Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 04:14 PM UTC

PDB ID	:	4V5O / pdb_00004v5o
Title	:	CRYSTAL STRUCTURE OF THE EUKARYOTIC 40S RIBOSOMAL SUBUNIT IN COMPLEX WITH INITIATION FACTOR 1.
Authors	:	Rabl, J.; Leibundgut, M.; Ataide, S.F.; Haag, A.; Ban, N.
Deposited on	:	2010-11-26
Resolution	:	3.93 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:

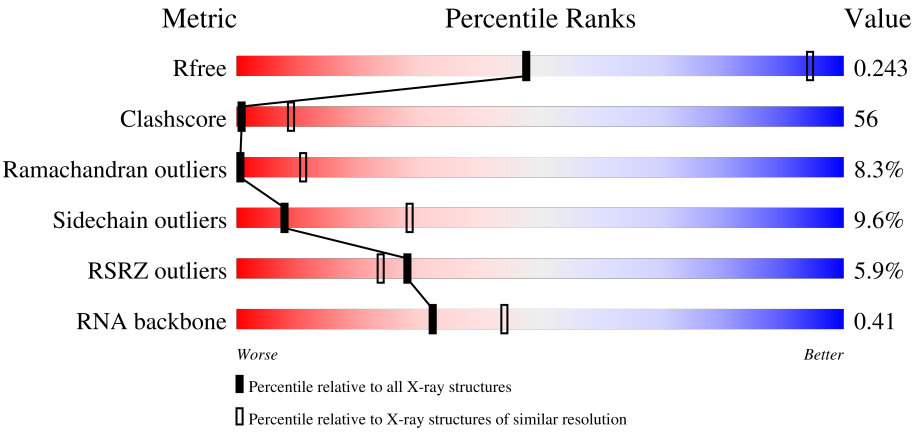
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
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 3.93 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	1022 (4.12-3.76)
Clashscore	190562	1000 (4.10-3.78)
Ramachandran outliers	187476	1009 (4.12-3.76)
Sidechain outliers	187428	1002 (4.12-3.76)
RSRZ outliers	180081	1022 (4.12-3.76)
RNA backbone	3983	1015 (4.76-3.10)

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	A1	68	6% 28% 53% 18%
1	B1	68	3% 25% 59% 15%
2	A2	208	7% 20% 62% 17%
2	B2	208	5% 19% 62% 18%

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Mol	Chain	Length	Quality of chain
3	A3	197	4% 28% 57% 13%
3	B3	197	4% 29% 56% 13%
4	A4	265	20% 49% 11% 19%
4	B4	265	2% 22% 47% 11% 19%
5	A5	119	3% 22% 46% 13% 18%
5	B5	119	3% 24% 44% 13% 18%
6	A6	81	4% 28% 57% 14%
6	B6	81	2% 27% 57% 15%
7	A7	162	2% 18% 36% 9% 36%
7	B7	162	% 14% 40% 9% 36%
8	A8	143	% 20% 35% 8% 35%
8	B8	143	3% 18% 36% 8% 35%
9	A9	189	6% 9% 38% 5% 48%
9	B9	189	5% 10% 37% 5% 48%
10	AA	1753	10% 15% 54% 22% 8%
10	BA	1753	11% 15% 54% 22% 7%
11	AB	241	% 22% 53% 10% 15%
11	BB	241	% 20% 56% 10% 15%
12	AC	243	3% 26% 53% 14% 6%
12	BC	243	4% 26% 55% 13% 6%
13	AD	181	4% 27% 52% 18%
13	BD	181	3% 29% 52% 17%
14	AE	296	2% 19% 47% 11% 22%
14	BE	296	2% 18% 47% 12% 22%
15	AF	101	% 22% 51% 15% 12%

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Mol	Chain	Length	Quality of chain
15	BF	101	2% 23% 53% 12% 12%
16	AG	200	2% 22% 58% 14%
16	BG	200	6% 24% 56% 14%
17	AH	130	5% 20% 61% 15%
17	BH	130	5% 18% 65% 14%
18	AI	145	7% 19% 71% 8%
18	BI	145	10% 21% 67% 10%
19	AJ	120	6% 22% 54% 12% 12%
19	BJ	120	8% 23% 52% 12% 12%
20	AK	151	3% 19% 52% 22% 7%
20	BK	151	3% 19% 52% 22% 7%
21	AL	142	4% 24% 59% 15%
21	BL	142	6% 24% 60% 15%
22	AM	155	3% 19% 58% 21%
22	BM	155	8% 21% 55% 23%
23	AN	55	7% 18% 49% 24% 5%
23	BN	55	5% 16% 49% 27%
24	AO	153	3% 26% 57% 14%
24	BO	153	5% 25% 57% 14%
25	AP	149	2% 26% 59% 12%
25	BP	149	5% 26% 58% 13%
26	AQ	157	4% 24% 58% 16%
26	BQ	157	3% 22% 60% 17%
27	AR	343	2% 22% 59% 17%
27	BR	343	4% 25% 55% 17%

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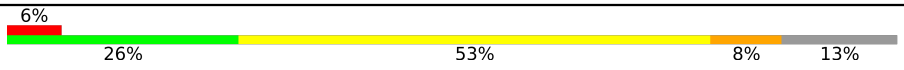
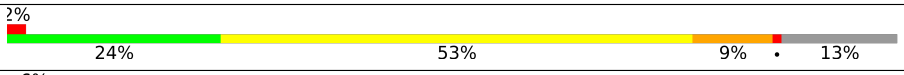
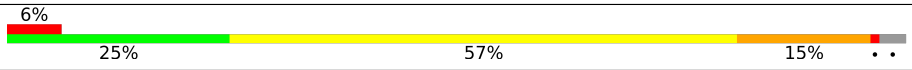
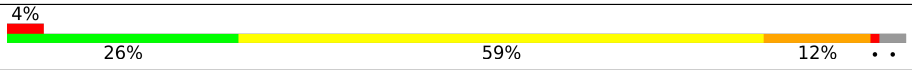
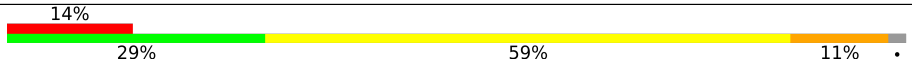
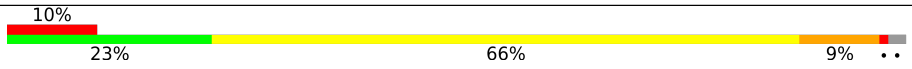
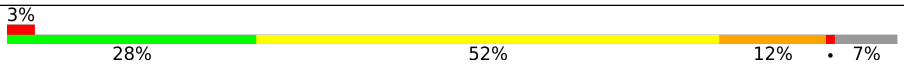
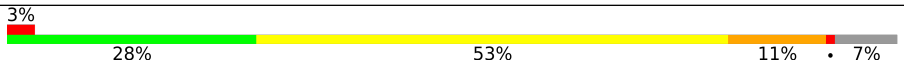
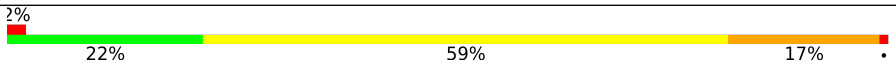
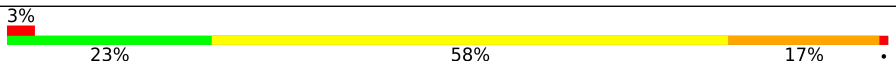
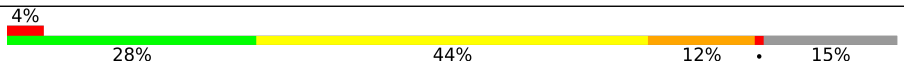
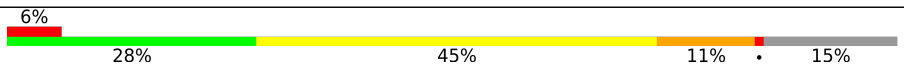
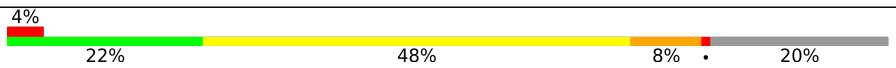
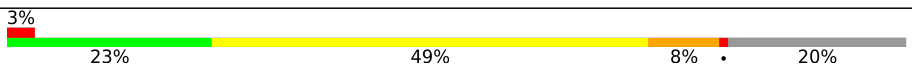
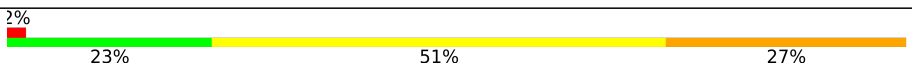
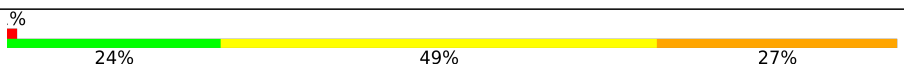
Mol	Chain	Length	Quality of chain
28	AS	144	
28	BS	144	
29	AT	155	
29	BT	155	
30	AU	126	
30	BU	126	
31	AV	130	
31	BV	130	
32	AW	260	
32	BW	260	
33	AX	80	
33	BX	80	
34	AY	293	
34	BY	293	
35	AZ	97	
35	BZ	97	

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
36	MG	BA	1855	-	-	-	X

2 Entry composition (i)

There are 38 unique types of molecules in this entry. The entry contains 157632 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 protein called RIBOSOMAL PROTEIN S28E CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A1	67	Total	C	N	O	S	0	0	0
			519	312	105	98	4			
1	B1	67	Total	C	N	O	S	0	0	0
			519	312	105	98	4			

- Molecule 2 is a protein called 40S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A2	207	Total	C	N	O	S	0	0	0
			1693	1057	336	296	4			
2	B2	207	Total	C	N	O	S	0	0	0
			1693	1057	336	296	4			

- Molecule 3 is a protein called RPS7E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A3	196	Total	C	N	O	S	0	0	0
			1629	1048	286	294	1			
3	B3	196	Total	C	N	O	S	0	0	0
			1629	1048	286	294	1			

- Molecule 4 is a protein called 40S RIBOSOMAL PROTEIN S3A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	A4	215	Total	C	N	O	S	0	0	0
			1724	1090	314	316	4			
4	B4	215	Total	C	N	O	S	0	0	0
			1724	1090	314	316	4			

- Molecule 5 is a protein called RIBOSOMAL PROTEIN S26E CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	A5	98	Total	C	N	O	S	0	0	0
			797	485	170	136	6			
5	B5	98	Total	C	N	O	S	0	0	0
			797	485	170	136	6			

- Molecule 6 is a protein called RPS27E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	A6	80	Total	C	N	O	S	0	0	0
			632	398	110	116	8			
6	B6	80	Total	C	N	O	S	0	0	0
			632	398	110	116	8			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B6	54	CYS	-	expression tag	UNP Q22CK0
B6	55	GLU	-	expression tag	UNP Q22CK0
B6	56	LYS	-	expression tag	UNP Q22CK0
B6	57	CYS	-	expression tag	UNP Q22CK0
B6	58	SER	-	expression tag	UNP Q22CK0
B6	59	ALA	-	expression tag	UNP Q22CK0
B6	60	ILE	-	expression tag	UNP Q22CK0
B6	61	LEU	-	expression tag	UNP Q22CK0
B6	62	CYS	-	expression tag	UNP Q22CK0
B6	63	LYS	-	expression tag	UNP Q22CK0
B6	64	PRO	-	expression tag	UNP Q22CK0
B6	65	THR	-	expression tag	UNP Q22CK0
B6	66	GLY	-	expression tag	UNP Q22CK0
B6	67	GLY	-	expression tag	UNP Q22CK0
B6	68	LYS	-	expression tag	UNP Q22CK0
B6	69	VAL	-	expression tag	UNP Q22CK0
B6	70	GLN	-	expression tag	UNP Q22CK0
B6	71	ILE	-	expression tag	UNP Q22CK0
B6	72	GLN	-	expression tag	UNP Q22CK0
B6	73	ALA	-	expression tag	UNP Q22CK0
B6	74	GLY	-	expression tag	UNP Q22CK0
B6	75	CYS	-	expression tag	UNP Q22CK0
B6	76	ALA	-	expression tag	UNP Q22CK0
B6	77	PHE	-	expression tag	UNP Q22CK0
B6	78	LYS	-	expression tag	UNP Q22CK0
B6	79	ILE	-	expression tag	UNP Q22CK0
B6	80	LYS	-	expression tag	UNP Q22CK0

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Chain	Residue	Modelled	Actual	Comment	Reference
B6	81	ASN	-	expression tag	UNP Q22CK0

- Molecule 7 is a protein called PLECTIN/S10 DOMAIN CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	A7	104	Total	C	N	O	S	0	0	0
			859	560	142	155	2			
7	B7	104	Total	C	N	O	S	0	0	0
			859	560	142	155	2			

- Molecule 8 is a protein called RPS25E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	A8	93	Total	C	N	O	S	0	0	0
			725	460	135	128	2			
8	B8	93	Total	C	N	O	S	0	0	0
			725	460	135	128	2			

- Molecule 9 is a protein called RPS31E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	A9	98	Total	C	N	O	S	0	0	0
			742	479	139	119	5			
9	B9	98	Total	C	N	O	S	0	0	0
			742	479	139	119	5			

- Molecule 10 is a RNA chain called 18S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AA	1745	Total	C	N	O	P	0	0	0
			37231	16654	6651	12181	1745			
10	BA	1745	Total	C	N	O	P	0	0	0
			37231	16654	6651	12181	1745			

- Molecule 11 is a protein called RPS0E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AB	204	Total	C	N	O	S	0	0	0
			1642	1039	288	304	11			
11	BB	204	Total	C	N	O	S	0	0	0
			1642	1039	288	304	11			

- Molecule 12 is a protein called KH DOMAIN CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AC	229	Total	C	N	O	S	0	0	0
			1820	1173	320	319	8			
12	BC	229	Total	C	N	O	S	0	0	0
			1820	1173	320	319	8			

- Molecule 13 is a protein called RIBOSOMAL PROTEIN S4 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AD	179	Total	C	N	O	S	0	0	0
			1475	931	286	252	6			
13	BD	179	Total	C	N	O	S	0	0	0
			1475	931	286	252	6			

- Molecule 14 is a protein called RIBOSOMAL PROTEIN S5 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AE	230	Total	C	N	O	S	0	0	0
			1827	1176	323	325	3			
14	BE	230	Total	C	N	O	S	0	0	0
			1827	1176	323	325	3			

- Molecule 15 is a protein called EIF1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AF	89	Total	C	N	O	S	0	0	0
			736	465	131	137	3			
15	BF	89	Total	C	N	O	S	0	0	0
			736	465	131	137	3			

- Molecule 16 is a protein called RIBOSOMAL PROTEIN S7 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AG	192	Total	C	N	O	S	0	0	0
			1520	961	281	270	8			
16	BG	192	Total	C	N	O	S	0	0	0
			1520	961	281	270	8			

- Molecule 17 is a protein called RIBOSOMAL PROTEIN S8 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AH	129	Total	C	N	O	S	0	0	0
			1040	671	184	180	5			
17	BH	129	Total	C	N	O	S	0	0	0
			1040	671	184	180	5			

- Molecule 18 is a protein called RPS16E, 40S RIBOSOMAL PROTEIN RPS16E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AI	143	Total	C	N	O	S	0	0	0
			1135	715	217	198	5			
18	BI	143	Total	C	N	O	S	0	0	0
			1135	715	217	198	5			

- Molecule 19 is a protein called RIBOSOMAL PROTEIN S10 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AJ	105	Total	C	N	O	S	0	0	0
			833	525	150	152	6			
19	BJ	105	Total	C	N	O	S	0	0	0
			833	525	150	152	6			

- Molecule 20 is a protein called RPS14E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AK	140	Total	C	N	O	S	0	0	0
			1063	654	206	197	6			
20	BK	140	Total	C	N	O	S	0	0	0
			1063	654	206	197	6			

- Molecule 21 is a protein called 40S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AL	141	Total	C	N	O	S	0	0	0
			1097	691	221	180	5			
21	BL	141	Total	C	N	O	S	0	0	0
			1097	691	221	180	5			

- Molecule 22 is a protein called RPS18E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AM	154	Total	C	N	O	S	0	0	0
			1239	780	237	216	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BM	154	Total	C	N	O	S	0	0	0
			1239	780	237	216	6			

- Molecule 23 is a protein called RPS29E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AN	53	Total	C	N	O	S	0	0	0
			447	278	91	72	6			
23	BN	53	Total	C	N	O	S	0	0	0
			447	278	91	72	6			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BN	54	TYR	-	expression tag	UNP Q22MB0
BN	55	ARG	-	expression tag	UNP Q22MB0

- Molecule 24 is a protein called RPS13E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AO	150	Total	C	N	O	S	0	0	0
			1214	782	228	200	4			
24	BO	150	Total	C	N	O	S	0	0	0
			1214	782	228	200	4			

- Molecule 25 is a protein called RPS24E.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	AP	148	Total	C	N	O	0	0	0
			1197	763	221	213			
25	BP	148	Total	C	N	O	0	0	0
			1197	763	221	213			

- Molecule 26 is a protein called RIBOSOMAL PROTEIN S17 CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	AQ	157	Total	C	N	O	S	0	0	0
			1275	818	235	217	5			
26	BQ	157	Total	C	N	O	S	0	0	0
			1275	818	235	217	5			

- Molecule 27 is a protein called RACK1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	AR	338	Total	C	N	O	S	0	0	0
			2682	1711	462	501	8			
27	BR	338	Total	C	N	O	S	0	0	0
			2682	1711	462	501	8			

- Molecule 28 is a protein called RPS15E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	AS	125	Total	C	N	O	S	0	0	0
			985	632	173	176	4			
28	BS	125	Total	C	N	O	S	0	0	0
			985	632	173	176	4			

- Molecule 29 is a protein called RPS19E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	AT	150	Total	C	N	O	S	0	0	0
			1211	769	227	213	2			
29	BT	150	Total	C	N	O	S	0	0	0
			1211	769	227	213	2			

- Molecule 30 is a protein called RIBOSOMAL PROTEIN L7AE CONTAINING PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	AU	124	Total	C	N	O	S	0	0	0
			952	599	166	182	5			
30	BU	124	Total	C	N	O	S	0	0	0
			952	599	166	182	5			

- Molecule 31 is a protein called RPS17E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AV	121	Total	C	N	O	S	0	0	0
			979	619	182	176	2			
31	BV	121	Total	C	N	O	S	0	0	0
			979	619	182	176	2			

- Molecule 32 is a protein called 40S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AW	259	Total	C	N	O	S	0	0	0
			2079	1322	383	370	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BW	259	Total	C	N	O	S	0	0	0
			2079	1322	383	370	4			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BW	1	MET	-	expression tag	UNP P0C233
BW	70	GLN	GLY	conflict	UNP P0C233
BW	236	SER	LEU	conflict	UNP P0C233
BW	237	TRP	TYR	conflict	UNP P0C233

- Molecule 33 is a protein called RPS30E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	AX	68	Total	C	N	O	S	0	0	0
			554	350	113	90	1			
33	BX	68	Total	C	N	O	S	0	0	0
			554	350	113	90	1			

- Molecule 34 is a protein called RPS6E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	AY	235	Total	C	N	O	S	0	0	0
			1868	1184	347	326	11			
34	BY	235	Total	C	N	O	S	0	0	0
			1868	1184	347	326	11			

- Molecule 35 is a protein called RPS21E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	AZ	97	Total	C	N	O	S	0	0	0
			747	458	139	146	4			
35	BZ	97	Total	C	N	O	S	0	0	0
			747	458	139	146	4			

- Molecule 36 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
36	A4	1	Total	Mg	0	0
			1	1		
36	AA	90	Total	Mg	0	0
			90	90		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
36	AL	1	Total Mg 1 1	0	0
36	B4	1	Total Mg 1 1	0	0
36	BA	89	Total Mg 89 89	0	0
36	BD	1	Total Mg 1 1	0	0
36	BW	1	Total Mg 1 1	0	0

- Molecule 37 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
37	A5	1	Total Zn 1 1	0	0
37	A6	1	Total Zn 1 1	0	0
37	A9	1	Total Zn 1 1	0	0
37	AN	1	Total Zn 1 1	0	0
37	B5	1	Total Zn 1 1	0	0
37	B6	1	Total Zn 1 1	0	0
37	B9	1	Total Zn 1 1	0	0
37	BN	1	Total Zn 1 1	0	0

- Molecule 38 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
38	A2	2	Total O 2 2	0	0
38	A4	2	Total O 2 2	0	0
38	A5	1	Total O 1 1	0	0
38	AA	516	Total O 516 516	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
38	AC	1	Total O 1 1	0	0
38	AD	4	Total O 4 4	0	0
38	AE	3	Total O 3 3	0	0
38	AL	3	Total O 3 3	0	0
38	AM	4	Total O 4 4	0	0
38	AO	1	Total O 1 1	0	0
38	AP	1	Total O 1 1	0	0
38	AQ	2	Total O 2 2	0	0
38	AT	4	Total O 4 4	0	0
38	AW	4	Total O 4 4	0	0
38	AY	4	Total O 4 4	0	0
38	B2	2	Total O 2 2	0	0
38	B4	2	Total O 2 2	0	0
38	B5	1	Total O 1 1	0	0
38	BA	512	Total O 512 512	0	0
38	BC	2	Total O 2 2	0	0
38	BD	2	Total O 2 2	0	0
38	BE	5	Total O 5 5	0	0
38	BK	1	Total O 1 1	0	0
38	BL	2	Total O 2 2	0	0
38	BM	6	Total O 6 6	0	0

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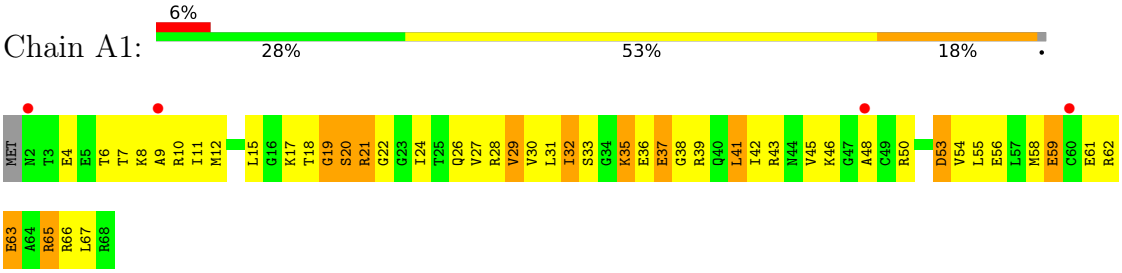
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
38	BO	1	Total O 1 1	0	0
38	BP	1	Total O 1 1	0	0
38	BQ	1	Total O 1 1	0	0
38	BT	6	Total O 6 6	0	0
38	BW	5	Total O 5 5	0	0
38	BY	3	Total O 3 3	0	0

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.

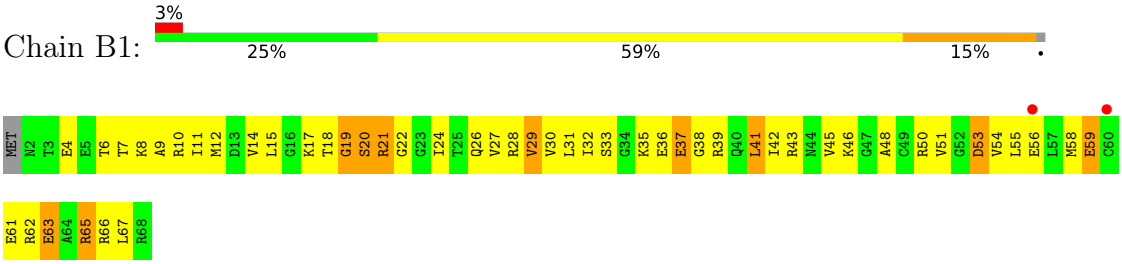
• Molecule 1: RIBOSOMAL PROTEIN S28E CONTAINING PROTEIN

Chain A1:



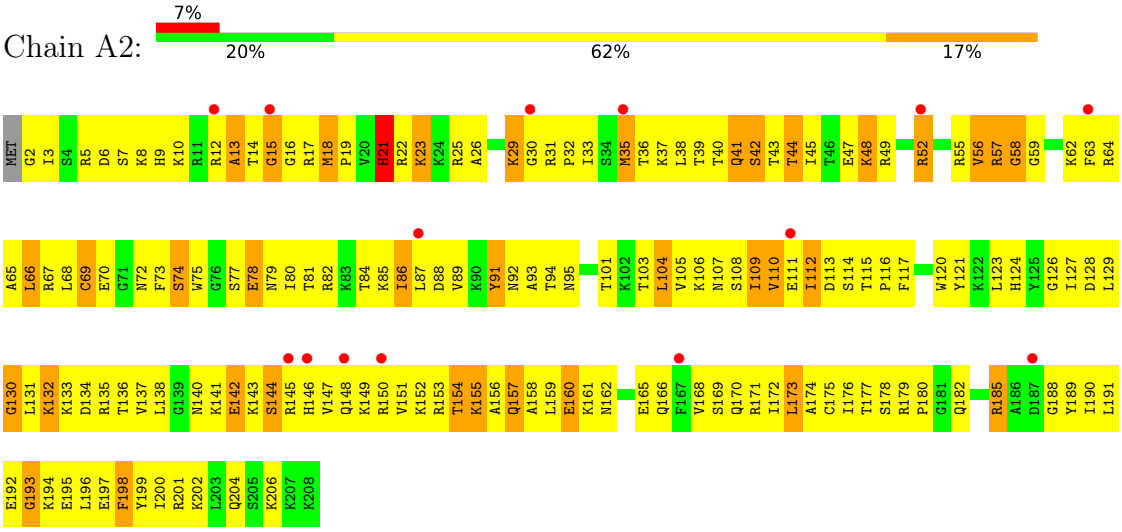
• Molecule 1: RIBOSOMAL PROTEIN S28E CONTAINING PROTEIN

Chain B1:



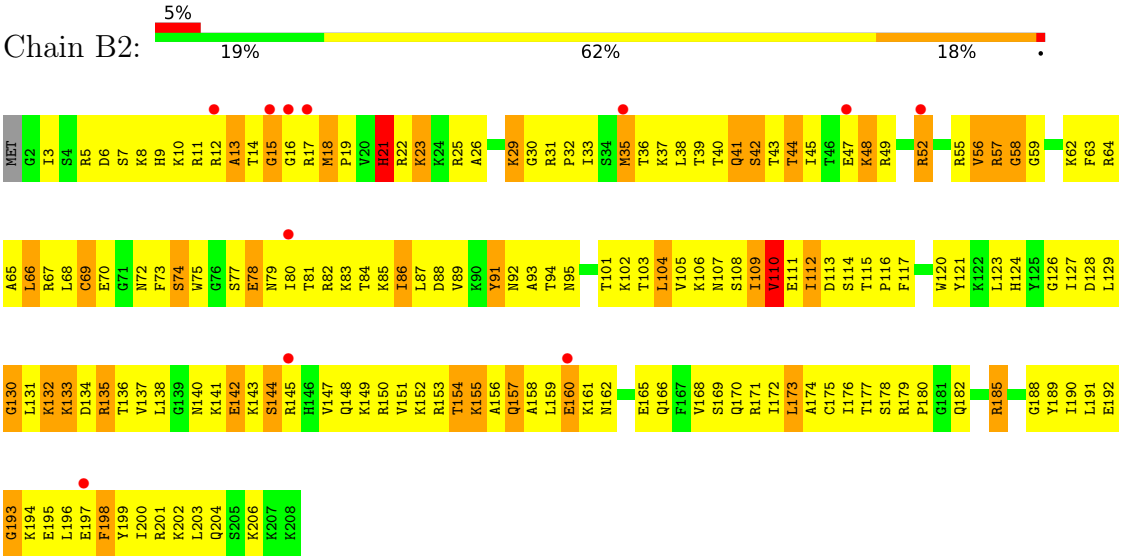
• Molecule 2: 40S RIBOSOMAL PROTEIN S8

Chain A2:



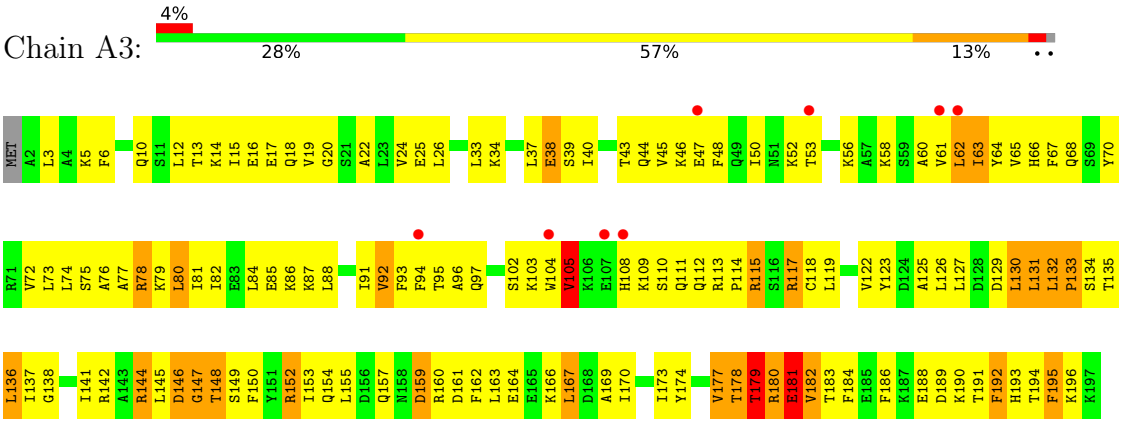
• Molecule 2: 40S RIBOSOMAL PROTEIN S8

Chain B2:



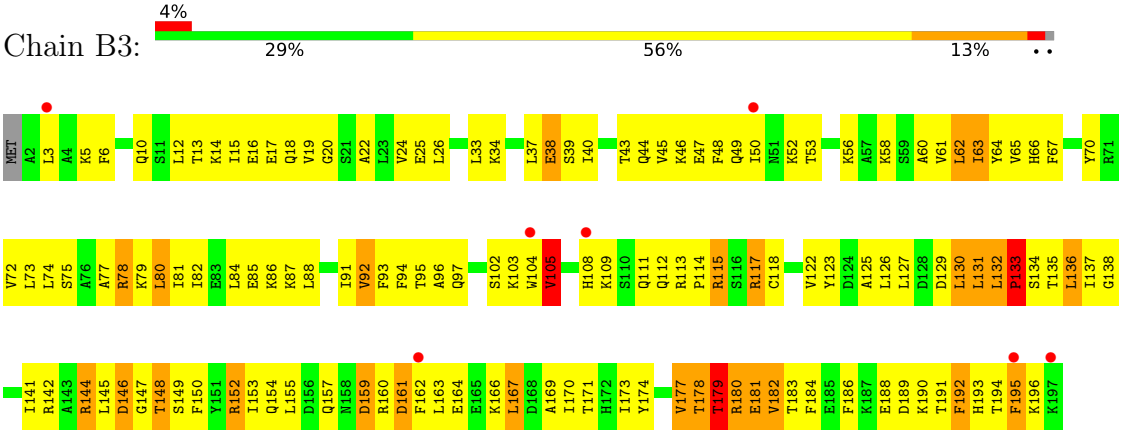
• Molecule 3: RPS7E

Chain A3:



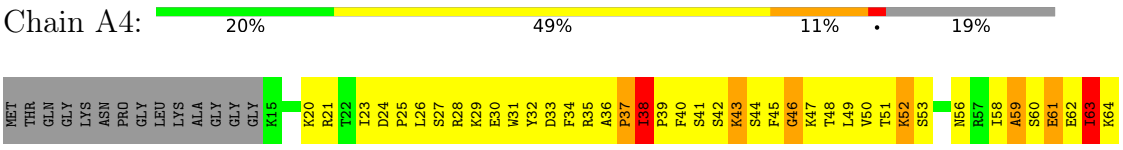
• Molecule 3: RPS7E

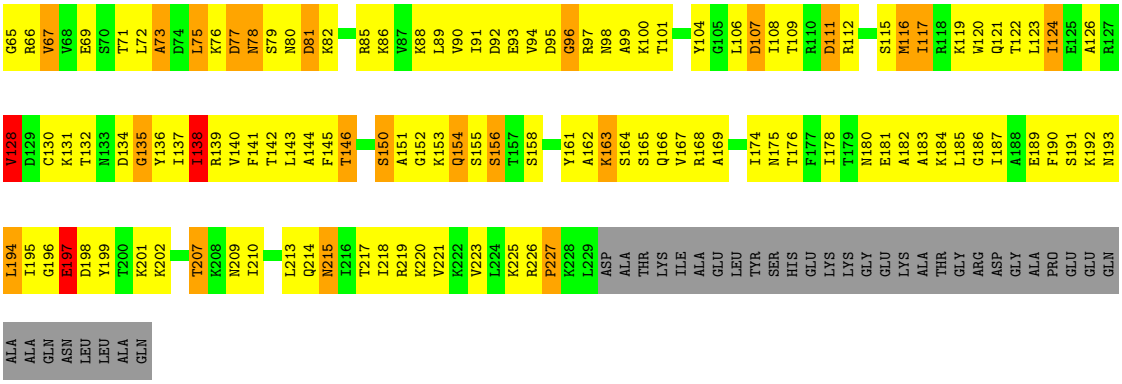
Chain B3:



• Molecule 4: 40S RIBOSOMAL PROTEIN S3A

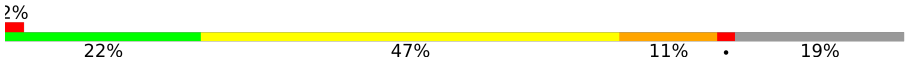
Chain A4:

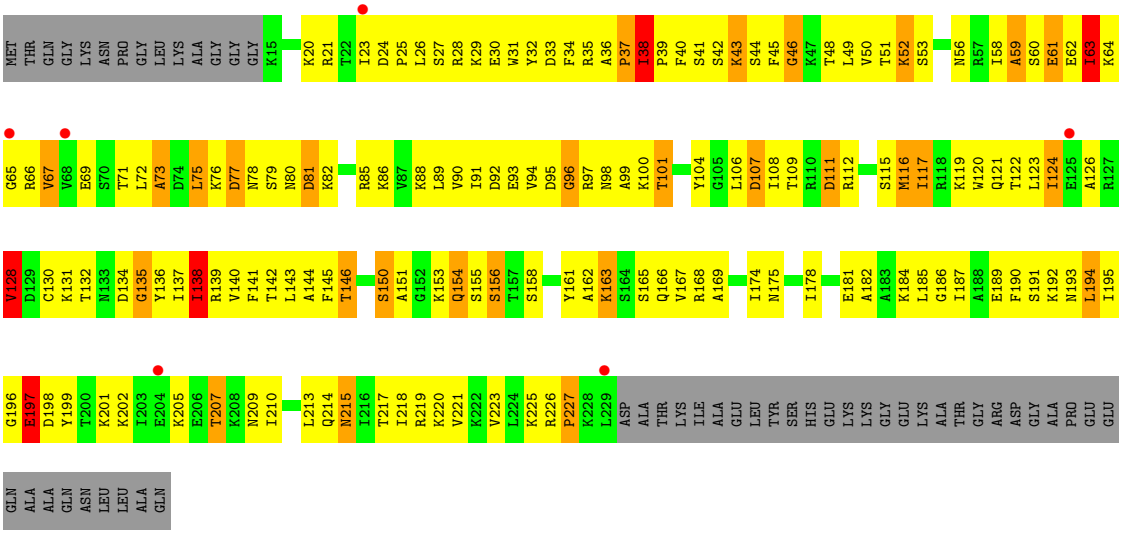




• Molecule 4: 40S RIBOSOMAL PROTEIN S3A

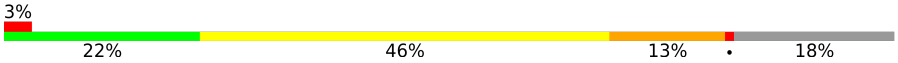
Chain B4:

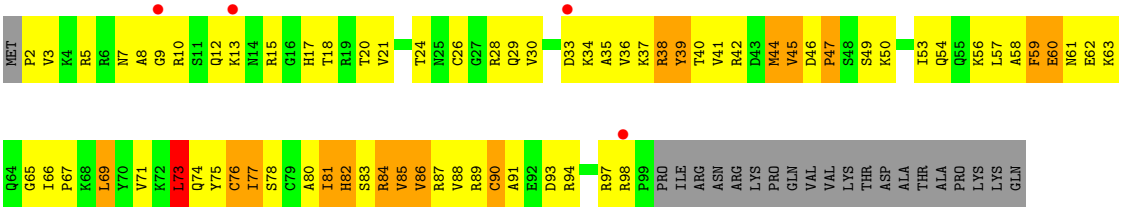




• Molecule 5: RIBOSOMAL PROTEIN S26E CONTAINING PROTEIN

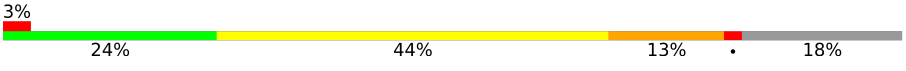
Chain A5:

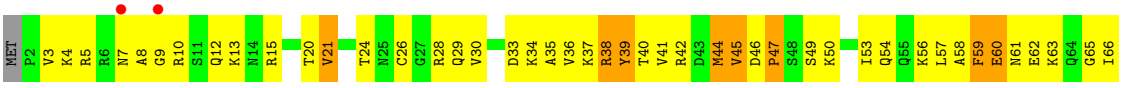


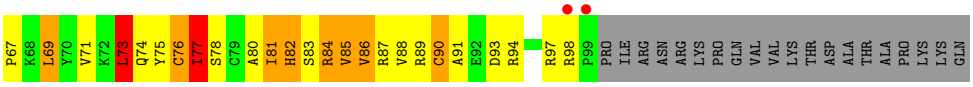


• Molecule 5: RIBOSOMAL PROTEIN S26E CONTAINING PROTEIN

Chain B5:

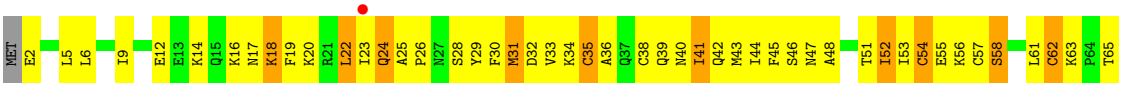


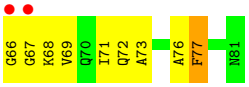




• Molecule 6: RPS27E

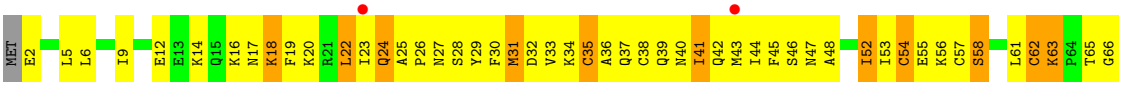
Chain A6:

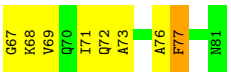




• Molecule 6: RPS27E

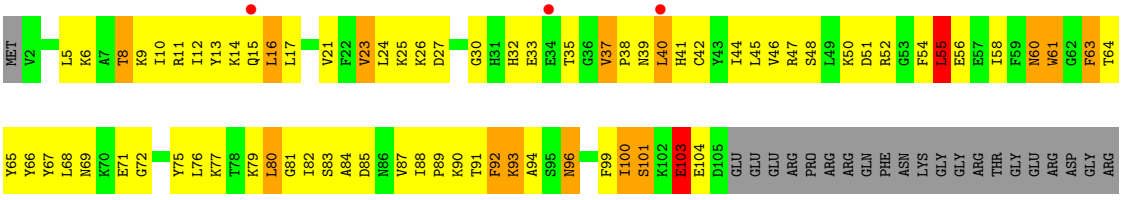
Chain B6:





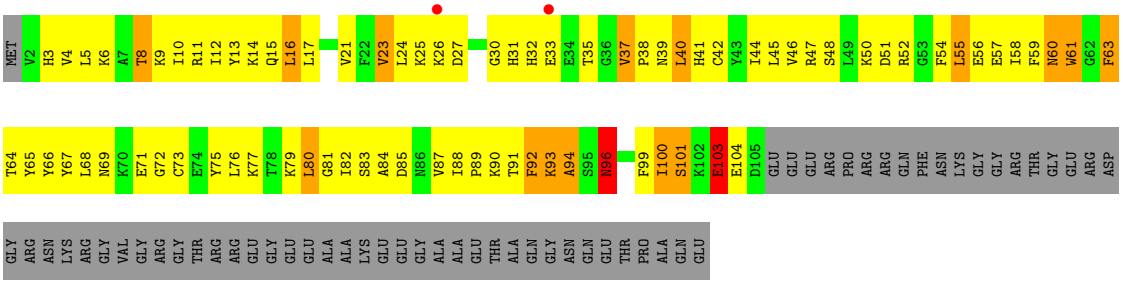
• Molecule 7: PLECTIN/S10 DOMAIN CONTAINING PROTEIN

Chain A7:



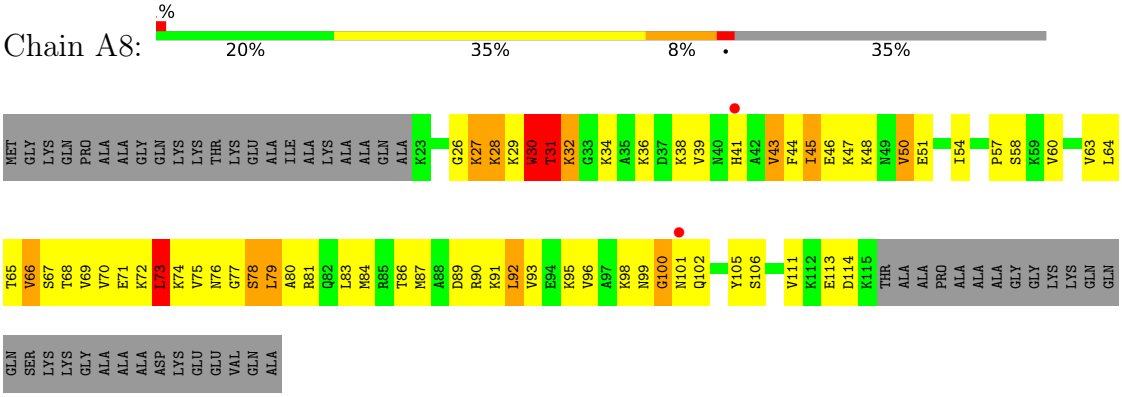
• Molecule 7: PLECTIN/S10 DOMAIN CONTAINING PROTEIN

Chain B7:



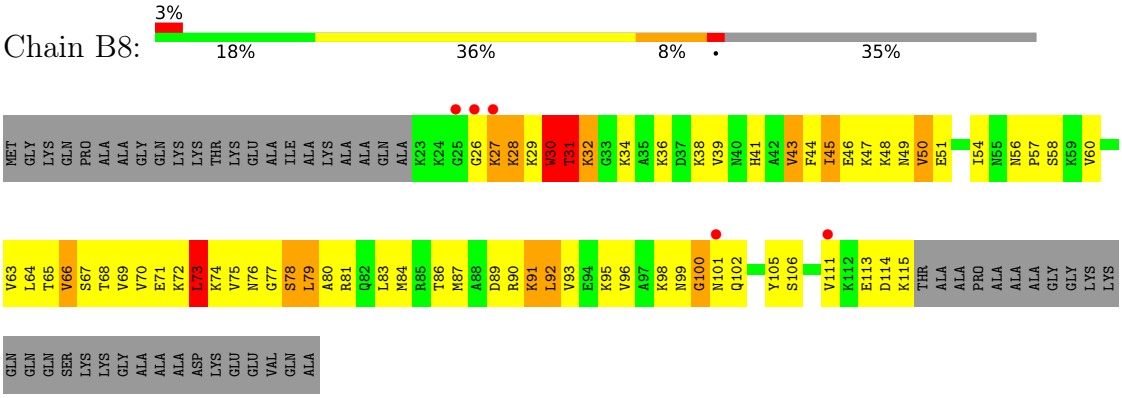
• Molecule 8: RPS25E

Chain A8:



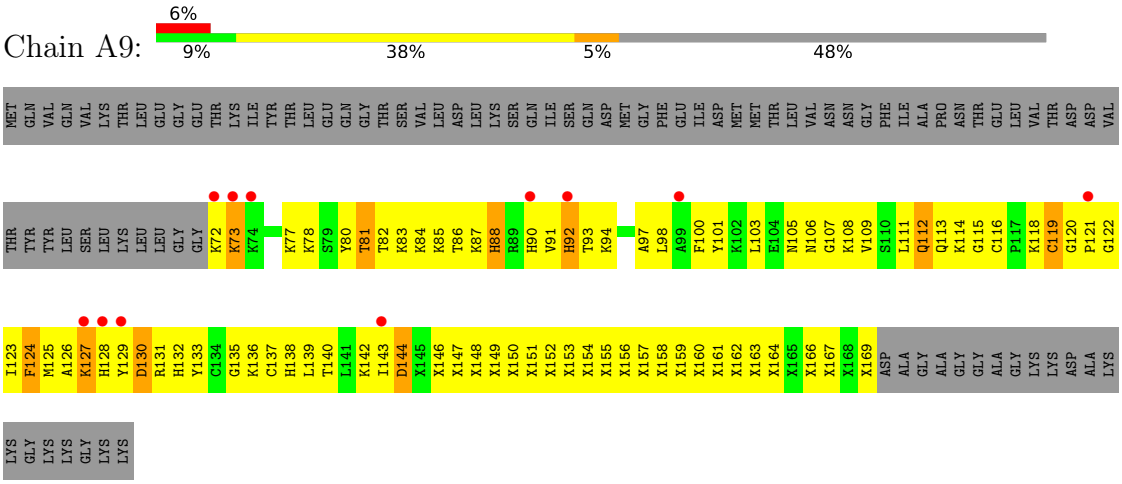
• Molecule 8: RPS25E

Chain B8:



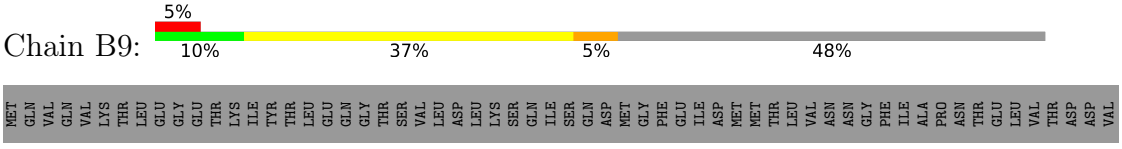
• Molecule 9: RPS31E

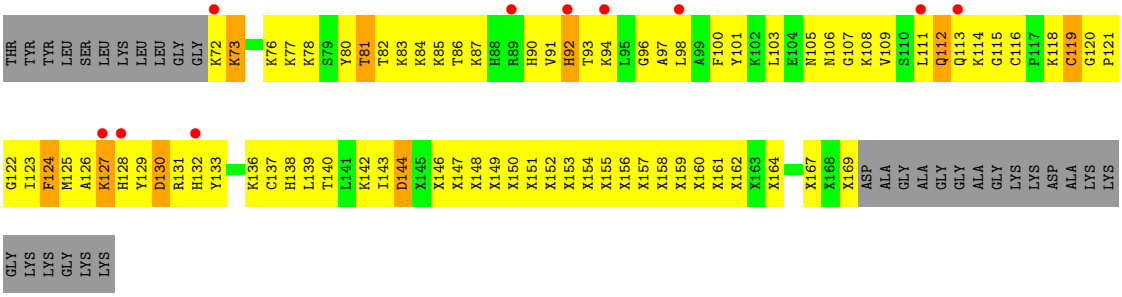
Chain A9:



• Molecule 9: RPS31E

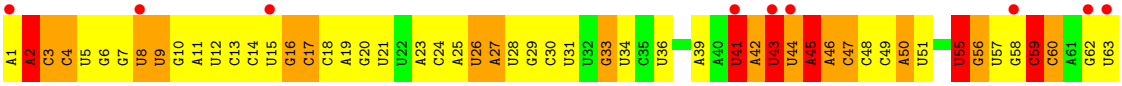
Chain B9:

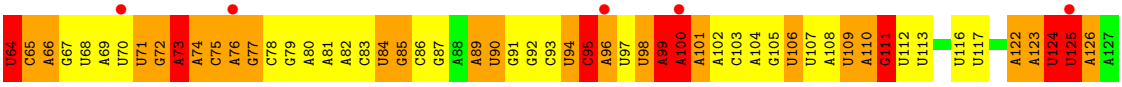


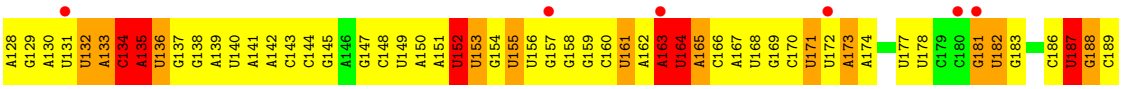


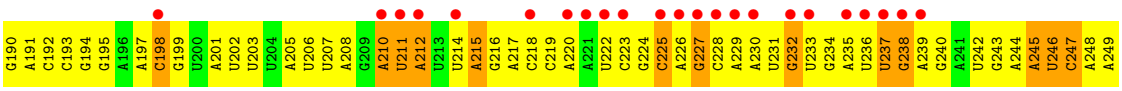
• Molecule 10: 18S RRNA

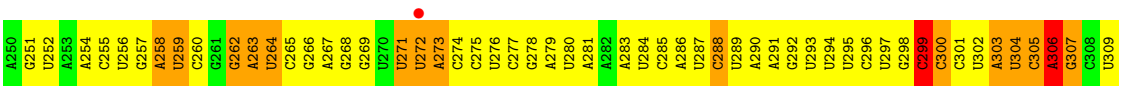
Chain AA:

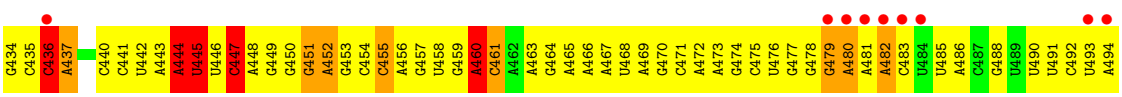


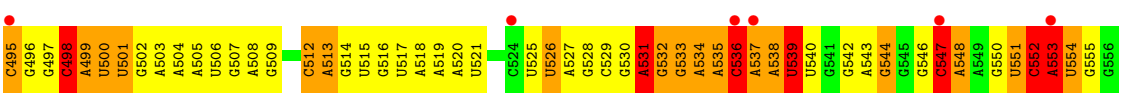


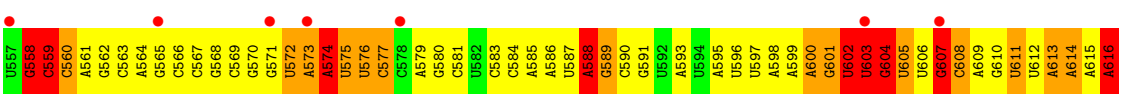


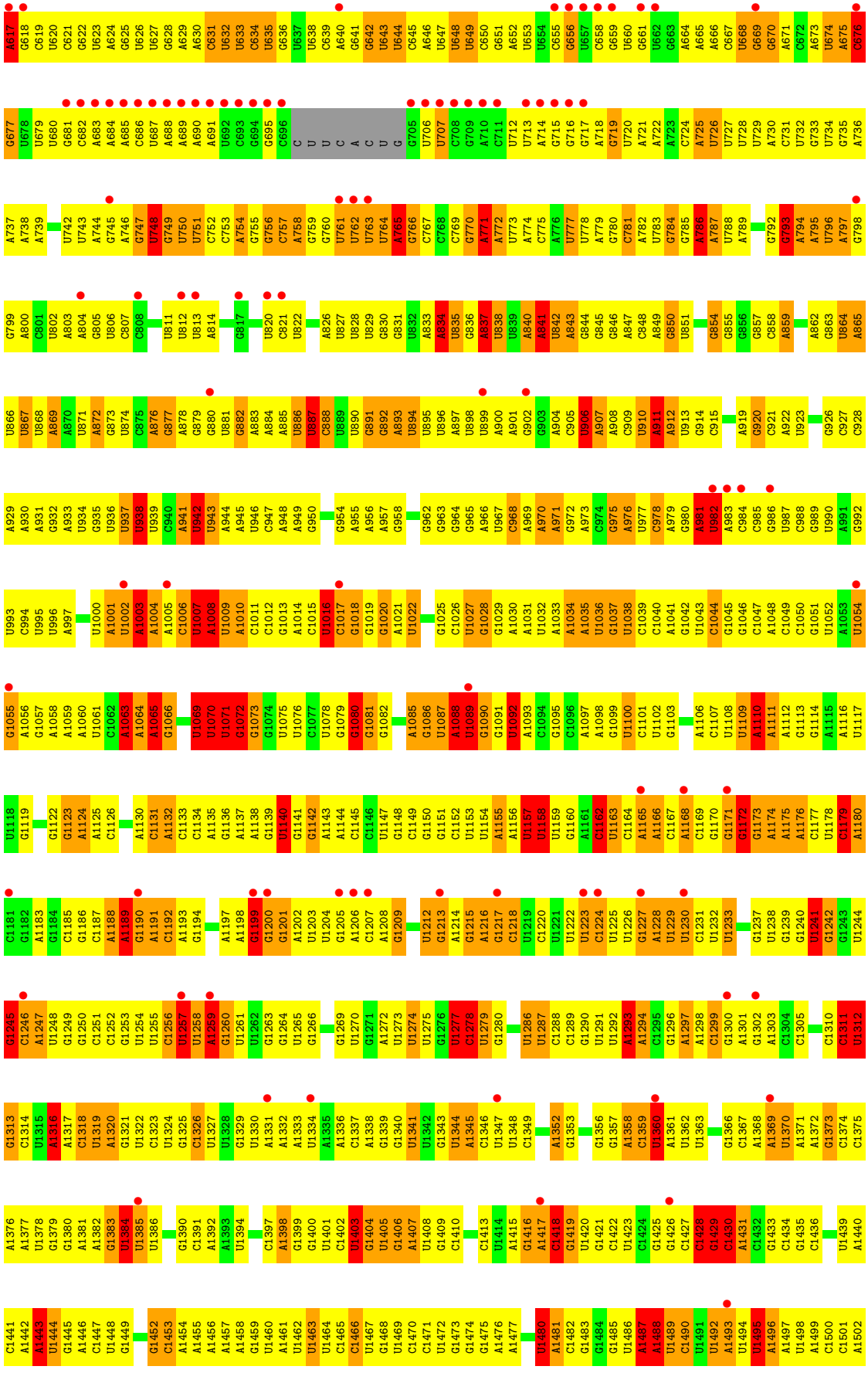


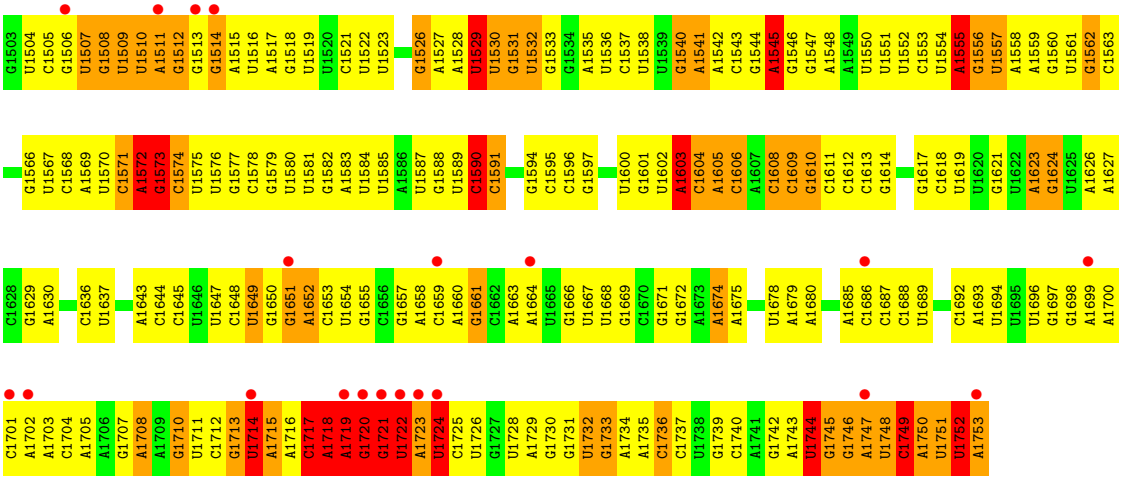






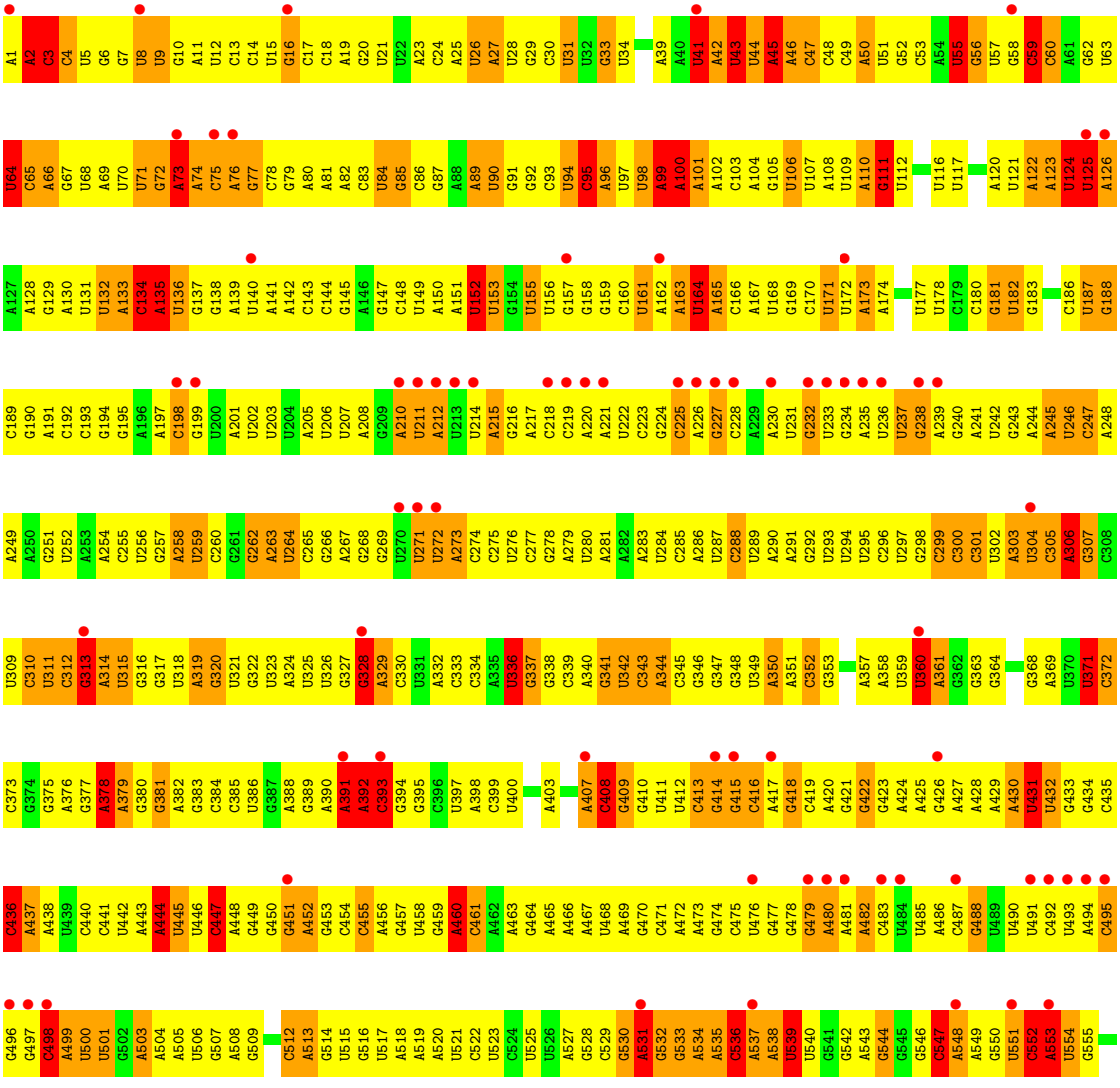


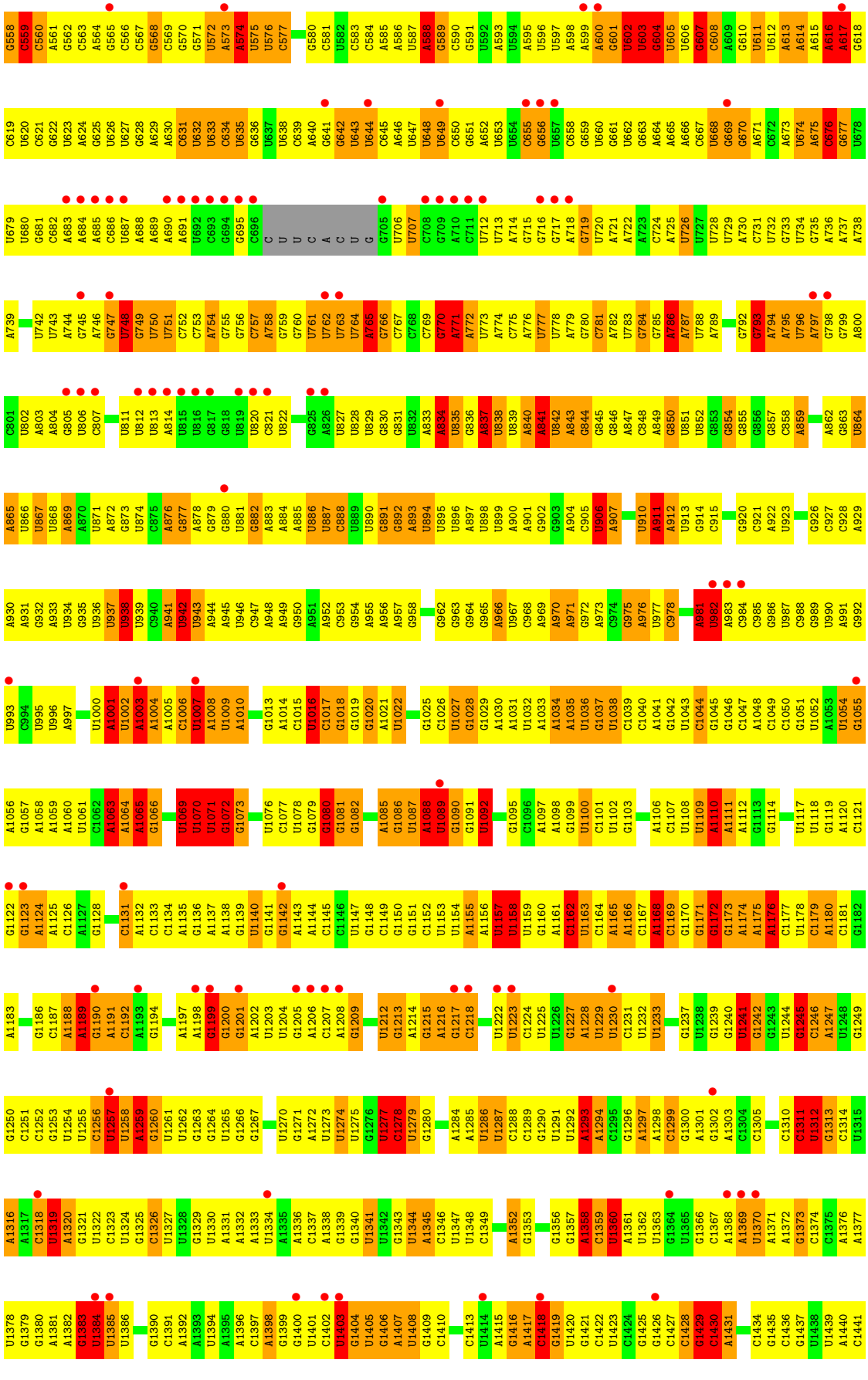


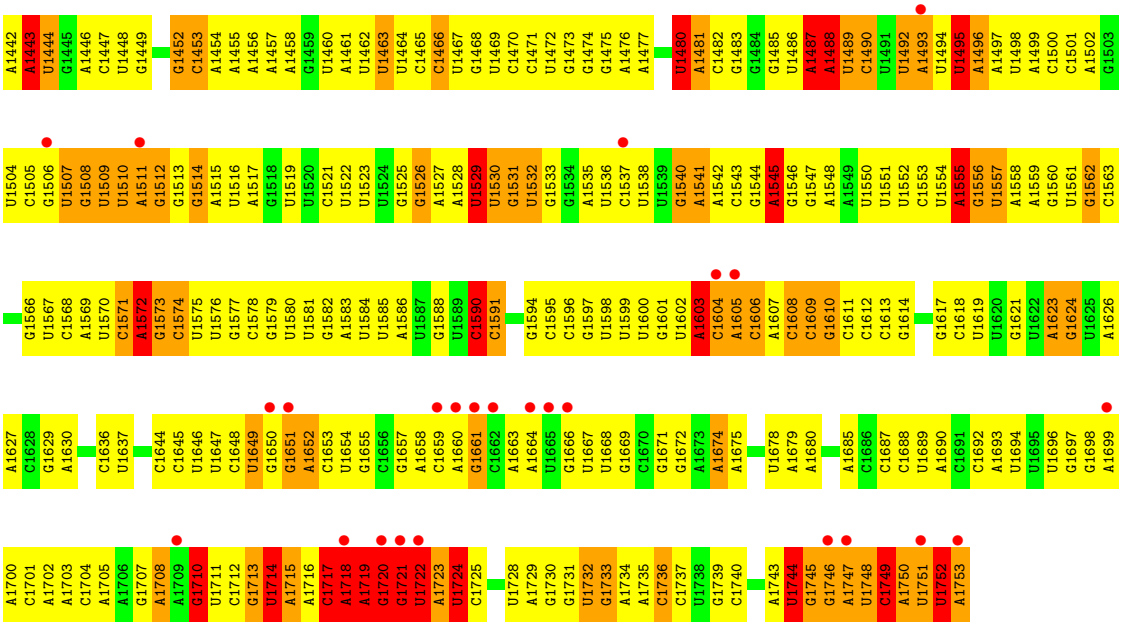


• Molecule 10: 18S RRNA

Chain BA:

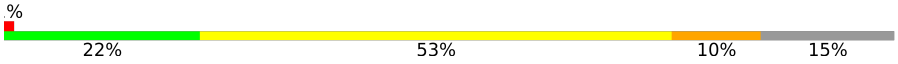


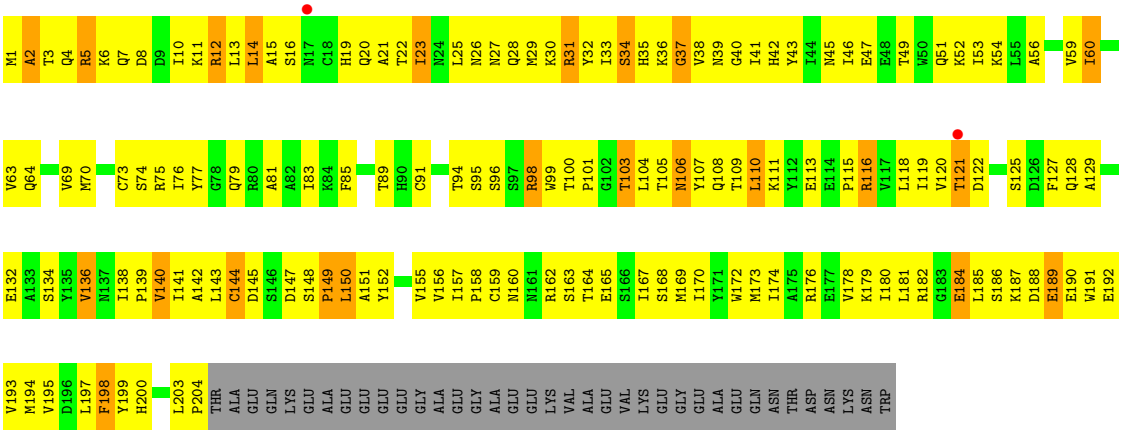




• Molecule 11: RPS0E

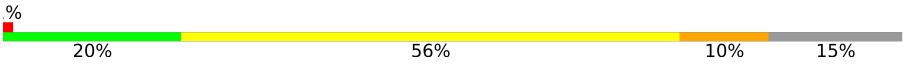
Chain AB:

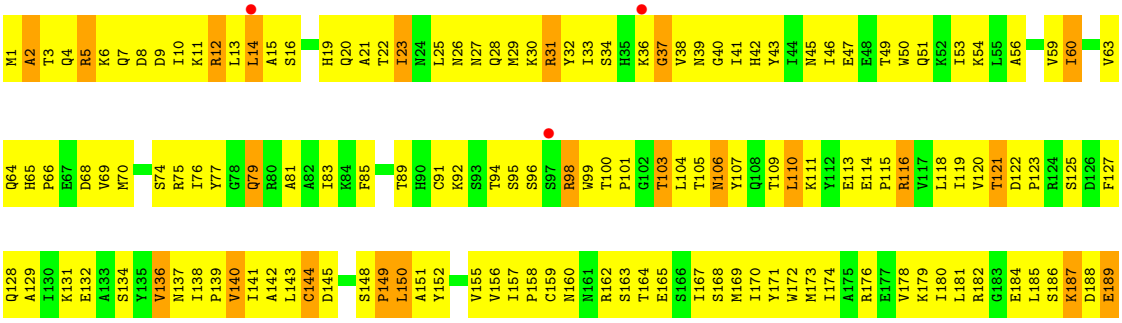


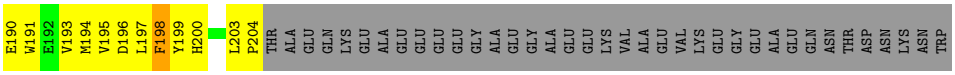


• Molecule 11: RPS0E

Chain BB:

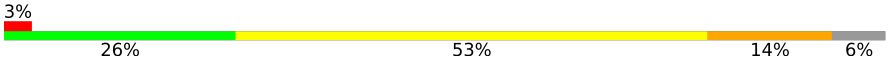


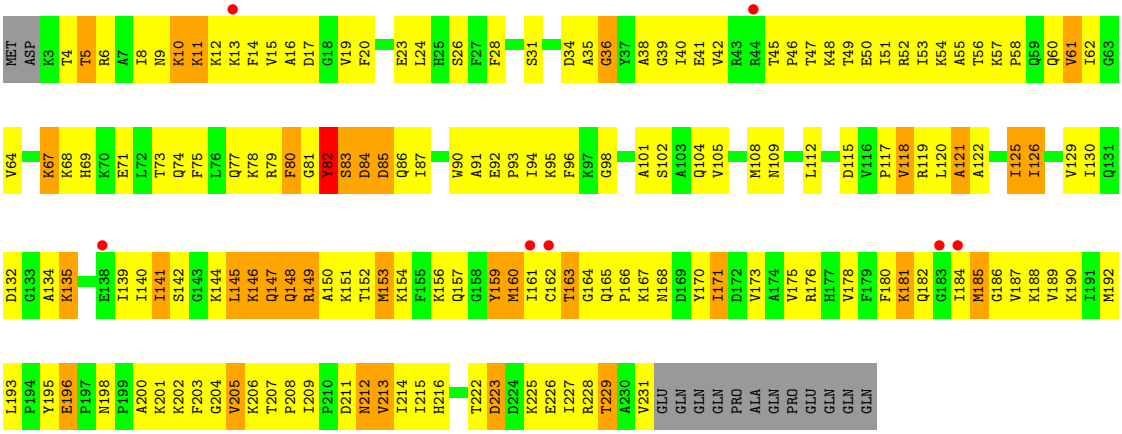




• Molecule 12: KH DOMAIN CONTAINING PROTEIN

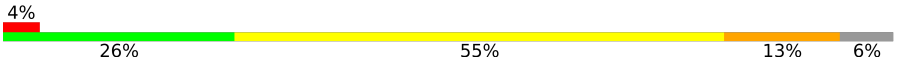
Chain AC:

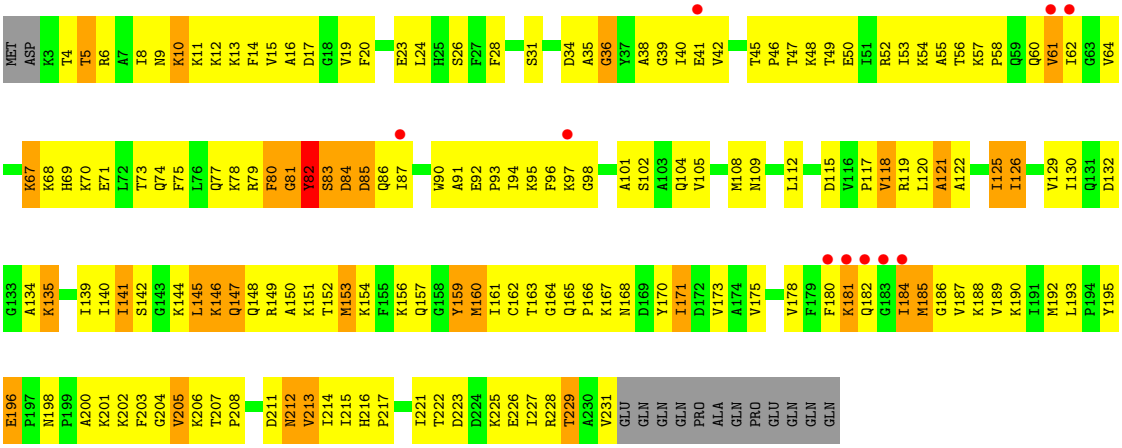




• Molecule 12: KH DOMAIN CONTAINING PROTEIN

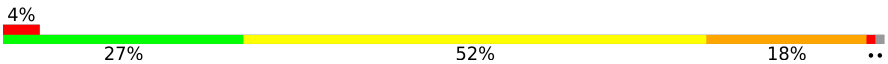
Chain BC:

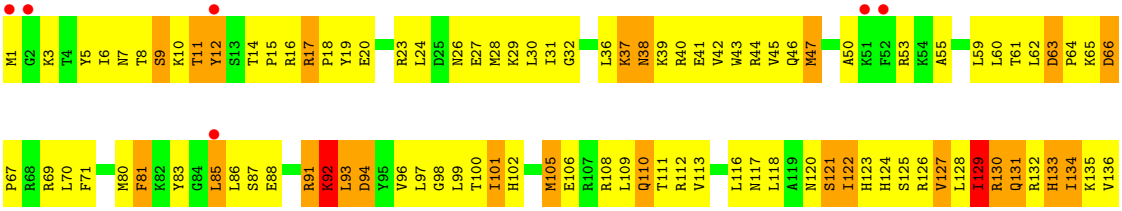


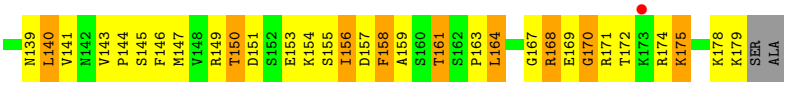


• Molecule 13: RIBOSOMAL PROTEIN S4 CONTAINING PROTEIN

Chain AD:

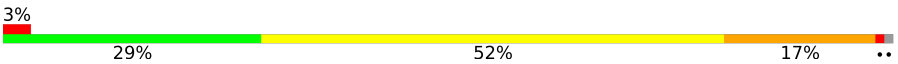


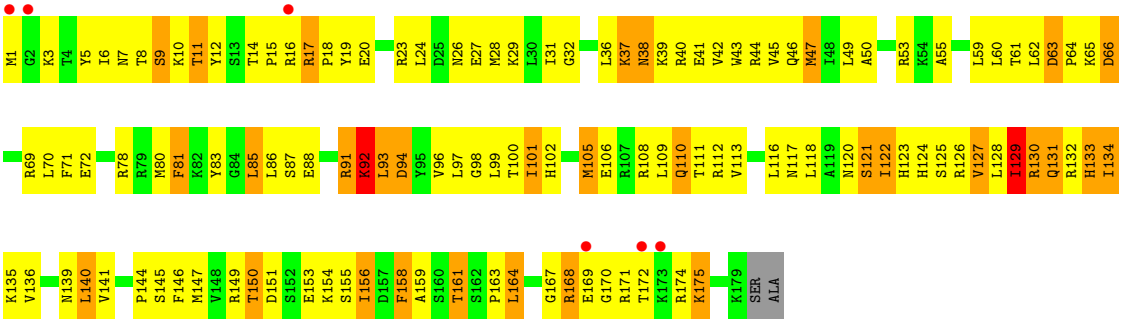




• Molecule 13: RIBOSOMAL PROTEIN S4 CONTAINING PROTEIN

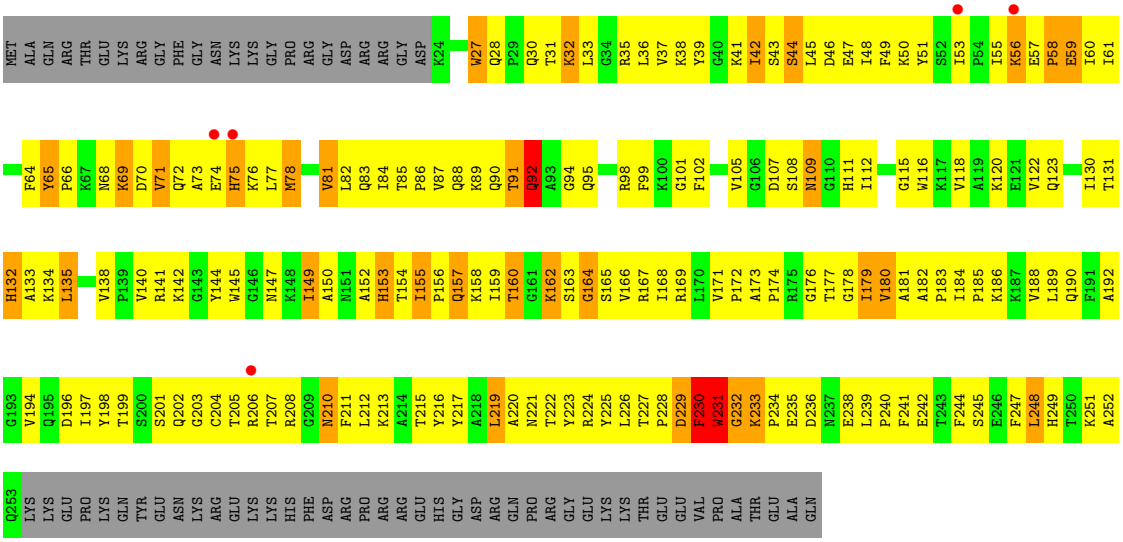
Chain BD:





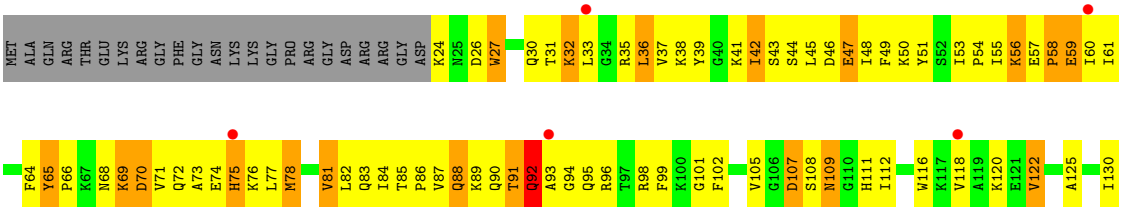
• Molecule 14: RIBOSOMAL PROTEIN S5 CONTAINING PROTEIN

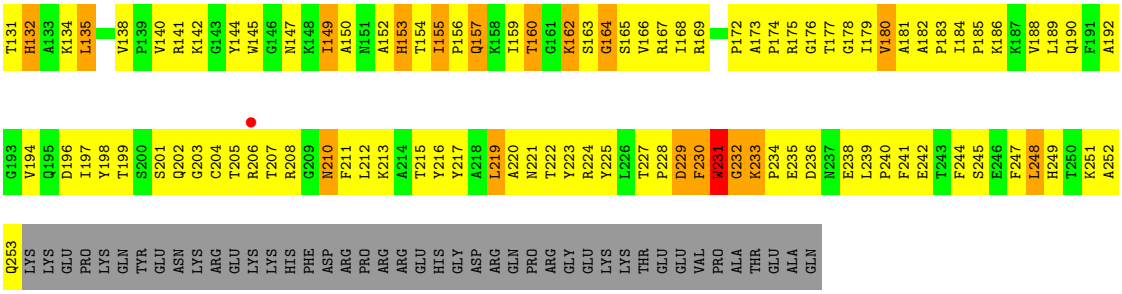
Chain AE:



• Molecule 14: RIBOSOMAL PROTEIN S5 CONTAINING PROTEIN

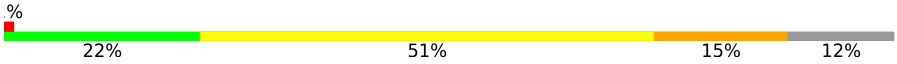
Chain BE:

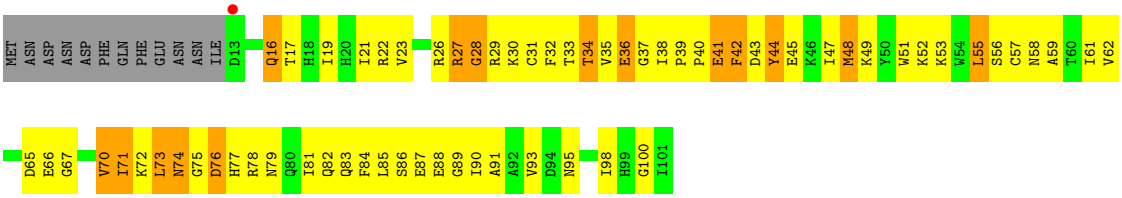




• Molecule 15: EIF1

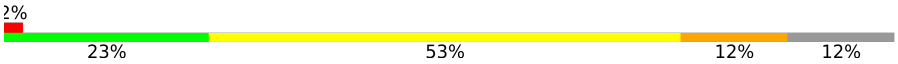
Chain AF:

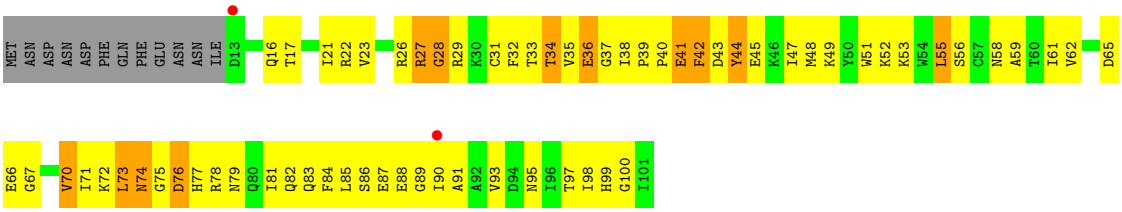




• Molecule 15: EIF1

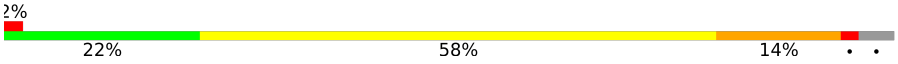
Chain BF:

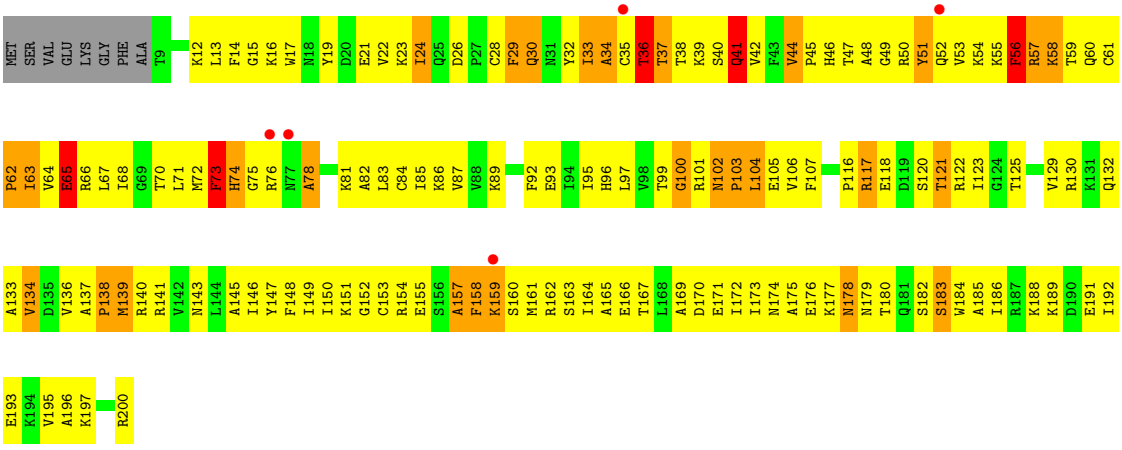




• Molecule 16: RIBOSOMAL PROTEIN S7 CONTAINING PROTEIN

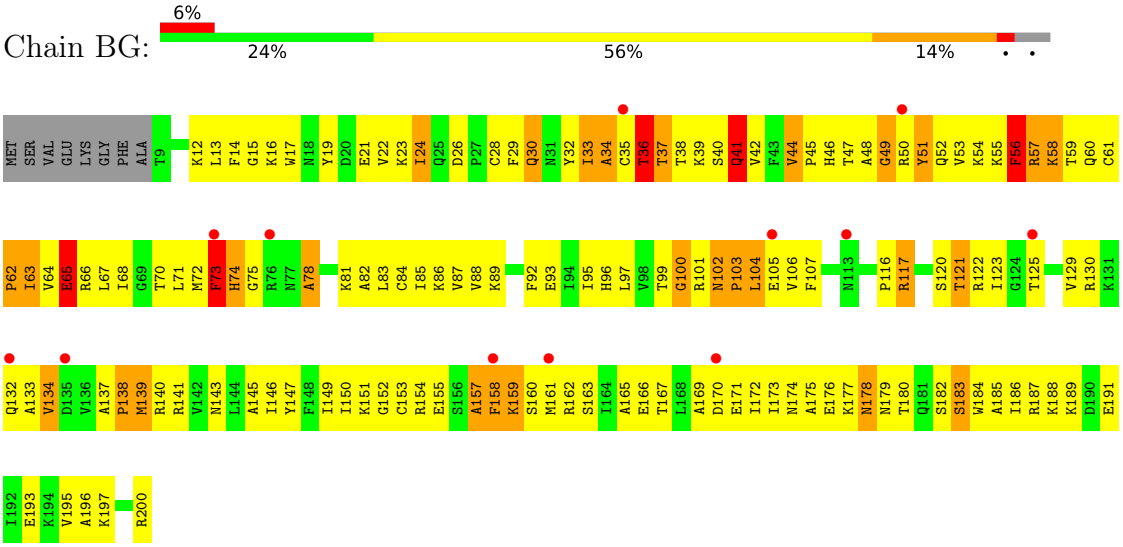
Chain AG:





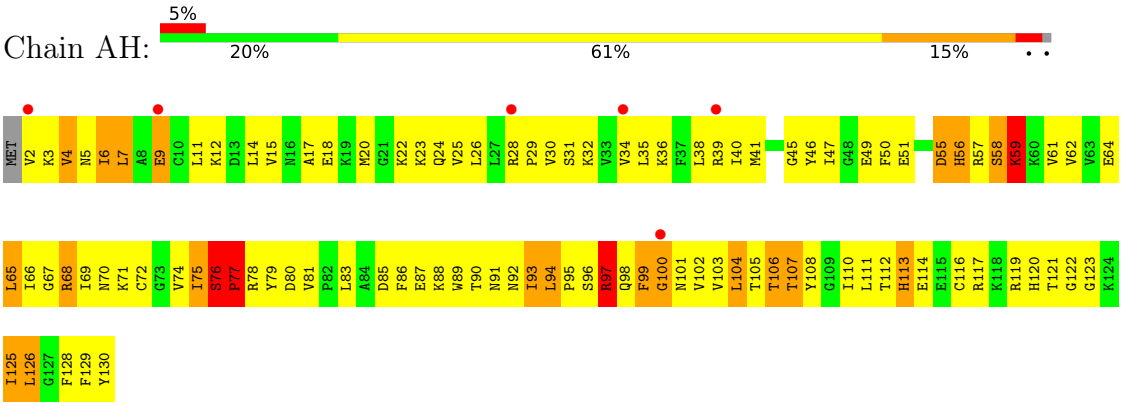
• Molecule 16: RIBOSOMAL PROTEIN S7 CONTAINING PROTEIN

Chain BG:



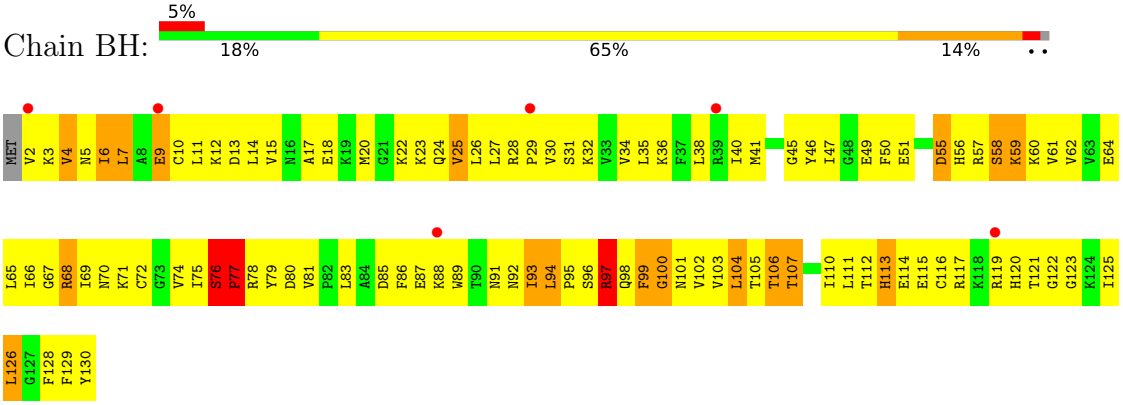
• Molecule 17: RIBOSOMAL PROTEIN S8 CONTAINING PROTEIN

Chain AH:



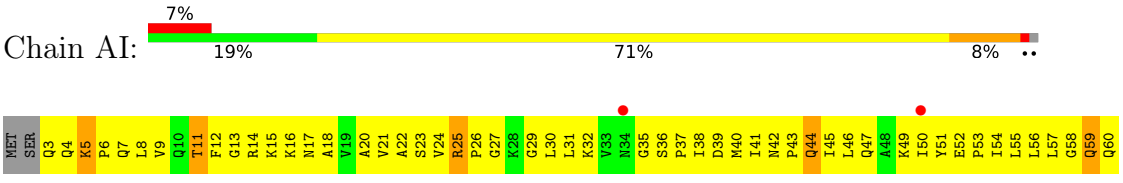
• Molecule 17: RIBOSOMAL PROTEIN S8 CONTAINING PROTEIN

Chain BH:

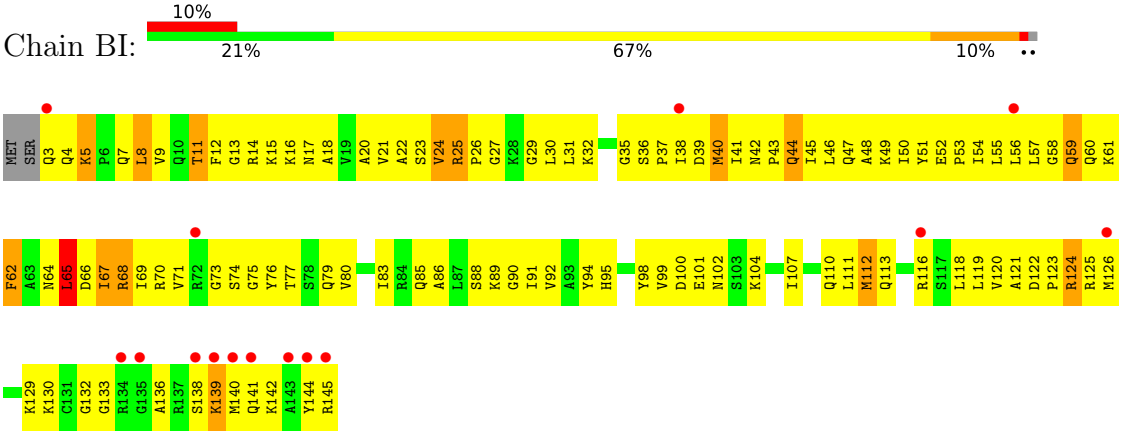


• Molecule 18: RPS16E, 40S RIBOSOMAL PROTEIN RPS16E

Chain AI:

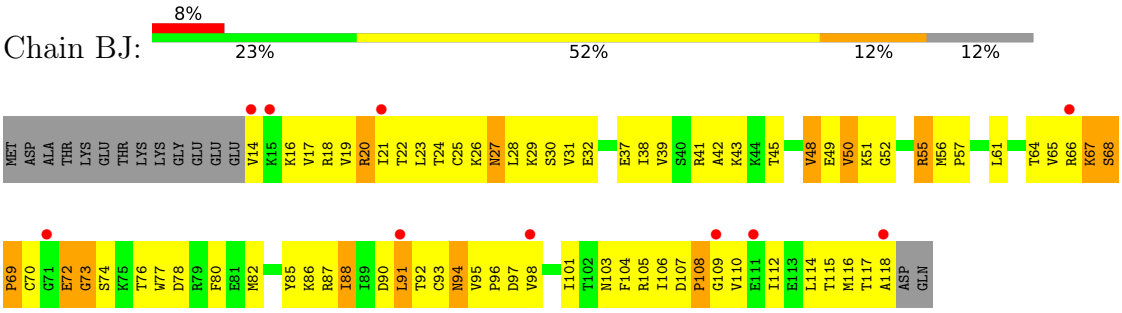


• Molecule 18: RPS16E, 40S RIBOSOMAL PROTEIN RPS16E

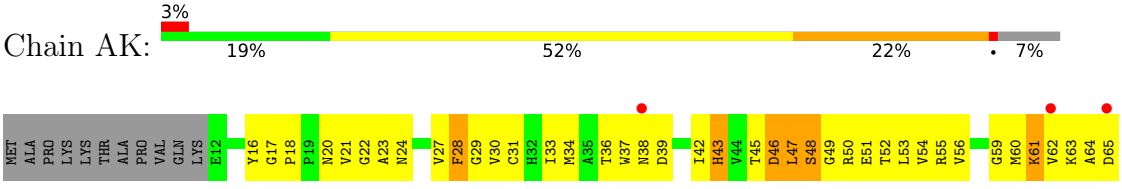


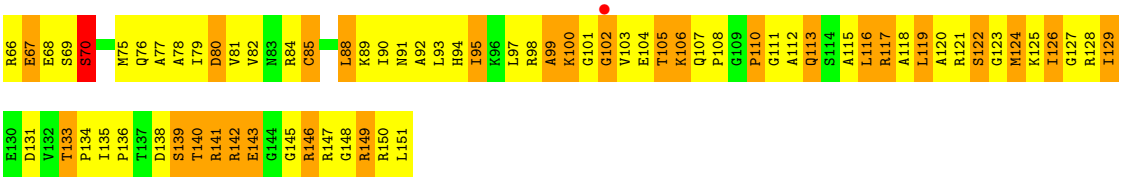
• Molecule 19: RIBOSOMAL PROTEIN S10 CONTAINING PROTEIN

• Molecule 19: RIBOSOMAL PROTEIN S10 CONTAINING PROTEIN

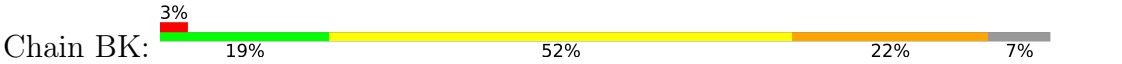


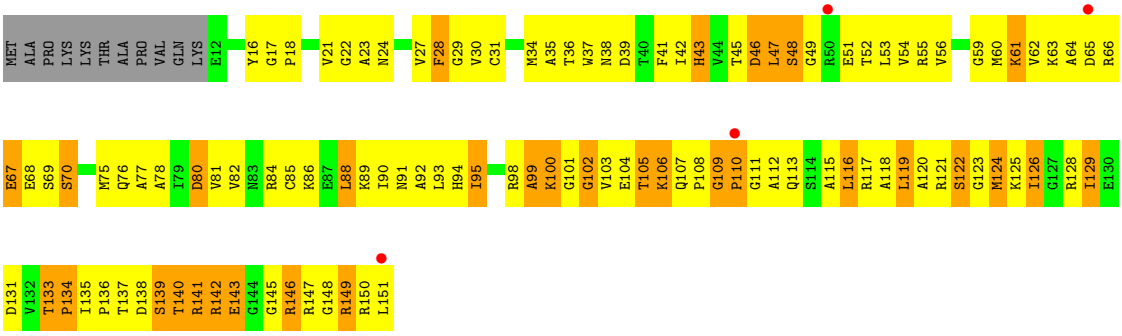
• Molecule 20: RPS14E





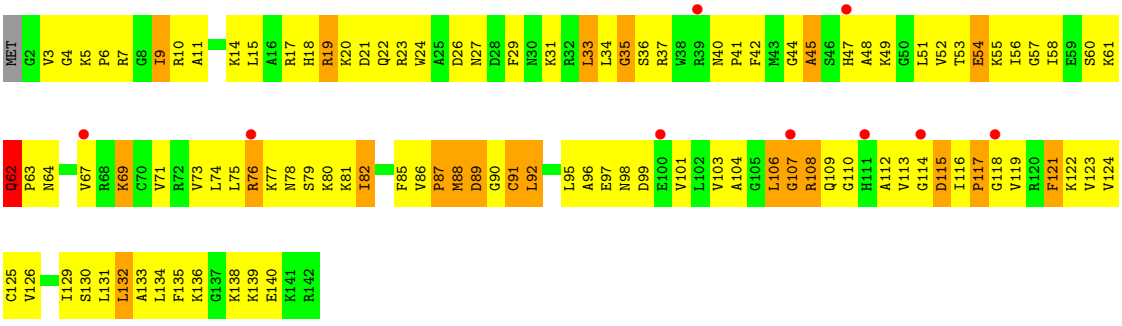
• Molecule 20: RPS14E



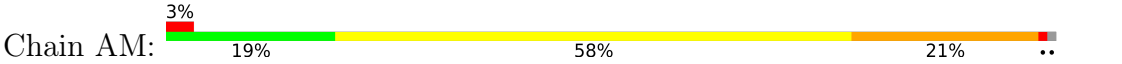


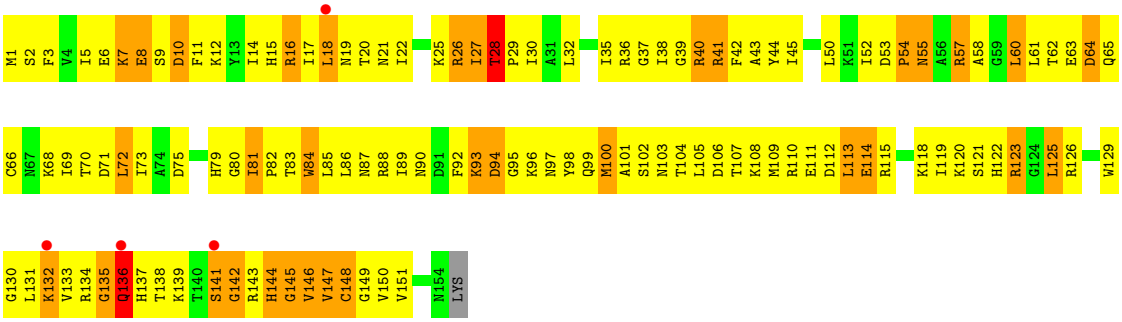
• Molecule 21: 40S RIBOSOMAL PROTEIN S12

• Molecule 21: 40S RIBOSOMAL PROTEIN S12

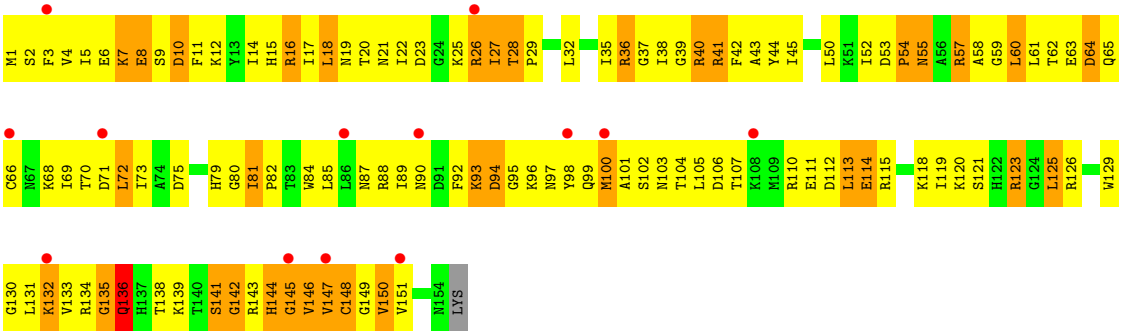


• Molecule 22: RPS18E

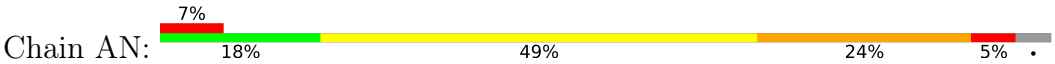


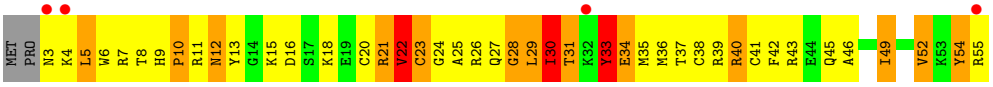


• Molecule 22: RPS18E

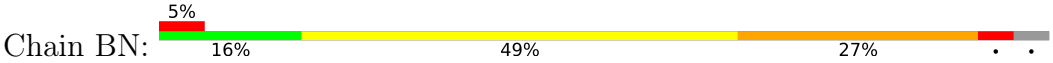


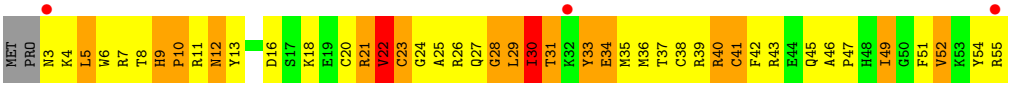
• Molecule 23: RPS29E



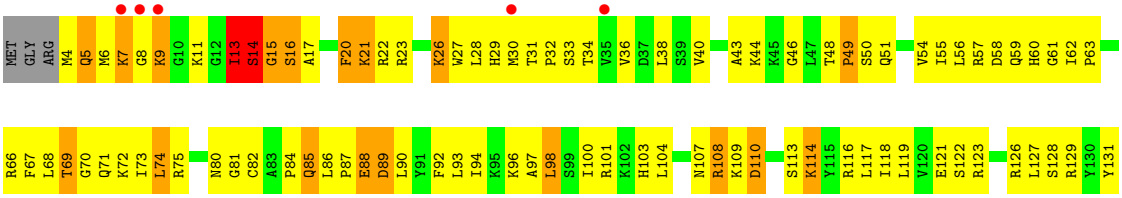


• Molecule 23: RPS29E



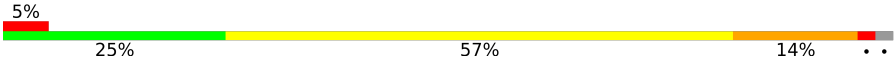


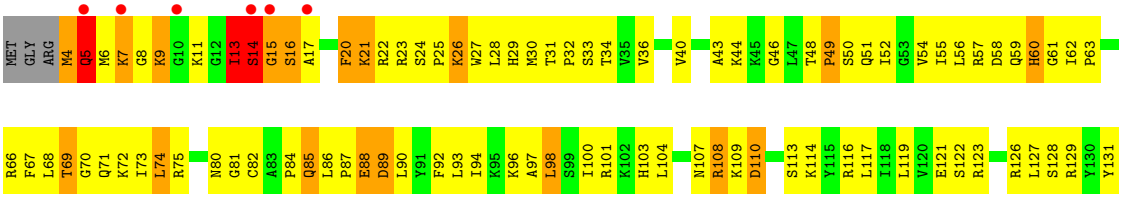
• Molecule 24: RPS13E



• Molecule 24: RPS13E

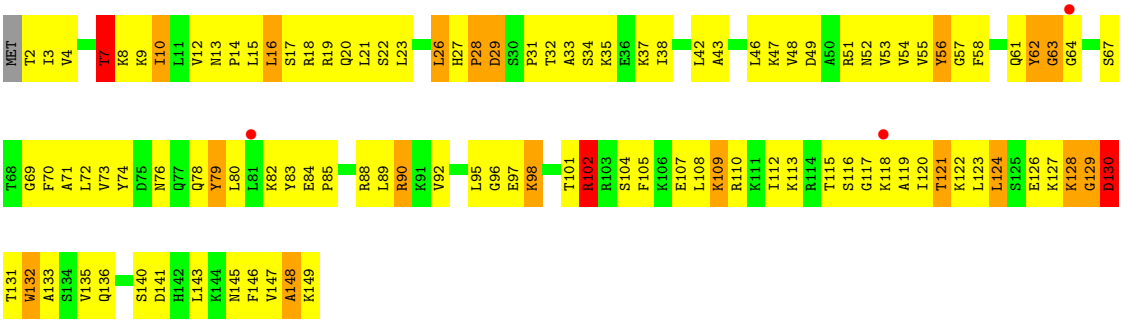
Chain BO:





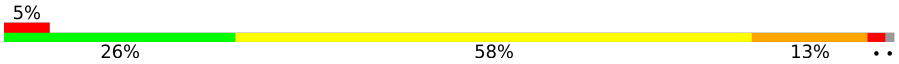
• Molecule 25: RPS24E

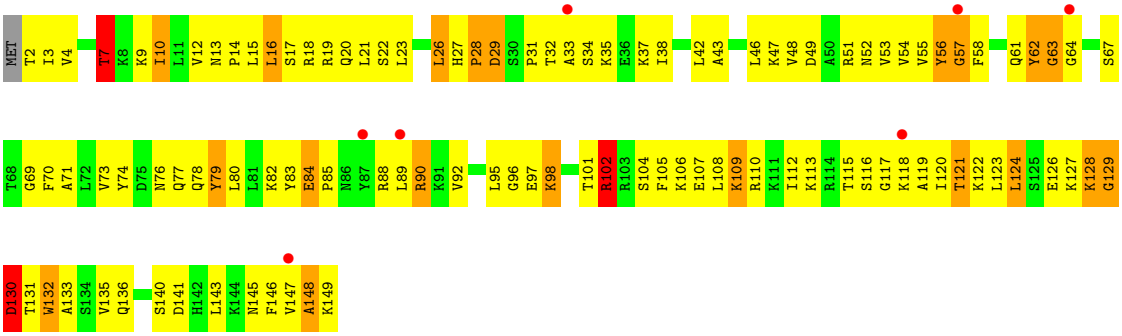
Chain AP:



• Molecule 25: RPS24E

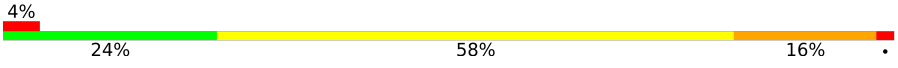
Chain BP:

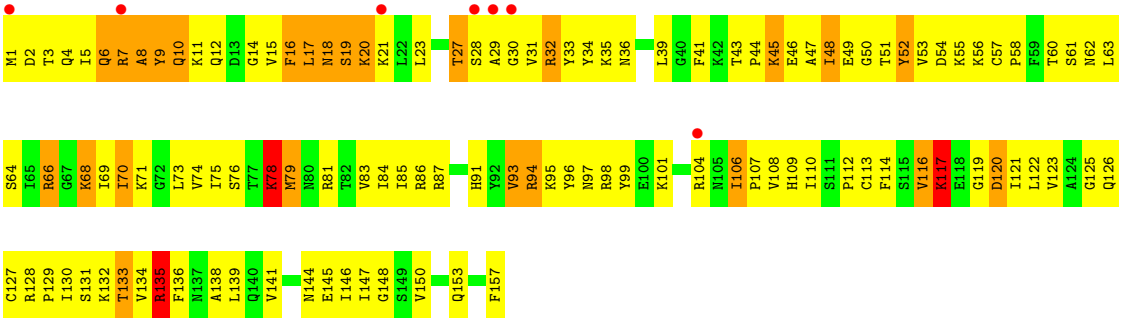




• Molecule 26: RIBOSOMAL PROTEIN S17 CONTAINING PROTEIN

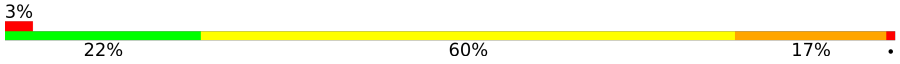
Chain AQ:

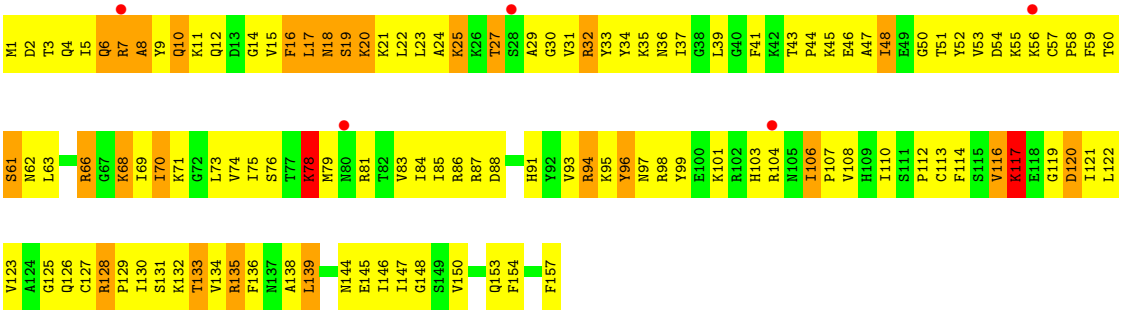




• Molecule 26: RIBOSOMAL PROTEIN S17 CONTAINING PROTEIN

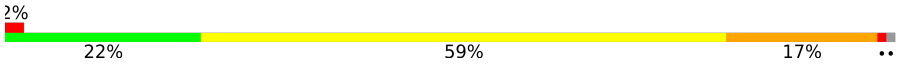
Chain BQ:

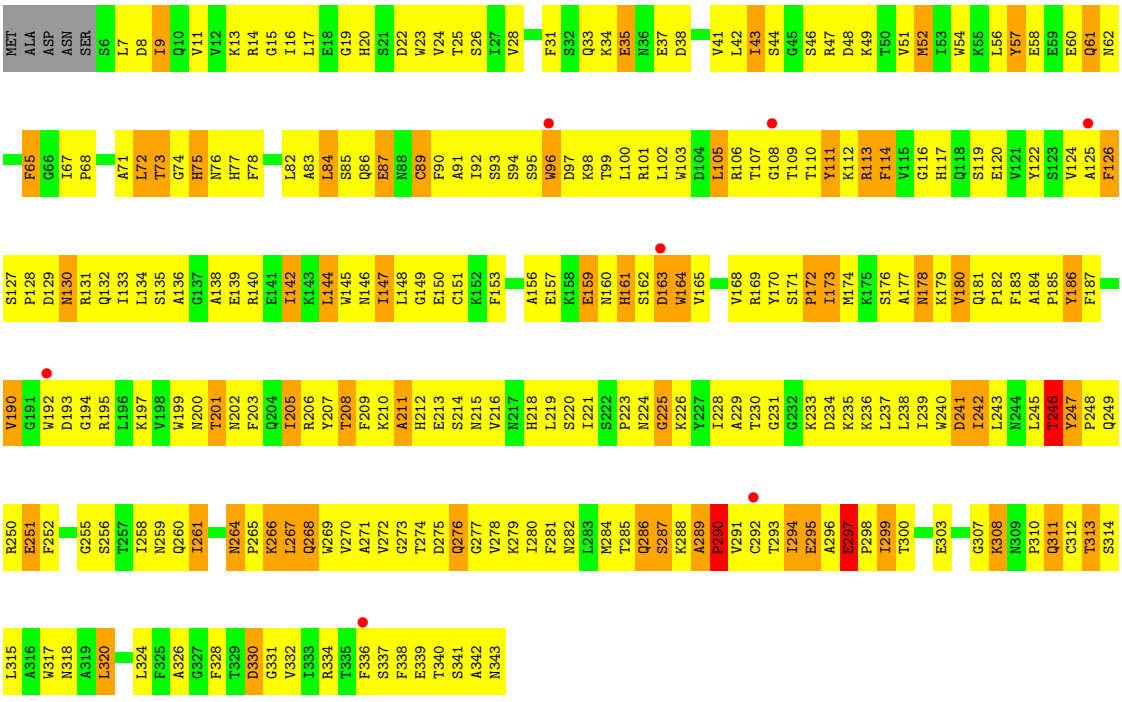




• Molecule 27: RACK1

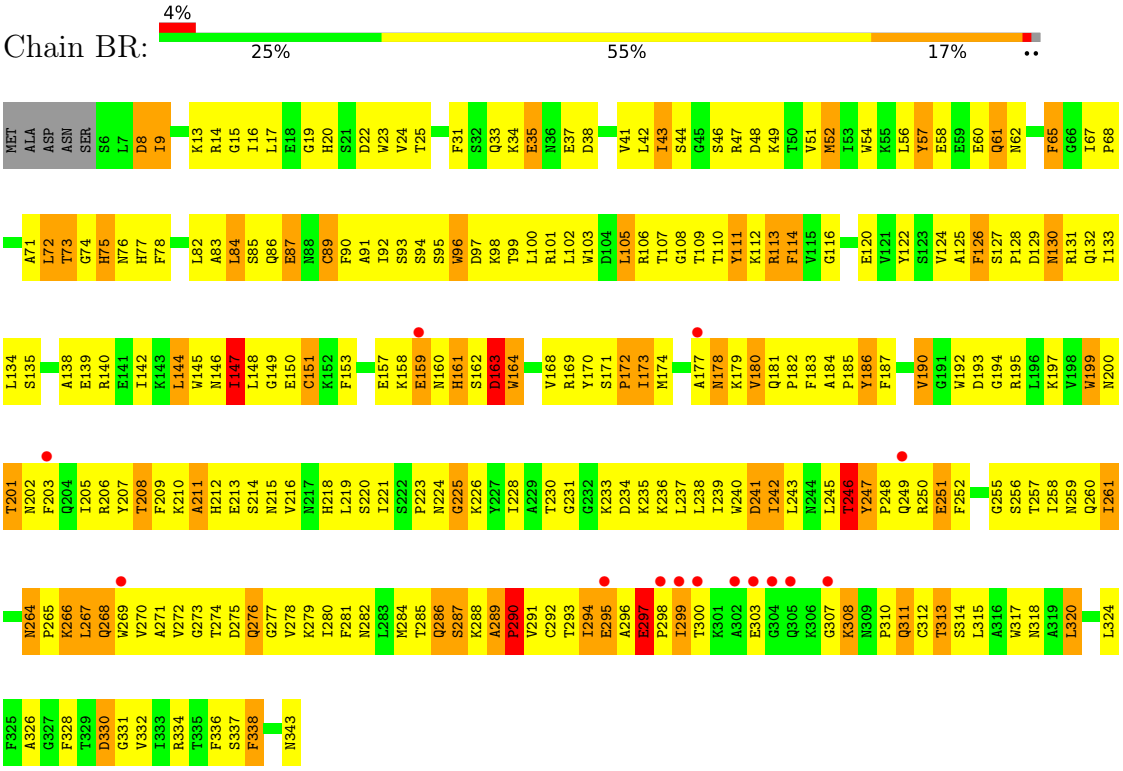
Chain AR:





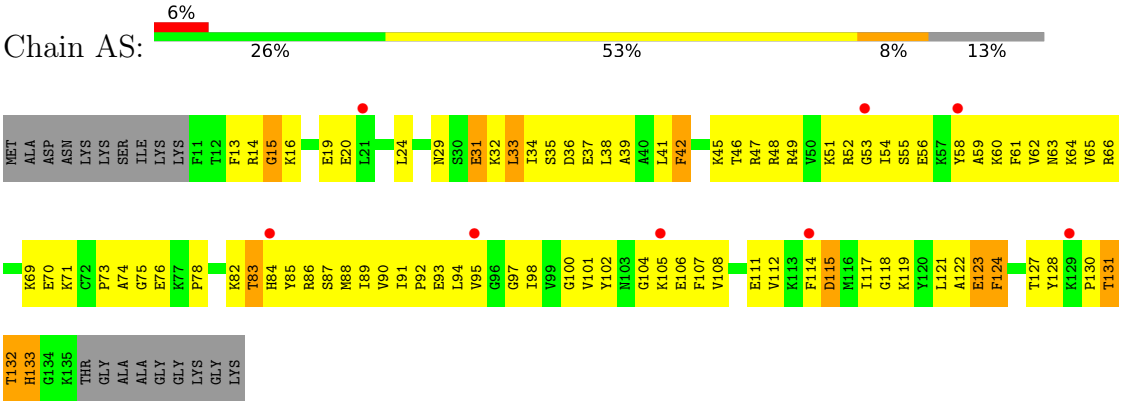
• Molecule 27: RACK1

Chain BR:



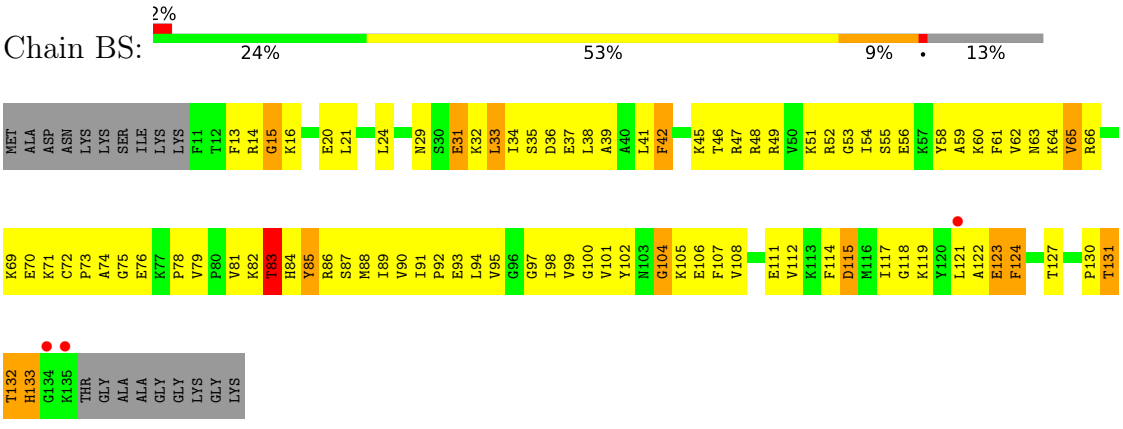
• Molecule 28: RPS15E

Chain AS:



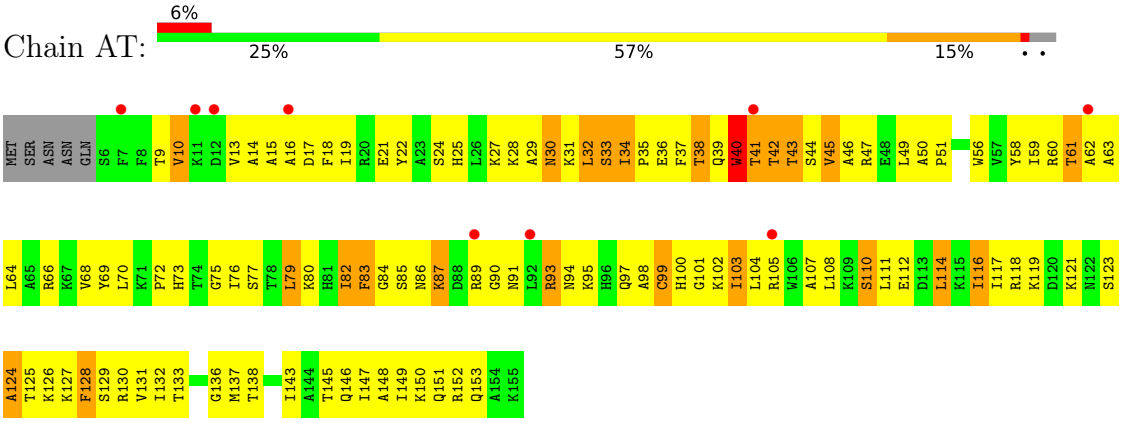
• Molecule 28: RPS15E

Chain BS:



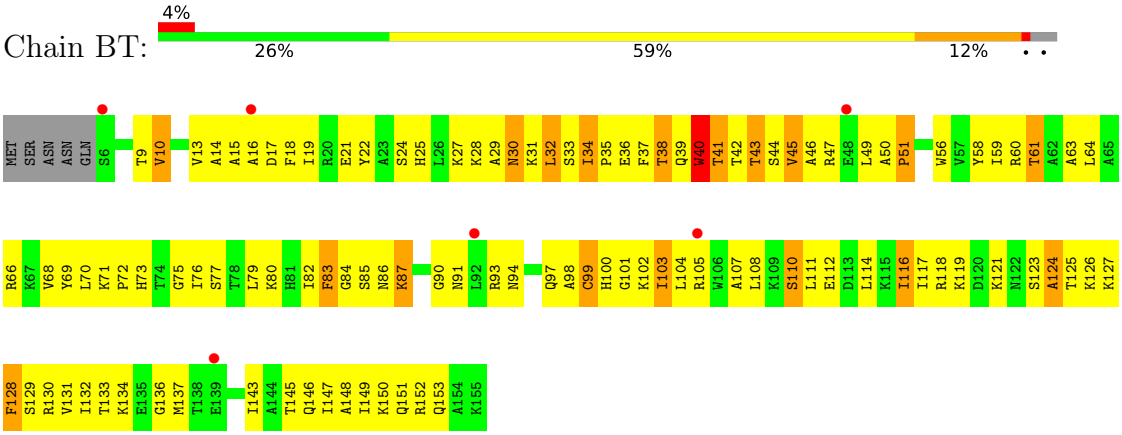
• Molecule 29: RPS19E

Chain AT:



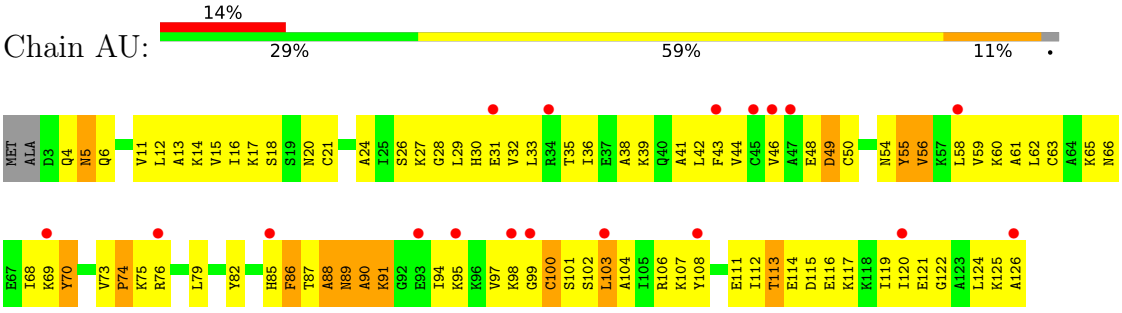
• Molecule 29: RPS19E

Chain BT:



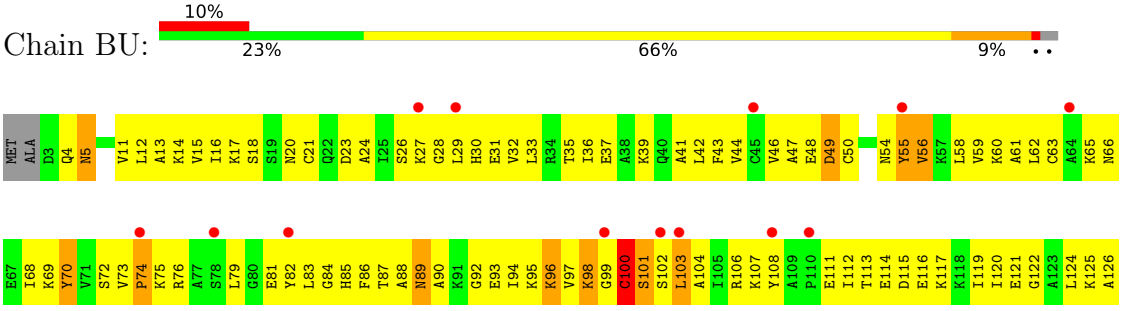
• Molecule 30: RIBOSOMAL PROTEIN L7AE CONTAINING PROTEIN

Chain AU:



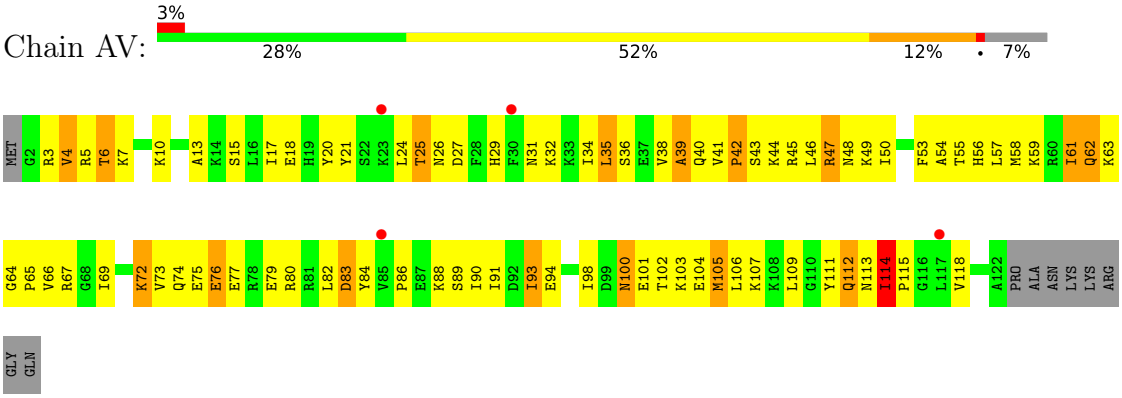
• Molecule 30: RIBOSOMAL PROTEIN L7AE CONTAINING PROTEIN

Chain BU:



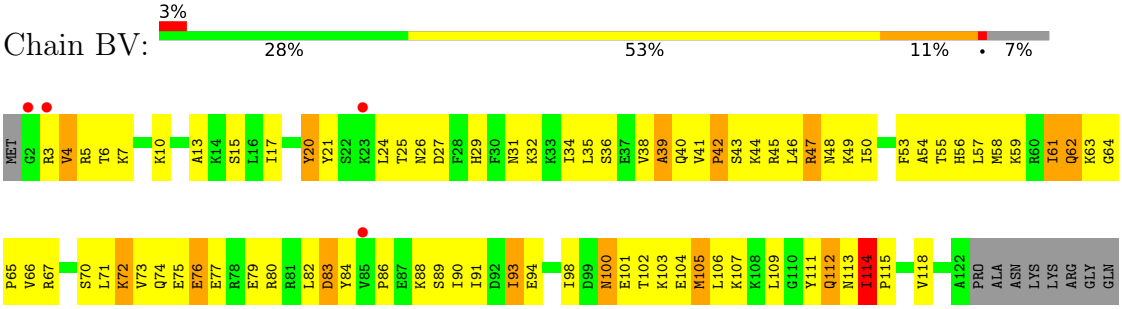
• Molecule 31: RPS17E

Chain AV:



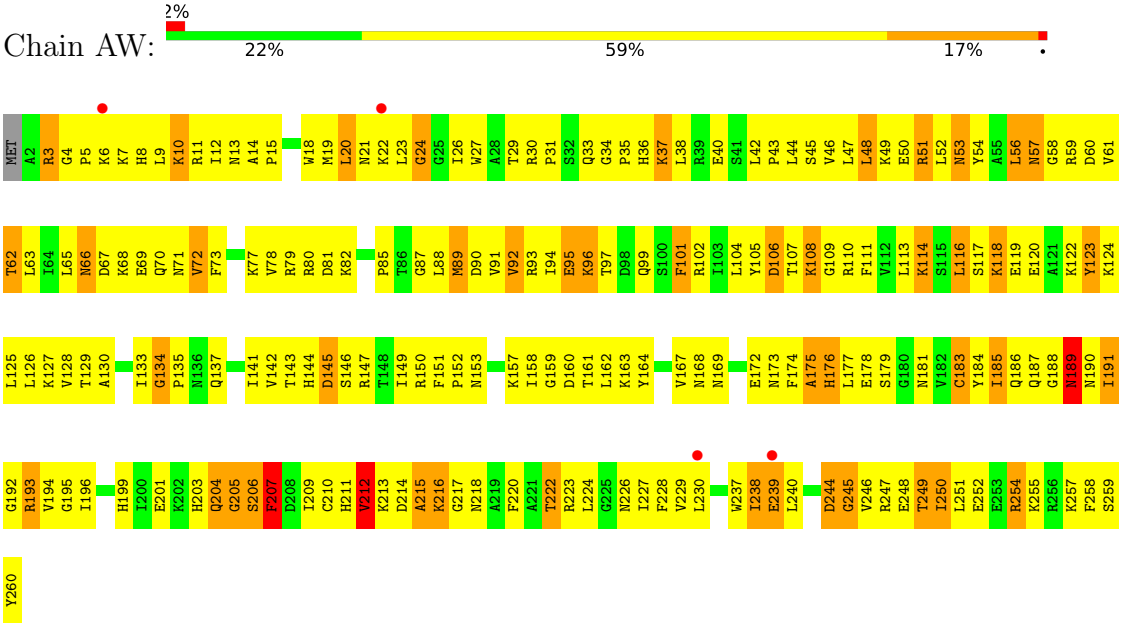
• Molecule 31: RPS17E

Chain BV:



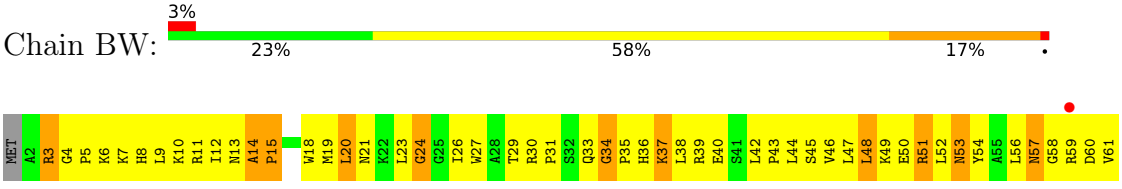
• Molecule 32: 40S RIBOSOMAL PROTEIN S4

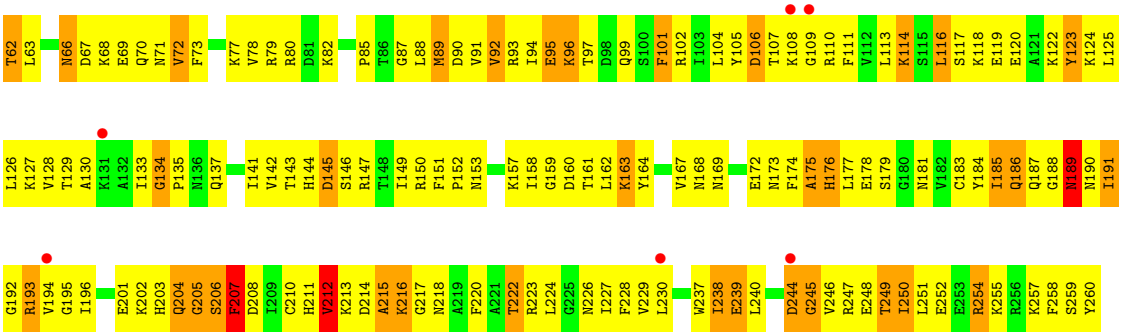
Chain AW:



• Molecule 32: 40S RIBOSOMAL PROTEIN S4

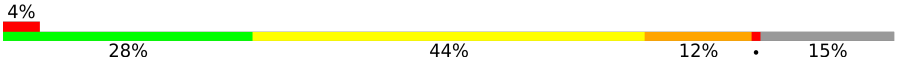
Chain BW:

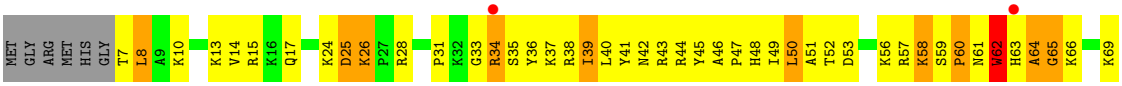




• Molecule 33: RPS30E

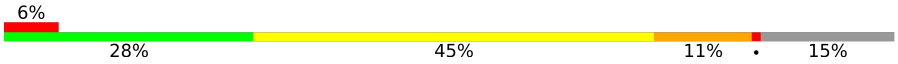
Chain AX:





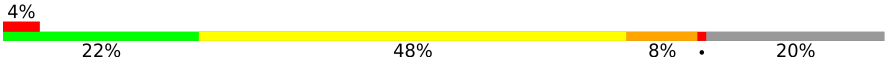
• Molecule 33: RPS30E

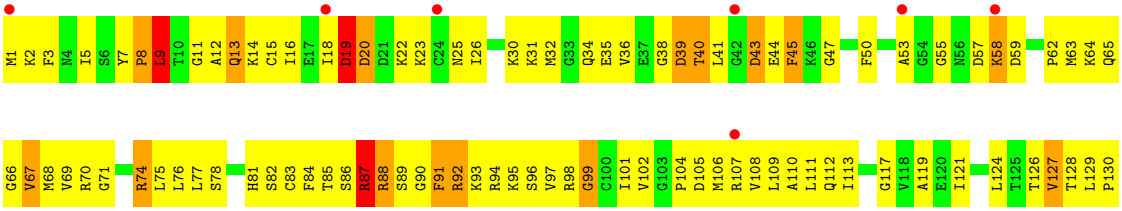
Chain BX:



• Molecule 34: RPS6E

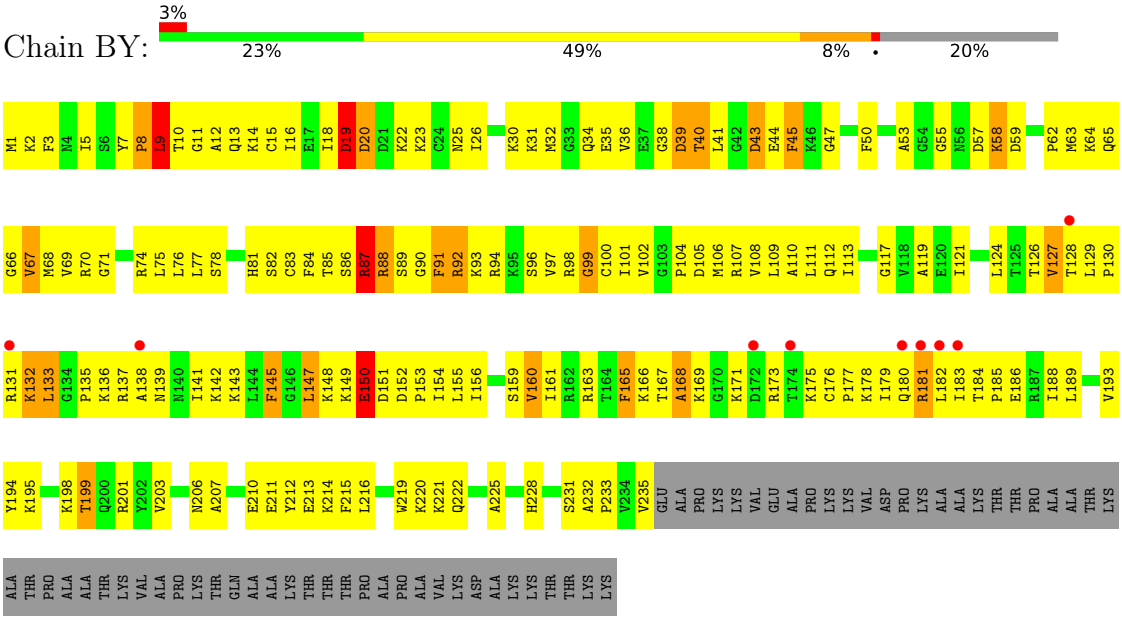
Chain AY:





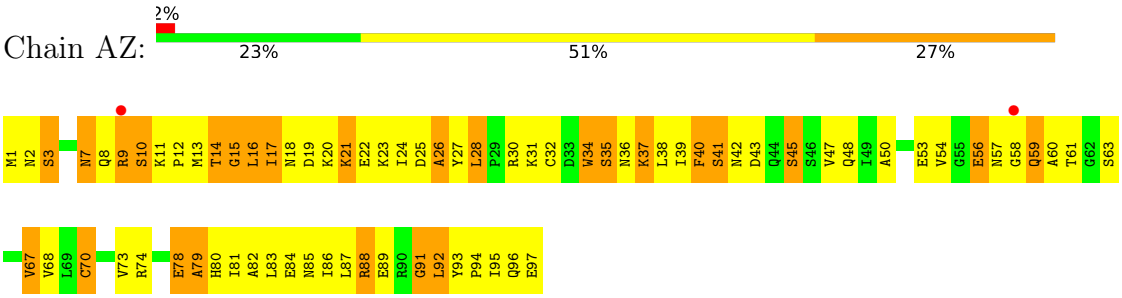
• Molecule 34: RPS6E

Chain BY:



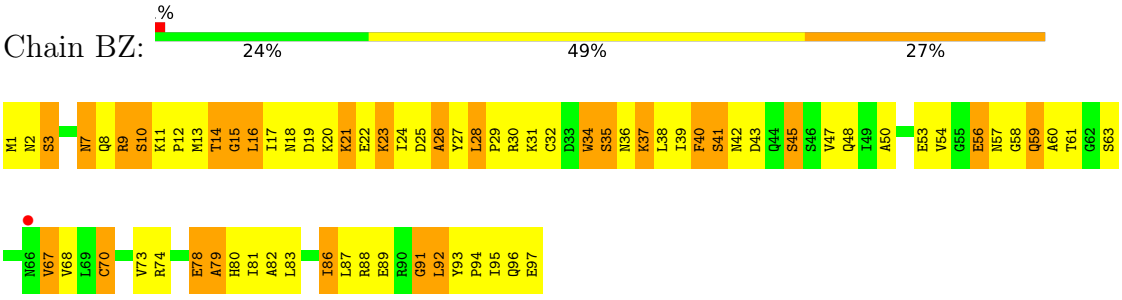
• Molecule 35: RPS21E

Chain AZ:



• Molecule 35: RPS21E

Chain BZ:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	320.52Å 362.21Å 412.11Å 90.00° 109.61° 90.00°	Depositor
Resolution (Å)	25.00 – 3.93 25.00 – 3.93	Depositor EDS
% Data completeness (in resolution range)	85.1 (25.00-3.93) 84.8 (25.00-3.93)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.24 (at 3.89Å)	Xtriage
Refinement program	CNS 1.3	Depositor
R, R_{free}	0.206 , 0.243 0.209 , 0.243	Depositor DCC
R_{free} test set	7292 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å^2)	126.5	Xtriage
Anisotropy	0.335	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.22 , 101.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	157632	wwPDB-VP
Average B, all atoms (Å^2)	148.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.78% 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: MG, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A1	0.47	0/518	1.06	2/688 (0.3%)
1	B1	0.46	0/518	1.06	2/688 (0.3%)
2	A2	0.49	0/1717	1.05	10/2288 (0.4%)
2	B2	0.49	0/1717	1.07	11/2288 (0.5%)
3	A3	0.46	0/1656	1.06	8/2223 (0.4%)
3	B3	0.51	0/1656	1.07	8/2223 (0.4%)
4	A4	0.49	0/1748	1.05	15/2340 (0.6%)
4	B4	0.50	0/1748	1.06	16/2340 (0.7%)
5	A5	0.50	0/807	1.09	5/1077 (0.5%)
5	B5	0.53	0/807	1.10	7/1077 (0.6%)
6	A6	0.54	0/640	1.07	3/855 (0.4%)
6	B6	0.59	0/640	1.09	6/855 (0.7%)
7	A7	0.49	0/879	1.12	9/1183 (0.8%)
7	B7	0.44	0/879	1.12	8/1183 (0.7%)
8	A8	0.46	0/732	0.99	2/974 (0.2%)
8	B8	0.46	0/732	0.99	2/974 (0.2%)
9	A9	0.47	0/605	1.01	3/799 (0.4%)
9	B9	0.48	0/605	1.00	4/799 (0.5%)
10	AA	0.46	2/41668 (0.0%)	0.87	140/64931 (0.2%)
10	BA	0.45	2/41668 (0.0%)	0.87	148/64931 (0.2%)
11	AB	0.51	0/1676	1.05	8/2273 (0.4%)
11	BB	0.51	0/1676	1.05	9/2273 (0.4%)
12	AC	0.56	0/1855	1.07	7/2490 (0.3%)
12	BC	0.52	0/1855	1.09	6/2490 (0.2%)
13	AD	0.56	0/1498	1.04	9/1998 (0.5%)
13	BD	0.50	0/1498	1.03	7/1998 (0.4%)
14	AE	0.59	0/1873	1.10	13/2533 (0.5%)
14	BE	0.55	0/1873	1.10	17/2533 (0.7%)
15	AF	0.53	0/751	1.03	2/1010 (0.2%)
15	BF	0.51	0/751	1.03	3/1010 (0.3%)
16	AG	0.54	0/1546	1.15	12/2079 (0.6%)
16	BG	0.56	0/1546	1.14	12/2079 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AH	0.63	0/1058	1.30	12/1421 (0.8%)
17	BH	0.63	0/1058	1.31	11/1421 (0.8%)
18	AI	0.54	0/1151	1.02	5/1540 (0.3%)
18	BI	0.54	0/1151	1.02	6/1540 (0.4%)
19	AJ	0.47	0/842	1.15	8/1133 (0.7%)
19	BJ	0.49	0/842	1.13	8/1133 (0.7%)
20	AK	0.53	0/1078	1.09	9/1452 (0.6%)
20	BK	0.52	0/1078	1.08	7/1452 (0.5%)
21	AL	0.53	0/1114	1.06	3/1485 (0.2%)
21	BL	0.55	0/1114	1.06	3/1485 (0.2%)
22	AM	0.49	0/1260	1.07	12/1690 (0.7%)
22	BM	0.48	0/1260	1.07	11/1690 (0.7%)
23	AN	0.52	0/457	1.09	5/608 (0.8%)
23	BN	0.51	0/457	1.10	4/608 (0.7%)
24	AO	0.56	0/1238	1.13	7/1658 (0.4%)
24	BO	0.57	0/1238	1.14	8/1658 (0.5%)
25	AP	0.50	0/1215	1.08	8/1626 (0.5%)
25	BP	0.47	0/1215	1.07	10/1626 (0.6%)
26	AQ	0.57	1/1298 (0.1%)	1.13	14/1741 (0.8%)
26	BQ	0.53	0/1298	1.14	11/1741 (0.6%)
27	AR	0.43	0/2750	1.05	20/3726 (0.5%)
27	BR	0.44	0/2750	1.05	20/3726 (0.5%)
28	AS	0.45	0/1003	1.03	6/1342 (0.4%)
28	BS	0.44	0/1003	1.05	7/1342 (0.5%)
29	AT	0.52	0/1233	1.02	3/1656 (0.2%)
29	BT	0.52	0/1233	1.03	2/1656 (0.1%)
30	AU	0.46	0/961	0.97	2/1288 (0.2%)
30	BU	0.42	0/961	0.97	0/1288
31	AV	0.52	0/992	1.10	4/1326 (0.3%)
31	BV	0.55	0/992	1.09	3/1326 (0.2%)
32	AW	0.52	0/2119	1.15	22/2849 (0.8%)
32	BW	0.50	0/2119	1.14	21/2849 (0.7%)
33	AX	0.46	0/566	1.18	5/753 (0.7%)
33	BX	0.43	0/566	1.19	5/753 (0.7%)
34	AY	0.46	0/1895	1.07	9/2523 (0.4%)
34	BY	0.45	0/1895	1.08	9/2523 (0.4%)
35	AZ	0.55	0/755	1.20	10/1013 (1.0%)
35	BZ	0.52	0/755	1.23	12/1013 (1.2%)
All	All	0.48	5/166308 (0.0%)	0.98	836/241142 (0.3%)

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
5	A5	0	1
5	B5	0	1
10	AA	1	70
10	BA	1	74
26	BQ	0	1
27	AR	0	1
27	BR	0	1
All	All	2	149

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	AA	1109	U	O3'-P	5.95	1.70	1.61
10	BA	1109	U	O3'-P	-5.50	1.52	1.61
10	BA	1722	U	O5'-C5'	5.20	1.50	1.42
10	AA	1721	G	O3'-P	5.12	1.68	1.61
26	AQ	79	MET	SD-CE	-5.00	1.67	1.79

All (836) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	BH	107	THR	N-CA-C	-12.91	97.61	113.50
17	AH	107	THR	N-CA-C	-12.81	97.74	113.50
24	AO	70	GLY	N-CA-C	-11.79	97.92	115.72
34	BY	40	THR	N-CA-C	-11.67	100.60	112.97
34	AY	40	THR	N-CA-C	-11.65	100.62	112.97
24	BO	70	GLY	N-CA-C	-11.38	98.54	115.72
10	AA	1722	U	C2'-C3'-O3'	-11.16	96.95	113.70
10	BA	1722	U	C2'-C3'-O3'	-10.76	97.56	113.70
16	AG	36	THR	N-CA-C	10.60	123.90	111.71
31	AV	62	GLN	N-CA-C	-10.59	100.55	113.15
31	BV	62	GLN	N-CA-C	-10.55	100.59	113.15
16	BG	36	THR	N-CA-C	10.32	123.58	111.71
10	AA	1718	A	N9-C1'-C2'	10.09	129.13	114.00
10	BA	1718	A	N9-C1'-C2'	9.93	128.89	114.00
28	AS	131	THR	N-CA-C	9.81	125.23	109.24
32	AW	107	THR	N-CA-C	-9.65	100.71	114.12
10	AA	1172	G	C2'-C3'-O3'	9.57	123.86	109.50
26	BQ	18	ASN	CB-CA-C	-9.55	105.55	116.63
32	BW	107	THR	N-CA-C	-9.53	100.87	114.12
26	AQ	18	ASN	CB-CA-C	-9.50	105.61	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	BH	86	PHE	N-CA-C	9.46	121.53	111.03
10	BA	1172	G	C2'-C3'-O3'	9.44	123.66	109.50
28	BS	131	THR	N-CA-C	9.42	124.59	109.24
35	BZ	88	ARG	N-CA-C	-9.36	101.03	111.14
3	B3	3	LEU	N-CA-C	-9.35	101.87	113.18
10	AA	1603	A	C2'-C3'-O3'	-9.35	99.68	113.70
17	AH	86	PHE	N-CA-C	9.34	121.39	111.03
10	BA	1749	C	N1-C1'-C2'	9.29	127.93	114.00
32	AW	20	LEU	N-CA-C	9.19	122.67	110.53
1	B1	21	ARG	N-CA-C	-9.16	102.29	113.19
8	B8	30	TRP	N-CA-C	-9.13	98.47	110.43
10	BA	391	A	N9-C1'-C2'	9.11	127.67	114.00
10	AA	1714	U	N1-C1'-C2'	9.07	125.60	112.00
35	AZ	88	ARG	N-CA-C	-9.01	101.41	111.14
16	BG	73	PHE	N-CA-C	9.00	124.33	113.16
12	BC	81	GLY	N-CA-C	8.99	122.22	112.33
10	AA	391	A	N9-C1'-C2'	8.98	127.47	114.00
16	AG	73	PHE	N-CA-C	8.97	124.28	113.16
10	AA	1749	C	N1-C1'-C2'	8.96	127.44	114.00
10	BA	1714	U	N1-C1'-C2'	8.95	125.43	112.00
8	A8	30	TRP	N-CA-C	-8.88	98.80	110.43
33	AX	58	LYS	N-CA-C	8.88	122.06	110.43
33	BX	58	LYS	N-CA-C	8.85	121.75	110.33
32	BW	20	LEU	N-CA-C	8.83	122.19	110.53
10	BA	1749	C	C4'-C3'-O3'	-8.74	96.28	109.40
10	BA	1603	A	C2'-C3'-O3'	-8.74	100.59	113.70
19	BJ	48	VAL	N-CA-C	8.73	121.19	108.53
1	A1	21	ARG	N-CA-C	-8.73	102.81	113.19
19	AJ	48	VAL	N-CA-C	8.72	121.18	108.53
14	AE	230	PHE	N-CA-C	-8.71	92.24	110.80
14	BE	230	PHE	N-CA-C	-8.58	92.52	110.80
3	A3	3	LEU	N-CA-C	-8.55	102.83	113.18
10	BA	607	G	C2'-C3'-O3'	8.55	122.33	109.50
10	AA	1749	C	C2'-C3'-O3'	8.54	122.31	109.50
34	AY	132	LYS	N-CA-C	8.23	121.81	111.69
35	BZ	41	SER	N-CA-C	-8.21	103.28	113.38
34	BY	132	LYS	N-CA-C	8.20	121.78	111.69
7	A7	92	PHE	N-CA-C	8.20	123.58	113.50
23	AN	49	ILE	N-CA-C	-8.16	102.10	111.00
3	A3	144	ARG	N-CA-C	-8.15	99.77	110.53
14	AE	32	LYS	N-CA-C	-8.13	103.15	113.23
29	BT	16	ALA	N-CA-C	-8.08	102.42	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AA	1749	C	C4'-C3'-O3'	-8.07	97.29	109.40
12	BC	181	LYS	N-CA-C	-8.06	103.56	113.15
10	AA	607	G	C2'-C3'-O3'	8.05	121.57	109.50
32	AW	250	ILE	N-CA-C	-8.05	100.99	111.05
7	B7	92	PHE	N-CA-C	7.96	123.29	113.50
10	BA	793	G	C2'-C3'-O3'	-7.96	101.76	113.70
35	AZ	41	SER	N-CA-C	-7.96	103.59	113.38
25	AP	10	ILE	N-CA-C	7.92	119.20	108.11
4	B4	156	SER	N-CA-C	-7.92	103.07	112.89
17	AH	97	ARG	N-CA-C	-7.92	100.67	110.65
28	AS	132	THR	N-CA-C	-7.90	98.12	110.36
32	BW	250	ILE	N-CA-C	-7.88	101.20	111.05
2	A2	23	LYS	N-CA-C	-7.86	100.74	110.41
28	BS	132	THR	N-CA-C	-7.85	98.19	110.36
14	BE	32	LYS	N-CA-C	-7.83	103.52	113.23
29	AT	16	ALA	N-CA-C	-7.81	102.73	111.71
7	B7	93	LYS	N-CA-C	7.80	122.97	111.34
12	AC	181	LYS	N-CA-C	-7.79	103.67	113.02
32	AW	14	ALA	CA-C-N	7.79	129.58	119.84
32	AW	14	ALA	C-N-CA	7.79	129.58	119.84
25	BP	10	ILE	N-CA-C	7.78	119.01	108.11
10	BA	1590	C	C2'-C3'-O3'	7.78	121.17	109.50
10	AA	1257	U	C2'-C3'-O3'	7.78	121.16	109.50
22	BM	60	LEU	N-CA-C	-7.76	104.74	112.97
27	BR	211	ALA	N-CA-C	7.73	119.61	111.03
10	BA	1554	U	C4'-C3'-O3'	-7.70	101.45	113.00
10	AA	328	G	C2'-C3'-O3'	-7.68	102.17	113.70
25	BP	109	LYS	N-CA-C	-7.68	102.03	111.33
24	AO	13	ILE	CB-CA-C	-7.68	102.57	111.09
2	A2	18	MET	CA-C-N	7.68	129.44	119.84
2	A2	18	MET	C-N-CA	7.68	129.44	119.84
10	AA	793	G	C2'-C3'-O3'	-7.67	102.19	113.70
10	AA	616	A	N9-C1'-C2'	7.67	125.51	114.00
27	AR	211	ALA	N-CA-C	7.65	119.52	111.03
4	A4	156	SER	N-CA-C	-7.65	103.41	112.89
17	AH	55	ASP	N-CA-C	-7.62	97.59	109.25
33	BX	62	TRP	N-CA-C	-7.62	103.25	112.54
7	A7	93	LYS	N-CA-C	7.62	122.69	111.34
17	BH	97	ARG	N-CA-C	-7.61	101.06	110.65
10	BA	616	A	N9-C1'-C2'	7.60	125.40	114.00
2	B2	18	MET	CA-C-N	7.60	129.34	119.84
2	B2	18	MET	C-N-CA	7.60	129.34	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	BA	616	A	C2'-C3'-O3'	7.60	120.90	109.50
10	AA	1590	C	C2'-C3'-O3'	7.59	120.89	109.50
17	BH	55	ASP	N-CA-C	-7.59	97.64	109.25
33	AX	50	LEU	N-CA-C	-7.58	104.01	113.18
4	B4	62	GLU	N-CA-C	-7.58	104.17	113.41
24	BO	13	ILE	CB-CA-C	-7.57	102.69	111.09
23	BN	49	ILE	N-CA-C	-7.57	102.75	111.00
27	AR	151	CYS	N-CA-C	-7.55	98.85	110.10
10	BA	134	C	C2'-C3'-O3'	7.53	120.80	109.50
10	BA	1257	U	C2'-C3'-O3'	7.53	120.79	109.50
4	A4	73	ALA	N-CA-C	-7.52	94.79	110.80
33	AX	62	TRP	N-CA-C	-7.49	103.41	112.54
3	B3	144	ARG	N-CA-C	-7.48	100.64	110.43
10	AA	616	A	C2'-C3'-O3'	7.45	120.68	109.50
4	A4	62	GLU	N-CA-C	-7.44	104.33	113.41
25	AP	109	LYS	N-CA-C	-7.44	102.33	111.33
10	BA	1383	G	C4'-C3'-O3'	-7.42	101.86	113.00
27	AR	225	GLY	N-CA-C	-7.41	102.16	114.76
16	BG	78	ALA	N-CA-C	7.40	121.35	110.17
10	AA	1383	G	C4'-C3'-O3'	-7.38	101.93	113.00
10	AA	134	C	C2'-C3'-O3'	7.37	120.55	109.50
22	AM	60	LEU	N-CA-C	-7.37	104.25	112.57
10	AA	559	C	N1-C1'-C2'	7.36	123.03	112.00
10	AA	391	A	C2'-C3'-O3'	7.35	120.53	109.50
25	BP	97	GLU	N-CA-C	7.35	120.01	110.53
27	AR	294	ILE	N-CA-C	-7.34	106.73	113.71
27	BR	294	ILE	N-CA-C	-7.33	106.74	113.71
33	BX	50	LEU	N-CA-C	-7.33	104.31	113.18
14	BE	122	VAL	N-CA-C	7.31	117.83	110.23
27	BR	225	GLY	N-CA-C	-7.31	102.34	114.76
10	AA	1721	G	O3'-P-O5'	7.30	114.96	104.00
10	AA	1554	U	C4'-C3'-O3'	-7.29	102.06	113.00
11	BB	136	VAL	N-CA-C	7.28	118.39	111.91
24	AO	14	SER	N-CA-C	-7.28	98.47	109.60
27	BR	151	CYS	N-CA-C	-7.28	99.26	110.10
26	AQ	70	ILE	N-CA-C	7.27	120.04	108.85
10	BA	328	G	C2'-C3'-O3'	-7.26	102.81	113.70
32	BW	158	ILE	N-CA-C	7.26	117.98	110.36
10	BA	391	A	C2'-C3'-O3'	7.26	120.39	109.50
32	BW	14	ALA	CA-C-N	7.25	128.90	119.84
32	BW	14	ALA	C-N-CA	7.25	128.90	119.84
4	B4	73	ALA	N-CA-C	-7.25	95.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BO	14	SER	N-CA-C	-7.25	98.51	109.60
35	BZ	28	LEU	CA-C-N	7.25	127.25	119.78
35	BZ	28	LEU	C-N-CA	7.25	127.25	119.78
10	AA	765	A	C2'-C3'-O3'	7.25	120.37	109.50
26	BQ	66	ARG	N-CA-C	7.24	120.58	108.13
10	BA	1749	C	C2'-C3'-O3'	7.24	120.35	109.50
26	AQ	66	ARG	N-CA-C	7.23	120.56	108.13
2	B2	130	GLY	N-CA-C	-7.22	101.47	112.51
7	A7	101	SER	N-CA-C	7.21	120.41	110.24
14	AE	122	VAL	N-CA-C	7.21	117.73	110.23
10	AA	1545	A	C2'-C3'-O3'	-7.19	98.72	109.50
10	BA	765	A	C2'-C3'-O3'	7.17	120.26	109.50
3	B3	92	VAL	N-CA-C	7.16	118.19	108.17
10	BA	1545	A	C2'-C3'-O3'	-7.16	98.77	109.50
25	AP	132	TRP	N-CA-C	-7.15	103.22	112.23
25	AP	97	GLU	N-CA-C	7.15	119.75	110.53
7	B7	101	SER	N-CA-C	7.14	120.31	110.24
16	AG	78	ALA	N-CA-C	7.12	120.92	110.17
3	A3	92	VAL	N-CA-C	7.08	118.08	108.17
10	BA	559	C	N1-C1'-C2'	7.05	122.58	112.00
2	B2	23	LYS	N-CA-C	-7.04	101.24	110.53
28	AS	133	HIS	N-CA-C	7.03	118.87	108.60
32	AW	212	VAL	N-CA-C	7.03	117.74	107.75
5	A5	73	LEU	N-CA-C	7.03	120.14	108.96
27	BR	246	THR	N-CA-C	-7.03	104.45	113.16
32	BW	249	THR	N-CA-C	-7.01	101.25	110.43
10	BA	1487	A	C2'-C3'-O3'	6.99	124.19	113.70
4	B4	207	THR	N-CA-C	6.99	118.97	111.36
35	AZ	28	LEU	CA-C-N	6.98	126.97	119.78
35	AZ	28	LEU	C-N-CA	6.98	126.97	119.78
10	AA	1495	U	C2'-C3'-O3'	6.98	119.97	109.50
7	B7	37	VAL	N-CA-C	-6.98	103.47	109.19
10	AA	942	U	C2'-C3'-O3'	6.97	119.96	109.50
10	BA	531	A	N9-C1'-C2'	6.97	124.46	114.00
34	AY	53	ALA	N-CA-C	6.96	118.87	111.28
31	BV	39	ALA	N-CA-C	6.96	117.43	108.24
10	AA	531	A	N9-C1'-C2'	6.95	124.43	114.00
22	AM	114	GLU	N-CA-C	-6.94	103.79	111.36
10	AA	436	C	C4'-C3'-O3'	-6.94	102.59	113.00
34	BY	53	ALA	N-CA-C	6.93	118.84	111.28
22	BM	114	GLU	N-CA-C	-6.92	103.82	111.36
2	B2	132	LYS	N-CA-C	6.91	125.52	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A2	130	GLY	N-CA-C	-6.91	101.94	112.51
2	A2	133	LYS	N-CA-C	6.91	119.45	111.02
25	BP	132	TRP	N-CA-C	-6.90	103.53	112.23
10	AA	444	A	C2'-C3'-O3'	6.88	119.83	109.50
24	AO	49	PRO	N-CA-C	-6.88	104.36	113.65
32	AW	249	THR	N-CA-C	-6.87	101.43	110.43
10	BA	786	A	C2'-C3'-O3'	6.87	119.80	109.50
11	AB	136	VAL	N-CA-C	6.87	118.02	111.91
27	AR	246	THR	N-CA-C	-6.86	104.66	113.16
6	A6	62	CYS	N-CA-C	6.84	120.67	109.24
20	AK	133	THR	N-CA-C	-6.84	99.30	109.42
24	BO	49	PRO	N-CA-C	-6.81	104.45	113.65
13	AD	170	GLY	N-CA-C	-6.81	106.22	114.66
2	B2	133	LYS	N-CA-C	6.81	119.33	111.02
6	B6	62	CYS	N-CA-C	6.81	120.61	109.24
10	BA	911	A	C2'-C3'-O3'	6.76	119.64	109.50
7	A7	63	PHE	N-CA-C	6.76	119.71	109.23
20	AK	88	LEU	N-CA-C	-6.75	105.01	113.18
10	AA	553	A	C2'-C3'-O3'	6.75	119.62	109.50
17	AH	41	MET	N-CA-C	-6.74	104.01	111.36
3	A3	40	ILE	N-CA-C	6.74	118.13	109.30
17	BH	41	MET	N-CA-C	-6.74	103.86	111.14
7	B7	63	PHE	N-CA-C	6.73	119.66	109.23
2	A2	132	LYS	N-CA-C	6.71	125.10	110.80
28	BS	133	HIS	N-CA-C	6.71	118.40	108.60
13	AD	175	LYS	N-CA-C	6.70	119.41	111.71
13	BD	175	LYS	N-CA-C	6.70	119.41	111.71
17	AH	93	ILE	N-CA-C	6.70	118.30	111.00
10	BA	1495	U	C2'-C3'-O3'	6.68	119.53	109.50
26	BQ	24	ALA	N-CA-C	-6.68	104.12	113.20
26	BQ	70	ILE	N-CA-C	6.67	119.13	108.85
22	AM	75	ASP	CA-C-N	6.66	126.16	119.24
22	AM	75	ASP	C-N-CA	6.66	126.16	119.24
10	BA	498	C	C2'-C3'-O3'	6.65	119.48	109.50
9	B9	94	LYS	N-CA-C	-6.65	99.47	110.17
18	BI	65	LEU	N-CA-C	6.65	120.44	110.14
9	A9	94	LYS	N-CA-C	-6.64	99.48	110.17
10	AA	360	U	C2'-C3'-O3'	6.64	119.45	109.50
10	AA	911	A	C2'-C3'-O3'	6.64	119.45	109.50
10	BA	1241	U	C2'-C3'-O3'	6.63	119.45	109.50
10	AA	786	A	C2'-C3'-O3'	6.61	119.41	109.50
32	AW	34	GLY	CA-C-N	6.60	126.18	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	AW	34	GLY	C-N-CA	6.60	126.18	119.19
11	BB	140	VAL	N-CA-C	6.59	119.00	108.85
10	BA	1245	G	C2'-C3'-O3'	6.58	119.37	109.50
10	AA	1131	C	C2'-C3'-O3'	-6.57	99.65	109.50
26	AQ	48	ILE	N-CA-C	6.57	116.59	110.42
10	AA	313	G	C2'-C3'-O3'	6.55	119.33	109.50
19	BJ	30	SER	N-CA-C	6.55	118.50	111.36
3	B3	40	ILE	N-CA-C	6.55	117.88	109.30
10	BA	436	C	C4'-C3'-O3'	-6.55	103.17	113.00
9	A9	82	THR	N-CA-C	-6.54	104.78	112.89
7	B7	8	THR	N-CA-C	-6.54	104.08	111.07
10	BA	41	U	C2'-C3'-O3'	6.53	119.29	109.50
10	BA	1721	G	O3'-P-O5'	6.53	113.79	104.00
10	BA	553	A	C2'-C3'-O3'	6.52	119.28	109.50
18	AI	65	LEU	N-CA-C	6.52	120.25	110.14
10	BA	360	U	C2'-C3'-O3'	6.52	119.28	109.50
10	AA	1487	A	C2'-C3'-O3'	6.51	123.47	113.70
14	AE	65	TYR	CA-C-N	6.51	126.73	119.90
14	AE	65	TYR	C-N-CA	6.51	126.73	119.90
23	BN	9	HIS	CA-C-N	6.50	127.97	119.84
23	BN	9	HIS	C-N-CA	6.50	127.97	119.84
20	BK	88	LEU	N-CA-C	-6.49	105.33	113.18
5	B5	44	MET	N-CA-C	6.48	118.89	111.11
14	BE	65	TYR	CA-C-N	6.48	126.70	119.90
14	BE	65	TYR	C-N-CA	6.48	126.70	119.90
16	AG	104	LEU	N-CA-C	-6.47	104.43	112.90
32	AW	101	PHE	N-CA-C	6.47	120.07	109.72
11	BB	37	GLY	N-CA-C	6.47	119.37	111.93
23	BN	12	ASN	N-CA-C	6.46	121.25	113.23
10	AA	1278	C	C2'-C3'-O3'	6.46	119.18	109.50
9	B9	82	THR	N-CA-C	-6.46	104.88	112.89
14	BE	91	THR	N-CA-C	6.44	118.55	107.93
5	B5	73	LEU	N-CA-C	6.43	120.14	109.46
17	BH	93	ILE	N-CA-C	6.43	118.01	111.00
34	BY	127	VAL	N-CA-C	6.43	118.42	109.55
20	BK	133	THR	N-CA-C	-6.42	99.91	109.42
16	BG	162	ARG	N-CA-C	-6.42	100.78	110.28
10	BA	1131	C	C2'-C3'-O3'	-6.41	99.88	109.50
32	BW	34	GLY	CA-C-N	6.40	125.98	119.19
32	BW	34	GLY	C-N-CA	6.40	125.98	119.19
4	A4	207	THR	N-CA-C	6.38	118.32	111.36
16	AG	162	ARG	N-CA-C	-6.38	100.83	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AJ	30	SER	N-CA-C	6.38	118.32	111.36
19	AJ	106	ILE	N-CA-C	6.38	117.27	109.30
23	AN	9	HIS	CA-C-N	6.37	127.81	119.84
23	AN	9	HIS	C-N-CA	6.37	127.81	119.84
10	AA	588	A	N9-C1'-C2'	6.37	123.56	114.00
16	BG	65	GLU	N-CA-C	-6.37	104.34	111.28
10	AA	1245	G	C2'-C3'-O3'	6.36	119.04	109.50
26	BQ	48	ILE	N-CA-C	6.36	116.40	110.42
29	AT	87	LYS	N-CA-C	6.35	118.77	108.41
10	BA	444	A	C2'-C3'-O3'	6.35	119.03	109.50
10	AA	1717	C	N1-C1'-C2'	6.35	121.52	112.00
10	AA	1360	U	C4'-C3'-O3'	-6.34	103.49	113.00
10	BA	942	U	C2'-C3'-O3'	6.33	119.00	109.50
10	AA	306	A	N9-C1'-C2'	6.33	123.50	114.00
7	A7	8	THR	N-CA-C	-6.33	104.30	111.07
10	AA	436	C	N1-C1'-C2'	6.33	121.49	112.00
10	AA	1418	C	C2'-C3'-O3'	6.32	118.98	109.50
31	AV	39	ALA	N-CA-C	6.32	116.58	108.24
34	AY	127	VAL	N-CA-C	6.32	118.27	109.55
11	AB	140	VAL	N-CA-C	6.32	118.58	108.85
10	AA	1719	A	C2'-C3'-O3'	-6.30	104.24	113.70
29	BT	87	LYS	N-CA-C	6.29	118.67	108.41
10	AA	834	A	C2'-C3'-O3'	6.29	118.93	109.50
28	BS	115	ASP	N-CA-C	6.28	118.93	111.71
10	AA	837	A	C2'-C3'-O3'	6.27	118.90	109.50
19	AJ	73	GLY	N-CA-C	-6.27	103.53	112.81
10	BA	436	C	N1-C1'-C2'	6.25	121.38	112.00
20	BK	143	GLU	N-CA-C	-6.25	102.28	110.53
10	BA	552	C	N1-C1'-C2'	6.25	121.37	112.00
34	BY	133	LEU	N-CA-C	6.25	118.97	108.23
34	AY	133	LEU	N-CA-C	6.24	118.96	108.23
11	AB	37	GLY	N-CA-C	6.23	119.10	111.93
4	B4	107	ASP	N-CA-C	6.23	116.46	108.24
27	AR	96	TRP	N-CA-C	-6.23	105.68	113.28
35	BZ	45	SER	N-CA-C	6.23	120.56	113.15
7	A7	37	VAL	N-CA-C	-6.22	104.09	109.19
10	BA	1488	A	C2'-C3'-O3'	6.22	118.83	109.50
22	BM	75	ASP	CA-C-N	6.21	125.70	119.24
22	BM	75	ASP	C-N-CA	6.21	125.70	119.24
27	BR	247	TYR	CA-C-N	6.21	126.53	119.83
27	BR	247	TYR	C-N-CA	6.21	126.53	119.83
10	BA	1089	U	N1-C1'-C2'	6.20	121.30	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AA	1080	G	C2'-C3'-O3'	-6.20	104.40	113.70
34	AY	58	LYS	N-CA-C	-6.19	105.82	113.19
10	BA	460	A	N9-C1'-C2'	6.19	123.29	114.00
16	AG	65	GLU	N-CA-C	-6.19	104.54	111.28
10	BA	1418	C	C2'-C3'-O3'	6.19	118.78	109.50
21	AL	115	ASP	N-CA-C	6.17	117.81	111.14
27	BR	96	TRP	N-CA-C	-6.17	105.75	113.28
10	AA	1241	U	C2'-C3'-O3'	6.17	118.76	109.50
10	BA	1555	A	C2'-C3'-O3'	6.17	118.76	109.50
32	AW	72	VAL	N-CA-C	6.16	116.98	108.12
10	BA	1717	C	O4'-C4'-C3'	6.15	110.15	104.00
10	BA	1360	U	C4'-C3'-O3'	-6.15	103.78	113.00
10	AA	431	U	N1-C1'-C2'	6.14	123.21	114.00
10	AA	498	C	C2'-C3'-O3'	6.14	118.71	109.50
10	AA	1063	A	C2'-C3'-O3'	6.14	118.71	109.50
10	BA	431	U	N1-C1'-C2'	6.13	123.19	114.00
14	AE	89	LYS	N-CA-C	-6.12	98.92	108.90
35	AZ	45	SER	N-CA-C	6.12	120.43	113.15
32	BW	101	PHE	N-CA-C	6.12	119.51	109.72
32	AW	158	ILE	N-CA-C	6.12	117.59	110.62
25	BP	79	TYR	N-CA-C	-6.12	103.23	112.04
10	AA	125	U	C2'-C3'-O3'	6.11	118.66	109.50
10	AA	41	U	C2'-C3'-O3'	6.11	118.66	109.50
22	BM	136	GLN	N-CA-C	6.11	123.81	110.80
10	AA	1089	U	N1-C1'-C2'	6.10	121.16	112.00
10	BA	64	U	C2'-C3'-O3'	6.09	118.64	109.50
14	AE	91	THR	N-CA-C	6.09	117.98	107.93
10	AA	164	U	C2'-C3'-O3'	6.09	118.63	109.50
14	BE	89	LYS	N-CA-C	-6.08	98.99	108.90
23	AN	12	ASN	N-CA-C	6.08	120.77	113.23
3	B3	182	VAL	N-CA-C	6.08	115.60	106.42
10	AA	1717	C	C4'-C3'-O3'	-6.08	103.88	113.00
24	BO	15	GLY	N-CA-C	6.08	120.01	111.14
10	AA	552	C	N1-C1'-C2'	6.07	121.11	112.00
35	AZ	15	GLY	N-CA-C	6.07	119.96	112.14
10	AA	748	U	N1-C1'-C2'	6.06	123.09	114.00
10	BA	1717	C	C4'-C3'-O3'	-6.06	103.91	113.00
20	AK	48	SER	N-CA-C	-6.06	105.70	114.12
10	BA	1080	G	C2'-C3'-O3'	-6.05	104.63	113.70
10	BA	1752	U	C4'-C3'-O3'	-6.04	103.93	113.00
10	AA	64	U	C2'-C3'-O3'	6.04	118.56	109.50
11	AB	110	LEU	N-CA-C	-6.03	104.63	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	BA	313	G	C2'-C3'-O3'	6.03	118.55	109.50
10	BA	164	U	C2'-C3'-O3'	6.03	118.55	109.50
28	AS	115	ASP	N-CA-C	6.03	118.64	111.71
13	BD	134	ILE	N-CA-C	6.03	116.76	107.78
10	AA	1752	U	C4'-C3'-O3'	-6.02	103.96	113.00
21	BL	62	GLN	N-CA-C	6.02	123.12	109.81
2	A2	21	HIS	N-CA-C	-6.02	105.66	114.39
22	AM	136	GLN	N-CA-C	6.02	123.63	110.80
13	AD	101	ILE	N-CA-C	-6.02	103.62	112.04
10	AA	460	A	N9-C1'-C2'	6.01	123.02	114.00
10	AA	1488	A	C2'-C3'-O3'	6.00	118.50	109.50
32	AW	149	ILE	N-CA-C	6.00	117.65	108.71
19	AJ	50	VAL	N-CA-C	6.00	116.51	108.11
19	BJ	50	VAL	N-CA-C	6.00	116.51	108.11
10	BA	125	U	C2'-C3'-O3'	5.99	118.48	109.50
10	BA	1172	G	N9-C1'-C2'	5.99	122.98	114.00
27	AR	65	PHE	N-CA-C	-5.99	106.96	114.56
10	BA	604	G	N9-C1'-C2'	5.99	120.98	112.00
32	BW	72	VAL	N-CA-C	5.98	116.74	108.12
10	AA	95	C	C4'-C3'-O3'	5.98	118.38	109.40
10	BA	837	A	C2'-C3'-O3'	5.98	118.47	109.50
27	BR	338	PHE	N-CA-C	5.98	119.14	109.40
8	A8	73	LEU	N-CA-C	5.97	121.31	113.30
10	AA	1717	C	O4'-C4'-C3'	5.97	109.97	104.00
18	BI	124	ARG	N-CA-C	5.97	118.00	110.24
10	BA	1443	A	C2'-C3'-O3'	-5.97	104.75	113.70
10	BA	1529	U	N1-C1'-C2'	5.97	120.95	112.00
4	B4	128	VAL	N-CA-C	5.97	116.22	108.35
10	BA	95	C	C4'-C3'-O3'	5.96	118.35	109.40
24	BO	7	LYS	N-CA-C	5.96	117.16	107.32
10	AA	981	A	N9-C1'-C2'	5.96	122.94	114.00
10	BA	1070	U	C2'-C3'-O3'	5.96	118.44	109.50
27	BR	52	MET	N-CA-C	5.96	118.83	108.76
4	A4	107	ASP	N-CA-C	5.96	116.10	108.24
10	AA	725	A	C4'-C3'-O3'	-5.95	104.08	113.00
10	BA	306	A	N9-C1'-C2'	5.94	122.91	114.00
10	BA	1063	A	C2'-C3'-O3'	5.94	118.41	109.50
24	AO	7	LYS	N-CA-C	5.94	117.12	107.32
20	AK	143	GLU	N-CA-C	-5.94	102.69	110.53
10	BA	135	A	C2'-C3'-O3'	5.94	118.41	109.50
21	AL	121	PHE	N-CA-C	5.93	118.71	109.52
27	AR	213	GLU	N-CA-C	-5.93	106.59	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A6	31	MET	N-CA-C	5.92	119.13	109.06
13	AD	134	ILE	N-CA-C	5.92	116.61	107.78
17	AH	7	LEU	N-CA-C	-5.92	104.82	111.28
10	BA	834	A	C2'-C3'-O3'	5.92	118.38	109.50
32	BW	212	VAL	N-CA-C	5.92	117.61	108.44
10	AA	2	A	N9-C1'-C2'	5.91	122.87	114.00
10	BA	124	U	N1-C1'-C2'	5.91	120.87	112.00
20	BK	126	ILE	N-CA-C	5.91	116.37	107.80
13	AD	121	SER	N-CA-C	5.91	117.23	108.60
21	AL	62	GLN	N-CA-C	5.91	122.86	109.81
10	AA	547	C	C4'-C3'-O3'	5.90	118.25	109.40
27	AR	52	MET	N-CA-C	5.90	118.73	108.76
21	BL	121	PHE	N-CA-C	5.90	118.66	109.52
10	AA	1403	U	C2'-C3'-O3'	5.89	118.34	109.50
10	BA	981	A	N9-C1'-C2'	5.88	122.82	114.00
10	BA	371	U	C2'-C3'-O3'	5.88	118.31	109.50
20	BK	48	SER	N-CA-C	-5.86	105.97	114.12
10	AA	1092	U	N1-C1'-C2'	5.86	122.79	114.00
32	AW	134	GLY	CA-C-N	5.86	127.17	119.84
32	AW	134	GLY	C-N-CA	5.86	127.17	119.84
10	AA	1277	U	C2'-C3'-O3'	5.85	118.28	109.50
35	BZ	15	GLY	N-CA-C	5.85	119.69	112.14
24	AO	15	GLY	N-CA-C	5.85	119.68	111.14
7	A7	37	VAL	CA-C-N	-5.84	113.04	120.23
7	A7	37	VAL	C-N-CA	-5.84	113.04	120.23
10	BA	588	A	N9-C1'-C2'	5.84	122.77	114.00
21	BL	115	ASP	N-CA-C	5.84	117.45	111.14
35	BZ	37	LYS	N-CA-C	-5.84	100.87	109.81
16	BG	104	LEU	N-CA-C	-5.84	104.33	112.45
17	AH	125	ILE	CB-CA-C	-5.84	103.23	111.28
6	B6	31	MET	N-CA-C	5.84	118.98	109.06
10	AA	604	G	N9-C1'-C2'	5.83	120.74	112.00
32	AW	153	ASN	CA-C-N	5.83	125.44	119.56
32	AW	153	ASN	C-N-CA	5.83	125.44	119.56
32	AW	128	VAL	N-CA-C	5.82	117.15	108.54
2	B2	78	GLU	N-CA-C	5.82	119.64	112.54
10	BA	378	A	N9-C1'-C2'	5.82	122.73	114.00
10	AA	982	U	C2'-C3'-O3'	-5.82	104.98	113.70
25	AP	79	TYR	N-CA-C	-5.82	103.67	112.04
10	BA	1717	C	N1-C1'-C2'	5.81	120.72	112.00
5	A5	44	MET	N-CA-C	5.81	118.08	111.11
14	AE	132	HIS	N-CA-C	-5.81	105.03	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	AA	391	A	C4'-C3'-O3'	5.80	118.10	109.40
31	AV	61	ILE	N-CA-C	-5.80	106.08	113.22
13	BD	121	SER	N-CA-C	5.80	117.07	108.60
10	AA	1443	A	C2'-C3'-O3'	-5.80	105.00	113.70
4	B4	75	LEU	N-CA-C	-5.80	99.16	108.55
2	A2	78	GLU	N-CA-C	5.79	119.60	112.54
20	BK	61	LYS	N-CA-C	5.79	120.62	113.50
33	BX	39	ILE	CB-CA-C	-5.79	104.46	112.04
10	BA	891	G	N9-C1'-C2'	5.78	120.68	112.00
34	BY	58	LYS	N-CA-C	-5.78	106.31	113.19
32	BW	134	GLY	CA-C-N	5.78	127.06	119.84
32	BW	134	GLY	C-N-CA	5.78	127.06	119.84
10	AA	1070	U	C2'-C3'-O3'	5.77	118.16	109.50
13	AD	12	TYR	N-CA-C	5.76	117.34	110.19
20	AK	126	ILE	N-CA-C	5.76	116.16	107.80
10	BA	1278	C	C2'-C3'-O3'	5.76	118.15	109.50
10	BA	547	C	C4'-C3'-O3'	5.75	118.03	109.40
26	BQ	148	GLY	N-CA-C	5.75	117.19	111.21
10	AA	55	U	C2'-C3'-O3'	5.75	118.12	109.50
3	B3	180	ARG	N-CA-C	5.74	118.60	109.24
2	B2	21	HIS	N-CA-C	-5.73	106.08	114.39
4	A4	91	ILE	N-CA-C	-5.72	101.28	108.84
10	AA	124	U	N1-C1'-C2'	5.72	120.58	112.00
10	AA	73	A	C2'-C3'-O3'	5.72	118.08	109.50
11	BB	110	LEU	N-CA-C	-5.72	105.02	112.23
10	AA	1259	A	C4'-C3'-O3'	5.72	117.98	109.40
16	AG	34	ALA	N-CA-C	5.71	120.91	113.88
18	AI	124	ARG	N-CA-C	5.71	117.67	110.24
32	BW	153	ASN	CA-C-N	5.71	125.33	119.56
32	BW	153	ASN	C-N-CA	5.71	125.33	119.56
22	AM	144	HIS	N-CA-C	-5.70	103.41	111.56
28	BS	42	PHE	N-CA-C	5.70	118.25	110.55
10	AA	1179	C	C4'-C3'-O3'	5.70	117.95	109.40
35	AZ	37	LYS	N-CA-C	-5.70	101.09	109.81
28	AS	61	PHE	N-CA-C	-5.69	105.15	111.36
27	BR	65	PHE	N-CA-C	-5.69	107.34	114.56
22	BM	151	VAL	N-CA-C	5.68	116.07	108.11
8	B8	73	LEU	N-CA-C	5.68	120.92	113.30
10	BA	1277	U	C2'-C3'-O3'	5.68	118.02	109.50
10	BA	1293	A	C2'-C3'-O3'	5.68	118.02	109.50
35	AZ	7	ASN	N-CA-C	5.68	119.47	112.54
11	BB	60	ILE	N-CA-C	-5.68	104.61	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AD	85	LEU	N-CA-C	-5.67	106.90	113.88
24	BO	114	LYS	N-CA-C	-5.67	105.00	111.07
10	AA	378	A	N9-C1'-C2'	5.67	122.50	114.00
1	A1	65	ARG	N-CA-C	5.66	117.13	108.52
10	AA	1555	A	C2'-C3'-O3'	5.66	117.99	109.50
12	BC	150	ALA	N-CA-C	-5.66	103.23	110.53
14	BE	88	GLN	N-CA-C	5.66	118.63	109.40
3	A3	182	VAL	N-CA-C	5.66	114.96	106.42
10	BA	841	A	N9-C1'-C2'	5.66	120.48	112.00
11	AB	106	ASN	N-CA-C	5.65	117.51	108.41
10	BA	1403	U	C2'-C3'-O3'	5.65	117.98	109.50
10	BA	73	A	C2'-C3'-O3'	5.65	117.97	109.50
10	BA	617	A	N9-C1'-C2'	5.65	122.47	114.00
10	AA	617	A	N9-C1'-C2'	5.65	122.47	114.00
34	AY	39	ASP	N-CA-C	-5.64	105.74	113.30
27	BR	72	LEU	N-CA-C	5.64	118.24	107.75
27	BR	213	GLU	N-CA-C	-5.63	106.95	113.88
17	BH	25	VAL	CB-CA-C	-5.63	101.68	110.69
10	AA	771	A	C4'-C3'-O3'	5.63	121.44	113.00
27	AR	72	LEU	N-CA-C	5.63	118.22	107.75
16	BG	37	THR	N-CA-C	5.63	118.85	110.52
3	A3	38	GLU	N-CA-C	-5.63	104.36	111.11
22	AM	72	LEU	N-CA-C	-5.63	105.24	111.71
10	BA	1384	U	C2'-C3'-O3'	-5.62	105.27	113.70
32	AW	189	ASN	N-CA-C	-5.62	106.13	112.87
10	BA	1719	A	C2'-C3'-O3'	-5.62	105.28	113.70
16	BG	29	PHE	N-CA-C	5.62	119.75	113.01
10	BA	1360	U	N1-C1'-C2'	5.61	120.42	112.00
35	BZ	7	ASN	N-CA-C	5.61	119.38	112.54
10	BA	981	A	C2'-C3'-O3'	5.61	117.91	109.50
10	AA	1529	U	N1-C1'-C2'	5.61	120.41	112.00
3	B3	38	GLU	N-CA-C	-5.60	104.39	111.11
4	B4	185	LEU	N-CA-C	5.60	117.48	109.14
13	AD	122	ILE	N-CA-C	-5.60	104.20	112.04
33	AX	65	GLY	N-CA-C	-5.60	107.27	115.72
4	B4	138	ILE	CB-CA-C	-5.60	103.52	111.19
22	AM	151	VAL	N-CA-C	5.59	115.94	108.11
19	BJ	91	LEU	N-CA-C	5.59	118.58	109.24
16	AG	29	PHE	N-CA-C	5.59	119.72	113.01
10	AA	1708	A	C2'-C3'-O3'	-5.59	105.32	113.70
32	BW	186	GLN	N-CA-C	5.58	118.13	111.71
10	AA	135	A	C2'-C3'-O3'	5.58	117.87	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AJ	94	ASN	N-CA-C	-5.58	101.94	110.14
4	A4	75	LEU	N-CA-C	-5.58	99.52	108.55
10	AA	393	C	N1-C1'-C2'	5.58	120.36	112.00
10	AA	777	U	N1-C1'-C2'	5.58	120.36	112.00
10	BA	2	A	N9-C1'-C2'	5.57	122.36	114.00
10	BA	536	C	C2'-C3'-O3'	5.57	117.86	109.50
18	AI	127	GLU	CA-C-N	5.57	125.52	119.78
18	AI	127	GLU	C-N-CA	5.57	125.52	119.78
10	AA	1312	U	C2'-C3'-O3'	5.57	117.85	109.50
31	BV	61	ILE	N-CA-C	-5.57	106.37	113.22
34	AY	168	ALA	N-CA-C	-5.57	105.59	112.38
19	BJ	106	ILE	N-CA-C	5.57	116.76	109.58
10	AA	371	U	C2'-C3'-O3'	5.56	117.84	109.50
10	AA	536	C	C2'-C3'-O3'	5.56	117.84	109.50
12	BC	135	LYS	N-CA-C	-5.55	106.50	113.72
18	AI	139	LYS	N-CA-C	5.55	117.51	109.07
32	BW	149	ILE	N-CA-C	5.55	116.98	108.71
4	A4	185	LEU	N-CA-C	5.54	117.40	109.14
10	BA	982	U	C2'-C3'-O3'	-5.54	105.39	113.70
33	BX	65	GLY	N-CA-C	-5.54	107.36	115.72
4	A4	138	ILE	CB-CA-C	-5.54	103.61	111.19
11	AB	60	ILE	N-CA-C	-5.54	104.02	111.44
2	B2	198	PHE	N-CA-C	5.53	117.00	110.97
10	AA	891	G	N9-C1'-C2'	5.53	120.29	112.00
13	BD	122	ILE	N-CA-C	-5.53	104.30	112.04
27	BR	320	LEU	N-CA-C	5.53	116.98	111.07
10	AA	1162	C	C4'-C3'-O3'	-5.52	104.72	113.00
20	AK	61	LYS	N-CA-C	5.52	120.29	113.50
10	BA	725	A	C4'-C3'-O3'	-5.52	104.72	113.00
13	BD	101	ILE	N-CA-C	-5.52	104.19	111.09
19	AJ	91	LEU	N-CA-C	5.52	118.45	109.24
34	BY	168	ALA	N-CA-C	-5.52	105.65	112.38
10	BA	748	U	N1-C1'-C2'	5.51	122.26	114.00
10	BA	777	U	N1-C1'-C2'	5.51	120.26	112.00
17	BH	7	LEU	N-CA-C	-5.51	105.28	111.28
9	A9	93	THR	N-CA-C	5.50	118.39	108.48
12	AC	163	THR	N-CA-C	5.50	118.19	109.50
16	AG	37	THR	N-CA-C	5.50	118.66	110.52
13	BD	85	LEU	N-CA-C	-5.49	107.12	113.88
10	BA	1162	C	N1-C1'-C2'	5.49	120.23	112.00
10	AA	45	A	N9-C1'-C2'	5.49	120.23	112.00
7	B7	37	VAL	CA-C-N	-5.49	113.48	120.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	B7	37	VAL	C-N-CA	-5.49	113.48	120.23
10	BA	43	U	N1-C1'-C2'	5.49	120.23	112.00
18	BI	139	LYS	N-CA-C	5.48	117.41	109.07
26	BQ	18	ASN	N-CA-C	5.48	117.34	108.08
4	B4	56	ASN	N-CA-C	-5.48	105.22	111.14
10	BA	163	A	C4'-C3'-O3'	-5.47	104.80	113.00
22	BM	72	LEU	N-CA-C	-5.47	105.42	111.71
26	AQ	18	ASN	N-CA-C	5.47	117.32	108.08
12	AC	150	ALA	N-CA-C	-5.47	103.48	110.53
10	BA	299	C	C4'-C3'-O3'	-5.46	104.80	113.00
26	AQ	141	VAL	N-CA-C	5.45	115.80	108.17
10	BA	1092	U	N1-C1'-C2'	5.45	122.17	114.00
10	AA	111	G	N9-C1'-C2'	5.45	120.17	112.00
10	BA	391	A	C4'-C3'-O3'	5.45	117.57	109.40
16	BG	161	MET	N-CA-C	-5.45	106.47	113.01
17	AH	94	LEU	CA-C-N	5.44	126.16	120.12
17	AH	94	LEU	C-N-CA	5.44	126.16	120.12
4	A4	56	ASN	N-CA-C	-5.44	105.27	111.14
5	B5	76	CYS	N-CA-C	-5.44	101.68	110.32
13	BD	63	ASP	N-CA-C	-5.44	102.58	110.08
4	A4	21	ARG	N-CA-C	5.43	117.57	109.59
10	AA	1162	C	N1-C1'-C2'	5.43	120.14	112.00
27	AR	247	TYR	CA-C-N	5.42	125.68	119.83
27	AR	247	TYR	C-N-CA	5.42	125.68	119.83
32	AW	108	LYS	N-CA-C	-5.41	105.90	112.88
34	AY	19	ASP	N-CA-C	5.41	116.99	111.14
22	BM	144	HIS	N-CA-C	-5.41	103.82	111.56
1	B1	65	ARG	N-CA-C	5.41	116.75	108.42
10	BA	1162	C	C4'-C3'-O3'	-5.41	104.88	113.00
10	BA	532	G	N9-C1'-C2'	5.41	120.11	112.00
12	BC	115	ASP	N-CA-C	5.40	119.82	113.23
26	AQ	117	LYS	N-CA-C	-5.40	99.29	110.80
33	AX	39	ILE	CB-CA-C	-5.40	104.97	111.88
30	AU	85	HIS	N-CA-C	5.40	118.01	108.24
16	BG	34	ALA	N-CA-C	5.40	120.52	113.88
25	BP	90	ARG	N-CA-C	-5.40	105.50	111.71
35	AZ	9	ARG	N-CA-C	-5.39	106.20	112.89
10	BA	350	A	N9-C1'-C2'	5.39	120.09	112.00
10	BA	301	C	C5'-C4'-C3'	-5.38	107.93	116.00
3	A3	180	ARG	N-CA-C	5.38	118.01	109.24
10	AA	906	U	N1-C1'-C2'	5.38	120.07	112.00
6	B6	73	ALA	CB-CA-C	-5.38	109.39	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AE	231	TRP	N-CA-C	5.37	122.24	110.80
27	AR	173	ILE	N-CA-C	5.37	116.25	107.24
19	BJ	94	ASN	N-CA-C	-5.37	102.22	109.95
10	AA	187	U	N1-C1'-C2'	5.36	120.05	112.00
10	AA	1311	C	C4'-C3'-O3'	5.36	117.44	109.40
25	BP	84	GLU	CA-C-N	5.36	125.27	119.85
25	BP	84	GLU	C-N-CA	5.36	125.27	119.85
14	AE	233	LYS	CA-C-N	5.36	126.54	119.84
14	AE	233	LYS	C-N-CA	5.36	126.54	119.84
26	AQ	9	TYR	N-CA-C	5.36	117.40	110.65
26	AQ	110	ILE	N-CA-C	5.36	115.80	107.28
10	BA	1259	A	C4'-C3'-O3'	5.36	117.44	109.40
10	BA	676	C	C2'-C3'-O3'	5.36	121.74	113.70
10	BA	95	C	C2'-C3'-O3'	-5.35	101.47	109.50
3	B3	39	SER	N-CA-C	5.35	116.92	111.14
10	AA	43	U	N1-C1'-C2'	5.35	120.03	112.00
2	B2	104	LEU	N-CA-C	5.35	118.16	107.62
15	BF	70	VAL	N-CA-C	5.35	116.19	108.48
10	BA	45	A	N9-C1'-C2'	5.35	120.02	112.00
10	AA	1293	A	C2'-C3'-O3'	5.35	117.52	109.50
34	BY	39	ASP	N-CA-C	-5.34	106.14	113.30
27	AR	25	THR	N-CA-C	5.34	119.64	113.18
10	BA	1003	A	N9-C1'-C2'	-5.34	104.00	112.00
12	BC	184	ILE	N-CA-C	5.33	117.55	108.86
32	AW	10	LYS	N-CA-C	5.33	117.93	109.24
9	B9	93	THR	N-CA-C	5.33	118.07	108.48
17	BH	94	LEU	CA-C-N	5.33	126.03	120.12
17	BH	94	LEU	C-N-CA	5.33	126.03	120.12
10	AA	1383	G	N9-C1'-C2'	5.33	119.99	112.00
19	AJ	65	VAL	N-CA-C	5.33	116.39	108.46
28	AS	42	PHE	N-CA-C	5.32	117.74	110.55
10	AA	1428	C	C4'-C3'-O3'	-5.32	105.02	113.00
10	BA	1708	A	C2'-C3'-O3'	-5.32	105.72	113.70
10	AA	887	U	N1-C1'-C2'	5.32	119.97	112.00
29	AT	79	LEU	N-CA-C	-5.32	105.48	111.28
10	AA	981	A	C2'-C3'-O3'	5.31	117.47	109.50
10	AA	841	A	N9-C1'-C2'	5.31	119.97	112.00
16	BG	73	PHE	CA-C-N	-5.31	115.13	122.30
16	BG	73	PHE	C-N-CA	-5.31	115.13	122.30
27	BR	173	ILE	N-CA-C	5.31	116.16	107.24
10	BA	574	A	N9-C1'-C2'	5.31	121.96	114.00
27	BR	199	TRP	N-CA-C	5.31	117.89	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BW	128	VAL	N-CA-C	5.31	116.39	108.54
16	AG	73	PHE	CA-C-N	-5.30	115.14	122.30
16	AG	73	PHE	C-N-CA	-5.30	115.14	122.30
31	AV	6	THR	N-CA-C	-5.30	103.48	110.43
26	AQ	148	GLY	N-CA-C	5.30	116.72	111.21
34	BY	19	ASP	N-CA-C	5.30	116.86	111.14
4	A4	128	VAL	N-CA-C	5.30	116.29	108.45
10	AA	1744	U	N1-C1'-C2'	5.30	119.95	112.00
10	BA	1744	U	N1-C1'-C2'	5.30	119.95	112.00
4	A4	38	ILE	CA-C-N	-5.28	113.24	119.84
4	A4	38	ILE	C-N-CA	-5.28	113.24	119.84
27	BR	25	THR	N-CA-C	5.28	119.57	113.18
22	AM	41	ARG	N-CA-C	5.28	119.44	112.89
35	BZ	9	ARG	N-CA-C	-5.28	106.35	112.89
10	AA	1110	A	C2'-C3'-O3'	5.28	117.41	109.50
17	BH	9	GLU	N-CA-C	-5.28	105.22	110.97
10	BA	55	U	C2'-C3'-O3'	5.27	117.41	109.50
22	BM	64	ASP	N-CA-C	-5.27	105.43	111.07
5	A5	71	VAL	N-CA-C	5.27	115.17	107.37
11	AB	184	GLU	N-CA-C	-5.27	106.53	113.17
10	AA	350	A	N9-C1'-C2'	5.26	119.90	112.00
10	BA	111	G	N9-C1'-C2'	5.26	119.89	112.00
14	BE	125	ALA	N-CA-C	-5.26	105.46	111.14
10	AA	1573	G	N9-C1'-C2'	5.26	121.89	114.00
10	BA	1199	G	C2'-C3'-O3'	5.26	117.39	109.50
10	BA	1110	A	C2'-C3'-O3'	5.26	117.39	109.50
10	AA	1199	G	C2'-C3'-O3'	5.25	117.38	109.50
10	AA	1065	A	O4'-C1'-C2'	5.25	111.05	105.80
10	BA	1721	G	C2'-C3'-O3'	5.25	117.38	109.50
5	A5	76	CYS	N-CA-C	-5.25	101.97	110.32
10	AA	1003	A	N9-C1'-C2'	-5.24	104.14	112.00
23	AN	33	TYR	N-CA-C	-5.24	99.64	110.80
4	B4	91	ILE	N-CA-C	-5.24	101.92	108.84
10	AA	1172	G	N9-C1'-C2'	5.24	121.86	114.00
25	AP	90	ARG	N-CA-C	-5.24	105.68	111.71
10	AA	611	U	N1-C1'-C2'	5.24	119.86	112.00
16	AG	161	MET	N-CA-C	-5.24	106.84	113.18
14	BE	233	LYS	CA-C-N	5.24	126.39	119.84
14	BE	233	LYS	C-N-CA	5.24	126.39	119.84
5	A5	40	THR	N-CA-C	5.24	118.25	110.14
10	BA	1168	A	C4'-C3'-O3'	-5.23	105.15	113.00
10	AA	532	G	N9-C1'-C2'	5.23	119.85	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	AR	9	ILE	CB-CA-C	-5.23	105.58	111.23
22	AM	28	THR	N-CA-C	5.23	119.61	112.55
10	AA	574	A	N9-C1'-C2'	5.23	121.84	114.00
10	BA	16	G	N9-C1'-C2'	5.23	119.84	112.00
10	AA	1008	A	N9-C1'-C2'	5.23	121.84	114.00
6	A6	73	ALA	CB-CA-C	-5.22	109.58	115.79
10	AA	445	U	N1-C1'-C2'	5.22	119.83	112.00
12	AC	115	ASP	N-CA-C	5.22	119.60	113.23
10	BA	841	A	C4'-C3'-O3'	-5.22	105.17	113.00
10	BA	1088	A	N9-C1'-C2'	5.22	119.83	112.00
2	A2	104	LEU	N-CA-C	5.22	117.90	107.62
4	B4	21	ARG	N-CA-C	5.22	117.26	109.59
4	B4	135	GLY	N-CA-C	-5.22	100.81	113.18
14	BE	78	MET	N-CA-C	5.22	116.92	108.41
15	BF	37	GLY	CA-C-N	-5.22	118.83	122.59
15	BF	37	GLY	C-N-CA	-5.22	118.83	122.59
10	AA	1384	U	C2'-C3'-O3'	-5.22	105.88	113.70
5	B5	77	ILE	CB-CA-C	-5.22	105.02	111.70
20	BK	131	ASP	N-CA-C	-5.22	99.91	108.41
5	B5	71	VAL	N-CA-C	5.21	115.08	107.37
35	BZ	86	ILE	N-CA-C	-5.21	104.75	112.04
10	BA	981	A	C4'-C3'-O3'	-5.20	101.60	109.40
25	AP	16	LEU	N-CA-C	-5.20	106.53	112.92
27	BR	286	GLN	N-CA-C	-5.20	104.62	112.99
10	BA	1293	A	N9-C1'-C2'	5.19	121.79	114.00
26	BQ	110	ILE	N-CA-C	5.19	115.54	107.28
20	AK	70	SER	N-CA-C	5.19	121.27	109.81
14	BE	107	ASP	N-CA-C	-5.19	100.06	108.52
19	BJ	65	VAL	N-CA-C	5.19	116.19	108.46
10	AA	750	U	C2'-C3'-O3'	5.18	121.47	113.70
10	BA	187	U	N1-C1'-C2'	5.18	119.77	112.00
10	BA	1430	C	C2'-C3'-O3'	5.18	117.27	109.50
10	BA	1383	G	N9-C1'-C2'	5.18	119.77	112.00
10	AA	299	C	C4'-C3'-O3'	-5.18	105.24	113.00
15	AF	70	VAL	N-CA-C	5.18	115.93	108.48
24	AO	114	LYS	N-CA-C	-5.18	105.53	111.07
27	AR	299	ILE	N-CA-C	-5.18	104.62	111.09
11	BB	106	ASN	N-CA-C	5.18	117.19	108.96
10	AA	968	C	C5'-C4'-C3'	-5.17	108.24	116.00
32	BW	189	ASN	N-CA-C	-5.17	106.66	112.87
18	BI	67	ILE	N-CA-C	5.17	115.30	107.80
10	BA	906	U	N1-C1'-C2'	5.17	119.76	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	BA	611	U	N1-C1'-C2'	5.17	119.75	112.00
11	AB	34	SER	N-CA-C	5.17	116.33	108.12
10	BA	1311	C	C4'-C3'-O3'	5.17	117.15	109.40
14	BE	231	TRP	N-CA-C	5.17	121.80	110.80
10	BA	771	A	C4'-C3'-O3'	5.17	120.75	113.00
28	BS	83	THR	N-CA-C	5.17	116.69	108.79
9	B9	96	GLY	N-CA-C	-5.16	103.06	111.78
12	AC	11	LYS	N-CA-C	-5.16	105.30	111.03
19	BJ	73	GLY	N-CA-C	-5.16	104.35	112.61
26	BQ	150	VAL	N-CA-C	-5.16	104.52	111.44
2	A2	198	PHE	N-CA-C	5.15	116.59	110.97
18	BI	8	LEU	N-CA-C	5.15	117.50	109.52
10	AA	163	A	C4'-C3'-O3'	-5.15	105.28	113.00
14	AE	78	MET	N-CA-C	5.15	116.80	108.41
22	BM	41	ARG	N-CA-C	5.15	119.28	112.89
5	B5	21	VAL	N-CA-C	5.15	113.41	109.19
15	AF	48	MET	N-CA-C	-5.14	105.57	111.07
20	AK	131	ASP	N-CA-C	-5.14	100.04	108.41
6	B6	63	LYS	CA-C-N	5.14	125.58	120.14
6	B6	63	LYS	C-N-CA	5.14	125.58	120.14
10	BA	906	U	C4'-C3'-O3'	-5.14	105.29	113.00
26	BQ	117	LYS	N-CA-C	-5.14	99.86	110.80
26	AQ	150	VAL	N-CA-C	-5.13	104.56	111.44
10	BA	1752	U	N1-C1'-C2'	5.13	119.70	112.00
27	BR	299	ILE	N-CA-C	-5.13	104.67	111.09
7	A7	55	LEU	N-CA-C	5.13	117.80	109.24
10	BA	393	C	N1-C1'-C2'	5.13	119.69	112.00
10	AA	1430	C	C2'-C3'-O3'	5.13	117.19	109.50
10	BA	1069	U	C2'-C3'-O3'	5.12	117.19	109.50
10	BA	1072	G	C2'-C3'-O3'	-5.12	106.02	113.70
11	BB	34	SER	N-CA-C	5.12	116.27	108.12
26	AQ	45	LYS	N-CA-C	-5.12	105.59	111.07
35	AZ	56	GLU	N-CA-C	5.12	121.70	110.80
10	BA	1319	U	C2'-C3'-O3'	5.11	117.17	109.50
3	A3	181	GLU	N-CA-C	-5.11	102.29	109.96
28	BS	61	PHE	N-CA-C	-5.11	105.79	111.36
14	AE	88	GLN	N-CA-C	5.11	117.89	109.72
10	AA	676	C	C2'-C3'-O3'	5.11	121.36	113.70
22	AM	64	ASP	N-CA-C	-5.10	105.61	111.07
27	AR	62	ASN	N-CA-C	-5.10	105.85	111.71
27	AR	286	GLN	N-CA-C	-5.10	104.78	112.99
26	AQ	52	TYR	N-CA-C	5.09	117.61	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	AH	65	LEU	N-CA-C	5.09	117.00	107.99
10	BA	378	A	C2'-C3'-O3'	5.09	117.14	109.50
10	BA	770	G	N9-C1'-C2'	5.09	119.64	112.00
18	BI	40	MET	N-CA-C	5.09	119.45	112.88
10	BA	1352	A	N9-C1'-C2'	5.09	119.63	112.00
22	AM	84	TRP	N-CA-C	5.08	118.62	112.93
14	BE	70	ASP	N-CA-C	-5.08	106.92	112.72
35	BZ	23	LYS	N-CA-C	-5.08	101.43	109.96
10	AA	109	U	C2'-C3'-O3'	-5.08	106.08	113.70
26	AQ	93	VAL	N-CA-C	5.08	113.69	106.53
10	BA	408	C	C2'-C3'-O3'	-5.08	106.09	113.70
10	BA	447	C	N1-C1'-C2'	5.08	119.61	112.00
10	AA	447	C	N1-C1'-C2'	5.07	119.61	112.00
11	BB	79	GLN	N-CA-C	-5.07	105.75	111.28
10	AA	1554	U	N1-C1'-C2'	5.07	119.61	112.00
6	B6	27	ASN	N-CA-C	-5.07	107.65	113.88
10	AA	16	G	N9-C1'-C2'	5.07	119.60	112.00
25	BP	16	LEU	N-CA-C	-5.07	106.94	113.02
10	AA	1088	A	N9-C1'-C2'	5.06	119.60	112.00
32	AW	183	CYS	N-CA-C	5.06	116.77	109.07
10	AA	1752	U	N1-C1'-C2'	5.06	119.59	112.00
10	BA	1710	G	C4'-C3'-O3'	-5.06	105.41	113.00
22	BM	23	ASP	N-CA-C	5.06	117.65	109.40
10	AA	1352	A	N9-C1'-C2'	5.06	119.59	112.00
35	BZ	56	GLU	N-CA-C	5.06	121.57	110.80
4	B4	101	THR	N-CA-C	5.05	117.65	109.06
10	BA	1554	U	N1-C1'-C2'	5.05	119.58	112.00
24	BO	5	GLN	N-CA-C	5.05	121.57	110.80
17	AH	9	GLU	N-CA-C	-5.05	105.46	110.97
10	BA	1312	U	C2'-C3'-O3'	5.05	117.08	109.50
4	A4	135	GLY	N-CA-C	-5.05	101.21	113.18
10	AA	1140	U	C4'-C3'-O3'	-5.05	105.42	113.00
25	BP	7	THR	N-CA-C	-5.05	102.22	110.20
11	BB	92	LYS	N-CA-C	5.05	117.75	110.28
13	AD	63	ASP	N-CA-C	-5.04	103.12	110.08
12	AC	223	ASP	N-CA-C	5.04	114.99	107.88
25	AP	7	THR	N-CA-C	-5.04	102.23	110.20
10	BA	3	C	N1-C1'-C2'	5.04	119.56	112.00
14	BE	132	HIS	N-CA-C	-5.04	105.92	111.71
27	BR	62	ASN	N-CA-C	-5.04	105.92	111.71
27	AR	320	LEU	N-CA-C	5.04	116.46	111.07
5	B5	40	THR	N-CA-C	5.04	117.94	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	BA	1429	G	C2'-C3'-O3'	-5.04	106.14	113.70
32	BW	163	LYS	N-CA-C	-5.04	100.96	109.07
27	AR	142	ILE	N-CA-C	-5.03	101.13	108.17
2	B2	110	VAL	N-CA-C	5.03	114.95	108.82
4	B4	38	ILE	CA-C-N	-5.03	113.56	119.84
4	B4	38	ILE	C-N-CA	-5.03	113.56	119.84
10	AA	1072	G	C2'-C3'-O3'	-5.03	106.16	113.70
30	AU	113	THR	N-CA-C	5.02	117.58	110.50
10	AA	609	A	C4'-C3'-O3'	-5.02	105.47	113.00
20	AK	85	CYS	N-CA-C	5.02	116.83	111.36
26	BQ	61	SER	N-CA-C	5.02	115.93	108.60
10	AA	1429	G	C2'-C3'-O3'	-5.02	106.17	113.70
10	BA	1065	A	O4'-C1'-C2'	5.02	110.82	105.80
10	BA	1176	A	C4'-C3'-O3'	-5.01	105.48	113.00
14	BE	47	GLU	N-CA-C	-5.01	105.95	111.71
10	BA	1358	A	O4'-C1'-C2'	5.01	110.81	105.80
12	AC	135	LYS	N-CA-C	-5.00	106.59	113.30
10	BA	607	G	O4'-C1'-C2'	5.00	110.80	105.80

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
10	AA	1718	A	C1'
10	BA	1718	A	C1'

All (149) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	A5	39	TYR	Sidechain
10	AA	100	A	Sidechain
10	AA	1003	A	Sidechain
10	AA	1007	U	Sidechain
10	AA	1016	U	Sidechain
10	AA	106	U	Sidechain
10	AA	1065	A	Sidechain
10	AA	1069	U	Sidechain
10	AA	1071	U	Sidechain
10	AA	1092	U	Sidechain
10	AA	1100	U	Sidechain
10	AA	111	G	Sidechain
10	AA	1157	U	Sidechain
10	AA	1158	U	Sidechain

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Mol	Chain	Res	Type	Group
10	AA	1189	A	Sidechain
10	AA	1223	U	Sidechain
10	AA	1274	U	Sidechain
10	AA	1277	U	Sidechain
10	AA	1299	C	Sidechain
10	AA	1316	A	Sidechain
10	AA	134	C	Sidechain
10	AA	1405	U	Sidechain
10	AA	1408	U	Sidechain
10	AA	1430	C	Sidechain
10	AA	1480	U	Sidechain
10	AA	152	U	Sidechain
10	AA	1545	A	Sidechain
10	AA	155	U	Sidechain
10	AA	1572	A	Sidechain
10	AA	1590	C	Sidechain
10	AA	1610	G	Sidechain
10	AA	163	A	Sidechain
10	AA	1714	U	Sidechain
10	AA	1718	A	Sidechain
10	AA	1720	G	Sidechain
10	AA	1722	U	Sidechain
10	AA	1724	U	Sidechain
10	AA	1733	G	Sidechain
10	AA	1749	C	Sidechain
10	AA	181	G	Sidechain
10	AA	187	U	Sidechain
10	AA	299	C	Sidechain
10	AA	336	U	Sidechain
10	AA	371	U	Sidechain
10	AA	378	A	Sidechain
10	AA	43	U	Sidechain
10	AA	431	U	Sidechain
10	AA	436	C	Sidechain
10	AA	526	U	Sidechain
10	AA	539	U	Sidechain
10	AA	547	C	Sidechain
10	AA	55	U	Sidechain
10	AA	558	G	Sidechain
10	AA	559	C	Sidechain
10	AA	574	A	Sidechain
10	AA	59	C	Sidechain

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Mol	Chain	Res	Type	Group
10	AA	602	U	Sidechain
10	AA	603	U	Sidechain
10	AA	64	U	Sidechain
10	AA	726	U	Sidechain
10	AA	747	G	Sidechain
10	AA	75	C	Sidechain
10	AA	754	A	Sidechain
10	AA	770	G	Sidechain
10	AA	784	G	Sidechain
10	AA	855	G	Sidechain
10	AA	910	U	Sidechain
10	AA	938	U	Sidechain
10	AA	94	U	Sidechain
10	AA	942	U	Sidechain
10	AA	99	A	Sidechain
27	AR	186	TYR	Sidechain
5	B5	39	TYR	Sidechain
10	BA	100	A	Sidechain
10	BA	1001	A	Sidechain
10	BA	1003	A	Sidechain
10	BA	1007	U	Sidechain
10	BA	1016	U	Sidechain
10	BA	106	U	Sidechain
10	BA	1065	A	Sidechain
10	BA	1069	U	Sidechain
10	BA	1071	U	Sidechain
10	BA	1082	G	Sidechain
10	BA	1089	U	Sidechain
10	BA	1092	U	Sidechain
10	BA	1100	U	Sidechain
10	BA	111	G	Sidechain
10	BA	1110	A	Sidechain
10	BA	1157	U	Sidechain
10	BA	1158	U	Sidechain
10	BA	1189	A	Sidechain
10	BA	1223	U	Sidechain
10	BA	1274	U	Sidechain
10	BA	1277	U	Sidechain
10	BA	1299	C	Sidechain
10	BA	1316	A	Sidechain
10	BA	134	C	Sidechain
10	BA	1405	U	Sidechain

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Mol	Chain	Res	Type	Group
10	BA	1408	U	Sidechain
10	BA	1480	U	Sidechain
10	BA	152	U	Sidechain
10	BA	1545	A	Sidechain
10	BA	155	U	Sidechain
10	BA	1572	A	Sidechain
10	BA	1590	C	Sidechain
10	BA	1610	G	Sidechain
10	BA	1714	U	Sidechain
10	BA	1720	G	Sidechain
10	BA	1722	U	Sidechain
10	BA	1724	U	Sidechain
10	BA	1733	G	Sidechain
10	BA	1749	C	Sidechain
10	BA	181	G	Sidechain
10	BA	31	U	Sidechain
10	BA	313	G	Sidechain
10	BA	336	U	Sidechain
10	BA	371	U	Sidechain
10	BA	378	A	Sidechain
10	BA	392	A	Sidechain
10	BA	43	U	Sidechain
10	BA	431	U	Sidechain
10	BA	436	C	Sidechain
10	BA	45	A	Sidechain
10	BA	460	A	Sidechain
10	BA	530	G	Sidechain
10	BA	539	U	Sidechain
10	BA	547	C	Sidechain
10	BA	55	U	Sidechain
10	BA	559	C	Sidechain
10	BA	574	A	Sidechain
10	BA	59	C	Sidechain
10	BA	602	U	Sidechain
10	BA	603	U	Sidechain
10	BA	64	U	Sidechain
10	BA	726	U	Sidechain
10	BA	747	G	Sidechain
10	BA	75	C	Sidechain
10	BA	754	A	Sidechain
10	BA	770	G	Sidechain
10	BA	784	G	Sidechain

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Mol	Chain	Res	Type	Group
10	BA	844	G	Sidechain
10	BA	855	G	Sidechain
10	BA	910	U	Sidechain
10	BA	938	U	Sidechain
10	BA	94	U	Sidechain
10	BA	942	U	Sidechain
10	BA	99	A	Sidechain
26	BQ	96	TYR	Sidechain
27	BR	186	TYR	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	A1	519	0	550	78	0
1	B1	519	0	550	78	0
2	A2	1693	0	1795	270	0
2	B2	1693	0	1795	274	0
3	A3	1629	0	1708	189	0
3	B3	1629	0	1708	181	0
4	A4	1724	0	1822	204	0
4	B4	1724	0	1822	196	0
5	A5	797	0	836	124	0
5	B5	797	0	837	111	0
6	A6	632	0	646	89	0
6	B6	632	0	646	95	0
7	A7	859	0	860	126	0
7	B7	859	0	860	134	0
8	A8	725	0	795	141	0
8	B8	725	0	795	132	0
9	A9	742	0	785	153	0
9	B9	742	0	787	137	0
10	AA	37231	0	18715	3090	0
10	BA	37231	0	18715	3026	0
11	AB	1642	0	1653	215	0
11	BB	1642	0	1653	226	0
12	AC	1820	0	1920	257	0
12	BC	1820	0	1920	242	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	AD	1475	0	1571	223	0
13	BD	1475	0	1571	222	0
14	AE	1827	0	1861	297	0
14	BE	1827	0	1861	293	0
15	AF	736	0	722	87	0
15	BF	736	0	722	94	0
16	AG	1520	0	1572	236	0
16	BG	1520	0	1572	236	0
17	AH	1040	0	1096	171	0
17	BH	1040	0	1096	179	0
18	AI	1135	0	1204	162	0
18	BI	1135	0	1204	152	0
19	AJ	833	0	903	88	0
19	BJ	833	0	903	84	0
20	AK	1063	0	1088	195	0
20	BK	1063	0	1088	185	0
21	AL	1097	0	1169	141	0
21	BL	1097	0	1169	139	0
22	AM	1239	0	1288	204	0
22	BM	1239	0	1288	204	0
23	AN	447	0	446	81	0
23	BN	447	0	446	89	0
24	AO	1214	0	1322	134	0
24	BO	1214	0	1322	131	0
25	AP	1197	0	1285	158	0
25	BP	1197	0	1285	150	0
26	AQ	1275	0	1354	222	0
26	BQ	1275	0	1354	205	0
27	AR	2682	0	2629	365	0
27	BR	2682	0	2629	340	0
28	AS	985	0	1026	122	0
28	BS	985	0	1026	132	0
29	AT	1211	0	1265	163	0
29	BT	1211	0	1265	167	0
30	AU	952	0	993	110	0
30	BU	952	0	993	129	0
31	AV	979	0	1041	139	0
31	BV	979	0	1041	146	0
32	AW	2079	0	2151	295	0
32	BW	2079	0	2151	304	0
33	AX	554	0	604	66	0
33	BX	554	0	604	77	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	AY	1868	0	1999	264	0
34	BY	1868	0	1999	248	0
35	AZ	747	0	758	108	0
35	BZ	747	0	758	111	0
36	A4	1	0	0	0	0
36	AA	90	0	0	0	0
36	AL	1	0	0	0	0
36	B4	1	0	0	0	0
36	BA	89	0	0	0	0
36	BD	1	0	0	0	0
36	BW	1	0	0	0	0
37	A5	1	0	0	0	0
37	A6	1	0	0	0	0
37	A9	1	0	0	0	0
37	AN	1	0	0	0	0
37	B5	1	0	0	0	0
37	B6	1	0	0	0	0
37	B9	1	0	0	0	0
37	BN	1	0	0	0	0
38	A2	2	0	0	0	0
38	A4	2	0	0	0	0
38	A5	1	0	0	0	0
38	AA	516	0	0	14	0
38	AC	1	0	0	0	0
38	AD	4	0	0	0	0
38	AE	3	0	0	0	0
38	AL	3	0	0	0	0
38	AM	4	0	0	1	0
38	AO	1	0	0	0	0
38	AP	1	0	0	0	0
38	AQ	2	0	0	0	0
38	AT	4	0	0	0	0
38	AW	4	0	0	0	0
38	AY	4	0	0	0	0
38	B2	2	0	0	0	0
38	B4	2	0	0	0	0
38	B5	1	0	0	0	0
38	BA	512	0	0	5	0
38	BC	2	0	0	0	0
38	BD	2	0	0	0	0
38	BE	5	0	0	0	0
38	BK	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	BL	2	0	0	0	0
38	BM	6	0	0	0	0
38	BO	1	0	0	0	0
38	BP	1	0	0	0	0
38	BQ	1	0	0	0	0
38	BT	6	0	0	0	0
38	BW	5	0	0	0	0
38	BY	3	0	0	0	0
All	All	157632	0	122867	15711	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 56.

All (15711) 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)
10:AA:604:G:H1	10:AA:1080:G:N2	1.23	1.36
4:A4:207:THR:HG21	4:A4:213:LEU:HG	1.21	1.21
10:BA:604:G:H1	10:BA:1080:G:N2	1.40	1.19
21:AL:9:ILE:H	21:AL:9:ILE:HD12	1.02	1.18
10:AA:534:A:H3'	10:AA:535:A:H5'	1.18	1.18
10:AA:1511:A:H5"	22:AM:40:ARG:HH12	1.08	1.18
29:BT:45:VAL:HG22	29:BT:99:CYS:HA	1.21	1.17
16:AG:57:ARG:HA	16:AG:57:ARG:HH11	1.02	1.17
10:BA:534:A:H3'	10:BA:535:A:H5'	1.20	1.17
10:AA:83:C:H2'	10:AA:84:U:H5"	1.26	1.16
29:AT:45:VAL:HG22	29:AT:99:CYS:HA	1.22	1.16
10:AA:770:G:H2'	10:AA:771:A:C8	1.81	1.15
4:A4:126:ALA:HB1	4:A4:175:ASN:HD21	1.11	1.15
10:BA:1740:C:OP2	20:BK:146:ARG:HB2	1.46	1.15
14:AE:154:THR:HG21	14:AE:172:PRO:HA	1.23	1.15
10:AA:1487:A:H5'	12:AC:10:LYS:HE2	1.28	1.14
10:AA:1511:A:H5"	22:AM:40:ARG:NH1	1.62	1.14
24:BO:86:LEU:HD12	24:BO:87:PRO:HD2	1.29	1.14
10:BA:770:G:H2'	10:BA:771:A:C8	1.81	1.14
10:BA:1608:C:H4'	10:BA:1609:C:H5"	1.25	1.13
18:BI:44:GLN:HA	18:BI:47:GLN:HE21	1.07	1.13
17:AH:59:LYS:HD3	17:AH:59:LYS:H	1.12	1.13
10:AA:45:A:H4'	10:AA:46:A:H5'	1.28	1.13
10:AA:1325:G:H2'	10:AA:1326:C:H5"	1.18	1.12
4:B4:207:THR:HG21	4:B4:213:LEU:HG	1.18	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BG:57:ARG:HH11	16:BG:57:ARG:HA	1.01	1.12
14:BE:154:THR:HG22	14:BE:155:ILE:H	0.98	1.12
10:BA:1322:U:H5"	18:BI:70:ARG:HH12	1.01	1.11
18:AI:44:GLN:HA	18:AI:47:GLN:HE21	1.06	1.11
10:AA:500:U:H2'	10:AA:501:U:H5"	1.31	1.11
1:A1:41:LEU:HD23	1:A1:43:ARG:HD3	1.33	1.10
32:BW:89:MET:HE3	32:BW:104:LEU:HD21	1.30	1.10
30:AU:89:ASN:HD22	30:AU:90:ALA:N	1.49	1.10
10:BA:500:U:H2'	10:BA:501:U:H5"	1.30	1.10
10:BA:1325:G:H2'	10:BA:1326:C:H5"	1.17	1.10
10:BA:1454:A:H4'	18:BI:74:SER:HA	1.31	1.10
19:BJ:49:GLU:HB2	19:BJ:92:THR:HB	1.31	1.10
35:BZ:40:PHE:HB2	35:BZ:43:ASP:HB2	1.34	1.10
10:AA:1608:C:H4'	10:AA:1609:C:H5"	1.25	1.09
27:BR:180:VAL:HG12	27:BR:181:GLN:H	1.16	1.09
10:BA:1370:U:H2'	10:BA:1371:A:H5'	1.33	1.09
10:BA:1212:U:H3'	10:BA:1213:G:H5"	1.34	1.09
4:B4:126:ALA:HB1	4:B4:175:ASN:HD21	1.12	1.08
10:BA:45:A:H4'	10:BA:46:A:H5'	1.27	1.08
21:BL:9:ILE:H	21:BL:9:ILE:HD12	0.97	1.08
10:BA:1263:G:H5'	14:BE:120:LYS:HE3	1.34	1.08
34:BY:160:VAL:HG12	34:BY:161:ILE:H	1.18	1.08
10:BA:125:U:H4'	10:BA:126:A:H5"	1.35	1.08
10:AA:1325:G:C2'	10:AA:1326:C:H5"	1.84	1.08
14:BE:154:THR:HG21	14:BE:172:PRO:HA	1.18	1.08
10:AA:1212:U:H3'	10:AA:1213:G:H5"	1.34	1.07
10:AA:1454:A:H4'	18:AI:74:SER:HA	1.31	1.07
10:BA:83:C:H2'	10:BA:84:U:H5"	1.29	1.07
9:B9:155:UNK:O	9:B9:158:UNK:HG3	1.52	1.07
10:BA:1530:U:H4'	10:BA:1531:G:OP2	1.52	1.07
13:AD:40:ARG:HG3	13:AD:41:GLU:H	1.18	1.07
10:BA:886:U:H3'	10:BA:887:U:H5"	1.10	1.07
10:BA:1325:G:C2'	10:BA:1326:C:H5"	1.83	1.07
21:BL:116:ILE:HG21	21:BL:119:VAL:HB	1.33	1.07
31:AV:61:ILE:HG12	31:AV:66:VAL:HG21	1.36	1.07
9:A9:126:ALA:HA	10:AA:1224:C:H5'	1.37	1.06
17:BH:59:LYS:HD3	17:BH:59:LYS:H	1.13	1.06
24:AO:86:LEU:HD12	24:AO:87:PRO:HD2	1.31	1.06
12:BC:35:ALA:HB2	12:BC:60:GLN:HB2	1.37	1.06
10:AA:1370:U:H2'	10:AA:1371:A:H5'	1.31	1.06
14:AE:154:THR:HG22	14:AE:155:ILE:H	0.95	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:669:G:H2'	10:AA:670:G:H5"	1.36	1.06
13:AD:53:ARG:NH1	14:AE:176:GLY:HA3	1.71	1.06
26:AQ:116:VAL:HG12	26:AQ:117:LYS:H	1.14	1.05
10:BA:1732:U:H5'	10:BA:1732:U:H6	1.17	1.05
10:AA:1322:U:H5"	18:AI:70:ARG:HH12	1.12	1.05
19:AJ:49:GLU:HB2	19:AJ:92:THR:HB	1.34	1.05
22:BM:1:MET:HG2	22:BM:2:SER:H	1.16	1.05
26:BQ:116:VAL:HG12	26:BQ:117:LYS:H	1.19	1.05
10:BA:797:A:H2'	10:BA:798:G:O4'	1.56	1.05
34:BY:5:ILE:HG12	34:BY:111:LEU:HB2	1.38	1.05
10:AA:1530:U:H4'	10:AA:1531:G:OP2	1.51	1.05
26:AQ:85:ILE:HD11	26:AQ:122:LEU:HD13	1.39	1.05
5:A5:30:VAL:HG11	5:A5:35:ALA:HB2	1.36	1.05
10:AA:886:U:H3'	10:AA:887:U:H5"	1.11	1.05
13:BD:17:ARG:HH22	14:BE:183:PRO:HD3	1.22	1.05
1:B1:41:LEU:HD23	1:B1:43:ARG:HD3	1.32	1.04
34:BY:23:LYS:HD3	34:BY:41:LEU:HD23	1.38	1.04
27:AR:180:VAL:HG12	27:AR:181:GLN:H	1.14	1.04
10:BA:669:G:H2'	10:BA:670:G:H5"	1.37	1.04
1:A1:9:ALA:HB2	1:A1:31:LEU:HD23	1.39	1.04
8:A8:32:LYS:HB2	15:BF:43:ASP:H	1.21	1.04
9:A9:155:UNK:O	9:A9:158:UNK:HG3	1.53	1.04
25:AP:2:THR:HG22	25:AP:3:ILE:H	1.19	1.04
25:BP:2:THR:HG22	25:BP:3:ILE:H	1.19	1.04
4:A4:63:ILE:HG22	4:A4:66:ARG:HG3	1.40	1.04
32:AW:89:MET:HE3	32:AW:104:LEU:HD21	1.35	1.04
10:BA:1487:A:H5'	12:BC:10:LYS:HE2	1.39	1.04
18:AI:129:LYS:HG2	18:AI:130:LYS:H	1.23	1.03
24:BO:100:ILE:HG21	24:BO:117:LEU:HB2	1.39	1.03
34:AY:23:LYS:HD3	34:AY:41:LEU:HD23	1.37	1.03
10:BA:1748:U:O2'	10:BA:1750:A:H2	1.39	1.03
10:AA:1072:G:H4'	10:AA:1073:G:OP1	1.59	1.03
10:AA:1732:U:H5'	10:AA:1732:U:H6	1.20	1.03
21:AL:19:ARG:NH1	21:AL:19:ARG:HA	1.73	1.03
1:B1:12:MET:HB3	1:B1:28:ARG:HG2	1.39	1.03
3:B3:144:ARG:HH22	35:BZ:3:SER:HB2	1.18	1.03
9:A9:144:ASP:O	9:A9:147:UNK:HG3	1.57	1.02
10:AA:1748:U:O2'	10:AA:1750:A:H2	1.38	1.02
14:AE:154:THR:HG22	14:AE:155:ILE:N	1.69	1.02
34:AY:5:ILE:HG12	34:AY:111:LEU:HB2	1.40	1.02
34:AY:160:VAL:HG12	34:AY:161:ILE:H	1.19	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:18:THR:HG22	1:B1:19:GLY:H	1.24	1.02
10:BA:1245:G:H4'	10:BA:1246:C:H5"	1.40	1.02
13:BD:40:ARG:HG3	13:BD:41:GLU:H	1.18	1.02
10:AA:604:G:N1	10:AA:1080:G:N2	2.07	1.02
12:AC:35:ALA:HB2	12:AC:60:GLN:HB2	1.41	1.02
14:AE:231:TRP:HE1	17:AH:68:ARG:CZ	1.72	1.02
2:B2:18:MET:HG2	2:B2:19:PRO:HD2	1.38	1.02
9:B9:144:ASP:O	9:B9:147:UNK:HG3	1.59	1.02
18:AI:26:PRO:HA	18:AI:65:LEU:HD22	1.41	1.02
22:AM:1:MET:HG2	22:AM:2:SER:H	1.19	1.02
35:AZ:40:PHE:HB2	35:AZ:43:ASP:HB2	1.37	1.02
10:AA:125:U:H4'	10:AA:126:A:H5"	1.37	1.01
20:AK:21:VAL:HG12	20:AK:22:GLY:H	1.24	1.01
21:AL:116:ILE:HG21	21:AL:119:VAL:HB	1.41	1.01
5:B5:30:VAL:HG11	5:B5:35:ALA:HB2	1.40	1.01
3:A3:103:LYS:HD2	10:AA:633:U:H3'	1.40	1.01
9:A9:159:UNK:HA	9:A9:162:UNK:HG3	1.41	1.01
11:AB:5:ARG:HA	11:AB:5:ARG:HH11	1.26	1.01
9:A9:143:ILE:HB	9:A9:146:UNK:HB1	1.42	1.01
9:B9:159:UNK:HA	9:B9:162:UNK:HG3	1.42	1.01
11:BB:5:ARG:HH11	11:BB:5:ARG:HA	1.26	1.01
10:AA:145:G:N2	10:AA:157:G:H21	1.57	1.01
10:BA:4:C:OP2	14:BE:201:SER:HB3	1.61	1.01
2:A2:18:MET:HG2	2:A2:19:PRO:HD2	1.42	1.00
10:AA:797:A:H2'	10:AA:798:G:O4'	1.57	1.00
22:AM:146:VAL:HG12	22:AM:147:VAL:H	1.21	1.00
24:AO:100:ILE:HG21	24:AO:117:LEU:HB2	1.41	1.00
14:BE:154:THR:CG2	14:BE:155:ILE:H	1.71	1.00
20:BK:21:VAL:HG12	20:BK:22:GLY:H	1.26	1.00
31:BV:61:ILE:HG12	31:BV:66:VAL:HG21	1.37	1.00
10:AA:1245:G:H4'	10:AA:1246:C:H5"	1.38	1.00
30:AU:56:VAL:HG12	30:AU:60:LYS:HE3	1.43	1.00
5:B5:37:LYS:O	5:B5:38:ARG:HG3	1.58	1.00
21:BL:19:ARG:HA	21:BL:19:ARG:HH11	1.26	1.00
10:AA:1570:U:H2'	10:AA:1571:C:H5"	1.41	1.00
10:AA:1740:C:OP2	20:AK:146:ARG:HB2	1.60	1.00
27:AR:146:ASN:HD22	27:AR:150:GLU:HB2	1.25	1.00
10:BA:1511:A:H5"	22:BM:40:ARG:NH1	1.76	1.00
1:B1:9:ALA:HB2	1:B1:31:LEU:HD23	1.40	1.00
22:BM:93:LYS:HE3	22:BM:93:LYS:HA	1.43	1.00
3:B3:103:LYS:HD2	10:BA:633:U:H3'	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:56:LYS:HA	14:BE:56:LYS:HE3	1.42	1.00
22:BM:146:VAL:HG12	22:BM:147:VAL:H	1.24	1.00
16:BG:54:LYS:HG2	16:BG:55:LYS:H	1.25	1.00
9:B9:143:ILE:HB	9:B9:146:UNK:HB1	1.43	0.99
10:BA:145:G:N2	10:BA:157:G:H21	1.60	0.99
27:BR:146:ASN:HD22	27:BR:150:GLU:HB2	1.26	0.99
10:BA:1511:A:H5"	22:BM:40:ARG:HH12	1.23	0.99
11:BB:25:LEU:HD22	11:BB:33:ILE:HD13	1.44	0.99
22:AM:26:ARG:HG3	22:AM:27:ILE:H	1.23	0.99
34:AY:26:ILE:O	34:AY:30:LYS:HE3	1.62	0.99
14:BE:231:TRP:HE1	17:BH:68:ARG:CZ	1.74	0.99
13:AD:81:PHE:HZ	13:AD:88:GLU:HG3	1.27	0.99
21:AL:19:ARG:HA	21:AL:19:ARG:HH11	1.20	0.99
10:BA:1072:G:H4'	10:BA:1073:G:OP1	1.58	0.99
1:A1:18:THR:HG22	1:A1:19:GLY:H	1.28	0.99
10:AA:407:A:H4'	10:AA:408:C:OP2	1.62	0.99
13:BD:53:ARG:NH1	14:BE:176:GLY:HA3	1.77	0.99
18:BI:129:LYS:HG2	18:BI:130:LYS:H	1.25	0.99
5:A5:37:LYS:O	5:A5:38:ARG:HG3	1.61	0.99
22:BM:26:ARG:HG3	22:BM:27:ILE:H	1.23	0.99
3:B3:93:PHE:HZ	3:B3:166:LYS:HB3	1.25	0.99
10:BA:133:A:H4'	10:BA:134:C:C5'	1.92	0.99
10:BA:1570:U:H2'	10:BA:1571:C:H5"	1.40	0.99
10:AA:1605:A:H4'	10:AA:1606:C:O5'	1.63	0.98
5:B5:46:ASP:HB2	5:B5:47:PRO:HD2	1.42	0.98
16:AG:54:LYS:HG2	16:AG:55:LYS:H	1.28	0.98
1:A1:12:MET:HB3	1:A1:28:ARG:HG2	1.41	0.98
10:AA:955:A:C2'	10:AA:956:A:H5'	1.93	0.98
5:B5:77:ILE:O	5:B5:81:ILE:HD12	1.64	0.98
34:BY:26:ILE:O	34:BY:30:LYS:HE3	1.61	0.98
6:B6:6:LEU:HD21	17:BH:62:VAL:HG21	1.46	0.98
10:BA:955:A:C2'	10:BA:956:A:H5'	1.94	0.98
21:BL:19:ARG:HA	21:BL:19:ARG:NH1	1.78	0.98
3:A3:132:LEU:HB3	3:A3:133:PRO:HD3	1.44	0.98
10:AA:133:A:H4'	10:AA:134:C:C5'	1.94	0.97
13:AD:94:ASP:HB3	14:AE:149:ILE:HD11	1.44	0.97
18:BI:26:PRO:HA	18:BI:65:LEU:HD22	1.43	0.97
5:A5:46:ASP:HB2	5:A5:47:PRO:HD2	1.43	0.97
10:AA:500:U:C2'	10:AA:501:U:H5"	1.94	0.97
11:AB:25:LEU:HD22	11:AB:33:ILE:HD13	1.45	0.97
16:AG:37:THR:HG22	16:AG:39:LYS:H	1.30	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BK:54:VAL:HG11	20:BK:81:VAL:HG13	1.44	0.97
10:AA:1430:C:H5"	22:AM:138:THR:HG21	1.43	0.97
10:BA:500:U:C2'	10:BA:501:U:H5"	1.94	0.97
13:BD:81:PHE:HZ	13:BD:88:GLU:HG3	1.28	0.97
10:AA:145:G:H1	10:AA:157:G:N2	1.61	0.97
14:AE:56:LYS:HA	14:AE:56:LYS:HE3	1.43	0.97
8:B8:95:LYS:HG2	8:B8:105:TYR:CE2	1.99	0.97
10:BA:796:U:H2'	10:BA:797:A:H5'	1.43	0.97
10:AA:626:U:H4'	21:AL:11:ALA:HB2	1.45	0.97
10:BA:626:U:H4'	21:BL:11:ALA:HB2	1.46	0.97
13:BD:129:ILE:HG22	13:BD:134:ILE:HD12	1.47	0.97
2:A2:22:ARG:HH11	2:A2:25:ARG:HH12	1.11	0.97
27:AR:340:THR:HG22	27:AR:341:SER:H	1.25	0.97
3:B3:132:LEU:HB3	3:B3:133:PRO:HD3	1.46	0.97
30:BU:56:VAL:HG12	30:BU:60:LYS:HE3	1.41	0.97
6:B6:9:ILE:HB	6:B6:12:GLU:HG2	1.46	0.97
21:BL:9:ILE:H	21:BL:9:ILE:CD1	1.71	0.97
10:AA:669:G:C2'	10:AA:670:G:H5"	1.93	0.97
10:BA:669:G:C2'	10:BA:670:G:H5"	1.95	0.97
10:BA:695:G:H1	10:BA:707:U:H3	1.13	0.97
16:BG:37:THR:HG22	16:BG:39:LYS:H	1.25	0.97
10:AA:1720:G:H3'	10:AA:1720:G:OP2	1.65	0.96
14:AE:228:PRO:HB3	17:AH:68:ARG:HH21	1.28	0.96
20:AK:65:ASP:O	20:AK:68:GLU:HG2	1.64	0.96
4:B4:48:THR:HG22	4:B4:49:LEU:H	1.27	0.96
27:BR:267:LEU:HD12	27:BR:267:LEU:H	1.30	0.96
10:AA:766:G:O6	25:AP:9:LYS:HA	1.66	0.96
5:A5:77:ILE:O	5:A5:81:ILE:HD12	1.64	0.96
4:B4:63:ILE:HG22	4:B4:66:ARG:HG3	1.45	0.96
4:A4:48:THR:HG22	4:A4:49:LEU:H	1.27	0.96
14:BE:154:THR:HG22	14:BE:155:ILE:N	1.71	0.96
10:BA:133:A:H4'	10:BA:134:C:H5'	1.45	0.96
10:BA:616:A:H4'	10:BA:617:A:H5'	1.47	0.96
10:BA:145:G:H1	10:BA:157:G:N2	1.63	0.96
10:BA:407:A:H4'	10:BA:408:C:OP2	1.63	0.96
30:BU:79:LEU:HD22	30:BU:103:LEU:HD11	1.46	0.96
10:AA:796:U:H2'	10:AA:797:A:H5'	1.43	0.96
30:AU:86:PHE:HB3	30:AU:97:VAL:HG22	1.47	0.96
3:A3:144:ARG:HH22	35:AZ:3:SER:HB2	1.31	0.96
10:AA:309:U:H2'	10:AA:310:C:H5"	1.48	0.96
8:A8:95:LYS:HG2	8:A8:105:TYR:CE2	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:415:G:H4'	10:AA:416:C:OP1	1.62	0.96
10:AA:1746:G:O2'	10:AA:1747:A:H5"	1.65	0.96
13:AD:17:ARG:HH22	14:AE:183:PRO:HD3	1.30	0.96
19:BJ:49:GLU:HB2	19:BJ:92:THR:CB	1.95	0.96
3:B3:60:ALA:CB	3:B3:91:ILE:HB	1.96	0.96
10:AA:4:C:OP2	14:AE:201:SER:HB3	1.66	0.95
14:AE:154:THR:CG2	14:AE:155:ILE:H	1.69	0.95
27:BR:94:SER:HB3	27:BR:124:VAL:HG23	1.46	0.95
27:AR:267:LEU:H	27:AR:267:LEU:HD12	1.30	0.95
10:BA:415:G:H4'	10:BA:416:C:OP1	1.64	0.95
10:BA:881:U:H2'	10:BA:882:G:H5"	1.47	0.95
10:AA:892:G:HO2'	10:AA:893:A:H8	1.00	0.95
10:AA:494:A:H3'	10:AA:495:C:H5"	1.48	0.95
20:BK:65:ASP:O	20:BK:68:GLU:HG2	1.64	0.95
21:BL:9:ILE:HD12	21:BL:9:ILE:N	1.79	0.95
10:AA:561:A:H1'	33:AX:14:VAL:HG23	1.46	0.95
13:AD:129:ILE:HG22	13:AD:134:ILE:HD12	1.47	0.95
10:BA:681:G:H22	10:BA:719:G:N2	1.64	0.95
10:BA:338:G:H5"	26:BQ:84:ILE:HD11	1.46	0.95
30:AU:79:LEU:HD22	30:AU:103:LEU:HD11	1.48	0.95
16:BG:117:ARG:HD2	16:BG:193:GLU:OE2	1.67	0.95
3:A3:60:ALA:CB	3:A3:91:ILE:HB	1.97	0.95
10:AA:135:A:H3'	34:AY:183:ILE:HD11	1.46	0.95
10:AA:616:A:H4'	10:AA:617:A:H5'	1.48	0.94
10:AA:681:G:H22	10:AA:719:G:N2	1.64	0.94
10:AA:905:C:O2	20:AK:138:ASP:HB3	1.65	0.94
13:AD:8:THR:HG22	13:AD:9:SER:H	1.31	0.94
10:AA:1745:G:H4'	10:AA:1746:G:OP2	1.68	0.94
29:BT:43:THR:OG1	29:BT:50:ALA:HA	1.67	0.94
31:BV:21:TYR:HB3	31:BV:74:GLN:OE1	1.67	0.94
4:A4:193:ASN:HB3	4:A4:199:TYR:CE1	2.02	0.94
5:B5:21:VAL:HG11	5:B5:74:GLN:OE1	1.68	0.94
8:A8:58:SER:HB3	8:A8:111:VAL:HG13	1.47	0.94
10:AA:49:C:O2'	10:AA:50:A:H5"	1.68	0.94
10:AA:133:A:H4'	10:AA:134:C:H5'	1.48	0.94
4:B4:89:LEU:HB3	4:B4:101:THR:HG21	1.49	0.94
10:BA:1720:G:OP2	10:BA:1720:G:H3'	1.66	0.94
10:AA:77:G:H5'	10:AA:77:G:H8	1.33	0.94
10:AA:1137:A:H4'	16:AG:73:PHE:HE2	1.31	0.94
10:BA:494:A:H3'	10:BA:495:C:H5"	1.49	0.94
13:BD:8:THR:HG22	13:BD:9:SER:H	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:132:LYS:HE2	34:AY:163:ARG:HD3	1.48	0.94
10:AA:237:U:H3'	10:AA:238:G:H5"	1.50	0.94
16:AG:117:ARG:HD2	16:AG:193:GLU:OE2	1.68	0.94
8:B8:58:SER:HB3	8:B8:111:VAL:HG13	1.49	0.94
10:BA:892:G:HO2'	10:BA:893:A:H8	0.99	0.94
10:BA:905:C:O2	20:BK:138:ASP:HB3	1.67	0.94
10:BA:1746:G:O2'	10:BA:1747:A:H5"	1.66	0.94
34:BY:132:LYS:HE2	34:BY:163:ARG:HD3	1.50	0.94
10:AA:1302:G:H21	31:AV:6:THR:HG21	1.31	0.94
27:AR:94:SER:HB3	27:AR:124:VAL:HG23	1.48	0.94
8:B8:96:VAL:HG21	16:BG:97:LEU:HD11	1.48	0.94
10:BA:673:A:H2'	10:BA:675:A:H62	1.32	0.94
14:AE:166:VAL:O	14:AE:167:ARG:HD2	1.68	0.93
6:A6:9:ILE:HB	6:A6:12:GLU:HG2	1.48	0.93
10:AA:886:U:H3'	10:AA:887:U:C5'	1.98	0.93
31:AV:29:HIS:HA	31:AV:32:LYS:HD3	1.48	0.93
10:BA:77:G:H5'	10:BA:77:G:H8	1.30	0.93
10:BA:210:A:H4'	10:BA:211:U:OP2	1.68	0.93
22:BM:125:LEU:O	22:BM:129:TRP:HD1	1.51	0.93
26:BQ:85:ILE:HD11	26:BQ:122:LEU:HD13	1.49	0.93
5:A5:21:VAL:HG11	5:A5:74:GLN:OE1	1.68	0.93
10:AA:210:A:H4'	10:AA:211:U:OP2	1.67	0.93
22:AM:93:LYS:HA	22:AM:93:LYS:HE3	1.48	0.93
10:AA:479:G:H5'	10:AA:480:A:OP2	1.68	0.93
10:AA:1748:U:O2'	10:AA:1750:A:C2	2.22	0.93
10:BA:1443:A:H4'	10:BA:1444:U:C5'	1.99	0.93
10:AA:858:C:H3'	10:AA:859:A:H5"	1.51	0.93
9:B9:146:UNK:O	9:B9:150:UNK:HG3	1.68	0.93
10:AA:604:G:H1	10:AA:1080:G:H22	1.04	0.93
10:AA:754:A:H2'	10:AA:755:G:C8	2.02	0.93
10:BA:309:U:H2'	10:BA:310:C:H5"	1.51	0.93
21:BL:69:LYS:HZ2	21:BL:69:LYS:HB3	1.34	0.93
4:A4:135:GLY:O	4:A4:227:PRO:HD2	1.68	0.93
4:B4:193:ASN:HB3	4:B4:199:TYR:CE1	2.03	0.93
8:B8:57:PRO:HB3	8:B8:87:MET:HE1	1.49	0.93
10:AA:881:U:H2'	10:AA:882:G:H5"	1.47	0.93
17:AH:2:VAL:HG12	17:AH:3:LYS:H	1.33	0.93
10:AA:83:C:C2'	10:AA:84:U:H5"	1.98	0.93
13:BD:135:LYS:HD2	13:BD:159:ALA:HB3	1.48	0.93
10:BA:667:C:H2'	10:BA:668:U:O4'	1.68	0.92
10:BA:886:U:H3'	10:BA:887:U:C5'	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1174:A:H2'	10:BA:1175:A:H5'	1.51	0.92
5:A5:30:VAL:CG1	5:A5:35:ALA:HB2	1.97	0.92
10:AA:1359:C:OP1	31:AV:45:ARG:HG3	1.68	0.92
26:AQ:66:ARG:HH11	26:AQ:66:ARG:HG3	1.34	0.92
10:BA:1322:U:H5"	18:BI:70:ARG:NH1	1.83	0.92
10:AA:1007:U:H3'	10:AA:1008:A:H5'	1.50	0.92
10:BA:237:U:H3'	10:BA:238:G:H5"	1.49	0.92
10:BA:422:G:H5'	10:BA:422:G:H8	1.32	0.92
10:BA:478:G:H21	10:BA:494:A:H62	1.16	0.92
10:BA:1022:U:H3	10:BA:1046:G:H1	1.14	0.92
4:A4:89:LEU:HB3	4:A4:101:THR:HG21	1.51	0.92
10:AA:478:G:H2'	10:AA:479:G:H1'	1.49	0.92
10:AA:1608:C:H4'	10:AA:1609:C:C5'	1.99	0.92
31:BV:29:HIS:HA	31:BV:32:LYS:HD3	1.49	0.92
5:A5:15:ARG:HD3	5:A5:15:ARG:H	1.33	0.92
22:AM:125:LEU:O	22:AM:129:TRP:HD1	1.53	0.92
22:BM:1:MET:HG2	22:BM:2:SER:N	1.82	0.92
29:BT:77:SER:HA	29:BT:80:LYS:HE3	1.49	0.92
3:B3:136:LEU:HD23	3:B3:136:LEU:H	1.32	0.92
4:B4:135:GLY:O	4:B4:227:PRO:HD2	1.69	0.92
5:B5:30:VAL:CG1	5:B5:35:ALA:HB2	1.99	0.92
10:BA:1480:U:O2'	10:BA:1481:A:H5'	1.69	0.92
27:BR:184:ALA:H	27:BR:206:ARG:HH22	1.17	0.92
9:A9:146:UNK:O	9:A9:150:UNK:HG3	1.68	0.92
10:AA:1301:A:O2'	10:AA:1302:G:H5'	1.68	0.92
10:AA:1613:C:O4'	10:AA:1715:A:H2	1.53	0.92
12:AC:15:VAL:HG11	23:AN:34:GLU:HB3	1.50	0.92
19:AJ:49:GLU:HB2	19:AJ:92:THR:CB	1.98	0.92
26:AQ:27:THR:HG22	26:AQ:28:SER:H	1.34	0.92
10:AA:673:A:H2'	10:AA:675:A:H62	1.32	0.92
26:AQ:63:LEU:HD11	26:AQ:127:CYS:HB2	1.50	0.92
10:BA:561:A:H1'	33:BX:14:VAL:HG23	1.48	0.92
10:BA:754:A:H2'	10:BA:755:G:C8	2.05	0.92
16:AG:46:HIS:O	18:AI:49:LYS:HE3	1.69	0.92
29:AT:77:SER:HA	29:AT:80:LYS:HE3	1.50	0.92
10:BA:479:G:H5'	10:BA:480:A:OP2	1.69	0.92
14:BE:41:LYS:O	14:BE:42:ILE:HG12	1.69	0.92
2:A2:194:LYS:HE2	26:AQ:4:GLN:CD	1.95	0.91
16:AG:72:MET:HE1	16:AG:81:LYS:HB2	1.52	0.91
22:AM:82:PRO:HD3	29:AT:40:TRP:CZ2	2.06	0.91
10:BA:858:C:H3'	10:BA:859:A:H5"	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1443:A:H4'	10:AA:1444:U:C5'	1.99	0.91
9:B9:156:UNK:O	9:B9:159:UNK:HG3	1.70	0.91
10:BA:49:C:O2'	10:BA:50:A:H5"	1.67	0.91
12:AC:77:GLN:HA	12:AC:81:GLY:HA2	1.51	0.91
13:AD:31:ILE:HA	13:AD:36:LEU:HD12	1.52	0.91
8:B8:57:PRO:HB3	8:B8:87:MET:CE	2.00	0.91
10:BA:83:C:C2'	10:BA:84:U:H5"	2.00	0.91
10:BA:564:A:N1	21:BL:115:ASP:HB2	1.84	0.91
10:BA:1748:U:O2'	10:BA:1750:A:C2	2.23	0.91
10:BA:478:G:H2'	10:BA:479:G:H1'	1.51	0.91
10:BA:506:U:OP2	13:BD:169:GLU:HG3	1.70	0.91
11:BB:98:ARG:HH12	11:BB:101:PRO:HD2	1.34	0.91
12:BC:35:ALA:HB2	12:BC:60:GLN:CB	2.01	0.91
14:BE:230:PHE:HB3	35:BZ:13:MET:HE2	1.52	0.91
22:BM:1:MET:CG	22:BM:2:SER:H	1.81	0.91
14:AE:231:TRP:NE1	17:AH:68:ARG:HG3	1.85	0.91
33:AX:7:THR:HG21	33:AX:10:LYS:HB2	1.53	0.91
10:AA:215:A:H62	10:AA:811:U:H3	1.14	0.91
10:AA:342:U:H4'	10:AA:343:C:OP2	1.71	0.91
29:AT:43:THR:OG1	29:AT:50:ALA:HA	1.70	0.91
33:BX:7:THR:HG21	33:BX:10:LYS:HB2	1.51	0.91
8:A8:32:LYS:HB2	15:BF:43:ASP:N	1.86	0.91
10:AA:761:U:N3	25:AP:7:THR:HG23	1.85	0.91
14:AE:180:VAL:HG23	14:AE:198:TYR:HA	1.52	0.91
14:BE:231:TRP:NE1	17:BH:68:ARG:HG3	1.84	0.91
16:BG:123:ILE:HD12	16:BG:132:GLN:OE1	1.69	0.91
10:BA:245:A:O2'	10:BA:246:U:H3'	1.71	0.91
10:BA:1465:C:C2'	10:BA:1466:C:H5"	2.01	0.91
10:BA:1748:U:HO2'	10:BA:1750:A:H2	0.98	0.91
12:BC:77:GLN:HA	12:BC:81:GLY:HA2	1.50	0.91
16:BG:46:HIS:O	18:BI:49:LYS:HE3	1.70	0.91
6:A6:6:LEU:HD21	17:AH:62:VAL:HG21	1.52	0.91
11:AB:1:MET:HE1	31:AV:111:TYR:HA	1.53	0.91
3:B3:103:LYS:CD	10:BA:633:U:H3'	2.00	0.91
10:BA:181:G:H3'	10:BA:182:U:H5'	1.53	0.91
11:BB:56:ALA:O	11:BB:60:ILE:HG13	1.71	0.91
16:BG:57:ARG:HA	16:BG:57:ARG:NH1	1.85	0.91
20:BK:95:ILE:HD12	20:BK:129:ILE:HG23	1.52	0.91
3:A3:103:LYS:HA	3:A3:113:ARG:NH1	1.86	0.91
10:AA:245:A:O2'	10:AA:246:U:H3'	1.71	0.91
10:AA:552:C:H4'	33:AX:66:LYS:HE2	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1751:U:H4'	10:AA:1752:U:OP1	1.70	0.91
3:B3:44:GLN:HE22	3:B3:46:LYS:HE3	1.35	0.91
16:BG:92:PHE:HD1	16:BG:103:PRO:HB2	1.36	0.91
8:A8:57:PRO:HB3	8:A8:87:MET:HE1	1.51	0.90
10:AA:311:U:H5'	10:AA:312:C:H5'	1.52	0.90
10:AA:1556:G:H3'	18:AI:125:ARG:O	1.69	0.90
4:B4:108:ILE:HG22	4:B4:109:THR:H	1.34	0.90
34:BY:165:PHE:HE1	34:BY:173:ARG:HB2	1.36	0.90
4:A4:193:ASN:HB3	4:A4:199:TYR:HE1	1.35	0.90
10:AA:85:G:H8	10:AA:85:G:H5'	1.36	0.90
10:AA:145:G:H22	10:AA:157:G:N2	1.68	0.90
6:B6:34:LYS:HG2	6:B6:41:ILE:HG12	1.52	0.90
19:BJ:95:VAL:HG22	19:BJ:116:MET:HE1	1.53	0.90
22:BM:6:GLU:HB2	22:BM:10:ASP:HB2	1.54	0.90
10:AA:795:A:H4'	10:AA:796:U:O5'	1.71	0.90
18:AI:31:LEU:HD13	18:AI:38:ILE:HD11	1.54	0.90
22:AM:6:GLU:HB2	22:AM:10:ASP:HB2	1.52	0.90
4:B4:207:THR:CG2	4:B4:213:LEU:HG	2.01	0.90
17:BH:2:VAL:HG12	17:BH:3:LYS:H	1.36	0.90
31:BV:58:MET:HE2	31:BV:58:MET:HA	1.53	0.90
10:BA:1176:A:H5'	10:BA:1177:C:OP2	1.70	0.90
16:AG:57:ARG:HA	16:AG:57:ARG:NH1	1.86	0.90
21:AL:9:ILE:HD12	21:AL:9:ILE:N	1.84	0.90
13:BD:109:LEU:HB2	13:BD:146:PHE:HB3	1.54	0.90
2:A2:110:VAL:HG12	2:A2:111:GLU:H	1.35	0.90
10:BA:754:A:H5"	13:BD:7:ASN:HB2	1.52	0.90
10:BA:1137:A:H4'	16:BG:73:PHE:HE2	1.35	0.90
3:A3:136:LEU:HD23	3:A3:136:LEU:H	1.33	0.90
10:AA:1081:G:H8	10:AA:1081:G:H5'	1.34	0.90
10:AA:1263:G:H22	10:AA:1296:G:H1	1.16	0.90
11:AB:56:ALA:O	11:AB:60:ILE:HG13	1.72	0.90
13:AD:106:GLU:HA	13:AD:111:THR:HG21	1.53	0.90
13:AD:135:LYS:HD2	13:AD:159:ALA:HB3	1.50	0.90
4:B4:193:ASN:HB3	4:B4:199:TYR:HE1	1.36	0.90
5:B5:15:ARG:HD3	5:B5:15:ARG:H	1.35	0.90
17:BH:97:ARG:HH11	17:BH:97:ARG:HA	1.36	0.90
32:BW:109:GLY:HA2	32:BW:191:ILE:HD11	1.52	0.90
10:AA:1174:A:H2'	10:AA:1175:A:H5'	1.51	0.90
14:AE:61:ILE:HD12	14:AE:134:LYS:HB3	1.54	0.90
27:AR:184:ALA:H	27:AR:206:ARG:HH22	1.20	0.90
10:BA:1608:C:H4'	10:BA:1609:C:C5'	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BH:18:GLU:HG3	17:BH:69:ILE:HB	1.52	0.90
27:BR:285:THR:HG22	27:BR:286:GLN:H	1.37	0.90
10:AA:26:U:H2'	10:AA:27:A:H5"	1.53	0.90
11:AB:98:ARG:HH12	11:AB:101:PRO:HD2	1.36	0.90
1:B1:62:ARG:NH2	16:BG:200:ARG:HB2	1.87	0.90
6:B6:18:LYS:HZ2	10:BA:936:U:H5"	1.37	0.90
10:BA:47:C:O2'	10:BA:48:C:H5'	1.71	0.90
4:A4:108:ILE:HG22	4:A4:109:THR:H	1.34	0.89
2:B2:22:ARG:HH11	2:B2:25:ARG:HH12	1.13	0.89
10:BA:1482:C:O2'	29:BT:127:LYS:HD2	1.71	0.89
10:BA:1608:C:C4	10:BA:1718:A:N1	2.40	0.89
14:AE:41:LYS:O	14:AE:42:ILE:HG12	1.71	0.89
20:AK:54:VAL:HG11	20:AK:81:VAL:HG13	1.50	0.89
14:BE:166:VAL:O	14:BE:167:ARG:HD2	1.72	0.89
10:AA:235:A:H4'	10:AA:236:U:O4'	1.73	0.89
10:AA:695:G:H1	10:AA:707:U:H3	1.13	0.89
18:AI:40:MET:HE3	29:AT:14:ALA:HA	1.54	0.89
21:AL:9:ILE:H	21:AL:9:ILE:CD1	1.76	0.89
2:B2:198:PHE:CE1	2:B2:202:LYS:HE2	2.08	0.89
10:BA:1301:A:O2'	10:BA:1302:G:H5'	1.72	0.89
10:BA:1745:G:H3'	10:BA:1746:G:H5"	1.53	0.89
4:A4:126:ALA:HB1	4:A4:175:ASN:ND2	1.88	0.89
5:A5:30:VAL:HG21	5:A5:76:CYS:HB2	1.54	0.89
16:AG:123:ILE:HD12	16:AG:132:GLN:OE1	1.72	0.89
20:AK:95:ILE:HD12	20:AK:129:ILE:HG23	1.54	0.89
32:AW:109:GLY:HA2	32:AW:191:ILE:HD11	1.54	0.89
2:B2:42:SER:HA	2:B2:45:ILE:HG13	1.55	0.89
2:B2:110:VAL:HG12	2:B2:111:GLU:H	1.38	0.89
10:BA:1007:U:H3'	10:BA:1008:A:H5'	1.52	0.89
12:BC:125:ILE:H	12:BC:125:ILE:HD12	1.37	0.89
14:BE:228:PRO:HB3	17:BH:68:ARG:HH21	1.36	0.89
9:A9:156:UNK:O	9:A9:159:UNK:HG3	1.72	0.89
10:AA:667:C:H2'	10:AA:668:U:O4'	1.71	0.89
10:BA:342:U:H4'	10:BA:343:C:OP2	1.72	0.89
10:BA:795:A:H4'	10:BA:796:U:O5'	1.69	0.89
10:BA:1302:G:H21	31:BV:6:THR:HG21	1.37	0.89
10:AA:422:G:H8	10:AA:422:G:H5'	1.36	0.89
10:BA:766:G:O2'	10:BA:767:C:H5'	1.73	0.89
10:BA:1278:C:H42	10:BA:1290:G:H1	1.17	0.89
10:BA:1732:U:H5'	10:BA:1732:U:C6	2.08	0.89
12:BC:15:VAL:HG11	23:BN:34:GLU:HB3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:58:ILE:HG21	21:BL:117:PRO:HG3	1.54	0.89
22:BM:119:ILE:HD11	28:BS:115:ASP:HB3	1.54	0.89
32:BW:102:ARG:HG2	32:BW:116:LEU:HD21	1.54	0.89
10:AA:760:G:H22	10:AA:766:G:H1	1.19	0.89
10:AA:1745:G:H3'	10:AA:1746:G:H5"	1.53	0.89
14:AE:231:TRP:HE1	17:AH:68:ARG:NH1	1.70	0.89
10:BA:135:A:H3'	34:BY:183:ILE:HD11	1.53	0.89
10:BA:1081:G:H8	10:BA:1081:G:H5'	1.36	0.89
27:BR:190:VAL:HG21	27:BR:219:LEU:HB3	1.53	0.89
2:A2:198:PHE:CE1	2:A2:202:LYS:HE2	2.08	0.89
10:BA:1556:G:H3'	18:BI:125:ARG:O	1.72	0.89
26:BQ:63:LEU:HD11	26:BQ:127:CYS:HB2	1.51	0.89
2:A2:42:SER:HA	2:A2:45:ILE:HG13	1.54	0.89
4:A4:207:THR:CG2	4:A4:213:LEU:HG	2.02	0.89
10:AA:117:U:H1'	32:AW:33:GLN:O	1.72	0.89
10:AA:564:A:N1	21:AL:115:ASP:HB2	1.88	0.89
10:AA:1244:U:H5'	10:AA:1245:G:OP2	1.72	0.89
27:BR:260:GLN:HG3	27:BR:314:SER:HA	1.54	0.89
10:AA:47:C:O2'	10:AA:48:C:H5'	1.73	0.89
10:AA:1022:U:H3	10:AA:1046:G:H1	1.17	0.89
3:B3:44:GLN:NE2	3:B3:46:LYS:HE3	1.88	0.89
26:BQ:17:LEU:HA	26:BQ:20:LYS:HE2	1.55	0.89
16:AG:34:ALA:HB3	16:AG:63:ILE:HG13	1.55	0.88
19:AJ:95:VAL:HG22	19:AJ:116:MET:HE1	1.54	0.88
21:BL:71:VAL:HG21	21:BL:95:LEU:HD13	1.53	0.88
16:AG:92:PHE:HD1	16:AG:103:PRO:HB2	1.38	0.88
10:BA:90:U:H2'	10:BA:91:G:O4'	1.73	0.88
3:A3:44:GLN:HE22	3:A3:46:LYS:HE3	1.36	0.88
27:AR:190:VAL:HG21	27:AR:219:LEU:HB3	1.54	0.88
2:B2:198:PHE:HE1	2:B2:202:LYS:HE2	1.37	0.88
5:B5:84:ARG:HH12	10:BA:1125:A:H5'	1.36	0.88
10:BA:26:U:H2'	10:BA:27:A:H5"	1.54	0.88
9:A9:150:UNK:HA	9:A9:153:UNK:HG3	1.55	0.88
26:AQ:15:VAL:HG12	26:AQ:17:LEU:HG	1.54	0.88
10:BA:1263:G:H22	10:BA:1296:G:H1	1.20	0.88
6:A6:34:LYS:HG2	6:A6:41:ILE:HG12	1.53	0.88
8:A8:57:PRO:HB3	8:A8:87:MET:CE	2.02	0.88
22:AM:1:MET:HG2	22:AM:2:SER:N	1.87	0.88
30:AU:70:TYR:HE2	30:AU:126:ALA:HB3	1.39	0.88
10:AA:760:G:N2	10:AA:766:G:H22	1.71	0.88
10:BA:760:G:H22	10:BA:766:G:H1	1.17	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1123:G:N2	10:BA:1721:G:O4'	2.07	0.88
13:BD:106:GLU:HA	13:BD:111:THR:HG21	1.54	0.88
10:AA:90:U:H2'	10:AA:91:G:O4'	1.73	0.88
10:AA:145:G:H1	10:AA:157:G:H22	1.18	0.88
10:AA:478:G:H21	10:AA:494:A:H62	1.16	0.88
10:AA:1176:A:H5'	10:AA:1177:C:OP2	1.74	0.88
26:AQ:70:ILE:HG23	26:AQ:87:ARG:NH2	1.88	0.88
10:BA:65:C:C6	34:BY:177:PRO:HB3	2.08	0.88
10:BA:604:G:N1	10:BA:1080:G:N2	2.22	0.88
17:BH:74:VAL:HG12	17:BH:75:ILE:H	1.39	0.88
26:AQ:17:LEU:HA	26:AQ:20:LYS:HE2	1.55	0.88
1:B1:42:ILE:H	1:B1:63:GLU:HG3	1.38	0.88
10:BA:85:G:H5'	10:BA:85:G:H8	1.39	0.88
12:AC:125:ILE:H	12:AC:125:ILE:HD12	1.36	0.88
3:B3:103:LYS:HA	3:B3:113:ARG:NH1	1.89	0.88
10:BA:1430:C:H5"	22:BM:138:THR:HG21	1.54	0.88
16:BG:72:MET:HE1	16:BG:81:LYS:HB2	1.56	0.88
10:AA:1462:U:H5	10:AA:1464:U:C4	1.92	0.87
10:AA:1514:G:HO2'	10:AA:1515:A:H8	1.21	0.87
10:AA:1528:A:H2'	10:AA:1532:U:OP2	1.74	0.87
10:BA:311:U:H5'	10:BA:312:C:H5'	1.54	0.87
14:BE:180:VAL:HG23	14:BE:198:TYR:HA	1.55	0.87
16:BG:34:ALA:HB3	16:BG:63:ILE:HG13	1.54	0.87
10:AA:181:G:H3'	10:AA:182:U:H5'	1.56	0.87
27:AR:282:ASN:OD1	27:AR:284:MET:HG2	1.74	0.87
10:BA:633:U:H4'	10:BA:634:C:H5"	1.56	0.87
10:AA:75:C:H1'	34:AY:178:LYS:HG2	1.55	0.87
10:AA:338:G:H5"	26:AQ:84:ILE:HD11	1.52	0.87
10:BA:1244:U:H5'	10:BA:1245:G:OP2	1.73	0.87
27:BR:138:ALA:HA	27:BR:164:TRP:HB3	1.54	0.87
17:AH:76:SER:HB2	17:AH:77:PRO:HD3	1.57	0.87
10:BA:876:A:H5'	20:BK:60:MET:HE3	1.55	0.87
10:BA:1516:U:O2'	22:BM:149:GLY:HA2	1.75	0.87
23:BN:39:ARG:HG3	23:BN:40:ARG:H	1.38	0.87
26:BQ:15:VAL:HG12	26:BQ:17:LEU:HG	1.56	0.87
4:B4:89:LEU:HB3	4:B4:101:THR:CG2	2.05	0.87
10:BA:1717:C:H5'	10:BA:1717:C:H6	1.39	0.87
16:BG:92:PHE:CD1	16:BG:103:PRO:HB2	2.09	0.87
3:A3:44:GLN:NE2	3:A3:46:LYS:HE3	1.89	0.87
10:AA:455:C:H5'	10:AA:455:C:H6	1.40	0.87
10:AA:1717:C:H5'	10:AA:1717:C:H6	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:109:LEU:HB2	13:AD:146:PHE:HB3	1.55	0.87
10:BA:427:A:H5"	21:BL:49:LYS:HG3	1.57	0.87
10:AA:986:G:OP1	20:AK:149:ARG:NH2	2.08	0.87
10:AA:1028:G:H5'	10:AA:1028:G:H8	1.39	0.87
10:AA:1263:G:N2	10:AA:1296:G:H22	1.73	0.87
10:AA:1480:U:O2'	10:AA:1481:A:H5'	1.75	0.87
21:AL:58:ILE:HG21	21:AL:117:PRO:HG3	1.57	0.87
21:AL:71:VAL:HG21	21:AL:95:LEU:HD13	1.57	0.87
3:B3:93:PHE:CZ	3:B3:166:LYS:HB3	2.10	0.87
10:BA:145:G:H22	10:BA:157:G:N2	1.71	0.87
10:BA:1465:C:H2'	10:BA:1466:C:H5"	1.56	0.87
18:BI:31:LEU:HD13	18:BI:38:ILE:HD11	1.57	0.87
18:BI:99:VAL:HG12	18:BI:100:ASP:H	1.38	0.87
27:BR:131:ARG:HA	27:BR:147:ILE:HG23	1.57	0.87
10:AA:84:U:H2'	10:AA:85:G:C5'	2.03	0.87
19:AJ:56:MET:HG3	19:AJ:57:PRO:HD2	1.56	0.87
34:AY:86:SER:O	34:AY:87:ARG:HB2	1.75	0.87
7:A7:58:ILE:HD13	12:AC:31:SER:HB3	1.54	0.87
10:AA:676:C:H4'	10:AA:677:G:H5'	1.56	0.87
23:AN:33:TYR:HD1	23:AN:33:TYR:O	1.56	0.87
10:BA:235:A:H4'	10:BA:236:U:O4'	1.74	0.87
24:BO:129:ARG:O	24:BO:133:LEU:HG	1.74	0.87
25:BP:19:ARG:HE	25:BP:73:VAL:HG11	1.38	0.87
26:BQ:66:ARG:HH11	26:BQ:66:ARG:HG3	1.37	0.87
4:A4:130:CYS:HB2	4:A4:138:ILE:HD12	1.57	0.86
10:AA:766:G:O2'	10:AA:767:C:H5'	1.73	0.86
22:AM:17:ILE:O	22:AM:21:ASN:HB2	1.75	0.86
31:AV:58:MET:HE2	31:AV:58:MET:HA	1.57	0.86
7:B7:101:SER:HB2	12:BC:90:TRP:HE3	1.35	0.86
10:BA:1072:G:H1'	17:BH:76:SER:OG	1.74	0.86
2:A2:22:ARG:HH11	2:A2:25:ARG:NH1	1.73	0.86
12:AC:119:ARG:HD2	14:AE:123:GLN:NE2	1.90	0.86
13:AD:46:GLN:HG2	13:AD:101:ILE:HD13	1.57	0.86
24:AO:22:ARG:HA	24:AO:67:PHE:CE2	2.10	0.86
4:B4:130:CYS:HB2	4:B4:138:ILE:HD12	1.56	0.86
10:BA:1028:G:H5'	10:BA:1028:G:H8	1.39	0.86
10:BA:1158:U:O4	10:BA:1172:G:N2	2.08	0.86
34:BY:70:ARG:HH21	34:BY:104:PRO:HD3	1.39	0.86
10:AA:633:U:H4'	10:AA:634:C:H5"	1.56	0.86
15:AF:22:ARG:HB2	15:AF:34:THR:HB	1.57	0.86
26:BQ:122:LEU:HD23	26:BQ:123:VAL:N	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:116:LEU:HD12	32:AW:120:GLU:HB2	1.58	0.86
10:AA:66:A:H2'	10:AA:67:G:H5'	1.58	0.86
10:AA:1465:C:C2'	10:AA:1466:C:H5"	2.05	0.86
32:AW:51:ARG:HA	32:AW:51:ARG:HE	1.41	0.86
10:BA:442:U:H5"	32:BW:7:LYS:HE2	1.56	0.86
10:AA:759:G:O6	25:AP:9:LYS:HE2	1.76	0.86
18:AI:99:VAL:HG12	18:AI:100:ASP:H	1.38	0.86
32:AW:161:THR:HG21	32:AW:229:VAL:O	1.76	0.86
10:BA:1325:G:H1	10:BA:1341:U:H3	1.22	0.86
23:BN:33:TYR:HD1	23:BN:33:TYR:O	1.59	0.86
2:B2:77:SER:O	26:BQ:23:LEU:HD11	1.76	0.86
4:B4:126:ALA:HB1	4:B4:175:ASN:ND2	1.90	0.86
10:BA:145:G:H22	10:BA:157:G:H21	0.89	0.86
25:BP:140:SER:HA	25:BP:143:LEU:HD12	1.57	0.86
2:A2:195:GLU:HB3	26:AQ:10:GLN:NE2	1.89	0.86
10:AA:1370:U:C2'	10:AA:1371:A:H5'	2.05	0.86
16:AG:95:ILE:CG2	16:AG:103:PRO:HB3	2.06	0.86
11:BB:1:MET:HB3	11:BB:7:GLN:HE22	1.39	0.86
34:BY:22:LYS:HA	34:BY:25:ASN:ND2	1.91	0.86
10:AA:1278:C:H42	10:AA:1290:G:H1	1.23	0.86
22:AM:27:ILE:HG22	22:AM:29:PRO:HD2	1.57	0.86
6:B6:52:ILE:CD1	6:B6:62:CYS:HB2	2.06	0.86
10:BA:84:U:H2'	10:BA:85:G:C5'	2.05	0.86
10:BA:90:U:OP1	32:BW:3:ARG:HD2	1.75	0.86
12:BC:145:LEU:HD13	12:BC:153:MET:HE2	1.58	0.86
26:BQ:22:LEU:HD23	26:BQ:27:THR:HA	1.56	0.86
2:A2:77:SER:O	26:AQ:23:LEU:HD11	1.76	0.86
4:A4:165:SER:HA	4:A4:168:ARG:HE	1.40	0.86
10:AA:1324:U:O2'	18:AI:4:GLN:HG2	1.76	0.86
18:AI:18:ALA:HA	18:AI:73:GLY:HA3	1.57	0.86
35:AZ:13:MET:HE1	35:AZ:31:LYS:HD3	1.58	0.86
32:BW:161:THR:HG21	32:BW:229:VAL:O	1.74	0.86
6:A6:52:ILE:CD1	6:A6:62:CYS:HB2	2.06	0.85
10:AA:1608:C:C4	10:AA:1718:A:N1	2.44	0.85
17:AH:18:GLU:HG3	17:AH:69:ILE:HB	1.56	0.85
9:B9:126:ALA:HA	10:BA:1224:C:H5'	1.55	0.85
10:BA:604:G:H1	10:BA:1080:G:H22	1.20	0.85
14:BE:57:GLU:HB2	14:BE:60:ILE:HG13	1.56	0.85
17:BH:87:GLU:CD	17:BH:87:GLU:H	1.83	0.85
25:BP:107:GLU:O	25:BP:110:ARG:HB2	1.76	0.85
2:A2:198:PHE:HE1	2:A2:202:LYS:HE2	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:868:U:H2'	10:AA:869:A:H5"	1.58	0.85
17:AH:97:ARG:HA	17:AH:97:ARG:HH11	1.39	0.85
21:AL:69:LYS:HB3	21:AL:69:LYS:HZ2	1.39	0.85
9:B9:150:UNK:HA	9:B9:153:UNK:HG3	1.56	0.85
22:BM:68:LYS:O	22:BM:72:LEU:HB2	1.76	0.85
10:BA:145:G:H1	10:BA:157:G:H22	1.21	0.85
10:BA:681:G:H1	10:BA:719:G:H22	1.22	0.85
10:BA:1172:G:H4'	10:BA:1173:G:H5"	1.59	0.85
13:BD:31:ILE:HA	13:BD:36:LEU:HD12	1.57	0.85
14:BE:36:LEU:CD1	14:BE:248:LEU:HD21	2.06	0.85
26:BQ:68:LYS:HD2	26:BQ:126:GLN:HG2	1.58	0.85
10:BA:676:C:H4'	10:BA:677:G:H5'	1.56	0.85
10:BA:1580:U:O3'	18:BI:75:GLY:HA3	1.75	0.85
10:BA:1745:G:H4'	10:BA:1746:G:OP2	1.75	0.85
10:AA:681:G:N2	10:AA:719:G:H22	1.74	0.85
10:AA:1325:G:H1	10:AA:1341:U:H3	1.22	0.85
27:AR:131:ARG:HA	27:AR:147:ILE:HG23	1.57	0.85
27:AR:285:THR:HG22	27:AR:286:GLN:H	1.41	0.85
34:AY:165:PHE:HE1	34:AY:173:ARG:HB2	1.40	0.85
35:AZ:57:ASN:HB2	35:AZ:59:GLN:CD	2.02	0.85
10:BA:718:A:H2'	10:BA:719:G:H5'	1.59	0.85
12:AC:35:ALA:HB2	12:AC:60:GLN:CB	2.05	0.85
20:AK:28:PHE:O	20:AK:47:LEU:HD21	1.76	0.85
2:B2:202:LYS:O	2:B2:206:LYS:HB2	1.75	0.85
10:BA:393:C:H2'	10:BA:393:C:O2	1.76	0.85
25:BP:23:LEU:HD11	25:BP:71:ALA:HB2	1.57	0.85
1:A1:42:ILE:H	1:A1:63:GLU:HG3	1.40	0.85
4:A4:111:ASP:O	4:A4:115:SER:HB2	1.77	0.85
34:AY:22:LYS:HA	34:AY:25:ASN:ND2	1.92	0.85
10:AA:1172:G:H4'	10:AA:1173:G:H5"	1.57	0.85
27:AR:260:GLN:HG3	27:AR:314:SER:HA	1.58	0.85
10:BA:66:A:H2'	10:BA:67:G:H5'	1.57	0.85
10:BA:1528:A:H2'	10:BA:1532:U:OP2	1.76	0.85
26:BQ:70:ILE:HG23	26:BQ:87:ARG:NH2	1.92	0.85
10:AA:469:A:H2'	10:AA:470:G:H8	1.42	0.85
10:AA:1158:U:O4	10:AA:1172:G:N2	2.10	0.85
32:AW:188:GLY:N	32:AW:191:ILE:HG22	1.92	0.85
1:B1:36:GLU:O	1:B1:37:GLU:HB2	1.76	0.85
10:BA:666:A:O2'	10:BA:667:C:H5'	1.77	0.85
10:BA:1462:U:H5	10:BA:1464:U:C4	1.93	0.85
6:A6:65:THR:HG22	6:A6:66:GLY:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AE:57:GLU:HB2	14:AE:60:ILE:HG13	1.58	0.84
23:AN:39:ARG:HG3	23:AN:40:ARG:H	1.42	0.84
27:AR:15:GLY:HA3	27:AR:65:PHE:HB2	1.57	0.84
35:BZ:57:ASN:HB2	35:BZ:59:GLN:CD	2.01	0.84
4:A4:89:LEU:HB3	4:A4:101:THR:CG2	2.07	0.84
9:A9:159:UNK:HA	9:A9:162:UNK:CG	2.07	0.84
10:AA:1720:G:O2'	10:AA:1721:G:OP2	1.93	0.84
25:AP:140:SER:HA	25:AP:143:LEU:HD12	1.56	0.84
14:BE:35:ARG:HH22	14:BE:252:ALA:N	1.75	0.84
10:AA:1466:C:H5'	10:AA:1466:C:H6	1.42	0.84
10:AA:1580:U:O3'	18:AI:75:GLY:HA3	1.76	0.84
11:AB:49:THR:O	11:AB:53:ILE:HG13	1.77	0.84
20:BK:28:PHE:O	20:BK:47:LEU:HD21	1.77	0.84
27:BR:282:ASN:OD1	27:BR:284:MET:HG2	1.75	0.84
4:A4:207:THR:HG21	4:A4:213:LEU:CG	2.07	0.84
13:AD:133:HIS:HA	13:AD:161:THR:HG21	1.59	0.84
4:B4:108:ILE:CD1	4:B4:219:ARG:HA	2.07	0.84
4:B4:165:SER:HA	4:B4:168:ARG:HE	1.43	0.84
10:BA:760:G:N2	10:BA:766:G:H22	1.74	0.84
14:BE:61:ILE:HD12	14:BE:134:LYS:HB3	1.58	0.84
18:BI:22:ALA:HB2	18:BI:86:ALA:HB1	1.58	0.84
22:BM:82:PRO:HD3	29:BT:40:TRP:CZ2	2.12	0.84
27:BR:15:GLY:HA3	27:BR:65:PHE:HB2	1.58	0.84
2:A2:202:LYS:O	2:A2:206:LYS:HB2	1.78	0.84
3:A3:66:HIS:HE1	10:AA:834:A:H5'	1.40	0.84
10:AA:1212:U:C3'	10:AA:1213:G:H5"	2.08	0.84
12:AC:145:LEU:HD13	12:AC:153:MET:HE2	1.57	0.84
6:B6:44:ILE:HD13	6:B6:52:ILE:HD12	1.59	0.84
10:BA:1263:G:N2	10:BA:1296:G:H22	1.76	0.84
10:AA:26:U:C2'	10:AA:27:A:H5"	2.07	0.84
10:AA:1171:G:H1'	19:AJ:66:ARG:NH1	1.93	0.84
15:AF:36:GLU:HB3	15:AF:70:VAL:HG22	1.57	0.84
22:AM:68:LYS:O	22:AM:72:LEU:HB2	1.78	0.84
10:BA:1340:G:H2'	10:BA:1341:U:H5"	1.58	0.84
10:AA:309:U:C2'	10:AA:310:C:H5"	2.07	0.84
10:AA:1322:U:H5"	18:AI:70:ARG:NH1	1.91	0.84
10:AA:1732:U:H5'	10:AA:1732:U:C6	2.11	0.84
10:AA:955:A:O2'	10:AA:956:A:H5'	1.77	0.84
10:BA:26:U:C2'	10:BA:27:A:H5"	2.08	0.84
13:BD:133:HIS:HA	13:BD:161:THR:HG21	1.60	0.84
30:BU:70:TYR:HE2	30:BU:126:ALA:HB3	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:99:TRP:CZ3	11:AB:103:THR:HB	2.13	0.84
17:AH:74:VAL:HG12	17:AH:75:ILE:H	1.43	0.84
18:AI:44:GLN:HA	18:AI:47:GLN:NE2	1.92	0.84
8:B8:45:ILE:HD11	8:B8:79:LEU:HD21	1.60	0.84
18:BI:18:ALA:HA	18:BI:73:GLY:HA3	1.59	0.84
18:BI:20:ALA:HA	18:BI:71:VAL:HG22	1.60	0.84
30:BU:94:ILE:HG21	30:BU:97:VAL:HB	1.58	0.84
10:AA:16:G:H2'	10:AA:17:C:C6	2.13	0.84
10:AA:90:U:OP1	32:AW:3:ARG:HD2	1.77	0.84
22:AM:119:ILE:HD11	28:AS:115:ASP:HB3	1.60	0.84
5:B5:44:MET:HE2	5:B5:44:MET:HA	1.60	0.84
10:BA:881:U:O2	10:BA:883:A:H5"	1.78	0.84
12:BC:165:GLN:N	12:BC:166:PRO:HD2	1.93	0.84
13:BD:46:GLN:HG2	13:BD:101:ILE:HD13	1.58	0.84
3:A3:93:PHE:HZ	3:A3:166:LYS:HB3	1.42	0.83
10:AA:74:A:N3	34:AY:179:ILE:HD12	1.92	0.83
10:AA:881:U:O2	10:AA:883:A:H5"	1.76	0.83
11:AB:47:GLU:HB2	31:AV:109:LEU:HD11	1.58	0.83
12:AC:205:VAL:HG12	12:AC:206:LYS:N	1.93	0.83
13:AD:53:ARG:HH12	14:AE:176:GLY:HA3	1.36	0.83
25:AP:98:LYS:HD3	25:AP:98:LYS:N	1.91	0.83
14:BE:116:TRP:H	14:BE:132:HIS:HD2	1.26	0.83
15:BF:22:ARG:HB2	15:BF:34:THR:HB	1.58	0.83
26:BQ:70:ILE:HG23	26:BQ:87:ARG:CZ	2.07	0.83
35:BZ:13:MET:HE1	35:BZ:31:LYS:HD3	1.60	0.83
3:A3:103:LYS:HG2	3:A3:113:ARG:HH12	1.44	0.83
9:A9:155:UNK:C	9:A9:158:UNK:HG3	2.07	0.83
10:AA:534:A:H3'	10:AA:535:A:C5'	2.05	0.83
16:AG:92:PHE:CD1	16:AG:103:PRO:HB2	2.13	0.83
10:BA:143:C:OP1	25:BP:118:LYS:HG2	1.78	0.83
10:BA:638:U:H3	10:BA:670:G:H1	1.26	0.83
12:BC:205:VAL:HG12	12:BC:206:LYS:N	1.93	0.83
26:BQ:21:LYS:HE3	26:BQ:31:VAL:HG21	1.60	0.83
4:A4:140:VAL:HG12	4:A4:221:VAL:HG22	1.58	0.83
10:AA:716:G:H2'	10:AA:717:G:H8	1.43	0.83
10:AA:1613:C:O4'	10:AA:1715:A:C2	2.30	0.83
17:AH:104:LEU:HD22	17:AH:125:ILE:HA	1.60	0.83
27:AR:138:ALA:HA	27:AR:164:TRP:HB3	1.59	0.83
15:BF:73:LEU:HD23	15:BF:73:LEU:H	1.42	0.83
14:AE:36:LEU:CD1	14:AE:248:LEU:HD21	2.09	0.83
20:AK:62:VAL:HG12	20:AK:63:LYS:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:155:UNK:C	9:B9:158:UNK:HG3	2.08	0.83
10:BA:716:G:H2'	10:BA:717:G:H8	1.43	0.83
10:AA:75:C:C1'	34:AY:178:LYS:HG2	2.08	0.83
10:AA:561:A:H1'	33:AX:14:VAL:CG2	2.08	0.83
10:AA:1009:U:H4'	10:AA:1010:A:OP2	1.78	0.83
28:AS:105:LYS:HG3	28:AS:106:GLU:HG2	1.61	0.83
34:AY:70:ARG:HH21	34:AY:104:PRO:HD3	1.43	0.83
10:BA:336:U:O2'	10:BA:337:G:C8	2.30	0.83
11:BB:14:LEU:HD11	31:BV:102:THR:HG21	1.60	0.83
34:BY:31:LYS:O	34:BY:34:GLN:HG2	1.78	0.83
1:A1:36:GLU:O	1:A1:37:GLU:HB2	1.76	0.83
10:AA:506:U:OP2	13:AD:169:GLU:HG3	1.78	0.83
10:AA:681:G:H1	10:AA:719:G:H22	1.22	0.83
26:AQ:70:ILE:HG23	26:AQ:87:ARG:CZ	2.08	0.83
3:B3:129:ASP:O	3:B3:132:LEU:HB2	1.79	0.83
10:BA:1370:U:C2'	10:BA:1371:A:H5'	2.07	0.83
19:BJ:56:MET:HG3	19:BJ:57:PRO:HD2	1.61	0.83
31:BV:5:ARG:HB2	31:BV:10:LYS:HE2	1.60	0.83
10:AA:572:U:H4'	10:AA:573:A:C5'	2.08	0.83
16:AG:197:LYS:HD3	16:AG:200:ARG:NH2	1.92	0.83
22:AM:81:ILE:HA	29:AT:40:TRP:CH2	2.13	0.83
26:AQ:122:LEU:HD23	26:AQ:123:VAL:N	1.94	0.83
4:B4:111:ASP:O	4:B4:115:SER:HB2	1.78	0.83
10:BA:681:G:N2	10:BA:719:G:H22	1.75	0.83
8:A8:60:VAL:HB	8:A8:64:LEU:HD21	1.61	0.83
10:AA:1340:G:H2'	10:AA:1341:U:H5"	1.59	0.83
2:B2:22:ARG:HH11	2:B2:25:ARG:NH1	1.76	0.83
3:B3:130:LEU:HD12	3:B3:170:ILE:HG23	1.60	0.83
10:BA:77:G:H5'	10:BA:77:G:C8	2.13	0.83
10:BA:478:G:H21	10:BA:494:A:N6	1.76	0.83
10:BA:552:C:H4'	33:BX:66:LYS:HE2	1.59	0.83
20:BK:62:VAL:HG12	20:BK:63:LYS:H	1.44	0.83
22:BM:27:ILE:HG22	22:BM:29:PRO:HD2	1.60	0.83
25:BP:98:LYS:HD3	25:BP:98:LYS:N	1.94	0.83
34:BY:184:THR:HB	34:BY:185:PRO:HD2	1.60	0.83
3:A3:60:ALA:HB1	3:A3:91:ILE:HB	1.59	0.83
24:AO:129:ARG:O	24:AO:133:LEU:HG	1.77	0.83
4:B4:67:VAL:HG21	10:BA:898:U:H4'	1.59	0.83
10:BA:117:U:H1'	32:BW:33:GLN:O	1.78	0.83
28:BS:105:LYS:HG3	28:BS:106:GLU:HG2	1.60	0.83
32:BW:116:LEU:HD12	32:BW:120:GLU:HB2	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:648:U:H5'	10:AA:649:U:OP2	1.78	0.83
10:AA:666:A:O2'	10:AA:667:C:H5'	1.78	0.83
10:AA:1440:A:H4'	10:AA:1513:G:H4'	1.58	0.83
10:BA:572:U:H4'	10:BA:573:A:C5'	2.09	0.83
10:BA:1212:U:C3'	10:BA:1213:G:H5"	2.09	0.83
15:BF:36:GLU:HB3	15:BF:70:VAL:HG22	1.58	0.83
24:BO:22:ARG:HA	24:BO:67:PHE:CE2	2.13	0.83
4:A4:108:ILE:CD1	4:A4:219:ARG:HA	2.09	0.82
10:AA:145:G:H22	10:AA:157:G:H21	0.86	0.82
32:AW:11:ARG:NH1	32:AW:20:LEU:HD22	1.93	0.82
34:AY:184:THR:HB	34:AY:185:PRO:HD2	1.59	0.82
1:B1:4:GLU:HG2	1:B1:58:MET:HE2	1.60	0.82
4:B4:140:VAL:HG12	4:B4:221:VAL:HG22	1.59	0.82
4:B4:207:THR:HG21	4:B4:213:LEU:CG	2.06	0.82
10:BA:986:G:OP1	20:BK:149:ARG:NH2	2.11	0.82
28:BS:101:VAL:HG21	28:BS:121:LEU:HD11	1.60	0.82
10:AA:834:A:OP1	10:AA:834:A:H3'	1.79	0.82
11:AB:1:MET:HB3	11:AB:7:GLN:HE22	1.43	0.82
21:AL:40:ASN:HB2	21:AL:41:PRO:HD2	1.61	0.82
25:AP:19:ARG:HG3	25:AP:73:VAL:HB	1.61	0.82
5:B5:38:ARG:HH22	5:B5:86:VAL:HG23	1.44	0.82
7:B7:101:SER:HB2	12:BC:90:TRP:CE3	2.13	0.82
10:BA:648:U:H5'	10:BA:649:U:OP2	1.77	0.82
10:BA:1440:A:H4'	10:BA:1513:G:H4'	1.61	0.82
18:BI:14:ARG:HD2	18:BI:125:ARG:HH22	1.43	0.82
10:AA:846:G:H1	10:AA:938:U:H3	1.26	0.82
13:BD:127:VAL:O	13:BD:131:GLN:HG2	1.80	0.82
10:AA:718:A:H2'	10:AA:719:G:H5'	1.59	0.82
10:AA:1580:U:H5"	18:AI:74:SER:HB2	1.61	0.82
14:AE:230:PHE:HB3	35:AZ:13:MET:HE2	1.61	0.82
18:AI:20:ALA:HA	18:AI:71:VAL:HG22	1.59	0.82
3:B3:108:HIS:HB2	3:B3:111:GLN:HB2	1.62	0.82
10:BA:309:U:C2'	10:BA:310:C:H5"	2.08	0.82
24:BO:137:LEU:HD12	24:BO:138:PRO:HD2	1.61	0.82
29:BT:66:ARG:O	29:BT:70:LEU:HD12	1.80	0.82
3:A3:34:LYS:O	3:A3:38:GLU:HG2	1.79	0.82
3:A3:103:LYS:CD	10:AA:633:U:H3'	2.09	0.82
4:A4:26:LEU:HD12	20:AK:84:ARG:NH2	1.95	0.82
10:AA:1465:C:H2'	10:AA:1466:C:H5"	1.60	0.82
12:AC:165:GLN:N	12:AC:166:PRO:HD2	1.94	0.82
34:AY:216:LEU:HD22	34:AY:220:LYS:HE3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:733:G:H1	10:BA:782:A:N6	1.77	0.82
10:BA:1153:U:N3	10:BA:1157:U:H5	1.77	0.82
10:BA:1466:C:H5'	10:BA:1466:C:H6	1.42	0.82
25:BP:15:LEU:HD22	32:BW:71:ASN:HB3	1.59	0.82
27:BR:235:LYS:NZ	27:BR:256:SER:H	1.78	0.82
34:BY:216:LEU:HD22	34:BY:220:LYS:HE3	1.58	0.82
2:A2:52:ARG:HD2	10:AA:1647:U:OP1	1.80	0.82
3:A3:85:GLU:HG2	3:A3:92:VAL:HG23	1.59	0.82
7:A7:101:SER:HB2	12:AC:90:TRP:HE3	1.42	0.82
10:AA:442:U:H5"	32:AW:7:LYS:HE2	1.61	0.82
10:AA:478:G:H21	10:AA:494:A:N6	1.76	0.82
10:AA:798:G:O2'	10:AA:799:G:H5'	1.79	0.82
14:AE:35:ARG:HH22	14:AE:252:ALA:N	1.77	0.82
26:AQ:68:LYS:HD2	26:AQ:126:GLN:HG2	1.61	0.82
2:B2:29:LYS:NZ	10:BA:391:A:N6	2.26	0.82
6:B6:18:LYS:NZ	10:BA:936:U:H5"	1.94	0.82
10:BA:312:C:H4'	10:BA:313:G:O5'	1.79	0.82
15:BF:44:TYR:H	15:BF:44:TYR:HD1	1.27	0.82
9:A9:153:UNK:O	9:A9:156:UNK:HG3	1.79	0.82
10:AA:1293:A:H4'	10:AA:1294:A:O5'	1.79	0.82
17:AH:87:GLU:CD	17:AH:87:GLU:H	1.84	0.82
34:AY:132:LYS:HZ1	34:AY:163:ARG:HB3	1.42	0.82
34:AY:180:GLN:O	34:AY:181:ARG:HB2	1.78	0.82
10:BA:1359:C:H2'	10:BA:1360:U:H4'	1.61	0.82
10:BA:1751:U:H4'	10:BA:1752:U:OP1	1.76	0.82
16:BG:37:THR:HG22	16:BG:39:LYS:N	1.94	0.82
10:AA:427:A:H5"	21:AL:49:LYS:HG3	1.62	0.82
25:AP:19:ARG:HE	25:AP:73:VAL:HG11	1.44	0.82
8:B8:73:LEU:HB2	8:B8:75:VAL:HG23	1.62	0.82
9:B9:159:UNK:HA	9:B9:162:UNK:CG	2.08	0.82
10:BA:141:A:N6	10:BA:142:A:C6	2.48	0.82
10:BA:469:A:H2'	10:BA:470:G:H8	1.40	0.82
10:BA:868:U:H2'	10:BA:869:A:H5"	1.61	0.82
10:BA:1327:U:H3	10:BA:1339:G:H1	1.28	0.82
16:BG:197:LYS:HD3	16:BG:200:ARG:NH2	1.94	0.82
22:BM:17:ILE:O	22:BM:21:ASN:HB2	1.78	0.82
8:A8:57:PRO:HG3	8:A8:92:LEU:HD11	1.62	0.82
10:AA:730:A:H4'	17:AH:80:ASP:OD2	1.79	0.82
10:AA:796:U:H2'	10:AA:797:A:C5'	2.10	0.82
13:BD:28:MET:HE1	33:BX:37:LYS:HD2	1.61	0.82
27:BR:87:GLU:CD	27:BR:87:GLU:H	1.88	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BY:76:LEU:HD21	34:BY:94:ARG:HD2	1.62	0.82
10:AA:97:U:H2'	10:AA:98:U:H5'	1.61	0.82
10:AA:665:A:H2'	10:AA:666:A:C8	2.15	0.82
13:AD:120:ASN:H	13:AD:124:HIS:CD2	1.98	0.82
6:B6:65:THR:HG22	6:B6:66:GLY:H	1.42	0.82
8:B8:65:THR:HG21	16:BG:166:GLU:OE2	1.80	0.82
10:BA:570:G:H4'	10:BA:574:A:N3	1.95	0.82
10:BA:1153:U:H3	10:BA:1157:U:H5	1.28	0.82
14:BE:207:THR:HG22	14:BE:210:ASN:HB2	1.61	0.82
14:AE:145:TRP:HZ3	14:AE:174:PRO:HG3	1.44	0.81
30:AU:89:ASN:HD22	30:AU:89:ASN:C	1.87	0.81
31:AV:5:ARG:HB2	31:AV:10:LYS:HE2	1.61	0.81
10:BA:1359:C:OP1	31:BV:45:ARG:HG3	1.80	0.81
10:BA:1489:U:H3'	10:BA:1490:C:H5'	1.62	0.81
10:BA:1613:C:O4'	10:BA:1715:A:H2	1.60	0.81
25:BP:19:ARG:HG3	25:BP:73:VAL:HB	1.60	0.81
10:AA:607:G:OP2	10:AA:1071:U:H2'	1.81	0.81
10:AA:754:A:H5"	13:AD:7:ASN:HB2	1.61	0.81
3:B3:34:LYS:O	3:B3:38:GLU:HG2	1.80	0.81
3:B3:60:ALA:HB2	3:B3:91:ILE:HB	1.62	0.81
9:B9:153:UNK:O	9:B9:156:UNK:HG3	1.79	0.81
10:BA:1556:G:O2'	10:BA:1557:U:OP2	1.98	0.81
17:BH:59:LYS:H	17:BH:59:LYS:CD	1.93	0.81
18:BI:42:ASN:HB3	18:BI:43:PRO:HD3	1.62	0.81
18:BI:44:GLN:HA	18:BI:47:GLN:NE2	1.92	0.81
4:A4:29:LYS:HB3	4:A4:49:LEU:HD11	1.62	0.81
10:AA:110:A:O2'	10:AA:111:G:OP2	1.96	0.81
10:AA:141:A:N6	10:AA:142:A:C6	2.48	0.81
10:AA:758:A:H2'	10:AA:759:G:H8	1.45	0.81
10:AA:1487:A:H5'	12:AC:10:LYS:CE	2.09	0.81
13:AD:127:VAL:O	13:AD:131:GLN:HG2	1.81	0.81
24:AO:137:LEU:HD12	24:AO:138:PRO:HD2	1.63	0.81
25:AP:23:LEU:HD11	25:AP:71:ALA:HB2	1.63	0.81
27:AR:48:ASP:O	27:AR:49:LYS:HB3	1.81	0.81
32:AW:102:ARG:HG2	32:AW:116:LEU:HD21	1.62	0.81
29:BT:32:LEU:H	29:BT:32:LEU:HD23	1.45	0.81
32:BW:70:GLN:HG3	32:BW:80:ARG:HH21	1.45	0.81
8:A8:45:ILE:HD11	8:A8:79:LEU:HD21	1.61	0.81
10:AA:460:A:OP2	10:AA:460:A:H4'	1.81	0.81
10:AA:650:C:H2'	10:AA:651:G:C8	2.15	0.81
10:AA:1613:C:C1'	10:AA:1715:A:C2	2.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:38:ASN:HB2	13:AD:40:ARG:HG2	1.61	0.81
14:AE:69:LYS:HG2	14:AE:76:LYS:HZ3	1.45	0.81
14:AE:207:THR:HG22	14:AE:210:ASN:HB2	1.61	0.81
14:AE:233:LYS:HG3	14:AE:234:PRO:HD2	1.62	0.81
25:AP:16:LEU:HA	25:AP:83:TYR:HE2	1.45	0.81
10:BA:650:C:H2'	10:BA:651:G:C8	2.15	0.81
5:A5:44:MET:HE2	5:A5:44:MET:HA	1.62	0.81
10:AA:77:G:H5'	10:AA:77:G:C8	2.14	0.81
10:AA:869:A:H5'	10:AA:869:A:H8	1.46	0.81
10:AA:1069:U:H3'	14:AE:160:THR:HG21	1.63	0.81
10:AA:1556:G:O2'	10:AA:1557:U:OP2	1.97	0.81
26:AQ:116:VAL:HG12	26:AQ:117:LYS:N	1.96	0.81
29:AT:64:LEU:O	29:AT:68:VAL:HG23	1.79	0.81
2:B2:57:ARG:HB2	10:BA:324:A:H5'	1.62	0.81
5:B5:30:VAL:HG21	5:B5:76:CYS:HB2	1.60	0.81
34:BY:86:SER:O	34:BY:87:ARG:HB2	1.78	0.81
16:AG:13:LEU:HD23	16:AG:104:LEU:HD21	1.61	0.81
18:AI:22:ALA:HB2	18:AI:86:ALA:HB1	1.62	0.81
27:AR:92:ILE:HG12	27:AR:102:LEU:CD2	2.10	0.81
8:B8:30:TRP:CD1	8:B8:30:TRP:C	2.58	0.81
10:BA:846:G:H1	10:BA:938:U:H3	1.28	0.81
10:BA:1392:A:H4'	12:BC:163:THR:OG1	1.79	0.81
13:BD:45:VAL:HG21	13:BD:105:MET:HE3	1.63	0.81
18:BI:59:GLN:HA	18:BI:62:PHE:HD2	1.45	0.81
18:BI:76:TYR:O	18:BI:80:VAL:HG23	1.80	0.81
18:BI:129:LYS:HG2	18:BI:130:LYS:N	1.96	0.81
27:BR:92:ILE:HG12	27:BR:102:LEU:CD2	2.11	0.81
34:BY:153:PRO:HG2	34:BY:154:ILE:H	1.46	0.81
10:AA:929:A:O2'	10:AA:930:A:H5'	1.81	0.81
10:AA:1359:C:H2'	10:AA:1360:U:H4'	1.61	0.81
22:AM:146:VAL:HG12	22:AM:147:VAL:HG23	1.63	0.81
30:AU:46:VAL:HG11	30:AU:56:VAL:HG13	1.62	0.81
2:B2:195:GLU:HB3	26:BQ:10:GLN:NE2	1.94	0.81
3:B3:103:LYS:HG2	3:B3:113:ARG:HH12	1.46	0.81
10:BA:327:G:H2'	10:BA:328:G:C5'	2.11	0.81
10:AA:1137:A:H4'	16:AG:73:PHE:CE2	2.14	0.81
21:AL:24:TRP:CH2	21:AL:33:LEU:HD13	2.16	0.81
10:BA:110:A:O2'	10:BA:111:G:OP2	1.96	0.81
10:BA:798:G:O2'	10:BA:799:G:H5'	1.81	0.81
10:BA:1009:U:H4'	10:BA:1010:A:OP2	1.79	0.81
21:BL:3:VAL:HG12	21:BL:4:GLY:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BU:46:VAL:HG11	30:BU:56:VAL:HG13	1.62	0.81
14:AE:116:TRP:H	14:AE:132:HIS:HD2	1.27	0.81
16:AG:121:THR:HG22	16:AG:123:ILE:HG13	1.62	0.81
6:B6:42:GLN:HE22	6:B6:55:GLU:H	1.28	0.81
8:B8:57:PRO:HG3	8:B8:92:LEU:HD11	1.63	0.81
10:BA:97:U:H2'	10:BA:98:U:H5'	1.62	0.81
10:BA:455:C:H5'	10:BA:455:C:H6	1.43	0.81
10:BA:758:A:H2'	10:BA:759:G:H8	1.45	0.81
19:BJ:17:VAL:HG11	19:BJ:116:MET:HE2	1.62	0.81
32:BW:51:ARG:HA	32:BW:51:ARG:HE	1.46	0.81
6:A6:18:LYS:HZ2	10:AA:936:U:H5"	1.45	0.81
8:A8:30:TRP:C	8:A8:30:TRP:CD1	2.59	0.81
34:AY:153:PRO:HG2	34:AY:154:ILE:H	1.46	0.81
11:BB:1:MET:HB3	11:BB:7:GLN:NE2	1.95	0.81
14:BE:228:PRO:O	14:BE:231:TRP:HB2	1.81	0.81
32:BW:188:GLY:N	32:BW:191:ILE:HG22	1.95	0.81
10:AA:143:C:OP1	25:AP:118:LYS:HG2	1.79	0.80
10:AA:290:A:O2'	10:AA:291:A:H5'	1.81	0.80
10:AA:391:A:C4'	10:AA:392:A:H5'	2.11	0.80
10:AA:1016:U:O2'	17:AH:20:MET:HG3	1.82	0.80
10:AA:1731:G:H2'	10:AA:1732:U:H5"	1.63	0.80
24:AO:36:VAL:O	24:AO:40:VAL:HG23	1.80	0.80
1:B1:62:ARG:HH22	16:BG:200:ARG:HB2	1.45	0.80
10:BA:533:G:O2'	10:BA:534:A:H5"	1.81	0.80
10:BA:1541:A:H1'	22:BM:147:VAL:HG21	1.62	0.80
10:AA:955:A:H2'	10:AA:956:A:H5'	1.64	0.80
10:AA:1327:U:H3	10:AA:1339:G:H1	1.30	0.80
10:AA:1392:A:H4'	12:AC:163:THR:OG1	1.82	0.80
12:AC:226:GLU:HG2	27:AR:208:THR:HG23	1.62	0.80
14:AE:145:TRP:CZ3	14:AE:174:PRO:HG3	2.17	0.80
3:B3:60:ALA:HB1	3:B3:91:ILE:HB	1.61	0.80
10:BA:444:A:O2'	10:BA:445:U:H5'	1.81	0.80
21:BL:24:TRP:CH2	21:BL:33:LEU:HD13	2.16	0.80
21:BL:75:LEU:HD21	21:BL:82:ILE:HD12	1.63	0.80
27:BR:235:LYS:HE2	27:BR:256:SER:HA	1.63	0.80
10:AA:765:A:O2'	25:AP:12:VAL:HG21	1.81	0.80
14:AE:231:TRP:CH2	17:AH:66:ILE:HG21	2.15	0.80
22:AM:22:ILE:HD11	10:BA:1700:A:H2	1.44	0.80
25:AP:15:LEU:HD22	32:AW:71:ASN:HB3	1.64	0.80
25:AP:56:TYR:CE1	25:AP:70:PHE:HB2	2.16	0.80
6:B6:52:ILE:HD11	6:B6:62:CYS:HB2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:61:TRP:CD2	23:BN:22:VAL:HG13	2.17	0.80
4:A4:35:ARG:HE	4:A4:44:SER:HB3	1.46	0.80
10:AA:327:G:H2'	10:AA:328:G:C5'	2.11	0.80
18:AI:56:LEU:HD23	18:AI:111:LEU:HD23	1.64	0.80
18:AI:59:GLN:HA	18:AI:62:PHE:HD2	1.47	0.80
27:AR:224:ASN:HB3	27:AR:226:LYS:HG3	1.63	0.80
10:BA:630:A:H2'	10:BA:631:C:H5"	1.63	0.80
11:BB:47:GLU:HB2	31:BV:109:LEU:HD11	1.62	0.80
13:BD:40:ARG:HG3	13:BD:41:GLU:N	1.96	0.80
24:BO:36:VAL:O	24:BO:40:VAL:HG23	1.82	0.80
30:BU:69:LYS:HB3	30:BU:124:LEU:HD13	1.64	0.80
3:A3:93:PHE:CZ	3:A3:166:LYS:HB3	2.16	0.80
10:AA:336:U:O2'	10:AA:337:G:C8	2.32	0.80
12:AC:135:LYS:HB3	12:AC:192:MET:HE2	1.64	0.80
21:AL:62:GLN:HB3	21:AL:63:PRO:HD3	1.62	0.80
34:AY:76:LEU:HD21	34:AY:94:ARG:HD2	1.61	0.80
8:B8:60:VAL:HB	8:B8:64:LEU:HD21	1.61	0.80
10:BA:249:A:H4'	32:BW:134:GLY:O	1.79	0.80
10:BA:955:A:H2'	10:BA:956:A:H5'	1.62	0.80
14:BE:141:ARG:HB3	14:BE:222:THR:HG22	1.63	0.80
14:BE:233:LYS:HG3	14:BE:234:PRO:HD2	1.63	0.80
3:A3:65:VAL:HG21	3:A3:73:LEU:HD22	1.62	0.80
3:A3:95:THR:HG22	3:A3:96:ALA:N	1.96	0.80
5:A5:38:ARG:HH22	5:A5:86:VAL:HG23	1.44	0.80
9:A9:159:UNK:CA	9:A9:162:UNK:HG3	2.12	0.80
10:AA:125:U:H4'	10:AA:126:A:C5'	2.12	0.80
10:AA:1745:G:C3'	10:AA:1746:G:H5"	2.10	0.80
22:AM:1:MET:CG	22:AM:2:SER:H	1.84	0.80
27:AR:235:LYS:HE2	27:AR:256:SER:HA	1.62	0.80
31:AV:25:THR:HG22	31:AV:26:ASN:H	1.46	0.80
34:AY:31:LYS:O	34:AY:34:GLN:HG2	1.81	0.80
10:BA:955:A:O2'	10:BA:956:A:H5'	1.81	0.80
14:BE:141:ARG:O	14:BE:222:THR:HG21	1.81	0.80
14:BE:231:TRP:HE1	17:BH:68:ARG:NH1	1.79	0.80
25:BP:85:PRO:HA	32:BW:59:ARG:HH12	1.45	0.80
27:BR:92:ILE:HA	27:BR:101:ARG:O	1.82	0.80
32:BW:11:ARG:NH1	32:BW:20:LEU:HD22	1.96	0.80
33:BX:50:LEU:HD23	33:BX:57:ARG:HH12	1.47	0.80
13:AD:45:VAL:HG21	13:AD:105:MET:HE3	1.62	0.80
27:AR:235:LYS:NZ	27:AR:256:SER:H	1.80	0.80
28:AS:101:VAL:HG21	28:AS:121:LEU:HD11	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:534:A:H3'	10:BA:535:A:C5'	2.07	0.80
10:BA:1171:G:N1	23:BN:29:LEU:HD22	1.97	0.80
10:BA:1745:G:C3'	10:BA:1746:G:H5"	2.11	0.80
16:BG:95:ILE:CG2	16:BG:103:PRO:HB3	2.11	0.80
10:AA:681:G:N2	10:AA:719:G:N2	2.30	0.80
10:AA:1489:U:H3'	10:AA:1490:C:H5'	1.62	0.80
10:AA:1661:G:H3'	10:AA:1661:G:N3	1.95	0.80
11:AB:156:VAL:HG23	35:AZ:80:HIS:HB2	1.62	0.80
12:AC:40:ILE:HG22	12:AC:42:VAL:HG23	1.64	0.80
18:AI:14:ARG:HD2	18:AI:125:ARG:HH22	1.44	0.80
26:AQ:146:ILE:HD13	26:AQ:153:GLN:HG2	1.64	0.80
27:AR:174:MET:HE1	27:AR:178:ASN:HB2	1.62	0.80
10:BA:16:G:H2'	10:BA:17:C:C6	2.16	0.80
16:BG:121:THR:HG22	16:BG:123:ILE:HG13	1.63	0.80
6:A6:44:ILE:HD13	6:A6:52:ILE:HD12	1.62	0.80
10:AA:868:U:H2'	10:AA:869:A:C5'	2.11	0.80
10:AA:1299:C:O2'	10:AA:1300:G:H5'	1.82	0.80
3:B3:85:GLU:HG2	3:B3:92:VAL:HG23	1.61	0.80
10:BA:869:A:H8	10:BA:869:A:H5'	1.47	0.80
12:BC:227:ILE:HD13	27:BR:246:THR:HG23	1.62	0.80
27:BR:49:LYS:HE2	27:BR:74:GLY:H	1.47	0.80
27:BR:184:ALA:H	27:BR:206:ARG:NH2	1.80	0.80
30:BU:89:ASN:ND2	30:BU:90:ALA:H	1.80	0.80
10:AA:650:C:H2'	10:AA:651:G:H8	1.47	0.80
11:AB:45:ASN:HD21	31:AV:109:LEU:HD13	1.46	0.80
13:AD:40:ARG:HG3	13:AD:41:GLU:N	1.96	0.80
27:AR:87:GLU:CD	27:AR:87:GLU:H	1.88	0.80
4:B4:35:ARG:HE	4:B4:44:SER:HB3	1.45	0.80
10:BA:512:C:H2'	10:BA:513:A:H5"	1.64	0.80
10:BA:558:G:O2'	10:BA:571:G:H4'	1.81	0.80
10:BA:834:A:OP1	10:BA:834:A:H3'	1.81	0.80
10:BA:1613:C:C1'	10:BA:1715:A:C2	2.65	0.80
21:BL:40:ASN:HB2	21:BL:41:PRO:HD2	1.62	0.80
22:BM:54:PRO:HG2	22:BM:55:ASN:H	1.47	0.80
10:AA:630:A:H2'	10:AA:631:C:H5"	1.64	0.79
10:AA:1006:C:H4'	10:AA:1007:U:O5'	1.81	0.79
10:AA:1245:G:C4'	10:AA:1246:C:H5"	2.12	0.79
10:BA:224:G:H2'	10:BA:225:C:H5'	1.64	0.79
10:BA:378:A:O2'	10:BA:379:A:OP2	1.99	0.79
10:BA:494:A:H3'	10:BA:495:C:C5'	2.12	0.79
10:BA:553:A:N1	12:BC:181:LYS:HB3	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1299:C:O2'	10:BA:1300:G:H5'	1.81	0.79
13:BD:120:ASN:H	13:BD:124:HIS:CD2	2.00	0.79
14:BE:231:TRP:CH2	17:BH:66:ILE:HG21	2.17	0.79
17:BH:59:LYS:HD3	17:BH:59:LYS:N	1.96	0.79
31:BV:25:THR:HG22	31:BV:26:ASN:H	1.46	0.79
3:A3:108:HIS:HB2	3:A3:111:GLN:HB2	1.62	0.79
3:A3:132:LEU:HB3	3:A3:133:PRO:CD	2.12	0.79
10:AA:494:A:H3'	10:AA:495:C:C5'	2.11	0.79
10:AA:626:U:OP1	26:AQ:101:LYS:HE3	1.81	0.79
14:AE:166:VAL:C	14:AE:167:ARG:HD2	2.07	0.79
32:AW:114:LYS:HA	32:AW:114:LYS:HE3	1.64	0.79
10:BA:1720:G:O2'	10:BA:1721:G:OP2	1.99	0.79
11:BB:99:TRP:CZ3	11:BB:103:THR:HB	2.16	0.79
10:AA:3:C:H6	10:AA:3:C:C5'	1.95	0.79
10:AA:1731:G:C2'	10:AA:1732:U:H5"	2.12	0.79
18:AI:42:ASN:HB3	18:AI:43:PRO:HD3	1.63	0.79
25:AP:107:GLU:O	25:AP:110:ARG:HB2	1.80	0.79
2:B2:154:THR:C	2:B2:156:ALA:H	1.90	0.79
6:B6:48:ALA:HA	24:BO:58:ASP:OD1	1.82	0.79
7:B7:88:ILE:HD13	7:B7:93:LYS:HD2	1.62	0.79
2:A2:115:THR:HB	2:A2:116:PRO:HD3	1.65	0.79
10:AA:262:G:H4'	10:AA:263:A:OP1	1.81	0.79
10:AA:1443:A:H4'	10:AA:1444:U:H5'	1.65	0.79
10:AA:1753:A:OP1	10:AA:1753:A:H8	1.65	0.79
14:AE:107:ASP:C	14:AE:109:ASN:H	1.91	0.79
10:BA:1613:C:O4'	10:BA:1715:A:C2	2.34	0.79
18:BI:8:LEU:HD12	18:BI:9:VAL:H	1.46	0.79
19:BJ:51:LYS:HB2	19:BJ:90:ASP:HB2	1.64	0.79
22:BM:132:LYS:HZ2	22:BM:135:GLY:HA3	1.46	0.79
32:BW:88:LEU:HD11	32:BW:184:TYR:HE2	1.48	0.79
10:AA:393:C:O2	10:AA:393:C:H2'	1.80	0.79
10:AA:517:U:H2'	10:AA:519:A:OP2	1.82	0.79
10:AA:1246:C:OP1	10:AA:1399:G:OP1	2.00	0.79
12:AC:108:MET:HE1	12:AC:122:ALA:HA	1.62	0.79
18:AI:76:TYR:O	18:AI:80:VAL:HG23	1.82	0.79
21:AL:75:LEU:HD21	21:AL:82:ILE:HD12	1.65	0.79
31:AV:4:VAL:C	31:AV:5:ARG:HD3	2.07	0.79
10:BA:125:U:H4'	10:BA:126:A:C5'	2.11	0.79
10:BA:795:A:N6	10:BA:836:G:H2'	1.98	0.79
11:AB:1:MET:HB3	11:AB:7:GLN:NE2	1.97	0.79
25:AP:85:PRO:HA	32:AW:59:ARG:HH12	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:391:A:H5'	10:BA:392:A:H5'	1.63	0.79
10:BA:392:A:N7	10:BA:395:G:C6	2.49	0.79
10:BA:1570:U:C2'	10:BA:1571:C:H5"	2.12	0.79
10:BA:1661:G:H3'	10:BA:1661:G:N3	1.96	0.79
11:BB:49:THR:O	11:BB:53:ILE:HG13	1.81	0.79
12:BC:226:GLU:HB2	27:BR:207:TYR:HA	1.63	0.79
32:BW:108:LYS:HB2	32:BW:110:ARG:HE	1.46	0.79
35:BZ:47:VAL:HG12	35:BZ:74:ARG:HD2	1.64	0.79
2:A2:141:LYS:NZ	2:A2:143:LYS:HE2	1.98	0.79
10:AA:638:U:H3	10:AA:670:G:H1	1.28	0.79
18:AI:129:LYS:HG2	18:AI:130:LYS:N	1.95	0.79
3:B3:144:ARG:HH22	35:BZ:3:SER:CB	1.93	0.79
4:B4:39:PRO:HG3	4:B4:192:LYS:HB2	1.64	0.79
10:BA:237:U:H3'	10:BA:238:G:C5'	2.13	0.79
10:BA:478:G:N2	10:BA:494:A:H62	1.81	0.79
10:BA:681:G:N2	10:BA:719:G:N2	2.30	0.79
10:BA:796:U:H2'	10:BA:797:A:C5'	2.11	0.79
10:BA:1080:G:H8	10:BA:1080:G:O5'	1.65	0.79
10:BA:1731:G:H2'	10:BA:1732:U:H5"	1.65	0.79
13:BD:38:ASN:HB2	13:BD:40:ARG:HG2	1.63	0.79
14:BE:69:LYS:HG2	14:BE:76:LYS:HZ3	1.47	0.79
17:AH:59:LYS:H	17:AH:59:LYS:CD	1.94	0.79
18:AI:8:LEU:HD12	18:AI:9:VAL:H	1.48	0.79
10:BA:1556:G:N2	10:BA:1583:A:OP2	2.15	0.79
16:BG:13:LEU:HD23	16:BG:104:LEU:HD21	1.63	0.79
3:A3:130:LEU:HD12	3:A3:170:ILE:HG23	1.63	0.79
4:A4:67:VAL:HG21	10:AA:898:U:H4'	1.65	0.79
7:A7:88:ILE:HD13	7:A7:93:LYS:HD2	1.64	0.79
8:A8:73:LEU:HB2	8:A8:75:VAL:HG23	1.63	0.79
10:AA:391:A:H5'	10:AA:392:A:H5'	1.64	0.79
14:AE:228:PRO:O	14:AE:231:TRP:HB2	1.82	0.79
25:AP:33:ALA:HB3	25:AP:38:ILE:HD11	1.65	0.79
33:AX:34:ARG:NH1	33:AX:34:ARG:HB3	1.97	0.79
7:B7:58:ILE:HD13	12:BC:31:SER:HB3	1.63	0.79
10:BA:84:U:H5'	10:BA:84:U:H6	1.47	0.79
10:BA:391:A:C4'	10:BA:392:A:H5'	2.13	0.79
10:BA:881:U:C2'	10:BA:882:G:H5"	2.13	0.79
26:BQ:22:LEU:CD2	26:BQ:27:THR:HA	2.13	0.79
34:BY:22:LYS:HA	34:BY:25:ASN:HD22	1.46	0.79
6:A6:52:ILE:HD11	6:A6:62:CYS:HB2	1.63	0.79
10:AA:133:A:H4'	10:AA:134:C:O5'	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:642:G:H2'	10:AA:643:U:H5'	1.65	0.79
10:AA:975:G:H5'	10:AA:976:A:OP2	1.82	0.79
10:AA:1171:G:H8	23:AN:39:ARG:NH1	1.81	0.79
13:AD:28:MET:HE1	33:AX:37:LYS:HD2	1.64	0.79
16:AG:37:THR:HG22	16:AG:39:LYS:N	1.97	0.79
7:B7:12:ILE:HD12	7:B7:45:LEU:HD12	1.65	0.79
10:BA:665:A:H2'	10:BA:666:A:C8	2.18	0.79
10:BA:1293:A:H4'	10:BA:1294:A:O5'	1.81	0.79
12:BC:119:ARG:HH12	14:BE:122:VAL:HB	1.46	0.79
21:BL:62:GLN:HB3	21:BL:63:PRO:HD3	1.63	0.79
28:BS:55:SER:HB2	28:BS:58:TYR:CD2	2.18	0.79
34:BY:132:LYS:HZ1	34:BY:163:ARG:HB3	1.47	0.79
10:AA:533:G:O2'	10:AA:534:A:H5"	1.83	0.78
10:AA:1566:G:O2'	23:AN:29:LEU:HD11	1.83	0.78
10:AA:1605:A:O2'	10:AA:1606:C:OP2	2.01	0.78
27:AR:190:VAL:HG11	27:AR:216:VAL:HG11	1.65	0.78
32:AW:47:LEU:O	32:AW:51:ARG:HB3	1.83	0.78
3:B3:95:THR:HG22	3:B3:96:ALA:N	1.98	0.78
3:B3:136:LEU:H	3:B3:136:LEU:CD2	1.97	0.78
10:BA:290:A:O2'	10:BA:291:A:H5'	1.83	0.78
10:BA:328:G:C3'	26:BQ:132:LYS:HE2	2.13	0.78
17:BH:76:SER:HB2	17:BH:77:PRO:HD3	1.64	0.78
10:AA:259:U:H2'	10:AA:260:C:H6	1.48	0.78
10:AA:316:G:O4'	26:AQ:79:MET:HE2	1.82	0.78
10:AA:558:G:O2'	10:AA:571:G:H4'	1.83	0.78
10:AA:1030:A:H2'	10:AA:1031:A:C8	2.18	0.78
11:AB:134:SER:HB2	11:AB:152:TYR:CE2	2.19	0.78
7:B7:10:ILE:HG22	7:B7:14:LYS:HE3	1.65	0.78
10:BA:650:C:H2'	10:BA:651:G:H8	1.47	0.78
15:BF:32:PHE:CD2	15:BF:72:LYS:HE2	2.17	0.78
10:AA:733:G:H1	10:AA:782:A:N6	1.79	0.78
34:AY:64:LYS:HZ1	34:AY:82:SER:H	1.29	0.78
10:BA:262:G:H4'	10:BA:263:A:OP1	1.82	0.78
10:BA:1032:U:H2'	10:BA:1033:A:O4'	1.83	0.78
34:BY:180:GLN:O	34:BY:181:ARG:HB2	1.81	0.78
10:AA:881:U:C2'	10:AA:882:G:H5"	2.14	0.78
10:AA:1430:C:N4	22:AM:139:LYS:HG3	1.97	0.78
15:AF:17:THR:HG21	15:AF:39:PRO:HD3	1.65	0.78
29:AT:32:LEU:HD23	29:AT:32:LEU:H	1.47	0.78
34:AY:22:LYS:HA	34:AY:25:ASN:HD22	1.47	0.78
6:B6:46:SER:C	6:B6:47:ASN:HD22	1.91	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:561:A:H1'	33:BX:14:VAL:CG2	2.13	0.78
10:BA:1668:U:H2'	10:BA:1669:G:H8	1.48	0.78
29:BT:64:LEU:O	29:BT:68:VAL:HG23	1.82	0.78
3:A3:60:ALA:HB2	3:A3:91:ILE:HB	1.64	0.78
8:A8:63:VAL:HG13	16:AG:97:LEU:HD12	1.65	0.78
10:AA:1153:U:N3	10:AA:1157:U:H5	1.81	0.78
10:AA:1608:C:N4	10:AA:1718:A:C2	2.52	0.78
35:AZ:47:VAL:HG12	35:AZ:74:ARG:HD2	1.65	0.78
3:B3:102:SER:HA	10:BA:633:U:O4	1.84	0.78
9:B9:159:UNK:CA	9:B9:162:UNK:HG3	2.13	0.78
10:BA:84:U:H2'	10:BA:85:G:H5'	1.65	0.78
10:BA:1514:G:H5'	29:BT:90:GLY:CA	2.13	0.78
12:BC:10:LYS:HA	12:BC:13:LYS:HE2	1.66	0.78
25:BP:56:TYR:CE1	25:BP:70:PHE:HB2	2.19	0.78
27:BR:127:SER:HB2	27:BR:132:GLN:HB2	1.64	0.78
10:AA:44:U:H3	10:AA:425:A:H2	1.30	0.78
18:AI:50:ILE:O	18:AI:53:PRO:HD2	1.83	0.78
29:AT:66:ARG:O	29:AT:70:LEU:HD12	1.83	0.78
32:AW:88:LEU:HD11	32:AW:184:TYR:HE2	1.49	0.78
1:B1:18:THR:HG22	1:B1:19:GLY:N	1.99	0.78
21:BL:92:LEU:HD12	21:BL:92:LEU:O	1.84	0.78
9:A9:85:LYS:HG3	9:A9:86:THR:H	1.47	0.78
10:AA:84:U:H2'	10:AA:85:G:H5'	1.64	0.78
10:AA:312:C:H4'	10:AA:313:G:O5'	1.81	0.78
10:AA:764:U:H4'	10:AA:765:A:O5'	1.84	0.78
10:AA:876:A:H5'	20:AK:60:MET:HE3	1.64	0.78
15:AF:32:PHE:CD2	15:AF:72:LYS:HE2	2.19	0.78
21:AL:62:GLN:HB3	21:AL:63:PRO:CD	2.12	0.78
22:AM:54:PRO:HG2	22:AM:55:ASN:H	1.49	0.78
10:BA:17:C:H5'	10:BA:1081:G:H5"	1.66	0.78
10:BA:1037:G:C2'	10:BA:1038:U:H5'	2.14	0.78
27:BR:170:TYR:HD1	27:BR:187:PHE:HB3	1.48	0.78
32:BW:47:LEU:O	32:BW:51:ARG:HB3	1.84	0.78
32:BW:99:GLN:HB3	32:BW:101:PHE:HE1	1.49	0.78
34:BY:156:ILE:HA	34:BY:159:SER:OG	1.83	0.78
2:A2:57:ARG:HB2	10:AA:324:A:H5'	1.64	0.78
8:A8:75:VAL:HG13	8:A8:79:LEU:HD13	1.65	0.78
10:AA:845:G:H1	10:AA:939:U:H3	1.32	0.78
11:AB:134:SER:HB2	11:AB:152:TYR:HE2	1.46	0.78
19:AJ:17:VAL:HG11	19:AJ:116:MET:HE2	1.65	0.78
10:BA:1200:G:O6	30:BU:76:ARG:HD2	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BI:56:LEU:HD23	18:BI:111:LEU:HD23	1.64	0.78
19:BJ:14:VAL:HG12	19:BJ:16:LYS:HG3	1.66	0.78
27:BR:224:ASN:HB3	27:BR:226:LYS:HG3	1.65	0.78
2:A2:195:GLU:HB3	26:AQ:10:GLN:HE21	1.47	0.78
16:AG:14:PHE:CE2	16:AG:89:LYS:HA	2.19	0.78
22:AM:132:LYS:HZ2	22:AM:135:GLY:HA3	1.48	0.78
8:B8:43:VAL:CG1	22:BM:57:ARG:HD2	2.13	0.78
10:BA:642:G:H2'	10:BA:643:U:H5'	1.65	0.78
10:BA:868:U:H2'	10:BA:869:A:C5'	2.14	0.78
10:BA:1179:C:H4'	10:BA:1180:A:O5'	1.83	0.78
10:BA:1514:G:HO2'	10:BA:1515:A:H8	1.28	0.78
10:BA:1721:G:O2'	20:BK:151:LEU:HD13	1.82	0.78
13:BD:94:ASP:HB3	14:BE:149:ILE:HD11	1.66	0.78
34:BY:64:LYS:O	34:BY:67:VAL:HG12	1.83	0.78
10:AA:1299:C:H5"	12:AC:160:MET:O	1.84	0.78
10:AA:1716:A:OP1	10:AA:1724:U:OP1	2.02	0.78
14:AE:180:VAL:CG2	14:AE:198:TYR:HA	2.14	0.78
23:AN:39:ARG:HG3	23:AN:40:ARG:N	1.98	0.78
6:B6:48:ALA:H	6:B6:69:VAL:HG21	1.49	0.78
21:BL:62:GLN:HB3	21:BL:63:PRO:CD	2.14	0.78
25:BP:16:LEU:HA	25:BP:83:TYR:HE2	1.47	0.78
27:BR:190:VAL:HG11	27:BR:216:VAL:HG11	1.64	0.78
4:A4:124:ILE:HG23	4:A4:167:VAL:HG13	1.64	0.77
7:A7:12:ILE:HD12	7:A7:45:LEU:HD12	1.65	0.77
10:AA:447:C:H2'	10:AA:447:C:O2	1.84	0.77
10:AA:1212:U:H3'	10:AA:1213:G:C5'	2.13	0.77
2:B2:70:GLU:HG2	2:B2:85:LYS:HG2	1.65	0.77
10:BA:3:C:H6	10:BA:3:C:C5'	1.97	0.77
10:BA:317:G:O6	10:BA:328:G:O6	2.02	0.77
10:BA:1252:C:H5'	23:BN:43:ARG:HH12	1.49	0.77
13:BD:17:ARG:HH22	14:BE:183:PRO:CD	1.96	0.77
18:BI:9:VAL:HG21	18:BI:94:TYR:HA	1.66	0.77
20:BK:47:LEU:N	20:BK:47:LEU:HD23	1.99	0.77
8:A8:46:GLU:HB2	22:AM:7:LYS:HE3	1.66	0.77
9:A9:150:UNK:HA	9:A9:153:UNK:CG	2.13	0.77
10:AA:467:A:H5"	13:AD:130:ARG:HD2	1.66	0.77
12:AC:10:LYS:HA	12:AC:13:LYS:HE2	1.66	0.77
18:AI:14:ARG:HA	18:AI:18:ALA:O	1.85	0.77
31:AV:29:HIS:O	31:AV:32:LYS:HG2	1.84	0.77
2:B2:105:VAL:CG1	10:BA:320:G:H4'	2.14	0.77
30:BU:27:LYS:N	30:BU:31:GLU:HG2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:29:LYS:NZ	10:AA:391:A:N6	2.32	0.77
8:A8:30:TRP:HH2	15:BF:84:PHE:CZ	2.02	0.77
10:AA:1570:U:C2'	10:AA:1571:C:H5"	2.13	0.77
2:B2:36:THR:O	2:B2:103:THR:HA	1.84	0.77
2:B2:57:ARG:HD3	10:BA:324:A:C8	2.19	0.77
3:B3:132:LEU:HB3	3:B3:133:PRO:CD	2.15	0.77
4:B4:29:LYS:HB3	4:B4:49:LEU:HD11	1.65	0.77
10:BA:599:A:H5'	10:BA:600:A:H5"	1.65	0.77
10:BA:1358:A:H4'	10:BA:1359:C:O5'	1.84	0.77
13:BD:123:HIS:ND1	33:BX:34:ARG:HD3	1.99	0.77
32:BW:57:ASN:HD21	32:BW:59:ARG:HB3	1.49	0.77
34:BY:152:ASP:HB3	34:BY:153:PRO:HD2	1.65	0.77
10:AA:237:U:H3'	10:AA:238:G:C5'	2.13	0.77
10:AA:481:A:C3'	10:AA:482:A:H5"	2.15	0.77
30:AU:94:ILE:HG22	30:AU:95:LYS:N	1.98	0.77
32:AW:51:ARG:HA	32:AW:51:ARG:NE	1.98	0.77
32:AW:108:LYS:HB2	32:AW:110:ARG:HE	1.48	0.77
9:B9:146:UNK:HA	9:B9:149:UNK:HG3	1.66	0.77
29:BT:127:LYS:O	29:BT:128:PHE:HB2	1.83	0.77
10:AA:1204:U:O2'	10:AA:1205:G:H5'	1.83	0.77
10:AA:1482:C:O2'	29:AT:127:LYS:HD2	1.85	0.77
10:AA:1573:G:H22	29:AT:91:ASN:HD22	1.33	0.77
16:AG:67:LEU:HD12	16:AG:150:ILE:HD11	1.66	0.77
27:AR:92:ILE:HA	27:AR:101:ARG:O	1.83	0.77
10:BA:327:G:H2'	10:BA:328:G:H5"	1.66	0.77
12:BC:40:ILE:HG22	12:BC:42:VAL:HG23	1.64	0.77
12:BC:135:LYS:HB3	12:BC:192:MET:HE2	1.65	0.77
19:BJ:20:ARG:HB3	19:BJ:115:THR:HB	1.66	0.77
6:A6:48:ALA:H	6:A6:69:VAL:HG21	1.49	0.77
27:AR:180:VAL:HG12	27:AR:181:GLN:N	1.96	0.77
10:BA:975:G:H5'	10:BA:976:A:OP2	1.85	0.77
25:BP:101:THR:HG23	25:BP:105:PHE:CD1	2.19	0.77
7:A7:10:ILE:HG22	7:A7:14:LYS:HE3	1.67	0.77
9:A9:86:THR:HG22	9:A9:87:LYS:H	1.49	0.77
10:AA:158:G:H5"	34:AY:112:GLN:HE21	1.50	0.77
10:AA:468:U:H5'	10:AA:469:A:O4'	1.83	0.77
10:AA:747:G:N2	10:AA:755:G:O6	2.18	0.77
10:AA:1555:A:O2'	10:AA:1556:G:O5'	2.02	0.77
18:AI:27:GLY:HA3	18:AI:66:ASP:OD2	1.82	0.77
29:AT:127:LYS:O	29:AT:128:PHE:HB2	1.85	0.77
31:AV:35:LEU:HD21	31:AV:41:VAL:HG21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:152:ASP:HB3	34:AY:153:PRO:HD2	1.65	0.77
9:B9:150:UNK:HA	9:B9:153:UNK:CG	2.14	0.77
10:BA:426:G:N2	10:BA:429:A:OP2	2.17	0.77
10:BA:929:A:O2'	10:BA:930:A:H5'	1.83	0.77
10:BA:1159:U:O2'	10:BA:1160:G:H5'	1.84	0.77
10:BA:1731:G:C2'	10:BA:1732:U:H5"	2.14	0.77
14:BE:145:TRP:CZ3	14:BE:174:PRO:HG3	2.20	0.77
17:BH:102:VAL:H	17:BH:113:HIS:HB3	1.49	0.77
22:BM:28:THR:HG23	22:BM:57:ARG:O	1.84	0.77
26:BQ:10:GLN:HA	26:BQ:10:GLN:OE1	1.85	0.77
10:AA:1245:G:O2'	10:AA:1246:C:OP2	2.03	0.77
14:AE:41:LYS:HB3	14:AE:244:PHE:CE2	2.20	0.77
14:AE:141:ARG:HB3	14:AE:222:THR:HG22	1.66	0.77
26:AQ:66:ARG:HG3	26:AQ:66:ARG:NH1	1.99	0.77
3:B3:65:VAL:HG21	3:B3:73:LEU:HD22	1.66	0.77
10:BA:764:U:H4'	10:BA:765:A:O5'	1.84	0.77
10:BA:1030:A:H2'	10:BA:1031:A:C8	2.18	0.77
12:BC:108:MET:HE1	12:BC:122:ALA:HA	1.65	0.77
22:BM:146:VAL:HG12	22:BM:147:VAL:HG23	1.65	0.77
26:BQ:68:LYS:HD2	26:BQ:126:GLN:CG	2.15	0.77
1:A1:4:GLU:HG2	1:A1:58:MET:HE2	1.64	0.77
7:A7:61:TRP:CD2	23:AN:22:VAL:HG13	2.20	0.77
10:AA:224:G:H2'	10:AA:225:C:H5'	1.64	0.77
10:AA:570:G:H4'	10:AA:574:A:N3	2.00	0.77
10:AA:1668:U:H2'	10:AA:1669:G:H8	1.48	0.77
11:AB:25:LEU:HD21	11:AB:42:HIS:CG	2.20	0.77
19:AJ:20:ARG:HB3	19:AJ:115:THR:HB	1.67	0.77
21:AL:3:VAL:HG12	21:AL:4:GLY:H	1.48	0.77
26:AQ:85:ILE:HD12	26:AQ:108:VAL:HG21	1.65	0.77
2:B2:14:THR:HG23	10:BA:339:C:H1'	1.66	0.77
10:BA:1246:C:OP1	10:BA:1399:G:OP1	2.02	0.77
14:BE:231:TRP:HZ3	35:BZ:8:GLN:HB2	1.48	0.77
26:BQ:34:TYR:HE1	26:BQ:48:ILE:HG12	1.50	0.77
30:BU:96:LYS:HE3	30:BU:98:LYS:NZ	2.00	0.77
2:A2:70:GLU:HG2	2:A2:85:LYS:HG2	1.67	0.77
10:AA:1:A:H2'	14:AE:180:VAL:CG1	2.15	0.77
10:AA:392:A:N7	10:AA:395:G:C6	2.53	0.77
10:AA:478:G:N2	10:AA:494:A:H62	1.81	0.77
10:AA:760:G:N2	10:AA:764:U:H3	1.82	0.77
21:AL:96:ALA:HB3	21:AL:99:ASP:OD2	1.84	0.77
29:AT:60:ARG:HH22	29:AT:83:PHE:HD2	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:194:LYS:HE2	26:BQ:4:GLN:CD	2.10	0.77
4:B4:124:ILE:HG23	4:B4:167:VAL:HG13	1.65	0.77
10:BA:56:G:OP1	25:BP:109:LYS:HE2	1.85	0.77
10:BA:75:C:C1'	34:BY:178:LYS:HG2	2.15	0.77
30:BU:81:GLU:HG3	30:BU:97:VAL:HG21	1.67	0.77
10:AA:444:A:O2'	10:AA:445:U:OP1	2.03	0.76
10:AA:1488:A:O2'	10:AA:1489:U:OP1	2.01	0.76
12:AC:226:GLU:HB2	27:AR:207:TYR:HA	1.66	0.76
27:AR:102:LEU:HD12	27:AR:112:LYS:HB2	1.65	0.76
28:AS:55:SER:HB2	28:AS:58:TYR:CD2	2.20	0.76
2:B2:52:ARG:HD2	10:BA:1647:U:OP1	1.84	0.76
9:B9:83:LYS:HG3	9:B9:84:LYS:N	1.99	0.76
10:BA:730:A:H4'	17:BH:80:ASP:OD2	1.83	0.76
11:BB:134:SER:HB2	11:BB:152:TYR:CE2	2.20	0.76
11:BB:134:SER:HB2	11:BB:152:TYR:HE2	1.50	0.76
14:BE:36:LEU:HD13	14:BE:248:LEU:HD21	1.65	0.76
18:BI:27:GLY:HA3	18:BI:66:ASP:OD2	1.85	0.76
4:A4:90:VAL:O	4:A4:101:THR:HG23	1.86	0.76
10:AA:327:G:H2'	10:AA:328:G:H5"	1.66	0.76
10:AA:794:A:H5'	10:AA:795:A:OP2	1.85	0.76
10:AA:1032:U:H2'	10:AA:1033:A:O4'	1.84	0.76
10:AA:1159:U:O2'	10:AA:1160:G:H5'	1.84	0.76
10:AA:1753:A:OP1	10:AA:1753:A:O4'	2.03	0.76
11:AB:23:ILE:HG22	11:AB:40:GLY:O	1.86	0.76
19:AJ:51:LYS:HB2	19:AJ:90:ASP:HB2	1.65	0.76
27:AR:184:ALA:H	27:AR:206:ARG:NH2	1.83	0.76
34:AY:156:ILE:HA	34:AY:159:SER:OG	1.84	0.76
10:BA:633:U:O2'	10:BA:634:C:OP2	2.02	0.76
22:BM:27:ILE:CG2	22:BM:29:PRO:HD2	2.16	0.76
28:BS:46:THR:HG23	28:BS:89:ILE:HD13	1.67	0.76
31:BV:4:VAL:C	31:BV:5:ARG:HD3	2.09	0.76
10:AA:249:A:H4'	32:AW:134:GLY:O	1.85	0.76
10:AA:795:A:N6	10:AA:836:G:H2'	2.00	0.76
14:AE:141:ARG:O	14:AE:222:THR:HG21	1.84	0.76
24:AO:137:LEU:HD21	24:AO:141:TRP:CD1	2.20	0.76
2:B2:141:LYS:NZ	2:B2:143:LYS:HE2	2.00	0.76
23:BN:39:ARG:HG3	23:BN:40:ARG:N	1.95	0.76
27:BR:170:TYR:CD1	27:BR:187:PHE:HB3	2.20	0.76
33:BX:63:HIS:C	33:BX:65:GLY:H	1.93	0.76
2:A2:193:GLY:O	2:A2:197:GLU:HG3	1.86	0.76
11:AB:5:ARG:HH22	11:AB:12:ARG:HH22	1.32	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AG:152:GLY:O	16:AG:155:GLU:HB2	1.85	0.76
17:AH:102:VAL:HB	17:AH:113:HIS:HB2	1.66	0.76
20:AK:62:VAL:HG12	20:AK:63:LYS:N	2.01	0.76
32:AW:70:GLN:HG3	32:AW:80:ARG:HH21	1.48	0.76
33:AX:63:HIS:C	33:AX:65:GLY:H	1.93	0.76
3:B3:138:GLY:H	3:B3:154:GLN:HB2	1.50	0.76
10:BA:1245:G:C4'	10:BA:1246:C:H5"	2.13	0.76
12:BC:35:ALA:CB	12:BC:60:GLN:HB2	2.15	0.76
27:BR:48:ASP:O	27:BR:49:LYS:HB3	1.84	0.76
10:AA:74:A:H1'	34:AY:179:ILE:HD11	1.67	0.76
10:AA:868:U:C2'	10:AA:869:A:H5"	2.16	0.76
10:AA:1034:A:O2'	10:AA:1035:A:OP2	2.04	0.76
16:AG:122:ARG:HE	16:AG:129:VAL:HG13	1.50	0.76
3:B3:136:LEU:HD23	3:B3:136:LEU:N	2.00	0.76
10:BA:460:A:OP2	10:BA:460:A:H4'	1.84	0.76
10:BA:1212:U:H5'	10:BA:1213:G:OP2	1.85	0.76
11:BB:5:ARG:HH22	11:BB:12:ARG:HH22	1.34	0.76
14:BE:107:ASP:C	14:BE:109:ASN:H	1.94	0.76
15:BF:51:TRP:NE1	15:BF:84:PHE:CE2	2.50	0.76
17:BH:14:LEU:O	17:BH:17:ALA:HB3	1.84	0.76
27:BR:237:LEU:C	27:BR:237:LEU:HD23	2.10	0.76
18:AI:9:VAL:HG21	18:AI:94:TYR:HA	1.67	0.76
26:AQ:87:ARG:HH11	26:AQ:104:ARG:NH1	1.83	0.76
27:AR:127:SER:HB2	27:AR:132:GLN:HB2	1.68	0.76
30:AU:27:LYS:N	30:AU:31:GLU:HG2	2.01	0.76
10:BA:1573:G:H22	29:BT:91:ASN:HD22	1.31	0.76
16:BG:122:ARG:HE	16:BG:129:VAL:HG13	1.49	0.76
17:BH:104:LEU:HD22	17:BH:125:ILE:HA	1.66	0.76
22:BM:81:ILE:HA	29:BT:40:TRP:CH2	2.20	0.76
32:BW:51:ARG:HA	32:BW:51:ARG:NE	2.01	0.76
4:A4:39:PRO:HG3	4:A4:192:LYS:HB2	1.67	0.76
10:AA:145:G:N1	10:AA:157:G:N2	2.33	0.76
10:AA:478:G:H2'	10:AA:479:G:C1'	2.16	0.76
26:AQ:68:LYS:HD2	26:AQ:126:GLN:CG	2.16	0.76
34:AY:64:LYS:NZ	34:AY:82:SER:H	1.83	0.76
2:B2:8:LYS:HD3	2:B2:18:MET:HE1	1.68	0.76
10:BA:259:U:H2'	10:BA:260:C:H6	1.50	0.76
10:BA:481:A:C3'	10:BA:482:A:H5"	2.15	0.76
10:BA:1443:A:H4'	10:BA:1444:U:H5'	1.67	0.76
16:BG:54:LYS:HG2	16:BG:55:LYS:N	1.97	0.76
16:BG:152:GLY:O	16:BG:155:GLU:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BK:103:VAL:O	20:BK:142:ARG:HD2	1.86	0.76
21:BL:96:ALA:HB3	21:BL:99:ASP:OD2	1.85	0.76
34:BY:55:GLY:HA3	34:BY:63:MET:HG3	1.68	0.76
6:A6:42:GLN:HE22	6:A6:55:GLU:H	1.32	0.76
10:AA:1007:U:H3'	10:AA:1008:A:C5'	2.15	0.76
10:AA:1556:G:N2	10:AA:1583:A:OP2	2.19	0.76
14:AE:83:GLN:OE1	14:AE:208:ARG:HB3	1.86	0.76
15:AF:73:LEU:H	15:AF:73:LEU:HD23	1.49	0.76
17:AH:14:LEU:O	17:AH:17:ALA:HB3	1.86	0.76
20:AK:103:VAL:O	20:AK:142:ARG:HD2	1.85	0.76
25:AP:16:LEU:HA	25:AP:83:TYR:CE2	2.20	0.76
3:B3:91:ILE:CG2	3:B3:166:LYS:HD2	2.16	0.76
4:B4:73:ALA:HB2	20:BK:128:ARG:NH2	2.01	0.76
9:B9:85:LYS:HG3	9:B9:86:THR:H	1.49	0.76
10:BA:133:A:H4'	10:BA:134:C:O5'	1.83	0.76
10:BA:894:U:H3	20:BK:55:ARG:HH12	1.34	0.76
10:BA:1194:G:H1	10:BA:1233:U:H3	1.33	0.76
13:BD:109:LEU:O	13:BD:113:VAL:HG23	1.86	0.76
10:AA:8:U:O4	10:AA:15:U:O4	2.04	0.76
10:AA:512:C:H2'	10:AA:513:A:H5"	1.66	0.76
10:AA:1358:A:H4'	10:AA:1359:C:O5'	1.85	0.76
17:AH:102:VAL:H	17:AH:113:HIS:HB3	1.50	0.76
34:AY:55:GLY:HA3	34:AY:63:MET:HG3	1.68	0.76
9:B9:131:ARG:HD3	9:B9:142:LYS:HB2	1.66	0.76
10:BA:760:G:N2	10:BA:764:U:H3	1.83	0.76
11:BB:1:MET:HE1	31:BV:111:TYR:HA	1.68	0.76
14:BE:48:ILE:HA	14:BE:53:ILE:HD12	1.67	0.76
27:BR:174:MET:HE1	27:BR:178:ASN:HB2	1.68	0.76
32:BW:89:MET:HG3	32:BW:228:PHE:CE2	2.21	0.76
9:A9:164:UNK:O	9:A9:167:UNK:HG3	1.86	0.76
10:AA:983:A:H2'	10:AA:984:C:C6	2.21	0.76
10:AA:1721:G:O2'	20:AK:151:LEU:HD13	1.84	0.76
13:AD:80:MET:HG3	13:AD:85:LEU:HB2	1.68	0.76
13:AD:109:LEU:O	13:AD:113:VAL:HG23	1.86	0.76
15:AF:44:TYR:H	15:AF:44:TYR:HD1	1.30	0.76
21:AL:92:LEU:HD12	21:AL:92:LEU:O	1.84	0.76
26:AQ:34:TYR:HE1	26:AQ:48:ILE:HG12	1.51	0.76
27:AR:7:LEU:HA	27:AR:341:SER:HA	1.67	0.76
29:AT:45:VAL:CG2	29:AT:99:CYS:HA	2.12	0.76
4:B4:108:ILE:HD11	4:B4:219:ARG:HA	1.68	0.76
7:B7:17:LEU:HD13	7:B7:76:LEU:HD12	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:895:U:O2'	20:BK:43:HIS:HD2	1.69	0.76
10:BA:1204:U:O2'	10:BA:1205:G:H5'	1.84	0.76
10:BA:1732:U:H6	10:BA:1732:U:C5'	1.97	0.76
19:BJ:85:TYR:HB3	19:BJ:87:ARG:HH21	1.51	0.76
34:BY:106:MET:HE2	34:BY:106:MET:HA	1.67	0.76
10:AA:259:U:H2'	10:AA:260:C:C6	2.22	0.75
17:AH:59:LYS:HD3	17:AH:59:LYS:N	1.94	0.75
25:AP:101:THR:HG23	25:AP:105:PHE:CD1	2.20	0.75
25:AP:131:THR:HG22	25:AP:133:ALA:H	1.49	0.75
30:AU:49:ASP:OD1	30:AU:75:LYS:HA	1.85	0.75
3:B3:173:ILE:O	3:B3:177:VAL:HG23	1.86	0.75
10:BA:444:A:O2'	10:BA:445:U:OP1	2.03	0.75
10:BA:1063:A:O2'	10:BA:1064:A:OP2	2.04	0.75
14:BE:233:LYS:HD3	35:BZ:9:ARG:HG2	1.68	0.75
26:BQ:146:ILE:HG23	26:BQ:153:GLN:HE21	1.50	0.75
28:BS:97:GLY:O	28:BS:112:VAL:HG23	1.86	0.75
2:A2:38:LEU:HD21	2:A2:104:LEU:HD11	1.68	0.75
10:AA:84:U:H5'	10:AA:84:U:H6	1.51	0.75
10:AA:1037:G:C2'	10:AA:1038:U:H5'	2.16	0.75
20:AK:103:VAL:HG12	20:AK:142:ARG:HG2	1.68	0.75
3:B3:194:THR:HG21	10:BA:1027:U:O3'	1.87	0.75
9:B9:86:THR:HG22	9:B9:87:LYS:H	1.50	0.75
10:BA:27:A:C8	10:BA:27:A:H5'	2.22	0.75
10:BA:1299:C:H5"	12:BC:160:MET:O	1.86	0.75
9:A9:83:LYS:HG3	9:A9:84:LYS:N	2.02	0.75
10:AA:378:A:O2'	10:AA:379:A:OP2	2.04	0.75
10:AA:444:A:O2'	10:AA:445:U:H5'	1.85	0.75
13:AD:123:HIS:ND1	33:AX:34:ARG:HD3	2.00	0.75
14:AE:228:PRO:CB	17:AH:68:ARG:HH21	1.99	0.75
10:BA:59:C:H3'	10:BA:60:C:H5"	1.67	0.75
10:BA:1069:U:H3'	14:BE:160:THR:HG21	1.67	0.75
14:BE:166:VAL:C	14:BE:167:ARG:HD2	2.10	0.75
16:BG:67:LEU:HD12	16:BG:150:ILE:HD11	1.67	0.75
25:BP:16:LEU:HA	25:BP:83:TYR:CE2	2.22	0.75
27:BR:102:LEU:HD12	27:BR:112:LYS:HB2	1.66	0.75
2:A2:154:THR:C	2:A2:156:ALA:H	1.92	0.75
10:AA:538:A:O2'	10:AA:539:U:C6	2.39	0.75
26:AQ:146:ILE:HG23	26:AQ:153:GLN:HE21	1.51	0.75
27:AR:170:TYR:HD1	27:AR:187:PHE:HB3	1.50	0.75
28:AS:46:THR:HG23	28:AS:89:ILE:HD13	1.69	0.75
3:B3:63:ILE:HD11	3:B3:94:PHE:CD2	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:309:U:H3	10:BA:337:G:H1	1.34	0.75
10:BA:1535:A:O2'	10:BA:1536:U:H5'	1.87	0.75
10:BA:1720:G:OP1	10:BA:1723:A:H4'	1.86	0.75
27:BR:180:VAL:HG12	27:BR:181:GLN:N	1.98	0.75
32:BW:114:LYS:HE3	32:BW:114:LYS:HA	1.68	0.75
10:AA:1332:A:H2'	10:AA:1333:A:C8	2.21	0.75
14:AE:231:TRP:HZ3	35:AZ:8:GLN:HB2	1.51	0.75
2:B2:115:THR:HB	2:B2:116:PRO:HD3	1.67	0.75
10:BA:468:U:H5'	10:BA:469:A:O4'	1.86	0.75
10:BA:718:A:C2'	10:BA:719:G:H5'	2.17	0.75
10:BA:747:G:N2	10:BA:755:G:O6	2.20	0.75
33:BX:34:ARG:HB3	33:BX:34:ARG:NH1	2.00	0.75
34:BY:132:LYS:NZ	34:BY:163:ARG:HB3	2.02	0.75
1:A1:7:THR:HG23	1:A1:33:SER:HB3	1.69	0.75
3:A3:147:GLY:HA3	17:AH:39:ARG:NH2	2.01	0.75
14:AE:36:LEU:HD13	14:AE:248:LEU:HD21	1.67	0.75
16:AG:34:ALA:HB3	16:AG:63:ILE:H	1.51	0.75
26:AQ:10:GLN:HA	26:AQ:10:GLN:OE1	1.87	0.75
34:AY:106:MET:HE2	34:AY:106:MET:HA	1.69	0.75
10:BA:1486:U:H5'	10:BA:1487:A:N3	2.01	0.75
16:BG:34:ALA:HB3	16:BG:63:ILE:H	1.50	0.75
20:BK:36:THR:HG22	20:BK:37:TRP:N	2.02	0.75
20:BK:119:LEU:O	20:BK:124:MET:HB2	1.87	0.75
2:A2:57:ARG:HD3	10:AA:324:A:C8	2.21	0.75
7:A7:17:LEU:HD13	7:A7:76:LEU:HD12	1.69	0.75
10:AA:59:C:H3'	10:AA:60:C:H5"	1.68	0.75
10:AA:201:A:O2'	10:AA:202:U:H5'	1.85	0.75
10:AA:986:G:OP1	20:AK:149:ARG:CZ	2.35	0.75
27:AR:170:TYR:CD1	27:AR:187:PHE:HB3	2.22	0.75
1:B1:41:LEU:HG	1:B1:63:GLU:HB2	1.69	0.75
13:BD:80:MET:CE	13:BD:96:VAL:HG13	2.17	0.75
14:BE:145:TRP:HZ3	14:BE:174:PRO:HG3	1.49	0.75
16:BG:14:PHE:CE2	16:BG:89:LYS:HA	2.21	0.75
18:BI:14:ARG:HA	18:BI:18:ALA:O	1.87	0.75
26:BQ:32:ARG:HH21	26:BQ:50:GLY:C	1.94	0.75
10:AA:477:G:O2'	10:AA:478:G:H5'	1.87	0.75
10:AA:858:C:C3'	10:AA:859:A:H5"	2.16	0.75
10:AA:1063:A:O2'	10:AA:1064:A:OP2	2.05	0.75
10:AA:1080:G:H8	10:AA:1080:G:O5'	1.68	0.75
10:AA:1263:G:N2	10:AA:1296:G:H1	1.85	0.75
10:AA:1551:U:H1'	18:AI:141:GLN:HE22	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AM:27:ILE:CG2	22:AM:29:PRO:HD2	2.16	0.75
26:AQ:116:VAL:CG1	26:AQ:117:LYS:H	1.97	0.75
2:B2:200:ILE:HG22	2:B2:204:GLN:HE21	1.50	0.75
10:BA:533:G:H8	33:BX:28:ARG:NH1	1.85	0.75
13:BD:80:MET:HG3	13:BD:85:LEU:HB2	1.68	0.75
14:BE:66:PRO:HB2	14:BE:68:ASN:ND2	2.02	0.75
18:BI:50:ILE:O	18:BI:53:PRO:HD2	1.86	0.75
21:BL:116:ILE:CG2	21:BL:119:VAL:HB	2.13	0.75
30:BU:117:LYS:HA	30:BU:120:ILE:HD12	1.69	0.75
10:AA:84:U:H2'	10:AA:85:G:H5"	1.66	0.75
10:AA:391:A:H4'	10:AA:392:A:H5'	1.69	0.75
10:AA:1558:A:C5	10:AA:1583:A:N6	2.55	0.75
26:AQ:32:ARG:HH21	26:AQ:50:GLY:C	1.95	0.75
32:AW:99:GLN:HB3	32:AW:101:PHE:HE1	1.52	0.75
4:B4:53:SER:OG	4:B4:59:ALA:HB2	1.87	0.75
10:BA:1006:C:H4'	10:BA:1007:U:O5'	1.86	0.75
10:BA:1055:G:O2'	10:BA:1056:A:H5'	1.87	0.75
10:AA:1153:U:H3	10:AA:1157:U:H5	1.34	0.74
10:AA:1179:C:H4'	10:AA:1180:A:O5'	1.87	0.74
10:AA:1212:U:H5'	10:AA:1213:G:OP2	1.86	0.74
10:AA:1657:G:H1	10:AA:1668:U:H3	1.35	0.74
22:AM:28:THR:HG23	22:AM:57:ARG:O	1.86	0.74
27:AR:49:LYS:HE2	27:AR:74:GLY:H	1.51	0.74
28:AS:100:GLY:HA2	28:AS:108:VAL:O	1.87	0.74
32:AW:57:ASN:HD21	32:AW:59:ARG:HB3	1.51	0.74
10:BA:515:U:OP1	25:BP:35:LYS:HE2	1.87	0.74
3:A3:129:ASP:O	3:A3:132:LEU:HB2	1.86	0.74
3:A3:136:LEU:H	3:A3:136:LEU:CD2	1.99	0.74
4:A4:53:SER:OG	4:A4:59:ALA:HB2	1.87	0.74
10:AA:75:C:O5'	10:AA:75:C:H6	1.69	0.74
10:AA:1194:G:H1	10:AA:1233:U:H3	1.35	0.74
18:AI:101:GLU:OE2	18:AI:104:LYS:HD3	1.87	0.74
31:AV:107:LYS:HA	31:AV:112:GLN:HB3	1.67	0.74
2:B2:29:LYS:HZ1	10:BA:391:A:H62	1.35	0.74
4:B4:90:VAL:O	4:B4:101:THR:HG23	1.86	0.74
10:BA:44:U:H3	10:BA:425:A:H2	1.33	0.74
10:BA:1332:A:H2'	10:BA:1333:A:C8	2.21	0.74
10:BA:1608:C:N4	10:BA:1718:A:C2	2.54	0.74
21:BL:52:VAL:HG13	21:BL:71:VAL:CG1	2.17	0.74
31:BV:61:ILE:C	31:BV:63:LYS:H	1.94	0.74
4:A4:48:THR:HG22	4:A4:49:LEU:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1535:A:O2'	10:AA:1536:U:H5'	1.86	0.74
16:AG:54:LYS:HG2	16:AG:55:LYS:N	2.02	0.74
20:AK:36:THR:HG22	20:AK:37:TRP:N	2.02	0.74
10:BA:625:G:H1	10:BA:946:U:H3	1.35	0.74
10:BA:844:G:O2'	10:BA:845:G:H5'	1.88	0.74
10:BA:1259:A:O2'	10:BA:1260:G:C8	2.40	0.74
13:BD:60:LEU:HD22	13:BD:93:LEU:HD13	1.68	0.74
9:A9:146:UNK:HA	9:A9:149:UNK:HG3	1.67	0.74
10:AA:149:U:H4'	34:AY:58:LYS:O	1.86	0.74
10:AA:245:A:HO2'	10:AA:246:U:H3'	1.51	0.74
10:AA:481:A:H3'	10:AA:482:A:H5"	1.70	0.74
10:AA:1514:G:H5'	29:AT:90:GLY:CA	2.18	0.74
13:AD:80:MET:CE	13:AD:96:VAL:HG13	2.17	0.74
15:AF:41:GLU:O	8:B8:32:LYS:HB3	1.88	0.74
32:AW:126:LEU:HD22	32:AW:143:THR:HG21	1.68	0.74
10:BA:632:U:OP1	17:BH:32:LYS:HE3	1.87	0.74
11:BB:25:LEU:HD21	11:BB:42:HIS:CG	2.22	0.74
14:BE:154:THR:CG2	14:BE:172:PRO:HA	2.08	0.74
14:BE:231:TRP:CE2	17:BH:68:ARG:HG3	2.22	0.74
16:BG:57:ARG:HH11	16:BG:57:ARG:CA	1.92	0.74
16:BG:99:THR:HG22	16:BG:101:ARG:HG3	1.70	0.74
5:A5:7:ASN:HB3	5:A5:10:ARG:O	1.87	0.74
10:AA:469:A:N6	10:AA:531:A:C2	2.56	0.74
10:AA:761:U:C5	25:AP:7:THR:O	2.41	0.74
27:AR:225:GLY:O	27:AR:242:ILE:HD12	1.88	0.74
30:AU:69:LYS:HB3	30:AU:124:LEU:HD13	1.67	0.74
34:AY:160:VAL:HG12	34:AY:161:ILE:N	2.00	0.74
2:B2:173:LEU:HB3	2:B2:191:LEU:HD12	1.67	0.74
10:BA:1137:A:H4'	16:BG:73:PHE:CE2	2.20	0.74
10:BA:1497:A:H4'	29:BT:86:ASN:ND2	2.03	0.74
30:BU:49:ASP:OD1	30:BU:75:LYS:HA	1.88	0.74
6:A6:6:LEU:HD13	17:AH:51:GLU:OE1	1.86	0.74
10:AA:63:U:H3'	10:AA:64:U:H5"	1.69	0.74
14:AE:149:ILE:HG22	14:AE:150:ALA:N	2.01	0.74
19:AJ:85:TYR:HB3	19:AJ:87:ARG:HH21	1.50	0.74
27:AR:125:ALA:HB3	27:AR:134:LEU:HB3	1.68	0.74
27:AR:298:PRO:CD	27:AR:334:ARG:HH21	2.00	0.74
2:B2:193:GLY:O	2:B2:197:GLU:HG3	1.86	0.74
4:B4:43:LYS:HD2	4:B4:44:SER:H	1.52	0.74
10:BA:983:A:H2'	10:BA:984:C:C6	2.22	0.74
10:BA:1601:G:H4'	10:BA:1747:A:OP2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BP:131:THR:HG22	25:BP:133:ALA:H	1.51	0.74
1:A1:62:ARG:NH2	16:AG:200:ARG:HB2	2.01	0.74
8:A8:102:GLN:OE1	16:AG:165:ALA:HB3	1.87	0.74
10:AA:599:A:H5'	10:AA:600:A:H5"	1.68	0.74
19:AJ:14:VAL:HG12	19:AJ:16:LYS:HG3	1.69	0.74
20:AK:64:ALA:HB3	20:AK:67:GLU:HG2	1.70	0.74
10:BA:858:C:C3'	10:BA:859:A:H5"	2.17	0.74
10:BA:1325:G:H2'	10:BA:1326:C:C5'	2.09	0.74
12:BC:38:ALA:HB2	12:BC:94:ILE:HD11	1.70	0.74
26:BQ:39:LEU:HA	32:BW:204:GLN:NE2	2.01	0.74
26:BQ:146:ILE:HD13	26:BQ:153:GLN:HG2	1.67	0.74
27:BR:298:PRO:CD	27:BR:334:ARG:HH21	2.00	0.74
34:BY:165:PHE:CE1	34:BY:173:ARG:HB2	2.22	0.74
10:AA:215:A:O2'	10:AA:216:G:H5'	1.88	0.74
10:AA:1171:G:O2'	10:AA:1172:G:OP2	2.05	0.74
10:AA:1575:U:H2'	10:AA:1576:U:C6	2.23	0.74
11:AB:64:GLN:HG2	14:AE:245:SER:OG	1.88	0.74
27:AR:237:LEU:HD23	27:AR:237:LEU:C	2.13	0.74
10:BA:27:A:H5'	10:BA:27:A:H8	1.50	0.74
10:BA:447:C:O2	10:BA:447:C:H2'	1.86	0.74
2:A2:36:THR:O	2:A2:103:THR:HA	1.87	0.74
3:A3:136:LEU:HD23	3:A3:136:LEU:N	2.03	0.74
10:AA:844:G:O2'	10:AA:845:G:H5'	1.86	0.74
13:AD:80:MET:HE3	13:AD:96:VAL:HG13	1.69	0.74
14:AE:48:ILE:HA	14:AE:53:ILE:HD12	1.70	0.74
20:AK:47:LEU:N	20:AK:47:LEU:HD23	2.02	0.74
31:AV:61:ILE:HG12	31:AV:66:VAL:CG2	2.18	0.74
35:AZ:34:TRP:O	35:AZ:35:SER:HB3	1.86	0.74
10:BA:426:G:OP1	21:BL:77:LYS:HB2	1.88	0.74
10:BA:469:A:N6	10:BA:531:A:C2	2.56	0.74
14:BE:149:ILE:HG22	14:BE:150:ALA:N	2.02	0.74
15:BF:48:MET:HE3	15:BF:71:ILE:HG12	1.70	0.74
10:AA:328:G:C3'	26:AQ:132:LYS:HE2	2.17	0.74
10:AA:604:G:H21	21:AL:19:ARG:NH2	1.86	0.74
10:AA:1250:G:H1	10:AA:1401:U:H3	1.36	0.74
10:AA:1580:U:C5'	18:AI:74:SER:HB2	2.17	0.74
10:AA:1608:C:C4'	10:AA:1609:C:H5"	2.12	0.74
16:AG:99:THR:HG22	16:AG:101:ARG:HG3	1.69	0.74
18:AI:79:GLN:O	18:AI:83:ILE:HG13	1.88	0.74
27:AR:238:LEU:HD11	27:AR:248:PRO:HG3	1.70	0.74
31:AV:61:ILE:C	31:AV:63:LYS:H	1.94	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:64:LYS:HZ1	34:AY:82:SER:N	1.85	0.74
10:BA:162:A:C5'	34:BY:136:LYS:HB3	2.18	0.74
10:BA:336:U:O2'	10:BA:337:G:H8	1.67	0.74
10:BA:876:A:H4'	10:BA:877:G:O5'	1.88	0.74
10:BA:942:U:H2'	10:BA:942:U:O2	1.88	0.74
10:BA:1007:U:H3'	10:BA:1008:A:C5'	2.17	0.74
10:BA:1188:A:H2'	10:BA:1415:A:N1	2.02	0.74
24:BO:137:LEU:HD21	24:BO:141:TRP:CD1	2.23	0.74
26:BQ:44:PRO:HG2	26:BQ:47:ALA:HB2	1.70	0.74
26:BQ:66:ARG:HG3	26:BQ:66:ARG:NH1	2.02	0.74
2:A2:200:ILE:HG22	2:A2:204:GLN:HE21	1.52	0.73
6:A6:33:VAL:HG21	6:A6:44:ILE:HD12	1.69	0.73
10:AA:492:C:H2'	10:AA:493:U:C6	2.23	0.73
10:AA:584:C:OP1	33:AX:44:ARG:NH2	2.20	0.73
10:AA:631:C:H5'	10:AA:631:C:H6	1.53	0.73
10:AA:1072:G:H1'	17:AH:76:SER:OG	1.88	0.73
11:AB:27:ASN:O	11:AB:30:LYS:HB2	1.87	0.73
34:AY:9:LEU:HD23	34:AY:9:LEU:H	1.53	0.73
6:B6:42:GLN:NE2	6:B6:55:GLU:H	1.85	0.73
10:BA:1212:U:H3'	10:BA:1213:G:C5'	2.15	0.73
10:BA:1430:C:O2'	10:BA:1431:A:H5'	1.88	0.73
10:BA:1657:G:H1	10:BA:1668:U:H3	1.35	0.73
22:BM:35:ILE:HD12	22:BM:38:ILE:HD12	1.70	0.73
26:BQ:85:ILE:HD12	26:BQ:108:VAL:HG21	1.70	0.73
28:BS:38:LEU:HB3	28:BS:42:PHE:HE1	1.52	0.73
30:BU:39:LYS:HE3	30:BU:66:ASN:O	1.88	0.73
32:BW:92:VAL:HG23	32:BW:101:PHE:HB2	1.68	0.73
33:BX:63:HIS:O	33:BX:65:GLY:N	2.21	0.73
7:A7:101:SER:HB2	12:AC:90:TRP:CE3	2.23	0.73
10:AA:1208:A:H2'	10:AA:1209:G:C8	2.23	0.73
32:AW:89:MET:HG3	32:AW:228:PHE:CE2	2.23	0.73
34:AY:64:LYS:O	34:AY:67:VAL:HG12	1.88	0.73
7:B7:40:LEU:HG	10:BA:1189:A:C2	2.23	0.73
8:B8:46:GLU:HG3	22:BM:5:ILE:O	1.88	0.73
10:BA:478:G:H2'	10:BA:479:G:C1'	2.18	0.73
10:BA:1059:A:H5'	10:BA:1270:U:O4	1.88	0.73
16:BG:35:CYS:H	16:BG:63:ILE:HD11	1.53	0.73
4:A4:38:ILE:HG22	4:A4:39:PRO:HD2	1.68	0.73
26:AQ:35:LYS:HG2	26:AQ:36:ASN:H	1.52	0.73
28:AS:38:LEU:HB3	28:AS:42:PHE:HE1	1.52	0.73
29:AT:15:ALA:HA	29:AT:18:PHE:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:159:GLY:O	32:AW:177:LEU:HD22	1.88	0.73
9:B9:97:ALA:HB1	30:BU:29:LEU:HD13	1.68	0.73
10:BA:145:G:N1	10:BA:157:G:N2	2.35	0.73
10:BA:1016:U:O2'	17:BH:20:MET:HG3	1.88	0.73
10:BA:1558:A:C5	10:BA:1583:A:N6	2.56	0.73
20:BK:55:ARG:HG2	20:BK:55:ARG:O	1.86	0.73
27:BR:125:ALA:HB3	27:BR:134:LEU:HB3	1.67	0.73
31:BV:29:HIS:O	31:BV:32:LYS:HG2	1.87	0.73
10:AA:135:A:O2'	10:AA:136:U:OP2	2.05	0.73
10:AA:718:A:C2'	10:AA:719:G:H5'	2.17	0.73
10:AA:1241:U:O2'	10:AA:1242:G:OP2	2.06	0.73
10:AA:1301:A:C2'	10:AA:1302:G:H5'	2.19	0.73
14:AE:166:VAL:HG21	14:AE:210:ASN:HB3	1.70	0.73
29:AT:108:LEU:HD13	29:AT:130:ARG:HG3	1.70	0.73
1:B1:19:GLY:O	1:B1:21:ARG:N	2.22	0.73
2:B2:38:LEU:HD21	2:B2:104:LEU:HD11	1.70	0.73
4:B4:48:THR:HG22	4:B4:49:LEU:N	2.03	0.73
10:BA:1716:A:OP1	10:BA:1724:U:OP1	2.06	0.73
2:A2:166:GLN:HE22	2:A2:173:LEU:HD23	1.54	0.73
4:A4:116:MET:HE3	4:A4:215:ASN:HB3	1.69	0.73
9:A9:131:ARG:HD3	9:A9:142:LYS:HB2	1.68	0.73
10:AA:515:U:OP1	25:AP:35:LYS:HE2	1.88	0.73
10:AA:876:A:H4'	10:AA:877:G:O5'	1.87	0.73
10:AA:1516:U:O2'	22:AM:149:GLY:HA2	1.86	0.73
13:AD:17:ARG:HH22	14:AE:183:PRO:CD	2.02	0.73
29:AT:112:GLU:OE2	29:AT:119:LYS:HG3	1.88	0.73
10:BA:444:A:H3'	10:BA:445:U:C6	2.23	0.73
10:BA:492:C:H2'	10:BA:493:U:C6	2.24	0.73
10:BA:684:A:H2'	10:BA:685:A:C4	2.23	0.73
10:BA:1488:A:O2'	10:BA:1489:U:OP1	2.03	0.73
12:BC:130:ILE:HA	12:BC:134:ALA:HB3	1.69	0.73
14:BE:155:ILE:HG22	14:BE:156:PRO:HD2	1.71	0.73
14:BE:166:VAL:HG21	14:BE:210:ASN:HB3	1.69	0.73
20:BK:64:ALA:HB3	20:BK:67:GLU:HG2	1.68	0.73
1:A1:17:LYS:HE3	10:AA:1588:G:H4'	1.70	0.73
9:A9:146:UNK:HA	9:A9:149:UNK:CG	2.19	0.73
10:AA:56:G:OP1	25:AP:109:LYS:HE2	1.88	0.73
10:AA:316:G:O2'	10:AA:317:G:H5'	1.89	0.73
10:AA:633:U:O2'	10:AA:634:C:OP2	2.04	0.73
10:BA:201:A:O2'	10:BA:202:U:H5'	1.88	0.73
10:BA:868:U:C2'	10:BA:869:A:H5"	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:942:U:O2'	10:BA:943:U:H5"	1.89	0.73
34:BY:9:LEU:HD23	34:BY:9:LEU:H	1.53	0.73
34:BY:181:ARG:HH11	34:BY:181:ARG:HG2	1.54	0.73
6:A6:18:LYS:NZ	10:AA:936:U:H5"	2.04	0.73
10:AA:318:U:H4'	26:AQ:11:LYS:NZ	2.03	0.73
10:AA:426:G:N2	10:AA:429:A:OP2	2.21	0.73
10:AA:492:C:H2'	10:AA:493:U:H6	1.54	0.73
10:AA:1567:U:H5'	23:AN:29:LEU:HD11	1.70	0.73
10:AA:1714:U:O2'	10:AA:1715:A:H5'	1.89	0.73
12:AC:38:ALA:HB2	12:AC:94:ILE:HD11	1.70	0.73
13:AD:60:LEU:HD22	13:AD:93:LEU:HD13	1.70	0.73
14:AE:233:LYS:CG	14:AE:234:PRO:HD2	2.19	0.73
9:B9:164:UNK:O	9:B9:167:UNK:HG3	1.87	0.73
10:BA:259:U:H2'	10:BA:260:C:C6	2.23	0.73
10:BA:1171:G:O2'	10:BA:1172:G:OP2	2.06	0.73
21:BL:101:VAL:CG1	21:BL:123:VAL:HG13	2.18	0.73
6:A6:46:SER:C	6:A6:47:ASN:HD22	1.95	0.73
10:AA:309:U:H3	10:AA:337:G:H1	1.35	0.73
14:AE:154:THR:CG2	14:AE:172:PRO:HA	2.13	0.73
15:AF:26:ARG:HH21	15:AF:72:LYS:HZ3	1.36	0.73
33:AX:50:LEU:HD23	33:AX:57:ARG:HH12	1.52	0.73
10:BA:477:G:O2'	10:BA:478:G:H5'	1.88	0.73
10:BA:1037:G:H2'	10:BA:1038:U:H5'	1.71	0.73
10:BA:1172:G:O2'	10:BA:1173:G:OP2	2.02	0.73
21:BL:19:ARG:HH12	21:BL:22:GLN:HB2	1.54	0.73
25:BP:12:VAL:O	25:BP:14:PRO:HD3	1.89	0.73
29:BT:9:THR:HG22	29:BT:10:VAL:N	2.03	0.73
2:A2:84:THR:HG22	2:A2:85:LYS:H	1.54	0.73
3:A3:138:GLY:H	3:A3:154:GLN:HB2	1.53	0.73
10:AA:1721:G:H21	20:AK:151:LEU:CD1	2.01	0.73
21:AL:69:LYS:HB3	21:AL:69:LYS:NZ	2.04	0.73
24:AO:68:LEU:C	24:AO:68:LEU:HD23	2.14	0.73
32:AW:116:LEU:HD12	32:AW:120:GLU:CB	2.19	0.73
10:BA:1381:A:H2'	10:BA:1382:A:O4'	1.89	0.73
11:BB:23:ILE:HG22	11:BB:40:GLY:O	1.89	0.73
14:BE:154:THR:HG22	14:BE:155:ILE:HG13	1.71	0.73
16:BG:12:LYS:HB3	16:BG:17:TRP:H	1.53	0.73
26:BQ:87:ARG:HH11	26:BQ:104:ARG:NH1	1.87	0.73
28:BS:46:THR:HG23	28:BS:89:ILE:CD1	2.19	0.73
31:BV:107:LYS:HA	31:BV:112:GLN:HB3	1.70	0.73
33:BX:50:LEU:HD23	33:BX:57:ARG:NH1	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:173:ILE:O	3:A3:177:VAL:HG23	1.88	0.73
10:AA:444:A:H3'	10:AA:445:U:C6	2.24	0.73
10:AA:512:C:C2'	10:AA:513:A:H5"	2.19	0.73
10:AA:647:U:H3	10:AA:661:G:H1	1.37	0.73
10:AA:664:A:H2'	10:AA:665:A:C8	2.23	0.73
24:AO:86:LEU:HD11	24:AO:90:LEU:HD23	1.68	0.73
28:AS:55:SER:HB2	28:AS:58:TYR:HD2	1.53	0.73
29:AT:99:CYS:SG	29:AT:100:HIS:N	2.62	0.73
5:B5:7:ASN:HB3	5:B5:10:ARG:O	1.89	0.73
10:BA:316:G:O4'	26:BQ:79:MET:HE2	1.88	0.73
10:BA:505:A:OP2	13:BD:170:GLY:N	2.20	0.73
10:BA:512:C:C2'	10:BA:513:A:H5"	2.19	0.73
10:BA:604:G:H21	21:BL:19:ARG:NH2	1.86	0.73
10:BA:647:U:H3	10:BA:661:G:H1	1.37	0.73
10:BA:681:G:H1	10:BA:719:G:N2	1.87	0.73
10:BA:1001:A:HO2'	10:BA:1002:U:H6	1.36	0.73
10:BA:1340:G:C2'	10:BA:1341:U:H5"	2.19	0.73
14:BE:41:LYS:HB3	14:BE:244:PHE:CE2	2.24	0.73
14:BE:180:VAL:CG2	14:BE:198:TYR:HA	2.18	0.73
24:BO:135:GLN:HG3	26:BQ:147:ILE:HD11	1.71	0.73
35:BZ:11:LYS:HB3	35:BZ:12:PRO:HD2	1.71	0.73
10:AA:1369:A:H2'	10:AA:1370:U:C6	2.24	0.72
10:AA:1497:A:H4'	29:AT:86:ASN:ND2	2.03	0.72
11:AB:22:THR:HG22	11:AB:23:ILE:N	2.04	0.72
12:AC:96:PHE:HB3	12:AC:132:ASP:OD1	1.88	0.72
14:AE:73:ALA:HB1	14:AE:75:HIS:CD2	2.24	0.72
30:AU:70:TYR:CE2	30:AU:126:ALA:HB3	2.24	0.72
32:AW:47:LEU:HD11	32:AW:113:LEU:HD11	1.71	0.72
4:B4:38:ILE:HG22	4:B4:39:PRO:HD2	1.70	0.72
10:BA:588:A:H4'	10:BA:589:G:O5'	1.89	0.72
10:BA:794:A:H5'	10:BA:795:A:OP2	1.89	0.72
10:BA:1186:G:H1	10:BA:1420:U:H3	1.36	0.72
11:BB:60:ILE:O	11:BB:63:VAL:HG22	1.89	0.72
30:BU:76:ARG:HG3	30:BU:99:GLY:HA3	1.69	0.72
7:A7:11:ARG:HG3	7:A7:15:GLN:NE2	2.04	0.72
10:AA:513:A:H8	10:AA:513:A:H5'	1.54	0.72
10:AA:948:A:C2'	10:AA:949:A:H5'	2.19	0.72
10:AA:1325:G:H2'	10:AA:1326:C:C5'	2.09	0.72
11:AB:118:LEU:C	11:AB:119:ILE:HD12	2.14	0.72
16:AG:158:PHE:HD2	16:AG:159:LYS:HG3	1.54	0.72
28:AS:98:ILE:O	28:AS:98:ILE:HG13	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:948:A:C2'	10:BA:949:A:H5'	2.19	0.72
10:BA:1250:G:H1	10:BA:1401:U:H3	1.35	0.72
18:BI:79:GLN:O	18:BI:83:ILE:HG13	1.88	0.72
20:BK:103:VAL:HG12	20:BK:142:ARG:HG2	1.71	0.72
29:BT:45:VAL:CG2	29:BT:99:CYS:HA	2.12	0.72
32:BW:48:LEU:HD23	32:BW:48:LEU:N	2.03	0.72
10:AA:453:G:OP2	13:AD:1:MET:HG3	1.89	0.72
10:AA:1486:U:H5'	10:AA:1487:A:N3	2.04	0.72
10:BA:235:A:H5"	10:BA:236:U:O5'	1.89	0.72
10:BA:664:A:H2'	10:BA:665:A:C8	2.24	0.72
10:BA:1253:G:OP1	19:BJ:76:THR:HG21	1.88	0.72
10:BA:1555:A:H62	16:BG:52:GLN:HG2	1.54	0.72
14:BE:73:ALA:HB1	14:BE:75:HIS:CD2	2.24	0.72
27:BR:296:ALA:HB1	27:BR:310:PRO:HG2	1.71	0.72
32:BW:116:LEU:HD12	32:BW:120:GLU:CB	2.20	0.72
10:AA:192:C:O2'	10:AA:193:C:H5'	1.88	0.72
10:AA:271:U:H4'	10:AA:272:U:H5'	1.71	0.72
10:AA:760:G:N2	10:AA:766:G:N2	2.37	0.72
10:AA:770:G:H2'	10:AA:771:A:H8	1.49	0.72
12:AC:35:ALA:CB	12:AC:60:GLN:HB2	2.18	0.72
24:AO:101:ARG:HH12	24:AO:145:ALA:HA	1.55	0.72
30:AU:117:LYS:HA	30:AU:120:ILE:HD12	1.70	0.72
31:AV:114:ILE:HB	31:AV:115:PRO:CD	2.20	0.72
32:AW:47:LEU:CD1	32:AW:113:LEU:HD11	2.20	0.72
33:AX:63:HIS:O	33:AX:65:GLY:N	2.22	0.72
3:B3:196:LYS:HD3	3:B3:196:LYS:O	1.88	0.72
4:B4:64:LYS:HG2	4:B4:65:GLY:N	2.04	0.72
10:BA:492:C:H2'	10:BA:493:U:H6	1.55	0.72
10:BA:794:A:C2	10:BA:836:G:H1'	2.24	0.72
10:BA:1015:C:H5'	10:BA:1016:U:OP2	1.88	0.72
27:BR:77:HIS:CD2	27:BR:96:TRP:HB2	2.24	0.72
1:A1:41:LEU:HG	1:A1:63:GLU:HB2	1.70	0.72
2:A2:29:LYS:HZ1	10:AA:391:A:H62	1.36	0.72
2:A2:173:LEU:HB3	2:A2:191:LEU:HD12	1.70	0.72
7:A7:61:TRP:HE1	12:AC:26:SER:CB	2.03	0.72
11:AB:11:LYS:HD3	31:AV:93:ILE:O	1.90	0.72
14:AE:155:ILE:HG22	14:AE:156:PRO:HD2	1.71	0.72
14:AE:233:LYS:HD3	35:AZ:9:ARG:HG2	1.71	0.72
10:BA:886:U:C3'	10:BA:887:U:H5"	2.06	0.72
15:BF:17:THR:HG21	15:BF:39:PRO:HD3	1.69	0.72
17:BH:102:VAL:HB	17:BH:113:HIS:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:225:GLY:O	27:BR:242:ILE:HD12	1.89	0.72
29:BT:60:ARG:HH22	29:BT:83:PHE:HD2	1.35	0.72
2:A2:194:LYS:HE2	26:AQ:4:GLN:NE2	2.03	0.72
7:A7:38:PRO:HB2	7:A7:41:HIS:CD2	2.24	0.72
10:AA:625:G:H1	10:AA:946:U:H3	1.35	0.72
10:AA:894:U:H3	20:AK:55:ARG:HH12	1.35	0.72
18:AI:18:ALA:HA	18:AI:73:GLY:CA	2.19	0.72
21:AL:19:ARG:HH12	21:AL:22:GLN:HB2	1.53	0.72
28:AS:16:LYS:O	28:AS:16:LYS:HG3	1.88	0.72
34:AY:189:LEU:O	34:AY:193:VAL:HG23	1.90	0.72
7:B7:11:ARG:HG3	7:B7:15:GLN:NE2	2.04	0.72
10:BA:391:A:H4'	10:BA:392:A:H5'	1.72	0.72
14:BE:233:LYS:CG	14:BE:234:PRO:HD2	2.20	0.72
34:BY:189:LEU:O	34:BY:193:VAL:HG23	1.89	0.72
4:A4:43:LYS:HD2	4:A4:44:SER:H	1.55	0.72
10:AA:155:U:H5"	34:AY:83:CYS:C	2.15	0.72
10:AA:206:U:H5"	26:AQ:20:LYS:HD2	1.71	0.72
10:AA:206:U:H5"	26:AQ:20:LYS:CD	2.20	0.72
10:AA:445:U:O2	10:AA:445:U:H2'	1.90	0.72
10:AA:942:U:H2'	10:AA:942:U:O2	1.88	0.72
10:AA:1716:A:H2'	10:AA:1717:C:H5"	1.72	0.72
13:AD:158:PHE:N	13:AD:158:PHE:CD1	2.56	0.72
20:AK:119:LEU:O	20:AK:124:MET:HB2	1.89	0.72
32:AW:48:LEU:N	32:AW:48:LEU:HD23	2.04	0.72
2:B2:36:THR:H	2:B2:103:THR:HG23	1.55	0.72
8:B8:75:VAL:HG13	8:B8:79:LEU:HD13	1.69	0.72
9:B9:150:UNK:C	9:B9:153:UNK:HG3	2.20	0.72
10:BA:1:A:H5'	10:BA:2:A:OP2	1.89	0.72
10:BA:327:G:C2'	10:BA:328:G:H5"	2.20	0.72
10:BA:1714:U:O2'	10:BA:1715:A:H5'	1.87	0.72
12:BC:101:ALA:O	12:BC:105:VAL:HG23	1.89	0.72
13:BD:136:VAL:HG22	13:BD:156:ILE:HG23	1.72	0.72
5:A5:86:VAL:HG13	10:AA:1750:A:N1	2.04	0.72
10:AA:843:A:H2'	10:AA:844:G:H8	1.53	0.72
25:AP:12:VAL:O	25:AP:14:PRO:HD3	1.90	0.72
10:BA:192:C:O2'	10:BA:193:C:H5'	1.90	0.72
10:BA:622:G:H5'	24:BO:122:SER:OG	1.90	0.72
20:BK:121:ARG:HG3	20:BK:122:SER:N	2.04	0.72
27:BR:94:SER:HB3	27:BR:124:VAL:CG2	2.18	0.72
7:A7:69:ASN:HD21	7:A7:71:GLU:HB2	1.55	0.72
10:AA:3:C:H6	10:AA:3:C:H5'	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:162:A:C5'	34:AY:136:LYS:HB3	2.20	0.72
10:AA:841:A:O5'	17:AH:57:ARG:HD3	1.89	0.72
10:AA:1001:A:HO2'	10:AA:1002:U:H6	1.32	0.72
10:AA:1186:G:H1	10:AA:1420:U:H3	1.37	0.72
31:AV:57:LEU:O	31:AV:61:ILE:HG13	1.90	0.72
10:BA:63:U:H3'	10:BA:64:U:H5"	1.71	0.72
10:BA:271:U:H4'	10:BA:272:U:H5'	1.70	0.72
10:BA:316:G:O2'	10:BA:317:G:H5'	1.90	0.72
10:BA:1301:A:C2'	10:BA:1302:G:H5'	2.20	0.72
20:BK:45:THR:CG2	20:BK:49:GLY:HA2	2.20	0.72
20:BK:82:VAL:HG21	20:BK:122:SER:OG	1.90	0.72
25:BP:33:ALA:HB3	25:BP:38:ILE:HD11	1.70	0.72
28:BS:55:SER:HB2	28:BS:58:TYR:HD2	1.50	0.72
10:AA:235:A:H5"	10:AA:236:U:O5'	1.89	0.72
10:AA:1143:A:H2'	10:AA:1144:A:C8	2.25	0.72
14:AE:224:ARG:HD2	35:AZ:40:PHE:HZ	1.55	0.72
32:AW:37:LYS:HD2	32:AW:40:GLU:OE1	1.90	0.72
5:B5:15:ARG:HD3	5:B5:15:ARG:N	2.05	0.72
10:BA:84:U:H2'	10:BA:85:G:H5"	1.70	0.72
10:BA:1369:A:H2'	10:BA:1370:U:C6	2.24	0.72
11:BB:22:THR:HG22	11:BB:23:ILE:N	2.04	0.72
11:BB:75:ARG:HH12	11:BB:162:ARG:HA	1.54	0.72
11:BB:156:VAL:HG23	35:BZ:80:HIS:HB2	1.69	0.72
13:BD:158:PHE:N	13:BD:158:PHE:CD1	2.56	0.72
18:BI:101:GLU:OE2	18:BI:104:LYS:HD3	1.89	0.72
20:BK:62:VAL:HG12	20:BK:63:LYS:N	2.03	0.72
34:BY:39:ASP:C	34:BY:41:LEU:H	1.98	0.72
35:BZ:37:LYS:HG2	35:BZ:38:LEU:N	2.04	0.72
9:A9:150:UNK:C	9:A9:153:UNK:HG3	2.20	0.71
10:AA:141:A:C2	10:AA:162:A:N6	2.57	0.71
10:AA:1541:A:H1'	22:AM:147:VAL:HG21	1.72	0.71
10:BA:215:A:O2'	10:BA:216:G:H5'	1.89	0.71
10:BA:631:C:H5'	10:BA:631:C:H6	1.55	0.71
10:BA:1165:A:H4'	10:BA:1166:A:OP2	1.90	0.71
10:BA:1718:A:H3'	10:BA:1719:A:H5'	1.71	0.71
10:BA:1753:A:OP1	10:BA:1753:A:H8	1.72	0.71
15:BF:86:SER:HB2	15:BF:93:VAL:HG22	1.71	0.71
17:BH:46:TYR:O	17:BH:66:ILE:HD12	1.90	0.71
21:BL:69:LYS:HB3	21:BL:69:LYS:NZ	2.04	0.71
34:BY:64:LYS:NZ	34:BY:82:SER:H	1.88	0.71
1:A1:19:GLY:O	1:A1:21:ARG:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:63:ILE:HD11	3:A3:94:PHE:CD2	2.25	0.71
4:A4:73:ALA:HB2	20:AK:128:ARG:NH2	2.04	0.71
10:AA:45:A:N6	10:AA:425:A:H4'	2.05	0.71
10:AA:309:U:H2'	10:AA:310:C:C5'	2.19	0.71
10:AA:317:G:O6	10:AA:328:G:O6	2.06	0.71
10:AA:561:A:N3	33:AX:14:VAL:HG21	2.04	0.71
10:AA:1172:G:O2'	10:AA:1173:G:OP2	2.06	0.71
10:AA:1252:C:H5'	23:AN:43:ARG:HH12	1.55	0.71
10:AA:1555:A:H62	16:AG:52:GLN:HG2	1.54	0.71
11:AB:51:GLN:HE22	35:AZ:95:ILE:H	1.38	0.71
20:AK:121:ARG:HG3	20:AK:122:SER:N	2.04	0.71
21:AL:19:ARG:O	21:AL:23:ARG:HB2	1.90	0.71
28:AS:83:THR:HG23	28:AS:85:TYR:H	1.55	0.71
34:AY:39:ASP:C	34:AY:41:LEU:H	1.97	0.71
7:B7:56:GLU:O	7:B7:66:TYR:HA	1.90	0.71
10:BA:80:A:H2'	10:BA:81:A:O4'	1.90	0.71
10:AA:622:G:H5'	24:AO:122:SER:OG	1.91	0.71
10:AA:1430:C:H3'	22:AM:138:THR:CG2	2.20	0.71
11:AB:109:THR:HG22	11:AB:111:LYS:H	1.54	0.71
19:AJ:50:VAL:HG22	19:AJ:91:LEU:CD2	2.19	0.71
34:AY:132:LYS:NZ	34:AY:163:ARG:HB3	2.04	0.71
2:B2:84:THR:HG22	2:B2:85:LYS:H	1.54	0.71
8:B8:43:VAL:HG11	22:BM:57:ARG:HD2	1.71	0.71
10:BA:45:A:N6	10:BA:425:A:H4'	2.04	0.71
10:BA:481:A:H3'	10:BA:482:A:H5"	1.70	0.71
10:BA:1608:C:C4'	10:BA:1609:C:H5"	2.13	0.71
22:BM:132:LYS:NZ	22:BM:135:GLY:HA3	2.04	0.71
31:BV:57:LEU:O	31:BV:61:ILE:HG13	1.90	0.71
32:BW:108:LYS:HG3	32:BW:110:ARG:HH21	1.54	0.71
34:BY:7:TYR:HB3	34:BY:12:ALA:HB3	1.72	0.71
1:A1:18:THR:HG22	1:A1:19:GLY:N	2.03	0.71
2:A2:141:LYS:HZ2	2:A2:143:LYS:HE2	1.55	0.71
3:A3:196:LYS:O	3:A3:196:LYS:HD3	1.91	0.71
10:AA:5:U:O2'	10:AA:546:G:H4'	1.90	0.71
10:AA:391:A:C5'	10:AA:392:A:H5'	2.20	0.71
10:AA:1025:G:H1	10:AA:1043:U:H3	1.38	0.71
14:AE:66:PRO:HB2	14:AE:68:ASN:ND2	2.04	0.71
17:AH:46:TYR:O	17:AH:66:ILE:HD12	1.91	0.71
7:B7:69:ASN:HD21	7:B7:71:GLU:HB2	1.56	0.71
10:BA:3:C:O2'	10:BA:4:C:OP1	2.07	0.71
14:BE:163:SER:HB3	14:BE:210:ASN:ND2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:29:LYS:NZ	10:AA:391:A:H62	1.89	0.71
4:A4:64:LYS:HG2	4:A4:65:GLY:N	2.05	0.71
5:A5:77:ILE:HD13	10:AA:1746:G:H1	1.53	0.71
6:A6:42:GLN:NE2	6:A6:55:GLU:H	1.88	0.71
8:A8:32:LYS:HB3	15:BF:41:GLU:O	1.89	0.71
10:AA:512:C:C3'	10:AA:513:A:H5"	2.20	0.71
10:AA:1340:G:C2'	10:AA:1341:U:H5"	2.21	0.71
10:AA:1430:C:O2'	10:AA:1431:A:H5'	1.90	0.71
16:AG:12:LYS:HB3	16:AG:17:TRP:H	1.54	0.71
10:BA:391:A:C5'	10:BA:392:A:H5'	2.19	0.71
10:BA:1208:A:H2'	10:BA:1209:G:C8	2.25	0.71
10:BA:1463:U:O2	10:BA:1463:U:H2'	1.91	0.71
13:BD:93:LEU:HD23	13:BD:96:VAL:HG21	1.73	0.71
16:BG:24:ILE:HD11	16:BG:36:THR:OG1	1.91	0.71
20:BK:75:MET:HG2	20:BK:121:ARG:NH2	2.05	0.71
28:BS:16:LYS:HG3	28:BS:16:LYS:O	1.90	0.71
10:AA:684:A:H2'	10:AA:685:A:C4	2.25	0.71
10:AA:1200:G:H8	10:AA:1200:G:O5'	1.74	0.71
12:AC:167:LYS:O	12:AC:171:ILE:HB	1.90	0.71
21:AL:101:VAL:CG1	21:AL:123:VAL:HG13	2.21	0.71
27:AR:186:TYR:HB3	27:AR:206:ARG:NH1	2.05	0.71
28:AS:46:THR:HG23	28:AS:89:ILE:CD1	2.21	0.71
32:AW:62:THR:O	32:AW:66:ASN:HB2	1.91	0.71
2:B2:78:GLU:O	2:B2:79:ASN:HB3	1.91	0.71
7:B7:13:TYR:HD2	7:B7:76:LEU:HD22	1.56	0.71
9:B9:150:UNK:CA	9:B9:153:UNK:HG3	2.21	0.71
10:BA:1034:A:O2'	10:BA:1035:A:OP2	2.06	0.71
19:BJ:50:VAL:HG22	19:BJ:91:LEU:CD2	2.21	0.71
24:BO:28:LEU:HD12	24:BO:29:HIS:H	1.56	0.71
26:BQ:35:LYS:HG2	26:BQ:36:ASN:H	1.54	0.71
27:BR:235:LYS:HZ3	27:BR:256:SER:H	1.38	0.71
29:BT:15:ALA:HA	29:BT:18:PHE:HB3	1.72	0.71
3:A3:63:ILE:O	3:A3:63:ILE:HG13	1.90	0.71
3:A3:103:LYS:HA	3:A3:113:ARG:HH12	1.55	0.71
8:A8:27:LYS:HE2	10:AA:1509:U:H5	1.55	0.71
10:AA:246:U:O4	26:AQ:14:GLY:HA3	1.91	0.71
10:AA:840:A:H2'	10:AA:941:A:H61	1.55	0.71
10:AA:1718:A:H3'	10:AA:1719:A:H5'	1.72	0.71
14:AE:228:PRO:HB3	17:AH:68:ARG:NH2	2.04	0.71
27:AR:181:GLN:HB3	27:AR:182:PRO:HD2	1.73	0.71
34:AY:87:ARG:O	34:AY:88:ARG:HB3	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:201:ARG:NH2	26:BQ:1:MET:HE3	2.06	0.71
8:B8:43:VAL:HB	22:BM:25:LYS:HZ1	1.54	0.71
10:BA:932:G:H5'	24:BO:7:LYS:HZ1	1.55	0.71
11:BB:118:LEU:C	11:BB:119:ILE:HD12	2.16	0.71
14:BE:45:LEU:HD12	14:BE:48:ILE:HD12	1.72	0.71
14:BE:83:GLN:OE1	14:BE:208:ARG:HB3	1.90	0.71
16:BG:83:LEU:HD23	16:BG:84:CYS:N	2.05	0.71
10:AA:107:U:O2'	10:AA:108:A:H5'	1.91	0.71
10:AA:145:G:O2'	34:AY:13:GLN:HG3	1.91	0.71
10:AA:147:G:H5'	34:AY:15:CYS:SG	2.30	0.71
10:AA:585:A:H2'	10:AA:586:A:C8	2.26	0.71
14:AE:227:THR:HB	14:AE:228:PRO:HD2	1.73	0.71
14:AE:228:PRO:HA	14:AE:231:TRP:HD1	1.54	0.71
15:AF:86:SER:HB2	15:AF:93:VAL:HG22	1.71	0.71
20:AK:55:ARG:O	20:AK:55:ARG:HG2	1.88	0.71
20:AK:75:MET:HG2	20:AK:121:ARG:NH2	2.04	0.71
27:AR:77:HIS:CD2	27:AR:96:TRP:HB2	2.26	0.71
27:AR:275:ASP:HB3	27:AR:311:GLN:HG2	1.73	0.71
27:AR:296:ALA:HB1	27:AR:310:PRO:HG2	1.72	0.71
32:AW:92:VAL:HG23	32:AW:101:PHE:HB2	1.72	0.71
34:AY:136:LYS:O	34:AY:179:ILE:HG23	1.90	0.71
2:B2:105:VAL:HG13	10:BA:320:G:H4'	1.72	0.71
9:B9:146:UNK:HA	9:B9:149:UNK:CG	2.20	0.71
10:BA:271:U:H4'	10:BA:272:U:OP1	1.90	0.71
10:BA:1555:A:O2'	10:BA:1556:G:O5'	2.06	0.71
10:BA:1575:U:H2'	10:BA:1576:U:C6	2.25	0.71
12:BC:167:LYS:O	12:BC:171:ILE:HB	1.90	0.71
34:BY:207:ALA:O	34:BY:211:GLU:HB2	1.90	0.71
35:BZ:34:TRP:O	35:BZ:35:SER:HB3	1.89	0.71
10:AA:785:G:N3	17:AH:107:THR:HG21	2.05	0.71
13:AD:100:THR:CG2	13:AD:102:HIS:HB3	2.21	0.71
20:AK:21:VAL:HG12	20:AK:22:GLY:N	2.04	0.71
22:AM:26:ARG:O	22:AM:57:ARG:HD3	1.91	0.71
27:AR:94:SER:HB3	27:AR:124:VAL:CG2	2.19	0.71
2:B2:195:GLU:HB3	26:BQ:10:GLN:HE21	1.53	0.71
10:BA:91:G:OP2	32:BW:3:ARG:CZ	2.39	0.71
10:BA:669:G:C3'	10:BA:670:G:H5"	2.21	0.71
10:BA:1469:U:OP1	29:BT:75:GLY:HA3	1.91	0.71
13:BD:80:MET:HE3	13:BD:96:VAL:HG13	1.71	0.71
19:BJ:49:GLU:CB	19:BJ:92:THR:HB	2.17	0.71
24:BO:49:PRO:HG3	24:BO:74:LEU:HD23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BP:69:GLY:C	25:BP:70:PHE:HD1	1.99	0.71
32:BW:159:GLY:O	32:BW:177:LEU:HD22	1.91	0.71
9:A9:150:UNK:CA	9:A9:153:UNK:HG3	2.20	0.71
10:AA:63:U:H5'	10:AA:64:U:OP2	1.89	0.71
10:AA:80:A:H2'	10:AA:81:A:O4'	1.90	0.71
10:AA:328:G:H2'	26:AQ:132:LYS:HE2	1.73	0.71
10:AA:669:G:C3'	10:AA:670:G:H5"	2.21	0.71
10:AA:681:G:H1	10:AA:719:G:N2	1.88	0.71
10:AA:1137:A:H2'	10:AA:1138:A:H8	1.54	0.71
10:AA:1579:G:C8	18:AI:126:MET:HE3	2.26	0.71
20:AK:148:GLY:O	20:AK:150:ARG:HG3	1.91	0.71
27:AR:100:LEU:HD21	27:AR:135:SER:HB3	1.73	0.71
27:AR:275:ASP:HA	27:AR:311:GLN:HB3	1.73	0.71
34:AY:165:PHE:CE1	34:AY:173:ARG:HB2	2.25	0.71
1:B1:17:LYS:HE3	10:BA:1588:G:H4'	1.72	0.71
10:BA:1245:G:O2'	10:BA:1246:C:OP2	2.06	0.71
10:BA:1573:G:N2	29:BT:91:ASN:HB3	2.05	0.71
11:BB:27:ASN:O	11:BB:30:LYS:HB2	1.90	0.71
29:BT:99:CYS:SG	29:BT:100:HIS:N	2.63	0.71
2:A2:138:LEU:HD11	2:A2:153:ARG:NH1	2.06	0.70
6:A6:65:THR:HG22	6:A6:66:GLY:N	2.05	0.70
8:A8:63:VAL:HG22	16:AG:97:LEU:CB	2.21	0.70
8:A8:72:LYS:HB2	8:A8:73:LEU:HD23	1.71	0.70
10:AA:1165:A:H4'	10:AA:1166:A:OP2	1.90	0.70
10:AA:1188:A:H2'	10:AA:1415:A:N1	2.06	0.70
18:AI:41:ILE:CD1	18:AI:50:ILE:HD12	2.21	0.70
10:BA:538:A:O2'	10:BA:539:U:C6	2.43	0.70
10:BA:1170:G:OP1	19:BJ:66:ARG:NH1	2.24	0.70
11:BB:79:GLN:O	11:BB:83:ILE:HG13	1.90	0.70
25:BP:21:LEU:HD23	25:BP:21:LEU:N	2.06	0.70
32:BW:37:LYS:HD2	32:BW:40:GLU:OE1	1.91	0.70
5:A5:58:ALA:HB2	20:AK:125:LYS:HB3	1.71	0.70
10:AA:23:A:OP1	13:AD:14:THR:HG21	1.91	0.70
10:AA:292:G:H3'	10:AA:293:U:H6	1.57	0.70
10:AA:1381:A:H2'	10:AA:1382:A:O4'	1.91	0.70
27:AR:57:TYR:HB2	27:AR:65:PHE:O	1.91	0.70
1:B1:24:ILE:HG23	1:B1:45:VAL:O	1.91	0.70
10:BA:440:C:O2'	10:BA:441:C:H5'	1.92	0.70
18:BI:18:ALA:HA	18:BI:73:GLY:CA	2.20	0.70
28:BS:98:ILE:O	28:BS:98:ILE:HG13	1.90	0.70
30:BU:54:ASN:O	30:BU:58:LEU:HG	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:9:LEU:HD12	32:BW:10:LYS:H	1.56	0.70
32:BW:123:TYR:HA	32:BW:164:TYR:O	1.91	0.70
4:A4:220:LYS:NZ	10:AA:864:U:OP1	2.24	0.70
10:AA:191:A:H2'	10:AA:192:C:C6	2.25	0.70
10:AA:327:G:C2'	10:AA:328:G:H5"	2.20	0.70
27:AR:274:THR:HG22	27:AR:277:GLY:O	1.91	0.70
34:AY:132:LYS:CE	34:AY:163:ARG:HD3	2.21	0.70
5:B5:89:ARG:HD3	10:BA:1750:A:N6	2.05	0.70
6:B6:65:THR:HG22	6:B6:66:GLY:N	2.06	0.70
10:BA:445:U:O2	10:BA:445:U:H2'	1.91	0.70
10:BA:1716:A:H2'	10:BA:1717:C:H5"	1.73	0.70
32:BW:126:LEU:HD22	32:BW:143:THR:HG21	1.74	0.70
2:A2:8:LYS:HD3	2:A2:18:MET:HE1	1.71	0.70
3:A3:20:GLY:O	3:A3:24:VAL:HG23	1.91	0.70
12:AC:205:VAL:CG1	12:AC:206:LYS:N	2.54	0.70
15:AF:51:TRP:NE1	15:AF:84:PHE:CE2	2.54	0.70
21:AL:69:LYS:NZ	21:AL:92:LEU:HD23	2.06	0.70
27:AR:180:VAL:CG1	27:AR:181:GLN:H	1.97	0.70
35:AZ:11:LYS:HB3	35:AZ:12:PRO:HD2	1.73	0.70
2:B2:138:LEU:HD11	2:B2:153:ARG:NH1	2.05	0.70
5:B5:57:LEU:HD12	5:B5:58:ALA:H	1.57	0.70
9:B9:150:UNK:O	9:B9:153:UNK:HG3	1.92	0.70
10:BA:760:G:N2	10:BA:766:G:N2	2.40	0.70
10:BA:845:G:H1	10:BA:939:U:H3	1.37	0.70
10:BA:1171:G:H1'	19:BJ:66:ARG:NH1	2.06	0.70
10:BA:1263:G:N2	10:BA:1296:G:H1	1.88	0.70
32:BW:62:THR:O	32:BW:66:ASN:HB2	1.91	0.70
8:A8:27:LYS:HE2	10:AA:1509:U:C5	2.26	0.70
9:A9:126:ALA:HB2	10:AA:1224:C:O4'	1.91	0.70
10:AA:440:C:O2'	10:AA:441:C:H5'	1.91	0.70
10:AA:1418:C:H5'	10:AA:1418:C:C6	2.27	0.70
12:AC:101:ALA:O	12:AC:105:VAL:HG23	1.92	0.70
16:AG:35:CYS:H	16:AG:63:ILE:HD11	1.56	0.70
22:AM:35:ILE:HD12	22:AM:38:ILE:HD12	1.73	0.70
25:AP:69:GLY:C	25:AP:70:PHE:HD1	1.99	0.70
34:AY:5:ILE:HD11	34:AY:111:LEU:HD12	1.73	0.70
1:B1:7:THR:HG23	1:B1:33:SER:HB3	1.73	0.70
7:B7:38:PRO:HB2	7:B7:41:HIS:CD2	2.26	0.70
10:BA:141:A:C2	10:BA:162:A:N6	2.60	0.70
10:BA:292:G:H3'	10:BA:293:U:H6	1.56	0.70
10:BA:795:A:H62	10:BA:836:G:H2'	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:71:PHE:CE2	32:BW:250:ILE:HG21	2.26	0.70
14:BE:227:THR:HB	14:BE:228:PRO:HD2	1.72	0.70
18:BI:40:MET:HE3	29:BT:14:ALA:HA	1.74	0.70
27:BR:57:TYR:HB2	27:BR:65:PHE:O	1.91	0.70
27:BR:181:GLN:HB3	27:BR:182:PRO:HD2	1.73	0.70
8:A8:58:SER:HB2	8:A8:113:GLU:HB2	1.74	0.70
10:AA:84:U:C2'	10:AA:85:G:H5"	2.21	0.70
10:AA:605:U:O2	10:AA:605:U:H2'	1.91	0.70
10:AA:840:A:H2'	10:AA:941:A:N6	2.07	0.70
10:AA:1555:A:N6	16:AG:52:GLN:HG2	2.07	0.70
11:AB:164:THR:HG21	11:AB:200:HIS:H	1.56	0.70
32:AW:31:PRO:HB2	32:AW:38:LEU:HD23	1.74	0.70
35:AZ:37:LYS:HG2	35:AZ:38:LEU:N	2.06	0.70
2:B2:39:THR:C	2:B2:41:GLN:H	1.97	0.70
9:B9:81:THR:CG2	9:B9:83:LYS:HG2	2.21	0.70
10:BA:59:C:C3'	10:BA:60:C:H5"	2.21	0.70
10:BA:89:A:C4	10:BA:390:A:H2	2.09	0.70
10:BA:1229:U:O2	10:BA:1230:U:H5'	1.92	0.70
10:BA:1605:A:O2'	10:BA:1606:C:OP2	2.08	0.70
11:BB:118:LEU:HD12	11:BB:119:ILE:H	1.55	0.70
12:BC:96:PHE:HB3	12:BC:132:ASP:OD1	1.91	0.70
20:BK:21:VAL:HG12	20:BK:22:GLY:N	2.05	0.70
27:BR:146:ASN:C	27:BR:148:LEU:H	1.99	0.70
27:BR:197:LYS:HG2	27:BR:208:THR:HB	1.73	0.70
34:BY:5:ILE:HD11	34:BY:111:LEU:HD12	1.71	0.70
1:A1:19:GLY:C	1:A1:21:ARG:H	1.97	0.70
10:AA:59:C:C3'	10:AA:60:C:H5"	2.21	0.70
10:AA:271:U:H4'	10:AA:272:U:OP1	1.89	0.70
10:AA:734:U:H2'	10:AA:735:G:H8	1.57	0.70
10:AA:1668:U:H2'	10:AA:1669:G:C8	2.27	0.70
11:AB:25:LEU:HD11	11:AB:42:HIS:CE1	2.26	0.70
14:AE:231:TRP:NE1	17:AH:68:ARG:CZ	2.49	0.70
16:AG:57:ARG:HH11	16:AG:57:ARG:CA	1.94	0.70
26:AQ:39:LEU:HA	32:AW:204:GLN:NE2	2.06	0.70
32:AW:193:ARG:HH12	32:AW:246:VAL:HG13	1.56	0.70
34:AY:181:ARG:HH11	34:AY:181:ARG:HG2	1.56	0.70
2:B2:23:LYS:HE3	10:BA:382:A:OP2	1.90	0.70
10:BA:3:C:H6	10:BA:3:C:H5'	1.56	0.70
10:BA:158:G:H5"	34:BY:112:GLN:HE21	1.57	0.70
10:BA:584:C:OP1	33:BX:44:ARG:NH2	2.24	0.70
10:BA:1582:G:HO2'	10:BA:1583:A:H8	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BC:82:TYR:O	12:BC:84:ASP:N	2.25	0.70
18:BI:23:SER:OG	18:BI:68:ARG:HG3	1.92	0.70
18:BI:71:VAL:HG21	18:BI:83:ILE:HG12	1.74	0.70
27:BR:226:LYS:O	27:BR:242:ILE:HG13	1.92	0.70
9:A9:109:VAL:HG21	30:AU:61:ALA:HB1	1.72	0.70
10:AA:632:U:H4'	10:AA:633:U:OP2	1.91	0.70
10:AA:794:A:C2	10:AA:836:G:H1'	2.27	0.70
10:AA:1015:C:H5'	10:AA:1016:U:OP2	1.92	0.70
3:B3:127:LEU:O	3:B3:131:LEU:HG	1.92	0.70
9:B9:108:LYS:HA	30:BU:65:LYS:HE3	1.73	0.70
10:BA:513:A:H8	10:BA:513:A:H5'	1.57	0.70
10:BA:533:G:N2	10:BA:535:A:N1	2.36	0.70
10:BA:841:A:O5'	17:BH:57:ARG:HD3	1.92	0.70
24:BO:101:ARG:HH12	24:BO:145:ALA:HA	1.56	0.70
27:BR:17:LEU:HB3	27:BR:54:TRP:CZ3	2.26	0.70
30:BU:70:TYR:CE2	30:BU:126:ALA:HB3	2.26	0.70
32:BW:193:ARG:HH12	32:BW:246:VAL:HG13	1.57	0.70
7:A7:6:LYS:O	7:A7:10:ILE:HG13	1.92	0.70
10:AA:162:A:H5"	34:AY:136:LYS:HB3	1.72	0.70
10:AA:970:A:H2'	10:AA:971:A:H5'	1.74	0.70
10:AA:1278:C:O2	10:AA:1278:C:H2'	1.90	0.70
10:AA:1675:A:H5"	34:AY:75:LEU:HD13	1.73	0.70
14:AE:45:LEU:HD12	14:AE:48:ILE:HD12	1.74	0.70
14:AE:101:GLY:O	14:AE:116:TRP:HA	1.92	0.70
16:AG:45:PRO:CG	16:AG:85:ILE:HG23	2.22	0.70
25:AP:21:LEU:HD23	25:AP:21:LEU:N	2.06	0.70
27:AR:174:MET:CE	27:AR:178:ASN:HB2	2.22	0.70
10:BA:833:A:H2'	10:BA:834:A:OP1	1.92	0.70
10:BA:1290:G:O2'	10:BA:1291:U:H5'	1.92	0.70
11:BB:191:TRP:NE1	11:BB:193:VAL:HB	2.07	0.70
18:BI:7:GLN:HG3	18:BI:98:TYR:CE2	2.26	0.70
21:BL:19:ARG:O	21:BL:23:ARG:HB2	1.92	0.70
28:BS:58:TYR:CD1	28:BS:88:MET:HE2	2.27	0.70
32:BW:35:PRO:HD2	32:BW:85:PRO:HG2	1.74	0.70
34:BY:12:ALA:HB1	34:BY:124:LEU:HA	1.74	0.70
4:A4:108:ILE:HG22	4:A4:109:THR:N	2.06	0.70
10:AA:265:C:OP1	34:AY:180:GLN:NE2	2.25	0.70
10:AA:942:U:O2'	10:AA:943:U:H5"	1.91	0.70
10:AA:1603:A:N7	10:AA:1717:C:C1'	2.55	0.70
12:AC:196:GLU:CG	12:AC:203:PHE:HB2	2.22	0.70
20:AK:138:ASP:OD1	20:AK:139:SER:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AP:85:PRO:HD2	25:AP:88:ARG:HD2	1.72	0.70
27:AR:267:LEU:H	27:AR:267:LEU:CD1	2.05	0.70
29:AT:9:THR:HG22	29:AT:10:VAL:N	2.06	0.70
32:AW:123:TYR:HA	32:AW:164:TYR:O	1.91	0.70
1:B1:20:SER:C	1:B1:22:GLY:H	1.99	0.70
7:B7:16:LEU:HD13	7:B7:76:LEU:HD11	1.73	0.70
10:BA:8:U:O4	10:BA:15:U:O4	2.10	0.70
10:BA:63:U:H5'	10:BA:64:U:OP2	1.92	0.70
10:BA:1366:G:O2'	10:BA:1367:C:H5'	1.92	0.70
10:BA:1494:U:H2'	10:BA:1494:U:O2	1.91	0.70
12:BC:205:VAL:CG1	12:BC:206:LYS:N	2.54	0.70
22:BM:26:ARG:O	22:BM:57:ARG:HD3	1.91	0.70
2:A2:40:THR:HG21	2:A2:87:LEU:HD12	1.74	0.69
4:A4:108:ILE:HD11	4:A4:219:ARG:HA	1.74	0.69
8:A8:27:LYS:HG2	10:AA:1509:U:C5	2.27	0.69
10:AA:588:A:H4'	10:AA:589:G:O5'	1.92	0.69
10:AA:867:U:H6	10:AA:867:U:C5'	2.05	0.69
10:AA:938:U:H5'	24:AO:57:ARG:HE	1.57	0.69
10:AA:971:A:H62	10:AA:989:G:H21	1.40	0.69
10:AA:1055:G:O2'	10:AA:1056:A:H5'	1.91	0.69
10:AA:1137:A:H2'	10:AA:1138:A:C8	2.27	0.69
10:AA:1279:U:O2'	10:AA:1280:G:H5'	1.92	0.69
16:AG:158:PHE:CD2	16:AG:159:LYS:HG3	2.27	0.69
23:AN:33:TYR:O	23:AN:33:TYR:CD1	2.44	0.69
25:AP:27:HIS:HE1	25:AP:67:SER:OG	1.75	0.69
28:AS:58:TYR:CD1	28:AS:88:MET:HE2	2.27	0.69
31:AV:21:TYR:HB3	31:AV:74:GLN:OE1	1.92	0.69
3:B3:15:ILE:O	3:B3:19:VAL:HG23	1.92	0.69
4:B4:184:LYS:HG2	4:B4:184:LYS:O	1.92	0.69
7:B7:47:ARG:HB2	7:B7:50:LYS:HE2	1.74	0.69
10:BA:191:A:H2'	10:BA:192:C:C6	2.27	0.69
10:BA:246:U:O4	26:BQ:14:GLY:HA3	1.92	0.69
10:BA:866:U:H3	10:BA:902:G:H1	1.39	0.69
12:BC:228:ARG:HG2	27:BR:243:LEU:C	2.17	0.69
20:BK:148:GLY:O	20:BK:150:ARG:HG3	1.92	0.69
29:BT:108:LEU:HD13	29:BT:130:ARG:HG3	1.73	0.69
10:AA:1463:U:H2'	10:AA:1463:U:O2	1.91	0.69
10:AA:1494:U:O2	10:AA:1494:U:H2'	1.90	0.69
16:AG:24:ILE:HD11	16:AG:36:THR:OG1	1.92	0.69
26:AQ:44:PRO:HG2	26:AQ:47:ALA:HB2	1.74	0.69
27:AR:197:LYS:HG2	27:AR:208:THR:HB	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AR:293:THR:HG21	27:AR:336:PHE:CE2	2.27	0.69
6:B6:33:VAL:HG21	6:B6:44:ILE:HD12	1.74	0.69
10:BA:512:C:C3'	10:BA:513:A:H5"	2.22	0.69
10:BA:1090:G:H1	10:BA:1102:U:H3	1.40	0.69
10:BA:1318:C:O2'	10:BA:1319:U:OP2	2.10	0.69
12:BC:15:VAL:O	12:BC:19:VAL:HG23	1.92	0.69
12:BC:196:GLU:CG	12:BC:203:PHE:HB2	2.23	0.69
25:BP:85:PRO:HD2	25:BP:88:ARG:HD2	1.74	0.69
27:BR:100:LEU:HD21	27:BR:135:SER:HB3	1.73	0.69
34:BY:64:LYS:HZ1	34:BY:82:SER:H	1.40	0.69
5:A5:15:ARG:HD3	5:A5:15:ARG:N	2.05	0.69
10:AA:158:G:H5"	34:AY:112:GLN:NE2	2.06	0.69
10:AA:1001:A:O2'	10:AA:1002:U:H6	1.76	0.69
10:AA:1421:G:H4'	23:AN:6:TRP:HE3	1.57	0.69
28:AS:97:GLY:O	28:AS:112:VAL:HG23	1.93	0.69
32:AW:206:SER:O	32:AW:207:PHE:HB2	1.92	0.69
1:B1:19:GLY:C	1:B1:21:ARG:H	1.98	0.69
3:B3:20:GLY:O	3:B3:24:VAL:HG23	1.93	0.69
10:BA:494:A:N1	33:BX:48:HIS:HB3	2.06	0.69
10:BA:533:G:N7	33:BX:28:ARG:HD2	2.07	0.69
32:BW:93:ARG:HA	32:BW:99:GLN:O	1.92	0.69
35:BZ:13:MET:CE	35:BZ:31:LYS:HD3	2.23	0.69
35:BZ:83:LEU:O	35:BZ:87:LEU:HG	1.91	0.69
4:A4:144:ALA:HB1	4:A4:213:LEU:HD13	1.74	0.69
4:A4:184:LYS:HG2	4:A4:184:LYS:O	1.93	0.69
18:AI:17:ASN:H	18:AI:125:ARG:NH1	1.91	0.69
4:B4:144:ALA:HB1	4:B4:213:LEU:HD13	1.74	0.69
10:BA:23:A:OP1	13:BD:14:THR:HG21	1.91	0.69
10:BA:135:A:O2'	10:BA:136:U:OP2	2.08	0.69
10:BA:225:C:H5'	10:BA:225:C:H6	1.57	0.69
10:BA:734:U:H2'	10:BA:735:G:H8	1.57	0.69
10:BA:1143:A:H2'	10:BA:1144:A:C8	2.27	0.69
22:BM:16:ARG:HH22	22:BM:20:THR:HA	1.57	0.69
27:BR:186:TYR:HB3	27:BR:206:ARG:NH1	2.07	0.69
28:BS:33:LEU:HD11	28:BS:59:ALA:HA	1.74	0.69
32:BW:47:LEU:HD11	32:BW:113:LEU:HD11	1.74	0.69
2:A2:201:ARG:HH22	26:AQ:1:MET:HE3	1.57	0.69
10:AA:336:U:O2'	10:AA:337:G:H8	1.72	0.69
10:AA:1263:G:H21	10:AA:1296:G:H22	1.39	0.69
10:AA:1290:G:O2'	10:AA:1291:U:H5'	1.93	0.69
10:AA:1511:A:C5'	22:AM:40:ARG:HH12	1.97	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:10:ILE:O	11:AB:14:LEU:HB2	1.92	0.69
11:AB:60:ILE:O	11:AB:63:VAL:HG22	1.93	0.69
11:AB:75:ARG:HH12	11:AB:162:ARG:HA	1.54	0.69
14:AE:163:SER:HB3	14:AE:210:ASN:ND2	2.05	0.69
14:AE:207:THR:CG2	14:AE:210:ASN:HB2	2.22	0.69
32:AW:163:LYS:HB2	32:AW:237:TRP:HZ3	1.58	0.69
8:B8:69:VAL:HG11	8:B8:80:ALA:HB1	1.74	0.69
9:B9:138:HIS:NE2	10:BA:1206:A:H4'	2.07	0.69
10:BA:765:A:O2'	10:BA:766:G:OP2	2.09	0.69
10:BA:1002:U:O2'	10:BA:1003:A:H5'	1.93	0.69
10:BA:1200:G:H8	10:BA:1200:G:O5'	1.75	0.69
32:BW:47:LEU:CD1	32:BW:113:LEU:HD11	2.22	0.69
32:BW:120:GLU:HG2	32:BW:239:GLU:OE2	1.92	0.69
2:A2:39:THR:C	2:A2:41:GLN:H	1.99	0.69
2:A2:87:LEU:CD2	2:A2:171:ARG:HH11	2.05	0.69
10:AA:89:A:C4	10:AA:390:A:H2	2.11	0.69
10:AA:231:U:H2'	10:AA:232:G:H5"	1.74	0.69
10:AA:1259:A:O2'	10:AA:1260:G:C8	2.46	0.69
10:AA:1573:G:N2	29:AT:91:ASN:HB3	2.08	0.69
16:AG:44:VAL:HG12	16:AG:45:PRO:HD2	1.74	0.69
17:AH:49:GLU:OE1	35:AZ:1:MET:HG3	1.92	0.69
20:AK:46:ASP:OD2	20:AK:48:SER:OG	2.10	0.69
24:AO:55:ILE:HG23	24:AO:59:GLN:HG3	1.74	0.69
25:AP:42:LEU:HD23	25:AP:53:VAL:HG11	1.74	0.69
27:AR:214:SER:HB3	27:AR:233:LYS:HB2	1.74	0.69
10:BA:1406:G:H4'	10:BA:1407:A:O5'	1.92	0.69
14:BE:224:ARG:HD2	35:BZ:40:PHE:HZ	1.55	0.69
20:BK:56:VAL:HG11	20:BK:77:ALA:HA	1.73	0.69
22:BM:125:LEU:O	22:BM:129:TRP:CD1	2.41	0.69
27:BR:107:THR:O	27:BR:109:THR:N	2.25	0.69
32:BW:37:LYS:HG3	32:BW:40:GLU:HB2	1.74	0.69
34:BY:87:ARG:O	34:BY:88:ARG:HB3	1.92	0.69
2:A2:95:ASN:HD22	10:AA:332:A:H4'	1.57	0.69
6:A6:67:GLY:HA2	10:AA:935:G:O2'	1.92	0.69
8:A8:63:VAL:HG22	16:AG:97:LEU:HB3	1.75	0.69
10:AA:1033:A:O2'	10:AA:1034:A:H5'	1.92	0.69
10:AA:1174:A:C2'	10:AA:1175:A:H5'	2.22	0.69
10:AA:1366:G:O2'	10:AA:1367:C:H5'	1.92	0.69
10:AA:1442:A:C8	10:AA:1512:G:H1'	2.28	0.69
11:AB:5:ARG:HA	11:AB:5:ARG:NH1	2.03	0.69
13:AD:93:LEU:HD23	13:AD:96:VAL:HG21	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AI:7:GLN:HG3	18:AI:98:TYR:CE2	2.27	0.69
28:AS:91:ILE:HG23	28:AS:92:PRO:HD2	1.74	0.69
30:AU:76:ARG:HG3	30:AU:99:GLY:HA3	1.73	0.69
4:B4:89:LEU:CB	4:B4:101:THR:HG21	2.22	0.69
10:BA:75:C:O5'	10:BA:75:C:H6	1.75	0.69
10:BA:1514:G:C5'	29:BT:90:GLY:HA2	2.22	0.69
15:BF:73:LEU:HD23	15:BF:73:LEU:N	2.07	0.69
21:BL:112:ALA:HB2	21:BL:119:VAL:O	1.92	0.69
1:A1:24:ILE:HG23	1:A1:45:VAL:O	1.93	0.69
4:A4:121:GLN:NE2	4:A4:145:PHE:HD2	1.90	0.69
10:AA:84:U:C2'	10:AA:85:G:C5'	2.71	0.69
10:AA:225:C:H5'	10:AA:225:C:H6	1.58	0.69
10:AA:533:G:N2	10:AA:535:A:N1	2.36	0.69
10:AA:1178:U:O3'	23:AN:26:ARG:HD2	1.93	0.69
11:AB:45:ASN:HD21	31:AV:109:LEU:CD1	2.06	0.69
11:AB:98:ARG:NH1	11:AB:101:PRO:HD2	2.08	0.69
13:AD:63:ASP:OD1	13:AD:64:PRO:HD2	1.92	0.69
22:AM:72:LEU:HA	22:AM:79:HIS:NE2	2.07	0.69
27:AR:92:ILE:HB	27:AR:124:VAL:HG11	1.75	0.69
30:AU:39:LYS:HE3	30:AU:66:ASN:O	1.92	0.69
34:AY:207:ALA:O	34:AY:211:GLU:HB2	1.91	0.69
2:B2:87:LEU:CD2	2:B2:171:ARG:HH11	2.05	0.69
4:B4:26:LEU:HD12	20:BK:84:ARG:NH2	2.07	0.69
8:B8:58:SER:HB2	8:B8:113:GLU:HB2	1.74	0.69
10:BA:90:U:OP1	32:BW:3:ARG:HB2	1.91	0.69
10:BA:309:U:H2'	10:BA:310:C:C5'	2.20	0.69
10:BA:618:G:O2'	10:BA:619:C:H5'	1.93	0.69
10:BA:770:G:H2'	10:BA:771:A:H8	1.50	0.69
10:BA:1278:C:H2'	10:BA:1278:C:O2	1.89	0.69
10:BA:1555:A:N6	16:BG:52:GLN:HG2	2.08	0.69
10:BA:1566:G:O2'	23:BN:29:LEU:HD11	1.91	0.69
10:BA:1580:U:H5"	18:BI:74:SER:HB2	1.75	0.69
11:BB:51:GLN:HE22	35:BZ:95:ILE:H	1.41	0.69
14:BE:101:GLY:O	14:BE:116:TRP:HA	1.92	0.69
16:BG:158:PHE:HD2	16:BG:159:LYS:HG3	1.55	0.69
20:BK:84:ARG:O	20:BK:84:ARG:HD2	1.92	0.69
26:BQ:21:LYS:HE3	26:BQ:31:VAL:CG2	2.21	0.69
29:BT:25:HIS:HA	29:BT:28:LYS:HE2	1.73	0.69
34:BY:160:VAL:HG12	34:BY:161:ILE:N	2.00	0.69
2:A2:14:THR:HG23	10:AA:339:C:H1'	1.74	0.69
7:A7:56:GLU:O	7:A7:66:TYR:HA	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:147:G:C5'	34:AY:15:CYS:SG	2.81	0.69
10:AA:721:A:H2'	10:AA:722:A:C8	2.28	0.69
10:AA:895:U:O2'	20:AK:43:HIS:HD2	1.76	0.69
10:AA:1406:G:H4'	10:AA:1407:A:O5'	1.92	0.69
10:AA:1732:U:H6	10:AA:1732:U:C5'	2.00	0.69
14:AE:231:TRP:CE2	17:AH:68:ARG:HG3	2.27	0.69
28:AS:14:ARG:HB3	28:AS:114:PHE:CD2	2.28	0.69
35:AZ:13:MET:CE	35:AZ:31:LYS:HD3	2.22	0.69
2:B2:201:ARG:HH22	26:BQ:1:MET:HE3	1.57	0.69
7:B7:99:PHE:CZ	12:BC:69:HIS:NE2	2.61	0.69
10:BA:73:A:O2'	10:BA:74:A:OP2	2.11	0.69
10:BA:295:U:H2'	10:BA:296:C:C6	2.28	0.69
10:BA:572:U:H5"	10:BA:573:A:OP1	1.93	0.69
10:BA:632:U:H4'	10:BA:633:U:OP2	1.93	0.69
10:BA:955:A:H2'	10:BA:956:A:C5'	2.23	0.69
10:BA:1551:U:H1'	18:BI:141:GLN:HE22	1.57	0.69
11:BB:194:MET:CE	31:BV:89:SER:H	2.05	0.69
12:BC:84:ASP:HB3	12:BC:86:GLN:HG3	1.75	0.69
14:BE:207:THR:CG2	14:BE:210:ASN:HB2	2.23	0.69
22:BM:61:LEU:HD22	22:BM:65:GLN:NE2	2.07	0.69
32:BW:43:PRO:HG2	32:BW:46:VAL:HG23	1.75	0.69
7:A7:16:LEU:HD13	7:A7:76:LEU:HD11	1.75	0.69
9:A9:129:TYR:HB2	9:A9:154:UNK:HB2	1.74	0.69
10:AA:73:A:O2'	10:AA:74:A:OP2	2.11	0.69
10:AA:494:A:N1	33:AX:48:HIS:HB3	2.08	0.69
10:AA:937:U:H4'	10:AA:938:U:OP1	1.92	0.69
10:AA:1002:U:O2'	10:AA:1003:A:H5'	1.93	0.69
10:AA:1582:G:HO2'	10:AA:1583:A:H8	1.41	0.69
11:AB:191:TRP:NE1	11:AB:193:VAL:HB	2.07	0.69
10:BA:798:G:H2'	10:BA:799:G:H8	1.57	0.69
10:BA:971:A:H62	10:BA:989:G:H21	1.41	0.69
10:BA:1137:A:H2'	10:BA:1138:A:H8	1.58	0.69
17:BH:74:VAL:HG12	17:BH:75:ILE:N	2.08	0.69
27:BR:267:LEU:H	27:BR:267:LEU:CD1	2.04	0.69
27:BR:293:THR:HG21	27:BR:336:PHE:CE2	2.27	0.69
10:AA:532:G:N2	10:AA:532:G:OP2	2.26	0.68
10:AA:1360:U:H2'	31:AV:3:ARG:NH1	2.08	0.68
12:AC:15:VAL:O	12:AC:19:VAL:HG23	1.93	0.68
18:AI:57:LEU:HD22	18:AI:107:ILE:HG23	1.75	0.68
27:AR:186:TYR:HB3	27:AR:206:ARG:HH11	1.58	0.68
32:AW:108:LYS:HG3	32:AW:110:ARG:HH21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:120:GLU:HG2	32:AW:239:GLU:OE2	1.93	0.68
10:BA:89:A:C4	10:BA:390:A:C2	2.82	0.68
10:BA:231:U:H2'	10:BA:232:G:O4'	1.92	0.68
10:BA:517:U:H2'	10:BA:519:A:OP2	1.93	0.68
10:BA:546:G:H2'	10:BA:547:C:C5	2.28	0.68
10:BA:569:C:H5'	10:BA:570:G:OP2	1.92	0.68
10:BA:623:U:N3	10:BA:948:A:N6	2.41	0.68
10:BA:971:A:H2'	10:BA:972:G:H5'	1.74	0.68
10:BA:1442:A:C8	10:BA:1512:G:H1'	2.28	0.68
10:BA:1668:U:H2'	10:BA:1669:G:C8	2.26	0.68
15:BF:26:ARG:O	15:BF:27:ARG:HG2	1.93	0.68
15:BF:49:LYS:HE2	15:BF:53:LYS:NZ	2.08	0.68
18:BI:120:VAL:HG12	18:BI:121:ALA:H	1.58	0.68
21:BL:58:ILE:HG21	21:BL:117:PRO:CG	2.22	0.68
30:BU:89:ASN:CG	30:BU:90:ALA:H	2.01	0.68
4:A4:126:ALA:CB	4:A4:175:ASN:HD21	1.98	0.68
5:A5:15:ARG:H	5:A5:15:ARG:CD	2.06	0.68
7:A7:42:CYS:O	7:A7:46:VAL:HG23	1.93	0.68
8:A8:75:VAL:HG12	8:A8:79:LEU:HB3	1.75	0.68
9:A9:150:UNK:O	9:A9:153:UNK:HG3	1.93	0.68
10:AA:27:A:H5'	10:AA:27:A:C8	2.28	0.68
10:AA:235:A:C2	10:AA:814:A:C5	2.81	0.68
10:AA:863:G:H2'	10:AA:864:U:C6	2.29	0.68
10:AA:1263:G:N2	10:AA:1296:G:N2	2.41	0.68
10:AA:1318:C:O2'	10:AA:1319:U:OP2	2.11	0.68
10:AA:1693:A:H2'	10:AA:1694:U:H6	1.59	0.68
10:AA:1746:G:O2'	10:AA:1747:A:C5'	2.40	0.68
15:AF:26:ARG:O	15:AF:27:ARG:HG2	1.93	0.68
20:AK:103:VAL:CG1	20:AK:142:ARG:HG2	2.24	0.68
30:AU:54:ASN:O	30:AU:58:LEU:HG	1.92	0.68
2:B2:166:GLN:HE22	2:B2:173:LEU:HD23	1.57	0.68
3:B3:43:THR:HG21	3:B3:97:GLN:CD	2.18	0.68
10:BA:295:U:H2'	10:BA:296:C:H6	1.58	0.68
10:BA:721:A:H2'	10:BA:722:A:C8	2.28	0.68
10:BA:1373:G:H2'	10:BA:1374:C:H6	1.58	0.68
11:BB:64:GLN:HG2	14:BE:245:SER:OG	1.93	0.68
14:BE:228:PRO:CB	17:BH:68:ARG:HH21	2.06	0.68
26:BQ:120:ASP:OD1	26:BQ:120:ASP:N	2.27	0.68
27:BR:127:SER:CB	27:BR:132:GLN:HB2	2.23	0.68
28:BS:100:GLY:HA2	28:BS:108:VAL:O	1.92	0.68
30:BU:26:SER:HB3	30:BU:31:GLU:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:204:GLN:C	32:BW:206:SER:H	2.00	0.68
10:AA:236:U:H2'	10:AA:237:U:H5"	1.74	0.68
22:AM:132:LYS:NZ	22:AM:135:GLY:HA3	2.08	0.68
27:AR:17:LEU:HB3	27:AR:54:TRP:CZ3	2.29	0.68
32:AW:43:PRO:HG2	32:AW:46:VAL:HG23	1.76	0.68
4:B4:121:GLN:NE2	4:B4:145:PHE:HD2	1.91	0.68
10:BA:236:U:H2'	10:BA:237:U:H5"	1.74	0.68
10:BA:328:G:H2'	26:BQ:132:LYS:HE2	1.74	0.68
10:BA:805:G:H1	10:BA:827:U:H3	1.41	0.68
10:BA:962:G:H1	10:BA:995:U:H3	1.40	0.68
14:BE:228:PRO:HA	14:BE:231:TRP:HD1	1.56	0.68
15:BF:82:GLN:OE1	15:BF:98:ILE:HD11	1.94	0.68
31:BV:114:ILE:HB	31:BV:115:PRO:CD	2.22	0.68
2:A2:36:THR:H	2:A2:103:THR:HG23	1.57	0.68
3:A3:95:THR:HG22	3:A3:96:ALA:H	1.58	0.68
6:A6:33:VAL:HA	6:A6:76:ALA:O	1.93	0.68
10:AA:569:C:H5'	10:AA:570:G:OP2	1.94	0.68
10:AA:1583:A:H2	10:AA:1584:U:C4	2.11	0.68
12:AC:82:TYR:O	12:AC:84:ASP:N	2.26	0.68
14:AE:107:ASP:O	14:AE:109:ASN:N	2.26	0.68
22:AM:22:ILE:HD11	10:BA:1700:A:C2	2.28	0.68
31:AV:105:MET:HE1	31:AV:109:LEU:HD22	1.76	0.68
32:AW:150:ARG:HG2	32:AW:151:PHE:HD1	1.58	0.68
32:AW:193:ARG:HG2	32:AW:220:PHE:CE2	2.29	0.68
3:B3:141:ILE:O	17:BH:51:GLU:HG3	1.94	0.68
4:B4:139:ARG:NH1	10:BA:862:A:H5'	2.08	0.68
10:BA:718:A:C5	10:BA:719:G:N7	2.61	0.68
10:BA:1174:A:C2'	10:BA:1175:A:H5'	2.23	0.68
10:BA:1487:A:H5'	12:BC:10:LYS:CE	2.21	0.68
11:BB:98:ARG:NH1	11:BB:101:PRO:HD2	2.05	0.68
18:BI:11:THR:HG21	18:BI:86:ALA:O	1.93	0.68
27:BR:180:VAL:CG1	27:BR:181:GLN:H	1.99	0.68
27:BR:194:GLY:HA2	27:BR:216:VAL:HG23	1.75	0.68
30:BU:56:VAL:CG1	30:BU:60:LYS:HE3	2.22	0.68
5:A5:90:CYS:O	5:A5:94:ARG:HG3	1.93	0.68
10:AA:1:A:H5'	10:AA:2:A:OP2	1.93	0.68
10:AA:46:A:O2'	10:AA:47:C:OP2	2.11	0.68
10:AA:508:A:H5'	10:AA:509:G:OP2	1.93	0.68
10:AA:971:A:H2'	10:AA:972:G:H5'	1.75	0.68
10:AA:1373:G:H2'	10:AA:1374:C:H6	1.57	0.68
11:AB:120:VAL:HG22	11:AB:142:ALA:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AX:50:LEU:HD23	33:AX:57:ARG:NH1	2.08	0.68
4:B4:33:ASP:HB3	4:B4:44:SER:HB2	1.76	0.68
4:B4:108:ILE:HG22	4:B4:109:THR:N	2.07	0.68
9:B9:146:UNK:C	9:B9:149:UNK:HG3	2.24	0.68
10:BA:422:G:H5'	10:BA:422:G:C8	2.22	0.68
10:BA:467:A:H5"	13:BD:130:ARG:HD2	1.76	0.68
10:BA:748:U:C4	13:BD:149:ARG:HG3	2.29	0.68
10:BA:1072:G:N2	17:BH:79:TYR:OH	2.23	0.68
10:BA:1241:U:O2'	10:BA:1242:G:OP2	2.10	0.68
19:BJ:67:LYS:HD2	19:BJ:76:THR:HG21	1.76	0.68
27:BR:77:HIS:CD2	27:BR:78:PHE:H	2.11	0.68
27:BR:200:ASN:O	27:BR:202:ASN:N	2.26	0.68
27:BR:234:ASP:OD1	27:BR:236:LYS:HB2	1.93	0.68
8:A8:60:VAL:HA	8:A8:72:LYS:HG3	1.74	0.68
10:AA:235:A:H2'	10:AA:814:A:H5'	1.76	0.68
10:AA:477:G:H2'	10:AA:478:G:O4'	1.93	0.68
10:AA:955:A:H2'	10:AA:956:A:C5'	2.24	0.68
12:AC:84:ASP:HB3	12:AC:86:GLN:HG3	1.75	0.68
14:AE:41:LYS:HB3	14:AE:244:PHE:HE2	1.57	0.68
25:AP:147:VAL:O	25:AP:148:ALA:HB2	1.94	0.68
27:AR:267:LEU:O	27:AR:268:GLN:HB2	1.94	0.68
30:AU:94:ILE:HG22	30:AU:95:LYS:H	1.57	0.68
2:B2:155:LYS:HG2	2:B2:155:LYS:O	1.92	0.68
3:B3:103:LYS:HA	3:B3:113:ARG:HH12	1.58	0.68
10:BA:738:A:O2'	10:BA:739:A:H5'	1.93	0.68
10:BA:948:A:O2'	10:BA:949:A:H5'	1.94	0.68
10:BA:1171:G:H8	23:BN:39:ARG:NH1	1.91	0.68
11:BB:11:LYS:HE2	31:BV:115:PRO:HB2	1.75	0.68
13:BD:37:LYS:HZ3	13:BD:126:ARG:HD2	1.57	0.68
13:BD:100:THR:CG2	13:BD:102:HIS:HB3	2.23	0.68
16:BG:158:PHE:CD2	16:BG:159:LYS:HG3	2.28	0.68
27:BR:293:THR:HG21	27:BR:336:PHE:HE2	1.59	0.68
10:AA:469:A:H2'	10:AA:470:G:C8	2.29	0.68
10:AA:886:U:C3'	10:AA:887:U:H5"	2.06	0.68
10:AA:948:A:O2'	10:AA:949:A:H5'	1.92	0.68
11:AB:79:GLN:O	11:AB:83:ILE:HG13	1.94	0.68
11:AB:99:TRP:HH2	11:AB:104:LEU:HG	1.59	0.68
14:AE:154:THR:HG22	14:AE:155:ILE:HG13	1.75	0.68
17:AH:76:SER:CB	17:AH:77:PRO:HD3	2.24	0.68
22:AM:61:LEU:HD22	22:AM:65:GLN:NE2	2.08	0.68
35:AZ:78:GLU:O	35:AZ:81:ILE:HG22	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:14:THR:HG21	10:BA:344:A:O2'	1.92	0.68
8:B8:43:VAL:CG2	22:BM:25:LYS:HE3	2.22	0.68
10:BA:68:U:H3	10:BA:77:G:H1	1.40	0.68
10:BA:532:G:N2	10:BA:532:G:OP2	2.26	0.68
10:BA:867:U:H6	10:BA:867:U:C5'	2.06	0.68
10:BA:1025:G:H1	10:BA:1043:U:H3	1.40	0.68
10:BA:1579:G:C8	18:BI:126:MET:HE3	2.28	0.68
20:BK:95:ILE:HD11	20:BK:126:ILE:CG2	2.23	0.68
24:BO:60:HIS:O	24:BO:62:ILE:HG13	1.93	0.68
25:BP:42:LEU:HD23	25:BP:53:VAL:HG11	1.74	0.68
27:BR:72:LEU:HB3	27:BR:103:TRP:CZ3	2.29	0.68
4:A4:33:ASP:HB3	4:A4:44:SER:HB2	1.75	0.68
4:A4:121:GLN:HE21	4:A4:145:PHE:HD2	1.42	0.68
10:AA:1008:A:H5"	10:AA:1009:U:OP2	1.93	0.68
18:AI:23:SER:OG	18:AI:68:ARG:HG3	1.94	0.68
2:B2:40:THR:HG21	2:B2:87:LEU:HD12	1.76	0.68
3:B3:123:TYR:CD2	3:B3:178:THR:HG23	2.29	0.68
5:B5:26:CYS:SG	5:B5:28:ARG:CB	2.82	0.68
6:B6:40:ASN:HB2	6:B6:56:LYS:HD2	1.75	0.68
13:BD:53:ARG:HH12	14:BE:176:GLY:HA3	1.57	0.68
14:BE:49:PHE:HD1	35:BZ:41:SER:HB3	1.59	0.68
15:BF:49:LYS:HE2	15:BF:53:LYS:HZ3	1.58	0.68
22:BM:26:ARG:HG3	22:BM:27:ILE:N	2.05	0.68
27:BR:238:LEU:HD11	27:BR:248:PRO:HG3	1.76	0.68
4:A4:64:LYS:HG2	4:A4:65:GLY:H	1.59	0.68
9:A9:146:UNK:C	9:A9:149:UNK:HG3	2.24	0.68
10:AA:231:U:H2'	10:AA:232:G:O4'	1.93	0.68
10:AA:983:A:H2'	10:AA:984:C:H6	1.59	0.68
10:AA:1071:U:H5"	10:AA:1072:G:OP2	1.94	0.68
14:AE:77:LEU:O	14:AE:78:MET:HE2	1.93	0.68
16:AG:72:MET:O	16:AG:78:ALA:HB1	1.94	0.68
27:AR:51:VAL:HG13	27:AR:82:LEU:HD11	1.76	0.68
2:B2:192:GLU:HB2	26:BQ:19:SER:CB	2.24	0.68
6:B6:67:GLY:HA2	10:BA:935:G:O2'	1.94	0.68
7:B7:42:CYS:O	7:B7:46:VAL:HG23	1.93	0.68
9:B9:116:CYS:O	9:B9:120:GLY:HA3	1.93	0.68
10:BA:381:G:H2'	10:BA:382:A:H8	1.59	0.68
10:BA:407:A:H5"	10:BA:408:C:C5	2.28	0.68
10:BA:1302:G:N2	31:BV:6:THR:HG21	2.09	0.68
16:BG:72:MET:O	16:BG:78:ALA:HB1	1.94	0.68
17:BH:3:LYS:O	17:BH:4:VAL:HG13	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BJ:93:CYS:HB3	19:BJ:97:ASP:HB2	1.76	0.68
23:BN:11:ARG:O	23:BN:11:ARG:HG2	1.94	0.68
26:BQ:17:LEU:HA	26:BQ:20:LYS:CE	2.24	0.68
34:BY:7:TYR:OH	34:BY:9:LEU:HD12	1.94	0.68
34:BY:90:GLY:C	34:BY:92:ARG:H	2.02	0.68
2:A2:78:GLU:O	2:A2:79:ASN:HB3	1.93	0.68
4:A4:77:ASP:O	4:A4:79:SER:N	2.26	0.68
9:A9:85:LYS:HG3	9:A9:86:THR:N	2.09	0.68
9:A9:116:CYS:HA	9:A9:125:MET:SD	2.34	0.68
10:AA:231:U:H2'	10:AA:232:G:C4'	2.24	0.68
10:AA:381:G:H2'	10:AA:382:A:C8	2.29	0.68
10:AA:546:G:H2'	10:AA:547:C:C5	2.29	0.68
10:AA:866:U:H3	10:AA:902:G:H1	1.39	0.68
10:AA:1556:G:C8	18:AI:124:ARG:HG3	2.27	0.68
32:AW:204:GLN:C	32:AW:206:SER:H	2.01	0.68
2:B2:29:LYS:HZ1	10:BA:391:A:N6	1.91	0.68
7:B7:6:LYS:O	7:B7:10:ILE:HG13	1.93	0.68
10:BA:245:A:HO2'	10:BA:246:U:H3'	1.56	0.68
10:BA:616:A:C4'	10:BA:617:A:H5'	2.23	0.68
10:BA:785:G:N3	17:BH:107:THR:HG21	2.08	0.68
10:BA:863:G:H2'	10:BA:864:U:C6	2.29	0.68
10:BA:1257:U:O2'	10:BA:1258:U:OP2	2.12	0.68
29:BT:112:GLU:OE2	29:BT:119:LYS:HG3	1.93	0.68
32:BW:163:LYS:HB2	32:BW:237:TRP:HZ3	1.58	0.68
1:A1:20:SER:C	1:A1:22:GLY:H	2.01	0.67
4:A4:181:GLU:HG2	4:A4:199:TYR:CE2	2.29	0.67
5:A5:67:PRO:HD3	20:AK:129:ILE:HD12	1.76	0.67
10:AA:381:G:H2'	10:AA:382:A:H8	1.57	0.67
10:AA:673:A:H2'	10:AA:675:A:N6	2.09	0.67
10:AA:1509:U:H5"	10:AA:1544:G:H22	1.58	0.67
13:AD:10:LYS:HD2	13:AD:10:LYS:N	2.09	0.67
18:AI:120:VAL:HG12	18:AI:121:ALA:H	1.57	0.67
22:AM:26:ARG:CG	22:AM:27:ILE:H	2.04	0.67
27:AR:75:HIS:ND1	27:AR:95:SER:HB2	2.10	0.67
10:BA:468:U:H5'	10:BA:469:A:C4'	2.24	0.67
10:BA:1033:A:O2'	10:BA:1034:A:H5'	1.93	0.67
10:BA:1137:A:H2'	10:BA:1138:A:C8	2.29	0.67
10:BA:1603:A:N7	10:BA:1717:C:O4'	2.27	0.67
11:BB:141:ILE:HG23	11:BB:155:VAL:CG1	2.24	0.67
13:BD:69:ARG:HH21	13:BD:92:LYS:HZ1	1.40	0.67
16:BG:44:VAL:HG12	16:BG:45:PRO:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BI:17:ASN:H	18:BI:125:ARG:NH1	1.92	0.67
22:BM:94:ASP:OD2	28:BS:16:LYS:HD2	1.94	0.67
6:A6:40:ASN:HB2	6:A6:56:LYS:HD2	1.75	0.67
8:A8:69:VAL:HG11	8:A8:80:ALA:HB1	1.74	0.67
10:AA:618:G:O2'	10:AA:619:C:H5'	1.94	0.67
10:AA:733:G:H2'	10:AA:734:U:C6	2.29	0.67
11:AB:45:ASN:ND2	31:AV:109:LEU:HD13	2.09	0.67
11:AB:193:VAL:HG13	11:AB:197:LEU:HD12	1.76	0.67
12:AC:227:ILE:HG12	27:AR:209:PHE:CE1	2.29	0.67
22:AM:112:ASP:O	22:AM:115:ARG:HB3	1.94	0.67
27:AR:146:ASN:C	27:AR:148:LEU:H	2.02	0.67
27:AR:340:THR:HG22	27:AR:341:SER:N	2.05	0.67
31:AV:35:LEU:O	31:AV:35:LEU:HD23	1.95	0.67
32:AW:37:LYS:HG3	32:AW:40:GLU:HB2	1.76	0.67
32:AW:163:LYS:HB2	32:AW:237:TRP:CZ3	2.30	0.67
4:B4:64:LYS:HG2	4:B4:65:GLY:H	1.59	0.67
10:BA:75:C:H1'	34:BY:178:LYS:HG2	1.76	0.67
10:BA:231:U:H2'	10:BA:232:G:H5"	1.75	0.67
10:BA:231:U:H2'	10:BA:232:G:C4'	2.24	0.67
10:BA:1579:G:H3'	18:BI:126:MET:CE	2.24	0.67
14:BE:77:LEU:O	14:BE:78:MET:HE2	1.94	0.67
27:BR:274:THR:HG22	27:BR:277:GLY:O	1.95	0.67
32:BW:31:PRO:HB2	32:BW:38:LEU:HD23	1.76	0.67
2:A2:155:LYS:HG2	2:A2:155:LYS:O	1.94	0.67
9:A9:81:THR:CG2	9:A9:83:LYS:HG2	2.24	0.67
10:AA:3:C:O2'	10:AA:4:C:OP1	2.09	0.67
10:AA:65:C:C6	34:AY:177:PRO:HB3	2.28	0.67
10:AA:407:A:H5"	10:AA:408:C:C5	2.30	0.67
10:AA:797:A:O5'	10:AA:797:A:C8	2.47	0.67
10:AA:798:G:H2'	10:AA:799:G:H8	1.59	0.67
11:AB:96:SER:CB	11:AB:111:LYS:HZ3	2.07	0.67
13:AD:71:PHE:CE2	32:AW:250:ILE:HG21	2.29	0.67
13:AD:136:VAL:HG22	13:AD:156:ILE:HG23	1.74	0.67
14:AE:225:TYR:CE1	17:AH:70:ASN:ND2	2.63	0.67
19:AJ:67:LYS:HD2	19:AJ:76:THR:HG21	1.77	0.67
26:AQ:17:LEU:HA	26:AQ:20:LYS:CE	2.24	0.67
27:AR:87:GLU:HB2	27:AR:89:CYS:SG	2.33	0.67
30:AU:26:SER:HB3	30:AU:31:GLU:HG3	1.76	0.67
1:B1:7:THR:CG2	1:B1:31:LEU:HD22	2.24	0.67
2:B2:10:LYS:HD2	10:BA:314:A:OP2	1.93	0.67
2:B2:29:LYS:NZ	10:BA:391:A:H62	1.87	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:91:ILE:HG23	3:B3:166:LYS:HD2	1.74	0.67
4:B4:116:MET:HE3	4:B4:215:ASN:HB3	1.76	0.67
4:B4:137:ILE:HD12	4:B4:225:LYS:HB2	1.76	0.67
10:BA:570:G:H4'	10:BA:574:A:C2	2.30	0.67
10:BA:1156:A:H2	10:BA:1425:G:N3	1.91	0.67
11:BB:12:ARG:O	11:BB:169:MET:HE1	1.95	0.67
11:BB:99:TRP:HH2	11:BB:104:LEU:HG	1.58	0.67
16:BG:55:LYS:O	16:BG:56:PHE:HD1	1.78	0.67
22:BM:72:LEU:HA	22:BM:79:HIS:NE2	2.09	0.67
27:BR:241:ASP:O	27:BR:245:LEU:HD21	1.95	0.67
34:BY:132:LYS:CE	34:BY:163:ARG:HD3	2.22	0.67
1:A1:7:THR:CG2	1:A1:31:LEU:HD22	2.25	0.67
1:A1:46:LYS:O	1:A1:46:LYS:HG3	1.93	0.67
10:AA:27:A:H5'	10:AA:27:A:H8	1.60	0.67
10:AA:546:G:C2	10:AA:547:C:N4	2.63	0.67
10:AA:608:C:OP1	38:AA:2284:HOH:O	2.12	0.67
10:AA:738:A:O2'	10:AA:739:A:H5'	1.94	0.67
10:AA:962:G:H1	10:AA:995:U:H3	1.41	0.67
11:AB:118:LEU:HD12	11:AB:119:ILE:H	1.58	0.67
18:AI:99:VAL:HG12	18:AI:100:ASP:N	2.10	0.67
27:AR:190:VAL:HG22	27:AR:219:LEU:HD13	1.77	0.67
27:AR:234:ASP:OD1	27:AR:236:LYS:HB2	1.94	0.67
34:AY:12:ALA:HB1	34:AY:124:LEU:HA	1.75	0.67
2:B2:141:LYS:HZ2	2:B2:143:LYS:HE2	1.57	0.67
4:B4:108:ILE:HD12	4:B4:219:ARG:HA	1.77	0.67
10:BA:1187:C:H4'	23:BN:3:ASN:O	1.94	0.67
10:BA:1263:G:H8	10:BA:1263:G:O5'	1.78	0.67
10:BA:1301:A:H2'	10:BA:1302:G:O4'	1.94	0.67
16:BG:70:THR:HB	16:BG:150:ILE:HD12	1.76	0.67
27:BR:186:TYR:HB3	27:BR:206:ARG:HH11	1.60	0.67
27:BR:214:SER:HB3	27:BR:233:LYS:HB2	1.76	0.67
27:BR:267:LEU:O	27:BR:268:GLN:HB2	1.92	0.67
29:BT:111:LEU:HD23	29:BT:116:ILE:HD12	1.77	0.67
2:A2:194:LYS:HD3	26:AQ:12:GLN:HE22	1.59	0.67
3:A3:43:THR:HG21	3:A3:97:GLN:CD	2.19	0.67
8:A8:90:ARG:O	8:A8:92:LEU:N	2.27	0.67
10:AA:1171:G:C8	23:AN:39:ARG:NH1	2.61	0.67
10:AA:1302:G:N2	31:AV:6:THR:HG21	2.07	0.67
16:AG:137:ALA:O	16:AG:141:ARG:HB2	1.95	0.67
22:AM:16:ARG:HH22	22:AM:20:THR:HA	1.59	0.67
27:AR:107:THR:C	27:AR:109:THR:H	2.03	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:127:LEU:HG	3:B3:174:TYR:CE1	2.29	0.67
10:BA:206:U:OP1	26:BQ:16:PHE:HB3	1.94	0.67
10:BA:733:G:H2'	10:BA:734:U:C6	2.30	0.67
10:BA:761:U:O2'	10:BA:762:U:OP2	2.12	0.67
10:BA:873:G:H22	20:BK:55:ARG:NH2	1.93	0.67
11:BB:164:THR:HG21	11:BB:200:HIS:H	1.58	0.67
14:BE:231:TRP:HH2	17:BH:66:ILE:HG21	1.60	0.67
15:BF:31:CYS:HB2	15:BF:75:GLY:O	1.94	0.67
24:BO:29:HIS:O	24:BO:30:MET:HG3	1.95	0.67
26:BQ:44:PRO:HG2	26:BQ:47:ALA:CB	2.24	0.67
32:BW:144:HIS:C	32:BW:146:SER:H	2.02	0.67
32:BW:163:LYS:HB2	32:BW:237:TRP:CZ3	2.29	0.67
32:BW:206:SER:O	32:BW:207:PHE:HB2	1.93	0.67
2:A2:105:VAL:CG1	10:AA:320:G:H4'	2.24	0.67
4:A4:108:ILE:HD12	4:A4:219:ARG:HA	1.75	0.67
10:AA:91:G:OP2	32:AW:3:ARG:CZ	2.42	0.67
10:AA:572:U:H4'	10:AA:573:A:H5'	1.75	0.67
10:AA:761:U:O2'	10:AA:762:U:OP2	2.12	0.67
10:AA:1000:U:H4'	10:AA:1097:A:N6	2.09	0.67
10:AA:1090:G:H1	10:AA:1102:U:H3	1.40	0.67
21:AL:19:ARG:HH11	21:AL:19:ARG:CA	2.02	0.67
22:AM:28:THR:HG21	22:AM:61:LEU:HD11	1.76	0.67
25:AP:51:ARG:NH2	25:AP:148:ALA:HB3	2.09	0.67
29:AT:25:HIS:HA	29:AT:28:LYS:HE2	1.76	0.67
3:B3:192:PHE:HE1	6:B6:14:LYS:HA	1.59	0.67
10:BA:72:G:H3'	10:BA:72:G:C8	2.29	0.67
10:BA:341:G:H5"	10:BA:342:U:H3'	1.77	0.67
10:BA:477:G:H2'	10:BA:478:G:O4'	1.93	0.67
10:BA:681:G:H22	10:BA:719:G:H22	1.33	0.67
10:BA:986:G:OP1	20:BK:149:ARG:CZ	2.42	0.67
10:BA:1456:A:H2'	10:BA:1457:A:O4'	1.95	0.67
12:BC:175:VAL:HG22	12:BC:188:LYS:HA	1.77	0.67
12:BC:214:ILE:O	31:BV:39:ALA:HB1	1.95	0.67
13:BD:158:PHE:N	13:BD:158:PHE:HD1	1.93	0.67
26:BQ:106:ILE:HG22	26:BQ:108:VAL:HG23	1.76	0.67
31:BV:35:LEU:HD21	31:BV:41:VAL:HG21	1.75	0.67
7:A7:63:PHE:CD2	12:AC:79:ARG:HD2	2.29	0.67
10:AA:68:U:H3	10:AA:77:G:H1	1.41	0.67
10:AA:177:U:H2'	10:AA:178:U:C6	2.29	0.67
10:AA:295:U:H2'	10:AA:296:C:C6	2.30	0.67
10:AA:295:U:H2'	10:AA:296:C:H6	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:604:G:H1	10:AA:1080:G:H21	1.37	0.67
10:AA:796:U:C2'	10:AA:797:A:H5'	2.23	0.67
10:AA:805:G:H1	10:AA:827:U:H3	1.43	0.67
11:AB:74:SER:OG	11:AB:125:SER:HB3	1.95	0.67
12:AC:226:GLU:HG2	27:AR:208:THR:CG2	2.25	0.67
16:AG:45:PRO:HG3	16:AG:85:ILE:HG23	1.77	0.67
27:AR:200:ASN:O	27:AR:202:ASN:N	2.28	0.67
29:AT:145:THR:O	29:AT:149:ILE:HG13	1.93	0.67
2:B2:35:MET:CE	2:B2:37:LYS:HG3	2.25	0.67
2:B2:177:THR:HG21	10:BA:205:A:OP1	1.95	0.67
10:BA:328:G:H2'	26:BQ:132:LYS:NZ	2.09	0.67
10:BA:876:A:C5'	20:BK:60:MET:HE3	2.24	0.67
10:BA:1239:G:O2'	10:BA:1240:G:H5'	1.94	0.67
10:BA:1263:G:H21	10:BA:1296:G:H22	1.42	0.67
10:BA:1273:U:O2'	10:BA:1274:U:H5'	1.95	0.67
12:BC:36:GLY:O	12:BC:55:ALA:HA	1.95	0.67
22:BM:93:LYS:HE2	28:BS:41:LEU:HD22	1.76	0.67
3:A3:144:ARG:HH21	3:A3:145:LEU:HG	1.60	0.67
10:AA:451:G:O2'	10:AA:452:A:P	2.53	0.67
10:AA:1102:U:H2'	10:AA:1103:G:H5'	1.77	0.67
10:AA:1273:U:O2'	10:AA:1274:U:H5'	1.95	0.67
17:AH:28:ARG:HB3	17:AH:29:PRO:HD3	1.75	0.67
21:AL:34:LEU:O	21:AL:36:SER:N	2.28	0.67
34:AY:67:VAL:O	34:AY:67:VAL:HG13	1.93	0.67
1:B1:31:LEU:HD12	1:B1:39:ARG:HB3	1.77	0.67
10:BA:1178:U:O3'	23:BN:26:ARG:HD2	1.93	0.67
10:BA:1324:U:O2'	18:BI:4:GLN:HG2	1.95	0.67
11:BB:193:VAL:HG13	11:BB:197:LEU:HD12	1.76	0.67
14:BE:157:GLN:HA	17:BH:96:SER:OG	1.95	0.67
22:BM:1:MET:HE3	22:BM:2:SER:C	2.20	0.67
24:BO:68:LEU:HD23	24:BO:68:LEU:C	2.20	0.67
3:A3:52:LYS:HB3	3:A3:56:LYS:HE2	1.77	0.67
3:A3:127:LEU:HG	3:A3:174:TYR:CE1	2.30	0.67
10:AA:256:U:H2'	10:AA:257:G:O4'	1.95	0.67
10:AA:757:C:C5	10:AA:770:G:C2	2.83	0.67
10:AA:765:A:O2'	10:AA:766:G:OP2	2.13	0.67
10:AA:777:U:H2'	10:AA:777:U:O2	1.95	0.67
10:AA:1720:G:OP1	10:AA:1723:A:H4'	1.94	0.67
15:AF:49:LYS:HE2	15:AF:53:LYS:NZ	2.09	0.67
16:AG:55:LYS:O	16:AG:56:PHE:HD1	1.78	0.67
22:AM:16:ARG:NH2	10:BA:1700:A:N3	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AM:26:ARG:HG3	22:AM:27:ILE:N	2.05	0.67
27:AR:107:THR:O	27:AR:109:THR:N	2.28	0.67
32:AW:144:HIS:C	32:AW:146:SER:H	2.03	0.67
34:AY:7:TYR:HB3	34:AY:12:ALA:HB3	1.76	0.67
2:B2:86:ILE:HD13	2:B2:86:ILE:O	1.95	0.67
6:B6:45:PHE:CD2	24:BO:57:ARG:HD3	2.30	0.67
10:BA:5:U:O2'	10:BA:546:G:H4'	1.95	0.67
10:BA:177:U:H2'	10:BA:178:U:C6	2.29	0.67
10:BA:605:U:H2'	10:BA:605:U:O2	1.94	0.67
13:BD:10:LYS:N	13:BD:10:LYS:HD2	2.10	0.67
21:BL:52:VAL:HG13	21:BL:71:VAL:HG13	1.77	0.67
25:BP:49:ASP:HB3	25:BP:52:ASN:HD22	1.58	0.67
26:BQ:116:VAL:HG12	26:BQ:117:LYS:N	2.00	0.67
4:A4:137:ILE:HD12	4:A4:225:LYS:HB2	1.77	0.67
7:A7:13:TYR:HD2	7:A7:76:LEU:HD22	1.59	0.67
10:AA:912:A:H3'	10:AA:912:A:N3	2.10	0.67
10:AA:1244:U:C5'	10:AA:1245:G:OP2	2.41	0.67
10:AA:1510:U:H2'	10:AA:1511:A:O5'	1.94	0.67
11:AB:163:SER:HB3	11:AB:165:GLU:OE1	1.95	0.67
14:AE:196:ASP:O	14:AE:197:ILE:HG23	1.95	0.67
21:AL:58:ILE:HG21	21:AL:117:PRO:CG	2.24	0.67
21:AL:86:VAL:HG12	21:AL:91:CYS:HB3	1.77	0.67
21:AL:97:GLU:O	21:AL:98:ASN:HB2	1.95	0.67
26:AQ:145:GLU:HA	26:AQ:145:GLU:OE1	1.93	0.67
29:AT:111:LEU:HD23	29:AT:116:ILE:HD12	1.77	0.67
32:AW:102:ARG:HE	32:AW:238:ILE:HG21	1.58	0.67
10:BA:84:U:C2'	10:BA:85:G:H5"	2.25	0.67
10:BA:162:A:H5"	34:BY:136:LYS:HB3	1.76	0.67
10:BA:1696:U:O2'	10:BA:1697:G:H5'	1.95	0.67
11:BB:5:ARG:HA	11:BB:5:ARG:NH1	2.04	0.67
11:BB:120:VAL:HG22	11:BB:142:ALA:HB2	1.75	0.67
12:BC:67:LYS:O	12:BC:71:GLU:HG3	1.95	0.67
16:BG:32:TYR:CE2	16:BG:138:PRO:HG2	2.29	0.67
22:BM:21:ASN:HD21	22:BM:102:SER:CB	2.07	0.67
25:BP:27:HIS:HE1	25:BP:67:SER:OG	1.78	0.67
25:BP:131:THR:O	25:BP:135:VAL:HG23	1.95	0.67
1:A1:7:THR:HG23	1:A1:33:SER:CB	2.25	0.66
7:A7:47:ARG:HB2	7:A7:50:LYS:HE2	1.75	0.66
10:AA:718:A:C5	10:AA:719:G:N7	2.63	0.66
10:AA:1140:U:H3'	10:AA:1141:G:H8	1.60	0.66
10:AA:1456:A:H2'	10:AA:1457:A:O4'	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1660:A:C6	10:AA:1661:G:N7	2.62	0.66
10:AA:1693:A:H2'	10:AA:1694:U:C6	2.30	0.66
12:AC:170:TYR:CD2	12:AC:205:VAL:HG21	2.30	0.66
24:AO:135:GLN:HG3	26:AQ:147:ILE:HD11	1.77	0.66
25:AP:49:ASP:HB3	25:AP:52:ASN:HD22	1.58	0.66
31:AV:63:LYS:C	31:AV:65:PRO:HD2	2.20	0.66
6:B6:57:CYS:O	6:B6:58:SER:HB2	1.95	0.66
10:BA:676:C:C4'	10:BA:677:G:H5'	2.24	0.66
20:BK:46:ASP:OD2	20:BK:48:SER:OG	2.13	0.66
24:BO:86:LEU:HD11	24:BO:90:LEU:HD23	1.77	0.66
27:BR:107:THR:C	27:BR:109:THR:H	2.03	0.66
9:A9:86:THR:HG22	9:A9:87:LYS:N	2.09	0.66
10:AA:468:U:H5'	10:AA:469:A:C4'	2.24	0.66
10:AA:1171:G:N1	23:AN:29:LEU:HD22	2.09	0.66
10:AA:1536:U:H2'	10:AA:1537:C:C6	2.31	0.66
12:AC:173:VAL:HG22	12:AC:190:LYS:HG2	1.77	0.66
14:AE:247:PHE:O	14:AE:249:HIS:N	2.28	0.66
17:AH:74:VAL:HG12	17:AH:75:ILE:N	2.10	0.66
20:AK:45:THR:CG2	20:AK:49:GLY:HA2	2.25	0.66
22:AM:87:ASN:ND2	22:AM:99:GLN:HE21	1.93	0.66
25:AP:131:THR:O	25:AP:135:VAL:HG23	1.94	0.66
27:AR:194:GLY:HA2	27:AR:216:VAL:HG23	1.76	0.66
28:AS:33:LEU:HD11	28:AS:59:ALA:HA	1.76	0.66
3:B3:129:ASP:HA	3:B3:132:LEU:HD13	1.75	0.66
5:B5:77:ILE:HD13	10:BA:1746:G:H1	1.59	0.66
6:B6:34:LYS:HE2	6:B6:41:ILE:HD11	1.77	0.66
8:B8:90:ARG:O	8:B8:92:LEU:N	2.28	0.66
10:BA:29:G:H4'	21:BL:130:SER:CB	2.25	0.66
10:BA:733:G:H1	10:BA:782:A:H61	1.43	0.66
10:BA:1429:G:OP2	10:BA:1430:C:H5	1.78	0.66
10:BA:1716:A:C2'	10:BA:1717:C:H5"	2.25	0.66
24:BO:28:LEU:HD12	24:BO:29:HIS:N	2.09	0.66
30:BU:16:ILE:HD12	30:BU:82:TYR:HD2	1.60	0.66
32:BW:230:LEU:HD13	32:BW:238:ILE:HD12	1.76	0.66
6:A6:5:LEU:HB2	17:AH:24:GLN:NE2	2.09	0.66
7:A7:82:ILE:HG13	30:AU:17:LYS:NZ	2.11	0.66
10:AA:616:A:C4'	10:AA:617:A:H5'	2.23	0.66
10:AA:945:A:H2'	10:AA:946:U:O4'	1.95	0.66
10:AA:1613:C:H1'	10:AA:1715:A:C2	2.30	0.66
22:AM:146:VAL:HG12	22:AM:147:VAL:N	2.02	0.66
24:AO:96:LYS:O	24:AO:100:ILE:HD13	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AR:77:HIS:CD2	27:AR:78:PHE:H	2.13	0.66
27:AR:241:ASP:O	27:AR:245:LEU:HD21	1.96	0.66
34:AY:58:LYS:O	34:AY:58:LYS:HD3	1.95	0.66
34:AY:90:GLY:C	34:AY:92:ARG:H	2.02	0.66
3:B3:63:ILE:O	3:B3:63:ILE:HG13	1.93	0.66
9:B9:100:PHE:O	9:B9:112:GLN:HB2	1.95	0.66
9:B9:113:GLN:HA	9:B9:127:LYS:HE2	1.78	0.66
10:BA:360:U:O2'	10:BA:361:A:OP1	2.13	0.66
10:BA:859:A:C5'	10:BA:859:A:H8	2.08	0.66
11:BB:118:LEU:HD12	11:BB:119:ILE:N	2.11	0.66
18:BI:99:VAL:HG12	18:BI:100:ASP:N	2.09	0.66
20:BK:98:ARG:NH2	20:BK:100:LYS:HA	2.10	0.66
26:BQ:134:VAL:O	26:BQ:135:ARG:HG3	1.95	0.66
32:BW:109:GLY:CA	32:BW:191:ILE:HD11	2.24	0.66
2:A2:37:LYS:O	2:A2:38:LEU:HD23	1.96	0.66
6:A6:48:ALA:HA	24:AO:58:ASP:OD1	1.95	0.66
9:A9:116:CYS:O	9:A9:120:GLY:HA3	1.96	0.66
10:AA:89:A:C4	10:AA:390:A:C2	2.83	0.66
10:AA:124:U:H2'	10:AA:124:U:O2	1.95	0.66
10:AA:206:U:OP1	26:AQ:16:PHE:HB3	1.95	0.66
10:AA:479:G:H3'	10:AA:480:A:H8	1.60	0.66
10:AA:795:A:H62	10:AA:836:G:H2'	1.59	0.66
10:AA:1082:G:H1	10:AA:1108:U:H3	1.40	0.66
10:AA:1110:A:H5"	38:AA:2368:HOH:O	1.96	0.66
10:AA:1229:U:O2	10:AA:1230:U:H5'	1.96	0.66
10:AA:1301:A:H2'	10:AA:1302:G:O4'	1.96	0.66
11:AB:144:CYS:SG	11:AB:156:VAL:HG13	2.35	0.66
13:AD:81:PHE:CZ	13:AD:88:GLU:HG3	2.20	0.66
22:AM:125:LEU:CD2	22:AM:129:TRP:HE1	2.08	0.66
24:AO:28:LEU:HD12	24:AO:29:HIS:N	2.11	0.66
26:AQ:106:ILE:HG22	26:AQ:108:VAL:HG23	1.77	0.66
8:B8:60:VAL:HA	8:B8:72:LYS:HG3	1.76	0.66
10:BA:173:A:H8	10:BA:173:A:H5'	1.60	0.66
10:BA:1489:U:H5'	10:BA:1490:C:OP2	1.96	0.66
10:BA:1510:U:H2'	10:BA:1511:A:O5'	1.96	0.66
27:BR:34:LYS:HB2	27:BR:37:GLU:OE1	1.96	0.66
27:BR:275:ASP:HA	27:BR:311:GLN:HB3	1.77	0.66
2:A2:22:ARG:NH1	2:A2:25:ARG:HH12	1.91	0.66
7:A7:63:PHE:HB2	7:A7:65:TYR:HE1	1.61	0.66
10:AA:494:A:O2'	33:AX:47:PRO:HG3	1.96	0.66
10:AA:623:U:N3	10:AA:948:A:N6	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:840:A:N6	24:AO:72:LYS:NZ	2.42	0.66
10:AA:1037:G:H2'	10:AA:1038:U:H5'	1.76	0.66
10:AA:1717:C:H2'	10:AA:1718:A:H5"	1.77	0.66
11:AB:5:ARG:CG	11:AB:187:LYS:HZ1	2.08	0.66
18:AI:102:ASN:OD1	27:AR:67:ILE:HG21	1.95	0.66
24:AO:28:LEU:HD12	24:AO:29:HIS:H	1.59	0.66
27:AR:34:LYS:HB2	27:AR:37:GLU:OE1	1.95	0.66
32:AW:177:LEU:HD23	32:AW:177:LEU:H	1.61	0.66
4:B4:104:TYR:O	4:B4:223:VAL:HG23	1.95	0.66
10:BA:65:C:H5'	34:BY:177:PRO:HA	1.76	0.66
10:BA:318:U:H4'	26:BQ:11:LYS:NZ	2.09	0.66
10:BA:508:A:H5'	10:BA:509:G:OP2	1.95	0.66
10:BA:765:A:O2'	25:BP:12:VAL:HG21	1.96	0.66
10:BA:797:A:O5'	10:BA:797:A:C8	2.49	0.66
18:BI:41:ILE:CD1	18:BI:50:ILE:HD12	2.25	0.66
18:BI:57:LEU:HD22	18:BI:107:ILE:HG23	1.77	0.66
29:BT:145:THR:O	29:BT:149:ILE:HG13	1.96	0.66
7:A7:82:ILE:HG13	30:AU:17:LYS:HZ3	1.61	0.66
10:AA:527:A:H2'	10:AA:528:G:H8	1.61	0.66
10:AA:1716:A:OP2	10:AA:1721:G:P	2.54	0.66
12:AC:165:GLN:H	12:AC:166:PRO:HD2	1.59	0.66
18:AI:120:VAL:HG12	18:AI:121:ALA:N	2.11	0.66
23:AN:11:ARG:HG2	23:AN:11:ARG:O	1.95	0.66
26:AQ:134:VAL:O	26:AQ:135:ARG:HG3	1.95	0.66
30:AU:73:VAL:CG1	30:AU:74:PRO:HD2	2.26	0.66
32:AW:35:PRO:HD2	32:AW:85:PRO:HG2	1.78	0.66
32:AW:93:ARG:HA	32:AW:99:GLN:O	1.96	0.66
33:AX:66:LYS:HD2	33:AX:69:LYS:HD2	1.77	0.66
3:B3:95:THR:HG22	3:B3:96:ALA:H	1.59	0.66
10:BA:453:G:OP2	13:BD:1:MET:HG3	1.95	0.66
10:BA:687:U:H2'	10:BA:688:A:C8	2.31	0.66
11:BB:75:ARG:NH1	11:BB:162:ARG:HA	2.10	0.66
12:BC:173:VAL:HG22	12:BC:190:LYS:HG2	1.77	0.66
30:BU:94:ILE:CG2	30:BU:97:VAL:HB	2.26	0.66
1:A1:31:LEU:HD12	1:A1:39:ARG:HB3	1.78	0.66
2:A2:14:THR:HG21	10:AA:344:A:O2'	1.95	0.66
10:AA:572:U:H5"	10:AA:573:A:OP1	1.95	0.66
10:AA:1101:C:H2'	10:AA:1102:U:O4'	1.96	0.66
10:AA:1158:U:H2'	10:AA:1159:U:O4'	1.96	0.66
10:AA:1170:G:OP1	19:AJ:66:ARG:NH1	2.29	0.66
10:AA:1514:G:C5'	29:AT:90:GLY:HA2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:132:ARG:O	13:AD:134:ILE:N	2.28	0.66
15:AF:31:CYS:HB2	15:AF:75:GLY:O	1.96	0.66
22:AM:119:ILE:HG23	28:AS:124:PHE:HE2	1.59	0.66
26:AQ:44:PRO:HG2	26:AQ:47:ALA:CB	2.26	0.66
30:AU:55:TYR:O	30:AU:59:VAL:HG23	1.95	0.66
32:AW:9:LEU:HD12	32:AW:10:LYS:H	1.61	0.66
8:B8:46:GLU:HB2	22:BM:7:LYS:HG3	1.78	0.66
10:BA:564:A:H61	21:BL:115:ASP:HB3	1.61	0.66
10:BA:643:U:H2'	10:BA:644:U:O4'	1.96	0.66
10:BA:945:A:H2'	10:BA:946:U:O4'	1.95	0.66
10:BA:1418:C:H5'	10:BA:1418:C:C6	2.30	0.66
10:BA:1509:U:H5"	10:BA:1544:G:H22	1.61	0.66
10:BA:1567:U:H5'	23:BN:29:LEU:HD11	1.77	0.66
16:BG:122:ARG:HE	16:BG:129:VAL:CG1	2.08	0.66
17:BH:28:ARG:HB3	17:BH:29:PRO:HD3	1.76	0.66
20:BK:45:THR:HG22	20:BK:49:GLY:HA2	1.78	0.66
25:BP:7:THR:OG1	25:BP:10:ILE:HD11	1.96	0.66
26:BQ:145:GLU:HA	26:BQ:145:GLU:OE1	1.95	0.66
28:BS:69:LYS:HZ1	28:BS:94:LEU:C	2.04	0.66
5:A5:26:CYS:SG	5:A5:28:ARG:CB	2.83	0.66
6:A6:32:ASP:OD1	6:A6:43:MET:HE3	1.96	0.66
9:A9:124:PHE:N	9:A9:124:PHE:CD1	2.64	0.66
10:AA:1453:C:H1'	18:AI:79:GLN:NE2	2.10	0.66
11:AB:14:LEU:HD11	31:AV:102:THR:HG21	1.78	0.66
13:AD:17:ARG:HB3	13:AD:20:GLU:CG	2.26	0.66
14:AE:224:ARG:CD	35:AZ:40:PHE:HZ	2.08	0.66
16:AG:95:ILE:HG21	16:AG:103:PRO:HB3	1.78	0.66
21:AL:54:GLU:OE2	21:AL:56:ILE:HD11	1.96	0.66
21:AL:112:ALA:HB2	21:AL:119:VAL:O	1.96	0.66
4:B4:34:PHE:HB3	4:B4:45:PHE:O	1.96	0.66
4:B4:77:ASP:O	4:B4:79:SER:N	2.26	0.66
4:B4:181:GLU:HG2	4:B4:199:TYR:CE2	2.31	0.66
9:B9:86:THR:HG22	9:B9:87:LYS:N	2.10	0.66
10:BA:466:A:H62	13:BD:40:ARG:HH22	1.42	0.66
10:BA:1040:C:O2'	10:BA:1041:A:H5'	1.95	0.66
10:BA:1660:A:C6	10:BA:1661:G:N7	2.64	0.66
14:BE:186:LYS:O	14:BE:190:GLN:HG3	1.95	0.66
18:BI:133:GLY:HA3	18:BI:139:LYS:HA	1.77	0.66
24:BO:127:LEU:HD12	24:BO:131:TYR:CE2	2.31	0.66
27:BR:275:ASP:HB3	27:BR:311:GLN:HG2	1.77	0.66
28:BS:132:THR:HG22	28:BS:133:HIS:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:193:ARG:HG2	32:BW:220:PHE:CE2	2.31	0.66
34:BY:58:LYS:HD3	34:BY:58:LYS:O	1.95	0.66
4:A4:26:LEU:HD12	20:AK:84:ARG:HH22	1.61	0.66
10:AA:164:U:OP2	10:AA:264:U:H4'	1.96	0.66
10:AA:512:C:H3'	10:AA:513:A:C5'	2.26	0.66
11:AB:11:LYS:HE2	31:AV:115:PRO:HB2	1.78	0.66
21:AL:52:VAL:HG13	21:AL:71:VAL:CG1	2.25	0.66
22:AM:21:ASN:HD21	22:AM:102:SER:CB	2.09	0.66
23:AN:45:GLN:HB2	23:AN:49:ILE:HD11	1.78	0.66
4:B4:220:LYS:NZ	10:BA:864:U:OP1	2.28	0.66
7:B7:61:TRP:HE1	12:BC:26:SER:CB	2.08	0.66
10:BA:599:A:C5'	10:BA:600:A:H5"	2.25	0.66
10:BA:728:U:C2'	10:BA:729:U:H5'	2.25	0.66
10:BA:1171:G:N7	23:BN:39:ARG:HB3	2.10	0.66
10:BA:1200:G:H1	30:BU:76:ARG:NH1	1.94	0.66
11:BB:139:PRO:HB3	35:BZ:47:VAL:HG21	1.76	0.66
14:BE:41:LYS:HB3	14:BE:244:PHE:HE2	1.61	0.66
18:BI:7:GLN:HG3	18:BI:98:TYR:HE2	1.61	0.66
25:BP:51:ARG:NH2	25:BP:148:ALA:HB3	2.11	0.66
27:BR:190:VAL:HG22	27:BR:219:LEU:HD13	1.78	0.66
30:BU:79:LEU:HD13	30:BU:103:LEU:HD21	1.76	0.66
32:BW:125:LEU:HD12	32:BW:238:ILE:HD11	1.77	0.66
4:A4:104:TYR:O	4:A4:223:VAL:HG23	1.96	0.66
10:AA:236:U:C3'	10:AA:237:U:H5"	2.26	0.66
10:AA:360:U:O2'	10:AA:361:A:OP1	2.14	0.66
10:AA:1340:G:N2	10:AA:1341:U:H1'	2.10	0.66
10:AA:1476:A:H2'	10:AA:1477:A:H5'	1.78	0.66
10:AA:1514:G:H22	10:AA:1540:G:C2'	2.09	0.66
12:AC:130:ILE:HA	12:AC:134:ALA:HB3	1.78	0.66
14:AE:33:LEU:O	14:AE:37:VAL:HG23	1.96	0.66
15:AF:82:GLN:OE1	15:AF:98:ILE:HD11	1.96	0.66
18:AI:71:VAL:HG21	18:AI:83:ILE:HG12	1.76	0.66
20:AK:82:VAL:HG21	20:AK:122:SER:OG	1.96	0.66
24:AO:49:PRO:HG3	24:AO:74:LEU:HD23	1.76	0.66
27:AR:114:PHE:HB3	27:AR:145:TRP:CE3	2.31	0.66
31:AV:5:ARG:HD3	31:AV:5:ARG:N	2.10	0.66
32:AW:106:ASP:HB2	32:AW:110:ARG:H	1.60	0.66
4:B4:112:ARG:O	4:B4:115:SER:HB3	1.96	0.66
4:B4:182:ALA:HB2	4:B4:190:PHE:CE2	2.31	0.66
10:BA:74:A:H1'	34:BY:179:ILE:HD11	1.76	0.66
10:BA:546:G:C2	10:BA:547:C:N4	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:948:A:H2'	10:BA:949:A:H5'	1.78	0.66
21:BL:34:LEU:O	21:BL:36:SER:N	2.29	0.66
22:BM:87:ASN:ND2	22:BM:99:GLN:HE21	1.93	0.66
23:BN:33:TYR:O	23:BN:33:TYR:CD1	2.46	0.66
25:BP:23:LEU:HD11	25:BP:71:ALA:CB	2.26	0.66
1:A1:45:VAL:HG12	1:A1:46:LYS:N	2.11	0.65
3:A3:118:CYS:HB3	10:AA:633:U:OP1	1.96	0.65
9:A9:109:VAL:CG2	30:AU:61:ALA:HB1	2.26	0.65
10:AA:1671:G:H2'	10:AA:1672:G:C8	2.31	0.65
16:AG:13:LEU:HD12	16:AG:14:PHE:H	1.61	0.65
24:AO:127:LEU:HD12	24:AO:131:TYR:CE2	2.31	0.65
28:AS:73:PRO:C	28:AS:75:GLY:H	2.04	0.65
30:AU:56:VAL:CG1	30:AU:60:LYS:HE3	2.23	0.65
32:AW:105:TYR:CD2	32:AW:191:ILE:HD12	2.31	0.65
34:AY:7:TYR:OH	34:AY:9:LEU:HD12	1.96	0.65
3:B3:52:LYS:HB3	3:B3:56:LYS:HE2	1.78	0.65
10:BA:256:U:H2'	10:BA:257:G:O4'	1.96	0.65
10:BA:561:A:OP1	21:BL:67:VAL:HB	1.97	0.65
10:BA:840:A:O2'	10:BA:841:A:OP2	2.14	0.65
10:BA:1158:U:H2'	10:BA:1159:U:O4'	1.95	0.65
10:BA:1429:G:H2'	10:BA:1429:G:N3	2.11	0.65
14:BE:33:LEU:O	14:BE:37:VAL:HG23	1.96	0.65
14:BE:35:ARG:HH22	14:BE:252:ALA:H	1.44	0.65
14:BE:157:GLN:NE2	14:BE:225:TYR:HB3	2.10	0.65
14:BE:189:LEU:HD13	14:BE:197:ILE:HD11	1.77	0.65
26:BQ:17:LEU:HD12	26:BQ:31:VAL:CG1	2.25	0.65
34:BY:98:ARG:HG2	34:BY:106:MET:HE1	1.77	0.65
2:A2:31:ARG:HG3	10:AA:323:U:OP1	1.95	0.65
4:A4:182:ALA:HB2	4:A4:190:PHE:CE2	2.31	0.65
11:AB:75:ARG:NH1	11:AB:162:ARG:HA	2.11	0.65
11:AB:156:VAL:CG2	35:AZ:80:HIS:HB2	2.26	0.65
14:AE:157:GLN:NE2	14:AE:225:TYR:HB3	2.11	0.65
16:AG:70:THR:HB	16:AG:150:ILE:HD12	1.76	0.65
27:AR:226:LYS:O	27:AR:242:ILE:HG13	1.96	0.65
28:AS:132:THR:HG22	28:AS:133:HIS:H	1.60	0.65
31:AV:112:GLN:NE2	31:AV:113:ASN:HD22	1.94	0.65
32:AW:125:LEU:HD23	32:AW:162:LEU:O	1.96	0.65
34:AY:98:ARG:HG2	34:AY:106:MET:HE1	1.79	0.65
3:B3:113:ARG:NH2	10:BA:633:U:OP1	2.30	0.65
3:B3:130:LEU:C	3:B3:132:LEU:H	2.03	0.65
5:B5:85:VAL:O	5:B5:86:VAL:HB	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:32:ASP:OD1	6:B6:43:MET:HE3	1.95	0.65
10:BA:777:U:H2'	10:BA:777:U:O2	1.95	0.65
10:BA:879:G:OP2	20:BK:39:ASP:HB2	1.95	0.65
10:BA:912:A:H3'	10:BA:912:A:N3	2.12	0.65
10:BA:1425:G:O3'	28:BS:127:THR:HG21	1.95	0.65
10:BA:1551:U:H2'	10:BA:1552:U:C6	2.31	0.65
26:BQ:87:ARG:HD3	26:BQ:104:ARG:NH2	2.11	0.65
32:BW:125:LEU:HD23	32:BW:162:LEU:O	1.97	0.65
32:BW:150:ARG:HG2	32:BW:151:PHE:HD1	1.60	0.65
4:A4:50:VAL:HG12	4:A4:51:THR:N	2.11	0.65
10:AA:1030:A:H2'	10:AA:1031:A:H8	1.61	0.65
10:AA:1069:U:HO2'	10:AA:1070:U:P	2.18	0.65
13:AD:110:GLN:HG3	13:AD:126:ARG:NE	2.12	0.65
14:AE:74:GLU:C	14:AE:76:LYS:H	2.05	0.65
19:AJ:49:GLU:CB	19:AJ:92:THR:HB	2.20	0.65
20:AK:95:ILE:HD11	20:AK:126:ILE:CG2	2.25	0.65
26:AQ:87:ARG:HD3	26:AQ:104:ARG:NH2	2.12	0.65
27:AR:95:SER:HB3	27:AR:97:ASP:OD1	1.97	0.65
29:AT:45:VAL:HG12	29:AT:46:ALA:N	2.11	0.65
4:B4:126:ALA:CB	4:B4:175:ASN:HD21	2.00	0.65
6:B6:34:LYS:HG2	6:B6:41:ILE:CG1	2.24	0.65
7:B7:9:LYS:O	7:B7:13:TYR:HD1	1.79	0.65
9:B9:85:LYS:HG3	9:B9:86:THR:N	2.10	0.65
10:BA:84:U:C2'	10:BA:85:G:C5'	2.74	0.65
10:BA:99:A:H3'	38:BA:2106:HOH:O	1.97	0.65
10:BA:1028:G:H5'	10:BA:1028:G:C8	2.28	0.65
10:BA:1474:G:O2'	29:BT:42:THR:HG21	1.95	0.65
10:BA:1532:U:H5	28:BS:45:LYS:HZ1	1.43	0.65
11:BB:109:THR:HG22	11:BB:111:LYS:H	1.61	0.65
16:BG:66:ARG:HH22	16:BG:143:ASN:HD21	1.44	0.65
25:BP:90:ARG:HB3	25:BP:96:GLY:O	1.96	0.65
31:BV:63:LYS:C	31:BV:65:PRO:HD2	2.21	0.65
4:A4:71:THR:HB	20:AK:128:ARG:CZ	2.26	0.65
5:A5:77:ILE:HG12	10:AA:1746:G:O6	1.95	0.65
6:A6:57:CYS:O	6:A6:58:SER:HB2	1.96	0.65
8:A8:96:VAL:HG21	16:AG:97:LEU:HD11	1.77	0.65
10:AA:1188:A:O5'	10:AA:1188:A:C8	2.50	0.65
10:AA:1325:G:C3'	10:AA:1326:C:H5"	2.25	0.65
10:AA:1462:U:C5	10:AA:1464:U:C4	2.82	0.65
15:AF:32:PHE:HD2	15:AF:72:LYS:HE2	1.59	0.65
27:AR:293:THR:HG21	27:AR:336:PHE:HE2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AV:17:ILE:HD13	31:AV:58:MET:HE3	1.78	0.65
5:B5:15:ARG:H	5:B5:15:ARG:CD	2.07	0.65
7:B7:52:ARG:HB2	7:B7:54:PHE:CE1	2.31	0.65
9:B9:97:ALA:HB1	30:BU:29:LEU:CD1	2.25	0.65
10:BA:223:C:H2'	10:BA:224:G:C8	2.31	0.65
10:BA:388:A:O2'	10:BA:389:G:H5'	1.97	0.65
10:BA:562:G:OP1	21:BL:69:LYS:HE2	1.97	0.65
10:BA:1071:U:H5"	10:BA:1072:G:OP2	1.96	0.65
10:BA:1244:U:C5'	10:BA:1245:G:OP2	2.45	0.65
10:BA:1325:G:C3'	10:BA:1326:C:H5"	2.26	0.65
10:BA:1740:C:OP2	20:BK:146:ARG:CB	2.36	0.65
21:BL:53:THR:O	21:BL:54:GLU:HB3	1.96	0.65
22:BM:81:ILE:HA	29:BT:40:TRP:CZ2	2.32	0.65
24:BO:86:LEU:CD1	24:BO:87:PRO:HD2	2.17	0.65
27:BR:92:ILE:HB	27:BR:124:VAL:HG11	1.78	0.65
31:BV:105:MET:HE1	31:BV:109:LEU:HD22	1.77	0.65
2:A2:35:MET:CE	2:A2:37:LYS:HG3	2.27	0.65
4:A4:89:LEU:CB	4:A4:101:THR:HG21	2.24	0.65
10:AA:573:A:N6	12:AC:148:GLN:HE22	1.93	0.65
10:AA:676:C:C4'	10:AA:677:G:H5'	2.24	0.65
10:AA:1259:A:N6	10:AA:1301:A:H5'	2.11	0.65
10:AA:1579:G:H3'	18:AI:126:MET:CE	2.27	0.65
16:AG:13:LEU:HD12	16:AG:14:PHE:N	2.12	0.65
16:AG:32:TYR:CE2	16:AG:138:PRO:HG2	2.31	0.65
18:AI:59:GLN:HA	18:AI:62:PHE:CD2	2.31	0.65
21:AL:117:PRO:HG2	21:AL:118:GLY:H	1.60	0.65
23:AN:27:GLN:O	23:AN:28:GLY:C	2.38	0.65
24:AO:13:ILE:HG22	24:AO:14:SER:O	1.97	0.65
27:AR:146:ASN:HD22	27:AR:150:GLU:CB	2.07	0.65
2:B2:31:ARG:HG3	10:BA:323:U:OP1	1.96	0.65
10:BA:124:U:H2'	10:BA:124:U:O2	1.96	0.65
10:BA:1471:C:P	29:BT:130:ARG:HH22	2.20	0.65
11:BB:172:TRP:HE1	11:BB:191:TRP:CD1	2.14	0.65
13:BD:17:ARG:HB3	13:BD:20:GLU:CG	2.26	0.65
14:BE:49:PHE:CD1	35:BZ:41:SER:HB3	2.30	0.65
14:BE:166:VAL:CG2	14:BE:210:ASN:HB3	2.26	0.65
15:BF:39:PRO:HG2	15:BF:42:PHE:CE1	2.30	0.65
22:BM:20:THR:HG22	22:BM:20:THR:O	1.97	0.65
22:BM:112:ASP:O	22:BM:115:ARG:HB3	1.97	0.65
32:BW:133:ILE:O	32:BW:133:ILE:HG13	1.96	0.65
3:A3:15:ILE:O	3:A3:19:VAL:HG23	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A8:32:LYS:H	15:BF:42:PHE:HA	1.60	0.65
10:AA:130:A:H2'	10:AA:131:U:C6	2.32	0.65
10:AA:133:A:C4'	10:AA:134:C:H5'	2.26	0.65
10:AA:371:U:O2'	10:AA:372:C:OP1	2.13	0.65
10:AA:797:A:O5'	10:AA:797:A:H8	1.78	0.65
10:AA:984:C:O2	20:AK:151:LEU:HD22	1.96	0.65
10:AA:1239:G:O2'	10:AA:1240:G:H5'	1.96	0.65
10:AA:1716:A:C2'	10:AA:1717:C:H5"	2.25	0.65
13:AD:127:VAL:O	13:AD:130:ARG:HB2	1.96	0.65
16:AG:22:VAL:HG22	16:AG:105:GLU:HB2	1.78	0.65
9:B9:81:THR:HG21	9:B9:83:LYS:HG2	1.78	0.65
10:BA:469:A:H2'	10:BA:470:G:C8	2.27	0.65
10:BA:645:C:H2'	10:BA:646:A:H8	1.61	0.65
10:BA:668:U:OP1	17:BH:119:ARG:NH2	2.29	0.65
10:BA:1430:C:N4	22:BM:139:LYS:HG3	2.11	0.65
10:BA:1648:C:H2'	10:BA:1649:U:O4'	1.96	0.65
10:BA:1746:G:O2'	10:BA:1747:A:C5'	2.42	0.65
11:BB:25:LEU:HD11	11:BB:42:HIS:CE1	2.31	0.65
14:BE:231:TRP:NE1	17:BH:68:ARG:CZ	2.53	0.65
18:BI:129:LYS:HA	18:BI:136:ALA:HA	1.79	0.65
23:BN:45:GLN:HB2	23:BN:49:ILE:HD11	1.78	0.65
27:BR:87:GLU:HB2	27:BR:89:CYS:SG	2.37	0.65
5:A5:58:ALA:O	5:A5:59:PHE:O	2.15	0.65
9:A9:100:PHE:O	9:A9:112:GLN:HB2	1.96	0.65
10:AA:74:A:N3	34:AY:179:ILE:CD1	2.59	0.65
10:AA:123:A:H4'	10:AA:124:U:OP1	1.96	0.65
10:AA:1171:G:N7	23:AN:39:ARG:HB3	2.12	0.65
10:AA:1374:C:O2	10:AA:1374:C:H2'	1.95	0.65
10:AA:1489:U:H5'	10:AA:1490:C:OP2	1.96	0.65
11:AB:51:GLN:NE2	35:AZ:95:ILE:H	1.94	0.65
20:AK:56:VAL:HG11	20:AK:77:ALA:HA	1.77	0.65
21:AL:116:ILE:CG2	21:AL:119:VAL:HB	2.20	0.65
25:AP:115:THR:HG22	25:AP:116:SER:N	2.11	0.65
6:B6:31:MET:HE2	6:B6:71:ILE:HD11	1.77	0.65
9:B9:157:UNK:O	9:B9:160:UNK:HG3	1.97	0.65
10:BA:107:U:O2'	10:BA:108:A:H5'	1.96	0.65
10:BA:236:U:C3'	10:BA:237:U:H5"	2.26	0.65
10:BA:327:G:H2'	10:BA:328:G:H5'	1.78	0.65
10:BA:381:G:H2'	10:BA:382:A:C8	2.31	0.65
10:BA:618:G:C2'	10:BA:619:C:H5'	2.27	0.65
10:BA:1263:G:N2	10:BA:1296:G:N2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1583:A:H2	10:BA:1584:U:C4	2.14	0.65
30:BU:96:LYS:HE3	30:BU:98:LYS:HZ1	1.60	0.65
31:BV:61:ILE:HG12	31:BV:66:VAL:CG2	2.20	0.65
2:A2:86:ILE:HD13	2:A2:86:ILE:O	1.97	0.65
8:A8:70:VAL:HG22	8:A8:75:VAL:O	1.96	0.65
10:AA:90:U:OP1	32:AW:3:ARG:HB2	1.97	0.65
10:AA:531:A:H8	10:AA:536:C:H42	1.44	0.65
10:AA:643:U:H2'	10:AA:644:U:O4'	1.96	0.65
10:AA:748:U:O2'	10:AA:751:U:OP1	2.15	0.65
10:AA:865:A:H5"	20:AK:134:PRO:HB2	1.79	0.65
10:AA:1199:G:H5"	10:AA:1200:G:H3'	1.78	0.65
14:AE:145:TRP:HZ3	14:AE:174:PRO:CG	2.10	0.65
14:AE:185:PRO:HG3	14:AE:211:PHE:CE2	2.32	0.65
22:AM:94:ASP:OD2	28:AS:16:LYS:HD2	1.96	0.65
4:B4:24:ASP:OD1	4:B4:25:PRO:HD2	1.97	0.65
8:B8:75:VAL:HG12	8:B8:79:LEU:HB3	1.77	0.65
10:BA:377:G:H21	10:BA:417:A:H8	1.43	0.65
10:BA:1374:C:H2'	10:BA:1374:C:O2	1.97	0.65
10:BA:1671:G:H2'	10:BA:1672:G:C8	2.31	0.65
11:BB:74:SER:OG	11:BB:125:SER:HB3	1.96	0.65
12:BC:84:ASP:C	12:BC:86:GLN:H	2.04	0.65
14:BE:145:TRP:H	14:BE:153:HIS:HE1	1.44	0.65
21:BL:117:PRO:HG2	21:BL:118:GLY:H	1.61	0.65
28:BS:73:PRO:C	28:BS:75:GLY:H	2.05	0.65
2:A2:121:TYR:CD2	2:A2:129:LEU:HD11	2.31	0.65
2:A2:178:SER:O	2:A2:180:PRO:HD3	1.97	0.65
10:AA:687:U:H2'	10:AA:688:A:C8	2.32	0.65
10:AA:1006:C:N3	10:AA:1745:G:O6	2.30	0.65
13:AD:37:LYS:HZ3	13:AD:126:ARG:HD2	1.61	0.65
14:AE:180:VAL:HG23	14:AE:197:ILE:O	1.97	0.65
16:AG:83:LEU:HD23	16:AG:84:CYS:N	2.11	0.65
20:AK:84:ARG:O	20:AK:84:ARG:HD2	1.96	0.65
21:AL:58:ILE:CG2	21:AL:117:PRO:HG3	2.27	0.65
25:AP:89:LEU:HD12	25:AP:95:LEU:HD22	1.79	0.65
26:AQ:70:ILE:HG22	26:AQ:71:LYS:N	2.11	0.65
27:AR:72:LEU:HB3	27:AR:103:TRP:CZ3	2.31	0.65
30:AU:16:ILE:HD12	30:AU:82:TYR:HD2	1.62	0.65
5:B5:90:CYS:O	5:B5:94:ARG:HG3	1.97	0.65
10:BA:46:A:O2'	10:BA:47:C:OP2	2.10	0.65
10:BA:74:A:N3	34:BY:179:ILE:HD12	2.12	0.65
10:BA:512:C:H3'	10:BA:513:A:C5'	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:771:A:H5"	10:BA:772:A:C5'	2.27	0.65
10:BA:1421:G:H4'	23:BN:6:TRP:HE3	1.61	0.65
10:BA:1465:C:H2'	10:BA:1466:C:C5'	2.25	0.65
13:BD:81:PHE:CZ	13:BD:88:GLU:HG3	2.21	0.65
15:BF:35:VAL:HG12	15:BF:38:ILE:HD11	1.79	0.65
20:BK:138:ASP:OD1	20:BK:139:SER:N	2.29	0.65
25:BP:89:LEU:HD12	25:BP:95:LEU:HD22	1.77	0.65
4:A4:139:ARG:NH1	10:AA:862:A:H5'	2.11	0.65
5:A5:38:ARG:CZ	10:AA:1751:U:C5	2.80	0.65
10:AA:246:U:C4	26:AQ:14:GLY:HA3	2.32	0.65
10:AA:948:A:H2'	10:AA:949:A:H5'	1.79	0.65
10:AA:1040:C:O2'	10:AA:1041:A:H5'	1.96	0.65
10:AA:1603:A:N7	10:AA:1717:C:H1'	2.12	0.65
13:AD:158:PHE:N	13:AD:158:PHE:HD1	1.93	0.65
14:AE:35:ARG:HH22	14:AE:252:ALA:H	1.44	0.65
26:AQ:120:ASP:OD1	26:AQ:120:ASP:N	2.26	0.65
27:AR:92:ILE:HG12	27:AR:102:LEU:HD23	1.78	0.65
6:B6:34:LYS:HB2	6:B6:76:ALA:HB3	1.78	0.65
10:BA:130:A:H2'	10:BA:131:U:C6	2.32	0.65
10:BA:328:G:H3'	26:BQ:132:LYS:HE2	1.77	0.65
10:BA:572:U:H4'	10:BA:573:A:H5'	1.78	0.65
10:BA:797:A:O5'	10:BA:797:A:H8	1.80	0.65
10:BA:934:U:H2'	10:BA:935:G:H5'	1.79	0.65
13:BD:63:ASP:OD1	13:BD:64:PRO:HD2	1.96	0.65
15:BF:65:ASP:O	15:BF:67:GLY:N	2.30	0.65
16:BG:169:ALA:O	16:BG:173:ILE:HG13	1.96	0.65
22:BM:28:THR:HG21	22:BM:61:LEU:HD11	1.79	0.65
27:BR:114:PHE:HB3	27:BR:145:TRP:CE3	2.32	0.65
31:BV:112:GLN:NE2	31:BV:113:ASN:HD22	1.95	0.65
2:A2:87:LEU:HD22	2:A2:171:ARG:HH11	1.62	0.64
3:A3:82:ILE:HG22	3:A3:86:LYS:HE3	1.78	0.64
9:A9:113:GLN:HA	9:A9:127:LYS:HE2	1.79	0.64
9:A9:129:TYR:CD1	9:A9:154:UNK:HG1	2.32	0.64
10:AA:212:A:H5"	10:AA:214:U:O4	1.97	0.64
10:AA:642:G:C2'	10:AA:643:U:H5'	2.26	0.64
10:AA:1081:G:H5'	10:AA:1081:G:C8	2.26	0.64
13:AD:171:ARG:HB3	13:AD:175:LYS:NZ	2.12	0.64
18:AI:7:GLN:HG3	18:AI:98:TYR:HE2	1.62	0.64
18:AI:133:GLY:HA3	18:AI:139:LYS:HA	1.79	0.64
32:AW:133:ILE:O	32:AW:133:ILE:HG13	1.97	0.64
2:B2:56:VAL:HG13	2:B2:57:ARG:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:45:PHE:CE2	24:BO:57:ARG:HD3	2.32	0.64
10:BA:642:G:C2'	10:BA:643:U:H5'	2.26	0.64
10:BA:1082:G:H1	10:BA:1108:U:H3	1.45	0.64
10:BA:1279:U:O2'	10:BA:1280:G:H5'	1.97	0.64
12:BC:165:GLN:H	12:BC:166:PRO:HD2	1.60	0.64
17:BH:74:VAL:HG13	17:BH:126:LEU:O	1.97	0.64
25:BP:15:LEU:CD2	32:BW:71:ASN:HB3	2.27	0.64
29:BT:45:VAL:HG12	29:BT:46:ALA:N	2.11	0.64
30:BU:14:LYS:O	30:BU:18:SER:HB3	1.97	0.64
32:BW:42:LEU:HD12	32:BW:47:LEU:HB2	1.79	0.64
34:BY:16:ILE:HD13	34:BY:45:PHE:CZ	2.32	0.64
1:A1:62:ARG:O	1:A1:63:GLU:HB3	1.98	0.64
10:AA:454:C:C2'	10:AA:455:C:H5"	2.26	0.64
11:AB:118:LEU:HD12	11:AB:119:ILE:N	2.12	0.64
12:AC:122:ALA:HA	12:AC:125:ILE:HD13	1.79	0.64
14:AE:205:THR:HG23	14:AE:211:PHE:CD1	2.32	0.64
17:AH:101:ASN:HB2	17:AH:129:PHE:O	1.96	0.64
21:AL:53:THR:O	21:AL:54:GLU:HB3	1.96	0.64
25:AP:140:SER:HA	25:AP:143:LEU:CD1	2.26	0.64
34:AY:16:ILE:HD13	34:AY:45:PHE:CZ	2.31	0.64
8:B8:72:LYS:HB2	8:B8:73:LEU:HD23	1.77	0.64
10:BA:249:A:H1'	32:BW:133:ILE:HD11	1.79	0.64
10:BA:328:G:C2'	26:BQ:132:LYS:HE2	2.27	0.64
10:BA:479:G:H3'	10:BA:480:A:H8	1.60	0.64
10:BA:970:A:H2'	10:BA:971:A:H5'	1.79	0.64
10:BA:983:A:H2'	10:BA:984:C:H6	1.62	0.64
10:BA:1095:G:H21	10:BA:1098:A:H2	1.46	0.64
10:BA:1444:U:OP2	16:BG:163:SER:HA	1.97	0.64
10:BA:1514:G:H22	10:BA:1540:G:C2'	2.09	0.64
10:BA:1693:A:H2'	10:BA:1694:U:H6	1.61	0.64
11:BB:10:ILE:O	11:BB:14:LEU:HB2	1.96	0.64
11:BB:51:GLN:HE22	35:BZ:95:ILE:HB	1.61	0.64
14:BE:196:ASP:O	14:BE:197:ILE:HG23	1.97	0.64
18:BI:59:GLN:HA	18:BI:62:PHE:CD2	2.30	0.64
22:BM:125:LEU:HG	22:BM:129:TRP:HE1	1.63	0.64
3:A3:66:HIS:CE1	10:AA:834:A:H5'	2.27	0.64
3:A3:130:LEU:C	3:A3:132:LEU:H	2.04	0.64
18:AI:16:LYS:O	18:AI:17:ASN:HB2	1.97	0.64
18:AI:112:MET:HE2	18:AI:112:MET:HA	1.79	0.64
21:AL:6:PRO:HG2	21:AL:15:LEU:HD21	1.79	0.64
23:AN:35:MET:O	23:AN:35:MET:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AQ:35:LYS:HG2	26:AQ:36:ASN:N	2.12	0.64
29:AT:45:VAL:H	29:AT:100:HIS:CD2	2.15	0.64
32:AW:248:GLU:HB3	32:AW:252:GLU:HB2	1.79	0.64
4:B4:50:VAL:HG12	4:B4:51:THR:N	2.13	0.64
4:B4:121:GLN:HE21	4:B4:145:PHE:HD2	1.43	0.64
8:B8:29:LYS:NZ	10:BA:1509:U:H5'	2.12	0.64
10:BA:155:U:H5"	34:BY:83:CYS:C	2.22	0.64
10:BA:451:G:O2'	10:BA:452:A:P	2.56	0.64
10:BA:500:U:H2'	10:BA:501:U:C5'	2.20	0.64
10:BA:1199:G:H5"	10:BA:1200:G:H3'	1.79	0.64
14:BE:69:LYS:HG2	14:BE:76:LYS:NZ	2.11	0.64
14:BE:167:ARG:HB2	14:BE:202:GLN:HB2	1.79	0.64
14:BE:182:ALA:HB1	14:BE:183:PRO:HD2	1.77	0.64
26:BQ:116:VAL:CG1	26:BQ:117:LYS:H	2.01	0.64
27:BR:92:ILE:HG12	27:BR:102:LEU:HD23	1.80	0.64
28:BS:42:PHE:CE2	28:BS:118:GLY:HA2	2.32	0.64
32:BW:105:TYR:CD2	32:BW:191:ILE:HD12	2.32	0.64
34:BY:41:LEU:HB3	34:BY:45:PHE:CD1	2.33	0.64
35:BZ:34:TRP:HD1	35:BZ:82:ALA:CB	2.10	0.64
5:A5:57:LEU:HD12	5:A5:58:ALA:H	1.60	0.64
6:A6:6:LEU:CD2	17:AH:62:VAL:HG21	2.25	0.64
10:AA:500:U:H2'	10:AA:501:U:C5'	2.20	0.64
10:AA:1263:G:H8	10:AA:1263:G:O5'	1.80	0.64
10:AA:1429:G:OP2	10:AA:1430:C:H5	1.80	0.64
13:AD:128:LEU:C	13:AD:130:ARG:H	2.06	0.64
14:AE:154:THR:CG2	14:AE:155:ILE:N	2.40	0.64
14:AE:166:VAL:CG2	14:AE:210:ASN:HB3	2.27	0.64
18:AI:32:LYS:HB3	18:AI:68:ARG:HA	1.80	0.64
22:AM:82:PRO:HD3	29:AT:40:TRP:CE2	2.32	0.64
24:AO:22:ARG:HA	24:AO:67:PHE:HE2	1.61	0.64
27:AR:129:ASP:O	27:AR:131:ARG:N	2.30	0.64
29:AT:60:ARG:NH2	29:AT:83:PHE:HD2	1.96	0.64
32:AW:109:GLY:CA	32:AW:191:ILE:HD11	2.24	0.64
32:AW:127:LYS:NZ	32:AW:186:GLN:HE22	1.96	0.64
6:B6:40:ASN:HB2	6:B6:56:LYS:CD	2.27	0.64
9:B9:97:ALA:C	9:B9:98:LEU:HD12	2.23	0.64
10:BA:1162:C:O2'	10:BA:1163:U:H5"	1.97	0.64
10:BA:1536:U:H2'	10:BA:1537:C:C6	2.31	0.64
10:BA:1613:C:H1'	10:BA:1715:A:C2	2.30	0.64
12:BC:15:VAL:HG11	23:BN:34:GLU:CB	2.28	0.64
13:BD:17:ARG:HB3	13:BD:20:GLU:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BH:77:PRO:HD2	17:BH:79:TYR:CE1	2.32	0.64
18:BI:22:ALA:CB	18:BI:86:ALA:HB1	2.28	0.64
20:BK:95:ILE:HD12	20:BK:129:ILE:CG2	2.26	0.64
21:BL:54:GLU:OE2	21:BL:56:ILE:HD11	1.97	0.64
21:BL:86:VAL:HG12	21:BL:91:CYS:HB3	1.80	0.64
22:BM:107:THR:HA	22:BM:110:ARG:HD2	1.79	0.64
23:BN:23:CYS:HB3	23:BN:41:CYS:SG	2.36	0.64
27:BR:146:ASN:HD22	27:BR:150:GLU:CB	2.08	0.64
34:BY:132:LYS:NZ	34:BY:163:ARG:CB	2.61	0.64
1:A1:46:LYS:HB3	16:AG:134:VAL:HG11	1.78	0.64
3:A3:102:SER:HA	10:AA:633:U:O4	1.97	0.64
4:A4:34:PHE:HB3	4:A4:45:PHE:O	1.97	0.64
5:A5:13:LYS:HD2	10:AA:1048:A:H5”	1.79	0.64
10:AA:125:U:C4’	10:AA:126:A:H5”	2.23	0.64
10:AA:506:U:H4’	13:AD:131:GLN:HB3	1.80	0.64
12:AC:84:ASP:C	12:AC:86:GLN:H	2.05	0.64
14:AE:167:ARG:HB2	14:AE:202:GLN:HB2	1.78	0.64
15:AF:73:LEU:HD23	15:AF:73:LEU:N	2.12	0.64
16:AG:122:ARG:HE	16:AG:129:VAL:CG1	2.10	0.64
17:AH:77:PRO:HD2	17:AH:79:TYR:CE1	2.33	0.64
22:AM:125:LEU:O	22:AM:129:TRP:CD1	2.44	0.64
25:AP:3:ILE:HG22	25:AP:4:VAL:N	2.11	0.64
25:AP:115:THR:HG22	25:AP:116:SER:H	1.62	0.64
25:AP:129:GLY:O	25:AP:130:ASP:HB2	1.97	0.64
26:AQ:17:LEU:CA	26:AQ:20:LYS:HE2	2.28	0.64
27:AR:127:SER:CB	27:AR:132:GLN:HB2	2.28	0.64
27:AR:268:GLN:OE1	27:AR:284:MET:HE1	1.96	0.64
35:AZ:54:VAL:HG13	35:AZ:59:GLN:O	1.98	0.64
5:B5:13:LYS:HD2	10:BA:1048:A:H5”	1.79	0.64
5:B5:58:ALA:O	5:B5:59:PHE:O	2.15	0.64
10:BA:1006:C:N3	10:BA:1745:G:O6	2.31	0.64
15:BF:26:ARG:HH21	15:BF:72:LYS:NZ	1.94	0.64
18:BI:16:LYS:O	18:BI:17:ASN:HB2	1.97	0.64
22:BM:28:THR:HG23	22:BM:58:ALA:HA	1.79	0.64
22:BM:125:LEU:CD2	22:BM:129:TRP:HE1	2.09	0.64
28:BS:14:ARG:HB3	28:BS:114:PHE:CD2	2.31	0.64
29:BT:56:TRP:HA	29:BT:59:ILE:HD12	1.79	0.64
29:BT:75:GLY:O	29:BT:79:LEU:HD12	1.97	0.64
7:A7:61:TRP:HE1	12:AC:26:SER:HB3	1.63	0.64
10:AA:72:G:C8	10:AA:72:G:H3’	2.32	0.64
10:AA:147:G:O2’	10:AA:148:C:H5’	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:564:A:N1	21:AL:115:ASP:CB	2.58	0.64
10:AA:765:A:N3	25:AP:19:ARG:HD3	2.12	0.64
10:AA:797:A:C2'	10:AA:798:G:O4'	2.42	0.64
10:AA:883:A:H5'	20:AK:66:ARG:HB3	1.79	0.64
10:AA:1257:U:O2'	10:AA:1258:U:OP2	2.13	0.64
10:AA:1551:U:H2'	10:AA:1552:U:C6	2.32	0.64
11:AB:186:SER:OG	11:AB:189:GLU:HB3	1.98	0.64
14:AE:145:TRP:H	14:AE:153:HIS:HE1	1.46	0.64
15:AF:26:ARG:HH21	15:AF:72:LYS:NZ	1.95	0.64
26:AQ:2:ASP:O	26:AQ:6:GLN:HB2	1.98	0.64
32:AW:230:LEU:HD13	32:AW:238:ILE:HD12	1.78	0.64
9:B9:97:ALA:O	9:B9:98:LEU:HD12	1.98	0.64
10:BA:43:U:H3'	10:BA:44:U:H5'	1.80	0.64
10:BA:215:A:H62	10:BA:811:U:H3	1.45	0.64
10:BA:249:A:H5'	32:BW:134:GLY:HA2	1.80	0.64
10:BA:585:A:H2'	10:BA:586:A:C8	2.32	0.64
10:BA:673:A:H2'	10:BA:675:A:N6	2.09	0.64
10:BA:804:A:H2'	10:BA:805:G:H8	1.62	0.64
10:BA:1000:U:H4'	10:BA:1097:A:N6	2.13	0.64
25:BP:21:LEU:HD23	25:BP:21:LEU:H	1.63	0.64
25:BP:85:PRO:HA	32:BW:59:ARG:NH1	2.11	0.64
30:BU:55:TYR:O	30:BU:59:VAL:HG23	1.97	0.64
35:BZ:78:GLU:O	35:BZ:81:ILE:HG22	1.98	0.64
10:AA:17:C:H5'	10:AA:1081:G:H5"	1.79	0.64
10:AA:223:C:H2'	10:AA:224:G:C8	2.31	0.64
10:AA:726:U:C6	10:AA:792:G:N2	2.65	0.64
10:AA:1095:G:H21	10:AA:1098:A:H2	1.46	0.64
10:AA:1473:G:N2	10:AA:1475:G:H3'	2.13	0.64
10:AA:1696:U:O2'	10:AA:1697:G:H5'	1.97	0.64
10:AA:1748:U:O2'	10:AA:1749:C:OP1	2.12	0.64
11:AB:12:ARG:O	11:AB:15:ALA:HB3	1.98	0.64
12:AC:170:TYR:CZ	12:AC:205:VAL:HG11	2.33	0.64
13:AD:69:ARG:HH21	13:AD:92:LYS:HZ1	1.45	0.64
14:AE:163:SER:O	14:AE:165:SER:N	2.31	0.64
14:AE:205:THR:HG23	14:AE:211:PHE:CE1	2.33	0.64
16:AG:71:LEU:HD12	16:AG:71:LEU:O	1.98	0.64
24:AO:86:LEU:CD1	24:AO:87:PRO:HD2	2.18	0.64
30:AU:94:ILE:CG2	30:AU:95:LYS:H	2.11	0.64
1:B1:19:GLY:C	1:B1:21:ARG:N	2.56	0.64
2:B2:56:VAL:HG22	10:BA:324:A:P	2.37	0.64
10:BA:603:U:OP2	10:BA:603:U:H6	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1001:A:O2'	10:BA:1002:U:H6	1.81	0.64
10:BA:1215:G:N3	10:BA:1215:G:H2'	2.13	0.64
12:BC:165:GLN:N	12:BC:166:PRO:CD	2.60	0.64
12:BC:227:ILE:HG21	27:BR:246:THR:HG23	1.80	0.64
18:BI:32:LYS:HB3	18:BI:68:ARG:HA	1.80	0.64
21:BL:133:ALA:O	21:BL:139:LYS:HB2	1.98	0.64
27:BR:268:GLN:OE1	27:BR:284:MET:HE1	1.98	0.64
34:BY:64:LYS:HZ1	34:BY:82:SER:N	1.94	0.64
2:A2:29:LYS:HZ1	10:AA:391:A:N6	1.95	0.64
3:A3:127:LEU:O	3:A3:131:LEU:HG	1.98	0.64
6:A6:40:ASN:HB2	6:A6:56:LYS:CD	2.27	0.64
8:A8:80:ALA:O	8:A8:84:MET:HG3	1.97	0.64
10:AA:173:A:H8	10:AA:173:A:H5'	1.62	0.64
10:AA:294:U:O2'	10:AA:295:U:H5'	1.96	0.64
10:AA:833:A:H2'	10:AA:834:A:OP1	1.98	0.64
10:AA:1332:A:H2'	10:AA:1333:A:N9	2.13	0.64
11:AB:99:TRP:CH2	11:AB:103:THR:HB	2.32	0.64
13:AD:94:ASP:CB	14:AE:149:ILE:HD11	2.22	0.64
13:AD:118:LEU:HD11	13:AD:158:PHE:CZ	2.33	0.64
15:AF:48:MET:HE3	15:AF:71:ILE:HG12	1.78	0.64
16:AG:13:LEU:CD2	16:AG:104:LEU:HD21	2.28	0.64
17:AH:125:ILE:HG22	17:AH:126:LEU:N	2.11	0.64
27:AR:265:PRO:O	27:AR:266:LYS:HG3	1.98	0.64
28:AS:83:THR:HG23	28:AS:85:TYR:N	2.12	0.64
30:AU:120:ILE:C	30:AU:122:GLY:H	2.06	0.64
2:B2:39:THR:HG21	2:B2:48:LYS:HD3	1.80	0.64
2:B2:87:LEU:HD22	2:B2:171:ARG:HH11	1.62	0.64
9:B9:124:PHE:CD1	9:B9:124:PHE:N	2.66	0.64
10:BA:45:A:C4'	10:BA:46:A:H5'	2.17	0.64
10:BA:89:A:C5	10:BA:390:A:C2	2.85	0.64
10:BA:937:U:H4'	10:BA:938:U:OP1	1.97	0.64
21:BL:58:ILE:CG2	21:BL:117:PRO:HG3	2.24	0.64
21:BL:69:LYS:NZ	21:BL:92:LEU:HD23	2.12	0.64
25:BP:115:THR:HG21	25:BP:119:ALA:HB3	1.77	0.64
27:BR:95:SER:HB3	27:BR:97:ASP:OD1	1.97	0.64
31:BV:5:ARG:CB	31:BV:10:LYS:HE2	2.27	0.64
34:BY:90:GLY:O	34:BY:92:ARG:HG3	1.97	0.64
1:A1:24:ILE:HD12	1:A1:24:ILE:H	1.63	0.64
1:A1:45:VAL:HG12	1:A1:46:LYS:H	1.61	0.64
2:A2:56:VAL:HG13	2:A2:57:ARG:N	2.11	0.64
4:A4:38:ILE:HG22	4:A4:39:PRO:CD	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:97:ALA:C	9:A9:98:LEU:HD12	2.22	0.64
10:AA:163:A:OP1	34:AY:137:ARG:NE	2.31	0.64
10:AA:760:G:H21	10:AA:766:G:H22	1.45	0.64
10:AA:1648:C:H2'	10:AA:1649:U:O4'	1.96	0.64
12:AC:12:LYS:O	12:AC:15:VAL:HG12	1.97	0.64
1:B1:24:ILE:H	1:B1:24:ILE:HD12	1.63	0.64
10:BA:75:C:O4'	34:BY:178:LYS:HG2	1.97	0.64
10:BA:97:U:H2'	10:BA:98:U:C5'	2.28	0.64
10:BA:181:G:C3'	10:BA:182:U:H5'	2.27	0.64
10:BA:1013:G:O2'	10:BA:1014:A:H5'	1.98	0.64
11:BB:163:SER:HB3	11:BB:165:GLU:OE1	1.98	0.64
14:BE:228:PRO:C	14:BE:230:PHE:H	2.06	0.64
25:BP:3:ILE:HG22	25:BP:4:VAL:N	2.13	0.64
26:BQ:2:ASP:O	26:BQ:6:GLN:HB2	1.98	0.64
32:BW:248:GLU:HB3	32:BW:252:GLU:HB2	1.80	0.64
5:A5:84:ARG:HH12	10:AA:1125:A:H5'	1.63	0.64
5:A5:85:VAL:O	5:A5:86:VAL:HB	1.97	0.64
10:AA:327:G:H2'	10:AA:328:G:H5'	1.80	0.64
10:AA:328:G:C2'	26:AQ:132:LYS:HE2	2.27	0.64
10:AA:1331:A:H2	10:AA:1334:U:H5	1.46	0.64
10:AA:1594:G:H2'	10:AA:1595:C:C6	2.33	0.64
10:AA:1606:C:H6	10:AA:1606:C:H3'	1.63	0.64
17:AH:35:LEU:HD21	17:AH:61:VAL:HG21	1.80	0.64
18:AI:11:THR:HG21	18:AI:86:ALA:O	1.97	0.64
31:AV:107:LYS:HG2	31:AV:112:GLN:HB2	1.80	0.64
32:AW:143:THR:HG22	32:AW:145:ASP:H	1.63	0.64
34:AY:90:GLY:O	34:AY:92:ARG:HG3	1.97	0.64
8:B8:43:VAL:HA	8:B8:79:LEU:HD12	1.80	0.64
8:B8:60:VAL:HG13	8:B8:72:LYS:CG	2.28	0.64
10:BA:12:U:H1'	10:BA:1272:A:N3	2.13	0.64
10:BA:123:A:H4'	10:BA:124:U:OP1	1.97	0.64
10:BA:623:U:H3	10:BA:948:A:N6	1.96	0.64
10:BA:797:A:O2'	10:BA:798:G:H5'	1.98	0.64
10:BA:938:U:H5'	24:BO:57:ARG:HE	1.62	0.64
11:BB:5:ARG:HH11	11:BB:5:ARG:CA	2.07	0.64
11:BB:172:TRP:HE1	11:BB:191:TRP:HD1	1.46	0.64
12:BC:205:VAL:CG1	12:BC:206:LYS:H	2.10	0.64
20:BK:103:VAL:CG1	20:BK:142:ARG:HG2	2.28	0.64
27:BR:317:TRP:CZ3	27:BR:324:LEU:HD22	2.33	0.64
32:BW:230:LEU:CD1	32:BW:238:ILE:HD12	2.28	0.64
33:BX:66:LYS:HD2	33:BX:69:LYS:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:19:GLY:C	1:A1:21:ARG:N	2.55	0.63
6:A6:34:LYS:HB2	6:A6:76:ALA:HB3	1.78	0.63
10:AA:490:U:H2'	10:AA:491:U:O4'	1.98	0.63
10:AA:880:G:O6	20:AK:68:GLU:CD	2.41	0.63
10:AA:1652:A:H2'	34:AY:65:GLN:HE21	1.63	0.63
13:AD:53:ARG:HG3	13:AD:97:LEU:HD22	1.80	0.63
14:AE:69:LYS:HG2	14:AE:76:LYS:NZ	2.12	0.63
32:AW:42:LEU:HB2	32:AW:111:PHE:CD2	2.32	0.63
4:B4:77:ASP:C	4:B4:79:SER:H	2.06	0.63
4:B4:139:ARG:HG2	4:B4:141:PHE:CE1	2.33	0.63
10:BA:1572:A:H2'	10:BA:1573:G:H5"	1.79	0.63
10:BA:1583:A:C2	10:BA:1584:U:C4	2.86	0.63
10:BA:1606:C:H6	10:BA:1606:C:H3'	1.62	0.63
11:BB:12:ARG:HB2	11:BB:169:MET:SD	2.39	0.63
12:BC:47:THR:HG22	12:BC:48:LYS:HG3	1.80	0.63
13:BD:132:ARG:O	13:BD:134:ILE:N	2.30	0.63
14:BE:154:THR:HG21	14:BE:172:PRO:CA	2.12	0.63
16:BG:137:ALA:O	16:BG:141:ARG:HB2	1.98	0.63
26:BQ:17:LEU:CA	26:BQ:20:LYS:HE2	2.29	0.63
27:BR:184:ALA:N	27:BR:206:ARG:HH22	1.93	0.63
1:A1:11:ILE:HG12	1:A1:27:VAL:HG11	1.80	0.63
2:A2:84:THR:HG22	2:A2:85:LYS:N	2.13	0.63
3:A3:129:ASP:HA	3:A3:132:LEU:HD13	1.80	0.63
5:A5:67:PRO:HG2	20:AK:129:ILE:O	1.98	0.63
10:AA:8:U:H3	10:AA:1112:A:N6	1.96	0.63
10:AA:310:C:H5'	10:AA:310:C:H6	1.62	0.63
10:AA:797:A:O2'	10:AA:798:G:H5'	1.97	0.63
10:AA:1162:C:O2'	10:AA:1163:U:H5"	1.97	0.63
10:AA:1753:A:OP1	10:AA:1753:A:C8	2.48	0.63
12:AC:228:ARG:HB2	27:AR:207:TYR:HE2	1.64	0.63
14:AE:228:PRO:C	14:AE:230:PHE:H	2.06	0.63
16:AG:133:ALA:HB2	16:AG:200:ARG:HB2	1.80	0.63
22:AM:28:THR:HG23	22:AM:58:ALA:HA	1.81	0.63
32:AW:188:GLY:O	32:AW:191:ILE:HG23	1.98	0.63
3:B3:137:ILE:HD11	3:B3:189:ASP:OD1	1.97	0.63
5:B5:26:CYS:SG	5:B5:28:ARG:HB3	2.38	0.63
7:B7:63:PHE:HB2	7:B7:65:TYR:HE1	1.62	0.63
9:B9:147:UNK:HG2	9:B9:148:UNK:N	2.13	0.63
10:BA:494:A:O2'	33:BX:47:PRO:HG3	1.98	0.63
10:BA:626:U:OP1	26:BQ:101:LYS:HE3	1.99	0.63
13:BD:66:ASP:O	13:BD:70:LEU:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:107:ASP:O	14:BE:109:ASN:N	2.30	0.63
14:BE:247:PHE:O	14:BE:249:HIS:N	2.31	0.63
24:BO:55:ILE:HG23	24:BO:59:GLN:HG3	1.80	0.63
25:BP:115:THR:HG22	25:BP:116:SER:N	2.12	0.63
25:BP:129:GLY:O	25:BP:130:ASP:HB2	1.97	0.63
27:BR:75:HIS:ND1	27:BR:95:SER:HB2	2.13	0.63
29:BT:72:PRO:O	29:BT:73:HIS:HB2	1.98	0.63
9:A9:142:LYS:CE	9:A9:147:UNK:HB2	2.29	0.63
10:AA:8:U:H3	10:AA:1112:A:H62	1.46	0.63
10:AA:26:U:H2'	10:AA:27:A:C5'	2.25	0.63
10:AA:215:A:C6	10:AA:822:U:H1'	2.33	0.63
10:AA:1069:U:C4	14:AE:202:GLN:HG3	2.34	0.63
10:AA:1119:G:H4'	14:AE:91:THR:HA	1.80	0.63
10:AA:1752:U:O2'	10:AA:1753:A:O5'	2.14	0.63
13:AD:66:ASP:O	13:AD:70:LEU:HG	1.98	0.63
14:AE:231:TRP:CD1	17:AH:68:ARG:HG3	2.32	0.63
19:AJ:93:CYS:HB3	19:AJ:97:ASP:HB2	1.79	0.63
26:AQ:27:THR:HG22	26:AQ:28:SER:N	2.11	0.63
32:AW:203:HIS:O	32:AW:205:GLY:N	2.23	0.63
3:B3:144:ARG:HH21	3:B3:145:LEU:HG	1.63	0.63
4:B4:155:SER:H	4:B4:158:SER:HB2	1.63	0.63
10:BA:262:G:H1	10:BA:280:U:H3	1.46	0.63
10:BA:574:A:N6	10:BA:577:C:C2	2.65	0.63
10:BA:1278:C:N4	10:BA:1290:G:H1	1.94	0.63
14:BE:185:PRO:HG3	14:BE:211:PHE:CE2	2.33	0.63
16:BG:106:VAL:HA	16:BG:176:GLU:OE1	1.98	0.63
22:BM:119:ILE:HG23	28:BS:124:PHE:HE2	1.62	0.63
26:BQ:8:ALA:HB3	26:BQ:11:LYS:HE2	1.81	0.63
26:BQ:70:ILE:HG22	26:BQ:71:LYS:N	2.13	0.63
27:BR:129:ASP:O	27:BR:131:ARG:N	2.32	0.63
28:BS:31:GLU:HG3	28:BS:32:LYS:H	1.63	0.63
32:BW:210:CYS:HB3	32:BW:227:ILE:HD11	1.80	0.63
34:BY:102:VAL:HG11	34:BY:109:LEU:HD11	1.80	0.63
3:A3:178:THR:HG21	3:A3:180:ARG:CD	2.29	0.63
4:A4:155:SER:H	4:A4:158:SER:HB2	1.62	0.63
5:A5:26:CYS:SG	5:A5:28:ARG:HB3	2.38	0.63
8:A8:43:VAL:CG1	22:AM:57:ARG:HD2	2.28	0.63
10:AA:97:U:H2'	10:AA:98:U:C5'	2.28	0.63
10:AA:297:U:OP1	26:AQ:104:ARG:HD3	1.97	0.63
10:AA:968:C:H2'	10:AA:969:A:O4'	1.98	0.63
10:AA:1731:G:C3'	10:AA:1732:U:H5"	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AH:3:LYS:O	17:AH:4:VAL:HG13	1.99	0.63
22:AM:1:MET:HE3	22:AM:2:SER:C	2.23	0.63
27:AR:168:VAL:O	27:AR:169:ARG:HD3	1.97	0.63
32:AW:11:ARG:HH12	32:AW:20:LEU:HD22	1.63	0.63
2:B2:121:TYR:CD2	2:B2:129:LEU:HD11	2.33	0.63
2:B2:178:SER:O	2:B2:180:PRO:HD3	1.97	0.63
10:BA:18:C:O2'	10:BA:19:A:H5'	1.97	0.63
10:BA:243:G:H1'	32:BW:204:GLN:HE21	1.64	0.63
10:BA:689:A:H2'	10:BA:690:A:C8	2.34	0.63
10:BA:1340:G:N2	10:BA:1341:U:H1'	2.12	0.63
10:BA:1752:U:O2'	10:BA:1753:A:O5'	2.13	0.63
15:BF:48:MET:HE2	15:BF:48:MET:HA	1.80	0.63
27:BR:51:VAL:HB	27:BR:72:LEU:HD12	1.80	0.63
34:BY:136:LYS:O	34:BY:179:ILE:HG23	1.97	0.63
1:A1:10:ARG:HB2	1:A1:53:ASP:O	1.98	0.63
2:A2:39:THR:HG21	2:A2:48:LYS:HD3	1.80	0.63
3:A3:95:THR:CG2	3:A3:96:ALA:N	2.62	0.63
7:A7:52:ARG:HB2	7:A7:54:PHE:CE1	2.33	0.63
9:A9:157:UNK:O	9:A9:160:UNK:HG3	1.98	0.63
10:AA:506:U:C5'	13:AD:131:GLN:HB3	2.27	0.63
10:AA:645:C:H2'	10:AA:646:A:H8	1.62	0.63
10:AA:689:A:H2'	10:AA:690:A:C8	2.34	0.63
10:AA:1252:C:O2'	19:AJ:68:SER:HB2	1.99	0.63
10:AA:1419:G:H2'	10:AA:1420:U:O4'	1.98	0.63
18:AI:44:GLN:CA	18:AI:47:GLN:HE21	1.99	0.63
22:AM:20:THR:HG22	22:AM:20:THR:O	1.98	0.63
22:AM:107:THR:HA	22:AM:110:ARG:HD2	1.80	0.63
25:AP:9:LYS:H	25:AP:22:SER:HB2	1.63	0.63
7:B7:11:ARG:HG3	7:B7:15:GLN:HE21	1.64	0.63
8:B8:66:VAL:O	8:B8:70:VAL:HG23	1.98	0.63
10:BA:490:U:H2'	10:BA:491:U:O4'	1.98	0.63
10:BA:735:G:H22	10:BA:780:G:H1	1.44	0.63
10:BA:1430:C:O2'	10:BA:1431:A:C5'	2.47	0.63
16:BG:13:LEU:HD12	16:BG:14:PHE:H	1.64	0.63
25:BP:115:THR:HG22	25:BP:116:SER:H	1.63	0.63
25:BP:140:SER:HA	25:BP:143:LEU:CD1	2.26	0.63
28:BS:91:ILE:HG23	28:BS:92:PRO:HD2	1.80	0.63
32:BW:49:LYS:NZ	32:BW:58:GLY:HA2	2.14	0.63
34:BY:199:THR:O	34:BY:203:VAL:HG23	1.97	0.63
2:A2:155:LYS:HD3	2:A2:157:GLN:OE1	1.98	0.63
3:A3:123:TYR:CD2	3:A3:178:THR:HG23	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:408:C:H4'	10:AA:409:G:O5'	1.99	0.63
10:AA:426:G:OP1	21:AL:77:LYS:HB2	1.99	0.63
10:AA:766:G:N2	10:AA:767:C:C2	2.67	0.63
10:AA:929:A:C2'	10:AA:930:A:H5'	2.29	0.63
10:AA:1645:C:H42	10:AA:1680:A:H61	1.46	0.63
18:AI:129:LYS:HA	18:AI:136:ALA:HA	1.81	0.63
21:AL:62:GLN:CB	21:AL:63:PRO:CD	2.77	0.63
25:AP:115:THR:HG21	25:AP:119:ALA:HB3	1.79	0.63
26:AQ:71:LYS:HB3	26:AQ:157:PHE:CE2	2.34	0.63
35:AZ:34:TRP:HD1	35:AZ:82:ALA:CB	2.11	0.63
1:B1:46:LYS:NZ	16:BG:140:ARG:HH21	1.96	0.63
10:BA:133:A:C4'	10:BA:134:C:H5'	2.23	0.63
10:BA:371:U:O2	10:BA:371:U:H2'	1.97	0.63
10:BA:408:C:H4'	10:BA:409:G:O5'	1.98	0.63
10:BA:884:A:OP1	20:BK:66:ARG:HG2	1.98	0.63
10:BA:1101:C:H2'	10:BA:1102:U:O4'	1.98	0.63
12:BC:12:LYS:O	12:BC:15:VAL:HG12	1.98	0.63
31:BV:5:ARG:HD3	31:BV:5:ARG:N	2.13	0.63
32:BW:73:PHE:CE2	32:BW:78:VAL:HG22	2.34	0.63
32:BW:102:ARG:HE	32:BW:238:ILE:HG21	1.63	0.63
1:A1:18:THR:CG2	1:A1:19:GLY:H	2.08	0.63
7:A7:38:PRO:HB2	7:A7:41:HIS:HD2	1.62	0.63
8:A8:65:THR:HG21	16:AG:166:GLU:OE2	1.99	0.63
9:A9:147:UNK:HG2	9:A9:148:UNK:N	2.14	0.63
10:AA:315:U:O2'	26:AQ:79:MET:HE1	1.97	0.63
10:AA:444:A:C2'	10:AA:445:U:H5'	2.29	0.63
10:AA:1069:U:O2'	10:AA:1070:U:OP2	2.14	0.63
10:AA:1504:U:O2'	10:AA:1505:C:H5'	1.99	0.63
12:AC:36:GLY:O	12:AC:55:ALA:HA	1.99	0.63
12:AC:67:LYS:O	12:AC:71:GLU:HG3	1.99	0.63
17:AH:5:ASN:OD1	17:AH:7:LEU:HB3	1.99	0.63
25:AP:2:THR:HG22	25:AP:3:ILE:N	2.00	0.63
25:AP:21:LEU:HD23	25:AP:21:LEU:H	1.63	0.63
27:AR:86:GLN:HB2	27:AR:130:ASN:HD21	1.64	0.63
30:AU:79:LEU:HD13	30:AU:103:LEU:HD21	1.80	0.63
32:AW:36:HIS:CG	32:AW:87:GLY:HA3	2.34	0.63
2:B2:140:ASN:ND2	10:BA:182:U:H3	1.96	0.63
4:B4:34:PHE:HE1	4:B4:89:LEU:HD12	1.64	0.63
8:B8:27:LYS:HG2	10:BA:1509:U:H5	1.64	0.63
10:BA:186:C:H2'	10:BA:187:U:O4'	1.99	0.63
10:BA:294:U:O2'	10:BA:295:U:H5'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:769:C:O3'	32:BW:257:LYS:NZ	2.32	0.63
10:BA:1469:U:H4'	29:BT:126:LYS:HB3	1.80	0.63
10:BA:1476:A:H2'	10:BA:1477:A:H5'	1.79	0.63
10:BA:1580:U:C5'	18:BI:74:SER:HB2	2.27	0.63
11:BB:99:TRP:CH2	11:BB:103:THR:HB	2.33	0.63
13:BD:20:GLU:HB2	13:BD:23:ARG:HB3	1.79	0.63
17:BH:5:ASN:OD1	17:BH:7:LEU:HB3	1.98	0.63
18:BI:57:LEU:HD23	18:BI:110:GLN:HG2	1.81	0.63
18:BI:120:VAL:HG12	18:BI:121:ALA:N	2.12	0.63
26:BQ:22:LEU:HD21	26:BQ:27:THR:HG23	1.81	0.63
27:BR:255:GLY:H	27:BR:279:LYS:HE3	1.64	0.63
28:BS:83:THR:HG23	28:BS:85:TYR:H	1.64	0.63
29:BT:45:VAL:H	29:BT:100:HIS:CD2	2.16	0.63
32:BW:36:HIS:CG	32:BW:87:GLY:HA3	2.34	0.63
2:A2:22:ARG:HD2	2:A2:25:ARG:CZ	2.29	0.63
3:A3:68:GLN:NE2	10:AA:835:U:OP1	2.32	0.63
10:AA:18:C:O2'	10:AA:19:A:H5'	1.98	0.63
10:AA:1474:G:O2'	29:AT:42:THR:HG21	1.99	0.63
10:AA:1603:A:H62	10:AA:1717:C:C4'	2.12	0.63
13:AD:20:GLU:HB2	13:AD:23:ARG:HB3	1.80	0.63
13:AD:100:THR:HG22	13:AD:102:HIS:H	1.64	0.63
14:AE:192:ALA:HB3	14:AE:194:VAL:HG23	1.80	0.63
16:AG:99:THR:HG22	16:AG:99:THR:O	1.99	0.63
27:AR:211:ALA:C	27:AR:212:HIS:HD2	2.07	0.63
29:AT:56:TRP:HA	29:AT:59:ILE:HD12	1.80	0.63
32:AW:89:MET:HA	32:AW:89:MET:HE2	1.81	0.63
34:AY:66:GLY:O	34:AY:68:MET:N	2.32	0.63
35:AZ:32:CYS:HB2	35:AZ:70:CYS:HB3	1.81	0.63
9:B9:126:ALA:HB2	10:BA:1224:C:O4'	1.99	0.63
10:BA:26:U:H2'	10:BA:27:A:C5'	2.26	0.63
10:BA:212:A:H5"	10:BA:214:U:O4	1.98	0.63
10:BA:224:G:C2'	10:BA:225:C:H5'	2.29	0.63
10:BA:339:C:O2'	10:BA:340:A:H5'	1.99	0.63
10:BA:564:A:N1	21:BL:115:ASP:CB	2.58	0.63
10:BA:897:A:O2'	10:BA:898:U:H5'	1.99	0.63
10:BA:904:A:H2'	10:BA:905:C:H6	1.64	0.63
10:BA:1008:A:H5"	10:BA:1009:U:OP2	1.98	0.63
10:BA:1069:U:C4	14:BE:202:GLN:HG3	2.34	0.63
10:BA:1225:U:OP2	30:BU:30:HIS:HE1	1.81	0.63
11:BB:12:ARG:O	11:BB:15:ALA:HB3	1.99	0.63
13:BD:171:ARG:HB3	13:BD:175:LYS:NZ	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:19:ARG:HH11	21:BL:19:ARG:CA	2.08	0.63
23:BN:27:GLN:O	23:BN:28:GLY:C	2.39	0.63
27:BR:75:HIS:NE2	27:BR:101:ARG:HG3	2.14	0.63
27:BR:146:ASN:C	27:BR:148:LEU:N	2.56	0.63
27:BR:276:GLN:O	27:BR:294:ILE:HG23	1.99	0.63
32:BW:108:LYS:CG	32:BW:110:ARG:HH21	2.11	0.63
34:BY:67:VAL:O	34:BY:67:VAL:HG13	1.99	0.63
4:A4:77:ASP:C	4:A4:79:SER:H	2.06	0.63
6:A6:77:PHE:CD1	6:A6:77:PHE:O	2.52	0.63
10:AA:181:G:C3'	10:AA:182:U:H5'	2.29	0.63
10:AA:262:G:H1	10:AA:280:U:H3	1.47	0.63
10:AA:392:A:H3'	10:AA:393:C:O4'	1.99	0.63
10:AA:1064:A:H4'	10:AA:1065:A:OP1	1.97	0.63
10:AA:1465:C:H2'	10:AA:1466:C:C5'	2.28	0.63
10:AA:1583:A:C2	10:AA:1584:U:C4	2.86	0.63
12:AC:15:VAL:HG11	23:AN:34:GLU:CB	2.25	0.63
16:AG:137:ALA:HB1	16:AG:138:PRO:HD2	1.80	0.63
16:AG:193:GLU:O	16:AG:197:LYS:HG3	1.99	0.63
17:AH:17:ALA:HA	17:AH:22:LYS:HE3	1.81	0.63
17:AH:130:TYR:HD1	17:AH:130:TYR:O	1.82	0.63
22:AM:93:LYS:O	28:AS:16:LYS:HB2	1.99	0.63
28:AS:69:LYS:HZ1	28:AS:94:LEU:C	2.05	0.63
28:AS:78:PRO:HB2	28:AS:98:ILE:HG12	1.80	0.63
29:AT:75:GLY:O	29:AT:79:LEU:HD12	1.98	0.63
30:AU:36:ILE:HG23	30:AU:68:ILE:HD12	1.81	0.63
32:AW:210:CYS:HB3	32:AW:227:ILE:HD11	1.80	0.63
9:B9:98:LEU:HB3	9:B9:100:PHE:HE1	1.63	0.63
10:BA:833:A:C2'	10:BA:834:A:OP1	2.47	0.63
10:BA:1360:U:H2'	31:BV:3:ARG:NH1	2.12	0.63
10:BA:1605:A:O2'	10:BA:1606:C:P	2.56	0.63
11:BB:144:CYS:SG	11:BB:156:VAL:HG13	2.39	0.63
14:BE:224:ARG:CD	35:BZ:40:PHE:HZ	2.12	0.63
27:BR:51:VAL:HG13	27:BR:82:LEU:HD11	1.80	0.63
10:AA:243:G:H1'	32:AW:204:GLN:HE21	1.63	0.62
10:AA:760:G:N2	10:AA:766:G:H1	1.95	0.62
10:AA:845:G:OP1	24:AO:5:GLN:HB3	1.99	0.62
10:AA:1366:G:C2'	10:AA:1367:C:H5'	2.29	0.62
12:AC:205:VAL:CG1	12:AC:206:LYS:H	2.11	0.62
13:AD:38:ASN:ND2	13:AD:40:ARG:HD2	2.14	0.62
14:AE:107:ASP:OD1	14:AE:111:HIS:HB2	1.99	0.62
21:AL:133:ALA:O	21:AL:139:LYS:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AP:10:ILE:HG12	25:AP:21:LEU:CB	2.29	0.62
28:AS:42:PHE:CE2	28:AS:118:GLY:HA2	2.34	0.62
31:AV:58:MET:O	31:AV:62:GLN:HG2	1.98	0.62
33:AX:44:ARG:HG3	33:AX:45:TYR:N	2.14	0.62
10:BA:147:G:O2'	10:BA:148:C:H5'	1.97	0.62
10:BA:968:C:H2'	10:BA:969:A:O4'	1.99	0.62
10:BA:1030:A:H2'	10:BA:1031:A:H8	1.61	0.62
10:BA:1102:U:H2'	10:BA:1103:G:H5'	1.80	0.62
10:BA:1123:G:N2	10:BA:1720:G:H5'	2.14	0.62
12:BC:225:LYS:HD3	27:BR:209:PHE:CE1	2.34	0.62
14:BE:74:GLU:C	14:BE:76:LYS:H	2.06	0.62
24:BO:117:LEU:HD21	24:BO:121:GLU:OE1	1.99	0.62
29:BT:117:ILE:HG23	29:BT:130:ARG:HB3	1.80	0.62
3:A3:137:ILE:HD11	3:A3:189:ASP:OD1	1.98	0.62
9:A9:81:THR:HG21	9:A9:83:LYS:HG2	1.81	0.62
9:A9:98:LEU:HB3	9:A9:100:PHE:HE1	1.63	0.62
10:AA:81:A:O2'	25:AP:117:GLY:HA3	1.98	0.62
10:AA:215:A:N6	10:AA:811:U:H3	1.93	0.62
10:AA:527:A:H5"	13:AD:168:ARG:HH22	1.63	0.62
10:AA:599:A:C5'	10:AA:600:A:H5"	2.29	0.62
10:AA:733:G:H1	10:AA:782:A:H61	1.44	0.62
10:AA:840:A:N6	24:AO:72:LYS:HZ1	1.98	0.62
10:AA:1188:A:O5'	10:AA:1188:A:H8	1.82	0.62
10:AA:1719:A:H1'	10:AA:1747:A:C4	2.35	0.62
11:AB:4:GLN:HA	11:AB:7:GLN:HG3	1.80	0.62
15:AF:16:GLN:NE2	22:BM:144:HIS:NE2	2.46	0.62
18:AI:57:LEU:HD23	18:AI:110:GLN:HG2	1.81	0.62
24:AO:15:GLY:O	24:AO:16:SER:HB2	1.98	0.62
25:AP:3:ILE:CG2	25:AP:4:VAL:N	2.61	0.62
32:AW:36:HIS:CD2	32:AW:87:GLY:HA3	2.32	0.62
34:AY:132:LYS:NZ	34:AY:163:ARG:CB	2.62	0.62
1:B1:7:THR:HG23	1:B1:33:SER:CB	2.28	0.62
8:B8:43:VAL:HB	22:BM:25:LYS:NZ	2.14	0.62
10:BA:104:A:C2	10:BA:298:G:C2	2.87	0.62
10:BA:942:U:O2'	10:BA:943:U:C5'	2.47	0.62
10:BA:1188:A:O5'	10:BA:1188:A:C8	2.52	0.62
10:BA:1419:G:H5'	10:BA:1419:G:H8	1.62	0.62
10:BA:1504:U:O2'	10:BA:1505:C:H5'	1.99	0.62
16:BG:133:ALA:HB2	16:BG:200:ARG:HB2	1.81	0.62
17:BH:101:ASN:HB2	17:BH:129:PHE:O	1.98	0.62
31:BV:17:ILE:HD13	31:BV:58:MET:HE3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:207:PHE:HE2	32:BW:223:ARG:CZ	2.11	0.62
4:A4:95:ASP:HB2	4:A4:100:LYS:HE3	1.80	0.62
7:A7:54:PHE:CE2	7:A7:75:TYR:HB2	2.34	0.62
9:A9:97:ALA:O	9:A9:98:LEU:HD12	2.00	0.62
10:AA:72:G:C2	10:AA:75:C:N4	2.67	0.62
10:AA:291:A:H2'	10:AA:292:G:H8	1.64	0.62
10:AA:325:U:O2'	10:AA:326:U:H5'	1.99	0.62
10:AA:746:A:C5	10:AA:747:G:N7	2.67	0.62
10:AA:1266:G:O4'	11:AB:106:ASN:HB2	2.00	0.62
16:AG:163:SER:N	16:AG:166:GLU:OE1	2.28	0.62
28:AS:58:TYR:O	28:AS:62:VAL:HG23	1.99	0.62
32:AW:73:PHE:CE2	32:AW:78:VAL:HG22	2.34	0.62
10:BA:453:G:H5"	32:BW:26:ILE:HD12	1.81	0.62
10:BA:1462:U:C5	10:BA:1464:U:C4	2.82	0.62
10:BA:1475:G:P	29:BT:102:LYS:HB2	2.40	0.62
10:BA:1492:U:O2'	10:BA:1493:A:P	2.57	0.62
11:BB:174:ILE:O	11:BB:178:VAL:HG23	1.98	0.62
13:BD:110:GLN:HG3	13:BD:126:ARG:NE	2.14	0.62
16:BG:13:LEU:CD2	16:BG:104:LEU:HD21	2.30	0.62
16:BG:26:ASP:OD1	16:BG:28:CYS:HB3	1.99	0.62
16:BG:193:GLU:O	16:BG:197:LYS:HG3	1.99	0.62
19:BJ:39:VAL:HG12	19:BJ:43:LYS:HE3	1.81	0.62
21:BL:6:PRO:HG2	21:BL:15:LEU:HD21	1.81	0.62
22:BM:125:LEU:CG	22:BM:129:TRP:HE1	2.12	0.62
32:BW:11:ARG:HG2	32:BW:27:TRP:O	2.00	0.62
32:BW:126:LEU:HB3	32:BW:143:THR:HG21	1.80	0.62
8:A8:51:GLU:OE1	8:A8:51:GLU:HA	1.98	0.62
10:AA:246:U:OP1	26:AQ:33:TYR:OH	2.17	0.62
10:AA:388:A:O2'	10:AA:389:G:H5'	1.99	0.62
10:AA:603:U:H6	10:AA:603:U:OP2	1.82	0.62
10:AA:1366:G:N2	10:AA:1373:G:N2	2.46	0.62
10:AA:1425:G:O3'	28:AS:127:THR:HG21	2.00	0.62
10:AA:1721:G:H21	20:AK:151:LEU:HD11	1.63	0.62
17:AH:94:LEU:HD13	17:AH:100:GLY:HA2	1.82	0.62
26:AQ:146:ILE:CD1	26:AQ:153:GLN:HG2	2.30	0.62
32:AW:49:LYS:NZ	32:AW:58:GLY:HA2	2.13	0.62
1:B1:46:LYS:O	1:B1:46:LYS:HG3	1.97	0.62
8:B8:80:ALA:O	8:B8:84:MET:HG3	1.99	0.62
9:B9:83:LYS:HG3	9:B9:84:LYS:H	1.63	0.62
10:BA:63:U:O2'	10:BA:162:A:H1'	1.99	0.62
10:BA:527:A:H2'	10:BA:528:G:H8	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1263:G:C5'	14:BE:120:LYS:HE3	2.19	0.62
10:BA:1331:A:H2	10:BA:1334:U:H5	1.47	0.62
11:BB:4:GLN:HA	11:BB:7:GLN:HG3	1.80	0.62
17:BH:11:LEU:HD12	17:BH:74:VAL:HG22	1.81	0.62
25:BP:147:VAL:O	25:BP:148:ALA:HB2	1.99	0.62
27:BR:174:MET:CE	27:BR:178:ASN:HB2	2.29	0.62
27:BR:212:HIS:HB3	27:BR:234:ASP:OD2	1.99	0.62
32:BW:204:GLN:O	32:BW:206:SER:N	2.32	0.62
34:BY:66:GLY:O	34:BY:68:MET:N	2.31	0.62
35:BZ:54:VAL:HG13	35:BZ:59:GLN:O	1.99	0.62
2:A2:55:ARG:HD3	2:A2:55:ARG:C	2.24	0.62
6:A6:57:CYS:SG	6:A6:58:SER:N	2.72	0.62
10:AA:466:A:H62	13:AD:40:ARG:HH22	1.48	0.62
10:AA:761:U:C2	25:AP:7:THR:HG23	2.33	0.62
10:AA:781:C:H2'	10:AA:781:C:O2	1.99	0.62
10:AA:804:A:H2'	10:AA:805:G:H8	1.63	0.62
10:AA:1215:G:N3	10:AA:1215:G:H2'	2.13	0.62
16:AG:177:LYS:O	16:AG:178:ASN:HB2	1.98	0.62
20:AK:38:ASN:O	20:AK:68:GLU:HG3	1.99	0.62
22:AM:125:LEU:HD23	22:AM:129:TRP:HE1	1.65	0.62
28:AS:31:GLU:HG3	28:AS:32:LYS:H	1.64	0.62
30:AU:94:ILE:CG2	30:AU:95:LYS:N	2.62	0.62
1:B1:62:ARG:O	1:B1:63:GLU:HB3	1.98	0.62
2:B2:39:THR:HG21	2:B2:48:LYS:HA	1.81	0.62
6:B6:6:LEU:HD13	17:BH:51:GLU:OE1	1.99	0.62
8:B8:70:VAL:HG22	8:B8:75:VAL:O	1.99	0.62
10:BA:72:G:C2	10:BA:75:C:N4	2.67	0.62
10:BA:553:A:C6	12:BC:181:LYS:HB3	2.34	0.62
10:BA:781:C:O2	10:BA:781:C:H2'	1.99	0.62
10:BA:883:A:H5'	20:BK:66:ARG:HB3	1.81	0.62
10:BA:1140:U:H3'	10:BA:1141:G:H8	1.63	0.62
10:BA:1299:C:H4'	12:BC:162:CYS:SG	2.39	0.62
10:BA:1340:G:C3'	10:BA:1341:U:H5"	2.29	0.62
10:BA:1556:G:C5	18:BI:124:ARG:NH1	2.67	0.62
10:BA:1562:G:H5'	29:BT:94:ASN:O	2.00	0.62
10:BA:1582:G:O2'	10:BA:1583:A:H8	1.83	0.62
11:BB:64:GLN:HG2	14:BE:245:SER:CB	2.29	0.62
11:BB:116:ARG:HG3	14:BE:242:GLU:OE2	2.00	0.62
11:BB:194:MET:HE1	31:BV:89:SER:H	1.65	0.62
12:BC:227:ILE:HG12	27:BR:209:PHE:CE1	2.35	0.62
14:BE:180:VAL:HG23	14:BE:197:ILE:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BJ:72:GLU:OE1	19:BJ:73:GLY:N	2.32	0.62
21:BL:60:SER:OG	21:BL:64:ASN:HB2	1.99	0.62
24:BO:31:THR:O	24:BO:32:PRO:C	2.41	0.62
25:BP:2:THR:CG2	25:BP:3:ILE:H	1.96	0.62
29:BT:101:GLY:O	29:BT:105:ARG:HG2	1.99	0.62
32:BW:213:LYS:HG2	32:BW:214:ASP:N	2.15	0.62
33:BX:44:ARG:HG3	33:BX:45:TYR:N	2.14	0.62
34:BY:23:LYS:HD3	34:BY:41:LEU:CD2	2.24	0.62
4:A4:34:PHE:HD2	4:A4:45:PHE:O	1.83	0.62
6:A6:38:CYS:O	6:A6:39:GLN:HB2	1.99	0.62
10:AA:43:U:H3'	10:AA:44:U:H5'	1.82	0.62
10:AA:141:A:N6	10:AA:142:A:N1	2.47	0.62
10:AA:191:A:H2'	10:AA:192:C:H6	1.62	0.62
10:AA:728:U:C2'	10:AA:729:U:H5'	2.29	0.62
11:AB:51:GLN:HE22	35:AZ:95:ILE:HB	1.64	0.62
17:AH:2:VAL:HG12	17:AH:3:LYS:N	2.10	0.62
30:AU:14:LYS:O	30:AU:18:SER:HB3	1.99	0.62
1:B1:12:MET:HB2	1:B1:30:VAL:HG23	1.81	0.62
2:B2:29:LYS:HZ3	10:BA:391:A:N6	1.98	0.62
2:B2:128:ASP:O	2:B2:129:LEU:HB2	2.00	0.62
3:B3:82:ILE:HG22	3:B3:86:LYS:HE3	1.82	0.62
10:BA:191:A:H2'	10:BA:192:C:H6	1.65	0.62
10:BA:1054:U:H4'	10:BA:1055:G:OP1	1.99	0.62
10:BA:1259:A:N6	10:BA:1301:A:H5'	2.14	0.62
10:BA:1486:U:H5'	10:BA:1487:A:C2	2.35	0.62
10:BA:1731:G:C3'	10:BA:1732:U:H5"	2.29	0.62
16:BG:22:VAL:HG22	16:BG:105:GLU:HB2	1.81	0.62
17:BH:77:PRO:HB2	21:BL:9:ILE:HG13	1.82	0.62
17:BH:125:ILE:HG22	17:BH:126:LEU:N	2.13	0.62
25:BP:2:THR:HG22	25:BP:3:ILE:N	2.01	0.62
25:BP:19:ARG:NE	25:BP:73:VAL:HG11	2.14	0.62
28:BS:24:LEU:HG	28:BS:37:GLU:HB3	1.81	0.62
28:BS:86:ARG:NH1	28:BS:122:ALA:HB1	2.15	0.62
7:A7:69:ASN:ND2	7:A7:71:GLU:HB2	2.14	0.62
8:A8:95:LYS:NZ	8:A8:98:LYS:HD2	2.15	0.62
9:A9:146:UNK:CA	9:A9:149:UNK:HG3	2.30	0.62
10:AA:77:G:O2'	10:AA:78:C:H5'	1.99	0.62
10:AA:132:U:H1'	34:AY:149:LYS:NZ	2.15	0.62
10:AA:236:U:C2'	10:AA:237:U:H5"	2.30	0.62
10:AA:859:A:H8	10:AA:859:A:C5'	2.12	0.62
10:AA:1054:U:H4'	10:AA:1055:G:OP1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1469:U:H4'	29:AT:126:LYS:HB3	1.80	0.62
11:AB:172:TRP:HE1	11:AB:191:TRP:CD1	2.18	0.62
15:AF:65:ASP:O	15:AF:67:GLY:N	2.32	0.62
15:AF:78:ARG:NH1	15:AF:100:GLY:HA3	2.15	0.62
16:AG:106:VAL:HA	16:AG:176:GLU:OE1	1.99	0.62
17:AH:11:LEU:HD12	17:AH:74:VAL:HG22	1.80	0.62
27:AR:212:HIS:HB3	27:AR:234:ASP:OD2	2.00	0.62
28:AS:66:ARG:NH1	28:AS:93:GLU:HB3	2.15	0.62
28:AS:74:ALA:C	28:AS:76:GLU:H	2.07	0.62
32:AW:207:PHE:HE2	32:AW:223:ARG:CZ	2.13	0.62
5:B5:77:ILE:HG12	10:BA:1746:G:O6	1.98	0.62
10:BA:1:A:H2'	14:BE:180:VAL:CG1	2.29	0.62
10:BA:77:G:O2'	10:BA:78:C:H5'	1.99	0.62
10:BA:145:G:N2	10:BA:157:G:N2	2.40	0.62
10:BA:371:U:O2'	10:BA:372:C:OP1	2.17	0.62
10:BA:728:U:O2'	10:BA:729:U:H5'	2.00	0.62
10:BA:1603:A:H62	10:BA:1717:C:C4'	2.11	0.62
14:BE:154:THR:CG2	14:BE:155:ILE:N	2.43	0.62
15:BF:32:PHE:HD2	15:BF:72:LYS:HE2	1.60	0.62
17:BH:94:LEU:HD11	17:BH:102:VAL:HG23	1.82	0.62
22:BM:9:SER:C	22:BM:11:PHE:H	2.06	0.62
27:BR:111:TYR:CD1	27:BR:112:LYS:HG2	2.35	0.62
27:BR:211:ALA:C	27:BR:212:HIS:HD2	2.08	0.62
32:BW:89:MET:HE2	32:BW:89:MET:HA	1.80	0.62
32:BW:163:LYS:HD2	32:BW:237:TRP:CE3	2.34	0.62
34:BY:70:ARG:HH21	34:BY:104:PRO:CD	2.12	0.62
1:A1:7:THR:HG22	1:A1:31:LEU:HD22	1.82	0.62
2:A2:117:PHE:CE2	2:A2:190:ILE:HD11	2.34	0.62
3:A3:178:THR:CG2	3:A3:180:ARG:HG3	2.30	0.62
6:A6:34:LYS:HG2	6:A6:41:ILE:CG1	2.26	0.62
7:A7:40:LEU:HG	10:AA:1189:A:C2	2.35	0.62
9:A9:159:UNK:C	9:A9:162:UNK:HG3	2.30	0.62
10:AA:865:A:H2'	10:AA:866:U:C6	2.35	0.62
14:AE:154:THR:HG23	14:AE:197:ILE:HG22	1.81	0.62
31:AV:72:LYS:HA	31:AV:76:GLU:HB2	1.81	0.62
4:B4:34:PHE:HD2	4:B4:45:PHE:O	1.82	0.62
6:B6:38:CYS:O	6:B6:39:GLN:HB2	2.00	0.62
10:BA:139:A:O2'	10:BA:140:U:H5'	1.99	0.62
10:BA:538:A:O2'	10:BA:539:U:O4'	2.17	0.62
10:BA:630:A:H2'	10:BA:631:C:C5'	2.28	0.62
10:BA:746:A:C5	10:BA:747:G:N7	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:757:C:C5	10:BA:770:G:C2	2.88	0.62
10:BA:955:A:C2	10:BA:956:A:C4	2.88	0.62
10:BA:1201:G:H1	30:BU:28:GLY:HA3	1.65	0.62
10:BA:1419:G:H2'	10:BA:1420:U:O4'	2.00	0.62
10:BA:1753:A:OP1	10:BA:1753:A:O4'	2.18	0.62
11:BB:96:SER:CB	11:BB:111:LYS:HZ3	2.13	0.62
16:BG:21:GLU:HG2	16:BG:102:ASN:HB2	1.81	0.62
17:BH:76:SER:CB	17:BH:77:PRO:HD3	2.28	0.62
28:BS:58:TYR:O	28:BS:62:VAL:HG23	1.99	0.62
29:BT:124:ALA:HA	29:BT:127:LYS:HE2	1.81	0.62
29:BT:143:ILE:O	29:BT:147:ILE:HG13	2.00	0.62
34:BY:77:LEU:O	34:BY:92:ARG:HA	2.00	0.62
2:A2:110:VAL:HG12	2:A2:111:GLU:N	2.11	0.62
3:A3:15:ILE:HD12	3:A3:15:ILE:H	1.63	0.62
8:A8:43:VAL:HA	8:A8:79:LEU:HD12	1.81	0.62
8:A8:60:VAL:HG13	8:A8:72:LYS:CG	2.30	0.62
10:AA:224:G:C2'	10:AA:225:C:H5'	2.29	0.62
10:AA:341:G:H5"	10:AA:342:U:H3'	1.81	0.62
10:AA:538:A:O2'	10:AA:539:U:O4'	2.17	0.62
10:AA:735:G:H22	10:AA:780:G:H1	1.47	0.62
10:AA:1175:A:N1	10:AA:1527:A:C5	2.68	0.62
10:AA:1252:C:H2'	10:AA:1253:G:H8	1.65	0.62
13:AD:17:ARG:HB3	13:AD:20:GLU:HG3	1.80	0.62
13:AD:65:LYS:HA	13:AD:70:LEU:HD21	1.81	0.62
30:AU:4:GLN:O	30:AU:5:ASN:C	2.43	0.62
32:AW:125:LEU:HD12	32:AW:238:ILE:HD11	1.80	0.62
32:AW:230:LEU:CD1	32:AW:238:ILE:HD12	2.30	0.62
2:B2:110:VAL:HG12	2:B2:111:GLU:N	2.12	0.62
10:BA:328:G:H2'	26:BQ:132:LYS:CE	2.28	0.62
10:BA:478:G:H1	10:BA:493:U:H3	1.48	0.62
10:BA:1468:G:O2'	29:BT:126:LYS:HE2	1.99	0.62
13:BD:118:LEU:HD11	13:BD:158:PHE:CZ	2.34	0.62
14:BE:231:TRP:HZ3	35:BZ:8:GLN:CB	2.13	0.62
22:BM:82:PRO:HD3	29:BT:40:TRP:CE2	2.34	0.62
22:BM:113:LEU:N	22:BM:113:LEU:HD23	2.14	0.62
24:BO:13:ILE:HG22	24:BO:14:SER:O	1.99	0.62
25:BP:3:ILE:CG2	25:BP:4:VAL:N	2.63	0.62
27:BR:127:SER:HA	27:BR:170:TYR:CD2	2.35	0.62
27:BR:285:THR:HG22	27:BR:286:GLN:N	2.13	0.62
32:BW:254:ARG:HH11	32:BW:254:ARG:HB3	1.63	0.62
4:A4:112:ARG:O	4:A4:115:SER:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:123:LEU:HD13	4:A4:145:PHE:CZ	2.34	0.62
7:A7:9:LYS:O	7:A7:13:TYR:HD1	1.83	0.62
10:AA:89:A:C5	10:AA:390:A:C2	2.88	0.62
10:AA:559:C:H2'	10:AA:559:C:O2	2.00	0.62
10:AA:758:A:H2'	10:AA:759:G:C8	2.32	0.62
10:AA:761:U:H4'	10:AA:762:U:O5'	2.00	0.62
10:AA:937:U:OP2	24:AO:16:SER:HA	1.99	0.62
10:AA:1110:A:O2'	10:AA:1111:A:O4'	2.18	0.62
10:AA:1171:G:H1'	19:AJ:66:ARG:CZ	2.30	0.62
10:AA:1671:G:H2'	10:AA:1672:G:H8	1.65	0.62
11:AB:139:PRO:HB3	35:AZ:47:VAL:HG21	1.81	0.62
14:AE:157:GLN:HA	17:AH:96:SER:OG	2.00	0.62
14:AE:159:ILE:CD1	14:AE:222:THR:HA	2.29	0.62
14:AE:182:ALA:HB1	14:AE:183:PRO:HD2	1.80	0.62
20:AK:21:VAL:CG1	20:AK:22:GLY:H	2.07	0.62
23:AN:6:TRP:CE3	23:AN:7:ARG:HG2	2.35	0.62
29:AT:143:ILE:O	29:AT:147:ILE:HG13	2.00	0.62
35:AZ:53:GLU:OE1	35:AZ:63:SER:HB2	1.99	0.62
1:B1:36:GLU:O	1:B1:37:GLU:CB	2.45	0.62
4:B4:95:ASP:HB2	4:B4:100:LYS:HE3	1.80	0.62
5:B5:10:ARG:HB2	5:B5:33:ASP:OD2	1.99	0.62
6:B6:62:CYS:HB3	6:B6:69:VAL:HG12	1.80	0.62
7:B7:83:SER:HB3	30:BU:111:GLU:OE2	2.00	0.62
9:B9:146:UNK:CA	9:B9:149:UNK:HG3	2.30	0.62
10:BA:83:C:C3'	10:BA:84:U:H5"	2.30	0.62
10:BA:796:U:C2'	10:BA:797:A:H5'	2.23	0.62
10:BA:1332:A:H2'	10:BA:1333:A:N9	2.14	0.62
10:BA:1591:C:H2'	10:BA:1591:C:O2	2.00	0.62
10:BA:1693:A:H2'	10:BA:1694:U:C6	2.34	0.62
11:BB:186:SER:OG	11:BB:189:GLU:HB3	2.00	0.62
15:BF:17:THR:O	15:BF:95:ASN:HB3	2.00	0.62
17:BH:130:TYR:HD1	17:BH:130:TYR:O	1.82	0.62
20:BK:36:THR:HG22	20:BK:37:TRP:H	1.64	0.62
30:BU:106:ARG:C	30:BU:107:LYS:HG3	2.25	0.62
32:BW:36:HIS:CD2	32:BW:87:GLY:HA3	2.35	0.62
10:AA:2:A:O2'	10:AA:3:C:OP1	2.18	0.61
10:AA:145:G:N2	10:AA:157:G:N2	2.37	0.61
10:AA:538:A:C2	10:AA:588:A:C4	2.88	0.61
10:AA:765:A:O2'	25:AP:12:VAL:CG2	2.47	0.61
10:AA:1133:C:H1'	10:AA:1591:C:H42	1.64	0.61
10:AA:1300:G:H5'	12:AC:162:CYS:HB2	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1443:A:H5'	10:AA:1444:U:OP1	1.99	0.61
12:AC:108:MET:HE1	12:AC:122:ALA:CA	2.28	0.61
12:AC:175:VAL:HG22	12:AC:188:LYS:HA	1.81	0.61
14:AE:154:THR:HG23	14:AE:197:ILE:CG2	2.30	0.61
15:AF:48:MET:HE2	15:AF:48:MET:HA	1.82	0.61
19:AJ:50:VAL:HG22	19:AJ:91:LEU:HD23	1.81	0.61
20:AK:101:GLY:O	20:AK:102:GLY:C	2.43	0.61
25:AP:140:SER:O	25:AP:143:LEU:HB2	2.00	0.61
28:AS:124:PHE:N	28:AS:124:PHE:CD1	2.68	0.61
4:B4:20:LYS:O	4:B4:20:LYS:HG3	1.98	0.61
10:BA:164:U:OP2	10:BA:264:U:H4'	1.99	0.61
10:BA:236:U:C2'	10:BA:237:U:H5"	2.30	0.61
10:BA:748:U:O2'	10:BA:751:U:OP1	2.15	0.61
10:BA:766:G:O6	25:BP:9:LYS:HA	2.00	0.61
10:BA:859:A:C8	10:BA:859:A:H5'	2.35	0.61
10:BA:948:A:H2'	10:BA:949:A:C5'	2.30	0.61
10:BA:1133:C:H1'	10:BA:1591:C:H42	1.65	0.61
12:BC:170:TYR:CD2	12:BC:205:VAL:HG21	2.34	0.61
16:BG:99:THR:HG22	16:BG:99:THR:O	1.98	0.61
20:BK:54:VAL:CG1	20:BK:81:VAL:HG13	2.25	0.61
20:BK:145:GLY:O	20:BK:147:ARG:N	2.32	0.61
22:BM:26:ARG:CG	22:BM:27:ILE:H	2.03	0.61
26:BQ:23:LEU:C	26:BQ:25:LYS:H	2.07	0.61
26:BQ:35:LYS:HG2	26:BQ:36:ASN:N	2.14	0.61
27:BR:265:PRO:O	27:BR:266:LYS:HG3	1.99	0.61
32:BW:204:GLN:C	32:BW:206:SER:N	2.57	0.61
4:A4:24:ASP:OD1	4:A4:25:PRO:HD2	2.00	0.61
4:A4:34:PHE:CD2	4:A4:45:PHE:HB3	2.35	0.61
9:A9:126:ALA:N	9:A9:133:TYR:O	2.32	0.61
10:AA:75:C:H1'	34:AY:178:LYS:CG	2.29	0.61
10:AA:311:U:H4'	10:AA:312:C:O4'	1.99	0.61
10:AA:466:A:OP1	13:AD:145:SER:HB2	2.00	0.61
10:AA:525:U:H5"	25:AP:63:GLY:CA	2.30	0.61
10:AA:728:U:O2'	10:AA:729:U:H5'	2.01	0.61
10:AA:948:A:H2'	10:AA:949:A:C5'	2.30	0.61
10:AA:1110:A:O2'	10:AA:1111:A:OP2	2.13	0.61
26:AQ:117:LYS:HZ1	26:AQ:144:ASN:C	2.08	0.61
27:AR:314:SER:O	27:AR:326:ALA:HA	2.00	0.61
29:AT:116:ILE:HA	29:AT:136:GLY:HA3	1.83	0.61
34:AY:1:MET:HE1	34:AY:109:LEU:HD12	1.82	0.61
1:B1:7:THR:HG22	1:B1:31:LEU:HD22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:147:VAL:O	2:B2:151:VAL:HG23	1.99	0.61
6:B6:6:LEU:CD2	17:BH:62:VAL:HG21	2.26	0.61
8:B8:95:LYS:NZ	8:B8:98:LYS:HD2	2.15	0.61
10:BA:1717:C:H2'	10:BA:1718:A:H5"	1.81	0.61
11:BB:51:GLN:NE2	35:BZ:95:ILE:H	1.97	0.61
14:BE:91:THR:O	14:BE:92:GLN:C	2.43	0.61
14:BE:228:PRO:HB3	17:BH:68:ARG:NH2	2.12	0.61
15:BF:51:TRP:HE1	15:BF:84:PHE:HE2	1.40	0.61
16:BG:40:SER:O	16:BG:42:VAL:HG23	2.01	0.61
27:BR:190:VAL:CG2	27:BR:219:LEU:HD13	2.30	0.61
30:BU:58:LEU:O	30:BU:62:LEU:HG	2.00	0.61
31:BV:17:ILE:CD1	31:BV:57:LEU:HB2	2.30	0.61
8:A8:66:VAL:O	8:A8:70:VAL:HG23	2.00	0.61
9:A9:98:LEU:HB3	9:A9:100:PHE:CE1	2.35	0.61
10:AA:59:C:H5'	10:AA:60:C:OP2	2.00	0.61
10:AA:865:A:H2'	10:AA:866:U:H6	1.65	0.61
10:AA:1072:G:N2	17:AH:79:TYR:OH	2.27	0.61
11:AB:2:ALA:HB1	35:AZ:97:GLU:HB2	1.81	0.61
14:AE:220:ALA:C	14:AE:222:THR:H	2.08	0.61
16:AG:61:CYS:SG	16:AG:66:ARG:HG2	2.41	0.61
20:AK:145:GLY:O	20:AK:147:ARG:N	2.33	0.61
35:AZ:57:ASN:HB2	35:AZ:59:GLN:OE1	1.99	0.61
3:B3:178:THR:HG21	3:B3:180:ARG:CD	2.29	0.61
10:BA:141:A:N6	10:BA:142:A:N1	2.48	0.61
10:BA:163:A:OP1	34:BY:137:ARG:NE	2.32	0.61
10:BA:454:C:C2'	10:BA:455:C:H5"	2.29	0.61
10:BA:516:G:O2'	10:BA:517:U:H5'	2.01	0.61
10:BA:840:A:O2'	10:BA:841:A:P	2.57	0.61
10:BA:1027:U:H2'	10:BA:1028:G:H5'	1.81	0.61
10:BA:1191:A:C6	10:BA:1237:G:H1'	2.36	0.61
21:BL:78:ASN:HD21	21:BL:80:LYS:HG3	1.64	0.61
26:BQ:122:LEU:HD23	26:BQ:123:VAL:H	1.65	0.61
27:BR:94:SER:CB	27:BR:124:VAL:HG23	2.27	0.61
30:BU:73:VAL:CG1	30:BU:74:PRO:HD2	2.31	0.61
31:BV:72:LYS:HA	31:BV:76:GLU:HB2	1.82	0.61
32:BW:124:LYS:HZ1	32:BW:145:ASP:CG	2.07	0.61
33:BX:31:PRO:HG3	33:BX:39:ILE:HD11	1.83	0.61
34:BY:1:MET:HE1	34:BY:109:LEU:HD12	1.83	0.61
35:BZ:34:TRP:HD1	35:BZ:82:ALA:HB1	1.65	0.61
35:BZ:37:LYS:HG2	35:BZ:38:LEU:H	1.65	0.61
35:BZ:91:GLY:O	35:BZ:92:LEU:HG	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:169:SER:O	2:A2:170:GLN:HB2	2.00	0.61
4:A4:116:MET:CE	4:A4:215:ASN:HB3	2.31	0.61
7:A7:89:PRO:HG2	7:A7:92:PHE:HB2	1.82	0.61
10:AA:85:G:H5'	10:AA:85:G:C8	2.27	0.61
10:AA:109:U:H5'	26:AQ:66:ARG:HD2	1.82	0.61
10:AA:148:C:C5'	34:AY:108:VAL:HG21	2.31	0.61
10:AA:377:G:H21	10:AA:417:A:H8	1.47	0.61
10:AA:574:A:N6	10:AA:577:C:C2	2.69	0.61
10:AA:586:A:C2'	10:AA:587:U:H5'	2.30	0.61
10:AA:904:A:H2'	10:AA:905:C:H6	1.66	0.61
10:AA:1200:G:H4'	10:AA:1201:G:OP2	2.00	0.61
10:AA:1253:G:OP1	19:AJ:76:THR:HG21	2.00	0.61
10:AA:1325:G:H8	10:AA:1325:G:O5'	1.83	0.61
10:AA:1419:G:H5'	10:AA:1419:G:H8	1.64	0.61
10:AA:1582:G:O2'	10:AA:1583:A:H8	1.83	0.61
10:AA:1591:C:H2'	10:AA:1591:C:O2	1.99	0.61
11:AB:5:ARG:HH11	11:AB:5:ARG:CA	2.06	0.61
15:AF:49:LYS:HE2	15:AF:53:LYS:HZ3	1.63	0.61
16:AG:169:ALA:O	16:AG:173:ILE:HG13	2.00	0.61
22:AM:101:ALA:HB3	22:AM:104:THR:OG1	2.00	0.61
26:AQ:70:ILE:HD11	26:AQ:136:PHE:CZ	2.35	0.61
27:AR:99:THR:C	27:AR:100:LEU:HD12	2.25	0.61
27:AR:317:TRP:CZ3	27:AR:324:LEU:HD22	2.35	0.61
2:B2:84:THR:HG22	2:B2:85:LYS:N	2.14	0.61
2:B2:155:LYS:HD3	2:B2:157:GLN:OE1	2.00	0.61
3:B3:117:ARG:NH1	10:BA:836:G:OP1	2.29	0.61
7:B7:38:PRO:HB2	7:B7:41:HIS:HD2	1.63	0.61
10:BA:300:C:H5'	10:BA:300:C:H6	1.65	0.61
10:BA:436:C:H2'	38:BA:2210:HOH:O	1.99	0.61
10:BA:506:U:C5'	13:BD:131:GLN:HB3	2.30	0.61
10:BA:760:G:N2	10:BA:766:G:H1	1.94	0.61
10:BA:849:A:C4	10:BA:935:G:N2	2.68	0.61
10:BA:1384:U:H4'	10:BA:1385:U:OP2	1.99	0.61
11:BB:156:VAL:CG2	35:BZ:80:HIS:HB2	2.30	0.61
13:BD:127:VAL:O	13:BD:130:ARG:HB2	2.00	0.61
17:BH:94:LEU:HD11	17:BH:102:VAL:CG2	2.31	0.61
25:BP:9:LYS:H	25:BP:22:SER:HB2	1.64	0.61
26:BQ:71:LYS:HB3	26:BQ:157:PHE:CE2	2.35	0.61
32:BW:106:ASP:HB2	32:BW:110:ARG:H	1.65	0.61
2:A2:52:ARG:O	2:A2:52:ARG:HG2	2.00	0.61
6:A6:62:CYS:HB3	6:A6:69:VAL:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:83:SER:HB3	30:AU:111:GLU:OE2	2.01	0.61
8:A8:75:VAL:HG11	8:A8:83:LEU:HD11	1.82	0.61
10:AA:164:U:O2'	10:AA:165:A:OP1	2.17	0.61
10:AA:628:G:O2'	10:AA:629:A:H5'	2.01	0.61
10:AA:1652:A:N3	34:AY:66:GLY:CA	2.64	0.61
12:AC:165:GLN:N	12:AC:166:PRO:CD	2.61	0.61
22:AM:81:ILE:HA	29:AT:40:TRP:CZ2	2.34	0.61
22:AM:125:LEU:HG	22:AM:129:TRP:HE1	1.66	0.61
32:AW:42:LEU:HD12	32:AW:47:LEU:HB2	1.82	0.61
32:AW:254:ARG:HH11	32:AW:254:ARG:HB3	1.65	0.61
34:AY:1:MET:HE2	34:AY:3:PHE:CZ	2.34	0.61
1:B1:10:ARG:HB2	1:B1:53:ASP:O	2.01	0.61
4:B4:38:ILE:HG22	4:B4:39:PRO:CD	2.30	0.61
5:B5:58:ALA:HB2	20:BK:125:LYS:HB3	1.83	0.61
10:BA:85:G:H5'	10:BA:85:G:C8	2.29	0.61
10:BA:147:G:C5'	34:BY:15:CYS:SG	2.89	0.61
10:BA:291:A:H2'	10:BA:292:G:H8	1.64	0.61
10:BA:538:A:C2	10:BA:588:A:C4	2.87	0.61
12:BC:145:LEU:HD13	12:BC:153:MET:CE	2.30	0.61
13:BD:53:ARG:HG3	13:BD:97:LEU:HD22	1.81	0.61
14:BE:192:ALA:HB3	14:BE:194:VAL:HG23	1.82	0.61
15:BF:26:ARG:HH21	15:BF:72:LYS:HZ3	1.46	0.61
16:BG:16:LYS:O	16:BG:17:TRP:CG	2.54	0.61
27:BR:277:GLY:HA3	27:BR:294:ILE:HA	1.82	0.61
31:BV:112:GLN:HG3	31:BV:113:ASN:N	2.14	0.61
1:A1:36:GLU:O	1:A1:37:GLU:CB	2.45	0.61
2:A2:194:LYS:HG2	26:AQ:4:GLN:NE2	2.14	0.61
3:A3:72:VAL:O	3:A3:75:SER:OG	2.18	0.61
8:A8:83:LEU:O	8:A8:87:MET:HG3	2.01	0.61
10:AA:1007:U:C3'	10:AA:1008:A:H5'	2.26	0.61
10:AA:1444:U:OP2	16:AG:163:SER:HA	2.00	0.61
10:AA:1572:A:H2'	10:AA:1573:G:H5"	1.82	0.61
11:AB:12:ARG:HB2	11:AB:169:MET:SD	2.41	0.61
14:AE:141:ARG:HB3	14:AE:222:THR:CG2	2.31	0.61
19:AJ:39:VAL:HG12	19:AJ:43:LYS:HE3	1.82	0.61
19:AJ:64:THR:HG22	19:AJ:77:TRP:HE3	1.65	0.61
27:AR:146:ASN:C	27:AR:148:LEU:N	2.58	0.61
31:AV:5:ARG:CB	31:AV:10:LYS:HE2	2.28	0.61
34:AY:228:HIS:O	34:AY:232:ALA:HB2	2.01	0.61
1:B1:45:VAL:HG12	1:B1:46:LYS:N	2.15	0.61
4:B4:166:GLN:O	4:B4:169:ALA:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B8:102:GLN:OE1	16:BG:165:ALA:HB3	1.99	0.61
10:BA:89:A:O2'	32:BW:4:GLY:HA3	2.01	0.61
10:BA:525:U:H5"	25:BP:63:GLY:H	1.66	0.61
10:BA:1229:U:O2	10:BA:1229:U:H2'	2.01	0.61
10:BA:1252:C:H2'	10:BA:1253:G:H8	1.64	0.61
11:BB:2:ALA:HB3	11:BB:6:LYS:HD3	1.82	0.61
17:BH:20:MET:HE2	17:BH:20:MET:HA	1.81	0.61
19:BJ:50:VAL:HG22	19:BJ:91:LEU:HD23	1.82	0.61
21:BL:34:LEU:O	21:BL:35:GLY:C	2.44	0.61
21:BL:62:GLN:CB	21:BL:63:PRO:CD	2.78	0.61
22:BM:88:ARG:HB2	22:BM:100:MET:HE3	1.81	0.61
22:BM:146:VAL:HG12	22:BM:147:VAL:N	2.05	0.61
27:BR:314:SER:O	27:BR:315:LEU:HD23	2.01	0.61
28:BS:78:PRO:HB2	28:BS:98:ILE:HG12	1.82	0.61
35:BZ:32:CYS:HB2	35:BZ:70:CYS:HB3	1.83	0.61
9:A9:98:LEU:HD23	9:A9:100:PHE:HE1	1.65	0.61
9:A9:154:UNK:HA	9:A9:157:UNK:HG3	1.81	0.61
10:AA:104:A:H2'	10:AA:105:G:C8	2.35	0.61
10:AA:231:U:H2'	10:AA:232:G:C5'	2.29	0.61
10:AA:618:G:C2'	10:AA:619:C:H5'	2.31	0.61
11:AB:193:VAL:CG1	11:AB:197:LEU:HD12	2.30	0.61
14:AE:77:LEU:HD11	14:AE:105:VAL:CG1	2.30	0.61
15:AF:42:PHE:HA	8:B8:32:LYS:H	1.66	0.61
16:AG:37:THR:HG22	16:AG:38:THR:N	2.15	0.61
34:AY:102:VAL:HG11	34:AY:109:LEU:HD11	1.83	0.61
1:B1:63:GLU:HG2	1:B1:63:GLU:O	2.00	0.61
2:B2:35:MET:HG2	2:B2:103:THR:HG23	1.83	0.61
4:B4:36:ALA:HB2	4:B4:101:THR:HB	1.82	0.61
4:B4:123:LEU:HD13	4:B4:145:PHE:CZ	2.35	0.61
7:B7:69:ASN:ND2	7:B7:71:GLU:HB2	2.15	0.61
8:B8:83:LEU:O	8:B8:87:MET:HG3	2.01	0.61
10:BA:231:U:H2'	10:BA:232:G:C5'	2.30	0.61
10:BA:392:A:N7	10:BA:395:G:C5	2.69	0.61
10:BA:630:A:C2'	10:BA:631:C:H5"	2.31	0.61
10:BA:706:U:H2'	10:BA:707:U:C5	2.35	0.61
10:BA:1007:U:C3'	10:BA:1008:A:H5'	2.27	0.61
14:BE:145:TRP:HZ3	14:BE:174:PRO:CG	2.13	0.61
16:BG:37:THR:HG22	16:BG:38:THR:N	2.15	0.61
16:BG:71:LEU:HD12	16:BG:71:LEU:O	2.01	0.61
17:BH:2:VAL:HG12	17:BH:3:LYS:N	2.12	0.61
18:BI:138:SER:C	18:BI:139:LYS:HG3	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:BJ:64:THR:HG22	19:BJ:77:TRP:HE3	1.65	0.61
21:BL:101:VAL:HG13	21:BL:123:VAL:HG13	1.81	0.61
24:BO:96:LYS:O	24:BO:100:ILE:HD13	2.01	0.61
27:BR:220:SER:HB2	27:BR:261:ILE:O	2.00	0.61
32:BW:89:MET:HA	32:BW:89:MET:CE	2.31	0.61
34:BY:77:LEU:HD12	34:BY:84:PHE:HB2	1.83	0.61
34:BY:139:ASN:O	34:BY:143:LYS:HG3	2.00	0.61
35:BZ:57:ASN:HB2	35:BZ:59:GLN:OE1	2.00	0.61
3:A3:192:PHE:HE1	6:A6:14:LYS:HA	1.65	0.61
4:A4:90:VAL:C	4:A4:101:THR:HG23	2.25	0.61
5:A5:38:ARG:NH2	5:A5:86:VAL:HG23	2.14	0.61
5:A5:56:LYS:HG3	20:AK:120:ALA:O	2.01	0.61
10:AA:346:G:H2'	10:AA:347:G:H8	1.65	0.61
10:AA:371:U:H2'	10:AA:371:U:O2	1.98	0.61
10:AA:570:G:H4'	10:AA:574:A:C2	2.35	0.61
10:AA:865:A:O2'	10:AA:866:U:H5'	2.01	0.61
10:AA:955:A:C2	10:AA:956:A:C4	2.89	0.61
10:AA:1188:A:H5"	10:AA:1189:A:OP1	2.00	0.61
12:AC:45:THR:C	12:AC:47:THR:H	2.09	0.61
12:AC:61:VAL:O	12:AC:68:LYS:HB3	1.99	0.61
12:AC:126:ILE:HG21	12:AC:157:GLN:HG3	1.83	0.61
12:AC:214:ILE:O	31:AV:39:ALA:HB1	2.01	0.61
13:AD:94:ASP:HB3	14:AE:149:ILE:CD1	2.24	0.61
14:AE:247:PHE:C	14:AE:249:HIS:H	2.09	0.61
16:AG:72:MET:O	16:AG:72:MET:HG3	1.99	0.61
21:AL:78:ASN:HD21	21:AL:80:LYS:HG3	1.64	0.61
21:AL:101:VAL:HA	21:AL:125:CYS:O	2.00	0.61
22:AM:9:SER:C	22:AM:11:PHE:H	2.08	0.61
25:AP:15:LEU:CD2	32:AW:71:ASN:HB3	2.31	0.61
27:AR:75:HIS:NE2	27:AR:101:ARG:HG3	2.16	0.61
27:AR:114:PHE:HB3	27:AR:145:TRP:CZ3	2.36	0.61
2:B2:52:ARG:HG2	2:B2:52:ARG:O	2.00	0.61
2:B2:192:GLU:HB2	26:BQ:19:SER:HB3	1.83	0.61
3:B3:46:LYS:O	3:B3:61:VAL:HG13	2.01	0.61
3:B3:95:THR:CG2	3:B3:96:ALA:N	2.64	0.61
7:B7:54:PHE:CE2	7:B7:75:TYR:HB2	2.35	0.61
10:BA:147:G:H5'	34:BY:15:CYS:SG	2.41	0.61
10:BA:160:C:O2'	34:BY:133:LEU:HB2	2.01	0.61
10:BA:501:U:H5'	10:BA:501:U:C6	2.35	0.61
10:BA:830:G:H2'	10:BA:831:G:H8	1.66	0.61
10:BA:880:G:O6	20:BK:68:GLU:CD	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:894:U:H3	20:BK:55:ARG:NH1	1.99	0.61
10:BA:1171:G:C6	23:BN:29:LEU:HD22	2.36	0.61
10:BA:1200:G:H4'	10:BA:1201:G:OP2	2.01	0.61
10:BA:1671:G:H2'	10:BA:1672:G:H8	1.65	0.61
11:BB:96:SER:CB	11:BB:111:LYS:NZ	2.63	0.61
12:BC:108:MET:O	12:BC:112:LEU:HG	2.00	0.61
12:BC:215:ILE:HA	31:BV:39:ALA:CB	2.30	0.61
14:BE:163:SER:O	14:BE:165:SER:N	2.34	0.61
14:BE:220:ALA:C	14:BE:222:THR:H	2.09	0.61
32:BW:188:GLY:O	32:BW:191:ILE:HG23	2.01	0.61
32:BW:215:ALA:C	32:BW:217:GLY:H	2.09	0.61
1:A1:12:MET:HB2	1:A1:30:VAL:HG23	1.81	0.61
2:A2:40:THR:HG22	2:A2:40:THR:O	2.00	0.61
4:A4:139:ARG:HG2	4:A4:141:PHE:CE1	2.35	0.61
4:A4:165:SER:HA	4:A4:168:ARG:NE	2.14	0.61
6:A6:31:MET:HE2	6:A6:71:ILE:HD11	1.82	0.61
10:AA:565:G:C8	10:AA:566:C:C5	2.89	0.61
10:AA:1430:C:O2'	10:AA:1431:A:C5'	2.48	0.61
20:AK:99:ALA:O	20:AK:100:LYS:C	2.43	0.61
21:AL:54:GLU:HG3	21:AL:56:ILE:HG13	1.83	0.61
8:B8:75:VAL:HG11	8:B8:83:LEU:HD11	1.82	0.61
10:BA:59:C:H3'	10:BA:60:C:C5'	2.30	0.61
10:BA:162:A:H5'	34:BY:136:LYS:HB3	1.81	0.61
10:BA:310:C:H5'	10:BA:310:C:H6	1.64	0.61
10:BA:546:G:H2'	10:BA:547:C:C6	2.36	0.61
10:BA:648:U:C5'	10:BA:649:U:OP2	2.48	0.61
10:BA:669:G:H2'	10:BA:670:G:C5'	2.24	0.61
10:BA:747:G:N2	10:BA:754:A:N1	2.49	0.61
10:BA:1076:U:OP2	21:BL:6:PRO:HB3	2.01	0.61
10:BA:1303:A:O2'	31:BV:46:LEU:HD12	2.00	0.61
10:BA:1522:U:H3	10:BA:1533:G:H1	1.48	0.61
11:BB:45:ASN:HD21	31:BV:109:LEU:HD13	1.66	0.61
15:BF:23:VAL:HG21	15:BF:78:ARG:HD3	1.83	0.61
16:BG:72:MET:O	16:BG:72:MET:HG3	2.00	0.61
18:BI:4:GLN:O	18:BI:5:LYS:HB3	2.01	0.61
24:BO:107:ASN:O	24:BO:109:LYS:N	2.34	0.61
25:BP:10:ILE:HG12	25:BP:21:LEU:CB	2.30	0.61
27:BR:114:PHE:HB3	27:BR:145:TRP:CZ3	2.35	0.61
32:BW:42:LEU:HB2	32:BW:111:PHE:CD2	2.35	0.61
8:A8:60:VAL:HG12	8:A8:60:VAL:O	2.01	0.61
10:AA:83:C:C3'	10:AA:84:U:H5"	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:249:A:H1'	32:AW:133:ILE:HD11	1.83	0.61
10:AA:547:C:H5"	10:AA:548:A:OP1	2.00	0.61
10:AA:630:A:H2'	10:AA:631:C:C5'	2.31	0.61
10:AA:1027:U:H2'	10:AA:1028:G:H5'	1.81	0.61
10:AA:1348:U:H2'	10:AA:1348:U:O2	2.00	0.61
14:AE:182:ALA:O	14:AE:185:PRO:HD2	2.01	0.61
16:AG:16:LYS:O	16:AG:17:TRP:CG	2.54	0.61
31:AV:41:VAL:HG11	31:AV:47:ARG:CA	2.31	0.61
32:AW:37:LYS:NZ	32:AW:37:LYS:HB3	2.15	0.61
34:AY:199:THR:O	34:AY:203:VAL:HG23	2.01	0.61
2:B2:169:SER:O	2:B2:170:GLN:HB2	2.00	0.61
10:BA:447:C:HO2'	25:BP:132:TRP:CD1	2.18	0.61
10:BA:604:G:H21	21:BL:19:ARG:HH21	1.49	0.61
10:BA:761:U:H4'	10:BA:762:U:O5'	2.01	0.61
10:BA:1366:G:C2'	10:BA:1367:C:H5'	2.31	0.61
10:BA:1366:G:N2	10:BA:1373:G:N2	2.48	0.61
13:BD:17:ARG:NH2	14:BE:183:PRO:HD3	2.05	0.61
13:BD:38:ASN:ND2	13:BD:40:ARG:HD2	2.15	0.61
16:BG:95:ILE:HG22	16:BG:103:PRO:HB3	1.83	0.61
16:BG:177:LYS:O	16:BG:178:ASN:HB2	2.00	0.61
20:BK:101:GLY:O	20:BK:102:GLY:C	2.44	0.61
25:BP:55:VAL:HG22	25:BP:58:PHE:HE1	1.64	0.61
28:BS:74:ALA:C	28:BS:76:GLU:H	2.07	0.61
31:BV:35:LEU:HD23	31:BV:35:LEU:O	2.01	0.61
31:BV:58:MET:O	31:BV:62:GLN:HG2	2.01	0.61
3:A3:81:ILE:HG12	3:A3:94:PHE:CE1	2.36	0.60
3:A3:113:ARG:NH2	10:AA:633:U:OP1	2.34	0.60
10:AA:12:U:H1'	10:AA:1272:A:N3	2.16	0.60
10:AA:59:C:H3'	10:AA:60:C:C5'	2.30	0.60
10:AA:1007:U:C3'	10:AA:1008:A:C5'	2.79	0.60
10:AA:1018:G:H5'	10:AA:1018:G:H8	1.65	0.60
10:AA:1137:A:O2'	10:AA:1138:A:H5'	2.01	0.60
12:AC:228:ARG:HG2	27:AR:243:LEU:C	2.26	0.60
27:AR:235:LYS:HZ3	27:AR:256:SER:H	1.47	0.60
27:AR:297:GLU:HA	27:AR:300:THR:OG1	2.01	0.60
29:AT:119:LYS:HE2	29:AT:130:ARG:CZ	2.31	0.60
29:AT:124:ALA:HA	29:AT:127:LYS:HE2	1.83	0.60
34:AY:77:LEU:HD12	34:AY:84:PHE:HB2	1.83	0.60
1:B1:66:ARG:O	1:B1:67:LEU:HG	2.01	0.60
2:B2:40:THR:HG22	2:B2:40:THR:O	2.01	0.60
2:B2:136:THR:HG22	2:B2:137:VAL:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:38:ARG:NH2	5:B5:86:VAL:HG23	2.16	0.60
8:B8:30:TRP:C	8:B8:30:TRP:HD1	2.08	0.60
10:BA:10:G:H1	10:BA:1117:U:H3	1.47	0.60
10:BA:86:C:C2'	10:BA:87:G:H5'	2.31	0.60
10:BA:297:U:OP1	26:BQ:104:ARG:HD3	2.00	0.60
10:BA:865:A:O2'	10:BA:866:U:H5'	2.00	0.60
10:BA:1007:U:C3'	10:BA:1008:A:C5'	2.79	0.60
10:BA:1514:G:H5'	29:BT:90:GLY:HA2	1.83	0.60
10:BA:1645:C:H42	10:BA:1680:A:H61	1.48	0.60
11:BB:11:LYS:CE	31:BV:115:PRO:HB2	2.30	0.60
14:BE:91:THR:O	14:BE:94:GLY:N	2.34	0.60
16:BG:45:PRO:CG	16:BG:85:ILE:HG23	2.31	0.60
22:BM:14:ILE:CG2	22:BM:22:ILE:HG23	2.31	0.60
32:BW:161:THR:OG1	32:BW:229:VAL:HB	2.01	0.60
33:BX:63:HIS:C	33:BX:65:GLY:N	2.56	0.60
34:BY:141:ILE:HG21	34:BY:156:ILE:HG23	1.83	0.60
2:A2:201:ARG:NH2	26:AQ:1:MET:HE3	2.15	0.60
8:A8:75:VAL:CG1	8:A8:79:LEU:HD13	2.30	0.60
10:AA:1279:U:C2'	10:AA:1280:G:H5'	2.31	0.60
10:AA:1653:C:H4'	34:AY:65:GLN:HG2	1.83	0.60
16:AG:21:GLU:HG2	16:AG:102:ASN:HB2	1.81	0.60
17:AH:77:PRO:HB2	21:AL:9:ILE:HG13	1.82	0.60
17:AH:97:ARG:C	17:AH:98:GLN:HG2	2.26	0.60
21:AL:47:HIS:ND1	21:AL:104:ALA:HB2	2.15	0.60
21:AL:60:SER:OG	21:AL:64:ASN:HB2	2.01	0.60
26:AQ:39:LEU:HA	32:AW:204:GLN:HE21	1.64	0.60
29:AT:21:GLU:HG3	29:AT:147:ILE:CD1	2.31	0.60
29:AT:72:PRO:O	29:AT:73:HIS:HB2	2.00	0.60
31:AV:112:GLN:HG3	31:AV:113:ASN:N	2.15	0.60
32:AW:215:ALA:C	32:AW:217:GLY:H	2.08	0.60
3:B3:103:LYS:HD3	10:BA:633:U:H3'	1.83	0.60
5:B5:86:VAL:HG13	10:BA:1750:A:N1	2.15	0.60
6:B6:33:VAL:HA	6:B6:76:ALA:O	2.00	0.60
10:BA:59:C:H5'	10:BA:60:C:OP2	2.01	0.60
10:BA:444:A:C2'	10:BA:445:U:H5'	2.30	0.60
10:BA:565:G:C8	10:BA:566:C:C5	2.89	0.60
10:BA:586:A:C2'	10:BA:587:U:H5'	2.31	0.60
10:BA:628:G:O2'	10:BA:629:A:H5'	2.01	0.60
10:BA:840:A:H2'	10:BA:941:A:H61	1.65	0.60
10:BA:1188:A:O5'	10:BA:1188:A:H8	1.84	0.60
15:BF:44:TYR:CD1	15:BF:44:TYR:N	2.62	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BV:107:LYS:HG2	31:BV:112:GLN:HB2	1.82	0.60
32:BW:11:ARG:HH12	32:BW:20:LEU:HD22	1.65	0.60
2:A2:56:VAL:HG22	10:AA:324:A:P	2.42	0.60
3:A3:13:THR:H	3:A3:16:GLU:HB2	1.66	0.60
5:A5:38:ARG:HH22	5:A5:86:VAL:CG2	2.13	0.60
8:A8:47:LYS:HG2	22:AM:5:ILE:HG23	1.82	0.60
10:AA:315:U:O2'	26:AQ:79:MET:CE	2.49	0.60
10:AA:422:G:H5'	10:AA:422:G:C8	2.26	0.60
10:AA:454:C:O2'	10:AA:455:C:H5"	2.00	0.60
10:AA:1019:G:N2	10:AA:1020:G:C2	2.70	0.60
10:AA:1086:G:C2'	10:AA:1087:U:OP2	2.49	0.60
10:AA:1340:G:C3'	10:AA:1341:U:H5"	2.31	0.60
10:AA:1556:G:C5	18:AI:124:ARG:NH1	2.70	0.60
10:AA:1562:G:H5'	29:AT:94:ASN:O	2.02	0.60
10:AA:1580:U:H5"	18:AI:74:SER:CB	2.31	0.60
10:AA:1701:C:H2'	10:AA:1702:A:H5'	1.84	0.60
12:AC:227:ILE:HG21	27:AR:246:THR:HG23	1.82	0.60
13:AD:108:ARG:HH22	13:AD:126:ARG:NH2	1.99	0.60
13:AD:126:ARG:HA	13:AD:129:ILE:HD11	1.83	0.60
20:AK:36:THR:HG22	20:AK:37:TRP:H	1.65	0.60
27:AR:13:LYS:HZ3	27:AR:295:GLU:HB3	1.66	0.60
27:AR:255:GLY:H	27:AR:279:LYS:HE3	1.65	0.60
28:AS:24:LEU:HG	28:AS:37:GLU:HB3	1.82	0.60
29:AT:117:ILE:HG23	29:AT:130:ARG:HB3	1.81	0.60
31:AV:98:ILE:HG23	31:AV:102:THR:HB	1.82	0.60
32:AW:89:MET:HA	32:AW:89:MET:CE	2.31	0.60
32:AW:204:GLN:O	32:AW:206:SER:N	2.34	0.60
34:AY:130:PRO:O	34:AY:131:ARG:C	2.45	0.60
1:B1:58:MET:SD	16:BG:117:ARG:HD3	2.40	0.60
2:B2:93:ALA:HA	26:BQ:9:TYR:CD2	2.36	0.60
3:B3:117:ARG:HH22	10:BA:834:A:H2'	1.65	0.60
3:B3:138:GLY:N	3:B3:154:GLN:HB2	2.15	0.60
4:B4:34:PHE:CD2	4:B4:45:PHE:HB3	2.35	0.60
4:B4:45:PHE:HZ	20:BK:128:ARG:HH12	1.50	0.60
8:B8:47:LYS:HG2	22:BM:5:ILE:HG23	1.82	0.60
10:BA:5:U:OP1	14:BE:184:ILE:HD12	2.00	0.60
10:BA:33:G:H8	10:BA:33:G:H5'	1.66	0.60
10:BA:145:G:O2'	34:BY:13:GLN:HG3	2.02	0.60
10:BA:1175:A:N1	10:BA:1527:A:C5	2.69	0.60
10:BA:1514:G:O2'	10:BA:1515:A:H8	1.84	0.60
10:BA:1594:G:H2'	10:BA:1595:C:C6	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1716:A:C3'	10:BA:1717:C:H5"	2.31	0.60
10:BA:1745:G:H3'	10:BA:1746:G:C5'	2.29	0.60
11:BB:193:VAL:CG1	11:BB:197:LEU:HD12	2.31	0.60
12:BC:161:ILE:HD12	12:BC:170:TYR:HB2	1.83	0.60
16:BG:66:ARG:NH2	16:BG:143:ASN:HD21	1.98	0.60
17:BH:94:LEU:HD13	17:BH:100:GLY:HA2	1.82	0.60
22:BM:21:ASN:HD21	22:BM:102:SER:HB3	1.65	0.60
23:BN:33:TYR:O	23:BN:34:GLU:CB	2.48	0.60
25:BP:140:SER:O	25:BP:143:LEU:HB2	2.00	0.60
29:BT:15:ALA:HB2	29:BT:66:ARG:NE	2.16	0.60
31:BV:89:SER:C	31:BV:91:ILE:H	2.08	0.60
34:BY:1:MET:HE2	34:BY:3:PHE:CZ	2.36	0.60
34:BY:70:ARG:NH2	34:BY:104:PRO:HD3	2.14	0.60
2:A2:25:ARG:NH2	10:AA:376:A:OP1	2.34	0.60
2:A2:128:ASP:O	2:A2:129:LEU:HB2	2.01	0.60
2:A2:147:VAL:O	2:A2:151:VAL:HG23	2.00	0.60
5:A5:5:ARG:NH2	10:AA:1748:U:OP2	2.34	0.60
8:A8:87:MET:HE2	8:A8:93:VAL:HG21	1.82	0.60
10:AA:481:A:H2'	10:AA:482:A:H5"	1.83	0.60
10:AA:676:C:H4'	10:AA:677:G:C5'	2.31	0.60
10:AA:706:U:H2'	10:AA:707:U:C5	2.36	0.60
10:AA:828:U:H2'	10:AA:829:U:O4'	2.01	0.60
10:AA:1429:G:H2'	10:AA:1429:G:N3	2.16	0.60
10:AA:1475:G:P	29:AT:102:LYS:HB2	2.41	0.60
10:AA:1514:G:H5'	29:AT:90:GLY:HA2	1.81	0.60
13:AD:109:LEU:HB2	13:AD:146:PHE:CB	2.31	0.60
17:AH:74:VAL:HG13	17:AH:126:LEU:O	2.02	0.60
20:AK:62:VAL:CG1	20:AK:63:LYS:H	2.14	0.60
25:AP:18:ARG:NH2	25:AP:20:GLN:NE2	2.50	0.60
2:B2:37:LYS:O	2:B2:38:LEU:HD23	2.01	0.60
3:B3:135:THR:HB	24:BO:23:ARG:NH1	2.15	0.60
8:B8:38:LYS:NZ	10:BA:1507:U:H3'	2.16	0.60
9:B9:72:LYS:HG3	10:BA:1244:U:OP1	2.01	0.60
9:B9:98:LEU:HB3	9:B9:100:PHE:CE1	2.36	0.60
9:B9:154:UNK:HA	9:B9:157:UNK:HG3	1.83	0.60
10:BA:158:G:H5"	34:BY:112:GLN:NE2	2.15	0.60
10:BA:245:A:H4'	10:BA:246:U:OP1	2.00	0.60
10:BA:273:A:N3	10:BA:273:A:H2'	2.17	0.60
10:BA:614:A:OP2	10:BA:615:A:OP2	2.20	0.60
10:BA:798:G:N3	10:BA:799:G:C8	2.69	0.60
12:BC:228:ARG:NH2	27:BR:243:LEU:HD22	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:97:GLU:O	21:BL:98:ASN:HB2	2.00	0.60
27:BR:285:THR:CG2	27:BR:286:GLN:H	2.02	0.60
2:A2:39:THR:HG21	2:A2:48:LYS:HA	1.83	0.60
8:A8:31:THR:OG1	15:BF:42:PHE:HD2	1.85	0.60
10:AA:802:U:H3	10:AA:830:G:H1	1.49	0.60
10:AA:1299:C:H4'	12:AC:162:CYS:SG	2.41	0.60
16:AG:95:ILE:HG22	16:AG:103:PRO:HB3	1.80	0.60
21:AL:34:LEU:O	21:AL:35:GLY:C	2.45	0.60
27:AR:220:SER:HB2	27:AR:261:ILE:O	2.01	0.60
27:AR:250:ARG:HG3	27:AR:252:PHE:CE1	2.37	0.60
29:AT:101:GLY:O	29:AT:105:ARG:HG2	2.00	0.60
32:AW:188:GLY:N	32:AW:191:ILE:CG2	2.65	0.60
34:AY:41:LEU:HB3	34:AY:45:PHE:CD1	2.37	0.60
34:AY:139:ASN:O	34:AY:143:LYS:HG3	2.02	0.60
2:B2:154:THR:O	2:B2:156:ALA:N	2.31	0.60
3:B3:178:THR:HG21	3:B3:180:ARG:HD2	1.83	0.60
3:B3:178:THR:CG2	3:B3:180:ARG:HG3	2.31	0.60
6:B6:31:MET:CE	6:B6:71:ILE:HD11	2.30	0.60
10:BA:627:U:P	21:BL:10:ARG:HB2	2.42	0.60
10:BA:1018:G:O2'	10:BA:1019:G:H5'	2.02	0.60
10:BA:1603:A:H62	10:BA:1717:C:H4'	1.65	0.60
14:BE:77:LEU:HD11	14:BE:105:VAL:CG1	2.31	0.60
26:BQ:70:ILE:HD11	26:BQ:136:PHE:CZ	2.37	0.60
27:BR:250:ARG:HG3	27:BR:252:PHE:CE1	2.35	0.60
32:BW:203:HIS:O	32:BW:205:GLY:N	2.27	0.60
7:A7:11:ARG:HG3	7:A7:15:GLN:HE21	1.64	0.60
9:A9:152:UNK:HA	9:A9:155:UNK:HG3	1.84	0.60
10:AA:104:A:C2	10:AA:298:G:C2	2.90	0.60
10:AA:139:A:O2'	10:AA:140:U:H5'	2.02	0.60
10:AA:186:C:H2'	10:AA:187:U:O4'	2.01	0.60
10:AA:481:A:C2'	10:AA:482:A:H5"	2.32	0.60
10:AA:955:A:N6	10:AA:1003:A:C5	2.70	0.60
10:AA:1492:U:O2'	10:AA:1493:A:P	2.60	0.60
10:AA:1745:G:H3'	10:AA:1746:G:C5'	2.29	0.60
18:AI:22:ALA:CB	18:AI:86:ALA:HB1	2.32	0.60
24:AO:60:HIS:O	24:AO:62:ILE:HG13	2.01	0.60
25:AP:23:LEU:HD11	25:AP:71:ALA:CB	2.29	0.60
31:AV:35:LEU:CD2	31:AV:41:VAL:HG21	2.31	0.60
32:AW:97:THR:HB	32:AW:99:GLN:HG2	1.82	0.60
32:AW:102:ARG:NE	32:AW:238:ILE:HG21	2.16	0.60
34:AY:137:ARG:HG3	34:AY:181:ARG:HG3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:45:VAL:HG12	1:B1:46:LYS:H	1.67	0.60
5:B5:41:VAL:HG23	5:B5:41:VAL:O	2.00	0.60
5:B5:67:PRO:HD3	20:BK:129:ILE:HD12	1.84	0.60
9:B9:152:UNK:HA	9:B9:155:UNK:HG3	1.82	0.60
10:BA:797:A:C2'	10:BA:798:G:O4'	2.41	0.60
10:BA:828:U:H2'	10:BA:829:U:O4'	2.02	0.60
10:BA:1188:A:H5"	10:BA:1189:A:OP1	2.00	0.60
10:BA:1325:G:H8	10:BA:1325:G:O5'	1.85	0.60
10:BA:1430:C:H3'	22:BM:138:THR:CG2	2.32	0.60
10:BA:1473:G:N2	10:BA:1475:G:H3'	2.15	0.60
10:BA:1511:A:O2'	10:BA:1512:G:H5'	2.02	0.60
12:BC:196:GLU:HG3	12:BC:203:PHE:HB2	1.82	0.60
14:BE:205:THR:HG23	14:BE:211:PHE:CD1	2.36	0.60
19:BJ:97:ASP:O	19:BJ:101:ILE:HG13	2.02	0.60
23:BN:6:TRP:CE3	23:BN:7:ARG:HG2	2.36	0.60
26:BQ:146:ILE:CD1	26:BQ:153:GLN:HG2	2.32	0.60
27:BR:86:GLN:HB3	27:BR:87:GLU:OE2	2.02	0.60
27:BR:271:ALA:HB2	27:BR:317:TRP:CZ2	2.37	0.60
32:BW:127:LYS:NZ	32:BW:186:GLN:HE22	1.98	0.60
7:A7:103:GLU:HG2	12:AC:92:GLU:OE1	2.02	0.60
10:AA:10:G:H1	10:AA:1117:U:H3	1.50	0.60
10:AA:897:A:O2'	10:AA:898:U:H5'	2.02	0.60
10:AA:1575:U:H2'	10:AA:1576:U:H6	1.66	0.60
23:AN:36:MET:HE2	23:AN:36:MET:N	2.16	0.60
26:AQ:11:LYS:O	26:AQ:53:VAL:HG21	2.02	0.60
4:B4:90:VAL:HG23	4:B4:104:TYR:HB2	1.84	0.60
10:BA:687:U:H2'	10:BA:688:A:H8	1.66	0.60
10:BA:1229:U:H2'	10:BA:1230:U:H5'	1.83	0.60
10:BA:1403:U:O2'	10:BA:1404:G:P	2.60	0.60
10:BA:1531:G:H2'	10:BA:1532:U:OP1	2.01	0.60
10:BA:1675:A:H5"	34:BY:75:LEU:HD13	1.83	0.60
11:BB:89:THR:HB	11:BB:91:CYS:SG	2.40	0.60
13:BD:26:ASN:O	13:BD:29:LYS:HG3	2.01	0.60
14:BE:58:PRO:HG2	14:BE:59:GLU:OE1	2.02	0.60
14:BE:228:PRO:HA	14:BE:231:TRP:CD1	2.36	0.60
16:BG:13:LEU:HD12	16:BG:14:PHE:N	2.17	0.60
23:BN:35:MET:O	23:BN:35:MET:HG3	2.02	0.60
28:BS:124:PHE:N	28:BS:124:PHE:CD1	2.68	0.60
30:BU:36:ILE:HG23	30:BU:68:ILE:HD12	1.82	0.60
31:BV:3:ARG:O	31:BV:3:ARG:HG3	2.02	0.60
32:BW:143:THR:HG22	32:BW:145:ASP:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:95:ASN:ND2	10:AA:332:A:H4'	2.16	0.60
5:A5:41:VAL:O	5:A5:41:VAL:HG23	2.02	0.60
10:AA:273:A:H2'	10:AA:273:A:N3	2.16	0.60
10:AA:300:C:H5'	10:AA:300:C:H6	1.67	0.60
10:AA:604:G:N2	10:AA:1080:G:H22	2.00	0.60
10:AA:747:G:N2	10:AA:755:G:C6	2.70	0.60
10:AA:747:G:N2	10:AA:754:A:N1	2.50	0.60
22:AM:88:ARG:HB2	22:AM:100:MET:HE3	1.83	0.60
22:AM:113:LEU:N	22:AM:113:LEU:HD23	2.16	0.60
25:AP:90:ARG:HB3	25:AP:96:GLY:O	2.00	0.60
35:AZ:34:TRP:HD1	35:AZ:82:ALA:HB1	1.65	0.60
5:B5:77:ILE:HD12	5:B5:77:ILE:N	2.16	0.60
10:BA:2:A:O2'	10:BA:3:C:OP1	2.19	0.60
10:BA:435:C:O2'	10:BA:436:C:H5'	2.01	0.60
10:BA:481:A:C2'	10:BA:482:A:H5"	2.32	0.60
12:BC:38:ALA:CB	12:BC:94:ILE:HD11	2.31	0.60
12:BC:61:VAL:O	12:BC:68:LYS:HB3	2.01	0.60
13:BD:78:ARG:HD2	32:BW:260:TYR:OH	2.01	0.60
19:BJ:108:PRO:O	19:BJ:110:VAL:HG23	2.02	0.60
29:BT:119:LYS:HE2	29:BT:130:ARG:CZ	2.32	0.60
30:BU:4:GLN:O	30:BU:5:ASN:C	2.44	0.60
34:BY:63:MET:HA	34:BY:98:ARG:O	2.02	0.60
2:A2:10:LYS:NZ	10:AA:330:C:OP2	2.35	0.60
2:A2:105:VAL:HG12	2:A2:107:ASN:H	1.67	0.60
8:A8:46:GLU:HB2	22:AM:7:LYS:HG3	1.83	0.60
10:AA:33:G:H8	10:AA:33:G:H5'	1.65	0.60
10:AA:328:G:H2'	26:AQ:132:LYS:CE	2.31	0.60
10:AA:339:C:O2'	10:AA:340:A:H5'	2.02	0.60
10:AA:454:C:H2'	10:AA:455:C:C5'	2.32	0.60
10:AA:623:U:H3	10:AA:948:A:N6	1.98	0.60
10:AA:724:C:H2'	10:AA:724:C:O2	2.01	0.60
10:AA:840:A:O2'	10:AA:841:A:OP2	2.20	0.60
10:AA:1461:A:H5"	10:AA:1486:U:H3	1.67	0.60
14:AE:91:THR:O	14:AE:92:GLN:C	2.45	0.60
16:AG:40:SER:O	16:AG:42:VAL:HG23	2.01	0.60
22:AM:125:LEU:CG	22:AM:129:TRP:HE1	2.14	0.60
26:AQ:8:ALA:HB3	26:AQ:11:LYS:HE2	1.83	0.60
30:AU:106:ARG:C	30:AU:107:LYS:HG3	2.27	0.60
33:AX:31:PRO:HG3	33:AX:39:ILE:HD11	1.82	0.60
33:AX:38:ARG:HG2	33:AX:42:ASN:HD21	1.67	0.60
5:B5:67:PRO:HG2	20:BK:129:ILE:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:454:C:O2'	10:BA:455:C:H5"	2.02	0.60
10:BA:1244:U:H3	10:BA:1409:G:H1	1.47	0.60
10:BA:1471:C:O2'	10:BA:1472:U:H5'	2.00	0.60
10:BA:1558:A:C4	10:BA:1583:A:N6	2.70	0.60
13:BD:37:LYS:HE2	13:BD:126:ARG:NH1	2.17	0.60
14:BE:159:ILE:HG22	14:BE:160:THR:H	1.67	0.60
29:BT:60:ARG:NH2	29:BT:83:PHE:HD2	1.98	0.60
31:BV:17:ILE:HD11	31:BV:54:ALA:O	2.02	0.60
34:BY:228:HIS:O	34:BY:232:ALA:HB2	2.02	0.60
1:A1:62:ARG:O	1:A1:63:GLU:CB	2.50	0.60
10:AA:47:C:HO2'	10:AA:48:C:H5'	1.66	0.60
10:AA:110:A:HO2'	10:AA:111:G:P	2.25	0.60
10:AA:316:G:OP2	26:AQ:132:LYS:HE3	2.02	0.60
10:AA:460:A:N6	10:AA:589:G:C8	2.70	0.60
10:AA:525:U:H5"	25:AP:63:GLY:H	1.66	0.60
10:AA:669:G:H2'	10:AA:670:G:C5'	2.23	0.60
10:AA:882:G:N7	10:AA:883:A:C4	2.69	0.60
10:AA:932:G:H5"	24:AO:7:LYS:HZ3	1.67	0.60
10:AA:1486:U:H5'	10:AA:1487:A:C2	2.37	0.60
11:AB:141:ILE:HG23	11:AB:155:VAL:CG1	2.32	0.60
13:AD:97:LEU:O	13:AD:99:LEU:N	2.32	0.60
26:AQ:6:GLN:HA	26:AQ:6:GLN:OE1	2.02	0.60
32:AW:11:ARG:HG2	32:AW:27:TRP:O	2.01	0.60
32:AW:124:LYS:HZ1	32:AW:145:ASP:CG	2.10	0.60
32:AW:204:GLN:C	32:AW:206:SER:N	2.57	0.60
2:B2:55:ARG:HD3	2:B2:55:ARG:C	2.27	0.60
10:BA:47:C:C2'	10:BA:48:C:H5'	2.32	0.60
10:BA:90:U:P	32:BW:3:ARG:HB2	2.42	0.60
10:BA:134:C:O2'	10:BA:135:A:OP2	2.20	0.60
10:BA:311:U:H4'	10:BA:312:C:O4'	2.01	0.60
10:BA:553:A:O2'	10:BA:554:U:OP2	2.18	0.60
10:BA:559:C:O2	10:BA:559:C:H2'	2.02	0.60
10:BA:561:A:N3	33:BX:14:VAL:HG21	2.17	0.60
10:BA:726:U:C6	10:BA:792:G:N2	2.70	0.60
10:BA:905:C:O2	20:BK:138:ASP:CB	2.46	0.60
10:BA:1501:C:H2'	10:BA:1502:A:H8	1.67	0.60
14:BE:33:LEU:HD22	14:BE:53:ILE:HG22	1.84	0.60
22:BM:14:ILE:HG23	22:BM:22:ILE:HG23	1.83	0.60
24:BO:15:GLY:O	24:BO:16:SER:HB2	2.00	0.60
32:BW:122:LYS:HG3	32:BW:167:VAL:CG2	2.32	0.60
33:BX:50:LEU:CD2	33:BX:57:ARG:HH12	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:65:ARG:HH21	1:A1:67:LEU:HD12	1.67	0.59
9:A9:126:ALA:HA	10:AA:1224:C:C5'	2.24	0.59
10:AA:5:U:C2	10:AA:20:G:N2	2.70	0.59
10:AA:245:A:H4'	10:AA:246:U:OP1	2.02	0.59
10:AA:812:U:H2'	10:AA:813:U:H5'	1.84	0.59
10:AA:843:A:N6	10:AA:942:U:C5	2.70	0.59
10:AA:1028:G:H5'	10:AA:1028:G:C8	2.29	0.59
10:AA:1397:C:H5"	10:AA:1398:A:OP2	2.02	0.59
10:AA:1471:C:O2'	10:AA:1472:U:H5'	2.01	0.59
10:AA:1720:G:H4'	10:AA:1721:G:O5'	2.02	0.59
12:AC:35:ALA:HB1	12:AC:57:LYS:HB2	1.83	0.59
13:AD:80:MET:HG2	13:AD:86:LEU:HD12	1.83	0.59
14:AE:45:LEU:N	14:AE:64:PHE:CE2	2.70	0.59
18:AI:138:SER:C	18:AI:139:LYS:HG3	2.27	0.59
22:AM:38:ILE:HG23	22:AM:42:PHE:HB3	1.84	0.59
23:AN:39:ARG:HG3	23:AN:40:ARG:HG2	1.83	0.59
27:AR:190:VAL:CG2	27:AR:219:LEU:HD13	2.31	0.59
1:B1:20:SER:C	1:B1:22:GLY:N	2.57	0.59
2:B2:22:ARG:NH1	2:B2:25:ARG:HH12	1.93	0.59
2:B2:154:THR:C	2:B2:156:ALA:N	2.58	0.59
8:B8:60:VAL:HG13	8:B8:72:LYS:HG2	1.84	0.59
10:BA:74:A:H1'	34:BY:179:ILE:CD1	2.31	0.59
10:BA:547:C:H5"	10:BA:548:A:OP1	2.02	0.59
10:BA:676:C:H4'	10:BA:677:G:C5'	2.31	0.59
10:BA:676:C:O2'	10:BA:677:G:OP2	2.19	0.59
10:BA:882:G:N7	10:BA:883:A:C4	2.70	0.59
10:BA:1444:U:O4	16:BG:74:HIS:HB2	2.02	0.59
11:BB:5:ARG:HG2	11:BB:187:LYS:NZ	2.17	0.59
17:BH:35:LEU:HD21	17:BH:61:VAL:HG21	1.84	0.59
23:BN:4:LYS:HD2	23:BN:6:TRP:HE1	1.67	0.59
28:BS:66:ARG:NH1	28:BS:93:GLU:HB3	2.17	0.59
28:BS:69:LYS:HE2	28:BS:97:GLY:N	2.17	0.59
2:A2:177:THR:HG21	10:AA:205:A:OP1	2.02	0.59
4:A4:20:LYS:O	4:A4:20:LYS:HG3	2.00	0.59
8:A8:58:SER:CB	8:A8:111:VAL:HG13	2.27	0.59
10:AA:224:G:H1	10:AA:233:U:H3	1.48	0.59
10:AA:794:A:O3'	10:AA:797:A:H2	1.84	0.59
11:AB:12:ARG:O	11:AB:169:MET:HE1	2.01	0.59
12:AC:47:THR:HG22	12:AC:48:LYS:HG3	1.82	0.59
16:AG:101:ARG:O	16:AG:103:PRO:HD3	2.02	0.59
24:AO:31:THR:O	24:AO:32:PRO:C	2.44	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AQ:5:ILE:O	26:AQ:6:GLN:C	2.45	0.59
27:AR:252:PHE:HB3	27:AR:281:PHE:CE2	2.37	0.59
31:AV:89:SER:C	31:AV:91:ILE:H	2.09	0.59
35:AZ:83:LEU:O	35:AZ:87:LEU:HG	2.02	0.59
3:B3:15:ILE:H	3:B3:15:ILE:HD12	1.67	0.59
7:B7:52:ARG:HB2	7:B7:54:PHE:HE1	1.66	0.59
9:B9:98:LEU:HD23	9:B9:100:PHE:HE1	1.67	0.59
10:BA:29:G:H4'	21:BL:130:SER:HB3	1.84	0.59
10:BA:758:A:H2'	10:BA:759:G:C8	2.32	0.59
10:BA:1069:U:O2'	10:BA:1070:U:OP2	2.16	0.59
10:BA:1089:U:O2	10:BA:1626:A:C2	2.55	0.59
10:BA:1704:C:O2'	10:BA:1705:A:H5'	2.02	0.59
12:BC:170:TYR:CZ	12:BC:205:VAL:HG11	2.37	0.59
13:BD:80:MET:HG2	13:BD:86:LEU:HD12	1.83	0.59
27:BR:168:VAL:O	27:BR:169:ARG:HD3	2.01	0.59
32:BW:97:THR:HB	32:BW:99:GLN:HG2	1.83	0.59
3:A3:178:THR:HG21	3:A3:180:ARG:HD2	1.82	0.59
9:A9:83:LYS:HG3	9:A9:84:LYS:H	1.67	0.59
10:AA:272:U:H3'	10:AA:273:A:H5"	1.84	0.59
10:AA:1430:C:H3'	22:AM:138:THR:HG21	1.84	0.59
10:AA:1535:A:OP1	29:AT:87:LYS:NZ	2.33	0.59
14:AE:46:ASP:OD2	35:AZ:26:ALA:HB1	2.01	0.59
15:AF:39:PRO:HG2	15:AF:42:PHE:CE1	2.36	0.59
15:AF:48:MET:CE	15:AF:59:ALA:HB1	2.33	0.59
17:AH:28:ARG:HB3	17:AH:29:PRO:CD	2.32	0.59
22:AM:1:MET:CG	22:AM:2:SER:N	2.57	0.59
30:AU:58:LEU:O	30:AU:62:LEU:HG	2.02	0.59
10:BA:14:C:H1'	10:BA:1114:G:N2	2.16	0.59
10:BA:83:C:H2'	10:BA:84:U:C5'	2.20	0.59
10:BA:325:U:O2'	10:BA:326:U:H5'	2.02	0.59
10:BA:760:G:H21	10:BA:766:G:H22	1.47	0.59
10:BA:766:G:N2	10:BA:767:C:C2	2.70	0.59
10:BA:859:A:H8	10:BA:859:A:H5'	1.64	0.59
10:BA:874:U:H3	10:BA:892:G:N2	1.99	0.59
12:BC:82:TYR:C	12:BC:84:ASP:H	2.10	0.59
14:BE:141:ARG:HB3	14:BE:222:THR:CG2	2.32	0.59
14:BE:159:ILE:HG22	14:BE:160:THR:N	2.15	0.59
16:BG:55:LYS:O	16:BG:56:PHE:CD1	2.55	0.59
17:BH:30:VAL:HG21	17:BH:61:VAL:HG23	1.83	0.59
21:BL:54:GLU:HG3	21:BL:56:ILE:HG13	1.84	0.59
25:BP:82:LYS:HD2	25:BP:83:TYR:HE1	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:49:LYS:HZ1	27:BR:73:THR:HG22	1.66	0.59
27:BR:298:PRO:HD2	27:BR:334:ARG:HH21	1.66	0.59
29:BT:61:THR:HG23	29:BT:107:ALA:HB1	1.84	0.59
2:A2:105:VAL:HG13	10:AA:320:G:H4'	1.83	0.59
2:A2:154:THR:O	2:A2:156:ALA:N	2.31	0.59
5:A5:10:ARG:HB2	5:A5:33:ASP:OD2	2.01	0.59
10:AA:132:U:C1'	34:AY:149:LYS:HZ3	2.15	0.59
10:AA:315:U:H2'	10:AA:316:G:H8	1.67	0.59
10:AA:478:G:H1	10:AA:493:U:H3	1.48	0.59
10:AA:546:G:H2'	10:AA:547:C:C6	2.37	0.59
10:AA:687:U:H2'	10:AA:688:A:H8	1.67	0.59
10:AA:934:U:H2'	10:AA:935:G:H5'	1.83	0.59
10:AA:986:G:OP1	20:AK:149:ARG:NE	2.34	0.59
10:AA:1229:U:O2	10:AA:1229:U:H2'	2.00	0.59
10:AA:1384:U:H4'	10:AA:1385:U:OP2	2.02	0.59
10:AA:1403:U:O2'	10:AA:1404:G:OP2	2.19	0.59
10:AA:1455:A:N1	10:AA:1563:C:H1'	2.17	0.59
10:AA:1514:G:H22	10:AA:1540:G:H2'	1.65	0.59
10:AA:1558:A:C4	10:AA:1583:A:N6	2.70	0.59
10:AA:1720:G:H3'	10:AA:1720:G:P	2.42	0.59
13:AD:110:GLN:CD	13:AD:126:ARG:HG2	2.27	0.59
14:AE:39:TYR:HE2	14:AE:251:LYS:HE3	1.68	0.59
21:AL:37:ARG:HG2	21:AL:44:GLY:HA2	1.84	0.59
25:AP:7:THR:OG1	25:AP:10:ILE:HD11	2.02	0.59
25:AP:56:TYR:HE1	25:AP:70:PHE:HB2	1.65	0.59
30:AU:89:ASN:O	30:AU:91:LYS:N	2.34	0.59
31:AV:17:ILE:CD1	31:AV:57:LEU:HB2	2.32	0.59
32:AW:213:LYS:HG2	32:AW:214:ASP:N	2.16	0.59
34:AY:64:LYS:O	34:AY:65:GLN:C	2.45	0.59
2:B2:22:ARG:HD2	2:B2:25:ARG:CZ	2.32	0.59
3:B3:79:LYS:HA	3:B3:82:ILE:HD12	1.84	0.59
4:B4:73:ALA:CB	20:BK:128:ARG:NH2	2.65	0.59
8:B8:51:GLU:HA	8:B8:51:GLU:OE1	2.02	0.59
9:B9:116:CYS:HA	9:B9:125:MET:SD	2.43	0.59
9:B9:159:UNK:C	9:B9:162:UNK:HG3	2.31	0.59
10:BA:430:A:O2'	10:BA:457:G:N2	2.35	0.59
10:BA:504:A:OP2	13:BD:174:ARG:HG2	2.02	0.59
10:BA:623:U:OP2	10:BA:947:C:N4	2.35	0.59
10:BA:942:U:H1'	10:BA:943:U:C6	2.37	0.59
10:BA:955:A:C2'	10:BA:956:A:C5'	2.76	0.59
10:BA:1110:A:O2'	10:BA:1111:A:OP2	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1422:C:H5”	23:BN:8:THR:HB	1.84	0.59
11:BB:8:ASP:O	11:BB:12:ARG:HG2	2.03	0.59
14:BE:154:THR:HG23	14:BE:197:ILE:HG22	1.83	0.59
25:BP:15:LEU:HD22	32:BW:71:ASN:CB	2.32	0.59
26:BQ:11:LYS:O	26:BQ:53:VAL:HG21	2.01	0.59
27:BR:86:GLN:HB2	27:BR:130:ASN:HD21	1.67	0.59
32:BW:102:ARG:CG	32:BW:116:LEU:HD21	2.31	0.59
34:BY:76:LEU:CD2	34:BY:94:ARG:HD2	2.32	0.59
2:A2:136:THR:HG22	2:A2:137:VAL:N	2.17	0.59
3:A3:13:THR:HG22	3:A3:15:ILE:HD12	1.84	0.59
3:A3:46:LYS:O	3:A3:61:VAL:HG13	2.03	0.59
3:A3:80:LEU:HD13	3:A3:94:PHE:CE2	2.38	0.59
5:A5:30:VAL:CG2	5:A5:76:CYS:HB2	2.31	0.59
10:AA:328:G:H2’	26:AQ:132:LYS:NZ	2.18	0.59
10:AA:328:G:H3’	26:AQ:132:LYS:HE2	1.84	0.59
10:AA:552:C:H4’	33:AX:66:LYS:CE	2.31	0.59
10:AA:830:G:H2’	10:AA:831:G:H8	1.66	0.59
11:AB:174:ILE:O	11:AB:178:VAL:HG23	2.03	0.59
16:AG:189:LYS:C	16:AG:189:LYS:HD3	2.28	0.59
18:AI:88:SER:O	18:AI:92:VAL:HG23	2.02	0.59
22:AM:64:ASP:O	22:AM:68:LYS:HG2	2.03	0.59
27:AR:314:SER:O	27:AR:315:LEU:HD23	2.01	0.59
28:AS:56:GLU:CD	28:AS:56:GLU:N	2.60	0.59
28:AS:58:TYR:HD1	28:AS:88:MET:HE2	1.67	0.59
1:B1:11:ILE:HG12	1:B1:27:VAL:HG11	1.84	0.59
2:B2:10:LYS:HZ3	10:BA:330:C:P	2.25	0.59
6:B6:31:MET:HE3	6:B6:77:PHE:HB2	1.85	0.59
6:B6:77:PHE:O	6:B6:77:PHE:CD1	2.55	0.59
7:B7:89:PRO:HG2	7:B7:92:PHE:HB2	1.84	0.59
8:B8:60:VAL:HG12	8:B8:60:VAL:O	2.02	0.59
10:BA:224:G:H1	10:BA:233:U:H3	1.49	0.59
10:BA:359:U:H2’	10:BA:360:U:H5’	1.84	0.59
10:BA:419:C:O2’	10:BA:420:A:H5’	2.02	0.59
10:BA:878:A:P	20:BK:59:GLY:HA3	2.43	0.59
10:BA:984:C:O2	20:BK:151:LEU:HD22	2.03	0.59
10:BA:1265:U:H2’	10:BA:1266:G:H8	1.68	0.59
10:BA:1397:C:H5”	10:BA:1398:A:OP2	2.01	0.59
10:BA:1421:G:H4’	23:BN:6:TRP:HB2	1.83	0.59
10:BA:1514:G:H22	10:BA:1540:G:H2’	1.66	0.59
10:BA:1575:U:H2’	10:BA:1576:U:H6	1.67	0.59
11:BB:63:VAL:HG11	11:BB:69:VAL:CG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:108:ARG:HH22	13:BD:126:ARG:NH2	2.00	0.59
14:BE:141:ARG:HB2	14:BE:223:TYR:CE2	2.38	0.59
14:BE:154:THR:HG23	14:BE:197:ILE:CG2	2.33	0.59
16:BG:183:SER:OG	16:BG:186:ILE:HB	2.02	0.59
17:BH:17:ALA:HA	17:BH:22:LYS:HE3	1.84	0.59
18:BI:43:PRO:O	18:BI:45:ILE:N	2.36	0.59
23:BN:39:ARG:HG3	23:BN:40:ARG:HG2	1.84	0.59
28:BS:58:TYR:HD1	28:BS:88:MET:HE2	1.67	0.59
32:BW:9:LEU:HD12	32:BW:10:LYS:N	2.18	0.59
34:BY:16:ILE:HD13	34:BY:45:PHE:HZ	1.66	0.59
1:A1:20:SER:C	1:A1:22:GLY:N	2.60	0.59
4:A4:48:THR:CG2	4:A4:49:LEU:H	2.09	0.59
6:A6:17:ASN:O	6:A6:19:PHE:N	2.35	0.59
10:AA:159:G:O2'	10:AA:160:C:H5'	2.03	0.59
10:AA:866:U:C3'	10:AA:867:U:H5"	2.33	0.59
10:AA:1260:G:H2'	10:AA:1261:U:H5'	1.84	0.59
12:AC:215:ILE:HD12	31:AV:15:SER:HB2	1.85	0.59
18:AI:51:TYR:HA	18:AI:54:ILE:HD12	1.84	0.59
28:AS:66:ARG:HH12	28:AS:93:GLU:CB	2.15	0.59
30:AU:89:ASN:ND2	30:AU:90:ALA:N	2.35	0.59
32:AW:123:TYR:CD2	32:AW:163:LYS:HE2	2.38	0.59
1:B1:42:ILE:N	1:B1:63:GLU:HG3	2.15	0.59
10:BA:72:G:C8	10:BA:72:G:C3'	2.85	0.59
10:BA:77:G:H2'	10:BA:78:C:H6	1.67	0.59
10:BA:206:U:H5"	26:BQ:20:LYS:CD	2.33	0.59
10:BA:787:A:H1'	17:BH:105:THR:HG23	1.84	0.59
10:BA:932:G:C5'	24:BO:7:LYS:HZ1	2.15	0.59
10:BA:939:U:H2'	10:BA:939:U:O2	2.02	0.59
10:BA:1443:A:H5'	10:BA:1444:U:OP1	2.02	0.59
10:BA:1461:A:H5"	10:BA:1486:U:H3	1.68	0.59
10:BA:1517:A:OP1	22:BM:133:VAL:N	2.32	0.59
10:BA:1719:A:H1'	10:BA:1747:A:C4	2.38	0.59
11:BB:13:LEU:HA	11:BB:169:MET:CE	2.32	0.59
13:BD:132:ARG:C	13:BD:134:ILE:H	2.10	0.59
14:BE:159:ILE:CD1	14:BE:222:THR:HA	2.33	0.59
23:BN:25:ALA:HB1	23:BN:27:GLN:OE1	2.02	0.59
27:BR:99:THR:C	27:BR:100:LEU:HD12	2.26	0.59
30:BU:106:ARG:O	30:BU:107:LYS:HG3	2.03	0.59
31:BV:112:GLN:HE21	31:BV:113:ASN:HD22	1.51	0.59
5:A5:38:ARG:NE	10:AA:1751:U:C5	2.71	0.59
6:A6:31:MET:HE3	6:A6:77:PHE:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A8:29:LYS:NZ	10:AA:1509:U:H5'	2.18	0.59
8:A8:60:VAL:HG13	8:A8:72:LYS:HG2	1.83	0.59
10:AA:83:C:H2'	10:AA:84:U:C5'	2.18	0.59
10:AA:1707:G:H2'	10:AA:1708:A:C8	2.38	0.59
14:AE:159:ILE:HG22	14:AE:160:THR:H	1.68	0.59
17:AH:94:LEU:HD11	17:AH:102:VAL:HG23	1.85	0.59
21:AL:78:ASN:ND2	21:AL:80:LYS:CG	2.65	0.59
25:AP:85:PRO:HA	32:AW:59:ARG:NH1	2.16	0.59
26:AQ:9:TYR:O	26:AQ:10:GLN:CB	2.51	0.59
26:AQ:87:ARG:HD3	26:AQ:104:ARG:CZ	2.33	0.59
27:AR:86:GLN:HB3	27:AR:87:GLU:OE2	2.02	0.59
34:AY:23:LYS:HD3	34:AY:41:LEU:CD2	2.24	0.59
35:AZ:37:LYS:HG2	35:AZ:38:LEU:H	1.68	0.59
4:B4:73:ALA:CB	20:BK:128:ARG:HH22	2.15	0.59
9:B9:123:ILE:CD1	9:B9:136:LYS:HD2	2.33	0.59
10:BA:104:A:H2'	10:BA:105:G:C8	2.36	0.59
10:BA:504:A:OP1	13:BD:175:LYS:HE3	2.02	0.59
10:BA:1453:C:O2'	18:BI:79:GLN:NE2	2.35	0.59
12:BC:10:LYS:HA	12:BC:13:LYS:HG2	1.85	0.59
13:BD:126:ARG:HA	13:BD:129:ILE:HD11	1.84	0.59
13:BD:171:ARG:HB3	13:BD:175:LYS:HZ3	1.66	0.59
14:BE:112:ILE:HD12	14:BE:192:ALA:HB2	1.85	0.59
16:BG:34:ALA:CB	16:BG:62:PRO:HA	2.33	0.59
23:BN:33:TYR:O	23:BN:34:GLU:HB2	2.02	0.59
24:BO:117:LEU:HD21	24:BO:121:GLU:CD	2.28	0.59
26:BQ:6:GLN:OE1	26:BQ:6:GLN:HA	2.02	0.59
26:BQ:127:CYS:SG	26:BQ:130:ILE:HD11	2.43	0.59
28:BS:132:THR:HG22	28:BS:133:HIS:N	2.18	0.59
31:BV:105:MET:CE	31:BV:109:LEU:HD22	2.33	0.59
6:A6:45:PHE:CD2	24:AO:57:ARG:HD3	2.37	0.59
7:A7:99:PHE:CZ	12:AC:69:HIS:NE2	2.70	0.59
10:AA:350:A:H5"	10:AA:351:A:C5'	2.33	0.59
10:AA:1603:A:N7	10:AA:1717:C:O4'	2.36	0.59
11:AB:13:LEU:HA	11:AB:169:MET:CE	2.33	0.59
11:AB:99:TRP:CH2	11:AB:104:LEU:HG	2.38	0.59
12:AC:82:TYR:C	12:AC:84:ASP:H	2.10	0.59
14:AE:145:TRP:HE3	14:AE:173:ALA:O	1.86	0.59
18:AI:112:MET:HA	18:AI:112:MET:CE	2.32	0.59
20:AK:27:VAL:HG21	20:AK:89:LYS:O	2.02	0.59
31:AV:35:LEU:HD23	31:AV:35:LEU:C	2.28	0.59
34:AY:55:GLY:O	34:AY:62:PRO:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B4:90:VAL:C	4:B4:101:THR:HG23	2.26	0.59
9:B9:92:HIS:NE2	10:BA:1225:U:O4	2.35	0.59
10:BA:392:A:H3'	10:BA:393:C:O4'	2.01	0.59
10:BA:454:C:H2'	10:BA:455:C:C5'	2.33	0.59
10:BA:802:U:H3	10:BA:830:G:H1	1.51	0.59
10:BA:812:U:H2'	10:BA:813:U:H5'	1.84	0.59
10:BA:1710:G:H5'	10:BA:1711:U:OP2	2.03	0.59
19:BJ:95:VAL:N	19:BJ:96:PRO:HD2	2.17	0.59
20:BK:62:VAL:CG1	20:BK:63:LYS:H	2.15	0.59
32:BW:89:MET:HE1	32:BW:238:ILE:HD13	1.84	0.59
2:A2:10:LYS:HD2	10:AA:314:A:OP2	2.03	0.59
4:A4:90:VAL:HG23	4:A4:104:TYR:HB2	1.85	0.59
4:A4:124:ILE:CG2	4:A4:167:VAL:HG13	2.33	0.59
6:A6:34:LYS:HE2	6:A6:41:ILE:HD11	1.83	0.59
10:AA:14:C:H1'	10:AA:1114:G:N2	2.17	0.59
10:AA:643:U:O2'	10:AA:644:U:O5'	2.13	0.59
10:AA:721:A:H2'	10:AA:722:A:H8	1.66	0.59
10:AA:1191:A:C6	10:AA:1237:G:H1'	2.38	0.59
10:AA:1290:G:OP1	31:AV:67:ARG:HG2	2.01	0.59
10:AA:1405:U:H5	38:AA:2431:HOH:O	1.85	0.59
11:AB:63:VAL:HG11	11:AB:69:VAL:CG2	2.32	0.59
13:AD:37:LYS:HE2	13:AD:126:ARG:NH1	2.17	0.59
14:AE:91:THR:O	14:AE:94:GLY:N	2.35	0.59
16:AG:183:SER:OG	16:AG:186:ILE:HB	2.03	0.59
27:AR:184:ALA:N	27:AR:206:ARG:HH22	1.96	0.59
27:AR:298:PRO:HD2	27:AR:334:ARG:HH21	1.67	0.59
28:AS:36:ASP:O	28:AS:39:ALA:HB3	2.03	0.59
28:AS:86:ARG:NH1	28:AS:122:ALA:HB1	2.17	0.59
5:B5:42:ARG:HB3	5:B5:69:LEU:HB3	1.84	0.59
10:BA:12:U:H2'	10:BA:13:C:C6	2.38	0.59
10:BA:346:G:H2'	10:BA:347:G:H8	1.67	0.59
10:BA:481:A:H2'	10:BA:482:A:H5"	1.83	0.59
10:BA:533:G:C8	33:BX:28:ARG:NH1	2.69	0.59
10:BA:724:C:O2	10:BA:724:C:H2'	2.02	0.59
10:BA:871:U:H2'	10:BA:872:A:O4'	2.03	0.59
10:BA:1228:A:H5'	10:BA:1229:U:OP1	2.02	0.59
10:BA:1246:C:O2'	10:BA:1247:A:H5"	2.03	0.59
16:BG:95:ILE:HG21	16:BG:103:PRO:HB3	1.82	0.59
20:BK:36:THR:CG2	20:BK:37:TRP:N	2.66	0.59
21:BL:116:ILE:HG23	21:BL:117:PRO:HD2	1.84	0.59
22:BM:64:ASP:O	22:BM:68:LYS:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:117:SER:OG	32:BW:119:GLU:HB2	2.03	0.59
32:BW:122:LYS:HG3	32:BW:167:VAL:HG23	1.85	0.59
32:BW:177:LEU:HD23	32:BW:177:LEU:H	1.66	0.59
2:A2:87:LEU:HB3	2:A2:111:GLU:HB2	1.85	0.59
10:AA:29:G:H4'	21:AL:130:SER:CB	2.33	0.59
10:AA:821:C:H2'	10:AA:822:U:C6	2.38	0.59
10:AA:1368:A:O2'	10:AA:1370:U:OP2	2.21	0.59
10:AA:1421:G:H4'	23:AN:6:TRP:CE3	2.36	0.59
10:AA:1613:C:C1'	10:AA:1715:A:H2	2.12	0.59
14:AE:182:ALA:HB3	14:AE:185:PRO:CD	2.32	0.59
20:AK:36:THR:CG2	20:AK:37:TRP:N	2.65	0.59
25:AP:55:VAL:HG22	25:AP:58:PHE:HE1	1.68	0.59
27:AR:49:LYS:HZ1	27:AR:73:THR:HG22	1.67	0.59
28:AS:69:LYS:HE2	28:AS:97:GLY:N	2.18	0.59
31:AV:105:MET:CE	31:AV:109:LEU:HD22	2.33	0.59
32:AW:163:LYS:HD2	32:AW:237:TRP:CE3	2.37	0.59
10:BA:73:A:H4'	10:BA:74:A:O5'	2.03	0.59
10:BA:821:C:H2'	10:BA:822:U:C6	2.38	0.59
10:BA:945:A:O2'	10:BA:946:U:H5'	2.02	0.59
10:BA:1279:U:C2'	10:BA:1280:G:H5'	2.32	0.59
12:BC:45:THR:C	12:BC:47:THR:H	2.10	0.59
15:BF:78:ARG:NH1	15:BF:100:GLY:HA3	2.18	0.59
17:BH:18:GLU:OE1	17:BH:67:GLY:HA2	2.02	0.59
19:BJ:38:ILE:CG1	19:BJ:104:PHE:HE2	2.16	0.59
30:BU:76:ARG:HG3	30:BU:99:GLY:CA	2.32	0.59
1:A1:24:ILE:HD12	1:A1:24:ILE:N	2.18	0.58
2:A2:154:THR:C	2:A2:156:ALA:N	2.59	0.58
3:A3:95:THR:CG2	3:A3:96:ALA:H	2.16	0.58
6:A6:17:ASN:O	6:A6:20:LYS:N	2.30	0.58
10:AA:77:G:H2'	10:AA:78:C:H6	1.66	0.58
10:AA:86:C:C2'	10:AA:87:G:H5'	2.33	0.58
10:AA:89:A:O2'	32:AW:4:GLY:HA3	2.02	0.58
10:AA:536:C:O2'	10:AA:537:A:OP1	2.20	0.58
10:AA:734:U:O2	10:AA:782:A:C2	2.56	0.58
10:AA:1172:G:H4'	10:AA:1173:G:C5'	2.29	0.58
10:AA:1653:C:H5'	34:AY:65:GLN:NE2	2.17	0.58
11:AB:2:ALA:HB3	11:AB:6:LYS:HD3	1.85	0.58
14:AE:39:TYR:O	14:AE:41:LYS:HG3	2.03	0.58
16:AG:26:ASP:OD1	16:AG:28:CYS:HB3	2.01	0.58
31:AV:98:ILE:HG23	31:AV:102:THR:CG2	2.32	0.58
31:AV:112:GLN:HE21	31:AV:113:ASN:HD22	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:136:THR:HG22	2:B2:138:LEU:HG	1.84	0.58
10:BA:133:A:H61	10:BA:169:G:H2'	1.68	0.58
10:BA:271:U:H2'	10:BA:271:U:O2	2.03	0.58
10:BA:506:U:OP2	13:BD:169:GLU:CG	2.49	0.58
10:BA:1064:A:H4'	10:BA:1065:A:OP1	2.01	0.58
10:BA:1299:C:O2'	12:BC:162:CYS:HB2	2.02	0.58
10:BA:1629:G:H1	10:BA:1696:U:H3	1.51	0.58
12:BC:213:VAL:O	12:BC:213:VAL:HG12	2.02	0.58
13:BD:116:LEU:C	13:BD:118:LEU:H	2.10	0.58
14:BE:81:VAL:HG11	14:BE:84:ILE:HD11	1.85	0.58
17:BH:28:ARG:HB3	17:BH:29:PRO:CD	2.33	0.58
28:BS:83:THR:HG23	28:BS:85:TYR:N	2.18	0.58
34:BY:107:ARG:HG3	34:BY:108:VAL:HG23	1.85	0.58
2:A2:136:THR:HG22	2:A2:138:LEU:HG	1.84	0.58
2:A2:166:GLN:NE2	2:A2:173:LEU:HD23	2.18	0.58
4:A4:36:ALA:HB2	4:A4:101:THR:HB	1.85	0.58
5:A5:46:ASP:HB2	5:A5:47:PRO:CD	2.28	0.58
9:A9:88:HIS:NE2	10:AA:1220:C:OP1	2.36	0.58
10:AA:72:G:C8	10:AA:72:G:C3'	2.86	0.58
10:AA:249:A:H5'	32:AW:134:GLY:HA2	1.83	0.58
10:AA:341:G:O2'	10:AA:342:U:P	2.61	0.58
10:AA:611:U:O2'	10:AA:612:U:H5'	2.03	0.58
10:AA:840:A:O2'	10:AA:841:A:P	2.61	0.58
10:AA:905:C:O2	20:AK:138:ASP:CB	2.46	0.58
10:AA:1157:U:O2'	10:AA:1158:U:P	2.60	0.58
10:AA:1230:U:H2'	10:AA:1231:C:H6	1.68	0.58
10:AA:1260:G:C2'	10:AA:1261:U:H5'	2.32	0.58
10:AA:1475:G:H5"	29:AT:100:HIS:CD2	2.37	0.58
10:AA:1511:A:O2'	10:AA:1512:G:H5'	2.04	0.58
10:AA:1514:G:O2'	10:AA:1515:A:H8	1.86	0.58
10:AA:1531:G:H2'	10:AA:1532:U:OP1	2.04	0.58
10:AA:1536:U:H2'	10:AA:1537:C:H6	1.68	0.58
10:AA:1715:A:H3'	10:AA:1715:A:C8	2.38	0.58
12:AC:38:ALA:CB	12:AC:94:ILE:HD11	2.32	0.58
12:AC:161:ILE:HD12	12:AC:170:TYR:HB2	1.85	0.58
13:AD:12:TYR:OH	13:AD:40:ARG:HB3	2.03	0.58
15:AF:48:MET:HE1	15:AF:59:ALA:HB1	1.85	0.58
17:AH:94:LEU:HD11	17:AH:102:VAL:CG2	2.33	0.58
20:AK:45:THR:HG22	20:AK:49:GLY:HA2	1.85	0.58
20:AK:121:ARG:HG3	20:AK:122:SER:H	1.66	0.58
22:AM:93:LYS:HA	22:AM:93:LYS:CE	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AU:28:GLY:O	30:AU:32:VAL:HG23	2.02	0.58
32:AW:212:VAL:HG23	32:AW:220:PHE:CB	2.33	0.58
33:AX:34:ARG:HB3	33:AX:34:ARG:HH11	1.64	0.58
34:AY:179:ILE:O	34:AY:180:GLN:C	2.46	0.58
3:B3:13:THR:H	3:B3:16:GLU:HB2	1.68	0.58
4:B4:124:ILE:CG2	4:B4:167:VAL:HG13	2.33	0.58
4:B4:214:GLN:O	4:B4:215:ASN:C	2.46	0.58
7:B7:47:ARG:CB	7:B7:50:LYS:HE2	2.32	0.58
10:BA:65:C:C5	34:BY:177:PRO:HB3	2.38	0.58
10:BA:271:U:H4'	10:BA:272:U:C5'	2.32	0.58
10:BA:570:G:C4'	10:BA:574:A:C2	2.85	0.58
10:BA:670:G:C2'	10:BA:671:A:H5'	2.34	0.58
10:BA:734:U:C2	10:BA:735:G:N7	2.71	0.58
10:BA:734:U:O2	10:BA:782:A:C2	2.56	0.58
10:BA:840:A:H2'	10:BA:941:A:N6	2.17	0.58
10:BA:929:A:C2'	10:BA:930:A:H5'	2.33	0.58
10:BA:1495:U:O2'	10:BA:1496:A:O5'	2.21	0.58
10:BA:1514:G:H5'	29:BT:90:GLY:HA3	1.84	0.58
12:BC:126:ILE:HG21	12:BC:157:GLN:HG3	1.85	0.58
13:BD:108:ARG:HH22	13:BD:126:ARG:HH22	1.51	0.58
24:BO:107:ASN:C	24:BO:109:LYS:H	2.11	0.58
27:BR:193:ASP:OD2	27:BR:195:ARG:HB2	2.03	0.58
2:A2:121:TYR:HD2	2:A2:129:LEU:HD11	1.67	0.58
3:A3:79:LYS:HA	3:A3:82:ILE:HD12	1.86	0.58
3:A3:142:ARG:HH21	17:AH:51:GLU:HB2	1.68	0.58
10:AA:201:A:C2'	10:AA:202:U:H5'	2.33	0.58
10:AA:359:U:H2'	10:AA:360:U:H5'	1.85	0.58
10:AA:420:A:N3	10:AA:432:U:O2'	2.35	0.58
10:AA:529:C:C4	10:AA:530:G:N7	2.71	0.58
10:AA:648:U:C5'	10:AA:649:U:OP2	2.48	0.58
10:AA:755:G:H8	10:AA:755:G:O5'	1.86	0.58
10:AA:873:G:H22	20:AK:55:ARG:NH2	2.01	0.58
10:AA:1013:G:O2'	10:AA:1014:A:H5'	2.03	0.58
10:AA:1171:G:OP2	23:AN:40:ARG:NH2	2.36	0.58
11:AB:64:GLN:HG2	14:AE:245:SER:CB	2.32	0.58
11:AB:119:ILE:HD12	11:AB:119:ILE:N	2.18	0.58
12:AC:10:LYS:HE3	19:AJ:86:LYS:HZ2	1.69	0.58
12:AC:146:LYS:O	12:AC:147:GLN:HB3	2.03	0.58
12:AC:196:GLU:HG3	12:AC:203:PHE:HB2	1.84	0.58
13:AD:17:ARG:NH2	14:AE:183:PRO:HD3	2.11	0.58
13:AD:118:LEU:HD11	13:AD:158:PHE:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:129:ILE:N	13:AD:129:ILE:HD13	2.19	0.58
14:AE:39:TYR:CE2	14:AE:251:LYS:HG3	2.39	0.58
14:AE:159:ILE:HG22	14:AE:160:THR:N	2.18	0.58
18:AI:111:LEU:HD22	18:AI:118:LEU:HD13	1.84	0.58
27:AR:51:VAL:HB	27:AR:72:LEU:HD12	1.84	0.58
6:B6:24:GLN:HE22	17:BH:57:ARG:HH12	1.50	0.58
6:B6:45:PHE:CE2	6:B6:47:ASN:HB2	2.38	0.58
10:BA:125:U:C4'	10:BA:126:A:H5"	2.22	0.58
10:BA:347:G:O2'	10:BA:348:G:H5'	2.03	0.58
10:BA:371:U:O2	10:BA:371:U:C2'	2.51	0.58
10:BA:454:C:H2'	10:BA:455:C:H5'	1.85	0.58
10:BA:1300:G:H5'	12:BC:162:CYS:HB2	1.85	0.58
12:BC:41:GLU:HG3	12:BC:54:LYS:HE2	1.86	0.58
14:BE:39:TYR:CE2	14:BE:251:LYS:HE3	2.38	0.58
14:BE:205:THR:HG23	14:BE:211:PHE:CE1	2.39	0.58
20:BK:77:ALA:O	20:BK:81:VAL:HG23	2.02	0.58
21:BL:47:HIS:ND1	21:BL:104:ALA:HB2	2.17	0.58
25:BP:49:ASP:OD1	25:BP:51:ARG:HG2	2.03	0.58
32:BW:37:LYS:NZ	32:BW:37:LYS:HB3	2.19	0.58
35:BZ:53:GLU:OE1	35:BZ:63:SER:HB2	2.03	0.58
1:A1:63:GLU:HG2	1:A1:63:GLU:O	2.02	0.58
4:A4:34:PHE:HE1	4:A4:89:LEU:HD12	1.67	0.58
10:AA:74:A:H1'	34:AY:179:ILE:CD1	2.33	0.58
10:AA:271:U:H2'	10:AA:271:U:O2	2.02	0.58
10:AA:630:A:C2'	10:AA:631:C:H5"	2.32	0.58
10:AA:796:U:H3'	10:AA:797:A:O4'	2.03	0.58
10:AA:958:G:H4'	10:AA:1729:A:H4'	1.86	0.58
10:AA:1265:U:H2'	10:AA:1266:G:H8	1.68	0.58
10:AA:1358:A:O2'	10:AA:1359:C:OP2	2.21	0.58
11:AB:168:SER:HB2	11:AB:198:PHE:CB	2.33	0.58
12:AC:170:TYR:CG	12:AC:205:VAL:HG21	2.38	0.58
13:AD:55:ALA:O	13:AD:59:LEU:HG	2.03	0.58
13:AD:108:ARG:HH22	13:AD:126:ARG:HH22	1.50	0.58
14:AE:58:PRO:HG2	14:AE:59:GLU:OE1	2.03	0.58
22:AM:28:THR:OG1	22:AM:29:PRO:HD3	2.04	0.58
27:AR:127:SER:HA	27:AR:170:TYR:CD2	2.38	0.58
27:AR:134:LEU:HG	27:AR:142:ILE:CG2	2.33	0.58
27:AR:277:GLY:HA3	27:AR:294:ILE:HA	1.85	0.58
32:AW:108:LYS:CG	32:AW:110:ARG:HH21	2.16	0.58
32:AW:117:SER:OG	32:AW:119:GLU:HB2	2.04	0.58
34:AY:16:ILE:HD13	34:AY:45:PHE:HZ	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:12:MET:CB	1:B1:28:ARG:HG2	2.25	0.58
2:B2:14:THR:HG22	2:B2:14:THR:O	2.03	0.58
2:B2:194:LYS:HE2	26:BQ:4:GLN:NE2	2.18	0.58
3:B3:105:VAL:HG21	10:BA:676:C:OP2	2.03	0.58
8:B8:87:MET:HE2	8:B8:93:VAL:HG21	1.84	0.58
10:BA:1368:A:O2'	10:BA:1370:U:OP2	2.22	0.58
10:BA:1716:A:OP2	10:BA:1721:G:P	2.62	0.58
13:BD:69:ARG:HH21	13:BD:92:LYS:NZ	1.99	0.58
14:BE:138:VAL:HG11	14:BE:220:ALA:CB	2.33	0.58
16:BG:83:LEU:HD23	16:BG:83:LEU:C	2.28	0.58
24:BO:48:THR:HB	24:BO:51:GLN:HG3	1.85	0.58
29:BT:18:PHE:O	29:BT:21:GLU:HB2	2.04	0.58
30:BU:13:ALA:HB2	30:BU:82:TYR:CD1	2.38	0.58
32:BW:127:LYS:HZ3	32:BW:186:GLN:HE22	1.49	0.58
32:BW:205:GLY:O	32:BW:206:SER:CB	2.51	0.58
34:BY:132:LYS:HZ3	34:BY:163:ARG:CB	2.17	0.58
7:A7:47:ARG:CB	7:A7:50:LYS:HE2	2.33	0.58
9:A9:128:HIS:HE1	10:AA:1222:U:H1'	1.69	0.58
9:A9:129:TYR:HD1	9:A9:154:UNK:HG1	1.68	0.58
10:AA:147:G:H5"	34:AY:15:CYS:SG	2.43	0.58
10:AA:1608:C:N3	10:AA:1610:G:C2	2.72	0.58
11:AB:180:ILE:HG22	35:AZ:58:GLY:O	2.04	0.58
13:AD:132:ARG:C	13:AD:134:ILE:H	2.11	0.58
15:AF:23:VAL:HG21	15:AF:78:ARG:HD3	1.85	0.58
16:AG:34:ALA:CB	16:AG:62:PRO:HA	2.33	0.58
22:AM:29:PRO:HA	22:AM:32:LEU:HD12	1.85	0.58
23:AN:4:LYS:HD2	23:AN:6:TRP:HE1	1.69	0.58
25:AP:49:ASP:OD1	25:AP:51:ARG:HG2	2.04	0.58
31:AV:41:VAL:HG11	31:AV:47:ARG:HB2	1.85	0.58
31:AV:46:LEU:O	31:AV:46:LEU:HD23	2.03	0.58
2:B2:105:VAL:HG12	2:B2:107:ASN:H	1.68	0.58
10:BA:529:C:C4	10:BA:530:G:N7	2.72	0.58
10:BA:537:A:HO2'	10:BA:538:A:P	2.27	0.58
10:BA:1019:G:N2	10:BA:1020:G:C2	2.71	0.58
10:BA:1378:U:O2'	10:BA:1379:G:H5'	2.03	0.58
11:BB:2:ALA:HB1	35:BZ:97:GLU:HG2	1.86	0.58
11:BB:56:ALA:O	11:BB:59:VAL:HG12	2.04	0.58
13:BD:12:TYR:OH	13:BD:40:ARG:HB3	2.03	0.58
13:BD:40:ARG:CG	13:BD:41:GLU:H	2.02	0.58
13:BD:128:LEU:C	13:BD:130:ARG:H	2.10	0.58
14:BE:39:TYR:CE2	14:BE:251:LYS:HG3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BF:23:VAL:CG2	15:BF:78:ARG:HD3	2.33	0.58
19:BJ:32:GLU:HA	19:BJ:32:GLU:OE1	2.03	0.58
24:BO:104:LEU:HD21	24:BO:113:SER:HB3	1.85	0.58
25:BP:18:ARG:NH2	25:BP:20:GLN:NE2	2.52	0.58
27:BR:334:ARG:HH11	27:BR:334:ARG:HG3	1.67	0.58
32:BW:207:PHE:CE2	32:BW:223:ARG:HD3	2.38	0.58
2:A2:196:LEU:HG	2:A2:200:ILE:HD11	1.85	0.58
4:A4:123:LEU:HD12	4:A4:124:ILE:N	2.18	0.58
5:A5:42:ARG:HB3	5:A5:69:LEU:HB3	1.84	0.58
8:A8:30:TRP:CH2	15:BF:84:PHE:HZ	2.21	0.58
10:AA:15:U:H2'	10:AA:16:G:O4'	2.03	0.58
10:AA:215:A:N6	10:AA:822:U:H1'	2.19	0.58
10:AA:337:G:H2'	10:AA:338:G:H8	1.68	0.58
10:AA:734:U:C2	10:AA:735:G:N7	2.72	0.58
10:AA:894:U:H3	20:AK:55:ARG:NH1	2.02	0.58
10:AA:1244:U:H3	10:AA:1409:G:H1	1.52	0.58
10:AA:1473:G:H22	10:AA:1475:G:H3'	1.68	0.58
10:AA:1701:C:C2'	10:AA:1702:A:H5'	2.33	0.58
10:AA:1728:U:H3	10:AA:1739:G:H1	1.51	0.58
13:AD:96:VAL:O	13:AD:99:LEU:HG	2.03	0.58
13:AD:100:THR:HG21	13:AD:102:HIS:HB3	1.86	0.58
18:AI:32:LYS:HE3	18:AI:35:GLY:HA2	1.86	0.58
19:AJ:38:ILE:CG1	19:AJ:104:PHE:HE2	2.16	0.58
25:AP:56:TYR:CD1	25:AP:56:TYR:C	2.81	0.58
32:AW:205:GLY:O	32:AW:206:SER:CB	2.52	0.58
2:B2:43:THR:O	2:B2:44:THR:CB	2.52	0.58
3:B3:14:LYS:O	3:B3:18:GLN:HG3	2.04	0.58
3:B3:192:PHE:CE1	6:B6:14:LYS:HA	2.37	0.58
10:BA:157:G:O5'	10:BA:157:G:H8	1.87	0.58
10:BA:533:G:O2'	10:BA:534:A:C5'	2.51	0.58
10:BA:670:G:O2'	10:BA:671:A:H5'	2.02	0.58
10:BA:747:G:N2	10:BA:755:G:C6	2.72	0.58
10:BA:786:A:O2'	10:BA:787:A:OP1	2.20	0.58
10:BA:1086:G:C2'	10:BA:1087:U:OP2	2.50	0.58
10:BA:1158:U:OP1	10:BA:1427:C:O2'	2.17	0.58
10:BA:1403:U:O2'	10:BA:1404:G:OP2	2.17	0.58
11:BB:188:ASP:O	11:BB:189:GLU:O	2.21	0.58
14:BE:39:TYR:HE2	14:BE:251:LYS:HE3	1.67	0.58
16:BG:163:SER:HB3	16:BG:166:GLU:HG3	1.85	0.58
20:BK:121:ARG:HG3	20:BK:122:SER:H	1.67	0.58
22:BM:125:LEU:HD23	22:BM:129:TRP:HE1	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BS:36:ASP:O	28:BS:39:ALA:HB3	2.03	0.58
30:BU:28:GLY:O	30:BU:32:VAL:HG23	2.04	0.58
30:BU:46:VAL:CG1	30:BU:56:VAL:HG13	2.33	0.58
33:BX:38:ARG:HG2	33:BX:42:ASN:HD21	1.69	0.58
1:A1:54:VAL:HB	16:AG:28:CYS:HA	1.86	0.58
4:A4:214:GLN:O	4:A4:215:ASN:C	2.47	0.58
10:AA:424:A:O2'	10:AA:425:A:H5'	2.04	0.58
13:AD:26:ASN:O	13:AD:29:LYS:HG3	2.04	0.58
22:AM:14:ILE:HG23	22:AM:22:ILE:HG23	1.85	0.58
23:AN:33:TYR:O	23:AN:34:GLU:CB	2.52	0.58
26:AQ:125:GLY:O	26:AQ:136:PHE:HD1	1.86	0.58
27:AR:334:ARG:HG3	27:AR:334:ARG:HH11	1.68	0.58
29:AT:18:PHE:O	29:AT:21:GLU:HB2	2.04	0.58
30:AU:13:ALA:HB2	30:AU:82:TYR:CD1	2.39	0.58
31:AV:103:LYS:HD2	31:AV:118:VAL:HG11	1.86	0.58
35:AZ:61:THR:O	35:AZ:63:SER:N	2.36	0.58
1:B1:65:ARG:HH21	1:B1:67:LEU:HD12	1.69	0.58
6:B6:34:LYS:HE2	6:B6:41:ILE:CD1	2.33	0.58
7:B7:25:LYS:HE3	7:B7:27:ASP:HB3	1.85	0.58
7:B7:40:LEU:O	7:B7:44:ILE:HG13	2.03	0.58
10:BA:1018:G:H8	10:BA:1018:G:H5'	1.67	0.58
18:BI:13:GLY:HA2	18:BI:85:GLN:HE21	1.68	0.58
19:BJ:45:THR:HB	19:BJ:48:VAL:CG2	2.33	0.58
22:BM:41:ARG:HE	29:BT:41:THR:HG22	1.68	0.58
24:BO:117:LEU:HD23	24:BO:117:LEU:C	2.29	0.58
30:BU:86:PHE:HB3	30:BU:97:VAL:HG23	1.86	0.58
33:BX:34:ARG:HB3	33:BX:34:ARG:HH11	1.66	0.58
34:BY:130:PRO:O	34:BY:131:ARG:C	2.45	0.58
4:A4:166:GLN:O	4:A4:169:ALA:HB3	2.04	0.58
9:A9:98:LEU:HD23	9:A9:100:PHE:CE1	2.38	0.58
10:AA:80:A:O2'	10:AA:81:A:H5'	2.04	0.58
10:AA:271:U:H4'	10:AA:272:U:C5'	2.33	0.58
10:AA:419:C:O2'	10:AA:420:A:H5'	2.02	0.58
10:AA:537:A:HO2'	10:AA:538:A:P	2.27	0.58
10:AA:757:C:N4	10:AA:770:G:C4	2.72	0.58
10:AA:1278:C:N4	10:AA:1290:G:H1	1.99	0.58
10:AA:1716:A:C3'	10:AA:1717:C:H5"	2.33	0.58
11:AB:156:VAL:HG23	35:AZ:80:HIS:CB	2.32	0.58
12:AC:83:SER:C	12:AC:85:ASP:H	2.10	0.58
16:AG:51:TYR:CE2	16:AG:61:CYS:HA	2.39	0.58
17:AH:76:SER:CB	17:AH:77:PRO:CD	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AI:43:PRO:O	18:AI:45:ILE:N	2.36	0.58
25:AP:82:LYS:HD2	25:AP:83:TYR:HE1	1.69	0.58
27:AR:183:PHE:C	27:AR:183:PHE:CD1	2.81	0.58
27:AR:250:ARG:NH2	27:AR:286:GLN:HA	2.18	0.58
28:AS:82:LYS:HB3	28:AS:107:PHE:CE2	2.39	0.58
30:AU:102:SER:C	30:AU:103:LEU:HD23	2.29	0.58
32:AW:122:LYS:HG3	32:AW:167:VAL:CG2	2.34	0.58
1:B1:24:ILE:HD12	1:B1:24:ILE:N	2.18	0.58
10:BA:5:U:OP2	14:BE:205:THR:HB	2.04	0.58
10:BA:15:U:H2'	10:BA:16:G:O4'	2.03	0.58
10:BA:80:A:O2'	10:BA:81:A:H5'	2.03	0.58
10:BA:1052:U:H2'	10:BA:1052:U:O2	2.04	0.58
10:BA:1139:G:C2	10:BA:1140:U:C4	2.91	0.58
12:BC:122:ALA:HA	12:BC:125:ILE:HD13	1.85	0.58
13:BD:65:LYS:HA	13:BD:70:LEU:HD21	1.85	0.58
13:BD:94:ASP:CB	14:BE:149:ILE:HD11	2.32	0.58
14:BE:107:ASP:OD1	14:BE:111:HIS:HB2	2.04	0.58
18:BI:129:LYS:O	18:BI:130:LYS:HG3	2.03	0.58
21:BL:78:ASN:ND2	21:BL:80:LYS:CG	2.66	0.58
31:BV:103:LYS:HD2	31:BV:118:VAL:HG11	1.85	0.58
2:A2:23:LYS:HE3	10:AA:382:A:OP2	2.04	0.58
2:A2:43:THR:O	2:A2:44:THR:CB	2.52	0.58
3:A3:138:GLY:N	3:A3:154:GLN:HB2	2.19	0.58
5:A5:45:VAL:HG21	5:A5:53:ILE:HD12	1.84	0.58
7:A7:52:ARG:HB2	7:A7:54:PHE:HE1	1.67	0.58
10:AA:63:U:O2'	10:AA:162:A:H1'	2.04	0.58
10:AA:149:U:H4'	34:AY:59:ASP:HA	1.86	0.58
10:AA:235:A:H3'	10:AA:814:A:OP2	2.04	0.58
10:AA:435:C:O2'	10:AA:436:C:H5'	2.03	0.58
10:AA:447:C:O2	10:AA:447:C:C2'	2.51	0.58
10:AA:498:C:O2'	10:AA:499:A:OP1	2.20	0.58
10:AA:859:A:C8	10:AA:859:A:H5'	2.39	0.58
11:AB:5:ARG:HG2	11:AB:187:LYS:NZ	2.18	0.58
11:AB:89:THR:HB	11:AB:91:CYS:SG	2.44	0.58
12:AC:118:VAL:O	12:AC:121:ALA:HB3	2.04	0.58
13:AD:29:LYS:C	13:AD:29:LYS:HD2	2.28	0.58
16:AG:170:ASP:HA	16:AG:173:ILE:HD12	1.85	0.58
21:AL:56:ILE:HG22	21:AL:57:GLY:N	2.18	0.58
24:AO:48:THR:HB	24:AO:51:GLN:HG3	1.84	0.58
24:AO:143:TYR:HA	24:AO:147:THR:CG2	2.34	0.58
32:AW:43:PRO:HG2	32:AW:46:VAL:CG2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:89:MET:HE1	32:AW:238:ILE:HD13	1.84	0.58
1:B1:58:MET:O	1:B1:59:GLU:HB2	2.02	0.58
2:B2:84:THR:CG2	2:B2:113:ASP:HB3	2.34	0.58
2:B2:87:LEU:HB3	2:B2:111:GLU:HB2	1.86	0.58
6:B6:57:CYS:SG	6:B6:58:SER:N	2.73	0.58
7:B7:90:LYS:HB2	12:BC:74:GLN:HE22	1.68	0.58
10:BA:206:U:H5"	26:BQ:20:LYS:HD2	1.85	0.58
10:BA:865:A:H2'	10:BA:866:U:C6	2.39	0.58
12:BC:215:ILE:HA	31:BV:39:ALA:HB2	1.85	0.58
14:BE:99:PHE:O	14:BE:118:VAL:HA	2.04	0.58
27:BR:58:GLU:HA	27:BR:58:GLU:OE1	2.03	0.58
27:BR:250:ARG:NH2	27:BR:286:GLN:HA	2.19	0.58
32:BW:88:LEU:CD1	32:BW:104:LEU:HD23	2.34	0.58
2:A2:35:MET:HG2	2:A2:103:THR:HG23	1.84	0.58
5:A5:10:ARG:HH11	5:A5:12:GLN:NE2	2.01	0.58
10:AA:347:G:O2'	10:AA:348:G:H5'	2.04	0.58
10:AA:495:C:C2'	10:AA:496:G:H5'	2.34	0.58
10:AA:527:A:H2'	10:AA:528:G:C8	2.39	0.58
10:AA:553:A:O2'	10:AA:554:U:OP2	2.19	0.58
10:AA:628:G:H4'	17:AH:4:VAL:HG12	1.86	0.58
10:AA:1018:G:O2'	10:AA:1019:G:H5'	2.03	0.58
10:AA:1228:A:H5'	10:AA:1229:U:OP1	2.04	0.58
10:AA:1256:C:O2'	10:AA:1257:U:P	2.62	0.58
10:AA:1585:U:H5	16:AG:52:GLN:NE2	2.02	0.58
18:AI:4:GLN:O	18:AI:5:LYS:HB3	2.02	0.58
20:AK:22:GLY:C	20:AK:24:ASN:H	2.11	0.58
22:AM:146:VAL:CG1	22:AM:147:VAL:H	2.04	0.58
24:AO:117:LEU:HD23	24:AO:117:LEU:C	2.29	0.58
29:AT:15:ALA:HB2	29:AT:66:ARG:NE	2.18	0.58
2:B2:148:GLN:OE1	10:BA:189:C:H1'	2.03	0.58
4:B4:48:THR:CG2	4:B4:49:LEU:H	2.09	0.58
4:B4:116:MET:CE	4:B4:215:ASN:HB3	2.34	0.58
4:B4:162:ALA:O	4:B4:163:LYS:C	2.47	0.58
10:BA:168:U:H2'	10:BA:169:G:O4'	2.03	0.58
10:BA:420:A:N3	10:BA:432:U:O2'	2.33	0.58
10:BA:843:A:H2'	10:BA:844:G:H8	1.69	0.58
10:BA:1253:G:H5"	19:BJ:76:THR:OG1	2.03	0.58
15:BF:48:MET:HE1	15:BF:59:ALA:HB1	1.86	0.58
18:BI:49:LYS:HA	18:BI:52:GLU:HG3	1.86	0.58
20:BK:27:VAL:HG21	20:BK:89:LYS:O	2.04	0.58
27:BR:183:PHE:C	27:BR:183:PHE:CD1	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:84:THR:CG2	2:A2:113:ASP:HB3	2.34	0.57
4:A4:31:TRP:CE3	20:AK:18:PRO:HD3	2.39	0.57
5:A5:85:VAL:O	5:A5:85:VAL:HG12	2.03	0.57
8:A8:45:ILE:HD11	8:A8:79:LEU:CD2	2.33	0.57
9:A9:142:LYS:HE2	9:A9:147:UNK:CB	2.34	0.57
10:AA:392:A:N7	10:AA:395:G:C5	2.72	0.57
10:AA:501:U:H5'	10:AA:501:U:C6	2.39	0.57
10:AA:623:U:H3	10:AA:948:A:H62	1.49	0.57
10:AA:771:A:H5"	10:AA:772:A:C5'	2.34	0.57
10:AA:798:G:N3	10:AA:799:G:C8	2.72	0.57
10:AA:1072:G:C4'	10:AA:1073:G:OP1	2.45	0.57
10:AA:1430:C:C5'	22:AM:138:THR:HG21	2.27	0.57
10:AA:1551:U:H1'	18:AI:141:GLN:NE2	2.17	0.57
12:AC:228:ARG:HH21	27:AR:243:LEU:HD22	1.68	0.57
24:AO:107:ASN:O	24:AO:109:LYS:N	2.36	0.57
25:AP:18:ARG:CZ	25:AP:20:GLN:HE21	2.17	0.57
27:AR:252:PHE:HB3	27:AR:281:PHE:HE2	1.69	0.57
1:B1:18:THR:CG2	1:B1:19:GLY:H	2.06	0.57
1:B1:62:ARG:O	1:B1:63:GLU:CB	2.52	0.57
4:B4:226:ARG:O	4:B4:226:ARG:HG3	2.04	0.57
10:BA:159:G:O2'	10:BA:160:C:H5'	2.03	0.57
10:BA:400:U:H5'	10:BA:1685:A:O2'	2.03	0.57
10:BA:859:A:C5'	10:BA:859:A:C8	2.87	0.57
10:BA:906:U:C2'	10:BA:907:A:OP2	2.51	0.57
10:BA:1027:U:H2'	10:BA:1028:G:C5'	2.34	0.57
10:BA:1171:G:C8	23:BN:39:ARG:NH1	2.71	0.57
10:BA:1558:A:C4	10:BA:1583:A:C6	2.92	0.57
10:BA:1679:A:H2'	10:BA:1680:A:C8	2.38	0.57
10:BA:1701:C:H2'	10:BA:1702:A:H5'	1.86	0.57
10:BA:1748:U:O2'	10:BA:1749:C:OP1	2.22	0.57
11:BB:99:TRP:CH2	11:BB:104:LEU:HG	2.36	0.57
14:BE:247:PHE:C	14:BE:249:HIS:H	2.12	0.57
20:BK:78:ALA:HB1	20:BK:119:LEU:HD13	1.86	0.57
20:BK:106:LYS:HZ3	20:BK:135:ILE:HG23	1.69	0.57
27:BR:91:ALA:HB2	27:BR:105:LEU:HD11	1.84	0.57
27:BR:314:SER:O	27:BR:326:ALA:HA	2.03	0.57
29:BT:116:ILE:HA	29:BT:136:GLY:HA3	1.84	0.57
30:BU:35:THR:HG22	30:BU:41:ALA:HB2	1.84	0.57
1:A1:58:MET:O	1:A1:59:GLU:HB2	2.04	0.57
2:A2:87:LEU:HD21	2:A2:171:ARG:NH1	2.18	0.57
6:A6:31:MET:CE	6:A6:71:ILE:HD11	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:45:PHE:CE2	24:AO:57:ARG:HD3	2.39	0.57
10:AA:70:U:O4'	34:AY:173:ARG:NH1	2.36	0.57
10:AA:683:A:H2'	10:AA:684:A:O4'	2.04	0.57
10:AA:1398:A:OP2	10:AA:1398:A:H4'	2.04	0.57
14:AE:41:LYS:C	14:AE:42:ILE:HG23	2.29	0.57
20:AK:27:VAL:O	20:AK:92:ALA:HB3	2.03	0.57
21:AL:52:VAL:HG13	21:AL:71:VAL:HG13	1.84	0.57
23:AN:20:CYS:O	23:AN:21:ARG:C	2.47	0.57
27:AR:24:VAL:O	27:AR:313:THR:HB	2.03	0.57
28:AS:91:ILE:O	28:AS:94:LEU:HB2	2.03	0.57
30:AU:89:ASN:HD22	30:AU:90:ALA:H	1.48	0.57
32:AW:222:THR:HG23	32:AW:223:ARG:N	2.19	0.57
34:AY:70:ARG:HH21	34:AY:104:PRO:CD	2.16	0.57
2:B2:87:LEU:HD21	2:B2:171:ARG:NH1	2.19	0.57
4:B4:116:MET:O	4:B4:117:ILE:HG12	2.04	0.57
6:B6:48:ALA:N	6:B6:69:VAL:HG21	2.18	0.57
10:BA:66:A:C2'	10:BA:67:G:H5'	2.32	0.57
10:BA:460:A:N6	10:BA:589:G:C8	2.72	0.57
10:BA:495:C:C2'	10:BA:496:G:H5'	2.34	0.57
10:BA:552:C:H4'	33:BX:66:LYS:CE	2.32	0.57
10:BA:611:U:O2'	10:BA:612:U:H5'	2.03	0.57
10:BA:721:A:H2'	10:BA:722:A:H8	1.68	0.57
10:BA:865:A:H5"	20:BK:134:PRO:HB2	1.86	0.57
12:BC:10:LYS:HE3	19:BJ:86:LYS:HZ2	1.69	0.57
12:BC:36:GLY:O	12:BC:55:ALA:CA	2.52	0.57
12:BC:77:GLN:O	12:BC:81:GLY:HA3	2.03	0.57
12:BC:84:ASP:C	12:BC:86:GLN:N	2.62	0.57
13:BD:129:ILE:CG2	13:BD:134:ILE:HD12	2.29	0.57
18:BI:112:MET:HA	18:BI:112:MET:CE	2.35	0.57
21:BL:37:ARG:HG2	21:BL:44:GLY:HA2	1.86	0.57
22:BM:121:SER:HA	28:BS:123:GLU:O	2.04	0.57
26:BQ:117:LYS:HZ1	26:BQ:144:ASN:C	2.12	0.57
27:BR:297:GLU:HA	27:BR:300:THR:OG1	2.04	0.57
31:BV:35:LEU:HD23	31:BV:35:LEU:C	2.29	0.57
3:A3:43:THR:HG21	3:A3:97:GLN:HG2	1.86	0.57
8:A8:30:TRP:C	8:A8:30:TRP:HD1	2.09	0.57
10:AA:168:U:H2'	10:AA:169:G:O4'	2.04	0.57
10:AA:430:A:O2'	10:AA:457:G:N2	2.37	0.57
10:AA:674:U:H5'	10:AA:675:A:OP2	2.05	0.57
10:AA:849:A:C4	10:AA:935:G:N2	2.72	0.57
10:AA:879:G:OP2	20:AK:39:ASP:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1501:C:H2'	10:AA:1502:A:H8	1.69	0.57
10:AA:1653:C:H2'	10:AA:1654:U:O4'	2.04	0.57
11:AB:51:GLN:HE22	35:AZ:95:ILE:N	2.02	0.57
12:AC:215:ILE:HA	31:AV:39:ALA:CB	2.34	0.57
12:AC:228:ARG:NH2	27:AR:243:LEU:HD22	2.19	0.57
14:AE:159:ILE:HD13	14:AE:222:THR:HA	1.85	0.57
18:AI:57:LEU:CD2	18:AI:107:ILE:HG23	2.34	0.57
25:AP:13:ASN:ND2	32:AW:54:TYR:O	2.37	0.57
27:AR:111:TYR:CD1	27:AR:112:LYS:HG2	2.39	0.57
34:AY:63:MET:HA	34:AY:98:ARG:O	2.04	0.57
8:B8:31:THR:O	8:B8:32:LYS:C	2.47	0.57
10:BA:164:U:O2'	10:BA:165:A:OP1	2.18	0.57
10:BA:1531:G:C4	22:BM:134:ARG:HD2	2.40	0.57
10:BA:1555:A:HO2'	10:BA:1556:G:P	2.26	0.57
10:BA:1608:C:N3	10:BA:1610:G:C2	2.71	0.57
11:BB:119:ILE:HD12	11:BB:119:ILE:N	2.19	0.57
11:BB:196:ASP:OD1	31:BV:89:SER:HA	2.04	0.57
12:BC:146:LYS:O	12:BC:147:GLN:HB3	2.03	0.57
12:BC:211:ASP:O	12:BC:213:VAL:N	2.37	0.57
18:BI:51:TYR:HA	18:BI:54:ILE:HD12	1.84	0.57
21:BL:71:VAL:HG23	21:BL:86:VAL:CG2	2.34	0.57
28:BS:95:VAL:HG21	28:BS:117:ILE:HD11	1.85	0.57
29:BT:21:GLU:HG3	29:BT:147:ILE:CD1	2.34	0.57
29:BT:34:ILE:HD11	29:BT:58:TYR:HE1	1.70	0.57
30:BU:120:ILE:C	30:BU:122:GLY:H	2.11	0.57
34:BY:137:ARG:HG3	34:BY:181:ARG:HG3	1.86	0.57
2:A2:159:LEU:O	2:A2:160:GLU:O	2.21	0.57
6:A6:48:ALA:N	6:A6:69:VAL:HG21	2.18	0.57
9:A9:129:TYR:HB2	9:A9:154:UNK:CB	2.33	0.57
10:AA:232:G:O2'	10:AA:233:U:H5'	2.04	0.57
10:AA:413:C:H4'	10:AA:414:G:OP2	2.04	0.57
10:AA:516:G:O2'	10:AA:517:U:H5'	2.04	0.57
10:AA:525:U:H5"	25:AP:63:GLY:HA2	1.85	0.57
10:AA:1027:U:H2'	10:AA:1028:G:C5'	2.33	0.57
10:AA:1406:G:O2'	10:AA:1407:A:OP2	2.21	0.57
10:AA:1486:U:O2'	12:AC:9:ASN:N	2.38	0.57
10:AA:1583:A:C2	10:AA:1584:U:C5	2.92	0.57
14:AE:61:ILE:HD12	14:AE:134:LYS:CB	2.31	0.57
16:AG:14:PHE:HE2	16:AG:89:LYS:HA	1.64	0.57
17:AH:111:LEU:HB2	17:AH:116:CYS:SG	2.44	0.57
22:AM:21:ASN:HD21	22:AM:102:SER:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AR:276:GLN:O	27:AR:294:ILE:HG23	2.04	0.57
29:AT:146:GLN:O	29:AT:150:LYS:HG3	2.04	0.57
2:B2:191:LEU:HB3	2:B2:196:LEU:HD13	1.86	0.57
3:B3:13:THR:HG22	3:B3:15:ILE:HD12	1.86	0.57
4:B4:123:LEU:HD12	4:B4:124:ILE:N	2.18	0.57
7:B7:100:ILE:HG22	12:BC:91:ALA:O	2.03	0.57
8:B8:45:ILE:HD11	8:B8:79:LEU:CD2	2.32	0.57
10:BA:513:A:H5'	10:BA:513:A:C8	2.39	0.57
10:BA:1348:U:O2	10:BA:1348:U:H2'	2.03	0.57
10:BA:1376:A:H2'	10:BA:1377:A:H8	1.70	0.57
10:BA:1488:A:HO2'	10:BA:1489:U:P	2.26	0.57
16:BG:47:THR:C	16:BG:49:GLY:N	2.60	0.57
19:BJ:23:LEU:HD22	19:BJ:112:ILE:HG12	1.87	0.57
27:BR:13:LYS:HZ3	27:BR:295:GLU:HB3	1.68	0.57
27:BR:252:PHE:HB3	27:BR:281:PHE:CE2	2.39	0.57
29:BT:19:ILE:HD13	29:BT:63:ALA:HB2	1.86	0.57
29:BT:45:VAL:H	29:BT:100:HIS:CG	2.23	0.57
31:BV:98:ILE:HG23	31:BV:102:THR:HB	1.85	0.57
32:BW:213:LYS:HG2	32:BW:214:ASP:H	1.69	0.57
2:A2:127:ILE:HD11	2:A2:153:ARG:HG3	1.87	0.57
3:A3:103:LYS:HB2	3:A3:104:TRP:CE3	2.39	0.57
3:A3:157:GLN:OE1	3:A3:186:PHE:HB3	2.05	0.57
4:A4:116:MET:O	4:A4:117:ILE:HG12	2.03	0.57
10:AA:132:U:C1'	34:AY:149:LYS:NZ	2.68	0.57
10:AA:141:A:N1	10:AA:162:A:N6	2.52	0.57
10:AA:734:U:N3	10:AA:782:A:C2	2.71	0.57
10:AA:1110:A:O2'	10:AA:1111:A:P	2.62	0.57
10:AA:1608:C:C4	10:AA:1610:G:N3	2.72	0.57
11:AB:172:TRP:HE1	11:AB:191:TRP:HD1	1.50	0.57
13:AD:100:THR:HG22	13:AD:102:HIS:HB3	1.87	0.57
13:AD:116:LEU:C	13:AD:118:LEU:H	2.12	0.57
17:AH:130:TYR:O	17:AH:130:TYR:CD1	2.58	0.57
19:AJ:32:GLU:HA	19:AJ:32:GLU:OE1	2.04	0.57
20:AK:116:LEU:C	20:AK:116:LEU:HD23	2.29	0.57
22:AM:121:SER:HA	28:AS:123:GLU:O	2.05	0.57
27:AR:271:ALA:HB2	27:AR:317:TRP:CZ2	2.40	0.57
29:AT:111:LEU:CD2	29:AT:116:ILE:HD12	2.34	0.57
2:B2:194:LYS:HD3	26:BQ:12:GLN:HE22	1.68	0.57
3:B3:130:LEU:C	3:B3:132:LEU:N	2.61	0.57
10:BA:129:G:H2'	10:BA:130:A:O4'	2.04	0.57
10:BA:413:C:H4'	10:BA:414:G:OP2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:494:A:C2	33:BX:48:HIS:HB3	2.39	0.57
10:BA:500:U:C3'	10:BA:501:U:H5"	2.34	0.57
10:BA:670:G:H8	10:BA:670:G:H5'	1.69	0.57
10:BA:1002:U:C2'	10:BA:1003:A:H5'	2.34	0.57
10:BA:1606:C:H3'	10:BA:1606:C:C6	2.39	0.57
10:BA:1729:A:O2'	10:BA:1730:G:H5'	2.05	0.57
14:BE:39:TYR:O	14:BE:41:LYS:HG3	2.03	0.57
14:BE:159:ILE:HD13	14:BE:222:THR:HA	1.87	0.57
16:BG:34:ALA:H	16:BG:63:ILE:CG1	2.17	0.57
16:BG:64:VAL:O	16:BG:68:ILE:HG13	2.05	0.57
20:BK:99:ALA:O	20:BK:100:LYS:C	2.46	0.57
30:BU:81:GLU:HG3	30:BU:97:VAL:CG2	2.33	0.57
32:BW:212:VAL:HG23	32:BW:220:PHE:CB	2.34	0.57
4:A4:226:ARG:HG3	4:A4:226:ARG:O	2.05	0.57
5:A5:24:THR:HG21	5:A5:73:LEU:CD1	2.35	0.57
8:A8:63:VAL:CG2	16:AG:97:LEU:HB2	2.35	0.57
10:AA:5:U:OP2	14:AE:205:THR:HB	2.04	0.57
10:AA:75:C:O5'	10:AA:75:C:C6	2.56	0.57
10:AA:190:G:H2'	10:AA:191:A:H8	1.69	0.57
10:AA:454:C:H2'	10:AA:455:C:H5'	1.86	0.57
10:AA:1488:A:O2'	10:AA:1489:U:P	2.61	0.57
10:AA:1522:U:H3	10:AA:1533:G:H1	1.52	0.57
10:AA:1657:G:H2'	10:AA:1658:A:C8	2.40	0.57
14:AE:189:LEU:HD13	14:AE:197:ILE:HD11	1.85	0.57
15:AF:17:THR:O	15:AF:95:ASN:HB3	2.04	0.57
17:AH:17:ALA:HA	17:AH:22:LYS:CE	2.35	0.57
25:AP:53:VAL:HG22	25:AP:73:VAL:HG22	1.87	0.57
32:AW:117:SER:O	32:AW:119:GLU:N	2.37	0.57
32:AW:249:THR:HG22	32:AW:251:LEU:H	1.69	0.57
35:AZ:47:VAL:CG1	35:AZ:74:ARG:HD2	2.34	0.57
10:BA:190:G:H2'	10:BA:191:A:H8	1.70	0.57
10:BA:246:U:C4	26:BQ:14:GLY:HA3	2.38	0.57
10:BA:315:U:H2'	10:BA:316:G:H8	1.69	0.57
10:BA:315:U:O2	10:BA:337:G:H1'	2.03	0.57
10:BA:1583:A:O2'	10:BA:1584:U:H5'	2.04	0.57
10:BA:1715:A:C8	10:BA:1715:A:H3'	2.40	0.57
12:BC:73:THR:O	12:BC:77:GLN:HG3	2.05	0.57
12:BC:129:VAL:HG12	12:BC:134:ALA:HB2	1.85	0.57
14:BE:231:TRP:CD1	17:BH:68:ARG:HG3	2.39	0.57
23:BN:18:LYS:HD3	23:BN:30:ILE:HD12	1.86	0.57
24:BO:43:ALA:HB1	24:BO:82:CYS:SG	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BQ:5:ILE:O	26:BQ:6:GLN:C	2.47	0.57
30:BU:26:SER:HB2	30:BU:104:ALA:HB3	1.87	0.57
3:A3:65:VAL:CG2	3:A3:73:LEU:HD22	2.33	0.57
10:AA:71:U:O2	10:AA:71:U:H2'	2.05	0.57
10:AA:393:C:O2	10:AA:393:C:C2'	2.53	0.57
10:AA:670:G:O2'	10:AA:671:A:H5'	2.05	0.57
10:AA:721:A:H5"	32:AW:199:HIS:CD2	2.40	0.57
10:AA:859:A:H8	10:AA:859:A:H5'	1.69	0.57
10:AA:897:A:H2'	10:AA:898:U:H6	1.70	0.57
10:AA:1110:A:H1'	10:AA:1111:A:O4'	2.04	0.57
10:AA:1606:C:H3'	10:AA:1606:C:C6	2.39	0.57
10:AA:1629:G:H1	10:AA:1696:U:H3	1.51	0.57
11:AB:2:ALA:HB1	35:AZ:97:GLU:HG2	1.86	0.57
12:AC:40:ILE:CG2	12:AC:42:VAL:HG23	2.33	0.57
12:AC:227:ILE:HG12	27:AR:209:PHE:HE1	1.68	0.57
14:AE:39:TYR:CE2	14:AE:251:LYS:HE3	2.38	0.57
14:AE:228:PRO:HA	14:AE:231:TRP:CD1	2.37	0.57
16:AG:55:LYS:O	16:AG:56:PHE:CD1	2.56	0.57
16:AG:116:PRO:HG3	16:AG:189:LYS:HA	1.86	0.57
16:AG:163:SER:HB3	16:AG:166:GLU:HG3	1.85	0.57
18:AI:43:PRO:C	18:AI:45:ILE:N	2.62	0.57
19:AJ:45:THR:HB	19:AJ:48:VAL:CG2	2.35	0.57
20:AK:110:PRO:C	20:AK:112:ALA:H	2.12	0.57
28:AS:132:THR:HG22	28:AS:133:HIS:N	2.19	0.57
32:AW:157:LYS:N	32:AW:160:ASP:OD2	2.37	0.57
3:B3:157:GLN:OE1	3:B3:186:PHE:HB3	2.05	0.57
6:B6:17:ASN:O	6:B6:19:PHE:N	2.37	0.57
6:B6:31:MET:CE	6:B6:77:PHE:HD2	2.18	0.57
10:BA:174:A:H8	10:BA:174:A:O5'	1.88	0.57
10:BA:794:A:O3'	10:BA:797:A:H2	1.87	0.57
10:BA:1054:U:H5'	10:BA:1055:G:OP1	2.05	0.57
10:BA:1069:U:HO2'	10:BA:1070:U:P	2.27	0.57
13:BD:100:THR:HG22	13:BD:102:HIS:H	1.69	0.57
19:BJ:18:ARG:HG2	19:BJ:117:THR:HB	1.86	0.57
19:BJ:94:ASN:CB	19:BJ:96:PRO:HD2	2.35	0.57
22:BM:148:CYS:SG	22:BM:149:GLY:N	2.78	0.57
34:BY:64:LYS:O	34:BY:65:GLN:C	2.47	0.57
1:A1:48:ALA:HB3	16:AG:139:MET:HB3	1.86	0.57
1:A1:66:ARG:O	1:A1:67:LEU:HG	2.05	0.57
2:A2:14:THR:O	2:A2:16:GLY:N	2.38	0.57
2:A2:57:ARG:O	2:A2:59:GLY:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:95:THR:HG22	3:A3:96:ALA:O	2.05	0.57
5:A5:69:LEU:HD11	20:AK:108:PRO:HD3	1.86	0.57
8:A8:30:TRP:O	8:A8:31:THR:OG1	2.23	0.57
10:AA:235:A:C2'	10:AA:814:A:H5'	2.34	0.57
10:AA:477:G:C2'	10:AA:478:G:H5'	2.33	0.57
10:AA:604:G:H22	10:AA:1080:G:H22	1.51	0.57
10:AA:868:U:H2'	10:AA:869:A:H5'	1.87	0.57
10:AA:1059:A:H5'	10:AA:1270:U:O4	2.05	0.57
10:AA:1652:A:N3	34:AY:66:GLY:HA3	2.20	0.57
10:AA:1745:G:C3'	10:AA:1746:G:C5'	2.82	0.57
12:AC:108:MET:O	12:AC:112:LEU:HG	2.03	0.57
12:AC:200:ALA:O	12:AC:201:LYS:HG3	2.03	0.57
13:AD:8:THR:O	13:AD:9:SER:HB3	2.05	0.57
19:AJ:97:ASP:O	19:AJ:101:ILE:HG13	2.04	0.57
22:AM:93:LYS:HE2	28:AS:41:LEU:HD22	1.87	0.57
27:AR:9:ILE:HG21	27:AR:291:VAL:HG21	1.86	0.57
27:AR:77:HIS:HD2	27:AR:96:TRP:HB2	1.69	0.57
31:AV:27:ASP:O	31:AV:31:ASN:ND2	2.37	0.57
35:AZ:34:TRP:CD1	35:AZ:82:ALA:HA	2.40	0.57
4:B4:71:THR:HB	20:BK:128:ARG:CZ	2.35	0.57
9:B9:98:LEU:HD23	9:B9:100:PHE:CE1	2.40	0.57
10:BA:350:A:H5"	10:BA:351:A:C5'	2.34	0.57
10:BA:424:A:H2'	10:BA:425:A:H8	1.70	0.57
10:BA:477:G:C2'	10:BA:478:G:H5'	2.35	0.57
10:BA:531:A:H8	10:BA:536:C:H42	1.52	0.57
10:BA:604:G:H22	10:BA:1080:G:H22	1.52	0.57
10:BA:796:U:H3'	10:BA:797:A:O4'	2.04	0.57
10:BA:1443:A:N7	10:BA:1507:U:H5	2.03	0.57
10:BA:1501:C:OP2	16:BG:86:LYS:NZ	2.37	0.57
10:BA:1608:C:C4	10:BA:1610:G:N3	2.73	0.57
10:BA:1608:C:H42	10:BA:1610:G:N2	2.02	0.57
11:BB:22:THR:CG2	11:BB:23:ILE:N	2.67	0.57
12:BC:83:SER:C	12:BC:85:ASP:H	2.12	0.57
16:BG:45:PRO:HG3	16:BG:85:ILE:HG23	1.87	0.57
16:BG:122:ARG:HH21	16:BG:129:VAL:HG21	1.68	0.57
16:BG:170:ASP:HA	16:BG:173:ILE:HD12	1.86	0.57
17:BH:25:VAL:CG2	17:BH:65:LEU:HD11	2.35	0.57
18:BI:112:MET:HA	18:BI:112:MET:HE2	1.85	0.57
20:BK:95:ILE:HD11	20:BK:126:ILE:HG21	1.86	0.57
33:BX:42:ASN:HA	33:BX:46:ALA:HB2	1.87	0.57
3:A3:73:LEU:HD21	3:A3:94:PHE:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:147:GLY:HA3	17:AH:39:ARG:HH21	1.69	0.57
10:AA:7:G:H4'	10:AA:567:C:O2'	2.04	0.57
10:AA:73:A:H4'	10:AA:74:A:O5'	2.05	0.57
10:AA:134:C:O2'	10:AA:135:A:OP2	2.21	0.57
10:AA:562:G:OP1	21:AL:69:LYS:HE2	2.05	0.57
10:AA:782:A:H2'	10:AA:783:U:O4'	2.04	0.57
10:AA:1124:A:O2'	10:AA:1719:A:C2	2.56	0.57
10:AA:1156:A:H2	10:AA:1425:G:N3	2.02	0.57
10:AA:1418:C:O2'	10:AA:1419:G:P	2.63	0.57
11:AB:127:PHE:CD1	11:AB:128:GLN:N	2.73	0.57
14:AE:49:PHE:HD1	35:AZ:41:SER:HB3	1.69	0.57
17:AH:18:GLU:OE1	17:AH:67:GLY:HA2	2.05	0.57
19:AJ:94:ASN:CB	19:AJ:96:PRO:HD2	2.34	0.57
20:AK:95:ILE:HD12	20:AK:129:ILE:CG2	2.32	0.57
24:AO:133:LEU:HA	26:AQ:147:ILE:HD12	1.86	0.57
2:B2:95:ASN:HD22	10:BA:332:A:H4'	1.70	0.57
3:B3:131:LEU:HD23	3:B3:131:LEU:H	1.68	0.57
4:B4:130:CYS:HB2	4:B4:138:ILE:CD1	2.32	0.57
10:BA:341:G:O2'	10:BA:342:U:P	2.63	0.57
10:BA:437:A:N3	10:BA:437:A:H2'	2.20	0.57
10:BA:895:U:O2'	20:BK:43:HIS:CD2	2.54	0.57
10:BA:970:A:H2	10:BA:1730:G:H4'	1.70	0.57
10:BA:1475:G:H5"	29:BT:100:HIS:CD2	2.39	0.57
10:BA:1701:C:C2'	10:BA:1702:A:H5'	2.34	0.57
11:BB:168:SER:HB2	11:BB:198:PHE:CB	2.34	0.57
20:BK:42:ILE:HD11	20:BK:115:ALA:HB1	1.87	0.57
21:BL:81:LYS:O	21:BL:81:LYS:HD2	2.05	0.57
31:BV:89:SER:C	31:BV:91:ILE:N	2.63	0.57
32:BW:117:SER:C	32:BW:119:GLU:N	2.61	0.57
2:A2:156:ALA:O	2:A2:158:ALA:N	2.36	0.57
2:A2:192:GLU:HB2	26:AQ:19:SER:CB	2.34	0.57
8:A8:30:TRP:CH2	15:BF:84:PHE:CZ	2.89	0.57
9:A9:142:LYS:HE2	9:A9:147:UNK:HB2	1.87	0.57
10:AA:129:G:H2'	10:AA:130:A:O4'	2.05	0.57
10:AA:1086:G:O2'	10:AA:1087:U:OP2	2.21	0.57
10:AA:1204:U:C2'	10:AA:1205:G:H5'	2.35	0.57
10:AA:1390:G:H2'	10:AA:1391:C:O4'	2.05	0.57
10:AA:1460:U:P	12:AC:9:ASN:HD21	2.28	0.57
10:AA:1750:A:H4'	10:AA:1750:A:OP1	2.04	0.57
12:AC:35:ALA:HA	12:AC:57:LYS:HD2	1.85	0.57
13:AD:94:ASP:OD2	14:AE:147:ASN:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AG:68:ILE:HG23	16:AG:84:CYS:HB3	1.87	0.57
18:AI:13:GLY:HA2	18:AI:85:GLN:HE21	1.69	0.57
20:AK:78:ALA:HB1	20:AK:119:LEU:HD13	1.87	0.57
20:AK:105:THR:C	20:AK:107:GLN:H	2.13	0.57
24:AO:15:GLY:O	24:AO:16:SER:CB	2.53	0.57
31:AV:41:VAL:HG11	31:AV:47:ARG:HA	1.86	0.57
32:AW:255:LYS:O	32:AW:259:SER:HA	2.03	0.57
33:AX:58:LYS:HD3	33:AX:62:TRP:CH2	2.40	0.57
3:B3:43:THR:HG21	3:B3:97:GLN:HG2	1.86	0.57
3:B3:131:LEU:HD23	3:B3:131:LEU:N	2.20	0.57
8:B8:75:VAL:CG1	8:B8:79:LEU:HD13	2.35	0.57
9:B9:78:LYS:HB2	9:B9:80:TYR:CE1	2.40	0.57
10:BA:149:U:H4'	34:BY:58:LYS:O	2.04	0.57
10:BA:232:G:O2'	10:BA:233:U:H5'	2.05	0.57
10:BA:265:C:OP1	34:BY:180:GLN:NE2	2.38	0.57
10:BA:1324:U:H2'	10:BA:1325:G:C8	2.40	0.57
10:BA:1577:G:OP2	18:BI:129:LYS:HD3	2.04	0.57
10:BA:1653:C:H2'	10:BA:1654:U:O4'	2.05	0.57
11:BB:139:PRO:CD	35:BZ:47:VAL:HG21	2.34	0.57
13:BD:109:LEU:HB2	13:BD:146:PHE:CB	2.30	0.57
14:BE:45:LEU:N	14:BE:64:PHE:CE2	2.73	0.57
16:BG:39:LYS:HE2	18:BI:113:GLN:O	2.05	0.57
17:BH:97:ARG:C	17:BH:98:GLN:HG2	2.29	0.57
20:BK:38:ASN:O	20:BK:68:GLU:HG3	2.04	0.57
32:BW:43:PRO:HG2	32:BW:46:VAL:CG2	2.34	0.57
3:A3:12:LEU:HB2	3:A3:17:GLU:HG2	1.87	0.56
3:A3:131:LEU:HD23	3:A3:131:LEU:N	2.20	0.56
4:A4:196:GLY:C	4:A4:198:ASP:H	2.13	0.56
6:A6:45:PHE:CE2	6:A6:47:ASN:HB2	2.40	0.56
9:A9:90:HIS:NE2	10:AA:1217:G:N2	2.52	0.56
10:AA:66:A:C2'	10:AA:67:G:H5'	2.33	0.56
10:AA:73:A:N1	34:AY:162:ARG:NH1	2.53	0.56
10:AA:315:U:O2	10:AA:337:G:H1'	2.04	0.56
10:AA:546:G:C4	10:AA:547:C:C5	2.93	0.56
10:AA:634:C:H2'	10:AA:635:U:H5'	1.86	0.56
10:AA:945:A:O2'	10:AA:946:U:H5'	2.04	0.56
10:AA:1188:A:H2	10:AA:1417:A:H62	1.51	0.56
10:AA:1246:C:O2'	10:AA:1247:A:H5"	2.04	0.56
10:AA:1277:U:O2'	10:AA:1278:C:OP1	2.22	0.56
10:AA:1422:C:H2'	10:AA:1423:U:C6	2.40	0.56
10:AA:1582:G:OP2	18:AI:77:THR:HG21	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1611:C:H2'	10:AA:1612:C:H5'	1.87	0.56
13:AD:161:THR:HB	13:AD:163:PRO:HD2	1.86	0.56
19:AJ:95:VAL:N	19:AJ:96:PRO:HD2	2.20	0.56
22:AM:89:ILE:HG22	22:AM:90:ASN:ND2	2.19	0.56
32:AW:106:ASP:HB3	32:AW:108:LYS:H	1.70	0.56
32:AW:185:ILE:HD11	32:AW:193:ARG:HB3	1.87	0.56
34:AY:23:LYS:HE2	34:AY:41:LEU:HA	1.86	0.56
34:AY:91:PHE:CD1	34:AY:91:PHE:O	2.57	0.56
2:B2:10:LYS:NZ	10:BA:330:C:OP2	2.38	0.56
3:B3:103:LYS:HB2	3:B3:104:TRP:CE3	2.40	0.56
5:B5:38:ARG:HH22	5:B5:86:VAL:CG2	2.16	0.56
5:B5:85:VAL:O	5:B5:85:VAL:HG12	2.03	0.56
7:B7:103:GLU:HG2	12:BC:92:GLU:OE1	2.04	0.56
10:BA:17:C:H5'	10:BA:1081:G:C5'	2.35	0.56
10:BA:201:A:C2'	10:BA:202:U:H5'	2.34	0.56
10:BA:453:G:H2'	10:BA:454:C:C6	2.40	0.56
10:BA:501:U:H5'	10:BA:501:U:H6	1.70	0.56
10:BA:634:C:H2'	10:BA:635:U:H5'	1.86	0.56
10:BA:642:G:H22	10:BA:666:A:H2	1.53	0.56
10:BA:1081:G:H5'	10:BA:1081:G:C8	2.28	0.56
10:BA:1171:G:C2	23:BN:29:LEU:HD22	2.39	0.56
10:BA:1260:G:C2'	10:BA:1261:U:H5'	2.35	0.56
10:BA:1500:C:C5'	16:BG:86:LYS:HZ1	2.18	0.56
10:BA:1652:A:H2'	34:BY:65:GLN:HE21	1.69	0.56
11:BB:127:PHE:CD1	11:BB:128:GLN:N	2.73	0.56
13:BD:8:THR:O	13:BD:9:SER:HB3	2.04	0.56
14:BE:56:LYS:HA	14:BE:56:LYS:CE	2.28	0.56
16:BG:26:ASP:OD1	16:BG:28:CYS:CB	2.53	0.56
16:BG:51:TYR:CE2	16:BG:61:CYS:HA	2.39	0.56
22:BM:28:THR:OG1	22:BM:29:PRO:HD3	2.05	0.56
27:BR:296:ALA:HB1	27:BR:310:PRO:CG	2.35	0.56
31:BV:20:TYR:CD1	31:BV:20:TYR:N	2.73	0.56
35:BZ:47:VAL:CG1	35:BZ:74:ARG:HD2	2.35	0.56
8:A8:27:LYS:O	8:A8:29:LYS:HG2	2.05	0.56
10:AA:303:A:O2'	10:AA:304:U:H5'	2.05	0.56
10:AA:533:G:O2'	10:AA:534:A:C5'	2.53	0.56
10:AA:642:G:H22	10:AA:666:A:H2	1.53	0.56
10:AA:869:A:H5'	10:AA:869:A:C8	2.33	0.56
10:AA:871:U:H2'	10:AA:872:A:O4'	2.05	0.56
16:AG:66:ARG:HH22	16:AG:143:ASN:HD21	1.54	0.56
16:AG:96:HIS:O	16:AG:100:GLY:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AI:102:ASN:CG	27:AR:67:ILE:HG21	2.30	0.56
19:AJ:41:ARG:HH12	19:AJ:103:ASN:C	2.13	0.56
20:AK:66:ARG:HG3	20:AK:67:GLU:OE1	2.05	0.56
27:AR:157:GLU:HA	27:AR:160:ASN:OD1	2.04	0.56
28:AS:86:ARG:O	28:AS:122:ALA:HB2	2.06	0.56
33:AX:63:HIS:C	33:AX:65:GLY:N	2.56	0.56
34:AY:107:ARG:HG3	34:AY:108:VAL:HG23	1.87	0.56
2:B2:159:LEU:O	2:B2:160:GLU:O	2.23	0.56
8:B8:26:GLY:HA3	8:B8:29:LYS:HD2	1.87	0.56
8:B8:27:LYS:O	8:B8:29:LYS:HG2	2.05	0.56
10:BA:72:G:N1	10:BA:75:C:C4	2.73	0.56
10:BA:264:U:O2'	10:BA:265:C:H5'	2.04	0.56
10:BA:787:A:N9	17:BH:106:THR:O	2.38	0.56
10:BA:971:A:C2'	10:BA:972:G:H5'	2.34	0.56
14:BE:58:PRO:HB3	14:BE:131:THR:HG23	1.86	0.56
16:BG:137:ALA:HB1	16:BG:138:PRO:HD2	1.85	0.56
21:BL:112:ALA:CB	21:BL:119:VAL:O	2.53	0.56
22:BM:16:ARG:HH11	22:BM:16:ARG:HG3	1.70	0.56
22:BM:93:LYS:HA	22:BM:93:LYS:CE	2.21	0.56
24:BO:143:TYR:HA	24:BO:147:THR:CG2	2.35	0.56
25:BP:13:ASN:ND2	32:BW:54:TYR:O	2.38	0.56
31:BV:41:VAL:HG11	31:BV:47:ARG:CA	2.34	0.56
34:BY:41:LEU:HB3	34:BY:45:PHE:HD1	1.68	0.56
2:A2:144:SER:O	2:A2:147:VAL:HG23	2.05	0.56
5:A5:28:ARG:HG2	5:A5:29:GLN:N	2.21	0.56
6:A6:52:ILE:CG1	6:A6:62:CYS:HB2	2.35	0.56
7:A7:61:TRP:NE1	12:AC:26:SER:HB3	2.20	0.56
10:AA:157:G:H8	10:AA:157:G:O5'	1.88	0.56
10:AA:210:A:C3'	10:AA:239:A:H2	2.18	0.56
10:AA:359:U:C2'	10:AA:360:U:H5'	2.35	0.56
10:AA:537:A:N3	10:AA:537:A:OP2	2.38	0.56
10:AA:867:U:C5'	10:AA:867:U:C6	2.87	0.56
10:AA:939:U:H2'	10:AA:939:U:O2	2.04	0.56
10:AA:942:U:O2'	10:AA:943:U:C5'	2.52	0.56
10:AA:1157:U:O2'	10:AA:1158:U:OP2	2.20	0.56
10:AA:1229:U:H2'	10:AA:1230:U:H5'	1.86	0.56
10:AA:1443:A:N7	10:AA:1507:U:H5	2.02	0.56
10:AA:1729:A:O2'	10:AA:1730:G:H5'	2.04	0.56
11:AB:22:THR:HG22	11:AB:23:ILE:H	1.70	0.56
11:AB:194:MET:HE1	31:AV:89:SER:H	1.69	0.56
13:AD:37:LYS:HZ1	13:AD:126:ARG:HH11	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AD:129:ILE:CG2	13:AD:134:ILE:HD12	2.29	0.56
14:AE:112:ILE:HD12	14:AE:192:ALA:HB2	1.88	0.56
14:AE:231:TRP:HZ3	35:AZ:8:GLN:CB	2.16	0.56
14:AE:231:TRP:HH2	17:AH:66:ILE:HG21	1.65	0.56
16:AG:180:THR:HG22	16:AG:180:THR:O	2.05	0.56
18:AI:129:LYS:O	18:AI:130:LYS:HG3	2.05	0.56
19:AJ:18:ARG:HG2	19:AJ:117:THR:HB	1.86	0.56
21:AL:116:ILE:HG23	21:AL:117:PRO:HD2	1.88	0.56
22:AM:148:CYS:SG	22:AM:149:GLY:N	2.78	0.56
23:AN:45:GLN:O	23:AN:49:ILE:HG13	2.05	0.56
24:AO:117:LEU:HD21	24:AO:121:GLU:OE1	2.06	0.56
25:AP:3:ILE:N	25:AP:3:ILE:HD12	2.21	0.56
27:AR:56:LEU:HD11	27:AR:65:PHE:CZ	2.40	0.56
27:AR:58:GLU:HA	27:AR:58:GLU:OE1	2.04	0.56
27:AR:237:LEU:HD23	27:AR:238:LEU:N	2.20	0.56
31:AV:17:ILE:HD11	31:AV:54:ALA:O	2.05	0.56
32:AW:52:LEU:O	32:AW:53:ASN:CB	2.54	0.56
32:AW:69:GLU:O	32:AW:70:GLN:HB2	2.04	0.56
32:AW:193:ARG:NH1	32:AW:246:VAL:HG13	2.20	0.56
34:AY:38:GLY:HA3	34:AY:50:PHE:HE1	1.70	0.56
3:B3:81:ILE:HG12	3:B3:94:PHE:CE1	2.40	0.56
4:B4:165:SER:HA	4:B4:168:ARG:NE	2.16	0.56
5:B5:46:ASP:HB2	5:B5:47:PRO:CD	2.27	0.56
6:B6:23:ILE:HG23	24:BO:20:PHE:CD2	2.40	0.56
8:B8:27:LYS:HG2	10:BA:1509:U:C5	2.40	0.56
10:BA:29:G:H4'	21:BL:130:SER:HB2	1.86	0.56
10:BA:148:C:H4'	34:BY:108:VAL:HG21	1.87	0.56
10:BA:272:U:H3'	10:BA:273:A:H5"	1.86	0.56
10:BA:553:A:H2'	10:BA:553:A:N3	2.20	0.56
10:BA:1172:G:H4'	10:BA:1173:G:C5'	2.31	0.56
10:BA:1611:C:H2'	10:BA:1612:C:H5'	1.87	0.56
10:BA:1657:G:H2'	10:BA:1658:A:C8	2.40	0.56
10:BA:1697:G:H2'	10:BA:1698:G:C8	2.40	0.56
10:BA:1717:C:H5'	10:BA:1717:C:C6	2.31	0.56
11:BB:25:LEU:CD2	11:BB:33:ILE:HD13	2.29	0.56
12:BC:35:ALA:HA	12:BC:57:LYS:HD2	1.86	0.56
12:BC:108:MET:HE1	12:BC:122:ALA:CA	2.34	0.56
12:BC:159:TYR:O	12:BC:160:MET:HB2	2.05	0.56
13:BD:100:THR:HG22	13:BD:102:HIS:HB3	1.87	0.56
14:BE:182:ALA:HB3	14:BE:185:PRO:CD	2.35	0.56
14:BE:182:ALA:O	14:BE:185:PRO:HD2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:225:TYR:CE1	17:BH:70:ASN:ND2	2.74	0.56
15:BF:48:MET:CE	15:BF:59:ALA:HB1	2.35	0.56
16:BG:61:CYS:SG	16:BG:66:ARG:HG2	2.45	0.56
17:BH:38:LEU:O	17:BH:47:ILE:HD11	2.04	0.56
18:BI:57:LEU:CD2	18:BI:107:ILE:HG23	2.36	0.56
20:BK:21:VAL:CG1	20:BK:22:GLY:H	2.09	0.56
20:BK:22:GLY:C	20:BK:24:ASN:H	2.12	0.56
20:BK:36:THR:CG2	20:BK:37:TRP:H	2.18	0.56
21:BL:101:VAL:HA	21:BL:125:CYS:O	2.04	0.56
23:BN:36:MET:N	23:BN:36:MET:HE2	2.20	0.56
25:BP:18:ARG:CZ	25:BP:20:GLN:HE21	2.18	0.56
25:BP:26:LEU:C	25:BP:28:PRO:HD2	2.30	0.56
26:BQ:9:TYR:O	26:BQ:10:GLN:CB	2.53	0.56
27:BR:49:LYS:HB2	27:BR:77:HIS:O	2.04	0.56
28:BS:56:GLU:CD	28:BS:56:GLU:N	2.63	0.56
30:BU:95:LYS:O	30:BU:95:LYS:HG3	2.05	0.56
30:BU:96:LYS:HE2	30:BU:98:LYS:HE2	1.87	0.56
31:BV:35:LEU:HD11	31:BV:50:ILE:HB	1.87	0.56
34:BY:185:PRO:HG2	34:BY:186:GLU:OE1	2.05	0.56
8:A8:60:VAL:CG2	8:A8:73:LEU:HD21	2.35	0.56
10:AA:431:U:O4'	10:AA:457:G:N2	2.37	0.56
10:AA:492:C:O2'	10:AA:493:U:H5'	2.05	0.56
10:AA:514:G:O2'	10:AA:515:U:H5'	2.05	0.56
10:AA:761:U:C4	10:AA:764:U:C2	2.93	0.56
10:AA:874:U:H3	10:AA:892:G:N2	2.03	0.56
10:AA:878:A:HO2'	10:AA:894:U:HO2'	1.52	0.56
10:AA:1217:G:O2'	10:AA:1218:C:P	2.63	0.56
10:AA:1403:U:O2'	10:AA:1404:G:P	2.63	0.56
10:AA:1555:A:O2'	10:AA:1556:G:P	2.63	0.56
10:AA:1608:C:C4	10:AA:1718:A:C2	2.93	0.56
11:AB:2:ALA:HB1	35:AZ:97:GLU:CB	2.35	0.56
11:AB:8:ASP:O	11:AB:12:ARG:HG2	2.06	0.56
14:AE:141:ARG:HB2	14:AE:223:TYR:CE2	2.41	0.56
16:AG:26:ASP:OD1	16:AG:28:CYS:CB	2.53	0.56
26:AQ:127:CYS:SG	26:AQ:130:ILE:HD11	2.46	0.56
27:AR:285:THR:CG2	27:AR:286:GLN:H	2.06	0.56
31:AV:3:ARG:O	31:AV:3:ARG:HG3	2.04	0.56
31:AV:25:THR:C	31:AV:31:ASN:HD21	2.12	0.56
32:AW:49:LYS:HE2	32:AW:58:GLY:HA2	1.87	0.56
32:AW:117:SER:C	32:AW:119:GLU:N	2.61	0.56
4:B4:181:GLU:HG2	4:B4:199:TYR:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:533:G:H8	33:BX:28:ARG:HH11	1.54	0.56
10:BA:633:U:C4'	10:BA:634:C:H5"	2.32	0.56
10:BA:897:A:H2'	10:BA:898:U:H6	1.69	0.56
10:BA:1278:C:O2	10:BA:1278:C:C2'	2.53	0.56
10:BA:1373:G:C4	10:BA:1374:C:C5	2.93	0.56
12:BC:205:VAL:HG12	12:BC:206:LYS:H	1.65	0.56
13:BD:8:THR:HG22	13:BD:9:SER:N	2.13	0.56
13:BD:60:LEU:CD2	13:BD:93:LEU:HD13	2.34	0.56
22:BM:101:ALA:HB3	22:BM:104:THR:OG1	2.04	0.56
25:BP:56:TYR:C	25:BP:56:TYR:CD1	2.83	0.56
26:BQ:117:LYS:HB3	26:BQ:120:ASP:OD2	2.06	0.56
26:BQ:125:GLY:O	26:BQ:136:PHE:HD1	1.87	0.56
27:BR:276:GLN:C	27:BR:294:ILE:HG23	2.30	0.56
4:A4:130:CYS:HB2	4:A4:138:ILE:CD1	2.32	0.56
5:A5:53:ILE:HD13	20:AK:116:LEU:HD13	1.87	0.56
10:AA:500:U:C3'	10:AA:501:U:H5"	2.35	0.56
10:AA:512:C:H3'	10:AA:513:A:H5"	1.84	0.56
10:AA:586:A:H2'	10:AA:587:U:H5'	1.86	0.56
10:AA:736:A:OP2	32:AW:189:ASN:HB2	2.06	0.56
10:AA:1054:U:H5'	10:AA:1055:G:OP1	2.05	0.56
10:AA:1339:G:O2'	10:AA:1340:G:H5'	2.06	0.56
10:AA:1510:U:C2'	10:AA:1511:A:O5'	2.52	0.56
11:AB:11:LYS:CE	31:AV:115:PRO:HB2	2.35	0.56
11:AB:188:ASP:O	11:AB:189:GLU:O	2.23	0.56
11:AB:194:MET:CE	31:AV:89:SER:H	2.18	0.56
12:AC:80:PHE:N	12:AC:80:PHE:CD1	2.74	0.56
13:AD:60:LEU:CD2	13:AD:93:LEU:HD13	2.34	0.56
13:AD:131:GLN:O	13:AD:132:ARG:HB2	2.05	0.56
14:AE:145:TRP:H	14:AE:153:HIS:CE1	2.24	0.56
14:AE:231:TRP:HZ2	17:AH:45:GLY:O	1.89	0.56
16:AG:47:THR:C	16:AG:49:GLY:N	2.60	0.56
16:AG:68:ILE:HD13	16:AG:85:ILE:HA	1.88	0.56
28:AS:95:VAL:HG21	28:AS:117:ILE:HD11	1.86	0.56
30:AU:36:ILE:HG23	30:AU:68:ILE:CD1	2.35	0.56
2:B2:14:THR:O	2:B2:16:GLY:N	2.38	0.56
2:B2:156:ALA:O	2:B2:158:ALA:N	2.37	0.56
3:B3:95:THR:CG2	3:B3:96:ALA:H	2.17	0.56
3:B3:123:TYR:CE2	3:B3:178:THR:HA	2.41	0.56
4:B4:34:PHE:CE2	4:B4:45:PHE:HB3	2.40	0.56
9:B9:147:UNK:CG	9:B9:148:UNK:N	2.68	0.56
10:BA:133:A:N6	10:BA:169:G:O2'	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:683:A:H2'	10:BA:684:A:O4'	2.05	0.56
10:BA:843:A:N6	10:BA:942:U:C5	2.73	0.56
10:BA:1117:U:O2'	10:BA:1273:U:H4'	2.05	0.56
10:BA:1188:A:H2	10:BA:1417:A:H62	1.52	0.56
10:BA:1230:U:H2'	10:BA:1231:C:H6	1.70	0.56
10:BA:1455:A:N1	10:BA:1563:C:H1'	2.21	0.56
11:BB:139:PRO:CB	35:BZ:47:VAL:HG21	2.35	0.56
12:BC:118:VAL:O	12:BC:121:ALA:HB3	2.06	0.56
12:BC:200:ALA:O	12:BC:201:LYS:HG3	2.05	0.56
13:BD:29:LYS:C	13:BD:29:LYS:HD2	2.30	0.56
14:BE:69:LYS:HE2	14:BE:76:LYS:HZ3	1.71	0.56
20:BK:105:THR:C	20:BK:107:GLN:H	2.13	0.56
21:BL:51:LEU:HD21	21:BL:76:ARG:HE	1.69	0.56
23:BN:45:GLN:O	23:BN:49:ILE:HG13	2.06	0.56
26:BQ:87:ARG:HD3	26:BQ:104:ARG:CZ	2.35	0.56
27:BR:77:HIS:HD2	27:BR:96:TRP:HB2	1.70	0.56
27:BR:111:TYR:CE1	27:BR:112:LYS:HG2	2.41	0.56
32:BW:52:LEU:O	32:BW:53:ASN:CB	2.54	0.56
4:A4:73:ALA:CB	20:AK:128:ARG:NH2	2.69	0.56
4:A4:128:VAL:O	4:A4:139:ARG:HA	2.05	0.56
10:AA:72:G:N1	10:AA:75:C:C4	2.74	0.56
10:AA:234:G:C2	10:AA:235:A:C2	2.94	0.56
10:AA:676:C:O2'	10:AA:677:G:OP2	2.18	0.56
10:AA:883:A:N6	10:AA:884:A:C2	2.74	0.56
10:AA:1052:U:H2'	10:AA:1052:U:O2	2.04	0.56
10:AA:1487:A:OP2	12:AC:10:LYS:HD3	2.05	0.56
10:AA:1511:A:H4'	10:AA:1512:G:H5'	1.88	0.56
10:AA:1558:A:C4	10:AA:1583:A:C6	2.94	0.56
12:AC:9:ASN:HB2	12:AC:12:LYS:CB	2.35	0.56
12:AC:84:ASP:C	12:AC:86:GLN:N	2.62	0.56
21:AL:106:LEU:HD21	21:AL:121:PHE:C	2.30	0.56
22:AM:61:LEU:HB3	22:AM:65:GLN:CB	2.35	0.56
25:AP:26:LEU:C	25:AP:28:PRO:HD2	2.31	0.56
28:AS:56:GLU:CD	28:AS:56:GLU:H	2.13	0.56
29:AT:45:VAL:H	29:AT:100:HIS:CG	2.23	0.56
29:AT:148:ALA:O	29:AT:152:ARG:HG2	2.05	0.56
1:B1:54:VAL:HB	16:BG:28:CYS:HA	1.87	0.56
2:B2:57:ARG:O	2:B2:59:GLY:N	2.39	0.56
4:B4:196:GLY:C	4:B4:198:ASP:H	2.13	0.56
5:B5:57:LEU:CD1	5:B5:58:ALA:H	2.18	0.56
8:B8:58:SER:CB	8:B8:111:VAL:HG13	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:65:C:OP1	34:BY:136:LYS:NZ	2.38	0.56
10:BA:210:A:C3'	10:BA:239:A:H2	2.19	0.56
10:BA:231:U:C2'	10:BA:232:G:H5"	2.36	0.56
10:BA:316:G:OP2	26:BQ:132:LYS:HE3	2.06	0.56
10:BA:869:A:H5'	10:BA:869:A:C8	2.34	0.56
10:BA:1256:C:O2'	10:BA:1257:U:P	2.63	0.56
11:BB:94:THR:HG21	11:BB:111:LYS:HE2	1.88	0.56
13:BD:96:VAL:O	13:BD:99:LEU:HG	2.06	0.56
16:BG:122:ARG:HH21	16:BG:129:VAL:CG2	2.19	0.56
22:BM:88:ARG:CB	22:BM:100:MET:HE3	2.35	0.56
26:BQ:8:ALA:CB	26:BQ:11:LYS:HE2	2.36	0.56
29:BT:45:VAL:HG13	29:BT:98:ALA:O	2.05	0.56
34:BY:139:ASN:HA	34:BY:142:LYS:HE2	1.87	0.56
2:A2:12:ARG:O	2:A2:13:ALA:C	2.49	0.56
4:A4:34:PHE:CE2	4:A4:45:PHE:HB3	2.41	0.56
6:A6:31:MET:CE	6:A6:77:PHE:HD2	2.19	0.56
7:A7:63:PHE:HB2	7:A7:65:TYR:CE1	2.41	0.56
9:A9:147:UNK:CG	9:A9:148:UNK:N	2.68	0.56
10:AA:43:U:O2'	10:AA:44:U:OP1	2.23	0.56
10:AA:319:A:OP1	26:AQ:55:LYS:HE3	2.06	0.56
10:AA:371:U:O2	10:AA:371:U:C2'	2.54	0.56
10:AA:525:U:H5"	25:AP:63:GLY:N	2.21	0.56
10:AA:764:U:C2	10:AA:766:G:C2	2.94	0.56
10:AA:938:U:H2'	10:AA:939:U:H6	1.70	0.56
10:AA:1453:C:C1'	18:AI:79:GLN:HE22	2.18	0.56
13:AD:128:LEU:C	13:AD:130:ARG:N	2.61	0.56
18:AI:49:LYS:HA	18:AI:52:GLU:HG3	1.87	0.56
22:AM:16:ARG:HH11	22:AM:16:ARG:HG3	1.70	0.56
23:AN:18:LYS:HD3	23:AN:30:ILE:HD12	1.86	0.56
30:AU:76:ARG:HG3	30:AU:99:GLY:CA	2.36	0.56
32:AW:122:LYS:HG3	32:AW:167:VAL:HG23	1.88	0.56
34:AY:57:ASP:C	34:AY:59:ASP:H	2.13	0.56
2:B2:121:TYR:HD2	2:B2:129:LEU:HD11	1.68	0.56
3:B3:73:LEU:HD21	3:B3:94:PHE:HB3	1.87	0.56
8:B8:76:ASN:ND2	8:B8:78:SER:OG	2.38	0.56
10:BA:57:U:H3	10:BA:85:G:H1	1.52	0.56
10:BA:623:U:C6	10:BA:623:U:H3'	2.40	0.56
10:BA:866:U:C3'	10:BA:867:U:H5"	2.35	0.56
10:BA:1277:U:O2'	10:BA:1278:C:P	2.64	0.56
10:BA:1723:A:H2'	10:BA:1724:U:C6	2.41	0.56
13:BD:118:LEU:HD11	13:BD:158:PHE:CE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BG:120:SER:OG	16:BG:196:ALA:HA	2.06	0.56
16:BG:163:SER:N	16:BG:166:GLU:OE1	2.31	0.56
29:BT:148:ALA:O	29:BT:152:ARG:HG2	2.06	0.56
5:A5:57:LEU:CD1	5:A5:58:ALA:H	2.19	0.56
7:A7:11:ARG:CG	7:A7:15:GLN:HE21	2.19	0.56
7:A7:50:LYS:HG3	7:A7:51:ASP:N	2.20	0.56
9:A9:123:ILE:CD1	9:A9:136:LYS:HD2	2.36	0.56
10:AA:341:G:O2'	10:AA:342:U:OP2	2.24	0.56
10:AA:570:G:C4'	10:AA:574:A:C2	2.88	0.56
10:AA:623:U:C6	10:AA:623:U:H3'	2.41	0.56
10:AA:706:U:H2'	10:AA:707:U:C6	2.41	0.56
10:AA:971:A:C2'	10:AA:972:G:H5'	2.35	0.56
10:AA:1378:U:O2'	10:AA:1379:G:H5'	2.05	0.56
10:AA:1422:C:H2'	10:AA:1423:U:H6	1.70	0.56
10:AA:1693:A:O2'	10:AA:1694:U:H5'	2.06	0.56
11:AB:134:SER:CB	11:AB:152:TYR:CE2	2.89	0.56
16:AG:122:ARG:HH21	16:AG:129:VAL:HG21	1.70	0.56
21:AL:101:VAL:HG13	21:AL:123:VAL:HG13	1.86	0.56
22:AM:14:ILE:CG2	22:AM:22:ILE:HG23	2.35	0.56
23:AN:33:TYR:O	23:AN:34:GLU:HB2	2.05	0.56
26:AQ:107:PRO:CB	26:AQ:133:THR:HB	2.36	0.56
29:AT:45:VAL:HG13	29:AT:98:ALA:O	2.06	0.56
30:AU:86:PHE:CD2	30:AU:94:ILE:HD13	2.41	0.56
2:B2:40:THR:O	2:B2:41:GLN:HG3	2.04	0.56
7:B7:100:ILE:HD13	12:BC:62:ILE:HD11	1.86	0.56
10:BA:683:A:C2	10:BA:718:A:N1	2.73	0.56
10:BA:734:U:N3	10:BA:782:A:C2	2.71	0.56
10:BA:937:U:OP2	24:BO:16:SER:HA	2.06	0.56
10:BA:968:C:O2'	20:BK:141:ARG:HG2	2.06	0.56
10:BA:968:C:H4'	20:BK:141:ARG:O	2.05	0.56
10:BA:1204:U:C2'	10:BA:1205:G:H5'	2.36	0.56
10:BA:1578:C:H2'	10:BA:1579:G:C8	2.41	0.56
12:BC:77:GLN:CA	12:BC:81:GLY:HA2	2.31	0.56
17:BH:130:TYR:O	17:BH:130:TYR:CD1	2.59	0.56
27:BR:75:HIS:CD2	27:BR:101:ARG:HG3	2.41	0.56
32:BW:102:ARG:NE	32:BW:238:ILE:HG21	2.21	0.56
33:BX:58:LYS:HD3	33:BX:62:TRP:CH2	2.40	0.56
34:BY:110:ALA:O	34:BY:111:LEU:HD23	2.06	0.56
3:A3:131:LEU:HD23	3:A3:131:LEU:H	1.71	0.56
5:A5:8:ALA:CB	10:AA:1744:U:H5'	2.36	0.56
10:AA:381:G:H22	10:AA:398:A:N6	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:906:U:C2'	10:AA:907:A:OP2	2.54	0.56
10:AA:1027:U:C2'	10:AA:1028:G:H5"	2.36	0.56
10:AA:1069:U:H4'	10:AA:1070:U:O5'	2.05	0.56
10:AA:1373:G:H2'	10:AA:1374:C:C6	2.40	0.56
10:AA:1578:C:H2'	10:AA:1579:G:C8	2.41	0.56
11:AB:37:GLY:N	11:AB:41:ILE:O	2.39	0.56
12:AC:8:ILE:HG23	12:AC:12:LYS:HD3	1.88	0.56
12:AC:228:ARG:HG2	27:AR:243:LEU:O	2.06	0.56
20:AK:36:THR:CG2	20:AK:37:TRP:H	2.18	0.56
20:AK:98:ARG:NH2	20:AK:100:LYS:HA	2.20	0.56
20:AK:116:LEU:C	20:AK:116:LEU:CD2	2.79	0.56
22:AM:39:GLY:O	22:AM:40:ARG:C	2.48	0.56
23:AN:38:CYS:SG	23:AN:40:ARG:HG3	2.46	0.56
24:AO:43:ALA:HB1	24:AO:82:CYS:SG	2.45	0.56
26:AQ:17:LEU:HD23	26:AQ:20:LYS:HZ1	1.71	0.56
29:AT:34:ILE:HD11	29:AT:58:TYR:HE1	1.70	0.56
29:AT:111:LEU:HB2	29:AT:117:ILE:HD12	1.88	0.56
32:AW:127:LYS:NZ	32:AW:186:GLN:NE2	2.53	0.56
32:AW:207:PHE:CE2	32:AW:223:ARG:HD3	2.41	0.56
6:B6:68:LYS:HD3	10:BA:1027:U:OP1	2.05	0.56
9:B9:85:LYS:CG	9:B9:86:THR:H	2.12	0.56
10:BA:878:A:O2'	10:BA:894:U:H1'	2.06	0.56
10:BA:1299:C:HO2'	12:BC:162:CYS:CB	2.18	0.56
10:BA:1567:U:O4	38:BA:2471:HOH:O	2.16	0.56
18:BI:36:SER:HB3	18:BI:37:PRO:HD2	1.88	0.56
20:BK:110:PRO:C	20:BK:112:ALA:H	2.14	0.56
22:BM:61:LEU:HB3	22:BM:65:GLN:CB	2.35	0.56
26:BQ:91:HIS:O	26:BQ:99:TYR:HA	2.06	0.56
27:BR:82:LEU:CD2	27:BR:93:SER:HB3	2.35	0.56
31:BV:25:THR:C	31:BV:31:ASN:HD21	2.13	0.56
33:BX:34:ARG:O	33:BX:34:ARG:HG2	2.04	0.56
34:BY:57:ASP:C	34:BY:59:ASP:H	2.13	0.56
4:A4:45:PHE:HZ	20:AK:128:ARG:HH12	1.52	0.56
9:A9:155:UNK:O	9:A9:158:UNK:CG	2.42	0.56
10:AA:28:U:O2'	10:AA:29:G:H5'	2.06	0.56
10:AA:55:U:H4'	10:AA:56:G:O5'	2.06	0.56
10:AA:116:U:H3	32:AW:33:GLN:CD	2.14	0.56
10:AA:231:U:C2'	10:AA:232:G:H5"	2.35	0.56
10:AA:295:U:H1'	26:AQ:68:LYS:CD	2.35	0.56
10:AA:312:C:H4'	10:AA:313:G:C5'	2.36	0.56
10:AA:626:U:P	26:AQ:101:LYS:HE3	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:630:A:O2'	17:AH:58:SER:HB3	2.05	0.56
10:AA:683:A:C2	10:AA:718:A:N1	2.74	0.56
10:AA:1073:G:OP2	17:AH:12:LYS:NZ	2.34	0.56
11:AB:22:THR:CG2	11:AB:23:ILE:N	2.68	0.56
15:AF:17:THR:CG2	15:AF:39:PRO:HD3	2.36	0.56
16:AG:189:LYS:HD3	16:AG:189:LYS:O	2.06	0.56
19:AJ:72:GLU:OE1	19:AJ:73:GLY:N	2.38	0.56
27:AR:49:LYS:HB2	27:AR:77:HIS:O	2.05	0.56
27:AR:256:SER:HG	27:AR:274:THR:HG1	1.51	0.56
27:AR:285:THR:HG22	27:AR:286:GLN:N	2.16	0.56
34:AY:76:LEU:CD2	34:AY:94:ARG:HD2	2.32	0.56
34:AY:77:LEU:O	34:AY:92:ARG:HA	2.05	0.56
35:AZ:91:GLY:O	35:AZ:92:LEU:HG	2.05	0.56
2:B2:12:ARG:O	2:B2:13:ALA:C	2.49	0.56
2:B2:37:LYS:HE2	2:B2:101:THR:CG2	2.36	0.56
2:B2:166:GLN:NE2	2:B2:173:LEU:HD23	2.20	0.56
5:B5:82:HIS:CD2	10:BA:1722:U:H3	2.23	0.56
10:BA:327:G:C2'	10:BA:328:G:C5'	2.81	0.56
10:BA:527:A:H2'	10:BA:528:G:C8	2.40	0.56
10:BA:734:U:O2	10:BA:782:A:H2	1.89	0.56
10:BA:868:U:H2'	10:BA:869:A:H5'	1.88	0.56
10:BA:1081:G:C2	10:BA:1110:A:N1	2.74	0.56
10:BA:1246:C:P	10:BA:1399:G:OP1	2.64	0.56
10:BA:1651:G:H1'	10:BA:1674:A:N6	2.21	0.56
10:BA:1728:U:H3	10:BA:1739:G:H1	1.52	0.56
12:BC:84:ASP:O	12:BC:86:GLN:N	2.39	0.56
12:BC:170:TYR:CG	12:BC:205:VAL:HG21	2.41	0.56
24:BO:143:TYR:HA	24:BO:147:THR:HG21	1.89	0.56
26:BQ:10:GLN:O	26:BQ:11:LYS:HD3	2.06	0.56
27:BR:131:ARG:HA	27:BR:147:ILE:CG2	2.32	0.56
27:BR:251:GLU:O	27:BR:251:GLU:HG3	2.06	0.56
28:BS:49:ARG:HH22	28:BS:87:SER:HB2	1.71	0.56
30:BU:102:SER:C	30:BU:103:LEU:HD23	2.30	0.56
34:BY:179:ILE:O	34:BY:180:GLN:C	2.49	0.56
1:A1:12:MET:CB	1:A1:28:ARG:HG2	2.27	0.55
2:A2:191:LEU:HB3	2:A2:196:LEU:HD13	1.88	0.55
3:A3:14:LYS:O	3:A3:18:GLN:HG3	2.06	0.55
3:A3:43:THR:HG21	3:A3:97:GLN:CG	2.36	0.55
3:A3:133:PRO:HD2	3:A3:162:PHE:HE2	1.70	0.55
4:A4:37:PRO:HD2	4:A4:101:THR:O	2.06	0.55
10:AA:45:A:O2'	10:AA:46:A:O5'	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:133:A:H61	10:AA:169:G:H2'	1.71	0.55
10:AA:453:G:H5"	32:AW:26:ILE:HD12	1.87	0.55
10:AA:1099:G:O2'	10:AA:1100:U:H5'	2.06	0.55
10:AA:1583:A:O2'	10:AA:1584:U:H5'	2.06	0.55
10:AA:1704:C:O2'	10:AA:1705:A:H5'	2.06	0.55
11:AB:96:SER:CB	11:AB:111:LYS:NZ	2.68	0.55
13:AD:8:THR:HG22	13:AD:9:SER:N	2.12	0.55
14:AE:27:TRP:HH2	14:AE:57:GLU:CD	2.14	0.55
18:AI:112:MET:CE	18:AI:116:ARG:HA	2.35	0.55
19:AJ:108:PRO:O	19:AJ:110:VAL:HG23	2.06	0.55
21:AL:81:LYS:O	21:AL:81:LYS:HD2	2.06	0.55
25:AP:55:VAL:HG23	25:AP:71:ALA:HB2	1.86	0.55
27:AR:251:GLU:O	27:AR:251:GLU:HG3	2.05	0.55
27:AR:275:ASP:CB	27:AR:311:GLN:HG2	2.35	0.55
3:B3:52:LYS:HD2	3:B3:53:THR:H	1.71	0.55
4:B4:182:ALA:HB2	4:B4:190:PHE:HE2	1.71	0.55
10:BA:271:U:C4'	10:BA:272:U:H5'	2.35	0.55
10:BA:643:U:HO2'	10:BA:644:U:P	2.29	0.55
10:BA:1137:A:O2'	10:BA:1138:A:H5'	2.05	0.55
10:BA:1401:U:H5'	10:BA:1402:C:OP2	2.06	0.55
10:BA:1422:C:H2'	10:BA:1423:U:H6	1.71	0.55
10:BA:1753:A:OP1	10:BA:1753:A:C8	2.56	0.55
13:BD:110:GLN:CD	13:BD:126:ARG:HG2	2.31	0.55
14:BE:206:ARG:O	14:BE:208:ARG:N	2.39	0.55
16:BG:37:THR:CG2	16:BG:38:THR:N	2.69	0.55
19:BJ:41:ARG:HH12	19:BJ:103:ASN:C	2.14	0.55
25:BP:55:VAL:HG23	25:BP:71:ALA:HB2	1.88	0.55
30:BU:36:ILE:HG23	30:BU:68:ILE:CD1	2.36	0.55
32:BW:123:TYR:CD2	32:BW:163:LYS:HE2	2.41	0.55
32:BW:210:CYS:CB	32:BW:227:ILE:HD11	2.36	0.55
34:BY:38:GLY:HA3	34:BY:50:PHE:HE1	1.69	0.55
2:A2:39:THR:HB	2:A2:69:CYS:HB3	1.87	0.55
2:A2:194:LYS:HD3	26:AQ:12:GLN:NE2	2.20	0.55
8:A8:27:LYS:HG2	10:AA:1509:U:H5	1.68	0.55
9:A9:77:LYS:HG3	9:A9:78:LYS:N	2.20	0.55
10:AA:47:C:H2'	10:AA:48:C:H6	1.71	0.55
10:AA:147:G:H1	10:AA:155:U:H3	1.54	0.55
10:AA:513:A:H5'	10:AA:513:A:C8	2.39	0.55
10:AA:537:A:O2'	10:AA:538:A:H5'	2.06	0.55
10:AA:1002:U:C2'	10:AA:1003:A:H5'	2.36	0.55
10:AA:1230:U:H2'	10:AA:1231:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1373:G:C4	10:AA:1374:C:C5	2.94	0.55
10:AA:1376:A:H2'	10:AA:1377:A:H8	1.70	0.55
10:AA:1523:U:H5"	28:AS:48:ARG:HH12	1.71	0.55
12:AC:9:ASN:C	12:AC:11:LYS:N	2.64	0.55
14:AE:186:LYS:O	14:AE:190:GLN:HG3	2.05	0.55
17:AH:17:ALA:HA	17:AH:22:LYS:CD	2.36	0.55
22:AM:6:GLU:O	22:AM:10:ASP:HB3	2.07	0.55
22:AM:30:ILE:HD11	38:AM:2001:HOH:O	2.05	0.55
22:AM:94:ASP:OD2	28:AS:16:LYS:HA	2.06	0.55
27:AR:82:LEU:CD2	27:AR:93:SER:HB3	2.36	0.55
29:AT:145:THR:HG22	29:AT:149:ILE:HD11	1.87	0.55
30:AU:35:THR:HG22	30:AU:41:ALA:HB2	1.88	0.55
34:AY:70:ARG:NH2	34:AY:104:PRO:HD3	2.17	0.55
2:B2:93:ALA:HA	26:BQ:9:TYR:HD2	1.71	0.55
10:BA:90:U:P	32:BW:3:ARG:HD2	2.45	0.55
10:BA:625:G:H2'	10:BA:626:U:C6	2.41	0.55
10:BA:717:G:H2'	10:BA:718:A:O4'	2.06	0.55
10:BA:1069:U:H4'	10:BA:1070:U:O5'	2.06	0.55
10:BA:1072:G:N2	17:BH:79:TYR:CZ	2.74	0.55
10:BA:1390:G:C5'	23:BN:55:ARG:HD3	2.37	0.55
24:BO:15:GLY:O	24:BO:16:SER:CB	2.53	0.55
31:BV:42:PRO:HG2	31:BV:43:SER:H	1.71	0.55
31:BV:98:ILE:HG23	31:BV:102:THR:CG2	2.37	0.55
34:BY:184:THR:O	34:BY:188:ILE:HG13	2.07	0.55
2:A2:5:ARG:NH2	10:AA:323:U:O2'	2.39	0.55
2:A2:37:LYS:HE2	2:A2:101:THR:CG2	2.35	0.55
4:A4:73:ALA:CB	20:AK:128:ARG:HH22	2.20	0.55
10:AA:3:C:N4	13:AD:16:ARG:HB2	2.21	0.55
10:AA:44:U:C5	10:AA:428:A:N6	2.74	0.55
10:AA:231:U:C3'	10:AA:232:G:H5"	2.36	0.55
10:AA:318:U:H5'	10:AA:319:A:OP2	2.07	0.55
10:AA:454:C:C2'	10:AA:455:C:C5'	2.85	0.55
10:AA:876:A:C5'	20:AK:60:MET:HE3	2.33	0.55
10:AA:1390:G:H5'	23:AN:55:ARG:HD3	1.87	0.55
10:AA:1679:A:H2'	10:AA:1680:A:C8	2.41	0.55
10:AA:1697:G:H2'	10:AA:1698:G:C8	2.40	0.55
12:AC:10:LYS:HA	12:AC:13:LYS:HG2	1.88	0.55
17:AH:38:LEU:HD22	17:AH:47:ILE:CD1	2.37	0.55
24:AO:74:LEU:HD13	24:AO:74:LEU:O	2.07	0.55
26:AQ:18:ASN:O	26:AQ:21:LYS:N	2.36	0.55
34:AY:74:ARG:HG3	34:AY:96:SER:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:91:PHE:O	34:AY:92:ARG:C	2.48	0.55
34:AY:141:ILE:HG21	34:AY:156:ILE:HG23	1.88	0.55
34:AY:176:CYS:SG	34:AY:177:PRO:HD2	2.47	0.55
2:B2:89:VAL:HA	2:B2:110:VAL:HG13	1.89	0.55
2:B2:143:LYS:HG3	2:B2:144:SER:N	2.21	0.55
5:B5:24:THR:HG21	5:B5:73:LEU:CD1	2.35	0.55
10:BA:231:U:C3'	10:BA:232:G:H5"	2.36	0.55
10:BA:447:C:O2	10:BA:447:C:C2'	2.54	0.55
10:BA:466:A:OP1	13:BD:145:SER:HB2	2.06	0.55
10:BA:492:C:O2'	10:BA:493:U:H5'	2.05	0.55
10:BA:764:U:C2	10:BA:766:G:C2	2.95	0.55
10:BA:883:A:N6	10:BA:884:A:C2	2.74	0.55
10:BA:1720:G:H4'	10:BA:1721:G:O5'	2.06	0.55
11:BB:5:ARG:CG	11:BB:187:LYS:HZ1	2.18	0.55
11:BB:37:GLY:N	11:BB:41:ILE:O	2.40	0.55
12:BC:80:PHE:N	12:BC:80:PHE:CD1	2.74	0.55
13:BD:116:LEU:O	13:BD:118:LEU:N	2.39	0.55
18:BI:43:PRO:C	18:BI:45:ILE:N	2.63	0.55
26:BQ:39:LEU:HA	32:BW:204:GLN:HE21	1.68	0.55
30:BU:11:VAL:O	30:BU:15:VAL:HG23	2.06	0.55
32:BW:117:SER:O	32:BW:119:GLU:N	2.39	0.55
5:A5:77:ILE:HD12	5:A5:77:ILE:N	2.21	0.55
10:AA:57:U:H3	10:AA:85:G:H1	1.54	0.55
10:AA:544:G:C6	10:AA:576:U:C5	2.94	0.55
10:AA:1178:U:H4'	23:AN:26:ARG:HH11	1.71	0.55
11:AB:13:LEU:HA	11:AB:169:MET:HE1	1.88	0.55
12:AC:77:GLN:CA	12:AC:81:GLY:HA2	2.31	0.55
13:AD:123:HIS:O	13:AD:124:HIS:C	2.47	0.55
14:AE:42:ILE:O	14:AE:44:SER:N	2.39	0.55
16:AG:153:CYS:O	16:AG:167:THR:HG21	2.05	0.55
16:AG:200:ARG:OXT	16:AG:200:ARG:HG3	2.07	0.55
17:AH:125:ILE:CG2	17:AH:126:LEU:N	2.69	0.55
21:AL:132:LEU:HD21	21:AL:136:LYS:HE3	1.87	0.55
24:AO:13:ILE:HD12	24:AO:13:ILE:N	2.22	0.55
24:AO:143:TYR:HA	24:AO:147:THR:HB	1.87	0.55
24:AO:143:TYR:HA	24:AO:147:THR:HG21	1.88	0.55
25:AP:10:ILE:HG12	25:AP:21:LEU:HB3	1.88	0.55
26:AQ:117:LYS:HB3	26:AQ:120:ASP:OD2	2.06	0.55
27:AR:94:SER:CB	27:AR:124:VAL:HG23	2.27	0.55
29:AT:69:TYR:HA	29:AT:132:ILE:CG2	2.37	0.55
2:B2:196:LEU:HG	2:B2:200:ILE:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:169:ALA:O	3:B3:173:ILE:HG13	2.06	0.55
5:B5:10:ARG:HH11	5:B5:12:GLN:NE2	2.04	0.55
5:B5:38:ARG:CZ	10:BA:1751:U:C5	2.89	0.55
6:B6:23:ILE:HG23	24:BO:20:PHE:HD2	1.71	0.55
6:B6:52:ILE:CG1	6:B6:62:CYS:HB2	2.35	0.55
10:BA:71:U:H2'	10:BA:71:U:O2	2.06	0.55
10:BA:84:U:H6	10:BA:84:U:C5'	2.18	0.55
10:BA:431:U:O4'	10:BA:457:G:N2	2.36	0.55
10:BA:453:G:H5"	32:BW:26:ILE:CD1	2.36	0.55
10:BA:546:G:C4	10:BA:547:C:C5	2.94	0.55
10:BA:837:A:O2'	10:BA:838:U:P	2.63	0.55
10:BA:865:A:H2'	10:BA:866:U:H6	1.71	0.55
10:BA:955:A:N6	10:BA:1003:A:C5	2.74	0.55
10:BA:1080:G:H4'	10:BA:1081:G:O5'	2.07	0.55
10:BA:1178:U:O4	10:BA:1426:G:O6	2.25	0.55
10:BA:1277:U:O2'	10:BA:1278:C:OP1	2.23	0.55
10:BA:1488:A:O2'	10:BA:1489:U:P	2.65	0.55
10:BA:1510:U:C2'	10:BA:1511:A:O5'	2.54	0.55
10:BA:1511:A:H4'	10:BA:1512:G:H5'	1.87	0.55
12:BC:215:ILE:HD12	31:BV:15:SER:HB2	1.88	0.55
16:BG:68:ILE:HG23	16:BG:84:CYS:HB3	1.88	0.55
16:BG:184:TRP:CD1	16:BG:188:LYS:HZ1	2.25	0.55
22:BM:93:LYS:O	28:BS:16:LYS:HB2	2.06	0.55
23:BN:20:CYS:O	23:BN:21:ARG:C	2.49	0.55
27:BR:24:VAL:O	27:BR:313:THR:HB	2.07	0.55
27:BR:197:LYS:HA	27:BR:207:TYR:O	2.05	0.55
27:BR:274:THR:HG23	27:BR:276:GLN:N	2.21	0.55
30:BU:108:TYR:HE2	30:BU:120:ILE:HD13	1.70	0.55
32:BW:69:GLU:O	32:BW:70:GLN:HB2	2.06	0.55
1:A1:42:ILE:N	1:A1:63:GLU:HG3	2.17	0.55
1:A1:46:LYS:NZ	16:AG:140:ARG:HH21	2.05	0.55
2:A2:22:ARG:NH1	2:A2:25:ARG:NH1	2.49	0.55
4:A4:162:ALA:O	4:A4:163:LYS:C	2.50	0.55
10:AA:174:A:H8	10:AA:174:A:O5'	1.89	0.55
10:AA:295:U:H1'	26:AQ:68:LYS:HD3	1.89	0.55
10:AA:719:G:N2	10:AA:720:U:C2	2.75	0.55
10:AA:1324:U:H2'	10:AA:1325:G:C8	2.42	0.55
12:AC:119:ARG:NH1	14:AE:123:GLN:H	2.03	0.55
13:AD:69:ARG:HH21	13:AD:92:LYS:NZ	2.05	0.55
20:AK:77:ALA:O	20:AK:81:VAL:HG23	2.06	0.55
24:AO:29:HIS:O	24:AO:30:MET:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:117:SER:C	32:AW:119:GLU:H	2.15	0.55
4:B4:136:TYR:CD2	4:B4:187:ILE:HG12	2.41	0.55
7:B7:11:ARG:CG	7:B7:15:GLN:HE21	2.20	0.55
7:B7:50:LYS:HG3	7:B7:51:ASP:N	2.21	0.55
9:B9:126:ALA:N	9:B9:133:TYR:O	2.32	0.55
10:BA:83:C:O2'	10:BA:163:A:N6	2.39	0.55
10:BA:782:A:H2'	10:BA:783:U:O4'	2.07	0.55
10:BA:1422:C:H2'	10:BA:1423:U:C6	2.42	0.55
10:BA:1536:U:H2'	10:BA:1537:C:H6	1.70	0.55
10:BA:1603:A:N7	10:BA:1717:C:C1'	2.69	0.55
10:BA:1711:U:O2'	10:BA:1712:C:H5'	2.06	0.55
10:BA:1746:G:C2'	10:BA:1747:A:H5"	2.37	0.55
12:BC:35:ALA:HB1	12:BC:57:LYS:HB2	1.89	0.55
12:BC:125:ILE:HD12	12:BC:125:ILE:N	2.16	0.55
14:BE:61:ILE:HD11	14:BE:134:LYS:O	2.06	0.55
22:BM:44:TYR:CD2	29:BT:49:LEU:HD11	2.41	0.55
24:BO:22:ARG:HA	24:BO:67:PHE:HE2	1.65	0.55
25:BP:53:VAL:HG22	25:BP:73:VAL:HG22	1.88	0.55
28:BS:31:GLU:HG3	28:BS:32:LYS:HG2	1.88	0.55
28:BS:70:GLU:HG3	28:BS:71:LYS:H	1.71	0.55
32:BW:249:THR:HG22	32:BW:251:LEU:H	1.70	0.55
34:BY:74:ARG:HG3	34:BY:96:SER:HB3	1.88	0.55
2:A2:42:SER:HA	2:A2:45:ILE:CG1	2.33	0.55
3:A3:130:LEU:C	3:A3:132:LEU:N	2.62	0.55
3:A3:152:ARG:HG3	3:A3:154:GLN:HE22	1.70	0.55
5:A5:58:ALA:HB3	20:AK:126:ILE:C	2.32	0.55
7:A7:14:LYS:HG2	7:A7:80:LEU:HD11	1.89	0.55
7:A7:25:LYS:HE3	7:A7:27:ASP:HB3	1.88	0.55
7:A7:56:GLU:OE1	7:A7:56:GLU:HA	2.06	0.55
8:A8:67:SER:O	8:A8:71:GLU:HG2	2.07	0.55
10:AA:73:A:C2	34:AY:162:ARG:NH1	2.74	0.55
10:AA:436:C:H2'	38:AA:2218:HOH:O	2.05	0.55
10:AA:633:U:C4'	10:AA:634:C:H5"	2.34	0.55
10:AA:734:U:O2	10:AA:782:A:H2	1.88	0.55
10:AA:874:U:H2'	10:AA:874:U:O2	2.05	0.55
10:AA:1380:G:N2	10:AA:1383:G:OP2	2.39	0.55
10:AA:1390:G:C5'	23:AN:55:ARG:HD3	2.37	0.55
10:AA:1421:G:H4'	23:AN:6:TRP:HB2	1.89	0.55
10:AA:1501:C:OP2	16:AG:86:LYS:NZ	2.39	0.55
10:AA:1661:G:N3	10:AA:1661:G:C3'	2.69	0.55
16:AG:189:LYS:O	16:AG:193:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AJ:19:VAL:HB	19:AJ:91:LEU:HB2	1.89	0.55
25:AP:147:VAL:O	25:AP:148:ALA:CB	2.55	0.55
28:AS:31:GLU:HG3	28:AS:32:LYS:HG2	1.88	0.55
32:AW:213:LYS:HG2	32:AW:214:ASP:H	1.71	0.55
34:AY:167:THR:HG22	34:AY:168:ALA:N	2.21	0.55
2:B2:42:SER:HA	2:B2:45:ILE:CG1	2.34	0.55
3:B3:43:THR:HG21	3:B3:97:GLN:CG	2.37	0.55
5:B5:8:ALA:CB	10:BA:1744:U:H5'	2.36	0.55
5:B5:26:CYS:SG	5:B5:28:ARG:HB2	2.47	0.55
9:B9:77:LYS:HG3	9:B9:78:LYS:N	2.22	0.55
9:B9:133:TYR:CE1	9:B9:138:HIS:HA	2.41	0.55
10:BA:3:C:N4	13:BD:16:ARG:HB2	2.22	0.55
10:BA:226:A:C5	10:BA:227:G:H1'	2.42	0.55
10:BA:512:C:C3'	10:BA:513:A:C5'	2.83	0.55
10:BA:525:U:H5"	25:BP:63:GLY:CA	2.36	0.55
10:BA:537:A:O2'	10:BA:538:A:H5'	2.06	0.55
10:BA:851:U:O4	10:BA:932:G:O6	2.23	0.55
10:BA:906:U:OP2	10:BA:906:U:H6	1.89	0.55
10:BA:1110:A:O2'	10:BA:1111:A:O4'	2.24	0.55
10:BA:1555:A:O2'	10:BA:1556:G:P	2.64	0.55
14:BE:57:GLU:HB2	14:BE:60:ILE:CG1	2.33	0.55
16:BG:13:LEU:HB2	16:BG:19:TYR:CE1	2.42	0.55
16:BG:81:LYS:O	16:BG:82:ALA:C	2.50	0.55
17:BH:110:ILE:O	17:BH:111:LEU:HD23	2.06	0.55
20:BK:66:ARG:HG3	20:BK:67:GLU:OE1	2.07	0.55
21:BL:132:LEU:HD21	21:BL:136:LYS:HE3	1.89	0.55
26:BQ:73:LEU:HD11	26:BQ:119:GLY:C	2.32	0.55
29:BT:14:ALA:O	29:BT:17:ASP:HB3	2.06	0.55
29:BT:111:LEU:CD2	29:BT:116:ILE:HD12	2.36	0.55
30:BU:15:VAL:HG22	30:BU:112:ILE:HD13	1.88	0.55
6:A6:68:LYS:HD3	10:AA:1027:U:OP1	2.06	0.55
10:AA:39:A:C2	10:AA:461:C:C6	2.95	0.55
10:AA:424:A:H2'	10:AA:425:A:H8	1.72	0.55
10:AA:553:A:N3	10:AA:553:A:H2'	2.21	0.55
10:AA:734:U:N3	10:AA:735:G:N7	2.55	0.55
10:AA:749:G:C5	10:AA:754:A:C2	2.95	0.55
10:AA:786:A:O2'	10:AA:787:A:OP1	2.20	0.55
10:AA:1133:C:O2'	10:AA:1134:C:H5'	2.07	0.55
10:AA:1293:A:C4	11:AB:101:PRO:HB2	2.41	0.55
10:AA:1721:G:H21	20:AK:151:LEU:HD12	1.71	0.55
12:AC:213:VAL:HG12	12:AC:213:VAL:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AE:228:PRO:CD	17:AH:99:PHE:CE2	2.90	0.55
16:AG:13:LEU:HB2	16:AG:19:TYR:CE1	2.41	0.55
16:AG:37:THR:CG2	16:AG:38:THR:N	2.69	0.55
17:AH:25:VAL:CG2	17:AH:65:LEU:HD11	2.36	0.55
17:AH:76:SER:HB2	17:AH:77:PRO:CD	2.32	0.55
19:AJ:23:LEU:HD22	19:AJ:112:ILE:HG12	1.88	0.55
20:AK:118:ALA:HA	20:AK:121:ARG:HG2	1.88	0.55
24:AO:107:ASN:C	24:AO:109:LYS:H	2.13	0.55
27:AR:111:TYR:CE1	27:AR:112:LYS:HG2	2.41	0.55
29:AT:14:ALA:O	29:AT:17:ASP:HB3	2.06	0.55
2:B2:25:ARG:NH2	10:BA:376:A:OP1	2.38	0.55
2:B2:117:PHE:CE2	2:B2:190:ILE:HD11	2.42	0.55
3:B3:5:LYS:O	3:B3:6:PHE:CD1	2.59	0.55
3:B3:95:THR:HG22	3:B3:96:ALA:O	2.07	0.55
4:B4:175:ASN:N	4:B4:175:ASN:HD22	2.05	0.55
5:B5:45:VAL:HG21	5:B5:53:ILE:HD12	1.87	0.55
8:B8:38:LYS:HE2	10:BA:1507:U:H5'	1.88	0.55
8:B8:57:PRO:HB3	8:B8:87:MET:HE3	1.88	0.55
10:BA:574:A:H3'	10:BA:575:U:C5'	2.37	0.55
10:BA:586:A:H2'	10:BA:587:U:H5'	1.87	0.55
10:BA:653:U:N3	10:BA:656:G:N2	2.54	0.55
10:BA:867:U:C5'	10:BA:867:U:C6	2.88	0.55
10:BA:1027:U:C2	10:BA:1042:G:N2	2.74	0.55
10:BA:1716:A:N6	10:BA:1717:C:N4	2.55	0.55
10:BA:1744:U:O2'	10:BA:1745:G:O5'	2.24	0.55
12:BC:28:PHE:CE1	12:BC:53:ILE:HD11	2.42	0.55
12:BC:40:ILE:CG2	12:BC:42:VAL:HG23	2.34	0.55
12:BC:145:LEU:HD11	12:BC:153:MET:HB2	1.87	0.55
14:BE:228:PRO:HD3	17:BH:99:PHE:CE2	2.41	0.55
18:BI:145:ARG:HD2	18:BI:145:ARG:N	2.22	0.55
19:BJ:18:ARG:O	19:BJ:18:ARG:HG3	2.07	0.55
25:BP:131:THR:HG22	25:BP:132:TRP:N	2.21	0.55
27:BR:134:LEU:HG	27:BR:142:ILE:CG2	2.36	0.55
28:BS:91:ILE:O	28:BS:94:LEU:HB2	2.06	0.55
34:BY:91:PHE:O	34:BY:92:ARG:C	2.50	0.55
1:A1:58:MET:HB3	16:AG:197:LYS:NZ	2.22	0.55
5:A5:66:ILE:HG22	5:A5:67:PRO:O	2.07	0.55
8:A8:26:GLY:HA3	8:A8:29:LYS:HD2	1.87	0.55
10:AA:437:A:H2'	10:AA:437:A:N3	2.22	0.55
10:AA:653:U:N3	10:AA:656:G:N2	2.54	0.55
10:AA:766:G:HO2'	10:AA:767:C:H5'	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:851:U:O4	10:AA:932:G:O6	2.24	0.55
10:AA:1453:C:O2'	18:AI:79:GLN:NE2	2.39	0.55
11:AB:5:ARG:NH2	11:AB:12:ARG:HH22	2.03	0.55
12:AC:184:ILE:CG2	12:AC:185:MET:N	2.70	0.55
13:AD:128:LEU:O	13:AD:130:ARG:N	2.40	0.55
13:AD:171:ARG:CB	13:AD:175:LYS:HZ2	2.20	0.55
14:AE:74:GLU:C	14:AE:76:LYS:N	2.64	0.55
14:AE:99:PHE:O	14:AE:118:VAL:HA	2.07	0.55
14:AE:135:LEU:HD23	14:AE:135:LEU:N	2.20	0.55
16:AG:24:ILE:HD12	16:AG:30:GLN:HA	1.87	0.55
16:AG:120:SER:OG	16:AG:196:ALA:HA	2.06	0.55
17:AH:38:LEU:O	17:AH:47:ILE:HD11	2.06	0.55
18:AI:145:ARG:N	18:AI:145:ARG:HD2	2.22	0.55
21:AL:51:LEU:HD21	21:AL:76:ARG:HE	1.70	0.55
27:AR:161:HIS:HB3	27:AR:197:LYS:HE2	1.89	0.55
28:AS:88:MET:SD	28:AS:89:ILE:N	2.79	0.55
2:B2:106:LYS:O	2:B2:176:ILE:HB	2.06	0.55
10:BA:221:A:N6	10:BA:814:A:N6	2.55	0.55
10:BA:359:U:C2'	10:BA:360:U:H5'	2.36	0.55
10:BA:604:G:N2	10:BA:1080:G:H22	2.05	0.55
10:BA:1249:G:H3'	10:BA:1250:G:C8	2.41	0.55
10:BA:1398:A:OP2	10:BA:1398:A:H4'	2.06	0.55
10:BA:1425:G:O3'	28:BS:127:THR:CG2	2.55	0.55
10:BA:1556:G:HO2'	10:BA:1557:U:P	2.25	0.55
13:BD:93:LEU:HD23	13:BD:96:VAL:CG2	2.36	0.55
16:BG:50:ARG:HG2	16:BG:53:VAL:HG21	1.89	0.55
18:BI:32:LYS:HE3	18:BI:35:GLY:HA2	1.89	0.55
21:BL:56:ILE:HG22	21:BL:57:GLY:N	2.20	0.55
24:BO:13:ILE:HD12	24:BO:13:ILE:N	2.22	0.55
24:BO:143:TYR:HA	24:BO:147:THR:HB	1.88	0.55
27:BR:241:ASP:OD2	27:BR:243:LEU:HB2	2.07	0.55
29:BT:146:GLN:O	29:BT:150:LYS:HG3	2.07	0.55
34:BY:91:PHE:O	34:BY:91:PHE:CD1	2.60	0.55
35:BZ:20:LYS:O	35:BZ:22:GLU:HG3	2.07	0.55
35:BZ:61:THR:O	35:BZ:63:SER:N	2.35	0.55
1:A1:19:GLY:O	1:A1:22:GLY:N	2.40	0.55
3:A3:178:THR:HG22	3:A3:180:ARG:HG3	1.89	0.55
4:A4:128:VAL:HG22	4:A4:175:ASN:CG	2.32	0.55
4:A4:181:GLU:HG2	4:A4:199:TYR:HE2	1.68	0.55
5:A5:9:GLY:HA3	10:AA:1748:U:C4	2.41	0.55
10:AA:63:U:C5'	10:AA:64:U:OP2	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:226:A:C5	10:AA:227:G:H1'	2.41	0.55
10:AA:494:A:C2	33:AX:48:HIS:HB3	2.42	0.55
10:AA:625:G:H2'	10:AA:626:U:C6	2.41	0.55
10:AA:685:A:C2	10:AA:716:G:O6	2.60	0.55
10:AA:762:U:H2'	10:AA:763:U:OP2	2.07	0.55
10:AA:833:A:C2'	10:AA:834:A:OP1	2.53	0.55
10:AA:955:A:C2'	10:AA:956:A:C5'	2.76	0.55
10:AA:1197:A:H2'	10:AA:1198:A:H8	1.71	0.55
10:AA:1453:C:C1'	18:AI:79:GLN:NE2	2.70	0.55
10:AA:1746:G:C2'	10:AA:1747:A:H5"	2.37	0.55
12:AC:215:ILE:HA	31:AV:39:ALA:HB2	1.89	0.55
16:AG:34:ALA:H	16:AG:63:ILE:CG1	2.20	0.55
25:AP:98:LYS:HD3	25:AP:98:LYS:H	1.70	0.55
27:AR:91:ALA:HB2	27:AR:105:LEU:HD11	1.87	0.55
27:AR:238:LEU:HG	27:AR:248:PRO:HB3	1.88	0.55
31:AV:35:LEU:HD11	31:AV:50:ILE:HB	1.88	0.55
31:AV:107:LYS:HG2	31:AV:112:GLN:CB	2.37	0.55
32:AW:187:GLN:C	32:AW:191:ILE:HG22	2.31	0.55
34:AY:150:GLU:CD	34:AY:150:GLU:H	2.13	0.55
2:B2:26:ALA:HA	10:BA:391:A:C2	2.42	0.55
9:B9:128:HIS:HE1	10:BA:1222:U:H1'	1.71	0.55
10:BA:123:A:H3'	10:BA:124:U:C6	2.42	0.55
10:BA:207:U:H2'	10:BA:208:A:C8	2.42	0.55
10:BA:312:C:H4'	10:BA:313:G:C5'	2.37	0.55
10:BA:315:U:O2'	26:BQ:79:MET:HE1	2.07	0.55
10:BA:607:G:OP2	10:BA:1071:U:H2'	2.07	0.55
10:BA:674:U:H5'	10:BA:675:A:OP2	2.06	0.55
10:BA:986:G:OP1	20:BK:149:ARG:NE	2.40	0.55
10:BA:1650:G:H2'	10:BA:1651:G:O4'	2.07	0.55
10:BA:1707:G:H2'	10:BA:1708:A:C8	2.41	0.55
10:BA:1752:U:O3'	10:BA:1753:A:C8	2.60	0.55
11:BB:2:ALA:HB1	35:BZ:97:GLU:HB2	1.89	0.55
11:BB:180:ILE:HG22	35:BZ:58:GLY:O	2.07	0.55
14:BE:153:HIS:HB2	14:BE:196:ASP:OD2	2.07	0.55
16:BG:32:TYR:O	16:BG:33:ILE:HD12	2.07	0.55
17:BH:56:HIS:CE1	24:BO:22:ARG:HE	2.25	0.55
22:BM:12:LYS:HB2	22:BM:15:HIS:NE2	2.22	0.55
24:BO:116:ARG:HH11	24:BO:116:ARG:HG3	1.72	0.55
27:BR:237:LEU:HD23	27:BR:238:LEU:N	2.21	0.55
28:BS:56:GLU:CD	28:BS:56:GLU:H	2.15	0.55
29:BT:83:PHE:CZ	29:BT:85:SER:HB2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:195:GLY:HA3	32:BW:213:LYS:O	2.07	0.55
32:BW:255:LYS:O	32:BW:259:SER:HA	2.07	0.55
2:A2:155:LYS:O	2:A2:156:ALA:C	2.50	0.55
10:AA:122:A:N7	34:AY:201:ARG:CZ	2.70	0.55
10:AA:133:A:N6	10:AA:169:G:O2'	2.40	0.55
10:AA:1064:A:O2'	10:AA:1065:A:C5'	2.55	0.55
10:AA:1076:U:OP2	21:AL:6:PRO:HB3	2.07	0.55
10:AA:1079:G:H2'	10:AA:1080:G:C8	2.42	0.55
10:AA:1229:U:O2	10:AA:1229:U:C2'	2.54	0.55
10:AA:1299:C:O2'	12:AC:162:CYS:HB2	2.06	0.55
10:AA:1511:A:OP2	10:AA:1511:A:C8	2.60	0.55
10:AA:1608:C:N4	10:AA:1718:A:H2	2.00	0.55
10:AA:1654:U:H2'	10:AA:1655:G:C8	2.42	0.55
10:AA:1752:U:O3'	10:AA:1753:A:C8	2.60	0.55
11:AB:5:ARG:CZ	11:AB:176:ARG:HH21	2.20	0.55
12:AC:36:GLY:O	12:AC:55:ALA:CA	2.55	0.55
25:AP:19:ARG:NE	25:AP:73:VAL:HG11	2.20	0.55
27:AR:197:LYS:HA	27:AR:207:TYR:O	2.07	0.55
31:AV:26:ASN:HD21	31:AV:62:GLN:NE2	2.05	0.55
31:AV:89:SER:C	31:AV:91:ILE:N	2.64	0.55
32:AW:210:CYS:CB	32:AW:227:ILE:HD11	2.37	0.55
34:AY:110:ALA:O	34:AY:111:LEU:HD23	2.06	0.55
3:B3:43:THR:HG21	3:B3:97:GLN:OE1	2.07	0.55
7:B7:99:PHE:HZ	12:BC:69:HIS:HE2	1.55	0.55
8:B8:57:PRO:CB	8:B8:87:MET:HE1	2.32	0.55
10:BA:536:C:O2'	10:BA:537:A:OP1	2.21	0.55
10:BA:1249:G:H3'	10:BA:1250:G:H8	1.72	0.55
10:BA:1358:A:O2'	10:BA:1359:C:OP2	2.24	0.55
11:BB:21:ALA:HB1	11:BB:145:ASP:OD2	2.07	0.55
12:BC:8:ILE:HG23	12:BC:12:LYS:HD3	1.88	0.55
14:BE:184:ILE:HG23	14:BE:212:LEU:HD21	1.89	0.55
15:BF:39:PRO:HG2	15:BF:42:PHE:HE1	1.72	0.55
16:BG:189:LYS:O	16:BG:193:GLU:HG3	2.06	0.55
24:BO:13:ILE:C	24:BO:14:SER:O	2.48	0.55
24:BO:74:LEU:HD13	24:BO:74:LEU:O	2.07	0.55
27:BR:56:LEU:HD11	27:BR:65:PHE:CZ	2.42	0.55
27:BR:252:PHE:HB3	27:BR:281:PHE:HE2	1.72	0.55
28:BS:66:ARG:HH12	28:BS:93:GLU:CB	2.19	0.55
28:BS:101:VAL:CG2	28:BS:121:LEU:HD11	2.34	0.55
29:BT:69:TYR:HA	29:BT:132:ILE:CG2	2.36	0.55
32:BW:188:GLY:N	32:BW:191:ILE:CG2	2.67	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:193:ARG:NH1	32:BW:246:VAL:HG13	2.21	0.55
35:BZ:15:GLY:O	35:BZ:16:LEU:C	2.50	0.55
1:A1:22:GLY:HA3	10:AA:1589:U:H1'	1.89	0.54
2:A2:40:THR:O	2:A2:41:GLN:HG3	2.06	0.54
4:A4:27:SER:HA	20:AK:16:TYR:CE2	2.42	0.54
5:A5:44:MET:HB2	5:A5:66:ILE:HG21	1.89	0.54
10:AA:342:U:C4'	10:AA:343:C:OP2	2.52	0.54
10:AA:670:G:H8	10:AA:670:G:H5'	1.72	0.54
10:AA:878:A:P	20:AK:59:GLY:HA3	2.47	0.54
13:AD:40:ARG:CG	13:AD:41:GLU:H	2.03	0.54
13:AD:93:LEU:HD23	13:AD:96:VAL:CG2	2.37	0.54
14:AE:33:LEU:HD22	14:AE:53:ILE:HG22	1.88	0.54
19:AJ:94:ASN:HB2	19:AJ:96:PRO:HD2	1.87	0.54
22:AM:92:PHE:O	28:AS:15:GLY:HA2	2.07	0.54
25:AP:131:THR:HG22	25:AP:132:TRP:N	2.23	0.54
1:B1:48:ALA:HB3	16:BG:139:MET:HB3	1.89	0.54
1:B1:65:ARG:HG2	1:B1:66:ARG:N	2.21	0.54
10:BA:55:U:H4'	10:BA:56:G:O5'	2.06	0.54
10:BA:147:G:H5"	34:BY:15:CYS:SG	2.47	0.54
10:BA:632:U:OP1	17:BH:32:LYS:CE	2.55	0.54
10:BA:706:U:H2'	10:BA:707:U:C6	2.41	0.54
10:BA:1050:C:H2'	10:BA:1051:G:H8	1.72	0.54
10:BA:1059:A:H2'	10:BA:1060:A:C8	2.42	0.54
10:BA:1366:G:N2	10:BA:1374:C:C2	2.75	0.54
12:BC:225:LYS:HE2	27:BR:210:LYS:H	1.72	0.54
16:BG:22:VAL:HG12	16:BG:23:LYS:N	2.22	0.54
16:BG:197:LYS:C	16:BG:200:ARG:HG2	2.31	0.54
19:BJ:19:VAL:HB	19:BJ:91:LEU:HB2	1.87	0.54
19:BJ:105:ARG:O	19:BJ:105:ARG:HG3	2.07	0.54
23:BN:26:ARG:O	23:BN:30:ILE:HD11	2.07	0.54
29:BT:9:THR:HG22	29:BT:10:VAL:H	1.70	0.54
29:BT:9:THR:CG2	29:BT:10:VAL:N	2.67	0.54
30:BU:81:GLU:CG	30:BU:97:VAL:HG21	2.37	0.54
34:BY:23:LYS:HE2	34:BY:41:LEU:HA	1.88	0.54
5:A5:67:PRO:HD3	20:AK:129:ILE:CD1	2.36	0.54
7:A7:40:LEU:O	7:A7:44:ILE:HG13	2.07	0.54
10:AA:162:A:H5'	34:AY:136:LYS:HB3	1.89	0.54
10:AA:279:A:H2'	10:AA:280:U:O4'	2.07	0.54
10:AA:761:U:N3	10:AA:764:U:H2'	2.22	0.54
11:AB:139:PRO:CD	35:AZ:47:VAL:HG21	2.37	0.54
14:AE:61:ILE:HD11	14:AE:134:LYS:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AE:228:PRO:HD3	17:AH:99:PHE:CE2	2.42	0.54
16:AG:99:THR:O	16:AG:101:ARG:N	2.40	0.54
17:AH:20:MET:HE2	17:AH:20:MET:HA	1.89	0.54
20:AK:138:ASP:O	20:AK:139:SER:OG	2.23	0.54
22:AM:88:ARG:CB	22:AM:100:MET:HE3	2.36	0.54
26:AQ:66:ARG:HH22	26:AQ:128:ARG:HA	1.72	0.54
27:AR:75:HIS:CD2	27:AR:101:ARG:HG3	2.41	0.54
3:B3:133:PRO:HD2	3:B3:162:PHE:HE2	1.72	0.54
5:B5:9:GLY:HA3	10:BA:1748:U:C4	2.42	0.54
5:B5:75:TYR:HB3	5:B5:80:ALA:HB2	1.89	0.54
10:BA:125:U:O2'	10:BA:126:A:OP2	2.24	0.54
10:BA:774:A:O2'	10:BA:775:C:H5'	2.06	0.54
10:BA:1368:A:C2'	10:BA:1369:A:H3'	2.37	0.54
10:BA:1473:G:H22	10:BA:1475:G:H3'	1.70	0.54
14:BE:116:TRP:H	14:BE:132:HIS:CD2	2.16	0.54
14:BE:189:LEU:CD2	14:BE:219:LEU:HD11	2.37	0.54
18:BI:11:THR:HG21	18:BI:90:GLY:N	2.22	0.54
18:BI:26:PRO:CA	18:BI:65:LEU:HD22	2.29	0.54
19:BJ:108:PRO:O	19:BJ:110:VAL:N	2.41	0.54
20:BK:45:THR:HG21	20:BK:49:GLY:HA2	1.89	0.54
1:A1:46:LYS:HZ1	16:AG:140:ARG:HH21	1.55	0.54
10:AA:453:G:H2'	10:AA:454:C:C6	2.42	0.54
10:AA:512:C:C3'	10:AA:513:A:C5'	2.83	0.54
10:AA:717:G:H2'	10:AA:718:A:O4'	2.08	0.54
10:AA:1110:A:O2'	10:AA:1111:A:C5'	2.56	0.54
10:AA:1139:G:C2	10:AA:1140:U:C4	2.95	0.54
10:AA:1469:U:OP1	29:AT:75:GLY:HA3	2.07	0.54
10:AA:1551:U:H2'	10:AA:1552:U:H6	1.72	0.54
12:AC:84:ASP:O	12:AC:86:GLN:N	2.40	0.54
17:AH:87:GLU:CD	17:AH:87:GLU:N	2.61	0.54
20:AK:43:HIS:HE1	20:AK:52:THR:HG23	1.72	0.54
22:AM:94:ASP:CG	28:AS:16:LYS:HD2	2.33	0.54
26:AQ:73:LEU:O	26:AQ:85:ILE:HG23	2.07	0.54
27:AR:265:PRO:C	27:AR:266:LYS:HG3	2.32	0.54
34:AY:139:ASN:HA	34:AY:142:LYS:HE2	1.87	0.54
2:B2:192:GLU:HA	2:B2:196:LEU:HD22	1.89	0.54
3:B3:47:GLU:HG3	3:B3:61:VAL:HG22	1.88	0.54
3:B3:190:LYS:NZ	6:B6:23:ILE:HD12	2.22	0.54
5:B5:44:MET:HB2	5:B5:66:ILE:HG21	1.88	0.54
10:BA:337:G:H2'	10:BA:338:G:H8	1.71	0.54
10:BA:392:A:C8	10:BA:395:G:C6	2.94	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:570:G:O6	21:BL:64:ASN:HA	2.07	0.54
10:BA:623:U:H2'	10:BA:624:A:H5'	1.88	0.54
10:BA:938:U:H2'	10:BA:939:U:H6	1.72	0.54
10:BA:1157:U:O2'	10:BA:1158:U:P	2.66	0.54
10:BA:1313:G:OP1	27:BR:73:THR:HB	2.07	0.54
10:BA:1721:G:H21	20:BK:151:LEU:CD1	2.19	0.54
13:BD:97:LEU:O	13:BD:99:LEU:N	2.35	0.54
14:BE:184:ILE:HG22	14:BE:212:LEU:HD23	1.89	0.54
18:BI:88:SER:O	18:BI:92:VAL:HG23	2.07	0.54
21:BL:106:LEU:HD21	21:BL:121:PHE:C	2.31	0.54
22:BM:39:GLY:O	22:BM:40:ARG:C	2.50	0.54
27:BR:146:ASN:O	27:BR:148:LEU:N	2.40	0.54
32:BW:127:LYS:NZ	32:BW:186:GLN:NE2	2.55	0.54
34:BY:165:PHE:HD1	34:BY:165:PHE:O	1.90	0.54
35:BZ:34:TRP:CD1	35:BZ:82:ALA:HA	2.42	0.54
3:A3:62:LEU:HD11	3:A3:64:TYR:CE1	2.43	0.54
4:A4:31:TRP:NE1	20:AK:16:TYR:O	2.40	0.54
5:A5:57:LEU:HG	5:A5:58:ALA:N	2.23	0.54
9:A9:126:ALA:HB2	10:AA:1224:C:C4'	2.37	0.54
10:AA:527:A:H5"	13:AD:168:ARG:NH2	2.22	0.54
10:AA:644:U:H2'	10:AA:645:C:C6	2.42	0.54
10:AA:867:U:H6	10:AA:867:U:H5"	1.72	0.54
10:AA:1313:G:H4'	27:AR:101:ARG:HH22	1.73	0.54
10:AA:1710:G:H5'	10:AA:1711:U:OP2	2.07	0.54
10:AA:1721:G:N2	20:AK:151:LEU:HD11	2.20	0.54
14:AE:184:ILE:HB	14:AE:185:PRO:HD3	1.89	0.54
16:AG:50:ARG:NH1	18:AI:123:PRO:HG3	2.22	0.54
21:AL:6:PRO:HG2	21:AL:15:LEU:CD2	2.38	0.54
21:AL:42:PHE:CZ	21:AL:103:VAL:HG23	2.42	0.54
21:AL:71:VAL:HG23	21:AL:86:VAL:CG2	2.37	0.54
28:AS:86:ARG:HB3	28:AS:122:ALA:HB2	1.89	0.54
30:AU:26:SER:HB2	30:AU:104:ALA:HB3	1.90	0.54
30:AU:108:TYR:HE2	30:AU:120:ILE:HD13	1.73	0.54
31:AV:114:ILE:CB	31:AV:115:PRO:CD	2.85	0.54
32:AW:36:HIS:CE1	32:AW:87:GLY:HA3	2.43	0.54
32:AW:150:ARG:HG3	32:AW:150:ARG:HH11	1.73	0.54
32:AW:183:CYS:O	32:AW:194:VAL:HA	2.07	0.54
35:AZ:15:GLY:O	35:AZ:16:LEU:C	2.50	0.54
2:B2:79:ASN:O	2:B2:79:ASN:ND2	2.41	0.54
2:B2:127:ILE:HD11	2:B2:153:ARG:HG3	1.89	0.54
3:B3:12:LEU:HB2	3:B3:17:GLU:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B8:65:THR:HG22	8:B8:66:VAL:N	2.23	0.54
8:B8:67:SER:O	8:B8:71:GLU:HG2	2.08	0.54
10:BA:28:U:O2'	10:BA:29:G:H5'	2.08	0.54
10:BA:45:A:O2'	10:BA:46:A:O5'	2.24	0.54
10:BA:479:G:H3'	10:BA:480:A:C8	2.42	0.54
10:BA:570:G:C4'	10:BA:574:A:N3	2.69	0.54
10:BA:600:A:H5'	10:BA:601:G:OP1	2.08	0.54
10:BA:734:U:N3	10:BA:735:G:N7	2.54	0.54
10:BA:1050:C:H2'	10:BA:1051:G:C8	2.42	0.54
10:BA:1256:C:HO2'	10:BA:1257:U:P	2.31	0.54
10:BA:1421:G:H4'	23:BN:6:TRP:CE3	2.42	0.54
10:BA:1556:G:C8	18:BI:124:ARG:HG3	2.42	0.54
12:BC:9:ASN:HD22	12:BC:12:LYS:HD2	1.72	0.54
13:BD:161:THR:HB	13:BD:163:PRO:HD2	1.90	0.54
25:BP:9:LYS:O	25:BP:21:LEU:HA	2.08	0.54
27:BR:161:HIS:HB3	27:BR:197:LYS:HE2	1.90	0.54
28:BS:60:LYS:HZ3	28:BS:64:LYS:CE	2.19	0.54
28:BS:92:PRO:O	28:BS:95:VAL:HG23	2.07	0.54
29:BT:145:THR:HG22	29:BT:149:ILE:HD11	1.88	0.54
31:BV:25:THR:HG22	31:BV:26:ASN:N	2.20	0.54
31:BV:41:VAL:HG11	31:BV:47:ARG:HB2	1.90	0.54
4:A4:38:ILE:CG2	4:A4:39:PRO:HD2	2.37	0.54
8:A8:76:ASN:ND2	8:A8:78:SER:OG	2.40	0.54
10:AA:132:U:H2'	10:AA:133:A:H8	1.72	0.54
10:AA:895:U:O2'	20:AK:43:HIS:CD2	2.60	0.54
10:AA:923:U:H4'	38:AA:2316:HOH:O	2.08	0.54
10:AA:1511:A:C4	10:AA:1513:G:O6	2.60	0.54
12:AC:205:VAL:HG12	12:AC:206:LYS:H	1.67	0.54
14:AE:58:PRO:HB3	14:AE:131:THR:HG23	1.89	0.54
16:AG:157:ALA:O	16:AG:158:PHE:O	2.25	0.54
22:AM:44:TYR:CD2	29:AT:49:LEU:HD11	2.42	0.54
26:AQ:73:LEU:HD11	26:AQ:119:GLY:C	2.33	0.54
28:AS:70:GLU:HG3	28:AS:71:LYS:H	1.71	0.54
31:AV:42:PRO:HG2	31:AV:43:SER:H	1.73	0.54
2:B2:140:ASN:CG	10:BA:182:U:H3	2.15	0.54
2:B2:144:SER:O	2:B2:147:VAL:HG23	2.08	0.54
3:B3:70:TYR:CE2	3:B3:74:LEU:HD11	2.42	0.54
6:B6:52:ILE:HG13	6:B6:62:CYS:HB2	1.90	0.54
10:BA:110:A:H4'	10:BA:111:G:O5'	2.07	0.54
10:BA:132:U:H2'	10:BA:133:A:H8	1.73	0.54
10:BA:246:U:OP1	26:BQ:33:TYR:OH	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:733:G:N2	10:BA:783:U:C2	2.76	0.54
10:BA:1110:A:O2'	10:BA:1111:A:P	2.66	0.54
10:BA:1360:U:HO2'	10:BA:1361:A:H8	1.56	0.54
10:BA:1401:U:H2'	38:BA:2391:HOH:O	2.07	0.54
13:BD:129:ILE:N	13:BD:129:ILE:HD13	2.23	0.54
13:BD:134:ILE:O	13:BD:140:LEU:HD12	2.08	0.54
16:BG:17:TRP:CD1	16:BG:103:PRO:HD2	2.43	0.54
20:BK:27:VAL:O	20:BK:92:ALA:HB3	2.08	0.54
20:BK:30:VAL:HG22	20:BK:94:HIS:HB2	1.89	0.54
22:BM:41:ARG:NE	29:BT:41:THR:HG22	2.23	0.54
26:BQ:18:ASN:O	26:BQ:21:LYS:N	2.37	0.54
32:BW:99:GLN:HB3	32:BW:101:PHE:CE1	2.38	0.54
32:BW:126:LEU:HB3	32:BW:143:THR:CG2	2.38	0.54
33:BX:59:SER:C	33:BX:61:ASN:H	2.15	0.54
3:A3:122:VAL:O	3:A3:125:ALA:HB3	2.08	0.54
5:A5:37:LYS:NZ	10:AA:911:A:OP1	2.41	0.54
6:A6:6:LEU:HD21	17:AH:62:VAL:CG2	2.34	0.54
8:A8:50:VAL:O	8:A8:54:ILE:HG13	2.07	0.54
10:AA:29:G:H4'	21:AL:130:SER:HB3	1.88	0.54
10:AA:105:G:O2'	10:AA:779:A:N1	2.37	0.54
10:AA:804:A:H2'	10:AA:805:G:C8	2.42	0.54
12:AC:73:THR:O	12:AC:77:GLN:HG3	2.08	0.54
14:AE:176:GLY:O	14:AE:178:GLY:N	2.39	0.54
27:AR:296:ALA:HB1	27:AR:310:PRO:CG	2.36	0.54
30:AU:106:ARG:O	30:AU:107:LYS:HG3	2.07	0.54
2:B2:185:ARG:NH1	10:BA:203:U:H1'	2.23	0.54
5:B5:84:ARG:NH1	10:BA:1125:A:H5'	2.15	0.54
7:B7:6:LYS:HD2	10:BA:1228:A:OP1	2.06	0.54
10:BA:1:A:H4'	10:BA:1:A:OP3	2.07	0.54
10:BA:26:U:C3'	10:BA:27:A:H5"	2.38	0.54
10:BA:44:U:C5	10:BA:428:A:N6	2.76	0.54
10:BA:141:A:N1	10:BA:162:A:N6	2.55	0.54
10:BA:514:G:O2'	10:BA:515:U:H5'	2.08	0.54
10:BA:681:G:H22	10:BA:719:G:H21	1.53	0.54
10:BA:804:A:H2'	10:BA:805:G:C8	2.40	0.54
10:BA:1186:G:H5'	10:BA:1216:A:H2	1.73	0.54
10:BA:1418:C:O2'	10:BA:1419:G:P	2.65	0.54
10:BA:1480:U:C2'	10:BA:1481:A:OP2	2.56	0.54
11:BB:181:LEU:HD23	35:BZ:58:GLY:O	2.07	0.54
12:BC:228:ARG:HH21	27:BR:243:LEU:HD22	1.71	0.54
19:BJ:94:ASN:HB2	19:BJ:96:PRO:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:75:LEU:HD11	21:BL:82:ILE:CD1	2.38	0.54
25:BP:56:TYR:HE1	25:BP:70:PHE:HB2	1.70	0.54
26:BQ:17:LEU:HD23	26:BQ:20:LYS:NZ	2.22	0.54
26:BQ:107:PRO:CB	26:BQ:133:THR:HB	2.37	0.54
27:BR:33:GLN:HE22	27:BR:87:GLU:HA	1.72	0.54
27:BR:242:ILE:HG22	27:BR:242:ILE:O	2.07	0.54
31:BV:53:PHE:O	31:BV:56:HIS:HB3	2.08	0.54
4:A4:60:SER:OG	4:A4:94:VAL:HB	2.08	0.54
4:A4:136:TYR:CD2	4:A4:187:ILE:HG12	2.43	0.54
9:A9:155:UNK:HA	9:A9:158:UNK:CG	2.37	0.54
10:AA:623:U:OP2	10:AA:947:C:N4	2.40	0.54
10:AA:774:A:O2'	10:AA:775:C:H5'	2.07	0.54
10:AA:806:U:H2'	10:AA:807:C:C6	2.43	0.54
10:AA:806:U:H2'	10:AA:807:C:H6	1.73	0.54
10:AA:1187:C:H4'	23:AN:3:ASN:O	2.07	0.54
10:AA:1265:U:O4'	11:AB:108:GLN:NE2	2.40	0.54
10:AA:1345:A:C2	10:AA:1346:C:C2	2.95	0.54
10:AA:1608:C:H42	10:AA:1610:G:N2	2.05	0.54
11:AB:59:VAL:HG23	35:AZ:50:ALA:O	2.07	0.54
12:AC:180:PHE:C	12:AC:182:GLN:H	2.16	0.54
18:AI:102:ASN:HB2	27:AR:67:ILE:HG22	1.90	0.54
20:AK:54:VAL:CG1	20:AK:81:VAL:HG13	2.32	0.54
20:AK:103:VAL:HG12	20:AK:142:ARG:CG	2.37	0.54
22:AM:100:MET:HB3	22:AM:105:LEU:HD13	1.90	0.54
26:AQ:70:ILE:HD11	26:AQ:136:PHE:CE1	2.43	0.54
27:AR:8:ASP:O	27:AR:340:THR:HA	2.06	0.54
33:AX:42:ASN:HA	33:AX:46:ALA:HB2	1.90	0.54
34:AY:185:PRO:HG2	34:AY:186:GLU:OE1	2.07	0.54
2:B2:7:SER:HB3	10:BA:327:G:H21	1.72	0.54
2:B2:194:LYS:HG2	26:BQ:4:GLN:NE2	2.22	0.54
5:B5:13:LYS:CG	10:BA:912:A:H1'	2.38	0.54
5:B5:24:THR:HG21	5:B5:73:LEU:HD11	1.90	0.54
7:B7:63:PHE:CD2	12:BC:79:ARG:HD2	2.43	0.54
7:B7:88:ILE:HG23	7:B7:93:LYS:HG3	1.90	0.54
10:BA:623:U:H3	10:BA:948:A:H62	1.48	0.54
10:BA:1077:C:OP2	21:BL:14:LYS:NZ	2.41	0.54
10:BA:1442:A:OP2	16:BG:159:LYS:HE2	2.07	0.54
10:BA:1446:A:H2'	10:BA:1447:C:H6	1.73	0.54
10:BA:1500:C:H5"	16:BG:86:LYS:HZ1	1.73	0.54
10:BA:1540:G:C2'	10:BA:1541:A:OP2	2.56	0.54
10:BA:1608:C:N4	10:BA:1718:A:H2	2.03	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1654:U:H2'	10:BA:1655:G:C8	2.43	0.54
11:BB:20:GLN:HG3	11:BB:41:ILE:HG21	1.90	0.54
12:BC:47:THR:O	12:BC:86:GLN:NE2	2.41	0.54
12:BC:141:ILE:HA	12:BC:186:GLY:O	2.08	0.54
14:BE:42:ILE:O	14:BE:44:SER:N	2.40	0.54
19:BJ:21:ILE:HD11	19:BJ:91:LEU:CD1	2.38	0.54
19:BJ:21:ILE:HA	19:BJ:114:LEU:HD23	1.89	0.54
27:BR:49:LYS:O	27:BR:49:LYS:HG2	2.08	0.54
29:BT:39:GLN:C	29:BT:41:THR:H	2.16	0.54
29:BT:83:PHE:CD1	29:BT:84:GLY:N	2.76	0.54
32:BW:157:LYS:N	32:BW:160:ASP:OD2	2.41	0.54
32:BW:183:CYS:O	32:BW:194:VAL:HA	2.08	0.54
34:BY:31:LYS:HE2	34:BY:68:MET:HE1	1.90	0.54
3:A3:119:LEU:HB2	10:AA:633:U:C6	2.42	0.54
4:A4:80:ASN:HB2	5:A5:62:GLU:OE2	2.08	0.54
8:A8:31:THR:O	8:A8:32:LYS:C	2.51	0.54
8:A8:95:LYS:HG2	8:A8:105:TYR:CZ	2.42	0.54
10:AA:12:U:H2'	10:AA:13:C:C6	2.43	0.54
10:AA:123:A:H5"	10:AA:124:U:OP2	2.07	0.54
10:AA:145:G:C2	10:AA:157:G:N2	2.75	0.54
10:AA:534:A:C3'	10:AA:535:A:H5'	2.13	0.54
10:AA:645:C:H2'	10:AA:646:A:C8	2.43	0.54
10:AA:760:G:N2	10:AA:764:U:N3	2.54	0.54
10:AA:786:A:HO2'	10:AA:787:A:P	2.31	0.54
10:AA:1425:G:O3'	28:AS:127:THR:CG2	2.54	0.54
10:AA:1652:A:N1	10:AA:1674:A:H1'	2.22	0.54
11:AB:160:ASN:HD21	11:AB:162:ARG:HG3	1.73	0.54
13:AD:46:GLN:HG2	13:AD:101:ILE:CD1	2.35	0.54
13:AD:135:LYS:HG2	13:AD:140:LEU:HA	1.90	0.54
15:AF:16:GLN:HE22	22:BM:144:HIS:CE1	2.25	0.54
16:AG:66:ARG:NH2	16:AG:143:ASN:HD21	2.05	0.54
18:AI:121:ALA:O	18:AI:123:PRO:HD3	2.07	0.54
24:AO:68:LEU:HD23	24:AO:68:LEU:O	2.07	0.54
24:AO:80:ASN:C	24:AO:82:CYS:H	2.15	0.54
29:AT:24:SER:HA	29:AT:27:LYS:HG3	1.89	0.54
32:AW:150:ARG:HG3	32:AW:150:ARG:NH1	2.23	0.54
32:AW:206:SER:O	32:AW:207:PHE:CB	2.55	0.54
34:AY:55:GLY:HA3	34:AY:63:MET:CG	2.37	0.54
3:B3:115:ARG:HA	3:B3:118:CYS:SG	2.48	0.54
9:B9:128:HIS:HB3	9:B9:131:ARG:H	1.73	0.54
10:BA:3:C:H1'	14:BE:181:ALA:C	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:787:A:C4	17:BH:106:THR:O	2.61	0.54
10:BA:1111:A:H2'	10:BA:1112:A:H8	1.72	0.54
10:BA:1583:A:C2	10:BA:1584:U:C5	2.95	0.54
11:BB:32:TYR:HD2	11:BB:158:PRO:HG3	1.71	0.54
12:BC:9:ASN:HB2	12:BC:12:LYS:CB	2.37	0.54
17:BH:17:ALA:HA	17:BH:22:LYS:CE	2.38	0.54
20:BK:118:ALA:HA	20:BK:121:ARG:HG2	1.89	0.54
22:BM:6:GLU:O	22:BM:10:ASP:HB3	2.08	0.54
27:BR:256:SER:OG	27:BR:274:THR:OG1	2.25	0.54
32:BW:206:SER:O	32:BW:207:PHE:CB	2.56	0.54
4:A4:117:ILE:HG22	4:A4:117:ILE:O	2.08	0.54
6:A6:34:LYS:HD2	6:A6:76:ALA:CB	2.38	0.54
9:A9:128:HIS:HB3	9:A9:131:ARG:H	1.73	0.54
10:AA:264:U:O2'	10:AA:265:C:H5'	2.08	0.54
10:AA:476:U:H3	10:AA:496:G:H1	1.56	0.54
10:AA:837:A:O2'	10:AA:838:U:P	2.66	0.54
10:AA:1027:U:C2	10:AA:1042:G:N2	2.76	0.54
10:AA:1080:G:H4'	10:AA:1081:G:O5'	2.08	0.54
10:AA:1660:A:H5'	10:AA:1661:G:OP2	2.07	0.54
11:AB:5:ARG:NH2	11:AB:176:ARG:HE	2.06	0.54
15:AF:23:VAL:CG2	15:AF:78:ARG:HD3	2.37	0.54
16:AG:22:VAL:HG12	16:AG:23:LYS:N	2.22	0.54
22:AM:16:ARG:HG3	22:AM:16:ARG:NH1	2.22	0.54
24:AO:117:LEU:HD21	24:AO:121:GLU:CD	2.33	0.54
25:AP:101:THR:HG23	25:AP:105:PHE:CG	2.43	0.54
26:AQ:128:ARG:HB2	26:AQ:129:PRO:HD2	1.89	0.54
28:AS:49:ARG:HH22	28:AS:87:SER:HB2	1.73	0.54
31:AV:77:GLU:C	31:AV:79:GLU:H	2.16	0.54
32:AW:126:LEU:HB3	32:AW:143:THR:HG21	1.89	0.54
4:B4:37:PRO:HD2	4:B4:101:THR:O	2.07	0.54
9:B9:137:CYS:SG	9:B9:139:LEU:HB2	2.48	0.54
10:BA:123:A:H5"	10:BA:124:U:OP2	2.08	0.54
10:BA:150:A:N6	10:BA:409:G:C6	2.76	0.54
10:BA:292:G:H3'	10:BA:293:U:C6	2.40	0.54
10:BA:604:G:N2	21:BL:19:ARG:NH2	2.56	0.54
10:BA:757:C:N4	10:BA:770:G:C4	2.76	0.54
10:BA:761:U:C4	10:BA:764:U:C2	2.95	0.54
10:BA:1064:A:O2'	10:BA:1065:A:C5'	2.55	0.54
10:BA:1138:A:H2'	10:BA:1139:G:O4'	2.08	0.54
10:BA:1204:U:H2'	10:BA:1205:G:H8	1.73	0.54
10:BA:1260:G:H2'	10:BA:1261:U:H5'	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1551:U:H1'	18:BI:141:GLN:NE2	2.23	0.54
13:BD:112:ARG:HD2	13:BD:153:GLU:OE2	2.08	0.54
13:BD:116:LEU:C	13:BD:118:LEU:N	2.64	0.54
13:BD:128:LEU:C	13:BD:130:ARG:N	2.66	0.54
16:BG:153:CYS:O	16:BG:167:THR:HG21	2.07	0.54
16:BG:189:LYS:HD3	16:BG:189:LYS:C	2.32	0.54
19:BJ:49:GLU:HB2	19:BJ:92:THR:OG1	2.07	0.54
20:BK:43:HIS:HE1	20:BK:52:THR:HG23	1.72	0.54
22:BM:38:ILE:HG23	22:BM:42:PHE:HB3	1.90	0.54
26:BQ:66:ARG:HH22	26:BQ:128:ARG:HA	1.72	0.54
32:BW:106:ASP:HB3	32:BW:108:LYS:H	1.72	0.54
34:BY:181:ARG:HG2	34:BY:181:ARG:NH1	2.22	0.54
2:A2:136:THR:CG2	2:A2:138:LEU:HG	2.38	0.54
4:A4:31:TRP:CD2	20:AK:18:PRO:HD3	2.43	0.54
5:A5:8:ALA:HB1	10:AA:1744:U:C5'	2.38	0.54
5:A5:59:PHE:O	5:A5:60:GLU:O	2.26	0.54
10:AA:292:G:H3'	10:AA:293:U:C6	2.41	0.54
10:AA:431:U:C6	10:AA:457:G:N2	2.76	0.54
10:AA:560:C:O2'	33:AX:10:LYS:HE2	2.07	0.54
10:AA:733:G:N2	10:AA:782:A:C6	2.74	0.54
10:AA:747:G:N2	10:AA:755:G:H1	2.05	0.54
10:AA:760:G:O6	25:AP:8:LYS:HG2	2.07	0.54
10:AA:761:U:C4	25:AP:7:THR:HG23	2.43	0.54
10:AA:906:U:H6	10:AA:906:U:OP2	1.91	0.54
10:AA:1050:C:H2'	10:AA:1051:G:C8	2.43	0.54
10:AA:1069:U:O2'	14:AE:169:ARG:NE	2.41	0.54
10:AA:1567:U:H5'	23:AN:29:LEU:CD1	2.36	0.54
19:AJ:21:ILE:HA	19:AJ:114:LEU:HD23	1.89	0.54
19:AJ:108:PRO:O	19:AJ:110:VAL:N	2.41	0.54
26:AQ:21:LYS:C	26:AQ:23:LEU:H	2.16	0.54
27:AR:276:GLN:C	27:AR:294:ILE:HG23	2.33	0.54
28:AS:48:ARG:O	28:AS:52:ARG:HB2	2.08	0.54
32:AW:9:LEU:HD12	32:AW:10:LYS:N	2.22	0.54
5:B5:30:VAL:CG2	5:B5:76:CYS:HB2	2.36	0.54
7:B7:13:TYR:HD2	7:B7:76:LEU:CD2	2.19	0.54
10:BA:303:A:O2'	10:BA:304:U:H5'	2.07	0.54
10:BA:498:C:O2'	10:BA:499:A:OP1	2.23	0.54
10:BA:942:U:HO2'	10:BA:943:U:H5"	1.73	0.54
10:BA:1133:C:O2'	10:BA:1134:C:H5'	2.08	0.54
10:BA:1176:A:H2'	23:BN:9:HIS:HE2	1.71	0.54
10:BA:1178:U:H4'	23:BN:26:ARG:HH11	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1339:G:O2'	10:BA:1340:G:H5'	2.08	0.54
10:BA:1380:G:N2	10:BA:1383:G:OP2	2.40	0.54
10:BA:1745:G:C3'	10:BA:1746:G:C5'	2.82	0.54
12:BC:180:PHE:C	12:BC:182:GLN:H	2.14	0.54
16:BG:101:ARG:O	16:BG:103:PRO:HD3	2.06	0.54
22:BM:29:PRO:HA	22:BM:32:LEU:HD12	1.89	0.54
25:BP:10:ILE:HG12	25:BP:21:LEU:HB3	1.88	0.54
27:BR:8:ASP:HB2	27:BR:343:ASN:ND2	2.23	0.54
28:BS:82:LYS:HB3	28:BS:107:PHE:CE2	2.43	0.54
28:BS:86:ARG:HB3	28:BS:122:ALA:HB2	1.88	0.54
29:BT:15:ALA:CB	29:BT:66:ARG:CZ	2.85	0.54
31:BV:58:MET:HA	31:BV:58:MET:CE	2.30	0.54
31:BV:70:SER:HB2	31:BV:72:LYS:HE3	1.90	0.54
1:A1:65:ARG:HG2	1:A1:66:ARG:N	2.23	0.53
3:A3:52:LYS:HD2	3:A3:53:THR:H	1.73	0.53
3:A3:167:LEU:HD11	3:A3:184:PHE:HB2	1.88	0.53
4:A4:175:ASN:N	4:A4:175:ASN:HD22	2.06	0.53
8:A8:43:VAL:HG11	22:AM:57:ARG:HD2	1.88	0.53
8:A8:87:MET:HE2	8:A8:93:VAL:CG2	2.37	0.53
8:A8:92:LEU:O	8:A8:92:LEU:HD12	2.08	0.53
10:AA:141:A:C2	10:AA:162:A:C6	2.96	0.53
10:AA:551:U:O4	33:AX:62:TRP:HB2	2.08	0.53
10:AA:600:A:H5'	10:AA:601:G:OP1	2.08	0.53
10:AA:632:U:OP1	17:AH:32:LYS:HE3	2.08	0.53
10:AA:729:U:C2	10:AA:789:A:C2	2.96	0.53
10:AA:798:G:O2'	10:AA:799:G:C5'	2.54	0.53
10:AA:812:U:C2'	10:AA:813:U:H5'	2.39	0.53
10:AA:1069:U:O2'	10:AA:1070:U:P	2.66	0.53
10:AA:1313:G:H4'	27:AR:101:ARG:NH2	2.23	0.53
10:AA:1469:U:OP2	29:AT:77:SER:OG	2.25	0.53
10:AA:1572:A:C6	10:AA:1574:C:N3	2.76	0.53
12:AC:41:GLU:HG3	12:AC:54:LYS:HE2	1.90	0.53
12:AC:196:GLU:O	12:AC:206:LYS:HA	2.08	0.53
13:AD:116:LEU:O	13:AD:118:LEU:N	2.40	0.53
13:AD:134:ILE:O	13:AD:140:LEU:HD12	2.07	0.53
27:AR:281:PHE:HA	27:AR:290:PRO:HD2	1.91	0.53
30:AU:11:VAL:O	30:AU:15:VAL:HG23	2.08	0.53
32:AW:102:ARG:CG	32:AW:116:LEU:HD21	2.37	0.53
34:AY:2:LYS:HB3	34:AY:108:VAL:HG22	1.90	0.53
2:B2:21:HIS:CD2	2:B2:21:HIS:N	2.76	0.53
2:B2:155:LYS:O	2:B2:156:ALA:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:61:TRP:HE1	12:BC:26:SER:HB3	1.74	0.53
9:B9:72:LYS:NZ	10:BA:1161:A:OP1	2.34	0.53
10:BA:14:C:O2	10:BA:613:A:H2	1.91	0.53
10:BA:109:U:H5'	26:BQ:66:ARG:HD2	1.88	0.53
10:BA:795:A:H5"	10:BA:796:U:OP1	2.08	0.53
10:BA:942:U:O2	10:BA:942:U:C2'	2.56	0.53
10:BA:1043:U:H2'	10:BA:1044:C:C6	2.43	0.53
10:BA:1054:U:C4'	10:BA:1055:G:OP1	2.57	0.53
10:BA:1080:G:O5'	10:BA:1080:G:C8	2.54	0.53
10:BA:1217:G:O2'	10:BA:1218:C:P	2.66	0.53
14:BE:61:ILE:HD12	14:BE:134:LYS:CB	2.34	0.53
14:BE:230:PHE:CB	35:BZ:13:MET:HE2	2.33	0.53
16:BG:180:THR:HG22	16:BG:180:THR:O	2.08	0.53
25:BP:92:VAL:O	25:BP:92:VAL:HG12	2.09	0.53
25:BP:101:THR:HG23	25:BP:105:PHE:CG	2.43	0.53
26:BQ:21:LYS:CE	26:BQ:31:VAL:HG21	2.33	0.53
28:BS:47:ARG:O	28:BS:51:LYS:HB2	2.09	0.53
28:BS:86:ARG:O	28:BS:122:ALA:HB2	2.08	0.53
28:BS:88:MET:SD	28:BS:89:ILE:N	2.81	0.53
31:BV:41:VAL:HG11	31:BV:47:ARG:HA	1.89	0.53
31:BV:61:ILE:C	31:BV:63:LYS:N	2.58	0.53
33:BX:40:LEU:HA	33:BX:43:ARG:HG2	1.90	0.53
34:BY:35:GLU:HA	34:BY:35:GLU:OE1	2.07	0.53
34:BY:153:PRO:HG2	34:BY:154:ILE:N	2.21	0.53
10:AA:266:G:C4	10:AA:278:G:N2	2.77	0.53
10:AA:733:G:N2	10:AA:783:U:C2	2.77	0.53
10:AA:753:C:C2'	10:AA:754:A:H5'	2.38	0.53
10:AA:1008:A:C5'	10:AA:1009:U:OP2	2.56	0.53
10:AA:1014:A:C2	10:AA:1015:C:C2	2.95	0.53
10:AA:1245:G:O2'	10:AA:1246:C:P	2.66	0.53
10:AA:1480:U:C2'	10:AA:1481:A:OP2	2.56	0.53
10:AA:1725:C:O2	10:AA:1743:A:C2	2.61	0.53
12:AC:104:GLN:OE1	12:AC:104:GLN:HA	2.08	0.53
13:AD:105:MET:HE2	13:AD:108:ARG:HD2	1.90	0.53
16:AG:197:LYS:HD3	16:AG:200:ARG:CZ	2.39	0.53
22:AM:41:ARG:HE	29:AT:41:THR:HG22	1.74	0.53
25:AP:17:SER:OG	25:AP:79:TYR:CD2	2.49	0.53
27:AR:114:PHE:CZ	27:AR:133:ILE:HD13	2.43	0.53
27:AR:193:ASP:OD2	27:AR:195:ARG:HB2	2.07	0.53
29:AT:39:GLN:C	29:AT:41:THR:H	2.16	0.53
32:AW:31:PRO:HB2	32:AW:38:LEU:CD2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:64:LYS:HE2	34:AY:82:SER:O	2.08	0.53
34:AY:71:GLY:HA2	34:AY:98:ARG:NH1	2.23	0.53
2:B2:39:THR:C	2:B2:41:GLN:N	2.66	0.53
4:B4:128:VAL:O	4:B4:139:ARG:HA	2.08	0.53
5:B5:5:ARG:NH2	10:BA:1748:U:OP2	2.40	0.53
8:B8:46:GLU:HB2	22:BM:7:LYS:HE3	1.89	0.53
10:BA:132:U:H2'	10:BA:133:A:C8	2.43	0.53
10:BA:353:G:H8	10:BA:353:G:O5'	1.91	0.53
10:BA:431:U:C6	10:BA:457:G:N2	2.76	0.53
10:BA:642:G:H8	10:BA:642:G:OP2	1.90	0.53
10:BA:749:G:C5	10:BA:754:A:C2	2.95	0.53
10:BA:794:A:N3	10:BA:836:G:H1'	2.23	0.53
10:BA:1014:A:C2	10:BA:1015:C:C2	2.97	0.53
10:BA:1629:G:H2'	10:BA:1630:A:C8	2.43	0.53
11:BB:59:VAL:HG23	35:BZ:50:ALA:O	2.09	0.53
12:BC:77:GLN:O	12:BC:81:GLY:CA	2.56	0.53
13:BD:153:GLU:HG2	13:BD:153:GLU:O	2.08	0.53
19:BJ:80:PHE:CD2	23:BN:42:PHE:HE2	2.27	0.53
25:BP:83:TYR:N	25:BP:83:TYR:HD1	2.06	0.53
30:BU:70:TYR:O	30:BU:125:LYS:N	2.42	0.53
31:BV:17:ILE:HA	31:BV:24:LEU:CD1	2.38	0.53
32:BW:163:LYS:HD2	32:BW:237:TRP:CZ3	2.43	0.53
32:BW:185:ILE:HD11	32:BW:193:ARG:HB3	1.88	0.53
3:A3:145:LEU:O	3:A3:146:ASP:C	2.51	0.53
5:A5:58:ALA:HB2	20:AK:126:ILE:N	2.23	0.53
6:A6:54:CYS:SG	6:A6:56:LYS:HB2	2.48	0.53
7:A7:12:ILE:HG22	7:A7:13:TYR:N	2.24	0.53
9:A9:78:LYS:HB2	9:A9:80:TYR:CE1	2.42	0.53
10:AA:531:A:O4'	10:AA:536:C:N4	2.40	0.53
10:AA:537:A:C2'	10:AA:538:A:OP2	2.57	0.53
10:AA:597:U:O2'	10:AA:598:A:H5'	2.09	0.53
10:AA:884:A:OP1	20:AK:66:ARG:HG2	2.07	0.53
10:AA:1204:U:H2'	10:AA:1205:G:H8	1.72	0.53
10:AA:1245:G:C3'	10:AA:1246:C:H5"	2.37	0.53
10:AA:1369:A:C5	10:AA:1370:U:C4	2.97	0.53
10:AA:1401:U:H5'	10:AA:1402:C:OP2	2.06	0.53
10:AA:1416:G:HO2'	10:AA:1417:A:P	2.30	0.53
11:AB:94:THR:HG21	11:AB:111:LYS:HE2	1.90	0.53
12:AC:28:PHE:CE1	12:AC:53:ILE:HD11	2.42	0.53
12:AC:196:GLU:HG2	12:AC:203:PHE:HB2	1.90	0.53
13:AD:158:PHE:CD2	13:AD:163:PRO:HG2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AM:54:PRO:CG	22:AM:55:ASN:H	2.21	0.53
24:AO:116:ARG:HG3	24:AO:116:ARG:HH11	1.72	0.53
26:AQ:60:THR:HG22	26:AQ:60:THR:O	2.09	0.53
27:AR:328:PHE:HB2	27:AR:334:ARG:HH12	1.73	0.53
27:AR:340:THR:CG2	27:AR:341:SER:H	2.08	0.53
31:AV:58:MET:HA	31:AV:58:MET:CE	2.34	0.53
34:AY:78:SER:H	34:AY:81:HIS:HD2	1.54	0.53
5:B5:58:ALA:HB3	20:BK:126:ILE:C	2.33	0.53
10:BA:305:C:O2	10:BA:345:C:N3	2.42	0.53
10:BA:342:U:C4'	10:BA:343:C:OP2	2.53	0.53
10:BA:381:G:H22	10:BA:398:A:N6	2.06	0.53
10:BA:604:G:O2'	10:BA:605:U:OP2	2.27	0.53
10:BA:760:G:N2	10:BA:764:U:N3	2.55	0.53
10:BA:874:U:O2	10:BA:874:U:H2'	2.07	0.53
10:BA:1081:G:H1'	10:BA:1111:A:N1	2.23	0.53
10:BA:1110:A:H1'	10:BA:1111:A:O4'	2.08	0.53
10:BA:1111:A:H2'	10:BA:1112:A:C8	2.43	0.53
10:BA:1149:C:O2'	10:BA:1150:G:H5'	2.07	0.53
10:BA:1176:A:H5'	10:BA:1177:C:P	2.49	0.53
10:BA:1474:G:H5"	29:BT:102:LYS:HE2	1.90	0.53
10:BA:1511:A:OP2	10:BA:1511:A:C8	2.61	0.53
13:BD:131:GLN:O	13:BD:132:ARG:HB2	2.09	0.53
17:BH:17:ALA:HA	17:BH:22:LYS:CD	2.39	0.53
22:BM:89:ILE:HG22	22:BM:90:ASN:ND2	2.23	0.53
24:BO:146:GLN:O	24:BO:150:ALA:HB2	2.08	0.53
29:BT:49:LEU:HG	29:BT:50:ALA:O	2.09	0.53
29:BT:118:ARG:O	29:BT:130:ARG:HA	2.08	0.53
35:BZ:87:LEU:HB2	35:BZ:93:TYR:HB2	1.91	0.53
3:A3:47:GLU:HG3	3:A3:61:VAL:HG22	1.89	0.53
10:AA:132:U:H2'	10:AA:133:A:C8	2.42	0.53
10:AA:137:G:H2'	10:AA:138:G:C8	2.42	0.53
10:AA:141:A:N6	10:AA:142:A:C2	2.77	0.53
10:AA:476:U:H2'	10:AA:477:G:C8	2.44	0.53
10:AA:574:A:H3'	10:AA:575:U:C5'	2.39	0.53
10:AA:734:U:C2	10:AA:735:G:C8	2.96	0.53
10:AA:761:U:H3	10:AA:764:U:H2'	1.74	0.53
10:AA:859:A:C5'	10:AA:859:A:C8	2.91	0.53
10:AA:868:U:C2'	10:AA:869:A:C5'	2.83	0.53
10:AA:878:A:O2'	10:AA:894:U:H1'	2.08	0.53
12:AC:125:ILE:HD12	12:AC:125:ILE:N	2.16	0.53
13:AD:8:THR:O	13:AD:9:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AG:64:VAL:O	16:AG:68:ILE:HG13	2.08	0.53
20:AK:106:LYS:HZ3	20:AK:135:ILE:HG23	1.74	0.53
23:AN:28:GLY:O	23:AN:30:ILE:N	2.42	0.53
25:AP:15:LEU:HD22	32:AW:71:ASN:CB	2.36	0.53
28:AS:38:LEU:O	28:AS:42:PHE:HD1	1.92	0.53
2:B2:8:LYS:CD	2:B2:18:MET:HE1	2.37	0.53
2:B2:65:ALA:HB3	2:B2:180:PRO:HB3	1.90	0.53
2:B2:136:THR:CG2	2:B2:138:LEU:HG	2.38	0.53
4:B4:120:TRP:CH2	4:B4:156:SER:HA	2.44	0.53
10:BA:391:A:H4'	10:BA:392:A:C5'	2.38	0.53
10:BA:685:A:C2	10:BA:716:G:O6	2.62	0.53
10:BA:762:U:H2'	10:BA:763:U:OP2	2.08	0.53
10:BA:866:U:H2'	10:BA:867:U:H5"	1.91	0.53
10:BA:1158:U:OP1	10:BA:1427:C:H1'	2.09	0.53
10:BA:1207:C:O2	10:BA:1207:C:H2'	2.07	0.53
10:BA:1245:G:C3'	10:BA:1246:C:H5"	2.38	0.53
10:BA:1340:G:H2'	10:BA:1341:U:C5'	2.37	0.53
10:BA:1356:G:H5'	10:BA:1357:G:OP2	2.08	0.53
10:BA:1390:G:H5'	23:BN:55:ARG:HD3	1.91	0.53
10:BA:1652:A:N1	10:BA:1674:A:H1'	2.24	0.53
10:BA:1661:G:N3	10:BA:1661:G:C3'	2.70	0.53
11:BB:22:THR:HG22	11:BB:23:ILE:H	1.71	0.53
11:BB:139:PRO:HD3	35:BZ:47:VAL:CG2	2.37	0.53
12:BC:126:ILE:HG13	12:BC:139:ILE:HD12	1.90	0.53
12:BC:211:ASP:O	12:BC:212:ASN:C	2.52	0.53
16:BG:116:PRO:HG3	16:BG:189:LYS:HA	1.90	0.53
20:BK:142:ARG:NH2	20:BK:143:GLU:CD	2.67	0.53
24:BO:88:GLU:O	24:BO:89:ASP:C	2.52	0.53
29:BT:111:LEU:HB2	29:BT:117:ILE:HD12	1.89	0.53
32:BW:187:GLN:C	32:BW:191:ILE:HG22	2.33	0.53
33:BX:53:ASP:OD2	33:BX:56:LYS:HD2	2.09	0.53
2:A2:14:THR:O	2:A2:14:THR:HG22	2.08	0.53
4:A4:124:ILE:HB	4:A4:144:ALA:HB3	1.90	0.53
6:A6:34:LYS:HE2	6:A6:41:ILE:CD1	2.38	0.53
6:A6:52:ILE:HG13	6:A6:62:CYS:HB2	1.90	0.53
8:A8:34:LYS:NZ	8:A8:36:LYS:HB3	2.23	0.53
10:AA:319:A:P	26:AQ:55:LYS:HE3	2.48	0.53
10:AA:498:C:O2'	10:AA:499:A:P	2.67	0.53
10:AA:936:U:H5'	10:AA:937:U:OP1	2.08	0.53
10:AA:942:U:O2	10:AA:942:U:C2'	2.55	0.53
10:AA:963:G:H3'	10:AA:964:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1187:C:C4	10:AA:1188:A:C6	2.97	0.53
10:AA:1201:G:O6	30:AU:30:HIS:HB3	2.08	0.53
10:AA:1278:C:O2	10:AA:1278:C:C2'	2.53	0.53
10:AA:1356:G:H5'	10:AA:1357:G:OP2	2.09	0.53
10:AA:1368:A:C2'	10:AA:1369:A:H3'	2.38	0.53
14:AE:50:LYS:HE3	35:AZ:28:LEU:O	2.09	0.53
16:AG:83:LEU:HD23	16:AG:83:LEU:C	2.33	0.53
20:AK:95:ILE:HD11	20:AK:126:ILE:HG21	1.89	0.53
22:AM:12:LYS:HB2	22:AM:15:HIS:NE2	2.22	0.53
23:AN:35:MET:C	23:AN:36:MET:HE2	2.33	0.53
27:AR:49:LYS:HG2	27:AR:49:LYS:O	2.09	0.53
27:AR:273:GLY:N	27:AR:315:LEU:HD11	2.23	0.53
9:B9:169:UNK:HG2	9:B9:169:UNK:O	2.09	0.53
10:BA:141:A:N6	10:BA:161:U:H3	2.06	0.53
10:BA:583:C:O2'	33:BX:61:ASN:HB2	2.09	0.53
10:BA:595:A:OP2	21:BL:108:ARG:NH1	2.42	0.53
10:BA:755:G:H8	10:BA:755:G:O5'	1.91	0.53
10:BA:1072:G:C4'	10:BA:1073:G:OP1	2.46	0.53
10:BA:1241:U:O4	23:BN:27:GLN:NE2	2.42	0.53
10:BA:1736:C:H2'	10:BA:1737:C:C6	2.42	0.53
12:BC:24:LEU:O	12:BC:28:PHE:HD2	1.92	0.53
16:BG:14:PHE:HE2	16:BG:89:LYS:HA	1.68	0.53
17:BH:18:GLU:CG	17:BH:69:ILE:HB	2.33	0.53
18:BI:111:LEU:HD22	18:BI:118:LEU:HD13	1.90	0.53
19:BJ:67:LYS:HD2	19:BJ:76:THR:CG2	2.39	0.53
21:BL:107:GLY:O	21:BL:108:ARG:O	2.26	0.53
22:BM:94:ASP:CG	28:BS:16:LYS:HD2	2.34	0.53
25:BP:13:ASN:OD1	25:BP:15:LEU:HB2	2.09	0.53
26:BQ:128:ARG:HH11	26:BQ:128:ARG:HG2	1.73	0.53
29:BT:121:LYS:HG2	29:BT:128:PHE:CE1	2.44	0.53
30:BU:60:LYS:HE2	30:BU:70:TYR:OH	2.08	0.53
33:BX:36:TYR:CE2	33:BX:40:LEU:HD11	2.44	0.53
2:A2:82:ARG:NH1	10:AA:254:A:H5'	2.23	0.53
2:A2:91:TYR:HD2	2:A2:109:ILE:CD1	2.21	0.53
2:A2:106:LYS:O	2:A2:176:ILE:HB	2.08	0.53
3:A3:33:LEU:O	3:A3:37:LEU:HB2	2.08	0.53
4:A4:120:TRP:CH2	4:A4:156:SER:HA	2.44	0.53
5:A5:30:VAL:HG21	5:A5:76:CYS:CB	2.32	0.53
7:A7:11:ARG:C	7:A7:15:GLN:NE2	2.67	0.53
7:A7:58:ILE:HD13	12:AC:31:SER:CB	2.35	0.53
8:A8:46:GLU:HG3	22:AM:5:ILE:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:154:UNK:HA	9:A9:157:UNK:CG	2.38	0.53
10:AA:30:C:O2'	10:AA:31:U:H5'	2.07	0.53
10:AA:80:A:H1'	25:AP:121:THR:HG23	1.90	0.53
10:AA:90:U:H6	10:AA:90:U:O5'	1.92	0.53
10:AA:96:A:C2'	10:AA:97:U:H5'	2.39	0.53
10:AA:141:A:H5"	10:AA:141:A:H8	1.74	0.53
10:AA:271:U:C4'	10:AA:272:U:H5'	2.36	0.53
10:AA:305:C:O2	10:AA:345:C:N3	2.42	0.53
10:AA:1421:G:O2'	10:AA:1422:C:H5'	2.08	0.53
10:AA:1623:A:O2'	10:AA:1624:G:H8	1.92	0.53
14:AE:182:ALA:HB3	14:AE:185:PRO:HD3	1.91	0.53
28:AS:38:LEU:O	28:AS:42:PHE:CD1	2.62	0.53
31:AV:17:ILE:HA	31:AV:24:LEU:CD1	2.38	0.53
31:AV:44:LYS:O	31:AV:47:ARG:HB3	2.08	0.53
31:AV:53:PHE:O	31:AV:56:HIS:HB3	2.09	0.53
34:AY:181:ARG:HG2	34:AY:181:ARG:NH1	2.23	0.53
1:B1:6:THR:HG23	1:B1:56:GLU:HB3	1.91	0.53
3:B3:191:THR:HG23	3:B3:193:HIS:CD2	2.44	0.53
4:B4:139:ARG:HH12	10:BA:862:A:H5'	1.73	0.53
7:B7:14:LYS:HG2	7:B7:80:LEU:HD11	1.89	0.53
7:B7:24:LEU:HD12	7:B7:25:LYS:H	1.73	0.53
7:B7:63:PHE:HB2	7:B7:65:TYR:CE1	2.41	0.53
8:B8:95:LYS:HG2	8:B8:105:TYR:CZ	2.42	0.53
9:B9:83:LYS:CG	9:B9:84:LYS:N	2.71	0.53
10:BA:3:C:H5'	10:BA:3:C:C6	2.40	0.53
10:BA:550:G:OP1	33:BX:59:SER:HB3	2.08	0.53
10:BA:854:G:H1'	10:BA:922:A:H1'	1.89	0.53
10:BA:1079:G:H2'	10:BA:1080:G:C8	2.42	0.53
10:BA:1322:U:H2'	10:BA:1323:C:O4'	2.09	0.53
11:BB:5:ARG:NH2	11:BB:12:ARG:HH22	2.05	0.53
11:BB:51:GLN:HE22	35:BZ:95:ILE:CB	2.21	0.53
12:BC:226:GLU:HG2	27:BR:208:THR:HG23	1.90	0.53
13:BD:55:ALA:O	13:BD:59:LEU:HG	2.08	0.53
16:BG:24:ILE:HD12	16:BG:30:GLN:HA	1.89	0.53
18:BI:30:LEU:HG	18:BI:66:ASP:OD1	2.08	0.53
27:BR:77:HIS:CG	27:BR:78:PHE:H	2.25	0.53
27:BR:157:GLU:HA	27:BR:160:ASN:OD1	2.09	0.53
27:BR:273:GLY:N	27:BR:315:LEU:HD11	2.24	0.53
31:BV:114:ILE:CB	31:BV:115:PRO:CD	2.87	0.53
2:A2:111:GLU:HA	2:A2:172:ILE:O	2.09	0.53
4:A4:58:ILE:O	4:A4:59:ALA:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:120:GLY:N	9:A9:121:PRO:CD	2.72	0.53
10:AA:75:C:O4'	34:AY:178:LYS:HG2	2.09	0.53
10:AA:80:A:H1'	25:AP:121:THR:CG2	2.38	0.53
10:AA:234:G:N1	10:AA:235:A:C2	2.77	0.53
10:AA:794:A:N3	10:AA:836:G:H1'	2.23	0.53
10:AA:955:A:C2	10:AA:956:A:N3	2.77	0.53
10:AA:968:C:H4'	20:AK:141:ARG:O	2.09	0.53
10:AA:1476:A:C2'	10:AA:1477:A:H5'	2.38	0.53
11:AB:2:ALA:CB	35:AZ:97:GLU:HB2	2.37	0.53
11:AB:107:TYR:CD1	11:AB:107:TYR:O	2.62	0.53
11:AB:203:LEU:HD22	11:AB:204:PRO:HD2	1.90	0.53
12:AC:145:LEU:HD13	12:AC:153:MET:CE	2.34	0.53
15:AF:51:TRP:HE1	15:AF:84:PHE:HE2	1.47	0.53
15:AF:78:ARG:NH1	15:AF:100:GLY:CA	2.72	0.53
16:AG:133:ALA:HB2	16:AG:200:ARG:CB	2.39	0.53
20:AK:45:THR:HG23	20:AK:51:GLU:O	2.09	0.53
25:AP:56:TYR:C	25:AP:56:TYR:HD1	2.16	0.53
26:AQ:87:ARG:NH1	26:AQ:104:ARG:NH1	2.55	0.53
27:AR:242:ILE:HG22	27:AR:242:ILE:O	2.08	0.53
28:AS:15:GLY:N	28:AS:114:PHE:HE2	2.06	0.53
29:AT:49:LEU:HG	29:AT:50:ALA:O	2.08	0.53
31:AV:20:TYR:O	31:AV:21:TYR:C	2.51	0.53
31:AV:47:ARG:HD2	31:AV:48:ASN:N	2.24	0.53
33:AX:53:ASP:OD2	33:AX:56:LYS:HD2	2.09	0.53
34:AY:23:LYS:CE	34:AY:41:LEU:HA	2.39	0.53
34:AY:41:LEU:HB3	34:AY:45:PHE:HD1	1.73	0.53
35:AZ:20:LYS:O	35:AZ:22:GLU:HG3	2.09	0.53
2:B2:192:GLU:CB	26:BQ:19:SER:HB3	2.39	0.53
3:B3:109:LYS:H	3:B3:109:LYS:HD2	1.74	0.53
7:B7:11:ARG:O	7:B7:15:GLN:HG3	2.09	0.53
9:B9:120:GLY:N	9:B9:121:PRO:CD	2.72	0.53
9:B9:155:UNK:HA	9:B9:158:UNK:CG	2.39	0.53
10:BA:454:C:C2'	10:BA:455:C:C5'	2.86	0.53
10:BA:881:U:O2	10:BA:883:A:OP2	2.27	0.53
10:BA:1229:U:O2	10:BA:1229:U:C2'	2.56	0.53
10:BA:1370:U:C6	10:BA:1370:U:H3'	2.43	0.53
10:BA:1660:A:H5'	10:BA:1661:G:OP2	2.08	0.53
11:BB:29:MET:O	11:BB:33:ILE:HG13	2.08	0.53
11:BB:107:TYR:CD1	11:BB:107:TYR:O	2.61	0.53
14:BE:83:GLN:C	14:BE:84:ILE:HG13	2.33	0.53
15:BF:33:THR:HG21	15:BF:81:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:BF:55:LEU:HD22	15:BF:77:HIS:HB3	1.91	0.53
22:BM:6:GLU:O	22:BM:10:ASP:CB	2.57	0.53
22:BM:100:MET:HB3	22:BM:105:LEU:HD13	1.90	0.53
27:BR:281:PHE:N	27:BR:281:PHE:CD1	2.77	0.53
32:BW:49:LYS:HE2	32:BW:58:GLY:HA2	1.90	0.53
34:BY:150:GLU:CD	34:BY:150:GLU:H	2.16	0.53
2:A2:82:ARG:HH11	10:AA:254:A:H5'	1.73	0.53
2:A2:123:LEU:HD23	2:A2:123:LEU:C	2.34	0.53
3:A3:78:ARG:O	3:A3:82:ILE:HG13	2.09	0.53
3:A3:133:PRO:HD2	3:A3:162:PHE:CE2	2.44	0.53
5:A5:54:GLN:O	5:A5:57:LEU:HB3	2.09	0.53
10:AA:145:G:HO2'	34:AY:13:GLN:HG3	1.74	0.53
10:AA:206:U:H3	10:AA:251:G:H1	1.57	0.53
10:AA:206:U:C5'	26:AQ:20:LYS:HD2	2.38	0.53
10:AA:207:U:H2'	10:AA:208:A:C8	2.44	0.53
10:AA:284:U:O2'	10:AA:285:C:H5'	2.09	0.53
10:AA:614:A:OP2	10:AA:615:A:OP2	2.26	0.53
10:AA:627:U:P	21:AL:10:ARG:HB2	2.49	0.53
10:AA:670:G:C2'	10:AA:671:A:H5'	2.39	0.53
10:AA:866:U:H2'	10:AA:867:U:H5"	1.90	0.53
10:AA:931:A:OP1	24:AO:96:LYS:NZ	2.42	0.53
10:AA:942:U:H1'	10:AA:943:U:C6	2.44	0.53
10:AA:1207:C:H2'	10:AA:1207:C:O2	2.08	0.53
10:AA:1277:U:H2'	10:AA:1277:U:O2	2.07	0.53
10:AA:1370:U:C6	10:AA:1370:U:H3'	2.43	0.53
10:AA:1561:U:H3	10:AA:1579:G:H1	1.55	0.53
10:AA:1590:C:O2'	10:AA:1591:C:H5"	2.08	0.53
10:AA:1712:C:H2'	10:AA:1713:G:O4'	2.09	0.53
11:AB:51:GLN:HE22	35:AZ:95:ILE:CB	2.22	0.53
14:AE:32:LYS:O	14:AE:35:ARG:HB3	2.09	0.53
15:AF:52:LYS:HE2	15:AF:59:ALA:H	1.74	0.53
17:AH:71:LYS:HG3	17:AH:128:PHE:HE1	1.74	0.53
19:AJ:49:GLU:HB2	19:AJ:92:THR:OG1	2.08	0.53
23:AN:28:GLY:O	23:AN:29:LEU:C	2.52	0.53
24:AO:13:ILE:C	24:AO:14:SER:O	2.49	0.53
29:AT:9:THR:CG2	29:AT:10:VAL:N	2.70	0.53
33:AX:59:SER:C	33:AX:61:ASN:H	2.15	0.53
34:AY:153:PRO:HG2	34:AY:154:ILE:N	2.20	0.53
2:B2:93:ALA:CA	26:BQ:9:TYR:HD2	2.22	0.53
2:B2:95:ASN:ND2	10:BA:332:A:H4'	2.24	0.53
2:B2:123:LEU:HD21	10:BA:180:C:H5"	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:65:VAL:CG2	3:B3:73:LEU:HD22	2.37	0.53
6:B6:18:LYS:HZ2	10:BA:936:U:C5'	2.15	0.53
10:BA:7:G:H4'	10:BA:567:C:O2'	2.09	0.53
10:BA:644:U:H2'	10:BA:645:C:C6	2.43	0.53
10:BA:753:C:O3'	13:BD:9:SER:OG	2.24	0.53
10:BA:812:U:C2'	10:BA:813:U:H5'	2.39	0.53
10:BA:1230:U:H2'	10:BA:1231:C:C6	2.44	0.53
10:BA:1720:G:H3'	10:BA:1720:G:P	2.48	0.53
11:BB:96:SER:HB3	11:BB:111:LYS:NZ	2.24	0.53
11:BB:160:ASN:HD21	11:BB:162:ARG:HG3	1.73	0.53
14:BE:145:TRP:H	14:BE:153:HIS:CE1	2.24	0.53
16:BG:96:HIS:O	16:BG:100:GLY:N	2.42	0.53
16:BG:200:ARG:OXT	16:BG:200:ARG:HG3	2.09	0.53
20:BK:116:LEU:HD23	20:BK:116:LEU:C	2.34	0.53
21:BL:6:PRO:HG2	21:BL:15:LEU:CD2	2.38	0.53
28:BS:33:LEU:HD22	28:BS:62:VAL:HG21	1.89	0.53
31:BV:27:ASP:O	31:BV:31:ASN:ND2	2.42	0.53
32:BW:88:LEU:HD12	32:BW:104:LEU:HD23	1.89	0.53
1:A1:62:ARG:HH22	16:AG:200:ARG:HB2	1.69	0.53
2:A2:89:VAL:HA	2:A2:110:VAL:HG13	1.90	0.53
3:A3:115:ARG:HA	3:A3:118:CYS:SG	2.49	0.53
7:A7:30:GLY:C	7:A7:39:ASN:ND2	2.67	0.53
9:A9:169:UNK:HG2	9:A9:169:UNK:O	2.07	0.53
10:AA:123:A:H3'	10:AA:124:U:C6	2.44	0.53
10:AA:152:U:O2'	10:AA:153:U:OP1	2.25	0.53
10:AA:235:A:H2'	10:AA:814:A:C5'	2.39	0.53
10:AA:302:U:C2'	10:AA:303:A:H5"	2.39	0.53
10:AA:420:A:O2'	10:AA:432:U:H4'	2.08	0.53
10:AA:1171:G:O2'	10:AA:1172:G:P	2.67	0.53
10:AA:1246:C:P	10:AA:1399:G:OP1	2.67	0.53
10:AA:1296:G:C6	10:AA:1297:A:N7	2.77	0.53
10:AA:1368:A:O2'	10:AA:1369:A:H3'	2.09	0.53
10:AA:1650:G:H2'	10:AA:1651:G:O4'	2.09	0.53
10:AA:1728:U:O2'	10:AA:1729:A:H5'	2.09	0.53
12:AC:141:ILE:HG22	12:AC:185:MET:HE1	1.91	0.53
14:AE:51:TYR:N	14:AE:51:TYR:CD1	2.77	0.53
15:AF:44:TYR:CD1	15:AF:44:TYR:N	2.63	0.53
16:AG:17:TRP:CD1	16:AG:103:PRO:HD2	2.44	0.53
16:AG:62:PRO:O	16:AG:64:VAL:N	2.42	0.53
16:AG:122:ARG:HH21	16:AG:129:VAL:CG2	2.21	0.53
19:AJ:39:VAL:CG1	19:AJ:43:LYS:HE3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AK:31:CYS:HA	20:AK:43:HIS:O	2.09	0.53
21:AL:42:PHE:HZ	21:AL:103:VAL:HG23	1.74	0.53
21:AL:101:VAL:HG11	21:AL:123:VAL:HG13	1.91	0.53
22:AM:87:ASN:ND2	22:AM:99:GLN:NE2	2.57	0.53
26:AQ:8:ALA:CB	26:AQ:11:LYS:HE2	2.38	0.53
27:AR:52:MET:HB3	27:AR:54:TRP:NE1	2.24	0.53
27:AR:131:ARG:HA	27:AR:147:ILE:CG2	2.33	0.53
28:AS:59:ALA:O	28:AS:62:VAL:HB	2.09	0.53
5:B5:58:ALA:HB3	20:BK:126:ILE:O	2.09	0.53
7:B7:5:LEU:HB2	7:B7:8:THR:OG1	2.09	0.53
10:BA:58:G:O2'	10:BA:59:C:C6	2.62	0.53
10:BA:207:U:H2'	10:BA:208:A:H8	1.73	0.53
10:BA:341:G:H5"	10:BA:342:U:C3'	2.39	0.53
10:BA:341:G:O4'	10:BA:343:C:C2	2.62	0.53
10:BA:525:U:H5"	25:BP:63:GLY:N	2.23	0.53
10:BA:748:U:O4	13:BD:149:ARG:HG3	2.09	0.53
10:BA:840:A:H4'	17:BH:57:ARG:CG	2.39	0.53
10:BA:1191:A:C3'	10:BA:1192:C:H5'	2.39	0.53
10:BA:1368:A:O2'	10:BA:1369:A:H3'	2.08	0.53
10:BA:1473:G:H5"	29:BT:102:LYS:HZ2	1.73	0.53
13:BD:100:THR:HG21	13:BD:102:HIS:HB3	1.90	0.53
15:BF:32:PHE:CE2	15:BF:72:LYS:HE2	2.43	0.53
21:BL:29:PHE:CZ	21:BL:33:LEU:HD12	2.44	0.53
21:BL:47:HIS:CE1	21:BL:104:ALA:HB2	2.43	0.53
21:BL:101:VAL:HG11	21:BL:123:VAL:HG13	1.90	0.53
26:BQ:3:THR:HG21	26:BQ:51:THR:HB	1.91	0.53
26:BQ:21:LYS:C	26:BQ:23:LEU:H	2.15	0.53
31:BV:107:LYS:HG2	31:BV:112:GLN:CB	2.39	0.53
34:BY:2:LYS:HB3	34:BY:108:VAL:HG22	1.91	0.53
34:BY:166:LYS:HA	34:BY:171:LYS:O	2.09	0.53
35:BZ:1:MET:HE2	35:BZ:1:MET:N	2.24	0.53
35:BZ:40:PHE:HB2	35:BZ:43:ASP:CB	2.24	0.53
7:A7:81:GLY:HA3	30:AU:21:CYS:SG	2.49	0.53
9:A9:148:UNK:C	9:A9:151:UNK:HG3	2.39	0.53
10:AA:205:A:H2'	10:AA:206:U:O4'	2.08	0.53
10:AA:216:G:C2	10:AA:821:C:H1'	2.44	0.53
10:AA:272:U:C3'	10:AA:273:A:H5"	2.39	0.53
10:AA:525:U:C5'	25:AP:63:GLY:H	2.22	0.53
10:AA:876:A:O2'	10:AA:877:G:P	2.67	0.53
10:AA:1054:U:C4'	10:AA:1055:G:OP1	2.57	0.53
10:AA:1322:U:H2'	10:AA:1323:C:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1495:U:O2'	10:AA:1496:A:O5'	2.26	0.53
10:AA:1507:U:O2'	10:AA:1508:G:O5'	2.26	0.53
10:AA:1629:G:H2'	10:AA:1630:A:C8	2.43	0.53
10:AA:1723:A:H2'	10:AA:1724:U:C6	2.43	0.53
10:AA:1753:A:H8	10:AA:1753:A:P	2.32	0.53
12:AC:47:THR:O	12:AC:86:GLN:NE2	2.42	0.53
13:AD:116:LEU:C	13:AD:118:LEU:N	2.65	0.53
13:AD:127:VAL:O	13:AD:131:GLN:CG	2.56	0.53
14:AE:224:ARG:HD2	35:AZ:40:PHE:CZ	2.41	0.53
16:AG:81:LYS:O	16:AG:82:ALA:C	2.52	0.53
18:AI:36:SER:HB3	18:AI:37:PRO:HD2	1.90	0.53
27:AR:258:ILE:HG23	27:AR:272:VAL:HG13	1.91	0.53
29:AT:83:PHE:CD1	29:AT:84:GLY:N	2.77	0.53
30:AU:60:LYS:HE2	30:AU:70:TYR:OH	2.09	0.53
2:B2:7:SER:HB3	10:BA:327:G:N2	2.23	0.53
2:B2:77:SER:C	26:BQ:23:LEU:HD11	2.34	0.53
10:BA:205:A:H2'	10:BA:206:U:O4'	2.09	0.53
10:BA:413:C:H6	10:BA:413:C:O5'	1.91	0.53
10:BA:420:A:O2'	10:BA:432:U:H4'	2.09	0.53
10:BA:476:U:H3	10:BA:496:G:H1	1.56	0.53
10:BA:963:G:H3'	10:BA:964:G:H8	1.74	0.53
10:BA:1439:U:H5'	29:BT:91:ASN:O	2.09	0.53
10:BA:1464:U:H5"	10:BA:1465:C:OP2	2.08	0.53
11:BB:13:LEU:HA	11:BB:169:MET:HE1	1.90	0.53
11:BB:51:GLN:HE22	35:BZ:95:ILE:N	2.06	0.53
12:BC:35:ALA:HB2	12:BC:60:GLN:CG	2.39	0.53
14:BE:41:LYS:C	14:BE:42:ILE:HG23	2.33	0.53
15:BF:62:VAL:HG21	15:BF:72:LYS:HD2	1.91	0.53
18:BI:112:MET:CE	18:BI:116:ARG:HA	2.39	0.53
26:BQ:73:LEU:O	26:BQ:85:ILE:HG23	2.09	0.53
26:BQ:81:ARG:HD3	26:BQ:112:PRO:HG3	1.91	0.53
27:BR:274:THR:HG23	27:BR:276:GLN:H	1.74	0.53
32:BW:36:HIS:CE1	32:BW:87:GLY:HA3	2.44	0.53
32:BW:117:SER:C	32:BW:119:GLU:H	2.15	0.53
35:BZ:25:ASP:O	35:BZ:27:TYR:N	2.42	0.53
1:A1:6:THR:HG23	1:A1:56:GLU:HB3	1.91	0.52
10:AA:96:A:O2'	10:AA:97:U:H5'	2.09	0.52
10:AA:681:G:H22	10:AA:719:G:H21	1.53	0.52
10:AA:1064:A:H2'	10:AA:1064:A:N3	2.24	0.52
10:AA:1464:U:H5"	10:AA:1465:C:OP2	2.10	0.52
10:AA:1541:A:O2'	22:AM:147:VAL:HG21	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1717:C:H2'	10:AA:1718:A:C5'	2.39	0.52
12:AC:77:GLN:O	12:AC:81:GLY:HA3	2.08	0.52
13:AD:106:GLU:HG3	13:AD:111:THR:HG21	1.91	0.52
14:AE:173:ALA:HB1	14:AE:174:PRO:CD	2.39	0.52
15:AF:35:VAL:HG12	15:AF:38:ILE:HD11	1.91	0.52
16:AG:183:SER:C	16:AG:185:ALA:N	2.63	0.52
18:AI:12:PHE:HA	18:AI:20:ALA:O	2.09	0.52
19:AJ:67:LYS:HD2	19:AJ:76:THR:CG2	2.39	0.52
19:AJ:80:PHE:CD2	23:AN:42:PHE:HE2	2.27	0.52
21:AL:131:LEU:O	21:AL:132:LEU:C	2.51	0.52
24:AO:146:GLN:O	24:AO:150:ALA:HB2	2.09	0.52
28:AS:101:VAL:CG2	28:AS:121:LEU:HD11	2.36	0.52
29:AT:15:ALA:CB	29:AT:66:ARG:CZ	2.87	0.52
29:AT:38:THR:HG22	29:AT:56:TRP:CZ2	2.44	0.52
29:AT:119:LYS:HE2	29:AT:130:ARG:NH1	2.24	0.52
2:B2:63:PHE:N	2:B2:63:PHE:CD1	2.76	0.52
3:B3:72:VAL:O	3:B3:75:SER:OG	2.24	0.52
3:B3:133:PRO:HD2	3:B3:162:PHE:CE2	2.44	0.52
4:B4:38:ILE:CG2	4:B4:39:PRO:HD2	2.39	0.52
4:B4:60:SER:OG	4:B4:94:VAL:HB	2.09	0.52
4:B4:217:THR:HG22	4:B4:218:ILE:N	2.24	0.52
10:BA:93:C:H2'	10:BA:94:U:O4'	2.09	0.52
10:BA:141:A:H8	10:BA:141:A:H5"	1.74	0.52
10:BA:426:G:N2	10:BA:428:A:H3'	2.24	0.52
10:BA:734:U:C2	10:BA:735:G:C8	2.97	0.52
10:BA:971:A:H2'	10:BA:972:G:C5'	2.37	0.52
10:BA:1064:A:O2'	10:BA:1065:A:H5"	2.09	0.52
10:BA:1069:U:C3'	14:BE:160:THR:HG21	2.39	0.52
10:BA:1373:G:H2'	10:BA:1374:C:C6	2.42	0.52
10:BA:1376:A:H2'	10:BA:1377:A:C8	2.44	0.52
10:BA:1511:A:C4	10:BA:1513:G:O6	2.62	0.52
10:BA:1608:C:C4	10:BA:1718:A:C2	2.94	0.52
10:BA:1753:A:H8	10:BA:1753:A:P	2.31	0.52
12:BC:196:GLU:O	12:BC:206:LYS:HA	2.08	0.52
17:BH:125:ILE:CG2	17:BH:126:LEU:N	2.72	0.52
22:BM:11:PHE:CZ	22:BM:25:LYS:HD3	2.44	0.52
22:BM:81:ILE:H	29:BT:40:TRP:HZ2	1.57	0.52
22:BM:146:VAL:CG1	22:BM:147:VAL:H	2.07	0.52
26:BQ:10:GLN:OE1	26:BQ:10:GLN:CA	2.56	0.52
26:BQ:52:TYR:CD1	26:BQ:52:TYR:O	2.63	0.52
26:BQ:60:THR:HG22	26:BQ:60:THR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:84:LEU:HD13	27:BR:85:SER:N	2.25	0.52
34:BY:55:GLY:HA3	34:BY:63:MET:CG	2.38	0.52
2:A2:65:ALA:HB3	2:A2:180:PRO:HB3	1.91	0.52
5:A5:5:ARG:NH2	10:AA:1748:U:H3'	2.23	0.52
7:A7:9:LYS:HA	7:A7:45:LEU:HD11	1.90	0.52
7:A7:38:PRO:CB	7:A7:41:HIS:HD2	2.22	0.52
9:A9:159:UNK:O	9:A9:162:UNK:HG3	2.10	0.52
10:AA:125:U:O2'	10:AA:126:A:OP2	2.26	0.52
10:AA:391:A:H4'	10:AA:392:A:C5'	2.38	0.52
10:AA:453:G:OP2	13:AD:1:MET:CG	2.57	0.52
10:AA:762:U:C2'	10:AA:763:U:OP2	2.57	0.52
10:AA:928:C:H2'	10:AA:929:A:C8	2.43	0.52
10:AA:955:A:H2'	10:AA:956:A:O4'	2.09	0.52
10:AA:1178:U:O4	10:AA:1426:G:O6	2.27	0.52
10:AA:1333:A:N7	10:AA:1334:U:C4	2.77	0.52
10:AA:1692:C:H2'	10:AA:1693:A:H8	1.74	0.52
11:AB:168:SER:HB2	11:AB:198:PHE:HB3	1.90	0.52
14:AE:57:GLU:HB2	14:AE:60:ILE:CG1	2.35	0.52
14:AE:184:ILE:HG22	14:AE:212:LEU:HD23	1.89	0.52
16:AG:50:ARG:HG2	16:AG:53:VAL:HG21	1.90	0.52
18:AI:11:THR:HG21	18:AI:90:GLY:N	2.24	0.52
22:AM:6:GLU:O	22:AM:10:ASP:CB	2.57	0.52
27:AR:212:HIS:HE1	27:AR:231:GLY:HA2	1.74	0.52
31:AV:20:TYR:N	31:AV:20:TYR:CD1	2.75	0.52
32:AW:49:LYS:CE	32:AW:58:GLY:HA2	2.39	0.52
32:AW:127:LYS:HZ3	32:AW:186:GLN:HE22	1.57	0.52
32:AW:161:THR:OG1	32:AW:229:VAL:HB	2.10	0.52
33:AX:36:TYR:CE2	33:AX:40:LEU:HD11	2.44	0.52
33:AX:50:LEU:CD2	33:AX:57:ARG:HH12	2.19	0.52
34:AY:167:THR:HG22	34:AY:169:LYS:H	1.72	0.52
3:B3:81:ILE:O	3:B3:85:GLU:HG3	2.09	0.52
10:BA:64:U:C5	10:BA:79:G:C2	2.97	0.52
10:BA:867:U:H6	10:BA:867:U:H5"	1.73	0.52
10:BA:880:G:OP2	20:BK:38:ASN:ND2	2.39	0.52
10:BA:1086:G:O2'	10:BA:1087:U:OP2	2.23	0.52
10:BA:1390:G:H2'	10:BA:1391:C:O4'	2.08	0.52
10:BA:1467:U:H3	10:BA:1483:G:H1	1.56	0.52
10:BA:1507:U:HO2'	10:BA:1508:G:P	2.32	0.52
11:BB:5:ARG:CZ	11:BB:176:ARG:HH21	2.22	0.52
11:BB:168:SER:HB2	11:BB:198:PHE:HB3	1.91	0.52
12:BC:45:THR:C	12:BC:47:THR:N	2.65	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:74:GLU:C	14:BE:76:LYS:N	2.64	0.52
16:BG:178:ASN:HA	16:BG:186:ILE:HD13	1.91	0.52
17:BH:76:SER:CB	17:BH:77:PRO:CD	2.87	0.52
18:BI:8:LEU:HD12	18:BI:9:VAL:N	2.21	0.52
18:BI:15:LYS:HD3	18:BI:16:LYS:HG2	1.91	0.52
19:BJ:39:VAL:CG1	19:BJ:43:LYS:HE3	2.39	0.52
20:BK:53:LEU:HD13	20:BK:88:LEU:HD13	1.91	0.52
21:BL:55:LYS:HB2	21:BL:92:LEU:HD21	1.91	0.52
24:BO:30:MET:O	24:BO:31:THR:C	2.49	0.52
27:BR:237:LEU:C	27:BR:237:LEU:CD2	2.81	0.52
30:BU:88:ALA:HA	30:BU:93:GLU:O	2.09	0.52
31:BV:35:LEU:CD2	31:BV:41:VAL:HG21	2.39	0.52
32:BW:185:ILE:HD11	32:BW:193:ARG:CB	2.39	0.52
34:BY:9:LEU:HD23	34:BY:9:LEU:N	2.22	0.52
34:BY:64:LYS:HE2	34:BY:82:SER:O	2.09	0.52
34:BY:78:SER:H	34:BY:81:HIS:HD2	1.57	0.52
2:A2:140:ASN:ND2	10:AA:182:U:H3	2.06	0.52
5:A5:24:THR:HG21	5:A5:73:LEU:HD11	1.91	0.52
8:A8:63:VAL:HG22	16:AG:97:LEU:HB2	1.88	0.52
9:A9:133:TYR:CE1	9:A9:138:HIS:HA	2.44	0.52
10:AA:26:U:C3'	10:AA:27:A:H5"	2.39	0.52
10:AA:235:A:N1	10:AA:814:A:C6	2.77	0.52
10:AA:398:A:OP1	34:AY:94:ARG:HD3	2.10	0.52
10:AA:623:U:H2'	10:AA:624:A:H5'	1.92	0.52
10:AA:716:G:O2'	10:AA:717:G:H5'	2.10	0.52
10:AA:782:A:H3'	10:AA:782:A:H8	1.73	0.52
10:AA:793:G:H5"	10:AA:794:A:OP2	2.08	0.52
10:AA:1166:A:O2'	10:AA:1167:C:H5'	2.09	0.52
10:AA:1171:G:C1'	19:AJ:66:ARG:NH1	2.69	0.52
10:AA:1246:C:OP2	10:AA:1399:G:OP2	2.26	0.52
10:AA:1717:C:H5'	10:AA:1717:C:C6	2.31	0.52
11:AB:36:LYS:HG3	11:AB:42:HIS:CE1	2.45	0.52
11:AB:56:ALA:O	11:AB:59:VAL:HG12	2.08	0.52
12:AC:9:ASN:HD22	12:AC:12:LYS:HD2	1.74	0.52
12:AC:82:TYR:C	12:AC:84:ASP:N	2.67	0.52
15:AF:55:LEU:HD22	15:AF:77:HIS:HB3	1.90	0.52
16:AG:107:PHE:HA	16:AG:172:ILE:CG2	2.40	0.52
21:AL:107:GLY:O	21:AL:108:ARG:O	2.27	0.52
22:AM:144:HIS:O	22:AM:145:GLY:C	2.52	0.52
25:AP:101:THR:HG23	25:AP:105:PHE:CE1	2.44	0.52
25:AP:146:PHE:CD1	25:AP:147:VAL:N	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AQ:10:GLN:O	26:AQ:11:LYS:HD3	2.10	0.52
27:AR:9:ILE:HG21	27:AR:291:VAL:CG2	2.39	0.52
28:AS:127:THR:HG22	28:AS:127:THR:O	2.09	0.52
30:AU:70:TYR:O	30:AU:125:LYS:N	2.42	0.52
35:AZ:47:VAL:HG22	35:AZ:48:GLN:N	2.23	0.52
2:B2:105:VAL:HG22	10:BA:320:G:O2'	2.08	0.52
3:B3:70:TYR:CE1	3:B3:96:ALA:HB2	2.45	0.52
5:B5:8:ALA:HB1	10:BA:1744:U:C5'	2.38	0.52
8:B8:87:MET:HE2	8:B8:93:VAL:CG2	2.39	0.52
9:B9:152:UNK:HA	9:B9:155:UNK:CG	2.40	0.52
10:BA:3:C:C5'	10:BA:3:C:C6	2.87	0.52
10:BA:476:U:H2'	10:BA:477:G:C8	2.44	0.52
10:BA:562:G:OP1	21:BL:69:LYS:CE	2.56	0.52
10:BA:753:C:H2'	10:BA:754:A:H5'	1.91	0.52
10:BA:1064:A:O2'	10:BA:1065:A:H3'	2.08	0.52
10:BA:1165:A:HO2'	10:BA:1166:A:P	2.32	0.52
10:BA:1197:A:H2'	10:BA:1198:A:H8	1.74	0.52
10:BA:1252:C:O2'	19:BJ:68:SER:HB2	2.09	0.52
10:BA:1345:A:C2	10:BA:1346:C:C2	2.97	0.52
10:BA:1366:G:N2	10:BA:1374:C:N1	2.56	0.52
10:BA:1368:A:C2'	10:BA:1370:U:OP2	2.58	0.52
10:BA:1608:C:N4	10:BA:1610:G:N2	2.56	0.52
11:BB:159:CYS:SG	11:BB:170:ILE:HD12	2.49	0.52
13:BD:37:LYS:HZ1	13:BD:126:ARG:HH11	1.56	0.52
14:BE:135:LEU:HD23	14:BE:135:LEU:N	2.23	0.52
23:BN:35:MET:C	23:BN:36:MET:HE2	2.34	0.52
27:BR:114:PHE:CD1	27:BR:114:PHE:N	2.78	0.52
27:BR:265:PRO:C	27:BR:266:LYS:HG3	2.34	0.52
28:BS:49:ARG:NH1	28:BS:87:SER:O	2.42	0.52
29:BT:40:TRP:O	29:BT:41:THR:O	2.27	0.52
32:BW:127:LYS:HB2	32:BW:228:PHE:CE1	2.44	0.52
1:A1:12:MET:HB3	1:A1:28:ARG:CG	2.28	0.52
3:A3:43:THR:HG21	3:A3:97:GLN:OE1	2.09	0.52
8:A8:30:TRP:O	8:A8:31:THR:CB	2.57	0.52
10:AA:1:A:H2'	14:AE:180:VAL:HG13	1.90	0.52
10:AA:135:A:C2'	10:AA:136:U:OP2	2.57	0.52
10:AA:427:A:C5'	21:AL:49:LYS:HG3	2.37	0.52
10:AA:1043:U:H2'	10:AA:1044:C:C6	2.44	0.52
10:AA:1171:G:N7	23:AN:39:ARG:HD3	2.25	0.52
10:AA:1249:G:H3'	10:AA:1250:G:C8	2.44	0.52
10:AA:1368:A:C2'	10:AA:1370:U:OP2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1418:C:H5'	10:AA:1418:C:H6	1.72	0.52
10:AA:1651:G:H1'	10:AA:1674:A:N6	2.24	0.52
13:AD:153:GLU:HG2	13:AD:153:GLU:O	2.09	0.52
18:AI:116:ARG:HB3	18:AI:120:VAL:HG21	1.92	0.52
27:AR:266:LYS:HD2	27:AR:320:LEU:O	2.10	0.52
27:AR:274:THR:HG23	27:AR:276:GLN:N	2.25	0.52
27:AR:342:ALA:O	27:AR:343:ASN:HB2	2.09	0.52
34:AY:165:PHE:HD1	34:AY:165:PHE:O	1.90	0.52
34:AY:184:THR:HB	34:AY:185:PRO:CD	2.33	0.52
2:B2:77:SER:HA	26:BQ:23:LEU:HD11	1.91	0.52
3:B3:78:ARG:O	3:B3:82:ILE:HG13	2.09	0.52
3:B3:135:THR:CG2	3:B3:136:LEU:HD23	2.39	0.52
5:B5:87:ARG:NH1	10:BA:1126:C:OP1	2.42	0.52
7:B7:47:ARG:HA	7:B7:50:LYS:HG2	1.91	0.52
10:BA:31:U:H3	10:BA:460:A:H2	1.56	0.52
10:BA:80:A:H1'	25:BP:121:THR:CG2	2.39	0.52
10:BA:605:U:H5	26:BQ:95:LYS:HE2	1.74	0.52
10:BA:795:A:H4'	10:BA:796:U:C5'	2.39	0.52
10:BA:1292:U:C5	11:BB:98:ARG:NE	2.77	0.52
10:BA:1336:A:O2'	10:BA:1337:C:H5'	2.09	0.52
10:BA:1399:G:C2'	10:BA:1400:G:H5'	2.39	0.52
11:BB:5:ARG:NH2	11:BB:176:ARG:HE	2.07	0.52
11:BB:141:ILE:HG23	11:BB:155:VAL:HG12	1.90	0.52
12:BC:207:THR:HG23	12:BC:208:PRO:HD2	1.91	0.52
12:BC:221:ILE:HD13	27:BR:162:SER:OG	2.10	0.52
14:BE:33:LEU:HD22	14:BE:53:ILE:CG2	2.39	0.52
16:BG:183:SER:C	16:BG:185:ALA:N	2.64	0.52
17:BH:38:LEU:HD22	17:BH:47:ILE:CD1	2.40	0.52
17:BH:111:LEU:HB2	17:BH:116:CYS:SG	2.50	0.52
19:BJ:27:ASN:HD21	19:BJ:29:LYS:HB2	1.74	0.52
21:BL:55:LYS:HD3	21:BL:55:LYS:H	1.74	0.52
23:BN:38:CYS:SG	23:BN:40:ARG:HG3	2.49	0.52
25:BP:83:TYR:N	25:BP:83:TYR:CD1	2.76	0.52
28:BS:90:VAL:HB	28:BS:117:ILE:HA	1.90	0.52
32:BW:150:ARG:HH11	32:BW:150:ARG:HG3	1.75	0.52
32:BW:193:ARG:NE	32:BW:247:ARG:HG2	2.24	0.52
34:BY:36:VAL:HB	34:BY:50:PHE:HB2	1.91	0.52
2:A2:124:HIS:CE1	2:A2:152:LYS:HD3	2.44	0.52
3:A3:123:TYR:CE2	3:A3:178:THR:HA	2.45	0.52
4:A4:30:GLU:HG3	4:A4:52:LYS:HD3	1.91	0.52
9:A9:132:HIS:O	9:A9:140:THR:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:147:UNK:O	9:A9:151:UNK:HG3	2.09	0.52
10:AA:110:A:O2'	26:AQ:64:SER:HB3	2.10	0.52
10:AA:188:G:H2'	10:AA:189:C:H5"	1.91	0.52
10:AA:243:G:O4'	32:AW:204:GLN:HB2	2.10	0.52
10:AA:426:G:N2	10:AA:428:A:H3'	2.24	0.52
10:AA:570:G:C4'	10:AA:574:A:N3	2.73	0.52
10:AA:1151:G:H2'	10:AA:1152:C:C6	2.45	0.52
10:AA:1353:G:H1'	19:AJ:55:ARG:NH1	2.24	0.52
10:AA:1468:G:O2'	29:AT:126:LYS:HE2	2.09	0.52
10:AA:1529:U:H2'	10:AA:1529:U:O2	2.08	0.52
12:AC:117:PRO:HG2	12:AC:120:LEU:HB3	1.92	0.52
13:AD:23:ARG:HH21	13:AD:24:LEU:CD2	2.23	0.52
18:AI:107:ILE:O	18:AI:110:GLN:HB3	2.09	0.52
21:AL:47:HIS:CE1	21:AL:104:ALA:HB2	2.44	0.52
24:AO:8:GLY:O	24:AO:9:LYS:HB2	2.10	0.52
24:AO:96:LYS:O	24:AO:100:ILE:CD1	2.57	0.52
25:AP:51:ARG:CZ	25:AP:146:PHE:CE1	2.92	0.52
26:AQ:29:ALA:O	26:AQ:31:VAL:N	2.43	0.52
29:AT:131:VAL:HG12	29:AT:132:ILE:N	2.25	0.52
30:AU:15:VAL:HG22	30:AU:112:ILE:HD13	1.91	0.52
30:AU:86:PHE:CD1	30:AU:86:PHE:N	2.77	0.52
32:AW:42:LEU:HB2	32:AW:111:PHE:CE2	2.45	0.52
35:AZ:34:TRP:HD1	35:AZ:82:ALA:CA	2.23	0.52
2:B2:12:ARG:O	2:B2:14:THR:N	2.43	0.52
3:B3:152:ARG:HG3	3:B3:154:GLN:HE22	1.73	0.52
4:B4:75:LEU:O	4:B4:79:SER:OG	2.27	0.52
4:B4:85:ARG:HH22	4:B4:218:ILE:H	1.57	0.52
7:B7:12:ILE:HA	7:B7:15:GLN:NE2	2.25	0.52
8:B8:30:TRP:HD1	8:B8:31:THR:N	2.06	0.52
10:BA:47:C:H2'	10:BA:48:C:H6	1.73	0.52
10:BA:512:C:H3'	10:BA:513:A:H5"	1.86	0.52
10:BA:525:U:H5"	25:BP:63:GLY:HA2	1.91	0.52
10:BA:898:U:O2'	10:BA:899:U:H5'	2.10	0.52
10:BA:966:A:O2'	10:BA:967:U:H5'	2.09	0.52
10:BA:1473:G:H5"	29:BT:102:LYS:NZ	2.24	0.52
14:BE:27:TRP:HH2	14:BE:57:GLU:CD	2.17	0.52
14:BE:145:TRP:HE3	14:BE:173:ALA:O	1.92	0.52
18:BI:116:ARG:HB3	18:BI:120:VAL:HG21	1.91	0.52
20:BK:46:ASP:OD1	20:BK:51:GLU:HB2	2.09	0.52
21:BL:42:PHE:HB3	21:BL:45:ALA:HB3	1.92	0.52
34:BY:167:THR:HG22	34:BY:168:ALA:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:39:THR:C	2:A2:41:GLN:N	2.68	0.52
2:A2:143:LYS:HG3	2:A2:144:SER:N	2.24	0.52
5:A5:89:ARG:HD3	10:AA:1750:A:N6	2.25	0.52
10:AA:45:A:O2'	10:AA:46:A:P	2.68	0.52
10:AA:359:U:H3	10:AA:364:G:H1	1.57	0.52
10:AA:495:C:O2'	10:AA:496:G:H5'	2.09	0.52
10:AA:736:A:OP2	32:AW:189:ASN:CG	2.53	0.52
10:AA:930:A:O2'	10:AA:931:A:H5'	2.08	0.52
10:AA:1272:A:H5"	14:AE:87:VAL:HG11	1.92	0.52
10:AA:1569:A:C4	23:AN:13:TYR:HE2	2.27	0.52
11:AB:20:GLN:HG3	11:AB:41:ILE:HG21	1.91	0.52
14:AE:49:PHE:CD1	35:AZ:41:SER:HB3	2.44	0.52
14:AE:145:TRP:N	14:AE:153:HIS:HE1	2.07	0.52
15:AF:43:ASP:H	8:B8:32:LYS:HB2	1.75	0.52
21:AL:112:ALA:CB	21:AL:119:VAL:O	2.57	0.52
24:AO:104:LEU:HD21	24:AO:113:SER:HB3	1.90	0.52
25:AP:27:HIS:CE1	25:AP:67:SER:OG	2.59	0.52
26:AQ:117:LYS:NZ	26:AQ:144:ASN:O	2.37	0.52
34:AY:47:GLY:O	34:AY:117:GLY:HA3	2.09	0.52
3:B3:80:LEU:HD13	3:B3:94:PHE:CE2	2.44	0.52
4:B4:128:VAL:HG22	4:B4:175:ASN:CG	2.34	0.52
8:B8:66:VAL:HG11	10:BA:1506:G:C6	2.44	0.52
10:BA:15:U:O2'	10:BA:614:A:N6	2.43	0.52
10:BA:30:C:O2'	10:BA:31:U:H5'	2.10	0.52
10:BA:71:U:HO2'	10:BA:72:G:P	2.33	0.52
10:BA:91:G:OP2	32:BW:3:ARG:NH1	2.42	0.52
10:BA:279:A:H2'	10:BA:280:U:O4'	2.10	0.52
10:BA:300:C:H5'	10:BA:300:C:C6	2.45	0.52
10:BA:466:A:H4'	13:BD:130:ARG:NH2	2.25	0.52
10:BA:495:C:O2'	10:BA:496:G:H5'	2.10	0.52
10:BA:716:G:O2'	10:BA:717:G:H5'	2.09	0.52
10:BA:761:U:N3	10:BA:764:U:H2'	2.24	0.52
10:BA:793:G:H5"	10:BA:794:A:OP2	2.09	0.52
10:BA:1290:G:OP1	31:BV:67:ARG:HG2	2.09	0.52
10:BA:1318:C:O2'	10:BA:1319:U:P	2.68	0.52
10:BA:1321:G:H21	10:BA:1349:C:N4	2.08	0.52
10:BA:1430:C:H3'	22:BM:138:THR:HG21	1.92	0.52
10:BA:1529:U:O2	10:BA:1529:U:H2'	2.08	0.52
10:BA:1692:C:H2'	10:BA:1693:A:H8	1.75	0.52
13:BD:106:GLU:HG3	13:BD:111:THR:HG21	1.91	0.52
13:BD:158:PHE:CD2	13:BD:163:PRO:HG2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BH:11:LEU:O	17:BH:14:LEU:HB3	2.10	0.52
22:BM:119:ILE:CG2	28:BS:124:PHE:HE2	2.23	0.52
25:BP:16:LEU:HB3	25:BP:83:TYR:HD2	1.74	0.52
25:BP:101:THR:HG23	25:BP:105:PHE:CE1	2.43	0.52
3:A3:131:LEU:HD23	3:A3:170:ILE:HD13	1.92	0.52
4:A4:35:ARG:HE	4:A4:44:SER:CB	2.19	0.52
4:A4:161:TYR:N	4:A4:161:TYR:HD1	2.08	0.52
8:A8:30:TRP:HD1	8:A8:31:THR:N	2.07	0.52
9:A9:129:TYR:HB2	9:A9:154:UNK:CG	2.40	0.52
10:AA:84:U:C2'	10:AA:85:G:H5'	2.35	0.52
10:AA:125:U:N3	10:AA:171:U:O4	2.43	0.52
10:AA:303:A:C2	10:AA:305:C:N3	2.78	0.52
10:AA:371:U:O2'	10:AA:372:C:P	2.68	0.52
10:AA:595:A:H2'	10:AA:596:U:O4'	2.09	0.52
10:AA:617:A:O2'	10:AA:618:G:OP1	2.25	0.52
10:AA:992:G:H2'	10:AA:993:U:O4'	2.10	0.52
10:AA:1249:G:H3'	10:AA:1250:G:H8	1.75	0.52
10:AA:1288:C:OP1	31:AV:7:LYS:HB2	2.10	0.52
10:AA:1326:C:C5'	10:AA:1326:C:H6	2.23	0.52
10:AA:1376:A:H2'	10:AA:1377:A:C8	2.44	0.52
10:AA:1442:A:H5'	10:AA:1545:A:H62	1.75	0.52
10:AA:1519:U:O2	10:AA:1519:U:H2'	2.09	0.52
10:AA:1540:G:O2'	10:AA:1541:A:OP2	2.27	0.52
10:AA:1568:C:O2'	10:AA:1570:U:H5	1.91	0.52
10:AA:1715:A:C8	10:AA:1715:A:C3'	2.93	0.52
38:AA:2461:HOH:O	22:AM:30:ILE:HD13	2.09	0.52
12:AC:141:ILE:HA	12:AC:186:GLY:O	2.09	0.52
12:AC:145:LEU:HD11	12:AC:153:MET:HB2	1.90	0.52
14:AE:138:VAL:HG11	14:AE:220:ALA:CB	2.39	0.52
18:AI:7:GLN:O	18:AI:25:ARG:HG3	2.10	0.52
19:AJ:21:ILE:HD11	19:AJ:91:LEU:CD1	2.40	0.52
26:AQ:91:HIS:O	26:AQ:99:TYR:HA	2.10	0.52
28:AS:33:LEU:CD2	28:AS:62:VAL:HG21	2.40	0.52
32:AW:174:PHE:O	32:AW:175:ALA:HB2	2.10	0.52
32:AW:196:ILE:O	32:AW:212:VAL:HG12	2.09	0.52
34:AY:184:THR:O	34:AY:188:ILE:HG13	2.09	0.52
2:B2:6:ASP:HB2	2:B2:22:ARG:HH21	1.75	0.52
9:B9:154:UNK:HA	9:B9:157:UNK:CG	2.40	0.52
10:BA:63:U:C5'	10:BA:64:U:OP2	2.57	0.52
10:BA:284:U:O2'	10:BA:285:C:H5'	2.10	0.52
10:BA:293:U:H2'	10:BA:293:U:O2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:542:G:H2'	10:BA:543:A:H8	1.75	0.52
10:BA:544:G:C6	10:BA:576:U:C5	2.98	0.52
10:BA:680:U:H2'	10:BA:681:G:C8	2.44	0.52
10:BA:719:G:N2	10:BA:720:U:C2	2.78	0.52
10:BA:1157:U:O2'	10:BA:1158:U:OP2	2.25	0.52
10:BA:1369:A:C5	10:BA:1370:U:C4	2.98	0.52
10:BA:1421:G:O2'	10:BA:1422:C:H5'	2.10	0.52
26:BQ:3:THR:HG21	26:BQ:51:THR:C	2.35	0.52
27:BR:328:PHE:HB2	27:BR:334:ARG:HH12	1.74	0.52
28:BS:48:ARG:O	28:BS:52:ARG:HB2	2.10	0.52
31:BV:77:GLU:C	31:BV:79:GLU:H	2.18	0.52
34:BY:55:GLY:O	34:BY:62:PRO:HA	2.09	0.52
34:BY:98:ARG:NH2	34:BY:101:ILE:O	2.42	0.52
35:BZ:34:TRP:C	35:BZ:34:TRP:CE3	2.88	0.52
1:A1:8:LYS:HG2	1:A1:56:GLU:OE1	2.10	0.52
2:A2:6:ASP:HB2	2:A2:22:ARG:HH21	1.74	0.52
2:A2:26:ALA:HA	10:AA:391:A:C2	2.44	0.52
7:A7:13:TYR:HD2	7:A7:76:LEU:CD2	2.21	0.52
10:AA:98:U:H3'	10:AA:98:U:H6	1.75	0.52
10:AA:246:U:H4'	10:AA:247:C:OP2	2.08	0.52
10:AA:293:U:H2'	10:AA:293:U:O2	2.10	0.52
10:AA:341:G:O4'	10:AA:343:C:C2	2.63	0.52
10:AA:479:G:H3'	10:AA:480:A:C8	2.42	0.52
10:AA:561:A:OP1	21:AL:67:VAL:HB	2.09	0.52
10:AA:564:A:H61	21:AL:115:ASP:HB3	1.74	0.52
10:AA:1119:G:C2	10:AA:1605:A:C2	2.98	0.52
10:AA:1138:A:H2'	10:AA:1139:G:O4'	2.10	0.52
10:AA:1331:A:C2	10:AA:1334:U:H5	2.27	0.52
12:AC:159:TYR:O	12:AC:160:MET:HB2	2.09	0.52
14:AE:153:HIS:HB2	14:AE:196:ASP:OD2	2.10	0.52
15:AF:33:THR:HG21	15:AF:81:ILE:HD12	1.92	0.52
16:AG:33:ILE:HG23	16:AG:34:ALA:N	2.25	0.52
27:AR:84:LEU:HD13	27:AR:85:SER:N	2.25	0.52
28:AS:92:PRO:O	28:AS:95:VAL:HG23	2.09	0.52
29:AT:24:SER:O	29:AT:27:LYS:N	2.39	0.52
29:AT:121:LYS:HG2	29:AT:128:PHE:CE1	2.45	0.52
35:AZ:1:MET:N	35:AZ:1:MET:HE2	2.25	0.52
35:AZ:13:MET:HE1	35:AZ:31:LYS:CD	2.37	0.52
1:B1:19:GLY:O	1:B1:22:GLY:N	2.41	0.52
4:B4:75:LEU:HB2	4:B4:79:SER:OG	2.10	0.52
6:B6:30:PHE:CZ	24:BO:63:PRO:HB3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B8:60:VAL:CG2	8:B8:73:LEU:HD21	2.40	0.52
10:BA:141:A:C2	10:BA:162:A:C6	2.98	0.52
10:BA:181:G:C2	10:BA:194:G:C2	2.98	0.52
10:BA:206:U:H3	10:BA:251:G:H1	1.57	0.52
10:BA:234:G:C2	10:BA:235:A:C2	2.97	0.52
10:BA:533:G:H3'	33:BX:28:ARG:NH1	2.25	0.52
10:BA:538:A:H4'	10:BA:539:U:OP1	2.10	0.52
10:BA:845:G:OP1	24:BO:5:GLN:HB3	2.10	0.52
10:BA:1326:C:H5'	10:BA:1326:C:H6	1.75	0.52
10:BA:1606:C:C6	10:BA:1606:C:C3'	2.93	0.52
13:BD:126:ARG:NH1	13:BD:144:PRO:HB2	2.25	0.52
18:BI:107:ILE:O	18:BI:110:GLN:HB3	2.10	0.52
27:BR:52:MET:HB3	27:BR:54:TRP:NE1	2.24	0.52
27:BR:297:GLU:H	27:BR:298:PRO:CD	2.23	0.52
29:BT:131:VAL:HG12	29:BT:132:ILE:N	2.25	0.52
31:BV:46:LEU:O	31:BV:46:LEU:HD23	2.10	0.52
34:BY:90:GLY:C	34:BY:92:ARG:N	2.68	0.52
35:BZ:93:TYR:HB3	35:BZ:94:PRO:HD3	1.92	0.52
2:A2:72:ASN:OD1	2:A2:81:THR:HG22	2.10	0.52
2:A2:79:ASN:ND2	2:A2:79:ASN:O	2.43	0.52
2:A2:109:ILE:CG2	2:A2:191:LEU:HD11	2.40	0.52
2:A2:179:ARG:NH2	10:AA:322:G:O6	2.43	0.52
3:A3:191:THR:HG23	3:A3:193:HIS:CD2	2.45	0.52
4:A4:26:LEU:CD1	20:AK:84:ARG:NH2	2.70	0.52
10:AA:47:C:C2'	10:AA:48:C:H5'	2.39	0.52
10:AA:50:A:H2'	10:AA:51:U:H5'	1.91	0.52
10:AA:141:A:N6	10:AA:161:U:H3	2.07	0.52
10:AA:148:C:H5'	34:AY:108:VAL:HG21	1.91	0.52
10:AA:392:A:C8	10:AA:395:G:C6	2.98	0.52
10:AA:642:G:H8	10:AA:642:G:OP2	1.93	0.52
10:AA:764:U:N3	10:AA:766:G:C2	2.78	0.52
10:AA:1149:C:O2'	10:AA:1150:G:H5'	2.10	0.52
10:AA:1305:C:O4'	12:AC:165:GLN:HG3	2.09	0.52
10:AA:1336:A:O2'	10:AA:1337:C:H5'	2.10	0.52
10:AA:1585:U:P	16:AG:66:ARG:HH12	2.32	0.52
17:AH:30:VAL:HG21	17:AH:61:VAL:HG23	1.92	0.52
17:AH:110:ILE:O	17:AH:111:LEU:HD23	2.10	0.52
27:AR:83:ALA:HB1	27:AR:126:PHE:HB2	1.92	0.52
32:AW:18:TRP:O	32:AW:19:MET:C	2.53	0.52
32:AW:185:ILE:HD11	32:AW:193:ARG:CB	2.39	0.52
32:AW:195:GLY:HA3	32:AW:213:LYS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AX:34:ARG:O	33:AX:34:ARG:HG2	2.07	0.52
35:AZ:87:LEU:HB2	35:AZ:93:TYR:HB2	1.92	0.52
2:B2:82:ARG:HH11	10:BA:254:A:H5'	1.74	0.52
2:B2:109:ILE:CG2	2:B2:191:LEU:HD11	2.40	0.52
5:B5:30:VAL:HG12	5:B5:35:ALA:HB2	1.89	0.52
7:B7:30:GLY:C	7:B7:39:ASN:ND2	2.68	0.52
8:B8:73:LEU:HB2	8:B8:75:VAL:CG2	2.37	0.52
8:B8:92:LEU:HD12	8:B8:92:LEU:O	2.10	0.52
10:BA:132:U:H1'	34:BY:149:LYS:NZ	2.25	0.52
10:BA:145:G:C2	10:BA:157:G:N2	2.77	0.52
10:BA:215:A:N6	10:BA:811:U:H3	2.08	0.52
10:BA:318:U:H5'	10:BA:319:A:OP2	2.10	0.52
10:BA:728:U:H2'	10:BA:729:U:H5'	1.90	0.52
10:BA:753:C:C2'	10:BA:754:A:H5'	2.40	0.52
10:BA:1326:C:C5'	10:BA:1326:C:H6	2.22	0.52
10:BA:1511:A:OP2	10:BA:1511:A:H8	1.93	0.52
10:BA:1561:U:H3	10:BA:1579:G:H1	1.56	0.52
10:BA:1701:C:H2'	10:BA:1702:A:O4'	2.10	0.52
11:BB:11:LYS:HD3	31:BV:93:ILE:O	2.10	0.52
14:BE:116:TRP:N	14:BE:132:HIS:HD2	2.02	0.52
18:BI:12:PHE:O	18:BI:89:LYS:HD2	2.10	0.52
20:BK:116:LEU:C	20:BK:116:LEU:CD2	2.83	0.52
22:BM:50:LEU:HD22	22:BM:68:LYS:HB3	1.92	0.52
22:BM:54:PRO:CG	22:BM:55:ASN:H	2.20	0.52
25:BP:27:HIS:CE1	25:BP:67:SER:OG	2.61	0.52
25:BP:51:ARG:CZ	25:BP:146:PHE:CE1	2.92	0.52
27:BR:266:LYS:HD2	27:BR:320:LEU:O	2.10	0.52
7:A7:56:GLU:HB3	7:A7:67:TYR:CE1	2.45	0.52
7:A7:90:LYS:HB2	12:AC:74:GLN:HE22	1.75	0.52
9:A9:88:HIS:HE2	10:AA:1220:C:H5"	1.74	0.52
10:AA:141:A:C3'	10:AA:141:A:C8	2.93	0.52
10:AA:576:U:H4'	10:AA:577:C:OP1	2.10	0.52
10:AA:653:U:C2	10:AA:656:G:N2	2.78	0.52
10:AA:760:G:H21	10:AA:766:G:N2	2.03	0.52
10:AA:894:U:C5	10:AA:895:U:C5	2.98	0.52
10:AA:1070:U:OP1	10:AA:1070:U:H6	1.93	0.52
10:AA:1080:G:O6	21:AL:22:GLN:OE1	2.27	0.52
10:AA:1186:G:H5'	10:AA:1216:A:H2	1.75	0.52
10:AA:1191:A:C3'	10:AA:1192:C:H5'	2.40	0.52
10:AA:1399:G:C2'	10:AA:1400:G:H5'	2.39	0.52
10:AA:1443:A:H4'	10:AA:1444:U:O5'	2.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1471:C:P	29:AT:130:ARG:HH22	2.31	0.52
10:AA:1556:G:O2'	10:AA:1557:U:P	2.67	0.52
11:AB:116:ARG:HG3	14:AE:242:GLU:OE2	2.10	0.52
11:AB:139:PRO:CB	35:AZ:47:VAL:HG21	2.40	0.52
14:AE:69:LYS:HE2	14:AE:76:LYS:HZ3	1.75	0.52
19:AJ:38:ILE:HG13	19:AJ:104:PHE:HE2	1.74	0.52
20:AK:75:MET:HE3	20:AK:121:ARG:HH22	1.74	0.52
26:AQ:83:VAL:CG1	26:AQ:84:ILE:N	2.72	0.52
26:AQ:122:LEU:HD23	26:AQ:123:VAL:H	1.68	0.52
27:AR:252:PHE:CD2	27:AR:281:PHE:HD2	2.29	0.52
28:AS:45:LYS:O	28:AS:48:ARG:HB3	2.10	0.52
31:AV:25:THR:HG22	31:AV:26:ASN:N	2.19	0.52
31:AV:61:ILE:C	31:AV:63:LYS:N	2.58	0.52
34:AY:35:GLU:HA	34:AY:35:GLU:OE1	2.09	0.52
34:AY:91:PHE:O	34:AY:91:PHE:HD1	1.93	0.52
34:AY:113:ILE:CD1	34:AY:124:LEU:HD13	2.40	0.52
35:AZ:34:TRP:HD1	35:AZ:82:ALA:HA	1.75	0.52
2:B2:5:ARG:NH2	10:BA:323:U:O2'	2.43	0.52
2:B2:138:LEU:HD11	2:B2:153:ARG:HH12	1.75	0.52
3:B3:178:THR:HG22	3:B3:180:ARG:HG3	1.92	0.52
10:BA:34:U:H6	10:BA:34:U:H5"	1.75	0.52
10:BA:49:C:O2'	10:BA:50:A:C5'	2.50	0.52
10:BA:302:U:C2'	10:BA:303:A:H5"	2.40	0.52
10:BA:645:C:H2'	10:BA:646:A:C8	2.43	0.52
10:BA:670:G:H5'	10:BA:670:G:C8	2.43	0.52
10:BA:744:A:H4'	13:BD:72:GLU:OE1	2.10	0.52
10:BA:1059:A:N6	10:BA:1060:A:N6	2.58	0.52
10:BA:1320:A:H5'	10:BA:1321:G:OP2	2.10	0.52
10:BA:1419:G:H5'	10:BA:1419:G:C8	2.43	0.52
12:BC:104:GLN:HA	12:BC:104:GLN:OE1	2.11	0.52
12:BC:156:LYS:HE3	12:BC:160:MET:HG2	1.91	0.52
13:BD:6:ILE:HG22	13:BD:7:ASN:H	1.75	0.52
13:BD:123:HIS:O	13:BD:124:HIS:C	2.51	0.52
14:BE:228:PRO:CD	17:BH:99:PHE:CE2	2.93	0.52
15:BF:35:VAL:CG1	15:BF:38:ILE:HD11	2.39	0.52
22:BM:93:LYS:HE3	22:BM:93:LYS:CA	2.29	0.52
28:BS:33:LEU:CD2	28:BS:62:VAL:HG21	2.41	0.52
29:BT:118:ARG:HB2	29:BT:133:THR:CG2	2.40	0.52
31:BV:20:TYR:O	31:BV:21:TYR:C	2.53	0.52
34:BY:184:THR:HB	34:BY:185:PRO:CD	2.35	0.52
3:A3:109:LYS:HD2	3:A3:109:LYS:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:132:LEU:O	3:A3:133:PRO:C	2.53	0.51
4:A4:182:ALA:HB2	4:A4:190:PHE:HE2	1.72	0.51
5:A5:53:ILE:HD13	20:AK:116:LEU:HD22	1.92	0.51
8:A8:65:THR:HG22	8:A8:66:VAL:N	2.25	0.51
9:A9:146:UNK:O	9:A9:150:UNK:CG	2.51	0.51
10:AA:141:A:C8	10:AA:141:A:H3'	2.45	0.51
10:AA:1148:G:H1'	10:AA:1167:C:O2'	2.10	0.51
10:AA:1362:U:OP1	31:AV:59:LYS:NZ	2.41	0.51
10:AA:1419:G:H5'	10:AA:1419:G:C8	2.45	0.51
11:AB:156:VAL:CG2	35:AZ:80:HIS:CB	2.88	0.51
11:AB:181:LEU:HD23	35:AZ:58:GLY:O	2.10	0.51
19:AJ:105:ARG:O	19:AJ:105:ARG:HG3	2.09	0.51
20:AK:106:LYS:HZ1	20:AK:136:PRO:HD2	1.75	0.51
20:AK:150:ARG:O	20:AK:151:LEU:CB	2.58	0.51
27:AR:206:ARG:HG2	27:AR:207:TYR:CD1	2.45	0.51
30:AU:46:VAL:CG1	30:AU:56:VAL:HG13	2.35	0.51
30:AU:120:ILE:C	30:AU:122:GLY:N	2.67	0.51
31:AV:53:PHE:CZ	31:AV:57:LEU:HD21	2.45	0.51
4:B4:30:GLU:HG3	4:B4:52:LYS:HD3	1.91	0.51
6:B6:34:LYS:HD2	6:B6:76:ALA:CB	2.40	0.51
9:B9:78:LYS:HB2	9:B9:80:TYR:HE1	1.75	0.51
10:BA:5:U:C2	10:BA:20:G:N2	2.79	0.51
10:BA:830:G:H2'	10:BA:831:G:C8	2.44	0.51
10:BA:971:A:H62	10:BA:989:G:N2	2.07	0.51
10:BA:1004:A:H4'	10:BA:1006:C:C4	2.44	0.51
10:BA:1099:G:O2'	10:BA:1100:U:H5'	2.09	0.51
10:BA:1262:U:H5'	14:BE:96:ARG:HH22	1.76	0.51
10:BA:1277:U:O2	10:BA:1277:U:H2'	2.09	0.51
10:BA:1568:C:OP2	23:BN:18:LYS:NZ	2.41	0.51
10:BA:1623:A:O2'	10:BA:1624:G:H8	1.93	0.51
10:BA:1687:C:H2'	10:BA:1688:C:C6	2.45	0.51
11:BB:134:SER:CB	11:BB:152:TYR:CE2	2.91	0.51
12:BC:196:GLU:HG2	12:BC:203:PHE:HB2	1.92	0.51
13:BD:45:VAL:CG1	13:BD:101:ILE:HG23	2.40	0.51
16:BG:33:ILE:HG23	16:BG:34:ALA:N	2.24	0.51
27:BR:238:LEU:HG	27:BR:248:PRO:HB3	1.92	0.51
27:BR:287:SER:OG	27:BR:288:LYS:N	2.43	0.51
28:BS:86:ARG:CZ	28:BS:122:ALA:HB1	2.40	0.51
31:BV:5:ARG:CG	31:BV:10:LYS:HE2	2.40	0.51
33:BX:7:THR:HG22	33:BX:8:LEU:H	1.75	0.51
34:BY:47:GLY:O	34:BY:117:GLY:HA3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:12:ARG:O	2:A2:15:GLY:N	2.43	0.51
2:A2:40:THR:CG2	2:A2:87:LEU:HD12	2.40	0.51
3:A3:113:ARG:O	3:A3:113:ARG:HG2	2.09	0.51
3:A3:169:ALA:O	3:A3:173:ILE:HG13	2.10	0.51
4:A4:94:VAL:HG13	4:A4:98:ASN:O	2.10	0.51
10:AA:8:U:H5'	10:AA:9:U:OP2	2.09	0.51
10:AA:89:A:N7	10:AA:389:G:C4	2.78	0.51
10:AA:311:U:H4'	10:AA:312:C:C6	2.46	0.51
10:AA:353:G:H8	10:AA:353:G:O5'	1.93	0.51
10:AA:562:G:OP1	21:AL:69:LYS:CE	2.59	0.51
10:AA:966:A:O2'	10:AA:967:U:H5'	2.10	0.51
10:AA:1176:A:H5'	10:AA:1177:C:P	2.50	0.51
10:AA:1269:G:N7	38:AA:2406:HOH:O	2.34	0.51
10:AA:1320:A:H5'	10:AA:1321:G:OP2	2.09	0.51
10:AA:1654:U:H3	10:AA:1671:G:H1	1.57	0.51
10:AA:1674:A:H4'	34:AY:81:HIS:CE1	2.45	0.51
10:AA:1701:C:H2'	10:AA:1702:A:C5'	2.40	0.51
10:AA:1752:U:O3'	10:AA:1753:A:H8	1.93	0.51
12:AC:126:ILE:HG13	12:AC:139:ILE:HD12	1.92	0.51
15:AF:62:VAL:HG21	15:AF:72:LYS:HD2	1.91	0.51
18:AI:29:GLY:HA2	18:AI:65:LEU:O	2.10	0.51
20:AK:42:ILE:HD11	20:AK:115:ALA:HB1	1.91	0.51
24:AO:31:THR:CG2	24:AO:32:PRO:HD2	2.40	0.51
24:AO:143:TYR:HA	24:AO:147:THR:CB	2.40	0.51
28:AS:33:LEU:HD22	28:AS:62:VAL:HG21	1.92	0.51
29:AT:118:ARG:O	29:AT:130:ARG:HA	2.11	0.51
34:AY:57:ASP:C	34:AY:59:ASP:N	2.68	0.51
34:AY:90:GLY:C	34:AY:92:ARG:N	2.67	0.51
1:B1:46:LYS:HB3	16:BG:134:VAL:HG11	1.91	0.51
3:B3:62:LEU:HD11	3:B3:64:TYR:CE1	2.45	0.51
3:B3:131:LEU:HD23	3:B3:170:ILE:HD13	1.91	0.51
5:B5:5:ARG:NH2	10:BA:1748:U:H3'	2.25	0.51
7:B7:11:ARG:C	7:B7:15:GLN:NE2	2.67	0.51
9:B9:148:UNK:C	9:B9:151:UNK:HG3	2.40	0.51
10:BA:138:G:OP2	34:BY:143:LYS:NZ	2.43	0.51
10:BA:152:U:O2'	10:BA:153:U:OP1	2.26	0.51
10:BA:531:A:O4'	10:BA:536:C:N4	2.43	0.51
10:BA:616:A:O2'	10:BA:617:A:P	2.68	0.51
10:BA:1416:G:HO2'	10:BA:1417:A:P	2.32	0.51
10:BA:1604:C:H6	10:BA:1604:C:O5'	1.93	0.51
13:BD:31:ILE:HG23	13:BD:36:LEU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:42:VAL:O	13:BD:46:GLN:HG3	2.11	0.51
15:BF:26:ARG:HB2	15:BF:32:PHE:CE1	2.45	0.51
16:BG:197:LYS:HD3	16:BG:200:ARG:CZ	2.41	0.51
18:BI:121:ALA:O	18:BI:123:PRO:HD3	2.10	0.51
21:BL:26:ASP:HB3	21:BL:29:PHE:HB3	1.92	0.51
22:BM:16:ARG:HG3	22:BM:16:ARG:NH1	2.22	0.51
23:BN:28:GLY:O	23:BN:29:LEU:C	2.53	0.51
25:BP:3:ILE:N	25:BP:3:ILE:HD12	2.25	0.51
27:BR:96:TRP:HA	27:BR:120:GLU:HB3	1.93	0.51
32:BW:150:ARG:HG3	32:BW:150:ARG:NH1	2.25	0.51
34:BY:167:THR:HG22	34:BY:169:LYS:H	1.74	0.51
3:A3:157:GLN:HB2	3:A3:188:GLU:HA	1.92	0.51
5:A5:26:CYS:SG	5:A5:28:ARG:HB2	2.49	0.51
5:A5:89:ARG:NH1	5:A5:93:ASP:O	2.43	0.51
6:A6:18:LYS:HZ2	10:AA:936:U:C5’	2.20	0.51
7:A7:23:VAL:HG11	12:AC:78:LYS:HB3	1.91	0.51
8:A8:30:TRP:HH2	15:BF:84:PHE:CE1	2.28	0.51
10:AA:71:U:HO2’	10:AA:72:G:P	2.32	0.51
10:AA:290:A:C2’	10:AA:291:A:H5’	2.40	0.51
10:AA:456:A:O2’	10:AA:457:G:H5’	2.11	0.51
10:AA:1366:G:N2	10:AA:1374:C:C2	2.79	0.51
10:AA:1556:G:HO2’	10:AA:1582:G:H1	1.59	0.51
13:AD:37:LYS:HB2	13:AD:38:ASN:OD1	2.11	0.51
13:AD:47:MET:O	13:AD:50:ALA:HB3	2.11	0.51
16:AG:32:TYR:O	16:AG:33:ILE:HD12	2.10	0.51
20:AK:34:MET:HA	20:AK:98:ARG:HG3	1.90	0.51
20:AK:46:ASP:OD1	20:AK:51:GLU:HB2	2.11	0.51
20:AK:121:ARG:C	20:AK:123:GLY:H	2.18	0.51
23:AN:29:LEU:O	23:AN:31:THR:N	2.43	0.51
25:AP:51:ARG:HH22	25:AP:148:ALA:HB3	1.75	0.51
27:AR:77:HIS:CG	27:AR:78:PHE:H	2.25	0.51
27:AR:146:ASN:O	27:AR:148:LEU:N	2.42	0.51
28:AS:73:PRO:C	28:AS:75:GLY:N	2.66	0.51
29:AT:56:TRP:C	29:AT:56:TRP:CD1	2.88	0.51
30:AU:44:VAL:HG21	30:AU:63:CYS:SG	2.50	0.51
35:AZ:25:ASP:O	35:AZ:27:TYR:N	2.43	0.51
2:B2:111:GLU:HA	2:B2:172:ILE:O	2.09	0.51
7:B7:69:ASN:HD21	7:B7:71:GLU:CB	2.22	0.51
9:B9:146:UNK:O	9:B9:150:UNK:CG	2.51	0.51
10:BA:8:U:H5’	10:BA:9:U:OP2	2.11	0.51
10:BA:90:U:H6	10:BA:90:U:O5’	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:222:U:O2'	10:BA:223:C:H5'	2.11	0.51
10:BA:352:C:C2	10:BA:375:G:N2	2.79	0.51
10:BA:595:A:H2'	10:BA:596:U:O4'	2.10	0.51
10:BA:747:G:N2	10:BA:755:G:H1	2.08	0.51
10:BA:849:A:H2'	10:BA:850:G:C8	2.45	0.51
10:BA:1263:G:O5'	10:BA:1263:G:C8	2.63	0.51
10:BA:1277:U:H1'	10:BA:1286:U:C4	2.45	0.51
10:BA:1360:U:O2'	10:BA:1361:A:H8	1.93	0.51
10:BA:1385:U:C6	10:BA:1385:U:OP1	2.64	0.51
10:BA:1693:A:O2'	10:BA:1694:U:H5'	2.10	0.51
10:BA:1752:U:O3'	10:BA:1753:A:H8	1.94	0.51
11:BB:137:ASN:ND2	14:BE:54:PRO:HD3	2.25	0.51
11:BB:139:PRO:HD3	35:BZ:47:VAL:HG21	1.91	0.51
12:BC:82:TYR:C	12:BC:84:ASP:N	2.67	0.51
13:BD:8:THR:CG2	13:BD:9:SER:H	2.11	0.51
14:BE:184:ILE:HB	14:BE:185:PRO:HD3	1.92	0.51
16:BG:99:THR:O	16:BG:101:ARG:N	2.42	0.51
27:BR:272:VAL:O	27:BR:278:VAL:HG13	2.11	0.51
32:BW:8:HIS:O	32:BW:30:ARG:HD2	2.11	0.51
2:A2:75:TRP:NE1	2:A2:77:SER:HB2	2.26	0.51
2:A2:192:GLU:HB2	26:AQ:19:SER:HB3	1.92	0.51
7:A7:12:ILE:HA	7:A7:15:GLN:NE2	2.25	0.51
7:A7:69:ASN:HD21	7:A7:71:GLU:CB	2.20	0.51
8:A8:57:PRO:HB3	8:A8:87:MET:HE3	1.88	0.51
9:A9:83:LYS:CG	9:A9:84:LYS:N	2.73	0.51
10:AA:110:A:H4'	10:AA:111:G:O5'	2.11	0.51
10:AA:413:C:O5'	10:AA:413:C:H6	1.94	0.51
10:AA:537:A:O2'	10:AA:538:A:C5'	2.59	0.51
10:AA:782:A:O2'	32:AW:209:ILE:HD13	2.11	0.51
10:AA:1059:A:H2'	10:AA:1060:A:C8	2.45	0.51
10:AA:1409:G:H8	10:AA:1409:G:O5'	1.92	0.51
10:AA:1652:A:C2	34:AY:66:GLY:HA3	2.46	0.51
11:AB:5:ARG:HG2	11:AB:187:LYS:HZ1	1.73	0.51
13:AD:31:ILE:HG23	13:AD:36:LEU:HB2	1.92	0.51
16:AG:101:ARG:O	16:AG:103:PRO:CD	2.58	0.51
19:AJ:27:ASN:HD21	19:AJ:29:LYS:HB2	1.75	0.51
23:AN:26:ARG:O	23:AN:30:ILE:HD11	2.09	0.51
27:AR:107:THR:C	27:AR:109:THR:N	2.68	0.51
28:AS:58:TYR:HB3	28:AS:88:MET:CE	2.40	0.51
32:AW:185:ILE:HG22	32:AW:226:ASN:O	2.11	0.51
34:AY:90:GLY:O	34:AY:92:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:9:LYS:HA	7:B7:45:LEU:HD11	1.90	0.51
8:B8:43:VAL:HG12	22:BM:57:ARG:HD2	1.92	0.51
10:BA:99:A:O2'	10:BA:299:C:N4	2.44	0.51
10:BA:188:G:H2'	10:BA:189:C:H5"	1.91	0.51
10:BA:653:U:C2	10:BA:656:G:N2	2.79	0.51
10:BA:894:U:C5	10:BA:895:U:C5	2.98	0.51
10:BA:928:C:H2'	10:BA:929:A:C8	2.45	0.51
10:BA:955:A:C2	10:BA:956:A:N3	2.78	0.51
10:BA:1027:U:C2'	10:BA:1028:G:H5"	2.40	0.51
10:BA:1333:A:N7	10:BA:1334:U:C4	2.79	0.51
10:BA:1352:A:O2'	10:BA:1353:G:O5'	2.26	0.51
10:BA:1712:C:H2'	10:BA:1713:G:O4'	2.09	0.51
12:BC:9:ASN:HD22	12:BC:12:LYS:CD	2.23	0.51
13:BD:8:THR:O	13:BD:9:SER:CB	2.58	0.51
15:BF:26:ARG:HG3	15:BF:32:PHE:CE2	2.45	0.51
17:BH:89:TRP:CE3	17:BH:93:ILE:HD11	2.46	0.51
18:BI:44:GLN:CA	18:BI:47:GLN:HE21	1.98	0.51
25:BP:141:ASP:O	25:BP:145:ASN:ND2	2.43	0.51
25:BP:146:PHE:CD1	25:BP:147:VAL:N	2.79	0.51
27:BR:291:VAL:HG12	27:BR:292:CYS:N	2.25	0.51
28:BS:15:GLY:N	28:BS:114:PHE:HE2	2.08	0.51
28:BS:38:LEU:O	28:BS:42:PHE:CD1	2.64	0.51
28:BS:58:TYR:HB3	28:BS:88:MET:CE	2.41	0.51
32:BW:37:LYS:HB3	32:BW:37:LYS:HZ3	1.76	0.51
32:BW:49:LYS:CE	32:BW:58:GLY:HA2	2.41	0.51
2:A2:8:LYS:C	2:A2:10:LYS:H	2.19	0.51
2:A2:8:LYS:CD	2:A2:18:MET:HE1	2.39	0.51
4:A4:135:GLY:O	4:A4:136:TYR:HD1	1.94	0.51
6:A6:32:ASP:O	6:A6:77:PHE:HA	2.10	0.51
9:A9:88:HIS:CD2	10:AA:1220:C:OP1	2.63	0.51
10:AA:3:C:H5'	10:AA:3:C:C6	2.40	0.51
10:AA:31:U:H3	10:AA:460:A:H2	1.57	0.51
10:AA:150:A:N6	10:AA:409:G:C6	2.78	0.51
10:AA:504:A:H5'	13:AD:171:ARG:HG2	1.93	0.51
10:AA:561:A:H2'	10:AA:562:G:O4'	2.11	0.51
10:AA:745:G:H2'	10:AA:746:A:C8	2.45	0.51
10:AA:854:G:H1'	10:AA:922:A:H1'	1.93	0.51
10:AA:1064:A:O2'	10:AA:1065:A:H5"	2.10	0.51
10:AA:1263:G:H5'	14:AE:120:LYS:HE3	1.91	0.51
10:AA:1277:U:O2'	10:AA:1278:C:P	2.68	0.51
10:AA:1305:C:C1'	12:AC:165:GLN:HG3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AM:138:THR:HG22	22:AM:138:THR:O	2.10	0.51
32:AW:161:THR:HG23	32:AW:228:PHE:HE1	1.76	0.51
33:AX:59:SER:O	33:AX:61:ASN:N	2.43	0.51
34:AY:98:ARG:HD2	34:AY:99:GLY:N	2.26	0.51
34:AY:98:ARG:NH2	34:AY:101:ILE:O	2.44	0.51
34:AY:166:LYS:HA	34:AY:171:LYS:O	2.10	0.51
2:B2:22:ARG:NH1	2:B2:25:ARG:NH1	2.53	0.51
4:B4:94:VAL:HG13	4:B4:98:ASN:O	2.10	0.51
5:B5:57:LEU:HG	5:B5:58:ALA:N	2.25	0.51
10:BA:74:A:N3	34:BY:179:ILE:CD1	2.73	0.51
10:BA:101:A:H2'	10:BA:102:A:C8	2.46	0.51
10:BA:125:U:N3	10:BA:171:U:O4	2.43	0.51
10:BA:251:G:O2'	10:BA:252:U:H5'	2.10	0.51
10:BA:319:A:OP1	26:BQ:55:LYS:HE3	2.09	0.51
10:BA:424:A:O2'	10:BA:425:A:H5'	2.10	0.51
10:BA:537:A:C2'	10:BA:538:A:OP2	2.59	0.51
10:BA:629:A:OP1	10:BA:630:A:OP2	2.29	0.51
10:BA:765:A:O2'	10:BA:766:G:P	2.69	0.51
10:BA:798:G:O2'	10:BA:799:G:C5'	2.54	0.51
10:BA:1080:G:O6	21:BL:22:GLN:OE1	2.28	0.51
10:BA:1085:A:H4'	10:BA:1086:G:OP1	2.10	0.51
10:BA:1155:A:N1	28:BS:104:GLY:HA3	2.25	0.51
10:BA:1517:A:OP1	22:BM:132:LYS:HA	2.10	0.51
10:BA:1555:A:C2	10:BA:1557:U:O4	2.63	0.51
10:BA:1568:C:O2'	10:BA:1570:U:H5	1.93	0.51
14:BE:41:LYS:O	14:BE:42:ILE:CG1	2.52	0.51
14:BE:69:LYS:HE2	14:BE:76:LYS:NZ	2.25	0.51
14:BE:145:TRP:N	14:BE:153:HIS:HE1	2.06	0.51
16:BG:62:PRO:O	16:BG:64:VAL:N	2.43	0.51
16:BG:157:ALA:O	16:BG:158:PHE:O	2.28	0.51
20:BK:31:CYS:HA	20:BK:43:HIS:O	2.09	0.51
25:BP:127:LYS:O	25:BP:128:LYS:C	2.53	0.51
27:BR:83:ALA:HB1	27:BR:126:PHE:HB2	1.92	0.51
28:BS:127:THR:HG22	28:BS:127:THR:O	2.11	0.51
30:BU:89:ASN:CG	30:BU:90:ALA:N	2.67	0.51
9:A9:85:LYS:CG	9:A9:86:THR:H	2.10	0.51
9:A9:108:LYS:HA	30:AU:65:LYS:HE3	1.92	0.51
9:A9:144:ASP:O	9:A9:147:UNK:CG	2.47	0.51
10:AA:542:G:H2'	10:AA:543:A:H8	1.74	0.51
10:AA:616:A:O2'	10:AA:617:A:P	2.68	0.51
10:AA:1050:C:H2'	10:AA:1051:G:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1467:U:H3	10:AA:1483:G:H1	1.58	0.51
12:AC:129:VAL:HG12	12:AC:134:ALA:HB2	1.92	0.51
17:AH:128:PHE:C	17:AH:128:PHE:CD1	2.88	0.51
18:AI:12:PHE:O	18:AI:89:LYS:HD2	2.11	0.51
19:AJ:18:ARG:O	19:AJ:18:ARG:HG3	2.10	0.51
21:AL:42:PHE:HB3	21:AL:45:ALA:HB3	1.93	0.51
25:AP:92:VAL:HG12	25:AP:92:VAL:O	2.09	0.51
26:AQ:17:LEU:HD23	26:AQ:20:LYS:NZ	2.25	0.51
27:AR:15:GLY:CA	27:AR:65:PHE:HB2	2.36	0.51
31:AV:34:ILE:O	31:AV:38:VAL:HG23	2.10	0.51
32:AW:10:LYS:O	32:AW:11:ARG:C	2.53	0.51
32:AW:163:LYS:HD2	32:AW:237:TRP:CZ3	2.45	0.51
32:AW:188:GLY:C	32:AW:190:ASN:H	2.18	0.51
33:AX:40:LEU:HA	33:AX:43:ARG:HG2	1.92	0.51
2:B2:8:LYS:C	2:B2:10:LYS:H	2.19	0.51
2:B2:105:VAL:HB	2:B2:108:SER:OG	2.10	0.51
3:B3:44:GLN:HG2	3:B3:45:VAL:N	2.25	0.51
3:B3:122:VAL:O	3:B3:125:ALA:HB3	2.11	0.51
5:B5:37:LYS:NZ	10:BA:911:A:OP1	2.43	0.51
5:B5:66:ILE:HG22	5:B5:67:PRO:O	2.09	0.51
7:B7:12:ILE:HA	7:B7:15:GLN:CD	2.35	0.51
9:B9:159:UNK:O	9:B9:162:UNK:HG3	2.10	0.51
10:BA:75:C:O5'	10:BA:75:C:C6	2.61	0.51
10:BA:137:G:H2'	10:BA:138:G:C8	2.45	0.51
10:BA:147:G:H1	10:BA:155:U:H3	1.57	0.51
10:BA:272:U:C3'	10:BA:273:A:H5"	2.41	0.51
10:BA:1004:A:C2	10:BA:1745:G:C5	2.99	0.51
10:BA:1245:G:O2'	10:BA:1246:C:P	2.69	0.51
10:BA:1286:U:O2'	10:BA:1287:U:OP2	2.28	0.51
10:BA:1373:G:OP1	31:BV:4:VAL:HA	2.11	0.51
10:BA:1409:G:H8	10:BA:1409:G:O5'	1.93	0.51
10:BA:1469:U:OP2	29:BT:77:SER:OG	2.27	0.51
10:BA:1507:U:O2'	10:BA:1508:G:P	2.69	0.51
10:BA:1590:C:O2'	10:BA:1591:C:H5"	2.11	0.51
13:BD:83:TYR:HE2	13:BD:147:MET:HB3	1.76	0.51
16:BG:22:VAL:HG12	16:BG:23:LYS:H	1.76	0.51
16:BG:52:GLN:HE22	16:BG:58:LYS:HE2	1.75	0.51
17:BH:99:PHE:N	17:BH:99:PHE:CD1	2.79	0.51
19:BJ:95:VAL:N	19:BJ:96:PRO:CD	2.73	0.51
25:BP:51:ARG:HH22	25:BP:148:ALA:HB3	1.76	0.51
25:BP:98:LYS:HD3	25:BP:98:LYS:H	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BQ:83:VAL:CG1	26:BQ:84:ILE:N	2.73	0.51
27:BR:233:LYS:C	27:BR:235:LYS:N	2.67	0.51
31:BV:88:LYS:O	31:BV:89:SER:C	2.54	0.51
33:BX:59:SER:O	33:BX:61:ASN:N	2.44	0.51
34:BY:71:GLY:HA2	34:BY:98:ARG:NH1	2.26	0.51
3:A3:66:HIS:ND1	3:A3:67:PHE:N	2.59	0.51
4:A4:207:THR:C	4:A4:209:ASN:N	2.67	0.51
6:A6:34:LYS:HD2	6:A6:76:ALA:HB3	1.93	0.51
7:A7:91:THR:HG22	7:A7:91:THR:O	2.10	0.51
10:AA:155:U:H4'	34:AY:83:CYS:HA	1.93	0.51
10:AA:207:U:H2'	10:AA:208:A:H8	1.75	0.51
10:AA:422:G:O2'	10:AA:423:G:H5'	2.11	0.51
10:AA:726:U:O4	10:AA:727:U:C4	2.64	0.51
10:AA:830:G:H2'	10:AA:831:G:C8	2.45	0.51
10:AA:968:C:O2'	20:AK:141:ARG:HG2	2.11	0.51
10:AA:1027:U:O2'	10:AA:1028:G:H5"	2.10	0.51
10:AA:1572:A:N7	10:AA:1574:C:N4	2.58	0.51
10:AA:1661:G:H1'	10:AA:1663:A:H62	1.74	0.51
12:AC:35:ALA:HB2	12:AC:60:GLN:CG	2.40	0.51
12:AC:84:ASP:O	12:AC:84:ASP:OD1	2.28	0.51
13:AD:26:ASN:HA	13:AD:29:LYS:HG3	1.93	0.51
19:AJ:25:CYS:HB3	19:AJ:31:VAL:HB	1.92	0.51
20:AK:45:THR:HG21	20:AK:49:GLY:HA2	1.91	0.51
21:AL:40:ASN:CB	21:AL:41:PRO:HD2	2.38	0.51
23:AN:39:ARG:HH11	23:AN:39:ARG:HG2	1.76	0.51
24:AO:88:GLU:O	24:AO:89:ASP:C	2.52	0.51
27:AR:281:PHE:CD1	27:AR:281:PHE:N	2.79	0.51
28:AS:47:ARG:O	28:AS:51:LYS:HB2	2.10	0.51
32:AW:129:THR:HB	32:AW:142:VAL:HG12	1.92	0.51
32:AW:150:ARG:HG2	32:AW:151:PHE:CD1	2.41	0.51
34:AY:179:ILE:O	34:AY:179:ILE:HG22	2.10	0.51
34:AY:211:GLU:HA	34:AY:211:GLU:OE1	2.10	0.51
2:B2:123:LEU:C	2:B2:123:LEU:HD23	2.35	0.51
2:B2:173:LEU:HB3	2:B2:191:LEU:CD1	2.40	0.51
4:B4:66:ARG:NH1	20:BK:48:SER:OG	2.44	0.51
5:B5:59:PHE:O	5:B5:60:GLU:O	2.28	0.51
5:B5:77:ILE:C	5:B5:81:ILE:HD12	2.33	0.51
10:BA:534:A:C3'	10:BA:535:A:H5'	2.15	0.51
10:BA:562:G:OP1	21:BL:69:LYS:HD2	2.10	0.51
10:BA:597:U:O2'	10:BA:598:A:H5'	2.10	0.51
10:BA:605:U:H1'	26:BQ:96:TYR:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1187:C:C4	10:BA:1188:A:C6	2.99	0.51
10:BA:1442:A:H5'	10:BA:1545:A:H62	1.76	0.51
10:BA:1454:A:O2'	10:BA:1455:A:H5'	2.11	0.51
11:BB:22:THR:CG2	11:BB:23:ILE:H	2.24	0.51
16:BG:14:PHE:CD2	16:BG:89:LYS:HG3	2.45	0.51
16:BG:47:THR:O	16:BG:48:ALA:C	2.54	0.51
17:BH:77:PRO:O	17:BH:78:ARG:HB2	2.10	0.51
19:BJ:38:ILE:HG13	19:BJ:104:PHE:HE2	1.76	0.51
25:BP:56:TYR:C	25:BP:56:TYR:HD1	2.19	0.51
27:BR:212:HIS:HE1	27:BR:231:GLY:HA2	1.76	0.51
30:BU:20:ASN:HD21	30:BU:27:LYS:NZ	2.08	0.51
34:BY:137:ARG:CG	34:BY:181:ARG:HG3	2.41	0.51
4:A4:42:SER:O	4:A4:43:LYS:O	2.29	0.51
7:A7:11:ARG:O	7:A7:15:GLN:HG3	2.11	0.51
10:AA:188:G:C4	10:AA:190:G:H1'	2.46	0.51
10:AA:300:C:H5'	10:AA:300:C:C6	2.46	0.51
10:AA:879:G:C6	10:AA:880:G:C6	2.99	0.51
10:AA:932:G:C5'	24:AO:7:LYS:NZ	2.74	0.51
10:AA:1111:A:H2'	10:AA:1112:A:H8	1.76	0.51
25:AP:9:LYS:O	25:AP:21:LEU:HA	2.10	0.51
27:AR:125:ALA:HB2	27:AR:168:VAL:HG23	1.93	0.51
27:AR:297:GLU:H	27:AR:298:PRO:CD	2.24	0.51
1:B1:8:LYS:HG2	1:B1:56:GLU:OE1	2.11	0.51
2:B2:39:THR:HB	2:B2:69:CYS:HB3	1.91	0.51
4:B4:108:ILE:CG2	4:B4:109:THR:H	2.17	0.51
4:B4:117:ILE:HG22	4:B4:117:ILE:O	2.10	0.51
5:B5:34:LYS:NZ	10:BA:1744:U:C5	2.78	0.51
5:B5:45:VAL:HG12	5:B5:49:SER:HB3	1.93	0.51
8:B8:50:VAL:O	8:B8:54:ILE:HG13	2.11	0.51
9:B9:131:ARG:NH1	9:B9:142:LYS:HB3	2.25	0.51
9:B9:164:UNK:C	9:B9:167:UNK:HG3	2.41	0.51
10:BA:212:A:H1'	10:BA:239:A:N6	2.25	0.51
10:BA:216:G:O2'	10:BA:217:A:H5'	2.10	0.51
10:BA:280:U:H2'	10:BA:281:A:H8	1.76	0.51
10:BA:407:A:C4'	10:BA:408:C:OP2	2.50	0.51
10:BA:553:A:N6	12:BC:181:LYS:HB3	2.26	0.51
10:BA:1201:G:O2'	10:BA:1202:A:H8	1.94	0.51
10:BA:1263:G:N2	10:BA:1296:G:N1	2.54	0.51
10:BA:1511:A:O2'	10:BA:1512:G:OP2	2.28	0.51
10:BA:1701:C:H2'	10:BA:1702:A:C5'	2.41	0.51
11:BB:149:PRO:C	11:BB:151:ALA:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:28:MET:HB3	33:BX:45:TYR:HD2	1.76	0.51
14:BE:154:THR:CG2	14:BE:155:ILE:HG13	2.39	0.51
17:BH:71:LYS:HG3	17:BH:128:PHE:HE1	1.76	0.51
21:BL:52:VAL:HG22	21:BL:71:VAL:HG11	1.91	0.51
21:BL:61:LYS:HD2	21:BL:117:PRO:HA	1.93	0.51
22:BM:87:ASN:ND2	22:BM:99:GLN:NE2	2.57	0.51
26:BQ:70:ILE:HD11	26:BQ:136:PHE:CE1	2.46	0.51
32:BW:222:THR:HG23	32:BW:223:ARG:N	2.25	0.51
34:BY:153:PRO:CG	34:BY:154:ILE:H	2.21	0.51
3:A3:5:LYS:O	3:A3:6:PHE:CD1	2.64	0.51
7:A7:12:ILE:HA	7:A7:15:GLN:CD	2.36	0.51
9:A9:120:GLY:C	9:A9:122:GLY:H	2.18	0.51
10:AA:212:A:H1'	10:AA:239:A:N6	2.26	0.51
10:AA:251:G:O2'	10:AA:252:U:H5'	2.11	0.51
10:AA:327:G:C2'	10:AA:328:G:C5'	2.82	0.51
10:AA:427:A:C6	10:AA:428:A:C2	2.99	0.51
10:AA:584:C:H5"	33:AX:44:ARG:HH22	1.76	0.51
10:AA:753:C:H2'	10:AA:754:A:H5'	1.91	0.51
10:AA:971:A:H2'	10:AA:972:G:C5'	2.39	0.51
10:AA:1009:U:C4'	10:AA:1010:A:OP2	2.56	0.51
10:AA:1037:G:O2'	10:AA:1038:U:H5'	2.11	0.51
10:AA:1174:A:H2'	10:AA:1175:A:C5'	2.33	0.51
10:AA:1511:A:OP2	10:AA:1511:A:H8	1.93	0.51
10:AA:1513:G:H2'	10:AA:1514:G:C1'	2.41	0.51
10:AA:1531:G:C4	22:AM:134:ARG:HD2	2.46	0.51
10:AA:1674:A:H4'	34:AY:81:HIS:HE1	1.76	0.51
11:AB:56:ALA:HB2	11:AB:157:ILE:HD11	1.92	0.51
12:AC:45:THR:C	12:AC:47:THR:N	2.65	0.51
12:AC:109:ASN:ND2	12:AC:178:VAL:HG13	2.25	0.51
13:AD:42:VAL:O	13:AD:46:GLN:HG3	2.10	0.51
15:AF:26:ARG:HB2	15:AF:32:PHE:CE1	2.46	0.51
16:AG:125:THR:HB	16:AG:130:ARG:NH2	2.25	0.51
23:AN:25:ALA:HB1	23:AN:27:GLN:OE1	2.10	0.51
27:AR:291:VAL:HG12	27:AR:292:CYS:N	2.26	0.51
29:AT:40:TRP:O	29:AT:41:THR:O	2.29	0.51
32:AW:57:ASN:O	32:AW:60:ASP:HB2	2.11	0.51
35:AZ:73:VAL:HG13	35:AZ:78:GLU:HB3	1.93	0.51
2:B2:82:ARG:NH1	10:BA:254:A:H5'	2.25	0.51
3:B3:130:LEU:HD23	3:B3:130:LEU:N	2.26	0.51
3:B3:145:LEU:O	3:B3:146:ASP:C	2.54	0.51
10:BA:313:G:O2'	10:BA:314:A:P	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:607:G:OP2	10:BA:1071:U:C6	2.64	0.51
10:BA:764:U:N3	10:BA:766:G:C2	2.79	0.51
10:BA:868:U:C2'	10:BA:869:A:C5'	2.85	0.51
10:BA:1186:G:H5'	10:BA:1216:A:C2	2.46	0.51
10:BA:1201:G:O6	30:BU:30:HIS:HB3	2.10	0.51
10:BA:1551:U:H2'	10:BA:1552:U:H6	1.72	0.51
10:BA:1703:A:H2'	10:BA:1704:C:H6	1.76	0.51
11:BB:114:GLU:HB2	14:BE:32:LYS:HE3	1.92	0.51
26:BQ:12:GLN:O	26:BQ:53:VAL:HG13	2.11	0.51
27:BR:109:THR:HG22	27:BR:110:THR:N	2.25	0.51
27:BR:275:ASP:CB	27:BR:311:GLN:HG2	2.41	0.51
27:BR:312:CYS:HB3	27:BR:328:PHE:CZ	2.45	0.51
28:BS:60:LYS:HD3	28:BS:64:LYS:HE3	1.93	0.51
29:BT:9:THR:CG2	29:BT:10:VAL:H	2.24	0.51
34:BY:132:LYS:HZ3	34:BY:163:ARG:HB2	1.75	0.51
34:BY:211:GLU:OE1	34:BY:211:GLU:HA	2.11	0.51
2:A2:63:PHE:CD1	2:A2:63:PHE:N	2.79	0.51
2:A2:101:THR:HG22	2:A2:101:THR:O	2.11	0.51
8:A8:39:VAL:HG13	8:A8:74:LYS:HE2	1.93	0.51
10:AA:765:A:O2'	10:AA:766:G:P	2.69	0.51
11:AB:22:THR:CG2	11:AB:23:ILE:H	2.23	0.51
12:AC:119:ARG:HH12	14:AE:123:GLN:H	1.59	0.51
13:AD:83:TYR:HE2	13:AD:147:MET:HB3	1.76	0.51
13:AD:93:LEU:O	13:AD:96:VAL:HG23	2.11	0.51
14:AE:184:ILE:HG23	14:AE:212:LEU:HD21	1.93	0.51
16:AG:191:GLU:O	16:AG:195:VAL:HG23	2.11	0.51
17:AH:79:TYR:CD1	17:AH:79:TYR:N	2.79	0.51
20:AK:101:GLY:CA	20:AK:133:THR:HG22	2.41	0.51
21:AL:55:LYS:HD3	21:AL:55:LYS:H	1.76	0.51
22:AM:1:MET:H3	22:AM:3:PHE:HE2	1.58	0.51
22:AM:50:LEU:HD22	22:AM:68:LYS:HB3	1.92	0.51
30:AU:29:LEU:HD12	30:AU:55:TYR:CE2	2.46	0.51
31:AV:5:ARG:CG	31:AV:10:LYS:HE2	2.40	0.51
31:AV:47:ARG:HD2	31:AV:47:ARG:C	2.36	0.51
34:AY:131:ARG:NH2	34:AY:133:LEU:O	2.44	0.51
5:B5:58:ALA:HB2	20:BK:126:ILE:N	2.26	0.51
9:B9:113:GLN:HA	9:B9:127:LYS:CE	2.41	0.51
10:BA:116:U:H3	32:BW:33:GLN:CD	2.19	0.51
10:BA:426:G:H21	10:BA:428:A:H3'	1.76	0.51
10:BA:506:U:H5'	13:BD:131:GLN:HB3	1.93	0.51
10:BA:605:U:O2	10:BA:605:U:C2'	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:617:A:O2'	10:BA:618:G:OP1	2.24	0.51
10:BA:670:G:C5'	10:BA:670:G:H8	2.24	0.51
10:BA:1171:G:O2'	10:BA:1172:G:P	2.69	0.51
10:BA:1728:U:O2'	10:BA:1729:A:H5'	2.11	0.51
11:BB:56:ALA:HB2	11:BB:157:ILE:HD11	1.93	0.51
12:BC:10:LYS:O	12:BC:14:PHE:HB2	2.11	0.51
12:BC:105:VAL:HG22	12:BC:189:VAL:CG2	2.40	0.51
12:BC:141:ILE:HG22	12:BC:185:MET:HE1	1.93	0.51
14:BE:176:GLY:O	14:BE:178:GLY:N	2.40	0.51
15:BF:52:LYS:HE2	15:BF:59:ALA:H	1.76	0.51
16:BG:189:LYS:O	16:BG:189:LYS:HD3	2.11	0.51
16:BG:197:LYS:O	16:BG:200:ARG:HG2	2.10	0.51
17:BH:110:ILE:C	17:BH:111:LEU:HD23	2.36	0.51
24:BO:98:LEU:CD1	24:BO:148:ALA:HB1	2.40	0.51
26:BQ:12:GLN:HG3	26:BQ:16:PHE:HE1	1.76	0.51
27:BR:33:GLN:NE2	27:BR:87:GLU:HA	2.26	0.51
27:BR:281:PHE:HA	27:BR:290:PRO:HD2	1.92	0.51
30:BU:76:ARG:O	30:BU:79:LEU:HB2	2.10	0.51
32:BW:161:THR:HG23	32:BW:228:PHE:HE1	1.76	0.51
35:BZ:47:VAL:HG22	35:BZ:48:GLN:N	2.26	0.51
3:A3:13:THR:O	3:A3:17:GLU:HG3	2.11	0.50
4:A4:75:LEU:HB2	4:A4:79:SER:OG	2.10	0.50
4:A4:90:VAL:HG23	4:A4:104:TYR:CG	2.46	0.50
4:A4:119:LYS:HG2	4:A4:119:LYS:O	2.11	0.50
8:A8:27:LYS:HD3	8:A8:27:LYS:H	1.75	0.50
9:A9:121:PRO:HB2	30:AU:38:ALA:HA	1.92	0.50
10:AA:75:C:OP1	34:AY:176:CYS:HB3	2.10	0.50
10:AA:311:U:H5'	10:AA:312:C:C5'	2.34	0.50
10:AA:453:G:OP1	13:AD:3:LYS:HE3	2.11	0.50
10:AA:752:C:O2'	10:AA:753:C:H5'	2.12	0.50
10:AA:761:U:C5	10:AA:764:U:N3	2.79	0.50
10:AA:761:U:O2'	10:AA:762:U:H5"	2.11	0.50
10:AA:795:A:H4'	10:AA:796:U:C5'	2.40	0.50
10:AA:843:A:H2'	10:AA:844:G:C8	2.41	0.50
10:AA:882:G:O6	10:AA:883:A:C2	2.64	0.50
10:AA:1319:U:O4'	10:AA:1489:U:O2	2.29	0.50
10:AA:1606:C:C6	10:AA:1606:C:C3'	2.94	0.50
10:AA:1608:C:H4'	10:AA:1609:C:OP1	2.10	0.50
10:AA:1608:C:N4	10:AA:1610:G:N2	2.59	0.50
11:AB:5:ARG:NE	11:AB:176:ARG:HH21	2.09	0.50
12:AC:98:GLY:HA2	12:AC:104:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AF:26:ARG:HG3	15:AF:32:PHE:CE2	2.46	0.50
16:AG:96:HIS:O	16:AG:100:GLY:HA2	2.10	0.50
20:AK:30:VAL:HG22	20:AK:94:HIS:HB2	1.92	0.50
24:AO:30:MET:O	24:AO:31:THR:C	2.52	0.50
25:AP:34:SER:O	25:AP:35:LYS:C	2.54	0.50
26:AQ:97:ASN:C	26:AQ:98:ARG:HG2	2.34	0.50
27:AR:181:GLN:HG3	27:AR:183:PHE:CZ	2.46	0.50
27:AR:241:ASP:OD2	27:AR:243:LEU:HB2	2.10	0.50
32:AW:88:LEU:CD1	32:AW:104:LEU:HD23	2.41	0.50
34:AY:36:VAL:HB	34:AY:50:PHE:HB2	1.93	0.50
34:AY:137:ARG:CG	34:AY:181:ARG:HG3	2.40	0.50
1:B1:46:LYS:HE3	16:BG:140:ARG:HE	1.76	0.50
2:B2:105:VAL:HG13	10:BA:320:G:C4'	2.41	0.50
4:B4:58:ILE:O	4:B4:59:ALA:C	2.54	0.50
7:B7:56:GLU:HB3	7:B7:67:TYR:CE1	2.46	0.50
10:BA:315:U:O2'	26:BQ:79:MET:CE	2.59	0.50
10:BA:605:U:H5'	10:BA:606:U:OP2	2.11	0.50
10:BA:635:U:O2'	10:BA:636:G:H5'	2.11	0.50
10:BA:733:G:N2	10:BA:782:A:C6	2.72	0.50
10:BA:760:G:H21	10:BA:766:G:N2	2.05	0.50
10:BA:787:A:O2'	17:BH:105:THR:HG23	2.11	0.50
10:BA:794:A:C2	10:BA:836:G:C1'	2.93	0.50
10:BA:1164:C:H5"	10:BA:1165:A:H3'	1.93	0.50
11:BB:203:LEU:HD22	11:BB:204:PRO:HD2	1.93	0.50
18:BI:31:LEU:HD13	18:BI:38:ILE:CD1	2.37	0.50
20:BK:106:LYS:HZ1	20:BK:136:PRO:HD2	1.76	0.50
21:BL:3:VAL:HG12	21:BL:4:GLY:N	2.21	0.50
24:BO:8:GLY:O	24:BO:9:LYS:HB2	2.10	0.50
27:BR:169:ARG:O	27:BR:187:PHE:HB2	2.11	0.50
27:BR:171:SER:HB3	27:BR:186:TYR:CZ	2.46	0.50
27:BR:266:LYS:O	27:BR:268:GLN:N	2.44	0.50
29:BT:24:SER:HA	29:BT:27:LYS:HG3	1.92	0.50
2:A2:7:SER:HB3	10:AA:327:G:H21	1.76	0.50
2:A2:114:SER:HA	2:A2:172:ILE:CD1	2.42	0.50
6:A6:17:ASN:O	6:A6:18:LYS:C	2.55	0.50
6:A6:23:ILE:HG23	24:AO:20:PHE:CD2	2.46	0.50
9:A9:126:ALA:HB1	10:AA:1223:U:O2'	2.11	0.50
10:AA:68:U:H4'	34:AY:169:LYS:NZ	2.25	0.50
10:AA:605:U:H5'	10:AA:606:U:OP2	2.11	0.50
10:AA:896:U:H2'	10:AA:897:A:H8	1.77	0.50
10:AA:1069:U:O4	14:AE:202:GLN:CD	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1361:A:H2'	10:AA:1362:U:C6	2.46	0.50
10:AA:1366:G:N2	10:AA:1374:C:N1	2.58	0.50
10:AA:1511:A:O2'	10:AA:1512:G:OP2	2.27	0.50
10:AA:1514:G:H5'	29:AT:90:GLY:HA3	1.93	0.50
10:AA:1577:G:OP2	18:AI:129:LYS:HD3	2.12	0.50
12:AC:10:LYS:O	12:AC:14:PHE:HB2	2.12	0.50
13:AD:126:ARG:NH1	13:AD:144:PRO:HB2	2.26	0.50
16:AG:197:LYS:O	16:AG:200:ARG:HG2	2.11	0.50
17:AH:99:PHE:CD1	17:AH:99:PHE:N	2.78	0.50
18:AI:30:LEU:HG	18:AI:66:ASP:OD1	2.11	0.50
22:AM:119:ILE:CG2	28:AS:124:PHE:HE2	2.22	0.50
29:AT:19:ILE:HD13	29:AT:63:ALA:HB2	1.94	0.50
32:AW:177:LEU:H	32:AW:177:LEU:CD2	2.24	0.50
34:AY:97:VAL:CG1	34:AY:98:ARG:N	2.74	0.50
2:B2:72:ASN:OD1	2:B2:81:THR:HG22	2.11	0.50
2:B2:75:TRP:NE1	2:B2:77:SER:HB2	2.27	0.50
2:B2:124:HIS:CE1	2:B2:152:LYS:HD3	2.46	0.50
3:B3:126:LEU:HB2	3:B3:174:TYR:HE1	1.76	0.50
4:B4:27:SER:HA	20:BK:16:TYR:CE2	2.46	0.50
4:B4:119:LYS:HD3	5:B5:37:LYS:HZ1	1.75	0.50
4:B4:161:TYR:N	4:B4:161:TYR:HD1	2.08	0.50
8:B8:43:VAL:O	22:BM:2:SER:HB3	2.10	0.50
10:BA:125:U:O2'	10:BA:126:A:P	2.69	0.50
10:BA:141:A:N6	10:BA:142:A:C2	2.80	0.50
10:BA:242:U:H2'	10:BA:244:A:OP2	2.11	0.50
10:BA:372:C:O2'	10:BA:373:C:H5'	2.11	0.50
10:BA:425:A:N1	10:BA:426:G:C2	2.79	0.50
10:BA:745:G:H2'	10:BA:746:A:C8	2.45	0.50
10:BA:762:U:C2'	10:BA:763:U:OP2	2.58	0.50
10:BA:782:A:H3'	10:BA:782:A:H8	1.75	0.50
10:BA:963:G:H2'	10:BA:963:G:N3	2.25	0.50
10:BA:1158:U:H4'	10:BA:1181:C:O4'	2.11	0.50
10:BA:1174:A:H2'	10:BA:1175:A:C5'	2.34	0.50
10:BA:1199:G:C2	10:BA:1228:A:N7	2.79	0.50
10:BA:1361:A:H2'	10:BA:1362:U:C6	2.47	0.50
10:BA:1556:G:O2'	10:BA:1557:U:P	2.68	0.50
10:BA:1661:G:H1'	10:BA:1663:A:H62	1.76	0.50
11:BB:95:SER:O	11:BB:96:SER:C	2.53	0.50
13:BD:109:LEU:HD22	13:BD:141:VAL:CG1	2.41	0.50
14:BE:27:TRP:CD1	14:BE:38:LYS:HD3	2.47	0.50
14:BE:32:LYS:O	14:BE:35:ARG:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:51:TYR:N	14:BE:51:TYR:CD1	2.79	0.50
15:BF:78:ARG:NH1	15:BF:100:GLY:CA	2.75	0.50
18:BI:88:SER:CB	18:BI:118:LEU:HB3	2.41	0.50
20:BK:75:MET:HE3	20:BK:121:ARG:HH12	1.75	0.50
20:BK:75:MET:HE3	20:BK:121:ARG:HH22	1.76	0.50
20:BK:103:VAL:HG12	20:BK:142:ARG:CG	2.40	0.50
24:BO:5:GLN:HE22	24:BO:126:ARG:HH11	1.59	0.50
24:BO:80:ASN:C	24:BO:82:CYS:H	2.18	0.50
24:BO:137:LEU:HD12	24:BO:138:PRO:CD	2.39	0.50
28:BS:60:LYS:HZ3	28:BS:64:LYS:HE3	1.75	0.50
31:BV:89:SER:O	31:BV:91:ILE:N	2.45	0.50
2:A2:87:LEU:CD2	2:A2:171:ARG:NH1	2.73	0.50
7:A7:103:GLU:HB2	12:AC:202:LYS:HZ3	1.76	0.50
8:A8:46:GLU:OE1	8:A8:48:LYS:HD2	2.12	0.50
10:AA:19:A:O2'	10:AA:20:G:H5'	2.11	0.50
10:AA:34:U:H5"	10:AA:34:U:H6	1.77	0.50
10:AA:72:G:N3	10:AA:76:A:C2	2.80	0.50
10:AA:91:G:OP2	32:AW:3:ARG:NH1	2.44	0.50
10:AA:148:C:H4'	34:AY:108:VAL:CG2	2.41	0.50
10:AA:265:C:OP1	34:AY:180:GLN:OE1	2.28	0.50
10:AA:1017:C:H2'	10:AA:1018:G:H5'	1.93	0.50
10:AA:1256:C:HO2'	10:AA:1257:U:P	2.33	0.50
10:AA:1272:A:H4'	14:AE:87:VAL:HG13	1.93	0.50
10:AA:1717:C:H3'	10:AA:1718:A:H5'	1.92	0.50
11:AB:4:GLN:HA	11:AB:7:GLN:CG	2.41	0.50
11:AB:29:MET:O	11:AB:33:ILE:HG13	2.10	0.50
12:AC:19:VAL:HG11	23:AN:21:ARG:NE	2.25	0.50
12:AC:125:ILE:O	12:AC:129:VAL:HG23	2.11	0.50
13:AD:83:TYR:HD2	13:AD:147:MET:HG3	1.76	0.50
13:AD:139:ASN:CG	13:AD:140:LEU:N	2.69	0.50
17:AH:68:ARG:HD3	17:AH:68:ARG:O	2.11	0.50
18:AI:43:PRO:C	18:AI:45:ILE:H	2.19	0.50
20:AK:46:ASP:C	20:AK:48:SER:H	2.18	0.50
20:AK:75:MET:HE3	20:AK:121:ARG:HH12	1.75	0.50
20:AK:76:GLN:O	20:AK:80:ASP:HB2	2.11	0.50
25:AP:127:LYS:O	25:AP:128:LYS:C	2.53	0.50
27:AR:114:PHE:N	27:AR:114:PHE:CD1	2.79	0.50
27:AR:146:ASN:ND2	27:AR:150:GLU:HB2	2.09	0.50
27:AR:334:ARG:HG3	27:AR:334:ARG:NH1	2.26	0.50
29:AT:61:THR:HG23	29:AT:107:ALA:HB1	1.94	0.50
30:AU:76:ARG:O	30:AU:79:LEU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:44:LEU:O	32:AW:47:LEU:N	2.45	0.50
32:AW:52:LEU:HB3	32:AW:54:TYR:CD1	2.47	0.50
34:AY:31:LYS:HE2	34:AY:68:MET:HE1	1.93	0.50
4:B4:90:VAL:HG23	4:B4:104:TYR:CG	2.46	0.50
4:B4:119:LYS:HG2	4:B4:119:LYS:O	2.11	0.50
7:B7:21:VAL:HG13	12:BC:75:PHE:CE1	2.46	0.50
8:B8:44:PHE:HB2	22:BM:4:VAL:HG21	1.92	0.50
9:B9:129:TYR:HB2	9:B9:154:UNK:HB2	1.94	0.50
10:BA:53:C:H4'	25:BP:106:LYS:HD2	1.93	0.50
10:BA:141:A:C3'	10:BA:141:A:C8	2.94	0.50
10:BA:290:A:C2'	10:BA:291:A:H5'	2.42	0.50
10:BA:787:A:H1'	17:BH:105:THR:CG2	2.41	0.50
10:BA:934:U:C2'	10:BA:935:G:H5'	2.41	0.50
10:BA:1119:G:O2'	10:BA:1607:A:N1	2.40	0.50
10:BA:1171:G:HO2'	10:BA:1172:G:P	2.33	0.50
10:BA:1256:C:O2'	10:BA:1257:U:OP2	2.27	0.50
10:BA:1299:C:O2'	10:BA:1300:G:C5'	2.56	0.50
10:BA:1582:G:OP2	18:BI:77:THR:HG21	2.11	0.50
12:BC:84:ASP:O	12:BC:84:ASP:OD1	2.29	0.50
14:BE:45:LEU:HG	14:BE:49:PHE:HE2	1.77	0.50
14:BE:182:ALA:HB3	14:BE:185:PRO:HD3	1.92	0.50
22:BM:144:HIS:O	22:BM:145:GLY:C	2.53	0.50
25:BP:34:SER:O	25:BP:35:LYS:C	2.54	0.50
27:BR:102:LEU:HD12	27:BR:112:LYS:CB	2.39	0.50
28:BS:60:LYS:NZ	28:BS:64:LYS:HE3	2.27	0.50
29:BT:110:SER:O	29:BT:114:LEU:HD23	2.11	0.50
34:BY:113:ILE:CD1	34:BY:124:LEU:HD13	2.41	0.50
2:A2:7:SER:HB3	10:AA:327:G:N2	2.26	0.50
2:A2:12:ARG:O	2:A2:14:THR:N	2.45	0.50
2:A2:138:LEU:HD11	2:A2:153:ARG:HH12	1.75	0.50
4:A4:189:GLU:O	4:A4:193:ASN:ND2	2.44	0.50
9:A9:131:ARG:NH1	9:A9:142:LYS:HB3	2.27	0.50
10:AA:58:G:O2'	10:AA:59:C:C6	2.64	0.50
10:AA:83:C:O2'	10:AA:163:A:N6	2.44	0.50
10:AA:125:U:O2'	10:AA:126:A:P	2.70	0.50
10:AA:135:A:O2'	10:AA:136:U:P	2.69	0.50
10:AA:173:A:H5'	10:AA:173:A:C8	2.46	0.50
10:AA:1265:U:H2'	10:AA:1266:G:C8	2.46	0.50
10:AA:1446:A:H2'	10:AA:1447:C:H6	1.76	0.50
10:AA:1505:C:H4'	38:AA:2462:HOH:O	2.10	0.50
10:AA:1604:C:O5'	10:AA:1604:C:H6	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:95:SER:O	11:AB:96:SER:C	2.54	0.50
11:AB:149:PRO:C	11:AB:151:ALA:H	2.17	0.50
12:AC:215:ILE:CD1	31:AV:15:SER:HB2	2.41	0.50
13:AD:80:MET:HG2	13:AD:86:LEU:CD1	2.40	0.50
14:AE:178:GLY:HA2	14:AE:196:ASP:HA	1.94	0.50
20:AK:45:THR:CG2	20:AK:46:ASP:N	2.74	0.50
20:AK:82:VAL:HG13	20:AK:124:MET:HE3	1.92	0.50
22:AM:11:PHE:CZ	22:AM:25:LYS:HD3	2.46	0.50
25:AP:16:LEU:HB3	25:AP:83:TYR:HD2	1.75	0.50
31:AV:47:ARG:C	31:AV:47:ARG:CD	2.83	0.50
7:B7:56:GLU:HA	7:B7:56:GLU:OE1	2.09	0.50
10:BA:11:A:N3	10:BA:1272:A:O2'	2.38	0.50
10:BA:123:A:C3'	10:BA:124:U:H6	2.25	0.50
10:BA:525:U:C5'	25:BP:63:GLY:H	2.24	0.50
10:BA:537:A:N3	10:BA:537:A:OP2	2.43	0.50
10:BA:688:A:H2'	10:BA:689:A:H8	1.76	0.50
10:BA:835:U:C2'	10:BA:836:G:H5'	2.42	0.50
10:BA:1008:A:H4'	10:BA:1009:U:OP2	2.11	0.50
10:BA:1089:U:O2'	10:BA:1090:G:OP1	2.28	0.50
10:BA:1214:A:O2'	10:BA:1216:A:OP1	2.27	0.50
10:BA:1385:U:H2'	10:BA:1386:U:OP1	2.11	0.50
10:BA:1544:G:H8	10:BA:1544:G:O5'	1.94	0.50
10:BA:1572:A:C6	10:BA:1574:C:N3	2.79	0.50
10:BA:1611:C:C2'	10:BA:1612:C:H5'	2.41	0.50
10:BA:1654:U:H3	10:BA:1671:G:H1	1.59	0.50
11:BB:181:LEU:HB3	35:BZ:60:ALA:HB2	1.93	0.50
20:BK:101:GLY:CA	20:BK:133:THR:HG22	2.41	0.50
21:BL:75:LEU:HD11	21:BL:82:ILE:HD11	1.91	0.50
22:BM:25:LYS:C	22:BM:25:LYS:HD2	2.37	0.50
24:BO:26:LYS:O	24:BO:28:LEU:N	2.44	0.50
24:BO:101:ARG:HH12	24:BO:145:ALA:CA	2.24	0.50
24:BO:141:TRP:C	24:BO:142:LYS:HG3	2.36	0.50
26:BQ:17:LEU:HD12	26:BQ:31:VAL:HG13	1.92	0.50
27:BR:264:ASN:C	27:BR:266:LYS:H	2.19	0.50
28:BS:38:LEU:O	28:BS:42:PHE:HD1	1.93	0.50
28:BS:42:PHE:HE2	28:BS:118:GLY:HA2	1.75	0.50
29:BT:15:ALA:CB	29:BT:66:ARG:NE	2.74	0.50
29:BT:24:SER:O	29:BT:27:LYS:N	2.42	0.50
31:BV:82:LEU:O	31:BV:83:ASP:HB3	2.10	0.50
32:BW:67:ASP:C	32:BW:69:GLU:H	2.20	0.50
33:BX:47:PRO:O	33:BX:51:ALA:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BY:57:ASP:C	34:BY:59:ASP:N	2.69	0.50
2:A2:140:ASN:CG	10:AA:182:U:H3	2.20	0.50
3:A3:70:TYR:CE1	3:A3:96:ALA:HB2	2.47	0.50
4:A4:169:ALA:CB	4:A4:210:ILE:HD13	2.41	0.50
6:A6:5:LEU:HB2	17:AH:24:GLN:HE21	1.74	0.50
10:AA:71:U:O2'	10:AA:72:G:P	2.70	0.50
10:AA:1013:G:OP2	24:AO:11:LYS:NZ	2.38	0.50
10:AA:1111:A:H2'	10:AA:1112:A:C8	2.46	0.50
10:AA:1186:G:H5'	10:AA:1216:A:C2	2.46	0.50
10:AA:1367:C:C2'	10:AA:1368:A:H5'	2.42	0.50
10:AA:1370:U:H2'	10:AA:1371:A:C5'	2.22	0.50
10:AA:1401:U:H2'	38:AA:2395:HOH:O	2.12	0.50
10:AA:1454:A:O2'	10:AA:1455:A:H5'	2.11	0.50
10:AA:1579:G:H3'	18:AI:126:MET:HE2	1.91	0.50
10:AA:1584:U:C2'	10:AA:1585:U:H5'	2.42	0.50
12:AC:145:LEU:O	12:AC:146:LYS:HG2	2.12	0.50
16:AG:197:LYS:C	16:AG:200:ARG:HG2	2.36	0.50
21:AL:78:ASN:O	21:AL:79:SER:HB2	2.10	0.50
26:AQ:3:THR:HG21	26:AQ:51:THR:HB	1.93	0.50
31:AV:82:LEU:O	31:AV:83:ASP:HB3	2.11	0.50
32:AW:193:ARG:NE	32:AW:220:PHE:CZ	2.80	0.50
32:AW:201:GLU:CD	32:AW:201:GLU:H	2.19	0.50
35:AZ:40:PHE:HB3	35:AZ:42:ASN:H	1.75	0.50
2:B2:66:LEU:HD23	2:B2:66:LEU:N	2.27	0.50
2:B2:129:LEU:O	2:B2:168:VAL:HG22	2.11	0.50
3:B3:167:LEU:HD11	3:B3:184:PHE:HB2	1.93	0.50
7:B7:38:PRO:CB	7:B7:41:HIS:HD2	2.24	0.50
7:B7:101:SER:OG	12:BC:52:ARG:NH2	2.44	0.50
8:B8:39:VAL:HG13	8:B8:74:LYS:HE2	1.93	0.50
8:B8:65:THR:CG2	16:BG:166:GLU:OE2	2.54	0.50
9:B9:108:LYS:HA	30:BU:65:LYS:CE	2.42	0.50
9:B9:132:HIS:O	9:B9:140:THR:HA	2.10	0.50
10:BA:262:G:OP2	34:BY:198:LYS:HE3	2.11	0.50
10:BA:728:U:H2'	10:BA:729:U:C5'	2.42	0.50
10:BA:976:A:N6	10:BA:982:U:OP2	2.45	0.50
10:BA:1099:G:H2'	10:BA:1100:U:H6	1.77	0.50
10:BA:1313:G:O2'	10:BA:1314:C:H5'	2.12	0.50
10:BA:1466:C:H6	10:BA:1466:C:C5'	2.19	0.50
11:BB:14:LEU:HD11	31:BV:102:THR:CG2	2.37	0.50
11:BB:36:LYS:HG3	11:BB:42:HIS:CE1	2.47	0.50
19:BJ:21:ILE:HD11	19:BJ:91:LEU:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BK:30:VAL:O	20:BK:30:VAL:HG12	2.10	0.50
22:BM:41:ARG:NH2	29:BT:41:THR:O	2.44	0.50
30:BU:46:VAL:HG22	30:BU:59:VAL:HG11	1.93	0.50
30:BU:89:ASN:ND2	30:BU:90:ALA:N	2.53	0.50
35:BZ:40:PHE:HB3	35:BZ:42:ASN:H	1.76	0.50
7:A7:26:LYS:HG2	7:A7:26:LYS:O	2.12	0.50
7:A7:99:PHE:HZ	12:AC:69:HIS:HE2	1.60	0.50
9:A9:84:LYS:HD3	10:AA:1185:C:OP1	2.12	0.50
9:A9:136:LYS:HE3	10:AA:1226:U:OP1	2.12	0.50
10:AA:3:C:H41	13:AD:16:ARG:HB2	1.77	0.50
10:AA:100:A:H2'	38:AA:2115:HOH:O	2.12	0.50
10:AA:501:U:H5'	10:AA:501:U:H6	1.73	0.50
10:AA:562:G:O2'	10:AA:563:C:H5'	2.12	0.50
10:AA:605:U:O2	10:AA:605:U:C2'	2.56	0.50
10:AA:734:U:C2	10:AA:782:A:C2	2.98	0.50
10:AA:773:U:O2'	32:AW:250:ILE:HD11	2.11	0.50
10:AA:794:A:C2	10:AA:836:G:C1'	2.94	0.50
10:AA:1147:U:H3	10:AA:1435:G:H1	1.59	0.50
10:AA:1376:A:OP1	16:AG:55:LYS:HE2	2.11	0.50
10:AA:1674:A:C2	10:AA:1675:A:C8	3.00	0.50
11:AB:31:ARG:CZ	35:AZ:81:ILE:HG13	2.42	0.50
13:AD:45:VAL:CG1	13:AD:101:ILE:HG23	2.41	0.50
17:AH:102:VAL:H	17:AH:113:HIS:CB	2.23	0.50
18:AI:27:GLY:H	18:AI:65:LEU:HA	1.76	0.50
20:AK:45:THR:HG22	20:AK:46:ASP:N	2.24	0.50
20:AK:142:ARG:NH2	20:AK:143:GLU:CD	2.70	0.50
22:AM:60:LEU:O	22:AM:61:LEU:HD23	2.12	0.50
24:AO:68:LEU:C	24:AO:68:LEU:CD2	2.85	0.50
27:AR:96:TRP:HB3	27:AR:120:GLU:HG2	1.93	0.50
27:AR:171:SER:HB3	27:AR:186:TYR:CZ	2.47	0.50
27:AR:289:ALA:N	27:AR:290:PRO:HD3	2.27	0.50
29:AT:116:ILE:HG23	29:AT:136:GLY:HA2	1.93	0.50
34:AY:210:GLU:O	34:AY:214:LYS:HG3	2.12	0.50
2:B2:101:THR:HG22	2:B2:101:THR:O	2.12	0.50
3:B3:142:ARG:HH21	17:BH:51:GLU:HB2	1.75	0.50
4:B4:189:GLU:O	4:B4:193:ASN:ND2	2.45	0.50
8:B8:46:GLU:O	8:B8:50:VAL:HG23	2.12	0.50
10:BA:39:A:C2	10:BA:461:C:C6	3.00	0.50
10:BA:234:G:N1	10:BA:235:A:C2	2.80	0.50
10:BA:458:U:H2'	10:BA:459:G:H5'	1.93	0.50
10:BA:469:A:C6	10:BA:531:A:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:537:A:O2'	10:BA:538:A:C5'	2.60	0.50
10:BA:572:U:O5'	10:BA:572:U:H6	1.95	0.50
10:BA:734:U:C2	10:BA:782:A:C2	2.99	0.50
10:BA:798:G:O6	10:BA:835:U:O4	2.30	0.50
10:BA:806:U:H2'	10:BA:807:C:C6	2.47	0.50
10:BA:840:A:H5'	17:BH:57:ARG:HG3	1.93	0.50
10:BA:882:G:O6	10:BA:883:A:C2	2.65	0.50
10:BA:894:U:OP1	10:BA:894:U:O4'	2.30	0.50
10:BA:1100:U:H2'	10:BA:1101:C:H5'	1.94	0.50
10:BA:1176:A:C5'	10:BA:1177:C:OP2	2.53	0.50
10:BA:1204:U:H2'	10:BA:1205:G:O4'	2.12	0.50
10:BA:1453:C:H1'	18:BI:79:GLN:NE2	2.26	0.50
10:BA:1513:G:H2'	10:BA:1514:G:C1'	2.42	0.50
10:BA:1715:A:C8	10:BA:1715:A:C3'	2.94	0.50
10:BA:1717:C:H2'	10:BA:1718:A:C5'	2.41	0.50
12:BC:4:THR:O	12:BC:5:THR:C	2.55	0.50
12:BC:9:ASN:C	12:BC:11:LYS:N	2.65	0.50
13:BD:71:PHE:CE2	32:BW:250:ILE:CG2	2.93	0.50
14:BE:82:LEU:HD12	14:BE:212:LEU:HD13	1.93	0.50
16:BG:13:LEU:C	16:BG:15:GLY:N	2.68	0.50
20:BK:123:GLY:O	20:BK:124:MET:O	2.29	0.50
27:BR:13:LYS:NZ	27:BR:295:GLU:HB3	2.27	0.50
27:BR:326:ALA:CB	27:BR:328:PHE:HE1	2.25	0.50
30:BU:29:LEU:HD12	30:BU:55:TYR:CE2	2.47	0.50
30:BU:44:VAL:HG21	30:BU:63:CYS:SG	2.52	0.50
32:BW:57:ASN:ND2	32:BW:59:ARG:HB3	2.23	0.50
32:BW:196:ILE:O	32:BW:212:VAL:HG12	2.11	0.50
2:A2:130:GLY:O	2:A2:131:LEU:C	2.55	0.50
2:A2:152:LYS:O	2:A2:155:LYS:HB3	2.12	0.50
4:A4:53:SER:HG	4:A4:59:ALA:HB2	1.77	0.50
5:A5:38:ARG:NH2	10:AA:1751:U:H5	2.09	0.50
5:A5:53:ILE:CG2	20:AK:116:LEU:HD21	2.41	0.50
9:A9:124:PHE:N	9:A9:124:PHE:HD1	2.08	0.50
10:AA:85:G:C4	10:AA:444:A:C2	3.00	0.50
10:AA:100:A:O2'	10:AA:101:A:OP2	2.28	0.50
10:AA:155:U:H5"	34:AY:83:CYS:HA	1.94	0.50
10:AA:392:A:H3'	10:AA:393:C:C4'	2.42	0.50
10:AA:409:G:H3'	10:AA:409:G:N3	2.27	0.50
10:AA:639:C:H2'	10:AA:640:A:H8	1.77	0.50
10:AA:670:G:H5'	10:AA:670:G:C8	2.46	0.50
10:AA:963:G:H2'	10:AA:963:G:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1177:C:C5	10:AA:1178:U:C2	2.99	0.50
10:AA:1272:A:O3'	14:AE:87:VAL:CG1	2.60	0.50
10:AA:1326:C:H6	10:AA:1326:C:H5'	1.76	0.50
10:AA:1409:G:C6	10:AA:1410:C:C4	3.00	0.50
10:AA:1540:G:C2'	10:AA:1541:A:OP2	2.60	0.50
12:AC:9:ASN:HB2	12:AC:12:LYS:HB2	1.94	0.50
13:AD:126:ARG:HA	13:AD:129:ILE:CD1	2.41	0.50
14:AE:69:LYS:HE2	14:AE:76:LYS:NZ	2.26	0.50
14:AE:206:ARG:O	14:AE:208:ARG:N	2.42	0.50
15:AF:21:ILE:HG12	15:AF:35:VAL:HG22	1.94	0.50
16:AG:22:VAL:HG12	16:AG:23:LYS:H	1.76	0.50
18:AI:17:ASN:H	18:AI:125:ARG:HH12	1.60	0.50
18:AI:26:PRO:CA	18:AI:65:LEU:HD22	2.27	0.50
18:AI:88:SER:HB3	18:AI:111:LEU:HD13	1.93	0.50
22:AM:134:ARG:C	22:AM:136:GLN:H	2.19	0.50
25:AP:141:ASP:O	25:AP:145:ASN:ND2	2.45	0.50
27:AR:13:LYS:NZ	27:AR:295:GLU:HB3	2.27	0.50
27:AR:169:ARG:O	27:AR:187:PHE:HB2	2.12	0.50
32:AW:205:GLY:O	32:AW:206:SER:HB2	2.11	0.50
3:B3:152:ARG:HA	3:B3:183:THR:O	2.12	0.50
4:B4:31:TRP:CE3	20:BK:18:PRO:HD3	2.47	0.50
5:B5:46:ASP:CB	5:B5:47:PRO:HD2	2.28	0.50
10:BA:45:A:O2'	10:BA:46:A:P	2.70	0.50
10:BA:1064:A:H2'	10:BA:1064:A:N3	2.25	0.50
10:BA:1151:G:H2'	10:BA:1152:C:C6	2.46	0.50
10:BA:1171:G:H1'	19:BJ:66:ARG:CZ	2.42	0.50
11:BB:2:ALA:HB1	35:BZ:97:GLU:CB	2.42	0.50
14:BE:167:ARG:CB	14:BE:202:GLN:HB2	2.42	0.50
18:BI:44:GLN:HG3	18:BI:45:ILE:N	2.25	0.50
19:BJ:42:ALA:O	19:BJ:48:VAL:HG11	2.12	0.50
22:BM:134:ARG:C	22:BM:136:GLN:H	2.20	0.50
24:BO:136:LYS:O	24:BO:137:LEU:HB2	2.12	0.50
25:BP:147:VAL:O	25:BP:148:ALA:CB	2.59	0.50
26:BQ:21:LYS:C	26:BQ:23:LEU:N	2.69	0.50
27:BR:140:ARG:O	27:BR:160:ASN:HB2	2.11	0.50
27:BR:235:LYS:HG3	27:BR:256:SER:C	2.36	0.50
29:BT:56:TRP:C	29:BT:56:TRP:CD1	2.89	0.50
30:BU:113:THR:HG22	30:BU:115:ASP:H	1.76	0.50
32:BW:106:ASP:O	32:BW:192:GLY:HA3	2.12	0.50
32:BW:205:GLY:O	32:BW:206:SER:HB2	2.12	0.50
32:BW:212:VAL:HG23	32:BW:220:PHE:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:162:ASN:O	2:A2:166:GLN:HG2	2.12	0.50
3:A3:84:LEU:HD12	3:A3:94:PHE:HZ	1.76	0.50
4:A4:69:GLU:HB2	4:A4:86:LYS:HE2	1.94	0.50
10:AA:116:U:H3	32:AW:33:GLN:NE2	2.10	0.50
10:AA:494:A:H2'	10:AA:495:C:H4'	1.93	0.50
10:AA:533:G:N7	33:AX:28:ARG:HD2	2.27	0.50
10:AA:562:G:P	21:AL:69:LYS:HD2	2.51	0.50
10:AA:1158:U:OP1	10:AA:1427:C:H1'	2.12	0.50
10:AA:1434:C:O2	10:AA:1434:C:H2'	2.11	0.50
10:AA:1701:C:H2'	10:AA:1702:A:O4'	2.10	0.50
11:AB:32:TYR:HD2	11:AB:158:PRO:HG3	1.76	0.50
13:AD:45:VAL:HG11	13:AD:101:ILE:HG23	1.93	0.50
13:AD:171:ARG:HB3	13:AD:175:LYS:HZ2	1.74	0.50
14:AE:81:VAL:HG11	14:AE:84:ILE:HD11	1.93	0.50
21:AL:73:VAL:HG12	21:AL:74:LEU:N	2.26	0.50
22:AM:25:LYS:C	22:AM:25:LYS:HD2	2.37	0.50
22:AM:81:ILE:H	29:AT:40:TRP:HZ2	1.58	0.50
26:AQ:61:SER:OG	26:AQ:62:ASN:N	2.42	0.50
26:AQ:66:ARG:NH1	26:AQ:66:ARG:CG	2.70	0.50
28:AS:91:ILE:CG2	28:AS:92:PRO:HD2	2.40	0.50
29:AT:29:ALA:O	29:AT:30:ASN:C	2.55	0.50
4:B4:26:LEU:HD12	20:BK:84:ARG:HH22	1.77	0.50
5:B5:90:CYS:HA	10:BA:1600:U:H5'	1.94	0.50
6:B6:18:LYS:NZ	10:BA:936:U:C5'	2.72	0.50
7:B7:12:ILE:HG22	7:B7:13:TYR:N	2.26	0.50
8:B8:38:LYS:HZ1	10:BA:1507:U:H3'	1.76	0.50
10:BA:327:G:O2'	10:BA:328:G:H5"	2.10	0.50
10:BA:341:G:H4'	10:BA:342:U:OP2	2.10	0.50
10:BA:359:U:H3	10:BA:364:G:H1	1.59	0.50
10:BA:787:A:C6	10:BA:788:U:C4	3.00	0.50
10:BA:1246:C:OP2	10:BA:1399:G:OP2	2.30	0.50
10:BA:1326:C:H5'	10:BA:1326:C:C6	2.47	0.50
12:BC:109:ASN:ND2	12:BC:178:VAL:HG13	2.27	0.50
13:BD:109:LEU:HD22	13:BD:141:VAL:HG12	1.93	0.50
13:BD:135:LYS:HG2	13:BD:140:LEU:HA	1.93	0.50
14:BE:50:LYS:HE3	35:BZ:28:LEU:O	2.12	0.50
18:BI:15:LYS:O	18:BI:16:LYS:C	2.55	0.50
22:BM:54:PRO:HG2	22:BM:55:ASN:N	2.23	0.50
27:BR:211:ALA:C	27:BR:212:HIS:CD2	2.89	0.50
31:BV:58:MET:CE	31:BV:61:ILE:HD12	2.42	0.50
32:BW:108:LYS:HG3	32:BW:110:ARG:NH2	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:127:LYS:HZ3	32:BW:186:GLN:NE2	2.08	0.50
34:BY:23:LYS:CE	34:BY:41:LEU:HA	2.41	0.50
2:A2:105:VAL:HB	2:A2:108:SER:OG	2.11	0.50
2:A2:115:THR:CB	2:A2:116:PRO:HD3	2.39	0.50
3:A3:127:LEU:HG	3:A3:174:TYR:CZ	2.47	0.50
4:A4:217:THR:HG22	4:A4:218:ILE:N	2.27	0.50
5:A5:62:GLU:O	5:A5:63:LYS:HB2	2.12	0.50
7:A7:24:LEU:HD12	7:A7:25:LYS:H	1.77	0.50
9:A9:103:LEU:HD11	30:AU:58:LEU:HD23	1.94	0.50
9:A9:164:UNK:C	9:A9:167:UNK:HG3	2.42	0.50
10:AA:124:U:O2	10:AA:124:U:C2'	2.60	0.50
10:AA:683:A:C2'	10:AA:684:A:H5'	2.42	0.50
10:AA:688:A:H2'	10:AA:689:A:C8	2.47	0.50
10:AA:783:U:H2'	10:AA:784:G:H8	1.77	0.50
10:AA:798:G:O6	10:AA:835:U:O4	2.29	0.50
10:AA:879:G:C6	10:AA:880:G:N1	2.80	0.50
10:AA:937:U:H5"	10:AA:938:U:OP2	2.11	0.50
10:AA:942:U:HO2'	10:AA:943:U:H5"	1.77	0.50
10:AA:1299:C:O2'	10:AA:1300:G:C5'	2.56	0.50
10:AA:1718:A:C3'	10:AA:1719:A:H5'	2.41	0.50
11:AB:2:ALA:HB1	35:AZ:97:GLU:CG	2.42	0.50
11:AB:181:LEU:HB3	35:AZ:60:ALA:HB2	1.94	0.50
13:AD:6:ILE:HG22	13:AD:7:ASN:H	1.77	0.50
14:AE:185:PRO:CG	14:AE:211:PHE:CE2	2.95	0.50
18:AI:15:LYS:HD3	18:AI:16:LYS:HG2	1.93	0.50
20:AK:53:LEU:HD13	20:AK:88:LEU:HD13	1.93	0.50
22:AM:100:MET:HE2	22:AM:100:MET:HA	1.94	0.50
24:AO:26:LYS:O	24:AO:28:LEU:N	2.45	0.50
27:AR:211:ALA:C	27:AR:212:HIS:CD2	2.89	0.50
30:AU:73:VAL:HG13	30:AU:74:PRO:HD2	1.91	0.50
31:AV:98:ILE:HG23	31:AV:102:THR:CB	2.42	0.50
35:AZ:47:VAL:HG12	35:AZ:74:ARG:CD	2.40	0.50
2:B2:141:LYS:HZ1	2:B2:143:LYS:HE2	1.77	0.50
3:B3:13:THR:O	3:B3:14:LYS:C	2.54	0.50
3:B3:33:LEU:O	3:B3:37:LEU:HB2	2.11	0.50
5:B5:54:GLN:O	5:B5:57:LEU:HB3	2.12	0.50
7:B7:100:ILE:CD1	12:BC:62:ILE:HD11	2.42	0.50
8:B8:39:VAL:CG1	8:B8:74:LYS:HE2	2.42	0.50
8:B8:60:VAL:HG13	8:B8:72:LYS:HG3	1.94	0.50
8:B8:65:THR:O	8:B8:66:VAL:C	2.54	0.50
8:B8:99:ASN:O	8:B8:101:ASN:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:97:U:C2'	10:BA:98:U:H5'	2.37	0.50
10:BA:930:A:O2'	10:BA:931:A:H5'	2.12	0.50
10:BA:1009:U:C4'	10:BA:1010:A:OP2	2.57	0.50
10:BA:1109:U:OP1	21:BL:61:LYS:HE3	2.12	0.50
10:BA:1293:A:C4	11:BB:101:PRO:HB2	2.46	0.50
10:BA:1367:C:C2'	10:BA:1368:A:H5'	2.42	0.50
13:BD:139:ASN:CG	13:BD:140:LEU:N	2.69	0.50
14:BE:185:PRO:CG	14:BE:211:PHE:CE2	2.95	0.50
17:BH:68:ARG:O	17:BH:68:ARG:HD3	2.12	0.50
22:BM:18:LEU:HB2	22:BM:21:ASN:HD22	1.75	0.50
25:BP:55:VAL:CG2	25:BP:58:PHE:HE1	2.25	0.50
27:BR:206:ARG:HG2	27:BR:207:TYR:CD1	2.46	0.50
31:BV:26:ASN:HD21	31:BV:62:GLN:NE2	2.09	0.50
32:BW:42:LEU:HB2	32:BW:111:PHE:CE2	2.47	0.50
32:BW:163:LYS:HB3	32:BW:172:GLU:O	2.12	0.50
33:BX:65:GLY:HA2	33:BX:70:MET:HE1	1.93	0.50
34:BY:131:ARG:NH2	34:BY:133:LEU:O	2.45	0.50
34:BY:167:THR:C	34:BY:169:LYS:N	2.69	0.50
34:BY:176:CYS:SG	34:BY:177:PRO:HD2	2.52	0.50
2:A2:192:GLU:HA	2:A2:196:LEU:HD22	1.94	0.49
4:A4:139:ARG:HH12	10:AA:862:A:H5'	1.76	0.49
10:AA:271:U:C4'	10:AA:272:U:OP1	2.59	0.49
10:AA:326:U:O2'	26:AQ:128:ARG:HD2	2.11	0.49
10:AA:348:G:O2'	10:AA:349:U:H5'	2.12	0.49
10:AA:372:C:O2'	10:AA:373:C:H5'	2.11	0.49
10:AA:533:G:H8	33:AX:28:ARG:NH1	2.10	0.49
10:AA:688:A:H2'	10:AA:689:A:H8	1.77	0.49
10:AA:1014:A:C2	10:AA:1015:C:N1	2.80	0.49
10:AA:1042:G:H2'	10:AA:1043:U:O4'	2.12	0.49
10:AA:1373:G:OP1	31:AV:4:VAL:HA	2.12	0.49
11:AB:5:ARG:HH22	11:AB:12:ARG:NH2	2.07	0.49
16:AG:14:PHE:CD2	16:AG:89:LYS:HG3	2.46	0.49
16:AG:125:THR:HB	16:AG:130:ARG:CZ	2.42	0.49
16:AG:158:PHE:C	16:AG:160:SER:H	2.20	0.49
18:AI:12:PHE:C	18:AI:12:PHE:CD1	2.89	0.49
19:AJ:56:MET:HE3	19:AJ:88:ILE:HD12	1.93	0.49
24:AO:101:ARG:HH12	24:AO:145:ALA:CA	2.23	0.49
26:AQ:12:GLN:HG3	26:AQ:16:PHE:HE1	1.76	0.49
26:AQ:52:TYR:CD1	26:AQ:52:TYR:O	2.65	0.49
27:AR:74:GLY:O	27:AR:75:HIS:O	2.30	0.49
28:AS:121:LEU:O	28:AS:121:LEU:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:8:LYS:HG2	1:B1:56:GLU:CD	2.37	0.49
4:B4:34:PHE:CE1	4:B4:89:LEU:HD12	2.45	0.49
4:B4:161:TYR:N	4:B4:161:TYR:CD1	2.80	0.49
5:B5:89:ARG:NH1	5:B5:93:ASP:O	2.45	0.49
10:BA:135:A:C2'	10:BA:136:U:OP2	2.60	0.49
10:BA:148:C:C5'	34:BY:108:VAL:HG21	2.41	0.49
10:BA:422:G:O2'	10:BA:423:G:H5'	2.11	0.49
10:BA:460:A:C6	10:BA:589:G:N7	2.80	0.49
10:BA:616:A:H4'	10:BA:617:A:C5'	2.31	0.49
10:BA:624:A:C8	10:BA:948:A:N6	2.80	0.49
10:BA:847:A:H4'	24:BO:92:PHE:CE2	2.47	0.49
10:BA:1305:C:O4'	12:BC:165:GLN:HG3	2.12	0.49
10:BA:1331:A:C2	10:BA:1334:U:H5	2.28	0.49
10:BA:1508:G:C2	10:BA:1510:U:N3	2.80	0.49
12:BC:184:ILE:CG2	12:BC:185:MET:N	2.75	0.49
15:BF:21:ILE:HG12	15:BF:35:VAL:HG22	1.94	0.49
16:BG:191:GLU:O	16:BG:195:VAL:HG23	2.12	0.49
17:BH:89:TRP:CD2	17:BH:125:ILE:HD11	2.46	0.49
20:BK:121:ARG:C	20:BK:123:GLY:H	2.19	0.49
24:BO:141:TRP:O	24:BO:142:LYS:HG3	2.12	0.49
24:BO:143:TYR:HA	24:BO:147:THR:CB	2.42	0.49
25:BP:16:LEU:HB3	25:BP:83:TYR:CD2	2.46	0.49
26:BQ:11:LYS:HB3	26:BQ:53:VAL:HB	1.94	0.49
27:BR:92:ILE:HG22	27:BR:93:SER:N	2.27	0.49
27:BR:181:GLN:HG3	27:BR:183:PHE:CZ	2.47	0.49
27:BR:241:ASP:O	27:BR:245:LEU:CD2	2.59	0.49
27:BR:307:GLY:O	27:BR:308:LYS:C	2.55	0.49
31:BV:71:LEU:O	31:BV:72:LYS:C	2.54	0.49
32:BW:194:VAL:CG1	32:BW:230:LEU:HD23	2.42	0.49
3:A3:130:LEU:HD23	3:A3:130:LEU:N	2.27	0.49
8:A8:65:THR:O	8:A8:66:VAL:C	2.55	0.49
10:AA:16:G:H2'	10:AA:17:C:H6	1.70	0.49
10:AA:93:C:H2'	10:AA:94:U:O4'	2.11	0.49
10:AA:100:A:O2'	10:AA:101:A:P	2.71	0.49
10:AA:132:U:H1'	34:AY:149:LYS:HZ1	1.77	0.49
10:AA:318:U:H4'	26:AQ:11:LYS:HZ2	1.75	0.49
10:AA:971:A:H62	10:AA:989:G:N2	2.07	0.49
10:AA:1140:U:H5'	10:AA:1141:G:OP2	2.12	0.49
10:AA:1199:G:C2	10:AA:1228:A:N7	2.80	0.49
10:AA:1252:C:H2'	10:AA:1253:G:C8	2.47	0.49
10:AA:1418:C:O2'	10:AA:1419:G:OP1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1486:U:H5”	10:AA:1487:A:O5’	2.11	0.49
10:AA:1715:A:O2’	10:AA:1736:C:H5”	2.12	0.49
11:AB:139:PRO:HD3	35:AZ:47:VAL:HG21	1.93	0.49
11:AB:172:TRP:CD2	11:AB:195:VAL:HG22	2.47	0.49
15:AF:44:TYR:O	15:AF:47:ILE:N	2.45	0.49
16:AG:150:ILE:O	16:AG:151:LYS:C	2.55	0.49
24:AO:134:ASN:O	24:AO:135:GLN:C	2.54	0.49
26:AQ:10:GLN:OE1	26:AQ:10:GLN:CA	2.59	0.49
27:AR:307:GLY:O	27:AR:308:LYS:C	2.55	0.49
28:AS:66:ARG:HH12	28:AS:93:GLU:HB3	1.77	0.49
29:AT:110:SER:O	29:AT:114:LEU:HD23	2.12	0.49
30:AU:115:ASP:O	30:AU:119:ILE:HG13	2.12	0.49
32:AW:193:ARG:NE	32:AW:247:ARG:HG2	2.26	0.49
32:AW:212:VAL:HG23	32:AW:220:PHE:HB3	1.94	0.49
32:AW:249:THR:HB	32:AW:252:GLU:H	1.77	0.49
34:AY:12:ALA:CB	34:AY:124:LEU:HA	2.42	0.49
2:B2:66:LEU:C	2:B2:67:ARG:HG2	2.37	0.49
3:B3:102:SER:OG	3:B3:105:VAL:HB	2.12	0.49
4:B4:35:ARG:HE	4:B4:44:SER:CB	2.18	0.49
6:B6:19:PHE:CE1	24:BO:17:ALA:HB2	2.47	0.49
9:B9:147:UNK:O	9:B9:151:UNK:HG3	2.11	0.49
10:BA:55:U:O2’	10:BA:56:G:OP2	2.28	0.49
10:BA:123:A:H3’	10:BA:124:U:H6	1.76	0.49
10:BA:303:A:C2	10:BA:305:C:N3	2.80	0.49
10:BA:328:G:H5’	10:BA:329:A:N7	2.26	0.49
10:BA:479:G:N2	10:BA:493:U:C2	2.80	0.49
10:BA:642:G:C6	10:BA:643:U:C4	3.01	0.49
10:BA:752:C:O2’	10:BA:753:C:H5’	2.12	0.49
10:BA:1200:G:O6	30:BU:76:ARG:CD	2.57	0.49
10:BA:1476:A:C2’	10:BA:1477:A:H5’	2.41	0.49
11:BB:11:LYS:NZ	31:BV:115:PRO:HB2	2.27	0.49
11:BB:51:GLN:NE2	35:BZ:95:ILE:HB	2.26	0.49
12:BC:45:THR:CG2	12:BC:46:PRO:HD2	2.42	0.49
12:BC:125:ILE:O	12:BC:129:VAL:HG23	2.13	0.49
14:BE:46:ASP:OD2	35:BZ:26:ALA:HB1	2.11	0.49
14:BE:144:TYR:HE1	35:BZ:24:ILE:HD12	1.76	0.49
14:BE:232:GLY:C	35:BZ:13:MET:HB2	2.37	0.49
21:BL:42:PHE:CZ	21:BL:103:VAL:HG23	2.47	0.49
29:BT:29:ALA:CB	29:BT:31:LYS:HE3	2.43	0.49
29:BT:69:TYR:HA	29:BT:132:ILE:HG21	1.94	0.49
32:BW:44:LEU:O	32:BW:47:LEU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BY:12:ALA:CB	34:BY:124:LEU:HA	2.41	0.49
35:BZ:78:GLU:O	35:BZ:79:ALA:C	2.55	0.49
1:A1:8:LYS:HG2	1:A1:56:GLU:CD	2.37	0.49
1:A1:61:GLU:HG3	20:AK:121:ARG:HH11	1.77	0.49
4:A4:47:LYS:NZ	20:AK:20:ASN:ND2	2.60	0.49
9:A9:112:GLN:HA	9:A9:112:GLN:OE1	2.12	0.49
10:AA:9:U:O2	10:AA:11:A:H5"	2.13	0.49
10:AA:100:A:C2	10:AA:299:C:C4	3.00	0.49
10:AA:451:G:O2'	10:AA:452:A:OP2	2.26	0.49
10:AA:504:A:OP1	13:AD:175:LYS:HE3	2.12	0.49
10:AA:550:G:OP1	33:AX:59:SER:HB3	2.12	0.49
10:AA:717:G:H3'	10:AA:718:A:C8	2.47	0.49
10:AA:734:U:C2	10:AA:782:A:H2	2.31	0.49
10:AA:1163:U:H2'	10:AA:1164:C:C6	2.47	0.49
10:AA:1204:U:H2'	10:AA:1205:G:O4'	2.13	0.49
14:AE:220:ALA:C	14:AE:222:THR:N	2.70	0.49
16:AG:158:PHE:O	16:AG:160:SER:N	2.36	0.49
18:AI:41:ILE:HD11	18:AI:50:ILE:HD12	1.92	0.49
22:AM:97:ASN:C	22:AM:98:TYR:CD1	2.90	0.49
26:AQ:9:TYR:O	26:AQ:10:GLN:HB2	2.12	0.49
27:AR:96:TRP:HA	27:AR:120:GLU:HB3	1.93	0.49
29:AT:83:PHE:CZ	29:AT:85:SER:HB2	2.46	0.49
31:AV:55:THR:O	31:AV:58:MET:HB2	2.11	0.49
31:AV:88:LYS:O	31:AV:89:SER:C	2.53	0.49
32:AW:124:LYS:NZ	32:AW:145:ASP:CG	2.70	0.49
2:B2:114:SER:HA	2:B2:172:ILE:CD1	2.42	0.49
5:B5:5:ARG:HB2	5:B5:8:ALA:HA	1.94	0.49
5:B5:62:GLU:O	5:B5:63:LYS:HB2	2.11	0.49
10:BA:2:A:C2	10:BA:361:A:H1'	2.47	0.49
10:BA:112:U:O2'	10:BA:324:A:H1'	2.12	0.49
10:BA:188:G:C4	10:BA:190:G:H1'	2.47	0.49
10:BA:243:G:O4'	32:BW:204:GLN:HB2	2.12	0.49
10:BA:306:A:N9	10:BA:344:A:N6	2.61	0.49
10:BA:1027:U:O2'	10:BA:1028:G:H5"	2.12	0.49
10:BA:1069:U:O2'	10:BA:1070:U:P	2.70	0.49
10:BA:1147:U:H3	10:BA:1435:G:H1	1.60	0.49
10:BA:1359:C:O2	10:BA:1359:C:C2'	2.59	0.49
10:BA:1406:G:O2'	10:BA:1407:A:OP2	2.26	0.49
10:BA:1531:G:C8	22:BM:134:ARG:HB2	2.48	0.49
11:BB:70:MET:O	11:BB:118:LEU:HD12	2.11	0.49
11:BB:160:ASN:HD21	11:BB:162:ARG:CG	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:132:ARG:C	13:BD:134:ILE:N	2.71	0.49
17:BH:106:THR:HG23	17:BH:122:GLY:CA	2.42	0.49
18:BI:43:PRO:C	18:BI:45:ILE:H	2.19	0.49
19:BJ:22:THR:O	19:BJ:23:LEU:HD23	2.12	0.49
24:BO:8:GLY:O	24:BO:9:LYS:CB	2.61	0.49
24:BO:134:ASN:O	24:BO:135:GLN:C	2.54	0.49
25:BP:132:TRP:O	25:BP:136:GLN:HG2	2.12	0.49
29:BT:44:SER:HA	29:BT:100:HIS:ND1	2.27	0.49
30:BU:20:ASN:HD21	30:BU:27:LYS:HZ1	1.60	0.49
34:BY:215:PHE:CZ	34:BY:219:TRP:HB2	2.47	0.49
35:BZ:2:ASN:O	35:BZ:3:SER:C	2.55	0.49
3:A3:102:SER:HB2	3:A3:105:VAL:HG23	1.93	0.49
3:A3:144:ARG:NE	3:A3:144:ARG:HA	2.28	0.49
4:A4:123:LEU:HD12	4:A4:124:ILE:H	1.77	0.49
4:A4:150:SER:O	4:A4:151:ALA:HB3	2.12	0.49
7:A7:38:PRO:CG	7:A7:41:HIS:HD2	2.25	0.49
8:A8:29:LYS:HZ3	10:AA:1509:U:C5'	2.25	0.49
10:AA:136:U:C2	10:AA:263:A:N6	2.81	0.49
10:AA:246:U:H5"	10:AA:247:C:OP2	2.12	0.49
10:AA:477:G:N2	10:AA:496:G:H1'	2.28	0.49
10:AA:680:U:H2'	10:AA:681:G:C8	2.47	0.49
10:AA:782:A:H3'	10:AA:782:A:C8	2.47	0.49
10:AA:849:A:H2'	10:AA:850:G:C8	2.47	0.49
10:AA:1069:U:C3'	14:AE:160:THR:HG21	2.35	0.49
10:AA:1080:G:O5'	10:AA:1080:G:C8	2.57	0.49
10:AA:1360:U:O2'	10:AA:1361:A:H8	1.95	0.49
11:AB:96:SER:HB3	11:AB:111:LYS:NZ	2.28	0.49
11:AB:160:ASN:HD21	11:AB:162:ARG:CG	2.25	0.49
12:AC:5:THR:HG22	12:AC:6:ARG:N	2.27	0.49
12:AC:146:LYS:NZ	12:AC:153:MET:CE	2.76	0.49
13:AD:106:GLU:CA	13:AD:111:THR:HG21	2.35	0.49
14:AE:45:LEU:HG	14:AE:49:PHE:HE2	1.77	0.49
17:AH:6:ILE:HA	17:AH:9:GLU:HB2	1.94	0.49
17:AH:89:TRP:CE3	17:AH:93:ILE:HD11	2.47	0.49
18:AI:44:GLN:HG3	18:AI:45:ILE:N	2.26	0.49
19:AJ:95:VAL:N	19:AJ:96:PRO:CD	2.76	0.49
22:AM:44:TYR:CE2	29:AT:49:LEU:HD21	2.47	0.49
24:AO:98:LEU:CD1	24:AO:148:ALA:HB1	2.42	0.49
27:AR:102:LEU:HD12	27:AR:112:LYS:CB	2.37	0.49
27:AR:235:LYS:HG3	27:AR:256:SER:C	2.37	0.49
30:AU:20:ASN:HD21	30:AU:27:LYS:NZ	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:8:HIS:O	32:AW:30:ARG:HD2	2.13	0.49
35:AZ:78:GLU:O	35:AZ:79:ALA:C	2.55	0.49
2:B2:10:LYS:NZ	10:BA:328:G:O2'	2.41	0.49
2:B2:126:GLY:O	2:B2:136:THR:HG23	2.13	0.49
5:B5:67:PRO:HD3	20:BK:129:ILE:CD1	2.42	0.49
8:B8:46:GLU:OE1	8:B8:48:LYS:HD2	2.13	0.49
9:B9:114:LYS:HG2	9:B9:115:GLY:N	2.28	0.49
9:B9:155:UNK:O	9:B9:158:UNK:CG	2.42	0.49
10:BA:223:C:H2'	10:BA:224:G:O4'	2.13	0.49
10:BA:371:U:O2'	10:BA:372:C:P	2.71	0.49
10:BA:577:C:H2'	10:BA:577:C:O2	2.13	0.49
10:BA:760:G:N2	10:BA:766:G:N1	2.55	0.49
10:BA:761:U:O2'	10:BA:762:U:H5"	2.12	0.49
10:BA:761:U:HO2'	10:BA:762:U:P	2.33	0.49
10:BA:797:A:N6	10:BA:836:G:O6	2.45	0.49
10:BA:806:U:H2'	10:BA:807:C:H6	1.77	0.49
10:BA:992:G:H2'	10:BA:993:U:O4'	2.12	0.49
10:BA:1225:U:OP2	30:BU:30:HIS:CE1	2.65	0.49
10:BA:1585:U:H5	16:BG:52:GLN:NE2	2.09	0.49
10:BA:1674:A:C2	10:BA:1675:A:C8	3.00	0.49
10:BA:1687:C:H2'	10:BA:1688:C:H6	1.77	0.49
11:BB:4:GLN:HA	11:BB:7:GLN:CG	2.42	0.49
13:BD:38:ASN:HD22	13:BD:40:ARG:CD	2.25	0.49
16:BG:19:TYR:CE2	16:BG:41:GLN:HA	2.47	0.49
16:BG:99:THR:HG21	16:BG:101:ARG:HE	1.77	0.49
21:BL:69:LYS:NZ	21:BL:92:LEU:HB3	2.28	0.49
25:BP:119:ALA:O	25:BP:123:LEU:HD13	2.12	0.49
29:BT:29:ALA:O	29:BT:30:ASN:C	2.55	0.49
32:BW:57:ASN:O	32:BW:60:ASP:HB2	2.12	0.49
34:BY:149:LYS:O	34:BY:151:ASP:N	2.44	0.49
1:A1:55:LEU:HD11	16:AG:136:VAL:O	2.13	0.49
7:A7:30:GLY:O	7:A7:39:ASN:ND2	2.46	0.49
10:AA:4:C:O2'	13:AD:17:ARG:NH2	2.45	0.49
10:AA:89:A:N7	10:AA:389:G:C5	2.80	0.49
10:AA:313:G:C6	10:AA:328:G:C2	3.00	0.49
10:AA:479:G:N2	10:AA:493:U:C2	2.80	0.49
10:AA:932:G:H5'	24:AO:7:LYS:HZ1	1.75	0.49
10:AA:1119:G:N3	10:AA:1605:A:C2	2.81	0.49
10:AA:1678:U:H2'	10:AA:1679:A:C8	2.48	0.49
11:AB:134:SER:HB3	11:AB:152:TYR:CD2	2.47	0.49
11:AB:168:SER:HB2	11:AB:198:PHE:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AE:233:LYS:CD	14:AE:234:PRO:HD2	2.42	0.49
17:AH:103:VAL:C	17:AH:104:LEU:HD23	2.37	0.49
18:AI:88:SER:CB	18:AI:118:LEU:HB3	2.42	0.49
20:AK:123:GLY:O	20:AK:124:MET:O	2.29	0.49
22:AM:130:GLY:O	22:AM:131:LEU:HD23	2.12	0.49
25:AP:83:TYR:N	25:AP:83:TYR:HD1	2.10	0.49
27:AR:274:THR:HG23	27:AR:276:GLN:H	1.78	0.49
29:AT:29:ALA:CB	29:AT:31:LYS:HE3	2.42	0.49
31:AV:103:LYS:CE	31:AV:118:VAL:HG21	2.42	0.49
34:AY:9:LEU:HD23	34:AY:9:LEU:N	2.22	0.49
35:AZ:17:ILE:HG22	35:AZ:21:LYS:HA	1.94	0.49
1:B1:46:LYS:HZ1	16:BG:140:ARG:HH21	1.60	0.49
2:B2:33:ILE:HG23	10:BA:321:U:O2'	2.13	0.49
2:B2:108:SER:O	2:B2:176:ILE:HG13	2.12	0.49
6:B6:62:CYS:HB3	6:B6:69:VAL:CG1	2.41	0.49
7:B7:26:LYS:HG2	7:B7:26:LYS:O	2.12	0.49
8:B8:30:TRP:O	8:B8:31:THR:CB	2.60	0.49
10:BA:546:G:H2'	10:BA:547:C:H5	1.75	0.49
10:BA:614:A:H8	10:BA:614:A:H5'	1.77	0.49
10:BA:688:A:H2'	10:BA:689:A:C8	2.47	0.49
10:BA:1058:A:H2	10:BA:1114:G:N3	2.10	0.49
10:BA:1070:U:H6	10:BA:1070:U:OP1	1.95	0.49
10:BA:1547:G:O2'	10:BA:1548:A:H5'	2.13	0.49
10:BA:1579:G:H3'	18:BI:126:MET:HE2	1.94	0.49
10:BA:1660:A:N6	10:BA:1661:G:O6	2.45	0.49
14:BE:168:ILE:HD12	14:BE:215:THR:N	2.27	0.49
16:BG:133:ALA:HB2	16:BG:200:ARG:CB	2.42	0.49
19:BJ:20:ARG:NH1	19:BJ:90:ASP:OD1	2.46	0.49
23:BN:28:GLY:O	23:BN:30:ILE:N	2.46	0.49
29:BT:38:THR:C	29:BT:40:TRP:N	2.68	0.49
29:BT:38:THR:HG22	29:BT:56:TRP:CZ2	2.47	0.49
29:BT:119:LYS:HE2	29:BT:130:ARG:NH1	2.27	0.49
32:BW:91:VAL:HA	32:BW:101:PHE:O	2.12	0.49
32:BW:124:LYS:NZ	32:BW:145:ASP:CG	2.70	0.49
3:A3:144:ARG:HH12	35:AZ:3:SER:HB3	1.76	0.49
3:A3:152:ARG:HA	3:A3:183:THR:O	2.13	0.49
4:A4:34:PHE:CE1	4:A4:89:LEU:HD12	2.48	0.49
7:A7:47:ARG:HA	7:A7:50:LYS:HG2	1.95	0.49
9:A9:114:LYS:HG2	9:A9:115:GLY:N	2.27	0.49
10:AA:193:C:H2'	10:AA:194:G:H8	1.78	0.49
10:AA:216:G:O2'	10:AA:217:A:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:265:C:OP1	34:AY:180:GLN:CD	2.56	0.49
10:AA:328:G:H5'	10:AA:329:A:N7	2.27	0.49
10:AA:329:A:P	26:AQ:132:LYS:HG2	2.52	0.49
10:AA:685:A:H2	10:AA:716:G:O6	1.95	0.49
10:AA:751:U:O2	13:AD:143:VAL:HG11	2.13	0.49
10:AA:835:U:C2'	10:AA:836:G:H5'	2.42	0.49
10:AA:1046:G:C2	10:AA:1047:C:C5	3.01	0.49
10:AA:1059:A:N6	10:AA:1060:A:N6	2.61	0.49
10:AA:1122:G:H1	10:AA:1600:U:H3	1.60	0.49
10:AA:1299:C:H2'	10:AA:1300:G:H8	1.77	0.49
10:AA:1310:C:H1'	10:AA:1381:A:C5	2.47	0.49
10:AA:1474:G:H5"	29:AT:102:LYS:HE2	1.93	0.49
10:AA:1507:U:O2'	10:AA:1508:G:P	2.69	0.49
10:AA:1660:A:N6	10:AA:1661:G:O6	2.45	0.49
11:AB:23:ILE:HA	11:AB:42:HIS:CD2	2.47	0.49
11:AB:25:LEU:CD2	11:AB:33:ILE:HD13	2.30	0.49
12:AC:207:THR:HG23	12:AC:208:PRO:HD2	1.95	0.49
13:AD:91:ARG:O	13:AD:92:LYS:C	2.56	0.49
15:AF:78:ARG:HH12	15:AF:100:GLY:CA	2.24	0.49
17:AH:17:ALA:CB	17:AH:22:LYS:HD2	2.43	0.49
26:AQ:117:LYS:HD3	26:AQ:120:ASP:OD2	2.13	0.49
28:AS:13:PHE:O	28:AS:14:ARG:HD3	2.13	0.49
29:AT:21:GLU:HG3	29:AT:147:ILE:HD11	1.95	0.49
31:AV:58:MET:CE	31:AV:61:ILE:HD12	2.43	0.49
33:AX:66:LYS:O	33:AX:70:MET:HB2	2.13	0.49
1:B1:7:THR:HG21	1:B1:31:LEU:HD22	1.94	0.49
2:B2:12:ARG:O	2:B2:15:GLY:N	2.46	0.49
6:B6:17:ASN:O	6:B6:18:LYS:C	2.56	0.49
6:B6:32:ASP:O	6:B6:77:PHE:HA	2.12	0.49
8:B8:43:VAL:HG23	22:BM:25:LYS:HE3	1.93	0.49
9:B9:109:VAL:HG11	30:BU:62:LEU:CD2	2.43	0.49
10:BA:132:U:C1'	34:BY:149:LYS:HZ3	2.25	0.49
10:BA:527:A:H5"	13:BD:168:ARG:HH22	1.78	0.49
10:BA:717:G:H3'	10:BA:718:A:C8	2.47	0.49
10:BA:849:A:H61	10:BA:933:A:N6	2.09	0.49
10:BA:1017:C:H2'	10:BA:1018:G:H5'	1.93	0.49
10:BA:1228:A:H2'	10:BA:1228:A:N3	2.28	0.49
10:BA:1252:C:H2'	10:BA:1253:G:C8	2.45	0.49
10:BA:1265:U:H2'	10:BA:1266:G:C8	2.48	0.49
10:BA:1296:G:C6	10:BA:1297:A:N7	2.81	0.49
10:BA:1367:C:H2'	10:BA:1368:A:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1471:C:P	29:BT:130:ARG:NH2	2.86	0.49
10:BA:1540:G:O2'	10:BA:1541:A:OP2	2.31	0.49
11:BB:23:ILE:HA	11:BB:42:HIS:CD2	2.48	0.49
11:BB:198:PHE:N	11:BB:198:PHE:CD1	2.80	0.49
14:BE:178:GLY:HA2	14:BE:196:ASP:HA	1.95	0.49
20:BK:46:ASP:C	20:BK:48:SER:H	2.21	0.49
20:BK:76:GLN:O	20:BK:80:ASP:HB2	2.11	0.49
20:BK:78:ALA:HB1	20:BK:119:LEU:CD1	2.43	0.49
20:BK:82:VAL:HG13	20:BK:124:MET:HE3	1.95	0.49
21:BL:87:PRO:O	21:BL:88:MET:O	2.30	0.49
23:BN:29:LEU:O	23:BN:31:THR:N	2.46	0.49
26:BQ:87:ARG:NH1	26:BQ:104:ARG:NH1	2.59	0.49
32:BW:88:LEU:HD11	32:BW:184:TYR:CE2	2.38	0.49
32:BW:150:ARG:HG2	32:BW:151:PHE:CD1	2.44	0.49
34:BY:153:PRO:O	34:BY:156:ILE:N	2.46	0.49
4:A4:77:ASP:C	4:A4:79:SER:N	2.71	0.49
4:A4:131:LYS:NZ	4:A4:137:ILE:HG12	2.28	0.49
5:A5:13:LYS:CG	10:AA:912:A:H1'	2.42	0.49
8:A8:27:LYS:CE	10:AA:1509:U:H5	2.25	0.49
8:A8:39:VAL:CG1	8:A8:74:LYS:HE2	2.43	0.49
10:AA:155:U:H5"	34:AY:83:CYS:CA	2.42	0.49
10:AA:246:U:H2'	26:AQ:62:ASN:ND2	2.28	0.49
10:AA:430:A:O2'	10:AA:431:U:P	2.71	0.49
10:AA:458:U:H2'	10:AA:459:G:H5'	1.93	0.49
10:AA:469:A:C6	10:AA:531:A:C2	3.01	0.49
10:AA:572:U:C4'	10:AA:573:A:H5'	2.40	0.49
10:AA:604:G:H21	21:AL:19:ARG:HH21	1.56	0.49
10:AA:605:U:H5	26:AQ:95:LYS:HE2	1.77	0.49
10:AA:644:U:C4	10:AA:645:C:N4	2.81	0.49
10:AA:758:A:C2	10:AA:769:C:O2	2.66	0.49
10:AA:796:U:H2'	10:AA:797:A:C4'	2.41	0.49
10:AA:888:C:H5'	10:AA:888:C:H6	1.78	0.49
10:AA:1085:A:H4'	10:AA:1086:G:OP1	2.08	0.49
10:AA:1171:G:C6	23:AN:29:LEU:HD22	2.47	0.49
10:AA:1318:C:O2'	10:AA:1319:U:P	2.71	0.49
12:AC:211:ASP:O	12:AC:213:VAL:N	2.45	0.49
14:AE:45:LEU:N	14:AE:64:PHE:HE2	2.11	0.49
17:AH:79:TYR:H	17:AH:79:TYR:HD1	1.60	0.49
26:AQ:21:LYS:C	26:AQ:23:LEU:N	2.70	0.49
27:AR:8:ASP:OD1	27:AR:9:ILE:N	2.45	0.49
27:AR:102:LEU:HG	27:AR:114:PHE:HE1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AR:109:THR:HG22	27:AR:110:THR:N	2.27	0.49
27:AR:237:LEU:C	27:AR:237:LEU:CD2	2.84	0.49
31:AV:83:ASP:C	31:AV:84:TYR:HD1	2.21	0.49
31:AV:103:LYS:HD2	31:AV:118:VAL:HG21	1.95	0.49
31:AV:112:GLN:HG3	31:AV:113:ASN:H	1.76	0.49
32:AW:70:GLN:CG	32:AW:80:ARG:HH21	2.21	0.49
35:AZ:34:TRP:CE3	35:AZ:34:TRP:C	2.90	0.49
2:B2:78:GLU:HB2	2:B2:80:ILE:CD1	2.43	0.49
2:B2:198:PHE:CD1	26:BQ:5:ILE:HG12	2.48	0.49
4:B4:89:LEU:HB3	4:B4:101:THR:HG22	1.90	0.49
4:B4:207:THR:C	4:B4:209:ASN:N	2.70	0.49
5:B5:28:ARG:HG2	5:B5:29:GLN:N	2.27	0.49
6:B6:54:CYS:SG	6:B6:56:LYS:HB2	2.53	0.49
8:B8:64:LEU:O	8:B8:84:MET:HE1	2.12	0.49
10:BA:62:G:H4'	10:BA:164:U:C5	2.48	0.49
10:BA:86:C:H2'	10:BA:87:G:H5'	1.93	0.49
10:BA:141:A:C8	10:BA:141:A:H3'	2.47	0.49
10:BA:181:G:N2	10:BA:194:G:C4	2.81	0.49
10:BA:411:U:O2'	10:BA:412:U:H5'	2.13	0.49
10:BA:572:U:C4'	10:BA:573:A:H5'	2.42	0.49
10:BA:873:G:H22	20:BK:55:ARG:HH21	1.61	0.49
10:BA:1123:G:N3	10:BA:1721:G:C8	2.81	0.49
10:BA:1310:C:H1'	10:BA:1381:A:C5	2.48	0.49
10:BA:1531:G:C2'	10:BA:1532:U:OP1	2.61	0.49
10:BA:1678:U:H2'	10:BA:1679:A:C8	2.47	0.49
14:BE:173:ALA:HB1	14:BE:174:PRO:CD	2.41	0.49
14:BE:184:ILE:CG2	14:BE:212:LEU:HD21	2.43	0.49
24:BO:49:PRO:HG3	24:BO:74:LEU:CD2	2.42	0.49
26:BQ:18:ASN:N	26:BQ:18:ASN:HD22	2.10	0.49
27:BR:334:ARG:HG3	27:BR:334:ARG:NH1	2.25	0.49
30:BU:26:SER:HB3	30:BU:31:GLU:CG	2.43	0.49
32:BW:127:LYS:O	32:BW:143:THR:HG23	2.13	0.49
4:A4:69:GLU:CD	4:A4:69:GLU:O	2.55	0.49
5:A5:46:ASP:OD1	20:AK:113:GLN:OE1	2.30	0.49
10:AA:352:C:C2	10:AA:375:G:N2	2.81	0.49
10:AA:603:U:H3	21:AL:25:ALA:HB3	1.76	0.49
10:AA:795:A:H5"	10:AA:796:U:OP1	2.12	0.49
10:AA:905:C:H1'	20:AK:138:ASP:HB2	1.95	0.49
10:AA:1428:C:OP1	38:AA:2444:HOH:O	2.19	0.49
10:AA:1558:A:H2'	10:AA:1559:A:H5'	1.95	0.49
10:AA:1610:G:C6	10:AA:1611:C:C2	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1621:G:C4	10:AA:1705:A:C2	3.01	0.49
10:AA:1644:C:H2'	10:AA:1645:C:C6	2.48	0.49
10:AA:1687:C:H2'	10:AA:1688:C:C6	2.48	0.49
10:AA:1744:U:O2'	10:AA:1745:G:O5'	2.28	0.49
12:AC:45:THR:CG2	12:AC:46:PRO:HD2	2.42	0.49
12:AC:74:GLN:HA	12:AC:77:GLN:HE21	1.78	0.49
12:AC:141:ILE:HG22	12:AC:185:MET:CE	2.42	0.49
13:AD:112:ARG:HD2	13:AD:153:GLU:OE2	2.13	0.49
15:AF:27:ARG:O	15:AF:29:ARG:N	2.46	0.49
17:AH:4:VAL:O	17:AH:5:ASN:C	2.56	0.49
17:AH:77:PRO:O	17:AH:78:ARG:HB2	2.12	0.49
18:AI:42:ASN:HB3	18:AI:43:PRO:CD	2.41	0.49
19:AJ:20:ARG:NH1	19:AJ:90:ASP:OD1	2.45	0.49
21:AL:56:ILE:CG2	21:AL:57:GLY:N	2.76	0.49
26:AQ:3:THR:HG21	26:AQ:51:THR:C	2.38	0.49
27:AR:312:CYS:HB3	27:AR:328:PHE:CZ	2.48	0.49
34:AY:153:PRO:O	34:AY:156:ILE:N	2.46	0.49
34:AY:167:THR:C	34:AY:169:LYS:N	2.68	0.49
2:B2:194:LYS:HD3	26:BQ:12:GLN:NE2	2.27	0.49
4:B4:107:ASP:OD1	4:B4:108:ILE:N	2.29	0.49
10:BA:66:A:H2'	10:BA:67:G:C5'	2.35	0.49
10:BA:246:U:H4'	10:BA:247:C:OP2	2.13	0.49
10:BA:271:U:C4'	10:BA:272:U:OP1	2.60	0.49
10:BA:343:C:O2'	10:BA:344:A:OP2	2.29	0.49
10:BA:409:G:H3'	10:BA:409:G:N3	2.28	0.49
10:BA:463:A:C2	10:BA:464:G:C8	3.00	0.49
10:BA:644:U:C4	10:BA:645:C:N4	2.81	0.49
10:BA:1343:G:C2'	10:BA:1344:U:OP1	2.61	0.49
10:BA:1385:U:C2'	10:BA:1386:U:OP1	2.60	0.49
10:BA:1558:A:C5	10:BA:1583:A:C6	3.01	0.49
12:BC:20:PHE:O	12:BC:23:GLU:HB2	2.13	0.49
12:BC:74:GLN:HA	12:BC:77:GLN:HE21	1.77	0.49
13:BD:91:ARG:O	13:BD:92:LYS:C	2.56	0.49
13:BD:126:ARG:HA	13:BD:129:ILE:CD1	2.42	0.49
14:BE:35:ARG:NH2	14:BE:252:ALA:H	2.09	0.49
16:BG:14:PHE:HD2	16:BG:17:TRP:HZ3	1.61	0.49
20:BK:54:VAL:HG11	20:BK:81:VAL:CG1	2.31	0.49
27:BR:96:TRP:HB3	27:BR:120:GLU:HG2	1.94	0.49
27:BR:146:ASN:ND2	27:BR:150:GLU:HB2	2.10	0.49
29:BT:147:ILE:O	29:BT:151:GLN:HG3	2.13	0.49
30:BU:16:ILE:HD12	30:BU:82:TYR:CD2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BV:29:HIS:HA	31:BV:32:LYS:CD	2.34	0.49
32:BW:174:PHE:O	32:BW:175:ALA:HB2	2.12	0.49
2:A2:21:HIS:CD2	2:A2:21:HIS:N	2.76	0.49
2:A2:39:THR:HG22	2:A2:39:THR:O	2.12	0.49
2:A2:78:GLU:HB2	2:A2:80:ILE:CD1	2.42	0.49
2:A2:110:VAL:CG1	2:A2:111:GLU:H	2.16	0.49
2:A2:136:THR:HG21	2:A2:153:ARG:NH1	2.28	0.49
3:A3:70:TYR:OH	3:A3:129:ASP:OD1	2.30	0.49
4:A4:75:LEU:O	4:A4:79:SER:OG	2.30	0.49
4:A4:89:LEU:HB3	4:A4:101:THR:HG22	1.92	0.49
6:A6:68:LYS:CD	10:AA:1027:U:OP1	2.61	0.49
7:A7:5:LEU:HB2	7:A7:8:THR:OG1	2.12	0.49
8:A8:57:PRO:CB	8:A8:87:MET:HE1	2.34	0.49
8:A8:65:THR:O	8:A8:67:SER:N	2.46	0.49
9:A9:78:LYS:HB2	9:A9:80:TYR:HE1	1.77	0.49
9:A9:105:ASN:O	9:A9:107:GLY:N	2.46	0.49
10:AA:122:A:N7	34:AY:201:ARG:NH1	2.61	0.49
10:AA:460:A:C6	10:AA:589:G:N7	2.79	0.49
10:AA:546:G:H2'	10:AA:547:C:H5	1.76	0.49
10:AA:783:U:H2'	10:AA:784:G:C8	2.48	0.49
10:AA:1444:U:O4	16:AG:74:HIS:HB2	2.12	0.49
10:AA:1517:A:OP1	22:AM:133:VAL:N	2.39	0.49
10:AA:1547:G:O2'	10:AA:1548:A:H5'	2.13	0.49
10:AA:1555:A:C2	10:AA:1557:U:O4	2.66	0.49
10:AA:1608:C:N3	10:AA:1610:G:N3	2.60	0.49
10:AA:1688:C:O2'	10:AA:1689:U:H5'	2.13	0.49
10:AA:1703:A:H2'	10:AA:1704:C:H6	1.77	0.49
11:AB:148:SER:O	11:AB:150:LEU:N	2.46	0.49
11:AB:180:ILE:HG12	11:AB:185:LEU:HD23	1.94	0.49
12:AC:77:GLN:O	12:AC:81:GLY:CA	2.60	0.49
14:AE:158:LYS:HG2	14:AE:171:VAL:HG13	1.95	0.49
20:AK:106:LYS:NZ	20:AK:136:PRO:HD2	2.27	0.49
26:AQ:81:ARG:HD3	26:AQ:112:PRO:HG3	1.94	0.49
27:AR:239:ILE:HD11	27:AR:270:VAL:HG21	1.94	0.49
27:AR:326:ALA:CB	27:AR:328:PHE:HE1	2.26	0.49
29:AT:79:LEU:HB2	29:AT:104:LEU:HD21	1.95	0.49
29:AT:118:ARG:HB2	29:AT:133:THR:CG2	2.43	0.49
31:AV:114:ILE:HB	31:AV:115:PRO:HD2	1.93	0.49
32:AW:67:ASP:C	32:AW:69:GLU:H	2.20	0.49
3:B3:132:LEU:O	3:B3:133:PRO:C	2.53	0.49
8:B8:34:LYS:NZ	8:B8:36:LYS:HB3	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:112:GLN:HA	9:B9:112:GLN:OE1	2.12	0.49
9:B9:124:PHE:N	9:B9:124:PHE:HD1	2.11	0.49
10:BA:12:U:O2'	10:BA:1271:G:H1'	2.12	0.49
10:BA:457:G:O2'	10:BA:458:U:H5'	2.12	0.49
10:BA:769:C:C6	10:BA:769:C:H3'	2.48	0.49
10:BA:771:A:H5"	10:BA:772:A:H5'	1.92	0.49
10:BA:867:U:H2'	10:BA:868:U:O4'	2.13	0.49
10:BA:904:A:H2'	10:BA:905:C:C6	2.46	0.49
10:BA:905:C:O2'	20:BK:138:ASP:HB2	2.13	0.49
10:BA:985:C:C2	10:BA:986:G:C8	3.01	0.49
10:BA:1069:U:O2'	14:BE:169:ARG:NE	2.45	0.49
10:BA:1140:U:H5'	10:BA:1141:G:OP2	2.13	0.49
10:BA:1369:A:C2'	10:BA:1370:U:O5'	2.61	0.49
10:BA:1370:U:O4	10:BA:1371:A:N3	2.46	0.49
10:BA:1507:U:O2'	10:BA:1508:G:O5'	2.26	0.49
10:BA:1618:C:H2'	10:BA:1619:U:C6	2.48	0.49
15:BF:88:GLU:HA	15:BF:88:GLU:OE1	2.13	0.49
17:BH:102:VAL:H	17:BH:113:HIS:CB	2.22	0.49
20:BK:88:LEU:O	20:BK:89:LYS:HB2	2.12	0.49
22:BM:100:MET:HA	22:BM:100:MET:HE2	1.94	0.49
24:BO:103:HIS:CE1	24:BO:107:ASN:ND2	2.80	0.49
27:BR:144:LEU:HD12	27:BR:145:TRP:N	2.28	0.49
27:BR:164:TRP:CD1	27:BR:164:TRP:N	2.79	0.49
27:BR:289:ALA:N	27:BR:290:PRO:HD3	2.28	0.49
31:BV:114:ILE:HB	31:BV:115:PRO:HD2	1.94	0.49
35:BZ:1:MET:O	35:BZ:2:ASN:C	2.56	0.49
2:A2:38:LEU:HD21	2:A2:104:LEU:CD1	2.41	0.49
3:A3:135:THR:CG2	3:A3:136:LEU:HD23	2.42	0.49
6:A6:23:ILE:HG23	24:AO:20:PHE:HD2	1.77	0.49
8:A8:46:GLU:O	8:A8:50:VAL:HG23	2.13	0.49
10:AA:44:U:O2	10:AA:425:A:N3	2.46	0.49
10:AA:45:A:C4'	10:AA:46:A:H5'	2.18	0.49
10:AA:148:C:H4'	34:AY:108:VAL:HG21	1.93	0.49
10:AA:165:A:C2'	10:AA:166:C:H5'	2.43	0.49
10:AA:222:U:O2'	10:AA:223:C:H5'	2.13	0.49
10:AA:238:G:N2	10:AA:239:A:H1'	2.28	0.49
10:AA:477:G:C2	10:AA:496:G:N3	2.80	0.49
10:AA:879:G:N1	10:AA:880:G:C2	2.80	0.49
10:AA:1183:A:H4'	28:AS:105:LYS:NZ	2.28	0.49
10:AA:1369:A:C2'	10:AA:1370:U:O5'	2.61	0.49
10:AA:1385:U:H2'	10:AA:1386:U:OP1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:139:PRO:HD3	35:AZ:47:VAL:CG2	2.43	0.49
15:AF:39:PRO:HG2	15:AF:42:PHE:HE1	1.77	0.49
17:AH:18:GLU:CG	17:AH:69:ILE:HB	2.36	0.49
25:AP:55:VAL:CG2	25:AP:58:PHE:HE1	2.26	0.49
27:AR:125:ALA:HB3	27:AR:134:LEU:CB	2.39	0.49
27:AR:184:ALA:O	27:AR:185:PRO:C	2.54	0.49
28:AS:49:ARG:NH1	28:AS:87:SER:O	2.46	0.49
29:AT:15:ALA:CB	29:AT:66:ARG:NE	2.76	0.49
32:AW:124:LYS:HE2	32:AW:126:LEU:CD2	2.43	0.49
4:B4:135:GLY:O	4:B4:136:TYR:HD1	1.95	0.49
10:BA:84:U:C2'	10:BA:85:G:H5'	2.36	0.49
10:BA:160:C:O2	34:BY:133:LEU:HD12	2.13	0.49
10:BA:173:A:H5'	10:BA:173:A:C8	2.44	0.49
10:BA:580:G:H2'	10:BA:581:C:C6	2.48	0.49
10:BA:683:A:C2'	10:BA:684:A:H5'	2.43	0.49
10:BA:770:G:P	32:BW:257:LYS:NZ	2.86	0.49
10:BA:1153:U:O2'	28:BS:131:THR:HG22	2.13	0.49
10:BA:1541:A:O2'	22:BM:147:VAL:CG2	2.61	0.49
13:BD:71:PHE:CE1	32:BW:254:ARG:HD3	2.48	0.49
15:BF:27:ARG:O	15:BF:29:ARG:N	2.46	0.49
16:BG:68:ILE:HD13	16:BG:85:ILE:HA	1.94	0.49
16:BG:104:LEU:C	16:BG:106:VAL:H	2.21	0.49
16:BG:158:PHE:C	16:BG:160:SER:H	2.20	0.49
19:BJ:20:ARG:O	19:BJ:114:LEU:HA	2.12	0.49
19:BJ:37:GLU:C	19:BJ:104:PHE:HZ	2.21	0.49
22:BM:114:GLU:OE2	22:BM:118:LYS:HE3	2.13	0.49
24:BO:60:HIS:O	24:BO:62:ILE:N	2.46	0.49
27:BR:8:ASP:CG	27:BR:343:ASN:HD21	2.19	0.49
29:BT:116:ILE:HG23	29:BT:136:GLY:HA2	1.93	0.49
30:BU:42:LEU:O	30:BU:43:PHE:HB2	2.12	0.49
31:BV:102:THR:O	31:BV:106:LEU:HG	2.12	0.49
32:BW:181:ASN:O	32:BW:196:ILE:HA	2.12	0.49
32:BW:184:TYR:HE1	32:BW:192:GLY:HA2	1.78	0.49
34:BY:148:LYS:N	34:BY:151:ASP:OD2	2.45	0.49
2:A2:93:ALA:HA	26:AQ:9:TYR:CD2	2.48	0.48
4:A4:50:VAL:CG1	4:A4:51:THR:N	2.75	0.48
5:A5:57:LEU:CG	5:A5:58:ALA:N	2.75	0.48
6:A6:46:SER:O	6:A6:69:VAL:HG23	2.12	0.48
10:AA:2:A:C2	10:AA:361:A:H1'	2.48	0.48
10:AA:14:C:OP1	14:AE:165:SER:OG	2.25	0.48
10:AA:49:C:O2'	10:AA:50:A:C5'	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:138:G:OP2	34:AY:143:LYS:NZ	2.46	0.48
10:AA:272:U:O5'	10:AA:272:U:H6	1.95	0.48
10:AA:466:A:N6	13:AD:40:ARG:HH22	2.09	0.48
10:AA:562:G:OP1	21:AL:69:LYS:HD2	2.13	0.48
10:AA:760:G:H8	10:AA:760:G:O5'	1.96	0.48
10:AA:955:A:H2	10:AA:956:A:N3	2.10	0.48
10:AA:1214:A:O2'	10:AA:1216:A:OP1	2.30	0.48
10:AA:1321:G:H21	10:AA:1349:C:N4	2.10	0.48
10:AA:1369:A:H2'	10:AA:1370:U:H6	1.77	0.48
10:AA:1711:U:O2'	10:AA:1712:C:H5'	2.13	0.48
12:AC:163:THR:CG2	12:AC:164:GLY:N	2.76	0.48
15:AF:88:GLU:HA	15:AF:88:GLU:OE1	2.11	0.48
19:AJ:42:ALA:O	19:AJ:48:VAL:HG11	2.12	0.48
21:AL:87:PRO:O	21:AL:88:MET:O	2.31	0.48
22:AM:29:PRO:O	22:AM:32:LEU:HB2	2.12	0.48
26:AQ:21:LYS:HD2	26:AQ:29:ALA:HA	1.95	0.48
27:AR:33:GLN:HE22	27:AR:87:GLU:HA	1.77	0.48
29:AT:44:SER:HA	29:AT:100:HIS:ND1	2.28	0.48
30:AU:87:THR:O	30:AU:88:ALA:O	2.31	0.48
32:AW:127:LYS:HB2	32:AW:228:PHE:CE1	2.47	0.48
32:AW:184:TYR:HE1	32:AW:192:GLY:HA2	1.78	0.48
34:AY:148:LYS:N	34:AY:151:ASP:OD2	2.46	0.48
2:B2:31:ARG:CG	10:BA:323:U:OP1	2.61	0.48
2:B2:41:GLN:C	2:B2:43:THR:H	2.21	0.48
4:B4:69:GLU:HB2	4:B4:86:LYS:HE2	1.94	0.48
5:B5:13:LYS:HG3	10:BA:912:A:H1'	1.95	0.48
7:B7:38:PRO:CG	7:B7:41:HIS:HD2	2.26	0.48
10:BA:136:U:C2	10:BA:263:A:N6	2.80	0.48
10:BA:443:A:H2'	10:BA:445:U:C6	2.47	0.48
10:BA:734:U:C2	10:BA:782:A:H2	2.31	0.48
10:BA:777:U:O2	10:BA:777:U:C2'	2.60	0.48
10:BA:787:A:N3	17:BH:105:THR:HG22	2.28	0.48
10:BA:1008:A:C5'	10:BA:1009:U:OP2	2.60	0.48
10:BA:1369:A:H8	10:BA:1369:A:P	2.37	0.48
11:BB:5:ARG:CG	11:BB:187:LYS:NZ	2.76	0.48
12:BC:117:PRO:HG2	12:BC:120:LEU:HB3	1.95	0.48
13:BD:80:MET:HG2	13:BD:86:LEU:CD1	2.43	0.48
14:BE:83:GLN:HB2	14:BE:208:ARG:HD2	1.94	0.48
16:BG:101:ARG:O	16:BG:103:PRO:CD	2.61	0.48
16:BG:150:ILE:O	16:BG:151:LYS:C	2.55	0.48
18:BI:116:ARG:HB3	18:BI:120:VAL:CG2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:85:PHE:HE1	21:BL:87:PRO:HA	1.78	0.48
23:BN:22:VAL:O	23:BN:24:GLY:N	2.46	0.48
24:BO:43:ALA:CB	24:BO:82:CYS:SG	3.01	0.48
27:BR:47:ARG:HD3	27:BR:78:PHE:CE2	2.48	0.48
30:BU:35:THR:CG2	30:BU:41:ALA:HB2	2.42	0.48
31:BV:43:SER:HB3	31:BV:46:LEU:HB2	1.95	0.48
31:BV:44:LYS:O	31:BV:47:ARG:HB3	2.12	0.48
31:BV:77:GLU:C	31:BV:79:GLU:N	2.69	0.48
32:BW:185:ILE:HG22	32:BW:226:ASN:O	2.13	0.48
32:BW:249:THR:HB	32:BW:252:GLU:H	1.78	0.48
33:BX:7:THR:CG2	33:BX:10:LYS:HB2	2.34	0.48
34:BY:91:PHE:O	34:BY:91:PHE:HD1	1.95	0.48
35:BZ:17:ILE:HG22	35:BZ:21:LYS:HA	1.95	0.48
35:BZ:34:TRP:HD1	35:BZ:82:ALA:HA	1.78	0.48
2:A2:22:ARG:CD	2:A2:25:ARG:CZ	2.91	0.48
2:A2:41:GLN:C	2:A2:43:THR:H	2.20	0.48
2:A2:114:SER:CB	2:A2:172:ILE:HD11	2.43	0.48
4:A4:161:TYR:N	4:A4:161:TYR:CD1	2.79	0.48
9:A9:155:UNK:CA	9:A9:158:UNK:HG3	2.43	0.48
10:AA:295:U:H1'	26:AQ:68:LYS:CE	2.43	0.48
10:AA:425:A:N1	10:AA:426:G:N3	2.61	0.48
10:AA:426:G:H21	10:AA:428:A:H3'	1.77	0.48
10:AA:586:A:OP1	13:AD:39:LYS:HD2	2.12	0.48
10:AA:605:U:H1'	26:AQ:96:TYR:HA	1.95	0.48
10:AA:1008:A:H4'	10:AA:1009:U:OP2	2.13	0.48
10:AA:1366:G:C2	10:AA:1373:G:N2	2.81	0.48
10:AA:1521:C:C2	10:AA:1535:A:C2	3.02	0.48
10:AA:1713:G:H1'	10:AA:1734:A:H2	1.77	0.48
13:AD:168:ARG:HB2	13:AD:172:THR:OG1	2.14	0.48
14:AE:155:ILE:HD11	14:AE:197:ILE:HG21	1.95	0.48
16:AG:99:THR:HG21	16:AG:101:ARG:HE	1.78	0.48
16:AG:104:LEU:C	16:AG:106:VAL:H	2.21	0.48
16:AG:105:GLU:HG2	16:AG:105:GLU:O	2.12	0.48
18:AI:116:ARG:HB3	18:AI:120:VAL:CG2	2.43	0.48
21:AL:85:PHE:HE1	21:AL:87:PRO:HA	1.77	0.48
22:AM:141:SER:O	22:AM:142:GLY:C	2.55	0.48
24:AO:8:GLY:O	24:AO:9:LYS:CB	2.60	0.48
25:AP:13:ASN:OD1	25:AP:15:LEU:HB2	2.14	0.48
27:AR:289:ALA:O	27:AR:291:VAL:N	2.47	0.48
31:AV:77:GLU:C	31:AV:79:GLU:N	2.68	0.48
31:AV:98:ILE:CG2	31:AV:102:THR:HB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:68:MET:O	34:AY:69:VAL:HG23	2.13	0.48
2:B2:40:THR:CG2	2:B2:87:LEU:HD12	2.42	0.48
10:BA:6:G:C2	10:BA:19:A:N3	2.81	0.48
10:BA:44:U:O2'	10:BA:45:A:OP1	2.26	0.48
10:BA:72:G:C2	10:BA:75:C:C4	3.01	0.48
10:BA:100:A:O2'	10:BA:101:A:P	2.71	0.48
10:BA:238:G:N2	10:BA:239:A:H1'	2.28	0.48
10:BA:266:G:C4	10:BA:278:G:N2	2.80	0.48
10:BA:297:U:O2'	10:BA:298:G:H5'	2.13	0.48
10:BA:311:U:O2'	10:BA:312:C:C5	2.62	0.48
10:BA:456:A:O2'	10:BA:457:G:H5'	2.13	0.48
10:BA:498:C:O2'	10:BA:499:A:P	2.71	0.48
10:BA:935:G:C5	10:BA:936:U:C5	3.01	0.48
10:BA:1148:G:H1'	10:BA:1167:C:O2'	2.12	0.48
10:BA:1256:C:H4'	10:BA:1257:U:O5'	2.13	0.48
10:BA:1463:U:O2	10:BA:1463:U:C2'	2.61	0.48
10:BA:1470:C:OP2	29:BT:76:ILE:HG13	2.14	0.48
10:BA:1492:U:O2'	10:BA:1493:A:OP2	2.32	0.48
11:BB:156:VAL:HG23	35:BZ:80:HIS:CB	2.39	0.48
11:BB:198:PHE:HD1	11:BB:198:PHE:H	1.58	0.48
13:BD:37:LYS:HB2	13:BD:38:ASN:OD1	2.12	0.48
13:BD:170:GLY:O	13:BD:174:ARG:HB2	2.13	0.48
14:BE:157:GLN:HE21	14:BE:225:TYR:HB3	1.78	0.48
20:BK:34:MET:HA	20:BK:98:ARG:HG3	1.95	0.48
21:BL:75:LEU:CD2	21:BL:82:ILE:HD12	2.39	0.48
22:BM:138:THR:HG22	22:BM:138:THR:O	2.12	0.48
26:BQ:61:SER:OG	26:BQ:62:ASN:N	2.46	0.48
27:BR:243:LEU:O	27:BR:245:LEU:HG	2.13	0.48
28:BS:101:VAL:HG21	28:BS:121:LEU:CD1	2.38	0.48
30:BU:115:ASP:O	30:BU:119:ILE:HG13	2.14	0.48
31:BV:103:LYS:CE	31:BV:118:VAL:HG21	2.43	0.48
31:BV:112:GLN:HG3	31:BV:113:ASN:H	1.77	0.48
34:BY:76:LEU:C	34:BY:77:LEU:HD23	2.38	0.48
34:BY:102:VAL:CG1	34:BY:109:LEU:HD11	2.43	0.48
3:A3:181:GLU:H	3:A3:181:GLU:HG2	1.41	0.48
5:A5:77:ILE:C	5:A5:81:ILE:HD12	2.34	0.48
5:A5:82:HIS:CD2	10:AA:1722:U:H3	2.31	0.48
8:A8:60:VAL:HB	8:A8:64:LEU:CD2	2.37	0.48
8:A8:64:LEU:O	8:A8:84:MET:HE1	2.12	0.48
9:A9:113:GLN:HA	9:A9:127:LYS:CE	2.43	0.48
10:AA:55:U:O2'	10:AA:56:G:OP2	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:64:U:O2	10:AA:81:A:N6	2.45	0.48
10:AA:306:A:N9	10:AA:344:A:N6	2.61	0.48
10:AA:341:G:H5"	10:AA:342:U:C3'	2.42	0.48
10:AA:506:U:C4'	13:AD:131:GLN:HB3	2.43	0.48
10:AA:532:G:HO2'	10:AA:533:G:P	2.37	0.48
10:AA:616:A:H4'	10:AA:617:A:C5'	2.32	0.48
10:AA:623:U:N3	10:AA:949:A:C6	2.81	0.48
10:AA:1072:G:N2	17:AH:79:TYR:CZ	2.81	0.48
10:AA:1099:G:H2'	10:AA:1100:U:H6	1.78	0.48
10:AA:1164:C:H5"	10:AA:1165:A:H3'	1.95	0.48
10:AA:1228:A:H2'	10:AA:1228:A:N3	2.28	0.48
10:AA:1427:C:OP2	10:AA:1428:C:C5	2.66	0.48
10:AA:1552:U:C2'	10:AA:1553:C:H5'	2.43	0.48
12:AC:109:ASN:HD21	12:AC:178:VAL:HG13	1.77	0.48
13:AD:120:ASN:H	13:AD:124:HIS:HD2	1.56	0.48
14:AE:83:GLN:C	14:AE:84:ILE:HG13	2.38	0.48
14:AE:162:LYS:HD2	14:AE:162:LYS:H	1.78	0.48
16:AG:19:TYR:CE2	16:AG:41:GLN:HA	2.48	0.48
22:AM:143:ARG:O	22:AM:144:HIS:HB2	2.12	0.48
24:AO:56:LEU:HD22	24:AO:62:ILE:HD12	1.96	0.48
25:AP:28:PRO:O	25:AP:29:ASP:CB	2.61	0.48
26:AQ:12:GLN:O	26:AQ:53:VAL:HG13	2.14	0.48
27:AR:224:ASN:HB3	27:AR:226:LYS:CG	2.40	0.48
29:AT:69:TYR:HA	29:AT:132:ILE:HG21	1.94	0.48
33:AX:62:TRP:CH2	33:AX:63:HIS:NE2	2.81	0.48
34:AY:132:LYS:HZ3	34:AY:163:ARG:CB	2.26	0.48
2:B2:94:THR:HG23	10:BA:319:A:C2	2.48	0.48
3:B3:118:CYS:HB3	10:BA:633:U:OP1	2.14	0.48
7:B7:11:ARG:C	7:B7:15:GLN:HE21	2.21	0.48
10:BA:81:A:O2'	25:BP:117:GLY:HA3	2.12	0.48
10:BA:311:U:H4'	10:BA:312:C:C6	2.48	0.48
10:BA:639:C:H2'	10:BA:640:A:H8	1.77	0.48
10:BA:746:A:C4	10:BA:747:G:C8	3.01	0.48
10:BA:755:G:P	13:BD:7:ASN:ND2	2.86	0.48
10:BA:936:U:H5'	10:BA:937:U:OP1	2.12	0.48
10:BA:958:G:H4'	10:BA:1729:A:H4'	1.94	0.48
10:BA:1198:A:N3	10:BA:1228:A:C2	2.81	0.48
10:BA:1213:G:H1'	28:BS:84:HIS:CG	2.48	0.48
10:BA:1278:C:O2'	10:BA:1279:U:P	2.71	0.48
10:BA:1425:G:N2	10:BA:1426:G:H1'	2.29	0.48
10:BA:1485:G:O2'	10:BA:1487:A:N3	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1541:A:O2'	22:BM:147:VAL:HG21	2.12	0.48
12:BC:145:LEU:CD1	12:BC:153:MET:HB2	2.44	0.48
13:BD:26:ASN:HA	13:BD:29:LYS:HG3	1.96	0.48
13:BD:69:ARG:NH2	13:BD:92:LYS:NZ	2.61	0.48
14:BE:231:TRP:O	14:BE:232:GLY:O	2.30	0.48
16:BG:125:THR:HB	16:BG:130:ARG:NH2	2.28	0.48
19:BJ:67:LYS:HE2	19:BJ:78:ASP:OD1	2.14	0.48
24:BO:96:LYS:HG3	24:BO:97:ALA:N	2.27	0.48
27:BR:107:THR:C	27:BR:109:THR:N	2.67	0.48
27:BR:280:ILE:HD12	27:BR:338:PHE:CE2	2.49	0.48
32:BW:124:LYS:HE2	32:BW:126:LEU:CD2	2.43	0.48
34:BY:90:GLY:O	34:BY:92:ARG:N	2.46	0.48
34:BY:98:ARG:HD2	34:BY:99:GLY:N	2.29	0.48
34:BY:210:GLU:O	34:BY:214:LYS:HG3	2.13	0.48
35:BZ:73:VAL:HG13	35:BZ:78:GLU:HB3	1.95	0.48
2:A2:92:ASN:O	2:A2:94:THR:N	2.46	0.48
4:A4:31:TRP:C	4:A4:32:TYR:CD1	2.91	0.48
4:A4:121:GLN:NE2	4:A4:145:PHE:CD2	2.78	0.48
10:AA:381:G:N2	10:AA:398:A:C6	2.80	0.48
10:AA:449:G:O2'	10:AA:450:G:H5'	2.12	0.48
10:AA:505:A:OP2	13:AD:170:GLY:N	2.42	0.48
10:AA:731:C:O2'	17:AH:121:THR:HG23	2.12	0.48
10:AA:756:G:OP2	32:AW:22:LYS:HB2	2.14	0.48
10:AA:1064:A:O2'	10:AA:1065:A:H3'	2.12	0.48
10:AA:1370:U:O4	10:AA:1371:A:N3	2.46	0.48
10:AA:1574:C:OP2	29:AT:93:ARG:NH2	2.45	0.48
10:AA:1657:G:H2'	10:AA:1658:A:H8	1.78	0.48
11:AB:179:LYS:HE3	11:AB:191:TRP:HH2	1.78	0.48
12:AC:104:GLN:HE21	12:AC:129:VAL:HG22	1.79	0.48
14:AE:167:ARG:CB	14:AE:202:GLN:HB2	2.43	0.48
16:AG:63:ILE:O	16:AG:66:ARG:HB2	2.14	0.48
17:AH:46:TYR:C	17:AH:66:ILE:HD12	2.37	0.48
17:AH:83:LEU:HD11	17:AH:120:HIS:C	2.39	0.48
17:AH:89:TRP:CD2	17:AH:125:ILE:HD11	2.48	0.48
20:AK:88:LEU:O	20:AK:89:LYS:HB2	2.13	0.48
22:AM:123:ARG:HH11	22:AM:123:ARG:CG	2.25	0.48
23:AN:13:TYR:N	23:AN:13:TYR:CD1	2.82	0.48
28:AS:60:LYS:NZ	28:AS:64:LYS:HE3	2.28	0.48
29:AT:49:LEU:HG	29:AT:50:ALA:N	2.28	0.48
30:AU:113:THR:HG22	30:AU:115:ASP:H	1.77	0.48
32:AW:144:HIS:C	32:AW:146:SER:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:188:GLY:C	32:AW:190:ASN:N	2.70	0.48
2:B2:65:ALA:C	2:B2:66:LEU:HD23	2.39	0.48
2:B2:179:ARG:NH2	10:BA:322:G:O6	2.47	0.48
2:B2:202:LYS:O	2:B2:206:LYS:CB	2.56	0.48
3:B3:102:SER:HB2	3:B3:105:VAL:HG23	1.95	0.48
3:B3:157:GLN:HB2	3:B3:188:GLU:HA	1.95	0.48
6:B6:39:GLN:O	6:B6:40:ASN:C	2.57	0.48
9:B9:120:GLY:N	9:B9:121:PRO:HD2	2.28	0.48
10:BA:2:A:N3	14:BE:198:TYR:CD2	2.81	0.48
10:BA:397:U:H4'	34:BY:76:LEU:HD21	1.95	0.48
10:BA:427:A:C5'	21:BL:49:LYS:HG3	2.38	0.48
10:BA:630:A:O2'	17:BH:58:SER:HB3	2.14	0.48
10:BA:770:G:P	32:BW:257:LYS:HZ1	2.36	0.48
10:BA:1353:G:H1'	19:BJ:55:ARG:NH1	2.28	0.48
10:BA:1569:A:C4	23:BN:13:TYR:HE2	2.31	0.48
11:BB:45:ASN:HD21	31:BV:109:LEU:CD1	2.27	0.48
13:BD:60:LEU:HD21	13:BD:93:LEU:HB3	1.96	0.48
13:BD:168:ARG:HB2	13:BD:172:THR:OG1	2.14	0.48
14:BE:27:TRP:CE2	14:BE:59:GLU:HB2	2.49	0.48
16:BG:50:ARG:NH1	18:BI:123:PRO:HG3	2.27	0.48
16:BG:52:GLN:HE22	16:BG:58:LYS:CE	2.27	0.48
16:BG:105:GLU:O	16:BG:105:GLU:HG2	2.12	0.48
16:BG:107:PHE:HA	16:BG:172:ILE:CG2	2.44	0.48
19:BJ:25:CYS:HB3	19:BJ:31:VAL:HB	1.95	0.48
20:BK:47:LEU:N	20:BK:47:LEU:CD2	2.69	0.48
21:BL:73:VAL:HG12	21:BL:74:LEU:N	2.28	0.48
26:BQ:128:ARG:HB2	26:BQ:129:PRO:HD2	1.96	0.48
32:BW:70:GLN:CG	32:BW:80:ARG:HH21	2.21	0.48
32:BW:89:MET:HG3	32:BW:228:PHE:HE2	1.74	0.48
1:A1:48:ALA:HB3	16:AG:139:MET:HG2	1.95	0.48
2:A2:175:CYS:HB3	2:A2:189:TYR:CZ	2.48	0.48
3:A3:44:GLN:HG2	3:A3:45:VAL:N	2.28	0.48
4:A4:108:ILE:CG2	4:A4:109:THR:H	2.17	0.48
5:A5:34:LYS:NZ	10:AA:1744:U:C5	2.81	0.48
5:A5:77:ILE:HG12	10:AA:1746:G:C6	2.48	0.48
6:A6:5:LEU:CB	17:AH:24:GLN:NE2	2.76	0.48
9:A9:149:UNK:HG2	9:A9:150:UNK:N	2.27	0.48
10:AA:3:C:C5'	10:AA:3:C:C6	2.86	0.48
10:AA:223:C:H2'	10:AA:224:G:O4'	2.12	0.48
10:AA:386:U:H4'	34:AY:89:SER:HB2	1.95	0.48
10:AA:425:A:N1	10:AA:426:G:C2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:679:U:H2'	10:AA:680:U:O4'	2.13	0.48
10:AA:761:U:O2'	10:AA:762:U:C5'	2.61	0.48
10:AA:976:A:N6	10:AA:982:U:OP2	2.47	0.48
10:AA:1200:G:O5'	10:AA:1200:G:C8	2.63	0.48
10:AA:1582:G:H5"	16:AG:81:LYS:HB3	1.96	0.48
11:AB:203:LEU:CD2	11:AB:204:PRO:HD2	2.43	0.48
12:AC:151:LYS:HD2	12:AC:152:THR:H	1.79	0.48
14:AE:83:GLN:HB2	14:AE:208:ARG:HD2	1.95	0.48
14:AE:232:GLY:C	35:AZ:13:MET:HB2	2.38	0.48
17:AH:36:LYS:O	17:AH:40:ILE:HG13	2.14	0.48
18:AI:8:LEU:HD12	18:AI:9:VAL:N	2.23	0.48
19:AJ:61:LEU:HD22	23:AN:33:TYR:OH	2.13	0.48
26:AQ:11:LYS:HB3	26:AQ:53:VAL:HB	1.94	0.48
27:AR:144:LEU:HD12	27:AR:145:TRP:N	2.28	0.48
28:AS:42:PHE:CD2	28:AS:46:THR:HG21	2.49	0.48
28:AS:60:LYS:HD3	28:AS:64:LYS:HE3	1.94	0.48
29:AT:9:THR:HG22	29:AT:10:VAL:H	1.74	0.48
31:AV:43:SER:HB3	31:AV:46:LEU:HB2	1.94	0.48
35:AZ:1:MET:O	35:AZ:2:ASN:C	2.56	0.48
2:B2:56:VAL:HG22	10:BA:324:A:H5"	1.95	0.48
2:B2:152:LYS:O	2:B2:155:LYS:HB3	2.13	0.48
3:B3:113:ARG:O	3:B3:113:ARG:HG2	2.12	0.48
3:B3:126:LEU:O	3:B3:130:LEU:HG	2.14	0.48
8:B8:72:LYS:C	8:B8:73:LEU:HD23	2.39	0.48
9:B9:149:UNK:HG2	9:B9:150:UNK:N	2.27	0.48
10:BA:66:A:N6	10:BA:67:G:C2	2.81	0.48
10:BA:85:G:C4	10:BA:444:A:C2	3.02	0.48
10:BA:95:C:H4'	10:BA:96:A:O5'	2.14	0.48
10:BA:100:A:C2	10:BA:299:C:C4	3.02	0.48
10:BA:130:A:H2	10:BA:170:C:OP1	1.96	0.48
10:BA:133:A:H61	10:BA:169:G:C2'	2.26	0.48
10:BA:148:C:H4'	34:BY:108:VAL:CG2	2.43	0.48
10:BA:302:U:O2'	10:BA:303:A:H5"	2.14	0.48
10:BA:472:A:O2'	10:BA:473:A:H5'	2.14	0.48
10:BA:942:U:O2'	10:BA:943:U:P	2.71	0.48
10:BA:981:A:C2'	10:BA:982:U:OP2	2.60	0.48
10:BA:1169:C:OP1	18:BI:140:MET:SD	2.70	0.48
10:BA:1384:U:C4'	10:BA:1385:U:OP2	2.62	0.48
10:BA:1440:A:H2'	10:BA:1441:C:C6	2.48	0.48
10:BA:1582:G:H5"	16:BG:81:LYS:HB3	1.95	0.48
13:BD:106:GLU:CA	13:BD:111:THR:HG21	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BG:117:ARG:HE	16:BG:189:LYS:HZ3	1.61	0.48
18:BI:4:GLN:O	18:BI:5:LYS:CB	2.61	0.48
18:BI:13:GLY:HA2	18:BI:85:GLN:NE2	2.29	0.48
18:BI:88:SER:HB3	18:BI:111:LEU:HD13	1.95	0.48
27:BR:249:GLN:O	27:BR:250:ARG:HB2	2.13	0.48
27:BR:281:PHE:N	27:BR:281:PHE:HD1	2.11	0.48
31:BV:103:LYS:HE3	31:BV:118:VAL:HG21	1.94	0.48
31:BV:114:ILE:HG22	31:BV:115:PRO:HD3	1.96	0.48
32:BW:18:TRP:O	32:BW:19:MET:C	2.57	0.48
32:BW:31:PRO:HB2	32:BW:38:LEU:CD2	2.43	0.48
32:BW:194:VAL:HG21	32:BW:240:LEU:HD13	1.95	0.48
34:BY:145:PHE:CD1	34:BY:145:PHE:N	2.81	0.48
35:BZ:34:TRP:HD1	35:BZ:82:ALA:CA	2.25	0.48
1:A1:42:ILE:H	1:A1:63:GLU:CG	2.19	0.48
2:A2:25:ARG:HA	10:AA:391:A:OP2	2.13	0.48
2:A2:49:ARG:HB2	2:A2:68:LEU:HD23	1.95	0.48
2:A2:84:THR:HG21	2:A2:113:ASP:O	2.14	0.48
4:A4:35:ARG:NH1	4:A4:98:ASN:OD1	2.46	0.48
7:A7:88:ILE:HG23	7:A7:93:LYS:HG3	1.95	0.48
10:AA:64:U:C5	10:AA:79:G:C2	3.01	0.48
10:AA:343:C:O2'	10:AA:344:A:P	2.72	0.48
10:AA:443:A:H2'	10:AA:445:U:C6	2.48	0.48
10:AA:747:G:N2	10:AA:755:G:N1	2.61	0.48
10:AA:884:A:H2'	10:AA:885:A:O4'	2.14	0.48
10:AA:1088:A:O2'	10:AA:1089:U:P	2.70	0.48
10:AA:1373:G:C4	10:AA:1374:C:H5	2.31	0.48
10:AA:1544:G:H8	10:AA:1544:G:O5'	1.96	0.48
12:AC:9:ASN:HD22	12:AC:12:LYS:CD	2.25	0.48
12:AC:10:LYS:CE	19:AJ:86:LYS:HZ2	2.25	0.48
12:AC:229:THR:HG22	12:AC:231:VAL:HG23	1.95	0.48
15:AF:75:GLY:HA3	15:AF:77:HIS:NE2	2.29	0.48
16:AG:178:ASN:HA	16:AG:186:ILE:HD13	1.95	0.48
17:AH:106:THR:HG23	17:AH:122:GLY:CA	2.43	0.48
17:AH:110:ILE:C	17:AH:111:LEU:HD23	2.38	0.48
25:AP:83:TYR:N	25:AP:83:TYR:CD1	2.79	0.48
27:AR:164:TRP:N	27:AR:164:TRP:CD1	2.80	0.48
27:AR:280:ILE:HD12	27:AR:338:PHE:CE2	2.49	0.48
29:AT:22:TYR:HD1	29:AT:22:TYR:O	1.97	0.48
32:AW:44:LEU:O	32:AW:45:SER:C	2.56	0.48
3:B3:109:LYS:H	3:B3:109:LYS:CD	2.26	0.48
8:B8:65:THR:O	8:B8:67:SER:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:90:HIS:NE2	10:BA:1217:G:N2	2.61	0.48
10:BA:50:A:H2'	10:BA:51:U:H5'	1.95	0.48
10:BA:64:U:O2	10:BA:81:A:N6	2.47	0.48
10:BA:96:A:C2'	10:BA:97:U:H5'	2.43	0.48
10:BA:613:A:O5'	10:BA:614:A:OP1	2.31	0.48
10:BA:783:U:H2'	10:BA:784:G:H8	1.77	0.48
10:BA:879:G:C6	10:BA:880:G:C6	3.02	0.48
10:BA:888:C:H5'	10:BA:888:C:H6	1.79	0.48
10:BA:1339:G:H2'	10:BA:1340:G:H8	1.78	0.48
10:BA:1580:U:H2'	10:BA:1581:U:C6	2.48	0.48
10:BA:1715:A:O2'	10:BA:1736:C:H5"	2.13	0.48
12:BC:225:LYS:HD3	27:BR:209:PHE:CD1	2.49	0.48
16:BG:57:ARG:O	16:BG:59:THR:N	2.47	0.48
17:BH:64:GLU:O	17:BH:65:LEU:HD23	2.14	0.48
18:BI:12:PHE:HA	18:BI:20:ALA:O	2.14	0.48
18:BI:24:VAL:HG13	18:BI:67:ILE:HG12	1.93	0.48
23:BN:16:ASP:OD1	23:BN:26:ARG:NH1	2.42	0.48
25:BP:76:ASN:C	25:BP:78:GLN:N	2.70	0.48
25:BP:119:ALA:C	25:BP:123:LEU:HD13	2.39	0.48
28:BS:45:LYS:O	28:BS:48:ARG:HB3	2.13	0.48
31:BV:34:ILE:O	31:BV:38:VAL:HG23	2.13	0.48
33:BX:7:THR:CG2	33:BX:8:LEU:H	2.25	0.48
2:A2:65:ALA:C	2:A2:66:LEU:HD23	2.39	0.48
2:A2:148:GLN:OE1	10:AA:189:C:H1'	2.13	0.48
3:A3:70:TYR:CE2	3:A3:74:LEU:HD11	2.49	0.48
7:A7:60:ASN:HB2	12:AC:26:SER:OG	2.14	0.48
10:AA:135:A:H2	34:AY:183:ILE:HG23	1.78	0.48
10:AA:444:A:H3'	10:AA:445:U:H6	1.77	0.48
10:AA:553:A:H61	12:AC:181:LYS:HB3	1.79	0.48
10:AA:642:G:C6	10:AA:643:U:C4	3.01	0.48
10:AA:670:G:C5'	10:AA:670:G:H8	2.26	0.48
10:AA:900:A:H2'	10:AA:901:A:C8	2.48	0.48
10:AA:1158:U:O4	10:AA:1159:U:C4	2.66	0.48
10:AA:1193:A:H5'	30:AU:90:ALA:HB2	1.96	0.48
10:AA:1326:C:H5'	10:AA:1326:C:C6	2.48	0.48
10:AA:1367:C:H2'	10:AA:1368:A:H5'	1.95	0.48
10:AA:1558:A:C8	10:AA:1583:A:N6	2.81	0.48
12:AC:11:LYS:HG2	19:AJ:61:LEU:HD21	1.95	0.48
13:AD:129:ILE:HD13	13:AD:129:ILE:H	1.78	0.48
16:AG:13:LEU:C	16:AG:15:GLY:N	2.69	0.48
16:AG:71:LEU:HG	16:AG:84:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AJ:37:GLU:C	19:AJ:104:PHE:HZ	2.22	0.48
21:AL:69:LYS:HZ2	21:AL:92:LEU:HD23	1.78	0.48
22:AM:18:LEU:HD21	22:AM:70:THR:HG23	1.95	0.48
22:AM:94:ASP:HB2	28:AS:15:GLY:O	2.14	0.48
24:AO:128:SER:O	24:AO:132:LYS:HG3	2.14	0.48
26:AQ:20:LYS:HB2	26:AQ:20:LYS:HE3	1.55	0.48
27:AR:87:GLU:CD	27:AR:87:GLU:N	2.64	0.48
27:AR:186:TYR:HB2	27:AR:199:TRP:O	2.13	0.48
27:AR:218:HIS:HD2	27:AR:261:ILE:H	1.60	0.48
27:AR:285:THR:CG2	27:AR:286:GLN:N	2.77	0.48
27:AR:289:ALA:N	27:AR:290:PRO:CD	2.76	0.48
4:B4:53:SER:HG	4:B4:59:ALA:HB2	1.76	0.48
4:B4:130:CYS:CB	4:B4:138:ILE:HD12	2.38	0.48
7:B7:77:LYS:HA	7:B7:84:ALA:HB3	1.96	0.48
10:BA:246:U:H2'	26:BQ:62:ASN:ND2	2.28	0.48
10:BA:341:G:O2'	10:BA:342:U:OP2	2.27	0.48
10:BA:386:U:H4'	34:BY:89:SER:HB2	1.96	0.48
10:BA:392:A:H3'	10:BA:393:C:C4'	2.44	0.48
10:BA:533:G:H3'	33:BX:28:ARG:HH12	1.79	0.48
10:BA:866:U:O2'	10:BA:967:U:H4'	2.13	0.48
10:BA:971:A:N6	10:BA:990:U:C5	2.82	0.48
10:BA:1153:U:C2	10:BA:1157:U:H5	2.32	0.48
10:BA:1465:C:C2'	10:BA:1466:C:C5'	2.85	0.48
10:BA:1472:U:OP2	29:BT:105:ARG:NH1	2.47	0.48
10:BA:1590:C:O2'	10:BA:1591:C:OP2	2.27	0.48
11:BB:172:TRP:CD2	11:BB:195:VAL:HG22	2.48	0.48
12:BC:98:GLY:HA2	12:BC:104:GLN:NE2	2.29	0.48
13:BD:94:ASP:HB3	14:BE:149:ILE:CD1	2.40	0.48
14:BE:35:ARG:NH2	14:BE:251:LYS:HB2	2.29	0.48
17:BH:74:VAL:CG1	17:BH:75:ILE:H	2.19	0.48
20:BK:54:VAL:HG22	20:BK:84:ARG:HG3	1.95	0.48
27:BR:20:HIS:CE1	27:BR:46:SER:HB3	2.48	0.48
27:BR:125:ALA:HB2	27:BR:168:VAL:HG23	1.94	0.48
27:BR:134:LEU:HD21	27:BR:187:PHE:CE2	2.49	0.48
32:BW:49:LYS:HE3	32:BW:61:VAL:CG2	2.44	0.48
32:BW:216:LYS:HG2	32:BW:216:LYS:O	2.13	0.48
2:A2:145:ARG:NH1	10:AA:181:G:O6	2.47	0.48
8:A8:28:LYS:HE3	10:AA:1543:C:OP2	2.13	0.48
10:AA:15:U:O2'	10:AA:614:A:N6	2.46	0.48
10:AA:181:G:C2	10:AA:194:G:C2	3.02	0.48
10:AA:748:U:C4	13:AD:149:ARG:HG3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:954:G:N2	10:AA:1001:A:H2'	2.29	0.48
10:AA:1125:A:C6	10:AA:1126:C:C4	3.01	0.48
10:AA:1277:U:H1'	10:AA:1286:U:C4	2.48	0.48
10:AA:1511:A:C2'	10:AA:1512:G:OP2	2.62	0.48
10:AA:1563:C:H3'	10:AA:1563:C:C6	2.49	0.48
10:AA:1611:C:C2'	10:AA:1612:C:H5'	2.43	0.48
11:AB:198:PHE:N	11:AB:198:PHE:CD1	2.82	0.48
14:AE:213:LYS:O	14:AE:217:TYR:CD1	2.67	0.48
14:AE:231:TRP:O	14:AE:232:GLY:O	2.31	0.48
21:AL:61:LYS:HD2	21:AL:117:PRO:HA	1.96	0.48
23:AN:22:VAL:O	23:AN:24:GLY:N	2.47	0.48
25:AP:16:LEU:HB3	25:AP:83:TYR:CD2	2.47	0.48
26:AQ:4:GLN:CD	26:AQ:10:GLN:OE1	2.56	0.48
27:AR:269:TRP:HB3	27:AR:281:PHE:O	2.14	0.48
27:AR:287:SER:OG	27:AR:288:LYS:N	2.46	0.48
29:AT:147:ILE:O	29:AT:151:GLN:HG3	2.13	0.48
30:AU:70:TYR:HD2	30:AU:126:ALA:C	2.22	0.48
31:AV:41:VAL:HG11	31:AV:47:ARG:CB	2.43	0.48
2:B2:192:GLU:C	2:B2:196:LEU:HB2	2.39	0.48
3:B3:73:LEU:O	3:B3:73:LEU:HD12	2.13	0.48
3:B3:84:LEU:HD12	3:B3:94:PHE:HZ	1.79	0.48
4:B4:42:SER:O	4:B4:43:LYS:O	2.31	0.48
10:BA:89:A:N7	10:BA:389:G:C4	2.82	0.48
10:BA:262:G:C2	10:BA:264:U:C4	3.02	0.48
10:BA:442:U:H5"	32:BW:7:LYS:CE	2.37	0.48
10:BA:533:G:H2'	10:BA:534:A:O5'	2.14	0.48
10:BA:576:U:H4'	10:BA:577:C:OP1	2.14	0.48
10:BA:892:G:O2'	10:BA:893:A:O4'	2.32	0.48
10:BA:986:G:C2	10:BA:987:U:C5	3.02	0.48
10:BA:1120:A:O2'	10:BA:1608:C:OP2	2.29	0.48
10:BA:1177:C:C5	10:BA:1178:U:C2	3.01	0.48
10:BA:1552:U:C2'	10:BA:1553:C:H5'	2.43	0.48
10:BA:1717:C:H3'	10:BA:1718:A:H5'	1.96	0.48
11:BB:46:ILE:HG13	31:BV:105:MET:SD	2.54	0.48
11:BB:98:ARG:NH1	11:BB:101:PRO:CD	2.76	0.48
11:BB:134:SER:HB3	11:BB:152:TYR:CD2	2.48	0.48
13:BD:127:VAL:O	13:BD:131:GLN:CG	2.55	0.48
13:BD:128:LEU:O	13:BD:130:ARG:N	2.47	0.48
14:BE:167:ARG:O	14:BE:201:SER:HA	2.14	0.48
16:BG:158:PHE:O	16:BG:160:SER:N	2.39	0.48
17:BH:25:VAL:HG12	17:BH:26:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BI:29:GLY:HA2	18:BI:65:LEU:O	2.12	0.48
18:BI:42:ASN:CB	18:BI:43:PRO:HD3	2.40	0.48
18:BI:98:TYR:N	18:BI:98:TYR:CD1	2.81	0.48
18:BI:142:LYS:HB3	18:BI:144:TYR:HE1	1.79	0.48
21:BL:78:ASN:ND2	21:BL:80:LYS:HG3	2.29	0.48
26:BQ:97:ASN:C	26:BQ:98:ARG:HG2	2.37	0.48
27:BR:255:GLY:N	27:BR:279:LYS:HE3	2.28	0.48
29:BT:79:LEU:HB2	29:BT:104:LEU:HD21	1.95	0.48
30:BU:73:VAL:HG13	30:BU:74:PRO:HD2	1.95	0.48
34:BY:97:VAL:CG1	34:BY:98:ARG:N	2.76	0.48
2:A2:73:PHE:HA	2:A2:188:GLY:O	2.14	0.48
3:A3:109:LYS:HE3	10:AA:725:A:OP1	2.13	0.48
6:A6:5:LEU:H	17:AH:24:GLN:HE22	1.61	0.48
7:A7:100:ILE:HG22	12:AC:91:ALA:O	2.14	0.48
8:A8:73:LEU:O	8:A8:74:LYS:HB2	2.13	0.48
9:A9:120:GLY:N	9:A9:121:PRO:HD2	2.29	0.48
9:A9:129:TYR:HB2	9:A9:154:UNK:HG1	1.95	0.48
10:AA:58:G:O4'	10:AA:444:A:C8	2.66	0.48
10:AA:272:U:H2'	10:AA:273:A:C5'	2.44	0.48
10:AA:303:A:C2	10:AA:305:C:C2	3.02	0.48
10:AA:499:A:H5"	10:AA:500:U:OP2	2.14	0.48
10:AA:614:A:H8	10:AA:614:A:H5'	1.78	0.48
10:AA:757:C:H2'	10:AA:758:A:O4'	2.13	0.48
10:AA:763:U:H4'	10:AA:764:U:OP2	2.14	0.48
10:AA:837:A:C4	24:AO:75:ARG:CZ	2.97	0.48
10:AA:842:U:H5'	10:AA:842:U:H6	1.78	0.48
10:AA:866:U:O2'	10:AA:967:U:H4'	2.13	0.48
13:AD:38:ASN:HD22	13:AD:40:ARG:CD	2.25	0.48
17:AH:112:THR:HG22	17:AH:114:GLU:H	1.77	0.48
18:AI:24:VAL:HG13	18:AI:67:ILE:HG12	1.94	0.48
21:AL:26:ASP:HB3	21:AL:29:PHE:HB3	1.95	0.48
27:AR:234:ASP:C	27:AR:236:LYS:H	2.22	0.48
30:AU:26:SER:HB3	30:AU:31:GLU:CG	2.43	0.48
34:AY:31:LYS:HB2	34:AY:34:GLN:NE2	2.29	0.48
2:B2:92:ASN:O	2:B2:94:THR:N	2.46	0.48
2:B2:111:GLU:OE1	2:B2:171:ARG:HB3	2.14	0.48
3:B3:180:ARG:O	3:B3:182:VAL:HG23	2.14	0.48
6:B6:34:LYS:HD2	6:B6:76:ALA:HB3	1.96	0.48
7:B7:30:GLY:O	7:B7:39:ASN:ND2	2.47	0.48
10:BA:413:C:N4	34:BY:91:PHE:CE2	2.82	0.48
10:BA:623:U:C6	10:BA:623:U:C3'	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:783:U:H2'	10:BA:784:G:C8	2.49	0.48
10:BA:796:U:H2'	10:BA:797:A:C4'	2.43	0.48
10:BA:876:A:O2'	10:BA:877:G:P	2.72	0.48
10:BA:1055:G:C6	10:BA:1056:A:N7	2.82	0.48
10:BA:1173:G:N2	10:BA:1571:C:H2'	2.29	0.48
10:BA:1500:C:H5"	16:BG:86:LYS:NZ	2.28	0.48
13:BD:83:TYR:HD2	13:BD:147:MET:HG3	1.79	0.48
13:BD:167:GLY:O	13:BD:168:ARG:HB3	2.14	0.48
14:BE:213:LYS:O	14:BE:217:TYR:CD1	2.66	0.48
16:BG:174:ASN:CB	16:BG:182:SER:O	2.62	0.48
17:BH:17:ALA:CB	17:BH:22:LYS:HD2	2.44	0.48
17:BH:83:LEU:HD11	17:BH:120:HIS:C	2.39	0.48
19:BJ:56:MET:HE3	19:BJ:88:ILE:HD12	1.95	0.48
20:BK:95:ILE:CD1	20:BK:129:ILE:HG23	2.33	0.48
24:BO:142:LYS:O	24:BO:147:THR:OG1	2.32	0.48
27:BR:252:PHE:CD2	27:BR:281:PHE:HD2	2.31	0.48
31:BV:47:ARG:CD	31:BV:47:ARG:C	2.86	0.48
32:BW:207:PHE:HE2	32:BW:223:ARG:NE	2.12	0.48
33:BX:66:LYS:O	33:BX:70:MET:HB2	2.13	0.48
34:BY:179:ILE:O	34:BY:179:ILE:HG22	2.14	0.48
35:BZ:47:VAL:HG12	35:BZ:74:ARG:CD	2.41	0.48
3:A3:155:LEU:HD13	3:A3:163:LEU:HD13	1.95	0.48
10:AA:123:A:H3'	10:AA:124:U:H6	1.78	0.48
10:AA:504:A:OP2	13:AD:174:ARG:HG2	2.13	0.48
10:AA:623:U:C6	10:AA:623:U:C3'	2.96	0.48
10:AA:635:U:O2'	10:AA:636:G:H5'	2.14	0.48
10:AA:746:A:C4	10:AA:747:G:C8	3.01	0.48
10:AA:905:C:O2'	20:AK:138:ASP:HB2	2.13	0.48
10:AA:1256:C:O2'	10:AA:1257:U:OP2	2.26	0.48
10:AA:1279:U:H2'	10:AA:1280:G:H5'	1.96	0.48
10:AA:1454:A:C6	10:AA:1455:A:C6	3.02	0.48
10:AA:1580:U:H2'	10:AA:1581:U:C6	2.49	0.48
10:AA:1736:C:H2'	10:AA:1737:C:C6	2.49	0.48
12:AC:156:LYS:HE3	12:AC:160:MET:HG2	1.96	0.48
13:AD:40:ARG:O	13:AD:41:GLU:C	2.57	0.48
13:AD:71:PHE:CE2	32:AW:250:ILE:CG2	2.97	0.48
14:AE:33:LEU:HD22	14:AE:53:ILE:CG2	2.44	0.48
14:AE:189:LEU:CD2	14:AE:219:LEU:HD11	2.43	0.48
16:AG:107:PHE:HA	16:AG:172:ILE:HG23	1.96	0.48
17:AH:97:ARG:O	17:AH:98:GLN:HG2	2.13	0.48
21:AL:29:PHE:CZ	21:AL:33:LEU:HD12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AL:69:LYS:NZ	21:AL:92:LEU:HB3	2.29	0.48
22:AM:18:LEU:HB2	22:AM:21:ASN:HD22	1.79	0.48
27:AR:22:ASP:HB3	27:AR:47:ARG:HB2	1.96	0.48
27:AR:255:GLY:N	27:AR:279:LYS:HE3	2.28	0.48
31:AV:103:LYS:HE3	31:AV:118:VAL:HG21	1.94	0.48
32:AW:216:LYS:O	32:AW:216:LYS:HG2	2.13	0.48
35:AZ:18:ASN:O	35:AZ:21:LYS:N	2.47	0.48
2:B2:39:THR:HG22	2:B2:39:THR:O	2.14	0.48
2:B2:64:ARG:HH22	10:BA:323:U:P	2.36	0.48
5:B5:57:LEU:CG	5:B5:58:ALA:N	2.76	0.48
6:B6:31:MET:HE1	6:B6:77:PHE:HD2	1.78	0.48
9:B9:105:ASN:O	9:B9:107:GLY:N	2.47	0.48
10:BA:98:U:H3'	10:BA:98:U:H6	1.78	0.48
10:BA:193:C:H2'	10:BA:194:G:H8	1.79	0.48
10:BA:240:G:N2	10:BA:248:A:H1'	2.28	0.48
10:BA:425:A:N1	10:BA:426:G:N3	2.61	0.48
10:BA:427:A:C6	10:BA:428:A:C2	3.02	0.48
10:BA:466:A:N6	13:BD:40:ARG:HH22	2.08	0.48
10:BA:494:A:H2'	10:BA:495:C:H4'	1.95	0.48
10:BA:645:C:O2'	10:BA:646:A:H5'	2.14	0.48
10:BA:737:A:H8	10:BA:737:A:O5'	1.97	0.48
10:BA:772:A:H2	32:BW:250:ILE:HG21	1.79	0.48
10:BA:1063:A:O2'	10:BA:1064:A:P	2.72	0.48
10:BA:1159:U:H3	10:BA:1170:G:H1	1.62	0.48
10:BA:1299:C:H2'	10:BA:1300:G:H8	1.78	0.48
10:BA:1475:G:H2'	10:BA:1476:A:C8	2.49	0.48
10:BA:1482:C:O2'	29:BT:127:LYS:CD	2.52	0.48
10:BA:1523:U:H5"	28:BS:48:ARG:HH12	1.78	0.48
18:BI:41:ILE:HG22	18:BI:42:ASN:N	2.28	0.48
20:BK:106:LYS:NZ	20:BK:136:PRO:HD2	2.29	0.48
27:BR:57:TYR:HB3	27:BR:60:GLU:HB2	1.96	0.48
27:BR:186:TYR:HB2	27:BR:199:TRP:O	2.14	0.48
31:BV:47:ARG:HD2	31:BV:48:ASN:N	2.28	0.48
32:BW:52:LEU:HB3	32:BW:54:TYR:CD1	2.48	0.48
32:BW:101:PHE:HA	32:BW:114:LYS:O	2.13	0.48
35:BZ:14:THR:OG1	35:BZ:23:LYS:HE2	2.14	0.48
3:A3:93:PHE:HD2	3:A3:173:ILE:CD1	2.27	0.47
4:A4:34:PHE:CD2	4:A4:45:PHE:O	2.65	0.47
7:A7:11:ARG:C	7:A7:15:GLN:HE21	2.22	0.47
10:AA:14:C:O2	10:AA:613:A:H2	1.97	0.47
10:AA:77:G:H2'	10:AA:78:C:C6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:90:U:P	32:AW:3:ARG:HD2	2.53	0.47
10:AA:372:C:H5'	10:AA:372:C:C6	2.49	0.47
10:AA:760:G:N2	10:AA:766:G:N1	2.56	0.47
10:AA:770:G:OP1	32:AW:257:LYS:NZ	2.46	0.47
10:AA:829:U:H2'	10:AA:830:G:C8	2.50	0.47
10:AA:1027:U:C2'	10:AA:1028:G:C5'	2.91	0.47
10:AA:1044:C:H6	10:AA:1044:C:H5"	1.79	0.47
10:AA:1199:G:H5"	10:AA:1200:G:C3'	2.43	0.47
10:AA:1500:C:H5"	16:AG:86:LYS:HZ1	1.79	0.47
10:AA:1508:G:C2	10:AA:1510:U:N3	2.82	0.47
10:AA:1605:A:HO2'	10:AA:1606:C:P	2.32	0.47
11:AB:198:PHE:H	11:AB:198:PHE:HD1	1.62	0.47
12:AC:121:ALA:O	12:AC:125:ILE:HD12	2.13	0.47
16:AG:59:THR:C	16:AG:61:CYS:H	2.22	0.47
16:AG:95:ILE:HG21	16:AG:103:PRO:CB	2.43	0.47
16:AG:152:GLY:HA2	16:AG:184:TRP:HD1	1.78	0.47
18:AI:98:TYR:CD1	18:AI:98:TYR:N	2.82	0.47
18:AI:142:LYS:HB3	18:AI:144:TYR:HE1	1.78	0.47
20:AK:30:VAL:HG12	20:AK:30:VAL:O	2.14	0.47
21:AL:52:VAL:HG22	21:AL:71:VAL:HG11	1.96	0.47
22:AM:41:ARG:NE	29:AT:41:THR:HG22	2.29	0.47
22:AM:54:PRO:HG2	22:AM:55:ASN:N	2.24	0.47
24:AO:141:TRP:C	24:AO:142:LYS:HG3	2.38	0.47
26:AQ:74:VAL:HG13	26:AQ:83:VAL:CG1	2.44	0.47
27:AR:57:TYR:HB3	27:AR:60:GLU:HB2	1.96	0.47
30:AU:124:LEU:O	30:AU:125:LYS:HG3	2.14	0.47
32:AW:10:LYS:O	32:AW:13:ASN:N	2.45	0.47
32:AW:71:ASN:HA	32:AW:95:GLU:HB3	1.96	0.47
32:AW:88:LEU:HD12	32:AW:104:LEU:HD23	1.95	0.47
32:AW:95:GLU:O	32:AW:97:THR:N	2.47	0.47
4:B4:75:LEU:O	4:B4:79:SER:CB	2.62	0.47
5:B5:69:LEU:HD11	20:BK:108:PRO:HD3	1.95	0.47
6:B6:9:ILE:HB	6:B6:12:GLU:CG	2.33	0.47
10:BA:77:G:H2'	10:BA:78:C:C6	2.48	0.47
10:BA:141:A:N6	10:BA:142:A:C5	2.82	0.47
10:BA:1014:A:C2	10:BA:1015:C:N1	2.82	0.47
10:BA:1511:A:C2'	10:BA:1512:G:OP2	2.62	0.47
10:BA:1515:A:N6	10:BA:1540:G:H1'	2.28	0.47
10:BA:1519:U:O2	10:BA:1519:U:H2'	2.13	0.47
10:BA:1532:U:H5	28:BS:45:LYS:NZ	2.10	0.47
11:BB:179:LYS:HE3	11:BB:191:TRP:HH2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BD:45:VAL:HG11	13:BD:101:ILE:HG23	1.94	0.47
15:BF:78:ARG:HH12	15:BF:100:GLY:CA	2.26	0.47
16:BG:70:THR:HB	16:BG:150:ILE:CD1	2.44	0.47
18:BI:27:GLY:H	18:BI:65:LEU:HA	1.79	0.47
19:BJ:61:LEU:HD22	23:BN:33:TYR:OH	2.13	0.47
22:BM:1:MET:H3	22:BM:3:PHE:HE2	1.58	0.47
22:BM:9:SER:C	22:BM:11:PHE:N	2.72	0.47
23:BN:39:ARG:HH11	23:BN:39:ARG:HG2	1.79	0.47
25:BP:104:SER:HB3	25:BP:128:LYS:HE3	1.96	0.47
27:BR:269:TRP:HB3	27:BR:281:PHE:O	2.14	0.47
29:BT:72:PRO:O	29:BT:73:HIS:CB	2.61	0.47
34:BY:231:SER:O	34:BY:235:VAL:HG23	2.14	0.47
5:A5:58:ALA:CB	20:AK:125:LYS:HB3	2.42	0.47
7:A7:12:ILE:O	7:A7:13:TYR:C	2.58	0.47
8:A8:34:LYS:HD2	8:A8:36:LYS:H	1.79	0.47
9:A9:86:THR:CG2	9:A9:87:LYS:H	2.24	0.47
9:A9:97:ALA:HB1	30:AU:29:LEU:HD13	1.95	0.47
10:AA:246:U:H2'	26:AQ:62:ASN:HD22	1.78	0.47
10:AA:445:U:O2	10:AA:445:U:C2'	2.61	0.47
10:AA:469:A:N6	10:AA:531:A:H2	2.12	0.47
10:AA:531:A:C8	10:AA:536:C:N4	2.81	0.47
10:AA:844:G:C2'	10:AA:845:G:H5'	2.44	0.47
10:AA:898:U:O2'	10:AA:899:U:H5'	2.14	0.47
10:AA:935:G:C5	10:AA:936:U:C5	3.01	0.47
10:AA:1100:U:H2'	10:AA:1101:C:H5'	1.95	0.47
10:AA:1394:U:OP1	12:AC:154:LYS:NZ	2.46	0.47
10:AA:1558:A:C5	10:AA:1583:A:C6	3.02	0.47
10:AA:1566:G:N1	10:AA:1572:A:N6	2.62	0.47
11:AB:31:ARG:HG3	11:AB:31:ARG:HH11	1.79	0.47
11:AB:165:GLU:CD	11:AB:165:GLU:H	2.22	0.47
12:AC:105:VAL:HG22	12:AC:189:VAL:CG2	2.43	0.47
13:AD:113:VAL:HB	13:AD:125:SER:OG	2.14	0.47
14:AE:207:THR:HG22	14:AE:207:THR:O	2.12	0.47
14:AE:224:ARG:CD	35:AZ:40:PHE:CZ	2.93	0.47
20:AK:103:VAL:HG12	20:AK:142:ARG:CD	2.45	0.47
25:AP:98:LYS:N	25:AP:98:LYS:CD	2.68	0.47
26:AQ:56:LYS:HD3	26:AQ:130:ILE:HG21	1.95	0.47
27:AR:241:ASP:O	27:AR:245:LEU:CD2	2.61	0.47
31:AV:29:HIS:HA	31:AV:32:LYS:CD	2.32	0.47
32:AW:108:LYS:HG3	32:AW:110:ARG:NH2	2.27	0.47
32:AW:181:ASN:O	32:AW:196:ILE:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AX:7:THR:HG22	33:AX:8:LEU:H	1.78	0.47
33:AX:47:PRO:O	33:AX:51:ALA:HB2	2.14	0.47
2:B2:22:ARG:CD	2:B2:25:ARG:CZ	2.91	0.47
3:B3:174:TYR:CD2	3:B3:182:VAL:HG21	2.49	0.47
4:B4:90:VAL:HG23	4:B4:104:TYR:CB	2.44	0.47
4:B4:124:ILE:HB	4:B4:144:ALA:HB3	1.94	0.47
5:B5:15:ARG:HB3	10:BA:915:C:N4	2.29	0.47
6:B6:22:LEU:HA	17:BH:60:LYS:HZ2	1.78	0.47
7:B7:55:LEU:HG	7:B7:66:TYR:HB3	1.96	0.47
8:B8:27:LYS:HD3	8:B8:27:LYS:H	1.78	0.47
10:BA:133:A:C5'	10:BA:134:C:H5'	2.44	0.47
10:BA:272:U:H2'	10:BA:273:A:C5'	2.45	0.47
10:BA:499:A:H5"	10:BA:500:U:OP2	2.14	0.47
10:BA:620:U:O2'	10:BA:621:C:H5'	2.13	0.47
10:BA:757:C:H2'	10:BA:758:A:O4'	2.14	0.47
10:BA:837:A:C4	24:BO:75:ARG:NH2	2.82	0.47
10:BA:900:A:H2'	10:BA:901:A:C8	2.49	0.47
10:BA:941:A:O4'	10:BA:941:A:OP2	2.32	0.47
10:BA:1139:G:H1	10:BA:1550:U:H3	1.63	0.47
10:BA:1198:A:N3	10:BA:1228:A:H2	2.13	0.47
10:BA:1288:C:OP1	31:BV:7:LYS:HB2	2.14	0.47
10:BA:1376:A:OP1	16:BG:55:LYS:HE2	2.14	0.47
10:BA:1486:U:H5"	10:BA:1487:A:O5'	2.14	0.47
10:BA:1584:U:C2'	10:BA:1585:U:H5'	2.43	0.47
10:BA:1651:G:H1'	10:BA:1674:A:H62	1.78	0.47
10:BA:1657:G:H2'	10:BA:1658:A:H8	1.78	0.47
10:BA:1713:G:H1'	10:BA:1734:A:H2	1.79	0.47
12:BC:5:THR:HG22	12:BC:6:ARG:N	2.28	0.47
12:BC:213:VAL:HG22	31:BV:40:GLN:O	2.14	0.47
13:BD:113:VAL:HB	13:BD:125:SER:OG	2.14	0.47
14:BE:155:ILE:HD11	14:BE:197:ILE:HG21	1.97	0.47
14:BE:184:ILE:CG2	14:BE:212:LEU:CD2	2.92	0.47
15:BF:26:ARG:HG3	15:BF:32:PHE:CZ	2.49	0.47
16:BG:63:ILE:O	16:BG:66:ARG:HB2	2.14	0.47
21:BL:71:VAL:CG2	21:BL:95:LEU:HD13	2.36	0.47
22:BM:87:ASN:CG	22:BM:99:GLN:NE2	2.73	0.47
22:BM:93:LYS:HE2	28:BS:41:LEU:CD2	2.44	0.47
28:BS:85:TYR:H	28:BS:85:TYR:HD1	1.61	0.47
31:BV:83:ASP:C	31:BV:84:TYR:HD1	2.22	0.47
31:BV:101:GLU:O	31:BV:104:GLU:HB2	2.14	0.47
32:BW:129:THR:HB	32:BW:142:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:108:SER:O	2:A2:176:ILE:HG13	2.14	0.47
2:A2:179:ARG:HD3	2:A2:182:GLN:HG3	1.95	0.47
3:A3:102:SER:OG	3:A3:105:VAL:HB	2.13	0.47
4:A4:130:CYS:HB3	4:A4:182:ALA:CB	2.44	0.47
7:A7:100:ILE:HD13	12:AC:62:ILE:HD11	1.95	0.47
9:A9:146:UNK:O	9:A9:146:UNK:HG3	2.13	0.47
10:AA:86:C:H2'	10:AA:87:G:H5'	1.96	0.47
10:AA:141:A:N6	10:AA:142:A:C5	2.82	0.47
10:AA:311:U:O2'	10:AA:312:C:C5	2.62	0.47
10:AA:514:G:C2'	10:AA:515:U:H5'	2.44	0.47
10:AA:645:C:O2'	10:AA:646:A:H5'	2.14	0.47
10:AA:728:U:H2'	10:AA:729:U:H5'	1.95	0.47
10:AA:764:U:C4'	10:AA:765:A:O5'	2.61	0.47
10:AA:777:U:O2	10:AA:777:U:C2'	2.61	0.47
10:AA:1168:A:H2'	10:AA:1574:C:O2'	2.14	0.47
10:AA:1359:C:O2	10:AA:1359:C:C2'	2.61	0.47
10:AA:1439:U:H5'	29:AT:91:ASN:O	2.14	0.47
10:AA:1580:U:H5'	18:AI:74:SER:HB2	1.95	0.47
14:AE:35:ARG:NH2	14:AE:252:ALA:H	2.10	0.47
14:AE:107:ASP:C	14:AE:109:ASN:N	2.58	0.47
16:AG:193:GLU:O	16:AG:197:LYS:N	2.46	0.47
17:AH:95:PRO:HD3	17:AH:130:TYR:CD2	2.48	0.47
20:AK:104:GLU:O	20:AK:105:THR:C	2.58	0.47
21:AL:131:LEU:O	21:AL:134:LEU:N	2.48	0.47
27:AR:67:ILE:HG23	27:AR:68:PRO:HD2	1.95	0.47
27:AR:272:VAL:O	27:AR:278:VAL:HG13	2.14	0.47
28:AS:46:THR:CG2	28:AS:89:ILE:HD13	2.42	0.47
31:AV:114:ILE:HG22	31:AV:115:PRO:HD3	1.96	0.47
32:AW:127:LYS:O	32:AW:143:THR:HG23	2.15	0.47
34:AY:149:LYS:O	34:AY:151:ASP:N	2.48	0.47
2:B2:109:ILE:HD13	2:B2:199:TYR:CD2	2.49	0.47
2:B2:162:ASN:O	2:B2:166:GLN:HG2	2.14	0.47
3:B3:127:LEU:HG	3:B3:174:TYR:CZ	2.48	0.47
4:B4:34:PHE:CD2	4:B4:45:PHE:O	2.64	0.47
4:B4:174:ILE:O	4:B4:178:ILE:HG13	2.14	0.47
9:B9:128:HIS:CE1	10:BA:1222:U:H1'	2.49	0.47
10:BA:80:A:C2'	10:BA:81:A:O4'	2.62	0.47
10:BA:246:U:H5"	10:BA:247:C:OP2	2.15	0.47
10:BA:426:G:C5'	21:BL:77:LYS:HB2	2.45	0.47
10:BA:685:A:H2	10:BA:716:G:O6	1.96	0.47
10:BA:837:A:O2'	10:BA:838:U:OP1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:923:U:O5'	10:BA:923:U:H6	1.96	0.47
10:BA:955:A:H2	10:BA:956:A:N3	2.11	0.47
10:BA:1122:G:H1	10:BA:1600:U:H3	1.62	0.47
10:BA:1123:G:H1	10:BA:1720:G:H4'	1.79	0.47
10:BA:1163:U:H2'	10:BA:1164:C:C6	2.49	0.47
10:BA:1290:G:HO2'	10:BA:1291:U:H5'	1.79	0.47
10:BA:1613:C:H2'	10:BA:1614:G:C8	2.49	0.47
11:BB:2:ALA:HB1	35:BZ:97:GLU:CG	2.44	0.47
11:BB:156:VAL:CG2	35:BZ:80:HIS:CB	2.93	0.47
11:BB:168:SER:HB2	11:BB:198:PHE:HB2	1.95	0.47
13:BD:171:ARG:HG2	13:BD:175:LYS:HZ2	1.79	0.47
14:BE:102:PHE:CD2	14:BE:116:TRP:HB3	2.49	0.47
17:BH:46:TYR:C	17:BH:66:ILE:HD12	2.38	0.47
17:BH:56:HIS:CE1	24:BO:22:ARG:NE	2.82	0.47
17:BH:103:VAL:C	17:BH:104:LEU:HD23	2.39	0.47
25:BP:107:GLU:O	25:BP:110:ARG:CB	2.56	0.47
26:BQ:74:VAL:HG13	26:BQ:83:VAL:CG1	2.44	0.47
26:BQ:138:ALA:C	26:BQ:139:LEU:HD23	2.39	0.47
27:BR:47:ARG:C	27:BR:49:LYS:H	2.21	0.47
28:BS:42:PHE:CD2	28:BS:118:GLY:HA2	2.49	0.47
31:BV:102:THR:HG22	31:BV:106:LEU:HD11	1.97	0.47
2:A2:128:ASP:O	2:A2:129:LEU:CB	2.62	0.47
2:A2:129:LEU:O	2:A2:168:VAL:HG22	2.14	0.47
3:A3:13:THR:O	3:A3:14:LYS:C	2.57	0.47
3:A3:178:THR:HB	3:A3:179:THR:H	1.52	0.47
8:A8:60:VAL:HG12	8:A8:68:THR:HB	1.96	0.47
9:A9:85:LYS:CG	9:A9:86:THR:N	2.74	0.47
9:A9:152:UNK:HA	9:A9:155:UNK:CG	2.43	0.47
10:AA:18:C:H4'	10:AA:1110:A:N6	2.29	0.47
10:AA:101:A:H2'	10:AA:102:A:C8	2.50	0.47
10:AA:232:G:H2'	10:AA:233:U:O4'	2.15	0.47
10:AA:306:A:O2'	10:AA:307:G:O4'	2.28	0.47
10:AA:327:G:O2'	10:AA:328:G:H5"	2.13	0.47
10:AA:431:U:N1	10:AA:457:G:N2	2.63	0.47
10:AA:537:A:O2'	10:AA:538:A:O5'	2.33	0.47
10:AA:597:U:H2'	10:AA:598:A:C8	2.49	0.47
10:AA:604:G:O2'	10:AA:605:U:OP2	2.31	0.47
10:AA:653:U:H3	10:AA:656:G:N2	2.12	0.47
10:AA:730:A:C2	10:AA:731:C:C2	3.03	0.47
10:AA:761:U:H4'	10:AA:762:U:C5'	2.44	0.47
10:AA:765:A:HO2'	10:AA:766:G:P	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:877:G:N2	10:AA:878:A:N3	2.62	0.47
10:AA:1266:G:H1	10:AA:1275:U:H3	1.63	0.47
10:AA:1385:U:C2'	10:AA:1386:U:OP1	2.63	0.47
10:AA:1585:U:H5	16:AG:52:GLN:HE22	1.61	0.47
12:AC:24:LEU:O	12:AC:28:PHE:HD2	1.97	0.47
12:AC:140:ILE:HB	12:AC:188:LYS:HB2	1.97	0.47
13:AD:150:THR:HG22	13:AD:151:ASP:N	2.29	0.47
14:AE:41:LYS:O	14:AE:42:ILE:CG1	2.53	0.47
14:AE:142:LYS:HB3	14:AE:152:ALA:HB1	1.96	0.47
15:AF:36:GLU:HB3	15:AF:70:VAL:CG2	2.37	0.47
16:AG:62:PRO:O	16:AG:65:GLU:N	2.44	0.47
19:AJ:21:ILE:HD11	19:AJ:91:LEU:HD11	1.97	0.47
24:AO:43:ALA:CB	24:AO:82:CYS:SG	3.03	0.47
24:AO:141:TRP:O	24:AO:142:LYS:HG3	2.13	0.47
27:AR:128:PRO:CB	27:AR:173:ILE:HD12	2.44	0.47
27:AR:134:LEU:HD11	27:AR:203:PHE:CZ	2.49	0.47
27:AR:264:ASN:C	27:AR:266:LYS:H	2.20	0.47
29:AT:29:ALA:HB1	29:AT:31:LYS:HE3	1.97	0.47
32:AW:56:LEU:HB3	32:AW:57:ASN:H	1.58	0.47
32:AW:188:GLY:H	32:AW:191:ILE:CG2	2.27	0.47
1:B1:29:VAL:HG23	1:B1:41:LEU:O	2.15	0.47
3:B3:66:HIS:ND1	3:B3:67:PHE:N	2.62	0.47
3:B3:144:ARG:NH2	35:BZ:3:SER:HB2	2.04	0.47
4:B4:50:VAL:CG1	4:B4:51:THR:N	2.77	0.47
4:B4:123:LEU:HD12	4:B4:124:ILE:H	1.78	0.47
5:B5:44:MET:HA	5:B5:44:MET:CE	2.38	0.47
6:B6:46:SER:C	6:B6:47:ASN:ND2	2.68	0.47
9:B9:131:ARG:HD2	9:B9:140:THR:HG22	1.96	0.47
10:BA:14:C:O2	10:BA:14:C:H2'	2.15	0.47
10:BA:43:U:O2'	10:BA:44:U:OP1	2.26	0.47
10:BA:64:U:H5	10:BA:79:G:N1	2.12	0.47
10:BA:106:U:OP1	10:BA:736:A:O2'	2.32	0.47
10:BA:306:A:C1'	10:BA:344:A:N6	2.77	0.47
10:BA:306:A:N6	10:BA:343:C:O2	2.47	0.47
10:BA:309:U:C2'	10:BA:310:C:C5'	2.84	0.47
10:BA:350:A:H5"	10:BA:351:A:H5"	1.96	0.47
10:BA:477:G:C2	10:BA:496:G:N3	2.82	0.47
10:BA:751:U:O5'	10:BA:751:U:H6	1.98	0.47
10:BA:844:G:C2'	10:BA:845:G:H5'	2.43	0.47
10:BA:981:A:O2'	10:BA:982:U:C5'	2.61	0.47
10:BA:1057:G:N2	10:BA:1061:U:N3	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1155:A:N6	28:BS:104:GLY:HA3	2.30	0.47
10:BA:1168:A:H2'	10:BA:1574:C:O2'	2.14	0.47
10:BA:1441:C:H3'	10:BA:1442:A:H5'	1.95	0.47
11:BB:148:SER:O	11:BB:150:LEU:N	2.47	0.47
12:BC:14:PHE:O	12:BC:17:ASP:HB2	2.14	0.47
14:BE:233:LYS:CD	14:BE:234:PRO:HD2	2.44	0.47
15:BF:48:MET:HE3	15:BF:71:ILE:CG1	2.43	0.47
26:BQ:52:TYR:CD1	26:BQ:52:TYR:C	2.92	0.47
26:BQ:146:ILE:HG23	26:BQ:153:GLN:NE2	2.22	0.47
28:BS:32:LYS:O	28:BS:34:ILE:N	2.47	0.47
32:BW:10:LYS:O	32:BW:11:ARG:C	2.57	0.47
32:BW:72:VAL:O	32:BW:72:VAL:HG23	2.13	0.47
32:BW:240:LEU:HD12	32:BW:245:GLY:H	1.79	0.47
35:BZ:31:LYS:NZ	35:BZ:36:ASN:HD21	2.12	0.47
4:A4:66:ARG:NH1	20:AK:48:SER:OG	2.47	0.47
8:A8:32:LYS:N	15:BF:42:PHE:HA	2.28	0.47
10:AA:9:U:C2	10:AA:11:A:H5"	2.50	0.47
10:AA:24:C:H2'	10:AA:25:A:C8	2.49	0.47
10:AA:73:A:C6	34:AY:162:ARG:NH1	2.83	0.47
10:AA:98:U:H3'	10:AA:98:U:C6	2.49	0.47
10:AA:302:U:O2'	10:AA:303:A:H5"	2.15	0.47
10:AA:312:C:C4'	10:AA:313:G:O5'	2.57	0.47
10:AA:341:G:O4'	10:AA:343:C:O2	2.33	0.47
10:AA:455:C:H6	10:AA:455:C:C5'	2.20	0.47
10:AA:577:C:H2'	10:AA:577:C:O2	2.14	0.47
10:AA:1004:A:H4'	10:AA:1006:C:C4	2.49	0.47
10:AA:1017:C:H2'	10:AA:1018:G:C5'	2.44	0.47
10:AA:1155:A:N6	10:AA:1156:A:N6	2.63	0.47
10:AA:1225:U:OP2	30:AU:30:HIS:HE1	1.98	0.47
10:AA:1352:A:O2'	10:AA:1353:G:O5'	2.28	0.47
10:AA:1402:C:OP1	10:AA:1403:U:H3'	2.14	0.47
10:AA:1608:C:C4'	10:AA:1609:C:C5'	2.84	0.47
10:AA:1613:C:H2'	10:AA:1614:G:C8	2.48	0.47
14:AE:27:TRP:CE2	14:AE:59:GLU:HB2	2.50	0.47
14:AE:44:SER:HB2	14:AE:47:GLU:HB2	1.94	0.47
15:AF:26:ARG:HG3	15:AF:32:PHE:CZ	2.49	0.47
15:AF:42:PHE:HD2	8:B8:31:THR:OG1	1.98	0.47
15:AF:55:LEU:O	15:AF:56:SER:HB2	2.14	0.47
15:AF:75:GLY:O	15:AF:76:ASP:HB2	2.13	0.47
18:AI:55:LEU:HD23	18:AI:55:LEU:N	2.29	0.47
18:AI:62:PHE:C	18:AI:62:PHE:CD1	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AJ:20:ARG:O	19:AJ:114:LEU:HA	2.15	0.47
21:AL:113:VAL:O	21:AL:114:GLY:C	2.58	0.47
23:AN:31:THR:HG22	23:AN:31:THR:O	2.13	0.47
25:AP:27:HIS:N	25:AP:28:PRO:CD	2.77	0.47
27:AR:139:GLU:O	27:AR:140:ARG:HB2	2.14	0.47
27:AR:159:GLU:HB3	27:AR:199:TRP:CH2	2.50	0.47
27:AR:299:ILE:HG13	27:AR:330:ASP:HB2	1.95	0.47
29:AT:45:VAL:H	29:AT:100:HIS:CE1	2.32	0.47
32:AW:91:VAL:HA	32:AW:101:PHE:O	2.15	0.47
32:AW:215:ALA:C	32:AW:217:GLY:N	2.72	0.47
34:AY:145:PHE:N	34:AY:145:PHE:CD1	2.82	0.47
2:B2:73:PHE:HA	2:B2:188:GLY:O	2.14	0.47
2:B2:145:ARG:HH21	10:BA:191:A:N6	2.12	0.47
3:B3:26:LEU:HD23	3:B3:87:LYS:NZ	2.30	0.47
8:B8:30:TRP:O	8:B8:31:THR:OG1	2.24	0.47
10:BA:533:G:C2'	10:BA:534:A:C5'	2.93	0.47
10:BA:551:U:O4	33:BX:62:TRP:HB2	2.14	0.47
10:BA:570:G:O4'	10:BA:574:A:H2	1.97	0.47
10:BA:679:U:H2'	10:BA:680:U:O4'	2.14	0.47
10:BA:761:U:O2'	10:BA:762:U:C5'	2.63	0.47
10:BA:761:U:H3	10:BA:764:U:H2'	1.77	0.47
10:BA:876:A:HO2'	10:BA:877:G:P	2.37	0.47
10:BA:996:U:OP1	24:BO:109:LYS:NZ	2.46	0.47
10:BA:1021:A:H2'	10:BA:1022:U:O4'	2.15	0.47
10:BA:1556:G:HO2'	10:BA:1582:G:H1	1.61	0.47
10:BA:1714:U:HO2'	10:BA:1715:A:H5'	1.78	0.47
11:BB:121:THR:CG2	11:BB:143:LEU:HD12	2.44	0.47
13:BD:105:MET:HE2	13:BD:108:ARG:HD2	1.96	0.47
19:BJ:19:VAL:HG21	19:BJ:98:VAL:HG21	1.96	0.47
19:BJ:27:ASN:ND2	19:BJ:29:LYS:HD2	2.29	0.47
22:BM:18:LEU:HD21	22:BM:70:THR:HG23	1.97	0.47
22:BM:123:ARG:HH11	22:BM:123:ARG:CG	2.28	0.47
27:BR:221:ILE:HG12	27:BR:228:ILE:HG12	1.95	0.47
29:BT:15:ALA:HB3	29:BT:66:ARG:CZ	2.44	0.47
29:BT:45:VAL:H	29:BT:100:HIS:CE1	2.32	0.47
30:BU:48:GLU:C	30:BU:50:CYS:H	2.22	0.47
7:A7:63:PHE:CE2	12:AC:79:ARG:HD2	2.48	0.47
8:A8:46:GLU:HB2	22:AM:7:LYS:CE	2.42	0.47
10:AA:1:A:H4'	10:AA:1:A:OP3	2.14	0.47
10:AA:181:G:N2	10:AA:194:G:C4	2.82	0.47
10:AA:350:A:H5"	10:AA:351:A:H5'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:463:A:C2	10:AA:464:G:C8	3.03	0.47
10:AA:466:A:H4'	13:AD:130:ARG:NH2	2.30	0.47
10:AA:477:G:C6	10:AA:496:G:C2	3.03	0.47
10:AA:589:G:C6	10:AA:590:C:N4	2.82	0.47
10:AA:624:A:H2'	10:AA:625:G:H5'	1.96	0.47
10:AA:774:A:H2'	10:AA:775:C:C6	2.49	0.47
10:AA:781:C:H5'	10:AA:782:A:OP2	2.15	0.47
10:AA:849:A:H61	10:AA:933:A:N6	2.12	0.47
10:AA:866:U:C2'	10:AA:867:U:H5"	2.45	0.47
10:AA:894:U:OP1	10:AA:894:U:O4'	2.32	0.47
10:AA:934:U:C2'	10:AA:935:G:H5'	2.44	0.47
10:AA:1086:G:O2'	10:AA:1087:U:P	2.72	0.47
10:AA:1173:G:O2'	10:AA:1174:A:OP1	2.30	0.47
10:AA:1223:U:O2'	10:AA:1224:C:O5'	2.32	0.47
10:AA:1253:G:H5"	19:AJ:76:THR:OG1	2.15	0.47
10:AA:1286:U:O2'	10:AA:1287:U:OP2	2.31	0.47
10:AA:1560:G:O2'	10:AA:1561:U:H5'	2.14	0.47
13:AD:1:MET:HE2	13:AD:1:MET:N	2.29	0.47
14:AE:81:VAL:O	14:AE:82:LEU:HD23	2.14	0.47
14:AE:225:TYR:C	14:AE:225:TYR:CD1	2.92	0.47
15:AF:32:PHE:CE2	15:AF:72:LYS:HE2	2.49	0.47
20:AK:78:ALA:HB1	20:AK:119:LEU:CD1	2.45	0.47
21:AL:29:PHE:O	21:AL:33:LEU:HB2	2.14	0.47
24:AO:60:HIS:O	24:AO:62:ILE:N	2.48	0.47
27:AR:186:TYR:C	27:AR:186:TYR:CD1	2.92	0.47
28:AS:85:TYR:H	28:AS:85:TYR:HD1	1.63	0.47
29:AT:38:THR:C	29:AT:40:TRP:N	2.71	0.47
30:AU:42:LEU:O	30:AU:43:PHE:HB2	2.13	0.47
31:AV:89:SER:O	31:AV:91:ILE:N	2.48	0.47
34:AY:76:LEU:C	34:AY:77:LEU:HD23	2.40	0.47
34:AY:231:SER:O	34:AY:235:VAL:HG23	2.14	0.47
35:AZ:19:ASP:C	35:AZ:21:LYS:H	2.22	0.47
35:AZ:40:PHE:HB2	35:AZ:43:ASP:CB	2.27	0.47
2:B2:196:LEU:O	2:B2:197:GLU:C	2.58	0.47
9:B9:123:ILE:HD11	9:B9:136:LYS:HD2	1.95	0.47
10:BA:2:A:O2'	14:BE:199:THR:O	2.29	0.47
10:BA:319:A:P	26:BQ:55:LYS:HE3	2.54	0.47
10:BA:381:G:N2	10:BA:398:A:C6	2.83	0.47
10:BA:554:U:H2'	10:BA:555:G:H8	1.80	0.47
10:BA:653:U:H3	10:BA:656:G:N2	2.12	0.47
10:BA:761:U:C5	10:BA:764:U:N3	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:782:A:H3'	10:BA:782:A:C8	2.49	0.47
10:BA:1136:G:O2'	10:BA:1137:A:H5'	2.14	0.47
10:BA:1580:U:H2'	10:BA:1581:U:H6	1.79	0.47
10:BA:1608:C:N3	10:BA:1610:G:N3	2.62	0.47
11:BB:2:ALA:CB	35:BZ:97:GLU:HB2	2.44	0.47
13:BD:38:ASN:HD22	13:BD:40:ARG:HG2	1.80	0.47
14:BE:81:VAL:CG1	14:BE:82:LEU:N	2.77	0.47
14:BE:224:ARG:HD2	35:BZ:40:PHE:CZ	2.43	0.47
16:BG:47:THR:O	16:BG:47:THR:HG22	2.14	0.47
17:BH:121:THR:HG22	17:BH:122:GLY:O	2.15	0.47
18:BI:46:LEU:O	18:BI:49:LYS:HB2	2.14	0.47
18:BI:129:LYS:C	18:BI:130:LYS:HG3	2.40	0.47
26:BQ:41:PHE:CE2	26:BQ:139:LEU:HB2	2.50	0.47
26:BQ:57:CYS:SG	26:BQ:58:PRO:HD2	2.55	0.47
29:BT:41:THR:HG23	29:BT:50:ALA:CB	2.45	0.47
32:BW:71:ASN:HA	32:BW:95:GLU:HB3	1.97	0.47
34:BY:39:ASP:C	34:BY:41:LEU:N	2.68	0.47
1:A1:7:THR:HG21	1:A1:31:LEU:HD22	1.95	0.47
2:A2:66:LEU:HD23	2:A2:66:LEU:N	2.30	0.47
2:A2:80:ILE:HD11	2:A2:120:TRP:CZ3	2.50	0.47
2:A2:175:CYS:HB3	2:A2:189:TYR:CE1	2.50	0.47
3:A3:81:ILE:HG23	3:A3:92:VAL:HB	1.95	0.47
4:A4:85:ARG:HH22	4:A4:218:ILE:H	1.61	0.47
5:A5:44:MET:HA	5:A5:44:MET:CE	2.39	0.47
5:A5:45:VAL:HG12	5:A5:49:SER:HB3	1.96	0.47
8:A8:60:VAL:HG13	8:A8:72:LYS:HG3	1.97	0.47
9:A9:158:UNK:HA	9:A9:161:UNK:CG	2.44	0.47
9:A9:160:UNK:O	9:A9:164:UNK:HG3	2.14	0.47
10:AA:1:A:H2'	14:AE:180:VAL:HG12	1.95	0.47
10:AA:11:A:C2'	10:AA:12:U:H5'	2.45	0.47
10:AA:29:G:N2	10:AA:591:G:C4	2.83	0.47
10:AA:44:U:O2'	10:AA:45:A:OP1	2.26	0.47
10:AA:66:A:N6	10:AA:67:G:C2	2.83	0.47
10:AA:72:G:C2	10:AA:75:C:C4	3.03	0.47
10:AA:123:A:C3'	10:AA:124:U:H6	2.27	0.47
10:AA:126:A:N3	10:AA:126:A:H2'	2.29	0.47
10:AA:134:C:O2'	10:AA:135:A:P	2.72	0.47
10:AA:216:G:N2	10:AA:820:U:O2	2.47	0.47
10:AA:413:C:N4	34:AY:91:PHE:CZ	2.83	0.47
10:AA:457:G:O2'	10:AA:458:U:H5'	2.15	0.47
10:AA:538:A:H4'	10:AA:539:U:OP1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:572:U:H6	10:AA:572:U:O5'	1.98	0.47
10:AA:604:G:OP2	21:AL:19:ARG:HD2	2.15	0.47
10:AA:882:G:N7	10:AA:883:A:C5	2.83	0.47
10:AA:923:U:O5'	10:AA:923:U:H6	1.98	0.47
10:AA:987:U:C4	10:AA:988:C:C5	3.02	0.47
10:AA:1008:A:C4'	10:AA:1009:U:OP2	2.63	0.47
10:AA:1049:C:O2'	10:AA:1050:C:H5'	2.15	0.47
10:AA:1199:G:O2'	10:AA:1200:G:OP2	2.32	0.47
10:AA:1263:G:N2	10:AA:1296:G:N1	2.52	0.47
10:AA:1403:U:HO2'	10:AA:1404:G:P	2.34	0.47
10:AA:1421:G:O2'	23:AN:6:TRP:CB	2.63	0.47
10:AA:1500:C:C5'	16:AG:86:LYS:HZ1	2.27	0.47
10:AA:1504:U:C2'	10:AA:1505:C:H5'	2.45	0.47
10:AA:1529:U:O2	10:AA:1529:U:C2'	2.63	0.47
10:AA:1557:U:C4	10:AA:1583:A:N6	2.82	0.47
10:AA:1654:U:O2	10:AA:1672:G:C2	2.68	0.47
10:AA:1717:C:C2'	10:AA:1718:A:H5"	2.45	0.47
11:AB:31:ARG:NH1	35:AZ:84:GLU:OE1	2.43	0.47
14:AE:46:ASP:HA	14:AE:49:PHE:HD2	1.79	0.47
14:AE:56:LYS:HA	14:AE:56:LYS:CE	2.30	0.47
14:AE:239:LEU:HG	35:AZ:48:GLN:OE1	2.15	0.47
16:AG:16:LYS:HE3	16:AG:93:GLU:OE1	2.15	0.47
16:AG:45:PRO:HB2	16:AG:68:ILE:HD12	1.97	0.47
16:AG:47:THR:O	16:AG:48:ALA:C	2.56	0.47
17:AH:120:HIS:O	17:AH:120:HIS:CD2	2.68	0.47
18:AI:112:MET:HG2	18:AI:119:LEU:HD12	1.97	0.47
19:AJ:67:LYS:HE2	19:AJ:78:ASP:OD1	2.15	0.47
21:AL:75:LEU:HD11	21:AL:82:ILE:CD1	2.45	0.47
22:AM:87:ASN:CG	22:AM:99:GLN:NE2	2.73	0.47
23:AN:10:PRO:HB2	23:AN:12:ASN:HD22	1.80	0.47
24:AO:96:LYS:HG3	24:AO:97:ALA:N	2.29	0.47
25:AP:112:ILE:HG23	25:AP:120:ILE:HG23	1.95	0.47
26:AQ:17:LEU:C	26:AQ:20:LYS:HE2	2.39	0.47
26:AQ:18:ASN:HD22	26:AQ:18:ASN:N	2.11	0.47
26:AQ:128:ARG:HH11	26:AQ:128:ARG:HG2	1.79	0.47
27:AR:56:LEU:HD11	27:AR:65:PHE:CE2	2.50	0.47
27:AR:84:LEU:CD2	27:AR:91:ALA:HB2	2.44	0.47
27:AR:102:LEU:HG	27:AR:114:PHE:CE1	2.50	0.47
27:AR:249:GLN:O	27:AR:250:ARG:HB2	2.14	0.47
27:AR:297:GLU:N	27:AR:298:PRO:CD	2.78	0.47
29:AT:72:PRO:O	29:AT:73:HIS:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AU:27:LYS:H	30:AU:31:GLU:HG2	1.78	0.47
31:AV:5:ARG:HG2	31:AV:10:LYS:HE2	1.97	0.47
31:AV:35:LEU:CD2	31:AV:35:LEU:C	2.88	0.47
32:AW:49:LYS:HE3	32:AW:61:VAL:CG2	2.45	0.47
32:AW:106:ASP:O	32:AW:192:GLY:HA3	2.15	0.47
32:AW:126:LEU:HB3	32:AW:143:THR:CG2	2.45	0.47
32:AW:129:THR:N	32:AW:142:VAL:O	2.39	0.47
32:AW:215:ALA:O	32:AW:217:GLY:N	2.48	0.47
34:AY:14:LYS:HG3	34:AY:15:CYS:N	2.30	0.47
34:AY:215:PHE:CZ	34:AY:219:TRP:HB2	2.50	0.47
35:AZ:30:ARG:HH21	35:AZ:39:ILE:HG21	1.79	0.47
2:B2:21:HIS:CD2	2:B2:21:HIS:H	2.32	0.47
2:B2:91:TYR:HD2	2:B2:109:ILE:CD1	2.27	0.47
2:B2:197:GLU:O	2:B2:201:ARG:HG3	2.14	0.47
3:B3:129:ASP:O	3:B3:132:LEU:CB	2.59	0.47
4:B4:199:TYR:N	4:B4:199:TYR:CD1	2.82	0.47
5:B5:83:SER:C	5:B5:85:VAL:H	2.23	0.47
7:B7:91:THR:HG21	12:BC:71:GLU:HG2	1.97	0.47
8:B8:47:LYS:HD2	8:B8:48:LYS:HG3	1.95	0.47
10:BA:3:C:O2'	14:BE:182:ALA:N	2.47	0.47
10:BA:11:A:H1'	14:BE:88:GLN:O	2.14	0.47
10:BA:15:U:C2'	10:BA:16:G:H5'	2.45	0.47
10:BA:58:G:O4'	10:BA:444:A:C8	2.68	0.47
10:BA:149:U:H4'	34:BY:59:ASP:HA	1.97	0.47
10:BA:194:G:O2'	10:BA:195:G:H5'	2.15	0.47
10:BA:303:A:C2	10:BA:305:C:C2	3.03	0.47
10:BA:306:A:O2'	10:BA:307:G:O4'	2.27	0.47
10:BA:329:A:P	26:BQ:132:LYS:HG2	2.54	0.47
10:BA:343:C:O2'	10:BA:344:A:P	2.72	0.47
10:BA:425:A:H2'	10:BA:426:G:O4'	2.15	0.47
10:BA:430:A:O2'	10:BA:431:U:P	2.73	0.47
10:BA:435:C:H4'	10:BA:518:A:C2	2.49	0.47
10:BA:435:C:H2'	10:BA:436:C:O4'	2.15	0.47
10:BA:449:G:O2'	10:BA:450:G:H5'	2.14	0.47
10:BA:533:G:H2'	10:BA:534:A:C5'	2.45	0.47
10:BA:633:U:O2'	10:BA:634:C:P	2.72	0.47
10:BA:729:U:C2	10:BA:789:A:C2	3.02	0.47
10:BA:761:U:C4	10:BA:764:U:O2	2.68	0.47
10:BA:786:A:HO2'	10:BA:787:A:P	2.36	0.47
10:BA:829:U:H2'	10:BA:830:G:C8	2.49	0.47
10:BA:955:A:H2'	10:BA:956:A:O4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:987:U:C4	10:BA:988:C:C5	3.03	0.47
10:BA:1036:U:H5"	10:BA:1037:G:OP2	2.15	0.47
10:BA:1044:C:H6	10:BA:1044:C:H5"	1.79	0.47
10:BA:1088:A:O2'	10:BA:1089:U:P	2.72	0.47
10:BA:1231:C:O2'	10:BA:1232:U:H5'	2.14	0.47
10:BA:1262:U:H5'	14:BE:96:ARG:NH2	2.29	0.47
10:BA:1279:U:H2'	10:BA:1280:G:H5'	1.96	0.47
10:BA:1580:U:H5"	18:BI:74:SER:CB	2.44	0.47
12:BC:104:GLN:HE21	12:BC:129:VAL:HG22	1.79	0.47
12:BC:121:ALA:O	12:BC:125:ILE:HD12	2.15	0.47
12:BC:129:VAL:HG12	12:BC:134:ALA:CB	2.44	0.47
12:BC:163:THR:CG2	12:BC:164:GLY:N	2.77	0.47
12:BC:229:THR:HG22	12:BC:231:VAL:HG23	1.95	0.47
14:BE:220:ALA:C	14:BE:222:THR:N	2.71	0.47
16:BG:54:LYS:HB3	16:BG:57:ARG:HG2	1.96	0.47
16:BG:81:LYS:O	16:BG:85:ILE:HG13	2.15	0.47
17:BH:15:VAL:C	17:BH:17:ALA:N	2.71	0.47
17:BH:95:PRO:HD3	17:BH:130:TYR:CD2	2.49	0.47
18:BI:58:GLY:C	18:BI:60:GLN:N	2.72	0.47
21:BL:29:PHE:O	21:BL:33:LEU:HB2	2.14	0.47
22:BM:130:GLY:O	22:BM:131:LEU:HD23	2.15	0.47
23:BN:13:TYR:CD1	23:BN:13:TYR:N	2.82	0.47
25:BP:27:HIS:N	25:BP:28:PRO:CD	2.78	0.47
25:BP:108:LEU:O	25:BP:112:ILE:HG13	2.14	0.47
25:BP:146:PHE:O	25:BP:147:VAL:HG23	2.14	0.47
25:BP:148:ALA:O	25:BP:149:LYS:C	2.57	0.47
27:BR:15:GLY:CA	27:BR:65:PHE:HB2	2.37	0.47
27:BR:76:ASN:O	27:BR:76:ASN:OD1	2.33	0.47
27:BR:114:PHE:CZ	27:BR:133:ILE:HD13	2.50	0.47
27:BR:139:GLU:O	27:BR:140:ARG:HB2	2.14	0.47
27:BR:218:HIS:HD2	27:BR:261:ILE:H	1.63	0.47
27:BR:258:ILE:HG23	27:BR:272:VAL:HG13	1.97	0.47
27:BR:289:ALA:N	27:BR:290:PRO:CD	2.77	0.47
28:BS:38:LEU:HA	28:BS:41:LEU:HD12	1.97	0.47
28:BS:73:PRO:C	28:BS:75:GLY:N	2.67	0.47
29:BT:27:LYS:HG2	29:BT:58:TYR:CD2	2.50	0.47
31:BV:17:ILE:CD1	31:BV:58:MET:HE3	2.44	0.47
32:BW:129:THR:N	32:BW:142:VAL:O	2.41	0.47
34:BY:44:GLU:O	34:BY:119:ALA:HB1	2.14	0.47
2:A2:66:LEU:C	2:A2:67:ARG:HG2	2.39	0.47
2:A2:159:LEU:O	2:A2:160:GLU:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:135:THR:HB	24:AO:23:ARG:NH1	2.29	0.47
5:A5:75:TYR:HB3	5:A5:80:ALA:HB2	1.96	0.47
5:A5:87:ARG:NH1	10:AA:1126:C:H5"	2.30	0.47
7:A7:77:LYS:HA	7:A7:84:ALA:HB3	1.96	0.47
10:AA:26:U:C3'	10:AA:27:A:C5'	2.93	0.47
10:AA:45:A:H61	10:AA:425:A:H4'	1.78	0.47
10:AA:64:U:H5	10:AA:79:G:N1	2.13	0.47
10:AA:97:U:C2'	10:AA:98:U:H5'	2.37	0.47
10:AA:411:U:O2'	10:AA:412:U:H5'	2.14	0.47
10:AA:416:C:H4'	10:AA:418:G:OP1	2.15	0.47
10:AA:1052:U:O2	10:AA:1052:U:C2'	2.62	0.47
11:AB:73:CYS:HB2	11:AB:121:THR:HG1	1.80	0.47
11:AB:99:TRP:NE1	11:AB:129:ALA:HB2	2.30	0.47
13:AD:131:GLN:HG2	13:AD:131:GLN:H	1.43	0.47
14:AE:35:ARG:NH2	14:AE:251:LYS:HB2	2.30	0.47
16:AG:152:GLY:O	16:AG:155:GLU:N	2.48	0.47
16:AG:184:TRP:CD1	16:AG:188:LYS:HZ1	2.32	0.47
17:AH:38:LEU:HD23	17:AH:38:LEU:HA	1.66	0.47
20:AK:29:GLY:O	20:AK:93:LEU:HA	2.14	0.47
20:AK:69:SER:O	20:AK:70:SER:O	2.33	0.47
22:AM:61:LEU:HB3	22:AM:65:GLN:CG	2.45	0.47
22:AM:93:LYS:HE3	22:AM:93:LYS:CA	2.34	0.47
24:AO:82:CYS:SG	24:AO:82:CYS:O	2.72	0.47
27:AR:140:ARG:O	27:AR:160:ASN:HB2	2.13	0.47
27:AR:218:HIS:CD2	27:AR:261:ILE:H	2.31	0.47
30:AU:89:ASN:C	30:AU:89:ASN:ND2	2.59	0.47
32:AW:23:LEU:O	32:AW:24:GLY:C	2.58	0.47
32:AW:97:THR:HG22	32:AW:97:THR:O	2.14	0.47
32:AW:194:VAL:CG1	32:AW:230:LEU:HD23	2.45	0.47
35:AZ:2:ASN:O	35:AZ:3:SER:C	2.56	0.47
2:B2:114:SER:CB	2:B2:172:ILE:HD11	2.45	0.47
2:B2:128:ASP:O	2:B2:129:LEU:CB	2.61	0.47
3:B3:144:ARG:NE	3:B3:144:ARG:HA	2.30	0.47
3:B3:193:HIS:ND1	6:B6:29:TYR:HB3	2.29	0.47
4:B4:31:TRP:CD2	20:BK:18:PRO:HD3	2.50	0.47
4:B4:80:ASN:HB2	5:B5:62:GLU:OE2	2.15	0.47
5:B5:46:ASP:O	5:B5:50:LYS:HG3	2.15	0.47
7:B7:59:PHE:CD2	10:BA:1406:G:C4	3.03	0.47
10:BA:11:A:C2'	10:BA:12:U:H5'	2.45	0.47
10:BA:312:C:C4'	10:BA:313:G:O5'	2.55	0.47
10:BA:360:U:O2'	10:BA:361:A:P	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:630:A:OP1	17:BH:6:ILE:HD11	2.15	0.47
10:BA:931:A:OP1	24:BO:96:LYS:NZ	2.48	0.47
10:BA:1057:G:N2	10:BA:1061:U:C2	2.83	0.47
10:BA:1064:A:C2	10:BA:1066:G:C5	3.03	0.47
10:BA:1721:G:HO2'	20:BK:151:LEU:HD13	1.79	0.47
11:BB:13:LEU:HA	11:BB:169:MET:HE3	1.97	0.47
11:BB:31:ARG:HG3	11:BB:32:TYR:CE1	2.50	0.47
11:BB:165:GLU:CD	11:BB:165:GLU:H	2.23	0.47
14:BE:44:SER:HB2	14:BE:47:GLU:HB2	1.96	0.47
14:BE:244:PHE:N	14:BE:244:PHE:CD1	2.83	0.47
15:BF:48:MET:SD	15:BF:59:ALA:HB1	2.55	0.47
15:BF:85:LEU:CD2	15:BF:90:ILE:HD11	2.44	0.47
16:BG:147:TYR:CD1	16:BG:147:TYR:C	2.92	0.47
17:BH:49:GLU:HG2	17:BH:50:PHE:N	2.30	0.47
18:BI:7:GLN:O	18:BI:25:ARG:HG3	2.14	0.47
18:BI:12:PHE:CD1	18:BI:12:PHE:C	2.92	0.47
18:BI:42:ASN:HB3	18:BI:43:PRO:CD	2.40	0.47
20:BK:104:GLU:O	20:BK:105:THR:C	2.58	0.47
24:BO:68:LEU:HD23	24:BO:68:LEU:O	2.14	0.47
25:BP:28:PRO:O	25:BP:29:ASP:CB	2.62	0.47
26:BQ:44:PRO:CG	26:BQ:47:ALA:HB2	2.43	0.47
27:BR:218:HIS:CG	27:BR:219:LEU:N	2.83	0.47
29:BT:43:THR:O	29:BT:100:HIS:CE1	2.68	0.47
30:BU:120:ILE:C	30:BU:122:GLY:N	2.71	0.47
31:BV:71:LEU:HB3	31:BV:74:GLN:HB2	1.97	0.47
32:BW:144:HIS:CG	32:BW:145:ASP:N	2.83	0.47
34:BY:185:PRO:HA	34:BY:188:ILE:HD12	1.97	0.47
2:A2:21:HIS:CD2	2:A2:21:HIS:H	2.33	0.47
2:A2:35:MET:HE3	2:A2:37:LYS:HG3	1.96	0.47
2:A2:109:ILE:HD13	2:A2:199:TYR:CD2	2.50	0.47
3:A3:91:ILE:HG23	3:A3:166:LYS:HD2	1.96	0.47
3:A3:119:LEU:HB2	10:AA:633:U:H6	1.77	0.47
4:A4:122:THR:HB	4:A4:146:THR:OG1	2.15	0.47
9:A9:135:GLY:HA3	10:AA:1225:U:O4'	2.15	0.47
9:A9:146:UNK:HA	9:A9:149:UNK:HG1	1.97	0.47
10:AA:112:U:O2'	10:AA:324:A:H1'	2.15	0.47
10:AA:240:G:N2	10:AA:248:A:H1'	2.30	0.47
10:AA:642:G:H2'	10:AA:643:U:C5'	2.41	0.47
10:AA:732:U:C4	10:AA:784:G:C6	3.03	0.47
10:AA:876:A:HO2'	10:AA:877:G:P	2.38	0.47
10:AA:1136:G:O2'	10:AA:1137:A:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1256:C:H4'	10:AA:1257:U:O5'	2.15	0.47
10:AA:1339:G:H2'	10:AA:1340:G:H8	1.79	0.47
10:AA:1531:G:C2'	10:AA:1532:U:OP1	2.62	0.47
10:AA:1541:A:O2'	22:AM:147:VAL:CG2	2.62	0.47
11:AB:119:ILE:HA	11:AB:141:ILE:O	2.15	0.47
12:AC:119:ARG:HD2	14:AE:123:GLN:HE22	1.74	0.47
12:AC:184:ILE:HG22	12:AC:185:MET:N	2.30	0.47
13:AD:167:GLY:O	13:AD:168:ARG:HB3	2.15	0.47
14:AE:82:LEU:HD12	14:AE:212:LEU:HD13	1.96	0.47
16:AG:54:LYS:HB3	16:AG:57:ARG:HG2	1.95	0.47
17:AH:81:VAL:N	17:AH:123:GLY:O	2.47	0.47
19:AJ:22:THR:O	19:AJ:23:LEU:HD23	2.15	0.47
26:AQ:52:TYR:CD1	26:AQ:52:TYR:C	2.93	0.47
30:AU:73:VAL:HG12	30:AU:74:PRO:HD2	1.96	0.47
31:AV:13:ALA:HB1	31:AV:54:ALA:HA	1.96	0.47
32:AW:11:ARG:NH1	32:AW:21:ASN:HB3	2.30	0.47
32:AW:49:LYS:O	32:AW:53:ASN:HA	2.15	0.47
32:AW:72:VAL:O	32:AW:72:VAL:HG23	2.14	0.47
34:AY:23:LYS:NZ	34:AY:43:ASP:OD2	2.42	0.47
34:AY:97:VAL:HG12	34:AY:98:ARG:N	2.30	0.47
3:B3:144:ARG:HH12	35:BZ:3:SER:HB3	1.80	0.47
4:B4:76:LYS:O	4:B4:76:LYS:HD2	2.15	0.47
7:B7:91:THR:HG22	7:B7:91:THR:O	2.15	0.47
9:B9:155:UNK:CA	9:B9:158:UNK:HG3	2.45	0.47
10:BA:26:U:C3'	10:BA:27:A:C5'	2.92	0.47
10:BA:311:U:H5'	10:BA:312:C:C5'	2.37	0.47
10:BA:427:A:OP1	21:BL:48:ALA:HA	2.14	0.47
10:BA:533:G:H8	10:BA:533:G:H3'	1.80	0.47
10:BA:533:G:C2'	10:BA:534:A:O5'	2.63	0.47
10:BA:675:A:H4'	10:BA:676:C:OP1	2.11	0.47
10:BA:690:A:N1	10:BA:712:U:C4	2.83	0.47
10:BA:747:G:N2	10:BA:755:G:N1	2.63	0.47
10:BA:1172:G:HO2'	10:BA:1173:G:P	2.30	0.47
10:BA:1191:A:H2'	10:BA:1192:C:H5'	1.97	0.47
10:BA:1199:G:H5"	10:BA:1200:G:C3'	2.45	0.47
10:BA:1434:C:O2	10:BA:1434:C:H2'	2.15	0.47
10:BA:1718:A:C3'	10:BA:1719:A:H5'	2.43	0.47
10:BA:1721:G:H21	20:BK:151:LEU:HD12	1.79	0.47
11:BB:96:SER:HB3	11:BB:111:LYS:HZ1	1.79	0.47
11:BB:186:SER:O	11:BB:187:LYS:C	2.57	0.47
12:BC:39:GLY:C	12:BC:40:ILE:HG13	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BC:74:GLN:HA	12:BC:77:GLN:NE2	2.30	0.47
13:BD:93:LEU:O	13:BD:96:VAL:HG23	2.15	0.47
13:BD:112:ARG:HD3	13:BD:112:ARG:HA	1.57	0.47
16:BG:96:HIS:O	16:BG:100:GLY:HA2	2.14	0.47
18:BI:21:VAL:O	18:BI:69:ILE:HA	2.15	0.47
19:BJ:66:ARG:HE	19:BJ:77:TRP:HH2	1.61	0.47
21:BL:131:LEU:O	21:BL:132:LEU:C	2.57	0.47
22:BM:141:SER:O	22:BM:142:GLY:C	2.58	0.47
24:BO:56:LEU:HD22	24:BO:62:ILE:HD12	1.96	0.47
27:BR:84:LEU:CD2	27:BR:91:ALA:HB2	2.44	0.47
27:BR:297:GLU:N	27:BR:298:PRO:CD	2.77	0.47
29:BT:116:ILE:HG23	29:BT:136:GLY:CA	2.44	0.47
30:BU:108:TYR:CE2	30:BU:120:ILE:HD13	2.49	0.47
34:BY:14:LYS:HG3	34:BY:15:CYS:N	2.30	0.47
2:A2:112:ILE:HD11	2:A2:174:ALA:CB	2.45	0.47
2:A2:141:LYS:HZ1	2:A2:143:LYS:HE2	1.75	0.47
2:A2:142:GLU:HB2	2:A2:150:ARG:NH2	2.31	0.47
4:A4:45:PHE:HD1	4:A4:46:GLY:N	2.13	0.47
4:A4:76:LYS:O	4:A4:76:LYS:HD2	2.15	0.47
7:A7:55:LEU:HG	7:A7:66:TYR:HB3	1.96	0.47
7:A7:61:TRP:HE1	12:AC:26:SER:HB2	1.80	0.47
8:A8:95:LYS:HE3	8:A8:105:TYR:OH	2.15	0.47
9:A9:80:TYR:CD1	9:A9:80:TYR:N	2.83	0.47
10:AA:313:G:O2'	10:AA:314:A:P	2.72	0.47
10:AA:383:G:N2	10:AA:397:U:C2	2.83	0.47
10:AA:748:U:N3	13:AD:146:PHE:CZ	2.83	0.47
10:AA:840:A:N6	24:AO:72:LYS:HZ3	2.11	0.47
10:AA:1064:A:O2'	10:AA:1065:A:O5'	2.32	0.47
10:AA:1303:A:O2'	31:AV:46:LEU:HD12	2.15	0.47
10:AA:1716:A:OP2	10:AA:1721:G:OP1	2.33	0.47
11:AB:21:ALA:HB1	11:AB:145:ASP:OD2	2.14	0.47
12:AC:175:VAL:HG13	12:AC:187:VAL:O	2.14	0.47
13:AD:157:ASP:HB3	13:AD:158:PHE:H	1.52	0.47
16:AG:13:LEU:C	16:AG:15:GLY:H	2.22	0.47
21:AL:78:ASN:HD21	21:AL:80:LYS:CG	2.25	0.47
22:AM:25:LYS:NZ	22:AM:57:ARG:HG3	2.30	0.47
22:AM:114:GLU:OE2	22:AM:118:LYS:HE3	2.15	0.47
27:AR:96:TRP:HB3	27:AR:120:GLU:CG	2.45	0.47
27:AR:281:PHE:N	27:AR:281:PHE:HD1	2.13	0.47
28:AS:58:TYR:HB3	28:AS:88:MET:HE2	1.97	0.47
28:AS:86:ARG:CZ	28:AS:122:ALA:HB1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AU:87:THR:O	30:AU:87:THR:HG22	2.15	0.47
33:AX:65:GLY:HA2	33:AX:70:MET:HE1	1.95	0.47
35:AZ:14:THR:OG1	35:AZ:23:LYS:HE2	2.15	0.47
2:B2:84:THR:HG21	2:B2:113:ASP:O	2.15	0.47
3:B3:81:ILE:HG23	3:B3:92:VAL:HB	1.97	0.47
7:B7:52:ARG:CB	7:B7:54:PHE:HE1	2.28	0.47
10:BA:19:A:O2'	10:BA:20:G:H5'	2.15	0.47
10:BA:221:A:H61	10:BA:814:A:N6	2.13	0.47
10:BA:640:A:H2'	10:BA:641:G:C8	2.50	0.47
10:BA:879:G:N1	10:BA:880:G:C2	2.83	0.47
10:BA:954:G:N2	10:BA:1001:A:H2'	2.30	0.47
10:BA:1027:U:C2'	10:BA:1028:G:C5'	2.93	0.47
10:BA:1122:G:H1'	10:BA:1718:A:O2'	2.15	0.47
10:BA:1495:U:O2'	10:BA:1496:A:C5'	2.63	0.47
10:BA:1529:U:O2	10:BA:1529:U:C2'	2.63	0.47
10:BA:1541:A:C1'	22:BM:147:VAL:HG21	2.41	0.47
10:BA:1703:A:H2'	10:BA:1704:C:C6	2.50	0.47
16:BG:125:THR:HB	16:BG:130:ARG:CZ	2.44	0.47
18:BI:11:THR:HG22	18:BI:22:ALA:HB3	1.97	0.47
21:BL:106:LEU:CD2	21:BL:122:LYS:HB2	2.45	0.47
22:BM:143:ARG:O	22:BM:144:HIS:HB2	2.13	0.47
24:BO:31:THR:CG2	24:BO:32:PRO:HD2	2.45	0.47
24:BO:84:PRO:O	24:BO:85:GLN:C	2.58	0.47
26:BQ:117:LYS:NZ	26:BQ:144:ASN:O	2.43	0.47
27:BR:16:ILE:HG23	27:BR:332:VAL:HG13	1.96	0.47
27:BR:56:LEU:HD11	27:BR:65:PHE:CE2	2.50	0.47
29:BT:83:PHE:CZ	29:BT:85:SER:CB	2.98	0.47
30:BU:100:CYS:O	30:BU:101:SER:OG	2.27	0.47
31:BV:47:ARG:C	31:BV:47:ARG:HD2	2.39	0.47
32:BW:94:ILE:HD12	32:BW:99:GLN:HG3	1.95	0.47
33:BX:8:LEU:C	33:BX:10:LYS:N	2.73	0.47
33:BX:25:ASP:O	33:BX:26:LYS:C	2.58	0.47
2:A2:31:ARG:CG	10:AA:323:U:OP1	2.63	0.46
2:A2:196:LEU:O	2:A2:197:GLU:C	2.58	0.46
3:A3:134:SER:HB2	3:A3:159:ASP:OD2	2.14	0.46
4:A4:75:LEU:O	4:A4:79:SER:CB	2.63	0.46
6:A6:24:GLN:HE22	17:AH:57:ARG:HH12	1.62	0.46
8:A8:73:LEU:HB2	8:A8:75:VAL:CG2	2.39	0.46
9:A9:121:PRO:O	30:AU:38:ALA:N	2.48	0.46
10:AA:17:C:H5'	10:AA:1081:G:C5'	2.44	0.46
10:AA:64:U:O2'	10:AA:65:C:O5'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:69:A:H2'	10:AA:70:U:H5"	1.97	0.46
10:AA:262:G:C2	10:AA:264:U:C4	3.03	0.46
10:AA:306:A:C1'	10:AA:344:A:N6	2.78	0.46
10:AA:350:A:H5"	10:AA:351:A:H5"	1.95	0.46
10:AA:559:C:O2	10:AA:559:C:C2'	2.63	0.46
10:AA:690:A:N1	10:AA:712:U:C4	2.83	0.46
10:AA:1089:U:O2'	10:AA:1090:G:OP1	2.28	0.46
10:AA:1201:G:O2'	10:AA:1202:A:H8	1.98	0.46
10:AA:1385:U:C6	10:AA:1385:U:OP1	2.68	0.46
10:AA:1608:C:C2	10:AA:1610:G:C4	3.03	0.46
12:AC:228:ARG:O	12:AC:228:ARG:HG3	2.15	0.46
13:AD:15:PRO:CG	13:AD:23:ARG:HH12	2.28	0.46
20:AK:67:GLU:C	20:AK:69:SER:H	2.23	0.46
21:AL:106:LEU:CD2	21:AL:122:LYS:HB2	2.45	0.46
27:AR:134:LEU:HD21	27:AR:187:PHE:CE2	2.50	0.46
27:AR:237:LEU:HD21	27:AR:239:ILE:HG13	1.97	0.46
28:AS:69:LYS:NZ	28:AS:93:GLU:O	2.45	0.46
28:AS:114:PHE:O	28:AS:117:ILE:HG13	2.15	0.46
29:AT:82:ILE:O	29:AT:82:ILE:CG2	2.63	0.46
32:AW:73:PHE:HB2	32:AW:93:ARG:HB3	1.97	0.46
32:AW:193:ARG:NH1	32:AW:246:VAL:HA	2.30	0.46
33:AX:8:LEU:C	33:AX:10:LYS:N	2.73	0.46
34:AY:44:GLU:O	34:AY:119:ALA:HB1	2.15	0.46
2:B2:18:MET:CE	2:B2:19:PRO:O	2.63	0.46
2:B2:93:ALA:O	2:B2:94:THR:C	2.58	0.46
3:B3:194:THR:HG22	3:B3:194:THR:O	2.16	0.46
4:B4:131:LYS:NZ	4:B4:137:ILE:HG12	2.29	0.46
5:B5:77:ILE:CD1	5:B5:77:ILE:H	2.26	0.46
9:B9:83:LYS:CG	9:B9:84:LYS:H	2.28	0.46
9:B9:119:CYS:O	9:B9:123:ILE:HD12	2.15	0.46
9:B9:120:GLY:C	9:B9:122:GLY:H	2.23	0.46
9:B9:146:UNK:O	9:B9:146:UNK:HG3	2.14	0.46
10:BA:125:U:O2	10:BA:125:U:H2'	2.15	0.46
10:BA:431:U:N1	10:BA:457:G:N2	2.64	0.46
10:BA:449:G:C2'	10:BA:450:G:H5'	2.45	0.46
10:BA:841:A:C2'	10:BA:842:U:OP1	2.63	0.46
10:BA:896:U:H2'	10:BA:897:A:H8	1.80	0.46
10:BA:1183:A:H4'	28:BS:105:LYS:NZ	2.29	0.46
10:BA:1607:A:N6	14:BE:93:ALA:H	2.13	0.46
12:BC:227:ILE:HG12	27:BR:209:PHE:HE1	1.80	0.46
13:BD:46:GLN:HG2	13:BD:101:ILE:CD1	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BH:128:PHE:C	17:BH:128:PHE:CD1	2.92	0.46
19:BJ:14:VAL:HG11	19:BJ:16:LYS:HE3	1.96	0.46
21:BL:40:ASN:CB	21:BL:41:PRO:HD2	2.38	0.46
22:BM:6:GLU:O	22:BM:10:ASP:N	2.41	0.46
22:BM:131:LEU:O	22:BM:132:LYS:C	2.57	0.46
25:BP:10:ILE:HA	25:BP:20:GLN:O	2.16	0.46
26:BQ:4:GLN:CD	26:BQ:10:GLN:OE1	2.57	0.46
27:BR:34:LYS:O	27:BR:35:GLU:C	2.59	0.46
27:BR:67:ILE:HG23	27:BR:68:PRO:HD2	1.96	0.46
27:BR:237:LEU:HD21	27:BR:239:ILE:HG13	1.95	0.46
28:BS:13:PHE:O	28:BS:14:ARG:HD3	2.14	0.46
29:BT:43:THR:HG1	29:BT:50:ALA:HA	1.74	0.46
32:BW:188:GLY:H	32:BW:191:ILE:CG2	2.28	0.46
32:BW:194:VAL:HG23	32:BW:245:GLY:HA3	1.97	0.46
34:BY:232:ALA:N	34:BY:233:PRO:HD2	2.30	0.46
2:A2:17:ARG:HG2	2:A2:18:MET:H	1.80	0.46
3:A3:22:ALA:O	3:A3:25:GLU:HB2	2.16	0.46
3:A3:119:LEU:CB	10:AA:633:U:H6	2.28	0.46
3:A3:126:LEU:HB2	3:A3:174:TYR:HE1	1.78	0.46
3:A3:178:THR:O	3:A3:179:THR:HG23	2.15	0.46
6:A6:44:ILE:HG21	6:A6:52:ILE:CD1	2.45	0.46
8:A8:99:ASN:O	8:A8:101:ASN:N	2.49	0.46
10:AA:177:U:H2'	10:AA:178:U:H6	1.80	0.46
10:AA:302:U:H2'	10:AA:303:A:H5"	1.97	0.46
10:AA:309:U:C2'	10:AA:310:C:C5'	2.84	0.46
10:AA:343:C:O2'	10:AA:344:A:OP2	2.27	0.46
10:AA:651:G:N2	10:AA:652:A:C4	2.83	0.46
10:AA:761:U:C4	10:AA:764:U:O2	2.68	0.46
10:AA:803:A:C2	10:AA:830:G:C2	3.03	0.46
10:AA:1125:A:C5	10:AA:1126:C:C5	3.03	0.46
10:AA:1159:U:H3	10:AA:1170:G:H1	1.64	0.46
10:AA:1244:U:O4	10:AA:1402:C:O2	2.32	0.46
10:AA:1263:G:O5'	10:AA:1263:G:C8	2.65	0.46
10:AA:1269:G:N2	10:AA:1272:A:OP2	2.48	0.46
10:AA:1301:A:C2'	10:AA:1302:G:C5'	2.91	0.46
10:AA:1416:G:O2'	10:AA:1417:A:P	2.72	0.46
10:AA:1440:A:H2'	10:AA:1441:C:C6	2.50	0.46
10:AA:1513:G:H2'	10:AA:1514:G:H1'	1.96	0.46
13:AD:23:ARG:HH21	13:AD:24:LEU:HD21	1.80	0.46
14:AE:78:MET:HE2	14:AE:78:MET:HA	1.97	0.46
18:AI:8:LEU:HD12	18:AI:24:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AI:101:GLU:HG2	27:AR:71:ALA:HB2	1.97	0.46
22:AM:119:ILE:CG2	28:AS:124:PHE:CE2	2.99	0.46
28:AS:60:LYS:HZ3	28:AS:64:LYS:CE	2.29	0.46
32:AW:61:VAL:O	32:AW:63:LEU:N	2.48	0.46
32:AW:120:GLU:C	32:AW:122:LYS:N	2.73	0.46
1:B1:26:GLN:NE2	1:B1:65:ARG:HA	2.30	0.46
1:B1:62:ARG:HB3	1:B1:63:GLU:H	1.59	0.46
2:B2:70:GLU:CG	2:B2:85:LYS:HG2	2.42	0.46
2:B2:78:GLU:HB2	2:B2:80:ILE:HG13	1.97	0.46
3:B3:196:LYS:HD3	3:B3:196:LYS:C	2.41	0.46
4:B4:169:ALA:CB	4:B4:210:ILE:HD13	2.44	0.46
4:B4:217:THR:HG22	4:B4:218:ILE:H	1.80	0.46
10:BA:80:A:H1'	25:BP:121:THR:HG23	1.97	0.46
10:BA:143:C:H2'	10:BA:144:C:H6	1.80	0.46
10:BA:313:G:C6	10:BA:328:G:C2	3.03	0.46
10:BA:424:A:N3	10:BA:425:A:C8	2.83	0.46
10:BA:586:A:OP1	13:BD:39:LYS:HD2	2.14	0.46
10:BA:630:A:H5"	17:BH:31:SER:HB3	1.96	0.46
10:BA:884:A:H2'	10:BA:885:A:O4'	2.15	0.46
10:BA:1037:G:O2'	10:BA:1038:U:H5'	2.13	0.46
10:BA:1168:A:N6	10:BA:1573:G:H2'	2.31	0.46
10:BA:1608:C:H4'	10:BA:1609:C:OP1	2.13	0.46
10:BA:1644:C:H2'	10:BA:1645:C:C6	2.49	0.46
10:BA:1659:C:O5'	10:BA:1659:C:H6	1.98	0.46
11:BB:31:ARG:HG3	11:BB:31:ARG:HH11	1.79	0.46
12:BC:9:ASN:HB2	12:BC:12:LYS:HB2	1.97	0.46
12:BC:49:THR:HB	12:BC:87:ILE:HG12	1.98	0.46
16:BG:59:THR:C	16:BG:61:CYS:H	2.22	0.46
22:BM:129:TRP:CD1	22:BM:129:TRP:H	2.33	0.46
26:BQ:117:LYS:O	26:BQ:120:ASP:OD1	2.33	0.46
27:BR:22:ASP:HB3	27:BR:47:ARG:HB2	1.97	0.46
27:BR:186:TYR:CD1	27:BR:186:TYR:C	2.92	0.46
27:BR:218:HIS:CD2	27:BR:261:ILE:H	2.33	0.46
28:BS:59:ALA:O	28:BS:62:VAL:HB	2.15	0.46
28:BS:65:VAL:HG21	28:BS:94:LEU:HD21	1.96	0.46
29:BT:49:LEU:HG	29:BT:50:ALA:N	2.30	0.46
1:A1:61:GLU:O	1:A1:62:ARG:HG2	2.16	0.46
2:A2:3:ILE:O	2:A2:30:GLY:HA3	2.15	0.46
3:A3:48:PHE:HE2	3:A3:62:LEU:HD23	1.80	0.46
3:A3:109:LYS:H	3:A3:109:LYS:CD	2.28	0.46
5:A5:10:ARG:NH1	5:A5:12:GLN:NE2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:12:GLN:HG3	5:A5:33:ASP:OD2	2.14	0.46
7:A7:21:VAL:HG13	12:AC:75:PHE:CE1	2.50	0.46
7:A7:99:PHE:HZ	12:AC:69:HIS:NE2	2.13	0.46
8:A8:99:ASN:O	8:A8:100:GLY:C	2.59	0.46
9:A9:137:CYS:SG	9:A9:139:LEU:HB2	2.55	0.46
10:AA:130:A:H2	10:AA:170:C:OP1	1.99	0.46
10:AA:272:U:C4	10:AA:273:A:H8	2.33	0.46
10:AA:316:G:O4'	26:AQ:79:MET:CE	2.59	0.46
10:AA:472:A:O2'	10:AA:473:A:H5'	2.15	0.46
10:AA:496:G:C2	10:AA:497:G:C8	3.03	0.46
10:AA:533:G:H2'	10:AA:534:A:O5'	2.14	0.46
10:AA:611:U:C6	10:AA:1009:U:O2	2.69	0.46
10:AA:769:C:C6	10:AA:769:C:H3'	2.49	0.46
10:AA:838:U:O2	10:AA:838:U:H2'	2.15	0.46
10:AA:981:A:C2'	10:AA:982:U:OP2	2.63	0.46
10:AA:1056:A:O2'	10:AA:1057:G:H5'	2.15	0.46
10:AA:1170:G:O4'	19:AJ:71:GLY:HA3	2.16	0.46
10:AA:1171:G:C2	23:AN:29:LEU:HD22	2.50	0.46
10:AA:1174:A:H3'	10:AA:1174:A:C8	2.50	0.46
10:AA:1371:A:O2'	10:AA:1372:A:H5'	2.15	0.46
10:AA:1687:C:H2'	10:AA:1688:C:H6	1.79	0.46
10:AA:1717:C:C2'	10:AA:1718:A:C5'	2.93	0.46
13:AD:112:ARG:HA	13:AD:112:ARG:HD3	1.57	0.46
14:AE:27:TRP:CH2	14:AE:57:GLU:CD	2.92	0.46
14:AE:116:TRP:H	14:AE:132:HIS:CD2	2.18	0.46
16:AG:14:PHE:HD2	16:AG:17:TRP:HZ3	1.63	0.46
18:AI:13:GLY:HA2	18:AI:85:GLN:NE2	2.30	0.46
19:AJ:27:ASN:ND2	19:AJ:29:LYS:HD2	2.29	0.46
21:AL:75:LEU:HD12	21:AL:78:ASN:HD22	1.80	0.46
22:AM:131:LEU:O	22:AM:132:LYS:C	2.58	0.46
25:AP:123:LEU:CD1	25:AP:123:LEU:H	2.28	0.46
25:AP:148:ALA:O	25:AP:149:LYS:C	2.58	0.46
28:AS:32:LYS:O	28:AS:34:ILE:N	2.48	0.46
28:AS:42:PHE:CD2	28:AS:118:GLY:HA2	2.49	0.46
28:AS:90:VAL:HB	28:AS:117:ILE:HA	1.96	0.46
28:AS:101:VAL:HG21	28:AS:121:LEU:CD1	2.40	0.46
32:AW:211:HIS:C	32:AW:212:VAL:HG22	2.40	0.46
34:AY:222:GLN:HA	34:AY:225:ALA:HB3	1.98	0.46
34:AY:232:ALA:N	34:AY:233:PRO:HD2	2.30	0.46
2:B2:176:ILE:HG22	2:B2:177:THR:N	2.30	0.46
4:B4:150:SER:O	4:B4:151:ALA:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:16:G:H2'	10:BA:17:C:H6	1.73	0.46
10:BA:218:C:H2'	10:BA:219:C:C6	2.50	0.46
10:BA:280:U:H2'	10:BA:281:A:C8	2.51	0.46
10:BA:385:C:H2'	10:BA:386:U:O4'	2.15	0.46
10:BA:477:G:N2	10:BA:496:G:H1'	2.29	0.46
10:BA:542:G:O2'	10:BA:543:A:H5'	2.15	0.46
10:BA:863:G:H21	20:BK:137:THR:HG22	1.81	0.46
10:BA:937:U:H5"	10:BA:938:U:OP2	2.14	0.46
10:BA:981:A:O2'	10:BA:982:U:OP2	2.31	0.46
10:BA:1119:G:H4'	14:BE:91:THR:HA	1.97	0.46
10:BA:1166:A:O2'	10:BA:1167:C:H5'	2.15	0.46
10:BA:1266:G:H1	10:BA:1275:U:H3	1.63	0.46
10:BA:1427:C:OP2	10:BA:1428:C:C5	2.68	0.46
10:BA:1525:G:N2	10:BA:1527:A:H3'	2.30	0.46
10:BA:1652:A:C2'	34:BY:65:GLN:HE21	2.29	0.46
10:BA:1688:C:O2'	10:BA:1689:U:H5'	2.16	0.46
11:BB:5:ARG:NE	11:BB:176:ARG:HH21	2.12	0.46
11:BB:99:TRP:CD1	11:BB:129:ALA:HB2	2.50	0.46
11:BB:180:ILE:HG12	11:BB:185:LEU:HD23	1.97	0.46
11:BB:191:TRP:CD1	11:BB:193:VAL:HB	2.48	0.46
15:BF:27:ARG:O	15:BF:28:GLY:C	2.58	0.46
18:BI:58:GLY:C	18:BI:60:GLN:H	2.23	0.46
19:BJ:94:ASN:C	19:BJ:96:PRO:HD2	2.40	0.46
20:BK:69:SER:O	20:BK:70:SER:O	2.33	0.46
25:BP:43:ALA:O	25:BP:47:LYS:N	2.49	0.46
27:BR:9:ILE:HD12	27:BR:290:PRO:O	2.14	0.46
27:BR:125:ALA:HB3	27:BR:134:LEU:CB	2.40	0.46
27:BR:179:LYS:O	27:BR:180:VAL:O	2.34	0.46
28:BS:66:ARG:HH12	28:BS:93:GLU:HB3	1.78	0.46
28:BS:91:ILE:CG2	28:BS:92:PRO:HD2	2.45	0.46
29:BT:10:VAL:HG22	29:BT:69:TYR:HE2	1.80	0.46
32:BW:95:GLU:O	32:BW:97:THR:N	2.48	0.46
32:BW:185:ILE:HD12	32:BW:190:ASN:O	2.15	0.46
4:A4:88:LYS:O	4:A4:104:TYR:HB3	2.15	0.46
4:A4:199:TYR:N	4:A4:199:TYR:CD1	2.84	0.46
6:A6:31:MET:HE1	6:A6:77:PHE:HD2	1.79	0.46
8:A8:29:LYS:NZ	10:AA:1509:U:C5'	2.79	0.46
10:AA:68:U:H4'	34:AY:169:LYS:HZ1	1.81	0.46
10:AA:89:A:C8	10:AA:389:G:C4	3.04	0.46
10:AA:217:A:N6	10:AA:820:U:N3	2.63	0.46
10:AA:533:G:C2'	10:AA:534:A:C5'	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:602:U:HO2'	10:AA:603:U:P	2.38	0.46
10:AA:640:A:H2'	10:AA:641:G:C8	2.51	0.46
10:AA:787:A:H1'	17:AH:105:THR:HG23	1.96	0.46
16:AG:153:CYS:HA	16:AG:167:THR:CG2	2.46	0.46
25:AP:117:GLY:O	25:AP:118:LYS:C	2.58	0.46
26:AQ:131:SER:O	26:AQ:132:LYS:C	2.57	0.46
27:AR:159:GLU:HB3	27:AR:199:TRP:CZ3	2.50	0.46
29:AT:86:ASN:OD1	29:AT:94:ASN:HB3	2.15	0.46
32:AW:57:ASN:ND2	32:AW:59:ARG:HB3	2.26	0.46
32:AW:120:GLU:C	32:AW:122:LYS:H	2.24	0.46
33:AX:35:SER:O	33:AX:39:ILE:HG13	2.15	0.46
1:B1:12:MET:HB3	1:B1:28:ARG:CG	2.28	0.46
4:B4:37:PRO:O	4:B4:38:ILE:C	2.58	0.46
6:B6:26:PRO:HB2	10:BA:937:U:OP1	2.15	0.46
7:B7:55:LEU:CD1	7:B7:68:LEU:HA	2.46	0.46
7:B7:99:PHE:CZ	12:BC:69:HIS:CE1	3.04	0.46
10:BA:96:A:O2'	10:BA:97:U:H5'	2.16	0.46
10:BA:165:A:C2'	10:BA:166:C:H5'	2.46	0.46
10:BA:263:A:O2'	10:BA:264:U:OP1	2.30	0.46
10:BA:451:G:O2'	10:BA:452:A:OP2	2.31	0.46
10:BA:469:A:C6	10:BA:531:A:N1	2.84	0.46
10:BA:604:G:H1	10:BA:1080:G:H21	1.50	0.46
10:BA:754:A:C2	10:BA:755:G:C6	3.04	0.46
10:BA:957:A:H2'	10:BA:958:G:O4'	2.15	0.46
10:BA:1188:A:C4	10:BA:1415:A:C2	3.04	0.46
10:BA:1360:U:H2'	31:BV:3:ARG:HH12	1.78	0.46
10:BA:1369:A:H2'	10:BA:1370:U:H6	1.77	0.46
10:BA:1373:G:C4	10:BA:1374:C:H5	2.31	0.46
10:BA:1558:A:C8	10:BA:1583:A:N6	2.83	0.46
12:BC:50:GLU:OE2	12:BC:52:ARG:HD2	2.15	0.46
13:BD:151:ASP:O	13:BD:154:LYS:HE3	2.15	0.46
16:BG:34:ALA:H	16:BG:63:ILE:HG12	1.81	0.46
17:BH:49:GLU:OE1	35:BZ:1:MET:HG3	2.14	0.46
17:BH:76:SER:HB2	17:BH:77:PRO:CD	2.39	0.46
20:BK:45:THR:HG23	20:BK:51:GLU:O	2.15	0.46
21:BL:29:PHE:CZ	21:BL:33:LEU:CD1	2.98	0.46
22:BM:25:LYS:NZ	22:BM:57:ARG:HG3	2.30	0.46
26:BQ:131:SER:O	26:BQ:132:LYS:C	2.58	0.46
27:BR:144:LEU:HB3	27:BR:153:PHE:H	1.81	0.46
32:BW:49:LYS:O	32:BW:53:ASN:HA	2.15	0.46
2:A2:72:ASN:ND2	10:AA:255:C:O4'	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:111:GLU:OE1	2:A2:171:ARG:HB3	2.16	0.46
2:A2:194:LYS:CG	26:AQ:4:GLN:NE2	2.79	0.46
3:A3:14:LYS:HA	3:A3:17:GLU:OE1	2.14	0.46
4:A4:90:VAL:HG23	4:A4:104:TYR:CB	2.45	0.46
5:A5:13:LYS:HG3	10:AA:912:A:H1'	1.96	0.46
5:A5:44:MET:HG3	5:A5:66:ILE:CG2	2.46	0.46
9:A9:86:THR:CG2	9:A9:87:LYS:N	2.79	0.46
9:A9:124:PHE:HD1	9:A9:124:PHE:H	1.63	0.46
10:AA:15:U:C6	10:AA:16:G:C8	3.03	0.46
10:AA:77:G:C8	10:AA:77:G:C5'	2.95	0.46
10:AA:95:C:H4'	10:AA:96:A:O5'	2.16	0.46
10:AA:143:C:H2'	10:AA:144:C:H6	1.80	0.46
10:AA:453:G:H5"	32:AW:26:ILE:CD1	2.44	0.46
10:AA:754:A:C2	10:AA:755:G:C6	3.03	0.46
10:AA:1045:G:O2'	10:AA:1046:G:H5'	2.16	0.46
10:AA:1261:U:C6	10:AA:1261:U:H3'	2.50	0.46
10:AA:1312:U:H4'	10:AA:1313:G:OP2	2.14	0.46
10:AA:1384:U:C4'	10:AA:1385:U:OP2	2.63	0.46
10:AA:1726:U:C2	10:AA:1742:G:N2	2.84	0.46
11:AB:99:TRP:CD1	11:AB:129:ALA:HB2	2.51	0.46
14:AE:142:LYS:CB	14:AE:152:ALA:HB1	2.46	0.46
14:AE:225:TYR:C	14:AE:225:TYR:HD1	2.24	0.46
14:AE:228:PRO:HD2	17:AH:99:PHE:CE2	2.49	0.46
15:AF:89:GLY:C	15:AF:91:ALA:H	2.23	0.46
15:AF:89:GLY:C	15:AF:91:ALA:N	2.72	0.46
20:AK:110:PRO:HG2	20:AK:111:GLY:N	2.31	0.46
22:AM:119:ILE:O	22:AM:120:LYS:HB2	2.14	0.46
23:AN:16:ASP:OD1	23:AN:26:ARG:NH1	2.48	0.46
25:AP:119:ALA:O	25:AP:123:LEU:HD13	2.15	0.46
26:AQ:17:LEU:HA	26:AQ:20:LYS:NZ	2.31	0.46
26:AQ:70:ILE:CG2	26:AQ:71:LYS:N	2.78	0.46
27:AR:34:LYS:O	27:AR:35:GLU:C	2.59	0.46
27:AR:89:CYS:O	27:AR:90:PHE:HD1	1.99	0.46
27:AR:174:MET:HE2	27:AR:180:VAL:HG22	1.97	0.46
27:AR:258:ILE:HG23	27:AR:272:VAL:CG1	2.45	0.46
27:AR:266:LYS:O	27:AR:268:GLN:N	2.48	0.46
2:B2:5:ARG:HB2	10:BA:329:A:H1'	1.98	0.46
2:B2:179:ARG:HD3	2:B2:182:GLN:HG3	1.96	0.46
4:B4:130:CYS:HB3	4:B4:182:ALA:CB	2.46	0.46
5:B5:77:ILE:HG12	10:BA:1746:G:C6	2.50	0.46
8:B8:41:HIS:HA	8:B8:74:LYS:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:132:U:C1'	34:BY:149:LYS:NZ	2.78	0.46
10:BA:155:U:H4'	34:BY:83:CYS:HA	1.97	0.46
10:BA:445:U:O2	10:BA:445:U:C2'	2.63	0.46
10:BA:455:C:H2'	10:BA:456:A:O4'	2.16	0.46
10:BA:911:A:O2'	10:BA:912:A:P	2.73	0.46
10:BA:932:G:H5'	24:BO:7:LYS:NZ	2.29	0.46
10:BA:1017:C:H2'	10:BA:1018:G:C5'	2.45	0.46
10:BA:1110:A:O2'	10:BA:1111:A:C5'	2.63	0.46
10:BA:1139:G:H2'	10:BA:1140:U:C6	2.51	0.46
10:BA:1558:A:H2'	10:BA:1559:A:H5'	1.97	0.46
10:BA:1563:C:O5'	10:BA:1563:C:H6	1.99	0.46
10:BA:1654:U:O2	10:BA:1672:G:C2	2.69	0.46
11:BB:6:LYS:HE2	31:BV:111:TYR:OH	2.16	0.46
12:BC:108:MET:HE2	12:BC:139:ILE:HD13	1.97	0.46
17:BH:6:ILE:HA	17:BH:9:GLU:HB2	1.98	0.46
17:BH:81:VAL:N	17:BH:123:GLY:O	2.48	0.46
21:BL:56:ILE:CG2	21:BL:57:GLY:N	2.78	0.46
23:BN:10:PRO:HB2	23:BN:12:ASN:HD22	1.81	0.46
24:BO:48:THR:HB	24:BO:51:GLN:H	1.80	0.46
26:BQ:20:LYS:HB2	26:BQ:20:LYS:HE3	1.55	0.46
26:BQ:128:ARG:HG2	26:BQ:128:ARG:NH1	2.31	0.46
27:BR:97:ASP:C	27:BR:98:LYS:HG3	2.41	0.46
29:BT:41:THR:HG23	29:BT:50:ALA:HB2	1.98	0.46
5:A5:53:ILE:HG23	20:AK:126:ILE:CD1	2.45	0.46
5:A5:83:SER:C	5:A5:85:VAL:H	2.23	0.46
6:A6:47:ASN:ND2	6:A6:67:GLY:O	2.48	0.46
7:A7:11:ARG:CD	7:A7:15:GLN:HE21	2.28	0.46
7:A7:82:ILE:CG1	30:AU:17:LYS:NZ	2.78	0.46
8:A8:47:LYS:HA	8:A8:50:VAL:CG2	2.46	0.46
10:AA:5:U:HO2'	10:AA:546:G:H4'	1.81	0.46
10:AA:218:C:H2'	10:AA:219:C:C6	2.50	0.46
10:AA:301:C:C2'	10:AA:302:U:H5'	2.45	0.46
10:AA:385:C:H2'	10:AA:386:U:O4'	2.15	0.46
10:AA:413:C:N4	34:AY:91:PHE:CE2	2.83	0.46
10:AA:533:G:C2'	10:AA:534:A:O5'	2.63	0.46
10:AA:542:G:O2'	10:AA:543:A:H5'	2.16	0.46
10:AA:667:C:C2'	10:AA:668:U:O4'	2.56	0.46
10:AA:745:G:H2'	10:AA:746:A:H8	1.81	0.46
10:AA:880:G:C5	10:AA:881:U:H5	2.33	0.46
10:AA:933:A:H2'	10:AA:934:U:O4'	2.16	0.46
10:AA:1162:C:C2'	10:AA:1163:U:OP2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1369:A:H8	10:AA:1369:A:P	2.38	0.46
10:AA:1724:U:H6	10:AA:1724:U:H5"	1.79	0.46
11:AB:73:CYS:CB	11:AB:121:THR:HG1	2.27	0.46
11:AB:180:ILE:CG1	11:AB:185:LEU:HD23	2.46	0.46
12:AC:9:ASN:O	12:AC:10:LYS:C	2.58	0.46
13:AD:23:ARG:O	13:AD:27:GLU:HG3	2.15	0.46
14:AE:41:LYS:HD3	14:AE:244:PHE:CD2	2.50	0.46
16:AG:19:TYR:C	16:AG:21:GLU:H	2.24	0.46
17:AH:90:THR:HG23	17:AH:94:LEU:HD12	1.98	0.46
20:AK:43:HIS:CE1	20:AK:52:THR:HG23	2.51	0.46
20:AK:99:ALA:O	20:AK:101:GLY:N	2.48	0.46
21:AL:55:LYS:HB2	21:AL:92:LEU:HD21	1.97	0.46
22:AM:6:GLU:O	22:AM:10:ASP:N	2.41	0.46
22:AM:29:PRO:HA	22:AM:43:ALA:HB1	1.98	0.46
22:AM:122:HIS:HE1	28:AS:128:TYR:OH	1.98	0.46
25:AP:115:THR:CG2	25:AP:116:SER:N	2.79	0.46
27:AR:47:ARG:C	27:AR:49:LYS:H	2.23	0.46
27:AR:266:LYS:HB2	27:AR:267:LEU:HD12	1.97	0.46
29:AT:42:THR:O	29:AT:43:THR:C	2.57	0.46
30:AU:48:GLU:C	30:AU:50:CYS:H	2.23	0.46
2:B2:22:ARG:O	2:B2:22:ARG:HG3	2.16	0.46
3:B3:155:LEU:HD13	3:B3:163:LEU:HD13	1.97	0.46
5:B5:30:VAL:HG21	5:B5:76:CYS:CB	2.38	0.46
9:B9:80:TYR:N	9:B9:80:TYR:CD1	2.84	0.46
10:BA:134:C:O2'	10:BA:135:A:P	2.74	0.46
10:BA:302:U:H2'	10:BA:303:A:H5"	1.98	0.46
10:BA:834:A:O2'	10:BA:835:U:P	2.74	0.46
10:BA:1155:A:C6	28:BS:104:GLY:HA3	2.51	0.46
10:BA:1171:G:OP2	23:BN:40:ARG:NH2	2.49	0.46
10:BA:1263:G:H2'	10:BA:1264:G:H8	1.80	0.46
10:BA:1454:A:C6	10:BA:1455:A:C6	3.03	0.46
11:BB:115:PRO:HG2	11:BB:138:ILE:HD12	1.98	0.46
11:BB:203:LEU:CD2	11:BB:204:PRO:HD2	2.45	0.46
13:BD:121:SER:HB3	13:BD:124:HIS:H	1.81	0.46
16:BG:152:GLY:HA2	16:BG:184:TRP:HD1	1.80	0.46
21:BL:27:ASN:O	21:BL:31:LYS:HB2	2.15	0.46
22:BM:21:ASN:OD1	22:BM:35:ILE:HA	2.16	0.46
22:BM:60:LEU:O	22:BM:61:LEU:HD23	2.15	0.46
26:BQ:9:TYR:O	26:BQ:10:GLN:HB2	2.14	0.46
27:BR:326:ALA:HB1	27:BR:328:PHE:HE1	1.81	0.46
30:BU:27:LYS:H	30:BU:31:GLU:HG2	1.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BW:193:ARG:NE	32:BW:220:PHE:CZ	2.83	0.46
33:BX:13:LYS:O	33:BX:17:GLN:HG3	2.15	0.46
33:BX:62:TRP:CH2	33:BX:63:HIS:NE2	2.83	0.46
4:A4:63:ILE:CG2	4:A4:66:ARG:HG3	2.28	0.46
4:A4:77:ASP:HB3	4:A4:78:ASN:H	1.50	0.46
4:A4:107:ASP:OD1	4:A4:108:ILE:N	2.32	0.46
7:A7:9:LYS:CG	7:A7:13:TYR:HE1	2.28	0.46
10:AA:2:A:O2'	14:AE:199:THR:O	2.27	0.46
10:AA:6:G:C2	10:AA:19:A:N3	2.84	0.46
10:AA:57:U:O2'	10:AA:443:A:N3	2.47	0.46
10:AA:410:G:O2'	10:AA:411:U:H5'	2.15	0.46
10:AA:469:A:C6	10:AA:531:A:N1	2.84	0.46
10:AA:506:U:OP2	13:AD:169:GLU:CG	2.58	0.46
10:AA:759:G:C6	25:AP:9:LYS:HE2	2.47	0.46
10:AA:931:A:P	24:AO:96:LYS:NZ	2.89	0.46
10:AA:1081:G:H8	10:AA:1081:G:C5'	2.17	0.46
10:AA:1106:A:H2'	10:AA:1107:C:O4'	2.16	0.46
10:AA:1454:A:H5"	18:AI:73:GLY:O	2.16	0.46
10:AA:1465:C:O2'	10:AA:1466:C:H5"	2.16	0.46
10:AA:1626:A:C2	10:AA:1627:A:C4	3.04	0.46
10:AA:1703:A:H2'	10:AA:1704:C:C6	2.51	0.46
12:AC:4:THR:O	12:AC:5:THR:C	2.58	0.46
12:AC:20:PHE:O	12:AC:23:GLU:HB2	2.15	0.46
12:AC:228:ARG:HB2	27:AR:207:TYR:CE2	2.49	0.46
13:AD:15:PRO:CG	13:AD:23:ARG:NH1	2.79	0.46
14:AE:27:TRP:CD1	14:AE:38:LYS:HD3	2.50	0.46
14:AE:154:THR:CG2	14:AE:155:ILE:HG13	2.43	0.46
14:AE:157:GLN:HE21	14:AE:225:TYR:HB3	1.79	0.46
15:AF:48:MET:CE	15:AF:71:ILE:HG23	2.46	0.46
16:AG:174:ASN:CB	16:AG:182:SER:O	2.63	0.46
19:AJ:94:ASN:C	19:AJ:96:PRO:HD2	2.41	0.46
21:AL:21:ASP:C	21:AL:23:ARG:H	2.23	0.46
27:AR:102:LEU:HD11	27:AR:114:PHE:CZ	2.51	0.46
28:AS:42:PHE:HE2	28:AS:118:GLY:HA2	1.77	0.46
29:AT:75:GLY:C	29:AT:79:LEU:HD12	2.41	0.46
29:AT:119:LYS:CE	29:AT:130:ARG:NH1	2.78	0.46
31:AV:102:THR:O	31:AV:106:LEU:HG	2.16	0.46
32:AW:163:LYS:HB3	32:AW:172:GLU:O	2.15	0.46
33:AX:33:GLY:C	33:AX:35:SER:N	2.72	0.46
34:AY:102:VAL:CG1	34:AY:109:LEU:HD11	2.45	0.46
1:B1:48:ALA:HB3	16:BG:139:MET:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:49:ARG:HB2	2:B2:68:LEU:HD23	1.96	0.46
2:B2:169:SER:O	2:B2:170:GLN:CB	2.63	0.46
2:B2:185:ARG:NH2	10:BA:202:U:O2	2.49	0.46
3:B3:112:GLN:O	3:B3:114:PRO:HD3	2.16	0.46
3:B3:154:GLN:C	3:B3:155:LEU:HD23	2.41	0.46
7:B7:61:TRP:NE1	12:BC:26:SER:HB3	2.30	0.46
9:B9:101:TYR:HE2	30:BU:37:GLU:OE2	1.99	0.46
10:BA:44:U:O2	10:BA:425:A:N3	2.48	0.46
10:BA:89:A:N7	10:BA:389:G:C5	2.84	0.46
10:BA:150:A:C6	10:BA:409:G:O6	2.69	0.46
10:BA:157:G:O5'	10:BA:157:G:C8	2.68	0.46
10:BA:193:C:H2'	10:BA:194:G:C8	2.51	0.46
10:BA:295:U:H1'	26:BQ:68:LYS:CD	2.46	0.46
10:BA:444:A:H3'	10:BA:445:U:H6	1.76	0.46
10:BA:624:A:H2'	10:BA:625:G:H5'	1.98	0.46
10:BA:796:U:O2'	10:BA:797:A:OP1	2.27	0.46
10:BA:857:G:H4'	24:BO:110:ASP:HA	1.96	0.46
10:BA:879:G:C6	10:BA:880:G:N1	2.84	0.46
10:BA:882:G:N7	10:BA:883:A:C5	2.84	0.46
10:BA:1088:A:C2'	10:BA:1089:U:OP1	2.64	0.46
10:BA:1144:A:H2'	10:BA:1145:C:C6	2.50	0.46
10:BA:1370:U:C6	10:BA:1370:U:C3'	2.99	0.46
10:BA:1748:U:O2'	10:BA:1749:C:H5'	2.15	0.46
11:BB:75:ARG:O	11:BB:79:GLN:HG2	2.16	0.46
14:BE:107:ASP:C	14:BE:109:ASN:N	2.61	0.46
15:BF:83:GLN:HG2	15:BF:87:GLU:OE1	2.15	0.46
16:BG:62:PRO:O	16:BG:63:ILE:C	2.59	0.46
16:BG:146:ILE:O	16:BG:147:TYR:C	2.58	0.46
16:BG:153:CYS:HA	16:BG:167:THR:CG2	2.44	0.46
18:BI:101:GLU:HG2	27:BR:71:ALA:HB2	1.97	0.46
22:BM:35:ILE:O	22:BM:37:GLY:N	2.48	0.46
22:BM:63:GLU:HA	22:BM:66:CYS:HB2	1.98	0.46
26:BQ:117:LYS:HD3	26:BQ:120:ASP:OD2	2.15	0.46
27:BR:82:LEU:HD21	27:BR:93:SER:HB3	1.98	0.46
30:BU:113:THR:HG22	30:BU:114:GLU:N	2.31	0.46
32:BW:176:HIS:CD2	32:BW:176:HIS:H	2.34	0.46
34:BY:121:ILE:HB	34:BY:124:LEU:HD12	1.96	0.46
34:BY:153:PRO:HG2	34:BY:154:ILE:HG13	1.98	0.46
2:A2:22:ARG:O	2:A2:22:ARG:HG3	2.15	0.46
2:A2:176:ILE:HG22	2:A2:177:THR:N	2.30	0.46
2:A2:197:GLU:O	2:A2:201:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:152:ARG:HG3	3:A3:154:GLN:NE2	2.31	0.46
5:A5:5:ARG:HB2	5:A5:8:ALA:HA	1.97	0.46
5:A5:46:ASP:O	5:A5:50:LYS:HG3	2.16	0.46
5:A5:97:ARG:O	5:A5:98:ARG:HB2	2.16	0.46
7:A7:55:LEU:CD1	7:A7:68:LEU:HA	2.45	0.46
10:AA:75:C:C1'	34:AY:178:LYS:CG	2.88	0.46
10:AA:90:U:P	32:AW:3:ARG:HB2	2.56	0.46
10:AA:133:A:H61	10:AA:169:G:C2'	2.28	0.46
10:AA:332:A:H2'	10:AA:333:C:H6	1.81	0.46
10:AA:360:U:O2'	10:AA:361:A:P	2.73	0.46
10:AA:455:C:H5'	10:AA:455:C:C6	2.32	0.46
10:AA:595:A:OP2	21:AL:108:ARG:NH1	2.49	0.46
10:AA:603:U:O4	21:AL:25:ALA:C	2.58	0.46
10:AA:630:A:H5"	17:AH:31:SER:HB3	1.97	0.46
10:AA:872:A:H2'	10:AA:873:G:H5'	1.97	0.46
10:AA:1039:C:O2'	10:AA:1040:C:H5'	2.15	0.46
10:AA:1110:A:H1'	10:AA:1111:A:C1'	2.46	0.46
10:AA:1122:G:C6	10:AA:1124:A:N6	2.84	0.46
10:AA:1360:U:HO2'	10:AA:1361:A:H8	1.62	0.46
10:AA:1601:G:H2'	10:AA:1602:U:H6	1.81	0.46
10:AA:1659:C:H6	10:AA:1659:C:O5'	1.99	0.46
13:AD:11:THR:O	13:AD:47:MET:HG2	2.16	0.46
13:AD:109:LEU:HD22	13:AD:141:VAL:CG1	2.46	0.46
16:AG:57:ARG:O	16:AG:59:THR:N	2.48	0.46
18:AI:102:ASN:CG	27:AR:67:ILE:CG2	2.89	0.46
25:AP:27:HIS:O	25:AP:29:ASP:N	2.49	0.46
25:AP:76:ASN:C	25:AP:78:GLN:N	2.69	0.46
25:AP:107:GLU:O	25:AP:110:ARG:CB	2.60	0.46
26:AQ:31:VAL:HG12	26:AQ:32:ARG:N	2.31	0.46
27:AR:14:ARG:HE	27:AR:337:SER:CB	2.29	0.46
27:AR:85:SER:O	27:AR:86:GLN:C	2.58	0.46
27:AR:233:LYS:C	27:AR:235:LYS:N	2.71	0.46
30:AU:35:THR:CG2	30:AU:41:ALA:HB2	2.45	0.46
2:B2:136:THR:HG21	2:B2:153:ARG:NH1	2.30	0.46
4:B4:39:PRO:HG3	4:B4:192:LYS:CB	2.42	0.46
4:B4:45:PHE:HD1	4:B4:46:GLY:N	2.14	0.46
6:B6:24:GLN:OE1	17:BH:57:ARG:NH2	2.48	0.46
10:BA:5:U:OP2	14:BE:205:THR:CG2	2.64	0.46
10:BA:126:A:H2'	10:BA:126:A:N3	2.30	0.46
10:BA:187:U:O2'	10:BA:188:G:C8	2.69	0.46
10:BA:226:A:H5'	10:BA:227:G:OP2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:240:G:H1'	32:BW:133:ILE:HG23	1.97	0.46
10:BA:398:A:OP1	34:BY:94:ARG:HD3	2.16	0.46
10:BA:588:A:C4'	10:BA:589:G:O5'	2.62	0.46
10:BA:782:A:N7	10:BA:783:U:C5	2.84	0.46
10:BA:897:A:H2'	10:BA:898:U:C6	2.48	0.46
10:BA:1329:G:H2'	10:BA:1330:U:C6	2.50	0.46
12:BC:141:ILE:HG22	12:BC:185:MET:CE	2.44	0.46
13:BD:5:TYR:C	13:BD:6:ILE:O	2.56	0.46
19:BJ:45:THR:HB	19:BJ:48:VAL:HG21	1.97	0.46
20:BK:56:VAL:HG23	20:BK:81:VAL:HG22	1.98	0.46
20:BK:91:ASN:HD22	20:BK:125:LYS:HD2	1.80	0.46
24:BO:123:ARG:O	24:BO:126:ARG:HB2	2.14	0.46
25:BP:15:LEU:HD23	32:BW:96:LYS:HB2	1.98	0.46
27:BR:159:GLU:HB3	27:BR:199:TRP:CH2	2.51	0.46
29:BT:82:ILE:O	29:BT:82:ILE:CG2	2.64	0.46
33:BX:7:THR:O	33:BX:8:LEU:HB2	2.16	0.46
34:BY:31:LYS:HB2	34:BY:34:GLN:NE2	2.31	0.46
34:BY:62:PRO:O	34:BY:97:VAL:HG13	2.16	0.46
35:BZ:96:GLN:O	35:BZ:97:GLU:C	2.58	0.46
3:A3:194:THR:O	3:A3:195:PHE:C	2.56	0.46
4:A4:40:PHE:N	4:A4:40:PHE:CD1	2.84	0.46
5:A5:2:PRO:HG3	10:AA:1116:A:P	2.55	0.46
5:A5:53:ILE:CD1	20:AK:116:LEU:HD22	2.46	0.46
5:A5:58:ALA:HB3	20:AK:126:ILE:O	2.15	0.46
6:A6:62:CYS:HB3	6:A6:69:VAL:CG1	2.46	0.46
7:A7:54:PHE:HB3	7:A7:72:GLY:HA2	1.98	0.46
7:A7:55:LEU:HD12	7:A7:68:LEU:HA	1.97	0.46
9:A9:153:UNK:C	9:A9:156:UNK:HG3	2.46	0.46
10:AA:80:A:C2'	10:AA:81:A:O4'	2.62	0.46
10:AA:188:G:C5	10:AA:190:G:H1'	2.51	0.46
10:AA:194:G:O2'	10:AA:195:G:H5'	2.16	0.46
10:AA:235:A:C2	10:AA:814:A:C6	3.04	0.46
10:AA:315:U:H2'	10:AA:316:G:C8	2.50	0.46
10:AA:341:G:H4'	10:AA:342:U:OP2	2.15	0.46
10:AA:344:A:H3'	10:AA:345:C:C6	2.51	0.46
10:AA:728:U:H2'	10:AA:729:U:C5'	2.46	0.46
10:AA:761:U:N3	25:AP:7:THR:CG2	2.70	0.46
10:AA:904:A:H2'	10:AA:905:C:C6	2.48	0.46
10:AA:1000:U:C4'	10:AA:1097:A:N6	2.79	0.46
10:AA:1021:A:H2'	10:AA:1022:U:O4'	2.16	0.46
10:AA:1064:A:C2	10:AA:1066:G:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1110:A:O2'	10:AA:1111:A:H5"	2.16	0.46
10:AA:1170:G:H3'	10:AA:1171:G:H5'	1.98	0.46
10:AA:1198:A:N3	10:AA:1228:A:C2	2.84	0.46
10:AA:1442:A:OP2	16:AG:159:LYS:HE2	2.15	0.46
10:AA:1474:G:H5"	29:AT:102:LYS:HG2	1.97	0.46
10:AA:1495:U:O2'	10:AA:1496:A:C5'	2.64	0.46
10:AA:1580:U:H2'	10:AA:1581:U:H6	1.80	0.46
14:AE:210:ASN:HD22	14:AE:210:ASN:HA	1.53	0.46
17:AH:11:LEU:O	17:AH:14:LEU:HB3	2.16	0.46
18:AI:41:ILE:HG22	18:AI:42:ASN:N	2.30	0.46
18:AI:121:ALA:O	18:AI:123:PRO:CD	2.63	0.46
21:AL:129:ILE:O	21:AL:130:SER:C	2.59	0.46
27:AR:33:GLN:NE2	27:AR:87:GLU:HA	2.31	0.46
27:AR:212:HIS:CD2	27:AR:212:HIS:N	2.84	0.46
27:AR:238:LEU:HD23	27:AR:240:TRP:CZ2	2.51	0.46
27:AR:338:PHE:N	27:AR:338:PHE:CD1	2.84	0.46
32:AW:77:LYS:NZ	32:AW:147:ARG:HH12	2.14	0.46
35:AZ:82:ALA:O	35:AZ:86:ILE:HG13	2.15	0.46
2:B2:35:MET:HE3	2:B2:37:LYS:HG3	1.96	0.46
4:B4:134:ASP:OD1	4:B4:186:GLY:HA2	2.16	0.46
7:B7:60:ASN:HB2	12:BC:26:SER:OG	2.15	0.46
10:BA:99:A:C5	10:BA:300:C:C4	3.04	0.46
10:BA:100:A:O2'	10:BA:101:A:OP2	2.29	0.46
10:BA:124:U:O2	10:BA:124:U:C2'	2.63	0.46
10:BA:197:A:H2'	10:BA:198:C:H5'	1.97	0.46
10:BA:328:G:H2'	26:BQ:132:LYS:HZ3	1.78	0.46
10:BA:562:G:O2'	10:BA:563:C:H5'	2.16	0.46
10:BA:670:G:H2'	10:BA:671:A:O4'	2.16	0.46
10:BA:932:G:C5'	24:BO:7:LYS:NZ	2.78	0.46
10:BA:1045:G:O2'	10:BA:1046:G:H5'	2.16	0.46
10:BA:1170:G:H3'	10:BA:1171:G:H5'	1.98	0.46
10:BA:1171:G:C4	23:BN:29:LEU:HB2	2.51	0.46
10:BA:1452:G:H3'	10:BA:1453:C:C5'	2.45	0.46
12:BC:109:ASN:HD21	12:BC:178:VAL:HG13	1.80	0.46
13:BD:120:ASN:H	13:BD:124:HIS:HD2	1.56	0.46
13:BD:129:ILE:HD13	13:BD:129:ILE:H	1.80	0.46
14:BE:41:LYS:NZ	14:BE:247:PHE:CD1	2.83	0.46
16:BG:171:GLU:OE2	16:BG:183:SER:HB2	2.16	0.46
17:BH:30:VAL:HG11	17:BH:35:LEU:HD21	1.97	0.46
21:BL:42:PHE:HZ	21:BL:103:VAL:HG23	1.79	0.46
22:BM:50:LEU:O	22:BM:52:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BM:84:TRP:CZ3	22:BM:85:LEU:HD21	2.51	0.46
28:BS:46:THR:CG2	28:BS:89:ILE:HD13	2.41	0.46
28:BS:98:ILE:HG22	28:BS:111:GLU:HG2	1.96	0.46
29:BT:15:ALA:HB2	29:BT:66:ARG:CZ	2.45	0.46
32:BW:188:GLY:C	32:BW:190:ASN:H	2.22	0.46
33:BX:44:ARG:HA	33:BX:49:ILE:HD12	1.98	0.46
35:BZ:30:ARG:HH21	35:BZ:39:ILE:HG21	1.81	0.46
2:A2:87:LEU:HG	2:A2:88:ASP:N	2.31	0.46
3:A3:190:LYS:NZ	6:A6:23:ILE:HD12	2.31	0.46
5:A5:13:LYS:HD3	5:A5:13:LYS:HA	1.83	0.46
8:A8:34:LYS:HD3	8:A8:36:LYS:CB	2.46	0.46
10:AA:14:C:N3	10:AA:15:U:C5	2.83	0.46
10:AA:84:U:H6	10:AA:84:U:C5'	2.22	0.46
10:AA:217:A:C6	10:AA:820:U:N3	2.84	0.46
10:AA:449:G:C2'	10:AA:450:G:H5'	2.46	0.46
10:AA:499:A:H4'	33:AX:28:ARG:HE	1.81	0.46
10:AA:847:A:H4'	24:AO:92:PHE:CE2	2.51	0.46
10:AA:996:U:OP1	24:AO:109:LYS:NZ	2.47	0.46
10:AA:1265:U:O2'	11:AB:106:ASN:ND2	2.49	0.46
10:AA:1360:U:H2'	31:AV:3:ARG:HH12	1.78	0.46
10:AA:1475:G:H2'	10:AA:1476:A:C8	2.51	0.46
11:AB:46:ILE:HG13	31:AV:105:MET:SD	2.55	0.46
12:AC:9:ASN:O	12:AC:11:LYS:N	2.49	0.46
13:AD:40:ARG:O	13:AD:43:TRP:N	2.46	0.46
16:AG:117:ARG:HE	16:AG:189:LYS:HZ3	1.64	0.46
17:AH:87:GLU:O	17:AH:91:ASN:ND2	2.44	0.46
17:AH:121:THR:HG22	17:AH:122:GLY:O	2.15	0.46
18:AI:15:LYS:O	18:AI:16:LYS:C	2.58	0.46
19:AJ:85:TYR:CD1	19:AJ:85:TYR:N	2.84	0.46
23:AN:39:ARG:NH1	23:AN:39:ARG:HG2	2.31	0.46
24:AO:107:ASN:C	24:AO:109:LYS:N	2.73	0.46
24:AO:132:LYS:O	26:AQ:147:ILE:HD13	2.16	0.46
27:AR:16:ILE:HG23	27:AR:332:VAL:HG13	1.97	0.46
29:AT:43:THR:HG1	29:AT:50:ALA:HA	1.78	0.46
31:AV:46:LEU:CD2	31:AV:50:ILE:HD11	2.45	0.46
33:AX:62:TRP:C	33:AX:64:ALA:H	2.23	0.46
34:AY:19:ASP:O	34:AY:20:ASP:C	2.58	0.46
34:AY:55:GLY:HA3	34:AY:63:MET:SD	2.55	0.46
34:AY:127:VAL:CG1	34:AY:129:LEU:HG	2.45	0.46
2:B2:87:LEU:HG	2:B2:88:ASP:N	2.31	0.46
4:B4:69:GLU:CD	4:B4:69:GLU:O	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:232:G:H2'	10:BA:233:U:O4'	2.15	0.46
10:BA:372:C:H5'	10:BA:372:C:C6	2.50	0.46
10:BA:611:U:C6	10:BA:1009:U:O2	2.69	0.46
10:BA:761:U:H4'	10:BA:762:U:C5'	2.46	0.46
10:BA:878:A:C5'	20:BK:39:ASP:OD2	2.65	0.46
10:BA:937:U:H1'	24:BO:63:PRO:HB2	1.98	0.46
10:BA:1006:C:O2'	10:BA:1007:U:H5"	2.16	0.46
10:BA:1049:C:O2'	10:BA:1050:C:H5'	2.16	0.46
10:BA:1310:C:H1'	10:BA:1381:A:C4	2.51	0.46
10:BA:1465:C:O2'	10:BA:1466:C:H5"	2.14	0.46
10:BA:1495:U:OP2	29:BT:71:LYS:NZ	2.49	0.46
10:BA:1500:C:H5"	16:BG:86:LYS:HE3	1.98	0.46
10:BA:1513:G:H2'	10:BA:1514:G:H1'	1.98	0.46
10:BA:1610:G:C6	10:BA:1611:C:C2	3.04	0.46
11:BB:99:TRP:NE1	11:BB:129:ALA:HB2	2.30	0.46
12:BC:228:ARG:O	12:BC:228:ARG:HG3	2.15	0.46
16:BG:13:LEU:C	16:BG:15:GLY:H	2.23	0.46
16:BG:86:LYS:O	16:BG:89:LYS:N	2.49	0.46
20:BK:35:ALA:O	20:BK:109:GLY:N	2.49	0.46
20:BK:43:HIS:HE1	20:BK:52:THR:CG2	2.28	0.46
20:BK:45:THR:HG22	20:BK:46:ASP:N	2.30	0.46
22:BM:41:ARG:NH2	29:BT:42:THR:HA	2.31	0.46
22:BM:97:ASN:C	22:BM:98:TYR:CD1	2.94	0.46
24:BO:6:MET:HE1	24:BO:119:LEU:HA	1.97	0.46
24:BO:96:LYS:O	24:BO:100:ILE:CD1	2.63	0.46
27:BR:96:TRP:HA	27:BR:120:GLU:CB	2.46	0.46
27:BR:266:LYS:HB2	27:BR:267:LEU:HD12	1.97	0.46
27:BR:299:ILE:HG13	27:BR:330:ASP:HB2	1.98	0.46
29:BT:22:TYR:CD1	29:BT:22:TYR:O	2.69	0.46
29:BT:32:LEU:HD23	29:BT:32:LEU:N	2.24	0.46
30:BU:12:LEU:HD23	30:BU:82:TYR:HE2	1.81	0.46
30:BU:108:TYR:OH	30:BU:120:ILE:HG21	2.16	0.46
31:BV:13:ALA:HB1	31:BV:54:ALA:HA	1.98	0.46
2:A2:62:LYS:HD3	2:A2:62:LYS:HA	1.67	0.45
2:A2:78:GLU:O	2:A2:79:ASN:CB	2.62	0.45
4:A4:69:GLU:HB2	4:A4:86:LYS:CE	2.46	0.45
4:A4:122:THR:OG1	4:A4:161:TYR:HA	2.15	0.45
6:A6:32:ASP:HB3	6:A6:41:ILE:HG23	1.98	0.45
8:A8:60:VAL:HG22	8:A8:72:LYS:HG3	1.98	0.45
9:A9:158:UNK:HA	9:A9:161:UNK:HG3	1.98	0.45
10:AA:197:A:H2'	10:AA:198:C:H5'	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:475:C:N4	10:AA:476:U:C4	2.84	0.45
10:AA:490:U:O2'	10:AA:491:U:H5'	2.16	0.45
10:AA:570:G:O4'	10:AA:574:A:H2	1.99	0.45
10:AA:1231:C:O2'	10:AA:1232:U:H5'	2.16	0.45
10:AA:1452:G:H3'	10:AA:1453:C:C5'	2.46	0.45
10:AA:1463:U:O2	10:AA:1463:U:C2'	2.61	0.45
10:AA:1496:A:H2	10:AA:1562:G:N3	2.14	0.45
10:AA:1528:A:C2'	10:AA:1532:U:OP2	2.55	0.45
10:AA:1663:A:H2'	10:AA:1664:A:H8	1.81	0.45
10:AA:1734:A:H2'	10:AA:1735:A:C8	2.51	0.45
12:AC:14:PHE:O	12:AC:17:ASP:HB2	2.16	0.45
12:AC:145:LEU:CD1	12:AC:153:MET:HB2	2.46	0.45
13:AD:38:ASN:HD22	13:AD:40:ARG:HG2	1.81	0.45
14:AE:168:ILE:HD12	14:AE:215:THR:N	2.31	0.45
18:AI:46:LEU:O	18:AI:49:LYS:HB2	2.16	0.45
21:AL:81:LYS:HD2	21:AL:81:LYS:C	2.41	0.45
22:AM:21:ASN:OD1	22:AM:35:ILE:HA	2.15	0.45
23:AN:6:TRP:CZ3	23:AN:7:ARG:HG2	2.51	0.45
25:AP:46:LEU:O	25:AP:47:LYS:HB2	2.17	0.45
25:AP:119:ALA:C	25:AP:123:LEU:HD13	2.41	0.45
29:AT:41:THR:HG23	29:AT:50:ALA:CB	2.47	0.45
32:AW:249:THR:CG2	32:AW:251:LEU:HB2	2.47	0.45
33:AX:25:ASP:O	33:AX:26:LYS:C	2.59	0.45
2:B2:62:LYS:HD3	2:B2:62:LYS:HA	1.69	0.45
2:B2:130:GLY:O	2:B2:131:LEU:C	2.57	0.45
3:B3:138:GLY:C	3:B3:154:GLN:HG2	2.40	0.45
4:B4:88:LYS:O	4:B4:104:TYR:HB3	2.17	0.45
10:BA:197:A:C2'	10:BA:198:C:H5'	2.46	0.45
10:BA:628:G:H4'	17:BH:4:VAL:HG12	1.96	0.45
10:BA:1073:G:OP2	17:BH:12:LYS:NZ	2.35	0.45
10:BA:1535:A:OP1	29:BT:87:LYS:NZ	2.39	0.45
10:BA:1566:G:N1	10:BA:1572:A:N6	2.64	0.45
12:BC:38:ALA:HB2	12:BC:94:ILE:CD1	2.42	0.45
13:BD:1:MET:N	13:BD:1:MET:HE2	2.30	0.45
17:BH:4:VAL:O	17:BH:5:ASN:C	2.58	0.45
17:BH:88:LYS:O	17:BH:92:ASN:HB2	2.17	0.45
18:BI:8:LEU:HD12	18:BI:24:VAL:O	2.16	0.45
22:BM:45:ILE:CD1	22:BM:85:LEU:HD13	2.47	0.45
24:BO:101:ARG:HH12	24:BO:145:ALA:CB	2.29	0.45
25:BP:115:THR:CG2	25:BP:116:SER:N	2.79	0.45
25:BP:123:LEU:H	25:BP:123:LEU:CD1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BT:22:TYR:O	29:BT:22:TYR:HD1	1.97	0.45
30:BU:17:LYS:C	30:BU:17:LYS:HD3	2.41	0.45
32:BW:120:GLU:C	32:BW:122:LYS:N	2.74	0.45
34:BY:68:MET:O	34:BY:69:VAL:HG23	2.15	0.45
35:BZ:37:LYS:HE2	35:BZ:38:LEU:O	2.16	0.45
2:A2:154:THR:O	2:A2:154:THR:CG2	2.64	0.45
2:A2:179:ARG:HG2	10:AA:321:U:OP1	2.16	0.45
3:A3:110:SER:C	10:AA:793:G:O2'	2.58	0.45
3:A3:196:LYS:HD3	3:A3:196:LYS:C	2.41	0.45
8:A8:72:LYS:C	8:A8:73:LEU:HD23	2.41	0.45
8:A8:79:LEU:O	8:A8:83:LEU:HG	2.16	0.45
10:AA:72:G:C4	10:AA:76:A:C4	3.05	0.45
10:AA:226:A:H5'	10:AA:227:G:OP2	2.16	0.45
10:AA:642:G:C2'	10:AA:643:U:C5'	2.94	0.45
10:AA:734:U:O2	10:AA:735:G:C8	2.69	0.45
10:AA:897:A:H2'	10:AA:898:U:C6	2.48	0.45
10:AA:993:U:H5"	10:AA:994:C:OP2	2.17	0.45
10:AA:1199:G:O2'	10:AA:1200:G:P	2.74	0.45
10:AA:1224:C:H2'	10:AA:1225:U:H6	1.81	0.45
10:AA:1241:U:O4	23:AN:27:GLN:NE2	2.48	0.45
10:AA:1313:G:O2'	10:AA:1314:C:H5'	2.16	0.45
10:AA:1370:U:C6	10:AA:1370:U:C3'	2.99	0.45
10:AA:1435:G:C2	10:AA:1436:C:C5	3.03	0.45
10:AA:1563:C:H6	10:AA:1563:C:O5'	2.00	0.45
10:AA:1569:A:H2'	10:AA:1570:U:O4'	2.16	0.45
10:AA:1651:G:H1'	10:AA:1674:A:H62	1.81	0.45
12:AC:38:ALA:HB2	12:AC:94:ILE:CD1	2.43	0.45
13:AD:132:ARG:C	13:AD:134:ILE:N	2.70	0.45
15:AF:48:MET:SD	15:AF:59:ALA:HB1	2.56	0.45
15:AF:78:ARG:HH12	15:AF:100:GLY:HA3	1.79	0.45
16:AG:13:LEU:HB2	16:AG:19:TYR:HE1	1.80	0.45
18:AI:31:LEU:HD13	18:AI:38:ILE:CD1	2.36	0.45
19:AJ:66:ARG:HE	19:AJ:77:TRP:HH2	1.59	0.45
24:AO:103:HIS:CE1	24:AO:107:ASN:ND2	2.84	0.45
24:AO:127:LEU:HD12	24:AO:131:TYR:CD2	2.50	0.45
25:AP:119:ALA:O	25:AP:120:ILE:C	2.58	0.45
25:AP:132:TRP:O	25:AP:136:GLN:HG2	2.17	0.45
26:AQ:146:ILE:HG23	26:AQ:153:GLN:NE2	2.24	0.45
29:AT:15:ALA:HB3	29:AT:66:ARG:CZ	2.46	0.45
32:AW:42:LEU:C	32:AW:42:LEU:HD13	2.40	0.45
2:B2:105:VAL:H	2:B2:108:SER:HG	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B4:163:LYS:O	4:B4:166:GLN:N	2.45	0.45
5:B5:77:ILE:O	5:B5:78:SER:C	2.59	0.45
7:B7:10:ILE:CG2	7:B7:14:LYS:HE3	2.42	0.45
10:BA:3:C:H41	13:BD:16:ARG:HB2	1.80	0.45
10:BA:69:A:H2'	10:BA:70:U:H5"	1.97	0.45
10:BA:72:G:N3	10:BA:76:A:C2	2.84	0.45
10:BA:295:U:H1'	26:BQ:68:LYS:HD3	1.99	0.45
10:BA:490:U:O2'	10:BA:491:U:H5'	2.16	0.45
10:BA:866:U:C2'	10:BA:867:U:H5"	2.47	0.45
10:BA:1366:G:C2	10:BA:1373:G:N2	2.83	0.45
10:BA:1409:G:C6	10:BA:1410:C:C4	3.04	0.45
10:BA:1699:A:O2'	10:BA:1700:A:H8	1.99	0.45
13:BD:10:LYS:HD2	13:BD:10:LYS:H	1.82	0.45
14:BE:225:TYR:CD1	14:BE:225:TYR:C	2.94	0.45
17:BH:30:VAL:HG13	17:BH:34:VAL:HB	1.98	0.45
17:BH:102:VAL:CB	17:BH:113:HIS:HB2	2.41	0.45
20:BK:29:GLY:O	20:BK:93:LEU:HA	2.16	0.45
20:BK:150:ARG:O	20:BK:151:LEU:CB	2.64	0.45
22:BM:61:LEU:HB3	22:BM:65:GLN:CG	2.45	0.45
22:BM:125:LEU:HD23	22:BM:129:TRP:NE1	2.31	0.45
27:BR:174:MET:HE2	27:BR:180:VAL:HG22	1.99	0.45
28:BS:55:SER:HB2	28:BS:58:TYR:CE2	2.50	0.45
29:BT:42:THR:O	29:BT:43:THR:C	2.59	0.45
31:BV:5:ARG:HG2	31:BV:10:LYS:HE2	1.98	0.45
32:BW:201:GLU:CD	32:BW:201:GLU:H	2.24	0.45
34:BY:18:ILE:HD13	34:BY:41:LEU:HD21	1.97	0.45
2:A2:29:LYS:HZ3	10:AA:391:A:N6	2.08	0.45
3:A3:81:ILE:O	3:A3:85:GLU:HG3	2.16	0.45
9:A9:154:UNK:CA	9:A9:157:UNK:HG3	2.45	0.45
10:AA:82:A:H2'	10:AA:83:C:C6	2.51	0.45
10:AA:128:A:C2'	10:AA:129:G:H5'	2.46	0.45
10:AA:332:A:H2'	10:AA:333:C:C6	2.51	0.45
10:AA:388:A:H2'	10:AA:389:G:O4'	2.16	0.45
10:AA:506:U:H5'	13:AD:131:GLN:HB3	1.97	0.45
10:AA:613:A:O5'	10:AA:614:A:OP1	2.35	0.45
10:AA:1006:C:O2'	10:AA:1007:U:H5"	2.16	0.45
10:AA:1153:U:C2	10:AA:1157:U:H5	2.33	0.45
10:AA:1454:A:C5'	18:AI:73:GLY:O	2.65	0.45
10:AA:1562:G:C2	10:AA:1579:G:C2	3.04	0.45
10:AA:1584:U:O2'	10:AA:1585:U:H5'	2.16	0.45
10:AA:1621:G:N3	10:AA:1705:A:C2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1718:A:O4'	10:AA:1718:A:N3	2.49	0.45
10:AA:1742:G:H8	10:AA:1742:G:H5"	1.81	0.45
10:AA:1746:G:H4'	10:AA:1747:A:OP1	2.16	0.45
11:AB:121:THR:HG22	11:AB:143:LEU:HD12	1.98	0.45
12:AC:15:VAL:CG1	12:AC:16:ALA:N	2.80	0.45
12:AC:74:GLN:HA	12:AC:77:GLN:NE2	2.31	0.45
14:AE:184:ILE:CG2	14:AE:212:LEU:HD21	2.45	0.45
14:AE:205:THR:O	14:AE:206:ARG:C	2.56	0.45
14:AE:228:PRO:O	14:AE:230:PHE:N	2.49	0.45
16:AG:34:ALA:HB1	16:AG:62:PRO:HA	1.97	0.45
16:AG:62:PRO:O	16:AG:63:ILE:C	2.59	0.45
16:AG:147:TYR:C	16:AG:147:TYR:CD1	2.94	0.45
19:AJ:61:LEU:HD12	19:AJ:82:MET:HE2	1.97	0.45
20:AK:61:LYS:HE3	20:AK:76:GLN:HB3	1.99	0.45
23:AN:22:VAL:C	23:AN:24:GLY:N	2.75	0.45
25:AP:43:ALA:O	25:AP:47:LYS:N	2.48	0.45
29:AT:32:LEU:HD11	29:AT:58:TYR:CZ	2.51	0.45
29:AT:36:GLU:HG3	29:AT:37:PHE:N	2.31	0.45
30:AU:17:LYS:HD3	30:AU:17:LYS:C	2.41	0.45
30:AU:46:VAL:HG22	30:AU:59:VAL:HG11	1.98	0.45
33:AX:8:LEU:C	33:AX:10:LYS:H	2.25	0.45
34:AY:213:GLU:HA	34:AY:213:GLU:OE1	2.16	0.45
2:B2:175:CYS:HB3	2:B2:189:TYR:CE1	2.51	0.45
3:B3:129:ASP:O	3:B3:132:LEU:HD13	2.16	0.45
4:B4:73:ALA:HB3	20:BK:128:ARG:HH22	1.79	0.45
9:B9:153:UNK:C	9:B9:156:UNK:HG3	2.46	0.45
10:BA:9:U:C2	10:BA:11:A:H5"	2.51	0.45
10:BA:134:C:H2'	10:BA:134:C:O2	2.16	0.45
10:BA:682:C:H2'	10:BA:683:A:O4'	2.16	0.45
10:BA:879:G:OP2	20:BK:39:ASP:CB	2.64	0.45
10:BA:1008:A:C4'	10:BA:1009:U:OP2	2.63	0.45
10:BA:1042:G:H2'	10:BA:1043:U:O4'	2.16	0.45
10:BA:1054:U:C5'	10:BA:1055:G:OP1	2.64	0.45
10:BA:1516:U:O2'	22:BM:148:CYS:O	2.29	0.45
10:BA:1532:U:O5'	10:BA:1532:U:H6	2.00	0.45
10:BA:1569:A:H2'	10:BA:1570:U:O4'	2.15	0.45
10:BA:1644:C:O5'	10:BA:1644:C:H6	1.99	0.45
11:BB:85:PHE:CD2	11:BB:171:TYR:HD1	2.34	0.45
13:BD:130:ARG:C	13:BD:132:ARG:H	2.25	0.45
13:BD:171:ARG:CB	13:BD:175:LYS:HZ2	2.30	0.45
14:BE:41:LYS:HD3	14:BE:244:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BI:62:PHE:CD1	18:BI:62:PHE:C	2.95	0.45
25:BP:112:ILE:HG23	25:BP:120:ILE:HG23	1.98	0.45
26:BQ:78:LYS:O	26:BQ:79:MET:HB2	2.17	0.45
27:BR:159:GLU:HB3	27:BR:199:TRP:CZ3	2.51	0.45
32:BW:94:ILE:O	32:BW:95:GLU:C	2.60	0.45
2:A2:192:GLU:C	2:A2:196:LEU:HB2	2.42	0.45
4:A4:95:ASP:O	4:A4:96:GLY:O	2.35	0.45
4:A4:163:LYS:O	4:A4:166:GLN:N	2.45	0.45
5:A5:15:ARG:HB3	10:AA:915:C:N4	2.30	0.45
10:AA:210:A:H8	10:AA:210:A:O5'	1.99	0.45
10:AA:269:G:N2	10:AA:275:C:C2	2.85	0.45
10:AA:580:G:H2'	10:AA:581:C:C6	2.50	0.45
10:AA:583:C:O2'	33:AX:61:ASN:HB2	2.17	0.45
10:AA:734:U:H2'	10:AA:735:G:C8	2.44	0.45
10:AA:782:A:N7	10:AA:783:U:C5	2.84	0.45
10:AA:835:U:H2'	10:AA:836:G:H5'	1.99	0.45
10:AA:845:G:OP1	24:AO:5:GLN:CB	2.64	0.45
10:AA:981:A:O2'	10:AA:982:U:OP2	2.29	0.45
10:AA:1055:G:C6	10:AA:1056:A:N7	2.84	0.45
10:AA:1125:A:N6	10:AA:1126:C:N4	2.64	0.45
10:AA:1310:C:H1'	10:AA:1381:A:C4	2.51	0.45
10:AA:1329:G:H2'	10:AA:1330:U:C6	2.51	0.45
10:AA:1590:C:O2'	10:AA:1591:C:P	2.74	0.45
10:AA:1686:C:O2'	10:AA:1687:C:H5'	2.17	0.45
11:AB:56:ALA:CB	11:AB:157:ILE:HD11	2.46	0.45
11:AB:121:THR:O	11:AB:143:LEU:HB2	2.16	0.45
11:AB:121:THR:CG2	11:AB:143:LEU:HD12	2.47	0.45
12:AC:83:SER:C	12:AC:85:ASP:N	2.74	0.45
12:AC:96:PHE:N	12:AC:96:PHE:CD1	2.84	0.45
13:AD:171:ARG:HB3	13:AD:175:LYS:HZ3	1.79	0.45
14:AE:184:ILE:CG2	14:AE:212:LEU:CD2	2.94	0.45
14:AE:185:PRO:O	14:AE:186:LYS:C	2.58	0.45
16:AG:152:GLY:O	16:AG:153:CYS:C	2.59	0.45
19:AJ:19:VAL:HG21	19:AJ:98:VAL:HG21	1.98	0.45
24:AO:84:PRO:O	24:AO:85:GLN:C	2.59	0.45
25:AP:84:GLU:HA	25:AP:85:PRO:HD3	1.78	0.45
27:AR:144:LEU:HB3	27:AR:153:PHE:H	1.82	0.45
28:AS:95:VAL:CG2	28:AS:117:ILE:HD11	2.46	0.45
29:AT:27:LYS:HG2	29:AT:58:TYR:CD2	2.51	0.45
32:AW:94:ILE:HD12	32:AW:99:GLN:HG3	1.99	0.45
32:AW:249:THR:C	32:AW:251:LEU:N	2.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AY:132:LYS:HZ3	34:AY:163:ARG:HB2	1.82	0.45
34:AY:153:PRO:CG	34:AY:154:ILE:H	2.22	0.45
35:AZ:93:TYR:HB3	35:AZ:94:PRO:HD3	1.98	0.45
3:B3:62:LEU:HD12	3:B3:63:ILE:N	2.31	0.45
5:B5:53:ILE:HD13	20:BK:116:LEU:HD13	1.98	0.45
8:B8:45:ILE:HD12	22:BM:1:MET:CE	2.46	0.45
8:B8:99:ASN:O	8:B8:100:GLY:C	2.58	0.45
9:B9:124:PHE:HD1	9:B9:124:PHE:H	1.65	0.45
10:BA:21:U:O5'	10:BA:21:U:H6	1.99	0.45
10:BA:210:A:H8	10:BA:210:A:O5'	1.99	0.45
10:BA:243:G:C6	10:BA:244:A:C6	3.04	0.45
10:BA:457:G:C2'	10:BA:458:U:H5'	2.46	0.45
10:BA:477:G:C6	10:BA:496:G:C2	3.04	0.45
10:BA:683:A:N1	10:BA:718:A:N1	2.64	0.45
10:BA:745:G:H2'	10:BA:746:A:H8	1.81	0.45
10:BA:774:A:H2'	10:BA:775:C:C6	2.52	0.45
10:BA:803:A:C2	10:BA:830:G:C2	3.03	0.45
10:BA:820:U:O2'	10:BA:821:C:H5'	2.17	0.45
10:BA:839:U:O2'	17:BH:56:HIS:O	2.34	0.45
10:BA:1312:U:H4'	10:BA:1313:G:OP2	2.15	0.45
10:BA:1416:G:O2'	10:BA:1417:A:P	2.75	0.45
10:BA:1572:A:N7	10:BA:1574:C:N4	2.64	0.45
12:BC:36:GLY:O	12:BC:55:ALA:CB	2.65	0.45
14:BE:35:ARG:CZ	14:BE:251:LYS:HB2	2.47	0.45
14:BE:46:ASP:HA	14:BE:49:PHE:HD2	1.79	0.45
14:BE:239:LEU:HG	35:BZ:48:GLN:OE1	2.16	0.45
26:BQ:56:LYS:HD3	26:BQ:130:ILE:HG21	1.98	0.45
27:BR:102:LEU:HG	27:BR:114:PHE:HE1	1.81	0.45
27:BR:102:LEU:HD11	27:BR:114:PHE:CZ	2.51	0.45
28:BS:74:ALA:C	28:BS:76:GLU:N	2.75	0.45
29:BT:40:TRP:CE3	29:BT:40:TRP:HA	2.52	0.45
30:BU:58:LEU:O	30:BU:61:ALA:HB3	2.16	0.45
32:BW:193:ARG:NH1	32:BW:246:VAL:HA	2.32	0.45
33:BX:34:ARG:HB3	33:BX:34:ARG:CZ	2.46	0.45
33:BX:35:SER:O	33:BX:39:ILE:HG13	2.16	0.45
34:BY:181:ARG:NH1	34:BY:181:ARG:CG	2.79	0.45
1:A1:45:VAL:CG1	1:A1:46:LYS:N	2.80	0.45
2:A2:10:LYS:NZ	10:AA:328:G:O2'	2.49	0.45
4:A4:207:THR:C	4:A4:209:ASN:H	2.23	0.45
9:A9:142:LYS:HE2	9:A9:147:UNK:HB1	1.99	0.45
10:AA:21:U:O5'	10:AA:21:U:H6	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:99:A:C5	10:AA:300:C:C4	3.04	0.45
10:AA:246:U:C4'	10:AA:247:C:OP2	2.65	0.45
10:AA:292:G:C5	10:AA:293:U:C5	3.04	0.45
10:AA:470:G:O2'	10:AA:471:C:H5'	2.17	0.45
10:AA:538:A:C2	10:AA:588:A:C5	3.05	0.45
10:AA:683:A:N1	10:AA:718:A:N1	2.65	0.45
10:AA:760:G:N2	10:AA:766:G:C2	2.84	0.45
10:AA:941:A:O4'	10:AA:941:A:OP2	2.35	0.45
10:AA:1241:U:HO2'	10:AA:1242:G:P	2.35	0.45
10:AA:1499:A:C2	18:AI:76:TYR:CZ	3.05	0.45
10:AA:1506:G:O2'	10:AA:1507:U:OP2	2.27	0.45
10:AA:1532:U:O5'	10:AA:1532:U:H6	1.99	0.45
11:AB:26:ASN:ND2	11:AB:28:GLN:HB2	2.31	0.45
12:AC:225:LYS:HE2	27:AR:210:LYS:H	1.81	0.45
14:AE:70:ASP:O	14:AE:72:GLN:HG3	2.17	0.45
14:AE:159:ILE:HD11	14:AE:222:THR:HA	1.99	0.45
17:AH:49:GLU:HG2	17:AH:50:PHE:N	2.31	0.45
17:AH:55:ASP:HB3	17:AH:59:LYS:HA	1.97	0.45
24:AO:101:ARG:HH12	24:AO:145:ALA:CB	2.29	0.45
24:AO:136:LYS:O	24:AO:137:LEU:HB2	2.16	0.45
25:AP:3:ILE:CG2	25:AP:4:VAL:H	2.30	0.45
25:AP:10:ILE:HG12	25:AP:21:LEU:HB2	1.98	0.45
25:AP:104:SER:HB3	25:AP:128:LYS:HE3	1.98	0.45
27:AR:92:ILE:HG22	27:AR:93:SER:N	2.32	0.45
27:AR:221:ILE:HG12	27:AR:228:ILE:HG12	1.98	0.45
29:AT:116:ILE:HG23	29:AT:136:GLY:CA	2.46	0.45
31:AV:101:GLU:O	31:AV:104:GLU:HB2	2.16	0.45
33:AX:34:ARG:HB3	33:AX:34:ARG:CZ	2.44	0.45
34:AY:23:LYS:HZ3	34:AY:41:LEU:HA	1.81	0.45
35:AZ:47:VAL:CG2	35:AZ:48:GLN:N	2.80	0.45
2:B2:105:VAL:HG13	10:BA:320:G:O3'	2.16	0.45
2:B2:175:CYS:HB3	2:B2:189:TYR:CZ	2.52	0.45
4:B4:191:SER:O	4:B4:195:ILE:HG13	2.16	0.45
8:B8:47:LYS:HA	8:B8:50:VAL:CG2	2.47	0.45
9:B9:86:THR:CG2	9:B9:87:LYS:N	2.79	0.45
9:B9:158:UNK:HA	9:B9:161:UNK:CG	2.46	0.45
10:BA:25:A:H61	10:BA:593:A:N6	2.13	0.45
10:BA:272:U:C4	10:BA:273:A:H8	2.33	0.45
10:BA:306:A:HO2'	10:BA:307:G:C4'	2.29	0.45
10:BA:336:U:H4'	10:BA:337:G:O5'	2.15	0.45
10:BA:514:G:C2'	10:BA:515:U:H5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:584:C:H5”	33:BX:44:ARG:HH22	1.81	0.45
10:BA:651:G:N2	10:BA:652:A:C4	2.84	0.45
10:BA:837:A:C4	24:BO:75:ARG:CZ	2.99	0.45
10:BA:847:A:H2’	10:BA:848:C:O4’	2.16	0.45
10:BA:1063:A:HO2’	10:BA:1064:A:P	2.35	0.45
10:BA:1362:U:H2’	10:BA:1363:U:C6	2.52	0.45
10:BA:1504:U:C2’	10:BA:1505:C:H5’	2.46	0.45
10:BA:1732:U:H2’	10:BA:1734:A:OP2	2.17	0.45
11:BB:144:CYS:O	11:BB:158:PRO:HA	2.16	0.45
12:BC:9:ASN:O	12:BC:10:LYS:C	2.58	0.45
12:BC:10:LYS:H	12:BC:10:LYS:HG2	1.49	0.45
15:BF:48:MET:HE1	15:BF:71:ILE:HG23	1.99	0.45
15:BF:55:LEU:O	15:BF:56:SER:HB2	2.16	0.45
17:BH:87:GLU:O	17:BH:91:ASN:ND2	2.41	0.45
21:BL:29:PHE:CE1	21:BL:33:LEU:HD12	2.52	0.45
22:BM:102:SER:O	22:BM:106:ASP:OD2	2.34	0.45
22:BM:134:ARG:O	22:BM:136:GLN:N	2.50	0.45
24:BO:68:LEU:C	24:BO:68:LEU:CD2	2.90	0.45
24:BO:98:LEU:HA	24:BO:98:LEU:HD12	1.69	0.45
27:BR:74:GLY:O	27:BR:75:HIS:O	2.35	0.45
27:BR:225:GLY:O	27:BR:242:ILE:CD1	2.62	0.45
27:BR:338:PHE:N	27:BR:338:PHE:CD1	2.84	0.45
30:BU:87:THR:HG21	30:BU:95:LYS:HE3	1.96	0.45
32:BW:134:GLY:HA3	32:BW:135:PRO:HD2	1.74	0.45
32:BW:215:ALA:O	32:BW:217:GLY:N	2.49	0.45
33:BX:28:ARG:HD3	33:BX:28:ARG:HA	1.57	0.45
33:BX:35:SER:O	33:BX:38:ARG:HB3	2.16	0.45
34:BY:160:VAL:CG1	34:BY:161:ILE:H	2.00	0.45
1:A1:26:GLN:NE2	1:A1:65:ARG:HA	2.31	0.45
4:A4:174:ILE:O	4:A4:178:ILE:HG13	2.17	0.45
7:A7:89:PRO:O	7:A7:90:LYS:C	2.60	0.45
8:A8:44:PHE:CD1	8:A8:44:PHE:O	2.70	0.45
8:A8:90:ARG:C	8:A8:92:LEU:N	2.75	0.45
10:AA:216:G:N2	10:AA:821:C:H1’	2.31	0.45
10:AA:357:A:H2’	10:AA:358:A:H8	1.81	0.45
10:AA:668:U:H2’	10:AA:669:G:O4’	2.15	0.45
10:AA:733:G:N2	10:AA:783:U:O2	2.50	0.45
10:AA:746:A:N7	10:AA:747:G:N7	2.65	0.45
10:AA:1071:U:OP1	17:AH:71:LYS:NZ	2.44	0.45
10:AA:1155:A:H5’	10:AA:1156:A:OP2	2.17	0.45
10:AA:1191:A:H2’	10:AA:1192:C:H5’	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1486:U:O2'	12:AC:8:ILE:HA	2.15	0.45
13:AD:125:SER:O	13:AD:129:ILE:CD1	2.64	0.45
18:AI:21:VAL:O	18:AI:69:ILE:HA	2.17	0.45
19:AJ:45:THR:HB	19:AJ:48:VAL:HG23	1.98	0.45
22:AM:61:LEU:HB3	22:AM:65:GLN:HG3	1.99	0.45
22:AM:80:GLY:O	22:AM:81:ILE:O	2.35	0.45
23:AN:10:PRO:CB	23:AN:12:ASN:HD22	2.29	0.45
24:AO:5:GLN:HE22	24:AO:126:ARG:HH11	1.63	0.45
26:AQ:75:ILE:HD11	26:AQ:86:ARG:HD3	1.99	0.45
27:AR:101:ARG:HD3	27:AR:110:THR:HG21	1.99	0.45
29:AT:43:THR:O	29:AT:100:HIS:CE1	2.69	0.45
30:AU:16:ILE:HD12	30:AU:82:TYR:CD2	2.47	0.45
30:AU:113:THR:HG22	30:AU:114:GLU:N	2.30	0.45
32:AW:101:PHE:HA	32:AW:114:LYS:O	2.16	0.45
32:AW:143:THR:HG22	32:AW:144:HIS:N	2.31	0.45
34:AY:62:PRO:O	34:AY:98:ARG:HB3	2.16	0.45
35:AZ:89:GLU:C	35:AZ:91:GLY:H	2.24	0.45
35:AZ:96:GLN:O	35:AZ:97:GLU:C	2.59	0.45
2:B2:92:ASN:HB3	2:B2:95:ASN:O	2.17	0.45
3:B3:135:THR:HB	24:BO:23:ARG:HH11	1.81	0.45
3:B3:135:THR:HG23	3:B3:136:LEU:HD23	1.99	0.45
7:B7:55:LEU:HD12	7:B7:68:LEU:HA	1.98	0.45
8:B8:60:VAL:HB	8:B8:64:LEU:CD2	2.38	0.45
8:B8:60:VAL:HG22	8:B8:72:LYS:HG3	1.98	0.45
10:BA:90:U:OP1	32:BW:3:ARG:CD	2.55	0.45
10:BA:283:A:H2'	10:BA:284:U:C6	2.51	0.45
10:BA:332:A:H2'	10:BA:333:C:C6	2.52	0.45
10:BA:537:A:O2'	10:BA:538:A:O5'	2.34	0.45
10:BA:539:U:H2'	10:BA:540:U:O4'	2.17	0.45
10:BA:622:G:H5'	24:BO:122:SER:HG	1.81	0.45
10:BA:760:G:H8	10:BA:760:G:O5'	1.99	0.45
10:BA:880:G:C5	10:BA:881:U:H5	2.35	0.45
10:BA:1174:A:H3'	10:BA:1174:A:C8	2.51	0.45
10:BA:1254:U:H2'	10:BA:1255:U:C6	2.51	0.45
10:BA:1601:G:H2'	10:BA:1602:U:O4'	2.17	0.45
14:BE:45:LEU:N	14:BE:64:PHE:HE2	2.14	0.45
14:BE:85:THR:HA	14:BE:86:PRO:HD3	1.76	0.45
16:BG:19:TYR:C	16:BG:21:GLU:H	2.24	0.45
16:BG:34:ALA:O	16:BG:35:CYS:C	2.60	0.45
16:BG:107:PHE:HA	16:BG:172:ILE:HG23	1.97	0.45
18:BI:138:SER:O	18:BI:139:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BL:78:ASN:O	21:BL:79:SER:HB2	2.16	0.45
21:BL:81:LYS:HD2	21:BL:81:LYS:C	2.41	0.45
24:BO:5:GLN:HE22	24:BO:126:ARG:NH1	2.15	0.45
24:BO:135:GLN:HG3	26:BQ:147:ILE:CD1	2.44	0.45
25:BP:117:GLY:O	25:BP:118:LYS:C	2.58	0.45
28:BS:42:PHE:CD2	28:BS:46:THR:HG21	2.51	0.45
28:BS:95:VAL:CG2	28:BS:117:ILE:HD11	2.45	0.45
30:BU:32:VAL:O	30:BU:36:ILE:HG13	2.17	0.45
32:BW:11:ARG:NH1	32:BW:21:ASN:HB3	2.31	0.45
34:BY:147:LEU:C	34:BY:151:ASP:OD2	2.60	0.45
2:A2:169:SER:O	2:A2:170:GLN:CB	2.63	0.45
3:A3:192:PHE:CE1	6:A6:14:LYS:HA	2.49	0.45
4:A4:26:LEU:O	20:AK:16:TYR:CD2	2.70	0.45
4:A4:120:TRP:CZ3	4:A4:156:SER:HA	2.51	0.45
4:A4:186:GLY:O	4:A4:189:GLU:N	2.50	0.45
9:A9:72:LYS:O	9:A9:73:LYS:O	2.35	0.45
10:AA:98:U:C6	10:AA:98:U:C3'	3.00	0.45
10:AA:133:A:C5'	10:AA:134:C:H5'	2.47	0.45
10:AA:369:A:OP2	10:AA:370:U:OP2	2.35	0.45
10:AA:512:C:C5	10:AA:513:A:C8	3.05	0.45
10:AA:633:U:C2'	10:AA:634:C:OP2	2.65	0.45
10:AA:682:C:H2'	10:AA:683:A:O4'	2.17	0.45
10:AA:800:A:C2	10:AA:833:A:C2	3.05	0.45
10:AA:820:U:H2'	10:AA:821:C:O4'	2.17	0.45
10:AA:841:A:C2'	10:AA:842:U:OP1	2.64	0.45
10:AA:841:A:H2'	10:AA:841:A:N3	2.31	0.45
10:AA:867:U:H2'	10:AA:868:U:O4'	2.16	0.45
10:AA:892:G:O2'	10:AA:893:A:O4'	2.34	0.45
10:AA:919:A:H2'	10:AA:920:G:H5'	1.99	0.45
10:AA:1058:A:H5'	14:AE:165:SER:HB3	1.98	0.45
10:AA:1343:G:C2'	10:AA:1344:U:OP1	2.64	0.45
10:AA:1465:C:C2'	10:AA:1466:C:C5'	2.87	0.45
10:AA:1514:G:N2	10:AA:1540:G:C2'	2.78	0.45
10:AA:1590:C:O2'	10:AA:1591:C:OP2	2.28	0.45
11:AB:98:ARG:NH1	11:AB:101:PRO:CD	2.79	0.45
11:AB:115:PRO:HG2	11:AB:138:ILE:HD12	1.99	0.45
11:AB:191:TRP:CD1	11:AB:193:VAL:HB	2.50	0.45
12:AC:49:THR:HB	12:AC:87:ILE:HG12	1.99	0.45
21:AL:21:ASP:C	21:AL:23:ARG:N	2.74	0.45
23:AN:22:VAL:O	23:AN:23:CYS:C	2.58	0.45
26:AQ:11:LYS:HB3	26:AQ:53:VAL:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AQ:112:PRO:O	26:AQ:113:CYS:C	2.59	0.45
27:AR:190:VAL:HG23	27:AR:219:LEU:HD22	1.97	0.45
29:AT:40:TRP:CE3	29:AT:40:TRP:HA	2.51	0.45
30:AU:108:TYR:CE2	30:AU:120:ILE:HD13	2.51	0.45
32:AW:31:PRO:CB	32:AW:38:LEU:HD23	2.45	0.45
33:AX:44:ARG:HA	33:AX:49:ILE:HD12	1.98	0.45
34:AY:18:ILE:HD13	34:AY:41:LEU:HD21	1.97	0.45
34:AY:69:VAL:O	34:AY:99:GLY:HA3	2.16	0.45
2:B2:22:ARG:HD3	2:B2:25:ARG:NH2	2.32	0.45
2:B2:26:ALA:O	2:B2:29:LYS:HG2	2.16	0.45
2:B2:43:THR:O	2:B2:44:THR:HB	2.16	0.45
3:B3:142:ARG:O	3:B3:149:SER:HA	2.16	0.45
4:B4:144:ALA:C	4:B4:145:PHE:CD1	2.94	0.45
5:B5:38:ARG:NE	10:BA:1751:U:C5	2.85	0.45
6:B6:35:CYS:HB3	6:B6:38:CYS:SG	2.55	0.45
9:B9:116:CYS:SG	9:B9:137:CYS:SG	3.13	0.45
10:BA:24:C:H2'	10:BA:25:A:C8	2.52	0.45
10:BA:388:A:H2'	10:BA:389:G:O4'	2.17	0.45
10:BA:393:C:O2	10:BA:393:C:C2'	2.48	0.45
10:BA:444:A:HO2'	10:BA:445:U:P	2.33	0.45
10:BA:623:U:N3	10:BA:949:A:C6	2.84	0.45
10:BA:904:A:O2'	10:BA:905:C:H5'	2.17	0.45
10:BA:933:A:H2'	10:BA:934:U:O4'	2.16	0.45
10:BA:1266:G:C2	10:BA:1267:G:C8	3.03	0.45
10:BA:1279:U:C5	10:BA:1280:G:N7	2.84	0.45
10:BA:1500:C:H5"	16:BG:86:LYS:CE	2.47	0.45
10:BA:1585:U:P	16:BG:66:ARG:HH12	2.40	0.45
10:BA:1718:A:N3	10:BA:1718:A:O4'	2.49	0.45
11:BB:5:ARG:HH22	11:BB:12:ARG:NH2	2.09	0.45
11:BB:19:HIS:O	11:BB:43:TYR:HA	2.17	0.45
11:BB:119:ILE:HA	11:BB:141:ILE:O	2.16	0.45
12:BC:146:LYS:NZ	12:BC:153:MET:CE	2.80	0.45
16:BG:35:CYS:H	16:BG:63:ILE:CD1	2.26	0.45
16:BG:152:GLY:O	16:BG:153:CYS:C	2.60	0.45
16:BG:153:CYS:HA	16:BG:167:THR:HG22	1.99	0.45
17:BH:74:VAL:CG1	17:BH:126:LEU:O	2.63	0.45
17:BH:112:THR:HG22	17:BH:114:GLU:H	1.82	0.45
20:BK:110:PRO:HG2	20:BK:111:GLY:N	2.32	0.45
25:BP:27:HIS:O	25:BP:29:ASP:N	2.50	0.45
27:BR:96:TRP:HB3	27:BR:120:GLU:CG	2.46	0.45
27:BR:102:LEU:HG	27:BR:114:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:139:GLU:O	27:BR:140:ARG:CB	2.65	0.45
27:BR:184:ALA:O	27:BR:185:PRO:C	2.56	0.45
27:BR:234:ASP:C	27:BR:236:LYS:H	2.23	0.45
28:BS:86:ARG:HD2	28:BS:102:TYR:O	2.17	0.45
35:BZ:13:MET:HE1	35:BZ:31:LYS:CD	2.39	0.45
3:A3:73:LEU:HD12	3:A3:73:LEU:O	2.16	0.45
3:A3:179:THR:HG22	10:AA:636:G:H1'	1.98	0.45
4:A4:122:THR:HG22	4:A4:123:LEU:N	2.32	0.45
5:A5:10:ARG:HD3	5:A5:33:ASP:OD2	2.17	0.45
5:A5:15:ARG:HD2	10:AA:914:G:O6	2.16	0.45
5:A5:53:ILE:HD13	20:AK:116:LEU:CD1	2.46	0.45
9:A9:119:CYS:O	9:A9:123:ILE:HD12	2.17	0.45
9:A9:120:GLY:O	9:A9:122:GLY:N	2.49	0.45
10:AA:193:C:H2'	10:AA:194:G:C8	2.51	0.45
10:AA:751:U:C5	10:AA:752:C:C4	3.05	0.45
10:AA:1004:A:C2	10:AA:1745:G:C5	3.05	0.45
10:AA:1154:U:C3'	10:AA:1155:A:H5"	2.47	0.45
10:AA:1293:A:O2'	10:AA:1294:A:OP2	2.34	0.45
10:AA:1305:C:H1'	12:AC:165:GLN:HG3	1.99	0.45
10:AA:1563:C:C6	10:AA:1563:C:C3'	3.00	0.45
10:AA:1713:G:H1'	10:AA:1734:A:C2	2.52	0.45
10:AA:1717:C:C3'	10:AA:1718:A:H5'	2.46	0.45
11:AB:141:ILE:HG23	11:AB:155:VAL:HG12	1.99	0.45
12:AC:58:PRO:HA	12:AC:61:VAL:HG23	1.99	0.45
13:AD:170:GLY:O	13:AD:174:ARG:HB2	2.16	0.45
14:AE:145:TRP:CD1	14:AE:145:TRP:C	2.94	0.45
14:AE:235:GLU:O	14:AE:236:ASP:C	2.60	0.45
17:AH:55:ASP:C	17:AH:57:ARG:H	2.25	0.45
17:AH:74:VAL:CG1	17:AH:75:ILE:N	2.79	0.45
18:AI:3:GLN:O	18:AI:4:GLN:HG3	2.17	0.45
18:AI:43:PRO:O	18:AI:44:GLN:C	2.60	0.45
18:AI:129:LYS:C	18:AI:130:LYS:HG3	2.42	0.45
19:AJ:97:ASP:O	19:AJ:100:THR:HB	2.17	0.45
23:AN:10:PRO:C	23:AN:12:ASN:H	2.24	0.45
25:AP:21:LEU:N	25:AP:21:LEU:CD2	2.77	0.45
27:AR:13:LYS:HZ3	27:AR:295:GLU:CB	2.29	0.45
31:AV:59:LYS:HA	31:AV:62:GLN:HG2	1.99	0.45
31:AV:112:GLN:NE2	31:AV:113:ASN:ND2	2.64	0.45
32:AW:193:ARG:HG3	32:AW:193:ARG:HH11	1.82	0.45
32:AW:201:GLU:CD	32:AW:201:GLU:N	2.75	0.45
34:AY:71:GLY:CA	34:AY:98:ARG:NH1	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:115:THR:CB	2:B2:116:PRO:HD3	2.42	0.45
2:B2:123:LEU:HD21	10:BA:180:C:C5'	2.47	0.45
4:B4:31:TRP:C	4:B4:32:TYR:CD1	2.94	0.45
4:B4:138:ILE:CD1	4:B4:190:PHE:CE2	3.00	0.45
5:B5:97:ARG:O	5:B5:98:ARG:HB2	2.16	0.45
7:B7:88:ILE:HG21	7:B7:93:LYS:HD2	1.98	0.45
10:BA:86:C:H1'	10:BA:444:A:OP1	2.16	0.45
10:BA:453:G:OP2	13:BD:1:MET:CG	2.62	0.45
10:BA:642:G:H2'	10:BA:643:U:C5'	2.40	0.45
10:BA:643:U:H2'	10:BA:644:U:C6	2.52	0.45
10:BA:673:A:N3	10:BA:675:A:N6	2.65	0.45
10:BA:715:G:C2	10:BA:716:G:N1	2.85	0.45
10:BA:787:A:C8	17:BH:107:THR:HA	2.51	0.45
10:BA:949:A:H3'	10:BA:950:G:H8	1.82	0.45
10:BA:976:A:C2'	10:BA:977:U:H5'	2.46	0.45
10:BA:1217:G:O2'	10:BA:1218:C:OP2	2.34	0.45
10:BA:1244:U:O4	10:BA:1402:C:O2	2.34	0.45
10:BA:1250:G:H2'	10:BA:1251:C:O4'	2.17	0.45
10:BA:1272:A:H5"	14:BE:87:VAL:HG11	1.98	0.45
10:BA:1301:A:C2'	10:BA:1302:G:C5'	2.92	0.45
10:BA:1390:G:H4'	23:BN:55:ARG:HB3	1.99	0.45
10:BA:1567:U:H5'	23:BN:29:LEU:CD1	2.45	0.45
10:BA:1596:C:O2'	10:BA:1597:G:H5'	2.17	0.45
10:BA:1663:A:H2'	10:BA:1664:A:H8	1.82	0.45
11:BB:85:PHE:HE2	11:BB:174:ILE:HB	1.82	0.45
13:BD:136:VAL:O	13:BD:139:ASN:O	2.35	0.45
14:BE:48:ILE:HG23	14:BE:53:ILE:HD12	1.99	0.45
15:BF:75:GLY:O	15:BF:76:ASP:HB2	2.16	0.45
16:BG:67:LEU:HD22	16:BG:107:PHE:CE1	2.52	0.45
16:BG:145:ALA:O	16:BG:149:ILE:HG13	2.17	0.45
17:BH:36:LYS:O	17:BH:40:ILE:HG13	2.17	0.45
17:BH:75:ILE:HG22	17:BH:75:ILE:O	2.17	0.45
19:BJ:18:ARG:O	19:BJ:18:ARG:CG	2.65	0.45
20:BK:45:THR:CG2	20:BK:46:ASP:N	2.79	0.45
21:BL:90:GLY:O	21:BL:91:CYS:C	2.59	0.45
23:BN:31:THR:HG22	23:BN:31:THR:O	2.16	0.45
23:BN:40:ARG:H	23:BN:40:ARG:HG2	1.33	0.45
29:BT:36:GLU:HG3	29:BT:37:PHE:N	2.31	0.45
29:BT:119:LYS:CE	29:BT:130:ARG:NH1	2.80	0.45
30:BU:79:LEU:HD22	30:BU:103:LEU:CD1	2.32	0.45
32:BW:143:THR:HG22	32:BW:144:HIS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BY:9:LEU:H	34:BY:9:LEU:CD2	2.18	0.45
34:BY:23:LYS:NZ	34:BY:43:ASP:OD2	2.42	0.45
8:A8:47:LYS:HD2	8:A8:48:LYS:HG3	1.99	0.45
8:A8:65:THR:CG2	16:AG:166:GLU:OE2	2.65	0.45
10:AA:110:A:O2'	26:AQ:64:SER:CB	2.64	0.45
10:AA:478:G:H3'	10:AA:479:G:O4'	2.16	0.45
10:AA:533:G:H2'	10:AA:534:A:C5'	2.46	0.45
10:AA:572:U:H4'	10:AA:573:A:H5"	1.94	0.45
10:AA:797:A:N6	10:AA:836:G:O6	2.49	0.45
10:AA:892:G:H2'	10:AA:892:G:N3	2.31	0.45
10:AA:911:A:O2'	10:AA:912:A:P	2.74	0.45
10:AA:1082:G:C2	10:AA:1109:U:O2	2.70	0.45
10:AA:1263:G:H2'	10:AA:1264:G:H8	1.82	0.45
10:AA:1430:C:O2'	10:AA:1431:A:P	2.75	0.45
11:AB:85:PHE:HE2	11:AB:174:ILE:HB	1.82	0.45
11:AB:127:PHE:CG	11:AB:128:GLN:N	2.85	0.45
12:AC:36:GLY:O	12:AC:55:ALA:CB	2.64	0.45
17:AH:55:ASP:O	17:AH:57:ARG:N	2.50	0.45
17:AH:56:HIS:CE1	24:AO:22:ARG:HE	2.35	0.45
18:AI:24:VAL:HG13	18:AI:67:ILE:CG1	2.47	0.45
22:AM:129:TRP:CD1	22:AM:129:TRP:H	2.35	0.45
24:AO:48:THR:HB	24:AO:51:GLN:H	1.82	0.45
26:AQ:4:GLN:NE2	26:AQ:10:GLN:OE1	2.50	0.45
26:AQ:53:VAL:O	26:AQ:53:VAL:HG12	2.17	0.45
2:B2:142:GLU:HB2	2:B2:150:ARG:NH2	2.32	0.45
3:B3:134:SER:HB2	3:B3:159:ASP:OD2	2.17	0.45
4:B4:77:ASP:C	4:B4:79:SER:N	2.71	0.45
7:B7:99:PHE:HZ	12:BC:69:HIS:NE2	2.08	0.45
9:B9:150:UNK:HA	9:B9:153:UNK:HG1	1.97	0.45
10:BA:52:G:OP1	25:BP:110:ARG:NH2	2.50	0.45
10:BA:82:A:H2'	10:BA:83:C:C6	2.52	0.45
10:BA:454:C:P	32:BW:26:ILE:HD11	2.57	0.45
10:BA:496:G:C2	10:BA:497:G:C8	3.04	0.45
10:BA:533:G:N2	10:BA:535:A:C6	2.82	0.45
10:BA:734:U:O2	10:BA:735:G:C8	2.70	0.45
10:BA:840:A:H4'	17:BH:57:ARG:HG2	1.98	0.45
10:BA:1513:G:C6	10:BA:1514:G:C2	3.05	0.45
10:BA:1608:C:C2	10:BA:1610:G:C4	3.04	0.45
12:BC:175:VAL:HG13	12:BC:187:VAL:O	2.17	0.45
14:BE:225:TYR:C	14:BE:225:TYR:HD1	2.25	0.45
16:BG:34:ALA:HB1	16:BG:62:PRO:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:BH:59:LYS:CD	17:BH:59:LYS:N	2.64	0.45
17:BH:79:TYR:H	17:BH:79:TYR:HD1	1.62	0.45
23:BN:10:PRO:C	23:BN:12:ASN:H	2.25	0.45
23:BN:52:VAL:HG21	23:BN:54:TYR:CE2	2.52	0.45
25:BP:18:ARG:HA	25:BP:73:VAL:O	2.17	0.45
27:BR:95:SER:OG	27:BR:96:TRP:N	2.50	0.45
32:BW:102:ARG:HB2	32:BW:114:LYS:CB	2.46	0.45
34:BY:55:GLY:HA3	34:BY:63:MET:SD	2.57	0.45
2:A2:74:SER:HB3	2:A2:81:THR:OG1	2.17	0.45
4:A4:33:ASP:O	4:A4:99:ALA:HB3	2.17	0.45
4:A4:202:LYS:HD3	4:A4:202:LYS:HA	1.76	0.45
5:A5:30:VAL:HG12	5:A5:35:ALA:HB2	1.90	0.45
5:A5:53:ILE:HG23	20:AK:116:LEU:HD21	1.98	0.45
6:A6:9:ILE:HD12	6:A6:12:GLU:CG	2.47	0.45
10:AA:14:C:O2	10:AA:14:C:H2'	2.16	0.45
10:AA:435:C:H2'	10:AA:436:C:O4'	2.17	0.45
10:AA:607:G:H4'	10:AA:608:C:O5'	2.16	0.45
10:AA:760:G:C6	25:AP:8:LYS:HG2	2.52	0.45
10:AA:820:U:O2'	10:AA:821:C:H5'	2.16	0.45
10:AA:1514:G:N2	10:AA:1540:G:O2'	2.50	0.45
10:AA:1596:C:O2'	10:AA:1597:G:H5'	2.17	0.45
11:AB:109:THR:HG22	11:AB:110:LEU:N	2.32	0.45
16:AG:102:ASN:O	16:AG:105:GLU:N	2.46	0.45
18:AI:58:GLY:C	18:AI:60:GLN:H	2.25	0.45
20:AK:54:VAL:HG22	20:AK:84:ARG:HG3	1.98	0.45
20:AK:75:MET:HG2	20:AK:121:ARG:HH22	1.81	0.45
21:AL:27:ASN:O	21:AL:31:LYS:HB2	2.16	0.45
27:AR:20:HIS:CE1	27:AR:46:SER:HB3	2.51	0.45
27:AR:61:GLN:O	27:AR:61:GLN:HG3	2.16	0.45
27:AR:82:LEU:HD21	27:AR:93:SER:HB3	1.98	0.45
31:AV:76:GLU:O	31:AV:79:GLU:HB3	2.17	0.45
31:AV:103:LYS:CD	31:AV:118:VAL:HG21	2.47	0.45
32:AW:99:GLN:HB3	32:AW:101:PHE:CE1	2.42	0.45
1:B1:61:GLU:O	1:B1:62:ARG:HG2	2.18	0.45
4:B4:207:THR:C	4:B4:209:ASN:H	2.26	0.45
7:B7:6:LYS:HD3	30:BU:23:ASP:HA	1.99	0.45
10:BA:4:C:O2'	13:BD:17:ARG:NH2	2.50	0.45
10:BA:9:U:O2	10:BA:11:A:H5"	2.17	0.45
10:BA:23:A:O2'	10:BA:24:C:H5'	2.17	0.45
10:BA:101:A:H2'	10:BA:102:A:H8	1.81	0.45
10:BA:410:G:O2'	10:BA:411:U:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:546:G:N2	10:BA:566:C:N3	2.64	0.45
10:BA:561:A:H2'	10:BA:562:G:O4'	2.16	0.45
10:BA:572:U:H4'	10:BA:573:A:H5"	1.93	0.45
10:BA:1039:C:O2'	10:BA:1040:C:H5'	2.16	0.45
10:BA:1203:U:O4	10:BA:1227:G:N2	2.51	0.45
10:BA:1298:A:C6	10:BA:1299:C:N4	2.85	0.45
10:BA:1598:U:H2'	10:BA:1599:U:H6	1.82	0.45
11:BB:13:LEU:CD2	11:BB:173:MET:HE1	2.47	0.45
11:BB:32:TYR:N	11:BB:32:TYR:CD1	2.84	0.45
11:BB:127:PHE:CG	11:BB:128:GLN:N	2.85	0.45
12:BC:205:VAL:C	12:BC:206:LYS:HG3	2.41	0.45
12:BC:215:ILE:CD1	31:BV:15:SER:HB2	2.46	0.45
14:BE:138:VAL:HG11	14:BE:220:ALA:HB1	1.99	0.45
14:BE:142:LYS:CB	14:BE:152:ALA:HB1	2.47	0.45
15:BF:17:THR:CG2	15:BF:39:PRO:HD3	2.41	0.45
15:BF:48:MET:CE	15:BF:71:ILE:HG23	2.46	0.45
17:BH:97:ARG:O	17:BH:98:GLN:HG2	2.16	0.45
20:BK:36:THR:HG22	20:BK:38:ASN:H	1.82	0.45
22:BM:92:PHE:O	28:BS:15:GLY:HA2	2.17	0.45
22:BM:119:ILE:O	22:BM:120:LYS:HB2	2.16	0.45
24:BO:90:LEU:HD21	24:BO:141:TRP:HE1	1.82	0.45
26:BQ:23:LEU:C	26:BQ:25:LYS:N	2.73	0.45
32:BW:151:PHE:HD2	34:BY:212:TYR:CG	2.35	0.45
32:BW:211:HIS:C	32:BW:212:VAL:HG22	2.42	0.45
33:BX:31:PRO:O	33:BX:36:TYR:HB2	2.16	0.45
2:A2:22:ARG:HD3	2:A2:25:ARG:NH2	2.32	0.44
2:A2:43:THR:O	2:A2:44:THR:HB	2.17	0.44
2:A2:78:GLU:HB2	2:A2:80:ILE:HG13	1.98	0.44
2:A2:194:LYS:HG2	26:AQ:4:GLN:HE21	1.79	0.44
3:A3:62:LEU:HD12	3:A3:63:ILE:N	2.32	0.44
3:A3:142:ARG:O	3:A3:149:SER:HA	2.17	0.44
4:A4:194:LEU:HD12	4:A4:194:LEU:HA	1.78	0.44
10:AA:29:G:H4'	21:AL:130:SER:HB2	1.99	0.44
10:AA:197:A:C2'	10:AA:198:C:H5'	2.46	0.44
10:AA:283:A:H2'	10:AA:284:U:C6	2.53	0.44
10:AA:317:G:P	26:AQ:56:LYS:HZ3	2.39	0.44
10:AA:624:A:C6	10:AA:948:A:N7	2.86	0.44
10:AA:639:C:H2'	10:AA:640:A:C8	2.53	0.44
10:AA:751:U:O5'	10:AA:751:U:H6	1.99	0.44
10:AA:867:U:C6	10:AA:867:U:H5'	2.51	0.44
10:AA:904:A:O2'	10:AA:905:C:H5'	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:942:U:O2'	10:AA:943:U:P	2.75	0.44
10:AA:1088:A:C2'	10:AA:1089:U:OP1	2.65	0.44
10:AA:1139:G:H2'	10:AA:1140:U:C6	2.52	0.44
10:AA:1472:U:OP2	29:AT:105:ARG:NH1	2.50	0.44
10:AA:1652:A:N3	34:AY:66:GLY:HA2	2.31	0.44
10:AA:1716:A:N6	10:AA:1717:C:N4	2.65	0.44
11:AB:51:GLN:NE2	35:AZ:95:ILE:HB	2.29	0.44
11:AB:54:LYS:HB2	35:AZ:95:ILE:HD12	1.98	0.44
13:AD:109:LEU:HD22	13:AD:141:VAL:HG12	1.99	0.44
14:AE:145:TRP:HZ3	14:AE:174:PRO:CB	2.30	0.44
16:AG:34:ALA:H	16:AG:63:ILE:HG12	1.82	0.44
16:AG:96:HIS:O	16:AG:100:GLY:CA	2.65	0.44
17:AH:15:VAL:C	17:AH:17:ALA:N	2.72	0.44
17:AH:55:ASP:OD1	17:AH:57:ARG:HB2	2.17	0.44
18:AI:99:VAL:CG1	18:AI:100:ASP:H	2.21	0.44
22:AM:125:LEU:HD23	22:AM:129:TRP:NE1	2.29	0.44
25:AP:146:PHE:O	25:AP:147:VAL:HG23	2.17	0.44
26:AQ:18:ASN:HB3	26:AQ:19:SER:H	1.46	0.44
26:AQ:76:SER:HB2	26:AQ:78:LYS:HE2	1.98	0.44
27:AR:7:LEU:HA	27:AR:341:SER:CA	2.44	0.44
27:AR:47:ARG:HD3	27:AR:78:PHE:CE2	2.51	0.44
27:AR:100:LEU:HD12	27:AR:100:LEU:N	2.32	0.44
27:AR:181:GLN:HG3	27:AR:183:PHE:CE2	2.52	0.44
28:AS:74:ALA:C	28:AS:76:GLU:N	2.75	0.44
29:AT:15:ALA:HB2	29:AT:66:ARG:CZ	2.47	0.44
29:AT:45:VAL:CG1	29:AT:97:GLN:HG2	2.48	0.44
31:AV:17:ILE:CD1	31:AV:58:MET:HE3	2.44	0.44
34:AY:180:GLN:O	34:AY:181:ARG:CB	2.56	0.44
6:B6:47:ASN:ND2	6:B6:67:GLY:O	2.50	0.44
7:B7:52:ARG:HD2	7:B7:54:PHE:HE1	1.83	0.44
8:B8:73:LEU:O	8:B8:74:LYS:HB2	2.17	0.44
9:B9:152:UNK:CA	9:B9:155:UNK:HG3	2.47	0.44
10:BA:92:G:H21	10:BA:418:G:H5'	1.82	0.44
10:BA:295:U:H1'	26:BQ:68:LYS:CE	2.47	0.44
10:BA:357:A:H2'	10:BA:358:A:H8	1.82	0.44
10:BA:625:G:O2'	10:BA:626:U:H5'	2.16	0.44
10:BA:759:G:O6	25:BP:9:LYS:HE2	2.17	0.44
10:BA:1038:U:H2'	10:BA:1039:C:C6	2.52	0.44
10:BA:1106:A:H2'	10:BA:1107:C:O4'	2.17	0.44
10:BA:1125:A:C6	10:BA:1126:C:C4	3.05	0.44
10:BA:1259:A:O2'	10:BA:1260:G:H8	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1374:C:O2	10:BA:1374:C:C2'	2.63	0.44
10:BA:1394:U:OP1	12:BC:154:LYS:NZ	2.50	0.44
10:BA:1413:C:C4'	10:BA:1418:C:H41	2.31	0.44
10:BA:1584:U:H2'	10:BA:1585:U:H5'	1.99	0.44
10:BA:1608:C:C4	10:BA:1610:G:C2	3.04	0.44
10:BA:1617:G:H22	10:BA:1708:A:H2	1.64	0.44
11:BB:5:ARG:CB	11:BB:187:LYS:HZ1	2.30	0.44
15:BF:71:ILE:HG22	15:BF:73:LEU:CD2	2.46	0.44
16:BG:13:LEU:HB2	16:BG:19:TYR:HE1	1.81	0.44
16:BG:45:PRO:HB2	16:BG:68:ILE:HD12	1.99	0.44
16:BG:57:ARG:O	16:BG:58:LYS:C	2.59	0.44
17:BH:10:CYS:SG	17:BH:27:LEU:HB3	2.57	0.44
17:BH:114:GLU:O	17:BH:117:ARG:HG3	2.17	0.44
18:BI:121:ALA:O	18:BI:123:PRO:CD	2.65	0.44
26:BQ:76:SER:HB2	26:BQ:78:LYS:HE2	1.97	0.44
27:BR:128:PRO:CB	27:BR:173:ILE:HD12	2.47	0.44
27:BR:218:HIS:CG	27:BR:219:LEU:H	2.35	0.44
29:BT:21:GLU:HG3	29:BT:147:ILE:HD11	1.98	0.44
34:BY:31:LYS:C	34:BY:34:GLN:HG2	2.39	0.44
34:BY:97:VAL:HG12	34:BY:98:ARG:N	2.32	0.44
3:A3:138:GLY:C	3:A3:154:GLN:HG2	2.42	0.44
4:A4:138:ILE:CD1	4:A4:190:PHE:CE2	3.00	0.44
4:A4:176:THR:O	4:A4:180:ASN:ND2	2.51	0.44
6:A6:19:PHE:CE1	24:AO:17:ALA:HB2	2.52	0.44
7:A7:23:VAL:CG1	12:AC:78:LYS:HB3	2.47	0.44
7:A7:52:ARG:HD2	7:A7:54:PHE:HE1	1.82	0.44
7:A7:88:ILE:O	7:A7:89:PRO:C	2.60	0.44
10:AA:90:U:OP1	32:AW:3:ARG:CD	2.59	0.44
10:AA:99:A:O2'	10:AA:299:C:N4	2.50	0.44
10:AA:160:C:O2'	34:AY:133:LEU:HB2	2.17	0.44
10:AA:224:G:O2'	10:AA:225:C:H5"	2.17	0.44
10:AA:359:U:H2'	10:AA:360:U:C5'	2.47	0.44
10:AA:457:G:C5	10:AA:458:U:C5	3.05	0.44
10:AA:600:A:O2'	10:AA:603:U:OP1	2.31	0.44
10:AA:716:G:H2'	10:AA:717:G:C8	2.36	0.44
10:AA:847:A:H4'	24:AO:92:PHE:CZ	2.52	0.44
10:AA:957:A:H2'	10:AA:958:G:O4'	2.17	0.44
10:AA:1157:U:H4'	10:AA:1158:U:OP2	2.17	0.44
10:AA:1165:A:HO2'	10:AA:1166:A:P	2.40	0.44
10:AA:1166:A:H2'	10:AA:1167:C:C5'	2.47	0.44
10:AA:1583:A:H2	10:AA:1584:U:O4	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1617:G:N2	10:AA:1710:G:C4	2.86	0.44
12:AC:45:THR:HB	12:AC:48:LYS:H	1.82	0.44
13:AD:16:ARG:O	13:AD:18:PRO:HD3	2.17	0.44
13:AD:83:TYR:CD2	13:AD:147:MET:HG3	2.51	0.44
20:AK:62:VAL:CG1	20:AK:63:LYS:N	2.71	0.44
22:AM:107:THR:O	22:AM:111:GLU:HG3	2.17	0.44
26:AQ:21:LYS:NZ	26:AQ:31:VAL:CG2	2.81	0.44
27:AR:97:ASP:C	27:AR:98:LYS:HG3	2.43	0.44
27:AR:139:GLU:O	27:AR:140:ARG:CB	2.65	0.44
27:AR:218:HIS:CG	27:AR:219:LEU:N	2.85	0.44
34:AY:87:ARG:O	34:AY:88:ARG:CB	2.63	0.44
34:AY:121:ILE:HB	34:AY:124:LEU:HD12	1.98	0.44
34:AY:126:THR:HG22	34:AY:126:THR:O	2.17	0.44
34:AY:185:PRO:HA	34:AY:188:ILE:HD12	1.98	0.44
1:B1:26:GLN:HE22	1:B1:65:ARG:HA	1.82	0.44
2:B2:65:ALA:HB3	2:B2:180:PRO:CB	2.47	0.44
2:B2:80:ILE:HD11	2:B2:120:TRP:CZ3	2.53	0.44
3:B3:127:LEU:HD23	3:B3:127:LEU:HA	1.87	0.44
4:B4:119:LYS:HD2	10:BA:911:A:OP1	2.18	0.44
6:B6:17:ASN:O	6:B6:20:LYS:N	2.33	0.44
8:B8:90:ARG:C	8:B8:92:LEU:N	2.76	0.44
8:B8:95:LYS:HE3	8:B8:105:TYR:OH	2.17	0.44
9:B9:126:ALA:HB1	10:BA:1223:U:O2'	2.17	0.44
9:B9:150:UNK:O	9:B9:154:UNK:HG3	2.16	0.44
10:BA:1:A:N6	10:BA:3:C:N3	2.65	0.44
10:BA:29:G:N2	10:BA:591:G:C4	2.85	0.44
10:BA:128:A:C2'	10:BA:129:G:H5'	2.46	0.44
10:BA:269:G:N2	10:BA:275:C:C2	2.85	0.44
10:BA:453:G:O3'	32:BW:26:ILE:HD11	2.17	0.44
10:BA:772:A:H2'	10:BA:773:U:H5'	1.98	0.44
10:BA:892:G:H2'	10:BA:892:G:N3	2.32	0.44
10:BA:926:G:C6	10:BA:927:C:C4	3.05	0.44
10:BA:986:G:N1	10:BA:987:U:C4	2.85	0.44
10:BA:1069:U:O4	14:BE:202:GLN:CD	2.61	0.44
10:BA:1158:U:O4	10:BA:1159:U:C4	2.71	0.44
10:BA:1370:U:O4	10:BA:1371:A:C2	2.71	0.44
10:BA:1443:A:H4'	10:BA:1444:U:O5'	2.07	0.44
10:BA:1492:U:O2'	10:BA:1493:A:O5'	2.32	0.44
10:BA:1532:U:H2'	10:BA:1533:G:H8	1.81	0.44
10:BA:1590:C:O2'	10:BA:1591:C:P	2.75	0.44
10:BA:1626:A:C2	10:BA:1627:A:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BC:130:ILE:HD11	12:BC:157:GLN:HB3	1.99	0.44
12:BC:140:ILE:HB	12:BC:188:LYS:HB2	1.99	0.44
13:BD:23:ARG:O	13:BD:27:GLU:HG3	2.17	0.44
14:BE:228:PRO:CA	14:BE:231:TRP:HD1	2.29	0.44
15:BF:71:ILE:CG2	15:BF:73:LEU:HD22	2.47	0.44
17:BH:14:LEU:HD12	17:BH:25:VAL:HG21	1.98	0.44
20:BK:98:ARG:HH21	20:BK:100:LYS:HA	1.78	0.44
21:BL:135:PHE:CE1	33:BX:15:ARG:NH1	2.85	0.44
22:BM:1:MET:N	22:BM:3:PHE:HE2	2.15	0.44
22:BM:29:PRO:O	22:BM:32:LEU:HB2	2.17	0.44
22:BM:50:LEU:HB2	22:BM:52:ILE:HG13	1.98	0.44
22:BM:115:ARG:O	22:BM:119:ILE:HG13	2.17	0.44
23:BN:4:LYS:O	23:BN:5:LEU:HD12	2.18	0.44
23:BN:6:TRP:CZ3	23:BN:7:ARG:HG2	2.53	0.44
25:BP:28:PRO:O	25:BP:29:ASP:CG	2.60	0.44
27:BR:134:LEU:HD11	27:BR:203:PHE:CZ	2.52	0.44
28:BS:46:THR:HG23	28:BS:89:ILE:HD12	1.97	0.44
29:BT:124:ALA:CA	29:BT:127:LYS:HE2	2.46	0.44
32:BW:120:GLU:C	32:BW:122:LYS:H	2.25	0.44
34:BY:152:ASP:CB	34:BY:153:PRO:HD2	2.39	0.44
35:BZ:28:LEU:HA	35:BZ:29:PRO:HD2	1.85	0.44
2:A2:57:ARG:O	2:A2:58:GLY:C	2.61	0.44
2:A2:80:ILE:HD13	2:A2:120:TRP:CE3	2.51	0.44
2:A2:84:THR:HB	2:A2:112:ILE:CG2	2.48	0.44
2:A2:136:THR:CG2	2:A2:137:VAL:N	2.80	0.44
3:A3:52:LYS:CB	3:A3:56:LYS:HE2	2.44	0.44
3:A3:154:GLN:C	3:A3:155:LEU:HD23	2.41	0.44
4:A4:197:GLU:O	4:A4:201:LYS:HG3	2.17	0.44
10:AA:5:U:OP1	14:AE:184:ILE:HD12	2.18	0.44
10:AA:238:G:H2'	10:AA:239:A:H5'	1.99	0.44
10:AA:463:A:O2'	10:AA:464:G:H5'	2.17	0.44
10:AA:533:G:N2	10:AA:535:A:C6	2.81	0.44
10:AA:542:G:H5"	38:AA:2254:HOH:O	2.17	0.44
10:AA:742:U:O2'	10:AA:743:U:H5'	2.17	0.44
10:AA:1026:C:O5'	10:AA:1026:C:H6	2.01	0.44
10:AA:1259:A:H4'	10:AA:1260:G:O5'	2.16	0.44
10:AA:1511:A:O3'	22:AM:40:ARG:NH2	2.50	0.44
11:AB:38:VAL:C	11:AB:40:GLY:N	2.75	0.44
11:AB:70:MET:O	11:AB:118:LEU:HD12	2.18	0.44
17:AH:74:VAL:CG1	17:AH:75:ILE:H	2.21	0.44
20:AK:36:THR:HG22	20:AK:38:ASN:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AL:75:LEU:HD11	21:AL:82:ILE:HD11	1.99	0.44
27:AR:275:ASP:HA	27:AR:311:GLN:CB	2.46	0.44
34:AY:147:LEU:C	34:AY:151:ASP:OD2	2.61	0.44
2:B2:31:ARG:HB3	2:B2:32:PRO:HD2	1.99	0.44
2:B2:136:THR:CG2	2:B2:137:VAL:N	2.79	0.44
2:B2:159:LEU:O	2:B2:160:GLU:C	2.60	0.44
4:B4:60:SER:HA	4:B4:63:ILE:HD11	1.99	0.44
4:B4:63:ILE:CG2	4:B4:66:ARG:HG3	2.32	0.44
7:B7:16:LEU:CD2	7:B7:16:LEU:C	2.90	0.44
7:B7:56:GLU:HB3	7:B7:67:TYR:CZ	2.52	0.44
8:B8:34:LYS:HD2	8:B8:36:LYS:H	1.82	0.44
8:B8:72:LYS:HB2	8:B8:73:LEU:CD2	2.47	0.44
10:BA:98:U:H3'	10:BA:98:U:C6	2.52	0.44
10:BA:133:A:N6	10:BA:169:G:C2'	2.80	0.44
10:BA:177:U:H2'	10:BA:178:U:H6	1.81	0.44
10:BA:835:U:H2'	10:BA:836:G:H5'	1.98	0.44
10:BA:1511:A:O2'	10:BA:1512:G:P	2.75	0.44
10:BA:1570:U:C3'	10:BA:1571:C:H5"	2.47	0.44
10:BA:1601:G:H2'	10:BA:1602:U:H6	1.81	0.44
11:BB:99:TRP:CZ3	11:BB:132:GLU:OE2	2.71	0.44
11:BB:131:LYS:O	11:BB:134:SER:OG	2.27	0.44
12:BC:226:GLU:O	27:BR:207:TYR:CD2	2.70	0.44
13:BD:28:MET:HB3	33:BX:45:TYR:CD2	2.52	0.44
13:BD:37:LYS:CE	13:BD:126:ARG:NH1	2.80	0.44
15:BF:58:ASN:CB	15:BF:74:ASN:HD21	2.30	0.44
19:BJ:45:THR:HB	19:BJ:48:VAL:HG23	1.98	0.44
22:BM:11:PHE:HD1	22:BM:60:LEU:HD23	1.83	0.44
23:BN:20:CYS:SG	23:BN:37:THR:HA	2.58	0.44
26:BQ:112:PRO:O	26:BQ:113:CYS:C	2.59	0.44
27:BR:14:ARG:HE	27:BR:337:SER:CB	2.29	0.44
27:BR:24:VAL:HG23	27:BR:331:GLY:HA2	1.98	0.44
27:BR:101:ARG:HD3	27:BR:110:THR:HG21	2.00	0.44
30:BU:70:TYR:HD2	30:BU:126:ALA:C	2.24	0.44
32:BW:10:LYS:O	32:BW:13:ASN:N	2.50	0.44
32:BW:49:LYS:HE3	32:BW:61:VAL:HG21	1.99	0.44
32:BW:193:ARG:HH11	32:BW:193:ARG:HG3	1.82	0.44
33:BX:62:TRP:C	33:BX:64:ALA:H	2.25	0.44
35:BZ:48:GLN:HE21	35:BZ:68:VAL:HG22	1.81	0.44
1:A1:61:GLU:OE2	20:AK:121:ARG:HD2	2.17	0.44
3:A3:26:LEU:HD23	3:A3:87:LYS:NZ	2.33	0.44
4:A4:93:GLU:O	4:A4:100:LYS:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:28:ARG:HG3	20:AK:147:ARG:HA	1.99	0.44
8:A8:34:LYS:HZ2	8:A8:36:LYS:HB3	1.80	0.44
9:A9:155:UNK:HA	9:A9:158:UNK:HG3	1.98	0.44
10:AA:65:C:H5'	34:AY:177:PRO:HA	1.99	0.44
10:AA:150:A:H1'	10:AA:407:A:C5	2.52	0.44
10:AA:157:G:O5'	10:AA:157:G:C8	2.70	0.44
10:AA:285:C:H2'	10:AA:286:A:O4'	2.18	0.44
10:AA:424:A:N3	10:AA:425:A:C8	2.86	0.44
10:AA:427:A:OP1	21:AL:48:ALA:HA	2.18	0.44
10:AA:1016:U:H3	10:AA:1064:A:H61	1.66	0.44
10:AA:1299:C:O2'	12:AC:162:CYS:SG	2.65	0.44
10:AA:1492:U:O2'	10:AA:1493:A:OP2	2.35	0.44
10:AA:1513:G:C6	10:AA:1514:G:C2	3.05	0.44
10:AA:1583:A:C2	10:AA:1584:U:O4	2.70	0.44
11:AB:144:CYS:O	11:AB:158:PRO:HA	2.16	0.44
13:AD:28:MET:HB3	33:AX:45:TYR:HD2	1.82	0.44
14:AE:102:PHE:CD2	14:AE:116:TRP:HB3	2.52	0.44
16:AG:154:ARG:HA	16:AG:157:ALA:HB3	2.00	0.44
16:AG:171:GLU:OE2	16:AG:183:SER:HB2	2.17	0.44
17:AH:56:HIS:CE1	24:AO:22:ARG:NE	2.86	0.44
17:AH:68:ARG:O	17:AH:68:ARG:CD	2.66	0.44
20:AK:27:VAL:HG11	20:AK:90:ILE:HG12	1.98	0.44
20:AK:148:GLY:O	20:AK:149:ARG:C	2.60	0.44
21:AL:139:LYS:O	21:AL:140:GLU:HG3	2.18	0.44
22:AM:18:LEU:CD2	22:AM:70:THR:HG23	2.47	0.44
22:AM:72:LEU:HA	22:AM:79:HIS:HE2	1.81	0.44
24:AO:69:THR:HB	24:AO:71:GLN:HB2	1.99	0.44
24:AO:108:ARG:HG2	24:AO:108:ARG:O	2.17	0.44
27:AR:96:TRP:HA	27:AR:120:GLU:CB	2.46	0.44
31:AV:83:ASP:C	31:AV:84:TYR:CD1	2.96	0.44
3:B3:160:ARG:O	3:B3:164:GLU:HB2	2.17	0.44
4:B4:33:ASP:O	4:B4:99:ALA:HB3	2.16	0.44
7:B7:54:PHE:HB3	7:B7:72:GLY:HA2	1.98	0.44
9:B9:72:LYS:O	9:B9:73:LYS:O	2.35	0.44
10:BA:46:A:C2	10:BA:417:A:N6	2.85	0.44
10:BA:150:A:H1'	10:BA:407:A:C5	2.52	0.44
10:BA:332:A:H2'	10:BA:333:C:H6	1.83	0.44
10:BA:444:A:C3'	10:BA:445:U:C6	2.98	0.44
10:BA:506:U:H4'	13:BD:131:GLN:HB3	1.99	0.44
10:BA:522:C:O2'	10:BA:523:U:H5'	2.17	0.44
10:BA:589:G:C6	10:BA:590:C:N4	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:624:A:C6	10:BA:948:A:N7	2.86	0.44
10:BA:667:C:O3'	17:BH:119:ARG:CZ	2.65	0.44
10:BA:668:U:H2'	10:BA:669:G:O4'	2.16	0.44
10:BA:684:A:H2'	10:BA:685:A:N9	2.31	0.44
10:BA:706:U:O2'	10:BA:707:U:H5'	2.18	0.44
10:BA:732:U:C4	10:BA:784:G:C6	3.05	0.44
10:BA:760:G:N2	10:BA:766:G:C2	2.85	0.44
10:BA:800:A:C2	10:BA:833:A:C2	3.06	0.44
10:BA:873:G:N1	10:BA:895:U:N3	2.65	0.44
10:BA:1162:C:C2'	10:BA:1163:U:OP2	2.66	0.44
10:BA:1299:C:O2'	12:BC:162:CYS:CB	2.65	0.44
10:BA:1305:C:C1'	12:BC:165:GLN:HG3	2.46	0.44
10:BA:1425:G:H4'	28:BS:127:THR:CG2	2.47	0.44
10:BA:1446:A:H2'	10:BA:1447:C:C6	2.52	0.44
10:BA:1496:A:H2	10:BA:1562:G:N3	2.15	0.44
13:BD:150:THR:HG22	13:BD:151:ASP:N	2.32	0.44
14:BE:205:THR:O	14:BE:206:ARG:C	2.57	0.44
14:BE:229:ASP:OD2	35:BZ:16:LEU:HD13	2.17	0.44
14:BE:231:TRP:HZ2	17:BH:45:GLY:O	2.00	0.44
16:BG:44:VAL:CG1	16:BG:45:PRO:HD2	2.46	0.44
20:BK:75:MET:HG2	20:BK:121:ARG:HH22	1.82	0.44
22:BM:44:TYR:CE2	29:BT:49:LEU:HD21	2.53	0.44
23:BN:22:VAL:C	23:BN:24:GLY:N	2.74	0.44
27:BR:211:ALA:HB1	27:BR:212:HIS:CD2	2.52	0.44
28:BS:58:TYR:HB3	28:BS:88:MET:HE2	1.99	0.44
28:BS:121:LEU:HD12	28:BS:121:LEU:O	2.17	0.44
29:BT:56:TRP:HE1	29:BT:103:ILE:CD1	2.30	0.44
31:BV:48:ASN:O	31:BV:49:LYS:C	2.61	0.44
34:BY:127:VAL:CG1	34:BY:129:LEU:HG	2.47	0.44
2:A2:73:PHE:N	2:A2:73:PHE:CD1	2.86	0.44
4:A4:37:PRO:O	4:A4:38:ILE:C	2.59	0.44
4:A4:134:ASP:OD1	4:A4:186:GLY:HA2	2.17	0.44
9:A9:131:ARG:HD2	9:A9:140:THR:HG22	1.99	0.44
9:A9:148:UNK:O	9:A9:151:UNK:HG3	2.17	0.44
10:AA:46:A:C2	10:AA:417:A:N6	2.84	0.44
10:AA:187:U:O2'	10:AA:188:G:C8	2.71	0.44
10:AA:267:A:H2'	10:AA:268:G:C8	2.53	0.44
10:AA:646:A:H2'	10:AA:647:U:O4'	2.17	0.44
10:AA:737:A:H8	10:AA:737:A:O5'	2.01	0.44
10:AA:771:A:O3'	32:AW:19:MET:HE1	2.17	0.44
10:AA:883:A:H3'	10:AA:883:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1263:G:H21	10:AA:1296:G:N2	2.07	0.44
10:AA:1601:G:H2'	10:AA:1602:U:O4'	2.18	0.44
10:AA:1608:C:C4	10:AA:1610:G:C2	3.05	0.44
10:AA:1609:C:H3'	10:AA:1610:G:H5'	1.99	0.44
11:AB:38:VAL:C	11:AB:40:GLY:H	2.26	0.44
11:AB:74:SER:HG	11:AB:125:SER:HB3	1.83	0.44
13:AD:15:PRO:HG3	13:AD:23:ARG:NH1	2.31	0.44
13:AD:121:SER:HB3	13:AD:124:HIS:H	1.82	0.44
14:AE:32:LYS:HB2	14:AE:241:PHE:HE2	1.83	0.44
14:AE:239:LEU:C	14:AE:241:PHE:H	2.26	0.44
18:AI:61:LYS:N	18:AI:61:LYS:HD3	2.33	0.44
20:AK:43:HIS:HE1	20:AK:52:THR:CG2	2.30	0.44
21:AL:78:ASN:ND2	21:AL:80:LYS:HG2	2.32	0.44
22:AM:63:GLU:HA	22:AM:66:CYS:HB2	2.00	0.44
22:AM:81:ILE:N	29:AT:40:TRP:CZ2	2.86	0.44
25:AP:109:LYS:O	25:AP:113:LYS:HB2	2.18	0.44
26:AQ:17:LEU:HD13	26:AQ:21:LYS:HE2	1.97	0.44
27:AR:7:LEU:CD2	27:AR:341:SER:HA	2.48	0.44
29:AT:49:LEU:HD12	29:AT:50:ALA:H	1.83	0.44
32:AW:129:THR:HG22	32:AW:130:ALA:N	2.32	0.44
34:AY:5:ILE:CD1	34:AY:111:LEU:HD12	2.45	0.44
34:AY:88:ARG:O	34:AY:89:SER:C	2.61	0.44
3:B3:48:PHE:HE2	3:B3:62:LEU:HD23	1.82	0.44
7:B7:52:ARG:CB	7:B7:54:PHE:CE1	3.01	0.44
10:BA:72:G:O6	10:BA:76:A:O4'	2.35	0.44
10:BA:86:C:O2	10:BA:443:A:H4'	2.18	0.44
10:BA:231:U:H3'	10:BA:232:G:H5"	2.00	0.44
10:BA:444:A:O5'	10:BA:445:U:H5	2.00	0.44
10:BA:533:G:C8	10:BA:533:G:H3'	2.53	0.44
10:BA:610:G:C2	10:BA:1078:U:O2	2.71	0.44
10:BA:642:G:C2'	10:BA:643:U:C5'	2.94	0.44
10:BA:733:G:N2	10:BA:783:U:O2	2.50	0.44
10:BA:770:G:OP1	32:BW:257:LYS:NZ	2.50	0.44
10:BA:1033:A:H2'	10:BA:1034:A:O4'	2.18	0.44
10:BA:1289:C:O2'	10:BA:1371:A:H1'	2.17	0.44
10:BA:1413:C:H4'	10:BA:1418:C:H41	1.82	0.44
12:BC:159:TYR:N	12:BC:159:TYR:CD1	2.86	0.44
14:BE:27:TRP:HD1	14:BE:38:LYS:HD3	1.81	0.44
17:BH:15:VAL:HG22	17:BH:72:CYS:SG	2.58	0.44
18:BI:41:ILE:HD11	18:BI:50:ILE:HD12	1.96	0.44
18:BI:58:GLY:O	18:BI:60:GLN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BN:7:ARG:HA	23:BN:7:ARG:HD3	1.84	0.44
26:BQ:17:LEU:HD23	26:BQ:20:LYS:HZ1	1.82	0.44
26:BQ:70:ILE:CG2	26:BQ:71:LYS:N	2.80	0.44
27:BR:61:GLN:HG3	27:BR:61:GLN:O	2.18	0.44
3:A3:127:LEU:HD13	3:A3:153:ILE:CD1	2.48	0.44
5:A5:81:ILE:O	5:A5:83:SER:N	2.50	0.44
8:A8:31:THR:HA	15:BF:42:PHE:HB3	2.00	0.44
9:A9:116:CYS:SG	9:A9:137:CYS:SG	3.16	0.44
10:AA:237:U:C4	10:AA:238:G:H1'	2.53	0.44
10:AA:435:C:H4'	10:AA:518:A:C2	2.52	0.44
10:AA:457:G:C2'	10:AA:458:U:H5'	2.48	0.44
10:AA:465:A:H2'	10:AA:466:A:O4'	2.17	0.44
10:AA:468:U:H5'	10:AA:469:A:C5'	2.48	0.44
10:AA:787:A:C6	10:AA:788:U:C4	3.06	0.44
10:AA:892:G:OP1	10:AA:892:G:O4'	2.36	0.44
10:AA:932:G:H5'	24:AO:7:LYS:NZ	2.32	0.44
10:AA:1166:A:C2'	10:AA:1167:C:H5'	2.48	0.44
10:AA:1168:A:N6	10:AA:1573:G:H2'	2.32	0.44
10:AA:1263:G:N2	10:AA:1296:G:C2	2.85	0.44
10:AA:1338:A:C6	10:AA:1339:G:N7	2.86	0.44
10:AA:1430:C:O2'	10:AA:1431:A:O5'	2.36	0.44
10:AA:1466:C:H6	10:AA:1466:C:C5'	2.21	0.44
10:AA:1584:U:H2'	10:AA:1585:U:H5'	1.98	0.44
10:AA:1652:A:C2	10:AA:1674:A:N3	2.86	0.44
11:AB:19:HIS:O	11:AB:43:TYR:HA	2.16	0.44
11:AB:122:ASP:HB3	11:AB:125:SER:HB2	1.99	0.44
11:AB:187:LYS:HD2	11:AB:187:LYS:C	2.42	0.44
12:AC:35:ALA:HB2	12:AC:60:GLN:HG3	1.99	0.44
12:AC:50:GLU:OE2	12:AC:52:ARG:HD2	2.17	0.44
12:AC:159:TYR:N	12:AC:159:TYR:CD1	2.85	0.44
13:AD:41:GLU:O	13:AD:44:ARG:HB3	2.17	0.44
14:AE:81:VAL:CG1	14:AE:82:LEU:N	2.80	0.44
16:AG:153:CYS:HA	16:AG:167:THR:HG22	1.99	0.44
20:AK:104:GLU:O	20:AK:106:LYS:N	2.50	0.44
21:AL:52:VAL:HB	21:AL:98:ASN:H	1.82	0.44
22:AM:123:ARG:CG	22:AM:123:ARG:NH1	2.79	0.44
24:AO:48:THR:HG22	24:AO:50:SER:H	1.82	0.44
24:AO:80:ASN:O	24:AO:82:CYS:N	2.49	0.44
26:AQ:15:VAL:HG12	26:AQ:15:VAL:O	2.17	0.44
28:AS:38:LEU:HA	28:AS:41:LEU:HD12	2.00	0.44
28:AS:85:TYR:N	28:AS:85:TYR:CD1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AU:121:GLU:HA	30:AU:124:LEU:CD1	2.47	0.44
32:AW:240:LEU:HD12	32:AW:245:GLY:H	1.83	0.44
33:AX:7:THR:O	33:AX:8:LEU:HB2	2.17	0.44
33:AX:31:PRO:CG	33:AX:39:ILE:HD11	2.46	0.44
34:AY:181:ARG:NH1	34:AY:181:ARG:CG	2.81	0.44
1:B1:8:LYS:HG2	1:B1:56:GLU:OE2	2.17	0.44
2:B2:105:VAL:HG12	2:B2:107:ASN:N	2.32	0.44
2:B2:192:GLU:O	2:B2:196:LEU:HB2	2.18	0.44
4:B4:35:ARG:NH1	4:B4:98:ASN:OD1	2.50	0.44
7:B7:4:VAL:H	10:BA:1229:U:H1'	1.83	0.44
8:B8:43:VAL:HB	22:BM:25:LYS:CE	2.47	0.44
10:BA:135:A:O2'	10:BA:136:U:P	2.75	0.44
10:BA:181:G:C3'	10:BA:182:U:C5'	2.94	0.44
10:BA:292:G:C5	10:BA:293:U:C5	3.06	0.44
10:BA:348:G:O2'	10:BA:349:U:H5'	2.18	0.44
10:BA:1091:G:OP2	10:BA:1092:U:C5	2.71	0.44
10:BA:1396:A:H4'	14:BE:93:ALA:O	2.18	0.44
10:BA:1418:C:H5'	10:BA:1418:C:H6	1.78	0.44
10:BA:1418:C:O2'	10:BA:1419:G:OP1	2.34	0.44
10:BA:1460:U:P	12:BC:9:ASN:HD21	2.41	0.44
10:BA:1514:G:N2	10:BA:1540:G:C2'	2.78	0.44
10:BA:1713:G:H1'	10:BA:1734:A:C2	2.53	0.44
12:BC:45:THR:HG23	12:BC:46:PRO:HD2	2.00	0.44
12:BC:96:PHE:N	12:BC:96:PHE:CD1	2.86	0.44
14:BE:207:THR:HG22	14:BE:207:THR:O	2.18	0.44
14:BE:216:TYR:HD1	14:BE:217:TYR:CD1	2.35	0.44
15:BF:44:TYR:O	15:BF:48:MET:N	2.44	0.44
17:BH:31:SER:OG	17:BH:34:VAL:HG23	2.18	0.44
24:BO:127:LEU:HD12	24:BO:131:TYR:CD2	2.52	0.44
25:BP:119:ALA:O	25:BP:120:ILE:C	2.59	0.44
26:BQ:17:LEU:C	26:BQ:20:LYS:HE2	2.42	0.44
27:BR:289:ALA:O	27:BR:291:VAL:N	2.50	0.44
28:BS:60:LYS:NZ	28:BS:64:LYS:CE	2.80	0.44
28:BS:101:VAL:O	28:BS:108:VAL:N	2.44	0.44
29:BT:32:LEU:HD11	29:BT:58:TYR:CZ	2.53	0.44
32:BW:70:GLN:OE1	32:BW:78:VAL:HG21	2.18	0.44
1:A1:9:ALA:CB	1:A1:31:LEU:HD23	2.29	0.44
2:A2:72:ASN:C	2:A2:73:PHE:CD1	2.96	0.44
4:A4:25:PRO:C	4:A4:27:SER:H	2.26	0.44
4:A4:144:ALA:C	4:A4:145:PHE:CD1	2.96	0.44
8:A8:43:VAL:CG2	22:AM:25:LYS:HE3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:25:A:H61	10:AA:593:A:N6	2.15	0.44
10:AA:86:C:H1'	10:AA:444:A:OP1	2.18	0.44
10:AA:125:U:H2'	10:AA:125:U:O2	2.16	0.44
10:AA:328:G:H2'	26:AQ:132:LYS:HZ3	1.80	0.44
10:AA:425:A:H2'	10:AA:426:G:O4'	2.17	0.44
10:AA:715:G:C2	10:AA:716:G:N1	2.85	0.44
10:AA:756:G:H4'	10:AA:757:C:OP1	2.17	0.44
10:AA:794:A:C5'	10:AA:795:A:OP2	2.62	0.44
10:AA:937:U:H1'	24:AO:63:PRO:HB2	2.00	0.44
10:AA:976:A:C2'	10:AA:977:U:H5'	2.48	0.44
10:AA:986:G:O2'	10:AA:987:U:H5'	2.18	0.44
10:AA:1010:A:H2'	10:AA:1011:C:C6	2.53	0.44
10:AA:1054:U:C5'	10:AA:1055:G:OP1	2.65	0.44
10:AA:1144:A:H2'	10:AA:1145:C:C6	2.53	0.44
10:AA:1511:A:O2'	10:AA:1512:G:P	2.76	0.44
10:AA:1667:U:H2'	10:AA:1668:U:O4'	2.17	0.44
11:AB:13:LEU:HA	11:AB:169:MET:HE3	1.99	0.44
12:AC:226:GLU:HB2	27:AR:208:THR:H	1.83	0.44
14:AE:50:LYS:HB3	14:AE:51:TYR:CD1	2.53	0.44
14:AE:229:ASP:OD2	35:AZ:16:LEU:HD13	2.18	0.44
17:AH:30:VAL:HG13	17:AH:34:VAL:HB	1.98	0.44
17:AH:112:THR:O	17:AH:113:HIS:C	2.61	0.44
19:AJ:117:THR:HG22	19:AJ:118:ALA:H	1.83	0.44
21:AL:75:LEU:CD2	21:AL:82:ILE:HD12	2.42	0.44
21:AL:90:GLY:O	21:AL:91:CYS:C	2.61	0.44
22:AM:134:ARG:O	22:AM:136:GLN:N	2.50	0.44
27:AR:176:SER:C	27:AR:178:ASN:H	2.26	0.44
32:AW:6:LYS:HB2	32:AW:30:ARG:HH12	1.81	0.44
32:AW:78:VAL:O	32:AW:79:ARG:HD3	2.17	0.44
32:AW:144:HIS:CG	32:AW:145:ASP:N	2.85	0.44
32:AW:255:LYS:HA	32:AW:260:TYR:H	1.82	0.44
33:AX:7:THR:CG2	33:AX:10:LYS:HB2	2.34	0.44
4:B4:69:GLU:HB2	4:B4:86:LYS:CE	2.47	0.44
4:B4:121:GLN:NE2	4:B4:145:PHE:CD2	2.80	0.44
8:B8:38:LYS:CE	10:BA:1507:U:O3'	2.65	0.44
8:B8:73:LEU:HD23	8:B8:73:LEU:N	2.33	0.44
9:B9:146:UNK:HA	9:B9:149:UNK:HG1	1.99	0.44
10:BA:128:A:H2'	10:BA:129:G:H5'	2.00	0.44
10:BA:238:G:H2'	10:BA:239:A:H5'	2.00	0.44
10:BA:574:A:N7	10:BA:577:C:N4	2.66	0.44
10:BA:643:U:C2'	10:BA:644:U:O4'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:666:A:O2'	10:BA:667:C:C5'	2.59	0.44
10:BA:872:A:H2'	10:BA:873:G:H5'	1.99	0.44
10:BA:883:A:H3'	10:BA:883:A:C8	2.52	0.44
10:BA:1046:G:C2	10:BA:1047:C:C5	3.05	0.44
10:BA:1081:G:H8	10:BA:1081:G:C5'	2.19	0.44
10:BA:1190:G:O4'	10:BA:1415:A:N6	2.50	0.44
10:BA:1442:A:N7	10:BA:1512:G:H1'	2.32	0.44
10:BA:1605:A:HO2'	10:BA:1606:C:P	2.33	0.44
12:BC:71:GLU:O	12:BC:75:PHE:CD2	2.71	0.44
12:BC:146:LYS:HZ3	12:BC:153:MET:CE	2.31	0.44
13:BD:133:HIS:C	13:BD:134:ILE:HG13	2.43	0.44
14:BE:32:LYS:HB2	14:BE:241:PHE:HE2	1.82	0.44
14:BE:142:LYS:HB3	14:BE:152:ALA:HB1	1.98	0.44
14:BE:235:GLU:O	14:BE:236:ASP:C	2.60	0.44
15:BF:48:MET:O	15:BF:52:LYS:HG3	2.17	0.44
16:BG:154:ARG:HA	16:BG:157:ALA:HB3	2.00	0.44
19:BJ:38:ILE:HG12	19:BJ:104:PHE:HE2	1.82	0.44
21:BL:95:LEU:CD2	21:BL:126:VAL:HG22	2.48	0.44
22:BM:1:MET:N	22:BM:3:PHE:CE2	2.85	0.44
22:BM:16:ARG:NH1	22:BM:19:ASN:O	2.50	0.44
23:BN:22:VAL:O	23:BN:23:CYS:C	2.61	0.44
24:BO:80:ASN:O	24:BO:82:CYS:N	2.51	0.44
28:BS:76:GLU:C	28:BS:78:PRO:HD3	2.43	0.44
30:BU:32:VAL:HG12	30:BU:36:ILE:CD1	2.48	0.44
30:BU:97:VAL:HG22	30:BU:97:VAL:O	2.17	0.44
31:BV:35:LEU:HD11	31:BV:50:ILE:CG2	2.48	0.44
31:BV:76:GLU:O	31:BV:79:GLU:HB3	2.18	0.44
32:BW:48:LEU:N	32:BW:48:LEU:CD2	2.73	0.44
34:BY:23:LYS:CD	34:BY:41:LEU:HD23	2.29	0.44
34:BY:71:GLY:CA	34:BY:98:ARG:NH1	2.81	0.44
34:BY:222:GLN:HA	34:BY:225:ALA:HB3	1.98	0.44
1:A1:26:GLN:HE22	1:A1:65:ARG:HA	1.83	0.44
2:A2:64:ARG:HH22	10:AA:323:U:P	2.41	0.44
2:A2:161:LYS:O	2:A2:165:GLU:HG3	2.17	0.44
3:A3:62:LEU:HD11	3:A3:64:TYR:HE1	1.81	0.44
3:A3:174:TYR:CD2	3:A3:182:VAL:HG21	2.52	0.44
4:A4:191:SER:O	4:A4:195:ILE:HG13	2.18	0.44
7:A7:56:GLU:HB3	7:A7:67:TYR:CZ	2.53	0.44
10:AA:262:G:OP2	34:AY:198:LYS:HE3	2.17	0.44
10:AA:280:U:H2'	10:AA:281:A:H8	1.83	0.44
10:AA:328:G:O3'	26:AQ:132:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:630:A:OP1	17:AH:6:ILE:HD11	2.17	0.44
10:AA:747:G:H21	10:AA:755:G:H1	1.64	0.44
10:AA:772:A:H2'	10:AA:773:U:H5'	1.99	0.44
10:AA:840:A:O2'	10:AA:841:A:H5"	2.18	0.44
10:AA:912:A:N3	10:AA:912:A:C3'	2.80	0.44
10:AA:964:G:H2'	10:AA:965:G:O4'	2.18	0.44
10:AA:1173:G:C2'	10:AA:1174:A:OP1	2.65	0.44
10:AA:1190:G:O4'	10:AA:1415:A:N6	2.50	0.44
10:AA:1248:U:OP1	12:AC:149:ARG:HA	2.17	0.44
10:AA:1290:G:N2	10:AA:1291:U:C2	2.86	0.44
10:AA:1409:G:C2	10:AA:1410:C:C2	3.06	0.44
10:AA:1507:U:HO2'	10:AA:1508:G:P	2.41	0.44
10:AA:1583:A:N3	10:AA:1584:U:C5	2.86	0.44
10:AA:1699:A:O2'	10:AA:1700:A:H8	2.01	0.44
11:AB:81:ALA:HB2	11:AB:168:SER:HB3	2.00	0.44
13:AD:37:LYS:CE	13:AD:126:ARG:NH1	2.80	0.44
13:AD:161:THR:C	13:AD:163:PRO:HD2	2.43	0.44
14:AE:231:TRP:CZ3	35:AZ:8:GLN:HB2	2.41	0.44
17:AH:87:GLU:O	17:AH:88:LYS:C	2.60	0.44
22:AM:35:ILE:O	22:AM:37:GLY:N	2.51	0.44
23:AN:4:LYS:O	23:AN:5:LEU:HD12	2.18	0.44
24:AO:87:PRO:O	24:AO:88:GLU:C	2.61	0.44
26:AQ:21:LYS:HZ2	26:AQ:31:VAL:HG23	1.83	0.44
26:AQ:78:LYS:O	26:AQ:79:MET:HB2	2.18	0.44
26:AQ:138:ALA:C	26:AQ:139:LEU:HD23	2.43	0.44
27:AR:113:ARG:O	27:AR:113:ARG:HG3	2.16	0.44
32:AW:127:LYS:HZ2	32:AW:186:GLN:NE2	2.15	0.44
32:AW:134:GLY:HA3	32:AW:135:PRO:HD2	1.73	0.44
32:AW:207:PHE:HE2	32:AW:223:ARG:NE	2.16	0.44
33:AX:52:THR:O	33:AX:53:ASP:C	2.61	0.44
1:B1:21:ARG:HD3	1:B1:21:ARG:HA	1.80	0.44
3:B3:194:THR:O	3:B3:195:PHE:C	2.57	0.44
9:B9:146:UNK:O	9:B9:149:UNK:HG3	2.17	0.44
10:BA:15:U:C6	10:BA:16:G:C8	3.05	0.44
10:BA:44:U:H5'	10:BA:44:U:H6	1.83	0.44
10:BA:66:A:OP1	34:BY:175:LYS:HD3	2.17	0.44
10:BA:71:U:O2'	10:BA:72:G:P	2.75	0.44
10:BA:90:U:OP1	32:BW:3:ARG:CB	2.64	0.44
10:BA:125:U:C4	10:BA:171:U:C4	3.06	0.44
10:BA:341:G:O4'	10:BA:343:C:O2	2.35	0.44
10:BA:538:A:C2	10:BA:588:A:C5	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:646:A:H2'	10:BA:647:U:O4'	2.17	0.44
10:BA:716:G:H2'	10:BA:717:G:C8	2.35	0.44
10:BA:718:A:C3'	10:BA:719:G:H5'	2.48	0.44
10:BA:744:A:H8	10:BA:744:A:O5'	2.00	0.44
10:BA:746:A:N7	10:BA:747:G:N7	2.66	0.44
10:BA:820:U:H2'	10:BA:821:C:O4'	2.17	0.44
10:BA:898:U:H2'	10:BA:899:U:O4'	2.18	0.44
10:BA:1081:G:C2	10:BA:1110:A:C6	3.06	0.44
10:BA:1261:U:C6	10:BA:1261:U:H3'	2.52	0.44
10:BA:1311:C:H4'	10:BA:1312:U:OP2	2.18	0.44
10:BA:1724:U:H6	10:BA:1724:U:H5"	1.83	0.44
12:BC:58:PRO:HA	12:BC:61:VAL:HG23	1.99	0.44
13:BD:38:ASN:HD22	13:BD:40:ARG:HD2	1.80	0.44
17:BH:55:ASP:HB3	17:BH:59:LYS:HA	1.99	0.44
21:BL:95:LEU:HD23	21:BL:126:VAL:HG22	2.00	0.44
22:BM:32:LEU:HD21	22:BM:69:ILE:HD13	2.00	0.44
23:BN:10:PRO:CB	23:BN:12:ASN:HD22	2.30	0.44
25:BP:10:ILE:HG12	25:BP:21:LEU:HB2	1.96	0.44
26:BQ:11:LYS:HB3	26:BQ:53:VAL:CB	2.47	0.44
26:BQ:18:ASN:O	26:BQ:21:LYS:HB2	2.17	0.44
27:BR:111:TYR:CD1	27:BR:111:TYR:C	2.96	0.44
29:BT:82:ILE:O	29:BT:82:ILE:HG22	2.17	0.44
29:BT:86:ASN:OD1	29:BT:94:ASN:HB3	2.18	0.44
31:BV:17:ILE:HD12	31:BV:57:LEU:HD12	2.00	0.44
31:BV:98:ILE:CG2	31:BV:102:THR:HB	2.47	0.44
32:BW:124:LYS:HE2	32:BW:126:LEU:HD23	2.00	0.44
32:BW:127:LYS:O	32:BW:143:THR:HA	2.18	0.44
32:BW:161:THR:CB	32:BW:229:VAL:HB	2.47	0.44
32:BW:188:GLY:C	32:BW:190:ASN:N	2.73	0.44
32:BW:194:VAL:HG11	32:BW:230:LEU:HD23	1.99	0.44
34:BY:62:PRO:O	34:BY:98:ARG:HB3	2.17	0.44
34:BY:136:LYS:HG3	34:BY:178:LYS:O	2.17	0.44
1:A1:29:VAL:HG23	1:A1:41:LEU:O	2.18	0.44
3:A3:144:ARG:HH22	35:AZ:3:SER:CB	2.14	0.44
4:A4:95:ASP:O	4:A4:96:GLY:C	2.60	0.44
5:A5:38:ARG:CZ	10:AA:1751:U:H5	2.26	0.44
6:A6:63:LYS:HG2	6:A6:72:GLN:NE2	2.33	0.44
8:A8:29:LYS:HZ1	10:AA:1509:U:H5'	1.83	0.44
9:A9:148:UNK:HA	9:A9:151:UNK:CG	2.48	0.44
9:A9:150:UNK:O	9:A9:154:UNK:HG3	2.18	0.44
10:AA:65:C:C4	34:AY:133:LEU:HD22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:86:C:O2	10:AA:443:A:H4'	2.18	0.44
10:AA:297:U:O2'	10:AA:298:G:H5'	2.17	0.44
10:AA:384:C:O2'	10:AA:385:C:H5'	2.18	0.44
10:AA:454:C:H2'	10:AA:455:C:H5"	1.95	0.44
10:AA:554:U:H2'	10:AA:555:G:H8	1.83	0.44
10:AA:666:A:H2'	10:AA:667:C:C6	2.53	0.44
10:AA:733:G:H8	10:AA:733:G:O5'	2.01	0.44
10:AA:760:G:O6	25:AP:9:LYS:HE3	2.18	0.44
10:AA:782:A:C8	10:AA:782:A:C3'	3.00	0.44
10:AA:787:A:N9	17:AH:106:THR:O	2.51	0.44
10:AA:926:G:C6	10:AA:927:C:C4	3.06	0.44
10:AA:1198:A:N3	10:AA:1228:A:H2	2.15	0.44
10:AA:1247:A:C2'	12:AC:144:LYS:HE2	2.48	0.44
10:AA:1252:C:O2'	10:AA:1253:G:H5'	2.17	0.44
10:AA:1442:A:N7	10:AA:1512:G:H1'	2.33	0.44
11:AB:186:SER:O	11:AB:187:LYS:C	2.59	0.44
12:AC:205:VAL:C	12:AC:206:LYS:HG3	2.42	0.44
13:AD:5:TYR:C	13:AD:6:ILE:O	2.56	0.44
16:AG:52:GLN:HE22	16:AG:58:LYS:HE2	1.82	0.44
21:AL:106:LEU:O	21:AL:107:GLY:C	2.61	0.44
21:AL:131:LEU:HD23	21:AL:131:LEU:HA	1.90	0.44
26:AQ:18:ASN:O	26:AQ:21:LYS:HB2	2.18	0.44
27:AR:24:VAL:HG23	27:AR:331:GLY:HA2	2.00	0.44
27:AR:75:HIS:HD1	27:AR:95:SER:HB2	1.83	0.44
27:AR:209:PHE:HD2	27:AR:240:TRP:CH2	2.36	0.44
29:AT:41:THR:HG23	29:AT:50:ALA:HB2	1.99	0.44
29:AT:108:LEU:HD22	29:AT:117:ILE:HD13	2.00	0.44
32:AW:101:PHE:CD2	32:AW:113:LEU:HB3	2.53	0.44
32:AW:124:LYS:HE2	32:AW:126:LEU:HD23	2.00	0.44
33:AX:28:ARG:HA	33:AX:28:ARG:HD3	1.57	0.44
34:AY:8:PRO:HB2	34:AY:9:LEU:H	1.58	0.44
2:B2:17:ARG:HG2	2:B2:18:MET:H	1.83	0.44
2:B2:161:LYS:O	2:B2:165:GLU:HG3	2.18	0.44
3:B3:14:LYS:HA	3:B3:17:GLU:OE1	2.17	0.44
3:B3:50:ILE:HB	3:B3:58:LYS:O	2.18	0.44
3:B3:181:GLU:H	3:B3:181:GLU:HG2	1.40	0.44
4:B4:122:THR:HG22	4:B4:123:LEU:N	2.32	0.44
4:B4:186:GLY:O	4:B4:189:GLU:N	2.50	0.44
6:B6:9:ILE:HD12	6:B6:12:GLU:CG	2.48	0.44
6:B6:34:LYS:CB	6:B6:76:ALA:HB3	2.47	0.44
6:B6:44:ILE:HG21	6:B6:52:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:46:SER:O	6:B6:69:VAL:HG23	2.18	0.44
7:B7:9:LYS:CG	7:B7:13:TYR:HE1	2.30	0.44
7:B7:54:PHE:HB3	7:B7:72:GLY:CA	2.47	0.44
8:B8:79:LEU:O	8:B8:83:LEU:HG	2.18	0.44
9:B9:86:THR:CG2	9:B9:87:LYS:H	2.25	0.44
9:B9:148:UNK:O	9:B9:151:UNK:HG3	2.17	0.44
10:BA:74:A:C2	34:BY:182:LEU:HD23	2.53	0.44
10:BA:105:G:O2'	10:BA:779:A:N1	2.49	0.44
10:BA:276:U:H2'	10:BA:277:C:C6	2.53	0.44
10:BA:317:G:N2	10:BA:334:C:H1'	2.33	0.44
10:BA:350:A:H5"	10:BA:351:A:H5'	1.98	0.44
10:BA:559:C:O2	10:BA:559:C:C2'	2.65	0.44
10:BA:742:U:O2'	10:BA:743:U:H5'	2.18	0.44
10:BA:1040:C:C2'	10:BA:1041:A:H5'	2.48	0.44
10:BA:1199:G:HO2'	10:BA:1200:G:P	2.41	0.44
10:BA:1319:U:O4'	10:BA:1489:U:O2	2.35	0.44
10:BA:1557:U:C4	10:BA:1583:A:N6	2.86	0.44
10:BA:1621:G:C4	10:BA:1705:A:C2	3.05	0.44
10:BA:1746:G:H4'	10:BA:1747:A:OP1	2.16	0.44
10:BA:1750:A:H4'	10:BA:1750:A:OP1	2.18	0.44
12:BC:19:VAL:HG11	23:BN:21:ARG:NE	2.32	0.44
12:BC:175:VAL:CG2	12:BC:188:LYS:HG2	2.48	0.44
13:BD:47:MET:O	13:BD:50:ALA:HB3	2.18	0.44
16:BG:117:ARG:HE	16:BG:189:LYS:NZ	2.15	0.44
17:BH:68:ARG:O	17:BH:68:ARG:CD	2.66	0.44
22:BM:81:ILE:N	29:BT:40:TRP:HZ2	2.16	0.44
25:BP:43:ALA:HB1	25:BP:48:VAL:O	2.17	0.44
26:BQ:15:VAL:HG12	26:BQ:15:VAL:O	2.17	0.44
26:BQ:66:ARG:O	26:BQ:126:GLN:CG	2.65	0.44
27:BR:84:LEU:HD22	27:BR:91:ALA:HB2	1.99	0.44
28:BS:85:TYR:N	28:BS:85:TYR:CD1	2.85	0.44
29:BT:44:SER:O	29:BT:45:VAL:HB	2.18	0.44
32:BW:177:LEU:H	32:BW:177:LEU:CD2	2.30	0.44
32:BW:244:ASP:O	32:BW:246:VAL:N	2.50	0.44
33:BX:31:PRO:CG	33:BX:39:ILE:HD11	2.47	0.44
34:BY:127:VAL:HG12	34:BY:128:THR:N	2.33	0.44
35:BZ:19:ASP:C	35:BZ:21:LYS:H	2.24	0.44
1:A1:61:GLU:HG3	20:AK:121:ARG:NH1	2.32	0.43
2:A2:65:ALA:HB3	2:A2:180:PRO:CB	2.48	0.43
2:A2:114:SER:HA	2:A2:172:ILE:HD11	2.00	0.43
2:A2:185:ARG:NH1	10:AA:203:U:H1'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:9:LYS:HG2	7:A7:13:TYR:CE1	2.52	0.43
7:A7:14:LYS:C	7:A7:16:LEU:N	2.72	0.43
7:A7:25:LYS:HG3	7:A7:27:ASP:H	1.83	0.43
8:A8:45:ILE:HD12	22:AM:1:MET:CE	2.48	0.43
10:AA:72:G:C2	10:AA:76:A:N3	2.86	0.43
10:AA:243:G:C6	10:AA:244:A:C6	3.06	0.43
10:AA:280:U:O2'	10:AA:281:A:H5'	2.18	0.43
10:AA:359:U:O2'	10:AA:360:U:H5'	2.18	0.43
10:AA:397:U:H4'	34:AY:76:LEU:HD21	2.00	0.43
10:AA:407:A:C4'	10:AA:408:C:OP2	2.49	0.43
10:AA:533:G:H8	10:AA:533:G:H3'	1.82	0.43
10:AA:658:C:C2	10:AA:659:G:C8	3.06	0.43
10:AA:880:G:OP2	20:AK:38:ASN:ND2	2.48	0.43
10:AA:1031:A:H2'	10:AA:1032:U:O4'	2.18	0.43
10:AA:1203:U:O4	10:AA:1227:G:N2	2.51	0.43
10:AA:1425:G:H4'	28:AS:127:THR:CG2	2.48	0.43
10:AA:1426:G:H2'	10:AA:1427:C:O4'	2.18	0.43
10:AA:1470:C:OP2	29:AT:76:ILE:HG13	2.18	0.43
10:AA:1717:C:H6	10:AA:1717:C:C5'	2.19	0.43
11:AB:189:GLU:HG3	11:AB:190:GLU:N	2.33	0.43
12:AC:10:LYS:NZ	19:AJ:86:LYS:HZ2	2.15	0.43
18:AI:31:LEU:HA	18:AI:31:LEU:HD23	1.65	0.43
18:AI:120:VAL:CG1	18:AI:121:ALA:H	2.30	0.43
22:AM:25:LYS:NZ	22:AM:57:ARG:HB3	2.33	0.43
24:AO:6:MET:HE1	24:AO:119:LEU:HA	1.99	0.43
24:AO:90:LEU:HD21	24:AO:141:TRP:HE1	1.83	0.43
25:AP:10:ILE:HA	25:AP:20:GLN:O	2.18	0.43
26:AQ:17:LEU:CD2	26:AQ:20:LYS:HZ1	2.31	0.43
27:AR:46:SER:OG	27:AR:47:ARG:N	2.51	0.43
28:AS:98:ILE:HG22	28:AS:111:GLU:HG2	1.99	0.43
29:AT:9:THR:CG2	29:AT:10:VAL:H	2.29	0.43
29:AT:82:ILE:O	29:AT:82:ILE:HG22	2.16	0.43
32:AW:222:THR:CG2	32:AW:223:ARG:N	2.80	0.43
34:AY:127:VAL:HG12	34:AY:128:THR:N	2.33	0.43
1:B1:46:LYS:HZ2	16:BG:140:ARG:HH21	1.64	0.43
2:B2:22:ARG:HD2	2:B2:25:ARG:NH1	2.33	0.43
2:B2:149:LYS:O	2:B2:153:ARG:HB2	2.18	0.43
3:B3:62:LEU:HD11	3:B3:64:TYR:HE1	1.83	0.43
4:B4:197:GLU:O	4:B4:201:LYS:HG3	2.18	0.43
5:B5:56:LYS:HG3	20:BK:120:ALA:O	2.18	0.43
6:B6:45:PHE:CD2	24:BO:57:ARG:CD	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:B8:90:ARG:O	8:B8:91:LYS:C	2.61	0.43
9:B9:72:LYS:N	10:BA:1160:G:OP1	2.50	0.43
10:BA:224:G:O2'	10:BA:225:C:H5"	2.17	0.43
10:BA:312:C:O2'	10:BA:313:G:P	2.76	0.43
10:BA:463:A:O2'	10:BA:464:G:H5'	2.17	0.43
10:BA:475:C:N4	10:BA:476:U:C4	2.86	0.43
10:BA:478:G:H3'	10:BA:479:G:O4'	2.18	0.43
10:BA:561:A:C2	10:BA:577:C:H1'	2.53	0.43
10:BA:604:G:H1'	10:BA:607:G:O2'	2.18	0.43
10:BA:842:U:H5'	10:BA:842:U:H6	1.83	0.43
10:BA:1279:U:H2'	10:BA:1280:G:C5'	2.48	0.43
10:BA:1667:U:H2'	10:BA:1668:U:O4'	2.17	0.43
11:BB:14:LEU:HD13	11:BB:19:HIS:CE1	2.53	0.43
11:BB:121:THR:HG22	11:BB:143:LEU:HD12	1.99	0.43
12:BC:83:SER:C	12:BC:85:ASP:N	2.76	0.43
12:BC:222:THR:HG22	12:BC:223:ASP:N	2.32	0.43
13:BD:15:PRO:CG	13:BD:23:ARG:HH12	2.31	0.43
13:BD:123:HIS:CE1	33:BX:34:ARG:HD3	2.52	0.43
14:BE:224:ARG:CD	35:BZ:40:PHE:CZ	2.98	0.43
17:BH:7:LEU:HG	17:BH:11:LEU:HD12	2.00	0.43
17:BH:79:TYR:CD1	17:BH:79:TYR:N	2.82	0.43
18:BI:17:ASN:H	18:BI:125:ARG:HH12	1.61	0.43
18:BI:24:VAL:HG13	18:BI:67:ILE:CG1	2.48	0.43
18:BI:41:ILE:HD13	18:BI:50:ILE:HD12	1.99	0.43
20:BK:98:ARG:O	20:BK:99:ALA:HB2	2.17	0.43
22:BM:107:THR:O	22:BM:111:GLU:HG3	2.18	0.43
23:BN:39:ARG:NH1	23:BN:39:ARG:HG2	2.33	0.43
26:BQ:4:GLN:NE2	26:BQ:10:GLN:OE1	2.51	0.43
26:BQ:35:LYS:CG	26:BQ:36:ASN:H	2.27	0.43
27:BR:77:HIS:CG	27:BR:78:PHE:N	2.86	0.43
27:BR:239:ILE:HD11	27:BR:270:VAL:HG21	2.00	0.43
29:BT:29:ALA:HB1	29:BT:31:LYS:HE3	2.00	0.43
29:BT:108:LEU:HD22	29:BT:117:ILE:HD13	2.00	0.43
30:BU:83:LEU:HD13	30:BU:85:HIS:NE2	2.33	0.43
31:BV:35:LEU:HD22	31:BV:47:ARG:HG2	2.00	0.43
32:BW:213:LYS:HA	32:BW:218:ASN:O	2.18	0.43
34:BY:5:ILE:CD1	34:BY:111:LEU:HD12	2.43	0.43
34:BY:87:ARG:O	34:BY:88:ARG:CB	2.65	0.43
1:A1:50:ARG:N	1:A1:53:ASP:OD2	2.50	0.43
2:A2:12:ARG:HG3	2:A2:13:ALA:N	2.33	0.43
3:A3:193:HIS:ND1	6:A6:29:TYR:HB3	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:119:LYS:HD2	10:AA:911:A:OP1	2.18	0.43
5:A5:8:ALA:CB	10:AA:1744:U:C5'	2.96	0.43
7:A7:30:GLY:C	7:A7:39:ASN:HD22	2.26	0.43
8:A8:66:VAL:HG11	10:AA:1506:G:C6	2.52	0.43
9:A9:148:UNK:HA	9:A9:151:UNK:HG3	2.00	0.43
10:AA:65:C:O2'	10:AA:66:A:OP1	2.28	0.43
10:AA:134:C:O2	10:AA:134:C:H2'	2.19	0.43
10:AA:455:C:H2'	10:AA:456:A:O4'	2.19	0.43
10:AA:520:A:C5	10:AA:521:U:C5	3.06	0.43
10:AA:682:C:H2'	10:AA:683:A:C8	2.54	0.43
10:AA:761:U:C6	25:AP:7:THR:O	2.71	0.43
10:AA:876:A:O2'	10:AA:877:G:OP2	2.32	0.43
10:AA:909:C:OP1	10:AA:1752:U:C5	2.71	0.43
10:AA:1033:A:C2	10:AA:1034:A:N3	2.86	0.43
10:AA:1109:U:OP1	21:AL:61:LYS:HE3	2.18	0.43
10:AA:1212:U:N3	10:AA:1215:G:OP2	2.44	0.43
10:AA:1227:G:C2'	10:AA:1228:A:OP2	2.66	0.43
10:AA:1298:A:C6	10:AA:1299:C:N4	2.85	0.43
10:AA:1299:C:H2'	10:AA:1300:G:O4'	2.19	0.43
10:AA:1413:C:H4'	10:AA:1418:C:H41	1.84	0.43
12:AC:45:THR:HG23	12:AC:46:PRO:HD2	2.00	0.43
12:AC:211:ASP:O	12:AC:212:ASN:C	2.61	0.43
14:AE:27:TRP:HD1	14:AE:38:LYS:HD3	1.84	0.43
16:AG:47:THR:O	16:AG:47:THR:HG22	2.17	0.43
18:AI:11:THR:HG22	18:AI:22:ALA:HB3	2.00	0.43
18:AI:42:ASN:CB	18:AI:43:PRO:HD3	2.41	0.43
22:AM:61:LEU:HD22	22:AM:65:GLN:HE21	1.81	0.43
22:AM:123:ARG:NH1	22:AM:123:ARG:HG2	2.32	0.43
24:AO:49:PRO:HG3	24:AO:74:LEU:CD2	2.43	0.43
25:AP:28:PRO:O	25:AP:29:ASP:CG	2.61	0.43
25:AP:31:PRO:O	25:AP:32:THR:C	2.61	0.43
26:AQ:66:ARG:O	26:AQ:126:GLN:CG	2.67	0.43
26:AQ:87:ARG:HH11	26:AQ:104:ARG:CZ	2.31	0.43
31:AV:48:ASN:O	31:AV:49:LYS:C	2.61	0.43
31:AV:72:LYS:O	31:AV:73:VAL:C	2.61	0.43
32:AW:46:VAL:HA	32:AW:50:GLU:OE1	2.19	0.43
32:AW:258:PHE:CD1	32:AW:258:PHE:N	2.86	0.43
34:AY:62:PRO:O	34:AY:97:VAL:HG13	2.18	0.43
2:B2:36:THR:N	2:B2:103:THR:HG23	2.29	0.43
2:B2:87:LEU:CD2	2:B2:171:ARG:NH1	2.74	0.43
2:B2:174:ALA:HB1	2:B2:189:TYR:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:130:LEU:O	3:B3:132:LEU:N	2.52	0.43
4:B4:75:LEU:C	4:B4:79:SER:HG	2.25	0.43
4:B4:120:TRP:CZ3	4:B4:156:SER:HA	2.52	0.43
5:B5:5:ARG:HH21	10:BA:1748:U:H3'	1.83	0.43
7:B7:11:ARG:CD	7:B7:15:GLN:HE21	2.31	0.43
7:B7:61:TRP:HE1	12:BC:26:SER:HB2	1.82	0.43
9:B9:158:UNK:HA	9:B9:161:UNK:HG3	1.99	0.43
10:BA:41:U:H4'	10:BA:42:A:O5'	2.18	0.43
10:BA:45:A:H61	10:BA:425:A:H4'	1.78	0.43
10:BA:64:U:O2'	10:BA:65:C:O5'	2.30	0.43
10:BA:237:U:C4	10:BA:238:G:H1'	2.53	0.43
10:BA:264:U:O2	10:BA:264:U:H2'	2.18	0.43
10:BA:285:C:H2'	10:BA:286:A:O4'	2.18	0.43
10:BA:313:G:O2'	10:BA:314:A:OP2	2.35	0.43
10:BA:317:G:OP1	26:BQ:56:LYS:NZ	2.50	0.43
10:BA:341:G:H5"	10:BA:342:U:O3'	2.18	0.43
10:BA:679:U:O2'	10:BA:680:U:H5'	2.18	0.43
10:BA:751:U:C5	10:BA:752:C:C4	3.06	0.43
10:BA:763:U:H4'	10:BA:764:U:OP2	2.16	0.43
10:BA:834:A:H4'	10:BA:835:U:OP1	2.18	0.43
10:BA:905:C:H1'	20:BK:138:ASP:HB2	2.00	0.43
10:BA:948:A:C2'	10:BA:949:A:C5'	2.92	0.43
10:BA:1148:G:H5"	38:BA:2373:HOH:O	2.18	0.43
10:BA:1313:G:H4'	27:BR:101:ARG:NH2	2.34	0.43
10:BA:1469:U:OP1	29:BT:75:GLY:CA	2.65	0.43
13:BD:15:PRO:CG	13:BD:23:ARG:NH1	2.80	0.43
14:BE:78:MET:HE2	14:BE:78:MET:HA	2.01	0.43
14:BE:145:TRP:HZ3	14:BE:174:PRO:CB	2.29	0.43
15:BF:34:THR:HG23	15:BF:70:VAL:CG1	2.47	0.43
15:BF:49:LYS:HG2	15:BF:53:LYS:HZ1	1.83	0.43
16:BG:99:THR:O	16:BG:99:THR:CG2	2.65	0.43
16:BG:138:PRO:HG2	16:BG:139:MET:H	1.84	0.43
20:BK:27:VAL:HG11	20:BK:90:ILE:HG12	1.99	0.43
21:BL:75:LEU:HD12	21:BL:78:ASN:HD22	1.83	0.43
22:BM:18:LEU:CD2	22:BM:70:THR:HG23	2.48	0.43
24:BO:108:ARG:HG2	24:BO:108:ARG:O	2.18	0.43
26:BQ:73:LEU:HD12	26:BQ:120:ASP:C	2.43	0.43
26:BQ:73:LEU:HD12	26:BQ:120:ASP:O	2.18	0.43
26:BQ:97:ASN:ND2	26:BQ:97:ASN:O	2.51	0.43
27:BR:192:TRP:O	27:BR:215:ASN:HA	2.18	0.43
27:BR:200:ASN:O	27:BR:201:THR:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:240:TRP:CD1	27:BR:240:TRP:N	2.86	0.43
32:BW:6:LYS:HB2	32:BW:30:ARG:HH12	1.82	0.43
32:BW:42:LEU:CD1	32:BW:47:LEU:HB2	2.46	0.43
32:BW:78:VAL:O	32:BW:79:ARG:HD3	2.18	0.43
35:BZ:82:ALA:O	35:BZ:86:ILE:HG13	2.18	0.43
1:A1:8:LYS:HG2	1:A1:56:GLU:OE2	2.18	0.43
3:A3:84:LEU:HD23	3:A3:84:LEU:HA	1.70	0.43
3:A3:133:PRO:HG2	3:A3:162:PHE:CE2	2.54	0.43
4:A4:81:ASP:OD1	4:A4:81:ASP:C	2.61	0.43
4:A4:174:ILE:HG22	4:A4:175:ASN:HD22	1.82	0.43
4:A4:217:THR:HG22	4:A4:218:ILE:H	1.82	0.43
6:A6:30:PHE:CZ	24:AO:63:PRO:HB3	2.53	0.43
6:A6:54:CYS:HB2	6:A6:61:LEU:HD21	2.00	0.43
8:A8:41:HIS:HA	8:A8:74:LYS:O	2.18	0.43
10:AA:1:A:C2'	14:AE:180:VAL:CG1	2.92	0.43
10:AA:230:A:H2'	10:AA:231:U:O4'	2.18	0.43
10:AA:272:U:H2'	10:AA:273:A:H5"	1.99	0.43
10:AA:306:A:N6	10:AA:343:C:O2	2.50	0.43
10:AA:388:A:C2'	10:AA:389:G:H5'	2.47	0.43
10:AA:391:A:H5'	10:AA:392:A:C5'	2.41	0.43
10:AA:507:G:H2'	10:AA:508:A:O4'	2.18	0.43
10:AA:604:G:N2	21:AL:19:ARG:NH2	2.60	0.43
10:AA:706:U:O2'	10:AA:707:U:H5'	2.18	0.43
10:AA:718:A:C3'	10:AA:719:G:H5'	2.48	0.43
10:AA:744:A:H8	10:AA:744:A:O5'	2.01	0.43
10:AA:857:G:H4'	24:AO:110:ASP:HA	2.01	0.43
10:AA:898:U:H2'	10:AA:899:U:O4'	2.18	0.43
10:AA:972:G:C2'	10:AA:973:A:H5'	2.48	0.43
10:AA:1033:A:H2'	10:AA:1034:A:O4'	2.18	0.43
10:AA:1040:C:C2'	10:AA:1041:A:H5'	2.49	0.43
10:AA:1157:U:HO2'	10:AA:1158:U:P	2.37	0.43
10:AA:1277:U:O2	10:AA:1277:U:C2'	2.67	0.43
10:AA:1279:U:H2'	10:AA:1280:G:C5'	2.47	0.43
10:AA:1299:C:O2'	12:AC:162:CYS:CB	2.66	0.43
10:AA:1313:G:OP1	27:AR:73:THR:HB	2.18	0.43
10:AA:1366:G:H2'	10:AA:1367:C:O4'	2.18	0.43
10:AA:1453:C:C2'	10:AA:1454:A:H5'	2.49	0.43
10:AA:1585:U:OP2	16:AG:58:LYS:HE2	2.18	0.43
10:AA:1692:C:O2'	10:AA:1693:A:H5'	2.18	0.43
11:AB:159:CYS:SG	11:AB:170:ILE:HD12	2.58	0.43
11:AB:179:LYS:HE3	11:AB:191:TRP:CH2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AC:146:LYS:HZ3	12:AC:153:MET:CE	2.32	0.43
12:AC:175:VAL:CG2	12:AC:188:LYS:HG2	2.49	0.43
13:AD:87:SER:O	13:AD:88:GLU:C	2.61	0.43
13:AD:171:ARG:CG	13:AD:175:LYS:HZ2	2.31	0.43
14:AE:90:GLN:OE1	14:AE:95:GLN:HG2	2.18	0.43
20:AK:150:ARG:O	20:AK:151:LEU:HB3	2.18	0.43
22:AM:41:ARG:NH2	29:AT:41:THR:O	2.52	0.43
22:AM:81:ILE:N	29:AT:40:TRP:HZ2	2.15	0.43
25:AP:2:THR:HG22	25:AP:3:ILE:CD1	2.48	0.43
26:AQ:43:THR:HA	26:AQ:44:PRO:HD2	1.81	0.43
27:AR:225:GLY:O	27:AR:242:ILE:CD1	2.61	0.43
27:AR:243:LEU:O	27:AR:245:LEU:HG	2.19	0.43
30:AU:58:LEU:O	30:AU:61:ALA:HB3	2.19	0.43
35:AZ:14:THR:O	35:AZ:14:THR:HG22	2.18	0.43
1:B1:39:ARG:HD3	1:B1:41:LEU:HD13	2.01	0.43
2:B2:37:LYS:HE2	2:B2:101:THR:HG22	2.00	0.43
3:B3:22:ALA:O	3:B3:25:GLU:HB2	2.18	0.43
3:B3:127:LEU:HD13	3:B3:153:ILE:CD1	2.48	0.43
4:B4:194:LEU:HA	4:B4:194:LEU:HD12	1.78	0.43
5:B5:8:ALA:CB	10:BA:1744:U:C5'	2.96	0.43
6:B6:37:GLN:O	6:B6:39:GLN:HG2	2.19	0.43
8:B8:29:LYS:NZ	10:BA:1509:U:C5'	2.81	0.43
8:B8:44:PHE:O	8:B8:44:PHE:CD1	2.70	0.43
10:BA:3:C:H41	13:BD:16:ARG:CB	2.31	0.43
10:BA:120:A:O2'	10:BA:121:U:H5'	2.17	0.43
10:BA:223:C:H2'	10:BA:224:G:H8	1.82	0.43
10:BA:243:G:H1'	32:BW:204:GLN:NE2	2.32	0.43
10:BA:262:G:C2	10:BA:264:U:O4	2.71	0.43
10:BA:359:U:H2'	10:BA:360:U:C5'	2.47	0.43
10:BA:444:A:O2'	10:BA:445:U:P	2.76	0.43
10:BA:453:G:OP1	13:BD:3:LYS:HE3	2.18	0.43
10:BA:454:C:H2'	10:BA:455:C:H5"	1.98	0.43
10:BA:482:A:H2'	10:BA:483:C:C6	2.53	0.43
10:BA:504:A:H5'	13:BD:171:ARG:HG2	2.00	0.43
10:BA:597:U:H2'	10:BA:598:A:C8	2.52	0.43
10:BA:733:G:H8	10:BA:733:G:O5'	2.01	0.43
10:BA:882:G:O6	10:BA:883:A:N1	2.52	0.43
10:BA:1064:A:O2'	10:BA:1065:A:O5'	2.36	0.43
10:BA:1202:A:N6	10:BA:1227:G:H1'	2.33	0.43
10:BA:1293:A:O2'	10:BA:1294:A:OP2	2.31	0.43
10:BA:1426:G:H2'	10:BA:1427:C:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1660:A:N6	10:BA:1666:G:C6	2.86	0.43
11:BB:195:VAL:HG12	11:BB:199:TYR:HE1	1.83	0.43
12:BC:24:LEU:HD22	12:BC:28:PHE:HE2	1.84	0.43
12:BC:56:THR:HA	12:BC:94:ILE:HB	2.01	0.43
14:BE:162:LYS:HD2	14:BE:162:LYS:H	1.82	0.43
14:BE:213:LYS:O	14:BE:217:TYR:HD1	2.01	0.43
17:BH:14:LEU:HD23	17:BH:72:CYS:SG	2.58	0.43
19:BJ:64:THR:HG22	19:BJ:77:TRP:CE3	2.50	0.43
22:BM:81:ILE:HG12	29:BT:40:TRP:HH2	1.84	0.43
24:BO:4:MET:HG3	24:BO:11:LYS:HA	1.99	0.43
25:BP:70:PHE:CD1	25:BP:70:PHE:N	2.87	0.43
26:BQ:17:LEU:HA	26:BQ:20:LYS:NZ	2.33	0.43
26:BQ:74:VAL:HG13	26:BQ:83:VAL:HG11	2.01	0.43
29:BT:9:THR:CG2	29:BT:69:TYR:OH	2.66	0.43
30:BU:29:LEU:O	30:BU:33:LEU:HG	2.17	0.43
30:BU:121:GLU:HA	30:BU:124:LEU:CD1	2.48	0.43
30:BU:124:LEU:O	30:BU:125:LYS:HG3	2.19	0.43
31:BV:41:VAL:HG11	31:BV:47:ARG:CB	2.48	0.43
31:BV:64:GLY:N	31:BV:65:PRO:HD2	2.33	0.43
31:BV:103:LYS:HD2	31:BV:118:VAL:HG21	1.98	0.43
32:BW:44:LEU:O	32:BW:45:SER:C	2.61	0.43
32:BW:97:THR:HG22	32:BW:97:THR:O	2.17	0.43
33:BX:7:THR:HG22	33:BX:8:LEU:N	2.33	0.43
34:BY:69:VAL:O	34:BY:99:GLY:HA3	2.18	0.43
1:A1:35:LYS:HA	1:A1:35:LYS:HD3	1.89	0.43
2:A2:173:LEU:HB3	2:A2:191:LEU:CD1	2.45	0.43
3:A3:39:SER:OG	3:A3:72:VAL:HG21	2.18	0.43
3:A3:178:THR:C	3:A3:179:THR:OG1	2.62	0.43
5:A5:77:ILE:O	5:A5:78:SER:C	2.61	0.43
10:AA:111:G:OP1	10:AA:111:G:H8	2.01	0.43
10:AA:128:A:H2'	10:AA:129:G:H5'	2.00	0.43
10:AA:444:A:C3'	10:AA:445:U:C6	3.00	0.43
10:AA:482:A:H2'	10:AA:483:C:C6	2.54	0.43
10:AA:675:A:H4'	10:AA:676:C:OP1	2.14	0.43
10:AA:761:U:O2'	10:AA:762:U:P	2.77	0.43
10:AA:837:A:O2'	10:AA:838:U:OP1	2.35	0.43
10:AA:932:G:H5"	24:AO:7:LYS:NZ	2.33	0.43
10:AA:948:A:C5	10:AA:949:A:C8	3.07	0.43
10:AA:1012:C:H2'	10:AA:1013:G:H5'	1.99	0.43
10:AA:1299:C:HO2'	12:AC:162:CYS:CB	2.30	0.43
10:AA:1531:G:C8	22:AM:134:ARG:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AC:108:MET:HE2	12:AC:139:ILE:HD13	2.01	0.43
14:AE:167:ARG:O	14:AE:201:SER:HA	2.18	0.43
18:AI:16:LYS:O	18:AI:16:LYS:HG3	2.19	0.43
18:AI:41:ILE:HD13	18:AI:50:ILE:HD12	1.98	0.43
19:AJ:45:THR:HB	19:AJ:48:VAL:HG21	1.99	0.43
20:AK:95:ILE:HD11	20:AK:126:ILE:HG23	1.99	0.43
22:AM:50:LEU:O	22:AM:52:ILE:HG13	2.19	0.43
22:AM:126:ARG:HG2	22:AM:133:VAL:HA	2.00	0.43
24:AO:32:PRO:O	24:AO:36:VAL:HG23	2.19	0.43
24:AO:137:LEU:HD12	24:AO:138:PRO:CD	2.40	0.43
25:AP:3:ILE:HD13	25:AP:37:LYS:HZ3	1.83	0.43
28:AS:15:GLY:CA	28:AS:114:PHE:HE2	2.31	0.43
32:AW:157:LYS:O	32:AW:160:ASP:OD2	2.36	0.43
6:B6:28:SER:HB2	6:B6:45:PHE:CE1	2.53	0.43
7:B7:73:CYS:O	7:B7:77:LYS:HG3	2.19	0.43
9:B9:129:TYR:CD1	9:B9:129:TYR:C	2.97	0.43
10:BA:110:A:HO2'	10:BA:111:G:P	2.40	0.43
10:BA:188:G:C5	10:BA:190:G:H1'	2.54	0.43
10:BA:272:U:H2'	10:BA:273:A:H5"	2.00	0.43
10:BA:280:U:O2'	10:BA:281:A:H5'	2.18	0.43
10:BA:603:U:O2	21:BL:23:ARG:HA	2.19	0.43
10:BA:804:A:O2'	10:BA:805:G:H5'	2.18	0.43
10:BA:864:U:C2'	10:BA:865:A:H5'	2.48	0.43
10:BA:1016:U:H3	10:BA:1064:A:H61	1.65	0.43
10:BA:1246:C:HO2'	10:BA:1247:A:H5"	1.84	0.43
10:BA:1435:G:C2	10:BA:1436:C:C5	3.07	0.43
10:BA:1487:A:OP2	12:BC:10:LYS:HD3	2.18	0.43
10:BA:1521:C:C2	10:BA:1535:A:C2	3.07	0.43
12:BC:9:ASN:O	12:BC:11:LYS:N	2.51	0.43
14:BE:184:ILE:HG22	14:BE:212:LEU:CD2	2.49	0.43
15:BF:44:TYR:O	15:BF:47:ILE:N	2.51	0.43
15:BF:75:GLY:HA3	15:BF:77:HIS:NE2	2.33	0.43
17:BH:30:VAL:CG1	17:BH:31:SER:N	2.81	0.43
18:BI:14:ARG:H	18:BI:85:GLN:NE2	2.16	0.43
19:BJ:23:LEU:CD2	19:BJ:112:ILE:HG12	2.46	0.43
20:BK:62:VAL:CG1	20:BK:63:LYS:N	2.73	0.43
20:BK:99:ALA:O	20:BK:101:GLY:N	2.52	0.43
21:BL:113:VAL:O	21:BL:114:GLY:C	2.61	0.43
24:BO:87:PRO:O	24:BO:88:GLU:C	2.60	0.43
25:BP:120:ILE:HG22	25:BP:124:LEU:HD12	2.00	0.43
27:BR:31:PHE:N	27:BR:31:PHE:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:89:CYS:O	27:BR:90:PHE:HD1	2.00	0.43
27:BR:157:GLU:O	27:BR:158:LYS:C	2.61	0.43
29:BT:25:HIS:CE1	29:BT:28:LYS:HZ1	2.37	0.43
30:BU:73:VAL:HG12	30:BU:74:PRO:HD2	2.01	0.43
32:BW:42:LEU:HD11	32:BW:47:LEU:N	2.34	0.43
33:BX:8:LEU:C	33:BX:10:LYS:H	2.25	0.43
34:BY:141:ILE:HG21	34:BY:156:ILE:CG2	2.47	0.43
2:A2:26:ALA:O	2:A2:29:LYS:HG2	2.19	0.43
2:A2:126:GLY:O	2:A2:136:THR:HG23	2.17	0.43
2:A2:192:GLU:CB	26:AQ:19:SER:HB3	2.49	0.43
4:A4:97:ARG:HD2	4:A4:97:ARG:HA	1.87	0.43
5:A5:10:ARG:HH11	5:A5:12:GLN:HE21	1.67	0.43
7:A7:51:ASP:HB3	10:AA:1192:C:H5"	2.00	0.43
10:AA:219:C:H2'	10:AA:220:A:H8	1.84	0.43
10:AA:276:U:H2'	10:AA:277:C:C6	2.53	0.43
10:AA:624:A:C8	10:AA:948:A:N6	2.86	0.43
10:AA:683:A:O2'	10:AA:684:A:H5'	2.19	0.43
10:AA:781:C:O2	10:AA:781:C:C2'	2.65	0.43
10:AA:1092:U:O2'	10:AA:1093:A:N7	2.48	0.43
10:AA:1188:A:C4	10:AA:1415:A:C2	3.06	0.43
10:AA:1366:G:N2	10:AA:1374:C:H1'	2.34	0.43
11:AB:75:ARG:O	11:AB:79:GLN:HG2	2.18	0.43
13:AD:136:VAL:HA	13:AD:155:SER:O	2.18	0.43
14:AE:85:THR:HA	14:AE:86:PRO:HD3	1.78	0.43
21:AL:135:PHE:CE1	33:AX:15:ARG:NH1	2.86	0.43
22:AM:9:SER:C	22:AM:11:PHE:N	2.74	0.43
22:AM:88:ARG:C	22:AM:89:ILE:HG13	2.44	0.43
24:AO:50:SER:O	24:AO:54:VAL:HG23	2.18	0.43
24:AO:90:LEU:HG	24:AO:94:ILE:HD11	2.01	0.43
27:AR:43:ILE:HA	27:AR:52:MET:O	2.18	0.43
27:AR:47:ARG:C	27:AR:49:LYS:N	2.76	0.43
27:AR:76:ASN:OD1	27:AR:76:ASN:O	2.36	0.43
27:AR:282:ASN:OD1	27:AR:284:MET:CG	2.58	0.43
27:AR:326:ALA:HB1	27:AR:328:PHE:HE1	1.82	0.43
28:AS:55:SER:HB2	28:AS:58:TYR:CE2	2.52	0.43
32:AW:94:ILE:O	32:AW:95:GLU:C	2.61	0.43
32:AW:176:HIS:CD2	32:AW:176:HIS:H	2.36	0.43
32:AW:244:ASP:O	32:AW:246:VAL:N	2.52	0.43
34:AY:7:TYR:CZ	34:AY:9:LEU:HD12	2.54	0.43
2:B2:3:ILE:O	2:B2:30:GLY:HA3	2.18	0.43
2:B2:109:ILE:HG22	2:B2:191:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:198:PHE:CE1	26:BQ:5:ILE:HG12	2.54	0.43
3:B3:132:LEU:O	3:B3:134:SER:N	2.52	0.43
4:B4:40:PHE:CD1	4:B4:40:PHE:N	2.86	0.43
5:B5:38:ARG:NH2	10:BA:1751:U:H5	2.16	0.43
6:B6:65:THR:CG2	6:B6:66:GLY:H	2.21	0.43
6:B6:68:LYS:HB3	10:BA:1027:U:OP1	2.18	0.43
8:B8:96:VAL:HG11	16:BG:93:GLU:HB3	1.99	0.43
10:BA:430:A:HO2'	10:BA:431:U:P	2.41	0.43
10:BA:474:G:H2'	10:BA:475:C:C6	2.54	0.43
10:BA:491:U:H2'	10:BA:492:C:O4'	2.18	0.43
10:BA:538:A:O2'	10:BA:539:U:O5'	2.36	0.43
10:BA:666:A:H2'	10:BA:667:C:C6	2.53	0.43
10:BA:796:U:O5'	10:BA:796:U:H6	2.01	0.43
10:BA:838:U:H2'	10:BA:838:U:O2	2.18	0.43
10:BA:931:A:P	24:BO:96:LYS:NZ	2.92	0.43
10:BA:945:A:H8	10:BA:945:A:O5'	2.01	0.43
10:BA:948:A:H2'	10:BA:949:A:O4'	2.18	0.43
10:BA:1154:U:C3'	10:BA:1155:A:H5"	2.49	0.43
10:BA:1223:U:HO2'	10:BA:1224:C:C5'	2.31	0.43
10:BA:1263:G:H2'	10:BA:1264:G:C8	2.53	0.43
10:BA:1493:A:H2'	10:BA:1494:U:OP2	2.19	0.43
10:BA:1609:C:H3'	10:BA:1610:G:H5'	2.00	0.43
12:BC:15:VAL:CG1	12:BC:16:ALA:N	2.82	0.43
12:BC:145:LEU:O	12:BC:146:LYS:HG2	2.18	0.43
14:BE:27:TRP:HA	14:BE:27:TRP:CE3	2.53	0.43
14:BE:27:TRP:HA	14:BE:27:TRP:HE3	1.83	0.43
14:BE:174:PRO:HD3	14:BE:198:TYR:HE1	1.83	0.43
16:BG:178:ASN:HA	16:BG:186:ILE:CD1	2.48	0.43
16:BG:183:SER:O	16:BG:184:TRP:C	2.61	0.43
18:BI:107:ILE:H	18:BI:107:ILE:HG13	1.66	0.43
22:BM:41:ARG:HG2	22:BM:41:ARG:O	2.19	0.43
24:BO:144:ASN:OD1	24:BO:145:ALA:N	2.52	0.43
25:BP:84:GLU:HA	25:BP:85:PRO:HD3	1.79	0.43
27:BR:100:LEU:HD12	27:BR:100:LEU:N	2.33	0.43
27:BR:153:PHE:CD2	27:BR:203:PHE:CD2	3.06	0.43
27:BR:212:HIS:CD2	27:BR:212:HIS:N	2.86	0.43
30:BU:48:GLU:OE2	30:BU:72:SER:HB2	2.18	0.43
30:BU:92:GLY:O	30:BU:93:GLU:C	2.61	0.43
31:BV:35:LEU:C	31:BV:35:LEU:CD2	2.91	0.43
31:BV:46:LEU:CD2	31:BV:50:ILE:HD11	2.49	0.43
32:BW:61:VAL:O	32:BW:63:LEU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BX:52:THR:O	33:BX:53:ASP:C	2.62	0.43
2:A2:77:SER:C	26:AQ:23:LEU:HD11	2.43	0.43
6:A6:46:SER:C	6:A6:47:ASN:ND2	2.72	0.43
6:A6:68:LYS:CG	10:AA:1027:U:OP1	2.67	0.43
7:A7:9:LYS:HG3	7:A7:13:TYR:HE1	1.83	0.43
7:A7:82:ILE:CG1	30:AU:17:LYS:HZ2	2.31	0.43
9:A9:91:VAL:O	9:A9:92:HIS:C	2.61	0.43
10:AA:17:C:H2'	10:AA:18:C:C6	2.54	0.43
10:AA:46:A:N3	10:AA:417:A:N6	2.67	0.43
10:AA:68:U:H3'	10:AA:69:A:C8	2.54	0.43
10:AA:89:A:H5"	10:AA:90:U:OP2	2.19	0.43
10:AA:234:G:H2'	10:AA:235:A:O4'	2.18	0.43
10:AA:579:A:O2'	10:AA:580:G:H5'	2.19	0.43
10:AA:610:G:C2	10:AA:1078:U:O2	2.71	0.43
10:AA:633:U:O2'	10:AA:634:C:P	2.77	0.43
10:AA:670:G:H2'	10:AA:671:A:O4'	2.18	0.43
10:AA:679:U:O2'	10:AA:680:U:H5'	2.19	0.43
10:AA:690:A:O2'	10:AA:691:A:H5'	2.18	0.43
10:AA:787:A:C4	17:AH:106:THR:O	2.72	0.43
10:AA:834:A:H4'	10:AA:835:U:OP1	2.18	0.43
10:AA:842:U:C6	10:AA:842:U:C3'	3.01	0.43
10:AA:986:G:C2	10:AA:987:U:C5	3.07	0.43
10:AA:1330:U:O3'	29:AT:138:THR:HG23	2.19	0.43
10:AA:1362:U:H2'	10:AA:1363:U:C6	2.53	0.43
10:AA:1518:G:C2	10:AA:1519:U:C5	3.06	0.43
10:AA:1529:U:OP1	10:AA:1529:U:C4'	2.67	0.43
10:AA:1653:C:H5'	34:AY:65:GLN:CD	2.43	0.43
10:AA:1715:A:H3'	10:AA:1715:A:H8	1.84	0.43
11:AB:149:PRO:C	11:AB:151:ALA:N	2.77	0.43
12:AC:35:ALA:CB	12:AC:57:LYS:HB2	2.48	0.43
12:AC:71:GLU:O	12:AC:75:PHE:CD2	2.71	0.43
14:AE:144:TYR:HE1	35:AZ:24:ILE:HD12	1.83	0.43
14:AE:184:ILE:HD13	14:AE:208:ARG:HG3	2.01	0.43
15:AF:27:ARG:O	15:AF:28:GLY:C	2.61	0.43
16:AG:146:ILE:O	16:AG:147:TYR:C	2.60	0.43
17:AH:114:GLU:O	17:AH:117:ARG:HG3	2.19	0.43
18:AI:4:GLN:O	18:AI:5:LYS:CB	2.63	0.43
20:AK:22:GLY:C	20:AK:24:ASN:N	2.76	0.43
26:AQ:48:ILE:HB	26:AQ:49:GLU:OE1	2.19	0.43
26:AQ:75:ILE:HG22	26:AQ:76:SER:N	2.34	0.43
27:AR:241:ASP:HB2	27:AR:249:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AT:22:TYR:O	29:AT:22:TYR:CD1	2.71	0.43
29:AT:45:VAL:HG21	29:AT:83:PHE:CZ	2.54	0.43
30:AU:79:LEU:HD22	30:AU:103:LEU:CD1	2.35	0.43
31:AV:35:LEU:HD21	31:AV:41:VAL:CG2	2.45	0.43
32:AW:49:LYS:HE3	32:AW:61:VAL:HG21	2.01	0.43
32:AW:70:GLN:OE1	32:AW:78:VAL:HG21	2.18	0.43
32:AW:194:VAL:HG21	32:AW:240:LEU:HD13	2.00	0.43
33:AX:59:SER:HA	33:AX:60:PRO:HD2	1.87	0.43
34:AY:31:LYS:C	34:AY:34:GLN:HG2	2.41	0.43
34:AY:152:ASP:CB	34:AY:153:PRO:HD2	2.39	0.43
4:B4:28:ARG:H	4:B4:28:ARG:HG2	1.57	0.43
6:B6:32:ASP:HB3	6:B6:41:ILE:HG23	2.00	0.43
7:B7:3:HIS:CD2	10:BA:1204:U:O4'	2.72	0.43
7:B7:14:LYS:C	7:B7:16:LEU:N	2.73	0.43
7:B7:100:ILE:HG21	12:BC:58:PRO:HB2	2.00	0.43
8:B8:77:GLY:O	8:B8:78:SER:C	2.60	0.43
10:BA:46:A:H4'	10:BA:47:C:C5'	2.48	0.43
10:BA:230:A:H2'	10:BA:231:U:O4'	2.19	0.43
10:BA:306:A:C1'	10:BA:344:A:H61	2.32	0.43
10:BA:424:A:C4	10:BA:425:A:C8	3.07	0.43
10:BA:658:C:C2	10:BA:659:G:C8	3.06	0.43
10:BA:736:A:OP2	32:BW:189:ASN:HB2	2.19	0.43
10:BA:888:C:H5'	10:BA:888:C:C6	2.53	0.43
10:BA:972:G:C2'	10:BA:973:A:H5'	2.49	0.43
10:BA:981:A:O2'	10:BA:982:U:H5"	2.19	0.43
10:BA:1259:A:N6	10:BA:1301:A:C5'	2.82	0.43
10:BA:1430:C:O2'	10:BA:1431:A:O5'	2.36	0.43
10:BA:1529:U:OP1	10:BA:1529:U:C4'	2.67	0.43
10:BA:1560:G:O2'	10:BA:1561:U:H5'	2.18	0.43
11:BB:16:SER:HB2	11:BB:169:MET:HE2	2.01	0.43
11:BB:38:VAL:C	11:BB:40:GLY:H	2.26	0.43
11:BB:38:VAL:C	11:BB:40:GLY:N	2.75	0.43
11:BB:56:ALA:CB	11:BB:157:ILE:HD11	2.48	0.43
12:BC:227:ILE:HG22	12:BC:228:ARG:N	2.33	0.43
15:BF:44:TYR:O	15:BF:45:GLU:C	2.62	0.43
16:BG:152:GLY:O	16:BG:155:GLU:N	2.51	0.43
18:BI:11:THR:CG2	18:BI:86:ALA:O	2.65	0.43
19:BJ:117:THR:HG22	19:BJ:118:ALA:H	1.84	0.43
21:BL:124:VAL:HG12	21:BL:124:VAL:O	2.18	0.43
22:BM:119:ILE:CG2	28:BS:124:PHE:CE2	3.00	0.43
27:BR:233:LYS:NZ	31:BV:24:LEU:O	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BR:241:ASP:C	27:BR:243:LEU:H	2.26	0.43
28:BS:31:GLU:H	28:BS:31:GLU:HG2	1.58	0.43
31:BV:83:ASP:C	31:BV:84:TYR:CD1	2.97	0.43
2:A2:174:ALA:HB1	2:A2:189:TYR:O	2.19	0.43
3:A3:103:LYS:CG	3:A3:113:ARG:HH12	2.24	0.43
3:A3:117:ARG:HH22	10:AA:834:A:H2'	1.84	0.43
3:A3:131:LEU:H	3:A3:131:LEU:CD2	2.30	0.43
3:A3:160:ARG:O	3:A3:164:GLU:HB2	2.18	0.43
4:A4:60:SER:OG	4:A4:94:VAL:CB	2.66	0.43
5:A5:59:PHE:CZ	20:AK:128:ARG:CZ	3.01	0.43
6:A6:22:LEU:O	6:A6:23:ILE:C	2.61	0.43
7:A7:32:HIS:HD2	7:A7:35:THR:OG1	2.02	0.43
7:A7:54:PHE:HB3	7:A7:72:GLY:CA	2.48	0.43
9:A9:123:ILE:HD11	9:A9:136:LYS:HD2	2.00	0.43
10:AA:101:A:H2'	10:AA:102:A:H8	1.84	0.43
10:AA:154:G:O2'	34:AY:95:LYS:HE2	2.18	0.43
10:AA:311:U:C4'	10:AA:312:C:O4'	2.66	0.43
10:AA:321:U:H5'	10:AA:322:G:OP2	2.19	0.43
10:AA:444:A:O5'	10:AA:445:U:H5	2.01	0.43
10:AA:589:G:C6	10:AA:590:C:C4	3.06	0.43
10:AA:1018:G:C2'	10:AA:1019:G:H5'	2.49	0.43
10:AA:1072:G:H5'	21:AL:7:ARG:NH2	2.34	0.43
10:AA:1095:G:C2	10:AA:1099:G:C6	3.07	0.43
10:AA:1155:A:C6	10:AA:1156:A:C6	3.07	0.43
10:AA:1278:C:O2'	10:AA:1279:U:P	2.77	0.43
10:AA:1402:C:O2	10:AA:1402:C:C2'	2.67	0.43
10:AA:1416:G:O2'	10:AA:1417:A:OP2	2.35	0.43
10:AA:1618:C:H2'	10:AA:1619:U:C6	2.53	0.43
12:AC:15:VAL:HG13	12:AC:16:ALA:N	2.33	0.43
12:AC:129:VAL:HG12	12:AC:134:ALA:CB	2.49	0.43
13:AD:69:ARG:NH2	13:AD:92:LYS:NZ	2.66	0.43
13:AD:71:PHE:CE1	32:AW:254:ARG:HD3	2.54	0.43
16:AG:61:CYS:SG	16:AG:65:GLU:HB3	2.59	0.43
17:AH:14:LEU:HD12	17:AH:25:VAL:HG21	2.01	0.43
18:AI:58:GLY:C	18:AI:60:GLN:N	2.74	0.43
22:AM:45:ILE:CD1	22:AM:85:LEU:HD13	2.49	0.43
26:AQ:7:ARG:O	26:AQ:8:ALA:C	2.61	0.43
26:AQ:73:LEU:HD12	26:AQ:120:ASP:O	2.18	0.43
27:AR:114:PHE:H	27:AR:114:PHE:HD1	1.66	0.43
27:AR:183:PHE:CD1	27:AR:183:PHE:O	2.72	0.43
27:AR:211:ALA:HB1	27:AR:212:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AX:13:LYS:O	33:AX:17:GLN:HG3	2.18	0.43
35:AZ:31:LYS:NZ	35:AZ:36:ASN:HD21	2.16	0.43
1:B1:42:ILE:H	1:B1:63:GLU:CG	2.17	0.43
1:B1:50:ARG:N	1:B1:53:ASP:OD2	2.48	0.43
1:B1:62:ARG:NH1	16:BG:133:ALA:HB3	2.33	0.43
3:B3:13:THR:O	3:B3:17:GLU:HG3	2.18	0.43
3:B3:63:ILE:HD11	3:B3:94:PHE:CE2	2.53	0.43
4:B4:153:LYS:O	4:B4:154:GLN:C	2.61	0.43
7:B7:88:ILE:O	7:B7:89:PRO:C	2.61	0.43
7:B7:89:PRO:O	7:B7:90:LYS:C	2.60	0.43
10:BA:65:C:C6	10:BA:65:C:H3'	2.54	0.43
10:BA:98:U:C6	10:BA:98:U:C3'	3.02	0.43
10:BA:143:C:H2'	10:BA:144:C:C6	2.54	0.43
10:BA:554:U:H2'	10:BA:555:G:C8	2.53	0.43
10:BA:730:A:C2	10:BA:731:C:C2	3.06	0.43
10:BA:867:U:C6	10:BA:867:U:H5'	2.53	0.43
10:BA:1000:U:H4'	10:BA:1097:A:H61	1.83	0.43
10:BA:1125:A:N6	10:BA:1126:C:N4	2.66	0.43
10:BA:1224:C:H2'	10:BA:1225:U:H6	1.84	0.43
10:BA:1262:U:O4	10:BA:1277:U:C5	2.72	0.43
10:BA:1552:U:H2'	10:BA:1553:C:H5'	2.00	0.43
10:BA:1574:C:O5'	10:BA:1574:C:H6	2.01	0.43
11:BB:122:ASP:HB3	11:BB:125:SER:HB2	2.00	0.43
11:BB:187:LYS:C	11:BB:187:LYS:HD2	2.43	0.43
13:BD:40:ARG:O	13:BD:43:TRP:N	2.51	0.43
13:BD:136:VAL:HA	13:BD:155:SER:O	2.18	0.43
20:BK:43:HIS:CE1	20:BK:52:THR:HG23	2.52	0.43
20:BK:91:ASN:ND2	20:BK:125:LYS:HD2	2.32	0.43
21:BL:129:ILE:O	21:BL:130:SER:C	2.62	0.43
22:BM:18:LEU:O	22:BM:21:ASN:ND2	2.51	0.43
22:BM:61:LEU:HB3	22:BM:65:GLN:HG3	2.01	0.43
24:BO:82:CYS:SG	24:BO:82:CYS:O	2.77	0.43
24:BO:92:PHE:O	24:BO:93:LEU:C	2.62	0.43
25:BP:3:ILE:CG2	25:BP:4:VAL:H	2.30	0.43
27:BR:8:ASP:CG	27:BR:343:ASN:ND2	2.77	0.43
27:BR:47:ARG:C	27:BR:49:LYS:N	2.75	0.43
27:BR:336:PHE:N	27:BR:336:PHE:CD1	2.87	0.43
31:BV:53:PHE:CZ	31:BV:57:LEU:HD21	2.54	0.43
31:BV:98:ILE:HG23	31:BV:102:THR:CB	2.46	0.43
34:BY:213:GLU:OE1	34:BY:213:GLU:HA	2.18	0.43
5:A5:49:SER:OG	20:AK:117:ARG:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:39:GLN:O	6:A6:40:ASN:C	2.61	0.43
7:A7:35:THR:HB	7:A7:37:VAL:HG23	2.01	0.43
7:A7:35:THR:HG22	7:A7:35:THR:O	2.18	0.43
7:A7:77:LYS:HA	7:A7:84:ALA:CB	2.49	0.43
8:A8:34:LYS:HD3	8:A8:36:LYS:HB3	1.99	0.43
9:A9:129:TYR:CD1	9:A9:129:TYR:C	2.96	0.43
9:A9:130:ASP:O	9:A9:142:LYS:HG3	2.19	0.43
10:AA:41:U:H4'	10:AA:42:A:O5'	2.19	0.43
10:AA:125:U:C4	10:AA:171:U:C4	3.06	0.43
10:AA:142:A:H61	34:AY:133:LEU:HD11	1.83	0.43
10:AA:168:U:O2	10:AA:169:G:H1'	2.19	0.43
10:AA:766:G:O6	25:AP:10:ILE:N	2.49	0.43
10:AA:971:A:N6	10:AA:990:U:C5	2.87	0.43
10:AA:979:A:C2	15:AF:30:LYS:NZ	2.75	0.43
10:AA:985:C:C2	10:AA:986:G:C8	3.07	0.43
10:AA:1063:A:O2'	10:AA:1064:A:P	2.76	0.43
10:AA:1311:C:H4'	10:AA:1312:U:OP2	2.18	0.43
10:AA:1345:A:C8	10:AA:1345:A:H5'	2.54	0.43
10:AA:1493:A:H2'	10:AA:1494:U:OP2	2.19	0.43
10:AA:1583:A:O2'	10:AA:1584:U:C5'	2.66	0.43
11:AB:2:ALA:HB3	11:AB:6:LYS:CD	2.49	0.43
11:AB:5:ARG:HH21	11:AB:176:ARG:HE	1.66	0.43
11:AB:134:SER:CB	11:AB:152:TYR:CD2	3.01	0.43
13:AD:110:GLN:HG3	13:AD:126:ARG:CZ	2.48	0.43
14:AE:45:LEU:O	14:AE:48:ILE:HB	2.19	0.43
14:AE:169:ARG:O	14:AE:199:THR:HA	2.19	0.43
15:AF:55:LEU:O	15:AF:56:SER:CB	2.67	0.43
22:AM:41:ARG:O	22:AM:41:ARG:HG2	2.19	0.43
24:AO:123:ARG:O	24:AO:126:ARG:HB2	2.19	0.43
27:AR:93:SER:O	27:AR:100:LEU:HA	2.18	0.43
30:AU:55:TYR:O	30:AU:56:VAL:C	2.62	0.43
30:AU:121:GLU:HA	30:AU:124:LEU:HD11	2.01	0.43
32:AW:188:GLY:O	32:AW:191:ILE:CG2	2.66	0.43
1:B1:58:MET:CE	16:BG:117:ARG:HD3	2.48	0.43
2:B2:145:ARG:NH1	10:BA:181:G:O6	2.51	0.43
5:B5:12:GLN:HG3	5:B5:33:ASP:OD2	2.19	0.43
6:B6:35:CYS:SG	6:B6:36:ALA:N	2.92	0.43
9:B9:154:UNK:CA	9:B9:157:UNK:HG3	2.47	0.43
9:B9:155:UNK:HA	9:B9:158:UNK:HG3	2.00	0.43
10:BA:72:G:C4	10:BA:76:A:C4	3.06	0.43
10:BA:507:G:H2'	10:BA:508:A:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:532:G:HO2'	10:BA:533:G:P	2.42	0.43
10:BA:639:C:H2'	10:BA:640:A:C8	2.53	0.43
10:BA:713:U:H2'	10:BA:714:A:C8	2.54	0.43
10:BA:1125:A:C5	10:BA:1126:C:C5	3.07	0.43
10:BA:1183:A:H1'	28:BS:102:TYR:OH	2.19	0.43
10:BA:1292:U:O2	10:BA:1294:A:H5'	2.19	0.43
10:BA:1313:G:H4'	27:BR:101:ARG:HH22	1.83	0.43
10:BA:1430:C:O2'	10:BA:1431:A:P	2.77	0.43
10:BA:1538:U:OP1	22:BM:42:PHE:HB2	2.19	0.43
10:BA:1692:C:O2'	10:BA:1693:A:H5'	2.18	0.43
11:BB:13:LEU:HD23	11:BB:173:MET:HE1	2.01	0.43
13:BD:83:TYR:CD2	13:BD:147:MET:HG3	2.54	0.43
14:BE:70:ASP:O	14:BE:72:GLN:HG3	2.19	0.43
14:BE:239:LEU:C	14:BE:241:PHE:H	2.27	0.43
15:BF:71:ILE:HG22	15:BF:73:LEU:HD22	1.99	0.43
18:BI:112:MET:HG2	18:BI:119:LEU:HD12	1.99	0.43
27:BR:190:VAL:HG23	27:BR:219:LEU:HD22	2.00	0.43
27:BR:238:LEU:HD23	27:BR:240:TRP:CZ2	2.54	0.43
30:BU:55:TYR:HB3	30:BU:56:VAL:H	1.60	0.43
30:BU:96:LYS:HB3	30:BU:98:LYS:HE2	2.00	0.43
30:BU:97:VAL:O	30:BU:98:LYS:C	2.62	0.43
32:BW:249:THR:CG2	32:BW:251:LEU:HB2	2.48	0.43
35:BZ:34:TRP:CD1	35:BZ:82:ALA:HB1	2.49	0.43
1:A1:12:MET:SD	1:A1:30:VAL:HG21	2.59	0.43
2:A2:18:MET:CE	2:A2:19:PRO:O	2.67	0.43
2:A2:112:ILE:HD11	2:A2:174:ALA:HB3	2.00	0.43
2:A2:117:PHE:CD1	2:A2:117:PHE:N	2.87	0.43
4:A4:47:LYS:HZ1	20:AK:20:ASN:ND2	2.17	0.43
7:A7:79:LYS:HD3	7:A7:79:LYS:HA	1.80	0.43
8:A8:46:GLU:CB	22:AM:7:LYS:HE3	2.42	0.43
10:AA:14:C:C2	10:AA:15:U:C5	3.07	0.43
10:AA:58:G:C2'	10:AA:59:C:OP2	2.67	0.43
10:AA:82:A:H2'	10:AA:83:C:H6	1.84	0.43
10:AA:125:U:C4'	10:AA:126:A:C5'	2.92	0.43
10:AA:132:U:O4'	34:AY:149:LYS:NZ	2.47	0.43
10:AA:135:A:OP1	34:AY:149:LYS:HE2	2.19	0.43
10:AA:167:A:O2'	10:AA:168:U:H5'	2.19	0.43
10:AA:474:G:H2'	10:AA:475:C:C6	2.54	0.43
10:AA:967:U:H1'	20:AK:140:THR:CG2	2.49	0.43
10:AA:1453:C:O2'	10:AA:1454:A:H5'	2.19	0.43
10:AA:1558:A:N7	10:AA:1583:A:N6	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1644:C:O5'	10:AA:1644:C:H6	2.01	0.43
11:AB:31:ARG:HG3	11:AB:32:TYR:CE1	2.53	0.43
12:AC:10:LYS:NZ	19:AJ:86:LYS:NZ	2.67	0.43
12:AC:56:THR:HA	12:AC:94:ILE:HB	2.01	0.43
15:AF:44:TYR:O	15:AF:45:GLU:C	2.62	0.43
16:AG:24:ILE:CD1	16:AG:30:GLN:HA	2.48	0.43
16:AG:57:ARG:O	16:AG:58:LYS:C	2.62	0.43
16:AG:102:ASN:O	16:AG:104:LEU:N	2.52	0.43
16:AG:182:SER:O	16:AG:183:SER:HB3	2.19	0.43
17:AH:15:VAL:HG22	17:AH:72:CYS:SG	2.59	0.43
18:AI:30:LEU:H	18:AI:66:ASP:HA	1.84	0.43
22:AM:82:PRO:HD2	22:AM:85:LEU:HD12	2.01	0.43
22:AM:130:GLY:C	22:AM:131:LEU:HG	2.43	0.43
23:AN:10:PRO:C	23:AN:12:ASN:N	2.75	0.43
24:AO:143:TYR:HE1	24:AO:148:ALA:HB2	1.84	0.43
25:AP:43:ALA:HB1	25:AP:48:VAL:O	2.18	0.43
26:AQ:56:LYS:HB2	26:AQ:109:HIS:NE2	2.34	0.43
27:AR:44:SER:OG	27:AR:52:MET:HB2	2.19	0.43
27:AR:113:ARG:NH1	27:AR:113:ARG:HG2	2.34	0.43
27:AR:200:ASN:O	27:AR:201:THR:C	2.62	0.43
27:AR:233:LYS:NZ	31:AV:24:LEU:O	2.51	0.43
27:AR:256:SER:OG	27:AR:274:THR:OG1	2.30	0.43
28:AS:76:GLU:C	28:AS:78:PRO:HD3	2.44	0.43
29:AT:44:SER:O	29:AT:45:VAL:HB	2.19	0.43
31:AV:64:GLY:N	31:AV:65:PRO:HD2	2.34	0.43
34:AY:167:THR:C	34:AY:169:LYS:H	2.26	0.43
1:B1:55:LEU:HD12	1:B1:55:LEU:HA	1.74	0.43
2:B2:84:THR:HB	2:B2:112:ILE:CG2	2.49	0.43
3:B3:13:THR:HG22	3:B3:14:LYS:N	2.34	0.43
4:B4:72:LEU:HD11	4:B4:195:ILE:HG21	2.01	0.43
4:B4:122:THR:OG1	4:B4:161:TYR:HA	2.19	0.43
4:B4:209:ASN:HA	10:BA:1035:A:H4'	2.00	0.43
5:B5:10:ARG:NH1	5:B5:12:GLN:NE2	2.67	0.43
8:B8:60:VAL:HG12	8:B8:68:THR:HB	1.99	0.43
10:BA:65:C:O2'	10:BA:66:A:OP1	2.27	0.43
10:BA:378:A:O2'	10:BA:379:A:P	2.77	0.43
10:BA:503:A:P	13:BD:174:ARG:HH21	2.41	0.43
10:BA:877:G:N2	10:BA:878:A:N3	2.66	0.43
10:BA:880:G:C4	10:BA:881:U:H5	2.36	0.43
10:BA:892:G:OP1	10:BA:892:G:O4'	2.36	0.43
10:BA:1058:A:H5"	14:BE:164:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1095:G:C2	10:BA:1099:G:C6	3.06	0.43
10:BA:1165:A:O2'	10:BA:1166:A:OP1	2.34	0.43
10:BA:1199:G:O2'	10:BA:1200:G:P	2.76	0.43
10:BA:1259:A:H4'	10:BA:1260:G:O5'	2.17	0.43
10:BA:1370:U:H2'	10:BA:1371:A:C5'	2.25	0.43
10:BA:1371:A:O2'	10:BA:1372:A:H5'	2.19	0.43
10:BA:1402:C:O2	10:BA:1402:C:C2'	2.66	0.43
10:BA:1496:A:H62	10:BA:1497:A:N6	2.17	0.43
10:BA:1603:A:N6	10:BA:1716:A:O2'	2.52	0.43
11:BB:64:GLN:HG2	14:BE:245:SER:HB3	2.00	0.43
15:BF:83:GLN:O	15:BF:87:GLU:HG3	2.18	0.43
16:BG:182:SER:O	16:BG:183:SER:HB3	2.19	0.43
17:BH:106:THR:HG23	17:BH:122:GLY:C	2.43	0.43
18:BI:43:PRO:O	18:BI:44:GLN:C	2.62	0.43
20:BK:42:ILE:HD11	20:BK:115:ALA:CB	2.48	0.43
21:BL:17:ARG:NH2	21:BL:20:LYS:HB3	2.34	0.43
22:BM:36:ARG:HB2	22:BM:102:SER:HA	2.00	0.43
22:BM:69:ILE:O	22:BM:73:ILE:HG13	2.19	0.43
24:BO:134:ASN:O	24:BO:136:LYS:HG3	2.19	0.43
27:BR:105:LEU:H	27:BR:105:LEU:HG	1.66	0.43
27:BR:150:GLU:O	27:BR:151:CYS:C	2.62	0.43
27:BR:183:PHE:CE2	27:BR:225:GLY:O	2.71	0.43
27:BR:287:SER:O	27:BR:288:LYS:HD3	2.19	0.43
29:BT:10:VAL:HG22	29:BT:69:TYR:CE2	2.54	0.43
30:BU:97:VAL:O	30:BU:97:VAL:HG13	2.18	0.43
31:BV:72:LYS:O	31:BV:73:VAL:C	2.61	0.43
32:BW:178:GLU:O	32:BW:179:SER:C	2.61	0.43
32:BW:255:LYS:HA	32:BW:260:TYR:H	1.84	0.43
35:BZ:89:GLU:C	35:BZ:91:GLY:H	2.26	0.43
2:A2:2:GLY:N	10:AA:384:C:P	2.91	0.43
2:A2:109:ILE:HG22	2:A2:191:LEU:HD11	2.01	0.43
3:A3:103:LYS:CA	3:A3:113:ARG:HH12	2.27	0.43
3:A3:179:THR:CG2	10:AA:636:G:H1'	2.49	0.43
4:A4:72:LEU:HD11	4:A4:195:ILE:HG21	2.01	0.43
6:A6:28:SER:HB2	6:A6:45:PHE:CE1	2.54	0.43
8:A8:73:LEU:HD23	8:A8:73:LEU:N	2.34	0.43
10:AA:16:G:C2	10:AA:17:C:C4	3.07	0.43
10:AA:26:U:C2'	10:AA:27:A:C5'	2.89	0.43
10:AA:44:U:H5'	10:AA:44:U:H6	1.83	0.43
10:AA:301:C:H2'	10:AA:302:U:H5'	2.01	0.43
10:AA:472:A:C4	10:AA:502:G:N2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:537:A:O2'	10:AA:538:A:P	2.74	0.43
10:AA:580:G:H2'	10:AA:581:C:O4'	2.18	0.43
10:AA:642:G:C3'	10:AA:643:U:H5'	2.49	0.43
10:AA:840:A:H4'	17:AH:57:ARG:CG	2.49	0.43
10:AA:847:A:H2'	10:AA:848:C:O4'	2.19	0.43
10:AA:887:U:C5'	10:AA:887:U:C6	3.02	0.43
10:AA:932:G:C5'	24:AO:7:LYS:HZ3	2.28	0.43
10:AA:956:A:N7	10:AA:957:A:C5	2.87	0.43
10:AA:981:A:O2'	10:AA:982:U:C5'	2.67	0.43
10:AA:1036:U:H5"	10:AA:1037:G:OP2	2.18	0.43
10:AA:1422:C:H5"	23:AN:8:THR:HB	1.99	0.43
11:AB:13:LEU:CD2	11:AB:173:MET:HE1	2.48	0.43
12:AC:126:ILE:O	12:AC:130:ILE:HG13	2.19	0.43
12:AC:173:VAL:HA	12:AC:189:VAL:O	2.18	0.43
13:AD:66:ASP:O	13:AD:67:PRO:C	2.61	0.43
14:AE:115:GLY:HA3	14:AE:133:ALA:HB2	2.01	0.43
14:AE:213:LYS:O	14:AE:217:TYR:HD1	2.01	0.43
15:AF:48:MET:HE1	15:AF:71:ILE:HG23	2.00	0.43
17:AH:106:THR:HG23	17:AH:122:GLY:C	2.44	0.43
18:AI:29:GLY:CA	18:AI:65:LEU:O	2.67	0.43
21:AL:19:ARG:HG3	26:AQ:96:TYR:OH	2.19	0.43
26:AQ:35:LYS:CG	26:AQ:36:ASN:N	2.82	0.43
27:AR:84:LEU:HD22	27:AR:91:ALA:HB2	1.99	0.43
28:AS:60:LYS:NZ	28:AS:64:LYS:CE	2.82	0.43
29:AT:56:TRP:HE1	29:AT:103:ILE:CD1	2.32	0.43
30:AU:12:LEU:HD23	30:AU:82:TYR:HE2	1.84	0.43
32:AW:87:GLY:N	32:AW:90:ASP:OD2	2.47	0.43
32:AW:213:LYS:HA	32:AW:218:ASN:O	2.19	0.43
33:AX:39:ILE:HA	33:AX:42:ASN:HD22	1.83	0.43
34:AY:153:PRO:HG2	34:AY:154:ILE:HG13	2.01	0.43
2:B2:80:ILE:HD13	2:B2:120:TRP:CE3	2.53	0.43
2:B2:192:GLU:CA	2:B2:196:LEU:HB2	2.49	0.43
3:B3:13:THR:HB	3:B3:16:GLU:HG3	2.01	0.43
3:B3:141:ILE:HG22	3:B3:142:ARG:N	2.33	0.43
4:B4:25:PRO:C	4:B4:27:SER:H	2.26	0.43
6:B6:22:LEU:O	6:B6:23:ILE:C	2.62	0.43
6:B6:68:LYS:CD	10:BA:1027:U:OP1	2.66	0.43
7:B7:40:LEU:O	7:B7:40:LEU:HD23	2.19	0.43
7:B7:61:TRP:CE2	23:BN:22:VAL:HG13	2.54	0.43
7:B7:82:ILE:HG13	30:BU:17:LYS:NZ	2.34	0.43
8:B8:68:THR:HA	8:B8:71:GLU:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:160:UNK:O	9:B9:164:UNK:HG3	2.18	0.43
10:BA:301:C:C2'	10:BA:302:U:H5'	2.49	0.43
10:BA:465:A:H2'	10:BA:466:A:O4'	2.19	0.43
10:BA:618:G:H2'	10:BA:619:C:O4'	2.19	0.43
10:BA:964:G:H2'	10:BA:965:G:O4'	2.19	0.43
10:BA:972:G:O2'	10:BA:973:A:H5'	2.19	0.43
10:BA:977:U:H2'	10:BA:978:C:O4'	2.18	0.43
10:BA:1069:U:O2	14:BE:169:ARG:HD2	2.19	0.43
10:BA:1155:A:H5'	10:BA:1156:A:OP2	2.19	0.43
10:BA:1511:A:H4'	10:BA:1512:G:C5'	2.48	0.43
11:BB:32:TYR:H	11:BB:32:TYR:HD1	1.66	0.43
11:BB:189:GLU:HG3	11:BB:190:GLU:N	2.33	0.43
11:BB:194:MET:HE2	31:BV:89:SER:HB3	2.01	0.43
12:BC:15:VAL:CG2	23:BN:35:MET:HE2	2.49	0.43
12:BC:207:THR:CG2	12:BC:208:PRO:HD2	2.49	0.43
13:BD:161:THR:C	13:BD:163:PRO:HD2	2.44	0.43
14:BE:249:HIS:O	14:BE:253:GLN:OE1	2.37	0.43
16:BG:102:ASN:O	16:BG:104:LEU:N	2.52	0.43
17:BH:126:LEU:HD23	17:BH:126:LEU:HA	1.72	0.43
21:BL:21:ASP:C	21:BL:23:ARG:N	2.77	0.43
22:BM:80:GLY:O	22:BM:81:ILE:O	2.36	0.43
22:BM:94:ASP:OD2	28:BS:16:LYS:HA	2.19	0.43
24:BO:148:ALA:O	24:BO:152:VAL:HG23	2.19	0.43
25:BP:49:ASP:OD2	25:BP:149:LYS:HB2	2.19	0.43
27:BR:181:GLN:HG3	27:BR:183:PHE:CE2	2.53	0.43
27:BR:224:ASN:HB3	27:BR:226:LYS:CG	2.42	0.43
27:BR:264:ASN:C	27:BR:266:LYS:N	2.76	0.43
27:BR:297:GLU:H	27:BR:298:PRO:HD3	1.83	0.43
30:BU:84:GLY:HA2	30:BU:86:PHE:CE2	2.53	0.43
32:BW:46:VAL:HA	32:BW:50:GLU:OE1	2.19	0.43
32:BW:87:GLY:N	32:BW:90:ASP:OD2	2.45	0.43
32:BW:201:GLU:CD	32:BW:201:GLU:N	2.77	0.43
34:BY:180:GLN:O	34:BY:181:ARG:CB	2.58	0.43
2:A2:37:LYS:HE2	2:A2:101:THR:HG22	1.99	0.42
2:A2:147:VAL:O	2:A2:147:VAL:HG12	2.19	0.42
2:A2:149:LYS:O	2:A2:153:ARG:HB2	2.19	0.42
2:A2:198:PHE:CD1	26:AQ:5:ILE:HG12	2.54	0.42
3:A3:126:LEU:O	3:A3:130:LEU:HG	2.19	0.42
3:A3:135:THR:HG23	3:A3:136:LEU:HD23	2.01	0.42
4:A4:163:LYS:HB2	4:A4:166:GLN:HE21	1.84	0.42
7:A7:54:PHE:HD2	7:A7:72:GLY:HA2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:A9:143:ILE:HB	9:A9:146:UNK:CB	2.29	0.42
10:AA:156:U:H3'	10:AA:157:G:C8	2.54	0.42
10:AA:336:U:H4'	10:AA:337:G:O5'	2.18	0.42
10:AA:385:C:N4	10:AA:390:A:H62	2.17	0.42
10:AA:472:A:O2'	10:AA:473:A:C5'	2.67	0.42
10:AA:622:G:H5'	24:AO:122:SER:HG	1.84	0.42
10:AA:840:A:OP2	24:AO:66:ARG:NH2	2.46	0.42
10:AA:864:U:C2'	10:AA:865:A:H5'	2.49	0.42
10:AA:980:G:N1	10:AA:981:A:N6	2.67	0.42
10:AA:1139:G:H1	10:AA:1550:U:H3	1.66	0.42
10:AA:1142:G:C2	10:AA:1143:A:C8	3.07	0.42
10:AA:1188:A:H4'	10:AA:1189:A:O5'	2.19	0.42
10:AA:1253:G:O2'	10:AA:1254:U:H5'	2.19	0.42
10:AA:1259:A:N6	10:AA:1301:A:C5'	2.79	0.42
10:AA:1376:A:O2'	10:AA:1377:A:H5'	2.19	0.42
10:AA:1552:U:H2'	10:AA:1553:C:H5'	2.01	0.42
10:AA:1731:G:C3'	10:AA:1732:U:C5'	2.95	0.42
10:AA:1732:U:H2'	10:AA:1734:A:OP2	2.19	0.42
12:AC:222:THR:HG22	12:AC:223:ASP:N	2.34	0.42
13:AD:60:LEU:HD21	13:AD:93:LEU:HB3	2.00	0.42
16:AG:34:ALA:O	16:AG:35:CYS:C	2.62	0.42
16:AG:183:SER:O	16:AG:184:TRP:C	2.60	0.42
17:AH:30:VAL:O	17:AH:59:LYS:HE2	2.19	0.42
17:AH:102:VAL:CB	17:AH:113:HIS:HB2	2.41	0.42
20:AK:110:PRO:HG2	20:AK:111:GLY:H	1.83	0.42
22:AM:16:ARG:NH1	22:AM:19:ASN:O	2.51	0.42
22:AM:82:PRO:HD3	29:AT:40:TRP:CH2	2.53	0.42
23:AN:6:TRP:O	23:AN:7:ARG:C	2.62	0.42
23:AN:22:VAL:HB	23:AN:23:CYS:H	1.65	0.42
25:AP:78:GLN:CG	25:AP:143:LEU:HD22	2.49	0.42
27:AR:126:PHE:O	27:AR:170:TYR:HD2	2.02	0.42
27:AR:179:LYS:O	27:AR:180:VAL:O	2.37	0.42
32:AW:105:TYR:CD2	32:AW:191:ILE:CD1	3.00	0.42
32:AW:224:LEU:C	32:AW:226:ASN:N	2.77	0.42
35:AZ:67:VAL:HG21	35:AZ:83:LEU:CD1	2.49	0.42
35:AZ:83:LEU:C	35:AZ:85:ASN:N	2.75	0.42
1:B1:38:GLY:O	1:B1:39:ARG:C	2.62	0.42
2:B2:114:SER:HA	2:B2:172:ILE:HD11	2.01	0.42
3:B3:52:LYS:CB	3:B3:56:LYS:HE2	2.46	0.42
7:B7:31:HIS:O	7:B7:32:HIS:C	2.62	0.42
7:B7:55:LEU:HD12	7:B7:55:LEU:HA	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:77:LYS:HA	7:B7:84:ALA:CB	2.48	0.42
7:B7:89:PRO:O	7:B7:92:PHE:N	2.37	0.42
7:B7:99:PHE:CE1	12:BC:69:HIS:NE2	2.87	0.42
9:B9:91:VAL:O	9:B9:92:HIS:C	2.62	0.42
9:B9:143:ILE:HB	9:B9:146:UNK:CB	2.30	0.42
10:BA:93:C:O2'	10:BA:94:U:H5'	2.19	0.42
10:BA:318:U:H4'	26:BQ:11:LYS:HZ2	1.82	0.42
10:BA:476:U:H2'	10:BA:477:G:H8	1.83	0.42
10:BA:576:U:O2'	10:BA:577:C:H5'	2.20	0.42
10:BA:682:C:H2'	10:BA:683:A:C8	2.53	0.42
10:BA:787:A:H1'	17:BH:106:THR:O	2.19	0.42
10:BA:873:G:H5"	20:BK:51:GLU:OE2	2.19	0.42
10:BA:970:A:H2	10:BA:1730:G:C4'	2.31	0.42
10:BA:1031:A:H2'	10:BA:1032:U:O4'	2.18	0.42
10:BA:1086:G:O2'	10:BA:1087:U:P	2.77	0.42
10:BA:1170:G:C3'	10:BA:1171:G:H5'	2.49	0.42
10:BA:1212:U:C5'	10:BA:1213:G:OP2	2.62	0.42
10:BA:1263:G:N2	10:BA:1296:G:C2	2.87	0.42
10:BA:1312:U:O2'	10:BA:1313:G:OP2	2.31	0.42
10:BA:1474:G:H5"	29:BT:102:LYS:HG2	2.00	0.42
10:BA:1734:A:H2'	10:BA:1735:A:C8	2.54	0.42
11:BB:1:MET:HE1	31:BV:111:TYR:CA	2.45	0.42
14:BE:81:VAL:O	14:BE:82:LEU:HD23	2.19	0.42
17:BH:55:ASP:OD1	17:BH:57:ARG:HB2	2.19	0.42
17:BH:120:HIS:O	17:BH:120:HIS:CD2	2.72	0.42
18:BI:55:LEU:N	18:BI:55:LEU:HD23	2.33	0.42
18:BI:61:LYS:HD3	18:BI:61:LYS:N	2.34	0.42
19:BJ:55:ARG:HB3	19:BJ:87:ARG:NH1	2.34	0.42
20:BK:61:LYS:HA	20:BK:61:LYS:HD3	1.79	0.42
21:BL:44:GLY:O	21:BL:45:ALA:O	2.36	0.42
22:BM:29:PRO:HA	22:BM:43:ALA:HB1	2.00	0.42
24:BO:69:THR:HB	24:BO:71:GLN:HB2	2.01	0.42
26:BQ:68:LYS:CD	26:BQ:126:GLN:HG2	2.40	0.42
26:BQ:86:ARG:HD2	26:BQ:103:HIS:CD2	2.53	0.42
29:BT:45:VAL:HG21	29:BT:83:PHE:CZ	2.54	0.42
29:BT:75:GLY:C	29:BT:79:LEU:HD12	2.43	0.42
31:BV:55:THR:O	31:BV:58:MET:HB2	2.19	0.42
31:BV:103:LYS:CD	31:BV:118:VAL:HG21	2.49	0.42
32:BW:72:VAL:CG2	32:BW:79:ARG:O	2.67	0.42
34:BY:19:ASP:O	34:BY:20:ASP:C	2.61	0.42
34:BY:76:LEU:HA	34:BY:93:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:91:TYR:HD2	2:A2:109:ILE:HD11	1.83	0.42
3:A3:112:GLN:O	3:A3:114:PRO:HD3	2.19	0.42
4:A4:153:LYS:O	4:A4:154:GLN:C	2.62	0.42
5:A5:73:LEU:HD12	5:A5:73:LEU:HA	1.83	0.42
6:A6:35:CYS:HB3	6:A6:38:CYS:SG	2.59	0.42
7:A7:10:ILE:CG2	7:A7:14:LYS:HE3	2.44	0.42
8:A8:31:THR:HG23	15:BF:42:PHE:HA	1.99	0.42
10:AA:3:C:H1'	14:AE:181:ALA:C	2.44	0.42
10:AA:24:C:H2'	10:AA:25:A:H8	1.84	0.42
10:AA:62:G:H4'	10:AA:164:U:C5	2.53	0.42
10:AA:64:U:C5	10:AA:79:G:N1	2.87	0.42
10:AA:72:G:O6	10:AA:76:A:O4'	2.36	0.42
10:AA:301:C:H2'	10:AA:301:C:O2	2.19	0.42
10:AA:326:U:O2'	26:AQ:129:PRO:HG2	2.18	0.42
10:AA:491:U:H2'	10:AA:492:C:O4'	2.19	0.42
10:AA:570:G:O6	21:AL:64:ASN:HA	2.19	0.42
10:AA:804:A:O2'	10:AA:805:G:H5'	2.19	0.42
10:AA:880:G:C4	10:AA:881:U:H5	2.36	0.42
10:AA:1033:A:N1	10:AA:1034:A:C2	2.88	0.42
10:AA:1156:A:C2	10:AA:1426:G:O4'	2.72	0.42
10:AA:1199:G:H5'	10:AA:1201:G:O4'	2.20	0.42
10:AA:1223:U:O2'	10:AA:1224:C:O4'	2.34	0.42
10:AA:1241:U:H4'	10:AA:1242:G:C5'	2.49	0.42
10:AA:1532:U:H5	28:AS:45:LYS:NZ	2.18	0.42
10:AA:1623:A:C2'	10:AA:1624:G:OP2	2.67	0.42
12:AC:130:ILE:HD11	12:AC:157:GLN:HB3	2.01	0.42
13:AD:105:MET:HE2	13:AD:108:ARG:CD	2.49	0.42
15:AF:19:ILE:HG12	15:AF:37:GLY:C	2.45	0.42
15:AF:44:TYR:HB2	15:AF:61:ILE:HD13	2.01	0.42
16:AG:87:VAL:HG11	16:AG:164:ILE:CG2	2.49	0.42
18:AI:138:SER:O	18:AI:139:LYS:HG3	2.18	0.42
22:AM:11:PHE:HD1	22:AM:60:LEU:HD23	1.84	0.42
22:AM:18:LEU:O	22:AM:21:ASN:ND2	2.52	0.42
24:AO:30:MET:HE3	24:AO:34:THR:HG22	2.00	0.42
25:AP:2:THR:HG22	25:AP:3:ILE:HD13	2.00	0.42
25:AP:74:TYR:CD2	25:AP:80:LEU:HA	2.54	0.42
26:AQ:41:PHE:CE2	26:AQ:139:LEU:HB2	2.54	0.42
26:AQ:87:ARG:CD	26:AQ:104:ARG:CZ	2.97	0.42
26:AQ:93:VAL:O	26:AQ:94:ARG:C	2.61	0.42
27:AR:31:PHE:N	27:AR:31:PHE:CD1	2.87	0.42
29:AT:61:THR:O	29:AT:62:ALA:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:37:LYS:HB3	32:AW:37:LYS:HZ3	1.84	0.42
32:AW:88:LEU:HD11	32:AW:184:TYR:CE2	2.39	0.42
1:B1:42:ILE:HG13	1:B1:63:GLU:OE2	2.19	0.42
2:B2:38:LEU:HD21	2:B2:104:LEU:CD1	2.44	0.42
2:B2:154:THR:O	2:B2:154:THR:CG2	2.67	0.42
8:B8:63:VAL:HG13	16:BG:97:LEU:HD12	2.01	0.42
10:BA:234:G:H2'	10:BA:235:A:O4'	2.19	0.42
10:BA:435:C:C2'	10:BA:436:C:H5'	2.49	0.42
10:BA:604:G:C6	10:BA:608:C:C2	3.07	0.42
10:BA:690:A:O2'	10:BA:691:A:H5'	2.18	0.42
10:BA:787:A:C2'	17:BH:105:THR:HG23	2.49	0.42
10:BA:887:U:H2'	10:BA:888:C:H5"	2.00	0.42
10:BA:962:G:C4	10:BA:963:G:C8	3.07	0.42
10:BA:1173:G:C2'	10:BA:1174:A:OP1	2.67	0.42
10:BA:1204:U:O5'	10:BA:1204:U:H6	2.02	0.42
10:BA:1286:U:C2'	10:BA:1287:U:OP2	2.67	0.42
10:BA:1717:C:C2'	10:BA:1718:A:C5'	2.97	0.42
11:BB:26:ASN:ND2	11:BB:28:GLN:HB2	2.35	0.42
11:BB:45:ASN:ND2	31:BV:109:LEU:HD13	2.31	0.42
11:BB:149:PRO:C	11:BB:151:ALA:N	2.77	0.42
15:BF:58:ASN:HB3	15:BF:74:ASN:HD21	1.82	0.42
16:BG:44:VAL:CG2	18:BI:48:ALA:HB3	2.49	0.42
16:BG:102:ASN:O	16:BG:105:GLU:N	2.46	0.42
18:BI:31:LEU:HD23	18:BI:31:LEU:HA	1.63	0.42
20:BK:56:VAL:CG1	20:BK:77:ALA:HA	2.45	0.42
20:BK:67:GLU:C	20:BK:69:SER:H	2.26	0.42
24:BO:90:LEU:O	24:BO:94:ILE:HG13	2.19	0.42
26:BQ:32:ARG:HG2	26:BQ:33:TYR:N	2.33	0.42
27:BR:38:ASP:OD2	27:BR:318:ASN:ND2	2.52	0.42
27:BR:113:ARG:HG2	27:BR:113:ARG:NH1	2.33	0.42
27:BR:241:ASP:CG	27:BR:243:LEU:H	2.28	0.42
29:BT:29:ALA:O	29:BT:31:LYS:N	2.52	0.42
29:BT:45:VAL:CG1	29:BT:97:GLN:HG2	2.49	0.42
29:BT:73:HIS:HA	29:BT:129:SER:OG	2.19	0.42
30:BU:116:GLU:O	30:BU:120:ILE:HG13	2.19	0.42
31:BV:17:ILE:HA	31:BV:24:LEU:HD11	2.01	0.42
32:BW:34:GLY:HA3	32:BW:35:PRO:HD2	1.91	0.42
32:BW:210:CYS:SG	32:BW:227:ILE:HD11	2.59	0.42
35:BZ:18:ASN:O	35:BZ:21:LYS:N	2.52	0.42
1:A1:31:LEU:O	1:A1:32:ILE:HG13	2.19	0.42
3:A3:84:LEU:O	3:A3:88:LEU:HB2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:194:THR:O	3:A3:194:THR:HG22	2.19	0.42
7:A7:61:TRP:NE1	12:AC:26:SER:CB	2.74	0.42
10:AA:71:U:H2'	10:AA:72:G:OP1	2.19	0.42
10:AA:235:A:C2	10:AA:814:A:C4	3.07	0.42
10:AA:258:A:O2'	10:AA:259:U:C5'	2.67	0.42
10:AA:539:U:H2'	10:AA:540:U:O4'	2.18	0.42
10:AA:603:U:O2	21:AL:23:ARG:HA	2.19	0.42
10:AA:616:A:H4'	10:AA:616:A:OP1	2.19	0.42
10:AA:667:C:O3'	17:AH:119:ARG:CZ	2.67	0.42
10:AA:681:G:H1	10:AA:719:G:H1	1.68	0.42
10:AA:684:A:H2'	10:AA:685:A:N9	2.33	0.42
10:AA:899:U:H2'	10:AA:900:A:H8	1.83	0.42
10:AA:900:A:O2'	10:AA:901:A:H5'	2.19	0.42
10:AA:1324:U:H5'	18:AI:6:PRO:HD3	2.01	0.42
10:AA:1436:C:H2'	10:AA:1436:C:O2	2.19	0.42
10:AA:1515:A:N6	10:AA:1540:G:H1'	2.34	0.42
10:AA:1536:U:C4	10:AA:1537:C:N4	2.88	0.42
10:AA:1569:A:C4	23:AN:13:TYR:CE2	3.06	0.42
10:AA:1617:G:H22	10:AA:1708:A:H2	1.67	0.42
10:AA:1660:A:N6	10:AA:1666:G:C6	2.88	0.42
11:AB:106:ASN:OD1	11:AB:106:ASN:C	2.62	0.42
11:AB:119:ILE:N	11:AB:119:ILE:CD1	2.83	0.42
12:AC:101:ALA:O	12:AC:102:SER:C	2.62	0.42
13:AD:133:HIS:C	13:AD:134:ILE:HG13	2.44	0.42
14:AE:140:VAL:HG11	14:AE:219:LEU:HG	2.02	0.42
16:AG:99:THR:C	16:AG:101:ARG:N	2.77	0.42
18:AI:32:LYS:HG3	18:AI:35:GLY:HA2	2.02	0.42
19:AJ:18:ARG:O	19:AJ:18:ARG:CG	2.67	0.42
19:AJ:23:LEU:CD2	19:AJ:112:ILE:HG12	2.48	0.42
20:AK:27:VAL:CG1	20:AK:90:ILE:HG12	2.49	0.42
22:AM:99:GLN:O	22:AM:99:GLN:HG3	2.19	0.42
24:AO:116:ARG:HA	24:AO:116:ARG:HD3	1.70	0.42
26:AQ:130:ILE:HD12	26:AQ:134:VAL:CG1	2.49	0.42
27:AR:136:ALA:HB1	27:AR:165:VAL:HB	2.02	0.42
27:AR:238:LEU:HD23	27:AR:240:TRP:HZ2	1.84	0.42
29:AT:29:ALA:O	29:AT:31:LYS:N	2.53	0.42
30:AU:5:ASN:O	30:AU:6:GLN:C	2.62	0.42
32:AW:73:PHE:CZ	32:AW:78:VAL:HG22	2.54	0.42
34:AY:221:LYS:O	34:AY:225:ALA:HB2	2.19	0.42
1:B1:65:ARG:CG	1:B1:66:ARG:N	2.81	0.42
2:B2:52:ARG:NH1	10:BA:1646:U:O3'	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:56:VAL:HG22	10:BA:324:A:C5'	2.49	0.42
2:B2:74:SER:HB3	2:B2:81:THR:OG1	2.20	0.42
3:B3:47:GLU:HG2	3:B3:49:GLN:HE22	1.85	0.42
4:B4:163:LYS:HB2	4:B4:166:GLN:HE21	1.83	0.42
5:B5:75:TYR:N	5:B5:75:TYR:CD1	2.88	0.42
6:B6:61:LEU:HD22	6:B6:61:LEU:N	2.34	0.42
7:B7:81:GLY:HA3	30:BU:21:CYS:SG	2.59	0.42
10:BA:143:C:O5'	10:BA:143:C:H6	2.02	0.42
10:BA:272:U:O5'	10:BA:272:U:H6	2.02	0.42
10:BA:344:A:H3'	10:BA:345:C:C6	2.54	0.42
10:BA:378:A:C2'	10:BA:379:A:OP2	2.68	0.42
10:BA:631:C:O2	10:BA:838:U:H1'	2.19	0.42
10:BA:782:A:C8	10:BA:782:A:C3'	3.02	0.42
10:BA:842:U:C3'	10:BA:842:U:C6	3.02	0.42
10:BA:1072:G:H5'	21:BL:7:ARG:NH2	2.34	0.42
10:BA:1199:G:O6	30:BU:85:HIS:ND1	2.52	0.42
11:BB:68:ASP:OD1	14:BE:32:LYS:NZ	2.51	0.42
11:BB:134:SER:CB	11:BB:152:TYR:CD2	3.02	0.42
11:BB:137:ASN:HD21	14:BE:54:PRO:HD3	1.84	0.42
12:BC:202:LYS:C	12:BC:203:PHE:O	2.59	0.42
13:BD:10:LYS:O	13:BD:47:MET:HE3	2.19	0.42
13:BD:87:SER:O	13:BD:88:GLU:C	2.62	0.42
14:BE:45:LEU:HG	14:BE:49:PHE:CE2	2.55	0.42
15:BF:73:LEU:N	15:BF:73:LEU:CD2	2.78	0.42
17:BH:30:VAL:HG12	17:BH:31:SER:N	2.34	0.42
17:BH:112:THR:HG22	17:BH:113:HIS:N	2.34	0.42
25:BP:17:SER:OG	25:BP:79:TYR:CD2	2.51	0.42
26:BQ:54:ASP:HB2	26:BQ:81:ARG:NH1	2.34	0.42
27:BR:114:PHE:H	27:BR:114:PHE:HD1	1.66	0.42
27:BR:267:LEU:CD1	27:BR:267:LEU:N	2.78	0.42
28:BS:33:LEU:HD11	28:BS:59:ALA:CA	2.46	0.42
29:BT:49:LEU:HD12	29:BT:50:ALA:H	1.83	0.42
32:BW:122:LYS:HG3	32:BW:167:VAL:HG21	2.01	0.42
34:BY:1:MET:HE3	34:BY:109:LEU:HG	2.00	0.42
34:BY:86:SER:O	34:BY:87:ARG:CB	2.60	0.42
34:BY:88:ARG:O	34:BY:89:SER:C	2.61	0.42
2:A2:22:ARG:HD2	2:A2:25:ARG:NH1	2.34	0.42
2:A2:91:TYR:HD2	2:A2:109:ILE:HD12	1.84	0.42
2:A2:93:ALA:HA	26:AQ:9:TYR:HD2	1.83	0.42
2:A2:94:THR:HG23	10:AA:319:A:C2	2.53	0.42
2:A2:105:VAL:HG22	10:AA:320:G:O2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:91:ILE:CG2	3:A3:166:LYS:HD2	2.49	0.42
3:A3:178:THR:O	3:A3:179:THR:OG1	2.36	0.42
5:A5:90:CYS:SG	5:A5:93:ASP:OD2	2.73	0.42
8:A8:72:LYS:HB2	8:A8:73:LEU:CD2	2.44	0.42
10:AA:3:C:H41	13:AD:16:ARG:CB	2.31	0.42
10:AA:92:G:H21	10:AA:418:G:H5'	1.83	0.42
10:AA:106:U:OP1	10:AA:736:A:O2'	2.33	0.42
10:AA:494:A:P	10:AA:495:C:OP2	2.77	0.42
10:AA:565:G:H3'	10:AA:565:G:H8	1.85	0.42
10:AA:576:U:O2'	10:AA:577:C:H5'	2.20	0.42
10:AA:673:A:N3	10:AA:675:A:N6	2.67	0.42
10:AA:796:U:O2'	10:AA:797:A:OP1	2.26	0.42
10:AA:864:U:H2'	10:AA:865:A:H5'	2.01	0.42
10:AA:882:G:O6	10:AA:883:A:N1	2.51	0.42
10:AA:949:A:H3'	10:AA:950:G:H8	1.85	0.42
10:AA:977:U:H2'	10:AA:978:C:O4'	2.19	0.42
10:AA:1004:A:O2'	10:AA:1743:A:O4'	2.37	0.42
10:AA:1035:A:H2'	10:AA:1035:A:N3	2.35	0.42
10:AA:1158:U:OP1	10:AA:1427:C:O2'	2.23	0.42
10:AA:1532:U:H2'	10:AA:1533:G:H8	1.85	0.42
10:AA:1729:A:C2	10:AA:1739:G:C2	3.07	0.42
11:AB:187:LYS:HG3	11:AB:188:ASP:N	2.35	0.42
12:AC:9:ASN:HB2	12:AC:12:LYS:H	1.84	0.42
14:AE:83:GLN:O	14:AE:101:GLY:HA2	2.19	0.42
14:AE:181:ALA:HB2	14:AE:199:THR:HG21	2.01	0.42
14:AE:182:ALA:C	14:AE:185:PRO:HD2	2.44	0.42
16:AG:68:ILE:CG2	16:AG:84:CYS:HB3	2.49	0.42
16:AG:148:PHE:O	16:AG:151:LYS:HB3	2.19	0.42
22:AM:6:GLU:CB	22:AM:10:ASP:HB2	2.37	0.42
29:AT:18:PHE:CD1	29:AT:18:PHE:C	2.97	0.42
30:AU:20:ASN:O	30:AU:20:ASN:ND2	2.53	0.42
30:AU:29:LEU:O	30:AU:33:LEU:HG	2.19	0.42
30:AU:55:TYR:HB3	30:AU:56:VAL:H	1.60	0.42
31:AV:66:VAL:CG1	31:AV:69:ILE:HB	2.49	0.42
31:AV:102:THR:HG22	31:AV:106:LEU:HD11	2.01	0.42
34:AY:98:ARG:HD2	34:AY:99:GLY:H	1.84	0.42
2:B2:57:ARG:O	2:B2:58:GLY:C	2.61	0.42
2:B2:72:ASN:ND2	10:BA:255:C:O4'	2.50	0.42
3:B3:84:LEU:O	3:B3:88:LEU:HB2	2.19	0.42
3:B3:95:THR:HG23	3:B3:129:ASP:OD2	2.19	0.42
3:B3:135:THR:HG22	3:B3:136:LEU:HD23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:15:ARG:HD2	10:BA:914:G:O6	2.19	0.42
5:B5:97:ARG:HA	10:BA:1750:A:H1'	2.01	0.42
6:B6:53:ILE:HG22	6:B6:58:SER:HA	2.01	0.42
7:B7:12:ILE:O	7:B7:13:TYR:C	2.61	0.42
8:B8:69:VAL:O	8:B8:73:LEU:HG	2.20	0.42
9:B9:76:LYS:O	9:B9:77:LYS:HB3	2.20	0.42
9:B9:126:ALA:HA	10:BA:1224:C:C5'	2.37	0.42
10:BA:64:U:C5	10:BA:79:G:N1	2.87	0.42
10:BA:86:C:H6	10:BA:86:C:H5"	1.84	0.42
10:BA:89:A:C8	10:BA:389:G:C4	3.08	0.42
10:BA:163:A:OP1	34:BY:137:ARG:CZ	2.66	0.42
10:BA:326:U:O2'	26:BQ:129:PRO:HG2	2.20	0.42
10:BA:413:C:N4	34:BY:91:PHE:CZ	2.87	0.42
10:BA:455:C:H6	10:BA:455:C:C5'	2.23	0.42
10:BA:507:G:H2'	10:BA:508:A:C5'	2.49	0.42
10:BA:548:A:C4	13:BD:19:TYR:CE2	3.07	0.42
10:BA:681:G:N1	10:BA:719:G:N2	2.48	0.42
10:BA:689:A:H2'	10:BA:690:A:H8	1.82	0.42
10:BA:707:U:C6	10:BA:707:U:C3'	3.03	0.42
10:BA:929:A:H2'	10:BA:930:A:C5'	2.50	0.42
10:BA:1016:U:H4'	10:BA:1016:U:OP1	2.20	0.42
10:BA:1017:C:OP1	10:BA:1017:C:H4'	2.19	0.42
10:BA:1070:U:H4'	10:BA:1071:U:OP2	2.19	0.42
10:BA:1158:U:H1'	10:BA:1180:A:C8	2.54	0.42
10:BA:1453:C:C1'	18:BI:79:GLN:HE22	2.32	0.42
10:BA:1469:U:H5"	29:BT:75:GLY:HA3	2.00	0.42
10:BA:1732:U:C6	10:BA:1732:U:C4'	3.02	0.42
11:BB:106:ASN:OD1	11:BB:106:ASN:C	2.62	0.42
11:BB:121:THR:O	11:BB:143:LEU:HB2	2.20	0.42
11:BB:176:ARG:O	11:BB:180:ILE:HG13	2.19	0.42
13:BD:32:GLY:HA3	33:BX:41:TYR:CG	2.54	0.42
14:BE:85:THR:CG2	14:BE:86:PRO:N	2.82	0.42
16:BG:72:MET:O	16:BG:78:ALA:CB	2.65	0.42
18:BI:30:LEU:H	18:BI:66:ASP:HA	1.84	0.42
18:BI:44:GLN:HG3	18:BI:45:ILE:HG13	2.01	0.42
19:BJ:80:PHE:HB3	23:BN:51:PHE:HB3	2.01	0.42
22:BM:6:GLU:O	22:BM:7:LYS:O	2.37	0.42
22:BM:45:ILE:HD11	22:BM:85:LEU:HD13	2.01	0.42
22:BM:50:LEU:HD21	22:BM:72:LEU:HD12	2.01	0.42
22:BM:61:LEU:HD22	22:BM:65:GLN:HE21	1.81	0.42
22:BM:123:ARG:CG	22:BM:123:ARG:NH1	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BM:126:ARG:HG2	22:BM:133:VAL:HA	2.01	0.42
25:BP:77:GLN:O	25:BP:77:GLN:HG3	2.19	0.42
25:BP:109:LYS:O	25:BP:113:LYS:HB2	2.19	0.42
26:BQ:55:LYS:O	26:BQ:61:SER:CB	2.67	0.42
26:BQ:83:VAL:HG12	26:BQ:84:ILE:N	2.35	0.42
26:BQ:93:VAL:O	26:BQ:94:ARG:C	2.62	0.42
27:BR:153:PHE:HD2	27:BR:203:PHE:CD2	2.38	0.42
28:BS:60:LYS:CD	28:BS:64:LYS:HE3	2.49	0.42
28:BS:81:VAL:O	28:BS:99:VAL:HG13	2.19	0.42
32:BW:157:LYS:O	32:BW:160:ASP:OD2	2.36	0.42
33:BX:33:GLY:C	33:BX:35:SER:N	2.75	0.42
34:BY:23:LYS:HA	34:BY:40:THR:HG22	2.01	0.42
2:A2:173:LEU:HD13	2:A2:173:LEU:HA	1.79	0.42
2:A2:196:LEU:O	2:A2:200:ILE:HG13	2.20	0.42
3:A3:50:ILE:HB	3:A3:58:LYS:O	2.18	0.42
4:A4:75:LEU:C	4:A4:79:SER:HG	2.27	0.42
5:A5:24:THR:HG21	5:A5:73:LEU:HD12	2.01	0.42
7:A7:52:ARG:CB	7:A7:54:PHE:HE1	2.30	0.42
8:A8:65:THR:C	8:A8:67:SER:N	2.77	0.42
9:A9:92:HIS:NE2	10:AA:1225:U:O4	2.52	0.42
9:A9:154:UNK:O	9:A9:157:UNK:CG	2.68	0.42
10:AA:159:G:C2'	10:AA:160:C:H5'	2.49	0.42
10:AA:217:A:C6	10:AA:820:U:C2	3.08	0.42
10:AA:242:U:H2'	10:AA:244:A:OP2	2.19	0.42
10:AA:313:G:HO2'	10:AA:314:A:P	2.43	0.42
10:AA:401:A:N1	10:AA:402:C:C2	2.87	0.42
10:AA:405:C:O2'	10:AA:406:U:H5'	2.19	0.42
10:AA:418:G:H21	10:AA:451:G:H2'	1.85	0.42
10:AA:444:A:O2'	10:AA:445:U:P	2.77	0.42
10:AA:494:A:C8	10:AA:495:C:O4'	2.72	0.42
10:AA:508:A:C3'	10:AA:509:G:H5'	2.49	0.42
10:AA:713:U:H2'	10:AA:714:A:C8	2.54	0.42
10:AA:796:U:O5'	10:AA:796:U:H6	2.03	0.42
10:AA:948:A:H2'	10:AA:949:A:O4'	2.18	0.42
10:AA:954:G:H5"	10:AA:955:A:OP1	2.19	0.42
10:AA:1028:G:H2'	10:AA:1029:G:O4'	2.20	0.42
10:AA:1199:G:H4'	10:AA:1200:G:OP2	2.19	0.42
10:AA:1214:A:O2'	10:AA:1215:G:H5'	2.19	0.42
10:AA:1289:C:O2'	10:AA:1371:A:H1'	2.19	0.42
10:AA:1448:U:OP1	29:AT:47:ARG:HB3	2.19	0.42
10:AA:1473:G:H5"	29:AT:102:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1487:A:H3'	10:AA:1487:A:C8	2.54	0.42
11:AB:16:SER:HB2	11:AB:169:MET:HE2	2.02	0.42
14:AE:41:LYS:NZ	14:AE:247:PHE:CD1	2.86	0.42
14:AE:58:PRO:HG2	14:AE:59:GLU:CD	2.44	0.42
14:AE:116:TRP:N	14:AE:132:HIS:HD2	2.05	0.42
14:AE:244:PHE:N	14:AE:244:PHE:CD1	2.86	0.42
15:AF:55:LEU:HB2	15:AF:57:CYS:SG	2.59	0.42
16:AG:26:ASP:OD1	16:AG:28:CYS:N	2.53	0.42
16:AG:54:LYS:CG	16:AG:55:LYS:N	2.76	0.42
16:AG:70:THR:HB	16:AG:150:ILE:CD1	2.44	0.42
19:AJ:38:ILE:HG12	19:AJ:104:PHE:HE2	1.83	0.42
20:AK:53:LEU:HB2	20:AK:54:VAL:H	1.70	0.42
21:AL:3:VAL:HG12	21:AL:4:GLY:N	2.24	0.42
25:AP:18:ARG:HA	25:AP:73:VAL:O	2.20	0.42
28:AS:29:ASN:O	28:AS:31:GLU:HG2	2.19	0.42
31:AV:15:SER:HA	31:AV:18:GLU:HB3	2.01	0.42
31:AV:75:GLU:O	31:AV:76:GLU:C	2.62	0.42
32:AW:67:ASP:O	32:AW:69:GLU:N	2.52	0.42
32:AW:127:LYS:HZ3	32:AW:186:GLN:NE2	2.16	0.42
34:AY:23:LYS:HA	34:AY:40:THR:HG22	2.02	0.42
34:AY:98:ARG:HG2	34:AY:106:MET:CE	2.48	0.42
35:AZ:48:GLN:HE21	35:AZ:68:VAL:HG22	1.84	0.42
2:B2:83:LYS:HB2	10:BA:255:C:H4'	2.00	0.42
2:B2:147:VAL:O	2:B2:147:VAL:HG12	2.20	0.42
3:B3:47:GLU:CG	3:B3:61:VAL:HG22	2.50	0.42
3:B3:62:LEU:HD21	3:B3:64:TYR:HE1	1.83	0.42
3:B3:138:GLY:O	3:B3:154:GLN:HG2	2.19	0.42
4:B4:26:LEU:O	20:BK:16:TYR:CD2	2.72	0.42
4:B4:202:LYS:O	4:B4:205:LYS:HB2	2.20	0.42
7:B7:9:LYS:HG3	7:B7:13:TYR:HE1	1.83	0.42
8:B8:27:LYS:O	8:B8:28:LYS:C	2.62	0.42
10:BA:5:U:OP1	14:BE:184:ILE:CD1	2.66	0.42
10:BA:58:G:C2'	10:BA:59:C:OP2	2.67	0.42
10:BA:258:A:O2'	10:BA:259:U:C5'	2.68	0.42
10:BA:306:A:N6	10:BA:341:G:C4	2.88	0.42
10:BA:391:A:H5'	10:BA:392:A:C5'	2.40	0.42
10:BA:453:G:O3'	32:BW:26:ILE:CD1	2.67	0.42
10:BA:468:U:H5'	10:BA:469:A:C5'	2.49	0.42
10:BA:494:A:P	10:BA:495:C:OP2	2.77	0.42
10:BA:499:A:H4'	33:BX:28:ARG:HE	1.84	0.42
10:BA:565:G:H3'	10:BA:565:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:758:A:C2	10:BA:769:C:O2	2.72	0.42
10:BA:787:A:N3	17:BH:105:THR:CG2	2.82	0.42
10:BA:798:G:C2	10:BA:799:G:C8	3.07	0.42
10:BA:912:A:N3	10:BA:912:A:C3'	2.80	0.42
10:BA:1013:G:OP2	24:BO:11:LYS:NZ	2.47	0.42
10:BA:1157:U:N3	10:BA:1429:G:C8	2.88	0.42
10:BA:1157:U:C2	10:BA:1429:G:C8	3.08	0.42
10:BA:1366:G:N2	10:BA:1374:C:H1'	2.34	0.42
10:BA:1613:C:C1'	10:BA:1715:A:H2	2.16	0.42
11:BB:59:VAL:HG11	11:BB:141:ILE:HD11	2.01	0.42
12:BC:101:ALA:O	12:BC:102:SER:C	2.62	0.42
13:BD:40:ARG:O	13:BD:41:GLU:C	2.62	0.42
14:BE:30:GLN:N	14:BE:57:GLU:OE2	2.50	0.42
14:BE:157:GLN:OE1	14:BE:157:GLN:N	2.52	0.42
16:BG:193:GLU:O	16:BG:197:LYS:N	2.49	0.42
17:BH:12:LYS:O	17:BH:13:ASP:C	2.62	0.42
18:BI:20:ALA:CA	18:BI:71:VAL:HG22	2.41	0.42
19:BJ:69:PRO:O	23:BN:39:ARG:NH2	2.38	0.42
20:BK:103:VAL:HG12	20:BK:142:ARG:CD	2.49	0.42
22:BM:18:LEU:HD11	22:BM:73:ILE:HD12	2.02	0.42
26:BQ:7:ARG:O	26:BQ:8:ALA:C	2.62	0.42
27:BR:334:ARG:CB	27:BR:336:PHE:HE1	2.32	0.42
31:BV:112:GLN:NE2	31:BV:113:ASN:ND2	2.66	0.42
1:A1:38:GLY:O	1:A1:39:ARG:C	2.63	0.42
3:A3:13:THR:HG22	3:A3:14:LYS:N	2.35	0.42
4:A4:30:GLU:OE1	4:A4:97:ARG:NH1	2.53	0.42
4:A4:73:ALA:HB3	20:AK:128:ARG:HH22	1.85	0.42
4:A4:119:LYS:O	4:A4:120:TRP:CG	2.73	0.42
8:A8:26:GLY:HA3	8:A8:29:LYS:CE	2.50	0.42
8:A8:29:LYS:C	8:A8:30:TRP:O	2.56	0.42
8:A8:77:GLY:O	8:A8:78:SER:C	2.62	0.42
8:A8:81:ARG:O	8:A8:84:MET:N	2.52	0.42
9:A9:84:LYS:O	9:A9:85:LYS:C	2.62	0.42
9:A9:119:CYS:C	9:A9:121:PRO:HD2	2.45	0.42
10:AA:223:C:H2'	10:AA:224:G:H8	1.82	0.42
10:AA:433:G:O2'	10:AA:434:G:H5'	2.20	0.42
10:AA:433:G:C2	10:AA:456:A:N3	2.88	0.42
10:AA:451:G:OP1	25:AP:102:ARG:NH2	2.52	0.42
10:AA:533:G:H3'	10:AA:533:G:C8	2.55	0.42
10:AA:600:A:H4'	10:AA:601:G:H5"	2.00	0.42
10:AA:748:U:O4	13:AD:149:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:755:G:P	13:AD:7:ASN:ND2	2.93	0.42
10:AA:873:G:O6	10:AA:895:U:O4	2.37	0.42
10:AA:879:G:N2	10:AA:887:U:O4	2.52	0.42
10:AA:929:A:H2'	10:AA:930:A:H5'	2.02	0.42
10:AA:972:G:O2'	10:AA:973:A:H5'	2.20	0.42
10:AA:1069:U:O2	14:AE:169:ARG:HD2	2.20	0.42
10:AA:1170:G:C3'	10:AA:1171:G:H5'	2.49	0.42
10:AA:1261:U:C6	10:AA:1261:U:C3'	3.02	0.42
10:AA:1316:A:H2'	10:AA:1317:A:C8	2.55	0.42
10:AA:1413:C:C4'	10:AA:1418:C:H41	2.32	0.42
10:AA:1553:C:H5"	18:AI:137:ARG:O	2.19	0.42
11:AB:107:TYR:O	11:AB:107:TYR:HD1	2.02	0.42
11:AB:176:ARG:O	11:AB:180:ILE:HG13	2.20	0.42
12:AC:171:ILE:CG2	12:AC:173:VAL:HG23	2.50	0.42
13:AD:45:VAL:HG21	13:AD:105:MET:CE	2.42	0.42
14:AE:30:GLN:N	14:AE:57:GLU:OE2	2.52	0.42
14:AE:85:THR:CG2	14:AE:86:PRO:N	2.83	0.42
14:AE:142:LYS:O	14:AE:156:PRO:HD3	2.19	0.42
14:AE:216:TYR:CD1	14:AE:216:TYR:C	2.97	0.42
16:AG:175:ALA:O	16:AG:186:ILE:HD11	2.19	0.42
17:AH:75:ILE:O	17:AH:75:ILE:HG22	2.18	0.42
21:AL:5:LYS:NZ	21:AL:18:HIS:NE2	2.67	0.42
21:AL:124:VAL:O	21:AL:124:VAL:HG12	2.19	0.42
22:AM:28:THR:HG21	22:AM:61:LEU:CD1	2.47	0.42
22:AM:50:LEU:HB2	22:AM:52:ILE:HG13	2.01	0.42
25:AP:15:LEU:HD23	32:AW:96:LYS:HB2	2.01	0.42
25:AP:61:GLN:O	25:AP:62:TYR:C	2.62	0.42
25:AP:69:GLY:O	25:AP:70:PHE:HD1	2.02	0.42
31:AV:35:LEU:HD22	31:AV:47:ARG:HG2	2.01	0.42
34:AY:182:LEU:HG	34:AY:184:THR:HG23	2.01	0.42
34:AY:206:ASN:O	34:AY:210:GLU:HG3	2.20	0.42
4:B4:60:SER:OG	4:B4:94:VAL:CB	2.67	0.42
4:B4:97:ARG:HD2	4:B4:97:ARG:HA	1.86	0.42
4:B4:119:LYS:O	4:B4:120:TRP:CG	2.73	0.42
5:B5:28:ARG:HG3	20:BK:147:ARG:HA	2.02	0.42
8:B8:65:THR:CG2	8:B8:66:VAL:N	2.83	0.42
8:B8:65:THR:C	8:B8:67:SER:N	2.78	0.42
9:B9:83:LYS:C	9:B9:85:LYS:N	2.77	0.42
9:B9:151:UNK:HG2	9:B9:152:UNK:N	2.34	0.42
10:BA:25:A:N6	10:BA:593:A:N6	2.68	0.42
10:BA:85:G:N3	10:BA:444:A:C2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:164:U:HO2'	10:BA:165:A:P	2.38	0.42
10:BA:219:C:H2'	10:BA:220:A:H8	1.84	0.42
10:BA:224:G:C2'	10:BA:225:C:C5'	2.97	0.42
10:BA:276:U:H2'	10:BA:277:C:H6	1.85	0.42
10:BA:562:G:P	21:BL:69:LYS:HD2	2.60	0.42
10:BA:681:G:O2'	10:BA:682:C:H5'	2.20	0.42
10:BA:734:U:H2'	10:BA:735:G:C8	2.44	0.42
10:BA:761:U:O2'	10:BA:762:U:P	2.76	0.42
10:BA:786:A:O2'	10:BA:787:A:P	2.78	0.42
10:BA:840:A:N6	24:BO:72:LYS:NZ	2.67	0.42
10:BA:879:G:N2	10:BA:887:U:O4	2.52	0.42
10:BA:899:U:H2'	10:BA:900:A:H8	1.84	0.42
10:BA:911:A:O2'	10:BA:912:A:O5'	2.37	0.42
10:BA:1036:U:C4'	10:BA:1037:G:OP2	2.67	0.42
10:BA:1319:U:O2'	10:BA:1320:A:OP1	2.32	0.42
10:BA:1400:G:C6	10:BA:1401:U:C4	3.08	0.42
11:BB:74:SER:HG	11:BB:125:SER:HB3	1.85	0.42
12:BC:126:ILE:CG2	12:BC:157:GLN:HG3	2.49	0.42
13:BD:110:GLN:HG3	13:BD:126:ARG:CZ	2.49	0.42
14:BE:181:ALA:HB2	14:BE:199:THR:HG21	2.02	0.42
16:BG:86:LYS:O	16:BG:87:VAL:C	2.63	0.42
18:BI:16:LYS:O	18:BI:16:LYS:HG3	2.19	0.42
18:BI:16:LYS:HA	18:BI:125:ARG:HH11	1.84	0.42
21:BL:139:LYS:O	21:BL:140:GLU:HG3	2.19	0.42
22:BM:25:LYS:NZ	22:BM:57:ARG:HB3	2.35	0.42
23:BN:20:CYS:O	23:BN:22:VAL:N	2.53	0.42
24:BO:30:MET:HE3	24:BO:34:THR:HG22	2.00	0.42
24:BO:90:LEU:HG	24:BO:94:ILE:HD11	2.01	0.42
26:BQ:37:ILE:HG12	26:BQ:59:PHE:HE1	1.84	0.42
26:BQ:48:ILE:H	26:BQ:48:ILE:HG13	1.60	0.42
27:BR:127:SER:O	27:BR:128:PRO:C	2.63	0.42
28:BS:31:GLU:CG	28:BS:32:LYS:H	2.28	0.42
30:BU:108:TYR:HE2	30:BU:120:ILE:CD1	2.32	0.42
32:BW:105:TYR:CD2	32:BW:191:ILE:CD1	3.02	0.42
32:BW:215:ALA:C	32:BW:217:GLY:N	2.72	0.42
34:BY:221:LYS:O	34:BY:225:ALA:HB2	2.20	0.42
2:A2:63:PHE:HE2	10:AA:258:A:C4	2.38	0.42
2:A2:70:GLU:CG	2:A2:85:LYS:HG2	2.44	0.42
4:A4:28:ARG:H	4:A4:28:ARG:HG2	1.58	0.42
4:A4:72:LEU:HB2	4:A4:82:LYS:O	2.20	0.42
5:A5:46:ASP:CB	5:A5:47:PRO:HD2	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:A7:32:HIS:CD2	7:A7:35:THR:OG1	2.72	0.42
8:A8:68:THR:HA	8:A8:71:GLU:CG	2.49	0.42
9:A9:152:UNK:CA	9:A9:155:UNK:HG3	2.49	0.42
10:AA:378:A:O2'	10:AA:379:A:P	2.78	0.42
10:AA:731:C:C2'	10:AA:732:U:H5'	2.50	0.42
10:AA:873:G:N1	10:AA:895:U:N3	2.67	0.42
10:AA:1057:G:N2	10:AA:1061:U:C2	2.87	0.42
10:AA:1070:U:H4'	10:AA:1071:U:OP2	2.20	0.42
10:AA:1073:G:OP1	21:AL:7:ARG:NH1	2.53	0.42
10:AA:1173:G:N2	10:AA:1571:C:H2'	2.34	0.42
10:AA:1213:G:H1'	28:AS:84:HIS:CG	2.55	0.42
10:AA:1340:G:H2'	10:AA:1341:U:C5'	2.37	0.42
10:AA:1370:U:O4	10:AA:1371:A:C2	2.72	0.42
10:AA:1409:G:C6	10:AA:1410:C:N3	2.87	0.42
10:AA:1511:A:H4'	10:AA:1512:G:C5'	2.48	0.42
11:AB:182:ARG:HD3	11:AB:184:GLU:OE2	2.20	0.42
12:AC:39:GLY:C	12:AC:40:ILE:HG13	2.44	0.42
13:AD:26:ASN:HA	13:AD:29:LYS:CG	2.50	0.42
13:AD:136:VAL:O	13:AD:139:ASN:O	2.38	0.42
13:AD:164:LEU:HD23	13:AD:164:LEU:C	2.44	0.42
14:AE:147:ASN:N	14:AE:147:ASN:HD22	2.18	0.42
14:AE:174:PRO:HD3	14:AE:198:TYR:HE1	1.83	0.42
15:AF:35:VAL:CG1	15:AF:38:ILE:HD11	2.48	0.42
15:AF:85:LEU:CD2	15:AF:90:ILE:HD11	2.50	0.42
16:AG:59:THR:O	16:AG:61:CYS:N	2.53	0.42
16:AG:96:HIS:HD2	16:AG:97:LEU:HD23	1.85	0.42
16:AG:99:THR:O	16:AG:99:THR:CG2	2.65	0.42
17:AH:30:VAL:CG1	17:AH:31:SER:N	2.82	0.42
17:AH:59:LYS:CD	17:AH:59:LYS:N	2.64	0.42
17:AH:64:GLU:O	17:AH:65:LEU:HD23	2.20	0.42
17:AH:112:THR:HG22	17:AH:113:HIS:N	2.35	0.42
19:AJ:22:THR:O	19:AJ:112:ILE:HA	2.20	0.42
20:AK:110:PRO:CG	20:AK:111:GLY:N	2.82	0.42
22:AM:115:ARG:O	22:AM:119:ILE:HG13	2.19	0.42
24:AO:5:GLN:HE22	24:AO:126:ARG:NH1	2.18	0.42
24:AO:90:LEU:O	24:AO:94:ILE:HG13	2.19	0.42
25:AP:101:THR:O	25:AP:102:ARG:C	2.63	0.42
29:AT:10:VAL:HG22	29:AT:69:TYR:HE2	1.83	0.42
34:AY:5:ILE:HD13	34:AY:50:PHE:CE2	2.55	0.42
34:AY:160:VAL:CG1	34:AY:161:ILE:N	2.70	0.42
3:B3:33:LEU:HB3	3:B3:37:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B4:81:ASP:OD1	4:B4:81:ASP:C	2.62	0.42
6:B6:31:MET:HE3	6:B6:77:PHE:HD2	1.84	0.42
7:B7:79:LYS:HA	7:B7:79:LYS:HD3	1.79	0.42
8:B8:34:LYS:HD3	8:B8:36:LYS:CB	2.49	0.42
9:B9:154:UNK:C	9:B9:157:UNK:HG3	2.49	0.42
10:BA:1:A:H2'	14:BE:180:VAL:HG12	2.01	0.42
10:BA:14:C:N3	10:BA:15:U:C5	2.87	0.42
10:BA:81:A:O3'	25:BP:117:GLY:HA2	2.19	0.42
10:BA:322:G:H2'	10:BA:323:U:C6	2.54	0.42
10:BA:343:C:C2'	10:BA:344:A:OP2	2.67	0.42
10:BA:619:C:H42	10:BA:952:A:H61	1.67	0.42
10:BA:642:G:C3'	10:BA:643:U:H5'	2.48	0.42
10:BA:747:G:H21	10:BA:755:G:H1	1.68	0.42
10:BA:769:C:C6	10:BA:769:C:C3'	3.02	0.42
10:BA:1026:C:O5'	10:BA:1026:C:H6	2.03	0.42
10:BA:1256:C:OP2	10:BA:1595:C:H4'	2.20	0.42
10:BA:1366:G:H2'	10:BA:1367:C:O4'	2.20	0.42
11:BB:75:ARG:HH12	11:BB:162:ARG:HD3	1.85	0.42
11:BB:107:TYR:O	11:BB:107:TYR:HD1	2.01	0.42
11:BB:179:LYS:HE3	11:BB:191:TRP:CH2	2.55	0.42
12:BC:151:LYS:HD2	12:BC:152:THR:H	1.84	0.42
13:BD:16:ARG:O	13:BD:18:PRO:HD3	2.20	0.42
23:BN:39:ARG:CG	23:BN:40:ARG:H	2.20	0.42
25:BP:3:ILE:HD13	25:BP:37:LYS:HZ3	1.83	0.42
25:BP:122:LYS:O	25:BP:123:LEU:C	2.63	0.42
27:BR:44:SER:OG	27:BR:52:MET:HB2	2.19	0.42
27:BR:85:SER:O	27:BR:86:GLN:C	2.61	0.42
28:BS:32:LYS:O	28:BS:33:LEU:C	2.63	0.42
28:BS:35:SER:C	28:BS:37:GLU:N	2.77	0.42
29:BT:104:LEU:HD12	29:BT:104:LEU:HA	1.86	0.42
32:BW:70:GLN:HG2	32:BW:78:VAL:HG11	2.01	0.42
32:BW:258:PHE:N	32:BW:258:PHE:CD1	2.87	0.42
34:BY:55:GLY:CA	34:BY:63:MET:HG3	2.46	0.42
34:BY:98:ARG:HG2	34:BY:106:MET:CE	2.46	0.42
35:BZ:7:ASN:O	35:BZ:10:SER:HB3	2.19	0.42
2:A2:17:ARG:HG2	2:A2:18:MET:N	2.35	0.42
2:A2:75:TRP:HE1	2:A2:77:SER:HB2	1.83	0.42
7:A7:54:PHE:O	7:A7:69:ASN:HB3	2.19	0.42
8:A8:43:VAL:HB	22:AM:25:LYS:NZ	2.35	0.42
8:A8:69:VAL:O	8:A8:73:LEU:HG	2.20	0.42
10:AA:23:A:C2	10:AA:597:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:23:A:O2'	10:AA:24:C:H5'	2.20	0.42
10:AA:30:C:O2	10:AA:540:U:H4'	2.19	0.42
10:AA:65:C:OP1	34:AY:136:LYS:NZ	2.52	0.42
10:AA:68:U:H3'	10:AA:69:A:H8	1.85	0.42
10:AA:85:G:N3	10:AA:444:A:C2	2.87	0.42
10:AA:125:U:O2'	10:AA:126:A:H5'	2.20	0.42
10:AA:231:U:H3'	10:AA:232:G:H5"	2.00	0.42
10:AA:276:U:H2'	10:AA:277:C:H6	1.85	0.42
10:AA:402:C:O2	10:AA:415:G:N2	2.47	0.42
10:AA:570:G:O4'	10:AA:574:A:C2	2.73	0.42
10:AA:588:A:C4'	10:AA:589:G:O5'	2.63	0.42
10:AA:854:G:H2'	10:AA:921:C:O2	2.19	0.42
10:AA:888:C:H5'	10:AA:888:C:C6	2.55	0.42
10:AA:1091:G:OP2	10:AA:1092:U:C5	2.72	0.42
10:AA:1301:A:HO2'	10:AA:1302:G:H5'	1.79	0.42
10:AA:1570:U:C3'	10:AA:1571:C:H5"	2.49	0.42
15:AF:73:LEU:N	15:AF:73:LEU:CD2	2.83	0.42
15:AF:83:GLN:O	15:AF:87:GLU:HG3	2.19	0.42
15:AF:84:PHE:O	15:AF:88:GLU:HB2	2.20	0.42
16:AG:52:GLN:HE22	16:AG:58:LYS:CE	2.33	0.42
18:AI:44:GLN:HG3	18:AI:45:ILE:HG13	2.01	0.42
20:AK:33:ILE:O	20:AK:97:LEU:HD12	2.19	0.42
22:AM:1:MET:N	22:AM:3:PHE:HE2	2.18	0.42
22:AM:25:LYS:NZ	22:AM:57:ARG:CG	2.82	0.42
22:AM:123:ARG:HH11	22:AM:123:ARG:CB	2.32	0.42
26:AQ:83:VAL:HG12	26:AQ:84:ILE:N	2.34	0.42
27:AR:162:SER:HB2	27:AR:193:ASP:HB3	2.02	0.42
27:AR:241:ASP:C	27:AR:243:LEU:H	2.28	0.42
27:AR:264:ASN:C	27:AR:266:LYS:N	2.77	0.42
27:AR:336:PHE:CD1	27:AR:336:PHE:N	2.87	0.42
29:AT:83:PHE:CZ	29:AT:85:SER:CB	3.02	0.42
30:AU:108:TYR:OH	30:AU:120:ILE:HG21	2.20	0.42
31:AV:17:ILE:HD12	31:AV:57:LEU:HD12	2.01	0.42
32:AW:42:LEU:CD1	32:AW:47:LEU:HB2	2.49	0.42
32:AW:61:VAL:O	32:AW:62:THR:C	2.62	0.42
34:AY:64:LYS:NZ	34:AY:81:HIS:HB3	2.35	0.42
34:AY:85:THR:HG22	34:AY:86:SER:N	2.35	0.42
34:AY:195:LYS:HA	34:AY:198:LYS:HB2	2.02	0.42
5:B5:13:LYS:HG2	10:BA:912:A:H1'	2.01	0.42
7:B7:58:ILE:HD13	12:BC:31:SER:CB	2.42	0.42
8:B8:68:THR:HA	8:B8:71:GLU:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:103:LEU:HD11	30:BU:58:LEU:HD23	2.02	0.42
10:BA:246:U:H2'	10:BA:246:U:O2	2.19	0.42
10:BA:267:A:H2'	10:BA:268:G:C8	2.55	0.42
10:BA:520:A:C5	10:BA:521:U:C5	3.07	0.42
10:BA:633:U:C2'	10:BA:634:C:OP2	2.66	0.42
10:BA:707:U:C6	10:BA:707:U:H3'	2.55	0.42
10:BA:798:G:H2'	10:BA:799:G:C8	2.47	0.42
10:BA:1038:U:H2'	10:BA:1039:C:H6	1.85	0.42
10:BA:1390:G:H5"	23:BN:55:ARG:HD3	2.01	0.42
10:BA:1453:C:H2'	10:BA:1454:A:H5'	2.02	0.42
10:BA:1583:A:N3	10:BA:1584:U:C5	2.88	0.42
10:BA:1687:C:O2'	10:BA:1688:C:H5'	2.20	0.42
13:BD:140:LEU:HD12	13:BD:141:VAL:N	2.34	0.42
13:BD:158:PHE:HD2	13:BD:163:PRO:HG2	1.85	0.42
14:BE:27:TRP:CH2	14:BE:57:GLU:CD	2.96	0.42
14:BE:45:LEU:O	14:BE:48:ILE:HB	2.20	0.42
15:BF:89:GLY:C	15:BF:91:ALA:H	2.28	0.42
16:BG:24:ILE:CD1	16:BG:30:GLN:HA	2.49	0.42
20:BK:95:ILE:HD11	20:BK:126:ILE:HG23	2.00	0.42
21:BL:21:ASP:C	21:BL:23:ARG:H	2.27	0.42
21:BL:87:PRO:HB2	21:BL:88:MET:H	1.66	0.42
22:BM:88:ARG:C	22:BM:89:ILE:HG13	2.45	0.42
25:BP:69:GLY:O	25:BP:70:PHE:HD1	2.03	0.42
29:BT:76:ILE:HG13	29:BT:76:ILE:H	1.65	0.42
32:BW:47:LEU:HB3	32:BW:48:LEU:HD23	2.01	0.42
32:BW:101:PHE:CD2	32:BW:113:LEU:HB3	2.55	0.42
34:BY:41:LEU:HD13	34:BY:45:PHE:CD1	2.54	0.42
34:BY:137:ARG:O	34:BY:138:ALA:C	2.63	0.42
1:A1:65:ARG:HH21	1:A1:67:LEU:CD1	2.33	0.42
2:A2:69:CYS:O	2:A2:86:ILE:CD1	2.68	0.42
2:A2:126:GLY:C	2:A2:127:ILE:HG13	2.45	0.42
4:A4:194:LEU:HD23	4:A4:221:VAL:HG21	2.02	0.42
5:A5:84:ARG:NH1	10:AA:1126:C:P	2.93	0.42
8:A8:27:LYS:O	8:A8:28:LYS:C	2.62	0.42
8:A8:43:VAL:HB	22:AM:25:LYS:HZ1	1.84	0.42
9:A9:83:LYS:CG	9:A9:84:LYS:H	2.31	0.42
10:AA:36:U:O2'	10:AA:753:C:N4	2.50	0.42
10:AA:46:A:H4'	10:AA:47:C:C5'	2.50	0.42
10:AA:64:U:O2'	10:AA:65:C:P	2.77	0.42
10:AA:133:A:N6	10:AA:169:G:C2'	2.82	0.42
10:AA:224:G:C2'	10:AA:225:C:C5'	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:317:G:N2	10:AA:334:C:H1'	2.34	0.42
10:AA:322:G:H2'	10:AA:323:U:C6	2.54	0.42
10:AA:427:A:C6	10:AA:428:A:N1	2.88	0.42
10:AA:564:A:H8	10:AA:564:A:O5'	2.03	0.42
10:AA:842:U:C6	10:AA:842:U:H3'	2.55	0.42
10:AA:981:A:H2'	10:AA:983:A:N7	2.35	0.42
10:AA:1031:A:C5	10:AA:1032:U:C4	3.08	0.42
10:AA:1069:U:O4	14:AE:202:GLN:OE1	2.37	0.42
10:AA:1165:A:O2'	10:AA:1166:A:OP1	2.37	0.42
10:AA:1453:C:H2'	10:AA:1454:A:H5'	2.02	0.42
10:AA:1485:G:O2'	10:AA:1487:A:N3	2.39	0.42
10:AA:1526:G:N3	10:AA:1526:G:O4'	2.53	0.42
14:AE:27:TRP:HE3	14:AE:27:TRP:HA	1.85	0.42
20:AK:91:ASN:HD22	20:AK:125:LYS:HD2	1.83	0.42
22:AM:36:ARG:HB2	22:AM:102:SER:HA	2.01	0.42
22:AM:99:GLN:O	22:AM:100:MET:C	2.63	0.42
22:AM:100:MET:HE1	22:AM:108:LYS:HE3	2.02	0.42
24:AO:92:PHE:O	24:AO:93:LEU:C	2.62	0.42
25:AP:3:ILE:N	25:AP:3:ILE:CD1	2.83	0.42
25:AP:70:PHE:N	25:AP:70:PHE:CD1	2.88	0.42
25:AP:119:ALA:O	25:AP:122:LYS:N	2.53	0.42
26:AQ:73:LEU:HD12	26:AQ:120:ASP:C	2.45	0.42
27:AR:205:ILE:H	27:AR:205:ILE:HG12	1.65	0.42
27:AR:297:GLU:H	27:AR:298:PRO:HD3	1.84	0.42
27:AR:334:ARG:CB	27:AR:336:PHE:HE1	2.32	0.42
29:AT:45:VAL:CG1	29:AT:46:ALA:N	2.72	0.42
29:AT:89:ARG:HD2	29:AT:95:LYS:HG2	2.01	0.42
30:AU:120:ILE:H	30:AU:120:ILE:HG13	1.72	0.42
32:AW:101:PHE:HD2	32:AW:113:LEU:HB3	1.85	0.42
32:AW:127:LYS:O	32:AW:143:THR:HA	2.20	0.42
32:AW:194:VAL:HG11	32:AW:230:LEU:HD23	2.02	0.42
34:AY:1:MET:HE3	34:AY:109:LEU:HG	2.02	0.42
2:B2:112:ILE:HD11	2:B2:174:ALA:CB	2.50	0.42
2:B2:195:GLU:CB	26:BQ:10:GLN:NE2	2.75	0.42
4:B4:95:ASP:O	4:B4:96:GLY:C	2.63	0.42
4:B4:95:ASP:O	4:B4:96:GLY:O	2.38	0.42
6:B6:57:CYS:O	6:B6:58:SER:CB	2.64	0.42
7:B7:23:VAL:HG11	12:BC:78:LYS:HB3	2.00	0.42
7:B7:59:PHE:CD1	7:B7:63:PHE:O	2.73	0.42
9:B9:130:ASP:O	9:B9:142:LYS:HG3	2.19	0.42
10:BA:12:U:O2'	10:BA:1271:G:O2'	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:378:A:H2	10:BA:418:G:OP2	2.03	0.42
10:BA:384:C:O2'	10:BA:385:C:H5'	2.20	0.42
10:BA:470:G:O2'	10:BA:471:C:H5'	2.20	0.42
10:BA:683:A:O2'	10:BA:684:A:H5'	2.20	0.42
10:BA:763:U:O3'	10:BA:764:U:H6	2.03	0.42
10:BA:893:A:H3'	10:BA:894:U:H6	1.84	0.42
10:BA:1139:G:C2	10:BA:1140:U:C5	3.08	0.42
10:BA:1338:A:C6	10:BA:1339:G:N7	2.88	0.42
10:BA:1362:U:H2'	10:BA:1363:U:H6	1.83	0.42
10:BA:1475:G:C6	10:BA:1476:A:N6	2.88	0.42
10:BA:1496:A:N6	10:BA:1497:A:C6	2.88	0.42
10:BA:1583:A:O2'	10:BA:1584:U:C5'	2.68	0.42
11:BB:109:THR:HG22	11:BB:110:LEU:N	2.35	0.42
11:BB:180:ILE:CG1	11:BB:185:LEU:HD23	2.49	0.42
12:BC:35:ALA:HB2	12:BC:60:GLN:HG3	2.00	0.42
13:BD:41:GLU:O	13:BD:44:ARG:HB3	2.20	0.42
13:BD:108:ARG:NH2	13:BD:126:ARG:HH22	2.17	0.42
14:BE:153:HIS:CD2	14:BE:175:ARG:HG2	2.55	0.42
15:BF:85:LEU:HB3	15:BF:91:ALA:HB3	2.01	0.42
15:BF:89:GLY:C	15:BF:91:ALA:N	2.77	0.42
20:BK:110:PRO:CD	20:BK:111:GLY:H	2.33	0.42
20:BK:142:ARG:HB3	20:BK:143:GLU:H	1.63	0.42
22:BM:93:LYS:O	28:BS:16:LYS:HD3	2.19	0.42
23:BN:10:PRO:C	23:BN:12:ASN:N	2.76	0.42
24:BO:24:SER:HB3	24:BO:25:PRO:HD2	2.01	0.42
24:BO:128:SER:O	24:BO:132:LYS:HG3	2.20	0.42
25:BP:31:PRO:O	25:BP:32:THR:C	2.63	0.42
25:BP:95:LEU:HD12	25:BP:95:LEU:HA	1.82	0.42
25:BP:115:THR:CG2	25:BP:116:SER:H	2.31	0.42
26:BQ:32:ARG:HD2	26:BQ:48:ILE:O	2.19	0.42
26:BQ:75:ILE:HD11	26:BQ:86:ARG:HD3	2.02	0.42
27:BR:43:ILE:HA	27:BR:52:MET:O	2.20	0.42
27:BR:172:PRO:HG3	27:BR:223:PRO:O	2.20	0.42
27:BR:173:ILE:O	27:BR:173:ILE:HG22	2.19	0.42
28:BS:69:LYS:NZ	28:BS:93:GLU:O	2.44	0.42
29:BT:153:GLN:O	29:BT:153:GLN:NE2	2.53	0.42
30:BU:41:ALA:C	30:BU:43:PHE:H	2.28	0.42
32:BW:224:LEU:C	32:BW:226:ASN:N	2.78	0.42
34:BY:31:LYS:HE2	34:BY:68:MET:CE	2.50	0.42
34:BY:85:THR:HG22	34:BY:86:SER:N	2.35	0.42
34:BY:165:PHE:C	34:BY:165:PHE:CD1	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BY:182:LEU:HG	34:BY:184:THR:HG23	2.01	0.42
4:A4:66:ARG:HD3	20:AK:50:ARG:HD3	2.01	0.42
6:A6:35:CYS:SG	6:A6:36:ALA:N	2.92	0.42
7:A7:16:LEU:CD2	7:A7:16:LEU:C	2.93	0.42
7:A7:88:ILE:HG21	7:A7:93:LYS:HD2	2.02	0.42
8:A8:47:LYS:HA	8:A8:50:VAL:HG23	2.02	0.42
9:A9:154:UNK:C	9:A9:157:UNK:HG3	2.48	0.42
10:AA:81:A:O2'	25:AP:117:GLY:CA	2.68	0.42
10:AA:155:U:C5'	34:AY:83:CYS:HA	2.50	0.42
10:AA:243:G:C4	26:AQ:39:LEU:HD13	2.54	0.42
10:AA:532:G:O2'	10:AA:533:G:O5'	2.36	0.42
10:AA:597:U:H2'	10:AA:598:A:H8	1.85	0.42
10:AA:643:U:H2'	10:AA:644:U:C6	2.54	0.42
10:AA:643:U:C2'	10:AA:644:U:O4'	2.66	0.42
10:AA:876:A:H1'	10:AA:877:G:O4'	2.20	0.42
10:AA:932:G:H2'	10:AA:933:A:O4'	2.20	0.42
10:AA:1245:G:C4	10:AA:1401:U:C5	3.08	0.42
10:AA:1430:C:O4'	28:AS:131:THR:OG1	2.36	0.42
10:AA:1535:A:C2'	10:AA:1536:U:H5'	2.49	0.42
10:AA:1652:A:H5'	10:AA:1653:C:OP2	2.20	0.42
12:AC:62:ILE:H	12:AC:62:ILE:HG13	1.69	0.42
16:AG:44:VAL:CG1	16:AG:45:PRO:HD2	2.46	0.42
16:AG:61:CYS:HA	16:AG:62:PRO:HD2	1.91	0.42
16:AG:72:MET:HE1	16:AG:81:LYS:CB	2.37	0.42
16:AG:184:TRP:CE2	16:AG:188:LYS:HE3	2.55	0.42
22:AM:88:ARG:NH2	22:AM:112:ASP:OD2	2.49	0.42
24:AO:101:ARG:NH1	24:AO:145:ALA:HA	2.28	0.42
24:AO:148:ALA:O	24:AO:152:VAL:HG23	2.20	0.42
25:AP:123:LEU:HD12	25:AP:123:LEU:N	2.35	0.42
26:AQ:117:LYS:O	26:AQ:120:ASP:OD1	2.38	0.42
27:AR:268:GLN:HB3	27:AR:284:MET:HE3	2.01	0.42
28:AS:63:ASN:HA	28:AS:66:ARG:HB2	2.02	0.42
30:AU:41:ALA:C	30:AU:43:PHE:H	2.28	0.42
32:AW:113:LEU:HD23	32:AW:113:LEU:HA	1.82	0.42
32:AW:116:LEU:N	32:AW:116:LEU:CD2	2.83	0.42
32:AW:117:SER:O	32:AW:118:LYS:C	2.63	0.42
32:AW:210:CYS:SG	32:AW:227:ILE:HD11	2.59	0.42
3:B3:152:ARG:HG3	3:B3:154:GLN:NE2	2.33	0.42
4:B4:93:GLU:O	4:B4:100:LYS:HB2	2.19	0.42
4:B4:108:ILE:HG13	4:B4:219:ARG:O	2.19	0.42
6:B6:5:LEU:HB2	17:BH:24:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:24:LEU:HD12	7:B7:25:LYS:N	2.35	0.42
7:B7:54:PHE:HD2	7:B7:72:GLY:HA2	1.85	0.42
8:B8:26:GLY:HA3	8:B8:29:LYS:CE	2.49	0.42
10:BA:359:U:O2'	10:BA:360:U:H5'	2.20	0.42
10:BA:457:G:C5	10:BA:458:U:C5	3.08	0.42
10:BA:512:C:C5	10:BA:513:A:C8	3.08	0.42
10:BA:764:U:O2	10:BA:766:G:C5	2.73	0.42
10:BA:847:A:H4'	24:BO:92:PHE:CZ	2.54	0.42
10:BA:954:G:H5"	10:BA:955:A:OP1	2.20	0.42
10:BA:967:U:H1'	20:BK:140:THR:CG2	2.49	0.42
10:BA:1119:G:N3	10:BA:1605:A:C2	2.88	0.42
10:BA:1191:A:N6	10:BA:1237:G:H1'	2.34	0.42
10:BA:1227:G:C2'	10:BA:1228:A:OP2	2.68	0.42
10:BA:1263:G:H8	10:BA:1263:G:P	2.43	0.42
10:BA:1345:A:C8	10:BA:1345:A:H5'	2.54	0.42
10:BA:1480:U:O2'	10:BA:1481:A:OP2	2.38	0.42
10:BA:1550:U:O2'	10:BA:1551:U:H5'	2.20	0.42
10:BA:1636:C:C2	10:BA:1690:A:C2	3.08	0.42
11:BB:2:ALA:HB3	11:BB:6:LYS:CD	2.47	0.42
11:BB:54:LYS:HB2	35:BZ:95:ILE:HD12	2.01	0.42
12:BC:195:TYR:CD1	12:BC:196:GLU:N	2.88	0.42
13:BD:32:GLY:HA3	33:BX:41:TYR:CD2	2.54	0.42
13:BD:125:SER:O	13:BD:129:ILE:CD1	2.67	0.42
13:BD:125:SER:O	13:BD:128:LEU:HB2	2.19	0.42
13:BD:171:ARG:CG	13:BD:175:LYS:HZ2	2.32	0.42
14:BE:65:TYR:CD2	14:BE:77:LEU:HB2	2.54	0.42
14:BE:147:ASN:N	14:BE:147:ASN:HD22	2.18	0.42
15:BF:26:ARG:HG3	15:BF:32:PHE:CD2	2.54	0.42
15:BF:47:ILE:HG23	15:BF:51:TRP:NE1	2.35	0.42
16:BG:41:GLN:H	16:BG:41:GLN:HG2	1.55	0.42
17:BH:3:LYS:C	17:BH:4:VAL:HG22	2.45	0.42
20:BK:110:PRO:CG	20:BK:111:GLY:N	2.82	0.42
22:BM:25:LYS:NZ	22:BM:57:ARG:CG	2.82	0.42
22:BM:149:GLY:O	22:BM:150:VAL:O	2.38	0.42
23:BN:6:TRP:O	23:BN:7:ARG:C	2.63	0.42
25:BP:46:LEU:O	25:BP:47:LYS:HB2	2.19	0.42
27:BR:334:ARG:HB3	27:BR:336:PHE:HE1	1.85	0.42
28:BS:15:GLY:CA	28:BS:114:PHE:HE2	2.33	0.42
31:BV:20:TYR:N	31:BV:20:TYR:HD1	2.18	0.42
32:BW:61:VAL:O	32:BW:62:THR:C	2.63	0.42
32:BW:185:ILE:HA	32:BW:226:ASN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BZ:78:GLU:O	35:BZ:80:HIS:N	2.53	0.42
1:A1:45:VAL:CG1	1:A1:46:LYS:H	2.31	0.41
1:A1:46:LYS:HE3	16:AG:140:ARG:HE	1.84	0.41
3:A3:47:GLU:CG	3:A3:61:VAL:HG22	2.50	0.41
3:A3:180:ARG:O	3:A3:182:VAL:HG23	2.20	0.41
7:A7:35:THR:CG2	7:A7:37:VAL:CG2	2.98	0.41
9:A9:101:TYR:CD1	9:A9:101:TYR:N	2.88	0.41
10:AA:93:C:O2'	10:AA:94:U:H5'	2.20	0.41
10:AA:99:A:O2'	10:AA:100:A:P	2.78	0.41
10:AA:112:U:H2'	10:AA:113:U:C6	2.55	0.41
10:AA:148:C:C4'	34:AY:108:VAL:HG21	2.49	0.41
10:AA:155:U:C4'	34:AY:83:CYS:HA	2.49	0.41
10:AA:181:G:C3'	10:AA:182:U:C5'	2.96	0.41
10:AA:287:U:H2'	10:AA:288:C:O4'	2.20	0.41
10:AA:436:C:N3	10:AA:453:G:N2	2.68	0.41
10:AA:444:A:H2'	10:AA:445:U:H5'	2.01	0.41
10:AA:551:U:HO2'	10:AA:552:C:P	2.43	0.41
10:AA:604:G:H1'	10:AA:607:G:O2'	2.20	0.41
10:AA:618:G:H2'	10:AA:619:C:O4'	2.20	0.41
10:AA:707:U:C6	10:AA:707:U:C3'	3.03	0.41
10:AA:753:C:C3'	10:AA:754:A:H5'	2.50	0.41
10:AA:769:C:C6	10:AA:769:C:C3'	3.03	0.41
10:AA:866:U:H3'	10:AA:867:U:H5"	2.01	0.41
10:AA:1263:G:H2'	10:AA:1264:G:C8	2.55	0.41
10:AA:1402:C:H5'	38:AA:2394:HOH:O	2.19	0.41
10:AA:1433:G:C2	10:AA:1434:C:C6	3.08	0.41
12:AC:36:GLY:O	12:AC:55:ALA:HB1	2.19	0.41
12:AC:170:TYR:CE2	12:AC:205:VAL:HG21	2.55	0.41
13:AD:32:GLY:HA3	33:AX:41:TYR:CG	2.55	0.41
13:AD:39:LYS:O	13:AD:40:ARG:C	2.63	0.41
15:AF:47:ILE:N	15:AF:47:ILE:HD12	2.34	0.41
16:AG:99:THR:CG2	16:AG:101:ARG:HE	2.33	0.41
19:AJ:55:ARG:HE	19:AJ:87:ARG:HH11	1.67	0.41
26:AQ:74:VAL:HG13	26:AQ:83:VAL:HG11	2.01	0.41
27:AR:77:HIS:CG	27:AR:78:PHE:N	2.87	0.41
27:AR:153:PHE:CD2	27:AR:203:PHE:CD2	3.08	0.41
27:AR:181:GLN:HB3	27:AR:182:PRO:CD	2.47	0.41
27:AR:216:VAL:HG11	27:AR:230:THR:HG23	2.01	0.41
27:AR:218:HIS:CG	27:AR:219:LEU:H	2.38	0.41
28:AS:101:VAL:O	28:AS:108:VAL:N	2.46	0.41
30:AU:49:ASP:CG	30:AU:75:LYS:HA	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:185:ILE:HD12	32:AW:190:ASN:O	2.20	0.41
34:AY:160:VAL:CG1	34:AY:161:ILE:H	2.02	0.41
34:AY:161:ILE:HG22	34:AY:162:ARG:N	2.35	0.41
35:AZ:34:TRP:CD1	35:AZ:82:ALA:HB1	2.49	0.41
4:B4:50:VAL:HG12	4:B4:51:THR:H	1.82	0.41
7:B7:48:SER:O	7:B7:52:ARG:HG3	2.19	0.41
7:B7:51:ASP:HB3	10:BA:1192:C:H5"	2.01	0.41
8:B8:34:LYS:HD3	8:B8:36:LYS:HB3	2.01	0.41
8:B8:95:LYS:HZ1	8:B8:98:LYS:HD2	1.85	0.41
9:B9:119:CYS:C	9:B9:121:PRO:HD2	2.44	0.41
9:B9:157:UNK:O	9:B9:161:UNK:HG3	2.20	0.41
10:BA:72:G:C2	10:BA:76:A:N3	2.88	0.41
10:BA:123:A:C5	10:BA:173:A:C6	3.08	0.41
10:BA:159:G:C2'	10:BA:160:C:H5'	2.50	0.41
10:BA:418:G:H21	10:BA:451:G:H2'	1.85	0.41
10:BA:433:G:O2'	10:BA:434:G:H5'	2.20	0.41
10:BA:570:G:O4'	10:BA:574:A:C2	2.73	0.41
10:BA:580:G:H2'	10:BA:581:C:O4'	2.20	0.41
10:BA:600:A:H4'	10:BA:601:G:H5"	2.01	0.41
10:BA:602:U:HO2'	10:BA:603:U:P	2.42	0.41
10:BA:798:G:O2'	10:BA:799:G:O4'	2.38	0.41
10:BA:1086:G:N2	10:BA:1103:G:H2'	2.35	0.41
10:BA:1143:A:O2'	10:BA:1542:A:N3	2.52	0.41
10:BA:1723:A:H2'	10:BA:1724:U:O4'	2.20	0.41
11:BB:65:HIS:HA	11:BB:66:PRO:HD3	1.90	0.41
12:BC:108:MET:CE	12:BC:139:ILE:HD13	2.50	0.41
14:BE:33:LEU:C	14:BE:35:ARG:N	2.74	0.41
14:BE:159:ILE:HD11	14:BE:222:THR:HA	2.02	0.41
15:BF:85:LEU:HD23	15:BF:90:ILE:HD11	2.01	0.41
16:BG:83:LEU:HD23	16:BG:84:CYS:CA	2.49	0.41
19:BJ:93:CYS:HB3	19:BJ:97:ASP:CB	2.46	0.41
20:BK:138:ASP:CG	20:BK:139:SER:H	2.21	0.41
24:BO:50:SER:O	24:BO:54:VAL:HG23	2.20	0.41
27:BR:122:TYR:HE2	27:BR:138:ALA:HB2	1.85	0.41
27:BR:255:GLY:O	27:BR:256:SER:OG	2.36	0.41
30:BU:76:ARG:HB2	30:BU:100:CYS:O	2.20	0.41
32:BW:23:LEU:O	32:BW:24:GLY:C	2.63	0.41
1:A1:39:ARG:HD3	1:A1:41:LEU:HD13	2.01	0.41
2:A2:106:LYS:HD3	2:A2:106:LYS:C	2.45	0.41
2:A2:191:LEU:O	2:A2:192:GLU:HG2	2.20	0.41
3:A3:132:LEU:O	3:A3:134:SER:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:131:LYS:O	4:A4:183:ALA:HA	2.20	0.41
5:A5:77:ILE:CD1	5:A5:77:ILE:H	2.30	0.41
9:A9:84:LYS:HA	9:A9:84:LYS:HD2	1.91	0.41
10:AA:73:A:H4'	10:AA:74:A:C5'	2.50	0.41
10:AA:210:A:H3'	10:AA:239:A:H2	1.84	0.41
10:AA:626:U:OP2	26:AQ:101:LYS:NZ	2.43	0.41
10:AA:660:U:H2'	10:AA:661:G:C8	2.55	0.41
10:AA:716:G:O2'	10:AA:717:G:C5'	2.68	0.41
10:AA:736:A:OP2	32:AW:189:ASN:CB	2.68	0.41
10:AA:929:A:H2'	10:AA:930:A:C5'	2.49	0.41
10:AA:1123:G:N2	10:AA:1721:G:H8	2.19	0.41
10:AA:1148:G:C6	10:AA:1149:C:C4	3.08	0.41
10:AA:1409:G:O5'	10:AA:1409:G:C8	2.73	0.41
10:AA:1498:U:H2'	10:AA:1499:A:H5'	2.02	0.41
10:AA:1612:C:O5'	10:AA:1612:C:H6	2.02	0.41
10:AA:1674:A:C6	10:AA:1675:A:N7	2.88	0.41
11:AB:14:LEU:HD13	11:AB:19:HIS:CE1	2.53	0.41
12:AC:9:ASN:C	12:AC:11:LYS:H	2.28	0.41
12:AC:119:ARG:HD2	14:AE:123:GLN:CD	2.42	0.41
12:AC:126:ILE:CG2	12:AC:157:GLN:HG3	2.48	0.41
13:AD:18:PRO:HG2	13:AD:19:TYR:CD1	2.55	0.41
13:AD:26:ASN:O	13:AD:30:LEU:HB2	2.19	0.41
13:AD:121:SER:H	13:AD:124:HIS:HB3	1.85	0.41
14:AE:45:LEU:HG	14:AE:49:PHE:CE2	2.55	0.41
14:AE:156:PRO:HG2	14:AE:157:GLN:CD	2.45	0.41
16:AG:45:PRO:HB2	16:AG:68:ILE:CD1	2.50	0.41
16:AG:117:ARG:HE	16:AG:189:LYS:NZ	2.17	0.41
17:AH:74:VAL:CG1	17:AH:126:LEU:O	2.68	0.41
19:AJ:28:LEU:O	19:AJ:29:LYS:C	2.63	0.41
20:AK:17:GLY:O	20:AK:18:PRO:C	2.62	0.41
20:AK:78:ALA:CB	20:AK:118:ALA:HB3	2.49	0.41
21:AL:97:GLU:O	21:AL:98:ASN:CB	2.67	0.41
23:AN:20:CYS:O	23:AN:22:VAL:N	2.53	0.41
26:AQ:71:LYS:HB3	26:AQ:157:PHE:HE2	1.82	0.41
28:AS:20:GLU:O	28:AS:24:LEU:HB2	2.20	0.41
33:AX:35:SER:O	33:AX:38:ARG:HB3	2.20	0.41
34:AY:224:ALA:O	34:AY:227:ALA:HB3	2.19	0.41
3:B3:50:ILE:HD11	3:B3:169:ALA:HB2	2.02	0.41
4:B4:37:PRO:C	4:B4:38:ILE:O	2.59	0.41
4:B4:72:LEU:HB2	4:B4:82:LYS:O	2.19	0.41
4:B4:190:PHE:CE1	4:B4:194:LEU:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:25:ALA:HB1	6:B6:26:PRO:HD2	2.02	0.41
10:BA:5:U:OP2	14:BE:205:THR:CB	2.68	0.41
10:BA:77:G:C8	10:BA:77:G:C5'	2.94	0.41
10:BA:451:G:OP1	25:BP:102:ARG:NH2	2.53	0.41
10:BA:560:C:O2'	33:BX:10:LYS:HE2	2.20	0.41
10:BA:670:G:C5'	10:BA:670:G:C8	3.03	0.41
10:BA:731:C:O2'	17:BH:121:THR:HG23	2.20	0.41
10:BA:732:U:H2'	10:BA:733:G:C8	2.55	0.41
10:BA:750:U:C1'	13:BD:139:ASN:HD21	2.33	0.41
10:BA:798:G:N2	10:BA:799:G:C4	2.89	0.41
10:BA:895:U:H4'	20:BK:41:PHE:CD2	2.55	0.41
10:BA:996:U:C4	10:BA:997:A:N7	2.88	0.41
10:BA:1018:G:C2'	10:BA:1019:G:H5'	2.50	0.41
10:BA:1028:G:H2'	10:BA:1029:G:O4'	2.19	0.41
10:BA:1201:G:O2'	10:BA:1202:A:C8	2.73	0.41
10:BA:1329:G:H4'	29:BT:134:LYS:HE2	2.03	0.41
10:BA:1401:U:H1'	19:BJ:70:CYS:SG	2.60	0.41
10:BA:1556:G:C2'	10:BA:1557:U:OP2	2.68	0.41
10:BA:1717:C:C3'	10:BA:1718:A:H5'	2.51	0.41
11:BB:31:ARG:CZ	35:BZ:81:ILE:HG13	2.50	0.41
11:BB:76:ILE:HG13	11:BB:77:TYR:CD1	2.54	0.41
12:BC:11:LYS:HG2	19:BJ:61:LEU:HD21	2.02	0.41
13:BD:23:ARG:HH21	13:BD:24:LEU:CD2	2.34	0.41
16:BG:46:HIS:CD2	16:BG:81:LYS:HD2	2.55	0.41
16:BG:47:THR:O	16:BG:49:GLY:N	2.52	0.41
18:BI:46:LEU:O	18:BI:47:GLN:C	2.63	0.41
20:BK:61:LYS:HE3	20:BK:76:GLN:HB3	2.01	0.41
21:BL:78:ASN:ND2	21:BL:80:LYS:HG2	2.34	0.41
25:BP:21:LEU:N	25:BP:21:LEU:CD2	2.77	0.41
26:BQ:53:VAL:O	26:BQ:53:VAL:HG12	2.20	0.41
28:BS:72:CYS:SG	28:BS:79:VAL:HG23	2.60	0.41
30:BU:94:ILE:HG21	30:BU:97:VAL:CB	2.41	0.41
31:BV:59:LYS:HA	31:BV:62:GLN:HG2	2.01	0.41
32:BW:44:LEU:O	32:BW:47:LEU:HB3	2.20	0.41
32:BW:73:PHE:HB2	32:BW:93:ARG:HB3	2.01	0.41
32:BW:77:LYS:NZ	32:BW:147:ARG:HH12	2.17	0.41
32:BW:129:THR:HG22	32:BW:130:ALA:N	2.33	0.41
32:BW:188:GLY:O	32:BW:191:ILE:CG2	2.68	0.41
34:BY:206:ASN:O	34:BY:210:GLU:HG3	2.20	0.41
2:A2:105:VAL:HG12	2:A2:107:ASN:N	2.32	0.41
2:A2:194:LYS:HE2	26:AQ:4:GLN:OE1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:13:THR:HB	3:A3:16:GLU:HG3	2.02	0.41
3:A3:33:LEU:HB3	3:A3:37:LEU:HD12	2.02	0.41
5:A5:5:ARG:HH21	10:AA:1748:U:H3'	1.84	0.41
7:A7:10:ILE:HG13	7:A7:10:ILE:H	1.71	0.41
9:A9:148:UNK:CA	9:A9:151:UNK:HG3	2.50	0.41
10:AA:110:A:O2'	26:AQ:64:SER:OG	2.37	0.41
10:AA:214:U:C2	10:AA:811:U:O2'	2.73	0.41
10:AA:263:A:O2'	10:AA:264:U:OP1	2.33	0.41
10:AA:356:G:C2	10:AA:357:A:C8	3.08	0.41
10:AA:554:U:H2'	10:AA:555:G:C8	2.55	0.41
10:AA:631:C:O2	10:AA:838:U:H1'	2.20	0.41
10:AA:679:U:HO2'	10:AA:680:U:H5'	1.85	0.41
10:AA:707:U:C6	10:AA:707:U:H3'	2.55	0.41
10:AA:771:A:H5"	10:AA:772:A:H5'	2.01	0.41
10:AA:826:A:C6	10:AA:827:U:C4	3.08	0.41
10:AA:1000:U:H4'	10:AA:1097:A:H61	1.83	0.41
10:AA:1360:U:C6	31:AV:3:ARG:HD2	2.54	0.41
10:AA:1400:G:C6	10:AA:1401:U:C4	3.08	0.41
10:AA:1507:U:O2	10:AA:1507:U:C2'	2.68	0.41
10:AA:1541:A:C2	10:AA:1542:A:C8	3.08	0.41
10:AA:1645:C:N4	10:AA:1680:A:H61	2.16	0.41
13:AD:108:ARG:NH2	13:AD:126:ARG:HH22	2.16	0.41
14:AE:35:ARG:CZ	14:AE:251:LYS:HB2	2.49	0.41
14:AE:65:TYR:HA	14:AE:66:PRO:HD2	1.91	0.41
16:AG:41:GLN:H	16:AG:41:GLN:HG2	1.56	0.41
17:AH:11:LEU:HD12	17:AH:74:VAL:CG2	2.47	0.41
17:AH:89:TRP:HE3	17:AH:93:ILE:HD11	1.86	0.41
18:AI:95:HIS:HA	18:AI:99:VAL:HG23	2.02	0.41
19:AJ:32:GLU:OE2	19:AJ:55:ARG:NH2	2.53	0.41
20:AK:138:ASP:CG	20:AK:139:SER:H	2.17	0.41
21:AL:44:GLY:O	21:AL:45:ALA:O	2.38	0.41
21:AL:116:ILE:HD12	21:AL:116:ILE:N	2.35	0.41
23:AN:7:ARG:HD3	23:AN:7:ARG:HA	1.84	0.41
24:AO:21:LYS:HD3	24:AO:23:ARG:NH2	2.36	0.41
26:AQ:44:PRO:CG	26:AQ:47:ALA:HB2	2.45	0.41
27:AR:11:VAL:CG2	27:AR:291:VAL:HG11	2.50	0.41
27:AR:119:SER:HB3	27:AR:138:ALA:HB3	2.02	0.41
27:AR:133:ILE:HB	27:AR:145:TRP:HB2	2.02	0.41
30:AU:48:GLU:O	30:AU:50:CYS:N	2.47	0.41
32:AW:178:GLU:O	32:AW:179:SER:C	2.61	0.41
35:AZ:7:ASN:O	35:AZ:10:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:36:THR:O	2:B2:104:LEU:N	2.54	0.41
2:B2:91:TYR:HD2	2:B2:109:ILE:HD11	1.86	0.41
2:B2:117:PHE:CD1	2:B2:117:PHE:N	2.89	0.41
2:B2:176:ILE:HG22	2:B2:177:THR:H	1.85	0.41
5:B5:90:CYS:SG	5:B5:93:ASP:OD2	2.75	0.41
10:BA:68:U:H3'	10:BA:69:A:C8	2.55	0.41
10:BA:167:A:O2'	10:BA:168:U:H5'	2.19	0.41
10:BA:315:U:H2'	10:BA:316:G:C8	2.52	0.41
10:BA:321:U:H3'	10:BA:322:G:H8	1.84	0.41
10:BA:388:A:C2'	10:BA:389:G:H5'	2.51	0.41
10:BA:512:C:C4	10:BA:527:A:C5	3.08	0.41
10:BA:1032:U:O4	10:BA:1033:A:C2	2.73	0.41
10:BA:1124:A:H4'	10:BA:1719:A:N1	2.36	0.41
10:BA:1213:G:C4	10:BA:1214:A:N7	2.88	0.41
10:BA:1247:A:C2'	12:BC:144:LYS:HE2	2.49	0.41
10:BA:1401:U:C5'	10:BA:1402:C:OP2	2.68	0.41
10:BA:1507:U:O2	10:BA:1507:U:C2'	2.68	0.41
10:BA:1514:G:N2	10:BA:1540:G:O2'	2.54	0.41
10:BA:1605:A:H4'	10:BA:1606:C:O5'	2.20	0.41
12:BC:36:GLY:O	12:BC:55:ALA:HB1	2.20	0.41
14:BE:142:LYS:O	14:BE:156:PRO:HD3	2.19	0.41
14:BE:174:PRO:HD2	14:BE:177:THR:HB	2.02	0.41
15:BF:97:THR:HG21	15:BF:99:HIS:CE1	2.56	0.41
16:BG:96:HIS:HD2	16:BG:97:LEU:HD23	1.85	0.41
17:BH:14:LEU:O	17:BH:17:ALA:CB	2.61	0.41
18:BI:95:HIS:HA	18:BI:99:VAL:HG23	2.01	0.41
20:BK:105:THR:C	20:BK:107:GLN:N	2.79	0.41
22:BM:123:ARG:HH11	22:BM:123:ARG:CB	2.34	0.41
26:BQ:130:ILE:HD12	26:BQ:134:VAL:CG1	2.50	0.41
27:BR:242:ILE:O	27:BR:242:ILE:CG2	2.69	0.41
28:BS:21:LEU:HA	28:BS:24:LEU:CB	2.50	0.41
28:BS:63:ASN:HA	28:BS:66:ARG:HB2	2.02	0.41
32:BW:42:LEU:HD13	32:BW:42:LEU:C	2.44	0.41
34:BY:7:TYR:CZ	34:BY:9:LEU:HD12	2.54	0.41
35:BZ:47:VAL:CG2	35:BZ:48:GLN:N	2.83	0.41
1:A1:42:ILE:HG13	1:A1:63:GLU:OE2	2.20	0.41
2:A2:93:ALA:O	2:A2:94:THR:C	2.62	0.41
3:A3:129:ASP:O	3:A3:132:LEU:HD13	2.20	0.41
4:A4:167:VAL:HG12	4:A4:168:ARG:N	2.36	0.41
4:A4:190:PHE:CE1	4:A4:194:LEU:CD1	3.04	0.41
5:A5:57:LEU:CG	5:A5:58:ALA:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:61:ASN:C	5:A5:63:LYS:H	2.28	0.41
5:A5:84:ARG:NH1	10:AA:1126:C:OP1	2.53	0.41
6:A6:34:LYS:CB	6:A6:76:ALA:HB3	2.47	0.41
10:AA:66:A:OP1	34:AY:175:LYS:HD3	2.20	0.41
10:AA:99:A:H5'	38:AA:2059:HOH:O	2.20	0.41
10:AA:236:U:H3'	10:AA:237:U:H5"	2.01	0.41
10:AA:403:A:C2	10:AA:414:G:H1'	2.55	0.41
10:AA:430:A:HO2'	10:AA:431:U:P	2.43	0.41
10:AA:512:C:C4	10:AA:527:A:C5	3.09	0.41
10:AA:567:C:OP1	10:AA:1110:A:H3'	2.20	0.41
10:AA:573:A:N6	12:AC:148:GLN:NE2	2.63	0.41
10:AA:681:G:O2'	10:AA:682:C:H5'	2.20	0.41
10:AA:736:A:OP2	32:AW:189:ASN:OD1	2.38	0.41
10:AA:787:A:H1'	17:AH:105:THR:CG2	2.50	0.41
10:AA:989:G:H2'	10:AA:990:U:C6	2.56	0.41
10:AA:1359:C:O2	10:AA:1359:C:H3'	2.20	0.41
10:AA:1568:C:OP2	23:AN:18:LYS:NZ	2.53	0.41
10:AA:1644:C:H2'	10:AA:1645:C:H6	1.84	0.41
11:AB:164:THR:HG21	11:AB:199:TYR:HA	2.02	0.41
11:AB:172:TRP:CE3	11:AB:195:VAL:HG22	2.55	0.41
12:AC:105:VAL:HG11	12:AC:176:ARG:HG2	2.03	0.41
15:AF:83:GLN:HG2	15:AF:87:GLU:OE1	2.20	0.41
16:AG:118:GLU:OE1	16:AG:197:LYS:HE2	2.20	0.41
18:AI:58:GLY:O	18:AI:60:GLN:N	2.54	0.41
18:AI:127:GLU:HA	18:AI:128:PRO:HD2	1.88	0.41
21:AL:42:PHE:O	21:AL:43:MET:HB2	2.19	0.41
22:AM:28:THR:CG2	22:AM:58:ALA:HA	2.50	0.41
24:AO:30:MET:HE1	24:AO:38:LEU:HD12	2.03	0.41
26:AQ:21:LYS:HZ1	26:AQ:31:VAL:HG21	1.86	0.41
27:AR:100:LEU:HD11	27:AR:117:HIS:HD2	1.86	0.41
27:AR:111:TYR:CD1	27:AR:111:TYR:C	2.99	0.41
28:AS:60:LYS:CD	28:AS:64:LYS:HE3	2.49	0.41
29:AT:13:VAL:O	29:AT:14:ALA:C	2.63	0.41
34:AY:8:PRO:HB2	34:AY:9:LEU:HD23	2.02	0.41
34:AY:23:LYS:NZ	34:AY:41:LEU:HA	2.35	0.41
2:B2:69:CYS:C	2:B2:86:ILE:HD12	2.45	0.41
2:B2:200:ILE:O	2:B2:203:LEU:N	2.54	0.41
5:B5:10:ARG:HD3	5:B5:33:ASP:OD2	2.20	0.41
8:B8:43:VAL:HB	22:BM:25:LYS:HE3	2.03	0.41
8:B8:49:ASN:O	8:B8:50:VAL:C	2.64	0.41
9:B9:131:ARG:HD3	9:B9:142:LYS:CB	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B9:154:UNK:O	9:B9:157:UNK:CG	2.69	0.41
10:BA:168:U:O2	10:BA:169:G:H1'	2.20	0.41
10:BA:192:C:H2'	10:BA:193:C:O5'	2.19	0.41
10:BA:257:G:H5"	10:BA:258:A:OP1	2.21	0.41
10:BA:301:C:O2	10:BA:301:C:H2'	2.20	0.41
10:BA:320:G:N2	10:BA:321:U:H1'	2.36	0.41
10:BA:383:G:N2	10:BA:397:U:C2	2.89	0.41
10:BA:438:A:H5"	32:BW:57:ASN:OD1	2.21	0.41
10:BA:864:U:H2'	10:BA:865:A:H5'	2.01	0.41
10:BA:1135:A:H2'	10:BA:1136:G:O4'	2.20	0.41
10:BA:1241:U:H4'	10:BA:1242:G:C5'	2.49	0.41
10:BA:1299:C:H2'	10:BA:1300:G:O4'	2.19	0.41
10:BA:1731:G:C3'	10:BA:1732:U:C5'	2.97	0.41
11:BB:176:ARG:HG2	11:BB:176:ARG:NH1	2.36	0.41
12:BC:171:ILE:CG2	12:BC:173:VAL:HG23	2.51	0.41
13:BD:112:ARG:O	13:BD:116:LEU:HG	2.20	0.41
13:BD:121:SER:OG	13:BD:122:ILE:N	2.54	0.41
14:BE:231:TRP:CZ3	35:BZ:8:GLN:HB2	2.39	0.41
16:BG:71:LEU:HD23	16:BG:88:VAL:HG23	2.02	0.41
16:BG:99:THR:CG2	16:BG:101:ARG:HE	2.33	0.41
17:BH:23:LYS:H	17:BH:23:LYS:HG3	1.66	0.41
18:BI:100:ASP:C	18:BI:102:ASN:N	2.77	0.41
21:BL:5:LYS:NZ	21:BL:18:HIS:NE2	2.66	0.41
23:BN:4:LYS:HD2	23:BN:6:TRP:NE1	2.33	0.41
23:BN:45:GLN:O	23:BN:46:ALA:C	2.63	0.41
27:BR:113:ARG:O	27:BR:113:ARG:HG3	2.19	0.41
27:BR:209:PHE:HD2	27:BR:240:TRP:CH2	2.37	0.41
2:A2:192:GLU:O	2:A2:196:LEU:HB2	2.21	0.41
8:A8:38:LYS:HE2	10:AA:1507:U:O3'	2.20	0.41
9:A9:84:LYS:NZ	10:AA:1185:C:OP1	2.53	0.41
10:AA:71:U:C2'	10:AA:72:G:OP1	2.68	0.41
10:AA:100:A:HO2'	10:AA:101:A:P	2.44	0.41
10:AA:151:A:N1	10:AA:410:G:O2'	2.47	0.41
10:AA:229:A:N6	10:AA:230:A:C6	2.89	0.41
10:AA:320:G:N2	10:AA:321:U:H1'	2.34	0.41
10:AA:413:C:H4'	10:AA:414:G:H5'	2.03	0.41
10:AA:478:G:C3'	10:AA:479:G:O4'	2.68	0.41
10:AA:752:C:O5'	10:AA:752:C:H6	2.04	0.41
10:AA:761:U:C4	25:AP:7:THR:O	2.73	0.41
10:AA:909:C:H5'	10:AA:1752:U:O4	2.20	0.41
10:AA:967:U:H1'	20:AK:140:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AB:32:TYR:CD1	11:AB:32:TYR:N	2.88	0.41
12:AC:195:TYR:CD1	12:AC:195:TYR:C	2.97	0.41
12:AC:228:ARG:HD3	27:AR:207:TYR:OH	2.21	0.41
13:AD:64:PRO:HA	13:AD:69:ARG:NH1	2.35	0.41
13:AD:140:LEU:HD12	13:AD:141:VAL:N	2.34	0.41
13:AD:143:VAL:HA	13:AD:144:PRO:HD2	1.87	0.41
14:AE:27:TRP:HA	14:AE:27:TRP:CE3	2.54	0.41
14:AE:33:LEU:C	14:AE:35:ARG:N	2.77	0.41
14:AE:216:TYR:HD1	14:AE:217:TYR:CD1	2.38	0.41
14:AE:230:PHE:CB	35:AZ:13:MET:HE2	2.41	0.41
15:AF:44:TYR:O	15:AF:48:MET:N	2.44	0.41
15:AF:89:GLY:C	8:B8:28:LYS:HD3	2.46	0.41
17:AH:47:ILE:CG2	17:AH:69:ILE:HD11	2.50	0.41
21:AL:34:LEU:C	21:AL:36:SER:N	2.79	0.41
22:AM:86:LEU:HA	22:AM:99:GLN:OE1	2.20	0.41
24:AO:144:ASN:OD1	24:AO:145:ALA:N	2.54	0.41
27:AR:95:SER:OG	27:AR:96:TRP:N	2.54	0.41
27:AR:192:TRP:O	27:AR:215:ASN:HA	2.20	0.41
27:AR:287:SER:O	27:AR:288:LYS:HD3	2.20	0.41
32:AW:72:VAL:CG2	32:AW:79:ARG:O	2.69	0.41
32:AW:168:ASN:O	32:AW:169:ASN:C	2.63	0.41
5:B5:24:THR:HG21	5:B5:73:LEU:HD12	2.02	0.41
5:B5:98:ARG:NH2	10:BA:1752:U:OP1	2.53	0.41
8:B8:30:TRP:CD1	8:B8:30:TRP:O	2.74	0.41
8:B8:69:VAL:CG1	8:B8:80:ALA:HB1	2.46	0.41
10:BA:421:G:C2'	10:BA:422:G:H5"	2.50	0.41
10:BA:750:U:C6	10:BA:750:U:H3'	2.56	0.41
10:BA:752:C:H6	10:BA:752:C:O5'	2.03	0.41
10:BA:840:A:O2'	10:BA:841:A:H5"	2.20	0.41
10:BA:900:A:O2'	10:BA:901:A:H5'	2.20	0.41
10:BA:967:U:H1'	20:BK:140:THR:HG22	2.03	0.41
10:BA:990:U:O2'	10:BA:991:A:H5'	2.20	0.41
10:BA:1058:A:H2'	10:BA:1059:A:O4'	2.21	0.41
10:BA:1069:U:O4	14:BE:202:GLN:HG3	2.20	0.41
10:BA:1247:A:N6	10:BA:1409:G:C6	2.88	0.41
10:BA:1260:G:O2'	10:BA:1261:U:H5'	2.20	0.41
10:BA:1261:U:C6	10:BA:1261:U:C3'	3.03	0.41
10:BA:1314:C:H5"	27:BR:113:ARG:CZ	2.50	0.41
10:BA:1409:G:O5'	10:BA:1409:G:C8	2.73	0.41
10:BA:1725:C:O2	10:BA:1743:A:C2	2.73	0.41
12:BC:45:THR:HB	12:BC:48:LYS:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:58:PRO:HG2	14:BE:59:GLU:CD	2.45	0.41
14:BE:216:TYR:CD1	14:BE:216:TYR:C	2.99	0.41
15:BF:40:PRO:O	15:BF:41:GLU:C	2.63	0.41
15:BF:44:TYR:HB2	15:BF:61:ILE:HD13	2.01	0.41
17:BH:25:VAL:O	17:BH:62:VAL:HA	2.21	0.41
17:BH:111:LEU:HB3	17:BH:115:GLU:HB2	2.03	0.41
19:BJ:61:LEU:HD12	19:BJ:82:MET:HE2	2.02	0.41
21:BL:106:LEU:O	21:BL:107:GLY:C	2.63	0.41
23:BN:52:VAL:HG21	23:BN:54:TYR:CZ	2.56	0.41
25:BP:74:TYR:CD2	25:BP:80:LEU:HA	2.55	0.41
27:BR:97:ASP:O	27:BR:98:LYS:CB	2.68	0.41
27:BR:162:SER:HB2	27:BR:193:ASP:HB3	2.01	0.41
27:BR:168:VAL:O	27:BR:168:VAL:HG23	2.20	0.41
27:BR:187:PHE:O	27:BR:199:TRP:HD1	2.03	0.41
29:BT:50:ALA:O	29:BT:51:PRO:C	2.64	0.41
32:BW:9:LEU:HD21	32:BW:14:ALA:HB2	2.03	0.41
32:BW:89:MET:O	32:BW:124:LYS:HG3	2.21	0.41
32:BW:108:LYS:CB	32:BW:110:ARG:HE	2.25	0.41
33:BX:39:ILE:HA	33:BX:42:ASN:HD22	1.85	0.41
34:BY:87:ARG:HD3	34:BY:87:ARG:HA	1.83	0.41
34:BY:126:THR:O	34:BY:126:THR:HG22	2.20	0.41
2:A2:10:LYS:CE	10:AA:329:A:H5”	2.51	0.41
2:A2:25:ARG:CZ	10:AA:376:A:OP1	2.69	0.41
2:A2:69:CYS:C	2:A2:86:ILE:HD12	2.45	0.41
2:A2:176:ILE:HG22	2:A2:177:THR:H	1.84	0.41
5:A5:45:VAL:CG1	5:A5:49:SER:OG	2.68	0.41
9:A9:138:HIS:NE2	10:AA:1206:A:H4’	2.36	0.41
9:A9:163:UNK:O	9:A9:166:UNK:HG3	2.20	0.41
10:AA:109:U:H5’	26:AQ:66:ARG:CD	2.48	0.41
10:AA:141:A:C6	10:AA:162:A:N6	2.88	0.41
10:AA:143:C:H2’	10:AA:144:C:C6	2.54	0.41
10:AA:191:A:C4	10:AA:192:C:C5	3.09	0.41
10:AA:246:U:H2’	10:AA:246:U:O2	2.20	0.41
10:AA:316:G:C2’	10:AA:317:G:H5’	2.49	0.41
10:AA:357:A:C2	10:AA:358:A:N7	2.89	0.41
10:AA:507:G:H2’	10:AA:508:A:C5’	2.51	0.41
10:AA:508:A:N7	10:AA:509:G:C8	2.89	0.41
10:AA:1001:A:O2’	10:AA:1002:U:O4’	2.38	0.41
10:AA:1018:G:H2’	10:AA:1019:G:C5’	2.51	0.41
10:AA:1130:A:C2	10:AA:1132:A:O4’	2.74	0.41
10:AA:1217:G:O2’	10:AA:1218:C:OP2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1398:A:N1	12:AC:149:ARG:HG2	2.36	0.41
10:AA:1480:U:O2'	10:AA:1481:A:OP2	2.38	0.41
10:AA:1590:C:O2'	10:AA:1591:C:C5'	2.69	0.41
13:AD:121:SER:OG	13:AD:122:ILE:N	2.53	0.41
13:AD:123:HIS:CE1	33:AX:34:ARG:HD3	2.55	0.41
14:AE:228:PRO:C	14:AE:230:PHE:N	2.74	0.41
15:AF:26:ARG:HG3	15:AF:32:PHE:CD2	2.56	0.41
15:AF:71:ILE:CG2	15:AF:73:LEU:HD22	2.50	0.41
16:AG:72:MET:HB3	16:AG:84:CYS:SG	2.61	0.41
17:AH:55:ASP:C	17:AH:57:ARG:N	2.78	0.41
20:AK:61:LYS:CE	20:AK:76:GLN:HB3	2.51	0.41
20:AK:84:ARG:CZ	20:AK:88:LEU:HD21	2.50	0.41
23:AN:52:VAL:HG21	23:AN:54:TYR:CE2	2.56	0.41
26:AQ:32:ARG:HG2	26:AQ:33:TYR:N	2.36	0.41
26:AQ:128:ARG:HG2	26:AQ:128:ARG:NH1	2.35	0.41
27:AR:161:HIS:HB3	27:AR:197:LYS:CE	2.48	0.41
27:AR:172:PRO:HG3	27:AR:223:PRO:O	2.21	0.41
27:AR:291:VAL:HG12	27:AR:292:CYS:H	1.86	0.41
29:AT:25:HIS:CE1	29:AT:28:LYS:HZ1	2.38	0.41
29:AT:153:GLN:NE2	29:AT:153:GLN:O	2.53	0.41
32:AW:196:ILE:C	32:AW:212:VAL:HG12	2.45	0.41
35:AZ:79:ALA:HA	35:AZ:82:ALA:HB3	2.01	0.41
1:B1:65:ARG:HH21	1:B1:67:LEU:CD1	2.33	0.41
2:B2:73:PHE:CD1	2:B2:73:PHE:N	2.89	0.41
2:B2:192:GLU:O	2:B2:193:GLY:C	2.64	0.41
3:B3:178:THR:C	3:B3:179:THR:OG1	2.63	0.41
6:B6:22:LEU:C	6:B6:24:GLN:N	2.77	0.41
8:B8:81:ARG:HH22	10:BA:1505:C:H5	1.69	0.41
10:BA:151:A:N1	10:BA:410:G:O2'	2.38	0.41
10:BA:337:G:H5'	26:BQ:78:LYS:HD2	2.02	0.41
10:BA:494:A:C8	10:BA:495:C:O4'	2.73	0.41
10:BA:564:A:H8	10:BA:564:A:O5'	2.04	0.41
10:BA:616:A:O2'	10:BA:617:A:O5'	2.39	0.41
10:BA:781:C:H5'	10:BA:782:A:OP2	2.19	0.41
10:BA:787:A:C1'	17:BH:106:THR:O	2.68	0.41
10:BA:899:U:O2'	10:BA:900:A:H5'	2.20	0.41
10:BA:1064:A:C4	10:BA:1066:G:C8	3.08	0.41
10:BA:1119:G:C2	10:BA:1605:A:C2	3.08	0.41
10:BA:1253:G:O2'	10:BA:1254:U:H5'	2.20	0.41
10:BA:1345:A:H5'	10:BA:1345:A:H8	1.85	0.41
10:BA:1413:C:C4'	10:BA:1418:C:N4	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1467:U:H2'	10:BA:1468:G:C8	2.56	0.41
10:BA:1506:G:O2'	10:BA:1507:U:OP2	2.28	0.41
10:BA:1729:A:C2	10:BA:1739:G:C2	3.08	0.41
12:BC:14:PHE:CE1	19:BJ:24:THR:HG22	2.55	0.41
14:BE:228:PRO:O	14:BE:230:PHE:N	2.53	0.41
16:BG:177:LYS:O	16:BG:178:ASN:CB	2.68	0.41
17:BH:55:ASP:C	17:BH:57:ARG:H	2.29	0.41
18:BI:3:GLN:O	18:BI:4:GLN:HG3	2.20	0.41
18:BI:130:LYS:C	18:BI:132:GLY:H	2.28	0.41
22:BM:1:MET:HE3	22:BM:2:SER:O	2.20	0.41
22:BM:28:THR:CG2	22:BM:58:ALA:HA	2.49	0.41
22:BM:32:LEU:O	22:BM:35:ILE:HG13	2.20	0.41
22:BM:42:PHE:CE2	22:BM:99:GLN:CD	2.98	0.41
22:BM:99:GLN:O	22:BM:100:MET:C	2.63	0.41
26:BQ:20:LYS:H	26:BQ:20:LYS:HG3	1.61	0.41
27:BR:31:PHE:N	27:BR:31:PHE:HD1	2.18	0.41
27:BR:183:PHE:CD1	27:BR:183:PHE:O	2.73	0.41
31:BV:75:GLU:O	31:BV:76:GLU:C	2.63	0.41
32:BW:144:HIS:C	32:BW:146:SER:N	2.70	0.41
32:BW:168:ASN:O	32:BW:169:ASN:C	2.63	0.41
34:BY:5:ILE:HD13	34:BY:50:PHE:CE2	2.55	0.41
34:BY:195:LYS:HA	34:BY:198:LYS:HB2	2.03	0.41
2:A2:92:ASN:HB3	2:A2:95:ASN:O	2.21	0.41
2:A2:105:VAL:HB	2:A2:108:SER:HG	1.86	0.41
6:A6:17:ASN:HB2	10:AA:1043:U:O3'	2.21	0.41
6:A6:53:ILE:HG22	6:A6:58:SER:HA	2.02	0.41
6:A6:54:CYS:CB	6:A6:61:LEU:HD21	2.50	0.41
8:A8:68:THR:HA	8:A8:71:GLU:HG3	2.01	0.41
9:A9:83:LYS:C	9:A9:85:LYS:N	2.77	0.41
9:A9:128:HIS:CE1	10:AA:1222:U:H1'	2.53	0.41
10:AA:312:C:O2'	10:AA:313:G:P	2.78	0.41
10:AA:400:U:H5'	10:AA:1685:A:O2'	2.20	0.41
10:AA:537:A:H2'	10:AA:538:A:OP2	2.20	0.41
10:AA:551:U:H2'	10:AA:552:C:O5'	2.21	0.41
10:AA:620:U:O2'	10:AA:621:C:H5'	2.21	0.41
10:AA:638:U:O2'	10:AA:639:C:H5'	2.20	0.41
10:AA:770:G:H2'	10:AA:771:A:N7	2.26	0.41
10:AA:844:G:C2	10:AA:943:U:O4	2.73	0.41
10:AA:878:A:C5'	20:AK:39:ASP:OD2	2.69	0.41
10:AA:908:A:O3'	10:AA:1752:U:O4	2.39	0.41
10:AA:1238:U:O2	10:AA:1238:U:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1252:C:C2	10:AA:1400:G:N2	2.89	0.41
10:AA:1345:A:H5'	10:AA:1345:A:H8	1.86	0.41
10:AA:1404:G:H2'	10:AA:1405:U:O4'	2.20	0.41
10:AA:1550:U:O2'	10:AA:1551:U:H5'	2.20	0.41
11:AB:34:SER:OG	11:AB:35:HIS:N	2.54	0.41
11:AB:147:ASP:OD1	11:AB:147:ASP:O	2.38	0.41
11:AB:148:SER:HA	11:AB:149:PRO:HD3	1.91	0.41
12:AC:68:LYS:O	12:AC:69:HIS:C	2.62	0.41
12:AC:175:VAL:CG1	12:AC:188:LYS:HG2	2.50	0.41
12:AC:215:ILE:O	12:AC:216:HIS:C	2.64	0.41
13:AD:60:LEU:C	13:AD:62:LEU:H	2.28	0.41
13:AD:83:TYR:CE2	13:AD:147:MET:HB3	2.56	0.41
13:AD:130:ARG:C	13:AD:132:ARG:H	2.29	0.41
14:AE:145:TRP:CE3	14:AE:173:ALA:O	2.70	0.41
18:AI:81:TYR:O	18:AI:84:ARG:HB3	2.21	0.41
19:AJ:37:GLU:HA	19:AJ:40:SER:HB3	2.03	0.41
21:AL:53:THR:HB	21:AL:72:ARG:O	2.21	0.41
22:AM:6:GLU:O	22:AM:7:LYS:O	2.38	0.41
22:AM:81:ILE:CA	29:AT:40:TRP:CZ2	3.02	0.41
24:AO:114:LYS:O	24:AO:118:ILE:HG13	2.20	0.41
26:AQ:54:ASP:HB2	26:AQ:81:ARG:NH1	2.36	0.41
27:AR:38:ASP:OD2	27:AR:318:ASN:ND2	2.53	0.41
28:AS:117:ILE:C	28:AS:119:LYS:H	2.27	0.41
29:AT:44:SER:C	29:AT:45:VAL:HG23	2.45	0.41
30:AU:68:ILE:HG22	30:AU:69:LYS:O	2.19	0.41
32:AW:50:GLU:CD	32:AW:50:GLU:N	2.79	0.41
32:AW:143:THR:O	32:AW:146:SER:N	2.53	0.41
1:B1:46:LYS:HE3	16:BG:140:ARG:NE	2.35	0.41
1:B1:63:GLU:O	1:B1:63:GLU:CG	2.69	0.41
2:B2:15:GLY:O	10:BA:309:U:H4'	2.20	0.41
2:B2:56:VAL:CG2	10:BA:324:A:H5"	2.51	0.41
2:B2:101:THR:O	2:B2:102:LYS:C	2.64	0.41
4:B4:197:GLU:H	4:B4:197:GLU:HG2	1.50	0.41
7:B7:65:TYR:N	7:B7:65:TYR:CD1	2.89	0.41
10:BA:55:U:OP2	10:BA:450:G:H4'	2.21	0.41
10:BA:478:G:N2	10:BA:495:C:C2	2.89	0.41
10:BA:611:U:H2'	10:BA:612:U:C6	2.56	0.41
10:BA:716:G:O2'	10:BA:717:G:C5'	2.68	0.41
10:BA:892:G:O2'	10:BA:893:A:C5'	2.69	0.41
10:BA:942:U:H1'	10:BA:943:U:C5	2.55	0.41
10:BA:1166:A:H2'	10:BA:1167:C:C5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:1246:C:C2'	10:BA:1247:A:OP2	2.68	0.41
10:BA:1409:G:C2	10:BA:1410:C:C2	3.09	0.41
10:BA:1416:G:O2'	10:BA:1417:A:OP2	2.39	0.41
10:BA:1453:C:C2'	10:BA:1454:A:H5'	2.50	0.41
10:BA:1542:A:H2'	10:BA:1543:C:C5'	2.50	0.41
10:BA:1542:A:H2'	10:BA:1543:C:H5'	2.03	0.41
10:BA:1557:U:C5	10:BA:1582:G:N2	2.89	0.41
10:BA:1558:A:N7	10:BA:1583:A:N6	2.69	0.41
10:BA:1644:C:H2'	10:BA:1645:C:H6	1.84	0.41
11:BB:45:ASN:OD1	11:BB:47:GLU:N	2.54	0.41
11:BB:50:TRP:CZ2	11:BB:54:LYS:HE3	2.55	0.41
13:BD:121:SER:H	13:BD:124:HIS:HB3	1.86	0.41
13:BD:164:LEU:HD23	13:BD:164:LEU:C	2.45	0.41
14:BE:145:TRP:HE1	17:BH:97:ARG:HG2	1.84	0.41
16:BG:175:ALA:O	16:BG:186:ILE:HD11	2.20	0.41
16:BG:184:TRP:CE2	16:BG:188:LYS:HE3	2.55	0.41
16:BG:188:LYS:O	16:BG:189:LYS:C	2.63	0.41
17:BH:112:THR:O	17:BH:113:HIS:C	2.63	0.41
20:BK:54:VAL:CG1	20:BK:81:VAL:HG22	2.51	0.41
20:BK:104:GLU:O	20:BK:106:LYS:N	2.53	0.41
21:BL:69:LYS:HZ2	21:BL:92:LEU:HD23	1.86	0.41
27:BR:13:LYS:HZ3	27:BR:295:GLU:CB	2.34	0.41
27:BR:233:LYS:C	27:BR:235:LYS:H	2.27	0.41
29:BT:13:VAL:O	29:BT:14:ALA:C	2.62	0.41
30:BU:95:LYS:O	30:BU:96:LYS:HB2	2.20	0.41
32:BW:73:PHE:CZ	32:BW:78:VAL:HG22	2.55	0.41
32:BW:183:CYS:HA	32:BW:230:LEU:H	1.86	0.41
32:BW:202:LYS:HA	32:BW:208:ASP:HB3	2.03	0.41
32:BW:249:THR:C	32:BW:251:LEU:N	2.72	0.41
34:BY:11:GLY:HA3	34:BY:129:LEU:HD12	2.02	0.41
34:BY:163:ARG:O	34:BY:163:ARG:HG3	2.20	0.41
35:BZ:37:LYS:HD3	35:BZ:70:CYS:HB2	2.02	0.41
2:A2:41:GLN:O	2:A2:45:ILE:HD11	2.21	0.41
2:A2:112:ILE:HG22	2:A2:113:ASP:H	1.85	0.41
4:A4:207:THR:O	4:A4:209:ASN:N	2.54	0.41
7:A7:65:TYR:N	7:A7:65:TYR:CD1	2.88	0.41
7:A7:82:ILE:HG22	7:A7:82:ILE:O	2.20	0.41
7:A7:89:PRO:O	7:A7:92:PHE:N	2.37	0.41
7:A7:91:THR:HG21	12:AC:71:GLU:HG2	2.02	0.41
9:A9:105:ASN:ND2	9:A9:108:LYS:HE3	2.35	0.41
10:AA:3:C:C6	10:AA:3:C:C4'	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:65:C:C6	10:AA:65:C:H3'	2.56	0.41
10:AA:210:A:C5	10:AA:238:G:N2	2.88	0.41
10:AA:262:G:P	34:AY:194:TYR:HH	2.39	0.41
10:AA:297:U:OP1	26:AQ:104:ARG:CD	2.66	0.41
10:AA:343:C:C2'	10:AA:344:A:OP2	2.68	0.41
10:AA:1013:G:H2'	10:AA:1014:A:H8	1.86	0.41
10:AA:1064:A:C4	10:AA:1066:G:C8	3.09	0.41
10:AA:1075:U:O2'	10:AA:1076:U:H5'	2.21	0.41
10:AA:1202:A:N6	10:AA:1227:G:H1'	2.36	0.41
10:AA:1245:G:C2'	10:AA:1246:C:OP2	2.68	0.41
10:AA:1362:U:H2'	10:AA:1363:U:H6	1.86	0.41
10:AA:1454:A:N6	10:AA:1455:A:N6	2.69	0.41
10:AA:1487:A:OP2	12:AC:10:LYS:CD	2.68	0.41
11:AB:52:LYS:HD3	35:AZ:93:TYR:HE1	1.85	0.41
12:AC:163:THR:HG22	12:AC:164:GLY:N	2.35	0.41
14:AE:48:ILE:HG23	14:AE:53:ILE:HD12	2.02	0.41
14:AE:231:TRP:HH2	17:AH:66:ILE:HD13	1.86	0.41
15:AF:34:THR:HG23	15:AF:70:VAL:CG1	2.51	0.41
15:AF:48:MET:HE3	15:AF:71:ILE:CG1	2.49	0.41
16:AG:192:ILE:O	16:AG:196:ALA:CB	2.68	0.41
19:AJ:26:LYS:HD3	19:AJ:26:LYS:C	2.45	0.41
22:AM:1:MET:HE3	22:AM:2:SER:O	2.20	0.41
22:AM:84:TRP:CZ3	22:AM:85:LEU:HD21	2.56	0.41
23:AN:6:TRP:H	23:AN:6:TRP:CD1	2.39	0.41
24:AO:44:LYS:C	24:AO:46:GLY:N	2.78	0.41
25:AP:123:LEU:H	25:AP:123:LEU:HD12	1.84	0.41
26:AQ:57:CYS:SG	26:AQ:58:PRO:HD2	2.61	0.41
27:AR:74:GLY:O	27:AR:75:HIS:C	2.62	0.41
27:AR:82:LEU:HD23	27:AR:93:SER:HA	2.03	0.41
29:AT:32:LEU:HB2	29:AT:33:SER:H	1.71	0.41
29:AT:76:ILE:O	29:AT:80:LYS:HB2	2.21	0.41
32:AW:185:ILE:HA	32:AW:226:ASN:O	2.21	0.41
5:B5:61:ASN:C	5:B5:63:LYS:H	2.28	0.41
8:B8:92:LEU:HG	8:B8:93:VAL:HG23	2.01	0.41
10:BA:122:A:N7	34:BY:201:ARG:CZ	2.83	0.41
10:BA:155:U:H5"	34:BY:83:CYS:CA	2.51	0.41
10:BA:155:U:H5"	34:BY:83:CYS:HA	2.02	0.41
10:BA:363:G:H2'	10:BA:364:G:O5'	2.20	0.41
10:BA:433:G:C2	10:BA:456:A:N3	2.89	0.41
10:BA:604:G:C2'	10:BA:605:U:OP2	2.68	0.41
10:BA:834:A:O2'	10:BA:835:U:OP1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:841:A:H2'	10:BA:841:A:N3	2.35	0.41
10:BA:1033:A:C2	10:BA:1034:A:N3	2.89	0.41
10:BA:1121:C:O2'	10:BA:1718:A:N6	2.54	0.41
10:BA:1302:G:H2'	10:BA:1303:A:H5'	2.02	0.41
10:BA:1452:G:OP2	29:BT:66:ARG:NH1	2.53	0.41
10:BA:1480:U:O2'	10:BA:1481:A:C8	2.73	0.41
11:BB:141:ILE:HG23	11:BB:155:VAL:HB	2.02	0.41
11:BB:164:THR:O	11:BB:165:GLU:C	2.63	0.41
12:BC:214:ILE:HD12	31:BV:40:GLN:OE1	2.21	0.41
13:BD:37:LYS:O	33:BX:37:LYS:HG3	2.21	0.41
13:BD:60:LEU:C	13:BD:62:LEU:H	2.29	0.41
13:BD:106:GLU:HG3	13:BD:111:THR:CG2	2.50	0.41
13:BD:110:GLN:HE22	13:BD:125:SER:CB	2.34	0.41
14:BE:228:PRO:HD2	17:BH:99:PHE:CE2	2.56	0.41
16:BG:16:LYS:HE3	16:BG:93:GLU:OE1	2.21	0.41
16:BG:17:TRP:NE1	16:BG:103:PRO:HD2	2.36	0.41
16:BG:52:GLN:O	16:BG:52:GLN:HG3	2.20	0.41
17:BH:30:VAL:O	17:BH:59:LYS:HE2	2.21	0.41
17:BH:38:LEU:HA	17:BH:38:LEU:HD23	1.70	0.41
18:BI:64:ASN:C	18:BI:65:LEU:HD23	2.46	0.41
19:BJ:28:LEU:O	19:BJ:29:LYS:C	2.63	0.41
20:BK:82:VAL:HG12	20:BK:86:LYS:HE3	2.02	0.41
20:BK:100:LYS:O	20:BK:104:GLU:HB2	2.20	0.41
23:BN:46:ALA:N	23:BN:47:PRO:HD2	2.35	0.41
24:BO:48:THR:HG22	24:BO:50:SER:H	1.85	0.41
25:BP:18:ARG:NH2	25:BP:20:GLN:HE21	2.18	0.41
26:BQ:107:PRO:HG2	26:BQ:107:PRO:O	2.21	0.41
27:BR:241:ASP:HB2	27:BR:249:GLN:NE2	2.36	0.41
28:BS:29:ASN:O	28:BS:31:GLU:HG2	2.19	0.41
30:BU:69:LYS:CB	30:BU:124:LEU:HD13	2.43	0.41
32:BW:210:CYS:SG	32:BW:227:ILE:CD1	3.09	0.41
35:BZ:87:LEU:O	35:BZ:92:LEU:N	2.53	0.41
2:A2:77:SER:HA	26:AQ:23:LEU:HD11	2.03	0.41
2:A2:195:GLU:CB	26:AQ:10:GLN:NE2	2.73	0.41
3:A3:62:LEU:HD21	3:A3:64:TYR:HE1	1.85	0.41
3:A3:141:ILE:HG22	3:A3:142:ARG:N	2.35	0.41
3:A3:142:ARG:NH2	17:AH:51:GLU:HB2	2.35	0.41
4:A4:31:TRP:CE3	4:A4:48:THR:O	2.74	0.41
4:A4:37:PRO:C	4:A4:38:ILE:O	2.61	0.41
4:A4:43:LYS:CD	4:A4:44:SER:H	2.30	0.41
4:A4:154:GLN:HA	4:A4:158:SER:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:30:VAL:HG11	5:A5:35:ALA:CB	2.27	0.41
7:A7:48:SER:O	7:A7:52:ARG:HG3	2.20	0.41
7:A7:50:LYS:CG	7:A7:51:ASP:N	2.83	0.41
7:A7:89:PRO:HG2	7:A7:92:PHE:CG	2.56	0.41
7:A7:100:ILE:CD1	12:AC:62:ILE:HD11	2.51	0.41
8:A8:31:THR:HG23	15:BF:42:PHE:CA	2.51	0.41
8:A8:38:LYS:NZ	10:AA:1507:U:H3'	2.36	0.41
9:A9:146:UNK:O	9:A9:149:UNK:HG3	2.18	0.41
10:AA:16:G:N2	10:AA:17:C:C2	2.89	0.41
10:AA:71:U:O2'	10:AA:72:G:OP2	2.38	0.41
10:AA:77:G:HO2'	10:AA:78:C:H5'	1.83	0.41
10:AA:190:G:H2'	10:AA:191:A:C8	2.52	0.41
10:AA:280:U:H2'	10:AA:281:A:C8	2.56	0.41
10:AA:296:C:H2'	10:AA:297:U:C6	2.56	0.41
10:AA:459:G:O2'	10:AA:461:C:OP1	2.38	0.41
10:AA:476:U:H2'	10:AA:477:G:H8	1.84	0.41
10:AA:535:A:O2'	10:AA:536:C:OP1	2.35	0.41
10:AA:538:A:O2'	10:AA:539:U:O5'	2.38	0.41
10:AA:730:A:C2	10:AA:785:G:N2	2.89	0.41
10:AA:754:A:H2'	10:AA:755:G:N7	2.32	0.41
10:AA:843:A:C6	10:AA:942:U:C4	3.09	0.41
10:AA:893:A:H3'	10:AA:894:U:H6	1.86	0.41
10:AA:996:U:C4	10:AA:997:A:N7	2.89	0.41
10:AA:1033:A:O2'	10:AA:1034:A:C5'	2.66	0.41
10:AA:1102:U:H2'	10:AA:1103:G:C5'	2.49	0.41
10:AA:1180:A:O2'	10:AA:1242:G:OP2	2.35	0.41
10:AA:1191:A:N6	10:AA:1237:G:H1'	2.36	0.41
10:AA:1292:U:O2'	10:AA:1293:A:H5'	2.21	0.41
10:AA:1442:A:H2	10:AA:1445:G:N3	2.18	0.41
10:AA:1475:G:C6	10:AA:1476:A:N6	2.88	0.41
10:AA:1582:G:C5'	16:AG:81:LYS:HB3	2.51	0.41
10:AA:1587:U:H4'	10:AA:1588:G:H8	1.86	0.41
10:AA:1601:G:H4'	10:AA:1747:A:OP2	2.20	0.41
11:AB:5:ARG:CD	11:AB:187:LYS:HZ1	2.34	0.41
11:AB:179:LYS:HD3	11:AB:184:GLU:CD	2.46	0.41
13:AD:110:GLN:HE22	13:AD:125:SER:CB	2.34	0.41
13:AD:151:ASP:O	13:AD:154:LYS:HE3	2.21	0.41
13:AD:171:ARG:HG2	13:AD:175:LYS:HZ2	1.85	0.41
14:AE:184:ILE:HG22	14:AE:212:LEU:CD2	2.50	0.41
14:AE:239:LEU:O	14:AE:241:PHE:N	2.54	0.41
15:AF:40:PRO:O	15:AF:41:GLU:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AF:48:MET:O	15:AF:52:LYS:HG3	2.21	0.41
15:AF:71:ILE:HG22	15:AF:73:LEU:CD2	2.50	0.41
15:AF:86:SER:O	15:AF:87:GLU:C	2.64	0.41
16:AG:39:LYS:HE2	18:AI:113:GLN:O	2.21	0.41
16:AG:67:LEU:HD22	16:AG:107:PHE:CE1	2.56	0.41
16:AG:158:PHE:C	16:AG:160:SER:N	2.79	0.41
17:AH:25:VAL:O	17:AH:62:VAL:HA	2.20	0.41
17:AH:25:VAL:HG12	17:AH:26:LEU:N	2.36	0.41
17:AH:88:LYS:O	17:AH:92:ASN:HB2	2.19	0.41
18:AI:120:VAL:CG1	18:AI:121:ALA:N	2.80	0.41
18:AI:130:LYS:C	18:AI:132:GLY:H	2.29	0.41
20:AK:105:THR:C	20:AK:107:GLN:N	2.79	0.41
21:AL:29:PHE:CZ	21:AL:33:LEU:CD1	3.04	0.41
22:AM:32:LEU:O	22:AM:35:ILE:HG13	2.20	0.41
23:AN:45:GLN:O	23:AN:46:ALA:C	2.64	0.41
25:AP:120:ILE:HG22	25:AP:124:LEU:HD12	2.03	0.41
26:AQ:31:VAL:CG1	26:AQ:32:ARG:N	2.83	0.41
26:AQ:48:ILE:H	26:AQ:48:ILE:HG13	1.61	0.41
26:AQ:56:LYS:HD3	26:AQ:130:ILE:CG2	2.51	0.41
27:AR:26:SER:O	27:AR:44:SER:HA	2.21	0.41
27:AR:28:VAL:HB	27:AR:43:ILE:HG22	2.03	0.41
27:AR:219:LEU:HA	27:AR:229:ALA:O	2.21	0.41
29:AT:33:SER:O	29:AT:34:ILE:C	2.63	0.41
29:AT:124:ALA:CA	29:AT:127:LYS:HE2	2.48	0.41
30:AU:32:VAL:HG12	30:AU:36:ILE:CD1	2.51	0.41
30:AU:98:LYS:HA	30:AU:98:LYS:HD3	1.87	0.41
30:AU:116:GLU:O	30:AU:120:ILE:HG13	2.20	0.41
32:AW:161:THR:CB	32:AW:229:VAL:HB	2.51	0.41
34:AY:76:LEU:HA	34:AY:93:LYS:O	2.21	0.41
34:AY:136:LYS:HG3	34:AY:178:LYS:O	2.20	0.41
34:AY:157:LYS:O	34:AY:160:VAL:HG23	2.20	0.41
2:B2:35:MET:HE1	2:B2:37:LYS:HG3	2.02	0.41
2:B2:41:GLN:O	2:B2:45:ILE:HD11	2.20	0.41
2:B2:69:CYS:O	2:B2:86:ILE:CD1	2.69	0.41
3:B3:132:LEU:HA	3:B3:132:LEU:HD12	1.86	0.41
3:B3:170:ILE:O	3:B3:171:THR:C	2.63	0.41
4:B4:31:TRP:CZ2	4:B4:49:LEU:HD13	2.56	0.41
4:B4:122:THR:HB	4:B4:146:THR:OG1	2.21	0.41
4:B4:134:ASP:OD1	4:B4:134:ASP:N	2.54	0.41
5:B5:4:LYS:HE3	5:B5:94:ARG:NH1	2.36	0.41
6:B6:9:ILE:H	6:B6:9:ILE:HG13	1.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:9:LYS:HG2	7:B7:13:TYR:CE1	2.55	0.41
7:B7:25:LYS:HG3	7:B7:27:ASP:H	1.86	0.41
7:B7:47:ARG:HA	7:B7:50:LYS:HE2	2.02	0.41
7:B7:94:ALA:HB3	12:BC:70:LYS:NZ	2.36	0.41
9:B9:105:ASN:ND2	9:B9:108:LYS:HE3	2.36	0.41
10:BA:29:G:C4'	21:BL:130:SER:HB3	2.51	0.41
10:BA:55:U:O2'	10:BA:56:G:P	2.79	0.41
10:BA:135:A:H2	34:BY:183:ILE:HG23	1.86	0.41
10:BA:181:G:N2	10:BA:194:G:N3	2.69	0.41
10:BA:238:G:N2	10:BA:239:A:C1'	2.84	0.41
10:BA:289:U:H2'	10:BA:290:A:O4'	2.20	0.41
10:BA:292:G:C3'	10:BA:293:U:H6	2.30	0.41
10:BA:421:G:H2'	10:BA:422:G:H5"	2.03	0.41
10:BA:494:A:H2	33:BX:48:HIS:N	2.19	0.41
10:BA:747:G:P	13:BD:78:ARG:NH2	2.94	0.41
10:BA:775:C:H2'	10:BA:776:A:O4'	2.21	0.41
10:BA:799:G:C6	10:BA:835:U:O2	2.73	0.41
10:BA:842:U:C6	10:BA:842:U:H3'	2.56	0.41
10:BA:900:A:H2'	10:BA:901:A:H8	1.85	0.41
10:BA:1123:G:C2	10:BA:1721:G:H8	2.39	0.41
10:BA:1158:U:H5'	10:BA:1181:C:H1'	2.03	0.41
10:BA:1199:G:H21	30:BU:27:LYS:HB2	1.85	0.41
10:BA:1284:A:H62	10:BA:1285:A:N6	2.19	0.41
10:BA:1290:G:N2	10:BA:1291:U:C2	2.89	0.41
10:BA:1358:A:HO2'	10:BA:1359:C:P	2.42	0.41
10:BA:1376:A:O2'	10:BA:1377:A:H5'	2.21	0.41
10:BA:1408:U:H1'	12:BC:184:ILE:CD1	2.51	0.41
10:BA:1507:U:H3'	10:BA:1507:U:O2	2.21	0.41
10:BA:1535:A:C2'	10:BA:1536:U:H5'	2.50	0.41
10:BA:1583:A:C2	10:BA:1584:U:O4	2.74	0.41
11:BB:81:ALA:HB2	11:BB:168:SER:HB3	2.03	0.41
11:BB:179:LYS:HD3	11:BB:184:GLU:CD	2.46	0.41
12:BC:198:ASN:C	12:BC:200:ALA:H	2.29	0.41
13:BD:11:THR:O	13:BD:47:MET:HG2	2.21	0.41
13:BD:12:TYR:O	13:BD:47:MET:HE2	2.21	0.41
14:BE:90:GLN:OE1	14:BE:95:GLN:HG2	2.20	0.41
14:BE:188:VAL:HB	14:BE:215:THR:HG21	2.02	0.41
15:BF:26:ARG:HB2	15:BF:32:PHE:CD1	2.55	0.41
15:BF:36:GLU:HB3	15:BF:70:VAL:CG2	2.41	0.41
16:BG:72:MET:HB3	16:BG:84:CYS:SG	2.61	0.41
19:BJ:104:PHE:HB3	19:BJ:105:ARG:H	1.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BK:101:GLY:HA3	20:BK:133:THR:HG22	2.02	0.41
21:BL:131:LEU:O	21:BL:134:LEU:N	2.53	0.41
22:BM:81:ILE:N	29:BT:40:TRP:CZ2	2.89	0.41
24:BO:101:ARG:NH1	24:BO:145:ALA:HA	2.29	0.41
25:BP:56:TYR:O	25:BP:57:GLY:O	2.39	0.41
25:BP:61:GLN:O	25:BP:62:TYR:C	2.63	0.41
26:BQ:17:LEU:HD13	26:BQ:21:LYS:HE2	2.02	0.41
26:BQ:18:ASN:HB3	26:BQ:19:SER:H	1.46	0.41
26:BQ:43:THR:HA	26:BQ:44:PRO:HD2	1.84	0.41
26:BQ:87:ARG:CD	26:BQ:104:ARG:CZ	2.98	0.41
26:BQ:88:ASP:HB3	26:BQ:154:PHE:CE2	2.56	0.41
26:BQ:96:TYR:O	26:BQ:98:ARG:HG2	2.21	0.41
27:BR:192:TRP:C	27:BR:194:GLY:H	2.29	0.41
30:BU:20:ASN:O	30:BU:20:ASN:ND2	2.53	0.41
30:BU:103:LEU:HD23	30:BU:103:LEU:N	2.36	0.41
30:BU:121:GLU:HA	30:BU:124:LEU:HD11	2.03	0.41
31:BV:10:LYS:HD3	31:BV:53:PHE:CZ	2.55	0.41
31:BV:98:ILE:HD12	31:BV:118:VAL:HG22	2.03	0.41
32:BW:15:PRO:HD3	32:BW:39:ARG:NH1	2.36	0.41
32:BW:102:ARG:HB2	32:BW:114:LYS:HB3	2.03	0.41
34:BY:68:MET:HA	34:BY:100:CYS:HB3	2.03	0.41
35:BZ:34:TRP:CD1	35:BZ:82:ALA:CB	2.98	0.41
2:A2:193:GLY:C	2:A2:197:GLU:OE2	2.64	0.41
4:A4:141:PHE:N	4:A4:141:PHE:CD1	2.88	0.41
5:A5:77:ILE:HD12	5:A5:77:ILE:H	1.86	0.41
6:A6:25:ALA:HB1	6:A6:26:PRO:HD2	2.02	0.41
7:A7:68:LEU:HD12	7:A7:69:ASN:H	1.86	0.41
7:A7:103:GLU:HB2	12:AC:202:LYS:NZ	2.36	0.41
10:AA:143:C:O5'	10:AA:143:C:H6	2.04	0.41
10:AA:210:A:N7	10:AA:238:G:N2	2.69	0.41
10:AA:224:G:C2	10:AA:234:G:C2	3.09	0.41
10:AA:318:U:C5'	10:AA:319:A:OP2	2.69	0.41
10:AA:384:C:O2'	10:AA:385:C:C5'	2.68	0.41
10:AA:558:G:O2'	10:AA:559:C:OP2	2.33	0.41
10:AA:561:A:C2	10:AA:577:C:H1'	2.55	0.41
10:AA:1123:G:H21	10:AA:1721:G:H8	1.69	0.41
10:AA:1254:U:H2'	10:AA:1255:U:C6	2.56	0.41
10:AA:1302:G:H2'	10:AA:1303:A:H5'	2.02	0.41
10:AA:1573:G:C2	29:AT:91:ASN:HB3	2.55	0.41
10:AA:1636:C:O2'	10:AA:1637:U:H5'	2.19	0.41
10:AA:1719:A:H1'	10:AA:1747:A:C5	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1750:A:N3	10:AA:1750:A:O4'	2.53	0.41
11:AB:5:ARG:CB	11:AB:187:LYS:HZ1	2.33	0.41
11:AB:6:LYS:HE2	31:AV:111:TYR:OH	2.21	0.41
11:AB:45:ASN:OD1	11:AB:47:GLU:N	2.53	0.41
11:AB:76:ILE:HG13	11:AB:77:TYR:CD1	2.56	0.41
12:AC:214:ILE:HD12	31:AV:40:GLN:OE1	2.21	0.41
14:AE:157:GLN:OE1	14:AE:157:GLN:N	2.52	0.41
14:AE:174:PRO:HD2	14:AE:177:THR:HB	2.03	0.41
14:AE:226:LEU:HD13	35:AZ:38:LEU:HD21	2.03	0.41
18:AI:14:ARG:H	18:AI:85:GLN:NE2	2.19	0.41
20:AK:115:ALA:O	20:AK:116:LEU:C	2.63	0.41
23:AN:10:PRO:O	23:AN:12:ASN:N	2.48	0.41
25:AP:124:LEU:C	25:AP:126:GLU:H	2.29	0.41
27:AR:31:PHE:N	27:AR:31:PHE:HD1	2.19	0.41
27:AR:237:LEU:HD12	27:AR:272:VAL:HG22	2.02	0.41
27:AR:237:LEU:HD12	27:AR:272:VAL:CG2	2.51	0.41
28:AS:86:ARG:HD2	28:AS:102:TYR:O	2.21	0.41
29:AT:114:LEU:HB3	29:AT:116:ILE:HD11	2.02	0.41
32:AW:37:LYS:H	32:AW:37:LYS:HG2	1.68	0.41
34:AY:11:GLY:HA3	34:AY:129:LEU:HD12	2.02	0.41
34:AY:165:PHE:C	34:AY:165:PHE:CD1	2.98	0.41
35:AZ:84:GLU:O	35:AZ:88:ARG:HG2	2.20	0.41
1:B1:14:VAL:HG23	1:B1:51:VAL:HG22	2.01	0.41
2:B2:29:LYS:HA	2:B2:29:LYS:HD3	1.91	0.41
2:B2:77:SER:CA	26:BQ:23:LEU:HD11	2.50	0.41
2:B2:179:ARG:HG2	10:BA:321:U:OP1	2.21	0.41
3:B3:161:ASP:HB2	3:B3:162:PHE:H	1.75	0.41
4:B4:167:VAL:HG12	4:B4:168:ARG:N	2.35	0.41
7:B7:35:THR:CG2	7:B7:37:VAL:HG23	2.51	0.41
7:B7:82:ILE:O	7:B7:82:ILE:HG22	2.20	0.41
7:B7:90:LYS:HB2	12:BC:74:GLN:NE2	2.34	0.41
7:B7:91:THR:CG2	12:BC:71:GLU:HG2	2.50	0.41
10:BA:12:U:H2'	10:BA:13:C:H6	1.85	0.41
10:BA:125:U:C4'	10:BA:126:A:C5'	2.91	0.41
10:BA:156:U:H3'	10:BA:157:G:C8	2.57	0.41
10:BA:246:U:C4'	10:BA:247:C:OP2	2.69	0.41
10:BA:301:C:H2'	10:BA:302:U:H5'	2.03	0.41
10:BA:472:A:O2'	10:BA:473:A:C5'	2.68	0.41
10:BA:514:G:H4'	25:BP:34:SER:HB3	2.03	0.41
10:BA:623:U:C2'	10:BA:624:A:H5'	2.50	0.41
10:BA:662:U:H2'	10:BA:663:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:887:U:C5'	10:BA:887:U:C6	3.03	0.41
10:BA:948:A:C5	10:BA:949:A:C8	3.09	0.41
10:BA:953:C:O2	10:BA:953:C:H2'	2.21	0.41
10:BA:1013:G:H2'	10:BA:1014:A:H8	1.84	0.41
10:BA:1174:A:N1	10:BA:1428:C:OP1	2.54	0.41
10:BA:1277:U:O2	10:BA:1277:U:C2'	2.69	0.41
10:BA:1486:U:O2'	12:BC:9:ASN:N	2.54	0.41
10:BA:1563:C:H3'	10:BA:1563:C:C6	2.56	0.41
10:BA:1717:C:C2'	10:BA:1718:A:H5"	2.49	0.41
11:BB:115:PRO:HG2	11:BB:138:ILE:CD1	2.50	0.41
11:BB:122:ASP:HA	11:BB:123:PRO:HD3	1.94	0.41
12:BC:9:ASN:HB2	12:BC:12:LYS:HB3	2.02	0.41
12:BC:216:HIS:HA	12:BC:217:PRO:HD3	1.92	0.41
13:BD:15:PRO:HG3	13:BD:23:ARG:NH1	2.36	0.41
13:BD:45:VAL:HG21	13:BD:105:MET:CE	2.42	0.41
14:BE:185:PRO:O	14:BE:186:LYS:C	2.63	0.41
16:BG:70:THR:HG21	16:BG:147:TYR:HA	2.02	0.41
16:BG:95:ILE:HG21	16:BG:103:PRO:CB	2.48	0.41
20:BK:115:ALA:O	20:BK:116:LEU:C	2.63	0.41
20:BK:140:THR:O	20:BK:141:ARG:C	2.64	0.41
25:BP:82:LYS:CD	25:BP:83:TYR:HE1	2.34	0.41
25:BP:123:LEU:H	25:BP:123:LEU:HD12	1.85	0.41
28:BS:35:SER:C	28:BS:37:GLU:H	2.29	0.41
32:BW:47:LEU:HD12	32:BW:113:LEU:HD11	2.02	0.41
32:BW:88:LEU:HD11	32:BW:104:LEU:HD23	2.02	0.41
32:BW:101:PHE:HD2	32:BW:113:LEU:HB3	1.86	0.41
32:BW:254:ARG:HH11	32:BW:254:ARG:CB	2.32	0.41
33:BX:44:ARG:CG	33:BX:45:TYR:N	2.83	0.41
34:BY:8:PRO:O	34:BY:10:THR:N	2.54	0.41
34:BY:12:ALA:HB1	34:BY:124:LEU:HD23	2.03	0.41
2:A2:33:ILE:HG23	10:AA:321:U:O2'	2.22	0.40
2:A2:93:ALA:CA	26:AQ:9:TYR:HD2	2.33	0.40
3:A3:130:LEU:HB2	3:A3:170:ILE:HD13	2.03	0.40
5:A5:17:HIS:ND1	5:A5:18:THR:N	2.69	0.40
6:A6:51:THR:HA	6:A6:62:CYS:O	2.21	0.40
8:A8:27:LYS:CG	10:AA:1509:U:H5	2.32	0.40
8:A8:69:VAL:HG11	8:A8:80:ALA:CB	2.48	0.40
10:AA:150:A:C2	10:AA:151:A:H1'	2.56	0.40
10:AA:303:A:N3	10:AA:305:C:C2	2.89	0.40
10:AA:318:U:H5'	10:AA:319:A:P	2.60	0.40
10:AA:341:G:H5"	10:AA:342:U:O3'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:668:U:OP1	17:AH:119:ARG:NH2	2.44	0.40
10:AA:799:G:C6	10:AA:835:U:O2	2.73	0.40
10:AA:956:A:N6	10:AA:957:A:C2	2.89	0.40
10:AA:978:C:O2	10:AA:981:A:C8	2.74	0.40
10:AA:986:G:N1	10:AA:987:U:C4	2.89	0.40
10:AA:1012:C:C2'	10:AA:1013:G:H5'	2.51	0.40
10:AA:1086:G:H2'	10:AA:1087:U:OP2	2.20	0.40
10:AA:1112:A:H2'	10:AA:1113:G:O4'	2.20	0.40
10:AA:1316:A:C6	10:AA:1317:A:N6	2.90	0.40
10:AA:1333:A:N7	10:AA:1334:U:O4	2.53	0.40
10:AA:1449:G:C6	10:AA:1502:A:C6	3.09	0.40
10:AA:1459:G:C8	10:AA:1487:A:N6	2.89	0.40
10:AA:1603:A:C8	10:AA:1717:C:H1'	2.56	0.40
12:AC:180:PHE:C	12:AC:182:GLN:N	2.78	0.40
13:AD:112:ARG:O	13:AD:116:LEU:HG	2.21	0.40
13:AD:113:VAL:HG21	13:AD:129:ILE:CG2	2.51	0.40
14:AE:27:TRP:CE3	14:AE:28:GLN:N	2.89	0.40
14:AE:188:VAL:HB	14:AE:215:THR:HG21	2.02	0.40
17:AH:30:VAL:HG12	17:AH:31:SER:N	2.35	0.40
18:AI:16:LYS:HA	18:AI:125:ARG:HH11	1.86	0.40
19:AJ:55:ARG:HB3	19:AJ:87:ARG:NH1	2.36	0.40
20:AK:67:GLU:C	20:AK:69:SER:N	2.78	0.40
22:AM:109:MET:HE2	22:AM:109:MET:N	2.36	0.40
23:AN:20:CYS:SG	23:AN:37:THR:HA	2.61	0.40
25:AP:72:LEU:HD13	25:AP:74:TYR:HE1	1.86	0.40
26:AQ:17:LEU:O	26:AQ:20:LYS:HE2	2.21	0.40
26:AQ:107:PRO:O	26:AQ:107:PRO:HG2	2.21	0.40
27:AR:122:TYR:HE2	27:AR:138:ALA:HB2	1.86	0.40
27:AR:127:SER:O	27:AR:128:PRO:C	2.63	0.40
27:AR:187:PHE:CE1	27:AR:199:TRP:HB2	2.57	0.40
27:AR:235:LYS:CE	27:AR:256:SER:H	2.34	0.40
27:AR:267:LEU:O	27:AR:268:GLN:CB	2.66	0.40
29:AT:73:HIS:HA	29:AT:129:SER:OG	2.21	0.40
2:B2:11:ARG:HB2	10:BA:314:A:H5"	2.04	0.40
2:B2:133:LYS:C	2:B2:135:ARG:H	2.29	0.40
6:B6:63:LYS:HD3	6:B6:63:LYS:HA	1.92	0.40
7:B7:30:GLY:C	7:B7:39:ASN:HD22	2.27	0.40
7:B7:32:HIS:HD2	7:B7:35:THR:OG1	2.04	0.40
8:B8:47:LYS:HA	8:B8:50:VAL:HG23	2.03	0.40
10:BA:26:U:C2'	10:BA:27:A:C5'	2.89	0.40
10:BA:45:A:OP1	10:BA:45:A:C8	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:62:G:N1	10:BA:63:U:C2	2.90	0.40
10:BA:64:U:O2'	10:BA:65:C:P	2.79	0.40
10:BA:210:A:C5	10:BA:238:G:N2	2.89	0.40
10:BA:210:A:O3'	10:BA:239:A:H2	2.04	0.40
10:BA:246:U:H2'	26:BQ:62:ASN:HD22	1.85	0.40
10:BA:399:C:O2'	10:BA:1685:A:H1'	2.21	0.40
10:BA:403:A:C2	10:BA:414:G:H1'	2.56	0.40
10:BA:477:G:C2'	10:BA:478:G:C5'	2.99	0.40
10:BA:730:A:C2	10:BA:785:G:N2	2.88	0.40
10:BA:873:G:O6	10:BA:895:U:O4	2.39	0.40
10:BA:893:A:C8	10:BA:894:U:C5	3.08	0.40
10:BA:1055:G:C5	10:BA:1056:A:N7	2.89	0.40
10:BA:1162:C:O2'	10:BA:1163:U:C5'	2.68	0.40
10:BA:1189:A:H2'	10:BA:1190:G:OP1	2.21	0.40
10:BA:1343:G:H2'	10:BA:1344:U:OP1	2.20	0.40
10:BA:1390:G:C4'	23:BN:55:ARG:HB3	2.51	0.40
10:BA:1421:G:O2'	23:BN:6:TRP:CB	2.69	0.40
10:BA:1449:G:C6	10:BA:1502:A:C6	3.09	0.40
10:BA:1586:A:N3	10:BA:1586:A:H2'	2.35	0.40
10:BA:1598:U:O2'	10:BA:1599:U:H5'	2.21	0.40
10:BA:1652:A:H5'	10:BA:1653:C:OP2	2.20	0.40
11:BB:148:SER:HA	11:BB:149:PRO:HD3	1.87	0.40
11:BB:182:ARG:HD3	11:BB:184:GLU:OE2	2.20	0.40
12:BC:10:LYS:NZ	19:BJ:86:LYS:NZ	2.69	0.40
12:BC:195:TYR:CD1	12:BC:195:TYR:C	2.95	0.40
14:BE:53:ILE:HA	14:BE:54:PRO:HD2	1.86	0.40
15:BF:47:ILE:N	15:BF:47:ILE:HD12	2.36	0.40
16:BG:45:PRO:O	16:BG:65:GLU:OE1	2.38	0.40
17:BH:87:GLU:O	17:BH:88:LYS:C	2.63	0.40
18:BI:120:VAL:CG1	18:BI:121:ALA:N	2.81	0.40
22:BM:25:LYS:O	22:BM:25:LYS:HG3	2.21	0.40
27:BR:276:GLN:HB3	27:BR:294:ILE:HD13	2.03	0.40
27:BR:289:ALA:H	27:BR:290:PRO:HD3	1.87	0.40
30:BU:68:ILE:HG22	30:BU:69:LYS:O	2.21	0.40
32:BW:196:ILE:C	32:BW:212:VAL:HG12	2.46	0.40
34:BY:3:PHE:CE1	34:BY:18:ILE:HD12	2.56	0.40
34:BY:167:THR:C	34:BY:169:LYS:H	2.29	0.40
35:BZ:14:THR:O	35:BZ:14:THR:HG22	2.20	0.40
2:A2:31:ARG:HB3	2:A2:32:PRO:HD2	2.03	0.40
3:A3:76:ALA:O	3:A3:77:ALA:C	2.64	0.40
5:A5:59:PHE:HB2	20:AK:127:GLY:HA2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:80:A:H2'	10:AA:81:A:C8	2.56	0.40
10:AA:238:G:N2	10:AA:239:A:C1'	2.84	0.40
10:AA:321:U:H3'	10:AA:322:G:H8	1.86	0.40
10:AA:543:A:C2	10:AA:550:G:C5	3.09	0.40
10:AA:551:U:C2'	10:AA:552:C:O5'	2.68	0.40
10:AA:713:U:O5'	10:AA:713:U:H6	2.04	0.40
10:AA:763:U:O3'	10:AA:764:U:H6	2.04	0.40
10:AA:892:G:O2'	10:AA:893:A:C5'	2.69	0.40
10:AA:1000:U:C4'	10:AA:1097:A:H61	2.33	0.40
10:AA:1058:A:H5"	14:AE:164:GLY:O	2.20	0.40
10:AA:1443:A:C5	10:AA:1507:U:H5	2.38	0.40
10:AA:1566:G:H2'	10:AA:1567:U:O4'	2.21	0.40
11:AB:164:THR:O	11:AB:165:GLU:C	2.64	0.40
12:AC:9:ASN:HB2	12:AC:12:LYS:HB3	2.02	0.40
14:AE:65:TYR:CD2	14:AE:77:LEU:HB2	2.56	0.40
16:AG:138:PRO:HG2	16:AG:139:MET:H	1.86	0.40
17:AH:30:VAL:HG11	17:AH:35:LEU:HD21	2.02	0.40
20:AK:42:ILE:HD11	20:AK:115:ALA:CB	2.51	0.40
20:AK:110:PRO:CG	20:AK:111:GLY:H	2.35	0.40
22:AM:17:ILE:O	22:AM:18:LEU:C	2.63	0.40
22:AM:135:GLY:O	22:AM:137:HIS:N	2.55	0.40
26:AQ:33:TYR:CE2	26:AQ:35:LYS:HB2	2.56	0.40
27:AR:102:LEU:O	27:AR:110:THR:HA	2.21	0.40
28:AS:14:ARG:HB3	28:AS:114:PHE:CE2	2.56	0.40
28:AS:60:LYS:HZ3	28:AS:64:LYS:HE3	1.85	0.40
29:AT:116:ILE:HA	29:AT:136:GLY:CA	2.50	0.40
30:AU:103:LEU:HD23	30:AU:103:LEU:N	2.37	0.40
31:AV:17:ILE:HA	31:AV:24:LEU:HD11	2.02	0.40
32:AW:42:LEU:HD11	32:AW:47:LEU:N	2.37	0.40
32:AW:61:VAL:C	32:AW:63:LEU:N	2.78	0.40
32:AW:183:CYS:HA	32:AW:230:LEU:H	1.86	0.40
32:AW:210:CYS:SG	32:AW:227:ILE:CD1	3.09	0.40
3:B3:52:LYS:CD	3:B3:53:THR:H	2.34	0.40
4:B4:31:TRP:NE1	20:BK:16:TYR:O	2.54	0.40
5:B5:44:MET:HG3	5:B5:66:ILE:CG2	2.51	0.40
5:B5:89:ARG:HH21	10:BA:1749:C:H5"	1.85	0.40
7:B7:17:LEU:HD12	7:B7:17:LEU:HA	1.89	0.40
7:B7:61:TRP:CD1	7:B7:61:TRP:N	2.89	0.40
9:B9:148:UNK:HA	9:B9:151:UNK:CG	2.51	0.40
10:BA:30:C:O2	10:BA:540:U:H4'	2.21	0.40
10:BA:122:A:N7	34:BY:201:ARG:NH1	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:430:A:H4'	10:BA:431:U:OP1	2.22	0.40
10:BA:548:A:C5	13:BD:19:TYR:CE2	3.10	0.40
10:BA:549:A:N3	10:BA:584:C:H1'	2.36	0.40
10:BA:660:U:H2'	10:BA:661:G:C8	2.56	0.40
10:BA:707:U:H5'	10:BA:707:U:H6	1.86	0.40
10:BA:713:U:O5'	10:BA:713:U:H6	2.04	0.40
10:BA:840:A:OP2	24:BO:66:ARG:NH2	2.45	0.40
10:BA:1122:G:C6	10:BA:1124:A:N6	2.90	0.40
10:BA:1141:G:O5'	10:BA:1142:G:OP2	2.39	0.40
10:BA:1216:A:C2	10:BA:1218:C:H1'	2.55	0.40
10:BA:1448:U:OP1	29:BT:47:ARG:HB3	2.20	0.40
10:BA:1582:G:C5'	16:BG:81:LYS:HB3	2.51	0.40
10:BA:1599:U:C2	10:BA:1600:U:C6	3.09	0.40
10:BA:1674:A:C6	10:BA:1675:A:N7	2.89	0.40
11:BB:59:VAL:CG1	11:BB:141:ILE:HD11	2.51	0.40
12:BC:175:VAL:CG1	12:BC:188:LYS:HG2	2.51	0.40
12:BC:184:ILE:HG22	12:BC:185:MET:N	2.36	0.40
14:BE:24:LYS:C	14:BE:26:ASP:H	2.29	0.40
14:BE:112:ILE:HD11	14:BE:188:VAL:O	2.21	0.40
22:BM:14:ILE:HG21	22:BM:22:ILE:HG23	2.01	0.40
22:BM:25:LYS:HZ2	22:BM:57:ARG:HB3	1.85	0.40
22:BM:130:GLY:C	22:BM:131:LEU:HG	2.46	0.40
24:BO:21:LYS:HD3	24:BO:23:ARG:NH2	2.35	0.40
25:BP:61:GLN:O	25:BP:63:GLY:N	2.55	0.40
27:BR:46:SER:OG	27:BR:47:ARG:N	2.53	0.40
27:BR:163:ASP:HB3	27:BR:192:TRP:HB2	2.03	0.40
27:BR:181:GLN:HB3	27:BR:182:PRO:CD	2.47	0.40
27:BR:257:THR:O	27:BR:274:THR:HA	2.22	0.40
28:BS:20:GLU:O	28:BS:24:LEU:HB2	2.22	0.40
29:BT:43:THR:HG22	29:BT:44:SER:N	2.37	0.40
30:BU:47:ALA:HB3	30:BU:101:SER:HA	2.03	0.40
30:BU:96:LYS:CE	30:BU:98:LYS:CE	2.99	0.40
31:BV:111:TYR:O	31:BV:112:GLN:C	2.64	0.40
34:BY:64:LYS:HZ1	34:BY:81:HIS:HB3	1.86	0.40
3:A3:148:THR:HB	3:A3:150:PHE:CE1	2.56	0.40
4:A4:150:SER:C	4:A4:152:GLY:H	2.29	0.40
10:AA:19:A:H2'	10:AA:20:G:O4'	2.22	0.40
10:AA:41:U:O2'	10:AA:42:A:P	2.80	0.40
10:AA:70:U:H5'	34:AY:173:ARG:NH1	2.36	0.40
10:AA:132:U:O2'	10:AA:135:A:H5'	2.22	0.40
10:AA:306:A:C1'	10:AA:344:A:H61	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:380:G:O2'	10:AA:381:G:P	2.80	0.40
10:AA:398:A:O4'	10:AA:1643:A:H4'	2.21	0.40
10:AA:525:U:H2'	10:AA:526:U:O4'	2.21	0.40
10:AA:847:A:O2'	10:AA:848:C:H5'	2.22	0.40
10:AA:881:U:O2	10:AA:883:A:OP2	2.39	0.40
10:AA:1001:A:O2'	10:AA:1002:U:C6	2.52	0.40
10:AA:1174:A:N1	10:AA:1428:C:OP1	2.54	0.40
10:AA:1246:C:C2'	10:AA:1247:A:OP2	2.70	0.40
10:AA:1279:U:C5	10:AA:1280:G:N7	2.90	0.40
10:AA:1286:U:C2'	10:AA:1287:U:OP2	2.69	0.40
10:AA:1422:C:O2'	10:AA:1423:U:H5'	2.21	0.40
10:AA:1474:G:O2'	10:AA:1475:G:H5'	2.20	0.40
10:AA:1541:A:N3	10:AA:1542:A:C8	2.90	0.40
10:AA:1556:G:C3'	18:AI:125:ARG:O	2.56	0.40
10:AA:1568:C:OP1	23:AN:15:LYS:NZ	2.51	0.40
10:AA:1605:A:O2'	10:AA:1606:C:P	2.77	0.40
12:AC:9:ASN:O	12:AC:12:LYS:N	2.55	0.40
13:AD:14:THR:HG23	13:AD:15:PRO:HD2	2.03	0.40
14:AE:41:LYS:O	14:AE:42:ILE:HG23	2.21	0.40
14:AE:180:VAL:HG23	14:AE:198:TYR:CA	2.37	0.40
14:AE:220:ALA:O	14:AE:222:THR:N	2.54	0.40
15:AF:58:ASN:HB3	15:AF:74:ASN:HD21	1.87	0.40
16:AG:29:PHE:CD1	16:AG:29:PHE:N	2.90	0.40
16:AG:76:ARG:H	16:AG:76:ARG:HG2	1.68	0.40
17:AH:31:SER:OG	17:AH:34:VAL:HG23	2.21	0.40
18:AI:100:ASP:C	18:AI:102:ASN:N	2.77	0.40
19:AJ:14:VAL:HG11	19:AJ:16:LYS:HE3	2.03	0.40
19:AJ:108:PRO:O	19:AJ:109:GLY:C	2.64	0.40
20:AK:116:LEU:HD23	20:AK:116:LEU:O	2.21	0.40
23:AN:4:LYS:HD2	23:AN:6:TRP:NE1	2.34	0.40
26:AQ:75:ILE:CD1	26:AQ:86:ARG:HB2	2.51	0.40
27:AR:134:LEU:HD11	27:AR:203:PHE:HZ	1.86	0.40
27:AR:136:ALA:HB1	27:AR:165:VAL:CG1	2.51	0.40
27:AR:187:PHE:O	27:AR:199:TRP:HD1	2.05	0.40
2:B2:124:HIS:ND1	2:B2:152:LYS:HD3	2.36	0.40
2:B2:140:ASN:HD21	10:BA:182:U:H3	1.66	0.40
6:B6:63:LYS:HG2	6:B6:72:GLN:NE2	2.37	0.40
8:B8:56:ASN:OD1	8:B8:115:LYS:NZ	2.54	0.40
9:B9:152:UNK:C	9:B9:155:UNK:HG3	2.52	0.40
10:BA:201:A:N3	10:BA:259:U:C4	2.89	0.40
10:BA:210:A:H3'	10:BA:239:A:H2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:483:C:H6	10:BA:483:C:O5'	2.04	0.40
10:BA:537:A:O2'	10:BA:538:A:P	2.75	0.40
10:BA:844:G:C2	10:BA:943:U:O4	2.75	0.40
10:BA:851:U:O2'	10:BA:852:U:H5'	2.21	0.40
10:BA:876:A:H1'	10:BA:877:G:O4'	2.20	0.40
10:BA:986:G:O2'	10:BA:987:U:H5'	2.21	0.40
10:BA:1035:A:N3	10:BA:1035:A:H2'	2.36	0.40
10:BA:1156:A:C2	10:BA:1426:G:O4'	2.74	0.40
10:BA:1252:C:O2'	10:BA:1253:G:H5'	2.21	0.40
10:BA:1429:G:OP2	10:BA:1430:C:C5	2.67	0.40
10:BA:1498:U:H2'	10:BA:1499:A:H5'	2.02	0.40
10:BA:1537:C:H2'	10:BA:1538:U:O4'	2.21	0.40
10:BA:1692:C:H2'	10:BA:1693:A:C8	2.56	0.40
11:BB:5:ARG:O	11:BB:9:ASP:OD1	2.40	0.40
14:BE:144:TYR:HA	14:BE:153:HIS:CE1	2.56	0.40
16:BG:59:THR:O	16:BG:61:CYS:N	2.54	0.40
16:BG:62:PRO:O	16:BG:65:GLU:N	2.47	0.40
16:BG:158:PHE:C	16:BG:160:SER:N	2.79	0.40
16:BG:184:TRP:CE3	16:BG:187:ARG:HD2	2.56	0.40
17:BH:87:GLU:CD	17:BH:87:GLU:N	2.60	0.40
22:BM:17:ILE:O	22:BM:18:LEU:C	2.64	0.40
24:BO:48:THR:O	24:BO:52:ILE:HG13	2.21	0.40
27:BR:216:VAL:HG11	27:BR:230:THR:HG23	2.03	0.40
27:BR:238:LEU:HD23	27:BR:240:TRP:HZ2	1.87	0.40
28:BS:117:ILE:C	28:BS:119:LYS:H	2.30	0.40
30:BU:13:ALA:HB2	30:BU:82:TYR:CE1	2.57	0.40
35:BZ:73:VAL:CG1	35:BZ:78:GLU:HB3	2.51	0.40
2:A2:105:VAL:HG13	10:AA:320:G:O3'	2.21	0.40
3:A3:157:GLN:OE1	3:A3:157:GLN:HA	2.20	0.40
6:A6:57:CYS:O	6:A6:58:SER:CB	2.64	0.40
7:A7:14:LYS:CG	7:A7:80:LEU:HD11	2.51	0.40
7:A7:35:THR:CG2	7:A7:37:VAL:HG23	2.51	0.40
10:AA:133:A:H2'	10:AA:170:C:O2	2.22	0.40
10:AA:150:A:C6	10:AA:409:G:O6	2.74	0.40
10:AA:192:C:H2'	10:AA:193:C:O5'	2.21	0.40
10:AA:272:U:C2'	10:AA:273:A:H5"	2.52	0.40
10:AA:625:G:O2'	10:AA:626:U:H5'	2.21	0.40
10:AA:732:U:H2'	10:AA:733:G:C8	2.57	0.40
10:AA:1135:A:H2'	10:AA:1136:G:O4'	2.20	0.40
10:AA:1250:G:H2'	10:AA:1251:C:O4'	2.22	0.40
10:AA:1265:U:C4'	11:AB:108:GLN:NE2	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:1446:A:H2'	10:AA:1447:C:C6	2.55	0.40
10:AA:1538:U:OP1	22:AM:42:PHE:HB2	2.21	0.40
10:AA:1731:G:H2'	10:AA:1732:U:C5'	2.41	0.40
11:AB:99:TRP:CZ3	11:AB:132:GLU:OE2	2.75	0.40
11:AB:192:GLU:OE1	11:AB:192:GLU:N	2.50	0.40
12:AC:74:GLN:HG2	12:AC:77:GLN:NE2	2.36	0.40
12:AC:209:ILE:HB	12:AC:212:ASN:HB2	2.02	0.40
13:AD:106:GLU:HG3	13:AD:111:THR:CG2	2.50	0.40
13:AD:178:LYS:O	13:AD:179:LYS:C	2.65	0.40
16:AG:34:ALA:CB	16:AG:63:ILE:H	2.29	0.40
16:AG:145:ALA:O	16:AG:149:ILE:HG13	2.21	0.40
17:AH:106:THR:HB	17:AH:108:TYR:H	1.85	0.40
20:AK:27:VAL:HG23	20:AK:91:ASN:OD1	2.22	0.40
22:AM:25:LYS:O	22:AM:25:LYS:HG3	2.22	0.40
22:AM:69:ILE:O	22:AM:73:ILE:HG13	2.21	0.40
22:AM:102:SER:O	22:AM:106:ASP:OD2	2.39	0.40
26:AQ:32:ARG:CG	26:AQ:32:ARG:HH11	2.35	0.40
26:AQ:32:ARG:HD2	26:AQ:48:ILE:O	2.20	0.40
26:AQ:96:TYR:O	26:AQ:98:ARG:HG2	2.21	0.40
27:AR:97:ASP:O	27:AR:98:LYS:CB	2.70	0.40
27:AR:334:ARG:HB3	27:AR:336:PHE:HE1	1.86	0.40
28:AS:19:GLU:O	28:AS:20:GLU:C	2.64	0.40
31:AV:5:ARG:NH1	31:AV:53:PHE:HB2	2.37	0.40
31:AV:43:SER:HB3	31:AV:46:LEU:CB	2.52	0.40
31:AV:80:ARG:HA	31:AV:83:ASP:OD1	2.22	0.40
32:AW:65:LEU:HB3	32:AW:80:ARG:HA	2.04	0.40
32:AW:89:MET:HG3	32:AW:228:PHE:HE2	1.76	0.40
32:AW:95:GLU:C	32:AW:97:THR:H	2.30	0.40
1:B1:6:THR:O	1:B1:6:THR:HG22	2.21	0.40
3:B3:148:THR:HB	3:B3:150:PHE:CE1	2.56	0.40
5:B5:57:LEU:CG	5:B5:58:ALA:H	2.34	0.40
6:B6:19:PHE:HA	6:B6:24:GLN:HG3	2.03	0.40
7:B7:57:GLU:HA	7:B7:65:TYR:O	2.21	0.40
7:B7:94:ALA:HB1	7:B7:96:ASN:OD1	2.22	0.40
10:BA:157:G:H2'	10:BA:158:G:H8	1.85	0.40
10:BA:287:U:H2'	10:BA:288:C:O4'	2.22	0.40
10:BA:303:A:C2'	10:BA:304:U:OP2	2.70	0.40
10:BA:564:A:C2	10:BA:568:G:O6	2.74	0.40
10:BA:600:A:O2'	10:BA:603:U:OP1	2.33	0.40
10:BA:655:C:OP2	10:BA:655:C:O4'	2.40	0.40
10:BA:871:U:C4	10:BA:872:A:N7	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:876:A:C4'	10:BA:877:G:O5'	2.63	0.40
10:BA:906:U:H2'	10:BA:907:A:OP2	2.20	0.40
10:BA:1263:G:OP1	14:BE:96:ARG:NH2	2.55	0.40
10:BA:1437:G:OP1	18:BI:141:GLN:HG2	2.21	0.40
10:BA:1526:G:N3	10:BA:1526:G:O4'	2.54	0.40
10:BA:1623:A:C2'	10:BA:1624:G:OP2	2.69	0.40
11:BB:85:PHE:CG	11:BB:171:TYR:HD1	2.39	0.40
11:BB:172:TRP:CE3	11:BB:195:VAL:HG22	2.55	0.40
13:BD:69:ARG:O	13:BD:70:LEU:C	2.64	0.40
17:BH:97:ARG:HA	17:BH:97:ARG:HD2	1.90	0.40
17:BH:100:GLY:C	17:BH:113:HIS:HD2	2.30	0.40
19:BJ:26:LYS:HD3	19:BJ:26:LYS:C	2.47	0.40
20:BK:84:ARG:CZ	20:BK:88:LEU:HD21	2.52	0.40
21:BL:6:PRO:HG3	21:BL:14:LYS:HG2	2.03	0.40
22:BM:26:ARG:CG	22:BM:27:ILE:N	2.72	0.40
22:BM:42:PHE:HE2	22:BM:99:GLN:CD	2.29	0.40
24:BO:44:LYS:C	24:BO:46:GLY:N	2.78	0.40
26:BQ:10:GLN:C	26:BQ:11:LYS:HG2	2.47	0.40
26:BQ:75:ILE:HG22	26:BQ:76:SER:N	2.36	0.40
27:BR:235:LYS:HG3	27:BR:256:SER:O	2.22	0.40
29:BT:108:LEU:HD13	29:BT:130:ARG:CG	2.49	0.40
30:BU:55:TYR:O	30:BU:56:VAL:C	2.64	0.40
31:BV:80:ARG:HA	31:BV:83:ASP:OD1	2.22	0.40
32:BW:42:LEU:HD13	32:BW:43:PRO:O	2.21	0.40
34:BY:93:LYS:HG3	34:BY:94:ARG:N	2.36	0.40
34:BY:149:LYS:C	34:BY:151:ASP:H	2.30	0.40
34:BY:216:LEU:HA	34:BY:216:LEU:HD23	1.84	0.40
35:BZ:67:VAL:HG21	35:BZ:83:LEU:HD11	2.03	0.40
35:BZ:79:ALA:HA	35:BZ:82:ALA:HB3	2.02	0.40
2:A2:198:PHE:O	2:A2:201:ARG:HB2	2.22	0.40
3:A3:48:PHE:CE2	3:A3:62:LEU:HD23	2.57	0.40
4:A4:31:TRP:O	4:A4:32:TYR:CD1	2.75	0.40
4:A4:50:VAL:HG12	4:A4:51:THR:H	1.83	0.40
4:A4:169:ALA:HB1	4:A4:210:ILE:HD13	2.03	0.40
8:A8:63:VAL:HG21	16:AG:97:LEU:HB2	2.03	0.40
8:A8:68:THR:O	8:A8:71:GLU:HB2	2.21	0.40
8:A8:69:VAL:CG1	8:A8:80:ALA:HB1	2.46	0.40
10:AA:289:U:H2'	10:AA:290:A:O4'	2.21	0.40
10:AA:317:G:OP1	26:AQ:56:LYS:NZ	2.47	0.40
10:AA:344:A:H3'	10:AA:345:C:H6	1.87	0.40
10:AA:477:G:H2'	10:AA:478:G:C5'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AA:731:C:O2'	10:AA:732:U:H5'	2.21	0.40
10:AA:830:G:O2'	10:AA:831:G:H5'	2.22	0.40
10:AA:1340:G:N2	10:AA:1341:U:C1'	2.80	0.40
10:AA:1369:A:C5	10:AA:1370:U:O4	2.74	0.40
10:AA:1375:C:H2'	10:AA:1376:A:C8	2.57	0.40
10:AA:1507:U:H1'	10:AA:1508:G:C2	2.57	0.40
10:AA:1517:A:OP1	22:AM:132:LYS:HA	2.21	0.40
10:AA:1748:U:O2'	10:AA:1749:C:H5'	2.22	0.40
11:AB:13:LEU:CA	11:AB:169:MET:HE1	2.51	0.40
11:AB:47:GLU:CB	31:AV:109:LEU:HD11	2.40	0.40
12:AC:40:ILE:HG23	12:AC:51:ILE:HG23	2.03	0.40
12:AC:108:MET:CE	12:AC:125:ILE:HD13	2.51	0.40
12:AC:196:GLU:HG2	12:AC:203:PHE:CB	2.52	0.40
12:AC:198:ASN:C	12:AC:200:ALA:H	2.30	0.40
14:AE:179:ILE:HG21	14:AE:186:LYS:HG3	2.02	0.40
16:AG:45:PRO:O	16:AG:65:GLU:OE1	2.40	0.40
17:AH:23:LYS:H	17:AH:23:LYS:HG3	1.64	0.40
19:AJ:21:ILE:HB	19:AJ:89:ILE:HB	2.04	0.40
25:AP:108:LEU:O	25:AP:109:LYS:C	2.65	0.40
25:AP:129:GLY:O	25:AP:130:ASP:CB	2.68	0.40
27:AR:209:PHE:CD2	27:AR:240:TRP:CZ3	3.10	0.40
27:AR:337:SER:C	27:AR:338:PHE:CD1	3.00	0.40
28:AS:31:GLU:HG2	28:AS:31:GLU:H	1.57	0.40
28:AS:31:GLU:CG	28:AS:32:LYS:H	2.29	0.40
28:AS:35:SER:C	28:AS:37:GLU:N	2.77	0.40
32:AW:187:GLN:HA	32:AW:191:ILE:CG2	2.51	0.40
4:B4:202:LYS:HD3	4:B4:202:LYS:HA	1.73	0.40
5:B5:89:ARG:HD3	10:BA:1750:A:C6	2.56	0.40
7:B7:45:LEU:HD23	7:B7:45:LEU:HA	1.91	0.40
8:B8:29:LYS:HZ3	10:BA:1509:U:C5'	2.33	0.40
9:B9:148:UNK:HA	9:B9:151:UNK:HG3	2.03	0.40
10:BA:1:A:N1	14:BE:186:LYS:NZ	2.70	0.40
10:BA:10:G:C2	10:BA:1118:U:O2	2.74	0.40
10:BA:51:U:H2'	10:BA:52:G:C8	2.57	0.40
10:BA:57:U:O2'	10:BA:443:A:N3	2.47	0.40
10:BA:68:U:H3'	10:BA:69:A:H8	1.85	0.40
10:BA:236:U:C3'	10:BA:237:U:C5'	2.99	0.40
10:BA:241:A:O2'	10:BA:242:U:H5'	2.21	0.40
10:BA:262:G:P	34:BY:194:TYR:HH	2.41	0.40
10:BA:294:U:O2'	10:BA:295:U:C5'	2.67	0.40
10:BA:459:G:O2'	10:BA:461:C:OP1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BA:487:C:OP1	10:BA:488:G:N7	2.55	0.40
10:BA:508:A:C3'	10:BA:509:G:H5'	2.52	0.40
10:BA:589:G:C6	10:BA:590:C:C4	3.10	0.40
10:BA:854:G:H2'	10:BA:921:C:O2	2.22	0.40
10:BA:1081:G:H2'	10:BA:1082:G:H8	1.85	0.40
10:BA:1404:G:H2'	10:BA:1405:U:O4'	2.21	0.40
10:BA:1439:U:H4'	29:BT:90:GLY:O	2.22	0.40
10:BA:1617:G:N2	10:BA:1710:G:C4	2.89	0.40
10:BA:1636:C:O2'	10:BA:1637:U:H5'	2.21	0.40
11:BB:119:ILE:N	11:BB:119:ILE:CD1	2.84	0.40
12:BC:9:ASN:C	12:BC:11:LYS:H	2.29	0.40
12:BC:56:THR:HG21	12:BC:97:LYS:HG3	2.04	0.40
12:BC:215:ILE:HA	31:BV:39:ALA:HB1	2.03	0.40
13:BD:80:MET:HE1	13:BD:96:VAL:HG13	2.00	0.40
14:BE:140:VAL:HG11	14:BE:219:LEU:HG	2.02	0.40
19:BJ:85:TYR:CD1	19:BJ:85:TYR:N	2.88	0.40
20:BK:17:GLY:O	20:BK:18:PRO:C	2.63	0.40
22:BM:59:GLY:C	22:BM:61:LEU:H	2.30	0.40
25:BP:83:TYR:O	25:BP:84:GLU:C	2.65	0.40
25:BP:101:THR:O	25:BP:102:ARG:C	2.64	0.40
25:BP:124:LEU:C	25:BP:126:GLU:H	2.29	0.40
27:BR:337:SER:C	27:BR:338:PHE:CD1	2.99	0.40
32:BW:26:ILE:O	32:BW:26:ILE:HG22	2.22	0.40
34:BY:23:LYS:HZ3	34:BY:41:LEU:HA	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A1	65/68 (96%)	45 (69%)	11 (17%)	9 (14%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	B1	65/68 (96%)	44 (68%)	12 (18%)	9 (14%)	0 3
2	A2	205/208 (99%)	147 (72%)	38 (18%)	20 (10%)	0 8
2	B2	205/208 (99%)	146 (71%)	39 (19%)	20 (10%)	0 8
3	A3	194/197 (98%)	159 (82%)	25 (13%)	10 (5%)	1 18
3	B3	194/197 (98%)	159 (82%)	24 (12%)	11 (6%)	1 17
4	A4	213/265 (80%)	161 (76%)	33 (16%)	19 (9%)	0 10
4	B4	213/265 (80%)	161 (76%)	34 (16%)	18 (8%)	0 10
5	A5	96/119 (81%)	66 (69%)	20 (21%)	10 (10%)	0 7
5	B5	96/119 (81%)	65 (68%)	21 (22%)	10 (10%)	0 7
6	A6	78/81 (96%)	57 (73%)	15 (19%)	6 (8%)	1 12
6	B6	78/81 (96%)	57 (73%)	15 (19%)	6 (8%)	1 12
7	A7	102/162 (63%)	78 (76%)	17 (17%)	7 (7%)	1 14
7	B7	102/162 (63%)	78 (76%)	17 (17%)	7 (7%)	1 14
8	A8	91/143 (64%)	71 (78%)	13 (14%)	7 (8%)	1 12
8	B8	91/143 (64%)	71 (78%)	13 (14%)	7 (8%)	1 12
9	A9	72/189 (38%)	50 (69%)	17 (24%)	5 (7%)	1 14
9	B9	72/189 (38%)	50 (69%)	17 (24%)	5 (7%)	1 14
11	AB	202/241 (84%)	168 (83%)	28 (14%)	6 (3%)	3 26
11	BB	202/241 (84%)	167 (83%)	28 (14%)	7 (4%)	3 23
12	AC	227/243 (93%)	177 (78%)	31 (14%)	19 (8%)	0 10
12	BC	227/243 (93%)	176 (78%)	32 (14%)	19 (8%)	0 10
13	AD	177/181 (98%)	132 (75%)	36 (20%)	9 (5%)	1 18
13	BD	177/181 (98%)	130 (73%)	38 (22%)	9 (5%)	1 18
14	AE	228/296 (77%)	170 (75%)	40 (18%)	18 (8%)	1 12
14	BE	228/296 (77%)	172 (75%)	39 (17%)	17 (8%)	1 13
15	AF	87/101 (86%)	70 (80%)	12 (14%)	5 (6%)	1 17
15	BF	87/101 (86%)	70 (80%)	12 (14%)	5 (6%)	1 17
16	AG	190/200 (95%)	141 (74%)	33 (17%)	16 (8%)	0 10
16	BG	190/200 (95%)	142 (75%)	31 (16%)	17 (9%)	0 10
17	AH	127/130 (98%)	98 (77%)	24 (19%)	5 (4%)	2 22
17	BH	127/130 (98%)	98 (77%)	26 (20%)	3 (2%)	4 30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
18	AI	141/145 (97%)	111 (79%)	25 (18%)	5 (4%)	3 23
18	BI	141/145 (97%)	110 (78%)	26 (18%)	5 (4%)	3 23
19	AJ	103/120 (86%)	89 (86%)	6 (6%)	8 (8%)	1 12
19	BJ	103/120 (86%)	89 (86%)	6 (6%)	8 (8%)	1 12
20	AK	138/151 (91%)	96 (70%)	28 (20%)	14 (10%)	0 8
20	BK	138/151 (91%)	95 (69%)	27 (20%)	16 (12%)	0 5
21	AL	139/142 (98%)	106 (76%)	17 (12%)	16 (12%)	0 5
21	BL	139/142 (98%)	106 (76%)	18 (13%)	15 (11%)	0 6
22	AM	152/155 (98%)	109 (72%)	22 (14%)	21 (14%)	0 3
22	BM	152/155 (98%)	110 (72%)	21 (14%)	21 (14%)	0 3
23	AN	51/55 (93%)	30 (59%)	11 (22%)	10 (20%)	0 1
23	BN	51/55 (93%)	31 (61%)	11 (22%)	9 (18%)	0 2
24	AO	148/153 (97%)	112 (76%)	20 (14%)	16 (11%)	0 6
24	BO	148/153 (97%)	113 (76%)	19 (13%)	16 (11%)	0 6
25	AP	146/149 (98%)	115 (79%)	20 (14%)	11 (8%)	1 13
25	BP	146/149 (98%)	115 (79%)	20 (14%)	11 (8%)	1 13
26	AQ	155/157 (99%)	115 (74%)	26 (17%)	14 (9%)	0 10
26	BQ	155/157 (99%)	112 (72%)	27 (17%)	16 (10%)	0 7
27	AR	336/343 (98%)	255 (76%)	48 (14%)	33 (10%)	0 8
27	BR	336/343 (98%)	256 (76%)	48 (14%)	32 (10%)	0 9
28	AS	123/144 (85%)	91 (74%)	25 (20%)	7 (6%)	1 17
28	BS	123/144 (85%)	90 (73%)	25 (20%)	8 (6%)	1 15
29	AT	148/155 (96%)	114 (77%)	17 (12%)	17 (12%)	0 5
29	BT	148/155 (96%)	113 (76%)	20 (14%)	15 (10%)	0 8
30	AU	122/126 (97%)	91 (75%)	20 (16%)	11 (9%)	0 10
30	BU	122/126 (97%)	89 (73%)	22 (18%)	11 (9%)	0 10
31	AV	119/130 (92%)	94 (79%)	16 (13%)	9 (8%)	1 13
31	BV	119/130 (92%)	96 (81%)	14 (12%)	9 (8%)	1 13
32	AW	257/260 (99%)	193 (75%)	40 (16%)	24 (9%)	0 10
32	BW	257/260 (99%)	195 (76%)	38 (15%)	24 (9%)	0 10
33	AX	66/80 (82%)	48 (73%)	12 (18%)	6 (9%)	0 10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
33	BX	66/80 (82%)	48 (73%)	12 (18%)	6 (9%)	0 10
34	AY	233/293 (80%)	188 (81%)	31 (13%)	14 (6%)	1 16
34	BY	233/293 (80%)	187 (80%)	32 (14%)	14 (6%)	1 16
35	AZ	95/97 (98%)	70 (74%)	13 (14%)	12 (13%)	0 4
35	BZ	95/97 (98%)	69 (73%)	14 (15%)	12 (13%)	0 4
All	All	10052/11358 (88%)	7627 (76%)	1588 (16%)	837 (8%)	0 11

All (837) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A1	20	SER
1	A1	35	LYS
1	A1	37	GLU
1	A1	59	GLU
1	A1	63	GLU
2	A2	13	ALA
2	A2	15	GLY
2	A2	44	THR
2	A2	57	ARG
2	A2	132	LYS
2	A2	135	ARG
2	A2	160	GLU
3	A3	132	LEU
3	A3	178	THR
3	A3	179	THR
4	A4	37	PRO
4	A4	43	LYS
4	A4	52	LYS
4	A4	59	ALA
4	A4	77	ASP
4	A4	78	ASN
4	A4	96	GLY
5	A5	47	PRO
5	A5	59	PHE
5	A5	60	GLU
6	A6	18	LYS
6	A6	22	LEU
6	A6	58	SER
7	A7	96	ASN
7	A7	103	GLU

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Mol	Chain	Res	Type
7	A7	104	GLU
8	A8	31	THR
8	A8	91	LYS
8	A8	100	GLY
9	A9	73	LYS
9	A9	106	ASN
11	AB	189	GLU
12	AC	5	THR
12	AC	83	SER
12	AC	148	GLN
12	AC	205	VAL
12	AC	212	ASN
12	AC	229	THR
13	AD	9	SER
13	AD	133	HIS
13	AD	168	ARG
14	AE	43	SER
14	AE	149	ILE
14	AE	204	CYS
14	AE	248	LEU
15	AF	66	GLU
15	AF	76	ASP
16	AG	56	PHE
16	AG	60	GLN
16	AG	63	ILE
16	AG	75	GLY
16	AG	158	PHE
17	AH	76	SER
18	AI	5	LYS
19	AJ	67	LYS
19	AJ	74	SER
19	AJ	109	GLY
20	AK	70	SER
20	AK	100	LYS
20	AK	124	MET
20	AK	142	ARG
21	AL	45	ALA
21	AL	62	GLN
21	AL	87	PRO
21	AL	88	MET
21	AL	89	ASP
21	AL	107	GLY

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Mol	Chain	Res	Type
21	AL	108	ARG
21	AL	117	PRO
22	AM	7	LYS
22	AM	8	GLU
22	AM	57	ARG
22	AM	136	GLN
22	AM	141	SER
22	AM	142	GLY
22	AM	148	CYS
23	AN	31	THR
24	AO	5	GLN
24	AO	16	SER
24	AO	27	TRP
24	AO	61	GLY
24	AO	85	GLN
24	AO	145	ALA
25	AP	29	ASP
25	AP	57	GLY
25	AP	148	ALA
26	AQ	10	GLN
26	AQ	16	PHE
26	AQ	17	LEU
27	AR	75	HIS
27	AR	106	ARG
27	AR	130	ASN
27	AR	180	VAL
27	AR	201	THR
27	AR	267	LEU
27	AR	287	SER
27	AR	303	GLU
27	AR	308	LYS
28	AS	15	GLY
29	AT	41	THR
29	AT	93	ARG
30	AU	55	TYR
30	AU	74	PRO
30	AU	88	ALA
30	AU	101	SER
31	AV	72	LYS
31	AV	83	ASP
31	AV	114	ILE
32	AW	15	PRO

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Mol	Chain	Res	Type
32	AW	24	GLY
32	AW	96	LYS
32	AW	106	ASP
32	AW	204	GLN
32	AW	206	SER
32	AW	207	PHE
32	AW	215	ALA
33	AX	8	LEU
33	AX	64	ALA
34	AY	8	PRO
34	AY	9	LEU
34	AY	43	ASP
34	AY	87	ARG
34	AY	181	ARG
35	AZ	3	SER
35	AZ	16	LEU
35	AZ	26	ALA
35	AZ	40	PHE
35	AZ	56	GLU
35	AZ	79	ALA
1	B1	20	SER
1	B1	35	LYS
1	B1	37	GLU
1	B1	59	GLU
1	B1	63	GLU
2	B2	13	ALA
2	B2	15	GLY
2	B2	44	THR
2	B2	57	ARG
2	B2	132	LYS
2	B2	135	ARG
2	B2	160	GLU
3	B3	132	LEU
3	B3	178	THR
3	B3	179	THR
4	B4	37	PRO
4	B4	43	LYS
4	B4	52	LYS
4	B4	59	ALA
4	B4	77	ASP
4	B4	78	ASN
4	B4	96	GLY

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Mol	Chain	Res	Type
5	B5	47	PRO
5	B5	59	PHE
5	B5	60	GLU
6	B6	16	LYS
6	B6	18	LYS
6	B6	22	LEU
6	B6	58	SER
7	B7	96	ASN
7	B7	103	GLU
7	B7	104	GLU
8	B8	31	THR
8	B8	91	LYS
8	B8	100	GLY
9	B9	73	LYS
9	B9	106	ASN
11	BB	189	GLU
12	BC	5	THR
12	BC	83	SER
12	BC	148	GLN
12	BC	205	VAL
12	BC	212	ASN
12	BC	229	THR
13	BD	9	SER
13	BD	92	LYS
13	BD	133	HIS
13	BD	168	ARG
14	BE	43	SER
14	BE	149	ILE
14	BE	204	CYS
14	BE	248	LEU
15	BF	66	GLU
15	BF	76	ASP
16	BG	56	PHE
16	BG	60	GLN
16	BG	63	ILE
16	BG	75	GLY
16	BG	158	PHE
17	BH	76	SER
18	BI	5	LYS
19	BJ	67	LYS
19	BJ	109	GLY
20	BK	70	SER

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Mol	Chain	Res	Type
20	BK	100	LYS
20	BK	124	MET
20	BK	142	ARG
21	BL	45	ALA
21	BL	62	GLN
21	BL	87	PRO
21	BL	88	MET
21	BL	89	ASP
21	BL	107	GLY
21	BL	108	ARG
21	BL	117	PRO
22	BM	7	LYS
22	BM	8	GLU
22	BM	57	ARG
22	BM	96	LYS
22	BM	136	GLN
22	BM	141	SER
22	BM	142	GLY
22	BM	148	CYS
23	BN	31	THR
24	BO	5	GLN
24	BO	16	SER
24	BO	27	TRP
24	BO	61	GLY
24	BO	85	GLN
24	BO	89	ASP
24	BO	145	ALA
25	BP	29	ASP
25	BP	57	GLY
25	BP	148	ALA
26	BQ	10	GLN
26	BQ	16	PHE
26	BQ	17	LEU
26	BQ	27	THR
26	BQ	30	GLY
27	BR	75	HIS
27	BR	106	ARG
27	BR	130	ASN
27	BR	180	VAL
27	BR	201	THR
27	BR	267	LEU
27	BR	287	SER

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Mol	Chain	Res	Type
27	BR	303	GLU
27	BR	308	LYS
28	BS	15	GLY
29	BT	38	THR
29	BT	41	THR
29	BT	93	ARG
30	BU	55	TYR
30	BU	74	PRO
30	BU	101	SER
31	BV	72	LYS
31	BV	83	ASP
31	BV	114	ILE
32	BW	15	PRO
32	BW	24	GLY
32	BW	96	LYS
32	BW	204	GLN
32	BW	206	SER
32	BW	207	PHE
32	BW	215	ALA
33	BX	8	LEU
33	BX	64	ALA
34	BY	8	PRO
34	BY	9	LEU
34	BY	43	ASP
34	BY	87	ARG
34	BY	181	ARG
35	BZ	3	SER
35	BZ	16	LEU
35	BZ	26	ALA
35	BZ	40	PHE
35	BZ	56	GLU
35	BZ	79	ALA
1	A1	15	LEU
1	A1	19	GLY
1	A1	53	ASP
2	A2	48	LYS
2	A2	58	GLY
2	A2	155	LYS
2	A2	193	GLY
3	A3	10	GLN
3	A3	161	ASP
4	A4	38	ILE

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Mol	Chain	Res	Type
4	A4	46	GLY
4	A4	61	GLU
4	A4	197	GLU
4	A4	215	ASN
5	A5	81	ILE
5	A5	82	HIS
6	A6	16	LYS
6	A6	35	CYS
7	A7	33	GLU
7	A7	94	ALA
8	A8	28	LYS
8	A8	50	VAL
8	A8	66	VAL
11	AB	3	THR
12	AC	82	TYR
12	AC	85	ASP
12	AC	145	LEU
12	AC	149	ARG
12	AC	159	TYR
12	AC	160	MET
12	AC	204	GLY
13	AD	91	ARG
13	AD	92	LYS
13	AD	117	ASN
13	AD	164	LEU
14	AE	42	ILE
14	AE	71	VAL
14	AE	92	GLN
14	AE	108	SER
14	AE	164	GLY
14	AE	179	ILE
14	AE	203	GLY
14	AE	232	GLY
15	AF	16	GLN
15	AF	28	GLY
16	AG	58	LYS
16	AG	100	GLY
16	AG	157	ALA
16	AG	159	LYS
16	AG	183	SER
17	AH	100	GLY
18	AI	44	GLN

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Mol	Chain	Res	Type
19	AJ	52	GLY
20	AK	102	GLY
20	AK	105	THR
20	AK	110	PRO
20	AK	139	SER
21	AL	35	GLY
21	AL	54	GLU
21	AL	76	ARG
21	AL	138	LYS
22	AM	40	ARG
22	AM	81	ILE
22	AM	96	LYS
22	AM	100	MET
22	AM	135	GLY
22	AM	145	GLY
23	AN	29	LEU
23	AN	34	GLU
24	AO	9	LYS
24	AO	89	ASP
24	AO	108	ARG
24	AO	110	ASP
25	AP	62	TYR
25	AP	63	GLY
25	AP	102	ARG
25	AP	129	GLY
25	AP	130	ASP
26	AQ	6	GLN
26	AQ	8	ALA
26	AQ	19	SER
26	AQ	27	THR
26	AQ	30	GLY
26	AQ	94	ARG
27	AR	35	GLU
27	AR	105	LEU
27	AR	108	GLY
27	AR	178	ASN
27	AR	268	GLN
27	AR	290	PRO
27	AR	295	GLU
27	AR	297	GLU
28	AS	31	GLU
28	AS	33	LEU

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Mol	Chain	Res	Type
29	AT	30	ASN
29	AT	35	PRO
29	AT	38	THR
29	AT	45	VAL
30	AU	5	ASN
30	AU	24	ALA
30	AU	90	ALA
30	AU	91	LYS
30	AU	100	CYS
31	AV	94	GLU
31	AV	112	GLN
32	AW	5	PRO
32	AW	62	THR
32	AW	68	LYS
32	AW	95	GLU
32	AW	173	ASN
32	AW	175	ALA
32	AW	216	LYS
33	AX	24	LYS
34	AY	67	VAL
34	AY	91	PHE
34	AY	99	GLY
34	AY	147	LEU
34	AY	150	GLU
35	AZ	10	SER
35	AZ	35	SER
35	AZ	91	GLY
1	B1	15	LEU
1	B1	19	GLY
1	B1	53	ASP
2	B2	48	LYS
2	B2	58	GLY
2	B2	155	LYS
2	B2	193	GLY
3	B3	10	GLN
3	B3	161	ASP
4	B4	38	ILE
4	B4	46	GLY
4	B4	61	GLU
4	B4	197	GLU
4	B4	215	ASN
6	B6	35	CYS

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Mol	Chain	Res	Type
7	B7	33	GLU
7	B7	94	ALA
8	B8	28	LYS
8	B8	50	VAL
8	B8	66	VAL
11	BB	3	THR
12	BC	82	TYR
12	BC	85	ASP
12	BC	145	LEU
12	BC	149	ARG
12	BC	159	TYR
12	BC	160	MET
12	BC	204	GLY
13	BD	91	ARG
13	BD	117	ASN
13	BD	164	LEU
14	BE	42	ILE
14	BE	71	VAL
14	BE	92	GLN
14	BE	108	SER
14	BE	164	GLY
14	BE	179	ILE
14	BE	203	GLY
14	BE	232	GLY
15	BF	16	GLN
15	BF	28	GLY
16	BG	41	GLN
16	BG	58	LYS
16	BG	100	GLY
16	BG	157	ALA
16	BG	183	SER
17	BH	100	GLY
18	BI	44	GLN
19	BJ	52	GLY
19	BJ	74	SER
20	BK	99	ALA
20	BK	102	GLY
20	BK	105	THR
20	BK	110	PRO
21	BL	35	GLY
21	BL	54	GLU
21	BL	76	ARG

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Mol	Chain	Res	Type
21	BL	138	LYS
22	BM	40	ARG
22	BM	81	ILE
22	BM	100	MET
22	BM	135	GLY
22	BM	145	GLY
23	BN	29	LEU
23	BN	34	GLU
24	BO	9	LYS
24	BO	108	ARG
25	BP	62	TYR
25	BP	63	GLY
25	BP	102	ARG
25	BP	129	GLY
25	BP	130	ASP
26	BQ	6	GLN
26	BQ	8	ALA
26	BQ	19	SER
26	BQ	25	LYS
26	BQ	94	ARG
27	BR	35	GLU
27	BR	105	LEU
27	BR	108	GLY
27	BR	163	ASP
27	BR	178	ASN
27	BR	268	GLN
27	BR	290	PRO
27	BR	295	GLU
27	BR	297	GLU
28	BS	31	GLU
28	BS	33	LEU
29	BT	30	ASN
29	BT	35	PRO
29	BT	45	VAL
30	BU	5	ASN
30	BU	24	ALA
30	BU	89	ASN
30	BU	98	LYS
30	BU	100	CYS
31	BV	94	GLU
31	BV	112	GLN
32	BW	5	PRO

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Mol	Chain	Res	Type
32	BW	68	LYS
32	BW	106	ASP
32	BW	175	ALA
32	BW	205	GLY
32	BW	216	LYS
33	BX	24	LYS
34	BY	67	VAL
34	BY	91	PHE
34	BY	99	GLY
34	BY	147	LEU
34	BY	150	GLU
34	BY	160	VAL
35	BZ	10	SER
35	BZ	35	SER
35	BZ	70	CYS
35	BZ	91	GLY
2	A2	29	LYS
2	A2	42	SER
2	A2	91	TYR
2	A2	157	GLN
3	A3	147	GLY
3	A3	167	LEU
4	A4	41	SER
5	A5	38	ARG
5	A5	91	ALA
8	A8	32	LYS
9	A9	118	LYS
9	A9	130	ASP
11	AB	2	ALA
11	AB	149	PRO
12	AC	64	VAL
12	AC	67	LYS
12	AC	95	LYS
12	AC	121	ALA
14	AE	221	ASN
14	AE	229	ASP
15	AF	27	ARG
16	AG	41	GLN
16	AG	103	PRO
16	AG	179	ASN
18	AI	59	GLN
20	AK	23	ALA

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Mol	Chain	Res	Type
20	AK	99	ALA
20	AK	106	LYS
20	AK	122	SER
20	AK	141	ARG
21	AL	109	GLN
22	AM	54	PRO
22	AM	83	THR
22	AM	146	VAL
23	AN	28	GLY
25	AP	28	PRO
26	AQ	7	ARG
26	AQ	117	LYS
26	AQ	135	ARG
27	AR	89	CYS
27	AR	163	ASP
27	AR	177	ALA
27	AR	276	GLN
27	AR	330	ASP
28	AS	130	PRO
29	AT	40	TRP
29	AT	128	PHE
30	AU	49	ASP
31	AV	76	GLU
32	AW	56	LEU
32	AW	82	LYS
32	AW	118	LYS
32	AW	205	GLY
33	AX	60	PRO
34	AY	92	ARG
34	AY	160	VAL
35	AZ	21	LYS
35	AZ	70	CYS
2	B2	42	SER
2	B2	47	GLU
2	B2	91	TYR
2	B2	157	GLN
3	B3	147	GLY
3	B3	167	LEU
4	B4	41	SER
4	B4	117	ILE
4	B4	163	LYS
5	B5	38	ARG

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Mol	Chain	Res	Type
5	B5	82	HIS
5	B5	91	ALA
8	B8	32	LYS
9	B9	118	LYS
9	B9	130	ASP
11	BB	2	ALA
11	BB	149	PRO
12	BC	64	VAL
12	BC	67	LYS
12	BC	95	LYS
12	BC	121	ALA
14	BE	221	ASN
14	BE	229	ASP
15	BF	27	ARG
16	BG	103	PRO
16	BG	159	LYS
16	BG	179	ASN
18	BI	59	GLN
20	BK	23	ALA
20	BK	106	LYS
20	BK	122	SER
20	BK	139	SER
20	BK	141	ARG
20	BK	146	ARG
21	BL	91	CYS
21	BL	109	GLN
22	BM	54	PRO
24	BO	110	ASP
25	BP	28	PRO
26	BQ	7	ARG
26	BQ	29	ALA
26	BQ	117	LYS
26	BQ	135	ARG
27	BR	89	CYS
27	BR	177	ALA
27	BR	330	ASP
28	BS	130	PRO
29	BT	40	TRP
29	BT	128	PHE
30	BU	49	ASP
31	BV	76	GLU
32	BW	56	LEU

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Mol	Chain	Res	Type
32	BW	62	THR
32	BW	82	LYS
32	BW	95	GLU
32	BW	118	LYS
32	BW	173	ASN
33	BX	60	PRO
35	BZ	21	LYS
2	A2	9	HIS
2	A2	47	GLU
2	A2	69	CYS
4	A4	117	ILE
4	A4	154	GLN
4	A4	163	LYS
5	A5	65	GLY
5	A5	84	ARG
7	A7	61	TRP
9	A9	92	HIS
17	AH	56	HIS
17	AH	59	LYS
18	AI	39	ASP
18	AI	122	ASP
19	AJ	108	PRO
20	AK	146	ARG
21	AL	91	CYS
22	AM	18	LEU
22	AM	150	VAL
23	AN	22	VAL
23	AN	23	CYS
27	AR	61	GLN
29	AT	33	SER
29	AT	43	THR
29	AT	99	CYS
29	AT	123	SER
31	AV	100	ASN
32	AW	3	ARG
33	AX	25	ASP
34	AY	135	PRO
2	B2	9	HIS
2	B2	69	CYS
4	B4	154	GLN
5	B5	81	ILE
5	B5	84	ARG

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Mol	Chain	Res	Type
7	B7	61	TRP
9	B9	92	HIS
12	BC	36	GLY
19	BJ	108	PRO
22	BM	146	VAL
22	BM	150	VAL
23	BN	22	VAL
23	BN	23	CYS
24	BO	26	LYS
27	BR	61	GLN
27	BR	276	GLN
29	BT	43	THR
29	BT	99	CYS
29	BT	123	SER
32	BW	3	ARG
32	BW	53	ASN
32	BW	145	ASP
32	BW	245	GLY
33	BX	25	ASP
34	BY	92	ARG
34	BY	135	PRO
1	A1	32	ILE
2	A2	41	GLN
2	A2	144	SER
4	A4	23	ILE
4	A4	164	SER
5	A5	86	VAL
6	A6	24	GLN
7	A7	85	ASP
12	AC	36	GLY
12	AC	84	ASP
13	AD	98	GLY
14	AE	69	LYS
16	AG	62	PRO
22	AM	10	ASP
22	AM	26	ARG
23	AN	10	PRO
23	AN	54	TYR
24	AO	20	PHE
24	AO	21	LYS
24	AO	26	LYS
24	AO	137	LEU

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Mol	Chain	Res	Type
25	AP	64	GLY
25	AP	128	LYS
26	AQ	78	LYS
27	AR	156	ALA
27	AR	172	PRO
27	AR	266	LYS
27	AR	289	ALA
28	AS	123	GLU
29	AT	124	ALA
32	AW	51	ARG
32	AW	53	ASN
32	AW	145	ASP
33	AX	26	LYS
34	AY	88	ARG
1	B1	32	ILE
2	B2	29	LYS
2	B2	41	GLN
4	B4	23	ILE
5	B5	65	GLY
5	B5	86	VAL
6	B6	24	GLN
7	B7	85	ASP
12	BC	84	ASP
14	BE	69	LYS
18	BI	39	ASP
18	BI	122	ASP
22	BM	10	ASP
22	BM	18	LEU
23	BN	10	PRO
23	BN	21	ARG
23	BN	28	GLY
24	BO	20	PHE
24	BO	21	LYS
24	BO	137	LEU
25	BP	64	GLY
25	BP	128	LYS
26	BQ	78	LYS
27	BR	147	ILE
27	BR	172	PRO
27	BR	266	LYS
27	BR	289	ALA
28	BS	123	GLU

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Mol	Chain	Res	Type
29	BT	33	SER
29	BT	124	ALA
30	BU	96	LYS
31	BV	100	ASN
32	BW	51	ARG
33	BX	26	LYS
34	BY	88	ARG
3	A3	78	ARG
14	AE	44	SER
14	AE	240	PRO
19	AJ	107	ASP
23	AN	21	ARG
24	AO	73	ILE
24	AO	81	GLY
27	AR	23	TRP
27	AR	147	ILE
29	AT	42	THR
35	AZ	92	LEU
2	B2	144	SER
3	B3	77	ALA
3	B3	78	ARG
11	BB	187	LYS
13	BD	98	GLY
14	BE	240	PRO
16	BG	62	PRO
16	BG	138	PRO
22	BM	26	ARG
22	BM	36	ARG
24	BO	73	ILE
24	BO	81	GLY
27	BR	23	TRP
28	BS	85	TYR
29	BT	51	PRO
31	BV	90	ILE
35	BZ	92	LEU
3	A3	105	VAL
3	A3	133	PRO
13	AD	129	ILE
16	AG	102	ASN
16	AG	138	PRO
19	AJ	68	SER
22	AM	95	GLY

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Mol	Chain	Res	Type
26	AQ	116	VAL
28	AS	104	GLY
32	AW	245	GLY
3	B3	105	VAL
3	B3	133	PRO
19	BJ	68	SER
19	BJ	107	ASP
22	BM	95	GLY
26	BQ	116	VAL
27	BR	242	ILE
28	BS	104	GLY
4	A4	63	ILE
11	AB	167	ILE
14	AE	58	PRO
23	AN	30	ILE
27	AR	116	GLY
29	AT	51	PRO
31	AV	90	ILE
4	B4	63	ILE
17	BH	77	PRO
27	BR	116	GLY
31	BV	42	PRO
11	AB	23	ILE
17	AH	77	PRO
19	AJ	69	PRO
21	AL	110	GLY
27	AR	19	GLY
31	AV	42	PRO
11	BB	23	ILE
11	BB	167	ILE
16	BG	49	GLY
16	BG	102	ASN
21	BL	110	GLY
23	BN	30	ILE
27	BR	19	GLY
29	BT	34	ILE
30	BU	56	VAL
21	AL	114	GLY
27	AR	149	GLY
27	AR	242	ILE
29	AT	34	ILE
30	AU	56	VAL

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Mol	Chain	Res	Type
13	BD	129	ILE
14	BE	58	PRO
19	BJ	69	PRO
20	BK	109	GLY
20	BK	134	PRO
28	AS	53	GLY
29	AT	82	ILE
27	BR	149	GLY
28	BS	53	GLY

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A1	56/57 (98%)	54 (96%)	2 (4%)	31 54
1	B1	56/57 (98%)	54 (96%)	2 (4%)	31 54
2	A2	184/185 (100%)	168 (91%)	16 (9%)	9 33
2	B2	184/185 (100%)	169 (92%)	15 (8%)	10 34
3	A3	182/183 (100%)	164 (90%)	18 (10%)	7 27
3	B3	182/183 (100%)	163 (90%)	19 (10%)	7 25
4	A4	191/225 (85%)	171 (90%)	20 (10%)	6 24
4	B4	191/225 (85%)	171 (90%)	20 (10%)	6 24
5	A5	88/107 (82%)	77 (88%)	11 (12%)	4 20
5	B5	88/107 (82%)	77 (88%)	11 (12%)	4 20
6	A6	71/72 (99%)	66 (93%)	5 (7%)	14 40
6	B6	71/72 (99%)	66 (93%)	5 (7%)	14 40
7	A7	94/136 (69%)	83 (88%)	11 (12%)	5 21
7	B7	94/136 (69%)	83 (88%)	11 (12%)	5 21
8	A8	80/109 (73%)	67 (84%)	13 (16%)	2 14
8	B8	80/109 (73%)	67 (84%)	13 (16%)	2 14
9	A9	64/138 (46%)	56 (88%)	8 (12%)	4 20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	B9	64/138 (46%)	57 (89%)	7 (11%)	6	24
11	AB	183/211 (87%)	166 (91%)	17 (9%)	8	29
11	BB	183/211 (87%)	166 (91%)	17 (9%)	8	29
12	AC	197/210 (94%)	177 (90%)	20 (10%)	7	26
12	BC	197/210 (94%)	177 (90%)	20 (10%)	7	26
13	AD	161/162 (99%)	139 (86%)	22 (14%)	3	17
13	BD	161/162 (99%)	138 (86%)	23 (14%)	3	17
14	AE	194/250 (78%)	170 (88%)	24 (12%)	4	20
14	BE	194/250 (78%)	171 (88%)	23 (12%)	5	21
15	AF	80/92 (87%)	70 (88%)	10 (12%)	4	20
15	BF	80/92 (87%)	71 (89%)	9 (11%)	5	22
16	AG	163/169 (96%)	146 (90%)	17 (10%)	7	25
16	BG	163/169 (96%)	146 (90%)	17 (10%)	7	25
17	AH	116/117 (99%)	101 (87%)	15 (13%)	4	19
17	BH	116/117 (99%)	102 (88%)	14 (12%)	5	21
18	AI	120/122 (98%)	113 (94%)	7 (6%)	18	44
18	BI	120/122 (98%)	112 (93%)	8 (7%)	15	41
19	AJ	98/111 (88%)	93 (95%)	5 (5%)	21	46
19	BJ	98/111 (88%)	93 (95%)	5 (5%)	21	46
20	AK	112/121 (93%)	96 (86%)	16 (14%)	3	17
20	BK	112/121 (93%)	97 (87%)	15 (13%)	4	18
21	AL	113/114 (99%)	103 (91%)	10 (9%)	9	33
21	BL	113/114 (99%)	104 (92%)	9 (8%)	11	35
22	AM	134/135 (99%)	118 (88%)	16 (12%)	5	21
22	BM	134/135 (99%)	118 (88%)	16 (12%)	5	21
23	AN	47/49 (96%)	40 (85%)	7 (15%)	3	16
23	BN	47/49 (96%)	40 (85%)	7 (15%)	3	16
24	AO	134/136 (98%)	125 (93%)	9 (7%)	15	41
24	BO	134/136 (98%)	124 (92%)	10 (8%)	12	37
25	AP	133/134 (99%)	124 (93%)	9 (7%)	14	40
25	BP	133/134 (99%)	124 (93%)	9 (7%)	14	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
26	AQ	141/141 (100%)	128 (91%)	13 (9%)	8 30
26	BQ	141/141 (100%)	127 (90%)	14 (10%)	7 27
27	AR	291/295 (99%)	260 (89%)	31 (11%)	6 24
27	BR	291/295 (99%)	258 (89%)	33 (11%)	5 22
28	AS	105/117 (90%)	101 (96%)	4 (4%)	29 52
28	BS	105/117 (90%)	101 (96%)	4 (4%)	29 52
29	AT	129/134 (96%)	118 (92%)	11 (8%)	10 33
29	BT	129/134 (96%)	119 (92%)	10 (8%)	11 36
30	AU	103/104 (99%)	98 (95%)	5 (5%)	22 47
30	BU	103/104 (99%)	100 (97%)	3 (3%)	37 58
31	AV	108/115 (94%)	98 (91%)	10 (9%)	8 29
31	BV	108/115 (94%)	99 (92%)	9 (8%)	10 34
32	AW	226/227 (100%)	199 (88%)	27 (12%)	5 21
32	BW	226/227 (100%)	200 (88%)	26 (12%)	5 22
33	AX	57/67 (85%)	55 (96%)	2 (4%)	32 55
33	BX	57/67 (85%)	55 (96%)	2 (4%)	32 55
34	AY	201/244 (82%)	187 (93%)	14 (7%)	14 40
34	BY	201/244 (82%)	189 (94%)	12 (6%)	17 43
35	AZ	82/82 (100%)	75 (92%)	7 (8%)	10 33
35	BZ	82/82 (100%)	76 (93%)	6 (7%)	13 38
All	All	8876/9742 (91%)	8020 (90%)	856 (10%)	8 28

All (856) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	29	VAL
1	A1	41	LEU
2	A2	21	HIS
2	A2	35	MET
2	A2	52	ARG
2	A2	56	VAL
2	A2	66	LEU
2	A2	74	SER
2	A2	86	ILE
2	A2	109	ILE

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Mol	Chain	Res	Type
2	A2	110	VAL
2	A2	112	ILE
2	A2	134	ASP
2	A2	142	GLU
2	A2	146	HIS
2	A2	154	THR
2	A2	173	LEU
2	A2	185	ARG
3	A3	62	LEU
3	A3	63	ILE
3	A3	80	LEU
3	A3	105	VAL
3	A3	115	ARG
3	A3	117	ARG
3	A3	130	LEU
3	A3	131	LEU
3	A3	136	LEU
3	A3	146	ASP
3	A3	148	THR
3	A3	152	ARG
3	A3	159	ASP
3	A3	177	VAL
3	A3	179	THR
3	A3	181	GLU
3	A3	192	PHE
3	A3	195	PHE
4	A4	38	ILE
4	A4	61	GLU
4	A4	63	ILE
4	A4	67	VAL
4	A4	81	ASP
4	A4	92	ASP
4	A4	106	LEU
4	A4	111	ASP
4	A4	116	MET
4	A4	124	ILE
4	A4	128	VAL
4	A4	132	THR
4	A4	138	ILE
4	A4	142	THR
4	A4	143	LEU
4	A4	146	THR

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Mol	Chain	Res	Type
4	A4	150	SER
4	A4	194	LEU
4	A4	197	GLU
4	A4	227	PRO
5	A5	3	VAL
5	A5	20	THR
5	A5	36	VAL
5	A5	39	TYR
5	A5	45	VAL
5	A5	69	LEU
5	A5	73	LEU
5	A5	77	ILE
5	A5	85	VAL
5	A5	88	VAL
5	A5	90	CYS
6	A6	2	GLU
6	A6	41	ILE
6	A6	52	ILE
6	A6	54	CYS
6	A6	77	PHE
7	A7	16	LEU
7	A7	23	VAL
7	A7	40	LEU
7	A7	55	LEU
7	A7	60	ASN
7	A7	64	THR
7	A7	80	LEU
7	A7	87	VAL
7	A7	96	ASN
7	A7	100	ILE
7	A7	103	GLU
8	A8	27	LYS
8	A8	30	TRP
8	A8	31	THR
8	A8	43	VAL
8	A8	45	ILE
8	A8	73	LEU
8	A8	78	SER
8	A8	79	LEU
8	A8	86	THR
8	A8	89	ASP
8	A8	92	LEU

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Mol	Chain	Res	Type
8	A8	106	SER
8	A8	114	ASP
9	A9	81	THR
9	A9	88	HIS
9	A9	111	LEU
9	A9	112	GLN
9	A9	119	CYS
9	A9	124	PHE
9	A9	127	LYS
9	A9	144	ASP
11	AB	5	ARG
11	AB	12	ARG
11	AB	14	LEU
11	AB	31	ARG
11	AB	39	ASN
11	AB	98	ARG
11	AB	100	THR
11	AB	103	THR
11	AB	105	THR
11	AB	113	GLU
11	AB	116	ARG
11	AB	121	THR
11	AB	136	VAL
11	AB	140	VAL
11	AB	144	CYS
11	AB	150	LEU
11	AB	198	PHE
12	AC	10	LYS
12	AC	34	ASP
12	AC	61	VAL
12	AC	80	PHE
12	AC	82	TYR
12	AC	93	PRO
12	AC	118	VAL
12	AC	125	ILE
12	AC	126	ILE
12	AC	141	ILE
12	AC	142	SER
12	AC	146	LYS
12	AC	147	GLN
12	AC	153	MET
12	AC	168	ASN

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Mol	Chain	Res	Type
12	AC	171	ILE
12	AC	185	MET
12	AC	193	LEU
12	AC	196	GLU
12	AC	213	VAL
13	AD	11	THR
13	AD	17	ARG
13	AD	37	LYS
13	AD	38	ASN
13	AD	47	MET
13	AD	61	THR
13	AD	66	ASP
13	AD	81	PHE
13	AD	92	LYS
13	AD	93	LEU
13	AD	94	ASP
13	AD	105	MET
13	AD	110	GLN
13	AD	127	VAL
13	AD	129	ILE
13	AD	130	ARG
13	AD	131	GLN
13	AD	140	LEU
13	AD	150	THR
13	AD	156	ILE
13	AD	158	PHE
13	AD	161	THR
14	AE	27	TRP
14	AE	31	THR
14	AE	55	ILE
14	AE	56	LYS
14	AE	59	GLU
14	AE	71	VAL
14	AE	75	HIS
14	AE	81	VAL
14	AE	92	GLN
14	AE	98	ARG
14	AE	109	ASN
14	AE	130	ILE
14	AE	135	LEU
14	AE	153	HIS
14	AE	155	ILE

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Mol	Chain	Res	Type
14	AE	157	GLN
14	AE	160	THR
14	AE	162	LYS
14	AE	180	VAL
14	AE	210	ASN
14	AE	219	LEU
14	AE	230	PHE
14	AE	231	TRP
14	AE	238	GLU
15	AF	34	THR
15	AF	36	GLU
15	AF	41	GLU
15	AF	42	PHE
15	AF	44	TYR
15	AF	55	LEU
15	AF	71	ILE
15	AF	73	LEU
15	AF	74	ASN
15	AF	79	ASN
16	AG	24	ILE
16	AG	30	GLN
16	AG	33	ILE
16	AG	36	THR
16	AG	41	GLN
16	AG	44	VAL
16	AG	51	TYR
16	AG	56	PHE
16	AG	57	ARG
16	AG	65	GLU
16	AG	73	PHE
16	AG	74	HIS
16	AG	117	ARG
16	AG	121	THR
16	AG	134	VAL
16	AG	139	MET
16	AG	178	ASN
17	AH	4	VAL
17	AH	6	ILE
17	AH	58	SER
17	AH	59	LYS
17	AH	68	ARG
17	AH	75	ILE

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Mol	Chain	Res	Type
17	AH	76	SER
17	AH	77	PRO
17	AH	85	ASP
17	AH	97	ARG
17	AH	99	PHE
17	AH	104	LEU
17	AH	106	THR
17	AH	113	HIS
17	AH	126	LEU
18	AI	11	THR
18	AI	25	ARG
18	AI	62	PHE
18	AI	65	LEU
18	AI	68	ARG
18	AI	91	ILE
18	AI	112	MET
19	AJ	20	ARG
19	AJ	27	ASN
19	AJ	55	ARG
19	AJ	72	GLU
19	AJ	88	ILE
20	AK	28	PHE
20	AK	43	HIS
20	AK	46	ASP
20	AK	47	LEU
20	AK	67	GLU
20	AK	79	ILE
20	AK	80	ASP
20	AK	85	CYS
20	AK	95	ILE
20	AK	113	GLN
20	AK	116	LEU
20	AK	117	ARG
20	AK	119	LEU
20	AK	129	ILE
20	AK	140	THR
20	AK	149	ARG
21	AL	9	ILE
21	AL	19	ARG
21	AL	33	LEU
21	AL	59	GLU
21	AL	69	LYS

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Mol	Chain	Res	Type
21	AL	82	ILE
21	AL	89	ASP
21	AL	92	LEU
21	AL	106	LEU
21	AL	132	LEU
22	AM	8	GLU
22	AM	16	ARG
22	AM	27	ILE
22	AM	28	THR
22	AM	53	ASP
22	AM	55	ASN
22	AM	62	THR
22	AM	71	ASP
22	AM	93	LYS
22	AM	94	ASP
22	AM	103	ASN
22	AM	113	LEU
22	AM	123	ARG
22	AM	125	LEU
22	AM	132	LYS
22	AM	147	VAL
23	AN	5	LEU
23	AN	22	VAL
23	AN	30	ILE
23	AN	33	TYR
23	AN	40	ARG
23	AN	41	CYS
23	AN	52	VAL
24	AO	4	MET
24	AO	13	ILE
24	AO	14	SER
24	AO	33	SER
24	AO	69	THR
24	AO	74	LEU
24	AO	88	GLU
24	AO	98	LEU
24	AO	147	THR
25	AP	7	THR
25	AP	26	LEU
25	AP	54	VAL
25	AP	56	TYR
25	AP	98	LYS

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Mol	Chain	Res	Type
25	AP	102	ARG
25	AP	121	THR
25	AP	124	LEU
25	AP	130	ASP
26	AQ	20	LYS
26	AQ	32	ARG
26	AQ	45	LYS
26	AQ	46	GLU
26	AQ	68	LYS
26	AQ	69	ILE
26	AQ	78	LYS
26	AQ	106	ILE
26	AQ	114	PHE
26	AQ	120	ASP
26	AQ	121	ILE
26	AQ	133	THR
26	AQ	135	ARG
27	AR	41	VAL
27	AR	42	LEU
27	AR	43	ILE
27	AR	57	TYR
27	AR	73	THR
27	AR	84	LEU
27	AR	87	GLU
27	AR	111	TYR
27	AR	113	ARG
27	AR	114	PHE
27	AR	126	PHE
27	AR	144	LEU
27	AR	159	GLU
27	AR	161	HIS
27	AR	163	ASP
27	AR	164	TRP
27	AR	190	VAL
27	AR	205	ILE
27	AR	208	THR
27	AR	241	ASP
27	AR	246	THR
27	AR	247	TYR
27	AR	251	GLU
27	AR	259	ASN
27	AR	261	ILE

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Mol	Chain	Res	Type
27	AR	264	ASN
27	AR	290	PRO
27	AR	297	GLU
27	AR	311	GLN
27	AR	313	THR
27	AR	339	GLU
28	AS	54	ILE
28	AS	65	VAL
28	AS	83	THR
28	AS	124	PHE
29	AT	10	VAL
29	AT	32	LEU
29	AT	40	TRP
29	AT	61	THR
29	AT	83	PHE
29	AT	103	ILE
29	AT	110	SER
29	AT	114	LEU
29	AT	116	ILE
29	AT	125	THR
29	AT	137	MET
30	AU	70	TYR
30	AU	86	PHE
30	AU	89	ASN
30	AU	100	CYS
30	AU	103	LEU
31	AV	4	VAL
31	AV	25	THR
31	AV	35	LEU
31	AV	36	SER
31	AV	47	ARG
31	AV	86	PRO
31	AV	93	ILE
31	AV	100	ASN
31	AV	105	MET
31	AV	114	ILE
32	AW	12	ILE
32	AW	29	THR
32	AW	37	LYS
32	AW	48	LEU
32	AW	57	ASN
32	AW	66	ASN

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Mol	Chain	Res	Type
32	AW	81	ASP
32	AW	89	MET
32	AW	92	VAL
32	AW	114	LYS
32	AW	116	LEU
32	AW	123	TYR
32	AW	137	GLN
32	AW	141	ILE
32	AW	152	PRO
32	AW	176	HIS
32	AW	185	ILE
32	AW	189	ASN
32	AW	191	ILE
32	AW	193	ARG
32	AW	207	PHE
32	AW	212	VAL
32	AW	222	THR
32	AW	238	ILE
32	AW	239	GLU
32	AW	244	ASP
32	AW	254	ARG
33	AX	34	ARG
33	AX	62	TRP
34	AY	9	LEU
34	AY	13	GLN
34	AY	19	ASP
34	AY	20	ASP
34	AY	32	MET
34	AY	45	PHE
34	AY	74	ARG
34	AY	87	ARG
34	AY	105	ASP
34	AY	145	PHE
34	AY	150	GLU
34	AY	155	LEU
34	AY	165	PHE
34	AY	199	THR
35	AZ	14	THR
35	AZ	17	ILE
35	AZ	34	TRP
35	AZ	45	SER
35	AZ	59	GLN

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Mol	Chain	Res	Type
35	AZ	67	VAL
35	AZ	78	GLU
1	B1	29	VAL
1	B1	41	LEU
2	B2	21	HIS
2	B2	35	MET
2	B2	52	ARG
2	B2	56	VAL
2	B2	66	LEU
2	B2	74	SER
2	B2	86	ILE
2	B2	109	ILE
2	B2	110	VAL
2	B2	112	ILE
2	B2	134	ASP
2	B2	142	GLU
2	B2	154	THR
2	B2	173	LEU
2	B2	185	ARG
3	B3	62	LEU
3	B3	63	ILE
3	B3	80	LEU
3	B3	105	VAL
3	B3	115	ARG
3	B3	117	ARG
3	B3	130	LEU
3	B3	131	LEU
3	B3	133	PRO
3	B3	136	LEU
3	B3	146	ASP
3	B3	148	THR
3	B3	152	ARG
3	B3	159	ASP
3	B3	177	VAL
3	B3	179	THR
3	B3	181	GLU
3	B3	192	PHE
3	B3	195	PHE
4	B4	38	ILE
4	B4	61	GLU
4	B4	63	ILE
4	B4	67	VAL

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Mol	Chain	Res	Type
4	B4	81	ASP
4	B4	92	ASP
4	B4	106	LEU
4	B4	111	ASP
4	B4	116	MET
4	B4	124	ILE
4	B4	128	VAL
4	B4	132	THR
4	B4	138	ILE
4	B4	142	THR
4	B4	143	LEU
4	B4	146	THR
4	B4	150	SER
4	B4	194	LEU
4	B4	197	GLU
4	B4	227	PRO
5	B5	3	VAL
5	B5	20	THR
5	B5	36	VAL
5	B5	39	TYR
5	B5	45	VAL
5	B5	69	LEU
5	B5	73	LEU
5	B5	77	ILE
5	B5	85	VAL
5	B5	88	VAL
5	B5	90	CYS
6	B6	2	GLU
6	B6	41	ILE
6	B6	52	ILE
6	B6	54	CYS
6	B6	77	PHE
7	B7	16	LEU
7	B7	23	VAL
7	B7	40	LEU
7	B7	55	LEU
7	B7	60	ASN
7	B7	64	THR
7	B7	80	LEU
7	B7	87	VAL
7	B7	96	ASN
7	B7	100	ILE

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Mol	Chain	Res	Type
7	B7	103	GLU
8	B8	27	LYS
8	B8	30	TRP
8	B8	31	THR
8	B8	43	VAL
8	B8	45	ILE
8	B8	73	LEU
8	B8	78	SER
8	B8	79	LEU
8	B8	86	THR
8	B8	89	ASP
8	B8	92	LEU
8	B8	106	SER
8	B8	114	ASP
9	B9	81	THR
9	B9	111	LEU
9	B9	112	GLN
9	B9	119	CYS
9	B9	124	PHE
9	B9	127	LYS
9	B9	144	ASP
11	BB	5	ARG
11	BB	12	ARG
11	BB	14	LEU
11	BB	31	ARG
11	BB	39	ASN
11	BB	98	ARG
11	BB	100	THR
11	BB	103	THR
11	BB	105	THR
11	BB	113	GLU
11	BB	116	ARG
11	BB	121	THR
11	BB	136	VAL
11	BB	140	VAL
11	BB	144	CYS
11	BB	150	LEU
11	BB	198	PHE
12	BC	10	LYS
12	BC	34	ASP
12	BC	61	VAL
12	BC	80	PHE

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Mol	Chain	Res	Type
12	BC	82	TYR
12	BC	93	PRO
12	BC	118	VAL
12	BC	125	ILE
12	BC	126	ILE
12	BC	141	ILE
12	BC	142	SER
12	BC	146	LYS
12	BC	147	GLN
12	BC	153	MET
12	BC	168	ASN
12	BC	171	ILE
12	BC	185	MET
12	BC	193	LEU
12	BC	196	GLU
12	BC	213	VAL
13	BD	11	THR
13	BD	17	ARG
13	BD	37	LYS
13	BD	38	ASN
13	BD	47	MET
13	BD	49	LEU
13	BD	61	THR
13	BD	66	ASP
13	BD	81	PHE
13	BD	92	LYS
13	BD	93	LEU
13	BD	94	ASP
13	BD	105	MET
13	BD	110	GLN
13	BD	127	VAL
13	BD	129	ILE
13	BD	130	ARG
13	BD	131	GLN
13	BD	140	LEU
13	BD	150	THR
13	BD	156	ILE
13	BD	158	PHE
13	BD	161	THR
14	BE	27	TRP
14	BE	31	THR
14	BE	36	LEU

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Mol	Chain	Res	Type
14	BE	55	ILE
14	BE	56	LYS
14	BE	59	GLU
14	BE	75	HIS
14	BE	81	VAL
14	BE	92	GLN
14	BE	98	ARG
14	BE	109	ASN
14	BE	130	ILE
14	BE	135	LEU
14	BE	153	HIS
14	BE	155	ILE
14	BE	157	GLN
14	BE	160	THR
14	BE	162	LYS
14	BE	180	VAL
14	BE	210	ASN
14	BE	219	LEU
14	BE	231	TRP
14	BE	238	GLU
15	BF	34	THR
15	BF	36	GLU
15	BF	41	GLU
15	BF	42	PHE
15	BF	44	TYR
15	BF	55	LEU
15	BF	73	LEU
15	BF	74	ASN
15	BF	79	ASN
16	BG	24	ILE
16	BG	30	GLN
16	BG	33	ILE
16	BG	36	THR
16	BG	41	GLN
16	BG	44	VAL
16	BG	51	TYR
16	BG	56	PHE
16	BG	57	ARG
16	BG	65	GLU
16	BG	73	PHE
16	BG	74	HIS
16	BG	117	ARG

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Mol	Chain	Res	Type
16	BG	121	THR
16	BG	134	VAL
16	BG	139	MET
16	BG	178	ASN
17	BH	4	VAL
17	BH	6	ILE
17	BH	58	SER
17	BH	59	LYS
17	BH	68	ARG
17	BH	76	SER
17	BH	77	PRO
17	BH	85	ASP
17	BH	97	ARG
17	BH	99	PHE
17	BH	104	LEU
17	BH	106	THR
17	BH	113	HIS
17	BH	126	LEU
18	BI	11	THR
18	BI	24	VAL
18	BI	25	ARG
18	BI	62	PHE
18	BI	65	LEU
18	BI	68	ARG
18	BI	91	ILE
18	BI	112	MET
19	BJ	20	ARG
19	BJ	27	ASN
19	BJ	55	ARG
19	BJ	72	GLU
19	BJ	88	ILE
20	BK	28	PHE
20	BK	43	HIS
20	BK	46	ASP
20	BK	47	LEU
20	BK	67	GLU
20	BK	80	ASP
20	BK	85	CYS
20	BK	95	ILE
20	BK	113	GLN
20	BK	116	LEU
20	BK	117	ARG

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Mol	Chain	Res	Type
20	BK	119	LEU
20	BK	129	ILE
20	BK	140	THR
20	BK	149	ARG
21	BL	9	ILE
21	BL	19	ARG
21	BL	33	LEU
21	BL	69	LYS
21	BL	82	ILE
21	BL	89	ASP
21	BL	92	LEU
21	BL	106	LEU
21	BL	132	LEU
22	BM	8	GLU
22	BM	16	ARG
22	BM	27	ILE
22	BM	28	THR
22	BM	53	ASP
22	BM	55	ASN
22	BM	62	THR
22	BM	71	ASP
22	BM	93	LYS
22	BM	94	ASP
22	BM	103	ASN
22	BM	113	LEU
22	BM	123	ARG
22	BM	125	LEU
22	BM	132	LYS
22	BM	147	VAL
23	BN	5	LEU
23	BN	22	VAL
23	BN	30	ILE
23	BN	33	TYR
23	BN	40	ARG
23	BN	41	CYS
23	BN	52	VAL
24	BO	4	MET
24	BO	13	ILE
24	BO	14	SER
24	BO	33	SER
24	BO	60	HIS
24	BO	69	THR

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Mol	Chain	Res	Type
24	BO	74	LEU
24	BO	88	GLU
24	BO	98	LEU
24	BO	147	THR
25	BP	7	THR
25	BP	26	LEU
25	BP	54	VAL
25	BP	56	TYR
25	BP	98	LYS
25	BP	102	ARG
25	BP	121	THR
25	BP	124	LEU
25	BP	130	ASP
26	BQ	20	LYS
26	BQ	32	ARG
26	BQ	45	LYS
26	BQ	46	GLU
26	BQ	68	LYS
26	BQ	69	ILE
26	BQ	78	LYS
26	BQ	106	ILE
26	BQ	114	PHE
26	BQ	120	ASP
26	BQ	121	ILE
26	BQ	128	ARG
26	BQ	133	THR
26	BQ	139	LEU
27	BR	8	ASP
27	BR	9	ILE
27	BR	41	VAL
27	BR	42	LEU
27	BR	43	ILE
27	BR	57	TYR
27	BR	73	THR
27	BR	84	LEU
27	BR	87	GLU
27	BR	111	TYR
27	BR	113	ARG
27	BR	114	PHE
27	BR	126	PHE
27	BR	144	LEU
27	BR	147	ILE

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Mol	Chain	Res	Type
27	BR	159	GLU
27	BR	161	HIS
27	BR	163	ASP
27	BR	164	TRP
27	BR	190	VAL
27	BR	205	ILE
27	BR	208	THR
27	BR	241	ASP
27	BR	246	THR
27	BR	247	TYR
27	BR	251	GLU
27	BR	259	ASN
27	BR	261	ILE
27	BR	264	ASN
27	BR	290	PRO
27	BR	297	GLU
27	BR	311	GLN
27	BR	313	THR
28	BS	54	ILE
28	BS	65	VAL
28	BS	83	THR
28	BS	124	PHE
29	BT	10	VAL
29	BT	32	LEU
29	BT	40	TRP
29	BT	61	THR
29	BT	83	PHE
29	BT	103	ILE
29	BT	110	SER
29	BT	116	ILE
29	BT	125	THR
29	BT	137	MET
30	BU	70	TYR
30	BU	100	CYS
30	BU	103	LEU
31	BV	4	VAL
31	BV	20	TYR
31	BV	36	SER
31	BV	47	ARG
31	BV	86	PRO
31	BV	93	ILE
31	BV	100	ASN

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Mol	Chain	Res	Type
31	BV	105	MET
31	BV	114	ILE
32	BW	12	ILE
32	BW	29	THR
32	BW	37	LYS
32	BW	48	LEU
32	BW	57	ASN
32	BW	66	ASN
32	BW	89	MET
32	BW	92	VAL
32	BW	114	LYS
32	BW	116	LEU
32	BW	123	TYR
32	BW	137	GLN
32	BW	141	ILE
32	BW	152	PRO
32	BW	176	HIS
32	BW	185	ILE
32	BW	189	ASN
32	BW	191	ILE
32	BW	193	ARG
32	BW	207	PHE
32	BW	212	VAL
32	BW	222	THR
32	BW	238	ILE
32	BW	239	GLU
32	BW	244	ASP
32	BW	254	ARG
33	BX	34	ARG
33	BX	62	TRP
34	BY	9	LEU
34	BY	19	ASP
34	BY	20	ASP
34	BY	32	MET
34	BY	45	PHE
34	BY	87	ARG
34	BY	105	ASP
34	BY	145	PHE
34	BY	150	GLU
34	BY	155	LEU
34	BY	165	PHE
34	BY	199	THR

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Mol	Chain	Res	Type
35	BZ	14	THR
35	BZ	34	TRP
35	BZ	45	SER
35	BZ	59	GLN
35	BZ	67	VAL
35	BZ	78	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (327) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	26	GLN
1	A1	44	ASN
2	A2	60	HIS
2	A2	79	ASN
2	A2	92	ASN
2	A2	124	HIS
2	A2	204	GLN
3	A3	27	GLN
3	A3	44	GLN
3	A3	49	GLN
3	A3	54	ASN
3	A3	112	GLN
3	A3	154	GLN
3	A3	172	HIS
3	A3	193	HIS
4	A4	78	ASN
4	A4	154	GLN
4	A4	175	ASN
4	A4	180	ASN
4	A4	193	ASN
4	A4	209	ASN
4	A4	215	ASN
5	A5	12	GLN
5	A5	14	ASN
5	A5	61	ASN
6	A6	27	ASN
6	A6	42	GLN
6	A6	47	ASN
6	A6	72	GLN
7	A7	15	GLN
7	A7	32	HIS
7	A7	39	ASN

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Mol	Chain	Res	Type
7	A7	41	HIS
7	A7	69	ASN
8	A8	49	ASN
8	A8	76	ASN
8	A8	99	ASN
8	A8	101	ASN
9	A9	105	ASN
11	AB	20	GLN
11	AB	24	ASN
11	AB	39	ASN
11	AB	42	HIS
11	AB	51	GLN
11	AB	128	GLN
11	AB	160	ASN
11	AB	200	HIS
12	AC	9	ASN
12	AC	60	GLN
12	AC	77	GLN
12	AC	88	GLN
12	AC	109	ASN
12	AC	147	GLN
12	AC	148	GLN
13	AD	7	ASN
13	AD	110	GLN
13	AD	124	HIS
14	AE	68	ASN
14	AE	75	HIS
14	AE	90	GLN
14	AE	147	ASN
14	AE	151	ASN
14	AE	153	HIS
14	AE	210	ASN
14	AE	237	ASN
14	AE	249	HIS
14	AE	253	GLN
15	AF	16	GLN
15	AF	18	HIS
15	AF	58	ASN
15	AF	74	ASN
16	AG	10	GLN
16	AG	41	GLN
16	AG	52	GLN

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Mol	Chain	Res	Type
16	AG	96	HIS
16	AG	102	ASN
16	AG	143	ASN
17	AH	24	GLN
17	AH	44	ASN
17	AH	70	ASN
17	AH	113	HIS
18	AI	34	ASN
18	AI	42	ASN
18	AI	44	GLN
18	AI	47	GLN
18	AI	79	GLN
18	AI	85	GLN
18	AI	95	HIS
18	AI	102	ASN
18	AI	141	GLN
19	AJ	27	ASN
19	AJ	94	ASN
19	AJ	103	ASN
20	AK	20	ASN
20	AK	43	HIS
20	AK	113	GLN
21	AL	22	GLN
21	AL	78	ASN
21	AL	98	ASN
21	AL	111	HIS
22	AM	19	ASN
22	AM	21	ASN
22	AM	55	ASN
22	AM	65	GLN
22	AM	67	ASN
22	AM	90	ASN
22	AM	97	ASN
22	AM	99	GLN
22	AM	122	HIS
22	AM	144	HIS
23	AN	12	ASN
24	AO	107	ASN
25	AP	20	GLN
25	AP	27	HIS
25	AP	61	GLN
25	AP	136	GLN

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Mol	Chain	Res	Type
26	AQ	4	GLN
26	AQ	12	GLN
26	AQ	36	ASN
26	AQ	62	ASN
26	AQ	97	ASN
26	AQ	140	GLN
26	AQ	153	GLN
27	AR	33	GLN
27	AR	61	GLN
27	AR	77	HIS
27	AR	130	ASN
27	AR	146	ASN
27	AR	212	HIS
27	AR	217	ASN
27	AR	244	ASN
27	AR	276	GLN
27	AR	311	GLN
27	AR	318	ASN
28	AS	29	ASN
28	AS	84	HIS
29	AT	30	ASN
29	AT	91	ASN
29	AT	97	GLN
29	AT	141	ASN
29	AT	153	GLN
30	AU	20	ASN
30	AU	54	ASN
30	AU	89	ASN
31	AV	26	ASN
31	AV	48	ASN
31	AV	112	GLN
32	AW	8	HIS
32	AW	21	ASN
32	AW	53	ASN
32	AW	169	ASN
32	AW	186	GLN
32	AW	203	HIS
32	AW	204	GLN
32	AW	211	HIS
33	AX	17	GLN
33	AX	42	ASN
34	AY	25	ASN

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Mol	Chain	Res	Type
34	AY	65	GLN
34	AY	81	HIS
34	AY	112	GLN
34	AY	180	GLN
34	AY	206	ASN
35	AZ	44	GLN
35	AZ	48	GLN
35	AZ	80	HIS
1	B1	26	GLN
1	B1	44	ASN
2	B2	60	HIS
2	B2	79	ASN
2	B2	92	ASN
2	B2	124	HIS
2	B2	204	GLN
3	B3	27	GLN
3	B3	44	GLN
3	B3	49	GLN
3	B3	54	ASN
3	B3	108	HIS
3	B3	154	GLN
4	B4	78	ASN
4	B4	98	ASN
4	B4	154	GLN
4	B4	166	GLN
4	B4	175	ASN
4	B4	180	ASN
4	B4	193	ASN
4	B4	209	ASN
4	B4	215	ASN
5	B5	12	GLN
5	B5	14	ASN
5	B5	61	ASN
5	B5	82	HIS
6	B6	42	GLN
6	B6	47	ASN
6	B6	72	GLN
7	B7	15	GLN
7	B7	32	HIS
7	B7	39	ASN
7	B7	41	HIS
7	B7	69	ASN

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Mol	Chain	Res	Type
8	B8	49	ASN
8	B8	76	ASN
8	B8	99	ASN
8	B8	101	ASN
9	B9	105	ASN
11	BB	20	GLN
11	BB	24	ASN
11	BB	39	ASN
11	BB	42	HIS
11	BB	51	GLN
11	BB	137	ASN
11	BB	160	ASN
11	BB	200	HIS
12	BC	9	ASN
12	BC	60	GLN
12	BC	77	GLN
12	BC	88	GLN
12	BC	109	ASN
12	BC	147	GLN
13	BD	7	ASN
13	BD	110	GLN
13	BD	124	HIS
14	BE	30	GLN
14	BE	68	ASN
14	BE	75	HIS
14	BE	132	HIS
14	BE	147	ASN
14	BE	153	HIS
14	BE	210	ASN
14	BE	237	ASN
14	BE	253	GLN
15	BF	18	HIS
15	BF	58	ASN
15	BF	74	ASN
16	BG	10	GLN
16	BG	41	GLN
16	BG	52	GLN
16	BG	96	HIS
16	BG	102	ASN
16	BG	143	ASN
17	BH	24	GLN
17	BH	44	ASN

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Mol	Chain	Res	Type
17	BH	70	ASN
17	BH	101	ASN
17	BH	113	HIS
18	BI	34	ASN
18	BI	42	ASN
18	BI	47	GLN
18	BI	79	GLN
18	BI	85	GLN
18	BI	95	HIS
18	BI	102	ASN
18	BI	141	GLN
19	BJ	27	ASN
19	BJ	94	ASN
19	BJ	103	ASN
20	BK	20	ASN
20	BK	43	HIS
20	BK	113	GLN
21	BL	22	GLN
21	BL	78	ASN
21	BL	98	ASN
22	BM	19	ASN
22	BM	21	ASN
22	BM	55	ASN
22	BM	65	GLN
22	BM	90	ASN
22	BM	97	ASN
22	BM	99	GLN
22	BM	122	HIS
23	BN	12	ASN
24	BO	107	ASN
25	BP	20	GLN
25	BP	27	HIS
25	BP	61	GLN
25	BP	77	GLN
26	BQ	4	GLN
26	BQ	12	GLN
26	BQ	62	ASN
26	BQ	97	ASN
26	BQ	140	GLN
26	BQ	153	GLN
27	BR	33	GLN
27	BR	61	GLN

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Mol	Chain	Res	Type
27	BR	69	HIS
27	BR	76	ASN
27	BR	77	HIS
27	BR	130	ASN
27	BR	146	ASN
27	BR	204	GLN
27	BR	212	HIS
27	BR	217	ASN
27	BR	244	ASN
27	BR	276	GLN
27	BR	311	GLN
27	BR	318	ASN
27	BR	343	ASN
28	BS	29	ASN
28	BS	84	HIS
29	BT	30	ASN
29	BT	91	ASN
29	BT	97	GLN
29	BT	153	GLN
30	BU	7	GLN
30	BU	20	ASN
30	BU	54	ASN
30	BU	89	ASN
31	BV	26	ASN
31	BV	48	ASN
31	BV	112	GLN
32	BW	21	ASN
32	BW	53	ASN
32	BW	169	ASN
32	BW	186	GLN
32	BW	203	HIS
32	BW	204	GLN
32	BW	211	HIS
33	BX	17	GLN
33	BX	42	ASN
34	BY	13	GLN
34	BY	65	GLN
34	BY	81	HIS
34	BY	112	GLN
34	BY	206	ASN
35	BZ	36	ASN
35	BZ	48	GLN

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Mol	Chain	Res	Type
35	BZ	80	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
10	AA	1743/1753 (99%)	454 (26%)	194 (11%)
10	BA	1743/1753 (99%)	455 (26%)	194 (11%)
All	All	3486/3506 (99%)	909 (26%)	388 (11%)

All (909) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
10	AA	2	A
10	AA	3	C
10	AA	4	C
10	AA	9	U
10	AA	17	C
10	AA	26	U
10	AA	27	A
10	AA	33	G
10	AA	41	U
10	AA	42	A
10	AA	44	U
10	AA	45	A
10	AA	46	A
10	AA	47	C
10	AA	50	A
10	AA	56	G
10	AA	59	C
10	AA	60	C
10	AA	64	U
10	AA	65	C
10	AA	66	A
10	AA	71	U
10	AA	72	G
10	AA	74	A
10	AA	76	A
10	AA	77	G
10	AA	84	U
10	AA	85	G
10	AA	89	A

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Mol	Chain	Res	Type
10	AA	90	U
10	AA	95	C
10	AA	96	A
10	AA	98	U
10	AA	100	A
10	AA	101	A
10	AA	103	C
10	AA	110	A
10	AA	111	G
10	AA	122	A
10	AA	124	U
10	AA	125	U
10	AA	126	A
10	AA	132	U
10	AA	134	C
10	AA	135	A
10	AA	136	U
10	AA	153	U
10	AA	161	U
10	AA	164	U
10	AA	165	A
10	AA	171	U
10	AA	172	U
10	AA	173	A
10	AA	182	U
10	AA	183	G
10	AA	188	G
10	AA	199	G
10	AA	210	A
10	AA	211	U
10	AA	212	A
10	AA	215	A
10	AA	225	C
10	AA	227	G
10	AA	228	C
10	AA	232	G
10	AA	237	U
10	AA	238	G
10	AA	246	U
10	AA	247	C
10	AA	258	A
10	AA	259	U

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Mol	Chain	Res	Type
10	AA	263	A
10	AA	264	U
10	AA	271	U
10	AA	272	U
10	AA	273	A
10	AA	274	C
10	AA	288	C
10	AA	300	C
10	AA	303	A
10	AA	304	U
10	AA	305	C
10	AA	307	G
10	AA	310	C
10	AA	311	U
10	AA	312	C
10	AA	313	G
10	AA	314	A
10	AA	315	U
10	AA	319	A
10	AA	320	G
10	AA	328	G
10	AA	329	A
10	AA	337	G
10	AA	342	U
10	AA	343	C
10	AA	344	A
10	AA	352	C
10	AA	361	A
10	AA	368	G
10	AA	369	A
10	AA	372	C
10	AA	379	A
10	AA	381	G
10	AA	391	A
10	AA	392	A
10	AA	393	C
10	AA	394	G
10	AA	408	C
10	AA	409	G
10	AA	414	G
10	AA	416	C
10	AA	418	G

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Mol	Chain	Res	Type
10	AA	422	G
10	AA	431	U
10	AA	432	U
10	AA	436	C
10	AA	437	A
10	AA	445	U
10	AA	447	C
10	AA	448	A
10	AA	452	A
10	AA	455	C
10	AA	460	A
10	AA	461	C
10	AA	479	G
10	AA	480	A
10	AA	482	A
10	AA	485	U
10	AA	486	A
10	AA	488	G
10	AA	495	C
10	AA	499	A
10	AA	500	U
10	AA	501	U
10	AA	503	A
10	AA	512	C
10	AA	513	A
10	AA	531	A
10	AA	533	G
10	AA	534	A
10	AA	535	A
10	AA	537	A
10	AA	538	A
10	AA	539	U
10	AA	544	G
10	AA	547	C
10	AA	548	A
10	AA	552	C
10	AA	553	A
10	AA	554	U
10	AA	558	G
10	AA	559	C
10	AA	560	C
10	AA	568	G

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Mol	Chain	Res	Type
10	AA	573	A
10	AA	574	A
10	AA	575	U
10	AA	576	U
10	AA	577	C
10	AA	588	A
10	AA	589	G
10	AA	600	A
10	AA	601	G
10	AA	602	U
10	AA	603	U
10	AA	604	G
10	AA	605	U
10	AA	607	G
10	AA	608	C
10	AA	613	A
10	AA	614	A
10	AA	616	A
10	AA	617	A
10	AA	631	C
10	AA	632	U
10	AA	633	U
10	AA	634	C
10	AA	635	U
10	AA	642	G
10	AA	643	U
10	AA	644	U
10	AA	648	U
10	AA	649	U
10	AA	655	C
10	AA	656	G
10	AA	668	U
10	AA	669	G
10	AA	670	G
10	AA	674	U
10	AA	675	A
10	AA	676	C
10	AA	677	G
10	AA	686	C
10	AA	707	U
10	AA	719	G
10	AA	748	U

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Mol	Chain	Res	Type
10	AA	749	G
10	AA	750	U
10	AA	751	U
10	AA	757	C
10	AA	758	A
10	AA	761	U
10	AA	762	U
10	AA	763	U
10	AA	764	U
10	AA	765	A
10	AA	766	G
10	AA	772	A
10	AA	778	U
10	AA	781	C
10	AA	786	A
10	AA	787	A
10	AA	793	G
10	AA	794	A
10	AA	795	A
10	AA	796	U
10	AA	797	A
10	AA	834	A
10	AA	835	U
10	AA	838	U
10	AA	840	A
10	AA	841	A
10	AA	842	U
10	AA	843	A
10	AA	850	G
10	AA	854	G
10	AA	859	A
10	AA	864	U
10	AA	865	A
10	AA	867	U
10	AA	869	A
10	AA	872	A
10	AA	877	G
10	AA	882	G
10	AA	886	U
10	AA	887	U
10	AA	888	C
10	AA	890	U

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Mol	Chain	Res	Type
10	AA	891	G
10	AA	892	G
10	AA	893	A
10	AA	894	U
10	AA	906	U
10	AA	907	A
10	AA	910	U
10	AA	911	A
10	AA	912	A
10	AA	913	U
10	AA	920	G
10	AA	938	U
10	AA	941	A
10	AA	942	U
10	AA	943	U
10	AA	944	A
10	AA	970	A
10	AA	971	A
10	AA	975	G
10	AA	976	A
10	AA	978	C
10	AA	982	U
10	AA	1002	U
10	AA	1004	A
10	AA	1005	A
10	AA	1006	C
10	AA	1007	U
10	AA	1008	A
10	AA	1009	U
10	AA	1010	A
10	AA	1016	U
10	AA	1017	C
10	AA	1018	G
10	AA	1020	G
10	AA	1022	U
10	AA	1027	U
10	AA	1028	G
10	AA	1035	A
10	AA	1037	G
10	AA	1038	U
10	AA	1044	C
10	AA	1054	U

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Mol	Chain	Res	Type
10	AA	1055	G
10	AA	1063	A
10	AA	1064	A
10	AA	1065	A
10	AA	1066	G
10	AA	1069	U
10	AA	1070	U
10	AA	1071	U
10	AA	1072	G
10	AA	1073	G
10	AA	1081	G
10	AA	1085	A
10	AA	1086	G
10	AA	1087	U
10	AA	1088	A
10	AA	1089	U
10	AA	1090	G
10	AA	1111	A
10	AA	1123	G
10	AA	1124	A
10	AA	1131	C
10	AA	1132	A
10	AA	1140	U
10	AA	1142	G
10	AA	1155	A
10	AA	1158	U
10	AA	1163	U
10	AA	1165	A
10	AA	1166	A
10	AA	1168	A
10	AA	1169	C
10	AA	1172	G
10	AA	1173	G
10	AA	1174	A
10	AA	1175	A
10	AA	1176	A
10	AA	1179	C
10	AA	1180	A
10	AA	1189	A
10	AA	1190	G
10	AA	1191	A
10	AA	1192	C

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Mol	Chain	Res	Type
10	AA	1200	G
10	AA	1201	G
10	AA	1209	G
10	AA	1212	U
10	AA	1213	G
10	AA	1215	G
10	AA	1216	A
10	AA	1217	G
10	AA	1218	C
10	AA	1224	C
10	AA	1228	A
10	AA	1229	U
10	AA	1230	U
10	AA	1233	U
10	AA	1242	G
10	AA	1245	G
10	AA	1246	C
10	AA	1247	A
10	AA	1256	C
10	AA	1257	U
10	AA	1258	U
10	AA	1259	A
10	AA	1260	G
10	AA	1277	U
10	AA	1278	C
10	AA	1279	U
10	AA	1286	U
10	AA	1287	U
10	AA	1293	A
10	AA	1294	A
10	AA	1297	A
10	AA	1312	U
10	AA	1313	G
10	AA	1316	A
10	AA	1318	C
10	AA	1319	U
10	AA	1320	A
10	AA	1326	C
10	AA	1341	U
10	AA	1344	U
10	AA	1345	A
10	AA	1347	U

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Mol	Chain	Res	Type
10	AA	1359	C
10	AA	1360	U
10	AA	1369	A
10	AA	1370	U
10	AA	1373	G
10	AA	1384	U
10	AA	1385	U
10	AA	1398	A
10	AA	1404	G
10	AA	1407	A
10	AA	1416	G
10	AA	1417	A
10	AA	1418	C
10	AA	1419	G
10	AA	1428	C
10	AA	1429	G
10	AA	1430	C
10	AA	1431	A
10	AA	1444	U
10	AA	1452	G
10	AA	1453	C
10	AA	1458	A
10	AA	1463	U
10	AA	1466	C
10	AA	1481	A
10	AA	1488	A
10	AA	1489	U
10	AA	1490	C
10	AA	1492	U
10	AA	1493	A
10	AA	1495	U
10	AA	1496	A
10	AA	1507	U
10	AA	1508	G
10	AA	1509	U
10	AA	1510	U
10	AA	1511	A
10	AA	1512	G
10	AA	1514	G
10	AA	1526	G
10	AA	1529	U
10	AA	1531	G

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Mol	Chain	Res	Type
10	AA	1532	U
10	AA	1541	A
10	AA	1545	A
10	AA	1546	G
10	AA	1556	G
10	AA	1557	U
10	AA	1562	G
10	AA	1571	C
10	AA	1572	A
10	AA	1573	G
10	AA	1574	C
10	AA	1591	C
10	AA	1603	A
10	AA	1604	C
10	AA	1606	C
10	AA	1608	C
10	AA	1609	C
10	AA	1624	G
10	AA	1649	U
10	AA	1651	G
10	AA	1652	A
10	AA	1661	G
10	AA	1674	A
10	AA	1710	G
10	AA	1713	G
10	AA	1714	U
10	AA	1715	A
10	AA	1717	C
10	AA	1718	A
10	AA	1719	A
10	AA	1720	G
10	AA	1721	G
10	AA	1722	U
10	AA	1723	A
10	AA	1724	U
10	AA	1732	U
10	AA	1733	G
10	AA	1736	C
10	AA	1745	G
10	AA	1746	G
10	AA	1747	A
10	AA	1748	U

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Mol	Chain	Res	Type
10	AA	1749	C
10	AA	1750	A
10	AA	1751	U
10	AA	1752	U
10	AA	1753	A
10	BA	2	A
10	BA	3	C
10	BA	4	C
10	BA	9	U
10	BA	26	U
10	BA	27	A
10	BA	33	G
10	BA	41	U
10	BA	42	A
10	BA	44	U
10	BA	45	A
10	BA	46	A
10	BA	47	C
10	BA	50	A
10	BA	56	G
10	BA	59	C
10	BA	60	C
10	BA	64	U
10	BA	65	C
10	BA	66	A
10	BA	71	U
10	BA	72	G
10	BA	74	A
10	BA	76	A
10	BA	77	G
10	BA	84	U
10	BA	85	G
10	BA	89	A
10	BA	90	U
10	BA	95	C
10	BA	96	A
10	BA	98	U
10	BA	100	A
10	BA	101	A
10	BA	103	C
10	BA	110	A
10	BA	111	G

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Mol	Chain	Res	Type
10	BA	122	A
10	BA	124	U
10	BA	125	U
10	BA	126	A
10	BA	132	U
10	BA	134	C
10	BA	135	A
10	BA	136	U
10	BA	153	U
10	BA	161	U
10	BA	164	U
10	BA	165	A
10	BA	171	U
10	BA	172	U
10	BA	173	A
10	BA	182	U
10	BA	183	G
10	BA	188	G
10	BA	199	G
10	BA	210	A
10	BA	211	U
10	BA	212	A
10	BA	215	A
10	BA	225	C
10	BA	227	G
10	BA	228	C
10	BA	232	G
10	BA	237	U
10	BA	238	G
10	BA	246	U
10	BA	247	C
10	BA	258	A
10	BA	259	U
10	BA	263	A
10	BA	264	U
10	BA	271	U
10	BA	272	U
10	BA	273	A
10	BA	274	C
10	BA	288	C
10	BA	300	C
10	BA	303	A

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Mol	Chain	Res	Type
10	BA	304	U
10	BA	305	C
10	BA	307	G
10	BA	310	C
10	BA	311	U
10	BA	312	C
10	BA	313	G
10	BA	314	A
10	BA	315	U
10	BA	319	A
10	BA	320	G
10	BA	328	G
10	BA	329	A
10	BA	337	G
10	BA	342	U
10	BA	343	C
10	BA	344	A
10	BA	352	C
10	BA	361	A
10	BA	368	G
10	BA	369	A
10	BA	372	C
10	BA	379	A
10	BA	381	G
10	BA	391	A
10	BA	392	A
10	BA	393	C
10	BA	394	G
10	BA	408	C
10	BA	409	G
10	BA	414	G
10	BA	416	C
10	BA	418	G
10	BA	422	G
10	BA	431	U
10	BA	432	U
10	BA	436	C
10	BA	437	A
10	BA	445	U
10	BA	447	C
10	BA	448	A
10	BA	452	A

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Mol	Chain	Res	Type
10	BA	455	C
10	BA	460	A
10	BA	461	C
10	BA	479	G
10	BA	480	A
10	BA	482	A
10	BA	485	U
10	BA	486	A
10	BA	488	G
10	BA	495	C
10	BA	499	A
10	BA	500	U
10	BA	501	U
10	BA	503	A
10	BA	512	C
10	BA	513	A
10	BA	531	A
10	BA	533	G
10	BA	534	A
10	BA	535	A
10	BA	537	A
10	BA	538	A
10	BA	539	U
10	BA	544	G
10	BA	547	C
10	BA	548	A
10	BA	552	C
10	BA	553	A
10	BA	554	U
10	BA	558	G
10	BA	559	C
10	BA	560	C
10	BA	568	G
10	BA	573	A
10	BA	574	A
10	BA	575	U
10	BA	576	U
10	BA	577	C
10	BA	588	A
10	BA	589	G
10	BA	600	A
10	BA	601	G

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Mol	Chain	Res	Type
10	BA	602	U
10	BA	603	U
10	BA	604	G
10	BA	605	U
10	BA	607	G
10	BA	608	C
10	BA	613	A
10	BA	614	A
10	BA	616	A
10	BA	617	A
10	BA	631	C
10	BA	632	U
10	BA	633	U
10	BA	634	C
10	BA	635	U
10	BA	642	G
10	BA	643	U
10	BA	644	U
10	BA	648	U
10	BA	649	U
10	BA	655	C
10	BA	656	G
10	BA	668	U
10	BA	669	G
10	BA	670	G
10	BA	674	U
10	BA	675	A
10	BA	676	C
10	BA	677	G
10	BA	686	C
10	BA	707	U
10	BA	719	G
10	BA	748	U
10	BA	749	G
10	BA	750	U
10	BA	751	U
10	BA	757	C
10	BA	758	A
10	BA	761	U
10	BA	762	U
10	BA	763	U
10	BA	764	U

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Mol	Chain	Res	Type
10	BA	765	A
10	BA	766	G
10	BA	772	A
10	BA	778	U
10	BA	781	C
10	BA	786	A
10	BA	787	A
10	BA	793	G
10	BA	794	A
10	BA	795	A
10	BA	796	U
10	BA	797	A
10	BA	834	A
10	BA	835	U
10	BA	838	U
10	BA	840	A
10	BA	841	A
10	BA	842	U
10	BA	843	A
10	BA	850	G
10	BA	854	G
10	BA	859	A
10	BA	864	U
10	BA	865	A
10	BA	867	U
10	BA	869	A
10	BA	877	G
10	BA	882	G
10	BA	886	U
10	BA	887	U
10	BA	888	C
10	BA	890	U
10	BA	891	G
10	BA	892	G
10	BA	893	A
10	BA	894	U
10	BA	906	U
10	BA	907	A
10	BA	910	U
10	BA	911	A
10	BA	912	A
10	BA	913	U

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Mol	Chain	Res	Type
10	BA	920	G
10	BA	938	U
10	BA	941	A
10	BA	942	U
10	BA	943	U
10	BA	944	A
10	BA	966	A
10	BA	970	A
10	BA	971	A
10	BA	975	G
10	BA	976	A
10	BA	978	C
10	BA	982	U
10	BA	1001	A
10	BA	1002	U
10	BA	1004	A
10	BA	1005	A
10	BA	1006	C
10	BA	1007	U
10	BA	1008	A
10	BA	1009	U
10	BA	1010	A
10	BA	1016	U
10	BA	1017	C
10	BA	1018	G
10	BA	1020	G
10	BA	1022	U
10	BA	1027	U
10	BA	1028	G
10	BA	1035	A
10	BA	1037	G
10	BA	1038	U
10	BA	1044	C
10	BA	1054	U
10	BA	1055	G
10	BA	1063	A
10	BA	1064	A
10	BA	1065	A
10	BA	1066	G
10	BA	1069	U
10	BA	1070	U
10	BA	1071	U

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Mol	Chain	Res	Type
10	BA	1072	G
10	BA	1073	G
10	BA	1081	G
10	BA	1085	A
10	BA	1086	G
10	BA	1087	U
10	BA	1088	A
10	BA	1089	U
10	BA	1090	G
10	BA	1111	A
10	BA	1123	G
10	BA	1124	A
10	BA	1128	G
10	BA	1131	C
10	BA	1132	A
10	BA	1140	U
10	BA	1142	G
10	BA	1155	A
10	BA	1158	U
10	BA	1163	U
10	BA	1165	A
10	BA	1166	A
10	BA	1168	A
10	BA	1169	C
10	BA	1172	G
10	BA	1173	G
10	BA	1174	A
10	BA	1175	A
10	BA	1176	A
10	BA	1179	C
10	BA	1180	A
10	BA	1189	A
10	BA	1190	G
10	BA	1191	A
10	BA	1192	C
10	BA	1200	G
10	BA	1201	G
10	BA	1209	G
10	BA	1212	U
10	BA	1213	G
10	BA	1215	G
10	BA	1216	A

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Mol	Chain	Res	Type
10	BA	1217	G
10	BA	1218	C
10	BA	1228	A
10	BA	1229	U
10	BA	1230	U
10	BA	1233	U
10	BA	1242	G
10	BA	1245	G
10	BA	1246	C
10	BA	1247	A
10	BA	1256	C
10	BA	1257	U
10	BA	1258	U
10	BA	1259	A
10	BA	1260	G
10	BA	1277	U
10	BA	1278	C
10	BA	1279	U
10	BA	1286	U
10	BA	1287	U
10	BA	1293	A
10	BA	1294	A
10	BA	1297	A
10	BA	1312	U
10	BA	1313	G
10	BA	1316	A
10	BA	1318	C
10	BA	1319	U
10	BA	1320	A
10	BA	1326	C
10	BA	1341	U
10	BA	1344	U
10	BA	1345	A
10	BA	1347	U
10	BA	1359	C
10	BA	1360	U
10	BA	1369	A
10	BA	1370	U
10	BA	1373	G
10	BA	1383	G
10	BA	1384	U
10	BA	1385	U

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Mol	Chain	Res	Type
10	BA	1398	A
10	BA	1404	G
10	BA	1407	A
10	BA	1416	G
10	BA	1417	A
10	BA	1418	C
10	BA	1419	G
10	BA	1428	C
10	BA	1429	G
10	BA	1430	C
10	BA	1431	A
10	BA	1444	U
10	BA	1452	G
10	BA	1453	C
10	BA	1458	A
10	BA	1463	U
10	BA	1466	C
10	BA	1481	A
10	BA	1488	A
10	BA	1489	U
10	BA	1490	C
10	BA	1492	U
10	BA	1493	A
10	BA	1495	U
10	BA	1496	A
10	BA	1507	U
10	BA	1508	G
10	BA	1509	U
10	BA	1510	U
10	BA	1511	A
10	BA	1512	G
10	BA	1514	G
10	BA	1526	G
10	BA	1529	U
10	BA	1531	G
10	BA	1532	U
10	BA	1541	A
10	BA	1545	A
10	BA	1546	G
10	BA	1556	G
10	BA	1557	U
10	BA	1562	G

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Mol	Chain	Res	Type
10	BA	1571	C
10	BA	1572	A
10	BA	1573	G
10	BA	1574	C
10	BA	1591	C
10	BA	1603	A
10	BA	1604	C
10	BA	1606	C
10	BA	1608	C
10	BA	1609	C
10	BA	1624	G
10	BA	1649	U
10	BA	1651	G
10	BA	1652	A
10	BA	1661	G
10	BA	1674	A
10	BA	1710	G
10	BA	1713	G
10	BA	1714	U
10	BA	1715	A
10	BA	1717	C
10	BA	1718	A
10	BA	1719	A
10	BA	1720	G
10	BA	1721	G
10	BA	1722	U
10	BA	1723	A
10	BA	1724	U
10	BA	1732	U
10	BA	1733	G
10	BA	1736	C
10	BA	1745	G
10	BA	1746	G
10	BA	1747	A
10	BA	1748	U
10	BA	1749	C
10	BA	1750	A
10	BA	1751	U
10	BA	1752	U
10	BA	1753	A

All (388) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
10	AA	2	A
10	AA	3	C
10	AA	8	U
10	AA	41	U
10	AA	44	U
10	AA	45	A
10	AA	46	A
10	AA	55	U
10	AA	64	U
10	AA	65	C
10	AA	71	U
10	AA	73	A
10	AA	89	A
10	AA	95	C
10	AA	99	A
10	AA	100	A
10	AA	110	A
10	AA	123	A
10	AA	125	U
10	AA	133	A
10	AA	134	C
10	AA	135	A
10	AA	152	U
10	AA	164	U
10	AA	198	C
10	AA	210	A
10	AA	245	A
10	AA	246	U
10	AA	258	A
10	AA	262	G
10	AA	263	A
10	AA	271	U
10	AA	303	A
10	AA	306	A
10	AA	312	C
10	AA	313	G
10	AA	328	G
10	AA	336	U
10	AA	341	G
10	AA	342	U
10	AA	343	C
10	AA	360	U
10	AA	371	U

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Mol	Chain	Res	Type
10	AA	378	A
10	AA	380	G
10	AA	391	A
10	AA	392	A
10	AA	407	A
10	AA	408	C
10	AA	413	C
10	AA	415	G
10	AA	430	A
10	AA	431	U
10	AA	436	C
10	AA	444	A
10	AA	446	U
10	AA	451	G
10	AA	460	A
10	AA	498	C
10	AA	531	A
10	AA	533	G
10	AA	536	C
10	AA	538	A
10	AA	547	C
10	AA	551	U
10	AA	553	A
10	AA	558	G
10	AA	572	U
10	AA	574	A
10	AA	576	U
10	AA	588	A
10	AA	600	A
10	AA	601	G
10	AA	602	U
10	AA	603	U
10	AA	607	G
10	AA	616	A
10	AA	617	A
10	AA	632	U
10	AA	633	U
10	AA	643	U
10	AA	648	U
10	AA	674	U
10	AA	675	A
10	AA	676	C

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Mol	Chain	Res	Type
10	AA	748	U
10	AA	750	U
10	AA	756	G
10	AA	761	U
10	AA	763	U
10	AA	764	U
10	AA	765	A
10	AA	771	A
10	AA	786	A
10	AA	793	G
10	AA	794	A
10	AA	795	A
10	AA	796	U
10	AA	834	A
10	AA	837	A
10	AA	840	A
10	AA	876	A
10	AA	887	U
10	AA	892	G
10	AA	906	U
10	AA	910	U
10	AA	911	A
10	AA	937	U
10	AA	942	U
10	AA	981	A
10	AA	1001	A
10	AA	1004	A
10	AA	1006	C
10	AA	1008	A
10	AA	1009	U
10	AA	1034	A
10	AA	1036	U
10	AA	1063	A
10	AA	1064	A
10	AA	1065	A
10	AA	1069	U
10	AA	1070	U
10	AA	1071	U
10	AA	1072	G
10	AA	1080	G
10	AA	1085	A
10	AA	1086	G

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Mol	Chain	Res	Type
10	AA	1088	A
10	AA	1092	U
10	AA	1110	A
10	AA	1131	C
10	AA	1157	U
10	AA	1162	C
10	AA	1165	A
10	AA	1171	G
10	AA	1172	G
10	AA	1179	C
10	AA	1188	A
10	AA	1189	A
10	AA	1199	G
10	AA	1200	G
10	AA	1217	G
10	AA	1227	G
10	AA	1228	A
10	AA	1241	U
10	AA	1245	G
10	AA	1256	C
10	AA	1257	U
10	AA	1259	A
10	AA	1277	U
10	AA	1278	C
10	AA	1293	A
10	AA	1311	C
10	AA	1312	U
10	AA	1318	C
10	AA	1319	U
10	AA	1358	A
10	AA	1384	U
10	AA	1403	U
10	AA	1406	G
10	AA	1416	G
10	AA	1418	C
10	AA	1430	C
10	AA	1443	A
10	AA	1480	U
10	AA	1487	A
10	AA	1488	A
10	AA	1492	U
10	AA	1495	U

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Mol	Chain	Res	Type
10	AA	1507	U
10	AA	1510	U
10	AA	1511	A
10	AA	1530	U
10	AA	1540	G
10	AA	1545	A
10	AA	1555	A
10	AA	1556	G
10	AA	1573	G
10	AA	1590	C
10	AA	1603	A
10	AA	1605	A
10	AA	1608	C
10	AA	1623	A
10	AA	1717	C
10	AA	1718	A
10	AA	1720	G
10	AA	1721	G
10	AA	1722	U
10	AA	1744	U
10	AA	1745	G
10	AA	1746	G
10	AA	1748	U
10	AA	1749	C
10	AA	1751	U
10	BA	2	A
10	BA	3	C
10	BA	8	U
10	BA	41	U
10	BA	44	U
10	BA	45	A
10	BA	46	A
10	BA	55	U
10	BA	64	U
10	BA	65	C
10	BA	71	U
10	BA	73	A
10	BA	89	A
10	BA	95	C
10	BA	99	A
10	BA	100	A
10	BA	110	A

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Mol	Chain	Res	Type
10	BA	123	A
10	BA	125	U
10	BA	133	A
10	BA	134	C
10	BA	135	A
10	BA	152	U
10	BA	164	U
10	BA	198	C
10	BA	210	A
10	BA	245	A
10	BA	246	U
10	BA	258	A
10	BA	262	G
10	BA	263	A
10	BA	271	U
10	BA	303	A
10	BA	306	A
10	BA	312	C
10	BA	313	G
10	BA	328	G
10	BA	336	U
10	BA	341	G
10	BA	342	U
10	BA	343	C
10	BA	360	U
10	BA	371	U
10	BA	378	A
10	BA	380	G
10	BA	391	A
10	BA	392	A
10	BA	407	A
10	BA	408	C
10	BA	413	C
10	BA	415	G
10	BA	430	A
10	BA	431	U
10	BA	436	C
10	BA	444	A
10	BA	446	U
10	BA	451	G
10	BA	460	A
10	BA	498	C

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Mol	Chain	Res	Type
10	BA	531	A
10	BA	533	G
10	BA	536	C
10	BA	538	A
10	BA	547	C
10	BA	551	U
10	BA	553	A
10	BA	558	G
10	BA	572	U
10	BA	574	A
10	BA	576	U
10	BA	588	A
10	BA	600	A
10	BA	601	G
10	BA	602	U
10	BA	603	U
10	BA	607	G
10	BA	616	A
10	BA	617	A
10	BA	632	U
10	BA	633	U
10	BA	643	U
10	BA	648	U
10	BA	674	U
10	BA	675	A
10	BA	676	C
10	BA	748	U
10	BA	750	U
10	BA	756	G
10	BA	761	U
10	BA	763	U
10	BA	764	U
10	BA	765	A
10	BA	771	A
10	BA	786	A
10	BA	793	G
10	BA	794	A
10	BA	795	A
10	BA	796	U
10	BA	834	A
10	BA	837	A
10	BA	840	A

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Mol	Chain	Res	Type
10	BA	876	A
10	BA	887	U
10	BA	892	G
10	BA	906	U
10	BA	910	U
10	BA	911	A
10	BA	937	U
10	BA	941	A
10	BA	942	U
10	BA	981	A
10	BA	1001	A
10	BA	1004	A
10	BA	1006	C
10	BA	1008	A
10	BA	1009	U
10	BA	1034	A
10	BA	1036	U
10	BA	1063	A
10	BA	1064	A
10	BA	1065	A
10	BA	1069	U
10	BA	1070	U
10	BA	1071	U
10	BA	1072	G
10	BA	1080	G
10	BA	1085	A
10	BA	1086	G
10	BA	1088	A
10	BA	1092	U
10	BA	1110	A
10	BA	1131	C
10	BA	1157	U
10	BA	1162	C
10	BA	1165	A
10	BA	1171	G
10	BA	1172	G
10	BA	1179	C
10	BA	1188	A
10	BA	1189	A
10	BA	1199	G
10	BA	1200	G
10	BA	1217	G

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Mol	Chain	Res	Type
10	BA	1227	G
10	BA	1228	A
10	BA	1241	U
10	BA	1245	G
10	BA	1256	C
10	BA	1257	U
10	BA	1259	A
10	BA	1277	U
10	BA	1278	C
10	BA	1293	A
10	BA	1311	C
10	BA	1312	U
10	BA	1318	C
10	BA	1319	U
10	BA	1358	A
10	BA	1384	U
10	BA	1403	U
10	BA	1406	G
10	BA	1416	G
10	BA	1418	C
10	BA	1430	C
10	BA	1443	A
10	BA	1480	U
10	BA	1487	A
10	BA	1488	A
10	BA	1492	U
10	BA	1495	U
10	BA	1507	U
10	BA	1510	U
10	BA	1511	A
10	BA	1530	U
10	BA	1540	G
10	BA	1545	A
10	BA	1555	A
10	BA	1556	G
10	BA	1573	G
10	BA	1590	C
10	BA	1605	A
10	BA	1608	C
10	BA	1623	A
10	BA	1717	C
10	BA	1718	A

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Mol	Chain	Res	Type
10	BA	1720	G
10	BA	1721	G
10	BA	1722	U
10	BA	1744	U
10	BA	1745	G
10	BA	1746	G
10	BA	1748	U
10	BA	1749	C
10	BA	1751	U

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 192 ligands modelled in this entry, 192 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	A1	67/68 (98%)	0.57	4 (5%) 27 23	99, 157, 220, 262	0
1	B1	67/68 (98%)	0.46	2 (2%) 52 37	99, 157, 220, 262	0
2	A2	207/208 (99%)	0.53	14 (6%) 23 21	96, 144, 194, 231	0
2	B2	207/208 (99%)	0.58	11 (5%) 32 26	98, 145, 194, 231	0
3	A3	196/197 (99%)	0.47	8 (4%) 41 31	82, 138, 187, 267	0
3	B3	196/197 (99%)	0.37	7 (3%) 46 33	75, 138, 186, 266	0
4	A4	215/265 (81%)	0.28	0 100 100	80, 146, 201, 228	0
4	B4	215/265 (81%)	0.52	6 (2%) 55 39	77, 145, 202, 229	0
5	A5	98/119 (82%)	0.43	4 (4%) 41 31	71, 124, 201, 246	0
5	B5	98/119 (82%)	0.53	4 (4%) 41 31	68, 124, 201, 246	0
6	A6	80/81 (98%)	0.25	3 (3%) 44 32	86, 130, 172, 187	0
6	B6	80/81 (98%)	0.35	2 (2%) 58 41	86, 128, 172, 186	0
7	A7	104/162 (64%)	0.68	3 (2%) 53 38	100, 150, 201, 249	0
7	B7	104/162 (64%)	0.56	2 (1%) 66 47	104, 151, 199, 249	0
8	A8	93/143 (65%)	0.55	2 (2%) 62 44	112, 159, 219, 255	0
8	B8	93/143 (65%)	0.68	5 (5%) 31 25	110, 159, 218, 256	0
9	A9	73/189 (38%)	0.96	11 (15%) 5 8	146, 185, 238, 253	0
9	B9	73/189 (38%)	1.10	10 (13%) 6 10	148, 186, 238, 254	0
10	AA	1745/1753 (99%)	0.86	184 (10%) 11 13	80, 134, 291, 454	0
10	BA	1745/1753 (99%)	0.91	193 (11%) 10 13	80, 134, 291, 454	0
11	AB	204/241 (84%)	0.44	2 (0%) 79 59	82, 136, 177, 225	0
11	BB	204/241 (84%)	0.44	3 (1%) 72 51	78, 136, 177, 224	0
12	AC	229/243 (94%)	0.50	7 (3%) 51 36	89, 131, 194, 244	0
12	BC	229/243 (94%)	0.41	10 (4%) 39 29	87, 132, 194, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AD	179/181 (98%)	0.55	7 (3%) 43 31	77, 122, 182, 214	0
13	BD	179/181 (98%)	0.42	6 (3%) 48 34	82, 125, 184, 215	0
14	AE	230/296 (77%)	0.35	5 (2%) 62 44	62, 114, 194, 243	0
14	BE	230/296 (77%)	0.29	6 (2%) 57 40	65, 116, 194, 244	0
15	AF	89/101 (88%)	0.39	1 (1%) 78 58	87, 136, 190, 230	0
15	BF	89/101 (88%)	0.38	2 (2%) 62 44	86, 137, 190, 229	0
16	AG	192/200 (96%)	0.37	5 (2%) 57 40	86, 140, 191, 286	0
16	BG	192/200 (96%)	0.56	12 (6%) 26 22	86, 140, 191, 287	0
17	AH	129/130 (99%)	0.45	6 (4%) 36 28	65, 105, 154, 194	0
17	BH	129/130 (99%)	0.48	6 (4%) 36 28	62, 106, 154, 193	0
18	AI	143/145 (98%)	0.60	10 (6%) 22 20	87, 135, 188, 222	0
18	BI	143/145 (98%)	0.62	15 (10%) 11 13	87, 135, 189, 221	0
19	AJ	105/120 (87%)	0.67	7 (6%) 24 21	84, 132, 199, 218	0
19	BJ	105/120 (87%)	0.66	10 (9%) 14 15	86, 133, 198, 218	0
20	AK	140/151 (92%)	0.60	4 (2%) 53 38	93, 144, 191, 223	0
20	BK	140/151 (92%)	0.53	4 (2%) 53 38	90, 144, 192, 224	0
21	AL	141/142 (99%)	0.41	5 (3%) 47 33	71, 126, 169, 213	0
21	BL	141/142 (99%)	0.56	9 (6%) 25 22	74, 128, 169, 212	0
22	AM	154/155 (99%)	0.47	4 (2%) 57 40	94, 154, 204, 233	0
22	BM	154/155 (99%)	0.64	13 (8%) 17 17	95, 155, 205, 233	0
23	AN	53/55 (96%)	0.43	4 (7%) 20 19	83, 124, 156, 193	0
23	BN	53/55 (96%)	0.46	3 (5%) 29 24	83, 126, 157, 192	0
24	AO	150/153 (98%)	0.50	5 (3%) 49 35	73, 124, 223, 287	0
24	BO	150/153 (98%)	0.48	8 (5%) 32 26	71, 124, 222, 288	0
25	AP	148/149 (99%)	0.42	3 (2%) 65 46	92, 141, 168, 200	0
25	BP	148/149 (99%)	0.47	7 (4%) 36 28	94, 141, 170, 200	0
26	AQ	157/157 (100%)	0.40	7 (4%) 38 29	69, 129, 214, 227	0
26	BQ	157/157 (100%)	0.45	5 (3%) 50 36	65, 128, 208, 258	0
27	AR	338/343 (98%)	0.42	7 (2%) 63 45	93, 146, 218, 268	0
27	BR	338/343 (98%)	0.47	14 (4%) 41 31	94, 145, 209, 244	0
28	AS	125/144 (86%)	0.63	8 (6%) 25 22	117, 164, 222, 245	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	BS	125/144 (86%)	0.58	3 (2%) 59 43	119, 165, 222, 245	0
29	AT	150/155 (96%)	0.60	9 (6%) 27 23	80, 152, 191, 230	0
29	BT	150/155 (96%)	0.47	6 (4%) 42 31	79, 151, 192, 229	0
30	AU	124/126 (98%)	0.99	18 (14%) 6 9	117, 177, 213, 227	0
30	BU	124/126 (98%)	0.94	13 (10%) 11 13	136, 185, 221, 250	0
31	AV	121/130 (93%)	0.40	4 (3%) 49 35	78, 143, 206, 254	0
31	BV	121/130 (93%)	0.46	4 (3%) 49 35	76, 142, 206, 253	0
32	AW	259/260 (99%)	0.37	4 (1%) 72 51	84, 125, 166, 200	0
32	BW	259/260 (99%)	0.39	7 (2%) 56 39	87, 126, 167, 199	0
33	AX	68/80 (85%)	0.55	3 (4%) 39 29	106, 155, 242, 271	0
33	BX	68/80 (85%)	0.64	5 (7%) 20 19	107, 158, 243, 271	0
34	AY	235/293 (80%)	0.59	11 (4%) 36 28	108, 159, 237, 316	0
34	BY	235/293 (80%)	0.66	9 (3%) 44 32	110, 159, 237, 315	0
35	AZ	97/97 (100%)	0.25	2 (2%) 63 45	74, 129, 185, 209	0
35	BZ	97/97 (100%)	0.12	1 (1%) 79 59	77, 129, 184, 210	0
All	All	13676/14864 (92%)	0.59	804 (5%) 28 24	62, 139, 215, 454	0

All (804) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
10	BA	211	U	17.5
10	AA	211	U	9.0
10	BA	213	U	7.6
10	AA	683	A	7.4
10	AA	684	A	6.6
18	AI	140	MET	6.3
10	BA	212	A	6.2
13	AD	1	MET	5.9
8	B8	27	LYS	5.8
16	AG	76	ARG	5.8
27	BR	305	GLN	5.7
10	BA	982	U	5.7
30	AU	45	CYS	5.7
10	AA	709	G	5.6
18	AI	141	GLN	5.5
10	AA	717	G	5.5
10	AA	1699	A	5.5

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Mol	Chain	Res	Type	RSRZ
10	BA	495	C	5.5
10	AA	1721	G	5.4
28	BS	134	GLY	5.4
14	BE	206	ARG	5.3
10	BA	684	A	5.2
10	AA	716	G	5.1
10	AA	210	A	5.0
13	BD	1	MET	5.0
27	BR	302	ALA	4.8
10	BA	232	G	4.8
29	AT	41	THR	4.7
10	BA	235	A	4.7
10	BA	813	U	4.7
10	BA	233	U	4.7
10	AA	708	C	4.7
10	BA	1722	U	4.6
22	BM	100	MET	4.6
18	BI	144	TYR	4.5
18	BI	145	ARG	4.5
18	AI	134	ARG	4.5
27	AR	163	ASP	4.4
10	AA	713	U	4.4
10	BA	210	A	4.4
10	BA	494	A	4.4
20	BK	151	LEU	4.3
10	AA	657	U	4.3
10	AA	482	A	4.3
10	AA	565	G	4.3
33	AX	74	ALA	4.3
6	A6	66	GLY	4.2
31	BV	2	GLY	4.2
2	A2	30	GLY	4.2
13	BD	2	GLY	4.2
16	BG	76	ARG	4.2
10	BA	227	G	4.1
10	BA	656	G	4.1
10	BA	821	C	4.1
12	AC	161	ILE	4.1
10	AA	813	U	4.1
10	AA	537	A	4.1
3	A3	107	GLU	4.1
26	AQ	7	ARG	4.1

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Mol	Chain	Res	Type	RSRZ
10	BA	692	U	4.0
5	A5	13	LYS	4.0
2	B2	15	GLY	4.0
12	AC	44	ARG	4.0
10	AA	694	G	4.0
10	BA	1721	G	4.0
30	AU	95	LYS	4.0
26	BQ	104	ARG	3.9
30	AU	108	TYR	3.9
10	AA	762	U	3.9
18	BI	143	ALA	3.9
10	BA	565	G	3.9
34	BY	182	LEU	3.9
21	BL	47	HIS	3.9
10	BA	1511	A	3.9
10	AA	236	U	3.9
10	BA	328	G	3.9
24	AO	9	LYS	3.9
10	BA	716	G	3.8
10	BA	1368	A	3.8
10	AA	214	U	3.8
10	AA	272	U	3.8
13	AD	2	GLY	3.8
18	BI	72	ARG	3.8
10	BA	553	A	3.8
10	AA	706	U	3.8
10	BA	691	A	3.8
10	BA	493	U	3.8
29	AT	89	ARG	3.7
10	BA	76	A	3.7
10	AA	328	G	3.7
10	BA	1370	U	3.7
10	AA	228	C	3.7
10	AA	235	A	3.7
10	BA	480	A	3.7
10	AA	656	G	3.7
10	BA	717	G	3.7
10	BA	693	C	3.7
27	AR	336	PHE	3.7
10	AA	494	A	3.7
27	BR	298	PRO	3.7
10	BA	690	A	3.6

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Mol	Chain	Res	Type	RSRZ
10	BA	683	A	3.6
10	BA	762	U	3.6
9	A9	72	LYS	3.6
13	AD	51	LYS	3.6
10	AA	682	C	3.6
3	A3	47	GLU	3.6
12	BC	41	GLU	3.6
10	BA	573	A	3.6
10	BA	236	U	3.6
30	BU	55	TYR	3.6
30	BU	108	TYR	3.6
9	A9	73	LYS	3.6
26	AQ	29	ALA	3.6
35	AZ	58	GLY	3.6
10	AA	705	G	3.6
10	BA	669	G	3.6
10	BA	1699	A	3.6
10	BA	820	U	3.6
10	BA	1665	U	3.6
23	AN	55	ARG	3.6
12	AC	183	GLY	3.6
20	AK	102	GLY	3.5
10	BA	1190	G	3.5
10	AA	1257	U	3.5
3	B3	197	LYS	3.5
19	BJ	111	GLU	3.5
34	AY	155	LEU	3.5
10	AA	212	A	3.5
10	BA	221	A	3.5
10	BA	417	A	3.5
7	B7	26	LYS	3.4
29	BT	48	GLU	3.4
10	BA	1223	U	3.4
10	BA	481	A	3.4
21	BL	118	GLY	3.4
18	BI	134	ARG	3.4
10	AA	986	G	3.4
10	BA	695	G	3.4
10	BA	125	U	3.4
10	AA	239	A	3.4
10	BA	1753	A	3.4
30	AU	126	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
2	B2	16	GLY	3.4
10	AA	483	C	3.4
10	AA	493	U	3.4
10	AA	76	A	3.4
10	AA	1369	A	3.4
28	BS	135	LYS	3.4
19	BJ	98	VAL	3.4
10	BA	1055	G	3.4
10	AA	1722	U	3.4
33	BX	74	ALA	3.3
4	B4	229	LEU	3.3
10	BA	1369	A	3.3
12	AC	13	LYS	3.3
13	AD	173	LYS	3.3
22	AM	141	SER	3.3
12	BC	183	GLY	3.3
18	AI	135	GLY	3.3
24	AO	30	MET	3.3
10	BA	657	U	3.3
19	AJ	14	VAL	3.3
26	AQ	30	GLY	3.3
12	AC	162	CYS	3.3
10	BA	157	G	3.3
10	BA	226	A	3.3
8	A8	101	ASN	3.2
10	AA	495	C	3.2
10	BA	1318	C	3.2
17	AH	100	GLY	3.2
10	BA	814	A	3.2
10	AA	880	G	3.2
25	AP	64	GLY	3.2
10	BA	270	U	3.2
14	AE	53	ILE	3.2
10	BA	492	C	3.2
13	BD	173	LYS	3.2
5	A5	33	ASP	3.2
23	BN	55	ARG	3.2
9	B9	92	HIS	3.2
8	B8	101	ASN	3.2
35	BZ	66	ASN	3.2
10	AA	690	A	3.2
10	AA	1207	C	3.2

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Mol	Chain	Res	Type	RSRZ
22	BM	147	VAL	3.2
10	BA	1217	G	3.2
9	B9	89	ARG	3.2
7	A7	15	GLN	3.2
10	BA	537	A	3.1
21	BL	114	GLY	3.1
30	AU	99	GLY	3.1
13	BD	172	THR	3.1
10	BA	694	G	3.1
10	BA	705	G	3.1
10	BA	798	G	3.1
10	AA	676	C	3.1
2	B2	35	MET	3.1
32	AW	22	LYS	3.1
10	AA	715	G	3.1
10	BA	479	G	3.1
10	BA	747	G	3.1
10	BA	1364	G	3.1
30	AU	43	PHE	3.1
27	BR	307	GLY	3.1
10	BA	498	C	3.1
27	BR	303	GLU	3.1
10	AA	237	U	3.1
10	BA	816	U	3.1
10	AA	1205	G	3.1
10	BA	234	G	3.1
2	A2	150	ARG	3.1
18	BI	116	ARG	3.1
10	BA	304	U	3.0
11	BB	14	LEU	3.0
10	AA	617	A	3.0
10	AA	689	A	3.0
10	AA	1511	A	3.0
16	BG	73	PHE	3.0
4	B4	65	GLY	3.0
29	AT	12	ASP	3.0
10	AA	1230	U	3.0
9	A9	128	HIS	3.0
2	B2	12	ARG	3.0
10	BA	718	A	3.0
10	BA	826	A	3.0
24	BO	7	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
30	AU	46	VAL	3.0
11	AB	17	ASN	3.0
10	BA	806	U	3.0
12	BC	62	ILE	3.0
7	A7	40	LEU	3.0
12	BC	87	ILE	3.0
19	BJ	109	GLY	3.0
32	BW	230	LEU	3.0
19	BJ	14	VAL	3.0
10	AA	70	U	3.0
10	AA	707	U	3.0
2	B2	47	GLU	2.9
6	A6	67	GLY	2.9
19	BJ	71	GLY	2.9
10	AA	230	A	2.9
10	BA	162	A	2.9
10	BA	1664	A	2.9
30	AU	93	GLU	2.9
18	AI	143	ALA	2.9
23	BN	32	LYS	2.9
30	AU	103	LEU	2.9
14	AE	206	ARG	2.9
17	BH	2	VAL	2.9
10	AA	426	G	2.9
10	AA	761	U	2.9
10	BA	1334	U	2.9
34	AY	1	MET	2.9
27	AR	192	TRP	2.9
12	BC	97	LYS	2.9
10	BA	1493	A	2.9
10	BA	225	C	2.9
10	BA	807	C	2.9
10	BA	709	G	2.9
12	BC	61	VAL	2.9
10	BA	599	A	2.8
17	AH	2	VAL	2.8
4	B4	23	ILE	2.8
16	AG	52	GLN	2.8
10	AA	172	U	2.8
10	BA	219	C	2.8
10	BA	1604	C	2.8
10	AA	227	G	2.8

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Mol	Chain	Res	Type	RSRZ
10	AA	232	G	2.8
10	BA	1199	G	2.8
20	AK	38	ASN	2.8
27	BR	249	GLN	2.8
10	AA	640	A	2.8
9	B9	94	LYS	2.8
19	AJ	66	ARG	2.8
18	BI	56	LEU	2.8
21	AL	114	GLY	2.8
13	BD	16	ARG	2.8
1	A1	2	ASN	2.8
8	B8	26	GLY	2.8
24	BO	10	GLY	2.8
10	BA	126	A	2.8
2	A2	145	ARG	2.8
10	AA	8	U	2.8
10	BA	484	U	2.8
10	BA	1207	C	2.8
10	BA	1402	C	2.8
22	AM	132	LYS	2.8
28	AS	84	HIS	2.8
10	AA	681	G	2.8
17	AH	28	ARG	2.8
12	AC	184	ILE	2.8
10	AA	714	A	2.8
10	AA	982	U	2.8
21	BL	39	ARG	2.7
10	BA	218	C	2.7
10	AA	745	G	2.7
10	AA	1199	G	2.7
10	BA	1302	G	2.7
3	B3	3	LEU	2.7
3	A3	108	HIS	2.7
10	AA	481	A	2.7
10	BA	220	A	2.7
10	AA	484	U	2.7
10	BA	1257	U	2.7
14	BE	118	VAL	2.7
17	BH	29	PRO	2.7
14	AE	74	GLU	2.7
2	A2	52	ARG	2.7
2	B2	52	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
10	AA	1181	C	2.7
10	BA	696	C	2.7
10	BA	711	C	2.7
2	A2	187	ASP	2.7
16	BG	161	MET	2.7
16	BG	170	ASP	2.7
10	AA	573	A	2.7
10	AA	1171	G	2.7
10	AA	1417	A	2.7
10	BA	414	G	2.7
5	B5	9	GLY	2.7
17	BH	39	ARG	2.7
10	AA	44	U	2.7
10	BA	360	U	2.7
10	BA	644	U	2.7
10	BA	687	U	2.7
10	BA	1007	U	2.7
9	B9	72	LYS	2.7
9	B9	132	HIS	2.7
5	B5	99	PRO	2.7
10	AA	1224	C	2.7
10	BA	75	C	2.7
5	A5	9	GLY	2.7
31	BV	3	ARG	2.7
10	AA	220	A	2.7
10	AA	1651	G	2.7
10	BA	712	U	2.7
10	BA	817	G	2.7
27	BR	304	GLY	2.7
21	BL	100	GLU	2.7
23	AN	32	LYS	2.7
25	BP	89	LEU	2.7
26	BQ	28	SER	2.7
6	A6	23	ILE	2.6
9	A9	143	ILE	2.6
34	BY	172	ASP	2.6
10	BA	239	A	2.6
10	BA	685	A	2.6
10	BA	1660	A	2.6
10	AA	43	U	2.6
10	BA	491	U	2.6
10	AA	479	G	2.6

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Mol	Chain	Res	Type	RSRZ
10	AA	695	G	2.6
10	AA	1217	G	2.6
10	BA	16	G	2.6
17	BH	88	LYS	2.6
10	BA	1659	C	2.6
7	B7	33	GLU	2.6
10	AA	1664	A	2.6
10	AA	1747	A	2.6
10	BA	230	A	2.6
16	BG	35	CYS	2.6
30	AU	34	ARG	2.6
9	A9	74	LYS	2.6
9	A9	127	LYS	2.6
10	AA	233	U	2.6
10	BA	815	U	2.6
34	BY	174	THR	2.6
10	BA	1123	G	2.6
29	BT	139	GLU	2.6
35	AZ	9	ARG	2.6
10	AA	393	C	2.6
10	BA	393	C	2.6
21	AL	107	GLY	2.6
16	BG	105	GLU	2.6
10	AA	63	U	2.6
10	AA	687	U	2.6
10	BA	271	U	2.6
10	BA	1751	U	2.6
18	AI	132	GLY	2.6
12	BC	180	PHE	2.6
34	BY	128	THR	2.6
2	A2	111	GLU	2.6
12	BC	184	ILE	2.6
18	BI	138	SER	2.6
5	B5	98	ARG	2.6
10	AA	686	C	2.6
10	BA	1131	C	2.6
22	BM	132	LYS	2.6
26	BQ	80	ASN	2.6
10	BA	1198	A	2.6
34	AY	224	ALA	2.6
10	AA	1360	U	2.6
19	AJ	70	CYS	2.5

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Mol	Chain	Res	Type	RSRZ
34	AY	18	ILE	2.5
27	BR	295	GLU	2.5
10	BA	199	G	2.5
10	AA	547	C	2.5
14	BE	75	HIS	2.5
11	BB	36	LYS	2.5
2	B2	17	ARG	2.5
10	AA	100	A	2.5
10	AA	1005	A	2.5
10	BA	993	U	2.5
30	BU	103	LEU	2.5
26	AQ	1	MET	2.5
25	AP	118	LYS	2.5
30	AU	120	ILE	2.5
16	BG	125	THR	2.5
3	B3	108	HIS	2.5
9	A9	92	HIS	2.5
10	AA	58	G	2.5
10	BA	58	G	2.5
10	BA	1201	G	2.5
10	BA	1651	G	2.5
19	BJ	118	ALA	2.5
10	AA	691	A	2.5
10	AA	1493	A	2.5
10	BA	214	U	2.5
10	BA	1206	A	2.5
10	BA	1605	A	2.5
28	BS	121	LEU	2.5
3	B3	104	TRP	2.5
7	A7	34	GLU	2.5
2	B2	80	ILE	2.5
9	B9	113	GLN	2.5
24	BO	15	GLY	2.5
18	BI	126	MET	2.5
10	BA	686	C	2.5
10	AA	669	G	2.5
10	BA	496	G	2.5
10	BA	1142	G	2.5
10	BA	1661	G	2.5
10	BA	1746	G	2.5
27	BR	159	GLU	2.5
10	AA	222	U	2.5

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Mol	Chain	Res	Type	RSRZ
10	BA	172	U	2.5
10	BA	1230	U	2.5
10	AA	1	A	2.5
19	AJ	15	LYS	2.5
20	BK	110	PRO	2.5
2	B2	145	ARG	2.5
20	BK	50	ARG	2.5
30	BU	29	LEU	2.5
32	BW	244	ASP	2.5
1	B1	56	GLU	2.4
12	AC	138	GLU	2.4
17	AH	9	GLU	2.4
34	BY	183	ILE	2.4
16	AG	77	ASN	2.4
23	AN	3	ASN	2.4
19	BJ	66	ARG	2.4
33	AX	34	ARG	2.4
32	BW	109	GLY	2.4
10	AA	984	C	2.4
10	BA	708	C	2.4
10	BA	41	U	2.4
10	BA	476	U	2.4
10	AA	1514	G	2.4
10	BA	238	G	2.4
10	BA	745	G	2.4
31	AV	23	LYS	2.4
8	A8	41	HIS	2.4
30	AU	31	GLU	2.4
3	A3	104	TRP	2.4
33	BX	72	ALA	2.4
5	A5	98	ARG	2.4
30	BU	27	LYS	2.4
16	AG	35	CYS	2.4
21	BL	111	HIS	2.4
10	AA	125	U	2.4
10	AA	692	U	2.4
10	AA	812	U	2.4
10	AA	1714	U	2.4
34	BY	181	ARG	2.4
10	AA	1702	A	2.4
10	BA	983	A	2.4
10	BA	825	G	2.4

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Mol	Chain	Res	Type	RSRZ
10	BA	1506	G	2.4
10	BA	1720	G	2.4
25	BP	118	LYS	2.4
16	BG	158	PHE	2.4
24	BO	148	ALA	2.4
34	BY	180	GLN	2.4
14	AE	56	LYS	2.4
16	AG	159	LYS	2.4
3	B3	162	PHE	2.4
27	BR	299	ILE	2.4
10	AA	808	C	2.4
10	AA	229	A	2.4
13	AD	12	TYR	2.4
28	AS	58	TYR	2.4
10	BA	415	G	2.4
3	A3	62	LEU	2.4
28	AS	21	LEU	2.4
29	AT	105	ARG	2.4
27	AR	125	ALA	2.4
16	BG	132	GLN	2.3
31	BV	23	LYS	2.4
2	A2	146	HIS	2.3
10	AA	1002	U	2.3
33	AX	63	HIS	2.3
24	AO	8	GLY	2.3
29	BT	6	SER	2.3
10	AA	226	A	2.3
10	AA	983	A	2.3
10	BA	797	A	2.3
10	BA	1747	A	2.3
31	AV	117	LEU	2.3
3	A3	61	VAL	2.3
10	AA	607	G	2.3
10	AA	1300	G	2.3
10	BA	1205	G	2.3
10	BA	1666	G	2.3
18	BI	3	GLN	2.3
30	AU	85	HIS	2.3
24	BO	14	SER	2.3
26	AQ	28	SER	2.3
22	BM	90	ASN	2.3
23	BN	3	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	A1	60	CYS	2.3
22	BM	151	VAL	2.3
31	BV	85	VAL	2.3
10	AA	1385	U	2.3
2	A2	35	MET	2.3
19	BJ	15	LYS	2.3
22	BM	108	LYS	2.3
10	AA	163	A	2.3
10	AA	524	C	2.3
10	AA	696	C	2.3
12	BC	182	GLN	2.3
13	BD	169	GLU	2.3
15	BF	13	ASP	2.3
21	AL	111	HIS	2.3
21	BL	67	VAL	2.3
26	AQ	21	LYS	2.3
10	AA	618	G	2.3
10	AA	1190	G	2.3
10	AA	1513	G	2.3
10	AA	1720	G	2.3
10	BA	426	G	2.3
30	BU	82	TYR	2.3
15	AF	13	ASP	2.3
10	AA	763	U	2.3
31	AV	85	VAL	2.3
10	AA	96	A	2.3
10	AA	1206	A	2.3
18	AI	142	LYS	2.3
18	BI	139	LYS	2.3
10	AA	658	C	2.3
10	BA	984	C	2.3
30	BU	45	CYS	2.3
33	BX	59	SER	2.3
24	AO	7	LYS	2.3
29	AT	11	LYS	2.3
32	BW	131	LYS	2.3
10	AA	157	G	2.3
10	AA	181	G	2.3
10	AA	238	G	2.3
10	AA	1213	G	2.3
10	AA	1506	G	2.3
14	BE	33	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
10	AA	820	U	2.3
10	BA	1384	U	2.3
3	A3	94	PHE	2.3
13	AD	52	PHE	2.3
29	AT	16	ALA	2.3
22	AM	136	GLN	2.3
22	BM	98	TYR	2.3
30	BU	64	ALA	2.3
34	BY	138	ALA	2.3
24	BO	153	GLN	2.3
10	BA	391	A	2.3
10	BA	600	A	2.3
10	BA	710	A	2.3
19	AJ	81	GLU	2.3
30	BU	78	SER	2.3
10	AA	1017	C	2.3
19	AJ	16	LYS	2.3
20	AK	62	VAL	2.3
25	BP	147	VAL	2.3
16	BG	135	ASP	2.3
14	AE	75	HIS	2.2
22	BM	86	LEU	2.2
27	AR	96	TRP	2.2
18	BI	141	GLN	2.2
25	BP	87	TYR	2.2
2	B2	197	GLU	2.2
32	AW	239	GLU	2.2
17	AH	34	VAL	2.2
10	AA	15	U	2.2
10	AA	571	G	2.2
10	AA	1054	U	2.2
10	AA	1089	U	2.2
10	AA	1302	G	2.2
10	BA	1385	U	2.2
14	BE	60	ILE	2.2
29	AT	7	PHE	2.2
10	AA	685	A	2.2
25	BP	33	ALA	2.2
10	AA	180	C	2.2
10	AA	225	C	2.2
10	AA	711	C	2.2
10	BA	228	C	2.2

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Mol	Chain	Res	Type	RSRZ
10	BA	487	C	2.2
6	B6	43	MET	2.2
4	B4	68	VAL	2.2
8	B8	25	GLY	2.2
18	BI	135	GLY	2.2
29	BT	105	ARG	2.2
15	BF	90	ILE	2.2
1	A1	48	ALA	2.2
9	A9	99	ALA	2.2
10	AA	557	U	2.2
10	AA	1724	U	2.2
10	BA	272	U	2.2
10	BA	819	U	2.2
10	BA	1222	U	2.2
14	BE	93	ALA	2.2
26	BQ	56	LYS	2.2
30	AU	47	ALA	2.2
34	AY	53	ALA	2.2
9	B9	111	LEU	2.2
18	AI	145	ARG	2.2
22	AM	18	LEU	2.2
33	BX	65	GLY	2.2
10	AA	1723	A	2.2
10	BA	1709	A	2.2
18	BI	38	ILE	2.2
10	AA	436	C	2.2
30	AU	98	LYS	2.2
34	AY	225	ALA	2.2
13	AD	85	LEU	2.2
17	AH	39	ARG	2.2
21	BL	76	ARG	2.2
32	BW	59	ARG	2.2
2	A2	15	GLY	2.2
4	B4	204	GLU	2.2
6	B6	23	ILE	2.2
9	A9	121	PRO	2.2
10	AA	603	U	2.2
28	AS	114	PHE	2.2
9	B9	127	LYS	2.2
12	BC	181	LYS	2.2
30	AU	69	LYS	2.2
2	A2	12	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
2	A2	148	GLN	2.2
10	AA	62	G	2.2
10	AA	804	A	2.2
10	AA	902	G	2.2
10	AA	1227	G	2.2
10	AA	1719	A	2.2
10	BA	1	A	2.2
10	BA	1400	G	2.2
19	BJ	91	LEU	2.2
34	BY	131	ARG	2.2
10	AA	198	C	2.2
19	BJ	21	ILE	2.2
2	A2	63	PHE	2.2
32	BW	108	LYS	2.2
29	AT	62	ALA	2.1
10	AA	41	U	2.1
10	AA	1223	U	2.1
24	BO	5	GLN	2.1
30	AU	76	ARG	2.1
22	BM	145	GLY	2.1
32	AW	6	LYS	2.1
10	AA	480	A	2.1
10	AA	1259	A	2.1
10	AA	1753	A	2.1
10	BA	1193	A	2.1
9	B9	98	LEU	2.1
10	AA	798	G	2.1
10	AA	817	G	2.1
10	AA	1426	G	2.1
1	A1	9	ALA	2.1
24	BO	17	ALA	2.1
27	BR	177	ALA	2.1
16	BG	50	ARG	2.1
22	BM	26	ARG	2.1
26	AQ	104	ARG	2.1
34	AY	107	ARG	2.1
9	B9	128	HIS	2.1
10	AA	223	C	2.1
10	BA	198	C	2.1
10	BA	655	C	2.1
34	AY	24	CYS	2.1
28	AS	129	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
4	B4	125	GLU	2.1
10	AA	899	U	2.1
10	AA	1334	U	2.1
10	BA	8	U	2.1
10	BA	812	U	2.1
10	BA	1089	U	2.1
26	BQ	7	ARG	2.1
10	AA	688	A	2.1
10	BA	548	A	2.1
21	BL	107	GLY	2.1
32	AW	230	LEU	2.1
10	AA	659	G	2.1
10	AA	1200	G	2.1
10	BA	313	G	2.1
10	BA	880	G	2.1
10	BA	1122	G	2.1
10	AA	218	C	2.1
10	AA	655	C	2.1
10	AA	693	C	2.1
10	AA	821	C	2.1
10	BA	1218	C	2.1
10	BA	1418	C	2.1
10	BA	1662	C	2.1
17	BH	119	ARG	2.1
5	B5	7	ASN	2.1
16	BG	113	ASN	2.1
18	AI	50	ILE	2.1
10	BA	763	U	2.1
10	BA	1414	U	2.1
31	AV	30	PHE	2.1
9	A9	90	HIS	2.1
20	BK	65	ASP	2.1
21	AL	118	GLY	2.1
25	BP	64	GLY	2.1
27	AR	108	GLY	2.1
1	B1	60	CYS	2.1
27	AR	292	CYS	2.1
27	BR	300	THR	2.1
10	AA	1331	A	2.1
10	BA	73	A	2.1
10	BA	1208	A	2.1
34	AY	58	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
29	AT	92	LEU	2.1
10	AA	578	C	2.1
10	BA	483	C	2.1
10	AA	661	G	2.1
10	BA	451	G	2.1
10	BA	641	G	2.1
25	BP	57	GLY	2.1
30	BU	110	PRO	2.1
11	AB	121	THR	2.1
17	BH	9	GLU	2.1
10	AA	662	U	2.1
10	BA	140	U	2.1
10	BA	551	U	2.1
10	BA	649	U	2.1
10	BA	1403	U	2.1
11	BB	97	SER	2.1
3	B3	195	PHE	2.1
24	AO	35	VAL	2.1
29	BT	92	LEU	2.1
18	BI	140	MET	2.1
9	A9	129	TYR	2.0
10	AA	553	A	2.0
10	AA	1165	A	2.0
10	AA	1168	A	2.0
10	BA	1003	A	2.0
10	BA	1718	A	2.0
34	AY	42	GLY	2.0
27	BR	269	TRP	2.0
2	A2	87	LEU	2.0
22	BM	66	CYS	2.0
30	AU	58	LEU	2.0
28	AS	95	VAL	2.0
18	AI	34	ASN	2.0
10	AA	1055	G	2.0
10	BA	497	G	2.0
10	BA	805	G	2.0
10	BA	1426	G	2.0
10	BA	1650	G	2.0
28	AS	53	GLY	2.0
30	BU	74	PRO	2.0
3	B3	50	ILE	2.0
22	BM	71	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
34	AY	152	ASP	2.0
27	BR	203	PHE	2.0
29	BT	16	ALA	2.0
30	BU	102	SER	2.0
8	B8	111	VAL	2.0
10	AA	221	A	2.0
10	AA	710	A	2.0
10	BA	407	A	2.0
10	BA	531	A	2.0
10	BA	617	A	2.0
21	AL	108	ARG	2.0
23	AN	4	LYS	2.0
28	AS	105	LYS	2.0
30	BU	99	GLY	2.0
33	BX	29	LYS	2.0
3	A3	53	THR	2.0
2	A2	167	PHE	2.0
2	B2	160	GLU	2.0
10	AA	536	C	2.0
10	AA	1246	C	2.0
10	AA	1659	C	2.0
10	AA	1686	C	2.0
10	AA	1701	C	2.0
10	BA	1537	C	2.0
19	AJ	118	ALA	2.0
20	AK	65	ASP	2.0
22	BM	3	PHE	2.0
25	AP	81	LEU	2.0
10	AA	131	U	2.0
10	AA	1347	U	2.0
32	BW	194	VAL	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
36	MG	BA	1855	1/1	0.56	0.67	275,275,275,275	0
36	MG	BA	1830	1/1	0.61	0.21	204,204,204,204	0
36	MG	AA	1855	1/1	0.66	0.28	214,214,214,214	0
36	MG	BA	1875	1/1	0.67	0.18	193,193,193,193	0
36	MG	BA	1837	1/1	0.72	0.22	178,178,178,178	0
36	MG	AA	1883	1/1	0.73	0.14	209,209,209,209	0
36	MG	AA	1859	1/1	0.75	0.23	193,193,193,193	0
36	MG	AA	1888	1/1	0.75	0.30	205,205,205,205	0
36	MG	AA	1882	1/1	0.75	0.18	181,181,181,181	0
36	MG	BA	1889	1/1	0.75	0.20	209,209,209,209	0
36	MG	AA	1832	1/1	0.76	0.10	189,189,189,189	0
36	MG	BA	1887	1/1	0.76	0.34	206,206,206,206	0
36	MG	AA	1872	1/1	0.76	0.11	196,196,196,196	0
36	MG	BA	1848	1/1	0.77	0.28	206,206,206,206	0
36	MG	BA	1807	1/1	0.78	0.21	210,210,210,210	0
36	MG	BA	1853	1/1	0.78	0.11	194,194,194,194	0
36	MG	BD	201	1/1	0.78	0.30	233,233,233,233	0
36	MG	AA	1862	1/1	0.79	0.10	191,191,191,191	0
36	MG	AA	1809	1/1	0.79	0.17	193,193,193,193	0
36	MG	BA	1842	1/1	0.79	0.18	210,210,210,210	0
36	MG	BA	1883	1/1	0.79	0.25	187,187,187,187	0
36	MG	BA	1845	1/1	0.79	0.11	225,225,225,225	0
36	MG	AA	1861	1/1	0.79	0.16	204,204,204,204	0
36	MG	BA	1849	1/1	0.79	0.15	198,198,198,198	0
36	MG	BA	1866	1/1	0.80	0.34	186,186,186,186	0
36	MG	BA	1872	1/1	0.80	0.58	200,200,200,200	0
36	MG	BA	1847	1/1	0.80	0.14	204,204,204,204	0
36	MG	AA	1879	1/1	0.80	0.14	193,193,193,193	0
36	MG	BA	1838	1/1	0.80	0.20	172,172,172,172	0
36	MG	AA	1871	1/1	0.80	0.15	201,201,201,201	0
36	MG	AA	1813	1/1	0.80	0.15	191,191,191,191	0
36	MG	BA	1827	1/1	0.81	0.11	199,199,199,199	0
36	MG	BA	1835	1/1	0.81	0.15	187,187,187,187	0
36	MG	AA	1866	1/1	0.82	0.24	197,197,197,197	0
36	MG	BA	1843	1/1	0.82	0.10	196,196,196,196	0
36	MG	AA	1890	1/1	0.82	0.13	218,218,218,218	0
36	MG	BA	1884	1/1	0.83	0.14	219,219,219,219	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
36	MG	BA	1886	1/1	0.83	0.26	214,214,214,214	0
36	MG	BA	1854	1/1	0.83	0.18	189,189,189,189	0
36	MG	BA	1878	1/1	0.83	0.11	177,177,177,177	0
36	MG	BA	1850	1/1	0.83	0.23	221,221,221,221	0
36	MG	BA	1860	1/1	0.84	0.14	177,177,177,177	0
36	MG	AA	1802	1/1	0.84	0.16	175,175,175,175	0
36	MG	AA	1868	1/1	0.84	0.15	197,197,197,197	0
36	MG	BA	1873	1/1	0.84	0.33	218,218,218,218	0
36	MG	AA	1874	1/1	0.84	0.11	194,194,194,194	0
36	MG	BA	1859	1/1	0.84	0.15	194,194,194,194	0
36	MG	AA	1845	1/1	0.85	0.10	193,193,193,193	0
36	MG	BA	1869	1/1	0.85	0.16	188,188,188,188	0
36	MG	BA	1879	1/1	0.85	0.13	221,221,221,221	0
36	MG	AA	1848	1/1	0.86	0.12	183,183,183,183	0
36	MG	AA	1870	1/1	0.86	0.09	195,195,195,195	0
36	MG	BA	1851	1/1	0.86	0.11	169,169,169,169	0
36	MG	AA	1886	1/1	0.86	0.19	148,148,148,148	0
36	MG	AA	1856	1/1	0.86	0.11	182,182,182,182	0
36	MG	BA	1882	1/1	0.86	0.10	196,196,196,196	0
36	MG	AA	1876	1/1	0.87	0.15	180,180,180,180	0
36	MG	AL	201	1/1	0.87	0.17	182,182,182,182	0
36	MG	AA	1851	1/1	0.87	0.10	187,187,187,187	0
36	MG	BA	1814	1/1	0.87	0.15	214,214,214,214	0
36	MG	AA	1852	1/1	0.87	0.13	173,173,173,173	0
36	MG	AA	1814	1/1	0.87	0.17	197,197,197,197	0
36	MG	AA	1863	1/1	0.87	0.14	183,183,183,183	0
36	MG	BA	1870	1/1	0.87	0.10	205,205,205,205	0
36	MG	BA	1888	1/1	0.87	0.86	227,227,227,227	0
36	MG	BA	1836	1/1	0.87	0.18	175,175,175,175	0
36	MG	AA	1843	1/1	0.87	0.09	182,182,182,182	0
36	MG	BA	1881	1/1	0.88	0.09	149,149,149,149	0
36	MG	BA	1867	1/1	0.88	0.09	180,180,180,180	0
36	MG	BA	1824	1/1	0.88	0.19	172,172,172,172	0
36	MG	AA	1806	1/1	0.88	0.12	151,151,151,151	0
36	MG	AA	1884	1/1	0.88	0.14	190,190,190,190	0
36	MG	BA	1806	1/1	0.88	0.10	168,168,168,168	0
36	MG	AA	1858	1/1	0.88	0.14	162,162,162,162	0
36	MG	BA	1810	1/1	0.88	0.23	188,188,188,188	0
36	MG	AA	1839	1/1	0.88	0.10	143,143,143,143	0
36	MG	BW	301	1/1	0.88	0.09	166,166,166,166	0
36	MG	BA	1868	1/1	0.89	0.08	208,208,208,208	0
36	MG	BA	1852	1/1	0.89	0.10	170,170,170,170	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
36	MG	AA	1836	1/1	0.89	0.14	166,166,166,166	0
36	MG	AA	1873	1/1	0.89	0.32	196,196,196,196	0
36	MG	AA	1830	1/1	0.89	0.13	183,183,183,183	0
36	MG	AA	1812	1/1	0.89	0.22	173,173,173,173	0
36	MG	BA	1820	1/1	0.89	0.09	170,170,170,170	0
36	MG	B4	301	1/1	0.89	0.10	165,165,165,165	0
36	MG	BA	1825	1/1	0.89	0.28	153,153,153,153	0
36	MG	BA	1826	1/1	0.90	0.09	185,185,185,185	0
36	MG	BA	1803	1/1	0.90	0.25	169,169,169,169	0
36	MG	AA	1807	1/1	0.90	0.09	194,194,194,194	0
36	MG	BA	1833	1/1	0.90	0.14	172,172,172,172	0
36	MG	BA	1811	1/1	0.90	0.09	170,170,170,170	0
36	MG	BA	1812	1/1	0.90	0.19	166,166,166,166	0
36	MG	BA	1876	1/1	0.91	0.12	184,184,184,184	0
36	MG	BA	1801	1/1	0.91	0.17	186,186,186,186	0
36	MG	AA	1885	1/1	0.91	0.11	223,223,223,223	0
36	MG	AA	1841	1/1	0.91	0.11	170,170,170,170	0
36	MG	BA	1861	1/1	0.91	0.09	181,181,181,181	0
36	MG	AA	1887	1/1	0.91	0.16	198,198,198,198	0
36	MG	BA	1809	1/1	0.91	0.12	172,172,172,172	0
36	MG	BA	1832	1/1	0.91	0.10	194,194,194,194	0
36	MG	AA	1880	1/1	0.91	0.11	193,193,193,193	0
36	MG	AA	1889	1/1	0.91	0.30	200,200,200,200	0
36	MG	AA	1869	1/1	0.91	0.13	209,209,209,209	0
36	MG	AA	1850	1/1	0.91	0.09	185,185,185,185	0
36	MG	AA	1842	1/1	0.91	0.10	175,175,175,175	0
36	MG	BA	1816	1/1	0.92	0.08	127,127,127,127	0
36	MG	AA	1826	1/1	0.92	0.12	155,155,155,155	0
36	MG	BA	1822	1/1	0.92	0.07	151,151,151,151	0
36	MG	AA	1878	1/1	0.92	0.16	160,160,160,160	0
36	MG	BA	1871	1/1	0.92	0.08	209,209,209,209	0
36	MG	BA	1864	1/1	0.92	0.11	182,182,182,182	0
36	MG	AA	1820	1/1	0.92	0.07	157,157,157,157	0
36	MG	BA	1858	1/1	0.93	0.09	163,163,163,163	0
36	MG	AA	1864	1/1	0.93	0.17	176,176,176,176	0
36	MG	BA	1877	1/1	0.93	0.10	177,177,177,177	0
36	MG	BA	1828	1/1	0.93	0.07	145,145,145,145	0
36	MG	AA	1865	1/1	0.93	0.10	184,184,184,184	0
36	MG	BA	1880	1/1	0.93	0.21	193,193,193,193	0
36	MG	BA	1815	1/1	0.93	0.14	155,155,155,155	0
36	MG	BA	1865	1/1	0.93	0.19	183,183,183,183	0
36	MG	AA	1804	1/1	0.93	0.10	150,150,150,150	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
36	MG	BA	1834	1/1	0.93	0.26	138,138,138,138	0
36	MG	AA	1837	1/1	0.93	0.08	149,149,149,149	0
36	MG	AA	1860	1/1	0.93	0.09	176,176,176,176	0
36	MG	AA	1854	1/1	0.93	0.13	158,158,158,158	0
36	MG	AA	1849	1/1	0.93	0.07	159,159,159,159	0
36	MG	AA	1805	1/1	0.93	0.09	175,175,175,175	0
36	MG	BA	1856	1/1	0.93	0.05	173,173,173,173	0
36	MG	AA	1844	1/1	0.94	0.16	166,166,166,166	0
36	MG	BA	1840	1/1	0.94	0.07	128,128,128,128	0
36	MG	AA	1815	1/1	0.94	0.08	144,144,144,144	0
36	MG	BA	1808	1/1	0.94	0.14	140,140,140,140	0
36	MG	BA	1817	1/1	0.94	0.07	134,134,134,134	0
36	MG	BA	1857	1/1	0.94	0.08	130,130,130,130	0
36	MG	AA	1875	1/1	0.94	0.17	152,152,152,152	0
36	MG	BA	1802	1/1	0.94	0.12	169,169,169,169	0
36	MG	AA	1827	1/1	0.94	0.05	178,178,178,178	0
36	MG	BA	1874	1/1	0.94	0.11	164,164,164,164	0
36	MG	BA	1804	1/1	0.94	0.10	191,191,191,191	0
36	MG	BA	1862	1/1	0.94	0.07	177,177,177,177	0
36	MG	BA	1813	1/1	0.94	0.10	187,187,187,187	0
36	MG	AA	1847	1/1	0.95	0.09	186,186,186,186	0
36	MG	AA	1877	1/1	0.95	0.07	170,170,170,170	0
36	MG	AA	1838	1/1	0.95	0.08	144,144,144,144	0
36	MG	AA	1810	1/1	0.95	0.11	175,175,175,175	0
36	MG	BA	1823	1/1	0.95	0.09	123,123,123,123	0
36	MG	AA	1833	1/1	0.95	0.14	135,135,135,135	0
36	MG	AA	1834	1/1	0.95	0.11	182,182,182,182	0
36	MG	AA	1835	1/1	0.95	0.08	159,159,159,159	0
36	MG	BA	1885	1/1	0.95	0.08	161,161,161,161	0
36	MG	BA	1841	1/1	0.95	0.08	129,129,129,129	0
36	MG	AA	1853	1/1	0.95	0.05	177,177,177,177	0
36	MG	AA	1808	1/1	0.95	0.20	136,136,136,136	0
36	MG	AA	1822	1/1	0.95	0.06	139,139,139,139	0
36	MG	BA	1846	1/1	0.95	0.08	147,147,147,147	0
36	MG	BA	1831	1/1	0.95	0.09	115,115,115,115	0
36	MG	AA	1881	1/1	0.96	0.21	198,198,198,198	0
36	MG	AA	1811	1/1	0.96	0.10	154,154,154,154	0
36	MG	AA	1818	1/1	0.96	0.08	121,121,121,121	0
36	MG	BA	1829	1/1	0.96	0.07	163,163,163,163	0
36	MG	AA	1831	1/1	0.96	0.06	111,111,111,111	0
36	MG	BA	1844	1/1	0.96	0.05	157,157,157,157	0
36	MG	A4	301	1/1	0.96	0.07	174,174,174,174	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
36	MG	AA	1821	1/1	0.96	0.05	144,144,144,144	0
36	MG	AA	1803	1/1	0.96	0.08	147,147,147,147	0
36	MG	AA	1823	1/1	0.96	0.07	130,130,130,130	0
36	MG	AA	1846	1/1	0.96	0.06	161,161,161,161	0
36	MG	AA	1824	1/1	0.96	0.06	148,148,148,148	0
36	MG	AA	1801	1/1	0.96	0.04	160,160,160,160	0
37	ZN	B9	500	1/1	0.96	0.05	247,247,247,247	0
36	MG	AA	1828	1/1	0.97	0.06	133,133,133,133	0
36	MG	BA	1839	1/1	0.97	0.06	140,140,140,140	0
36	MG	BA	1819	1/1	0.97	0.07	122,122,122,122	0
36	MG	AA	1867	1/1	0.97	0.05	193,193,193,193	0
36	MG	BA	1821	1/1	0.97	0.05	160,160,160,160	0
36	MG	AA	1857	1/1	0.97	0.09	140,140,140,140	0
36	MG	BA	1863	1/1	0.98	0.06	166,166,166,166	0
36	MG	AA	1840	1/1	0.98	0.06	124,124,124,124	0
36	MG	AA	1817	1/1	0.98	0.06	126,126,126,126	0
36	MG	AA	1829	1/1	0.98	0.04	160,160,160,160	0
36	MG	BA	1805	1/1	0.98	0.04	150,150,150,150	0
36	MG	AA	1825	1/1	0.99	0.11	115,115,115,115	0
36	MG	BA	1818	1/1	0.99	0.03	111,111,111,111	0
36	MG	AA	1819	1/1	0.99	0.03	136,136,136,136	0
37	ZN	A5	500	1/1	0.99	0.05	95,95,95,95	0
37	ZN	A6	500	1/1	0.99	0.03	118,118,118,118	0
37	ZN	A9	500	1/1	0.99	0.03	169,169,169,169	0
37	ZN	B5	500	1/1	0.99	0.09	87,87,87,87	0
36	MG	AA	1816	1/1	0.99	0.03	96,96,96,96	0
37	ZN	BN	500	1/1	0.99	0.03	113,113,113,113	0
37	ZN	AN	500	1/1	1.00	0.05	105,105,105,105	0
37	ZN	B6	500	1/1	1.00	0.04	108,108,108,108	0

6.5 Other polymers (i)

There are no such residues in this entry.