



Full wwPDB X-ray Structure Validation Report

Jun 16, 2014 – 06:27 PM BST

PDB ID : 4V5O
Title : CRYSTAL STRUCTURE OF THE EUKARYOTIC 40S RIBOSOMAL SUB-UNIT 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 validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

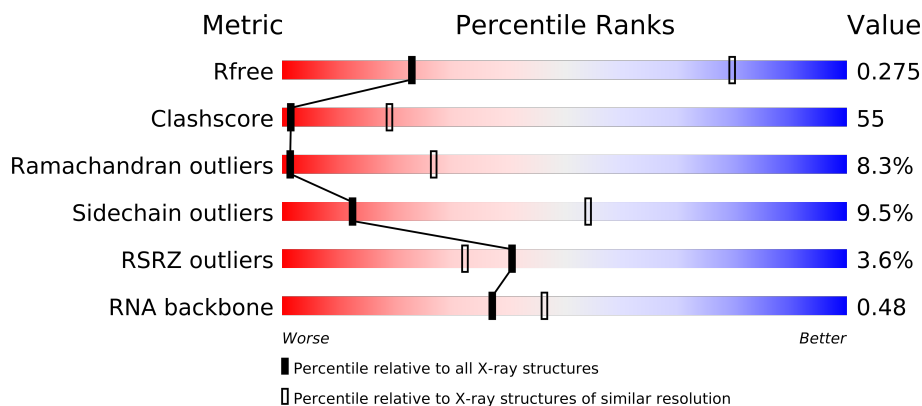
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable23397
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23397

1 Overall quality at a glance

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}	66092	1009 (4.42-3.44)
Clashscore	79885	1184 (4.38-3.50)
Ramachandran outliers	78287	1128 (4.38-3.50)
Sidechain outliers	78261	1116 (4.38-3.50)
RSRZ outliers	66119	1009 (4.42-3.44)
RNA backbone	1838	1018 (5.00-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A1	68	
1	B1	68	
2	A2	208	
2	B2	208	
3	A3	197	
3	B3	197	
4	A4	265	
4	B4	265	
5	A5	119	
5	B5	119	
6	A6	81	

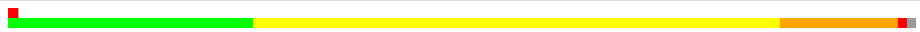
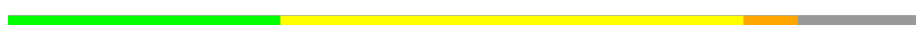
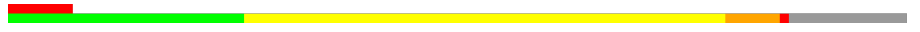

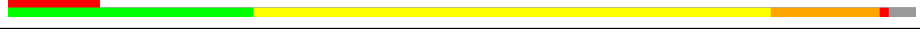

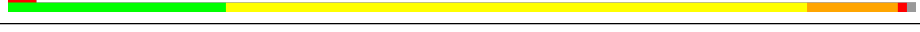
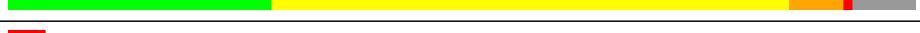

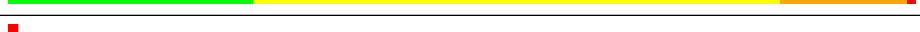

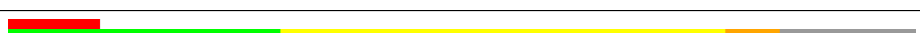
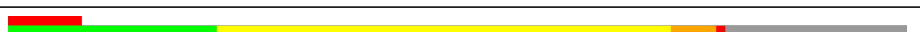
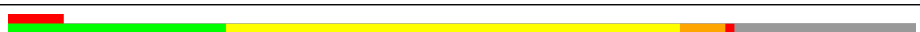
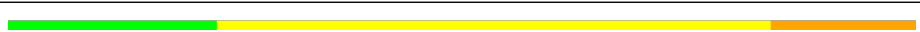
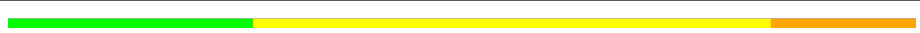

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Mol	Chain	Length	Quality of chain
6	B6	81	
7	A7	162	
7	B7	162	
8	A8	143	
8	B8	143	
9	A9	189	
9	B9	189	
10	AA	1753	
10	BA	1753	
11	AB	241	
11	BB	241	
12	AC	243	
12	BC	243	
13	AD	181	
13	BD	181	
14	AE	296	
14	BE	296	
15	AF	101	
15	BF	101	
16	AG	200	
16	BG	200	
17	AH	130	
17	BH	130	
18	AI	145	
18	BI	145	
19	AJ	120	
19	BJ	120	
20	AK	151	
20	BK	151	
21	AL	142	
21	BL	142	
22	AM	155	
22	BM	155	
23	AN	55	
23	BN	55	
24	AO	153	
24	BO	153	
25	AP	149	
25	BP	149	
26	AQ	157	
26	BQ	157	
27	AR	343	

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Mol	Chain	Length	Quality of chain
27	BR	343	
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 that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
36	MG	AA	1805	-	X
36	MG	AA	1827	-	X
36	MG	AA	1829	-	X
36	MG	AA	1845	-	X
36	MG	AA	1855	-	X
36	MG	AA	1856	-	X
36	MG	AA	1868	-	X
36	MG	AA	1873	-	X
36	MG	AA	1883	-	X
36	MG	AA	1884	-	X
36	MG	AA	1889	-	X
36	MG	BA	1807	-	X
36	MG	BA	1836	-	X
36	MG	BA	1838	-	X
36	MG	BA	1840	-	X
36	MG	BA	1845	-	X
36	MG	BA	1852	-	X
36	MG	BA	1855	-	X
36	MG	BA	1866	-	X
36	MG	BA	1873	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
36	MG	BA	1875	-	X
36	MG	BA	1882	-	X
36	MG	BA	1883	-	X
36	MG	BA	1886	-	X
36	MG	BA	1888	-	X
37	ZN	B6	500	-	X

2 Entry composition

There are 38 unique types of molecules in this entry. The entry contains 157632 atoms, of which 0 are hydrogen and 0 are deuterium.

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 (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
36	AA	90	Total	Mg	0	0
			90	90		
36	B4	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
36	BA	89	Total 89	Mg 89	0	0
36	BD	1	Total 1	Mg 1	0	0
36	A4	1	Total 1	Mg 1	0	0
36	BW	1	Total 1	Mg 1	0	0
36	AL	1	Total 1	Mg 1	0	0

- Molecule 37 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 38 is water.

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

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

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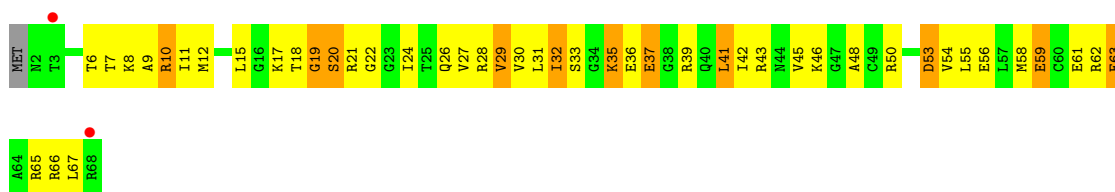
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
38	BO	1	Total 1	O 1	0	0
38	BP	1	Total 1	O 1	0	0
38	BQ	1	Total 1	O 1	0	0
38	BT	6	Total 6	O 6	0	0
38	BW	5	Total 5	O 5	0	0
38	BY	3	Total 3	O 3	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

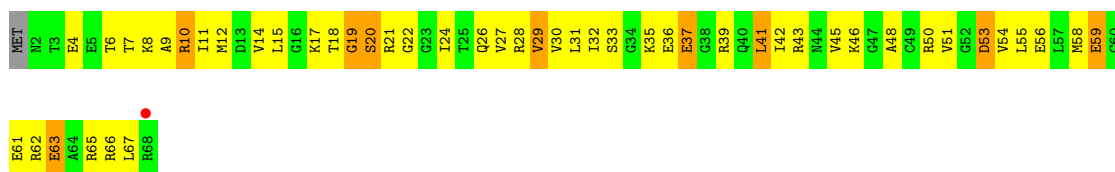
• Molecule 1: RIBOSOMAL PROTEIN S28E CONTAINING PROTEIN

Chain A1: 



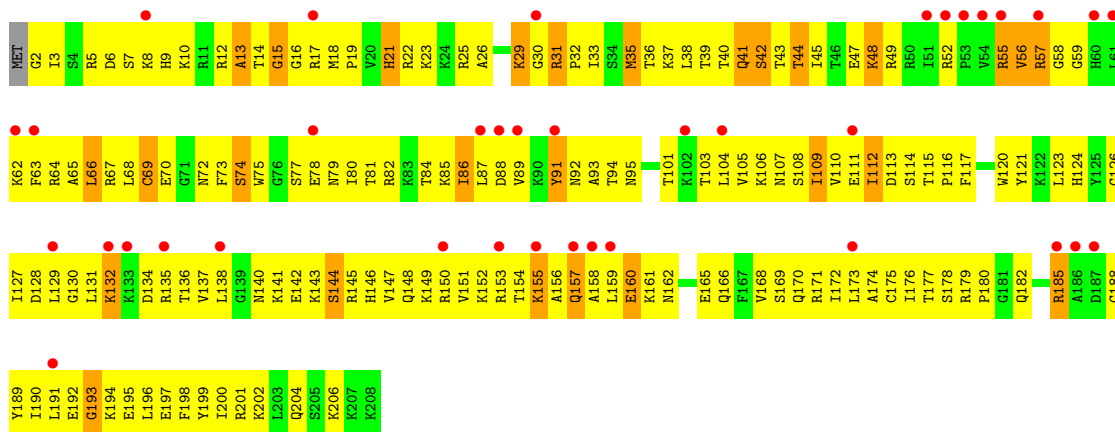
• Molecule 1: RIBOSOMAL PROTEIN S28E CONTAINING PROTEIN

Chain B1: 



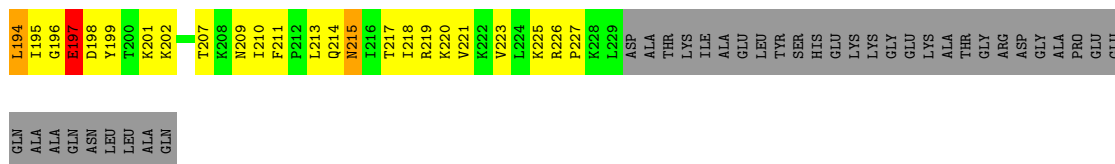
• Molecule 2: 40S RIBOSOMAL PROTEIN S8

Chain A2: 



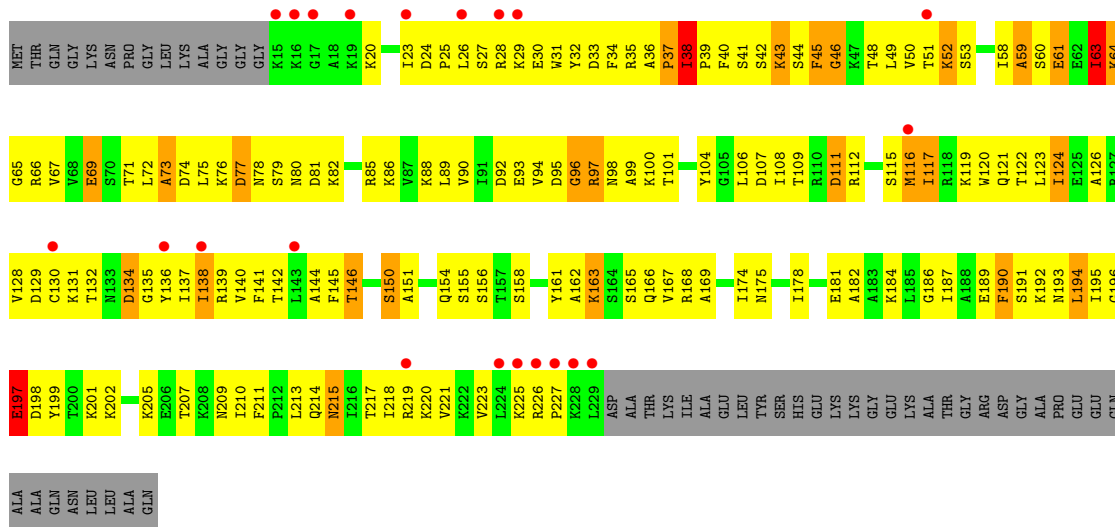
• Molecule 2: 40S RIBOSOMAL PROTEIN S8

Chain B2: 



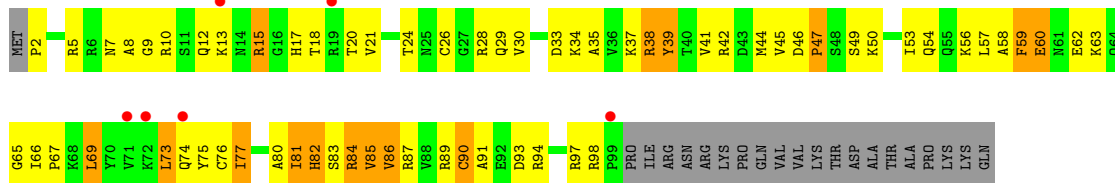
- Molecule 4: 40S RIBOSOMAL PROTEIN S3A

Chain B4:



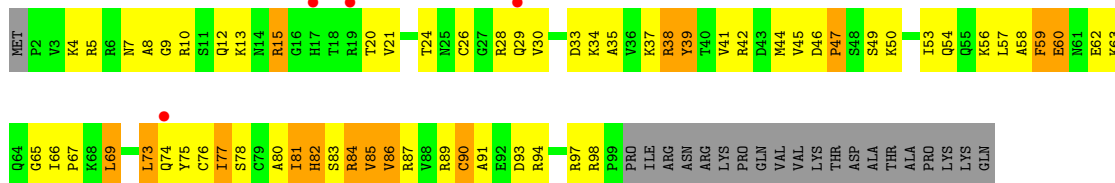
- Molecule 5: RIBOSOMAL PROTEIN S26E CONTAINING PROTEIN

Chain A5: 



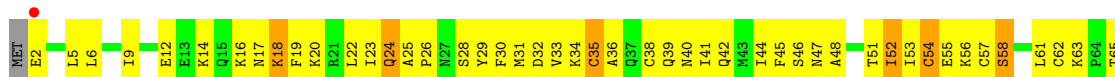
- Molecule 5: RIBOSOMAL PROTEIN S26E CONTAINING PROTEIN

Chain B5:

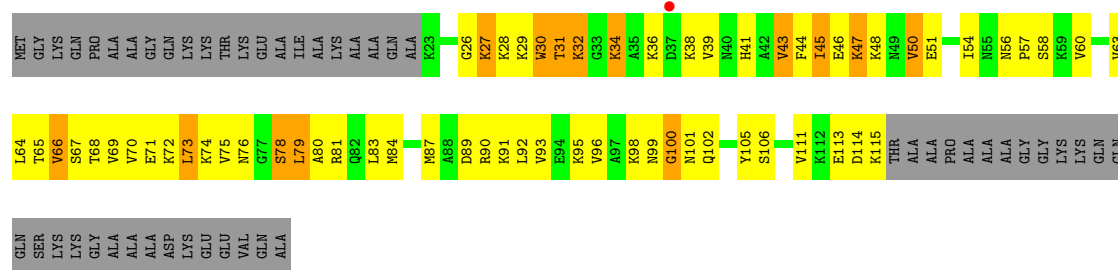


- Molecule 6: RPS27E

Chain A6:

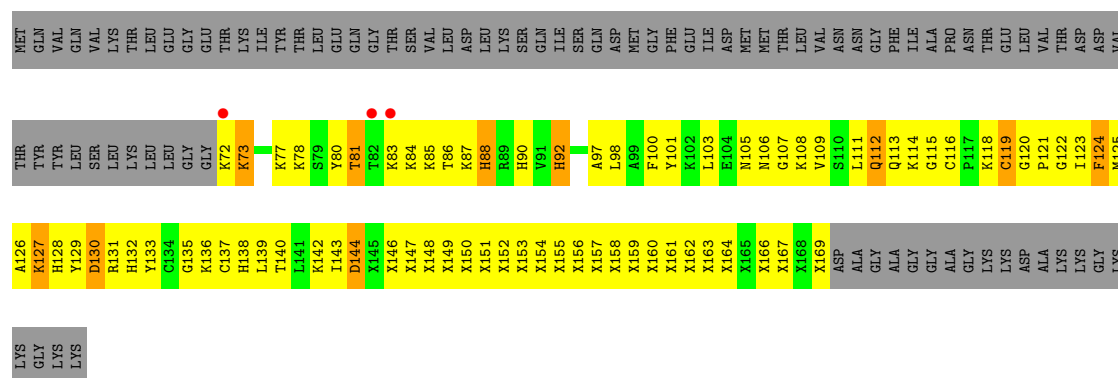






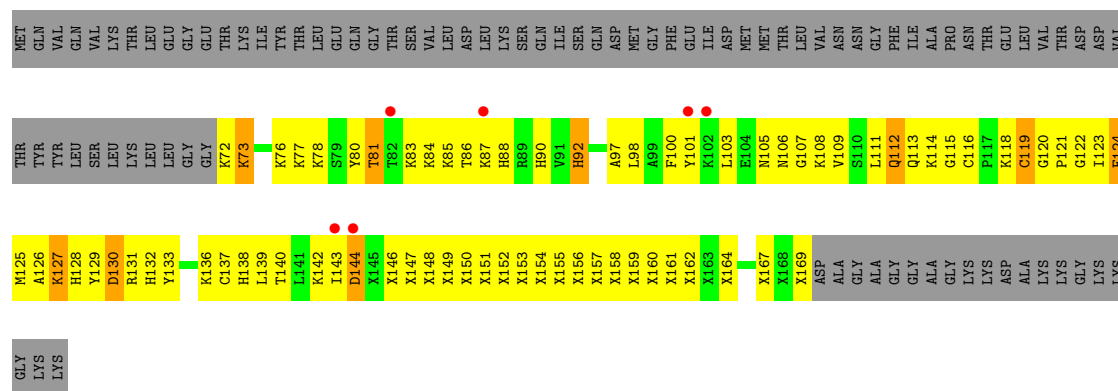
• Molecule 9: RPS31E

Chain A9:



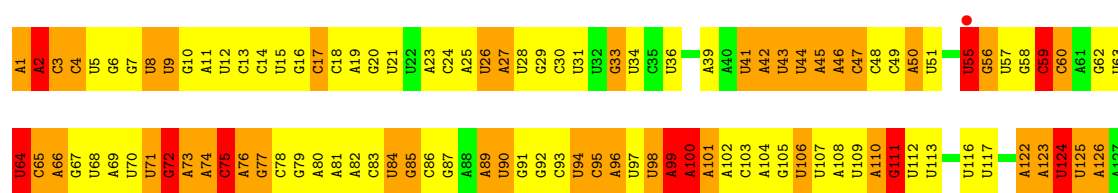
• Molecule 9: RPS31E

Chain B9:



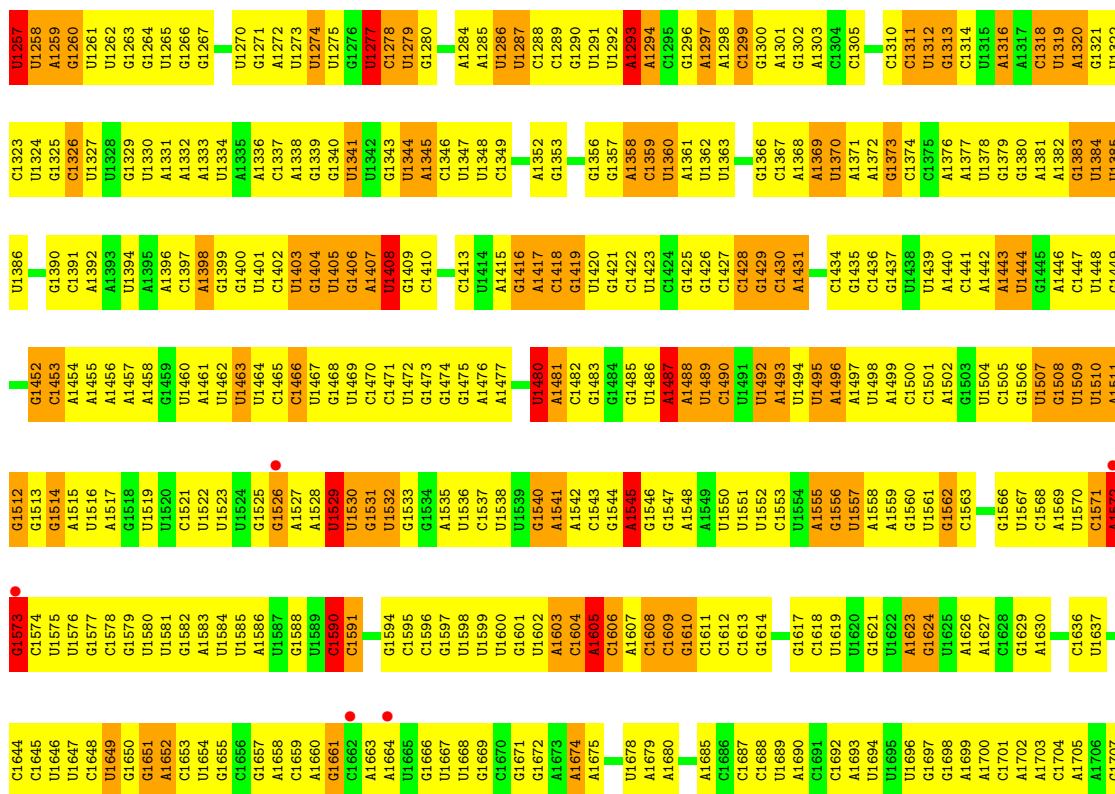
• Molecule 10: 18S RRNA

Chain AA:



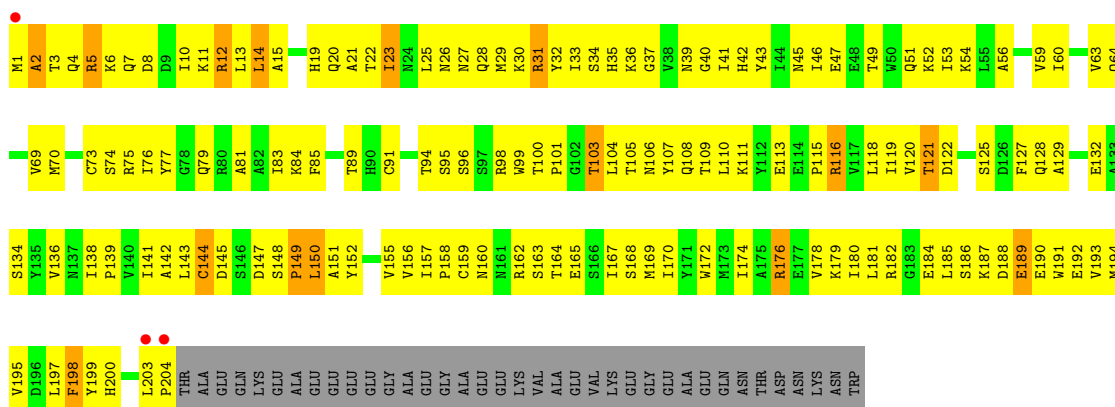
A1062	A1063	A1064	A1065	G1066	A1068	U1070	U1071	G1072	G1073	G1074	G1075	U1076	G1077	U1078	G1079	G1080	G1081	G1082	A1085	G1086	U1087	A1088	U1089	G1090	G1091	U1092	A1093	G1094	G1095	G1096	A1097	A1098	G1099	U1100	C1101	U1102	G1103	A1106	C1107	U1108	U1109	A1110	A1111	A1112	G1113	G1114	A1115	A1116	U1117	U1118	G1119	A1120	G1121	G1122	G1123	A1124	A1125																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
U936	U937	U938	U939	G940	A941	U942	U943	A944	U945	U946	U947	A948	A949	G950	G954	A955	A956	A957	G958	G962	G963	G964	G965	A966	U967	G968	G969	A970	A971	G972	A973	G974	G975	A976	U977	C978	A979	G980	A981	U982	A983	C984	C985	C986	U987	C988	U989	G991	G992	U993	C994	U995	U996	A997	U1000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A1001	U1002	A1003	A1004	A1005	C1006	U1007	A1008	U1009	A1010	C1011	C1012	G1013	A1014	C1015	U1016	G1017	G1018	G1019	G1020	A1021	U1022	G1025	C1026	U1027	G1028	G1029	A1030	A1031	U1032	A1033	A1034	U1035	A1036	U1037	U1038	C1039	U1040	A1041	G1042	U1043	G1044	G1045	G1046	A1047	A1048	C1049	C1050	G1051	U1052	A1053	U1054	G1055	A1056	U1057	A1058	A1059	A1060	U1061																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
U873	U874	C875	A876	A877	A878	G879	C880	U881	G882	A883	U884	A885	U886	U887	C888	U889	U890	G891	G892	A893	U894	U895	U896	A897	U898	U899	A900	U901	U902	G903	A904	C905	U906	A907	A908	C909	U910	A911	A912	U913	G914	C915	A919	G920	C921	U922	U923	G926	C927	C928	A929	U930	U931	U932	A933	U934	G935																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
A803	A804	U805	U806	C807	U811	U812	U813	A814	U820	U821	C821	U822	U826	U827	A826	U827	U828	U829	G830	A831	U832	A833	U834	U835	U836	U837	U838	A839	A840	U841	U842	A843	U844	U845	U846	U847	U848	U849	U850	U851	G854	G855	U856	U857	U858	U859	U860	U861	U862	U863	A864	A865	U866	U867	U868	A869	U870	U871	A872																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
U742	U743	A744	G745	A746	G747	U748	G749	U750	U751	G752	G753	A754	G755	G756	G757	U758	G759	G760	U761	U762	U763	U764	U765	G766	C767	C768	C769	G770	A771	A772	U773	A774	C775	U776	U777	U778	U779	G780	U781	U782	U783	G784	G785	A786	A787	U788	A789	G792	G793	A794	U795	U796	A797	U798	U799	A800	C801	U802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
A803	A804	U805	U806	C807	U811	U812	U813	A814	U820	U821	C821	U822	U826	U827	A826	U827	U828	U829	G830	A831	U832	A833	U834	U835	U836	U837	U838	A839	A840	U841	U842	A843	U844	U845	U846	U847	U848	U849	U850	U851	G854	G855	U856	U857	U858	U859	U860	U861	U862	U863	A864	A865	U866	U867	U868	A869	U870	U871	A872																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
G681	C682	A683	A684	A685	C686	U687	A688	A689	A690	A691	U692	C693	G694	C695	C696	U697	U698	U699	A700	U706	U707	C708	G709	A710	C711	U712	U713	A714	G715	G716	G717	U718	G719	U720	A721	U722	A723	C724	A725	U726	U727	U728	U729	A730	C731	U732	G733	U734	A735	U736	A737	A738	U739	U740																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
U620	C621	G622	U623	A624	G625	U626	U627	A628	A629	A630	C631	U632	U633	C634	U635	U636	U637	U638	C639	A640	G641	C642	U643	U644	C645	U646	U647	A648	U649	C650	G651	A652	U653	G654	U655	A656	U657	U658	U659	A660	U661	U662	U663	G664	U665	A666	C667	U668	G669	U670	A671	C672	A673	U674	A675	C676	U677	U678	U679	U680																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
C560	A561	G562	C563	U564	G565	C566	C567	G568	A569	C570	G571	U572	A573	A574	U575	C576	U577	C578	A579	G580	C581	U582	C583	C584	A585	U586	U587	A588	G589	C590	U591	U592	U593	U594	A595	U596	U597	A598	A599	A600	U601	U602	U603	G604	U605	U606	G607	C608	A609	U610	U611	U612	A613	C614	A615	A616	A617	C618	C619																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
G496	G497	A498	A499	U500	C441	U442	A443	A444	A504	A505	U506	G507	A448	G449	G450	A451	A452	A453	C454	A455	A456	U457	U458	G459	A460	C461	A462	A463	A527	G464	A465	A466	U467	U468	A469	G470	A471	U411	U412	C413	G414	A415	C416	A417	G418	A419	A420	A421	A422	A423	A424	A425	C426	A427	A428	A429	U430	U431	A432	U433	A434	U435	A436	A437	A438	A439	A440	A441	A442	A443	A444	A445	A446	A447	A448	A449	A450	A451	A452	A453	A454	A455	A456	A457	A458	A459	A460	A461	A462	A463	A464	A465	A466	A467	A468	A469	A470	A471	A472	A473	A474	A475	A476	A477	A478	A479	A480	A481	A482	A483	A484	A485	A486	A487	A488	A489	A490	A491	A492	A493	A494	A495	A496	A497	A498	A499	A500	A501	A502	A503	A504	A505	A506	A507	A508	A509	A510	A511	A512	A513	A514	A515	A516	A517	A518	A519	A520	A521	A522	A523	A524	A525	A526	A527	A528	A529	A530	A531	A532	A533	A534	A535	A536	A537	A538	A539	A540	A541	A542	A543	A544	A545	A546	A547	A548	A549	A550	A551	A552	A553	A554	A555	A556	A557	A558	A559	A560	A561	A562	A563	A564	A565	A566	A567	A568	A569	A570	A571	A572	A573	A574	A575	A576	A577	A578	A579	A580	A581	A582	A583	A584	A585	A586	A587	A588	A589	A590	A591	A592	A593	A594	A595	A596	A597	A598	A599	A600	A601	A602	A603	A604	A605	A606	A607	A608	A609	A610	A611	A612	A613	A614	A615	A616	A617	A618	A619	A620	A621	A622	A623	A624	A625	A626	A627	A628	A629	A630	A631	A632	A633	A634	A635	A636	A637	A638	A639	A640	A641	A642	A643	A644	A645	A646	A647	A648	A649	A650	A651	A652	A653	A654	A655	A656	A657	A658	A659	A660	A661	A662	A663	A664	A665	A666	A667	A668	A669	A670	A671	A672	A673	A674	A675	A676	A677	A678	A679	A680	A681	A682	A683	A684	A685	A686	A687	A688	A689	A690	A691	A692	A693	A694	A695	A696	A697	A698	A699	A700	A701	A702	A703	A704	A705	A706	A707	A708	A709	A710	A711	A712	A713	A714	A715	A716	A717	A718	A719	A720	A721	A722	A723	A724	A725	A726	A727	A728	A729	A730	A731	A732	A733	A734	A735	A736	A737	A738	A739	A740	A741	A742	A743	A744	A745	A746	A747	A748	A749	A750	A751	A752	A753	A754	A755	A756	A757	A758	A759	A760	A761	A762	A763	A764	A765	A766	A767	A768	A769	A770	A771	A772	A773	A774	A775	A776	A777	A778	A779	A780	A781	A782	A783	A784	A785	A786	A787	A788	A789	A790	A791	A792	A793	A794	A795	A796	A797	A798	A799	A800	A801	A802	A803	A804	A805	A806	A807	A808	A809	A810	A811	A812	A813	A814	A815	A816	A817	A818	A819	A820	A821	A822	A823	A824	A825	A826	A827	A828	A829	A830	A831	A832	A833	A834	A835	A836	A837	A838	A839	A840	A841	A842	A843	A844	A845	A846	A847	A848	A849	A850	A851	A852	A853	A854	A855	A856	A857	A858	A859	A860	A861	A862	A863	A864	A865	A866	A867	A868	A869	A870	A871	A872	A873	A874	A875	A876	A877	A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935
G951	U952	A953	A954	C955	U956	G957	A958	U959	U960	G961	U962	U963	U964	C965	C966	U967	G968	G969	U970	U971	U972	A973	C974	C975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	C1000	C1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
U191	C192	C193	G194	G195	A196	G197	C198	G199	U200	C201	U202	U203	U204	U205	A206	G207	U208	G209	A210	U211	U212	U213	U214	A215	C216	A217	C218	C219	U220	A221	U222	C223	G224	C225	C226	A227	G228	A229	A230	U231	G232	U233	G234	A235	U236	U237	G238	C239	C300	C301	U242	G243	A244	U245	A246	C247	A248	U249	A250																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
U311	C312	G313	A314	U315	G316	C317	U318	U319	C320	U321	G322	U323	U324	C325	U326	G327	G328	A329	C330	U331	U332	C333	C334	A335	U336	C337	G338	C339	A340	G341	U342	C343	A344	C345	G346	G347	C348	U349	A350	A351	C352	G353	G356	A357	C358	U359	G360	A361	G364	A303	U304	C305	A306	U307	U371	C372	A373	U374	A375	A376	A377	A378	A379	A380	A381	A382	A383	A384	A385	A386	A387	A388	A389	A390	A391	A392	A393	A394	A395	A396	A397	A398	A399	A400	A401	A402	A403	A404	A405	A406	A407	A408	A409	A410	A411	A412	A413	A414	A415	A416	A417	A418	A419	A420	A421	A422	A423	A424	A425	A426	A427	A428	A429	A430	A431	A432	A433	A434	A435	A436	A437	A438	A439	A440	A441	A442	A443	A444</																																																																																																																																																																																																																																																																																																																																																																																																																																																		

A1191	C1191	U1004	U1002	U939	U874	A804	U743	U679	C619	G558	G496	C373	U309	A249
C1192	A1065	A1003	A1003	C940	C975	G805	A744	U680	U620	C559	G497	G374	C310	A250
A1193	A1086	A1004	A1004	A876	A876	U806	G745	G681	C621	C560	A439	G375	U311	G251
G1194	A1005	A1005	A1005	A942	A877	C807	A746	C682	G622	A561	U438	A376	C312	U252
A1197	U1069	U1007	U1007	U943	A878	U811	G747	A683	U623	G562	C440	G377	A314	A253
A1198	U1070	U1007	U1007	U944	G879	U812	U748	A684	A624	C563	C441	A378	U315	A254
G1199	U1071	A1008	A1008	A945	G880	U813	G749	A685	G625	A564	U442	A379	G316	C255
G1200	G1072	U1009	U1009	U946	U881	A814	U750	A686	U626	G566	A503	G380	G317	U256
G1201	G1073	A1010	A1010	G882	G882	U814	U751	U687	U627	C566	A444	G381	G318	G257
A1202	U1076	G1013	G1013	A948	A883	U820	C752	A688	G628	A505	U445	A382	U319	A258
A1203	C1077	A1014	A1014	A949	A884	U821	G753	A689	A629	G568	U446	G383	A319	U259
U1204	U1078	C1015	C1015	A885	U885	U822	A754	A690	A630	C569	C447	C384	G320	C260
G1205	G1079	U1016	U1016	A952	U887	U822	G755	A691	C631	G570	A448	C385	U321	G261
A1206	G1080	C1017	C1017	C953	U888	U827	C757	U692	U632	G571	G449	U386	G322	G262
C1207	G1081	G954	G954	C954	C888	U828	A758	G695	U633	A572	G450	G387	U323	A263
A1208	G1082	U1019	U1019	A955	U890	U829	G759	C936	C634	A573	G451	G388	A324	U264
G1209	U1147	G1020	G1020	A956	G891	G830	G760	C	U635	A574	A452	G389	U325	G266
U1212	U1148	A1021	A1021	A957	G892	G831	U761	U	U637	U575	C454	A391	U326	G265
G1213	C1149	U1022	U1022	G958	G893	U838	C767	U	U638	U576	C455	A392	G327	A267
A1214	U1087	G1025	G1025	G962	U894	A833	G768	G705	U644	C577	A456	C393	G328	G268
G1215	A1088	U895	U895	A963	U895	U834	U764	C	C639	A585	U457	C399	C330	U270
A1216	U1089	C1026	C1026	G963	U896	U835	A765	A	A640	A586	A458	G394	U331	U271
G1217	G1090	A897	A897	G964	U897	G836	G766	C	G641	A587	U459	G395	A332	G272
C1218	G1091	G1028	G1028	G965	U898	A837	C767	U	U643	U588	C459	C396	A333	A273
U1222	U1092	G1029	G1029	A966	U899	U838	G768	G705	U644	C584	C461	A398	C334	C274
G1223	A1093	A1030	A1030	U967	A900	U839	C769	U706	C645	A585	A462	C399	A335	U275
A1224	C1094	A1031	A1031	C968	A901	A840	G770	U707	A646	A586	A463	U400	U336	C276
G1225	G1095	U1032	U1032	A969	G902	A841	A771	U	U647	U587	G464	G337	G337	C277
U1226	U1096	A1033	A1033	G970	G903	U842	A772	G711	U648	A588	A465	A403	G338	G278
G1227	A1097	A1034	A1034	A971	A904	A843	U773	U712	U649	G589	A466	A407	C339	A279
A1228	U1098	C1035	C1035	G972	C905	G844	A774	U713	C650	C590	U467	A340	G340	U280
U1229	G1099	U1036	U1036	G973	U906	G845	C775	A714	G651	C529	U468	G341	G342	A281
C1230	U1100	G1037	G1037	C974	A907	G846	A776	G715	A652	U592	A469	G409	U342	A282
G1231	U1101	U1038	U1038	G975	G975	A847	U777	G716	U653	A593	C470	G410	C343	A283
U1232	A1165	C1039	C1039	A976	A976	C848	U778	G717	U654	U594	C471	U411	A344	U284
U1233	G1103	C1040	C1040	U977	A911	A849	A779	A718	C655	A595	A472	U412	C345	C285
G1237	A1106	U1041	U1041	C978	A912	G850	G780	G719	G656	U596	A473	G413	G346	A286
U1238	C1167	G1042	G1042	A979	U913	U851	C781	U720	U657	U597	G474	G414	G347	U287
G1239	U1107	U1043	U1043	G980	G914	U852	A782	A721	C658	A598	C475	G415	G348	C288
A1240	U1108	C1044	C1044	A981	C915	G853	G783	A722	G659	A599	U476	C416	U349	U289
G1241	G1171	G1045	G1045	U982	G920	G854	U784	A723	U660	A600	C477	A417	A350	A290
U1242	U1109	C1046	C1046	A983	G921	G855	G785	G724	G661	G601	G478	G418	A351	A291
G1243	A1110	U1047	U1047	C984	A922	G856	A786	A725	U682	U602	C479	C419	C352	C292
U1244	A1111	C1048	C1048	C985	A922	G857	A787	U726	G663	U603	A480	A420	G353	U293
G1245	G1112	U1049	U1049	U987	U923	C858	U788	U727	A664	G604	A481	G421	A357	U294
A1246	U1113	C1050	C1050	C988	G926	A859	A789	U728	A665	U605	A482	G422	A357	U295
U1247	G1114	U1051	U1051	G989	G926	U859	G792	A729	A666	U606	C483	A423	A357	U296
G1248	U1117	U1052	U1052	U990	C927	A862	G793	U730	C667	G607	U484	A424	U359	U297
A1249	U1118	A1053	A1053	C928	C928	G863	A794	C731	U668	C608	U485	A425	U360	G298
U1250	G1119	U1054	U1054	A929	A929	U864	A795	U732	G689	A609	A486	G426	A361	C299
C1251	A1120	C1055	C1055	G992	G992	U865	A796	U733	G690	G610	C487	A427	G362	C300
G1252	C1121	A1056	A1056	A993	A931	U866	U796	G734	A671	U611	U488	A428	C301	U302
U1253	G1122	G1057	G1057	C994	G932	U867	A797	G735	C672	U612	U489	A429	G364	C303
C1254	A1123	A1058	A1058	U995	A933	U868	G798	A736	A673	U551	U490	A430	A304	A304
U1255	G1124	C1059	C1059	U996	U934	A869	G799	A737	U674	A613	U491	U431	G368	U305
G1256	A1125	A1060	A1060	A997	G935	A870	A800	A738	A675	A615	C492	U432	A369	C305
U1257	C1187	U1061	U1061	U936	U936	U871	C801	A739	C676	A616	U493	G433	U370	A306
A1258	A1188	G1127	G1127	U937	U937	A872	U802	A739	G677	A617	A494	G434	U371	G307
C1259	G1128	A1063	A1063	U938	U938	G873	A803	U742	U678	G618	C495	G435	C372	C308



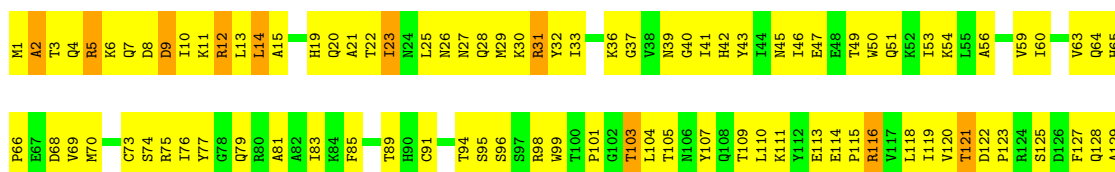
- Molecule 11: RPS0E

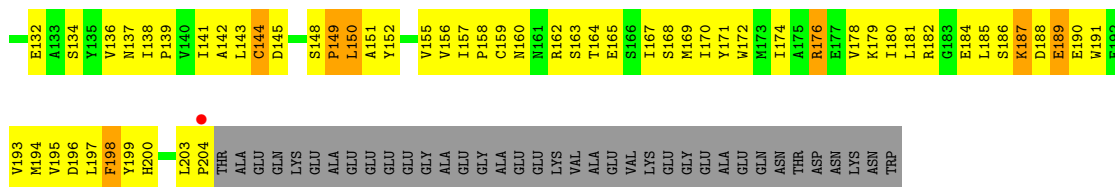
Chain AB:



- Molecule 11: RPS0E

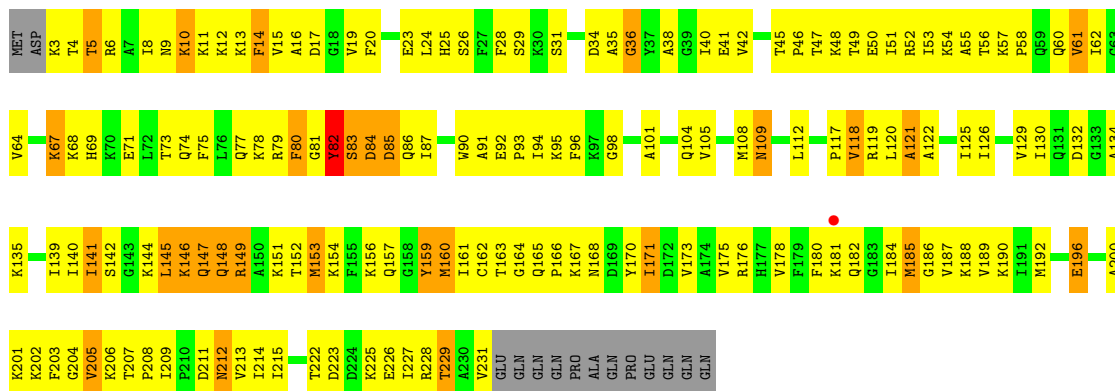
Chain BB:





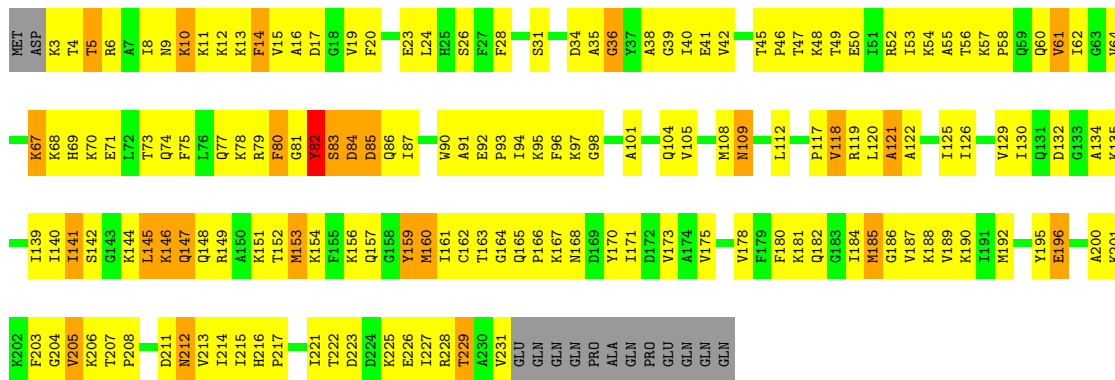
• Molecule 12: KH DOMAIN CONTAINING PROTEIN

Chain AC:



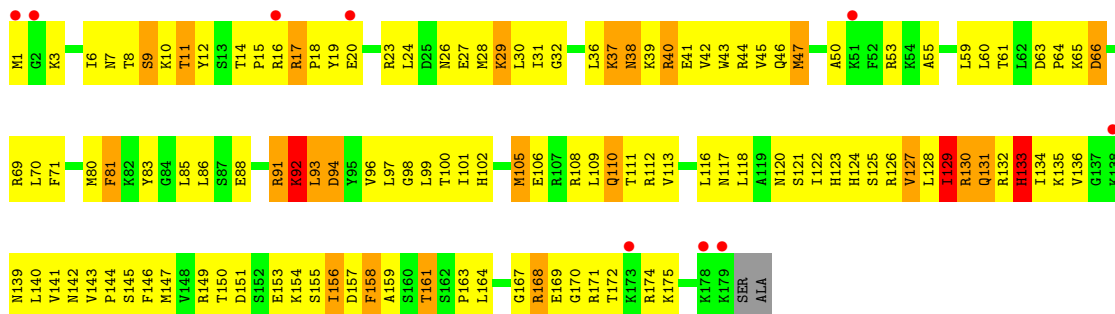
• Molecule 12: KH DOMAIN CONTAINING PROTEIN

Chain BC:



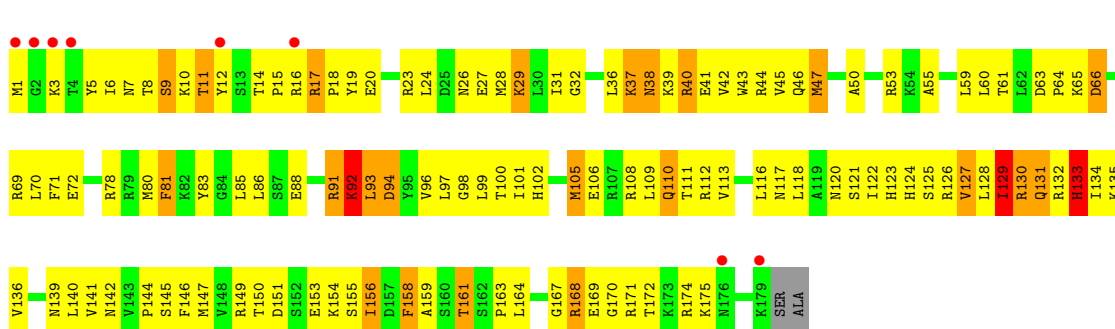
• Molecule 13: RIBOSOMAL PROTEIN S4 CONTAINING PROTEIN

Chain AD:



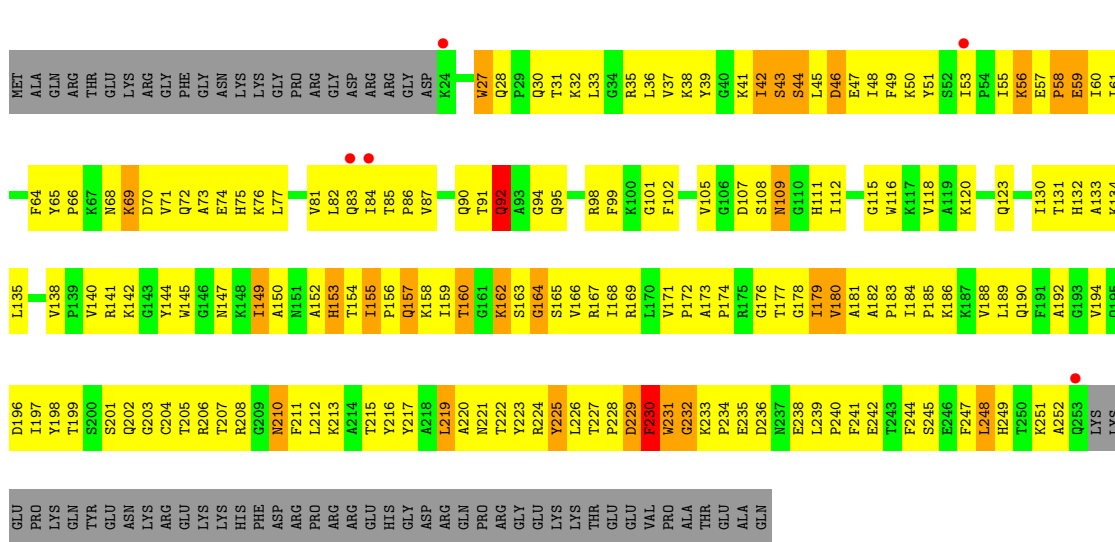
• Molecule 13: RIBOSOMAL PROTEIN S4 CONTAINING PROTEIN

Chain BD:



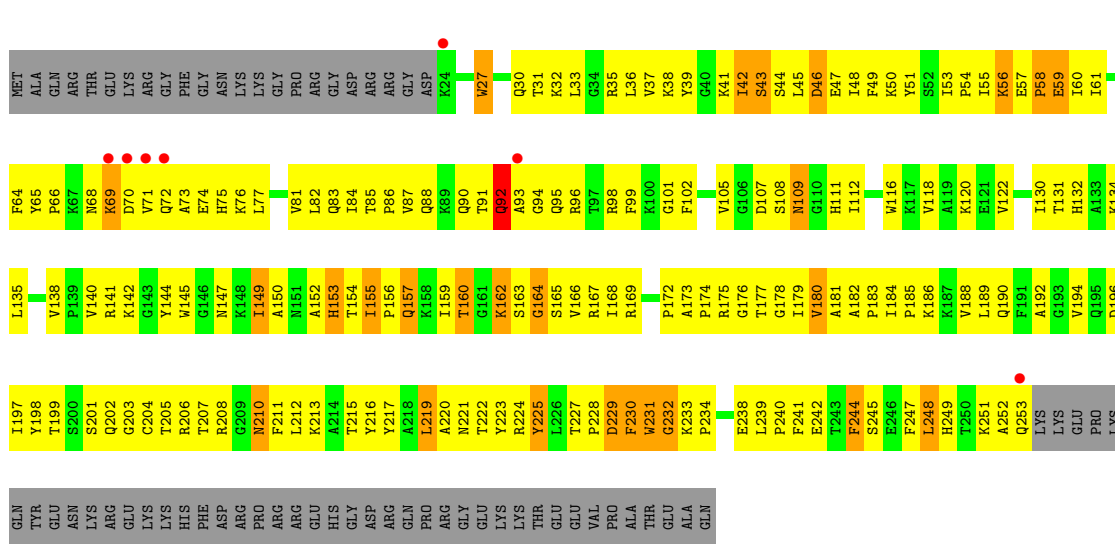
- Molecule 14: RIBOSOMAL PROTEIN S5 CONTAINING PROTEIN

Chain AE:



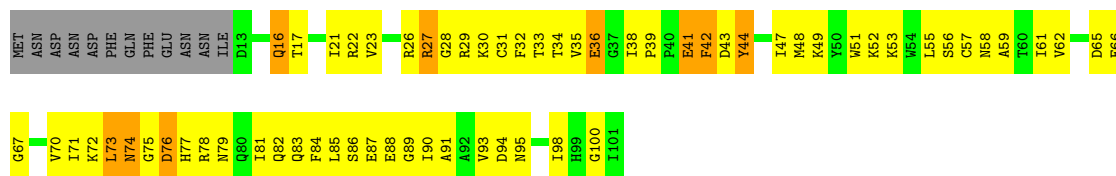
- Molecule 14: RIBOSOMAL PROTEIN S5 CONTAINING PROTEIN

Chain BE:



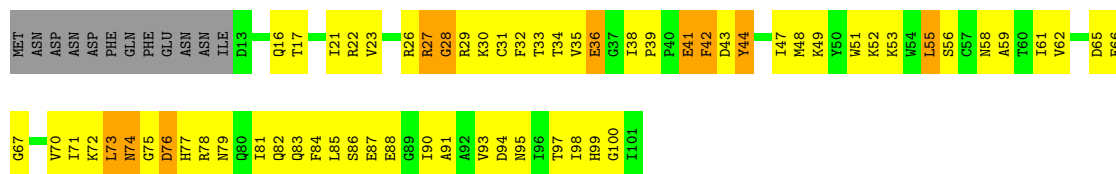
- Molecule 15: EIF1

Chain AF:



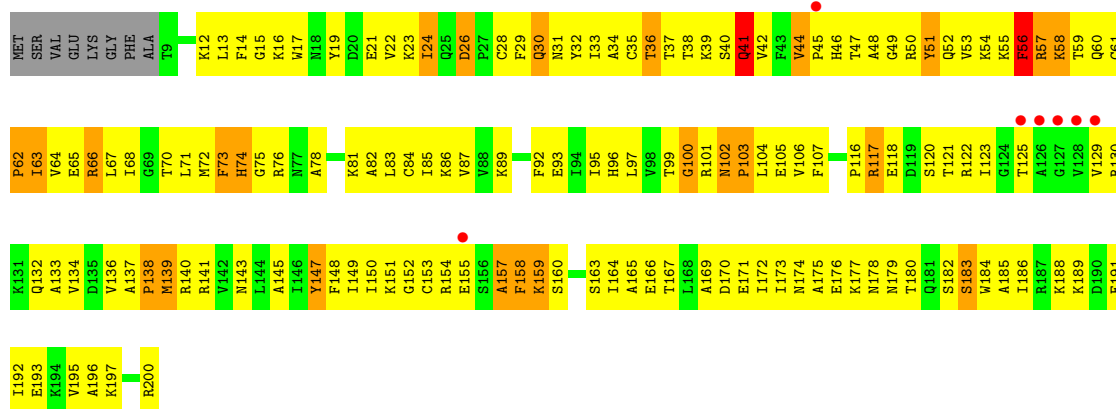
• Molecule 15: EIF1

Chain BF:



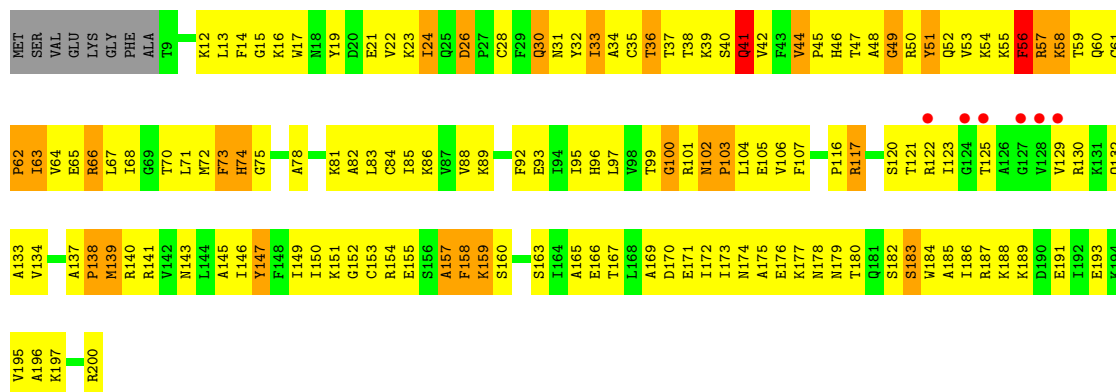
• Molecule 16: RIBOSOMAL PROTEIN S7 CONTAINING PROTEIN

Chain AG:



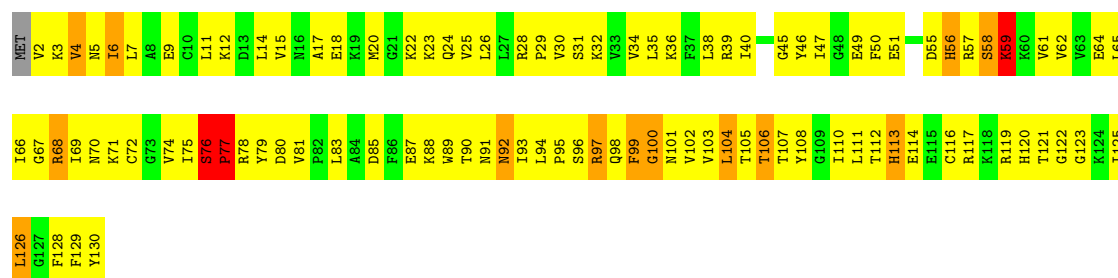
• Molecule 16: RIBOSOMAL PROTEIN S7 CONTAINING PROTEIN

Chain BG:



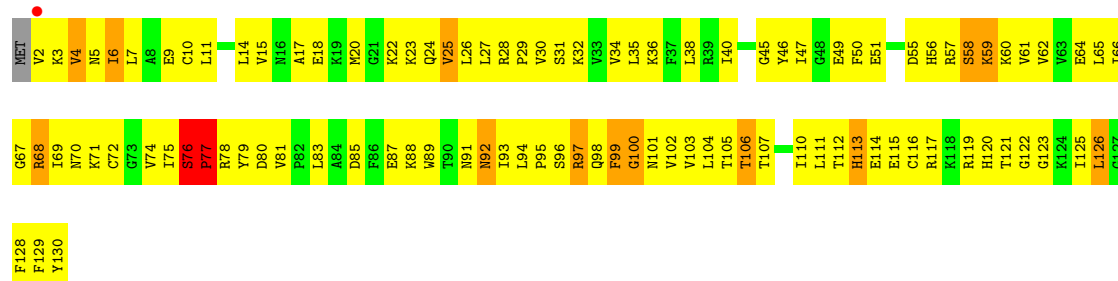
• Molecule 17: RIBOSOMAL PROTEIN S8 CONTAINING PROTEIN

Chain AH:



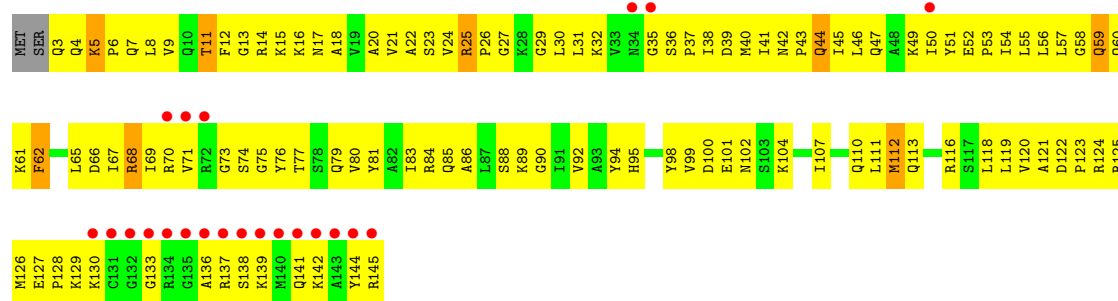
• Molecule 17: RIBOSOMAL PROTEIN S8 CONTAINING PROTEIN

Chain BH:



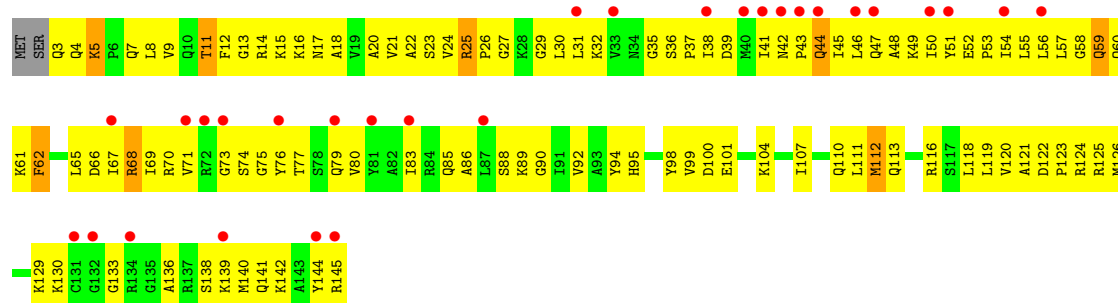
• Molecule 18: RPS16E, 40S RIBOSOMAL PROTEIN RPS16E

Chain AI:



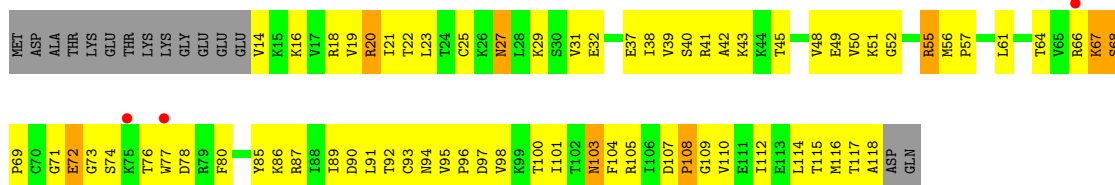
• Molecule 18: RPS16E, 40S RIBOSOMAL PROTEIN RPS16E

Chain BI:



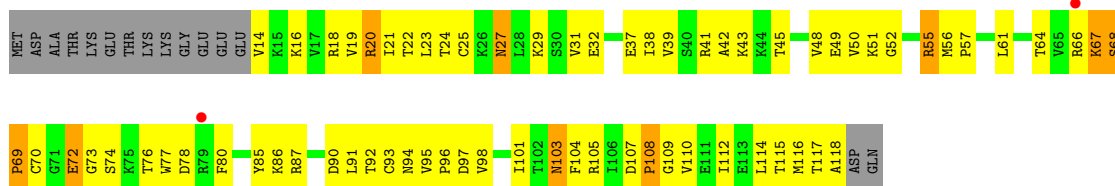
• Molecule 19: RIBOSOMAL PROTEIN S10 CONTAINING PROTEIN

Chain AJ:



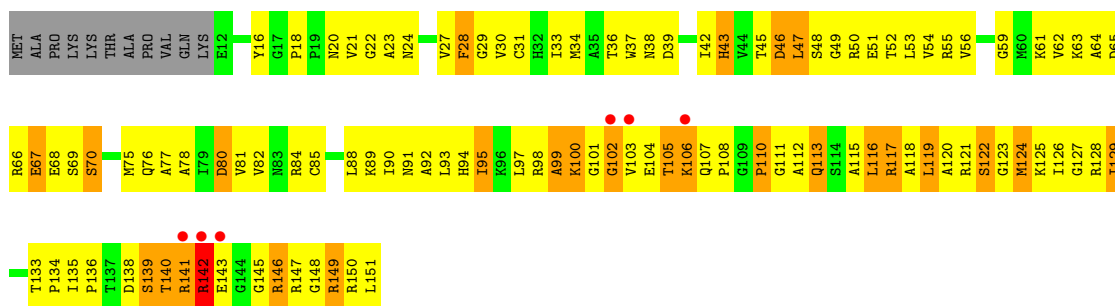
• Molecule 19: RIBOSOMAL PROTEIN S10 CONTAINING PROTEIN

Chain BJ:



• Molecule 20: RPS14E

Chain AK:



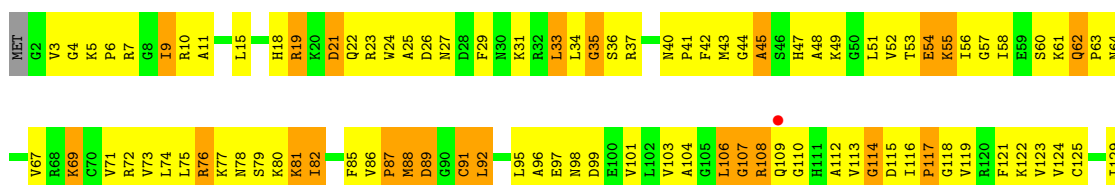
• Molecule 20: RPS14E

Chain BK:



• Molecule 21: 40S RIBOSOMAL PROTEIN S12

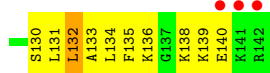
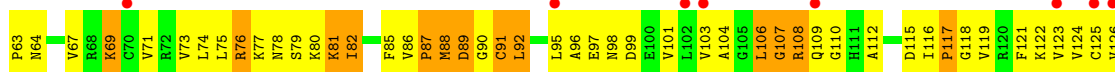
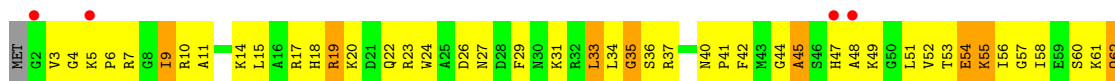
Chain AL:





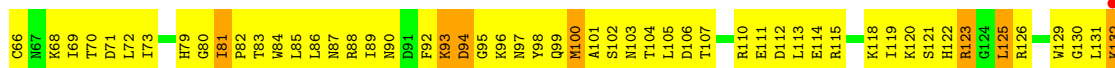
• Molecule 21: 40S RIBOSOMAL PROTEIN S12

Chain BL:



• Molecule 22: RPS18E

Chain AM:



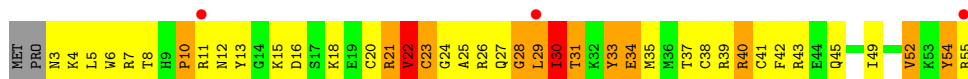
• Molecule 22: RPS18E

Chain BM:



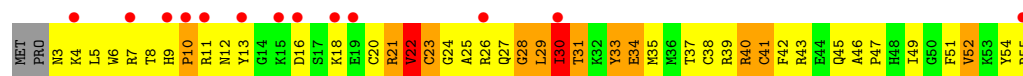
• Molecule 23: RPS29E

Chain AN:



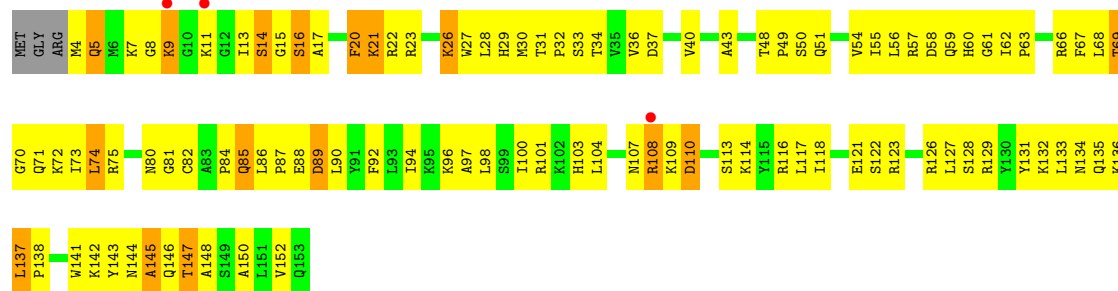
• Molecule 23: RPS29E

Chain BN: 



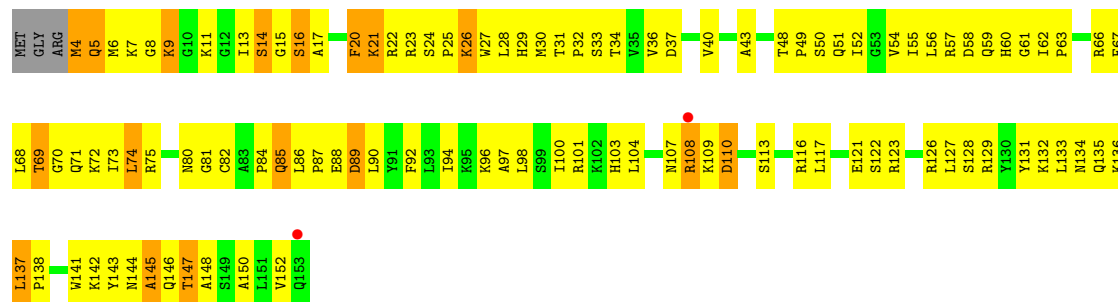
• Molecule 24: RPS13E

Chain AO: 



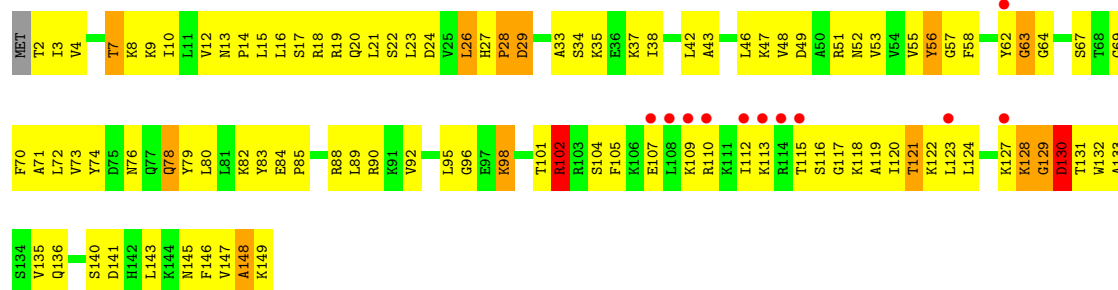
• Molecule 24: RPS13E

Chain BO: 



• Molecule 25: RPS24E

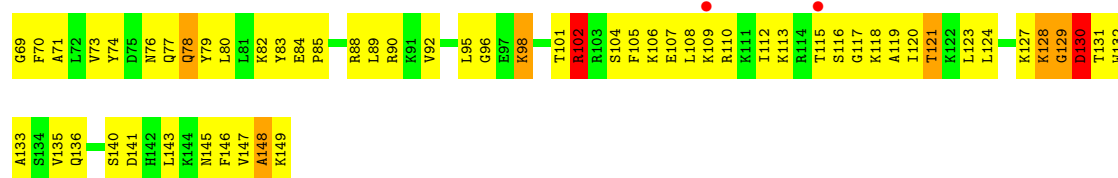
Chain AP: 



• Molecule 25: RPS24E

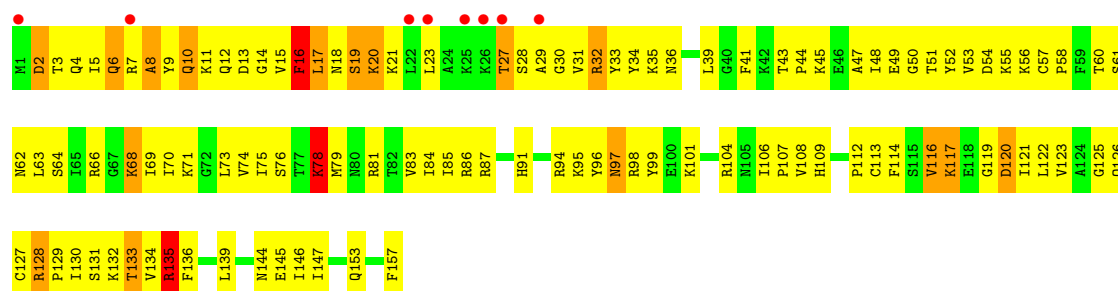
Chain BP: 





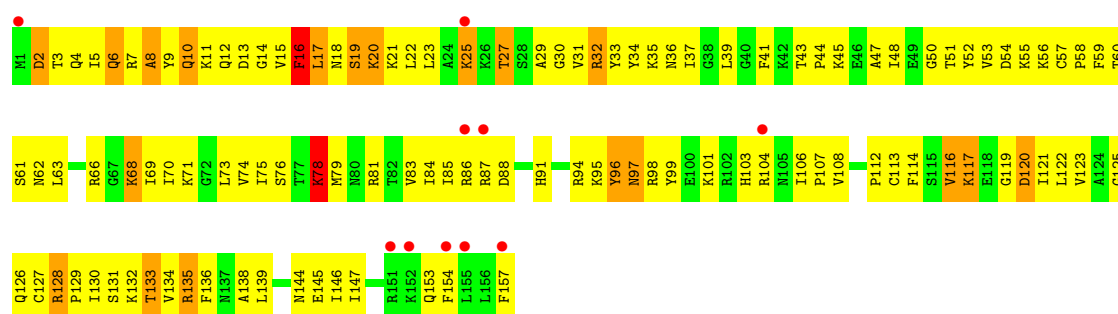
• Molecule 26: RIBOSOMAL PROTEIN S17 CONTAINING PROTEIN

Chain AQ:



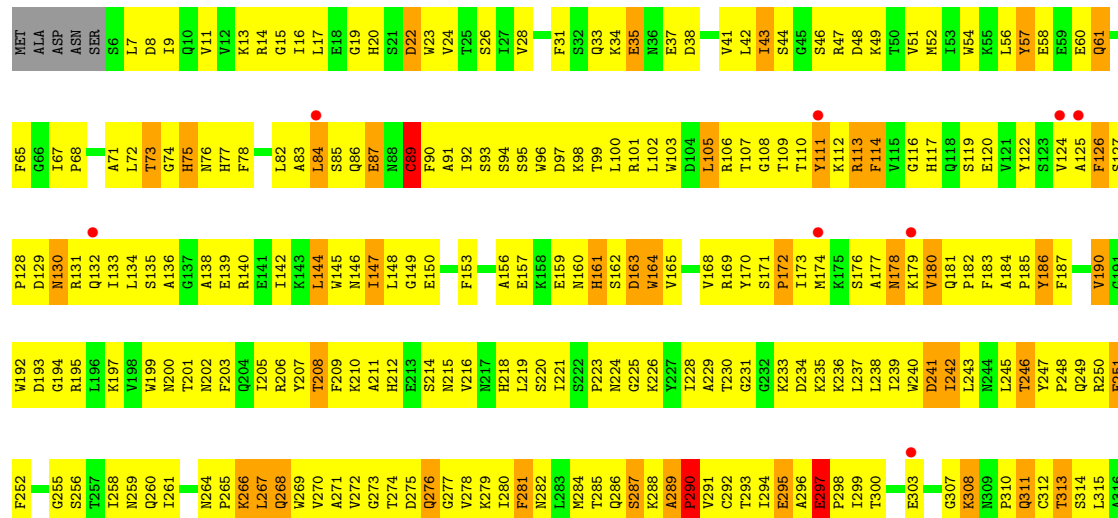
• Molecule 26: RIBOSOMAL PROTEIN S17 CONTAINING PROTEIN

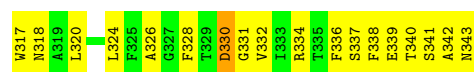
Chain BQ:



• Molecule 27: RACK1

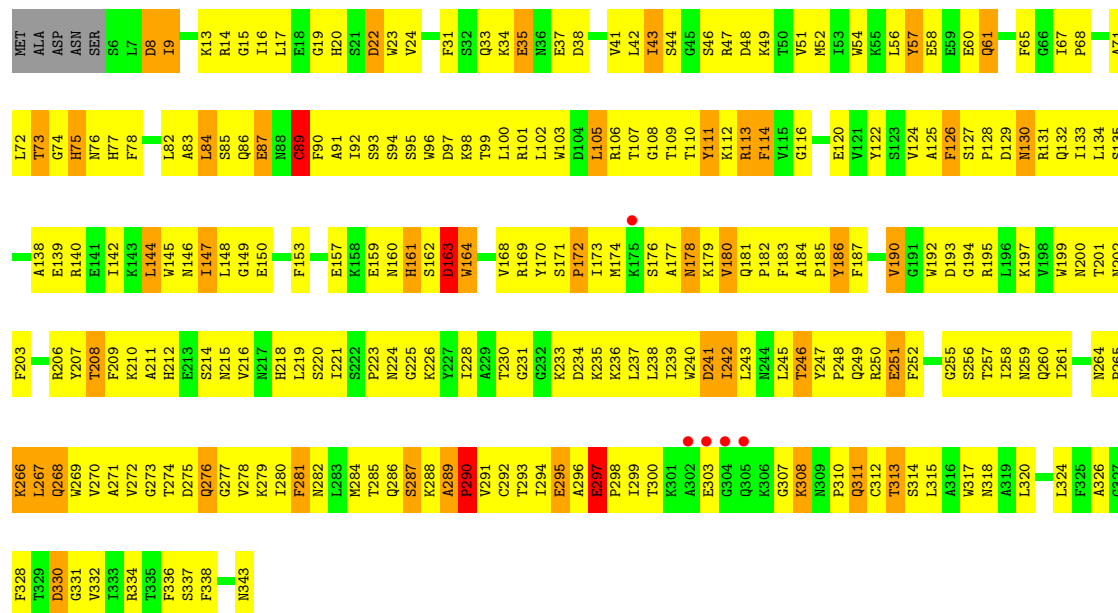
Chain AR:





• Molecule 27: RACK1

Chain BR:



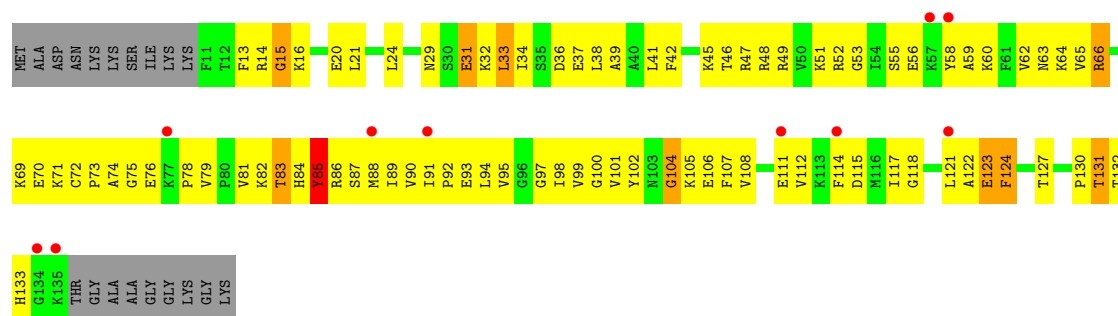
• Molecule 28: RPS15E

Chain AS:



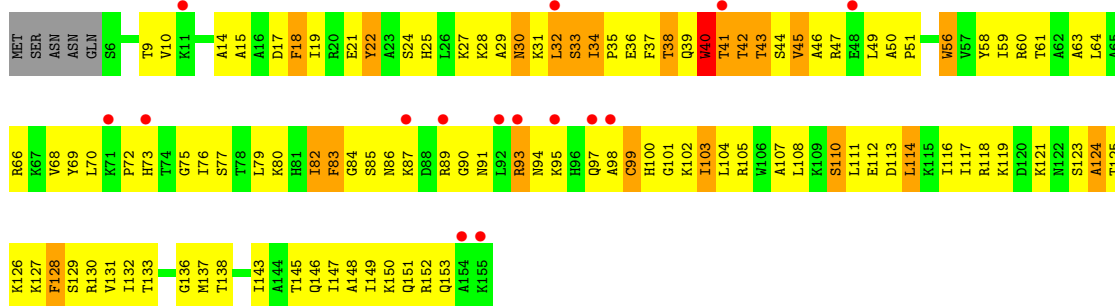
• Molecule 28: RPS15E

Chain BS:



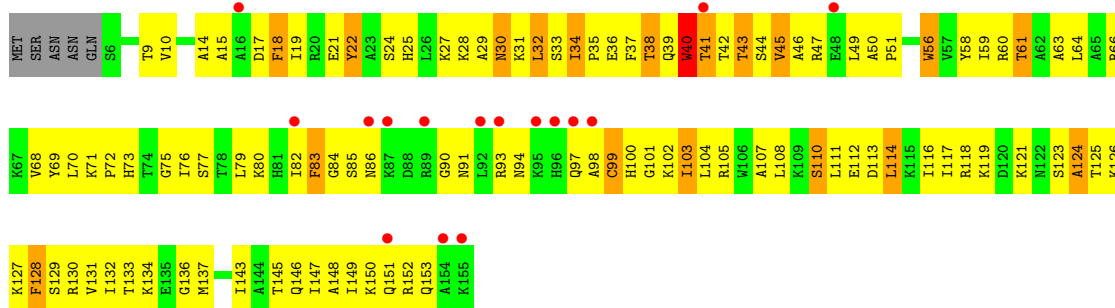
• Molecule 29: RPS19E

Chain AT:



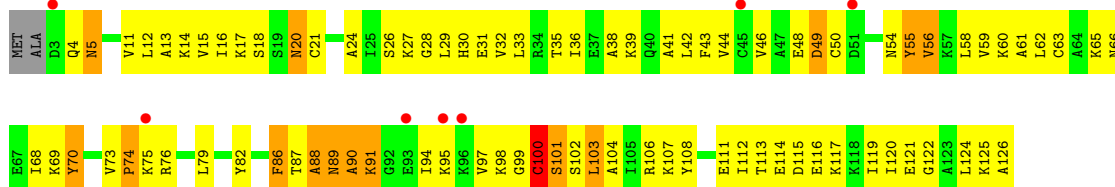
• Molecule 29: RPS19E

Chain BT:



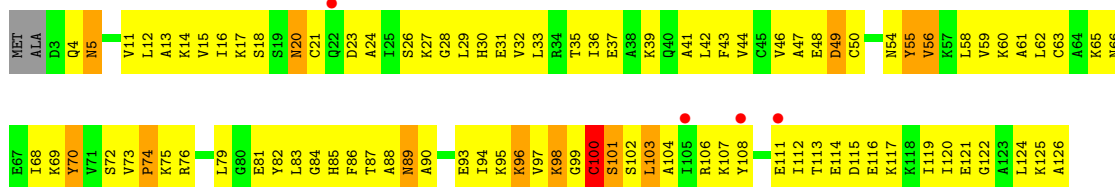
• Molecule 30: RIBOSOMAL PROTEIN L7AE CONTAINING PROTEIN

Chain AU:



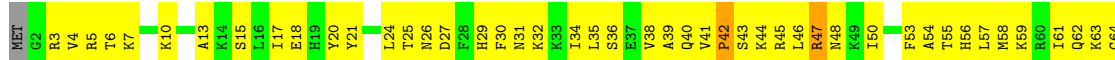
• Molecule 30: RIBOSOMAL PROTEIN L7AE CONTAINING PROTEIN

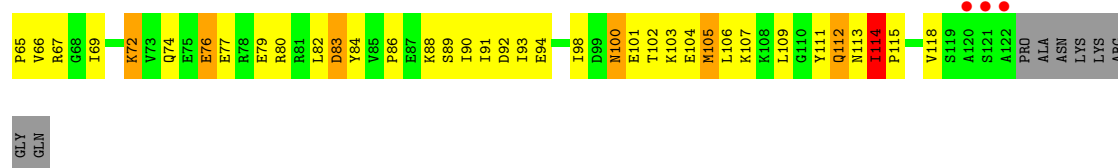
Chain BU:



• Molecule 31: RPS17E

Chain AV:





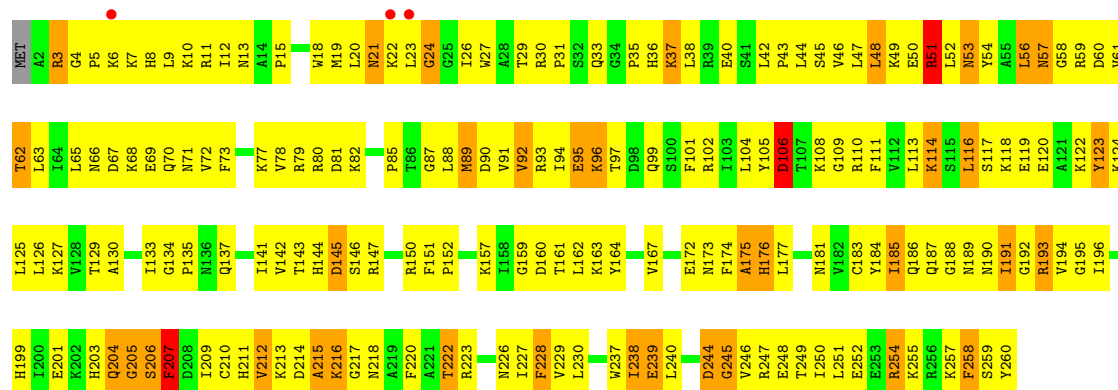
• Molecule 31: RPS17E

Chain BV:



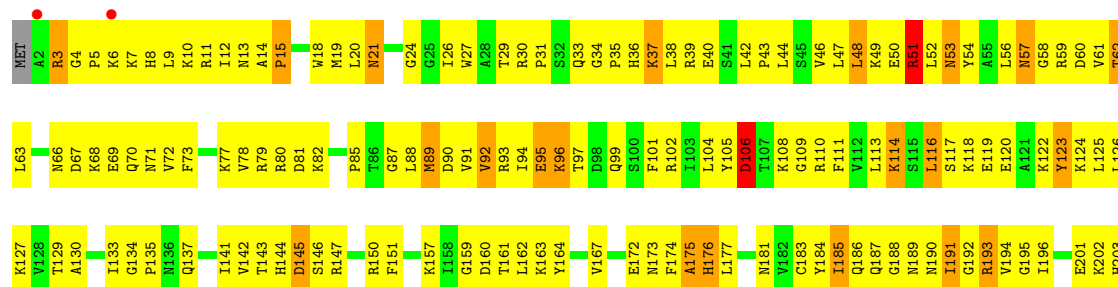
• Molecule 32: 40S RIBOSOMAL PROTEIN S4

Chain AW:



• Molecule 32: 40S RIBOSOMAL PROTEIN S4

Chain BW:



• Molecule 33: RPS30E

Chain AX:

ALA	THR	PRO	ALA	ALA	THR	LYS	VAL	ALA	PRO	LYS	THR	GLN	ALA	ALA	LYS	THR	THR	PRO	ALA	PRO	ALA	VAL	LYS	ASP	ALA	LYS	LYS	THR	THR	LYS	LYS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

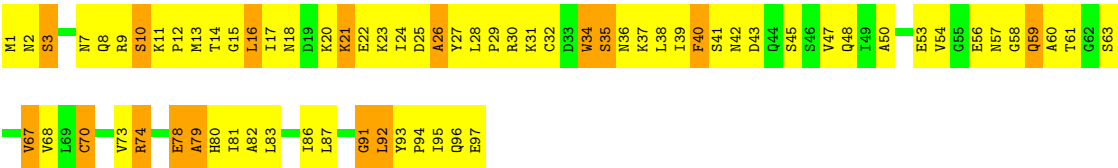
● Molecule 35: RPS21E

Chain AZ:



● Molecule 35: RPS21E

Chain BZ:



4 Data and refinement statistics

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 97.05 – 3.93	Depositor EDS
% Data completeness (in resolution range)	85.1 (25.00-3.93) 85.1 (97.05-3.93)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.24 (at 3.89Å)	Xtriage
Refinement program	CNS 1.3	Depositor
R, R_{free}	0.206 , 0.243 0.248 , 0.275	Depositor DCC
R_{free} test set	6661 reflections (2.04%)	DCC
Wilson B-factor (Å ²)	126.5	Xtriage
Anisotropy	0.335	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 96.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Outliers	0 of 364650 reflections	Xtriage
F_o, F_c correlation	0.89	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.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A1	0.38	0/518	0.74	0/688
1	B1	0.37	0/518	0.73	0/688
2	A2	0.38	0/1717	0.70	1/2288 (0.0%)
2	B2	0.39	0/1717	0.71	1/2288 (0.0%)
3	A3	0.41	0/1656	0.70	0/2223
3	B3	0.42	0/1656	0.71	0/2223
4	A4	0.40	0/1748	0.71	1/2340 (0.0%)
4	B4	0.40	0/1748	0.71	1/2340 (0.0%)
5	A5	0.42	0/807	0.77	0/1077
5	B5	0.43	0/807	0.77	0/1077
6	A6	0.46	0/640	0.71	0/855
6	B6	0.48	0/640	0.71	0/855
7	A7	0.40	0/879	0.73	0/1183
7	B7	0.43	0/879	0.73	0/1183
8	A8	0.38	0/732	0.66	0/974
8	B8	0.37	0/732	0.65	0/974
9	A9	0.39	0/605	0.69	0/799
9	B9	0.39	0/605	0.69	0/799
10	AA	0.59	6/41668 (0.0%)	0.86	69/64931 (0.1%)
10	BA	0.58	6/41668 (0.0%)	0.86	70/64931 (0.1%)
11	AB	0.41	0/1676	0.66	0/2273
11	BB	0.40	0/1676	0.66	0/2273
12	AC	0.43	0/1855	0.71	0/2490
12	BC	0.42	0/1855	0.71	0/2490
13	AD	0.43	0/1498	0.69	0/1998
13	BD	0.41	0/1498	0.68	0/1998
14	AE	0.47	0/1873	0.75	1/2533 (0.0%)
14	BE	0.46	0/1873	0.74	1/2533 (0.0%)
15	AF	0.43	0/751	0.68	0/1010
15	BF	0.44	0/751	0.68	0/1010
16	AG	0.45	0/1546	0.71	0/2079
16	BG	0.45	0/1546	0.71	0/2079

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AH	0.48	0/1058	0.83	0/1421
17	BH	0.49	0/1058	0.85	1/1421 (0.1%)
18	AI	0.42	0/1151	0.68	0/1540
18	BI	0.41	0/1151	0.68	0/1540
19	AJ	0.38	0/842	0.77	0/1133
19	BJ	0.39	0/842	0.77	0/1133
20	AK	0.42	0/1078	0.73	0/1452
20	BK	0.41	0/1078	0.73	0/1452
21	AL	0.41	0/1114	0.73	0/1485
21	BL	0.43	0/1114	0.74	0/1485
22	AM	0.37	0/1260	0.67	0/1690
22	BM	0.39	0/1260	0.67	0/1690
23	AN	0.46	0/457	0.74	0/608
23	BN	0.49	0/457	0.75	0/608
24	AO	0.43	0/1238	0.74	1/1658 (0.1%)
24	BO	0.41	0/1238	0.73	1/1658 (0.1%)
25	AP	0.41	0/1215	0.70	0/1626
25	BP	0.41	0/1215	0.69	0/1626
26	AQ	0.46	0/1298	0.74	0/1741
26	BQ	0.44	0/1298	0.74	0/1741
27	AR	0.38	0/2750	0.69	0/3726
27	BR	0.38	0/2750	0.69	0/3726
28	AS	0.37	0/1003	0.65	1/1342 (0.1%)
28	BS	0.39	0/1003	0.66	1/1342 (0.1%)
29	AT	0.43	0/1233	0.66	0/1656
29	BT	0.42	0/1233	0.66	0/1656
30	AU	0.35	0/961	0.63	0/1288
30	BU	0.35	0/961	0.62	0/1288
31	AV	0.40	0/992	0.69	0/1326
31	BV	0.42	0/992	0.68	0/1326
32	AW	0.42	0/2119	0.74	0/2849
32	BW	0.42	0/2119	0.73	0/2849
33	AX	0.36	0/566	0.70	0/753
33	BX	0.36	0/566	0.71	0/753
34	AY	0.38	0/1895	0.67	0/2523
34	BY	0.38	0/1895	0.67	0/2523
35	AZ	0.42	0/755	0.75	0/1013
35	BZ	0.42	0/755	0.76	0/1013
All	All	0.51	12/166308 (0.0%)	0.79	150/241142 (0.1%)

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

of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
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 (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	AA	1109	U	O3'-P	7.44	1.70	1.61
10	BA	1	A	OP3-P	-7.12	1.52	1.61
10	AA	1	A	OP3-P	-6.89	1.52	1.61
10	BA	1109	U	O3'-P	-6.87	1.52	1.61
10	AA	1721	G	O3'-P	6.41	1.68	1.61
10	BA	1721	G	O3'-P	6.17	1.68	1.61
10	AA	75	C	N1-C2	5.66	1.45	1.40
10	AA	565	G	C2-N3	5.43	1.37	1.32
10	BA	565	G	N9-C4	5.32	1.42	1.38
10	AA	1109	U	C3'-O3'	5.13	1.49	1.42
10	BA	1722	U	C5'-C4'	5.10	1.57	1.51
10	BA	565	G	C2-N3	5.04	1.36	1.32

All (150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AA	1718	A	N9-C1'-C2'	11.64	129.13	114.00
10	BA	1718	A	N9-C1'-C2'	11.45	128.89	114.00
10	BA	1749	C	N1-C1'-C2'	10.71	127.93	114.00
10	BA	391	A	N9-C1'-C2'	10.52	127.67	114.00
10	AA	391	A	N9-C1'-C2'	10.36	127.47	114.00
10	AA	1749	C	N1-C1'-C2'	10.34	127.44	114.00
10	AA	1714	U	N1-C1'-C2'	8.92	125.60	114.00
10	AA	616	A	N9-C1'-C2'	8.85	125.51	114.00
10	BA	1714	U	N1-C1'-C2'	8.79	125.43	114.00
10	BA	616	A	N9-C1'-C2'	8.77	125.40	114.00
10	BA	531	A	N9-C1'-C2'	8.04	124.46	114.00
10	AA	531	A	N9-C1'-C2'	8.02	124.43	114.00
10	AA	588	A	N9-C1'-C2'	7.35	123.56	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AA	306	A	N9-C1'-C2'	7.30	123.50	114.00
10	BA	1003	A	N9-C1'-C2'	-7.28	104.00	112.00
10	AA	1003	A	N9-C1'-C2'	-7.15	104.14	112.00
10	BA	460	A	N9-C1'-C2'	7.14	123.29	114.00
10	AA	431	U	N1-C1'-C2'	7.08	123.21	114.00
10	BA	431	U	N1-C1'-C2'	7.07	123.19	114.00
10	AA	748	U	N1-C1'-C2'	6.99	123.09	114.00
10	AA	559	C	N1-C1'-C2'	6.95	123.03	114.00
14	AE	230	PHE	N-CA-C	-6.95	92.24	111.00
10	AA	460	A	N9-C1'-C2'	6.93	123.02	114.00
10	BA	1172	G	N9-C1'-C2'	6.91	122.98	114.00
10	AA	981	A	N9-C1'-C2'	6.88	122.94	114.00
10	AA	1753	A	O5'-P-OP1	-6.86	99.53	105.70
10	BA	306	A	N9-C1'-C2'	6.86	122.91	114.00
14	BE	230	PHE	N-CA-C	-6.84	92.52	111.00
10	AA	2	A	N9-C1'-C2'	6.82	122.87	114.00
10	BA	981	A	N9-C1'-C2'	6.79	122.82	114.00
10	AA	1092	U	N1-C1'-C2'	6.76	122.79	114.00
10	BA	588	A	N9-C1'-C2'	6.74	122.77	114.00
10	BA	378	A	N9-C1'-C2'	6.71	122.73	114.00
10	AA	1717	C	OP2-P-O3'	6.65	119.82	105.20
10	BA	559	C	N1-C1'-C2'	6.60	122.58	114.00
10	BA	1487	A	C2'-C3'-O3'	6.56	124.19	113.70
10	AA	378	A	N9-C1'-C2'	6.54	122.50	114.00
10	BA	955	A	O4'-C1'-N9	-6.53	102.98	108.20
10	BA	617	A	N9-C1'-C2'	6.52	122.47	114.00
10	AA	617	A	N9-C1'-C2'	6.51	122.47	114.00
10	AA	391	A	O4'-C1'-N9	6.49	113.40	108.20
10	BA	955	A	C4-N9-C1'	6.47	137.96	126.30
10	AA	565	G	N3-C2-N2	6.45	124.41	119.90
10	BA	2	A	N9-C1'-C2'	6.43	122.36	114.00
10	BA	565	G	N3-C2-N2	6.42	124.39	119.90
10	AA	955	A	C4-N9-C1'	6.36	137.75	126.30
10	BA	748	U	N1-C1'-C2'	6.36	122.26	114.00
10	AA	1172	G	C2'-C3'-O3'	6.35	123.86	113.70
10	AA	1408	U	N1-C1'-C2'	-6.30	105.07	112.00
10	BA	955	A	C8-N9-C1'	-6.30	116.36	127.70
10	BA	1092	U	N1-C1'-C2'	6.29	122.17	114.00
10	BA	391	A	O4'-C1'-N9	6.28	113.22	108.20
10	BA	1749	C	C4'-C3'-O3'	-6.25	96.28	109.40
10	BA	1172	G	C2'-C3'-O3'	6.23	123.66	113.70
10	BA	1605	A	OP2-P-O3'	6.22	118.88	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AA	955	A	C8-N9-C1'	-6.22	116.51	127.70
10	AA	955	A	O4'-C1'-N9	-6.17	103.26	108.20
10	BA	574	A	N9-C1'-C2'	6.12	121.96	114.00
10	AA	1487	A	C2'-C3'-O3'	6.10	123.47	113.70
10	AA	1573	G	N9-C1'-C2'	6.07	121.89	114.00
24	AO	70	GLY	N-CA-C	-6.07	97.92	113.10
10	AA	1172	G	N9-C1'-C2'	6.05	121.86	114.00
10	AA	574	A	N9-C1'-C2'	6.03	121.84	114.00
10	AA	1008	A	N9-C1'-C2'	6.03	121.84	114.00
4	A4	73	ALA	N-CA-C	-6.00	94.79	111.00
10	AA	75	C	N1-C2-O2	6.00	122.50	118.90
10	BA	1293	A	N9-C1'-C2'	5.99	121.79	114.00
10	BA	1408	U	N1-C1'-C2'	-5.96	105.45	112.00
10	AA	352	C	N1-C1'-C2'	-5.87	105.55	112.00
24	BO	70	GLY	N-CA-C	-5.83	98.54	113.10
4	B4	73	ALA	N-CA-C	-5.79	95.36	111.00
10	AA	1717	C	N1-C1'-C2'	5.79	121.52	114.00
10	AA	1721	G	O3'-P-O5'	5.77	114.96	104.00
10	AA	1749	C	C4'-C3'-O3'	-5.77	97.29	109.40
10	AA	436	C	N1-C1'-C2'	5.76	121.49	114.00
10	BA	1747	A	O4'-C1'-N9	5.75	112.80	108.20
10	BA	558	G	N9-C1'-C2'	5.75	121.47	114.00
10	BA	1573	G	N9-C1'-C2'	5.72	121.44	114.00
10	AA	1745	G	OP2-P-O3'	5.72	117.78	105.20
10	AA	1722	U	C2'-C3'-O3'	-5.70	96.95	109.50
10	BA	75	C	N1-C2-O2	5.70	122.32	118.90
10	BA	436	C	N1-C1'-C2'	5.68	121.38	114.00
10	BA	552	C	N1-C1'-C2'	5.67	121.37	114.00
10	BA	945	A	OP2-P-O3'	5.66	117.66	105.20
10	BA	565	G	N1-C2-N2	-5.66	111.11	116.20
10	AA	1747	A	O4'-C1'-N9	5.65	112.72	108.20
10	AA	164	U	N1-C1'-C2'	5.62	121.31	114.00
10	BA	1089	U	N1-C1'-C2'	5.62	121.30	114.00
10	AA	565	G	N1-C2-N2	-5.58	111.18	116.20
10	AA	558	G	N9-C1'-C2'	5.57	121.24	114.00
10	AA	840	A	OP2-P-O3'	5.55	117.40	105.20
10	BA	1008	A	N9-C1'-C2'	5.54	121.21	114.00
10	BA	617	A	C1'-O4'-C4'	-5.53	105.47	109.90
10	AA	766	G	N9-C1'-C2'	-5.51	105.94	112.00
10	AA	1089	U	N1-C1'-C2'	5.50	121.16	114.00
10	BA	352	C	N1-C1'-C2'	-5.49	105.96	112.00
10	AA	552	C	N1-C1'-C2'	5.47	121.11	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AA	603	U	N1-C1'-C2'	5.47	121.11	114.00
10	AA	531	A	C1'-O4'-C4'	-5.46	105.54	109.90
10	BA	766	G	N9-C1'-C2'	-5.44	106.02	112.00
10	BA	1722	U	C2'-C3'-O3'	-5.43	97.56	109.50
10	BA	607	G	C2'-C3'-O3'	5.39	122.33	113.70
10	AA	1749	C	C2'-C3'-O3'	5.38	122.31	113.70
2	B2	132	LYS	N-CA-C	5.38	125.52	111.00
10	BA	604	G	N9-C1'-C2'	5.37	120.98	114.00
10	AA	614	A	OP2-P-O3'	5.36	117.00	105.20
10	BA	531	A	O4'-C1'-N9	5.36	112.48	108.20
10	BA	1529	U	N1-C1'-C2'	5.35	120.95	114.00
10	AA	1418	C	N1-C1'-C2'	5.34	120.95	114.00
10	AA	617	A	C1'-O4'-C4'	-5.31	105.65	109.90
10	BA	786	A	N9-C1'-C2'	5.29	120.88	114.00
10	BA	124	U	N1-C1'-C2'	5.28	120.87	114.00
10	AA	1257	U	N1-C1'-C2'	5.27	120.85	114.00
28	AS	131	THR	N-CA-C	5.27	125.23	111.00
10	AA	531	A	O4'-C1'-N9	5.26	112.41	108.20
10	AA	1	A	OP1-P-OP2	-5.24	111.74	119.60
10	AA	1293	A	N9-C1'-C2'	5.23	120.80	114.00
2	A2	132	LYS	N-CA-C	5.22	125.10	111.00
10	BA	164	U	N1-C1'-C2'	5.22	120.79	114.00
10	BA	531	A	C1'-O4'-C4'	-5.21	105.73	109.90
10	AA	72	G	N9-C1'-C2'	-5.21	106.28	112.00
10	AA	162	A	C4-N9-C1'	5.19	135.65	126.30
10	BA	1006	C	N1-C1'-C2'	5.18	120.74	114.00
10	AA	604	G	N9-C1'-C2'	5.18	120.74	114.00
10	BA	603	U	N1-C1'-C2'	5.18	120.74	114.00
10	BA	1717	C	N1-C1'-C2'	5.17	120.72	114.00
10	BA	1277	U	N1-C1'-C2'	5.16	120.70	114.00
10	BA	1721	G	O3'-P-O5'	5.15	113.79	104.00
10	BA	891	G	N9-C1'-C2'	5.13	120.68	114.00
10	BA	72	G	N9-C1'-C2'	-5.12	106.36	112.00
10	BA	1	A	OP1-P-OP2	-5.12	111.92	119.60
17	BH	25	VAL	CB-CA-C	-5.12	101.68	111.40
10	BA	100	A	O4'-C1'-N9	-5.10	104.12	108.20
10	BA	1257	U	N1-C1'-C2'	5.09	120.61	114.00
10	AA	124	U	N1-C1'-C2'	5.07	120.58	114.00
10	BA	1071	U	O4'-C1'-N1	5.07	112.25	108.20
10	BA	1717	C	O4'-C4'-C3'	5.06	110.15	106.10
10	BA	162	A	C4-N9-C1'	5.06	135.41	126.30
10	AA	945	A	OP2-P-O3'	5.05	116.32	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	BA	559	C	O4'-C1'-N1	5.05	112.24	108.20
10	AA	617	A	O4'-C1'-N9	5.05	112.24	108.20
10	AA	72	G	N3-C2-N2	5.05	123.44	119.90
10	AA	2	A	O4'-C1'-N9	5.05	112.24	108.20
10	BA	301	C	C5'-C4'-C3'	-5.05	107.93	116.00
28	BS	131	THR	N-CA-C	5.04	124.59	111.00
10	AA	786	A	N9-C1'-C2'	5.03	120.53	114.00
10	BA	676	C	C2'-C3'-O3'	5.02	121.74	113.70
10	BA	614	A	OP2-P-O3'	5.02	116.24	105.20
10	AA	155	U	O4'-C1'-N1	5.01	112.20	108.20
10	AA	2	A	C1'-O4'-C4'	-5.00	105.90	109.90

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
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

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Mol	Chain	Res	Type	Group
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
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

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Mol	Chain	Res	Type	Group
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
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

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Mol	Chain	Res	Type	Group
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
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

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Mol	Chain	Res	Type	Group
26	BQ	96	TYR	Sidechain
27	BR	186	TYR	Sidechain

5.2 Close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	519	0	550	78	0
1	B1	519	0	550	80	0
2	A2	1693	0	1795	257	0
2	B2	1693	0	1795	265	0
3	A3	1629	0	1708	185	0
3	B3	1629	0	1708	178	0
4	A4	1724	0	1822	197	0
4	B4	1724	0	1822	191	0
5	A5	797	0	836	121	0
5	B5	797	0	837	108	0
6	A6	632	0	646	88	0
6	B6	632	0	646	97	0
7	A7	859	0	860	123	0
7	B7	859	0	860	129	0
8	A8	725	0	795	134	0
8	B8	725	0	795	124	0
9	A9	742	0	785	148	0
9	B9	742	0	787	134	0
10	AA	37231	0	18715	3075	0
10	BA	37231	0	18715	3021	0
11	AB	1642	0	1653	207	0
11	BB	1642	0	1653	216	0
12	AC	1820	0	1920	241	0
12	BC	1820	0	1920	236	0
13	AD	1475	0	1571	213	0
13	BD	1475	0	1571	211	0
14	AE	1827	0	1861	287	0
14	BE	1827	0	1861	282	0
15	AF	736	0	722	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	BF	736	0	722	88	0
16	AG	1520	0	1572	231	0
16	BG	1520	0	1572	231	0
17	AH	1040	0	1096	166	0
17	BH	1040	0	1096	170	0
18	AI	1135	0	1204	159	0
18	BI	1135	0	1204	146	0
19	AJ	833	0	903	82	0
19	BJ	833	0	903	81	0
20	AK	1063	0	1088	184	0
20	BK	1063	0	1088	178	0
21	AL	1097	0	1169	138	0
21	BL	1097	0	1169	135	0
22	AM	1239	0	1288	192	0
22	BM	1239	0	1288	192	0
23	AN	447	0	446	74	0
23	BN	447	0	446	81	0
24	AO	1214	0	1322	131	0
24	BO	1214	0	1322	131	0
25	AP	1197	0	1285	152	0
25	BP	1197	0	1285	142	0
26	AQ	1275	0	1354	213	0
26	BQ	1275	0	1354	199	0
27	AR	2682	0	2629	355	0
27	BR	2682	0	2629	327	0
28	AS	985	0	1026	114	0
28	BS	985	0	1026	122	0
29	AT	1211	0	1265	159	0
29	BT	1211	0	1265	162	0
30	AU	952	0	993	107	0
30	BU	952	0	993	124	0
31	AV	979	0	1041	136	0
31	BV	979	0	1041	141	0
32	AW	2079	0	2151	286	0
32	BW	2079	0	2151	293	0
33	AX	554	0	604	64	0
33	BX	554	0	604	72	0
34	AY	1868	0	1999	256	0
34	BY	1868	0	1999	242	0
35	AZ	747	0	758	107	0
35	BZ	747	0	758	109	0
36	A4	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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	15283	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 55.

All (15283) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(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:HD12	21:AL:9:ILE:H	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:HH11	16:AG:57:ARG:HA	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
16:BG:57:ARG:HA	16:BG:57:ARG:HH11	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
10:BA:500:U:H2'	10:BA:501:U:H5''	1.30	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1454:A:H4'	18:BI:74:SER:HA	1.31	1.10
10:BA:1325:G:H2'	10:BA:1326:C:H5''	1.17	1.10
35:BZ:40:PHE:HB2	35:BZ:43:ASP:HB2	1.34	1.10
19:BJ:49:GLU:HB2	19:BJ:92:THR:HB	1.31	1.10
30:AU:89:ASN:HD22	30:AU:90:ALA:N	1.49	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
21:BL:9:ILE:H	21:BL:9:ILE:HD12	0.97	1.08
10:BA:45:A:H4'	10:BA:46:A:H5'	1.27	1.08
4:B4:126:ALA:HB1	4:B4:175:ASN:HD21	1.12	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: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
10:AA:1212:U:H3'	10:AA:1213:G:H5''	1.34	1.07
10:BA:1530:U:H4'	10:BA:1531:G:OP2	1.52	1.07
9:B9:155:UNK:O	9:B9:158:UNK:HG3	1.52	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
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
31:AV:61:ILE:HG12	31:AV:66:VAL:HG21	1.36	1.07
17:BH:59:LYS:HD3	17:BH:59:LYS:H	1.13	1.06
9:A9:126:ALA:HA	10:AA:1224:C:H5'	1.37	1.06
12:BC:35:ALA:HB2	12:BC:60:GLN:HB2	1.37	1.06
24:AO:86:LEU:HD12	24:AO:87:PRO:HD2	1.31	1.06
14:AE:154:THR:HG22	14:AE:155:ILE:H	0.95	1.06
10:AA:1370:U:H2'	10:AA:1371:A:H5'	1.31	1.06
13:AD:53:ARG:NH1	14:AE:176:GLY:HA3	1.71	1.06
10:AA:669:G:H2'	10:AA:670:G:H5''	1.36	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
26:BQ:116:VAL:HG12	26:BQ:117:LYS:H	1.19	1.05
22:BM:1:MET:HG2	22:BM:2:SER:H	1.16	1.05
19:AJ:49:GLU:HB2	19:AJ:92:THR:HB	1.34	1.05
10:AA:1322:U:H5''	18:AI:70:ARG:HH12	1.12	1.05
34:BY:5:ILE:HG12	34:BY:111:LEU:HB2	1.38	1.05

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:797:A:H2'	10:BA:798:G:O4'	1.56	1.05
26:AQ:85:ILE:HD11	26:AQ:122:LEU:HD13	1.39	1.05
10:AA:1530:U:H4'	10:AA:1531:G:OP2	1.51	1.05
13:BD:17:ARG:HH22	14:BE:183:PRO:HD3	1.22	1.05
10:AA:886:U:H3'	10:AA:887:U:H5''	1.11	1.05
5:A5:30:VAL:HG11	5:A5:35:ALA:HB2	1.36	1.05
34:BY:23:LYS:HD3	34:BY:41:LEU:HD23	1.38	1.04
1:B1:41:LEU:HD23	1:B1:43:ARG:HD3	1.32	1.04
14:BE:154:THR:HG22	14:BE:155:ILE:N	1.71	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
25:BP:2:THR:HG22	25:BP:3:ILE:H	1.19	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
4:A4:63:ILE:HG22	4:A4:66:ARG:HG3	1.40	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
10:BA:1748:U:O2'	10:BA:1750:A:H2	1.39	1.03
34:AY:23:LYS:HD3	34:AY:41:LEU:HD23	1.37	1.03
10:AA:1072:G:H4'	10:AA:1073:G:OP2	1.59	1.03
21:AL:19:ARG:NH1	21:AL:19:ARG:HA	1.73	1.03
10:AA:1732:U:H6	10:AA:1732:U:H5'	1.20	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
14:AE:154:THR:HG22	14:AE:155:ILE:N	1.69	1.02
34:AY:160:VAL:HG12	34:AY:161:ILE:H	1.19	1.02
10:AA:1748:U:O2'	10:AA:1750:A:H2	1.38	1.02
10:BA:1245:G:H4'	10:BA:1246:C:H5''	1.40	1.02
34:AY:5:ILE:HG12	34:AY:111:LEU:HB2	1.40	1.02
13:BD:40:ARG:HG3	13:BD:41:GLU:H	1.18	1.02
1:B1:18:THR:HG22	1:B1:19:GLY:H	1.24	1.02
9:A9:144:ASP:O	9:A9:147:UNK:HG3	1.57	1.02
10:AA:604:G:N1	10:AA:1080:G:N2	2.07	1.02
9:B9:144:ASP:O	9:B9:147:UNK:HG3	1.59	1.02
14:AE:231:TRP:HE1	17:AH:68:ARG:CZ	1.72	1.02
12:AC:35:ALA:HB2	12:AC:60:GLN:HB2	1.41	1.02
2:B2:18:MET:HG2	2:B2:19:PRO:HD2	1.38	1.02
8:A8:57:PRO:HB3	8:A8:87:MET:HE3	1.40	1.02
18:AI:26:PRO:HA	18:AI:65:LEU:HD22	1.41	1.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
8:B8:57:PRO:HB3	8:B8:87:MET:HE3	1.39	1.01
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
11:AB:5:ARG:HH11	11:AB:5:ARG:HA	1.26	1.01
9:A9:159:UNK:HA	9:A9:162:UNK:HG3	1.41	1.01
3:A3:103:LYS:HD2	10:AA:633:U:H3'	1.40	1.01
9:B9:159:UNK:HA	9:B9:162:UNK:HG3	1.42	1.01
9:A9:143:ILE:HB	9:A9:146:UNK:HB1	1.42	1.01
11:BB:5:ARG:HH11	11:BB:5:ARG:HA	1.26	1.01
10:BA:4:C:OP2	14:BE:201:SER:HB3	1.61	1.01
10:AA:145:G:N2	10:AA:157:G:H21	1.57	1.01
14:BE:154:THR:CG2	14:BE:155:ILE:H	1.71	1.00
22:AM:146:VAL:HG12	22:AM:147:VAL:H	1.21	1.00
31:BV:61:ILE:HG12	31:BV:66:VAL:HG21	1.37	1.00
2:A2:18:MET:HG2	2:A2:19:PRO:HD2	1.42	1.00
24:AO:100:ILE:HG21	24:AO:117:LEU:HB2	1.41	1.00
10:AA:797:A:H2'	10:AA:798:G:O4'	1.57	1.00
20:BK:21:VAL:HG12	20:BK:22:GLY:H	1.26	1.00
21:BL:19:ARG:HH11	21:BL:19:ARG:HA	1.26	1.00
5:B5:37:LYS:O	5:B5:38:ARG:HG3	1.58	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
10:BA:1511:A:H5''	22:BM:40:ARG:NH1	1.76	1.00
27:AR:146:ASN:HD22	27:AR:150:GLU:HB2	1.25	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
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
22:BM:146:VAL:HG12	22:BM:147:VAL:H	1.24	1.00
14:BE:56:LYS:HA	14:BE:56:LYS:HE3	1.42	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BE:231:TRP:HE1	17:BH:68:ARG:CZ	1.74	0.99
34:AY:26:ILE:O	34:AY:30:LYS:HE3	1.62	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:OP2	1.58	0.99
13:AD:81:PHE:HZ	13:AD:88:GLU:HG3	1.27	0.99
10:AA:407:A:H4'	10:AA:408:C:OP2	1.62	0.99
1:A1:18:THR:HG22	1:A1:19:GLY:H	1.28	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
10:BA:133:A:H4'	10:BA:134:C:C5'	1.92	0.99
3:B3:93:PHE:HZ	3:B3:166:LYS:HB3	1.25	0.99
10:BA:1570:U:H2'	10:BA:1571:C:H5''	1.40	0.99
5:B5:46:ASP:HB2	5:B5:47:PRO:HD2	1.42	0.98
10:AA:1605:A:H4'	10:AA:1606:C:O5'	1.63	0.98
16:AG:54:LYS:HG2	16:AG:55:LYS:H	1.28	0.98
5:B5:77:ILE:O	5:B5:81:ILE:HD12	1.64	0.98
10:AA:955:A:C2'	10:AA:956:A:H5'	1.93	0.98
1:A1:12:MET:HB3	1:A1:28:ARG:HG2	1.41	0.98
11:BB:194:MET:HE1	31:BV:89:SER:H	1.26	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
21:BL:19:ARG:HA	21:BL:19:ARG:NH1	1.78	0.98
10:BA:955:A:C2'	10:BA:956:A:H5'	1.94	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
18:BI:26:PRO:HA	18:BI:65:LEU:HD22	1.43	0.97
13:AD:94:ASP:HB3	14:AE:149:ILE:HD11	1.44	0.97
10:AA:500:U:C2'	10:AA:501:U:H5''	1.94	0.97
5:A5:46:ASP:HB2	5:A5:47:PRO:HD2	1.43	0.97
16:AG:37:THR:HG22	16:AG:39:LYS:H	1.30	0.97
11:AB:25:LEU:HD22	11:AB:33:ILE:HD13	1.45	0.97
20:BK:54:VAL:HG11	20:BK:81:VAL:HG13	1.44	0.97
10:BA:500:U:C2'	10:BA:501:U:H5''	1.94	0.97
10:AA:1430:C:H5''	22:AM:138:THR:HG21	1.43	0.97
13:BD:81:PHE:HZ	13:BD:88:GLU:HG3	1.28	0.97
10:BA:796:U:H2'	10:BA:797:A:H5'	1.43	0.97
10:AA:145:G:H1	10:AA:157:G:N2	1.61	0.97
8:B8:95:LYS:HG2	8:B8:105:TYR:CE2	1.99	0.97
14:AE:56:LYS:HA	14:AE:56:LYS:HE3	1.43	0.97
13:BD:129:ILE:HG22	13:BD:134:ILE:HD12	1.47	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
30:BU:56:VAL:HG12	30:BU:60:LYS:HE3	1.41	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
6:B6:9:ILE:HB	6:B6:12:GLU:HG2	1.46	0.97
21:BL:9:ILE:CD1	21:BL:9:ILE:H	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
16:BG:37:THR:HG22	16:BG:39:LYS:H	1.25	0.97
10:BA:695:G:H1	10:BA:707:U:H3	1.13	0.97
10:AA:1720:G:H3'	10:AA:1720:G:OP2	1.65	0.96
20:AK:65:ASP:O	20:AK:68:GLU:HG2	1.64	0.96
14:AE:228:PRO:HB3	17:AH:68:ARG:HH21	1.28	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
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
30:BU:79:LEU:HD22	30:BU:103:LEU:HD11	1.46	0.96
10:BA:407:A:H4'	10:BA:408:C:OP2	1.63	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
10:AA:309:U:H2'	10:AA:310:C:H5''	1.48	0.96
3:A3:144:ARG:HH22	35:AZ:3:SER:HB2	1.31	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
10:AA:1746:G:O2'	10:AA:1747:A:H5''	1.65	0.96
8:A8:95:LYS:HG2	8:A8:105:TYR:CE2	2.00	0.96
10:AA:415:G:H4'	10:AA:416:C:OP1	1.62	0.96
3:B3:60:ALA:CB	3:B3:91:ILE:HB	1.96	0.96
14:AE:154:THR:CG2	14:AE:155:ILE:H	1.69	0.95
10:AA:4:C:OP2	14:AE:201:SER:HB3	1.66	0.95
27:BR:94:SER:HB3	27:BR:124:VAL:HG23	1.46	0.95
10:BA:881:U:H2'	10:BA:882:G:H5''	1.47	0.95
10:BA:415:G:H4'	10:BA:416:C:OP1	1.64	0.95
27:AR:267:LEU:HD12	27:AR:267:LEU:H	1.30	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:892:G:HO2'	10:AA:893:A:H8	1.00	0.95
20:BK:65:ASP:O	20:BK:68:GLU:HG2	1.64	0.95
10:AA:494:A:H3'	10:AA:495:C:H5''	1.48	0.95
21:BL:9:ILE:HD12	21:BL:9:ILE:N	1.79	0.95
13:AD:129:ILE:HG22	13:AD:134:ILE:HD12	1.47	0.95
10:AA:561:A:H1'	33:AX:14:VAL:HG23	1.46	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
16:BG:117:ARG:HD2	16:BG:193:GLU:OE2	1.67	0.95
30:AU:79:LEU:HD22	30:AU:103:LEU:HD11	1.48	0.95
10:AA:135:A:H3'	34:AY:183:ILE:HD11	1.46	0.95
3:A3:60:ALA:CB	3:A3:91:ILE:HB	1.97	0.95
13:AD:8:THR:HG22	13:AD:9:SER:H	1.31	0.94
10:AA:905:C:O2	20:AK:138:ASP:HB3	1.65	0.94
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
29:BT:43:THR:OG1	29:BT:50:ALA:HA	1.67	0.94
10:AA:1745:G:H4'	10:AA:1746:G:OP1	1.68	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:133:A:H4'	10:AA:134:C:H5'	1.48	0.94
10:BA:1720:G:H3'	10:BA:1720:G:OP2	1.66	0.94
4:B4:89:LEU:HB3	4:B4:101:THR:HG21	1.49	0.94
10:AA:49:C:O2'	10:AA:50:A:H5''	1.68	0.94
10:BA:494:A:H3'	10:BA:495:C:H5''	1.49	0.94
10:AA:77:G:H8	10:AA:77:G:H5'	1.33	0.94
10:AA:1137:A:H4'	16:AG:73:PHE:HE2	1.31	0.94
13:BD:8:THR:HG22	13:BD:9:SER:H	1.32	0.94
34:AY:132:LYS:HE2	34:AY:163:ARG:HD3	1.48	0.94
16:AG:117:ARG:HD2	16:AG:193:GLU:OE2	1.68	0.94
10:BA:892:G:HO2'	10:BA:893:A:H8	0.99	0.94
10:AA:237:U:H3'	10:AA:238:G:H5''	1.50	0.94
8:B8:58:SER:HB3	8:B8:111:VAL:HG13	1.49	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:BA:673:A:H2'	10:BA:675:A:H62	1.32	0.94
27:AR:94:SER:HB3	27:AR:124:VAL:HG23	1.48	0.94
10:AA:1302:G:H21	31:AV:6:THR:HG21	1.31	0.94
8:B8:96:VAL:HG21	16:BG:97:LEU:HD11	1.48	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:166:VAL:O	14:AE:167:ARG:HD2	1.68	0.93
26:BQ:85:ILE:HD11	26:BQ:122:LEU:HD13	1.49	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:H8	10:BA:77:G:H5'	1.30	0.93
10:BA:210:A:H4'	10:BA:211:U:OP1	1.68	0.93
22:BM:125:LEU:O	22:BM:129:TRP:HD1	1.51	0.93
6:A6:9:ILE:HB	6:A6:12:GLU:HG2	1.48	0.93
10:AA:210:A:H4'	10:AA:211:U:OP1	1.67	0.93
22:AM:93:LYS:HA	22:AM:93:LYS:HE3	1.48	0.93
5:A5:21:VAL:HG11	5:A5:74:GLN:OE1	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:479:G:H5'	10:AA:480:A:OP2	1.68	0.93
9:B9:146:UNK:O	9:B9:150:UNK:HG3	1.68	0.93
10:AA:858:C:H3'	10:AA:859:A:H5''	1.51	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
4:B4:193:ASN:HB3	4:B4:199:TYR:CE1	2.03	0.93
4:A4:135:GLY:O	4:A4:227:PRO:HD2	1.68	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:886:U:H3'	10:BA:887:U:C5'	1.98	0.92
10:BA:1174:A:H2'	10:BA:1175:A:H5'	1.51	0.92
10:BA:667:C:H2'	10:BA:668:U:O4'	1.68	0.92
10:BA:1322:U:H5''	18:BI:70:ARG:NH1	1.83	0.92
10:AA:1359:C:OP2	31:AV:45:ARG:HG3	1.68	0.92
5:A5:30:VAL:CG1	5:A5:35:ALA:HB2	1.97	0.92
26:AQ:66:ARG:HG3	26:AQ:66:ARG:HH11	1.34	0.92
10:AA:1007:U:H3'	10:AA:1008:A:H5'	1.50	0.92
10:BA:478:G:H21	10:BA:494:A:H62	1.16	0.92
10:BA:237:U:H3'	10:BA:238:G:H5''	1.49	0.92
10:BA:1022:U:H3	10:BA:1046:G:H1	1.14	0.92
10:BA:422:G:H8	10:BA:422:G:H5'	1.32	0.92
10:AA:1608:C:H4'	10:AA:1609:C:C5'	1.99	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
31:BV:29:HIS:HA	31:BV:32:LYS:HD3	1.49	0.92
22:BM:1:MET:HG2	22:BM:2:SER:N	1.82	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:125:LEU:O	22:AM:129:TRP:HD1	1.53	0.92
29:BT:77:SER:HA	29:BT:80:LYS:HE3	1.49	0.92
5:A5:15:ARG:H	5:A5:15:ARG:HD3	1.33	0.92
5:B5:30:VAL:CG1	5:B5:35:ALA:HB2	1.99	0.92
27:BR:184:ALA:H	27:BR:206:ARG:HH22	1.17	0.92
4:B4:135:GLY:O	4:B4:227:PRO:HD2	1.69	0.92
10:BA:1480:U:O2'	10:BA:1481:A:H5'	1.69	0.92
3:B3:136:LEU:H	3:B3:136:LEU:HD23	1.32	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
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
26:AQ:27:THR:HG22	26:AQ:28:SER:H	1.34	0.92
26:AQ:63:LEU:HD11	26:AQ:127:CYS:HB2	1.50	0.92
10:BA:754:A:H2'	10:BA:755:G:C8	2.05	0.92
10:AA:673:A:H2'	10:AA:675:A:H62	1.32	0.92
10:BA:561:A:H1'	33:BX:14:VAL:HG23	1.48	0.92
10:BA:479:G:H5'	10:BA:480:A:OP2	1.69	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
14:BE:41:LYS:O	14:BE:42:ILE:HG12	1.69	0.92
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
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
10:BA:1748:U:O2'	10:BA:1750:A:C2	2.23	0.91
10:BA:83:C:C2'	10:BA:84:U:H5''	2.00	0.91
8:B8:57:PRO:HB3	8:B8:87:MET:CE	2.00	0.91
10:BA:564:A:N1	21:BL:115:ASP:HB2	1.84	0.91
13:AD:31:ILE:HA	13:AD:36:LEU:HD12	1.52	0.91
12:AC:77:GLN:HA	12:AC:81:GLY:HA2	1.51	0.91
12:BC:35:ALA:HB2	12:BC:60:GLN:CB	2.01	0.91
22:BM:1:MET:CG	22:BM:2:SER:H	1.81	0.91
10:BA:506:U:OP2	13:BD:169:GLU:HG3	1.70	0.91
10:BA:478:G:H2'	10:BA:479:G:H1'	1.51	0.91
11:BB:98:ARG:HH12	11:BB:101:PRO:HD2	1.34	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
29:AT:43:THR:OG1	29:AT:50:ALA:HA	1.70	0.91
10:AA:215:A:H62	10:AA:811:U:H3	1.14	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BX:7:THR:HG21	33:BX:10:LYS:HB2	1.51	0.91
10:AA:342:U:H4'	10:AA:343:C:OP2	1.71	0.91
14:AE:180:VAL:HG23	14:AE:198:TYR:HA	1.52	0.91
10:AA:761:U:N3	25:AP:7:THR:HG23	1.85	0.91
8:A8:32:LYS:HB2	15:BF:43:ASP:N	1.86	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
16:BG:46:HIS:O	18:BI:49:LYS:HE3	1.70	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
12:BC:77:GLN:HA	12:BC:81:GLY:HA2	1.50	0.91
16:BG:57:ARG:HA	16:BG:57:ARG:NH1	1.85	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
20:BK:95:ILE:HD12	20:BK:129:ILE:HG23	1.52	0.91
6:A6:6:LEU:HD21	17:AH:62:VAL:HG21	1.52	0.91
10:AA:1751:U:H4'	10:AA:1752:U:OP1	1.70	0.91
3:A3:103:LYS:HA	3:A3:113:ARG:NH1	1.86	0.91
16:BG:92:PHE:HD1	16:BG:103:PRO:HB2	1.36	0.91
10:AA:552:C:H4'	33:AX:66:LYS:HE2	1.53	0.91
3:B3:44:GLN:HE22	3:B3:46:LYS:HE3	1.35	0.91
10:AA:245:A:O2'	10:AA:246:U:H3'	1.71	0.91
10:AA:1556:G:H3'	18:AI:125:ARG:O	1.69	0.90
10:BA:1748:U:HO2'	10:BA:1750:A:H2	0.98	0.90
10:AA:311:U:H5'	10:AA:312:C:H5'	1.52	0.90
34:BY:165:PHE:HE1	34:BY:173:ARG:HB2	1.36	0.90
4:B4:108:ILE:HG22	4:B4:109:THR:H	1.34	0.90
10:AA:85:G:H5'	10:AA:85:G:H8	1.36	0.90
6:B6:34:LYS:HG2	6:B6:41:ILE:HG12	1.52	0.90
10:AA:145:G:H2	10:AA:157:G:N2	1.68	0.90
4:A4:193:ASN:HB3	4:A4:199:TYR:HE1	1.35	0.90
22:BM:6:GLU:HB2	22:BM:10:ASP:HB2	1.54	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
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
10:BA:1176:A:H5'	10:BA:1177:C:OP2	1.70	0.90
21:AL:9:ILE:N	21:AL:9:ILE:HD12	1.84	0.90
16:AG:57:ARG:NH1	16:AG:57:ARG:HA	1.86	0.90
13:BD:109:LEU:HB2	13:BD:146:PHE:HB3	1.54	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
2:A2:110:VAL:HG12	2:A2:111:GLU:H	1.35	0.90
10:AA:1081:G:H5'	10:AA:1081:G:H8	1.34	0.90
17:BH:97:ARG:HA	17:BH:97:ARG:HH11	1.36	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
11:AB:56:ALA:O	11:AB:60:ILE:HG13	1.72	0.90
32:BW:109:GLY:HA2	32:BW:191:ILE:HD11	1.52	0.90
3:A3:136:LEU:H	3:A3:136:LEU:HD23	1.33	0.90
13:AD:106:GLU:HA	13:AD:111:THR:HG21	1.53	0.90
10:AA:1263:G:H22	10:AA:1296:G:H1	1.16	0.90
5:B5:15:ARG:H	5:B5:15:ARG:HD3	1.35	0.90
10:BA:1608:C:H4'	10:BA:1609:C:C5'	2.00	0.90
10:AA:1174:A:H2'	10:AA:1175:A:H5'	1.51	0.90
27:AR:184:ALA:H	27:AR:206:ARG:HH22	1.20	0.90
17:BH:18:GLU:HG3	17:BH:69:ILE:HB	1.52	0.90
14:AE:61:ILE:HD12	14:AE:134:LYS:HB3	1.54	0.90
27:BR:285:THR:HG22	27:BR:286:GLN:H	1.37	0.90
10:BA:47:C:O2'	10:BA:48:C:H5'	1.71	0.90
1:B1:62:ARG:NH2	16:BG:200:ARG:HB2	1.87	0.90
11:AB:98:ARG:HH12	11:AB:101:PRO:HD2	1.36	0.90
10:AA:26:U:H2'	10:AA:27:A:H5''	1.53	0.90
10:BA:1608:C:C4	10:BA:1718:A:N1	2.40	0.89
2:B2:22:ARG:HH11	2:B2:25:ARG:HH12	1.13	0.89
4:A4:108:ILE:HG22	4:A4:109:THR:H	1.34	0.89
10:BA:1482:C:O2'	29:BT:127:LYS:HD2	1.71	0.89
14:BE:166:VAL:O	14:BE:167:ARG:HD2	1.72	0.89
20:AK:54:VAL:HG11	20:AK:81:VAL:HG13	1.50	0.89
14:AE:41:LYS:O	14:AE:42:ILE:HG12	1.71	0.89
21:AL:9:ILE:CD1	21:AL:9:ILE:H	1.76	0.89
10:BA:1745:G:H3'	10:BA:1746:G:H5''	1.53	0.89
10:AA:235:A:H4'	10:AA:236:U:O4'	1.73	0.89
10:BA:1301:A:O2'	10:BA:1302:G:H5'	1.72	0.89
10:AA:695:G:H1	10:AA:707:U:H3	1.13	0.89
2:B2:198:PHE:CE1	2:B2:202:LYS:HE2	2.08	0.89
4:A4:126:ALA:HB1	4:A4:175:ASN:ND2	1.88	0.89
10:BA:1007:U:H3'	10:BA:1008:A:H5'	1.52	0.89
5:A5:30:VAL:HG21	5:A5:76:CYS:HB2	1.54	0.89
14:BE:228:PRO:HB3	17:BH:68:ARG:HH21	1.36	0.89
20:AK:95:ILE:HD12	20:AK:129:ILE:HG23	1.54	0.89
12:BC:125:ILE:HD12	12:BC:125:ILE:H	1.37	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B2:110:VAL:HG12	2:B2:111:GLU:H	1.38	0.89
2:B2:42:SER:HA	2:B2:45:ILE:HG13	1.55	0.89
32:AW:109:GLY:HA2	32:AW:191:ILE:HD11	1.54	0.89
16:AG:123:ILE:HD12	16:AG:132:GLN:OE1	1.72	0.89
10:AA:667:C:H2'	10:AA:668:U:O4'	1.71	0.89
10:BA:795:A:H4'	10:BA:796:U:O5'	1.69	0.89
9:A9:156:UNK:O	9:A9:159:UNK:HG3	1.72	0.89
10:BA:342:U:H4'	10:BA:343:C:OP2	1.72	0.89
10:BA:1302:G:H21	31:BV:6:THR:HG21	1.37	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
21:BL:58:ILE:HG21	21:BL:117:PRO:HG3	1.54	0.89
10:BA:1732:U:C6	10:BA:1732:U:H5'	2.08	0.89
12:BC:15:VAL:HG11	23:BN:34:GLU:HB3	1.54	0.89
32:BW:102:ARG:HG2	32:BW:116:LEU:HD21	1.54	0.89
22:BM:119:ILE:HD11	28:BS:115:ASP:HB3	1.54	0.89
10:AA:422:G:H8	10:AA:422:G:H5'	1.36	0.89
10:BA:1081:G:H5'	10:BA:1081:G:H8	1.36	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
10:BA:135:A:H3'	34:BY:183:ILE:HD11	1.53	0.89
14:AE:231:TRP:HE1	17:AH:68:ARG:NH1	1.70	0.89
32:BW:89:MET:HA	32:BW:89:MET:HE3	1.53	0.89
27:BR:190:VAL:HG21	27:BR:219:LEU:HB3	1.53	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:A2:198:PHE:CE1	2:A2:202:LYS:HE2	2.08	0.89
4:A4:207:THR:CG2	4:A4:213:LEU:HG	2.02	0.89
10:AA:1244:U:H5'	10:AA:1245:G:OP2	1.72	0.89
2:A2:42:SER:HA	2:A2:45:ILE:HG13	1.54	0.89
10:AA:117:U:H1'	32:AW:33:GLN:O	1.72	0.89
27:BR:260:GLN:HG3	27:BR:314:SER:HA	1.54	0.89
10:AA:564:A:N1	21:AL:115:ASP:HB2	1.88	0.89
10:AA:47:C:O2'	10:AA:48:C:H5'	1.73	0.89
26:BQ:17:LEU:HA	26:BQ:20:LYS:HE2	1.55	0.89
3:B3:44:GLN:NE2	3:B3:46:LYS:HE3	1.88	0.89
10:AA:1022:U:H3	10:AA:1046:G:H1	1.17	0.89
16:AG:34:ALA:HB3	16:AG:63:ILE:HG13	1.55	0.88
21:BL:71:VAL:HG21	21:BL:95:LEU:HD13	1.53	0.88
10:BA:90:U:H2'	10:BA:91:G:O4'	1.73	0.88
16:AG:92:PHE:HD1	16:AG:103:PRO:HB2	1.38	0.88
2:B2:198:PHE:HE1	2:B2:202:LYS:HE2	1.37	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:190:VAL:HG21	27:AR:219:LEU:HB3	1.54	0.88
3:A3:44:GLN:HE22	3:A3:46:LYS:HE3	1.36	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
10:BA:1263:G:H22	10:BA:1296:G:H1	1.20	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
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
6:A6:34:LYS:HG2	6:A6:41:ILE:HG12	1.53	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
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:BA:604:G:N1	10:BA:1080:G:N2	2.22	0.88
10:BA:65:C:C6	34:BY:177:PRO:HB3	2.08	0.88
17:BH:74:VAL:HG12	17:BH:75:ILE:H	1.39	0.88
10:AA:145:G:H1	10:AA:157:G:H22	1.18	0.88
10:AA:1176:A:H5'	10:AA:1177:C:OP2	1.74	0.88
10:AA:478:G:H21	10:AA:494:A:H62	1.16	0.88
26:AQ:70:ILE:HG23	26:AQ:87:ARG:NH2	1.88	0.88
10:AA:90:U:H2'	10:AA:91:G:O4'	1.73	0.88
10:BA:85:G:H5'	10:BA:85:G:H8	1.39	0.88
1:B1:42:ILE:H	1:B1:63:GLU:HG3	1.38	0.88
26:AQ:17:LEU:HA	26:AQ:20:LYS:HE2	1.55	0.88
32:AW:89:MET:HA	32:AW:89:MET:HE2	1.52	0.88
10:BA:1430:C:H5''	22:BM:138:THR:HG21	1.54	0.88
3:B3:103:LYS:HA	3:B3:113:ARG:NH1	1.89	0.88
12:AC:125:ILE:H	12:AC:125:ILE:HD12	1.36	0.88
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: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
10:AA:1462:U:H5	10:AA:1464:U:C4	1.92	0.87
10:BA:633:U:H4'	10:BA:634:C:H5''	1.56	0.87
27:AR:282:ASN:OD1	27:AR:284:MET:HG2	1.74	0.87
10:AA:181:G:H3'	10:AA:182:U:H5'	1.56	0.87
10:AA:75:C:H1'	34:AY:178:LYS:HG2	1.55	0.87
10:BA:1244:U:H5'	10:BA:1245:G:OP2	1.73	0.87
10:AA:338:G:H5''	26:AQ:84:ILE:HD11	1.52	0.87
27:BR:138:ALA:HA	27:BR:164:TRP:HB3	1.54	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AH:76:SER:HB2	17:AH:77:PRO:HD3	1.57	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
10:BA:1516:U:O2'	22:BM:149:GLY:HA2	1.75	0.87
10:BA:1717:C:H6	10:BA:1717:C:H5'	1.39	0.87
4:B4:89:LEU:HB3	4:B4:101:THR:CG2	2.05	0.87
16:BG:92:PHE:CD1	16:BG:103:PRO:HB2	2.09	0.87
10:AA:1717:C:H6	10:AA:1717:C:H5'	1.39	0.87
10:BA:427:A:H5''	21:BL:49:LYS:HG3	1.57	0.87
13:AD:109:LEU:HB2	13:AD:146:PHE:HB3	1.55	0.87
3:A3:44:GLN:NE2	3:A3:46:LYS:HE3	1.89	0.87
10:AA:455:C:H6	10:AA:455:C:H5'	1.40	0.87
10:AA:1028:G:H8	10:AA:1028:G:H5'	1.39	0.87
21:AL:58:ILE:HG21	21:AL:117:PRO:HG3	1.57	0.87
10:BA:145:G:H22	10:BA:157:G:N2	1.71	0.87
3:B3:93:PHE:CZ	3:B3:166:LYS:HB3	2.10	0.87
10:BA:1465:C:H2'	10:BA:1466:C:H5''	1.56	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:71:VAL:HG21	21:AL:95:LEU:HD13	1.57	0.87
27:BR:131:ARG:HA	27:BR:147:ILE:HG23	1.57	0.87
18:BI:99:VAL:HG12	18:BI:100:ASP:H	1.38	0.87
18:BI:31:LEU:HD13	18:BI:38:ILE:HD11	1.57	0.87
10:AA:986:G:OP1	20:AK:149:ARG:NH2	2.08	0.87
10:AA:84:U:H2'	10:AA:85:G:C5'	2.03	0.87
34:AY:86:SER:O	34:AY:87:ARG:HB2	1.75	0.87
19:AJ:56:MET:HG3	19:AJ:57:PRO:HD2	1.56	0.87
23:AN:33:TYR:HD1	23:AN:33:TYR:O	1.56	0.87
25:BP:19:ARG:HE	25:BP:73:VAL:HG11	1.38	0.87
10:BA:235:A:H4'	10:BA:236:U:O4'	1.74	0.87
10:AA:676:C:H4'	10:AA:677:G:H5'	1.56	0.87
2:A2:194:LYS:HE2	26:AQ:4:GLN:CD	1.95	0.87
24:BO:129:ARG:O	24:BO:133:LEU:HG	1.74	0.87
26:BQ:66:ARG:HG3	26:BQ:66:ARG:HH11	1.37	0.87
7:A7:58:ILE:HD13	12:AC:31:SER:HB3	1.54	0.87
10:BA:1072:G:H1'	17:BH:76:SER:OG	1.74	0.86
22:AM:17:ILE:O	22:AM:21:ASN:HB2	1.75	0.86
10:AA:766:G:O2'	10:AA:767:C:H5'	1.73	0.86
7:B7:101:SER:HB2	12:BC:90:TRP:HE3	1.35	0.86
4:A4:130:CYS:HB2	4:A4:138:ILE:HD12	1.57	0.86
10:BA:1158:U:O4	10:BA:1172:G:N2	2.08	0.86
2:A2:22:ARG:HH11	2:A2:25:ARG:NH1	1.73	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
10:BA:1028:G:H5'	10:BA:1028:G:H8	1.39	0.86
12:AC:119:ARG:HD2	14:AE:123:GLN:NE2	1.90	0.86
4:B4:130:CYS:HB2	4:B4:138:ILE:HD12	1.56	0.86
34:BY:70:ARG:HH21	34:BY:104:PRO:HD3	1.39	0.86
26:BQ:122:LEU:HD23	26:BQ:123:VAL:N	1.90	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
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
10:BA:1325:G:H1	10:BA:1341:U:H3	1.22	0.86
23:BN:33:TYR:O	23:BN:33:TYR:HD1	1.59	0.86
32:AW:161:THR:HG21	32:AW:229:VAL:O	1.76	0.86
18:AI:99:VAL:HG12	18:AI:100:ASP:H	1.38	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
2:B2:77:SER:O	26:BQ:23:LEU:HD11	1.76	0.86
25:BP:140:SER:HA	25:BP:143:LEU:HD12	1.57	0.86
10:AA:1370:U:C2'	10:AA:1371:A:H5'	2.05	0.86
2:A2:195:GLU:HB3	26:AQ:10:GLN:NE2	1.89	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
22:AM:27:ILE:HG22	22:AM:29:PRO:HD2	1.57	0.86
10:BA:84:U:H2'	10:BA:85:G:C5'	2.05	0.86
6:B6:52:ILE:CD1	6:B6:62:CYS:HB2	2.06	0.86
10:BA:90:U:OP1	32:BW:3:ARG:HD2	1.75	0.86
26:BQ:22:LEU:HD23	26:BQ:27:THR:HA	1.56	0.86
10:AA:1278:C:H42	10:AA:1290:G:H1	1.23	0.86
4:A4:165:SER:HA	4:A4:168:ARG:HE	1.40	0.86
18:AI:18:ALA:HA	18:AI:73:GLY:HA3	1.57	0.86
10:AA:1324:U:O2'	18:AI:4:GLN:HG2	1.76	0.86
2:A2:77:SER:O	26:AQ:23:LEU:HD11	1.76	0.86
32:BW:161:THR:HG21	32:BW:229:VAL:O	1.74	0.86
10:BA:604:G:H1	10:BA:1080:G:H22	1.20	0.85
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B9:126:ALA:HA	10:BA:1224:C:H5'	1.55	0.85
25:BP:107:GLU:O	25:BP:110:ARG:HB2	1.76	0.85
17:AH:18:GLU:HG3	17:AH:69:ILE:HB	1.56	0.85
14:BE:57:GLU:HB2	14:BE:60:ILE:HG13	1.56	0.85
9:B9:150:UNK:HA	9:B9:153:UNK:HG3	1.56	0.85
21:AL:69:LYS:HB3	21:AL:69:LYS:HZ2	1.39	0.85
2:A2:198:PHE:HE1	2:A2:202:LYS:HE2	1.40	0.85
17:AH:97:ARG:HA	17:AH:97:ARG:HH11	1.39	0.85
10:AA:868:U:H2'	10:AA:869:A:H5''	1.58	0.85
22:BM:68:LYS:O	22:BM:72:LEU:HB2	1.76	0.85
10:BA:1172:G:H4'	10:BA:1173:G:H5''	1.59	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
26:BQ:68:LYS:HD2	26:BQ:126:GLN:HG2	1.58	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
10:BA:1745:G:H4'	10:BA:1746:G:OP1	1.75	0.85
10:BA:1580:U:O3'	18:BI:75:GLY:HA3	1.75	0.85
10:BA:676:C:H4'	10:BA:677:G:H5'	1.56	0.85
10:AA:1325:G:H1	10:AA:1341:U:H3	1.22	0.85
27:AR:285:THR:HG22	27:AR:286:GLN:H	1.41	0.85
10:BA:718:A:H2'	10:BA:719:G:H5'	1.59	0.85
10:AA:681:G:N2	10:AA:719:G:H22	1.74	0.85
34:AY:165:PHE:HE1	34:AY:173:ARG:HB2	1.40	0.85
27:AR:131:ARG:HA	27:AR:147:ILE:HG23	1.57	0.85
14:BE:69:LYS:HG2	14:BE:76:LYS:HZ3	1.38	0.85
12:AC:35:ALA:HB2	12:AC:60:GLN:CB	2.05	0.85
2:B2:202:LYS:O	2:B2:206:LYS:HB2	1.75	0.85
25:BP:23:LEU:HD11	25:BP:71:ALA:HB2	1.57	0.85
10:BA:393:C:O2	10:BA:393:C:H2'	1.76	0.85
20:AK:28:PHE:O	20:AK:47:LEU:HD21	1.76	0.85
1:A1:42:ILE:H	1:A1:63:GLU:HG3	1.40	0.85
34:AY:22:LYS:HA	34:AY:25:ASN:ND2	1.92	0.85
4:A4:111:ASP:O	4:A4:115:SER:HB2	1.77	0.85
10:AA:1172:G:H4'	10:AA:1173:G:H5''	1.57	0.85
10:BA:66:A:H2'	10:BA:67:G:H5'	1.57	0.85
27:AR:260:GLN:HG3	27:AR:314:SER:HA	1.58	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:BA:666:A:O2'	10:BA:667:C:H5'	1.77	0.85
10:AA:1158:U:O4	10:AA:1172:G:N2	2.10	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1462:U:H5	10:BA:1464:U:C4	1.93	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
23:AN:39:ARG:HG3	23:AN:40:ARG:H	1.42	0.84
14:AE:57:GLU:HB2	14:AE:60:ILE:HG13	1.58	0.84
6:A6:65:THR:HG22	6:A6:66:GLY:H	1.42	0.84
27:AR:15:GLY:HA3	27:AR:65:PHE:HB2	1.57	0.84
10:AA:1720:G:O2'	10:AA:1721:G:OP2	1.93	0.84
9:A9:159:UNK:HA	9:A9:162:UNK:CG	2.07	0.84
4:A4:89:LEU:HB3	4:A4:101:THR:CG2	2.07	0.84
14:BE:35:ARG:HH22	14:BE:252:ALA:N	1.75	0.84
25:AP:140:SER:HA	25:AP:143:LEU:HD12	1.56	0.84
10:AA:1580:U:O3'	18:AI:75:GLY:HA3	1.76	0.84
27:BR:282:ASN:OD1	27:BR:284:MET:HG2	1.75	0.84
10:AA:1466:C:H6	10:AA:1466:C:H5'	1.42	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
4:A4:207:THR:HG21	4:A4:213:LEU:CG	2.07	0.84
22:BM:82:PRO:HD3	29:BT:40:TRP:CZ2	2.12	0.84
10:BA:760:G:N2	10:BA:766:G:H22	1.74	0.84
4:B4:165:SER:HA	4:B4:168:ARG:HE	1.43	0.84
4:B4:108:ILE:CD1	4:B4:219:ARG:HA	2.07	0.84
27:BR:15:GLY:HA3	27:BR:65:PHE:HB2	1.58	0.84
18:BI:22:ALA:HB2	18:BI:86:ALA:HB1	1.58	0.84
14:BE:61:ILE:HD12	14:BE:134:LYS:HB3	1.58	0.84
13:AD:133:HIS:HA	13:AD:161:THR:HG21	1.59	0.84
10:BA:1263:G:N2	10:BA:1296:G:H22	1.76	0.84
10:AA:1212:U:C3'	10:AA:1213:G:H5''	2.08	0.84
6:B6:44:ILE:HD13	6:B6:52:ILE:HD12	1.59	0.84
3:A3:66:HIS:HE1	10:AA:834:A:H5'	1.40	0.84
2:A2:202:LYS:O	2:A2:206:LYS:HB2	1.78	0.84
10:BA:1340:G:H2'	10:BA:1341:U:H5''	1.58	0.84
10:AA:1171:G:H1'	19:AJ:66:ARG:NH1	1.93	0.84
10:AA:26:U:C2'	10:AA:27:A:H5''	2.07	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:AA:1322:U:H5''	18:AI:70:ARG:NH1	1.91	0.84
10:AA:1732:U:C6	10:AA:1732:U:H5'	2.11	0.84
10:AA:309:U:C2'	10:AA:310:C:H5''	2.07	0.84
10:AA:955:A:O2'	10:AA:956:A:H5'	1.77	0.84
30:BU:70:TYR:HE2	30:BU:126:ALA:HB3	1.42	0.84
10:BA:26:U:C2'	10:BA:27:A:H5''	2.08	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:BD:133:HIS:HA	13:BD:161:THR:HG21	1.60	0.84
18:BI:18:ALA:HA	18:BI:73:GLY:HA3	1.59	0.84
18:AI:44:GLN:HA	18:AI:47:GLN:NE2	1.92	0.84
18:BI:20:ALA:HA	18:BI:71:VAL:HG22	1.60	0.84
8:B8:45:ILE:HD11	8:B8:79:LEU:HD21	1.60	0.84
17:AH:74:VAL:HG12	17:AH:75:ILE:H	1.43	0.84
11:AB:99:TRP:CZ3	11:AB:103:THR:HB	2.13	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:BA:881:U:O2	10:BA:883:A:H5''	1.78	0.84
10:AA:90:U:OP1	32:AW:3:ARG:HD2	1.77	0.84
13:BD:46:GLN:HG2	13:BD:101:ILE:HD13	1.58	0.84
22:AM:119:ILE:HD11	28:AS:115:ASP:HB3	1.60	0.84
12:BC:165:GLN:N	12:BC:166:PRO:HD2	1.93	0.84
13:AD:53:ARG:HH12	14:AE:176:GLY:HA3	1.36	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
3:A3:93:PHE:HZ	3:A3:166:LYS:HB3	1.42	0.83
26:BQ:70:ILE:HG23	26:BQ:87:ARG:CZ	2.07	0.83
15:BF:22:ARG:HB2	15:BF:34:THR:HB	1.58	0.83
12:AC:205:VAL:HG12	12:AC:206:LYS:N	1.93	0.83
11:AB:47:GLU:HB2	31:AV:109:LEU:HD11	1.58	0.83
25:AP:98:LYS:N	25:AP:98:LYS:HD3	1.91	0.83
14:BE:116:TRP:H	14:BE:132:HIS:HD2	1.26	0.83
10:AA:534:A:H3'	10:AA:535:A:C5'	2.05	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
9:A9:155:UNK:C	9:A9:158:UNK:HG3	2.07	0.83
3:A3:103:LYS:HG2	3:A3:113:ARG:HH12	1.44	0.83
26:BQ:21:LYS:HE3	26:BQ:31:VAL:HG21	1.60	0.83
16:AG:92:PHE:CD1	16:AG:103:PRO:HB2	2.13	0.83
12:BC:205:VAL:HG12	12:BC:206:LYS:N	1.93	0.83
15:BF:73:LEU:HD23	15:BF:73:LEU:H	1.42	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
4:A4:140:VAL:HG12	4:A4:221:VAL:HG22	1.58	0.83
27:AR:138:ALA:HA	27:AR:164:TRP:HB3	1.59	0.83
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
20:AK:62:VAL:HG12	20:AK:63:LYS:H	1.43	0.83
14:AE:36:LEU:CD1	14:AE:248:LEU:HD21	2.09	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:75:C:C1'	34:AY:178:LYS:HG2	2.08	0.83
10:AA:1009:U:H4'	10:AA:1010:A:OP2	1.78	0.83
10:AA:561:A:H1'	33:AX:14:VAL:CG2	2.08	0.83
10:BA:336:U:O2'	10:BA:337:G:C8	2.30	0.83
34:BY:31:LYS:O	34:BY:34:GLN:HG2	1.78	0.83
11:BB:14:LEU:HD11	31:BV:102:THR:HG21	1.60	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:1370:U:C2'	10:BA:1371:A:H5'	2.07	0.83
31:BV:5:ARG:HB2	31:BV:10:LYS:HE2	1.60	0.83
10:AA:506:U:OP2	13:AD:169:GLU:HG3	1.78	0.83
3:B3:129:ASP:O	3:B3:132:LEU:HB2	1.79	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
1:A1:36:GLU:O	1:A1:37:GLU:HB2	1.76	0.83
19:BJ:56:MET:HG3	19:BJ:57:PRO:HD2	1.61	0.83
22:AM:81:ILE:HA	29:AT:40:TRP:CH2	2.13	0.83
16:AG:197:LYS:HD3	16:AG:200:ARG:NH2	1.92	0.83
26:AQ:122:LEU:HD23	26:AQ:123:VAL:N	1.94	0.83
10:BA:681:G:N2	10:BA:719:G:H22	1.75	0.83
10:AA:572:U:H4'	10:AA:573:A:C5'	2.08	0.83
4:B4:111:ASP:O	4:B4:115:SER:HB2	1.78	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
34:BY:184:THR:HB	34:BY:185:PRO:HD2	1.60	0.83
22:BM:27:ILE:HG22	22:BM:29:PRO:HD2	1.60	0.83
3:B3:130:LEU:HD12	3:B3:170:ILE:HG23	1.60	0.83
10:BA:478:G:H21	10:BA:494:A:N6	1.76	0.83
10:BA:77:G:H5'	10:BA:77:G:C8	2.13	0.83
2:B2:22:ARG:HH11	2:B2:25:ARG:NH1	1.76	0.83
20:BK:62:VAL:HG12	20:BK:63:LYS:H	1.44	0.83
25:BP:98:LYS:N	25:BP:98:LYS:HD3	1.94	0.83
10:BA:552:C:H4'	33:BX:66:LYS:HE2	1.59	0.83
3:A3:60:ALA:HB1	3:A3:91:ILE:HB	1.59	0.83
32:BW:116:LEU:HD12	32:BW:120:GLU:HB2	1.59	0.83
24:AO:129:ARG:O	24:AO:133:LEU:HG	1.77	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
4:B4:67:VAL:HG21	10:BA:898:U:H4'	1.59	0.83
10:AA:1440:A:H4'	10:AA:1513:G:H4'	1.58	0.83
10:BA:1212:U:C3'	10:BA:1213:G:H5''	2.09	0.83
10:AA:666:A:O2'	10:AA:667:C:H5'	1.78	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
10:BA:572:U:H4'	10:BA:573:A:C5'	2.09	0.83
10:AA:648:U:H5'	10:AA:649:U:OP2	1.78	0.83
4:B4:207:THR:HG21	4:B4:213:LEU:CG	2.06	0.82
10:AA:145:G:H22	10:AA:157:G:H21	0.86	0.82
4:A4:108:ILE:CD1	4:A4:219:ARG:HA	2.09	0.82
32:AW:11:ARG:NH1	32:AW:20:LEU:HD22	1.93	0.82
4:B4:140:VAL:HG12	4:B4:221:VAL:HG22	1.59	0.82
28:BS:101:VAL:HG21	28:BS:121:LEU:HD11	1.60	0.82
34:AY:184:THR:HB	34:AY:185:PRO:HD2	1.59	0.82
10:BA:986:G:OP1	20:BK:149:ARG:NH2	2.11	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
18:BI:14:ARG:HD2	18:BI:125:ARG:HH22	1.43	0.82
10:BA:1440:A:H4'	10:BA:1513:G:H4'	1.61	0.82
23:BN:39:ARG:HG3	23:BN:40:ARG:N	1.95	0.82
10:AA:834:A:OP1	10:AA:834:A:H3'	1.79	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
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
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
18:AI:20:ALA:HA	18:AI:71:VAL:HG22	1.59	0.82
10:AA:1580:U:H5''	18:AI:74:SER:HB2	1.61	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
10:BA:309:U:C2'	10:BA:310:C:H5''	2.08	0.82
10:AA:718:A:H2'	10:AA:719:G:H5'	1.59	0.82
3:B3:108:HIS:HB2	3:B3:111:GLN:HB2	1.62	0.82
27:BR:235:LYS:NZ	27:BR:256:SER:H	1.78	0.82
10:BA:1153:U:N3	10:BA:1157:U:H5	1.77	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: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
10:AA:1465:C:H2'	10:AA:1466:C:H5''	1.60	0.82
10:BA:733:G:H1	10:BA:782:A:N6	1.77	0.82
34:BY:216:LEU:HD22	34:BY:220:LYS:HE3	1.58	0.82
12:AC:165:GLN:N	12:AC:166:PRO:HD2	1.94	0.82
3:A3:34:LYS:O	3:A3:38:GLU:HG2	1.79	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:AY:216:LEU:HD22	34:AY:220:LYS:HE3	1.60	0.82
6:B6:18:LYS:NZ	10:BA:936:U:H5"	1.94	0.82
15:BF:44:TYR:H	15:BF:44:TYR:HD1	1.27	0.82
10:AA:798:G:O2'	10:AA:799:G:H5'	1.79	0.82
10:AA:478:G:H21	10:AA:494:A:N6	1.76	0.82
10:BA:312:C:H4'	10:BA:313:G:O5'	1.79	0.82
26:AQ:68:LYS:HD2	26:AQ:126:GLN:HG2	1.61	0.82
14:AE:35:ARG:HH22	14:AE:252:ALA:N	1.77	0.82
2:B2:29:LYS:NZ	10:BA:391:A:N6	2.26	0.82
3:A3:85:GLU:HG2	3:A3:92:VAL:HG23	1.59	0.82
10:AA:442:U:H5"	32:AW:7:LYS:HE2	1.61	0.82
2:A2:52:ARG:HD2	10:AA:1647:U:OP1	1.80	0.82
7:A7:101:SER:HB2	12:AC:90:TRP:HE3	1.42	0.82
34:AY:180:GLN:O	34:AY:181:ARG:HB2	1.78	0.82
10:BA:1751:U:H4'	10:BA:1752:U:OP1	1.76	0.82
9:A9:153:UNK:O	9:A9:156:UNK:HG3	1.79	0.82
16:BG:37:THR:HG22	16:BG:39:LYS:N	1.94	0.82
34:AY:132:LYS:HZ1	34:AY:163:ARG:HB3	1.42	0.82
10:AA:1293:A:H4'	10:AA:1294:A:O5'	1.79	0.82
10:BA:1359:C:H2'	10:BA:1360:U:H4'	1.61	0.82
25:AP:19:ARG:HE	25:AP:73:VAL:HG11	1.44	0.82
10:AA:427:A:H5"	21:AL:49:LYS:HG3	1.62	0.82
10:BA:1327:U:H3	10:BA:1339:G:H1	1.28	0.82
10:BA:141:A:N6	10:BA:142:A:C6	2.48	0.82
9:B9:159:UNK:HA	9:B9:162:UNK:CG	2.08	0.82
8:B8:73:LEU:HB2	8:B8:75:VAL:HG23	1.62	0.82
22:BM:17:ILE:O	22:BM:21:ASN:HB2	1.78	0.82
16:BG:197:LYS:HD3	16:BG:200:ARG:NH2	1.94	0.82
10:BA:868:U:H2'	10:BA:869:A:H5"	1.61	0.82
10:BA:469:A:H2'	10:BA:470:G:H8	1.40	0.82
8:A8:57:PRO:HG3	8:A8:92:LEU:HD11	1.62	0.82
10:AA:796:U:H2'	10:AA:797:A:C5'	2.10	0.82
34:BY:76:LEU:HD21	34:BY:94:ARG:HD2	1.62	0.82
10:AA:730:A:H4'	17:AH:80:ASP:OD2	1.79	0.82
14:BE:207:THR:HG22	14:BE:210:ASN:HB2	1.61	0.82
10:AA:665:A:H2'	10:AA:666:A:C8	2.15	0.82
8:B8:65:THR:HG21	16:BG:166:GLU:OE2	1.80	0.82
10:BA:1153:U:H3	10:BA:1157:U:H5	1.28	0.82
10:BA:570:G:H4'	10:BA:574:A:N3	1.95	0.82
6:B6:65:THR:HG22	6:B6:66:GLY:H	1.42	0.82
13:AD:120:ASN:H	13:AD:124:HIS:CD2	1.98	0.82
10:AA:97:U:H2'	10:AA:98:U:H5'	1.61	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:145:TRP:HZ3	14:AE:174:PRO:HG3	1.44	0.81
25:BP:19:ARG:HG3	25:BP:73:VAL:HB	1.60	0.81
10:BA:1613:C:O4'	10:BA:1715:A:H2	1.60	0.81
31:AV:5:ARG:HB2	31:AV:10:LYS:HE2	1.61	0.81
6:B6:18:LYS:HZ2	10:BA:936:U:H5''	1.45	0.81
10:BA:1359:C:OP2	31:BV:45:ARG:HG3	1.80	0.81
10:BA:1489:U:H3'	10:BA:1490:C:H5'	1.62	0.81
10:AA:607:G:OP2	10:AA:1071:U:H2'	1.81	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
10:BA:1556:G:O2'	10:BA:1557:U:OP2	1.98	0.81
9:B9:153:UNK:O	9:B9:156:UNK:HG3	1.79	0.81
10:AA:754:A:H5''	13:AD:7:ASN:HB2	1.61	0.81
17:BH:59:LYS:H	17:BH:59:LYS:CD	1.93	0.81
3:B3:60:ALA:HB2	3:B3:91:ILE:HB	1.62	0.81
3:B3:34:LYS:O	3:B3:38:GLU:HG2	1.80	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
27:AR:48:ASP:O	27:AR:49:LYS:HB3	1.81	0.81
4:A4:29:LYS:HB3	4:A4:49:LEU:HD11	1.62	0.81
32:BW:70:GLN:HG3	32:BW:80:ARG:HH21	1.45	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
10:AA:110:A:O2'	10:AA:111:G:OP1	1.96	0.81
25:AP:23:LEU:HD11	25:AP:71:ALA:HB2	1.63	0.81
14:AE:207:THR:HG22	14:AE:210:ASN:HB2	1.61	0.81
10:AA:460:A:H4'	10:AA:460:A:OP2	1.81	0.81
8:A8:45:ILE:HD11	8:A8:79:LEU:HD21	1.61	0.81
13:AD:38:ASN:HB2	13:AD:40:ARG:HG2	1.61	0.81
10:AA:1613:C:C1'	10:AA:1715:A:C2	2.63	0.81
10:BA:650:C:H2'	10:BA:651:G:C8	2.15	0.81
25:AP:16:LEU:HA	25:AP:83:TYR:HE2	1.45	0.81
14:AE:69:LYS:HG2	14:AE:76:LYS:HZ3	1.45	0.81
14:AE:233:LYS:HG3	14:AE:234:PRO:HD2	1.62	0.81
10:AA:650:C:H2'	10:AA:651:G:C8	2.15	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
5:B5:30:VAL:HG21	5:B5:76:CYS:HB2	1.60	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:77:G:C8	10:AA:77:G:H5'	2.14	0.81
10:AA:869:A:H8	10:AA:869:A:H5'	1.46	0.81
34:BY:86:SER:O	34:BY:87:ARG:HB2	1.78	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
10:BA:846:G:H1	10:BA:938:U:H3	1.28	0.81
18:BI:129:LYS:HG2	18:BI:130:LYS:N	1.96	0.81
27:AR:92:ILE:HG12	27:AR:102:LEU:CD2	2.10	0.81
27:BR:92:ILE:HG12	27:BR:102:LEU:CD2	2.11	0.81
16:AG:13:LEU:HD23	16:AG:104:LEU:HD21	1.61	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
34:BY:153:PRO:HG2	34:BY:154:ILE:H	1.46	0.81
18:AI:22:ALA:HB2	18:AI:86:ALA:HB1	1.62	0.81
10:BA:1392:A:H4'	12:BC:163:THR:OG1	1.79	0.81
22:AM:146:VAL:HG12	22:AM:147:VAL:HG23	1.63	0.81
10:AA:1359:C:H2'	10:AA:1360:U:H4'	1.61	0.81
10:AA:929:A:O2'	10:AA:930:A:H5'	1.81	0.81
30:AU:46:VAL:HG11	30:AU:56:VAL:HG13	1.62	0.81
3:B3:103:LYS:HG2	3:B3:113:ARG:HH12	1.46	0.81
2:B2:195:GLU:HB3	26:BQ:10:GLN:NE2	1.94	0.81
10:BA:327:G:H2'	10:BA:328:G:C5'	2.11	0.81
17:BH:87:GLU:CD	17:BH:87:GLU:H	1.83	0.81
10:BA:1009:U:H4'	10:BA:1010:A:OP2	1.79	0.81
10:BA:798:G:O2'	10:BA:799:G:H5'	1.81	0.81
30:BU:46:VAL:HG11	30:BU:56:VAL:HG13	1.62	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:OP1	1.96	0.81
21:BL:3:VAL:HG12	21:BL:4:GLY:H	1.45	0.81
14:AE:116:TRP:H	14:AE:132:HIS:HD2	1.27	0.81
10:BA:758:A:H2'	10:BA:759:G:H8	1.45	0.81
8:B8:57:PRO:HG3	8:B8:92:LEU:HD11	1.63	0.81
16:AG:121:THR:HG22	16:AG:123:ILE:HG13	1.62	0.81
32:BW:51:ARG:HA	32:BW:51:ARG:HE	1.46	0.81
10:BA:97:U:H2'	10:BA:98:U:H5'	1.62	0.81
6:B6:42:GLN:HE22	6:B6:55:GLU:H	1.28	0.81
10:BA:455:C:H6	10:BA:455:C:H5'	1.43	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
11:BB:1:MET:HB3	11:BB:7:GLN:NE2	1.95	0.81
34:AY:153:PRO:HG2	34:AY:154:ILE:H	1.46	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:533:G:O2'	10:BA:534:A:H5''	1.81	0.80
10:AA:143:C:OP1	25:AP:118:LYS:HG2	1.79	0.80
10:BA:1541:A:H1'	22:BM:147:VAL:HG21	1.62	0.80
1:B1:62:ARG:HH22	16:BG:200:ARG:HB2	1.45	0.80
10:AA:1731:G:H2'	10:AA:1732:U:H5''	1.63	0.80
3:A3:95:THR:HG22	3:A3:96:ALA:N	1.96	0.80
10:AA:391:A:C4'	10:AA:392:A:H5'	2.11	0.80
24:AO:36:VAL:O	24:AO:40:VAL:HG23	1.80	0.80
35:AZ:57:ASN:HB2	35:AZ:59:GLN:CD	2.02	0.80
10:AA:1016:U:O2'	17:AH:20:MET:HG3	1.82	0.80
10:AA:290:A:O2'	10:AA:291:A:H5'	1.81	0.80
14:AE:145:TRP:CZ3	14:AE:174:PRO:HG3	2.17	0.80
10:AA:1327:U:H3	10:AA:1339:G:H1	1.30	0.80
27:BR:235:LYS:HE2	27:BR:256:SER:HA	1.63	0.80
10:BA:444:A:O2'	10:BA:445:U:H5'	1.81	0.80
3:B3:60:ALA:HB1	3:B3:91:ILE:HB	1.61	0.80
10:AA:955:A:H2'	10:AA:956:A:H5'	1.64	0.80
12:AC:226:GLU:HG2	27:AR:208:THR:HG23	1.62	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
10:AA:1392:A:H4'	12:AC:163:THR:OG1	1.82	0.80
10:AA:765:A:O2'	25:AP:12:VAL:HG21	1.81	0.80
6:B6:52:ILE:HD11	6:B6:62:CYS:HB2	1.63	0.80
7:B7:61:TRP:CD2	23:BN:22:VAL:HG13	2.17	0.80
14:AE:231:TRP:CH2	17:AH:66:ILE:HG21	2.15	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
22:AM:22:ILE:HD11	10:BA:1700:A:H2	1.44	0.80
35:BZ:57:ASN:HB2	35:BZ:59:GLN:CD	2.01	0.80
10:BA:630:A:H2'	10:BA:631:C:H5''	1.63	0.80
13:BD:40:ARG:HG3	13:BD:41:GLU:N	1.96	0.80
30:BU:69:LYS:HB3	30:BU:124:LEU:HD13	1.64	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
27:AR:224:ASN:HB3	27:AR:226:LYS:HG3	1.63	0.80
11:BB:47:GLU:HB2	31:BV:109:LEU:HD11	1.62	0.80
4:A4:35:ARG:HE	4:A4:44:SER:HB3	1.46	0.80
24:BO:36:VAL:O	24:BO:40:VAL:HG23	1.82	0.80
22:BM:132:LYS:HZ2	22:BM:135:GLY:HA3	1.44	0.80
18:AI:59:GLN:HA	18:AI:62:PHE:HD2	1.47	0.80
14:BE:141:ARG:HB3	14:BE:222:THR:HG22	1.63	0.80
8:B8:60:VAL:HB	8:B8:64:LEU:HD21	1.61	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:955:A:H2'	10:BA:956:A:H5'	1.62	0.80
10:AA:336:U:O2'	10:AA:337:G:C8	2.32	0.80
3:A3:93:PHE:CZ	3:A3:166:LYS:HB3	2.16	0.80
14:BE:233:LYS:HG3	14:BE:234:PRO:HD2	1.63	0.80
21:AL:62:GLN:HB3	21:AL:63:PRO:HD3	1.62	0.80
10:BA:249:A:H4'	32:BW:134:GLY:O	1.79	0.80
34:AY:76:LEU:HD21	34:AY:94:ARG:HD2	1.61	0.80
14:BE:141:ARG:O	14:BE:222:THR:HG21	1.81	0.80
22:AM:1:MET:CG	22:AM:2:SER:H	1.84	0.80
5:A5:38:ARG:HH22	5:A5:86:VAL:HG23	1.44	0.80
10:AA:1745:G:C3'	10:AA:1746:G:H5''	2.10	0.80
31:AV:25:THR:HG22	31:AV:26:ASN:H	1.46	0.80
10:AA:125:U:H4'	10:AA:126:A:C5'	2.12	0.80
9:A9:159:UNK:CA	9:A9:162:UNK:HG3	2.12	0.80
14:BE:231:TRP:HE1	17:BH:68:ARG:NH1	1.79	0.80
10:BA:955:A:O2'	10:BA:956:A:H5'	1.81	0.80
27:BR:92:ILE:HA	27:BR:101:ARG:O	1.82	0.80
3:A3:65:VAL:HG21	3:A3:73:LEU:HD22	1.62	0.80
34:AY:31:LYS:O	34:AY:34:GLN:HG2	1.81	0.80
25:BP:85:PRO:HA	32:BW:59:ARG:HH12	1.45	0.80
32:BW:11:ARG:NH1	32:BW:20:LEU:HD22	1.96	0.80
27:AR:235:LYS:HE2	27:AR:256:SER:HA	1.62	0.80
33:BX:50:LEU:HD23	33:BX:57:ARG:HH12	1.47	0.80
10:BA:534:A:H3'	10:BA:535:A:C5'	2.07	0.80
10:BA:1745:G:C3'	10:BA:1746:G:H5''	2.11	0.80
10:BA:1171:G:N1	23:BN:29:LEU:HD22	1.97	0.80
16:BG:95:ILE:CG2	16:BG:103:PRO:HB3	2.11	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
10:BA:16:G:H2'	10:BA:17:C:C6	2.16	0.80
18:AI:14:ARG:HD2	18:AI:125:ARG:HH22	1.44	0.80
10:AA:681:G:N2	10:AA:719:G:N2	2.30	0.80
16:BG:121:THR:HG22	16:BG:123:ILE:HG13	1.63	0.80
10:AA:1661:G:N3	10:AA:1661:G:H3'	1.95	0.80
12:AC:40:ILE:HG22	12:AC:42:VAL:HG23	1.64	0.80
26:AQ:146:ILE:HD13	26:AQ:153:GLN:HG2	1.64	0.80
10:AA:1489:U:H3'	10:AA:1490:C:H5'	1.62	0.80
11:AB:156:VAL:HG23	35:AZ:80:HIS:HB2	1.62	0.80
6:A6:44:ILE:HD13	6:A6:52:ILE:HD12	1.62	0.80
27:BR:184:ALA:H	27:BR:206:ARG:NH2	1.80	0.80
27:BR:49:LYS:HE2	27:BR:74:GLY:H	1.47	0.80
12:BC:227:ILE:HD13	27:BR:246:THR:HG23	1.62	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:868:U:H2'	10:AA:869:A:C5'	2.11	0.80
10:BA:869:A:H5'	10:BA:869:A:H8	1.47	0.80
30:BU:89:ASN:ND2	30:BU:90:ALA:H	1.80	0.80
3:B3:85:GLU:HG2	3:B3:92:VAL:HG23	1.61	0.80
10:AA:1299:C:O2'	10:AA:1300:G:H5'	1.82	0.80
10:BA:1613:C:C1'	10:BA:1715:A:C2	2.65	0.80
13:AD:40:ARG:HG3	13:AD:41:GLU:N	1.96	0.80
4:B4:35:ARG:HE	4:B4:44:SER:HB3	1.45	0.80
10:BA:834:A:OP1	10:BA:834:A:H3'	1.81	0.80
11:AB:45:ASN:HD21	31:AV:109:LEU:HD13	1.46	0.80
10:AA:650:C:H2'	10:AA:651:G:H8	1.47	0.80
10:BA:558:G:O2'	10:BA:571:G:H4'	1.81	0.80
21:BL:40:ASN:HB2	21:BL:41:PRO:HD2	1.62	0.80
10:BA:512:C:H2'	10:BA:513:A:H5''	1.64	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
31:BV:25:THR:HG22	31:BV:26:ASN:H	1.46	0.79
17:BH:59:LYS:HD3	17:BH:59:LYS:N	1.96	0.79
10:AA:1245:G:C4'	10:AA:1246:C:H5''	2.12	0.79
14:BE:231:TRP:CH2	17:BH:66:ILE:HG21	2.17	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
10:BA:378:A:O2'	10:BA:379:A:OP2	1.99	0.79
13:BD:120:ASN:H	13:BD:124:HIS:CD2	2.00	0.79
10:BA:224:G:H2'	10:BA:225:C:H5'	1.64	0.79
10:BA:1299:C:O2'	10:BA:1300:G:H5'	1.81	0.79
10:BA:1720:G:O2'	10:BA:1721:G:OP2	1.99	0.79
3:A3:132:LEU:HB3	3:A3:133:PRO:CD	2.12	0.79
10:AA:626:U:OP1	26:AQ:101:LYS:HE3	1.81	0.79
10:AA:494:A:H3'	10:AA:495:C:C5'	2.11	0.79
21:BL:69:LYS:HB3	21:BL:69:LYS:HZ2	1.47	0.79
32:AW:114:LYS:HA	32:AW:114:LYS:HE3	1.64	0.79
11:BB:99:TRP:CZ3	11:BB:103:THR:HB	2.16	0.79
3:A3:108:HIS:HB2	3:A3:111:GLN:HB2	1.62	0.79
10:AA:3:C:H6	10:AA:3:C:C5'	1.95	0.79
18:AI:42:ASN:HB3	18:AI:43:PRO:HD3	1.63	0.79
6:B6:48:ALA:HA	24:BO:58:ASP:OD1	1.82	0.79
10:AA:1731:G:C2'	10:AA:1732:U:H5''	2.12	0.79
7:B7:88:ILE:HD13	7:B7:93:LYS:HD2	1.62	0.79
25:AP:107:GLU:O	25:AP:110:ARG:HB2	1.80	0.79
10:AA:1443:A:H4'	10:AA:1444:U:H5'	1.65	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:262:G:H4'	10:AA:263:A:OP2	1.81	0.79
10:BA:1613:C:O4'	10:BA:1715:A:C2	2.34	0.79
10:AA:1753:A:OP1	10:AA:1753:A:H8	1.65	0.79
14:BE:230:PHE:HB3	35:BZ:13:MET:HE2	1.65	0.79
32:BW:88:LEU:HD11	32:BW:184:TYR:HE2	1.48	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
2:A2:115:THR:HB	2:A2:116:PRO:HD3	1.65	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
10:AA:1246:C:OP1	10:AA:1399:G:OP1	2.00	0.79
10:AA:393:C:H2'	10:AA:393:C:O2	1.80	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
10:AA:517:U:H2'	10:AA:519:A:OP2	1.82	0.79
10:BA:1570:U:C2'	10:BA:1571:C:H5''	2.12	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
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
11:AB:1:MET:HB3	11:AB:7:GLN:NE2	1.97	0.79
10:BA:1661:G:N3	10:BA:1661:G:H3'	1.96	0.79
11:BB:49:THR:O	11:BB:53:ILE:HG13	1.81	0.79
25:AP:85:PRO:HA	32:AW:59:ARG:HH12	1.46	0.79
35:BZ:47:VAL:HG12	35:BZ:74:ARG:HD2	1.64	0.79
10:BA:1080:G:O5'	10:BA:1080:G:H8	1.65	0.79
10:AA:638:U:H3	10:AA:670:G:H1	1.28	0.79
10:BA:1731:G:H2'	10:BA:1732:U:H5''	1.65	0.79
10:BA:796:U:H2'	10:BA:797:A:C5'	2.11	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
13:BD:38:ASN:HB2	13:BD:40:ARG:HG2	1.63	0.79
10:BA:681:G:N2	10:BA:719:G:N2	2.30	0.79
4:B4:39:PRO:HG3	4:B4:192:LYS:HB2	1.64	0.79
10:BA:478:G:N2	10:BA:494:A:H62	1.81	0.79
10:BA:237:U:H3'	10:BA:238:G:C5'	2.13	0.79
2:A2:141:LYS:NZ	2:A2:143:LYS:HE2	1.98	0.79
17:AH:59:LYS:CD	17:AH:59:LYS:H	1.94	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
18:AI:8:LEU:HD12	18:AI:9:VAL:H	1.48	0.79
8:A8:73:LEU:HB2	8:A8:75:VAL:HG23	1.63	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:84:U:H6	10:BA:84:U:H5'	1.47	0.79
10:BA:881:U:C2'	10:BA:882:G:H5''	2.13	0.79
14:AE:228:PRO:O	14:AE:231:TRP:HB2	1.82	0.79
3:A3:130:LEU:HD12	3:A3:170:ILE:HG23	1.63	0.79
10:AA:391:A:H5'	10:AA:392:A:H5'	1.64	0.79
34:BY:22:LYS:HA	34:BY:25:ASN:HD22	1.46	0.79
26:BQ:22:LEU:CD2	26:BQ:27:THR:HA	2.13	0.79
10:BA:391:A:C4'	10:BA:392:A:H5'	2.13	0.79
33:AX:34:ARG:NH1	33:AX:34:ARG:HB3	1.97	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
7:B7:58:ILE:HD13	12:BC:31:SER:HB3	1.63	0.79
25:AP:33:ALA:HB3	25:AP:38:ILE:HD11	1.65	0.79
10:AA:133:A:H4'	10:AA:134:C:O5'	1.82	0.79
6:A6:52:ILE:HD11	6:A6:62:CYS:HB2	1.63	0.79
16:BG:54:LYS:HG2	16:BG:55:LYS:N	1.97	0.79
10:AA:975:G:H5'	10:AA:976:A:OP2	1.82	0.79
10:AA:642:G:H2'	10:AA:643:U:H5'	1.65	0.79
10:BA:665:A:H2'	10:BA:666:A:C8	2.18	0.79
10:AA:1171:G:H8	23:AN:39:ARG:NH1	1.81	0.79
28:BS:55:SER:HB2	28:BS:58:TYR:CD2	2.18	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
34:BY:132:LYS:HZ1	34:BY:163:ARG:HB3	1.47	0.79
10:BA:1293:A:H4'	10:BA:1294:A:O5'	1.81	0.79
21:BL:62:GLN:HB3	21:BL:63:PRO:HD3	1.63	0.79
12:BC:119:ARG:HH12	14:BE:122:VAL:HB	1.46	0.79
17:BH:76:SER:HB2	17:BH:77:PRO:HD3	1.64	0.78
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
3:B3:95:THR:HG22	3:B3:96:ALA:N	1.98	0.78
10:BA:328:G:C3'	26:BQ:132:LYS:HE2	2.13	0.78
3:B3:136:LEU:H	3:B3:136:LEU:CD2	1.97	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
17:AH:87:GLU:H	17:AH:87:GLU:CD	1.84	0.78
10:BA:290:A:O2'	10:BA:291:A:H5'	1.83	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
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:BF:32:PHE:CD2	15:BF:72:LYS:HE2	2.17	0.78
10:AA:259:U:H2'	10:AA:260:C:H6	1.48	0.78
11:AB:134:SER:HB2	11:AB:152:TYR:CE2	2.19	0.78
10:AA:1514:G:HO2'	10:AA:1515:A:H8	1.31	0.78
10:BA:1032:U:H2'	10:BA:1033:A:O4'	1.83	0.78
10:BA:262:G:H4'	10:BA:263:A:OP2	1.82	0.78
34:BY:180:GLN:O	34:BY:181:ARG:HB2	1.81	0.78
10:AA:733:G:H1	10:AA:782:A:N6	1.79	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
10:BA:561:A:H1'	33:BX:14:VAL:CG2	2.13	0.78
34:AY:22:LYS:HA	34:AY:25:ASN:HD22	1.47	0.78
10:BA:1668:U:H2'	10:BA:1669:G:H8	1.48	0.78
15:AF:17:THR:HG21	15:AF:39:PRO:HD3	1.65	0.78
29:BT:64:LEU:O	29:BT:68:VAL:HG23	1.82	0.78
29:AT:32:LEU:H	29:AT:32:LEU:HD23	1.47	0.78
10:AA:1608:C:N4	10:AA:1718:A:C2	2.52	0.78
10:BA:84:U:H2'	10:BA:85:G:H5'	1.65	0.78
9:B9:159:UNK:CA	9:B9:162:UNK:HG3	2.13	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
10:AA:1153:U:N3	10:AA:1157:U:H5	1.81	0.78
3:B3:102:SER:HA	10:BA:633:U:O4	1.84	0.78
27:BR:127:SER:HB2	27:BR:132:GLN:HB2	1.64	0.78
3:A3:60:ALA:HB2	3:A3:91:ILE:HB	1.64	0.78
35:AZ:47:VAL:HG12	35:AZ:74:ARG:HD2	1.65	0.78
8:A8:63:VAL:HG13	16:AG:97:LEU:HD12	1.65	0.78
25:BP:56:TYR:CE1	25:BP:70:PHE:HB2	2.19	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
1:B1:18:THR:HG22	1:B1:19:GLY:N	1.99	0.78
30:AU:94:ILE:HG22	30:AU:95:LYS:N	1.98	0.78
21:BL:92:LEU:HD12	21:BL:92:LEU:O	1.84	0.78
32:AW:88:LEU:HD11	32:AW:184:TYR:HE2	1.49	0.78
29:AT:66:ARG:O	29:AT:70:LEU:HD12	1.83	0.78
10:BA:17:C:H5'	10:BA:1081:G:H5''	1.66	0.78
10:AA:84:U:H2'	10:AA:85:G:H5'	1.64	0.78
10:AA:764:U:H4'	10:AA:765:A:O5'	1.84	0.78
10:AA:312:C:H4'	10:AA:313:G:O5'	1.81	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BY:156:ILE:HA	34:BY:159:SER:OG	1.83	0.78
21:AL:62:GLN:HB3	21:AL:63:PRO:CD	2.12	0.78
15:AF:32:PHE:CD2	15:AF:72:LYS:HE2	2.19	0.78
22:AM:54:PRO:HG2	22:AM:55:ASN:H	1.49	0.78
9:A9:85:LYS:HG3	9:A9:86:THR:H	1.47	0.78
10:BA:1037:G:C2'	10:BA:1038:U:H5'	2.14	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
27:BR:224:ASN:HB3	27:BR:226:LYS:HG3	1.65	0.78
10:BA:1200:G:O6	30:BU:76:ARG:HD2	1.84	0.78
11:AB:134:SER:HB2	11:AB:152:TYR:HE2	1.46	0.78
18:BI:56:LEU:HD23	18:BI:111:LEU:HD23	1.64	0.78
2:A2:57:ARG:HB2	10:AA:324:A:H5'	1.64	0.78
19:BJ:14:VAL:HG12	19:BJ:16:LYS:HG3	1.66	0.78
10:BA:1721:G:O2'	20:BK:151:LEU:HD13	1.82	0.78
8:B8:43:VAL:CG1	22:BM:57:ARG:HD2	2.13	0.78
10:BA:1179:C:H4'	10:BA:1180:A:O5'	1.83	0.78
10:BA:642:G:H2'	10:BA:643:U:H5'	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
10:BA:868:U:H2'	10:BA:869:A:C5'	2.14	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
14:AE:180:VAL:CG2	14:AE:198:TYR:HA	2.14	0.78
10:AA:1716:A:OP1	10:AA:1724:U:OP1	2.02	0.78
6:B6:48:ALA:H	6:B6:69:VAL:HG21	1.49	0.78
23:AN:39:ARG:HG3	23:AN:40:ARG:N	1.98	0.78
27:BR:190:VAL:HG11	27:BR:216:VAL:HG11	1.64	0.78
10:AA:1299:C:H5''	12:AC:160:MET:O	1.84	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
4:A4:124:ILE:HG23	4:A4:167:VAL:HG13	1.64	0.77
10:BA:3:C:H6	10:BA:3:C:C5'	1.97	0.77
13:BD:17:ARG:HH22	14:BE:183:PRO:CD	1.96	0.77
10:AA:1212:U:H3'	10:AA:1213:G:C5'	2.13	0.77
10:BA:317:G:O6	10:BA:328:G:O6	2.02	0.77
20:BK:47:LEU:N	20:BK:47:LEU:HD23	1.99	0.77
18:BI:9:VAL:HG21	18:BI:94:TYR:HA	1.66	0.77
10:BA:1252:C:H5'	23:BN:43:ARG:HH12	1.49	0.77
10:AA:447:C:O2	10:AA:447:C:H2'	1.84	0.77
7:A7:12:ILE:HD12	7:A7:45:LEU:HD12	1.65	0.77
2:B2:70:GLU:HG2	2:B2:85:LYS:HG2	1.65	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AI:14:ARG:HA	18:AI:18:ALA:O	1.85	0.77
12:AC:10:LYS:HA	12:AC:13:LYS:HE2	1.66	0.77
10:AA:467:A:H5''	13:AD:130:ARG:HD2	1.66	0.77
9:A9:150:UNK:HA	9:A9:153:UNK:CG	2.13	0.77
30:BU:27:LYS:N	30:BU:31:GLU:HG2	1.99	0.77
2:B2:105:VAL:CG1	10:BA:320:G:H4'	2.14	0.77
31:AV:29:HIS:O	31:AV:32:LYS:HG2	1.84	0.77
8:A8:46:GLU:HB2	22:AM:7:LYS:HE3	1.66	0.77
10:BA:599:A:H5'	10:BA:600:A:H5''	1.65	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
4:B4:29:LYS:HB3	4:B4:49:LEU:HD11	1.65	0.77
2:A2:29:LYS:NZ	10:AA:391:A:N6	2.32	0.77
3:B3:132:LEU:HB3	3:B3:133:PRO:CD	2.15	0.77
10:BA:1358:A:H4'	10:BA:1359:C:O5'	1.84	0.77
2:B2:57:ARG:HD3	10:BA:324:A:C8	2.19	0.77
34:BY:152:ASP:HB3	34:BY:153:PRO:HD2	1.65	0.77
32:BW:57:ASN:HD21	32:BW:59:ARG:HB3	1.49	0.77
13:BD:123:HIS:ND1	33:BX:34:ARG:HD3	1.99	0.77
2:B2:36:THR:O	2:B2:103:THR:HA	1.84	0.77
9:B9:146:UNK:HA	9:B9:149:UNK:HG3	1.66	0.77
10:AA:237:U:H3'	10:AA:238:G:C5'	2.13	0.77
29:BT:127:LYS:O	29:BT:128:PHE:HB2	1.83	0.77
32:AW:108:LYS:HB2	32:AW:110:ARG:HE	1.48	0.77
32:AW:51:ARG:NE	32:AW:51:ARG:HA	1.98	0.77
10:AA:481:A:C3'	10:AA:482:A:H5''	2.15	0.77
10:AA:1573:G:H22	29:AT:91:ASN:HD22	1.33	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
19:BJ:20:ARG:HB3	19:BJ:115:THR:HB	1.66	0.77
10:AA:1204:U:O2'	10:AA:1205:G:H5'	1.83	0.77
16:AG:67:LEU:HD12	16:AG:150:ILE:HD11	1.66	0.77
12:BC:40:ILE:HG22	12:BC:42:VAL:HG23	1.64	0.77
10:AA:1482:C:O2'	29:AT:127:LYS:HD2	1.85	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
27:BR:87:GLU:H	27:BR:87:GLU:CD	1.88	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
14:BE:145:TRP:CZ3	14:BE:174:PRO:HG3	2.20	0.77
10:AA:468:U:H5'	10:AA:469:A:O4'	1.83	0.77
10:AA:1555:A:O2'	10:AA:1556:G:O5'	2.02	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:AU:89:ASN:HD22	30:AU:89:ASN:C	1.87	0.77
10:BA:426:G:N2	10:BA:429:A:OP2	2.17	0.77
9:B9:150:UNK:HA	9:B9:153:UNK:CG	2.14	0.77
10:AA:747:G:N2	10:AA:755:G:O6	2.18	0.77
10:BA:1731:G:C2'	10:BA:1732:U:H5''	2.14	0.77
10:BA:1159:U:O2'	10:BA:1160:G:H5'	1.84	0.77
22:BM:28:THR:HG23	22:BM:57:ARG:O	1.84	0.77
10:BA:929:A:O2'	10:BA:930:A:H5'	1.83	0.77
18:AI:27:GLY:HA3	18:AI:66:ASP:OD2	1.82	0.77
26:BQ:10:GLN:HA	26:BQ:10:GLN:OE1	1.85	0.77
31:AV:35:LEU:HD21	31:AV:41:VAL:HG21	1.66	0.77
34:AY:152:ASP:HB3	34:AY:153:PRO:HD2	1.65	0.77
9:A9:86:THR:HG22	9:A9:87:LYS:H	1.49	0.77
7:A7:10:ILE:HG22	7:A7:14:LYS:HE3	1.67	0.77
29:AT:127:LYS:O	29:AT:128:PHE:HB2	1.85	0.77
17:BH:102:VAL:H	17:BH:113:HIS:HB3	1.49	0.77
10:AA:158:G:H5''	34:AY:112:GLN:HE21	1.50	0.77
14:AE:141:ARG:HB3	14:AE:222:THR:HG22	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
22:BM:146:VAL:HG12	22:BM:147:VAL:HG23	1.65	0.77
10:AA:1245:G:O2'	10:AA:1246:C:OP2	2.03	0.77
26:AQ:66:ARG:HG3	26:AQ:66:ARG:NH1	1.99	0.77
14:AE:41:LYS:HB3	14:AE:244:PHE:CE2	2.20	0.77
26:BQ:68:LYS:HD2	26:BQ:126:GLN:CG	2.15	0.77
3:B3:65:VAL:HG21	3:B3:73:LEU:HD22	1.66	0.77
7:A7:61:TRP:CD2	23:AN:22:VAL:HG13	2.20	0.77
26:AQ:85:ILE:HD12	26:AQ:108:VAL:HG21	1.65	0.77
10:BA:1246:C:OP1	10:BA:1399:G:OP1	2.02	0.77
10:BA:1514:G:HO2'	10:BA:1515:A:H8	1.29	0.77
14:BE:231:TRP:HZ3	35:BZ:8:GLN:HB2	1.48	0.77
11:AB:25:LEU:HD21	11:AB:42:HIS:CG	2.20	0.77
10:AA:570:G:H4'	10:AA:574:A:N3	2.00	0.77
2:B2:14:THR:HG23	10:BA:339:C:H1'	1.66	0.77
26:BQ:34:TYR:HE1	26:BQ:48:ILE:HG12	1.50	0.77
10:AA:224:G:H2'	10:AA:225:C:H5'	1.64	0.77
34:BY:106:MET:HA	34:BY:106:MET:HE2	1.66	0.77
10:AA:1668:U:H2'	10:AA:1669:G:H8	1.48	0.77
21:AL:3:VAL:HG12	21:AL:4:GLY:H	1.48	0.77
19:AJ:20:ARG:HB3	19:AJ:115:THR:HB	1.67	0.77
30:BU:96:LYS:HE3	30:BU:98:LYS:NZ	2.00	0.77
10:AA:1:A:H2'	14:AE:180:VAL:CG1	2.15	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:AT:60:ARG:HH22	29:AT:83:PHE:HD2	1.33	0.77
10:AA:760:G:N2	10:AA:764:U:H3	1.82	0.77
4:B4:124:ILE:HG23	4:B4:167:VAL:HG13	1.65	0.77
10:BA:75:C:C1'	34:BY:178:LYS:HG2	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
30:BU:81:GLU:HG3	30:BU:97:VAL:HG21	1.67	0.77
2:A2:70:GLU:HG2	2:A2:85:LYS:HG2	1.67	0.77
21:AL:96:ALA:HB3	21:AL:99:ASP:OD2	1.84	0.77
10:BA:56:G:OP1	25:BP:109:LYS:HE2	1.85	0.77
10:AA:444:A:O2'	10:AA:445:U:OP1	2.03	0.76
18:BI:27:GLY:HA3	18:BI:66:ASP:OD2	1.85	0.76
27:AR:102:LEU:HD12	27:AR:112:LYS:HB2	1.65	0.76
12:AC:226:GLU:HB2	27:AR:207:TYR:HA	1.66	0.76
28:AS:55:SER:HB2	28:AS:58:TYR:CD2	2.20	0.76
14:BE:36:LEU:HD13	14:BE:248:LEU:HD21	1.65	0.76
10:AA:1488:A:O2'	10:AA:1489:U:OP1	2.01	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
2:B2:52:ARG:HD2	10:BA:1647:U:OP1	1.84	0.76
10:AA:1753:A:OP1	10:AA:1753:A:O4'	2.03	0.76
22:BM:27:ILE:CG2	22:BM:29:PRO:HD2	2.16	0.76
10:AA:794:A:H5'	10:AA:795:A:OP2	1.85	0.76
10:AA:1159:U:O2'	10:AA:1160:G:H5'	1.84	0.76
28:BS:46:THR:HG23	28:BS:89:ILE:HD13	1.67	0.76
10:BA:633:U:O2'	10:BA:634:C:OP2	2.02	0.76
11:AB:23:ILE:HG22	11:AB:40:GLY:O	1.86	0.76
27:AR:184:ALA:H	27:AR:206:ARG:NH2	1.83	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
34:AY:156:ILE:HA	34:AY:159:SER:OG	1.84	0.76
10:AA:1032:U:H2'	10:AA:1033:A:O4'	1.84	0.76
19:AJ:51:LYS:HB2	19:AJ:90:ASP:HB2	1.65	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
10:AA:795:A:N6	10:AA:836:G:H2'	2.00	0.76
27:BR:170:TYR:CD1	27:BR:187:PHE:HB3	2.20	0.76
8:B8:30:TRP:C	8:B8:30:TRP:CD1	2.58	0.76
10:AA:249:A:H4'	32:AW:134:GLY:O	1.85	0.76
2:B2:141:LYS:NZ	2:B2:143:LYS:HE2	2.00	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:35:ALA:CB	12:BC:60:GLN:HB2	2.15	0.76
10:BA:1245:G:C4'	10:BA:1246:C:H5''	2.13	0.76
11:AB:5:ARG:HH22	11:AB:12:ARG:HH22	1.32	0.76
27:BR:48:ASP:O	27:BR:49:LYS:HB3	1.84	0.76
2:A2:193:GLY:O	2:A2:197:GLU:HG3	1.86	0.76
32:AW:70:GLN:HG3	32:AW:80:ARG:HH21	1.48	0.76
20:AK:62:VAL:HG12	20:AK:63:LYS:N	2.01	0.76
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
3:B3:138:GLY:H	3:B3:154:GLN:HB2	1.50	0.76
10:AA:74:A:H1'	34:AY:179:ILE:HD11	1.67	0.76
10:BA:1212:U:H5'	10:BA:1213:G:OP1	1.85	0.76
17:BH:14:LEU:O	17:BH:17:ALA:HB3	1.84	0.76
15:BF:51:TRP:NE1	15:BF:84:PHE:CE2	2.50	0.76
11:BB:5:ARG:HH22	11:BB:12:ARG:HH22	1.34	0.76
3:B3:136:LEU:HD23	3:B3:136:LEU:N	2.00	0.76
10:AA:868:U:C2'	10:AA:869:A:H5''	2.16	0.76
10:BA:460:A:OP2	10:BA:460:A:H4'	1.84	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
22:BM:81:ILE:HA	29:BT:40:TRP:CH2	2.20	0.76
17:BH:104:LEU:HD22	17:BH:125:ILE:HA	1.66	0.76
10:BA:1573:G:H22	29:BT:91:ASN:HD22	1.31	0.76
27:AR:127:SER:HB2	27:AR:132:GLN:HB2	1.68	0.76
26:AQ:87:ARG:HH11	26:AQ:104:ARG:NH1	1.83	0.76
32:BW:51:ARG:NE	32:BW:51:ARG:HA	2.01	0.76
18:AI:9:VAL:HG21	18:AI:94:TYR:HA	1.67	0.76
16:BG:122:ARG:HE	16:BG:129:VAL:HG13	1.49	0.76
30:AU:27:LYS:N	30:AU:31:GLU:HG2	2.01	0.76
10:BA:1443:A:H4'	10:BA:1444:U:H5'	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:BY:55:GLY:HA3	34:BY:63:MET:HG3	1.68	0.76
34:AY:64:LYS:NZ	34:AY:82:SER:H	1.83	0.76
10:BA:481:A:C3'	10:BA:482:A:H5''	2.15	0.76
10:BA:259:U:H2'	10:BA:260:C:H6	1.50	0.76
20:BK:103:VAL:O	20:BK:142:ARG:HD2	1.86	0.76
16:BG:152:GLY:O	16:BG:155:GLU:HB2	1.86	0.76
4:A4:39:PRO:HG3	4:A4:192:LYS:HB2	1.67	0.76
21:BL:96:ALA:HB3	21:BL:99:ASP:OD2	1.85	0.76
14:AE:83:GLN:OE1	14:AE:208:ARG:HB3	1.86	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1556:G:N2	10:AA:1583:A:OP2	2.19	0.76
10:AA:1007:U:H3'	10:AA:1008:A:C5'	2.15	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
8:A8:30:TRP:C	8:A8:30:TRP:CD1	2.59	0.76
13:BD:109:LEU:O	13:BD:113:VAL:HG23	1.86	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
17:AH:14:LEU:O	17:AH:17:ALA:HB3	1.86	0.76
25:AP:16:LEU:HA	25:AP:83:TYR:CE2	2.20	0.76
20:AK:103:VAL:O	20:AK:142:ARG:HD2	1.85	0.76
9:B9:85:LYS:HG3	9:B9:86:THR:H	1.49	0.76
10:BA:1194:G:H1	10:BA:1233:U:H3	1.33	0.76
15:AF:73:LEU:H	15:AF:73:LEU:HD23	1.49	0.76
6:A6:42:GLN:HE22	6:A6:55:GLU:H	1.32	0.76
10:AA:8:U:O4	10:AA:15:U:O4	2.04	0.76
10:BA:760:G:N2	10:BA:764:U:H3	1.83	0.76
10:AA:1358:A:H4'	10:AA:1359:C:O5'	1.85	0.76
32:BW:89:MET:HG3	32:BW:228:PHE:CE2	2.21	0.76
34:AY:55:GLY:HA3	34:AY:63:MET:HG3	1.68	0.76
17:AH:102:VAL:H	17:AH:113:HIS:HB3	1.50	0.76
10:AA:512:C:H2'	10:AA:513:A:H5''	1.66	0.76
9:B9:131:ARG:HD3	9:B9:142:LYS:HB2	1.66	0.76
14:BE:48:ILE:HA	14:BE:53:ILE:HD12	1.67	0.76
13:AD:80:MET:HG3	13:AD:85:LEU:HB2	1.68	0.76
29:AT:45:VAL:CG2	29:AT:99:CYS:HA	2.12	0.76
10:AA:1721:G:O2'	20:AK:151:LEU:HD13	1.84	0.76
10:AA:983:A:H2'	10:AA:984:C:C6	2.21	0.76
13:AD:109:LEU:O	13:AD:113:VAL:HG23	1.86	0.76
10:BA:895:U:O2'	20:BK:43:HIS:HD2	1.69	0.76
10:BA:1732:U:C5'	10:BA:1732:U:H6	1.97	0.76
9:A9:164:UNK:O	9:A9:167:UNK:HG3	1.86	0.76
7:B7:17:LEU:HD13	7:B7:76:LEU:HD12	1.65	0.76
27:AR:7:LEU:HA	27:AR:341:SER:HA	1.67	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
4:B4:108:ILE:HD11	4:B4:219:ARG:HA	1.68	0.76
15:AF:44:TYR:HD1	15:AF:44:TYR:H	1.30	0.76
10:BA:1204:U:O2'	10:BA:1205:G:H5'	1.84	0.76
19:BJ:85:TYR:HB3	19:BJ:87:ARG:HH21	1.51	0.76
17:AH:59:LYS:N	17:AH:59:LYS:HD3	1.94	0.75
10:BA:444:A:O2'	10:BA:445:U:OP1	2.03	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BE:233:LYS:HD3	35:BZ:9:ARG:HG2	1.68	0.75
10:AA:259:U:H2'	10:AA:260:C:C6	2.22	0.75
30:AU:49:ASP:OD1	30:AU:75:LYS:HA	1.85	0.75
10:BA:1063:A:O2'	10:BA:1064:A:OP2	2.04	0.75
3:B3:173:ILE:O	3:B3:177:VAL:HG23	1.86	0.75
28:BS:97:GLY:O	28:BS:112:VAL:HG23	1.86	0.75
26:BQ:146:ILE:HG23	26:BQ:153:GLN:HE21	1.50	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
10:AA:84:U:H6	10:AA:84:U:H5'	1.51	0.75
10:BA:27:A:C8	10:BA:27:A:H5'	2.22	0.75
3:B3:194:THR:HG21	10:BA:1027:U:O3'	1.87	0.75
10:BA:1299:C:H5''	12:BC:160:MET:O	1.86	0.75
20:AK:103:VAL:HG12	20:AK:142:ARG:HG2	1.68	0.75
9:B9:86:THR:HG22	9:B9:87:LYS:H	1.50	0.75
2:A2:38:LEU:HD21	2:A2:104:LEU:HD11	1.68	0.75
10:AA:1037:G:C2'	10:AA:1038:U:H5'	2.16	0.75
10:BA:1069:U:H3'	14:BE:160:THR:HG21	1.67	0.75
10:AA:444:A:O2'	10:AA:445:U:H5'	1.85	0.75
10:BA:59:C:H3'	10:BA:60:C:H5''	1.67	0.75
14:AE:228:PRO:CB	17:AH:68:ARG:HH21	1.99	0.75
27:BR:102:LEU:HD12	27:BR:112:LYS:HB2	1.66	0.75
13:AD:123:HIS:ND1	33:AX:34:ARG:HD3	2.00	0.75
25:BP:16:LEU:HA	25:BP:83:TYR:CE2	2.22	0.75
16:BG:67:LEU:HD12	16:BG:150:ILE:HD11	1.67	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:538:A:O2'	10:AA:539:U:C6	2.39	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
10:BA:1535:A:O2'	10:BA:1536:U:H5'	1.87	0.75
27:AR:170:TYR:HD1	27:AR:187:PHE:HB3	1.50	0.75
10:BA:309:U:H3	10:BA:337:G:H1	1.34	0.75
28:AS:46:THR:HG23	28:AS:89:ILE:HD13	1.69	0.75
32:BW:114:LYS:HE3	32:BW:114:LYS:HA	1.68	0.75
26:AQ:146:ILE:HG23	26:AQ:153:GLN:HE21	1.51	0.75
3:B3:63:ILE:HD11	3:B3:94:PHE:CD2	2.22	0.75
27:AR:87:GLU:H	27:AR:87:GLU:CD	1.88	0.75
14:AE:231:TRP:HZ3	35:AZ:8:GLN:HB2	1.51	0.75
10:BA:718:A:C2'	10:BA:719:G:H5'	2.17	0.75
34:BY:132:LYS:NZ	34:BY:163:ARG:HB3	2.02	0.75
10:BA:747:G:N2	10:BA:755:G:O6	2.20	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:468:U:H5'	10:BA:469:A:O4'	1.86	0.75
33:BX:34:ARG:HB3	33:BX:34:ARG:NH1	2.00	0.75
2:B2:115:THR:HB	2:B2:116:PRO:HD3	1.67	0.75
10:AA:1332:A:H2'	10:AA:1333:A:C8	2.21	0.75
16:AG:34:ALA:HB3	16:AG:63:ILE:H	1.51	0.75
16:BG:34:ALA:HB3	16:BG:63:ILE:H	1.50	0.75
1:A1:7:THR:HG23	1:A1:33:SER:HB3	1.69	0.75
20:BK:36:THR:HG22	20:BK:37:TRP:N	2.02	0.75
10:BA:1486:U:H5'	10:BA:1487:A:N3	2.01	0.75
26:AQ:10:GLN:OE1	26:AQ:10:GLN:HA	1.87	0.75
14:AE:36:LEU:HD13	14:AE:248:LEU:HD21	1.67	0.75
20:BK:119:LEU:O	20:BK:124:MET:HB2	1.87	0.75
3:A3:147:GLY:HA3	17:AH:39:ARG:NH2	2.01	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
10:AA:59:C:H3'	10:AA:60:C:H5''	1.68	0.75
18:BI:14:ARG:HA	18:BI:18:ALA:O	1.87	0.75
1:B1:41:LEU:HG	1:B1:63:GLU:HB2	1.69	0.75
27:AR:170:TYR:CD1	27:AR:187:PHE:HB3	2.22	0.75
16:BG:14:PHE:CE2	16:BG:89:LYS:HA	2.21	0.75
10:AA:986:G:OP1	20:AK:149:ARG:CZ	2.35	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:201:A:O2'	10:AA:202:U:H5'	1.85	0.75
10:AA:1080:G:H8	10:AA:1080:G:O5'	1.68	0.75
13:BD:80:MET:HG3	13:BD:85:LEU:HB2	1.68	0.75
22:AM:27:ILE:CG2	22:AM:29:PRO:HD2	2.16	0.75
10:BA:533:G:H8	33:BX:28:ARG:NH1	1.85	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
26:AQ:116:VAL:CG1	26:AQ:117:LYS:H	1.97	0.75
10:AA:477:G:O2'	10:AA:478:G:H5'	1.87	0.75
2:B2:200:ILE:HG22	2:B2:204:GLN:HE21	1.50	0.75
10:AA:1551:U:H1'	18:AI:141:GLN:HE22	1.52	0.75
10:AA:858:C:C3'	10:AA:859:A:H5''	2.16	0.75
10:AA:1263:G:N2	10:AA:1296:G:H1	1.85	0.75
10:AA:1063:A:O2'	10:AA:1064:A:OP2	2.05	0.75
30:BU:117:LYS:HA	30:BU:120:ILE:HD12	1.69	0.75
14:BE:66:PRO:HB2	14:BE:68:ASN:ND2	2.02	0.75
14:AE:166:VAL:C	14:AE:167:ARG:HD2	2.07	0.75
10:AA:1558:A:C5	10:AA:1583:A:N6	2.55	0.75
10:AA:84:U:H2'	10:AA:85:G:H5''	1.66	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1006:C:H4'	10:BA:1007:U:O5'	1.86	0.75
10:AA:391:A:H4'	10:AA:392:A:H5'	1.69	0.75
32:AW:99:GLN:HB3	32:AW:101:PHE:HE1	1.52	0.75
31:AV:105:MET:HE1	31:AV:109:LEU:HD22	1.69	0.75
10:BA:1055:G:O2'	10:BA:1056:A:H5'	1.87	0.75
4:B4:53:SER:OG	4:B4:59:ALA:HB2	1.87	0.75
22:AM:28:THR:HG23	22:AM:57:ARG:O	1.86	0.74
10:AA:1212:U:H5'	10:AA:1213:G:OP1	1.86	0.74
10:AA:1153:U:H3	10:AA:1157:U:H5	1.34	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:AA:1657:G:H1	10:AA:1668:U:H3	1.35	0.74
10:BA:515:U:OP1	25:BP:35:LYS:HE2	1.87	0.74
10:AA:1179:C:H4'	10:AA:1180:A:O5'	1.87	0.74
2:B2:154:THR:C	2:B2:156:ALA:H	1.90	0.74
10:AA:75:C:H6	10:AA:75:C:O5'	1.69	0.74
10:BA:1608:C:N4	10:BA:1718:A:C2	2.54	0.74
6:A6:18:LYS:HZ2	10:AA:936:U:H5''	1.50	0.74
10:BA:44:U:H3	10:BA:425:A:H2	1.33	0.74
3:A3:129:ASP:O	3:A3:132:LEU:HB2	1.86	0.74
4:B4:90:VAL:O	4:B4:101:THR:HG23	1.86	0.74
3:A3:136:LEU:H	3:A3:136:LEU:CD2	1.99	0.74
21:BL:52:VAL:HG13	21:BL:71:VAL:CG1	2.17	0.74
2:B2:29:LYS:HZ1	10:BA:391:A:H62	1.35	0.74
31:AV:107:LYS:HA	31:AV:112:GLN:HB3	1.67	0.74
4:A4:53:SER:OG	4:A4:59:ALA:HB2	1.87	0.74
10:BA:1332:A:H2'	10:BA:1333:A:C8	2.21	0.74
14:AE:107:ASP:C	14:AE:109:ASN:H	1.91	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
13:BD:60:LEU:HD22	13:BD:93:LEU:HD13	1.68	0.74
16:AG:54:LYS:HG2	16:AG:55:LYS:N	2.02	0.74
10:BA:844:G:O2'	10:BA:845:G:H5'	1.88	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
4:A4:48:THR:HG22	4:A4:49:LEU:N	2.02	0.74
10:BA:1259:A:O2'	10:BA:1260:G:C8	2.40	0.74
10:AA:1535:A:O2'	10:AA:1536:U:H5'	1.86	0.74
13:AD:80:MET:CE	13:AD:96:VAL:HG13	2.17	0.74
14:BE:154:THR:CG2	14:BE:172:PRO:HA	2.08	0.74
10:AA:1514:G:H5'	29:AT:90:GLY:CA	2.18	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:BG:57:ARG:CA	16:BG:57:ARG:HH11	1.92	0.74
9:A9:146:UNK:HA	9:A9:149:UNK:HG3	1.67	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:231:TRP:CE2	17:BH:68:ARG:HG3	2.22	0.74
16:BG:99:THR:HG22	16:BG:101:ARG:HG3	1.70	0.74
10:AA:245:A:HO2'	10:AA:246:U:H3'	1.51	0.74
32:AW:126:LEU:HD22	32:AW:143:THR:HG21	1.68	0.74
15:AF:41:GLU:O	8:B8:32:LYS:HB3	1.88	0.74
10:AA:481:A:H3'	10:AA:482:A:H5''	1.70	0.74
10:AA:149:U:H4'	34:AY:58:LYS:O	1.86	0.74
10:AA:469:A:N6	10:AA:531:A:C2	2.56	0.74
34:AY:160:VAL:HG12	34:AY:161:ILE:N	2.00	0.74
10:AA:761:U:C5	25:AP:7:THR:O	2.41	0.74
30:AU:69:LYS:HB3	30:AU:124:LEU:HD13	1.67	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
27:AR:225:GLY:O	27:AR:242:ILE:HD12	1.88	0.74
5:A5:7:ASN:HB3	5:A5:10:ARG:O	1.87	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
10:AA:63:U:H3'	10:AA:64:U:H5''	1.69	0.74
10:BA:1601:G:H4'	10:BA:1747:A:OP1	1.88	0.74
10:BA:983:A:H2'	10:BA:984:C:C6	2.22	0.74
4:B4:43:LYS:HD2	4:B4:44:SER:H	1.52	0.74
14:AE:149:ILE:HG22	14:AE:150:ALA:N	2.01	0.74
27:AR:125:ALA:HB3	27:AR:134:LEU:HB3	1.68	0.74
2:B2:193:GLY:O	2:B2:197:GLU:HG3	1.86	0.74
6:A6:6:LEU:HD13	17:AH:51:GLU:OE1	1.86	0.74
27:AR:298:PRO:CD	27:AR:334:ARG:HH21	2.00	0.74
25:BP:131:THR:HG22	25:BP:133:ALA:H	1.51	0.74
19:AJ:85:TYR:HB3	19:AJ:87:ARG:HH21	1.50	0.74
10:AA:599:A:H5'	10:AA:600:A:H5''	1.68	0.74
1:A1:62:ARG:NH2	16:AG:200:ARG:HB2	2.01	0.74
10:BA:1325:G:H2'	10:BA:1326:C:C5'	2.09	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
34:BY:165:PHE:CE1	34:BY:173:ARG:HB2	2.22	0.74
27:BR:298:PRO:CD	27:BR:334:ARG:HH21	2.00	0.74
26:BQ:146:ILE:HD13	26:BQ:153:GLN:HG2	1.67	0.74
8:A8:102:GLN:OE1	16:AG:165:ALA:HB3	1.87	0.74
12:BC:38:ALA:HB2	12:BC:94:ILE:HD11	1.70	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AJ:14:VAL:HG12	19:AJ:16:LYS:HG3	1.69	0.74
26:BQ:39:LEU:HA	32:BW:204:GLN:NE2	2.01	0.74
10:AA:1171:G:O2'	10:AA:1172:G:OP1	2.05	0.74
10:AA:215:A:O2'	10:AA:216:G:H5'	1.88	0.74
10:BA:27:A:H5'	10:BA:27:A:H8	1.50	0.74
10:AA:1575:U:H2'	10:AA:1576:U:C6	2.23	0.74
10:BA:447:C:O2	10:BA:447:C:H2'	1.86	0.74
11:AB:64:GLN:HG2	14:AE:245:SER:OG	1.88	0.74
10:AA:844:G:O2'	10:AA:845:G:H5'	1.86	0.74
10:BA:426:G:OP1	21:BL:77:LYS:HB2	1.88	0.74
31:AV:61:ILE:HG12	31:AV:66:VAL:CG2	2.18	0.74
3:A3:136:LEU:N	3:A3:136:LEU:HD23	2.03	0.74
20:AK:47:LEU:HD23	20:AK:47:LEU:N	2.02	0.74
10:BA:469:A:N6	10:BA:531:A:C2	2.56	0.74
35:AZ:34:TRP:O	35:AZ:35:SER:HB3	1.86	0.74
14:BE:149:ILE:HG22	14:BE:150:ALA:N	2.02	0.74
2:A2:36:THR:O	2:A2:103:THR:HA	1.87	0.74
14:AE:48:ILE:HA	14:AE:53:ILE:HD12	1.70	0.74
10:AA:604:G:H21	21:AL:19:ARG:NH2	1.86	0.74
10:AA:1580:U:C5'	18:AI:74:SER:HB2	2.17	0.74
18:AI:79:GLN:O	18:AI:83:ILE:HG13	1.88	0.74
24:BO:137:LEU:HD21	24:BO:141:TRP:CD1	2.23	0.74
10:BA:1007:U:H3'	10:BA:1008:A:C5'	2.17	0.74
10:AA:1608:C:C4'	10:AA:1609:C:H5''	2.12	0.74
10:BA:162:A:C5'	34:BY:136:LYS:HB3	2.18	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:AA:1250:G:H1	10:AA:1401:U:H3	1.36	0.74
10:AA:328:G:C3'	26:AQ:132:LYS:HE2	2.17	0.74
10:BA:336:U:O2'	10:BA:337:G:H8	1.67	0.74
16:AG:99:THR:HG22	16:AG:101:ARG:HG3	1.69	0.74
26:BQ:66:ARG:NH1	26:BQ:66:ARG:HG3	2.02	0.74
10:BA:1188:A:H2'	10:BA:1415:A:N1	2.02	0.74
27:AR:238:LEU:HD11	27:AR:248:PRO:HG3	1.70	0.74
26:BQ:44:PRO:HG2	26:BQ:47:ALA:HB2	1.70	0.74
10:AA:1072:G:H1'	17:AH:76:SER:OG	1.88	0.73
6:A6:33:VAL:HG21	6:A6:44:ILE:HD12	1.69	0.73
10:AA:631:C:H6	10:AA:631:C:H5'	1.53	0.73
10:BA:1212:U:H3'	10:BA:1213:G:C5'	2.15	0.73
31:AV:4:VAL:C	31:AV:5:ARG:HD3	2.07	0.73
26:BQ:85:ILE:HD12	26:BQ:108:VAL:HG21	1.70	0.73
10:BA:1430:C:O2'	10:BA:1431:A:H5'	1.88	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:BM:35:ILE:HD12	22:BM:38:ILE:HD12	1.70	0.73
28:BS:38:LEU:HB3	28:BS:42:PHE:HE1	1.52	0.73
10:AA:492:C:H2'	10:AA:493:U:C6	2.23	0.73
2:A2:200:ILE:HG22	2:A2:204:GLN:HE21	1.52	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
6:B6:42:GLN:NE2	6:B6:55:GLU:H	1.85	0.73
10:BA:1657:G:H1	10:BA:1668:U:H3	1.35	0.73
30:BU:39:LYS:HE3	30:BU:66:ASN:O	1.88	0.73
10:AA:584:C:OP1	33:AX:44:ARG:NH2	2.20	0.73
11:AB:27:ASN:O	11:AB:30:LYS:HB2	1.87	0.73
34:AY:9:LEU:H	34:AY:9:LEU:HD23	1.53	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
6:B6:46:SER:C	6:B6:47:ASN:HD22	1.91	0.73
10:BA:478:G:H2'	10:BA:479:G:C1'	2.18	0.73
8:B8:46:GLU:HG3	22:BM:5:ILE:O	1.88	0.73
32:AW:89:MET:HG3	32:AW:228:PHE:CE2	2.23	0.73
7:A7:101:SER:HB2	12:AC:90:TRP:CE3	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
10:AA:1208:A:H2'	10:AA:1209:G:C8	2.23	0.73
10:BA:1558:A:C5	10:BA:1583:A:N6	2.56	0.73
34:BY:160:VAL:HG12	34:BY:161:ILE:N	2.00	0.73
20:BK:55:ARG:HG2	20:BK:55:ARG:O	1.86	0.73
10:BA:145:G:N1	10:BA:157:G:N2	2.35	0.73
9:B9:97:ALA:HB1	30:BU:29:LEU:HD13	1.68	0.73
27:BR:125:ALA:HB3	27:BR:134:LEU:HB3	1.67	0.73
28:AS:38:LEU:HB3	28:AS:42:PHE:HE1	1.52	0.73
31:BV:29:HIS:O	31:BV:32:LYS:HG2	1.87	0.73
26:AQ:35:LYS:HG2	26:AQ:36:ASN:H	1.52	0.73
29:AT:15:ALA:HA	29:AT:18:PHE:HB3	1.71	0.73
4:A4:38:ILE:HG22	4:A4:39:PRO:HD2	1.68	0.73
10:BA:1016:U:O2'	17:BH:20:MET:HG3	1.88	0.73
32:AW:159:GLY:O	32:AW:177:LEU:HD22	1.88	0.73
14:AE:166:VAL:HG21	14:AE:210:ASN:HB3	1.70	0.73
10:AA:135:A:O2'	10:AA:136:U:OP2	2.05	0.73
10:BA:1716:A:OP1	10:BA:1724:U:OP1	2.06	0.73
1:B1:19:GLY:O	1:B1:21:ARG:N	2.22	0.73
10:AA:1241:U:O2'	10:AA:1242:G:OP2	2.06	0.73
4:B4:48:THR:HG22	4:B4:49:LEU:N	2.03	0.73
10:AA:718:A:C2'	10:AA:719:G:H5'	2.17	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1301:A:C2'	10:AA:1302:G:H5'	2.19	0.73
2:B2:38:LEU:HD21	2:B2:104:LEU:HD11	1.70	0.73
29:AT:108:LEU:HD13	29:AT:130:ARG:HG3	1.70	0.73
13:AD:17:ARG:HH22	14:AE:183:PRO:CD	2.02	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
10:BA:444:A:H3'	10:BA:445:U:C6	2.23	0.73
20:BK:64:ALA:HB3	20:BK:67:GLU:HG2	1.68	0.73
10:AA:876:A:H4'	10:AA:877:G:O5'	1.87	0.73
9:A9:131:ARG:HD3	9:A9:142:LYS:HB2	1.68	0.73
10:BA:684:A:H2'	10:BA:685:A:C4	2.23	0.73
10:BA:492:C:H2'	10:BA:493:U:C6	2.24	0.73
2:A2:166:GLN:HE22	2:A2:173:LEU:HD23	1.54	0.73
12:BC:130:ILE:HA	12:BC:134:ALA:HB3	1.69	0.73
10:BA:1488:A:O2'	10:BA:1489:U:OP1	2.03	0.73
29:AT:112:GLU:OE2	29:AT:119:LYS:HG3	1.88	0.73
10:AA:515:U:OP1	25:AP:35:LYS:HE2	1.88	0.73
10:AA:1516:U:O2'	22:AM:149:GLY:HA2	1.86	0.73
34:BY:181:ARG:HH11	34:BY:181:ARG:HG2	1.54	0.73
10:BA:942:U:O2'	10:BA:943:U:H5''	1.89	0.73
9:A9:146:UNK:HA	9:A9:149:UNK:CG	2.19	0.73
10:AA:633:U:O2'	10:AA:634:C:OP2	2.04	0.73
10:AA:316:G:O2'	10:AA:317:G:H5'	1.89	0.73
10:BA:868:U:C2'	10:BA:869:A:H5''	2.18	0.73
10:BA:201:A:O2'	10:BA:202:U:H5'	1.88	0.73
34:BY:9:LEU:HD23	34:BY:9:LEU:H	1.53	0.73
1:A1:17:LYS:HE3	10:AA:1588:G:H4'	1.70	0.73
10:AA:56:G:OP1	25:AP:109:LYS:HE2	1.88	0.73
13:AD:60:LEU:HD22	13:AD:93:LEU:HD13	1.70	0.73
6:A6:18:LYS:NZ	10:AA:936:U:H5''	2.04	0.73
10:AA:426:G:N2	10:AA:429:A:OP2	2.21	0.73
9:B9:164:UNK:O	9:B9:167:UNK:HG3	1.87	0.73
10:BA:1171:G:O2'	10:BA:1172:G:OP1	2.06	0.73
10:AA:1567:U:H5'	23:AN:29:LEU:HD11	1.70	0.73
10:AA:492:C:H2'	10:AA:493:U:H6	1.54	0.73
10:AA:1714:U:O2'	10:AA:1715:A:H5'	1.89	0.73
10:AA:318:U:H4'	26:AQ:11:LYS:NZ	2.03	0.73
14:AE:233:LYS:CG	14:AE:234:PRO:HD2	2.19	0.73
10:BA:259:U:H2'	10:BA:260:C:C6	2.23	0.73
12:AC:38:ALA:HB2	12:AC:94:ILE:HD11	1.70	0.73
21:BL:101:VAL:CG1	21:BL:123:VAL:HG13	2.18	0.73
14:AE:154:THR:CG2	14:AE:172:PRO:HA	2.13	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
10:BA:1172:G:O2'	10:BA:1173:G:OP1	2.02	0.73
10:AA:309:U:H3	10:AA:337:G:H1	1.35	0.73
10:BA:477:G:O2'	10:BA:478:G:H5'	1.88	0.73
2:A2:194:LYS:HE2	26:AQ:4:GLN:NE2	2.03	0.73
10:BA:1037:G:H2'	10:BA:1038:U:H5'	1.71	0.73
29:BT:9:THR:HG22	29:BT:10:VAL:N	2.03	0.73
33:AX:50:LEU:HD23	33:AX:57:ARG:HH12	1.52	0.73
14:BE:154:THR:HG22	14:BE:155:ILE:HG13	1.71	0.73
10:AA:1721:G:H21	20:AK:151:LEU:CD1	2.01	0.73
28:BS:46:THR:HG23	28:BS:89:ILE:CD1	2.19	0.73
11:BB:23:ILE:HG22	11:BB:40:GLY:O	1.89	0.73
21:AL:69:LYS:HB3	21:AL:69:LYS:NZ	2.04	0.73
16:BG:12:LYS:HB3	16:BG:17:TRP:H	1.53	0.73
32:AW:116:LEU:HD12	32:AW:120:GLU:CB	2.19	0.73
26:BQ:87:ARG:HH11	26:BQ:104:ARG:NH1	1.87	0.73
33:BX:50:LEU:HD23	33:BX:57:ARG:NH1	2.03	0.73
2:A2:84:THR:HG22	2:A2:85:LYS:H	1.54	0.73
10:BA:1381:A:H2'	10:BA:1382:A:O4'	1.89	0.73
31:BV:107:LYS:HA	31:BV:112:GLN:HB3	1.70	0.73
3:A3:138:GLY:H	3:A3:154:GLN:HB2	1.53	0.73
14:BE:180:VAL:CG2	14:BE:198:TYR:HA	2.18	0.73
10:BA:604:G:H21	21:BL:19:ARG:NH2	1.86	0.73
10:AA:444:A:H3'	10:AA:445:U:C6	2.24	0.73
29:AT:99:CYS:SG	29:AT:100:HIS:N	2.62	0.73
24:BO:135:GLN:HG3	26:BQ:147:ILE:HD11	1.71	0.73
10:BA:1340:G:C2'	10:BA:1341:U:H5''	2.19	0.73
24:AO:86:LEU:HD11	24:AO:90:LEU:HD23	1.68	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
10:BA:647:U:H3	10:BA:661:G:H1	1.37	0.73
10:BA:1001:A:HO2'	10:BA:1002:U:H6	1.36	0.73
10:BA:681:G:H1	10:BA:719:G:N2	1.87	0.73
3:A3:173:ILE:O	3:A3:177:VAL:HG23	1.88	0.73
28:AS:55:SER:HB2	28:AS:58:TYR:HD2	1.53	0.73
14:BE:41:LYS:HB3	14:BE:244:PHE:CE2	2.24	0.73
10:BA:512:C:C2'	10:BA:513:A:H5''	2.19	0.73
10:AA:512:C:C2'	10:AA:513:A:H5''	2.19	0.73
10:BA:505:A:OP2	13:BD:170:GLY:N	2.20	0.73
35:BZ:11:LYS:HB3	35:BZ:12:PRO:HD2	1.71	0.73
5:B5:7:ASN:HB3	5:B5:10:ARG:O	1.89	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1497:A:H4'	29:AT:86:ASN:ND2	2.03	0.72
10:BA:1186:G:H1	10:BA:1420:U:H3	1.36	0.72
10:AA:1369:A:H2'	10:AA:1370:U:C6	2.24	0.72
10:BA:794:A:H5'	10:BA:795:A:OP2	1.89	0.72
30:AU:70:TYR:CE2	30:AU:126:ALA:HB3	2.24	0.72
11:AB:22:THR:HG22	11:AB:23:ILE:N	2.04	0.72
30:BU:76:ARG:HG3	30:BU:99:GLY:HA3	1.69	0.72
4:B4:38:ILE:HG22	4:B4:39:PRO:HD2	1.70	0.72
11:BB:60:ILE:O	11:BB:63:VAL:HG22	1.89	0.72
32:AW:47:LEU:HD11	32:AW:113:LEU:HD11	1.71	0.72
10:BA:588:A:H4'	10:BA:589:G:O5'	1.89	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
16:AG:158:PHE:HD2	16:AG:159:LYS:HG3	1.54	0.72
29:BT:45:VAL:CG2	29:BT:99:CYS:HA	2.12	0.72
10:AA:1325:G:H2'	10:AA:1326:C:C5'	2.09	0.72
18:BI:79:GLN:O	18:BI:83:ILE:HG13	1.88	0.72
10:BA:1250:G:H1	10:BA:1401:U:H3	1.35	0.72
10:AA:948:A:C2'	10:AA:949:A:H5'	2.19	0.72
10:BA:948:A:C2'	10:BA:949:A:H5'	2.19	0.72
32:BW:48:LEU:HD23	32:BW:48:LEU:N	2.03	0.72
34:AY:106:MET:HE2	34:AY:106:MET:HA	1.71	0.72
7:A7:11:ARG:HG3	7:A7:15:GLN:NE2	2.04	0.72
20:BK:103:VAL:HG12	20:BK:142:ARG:HG2	1.71	0.72
10:AA:513:A:H5'	10:AA:513:A:H8	1.54	0.72
28:AS:98:ILE:O	28:AS:98:ILE:HG13	1.90	0.72
10:AA:1486:U:H5'	10:AA:1487:A:N3	2.04	0.72
10:BA:1555:A:H62	16:BG:52:GLN:HG2	1.54	0.72
10:BA:797:A:N6	10:BA:836:G:N7	2.37	0.72
10:BA:664:A:H2'	10:BA:665:A:C8	2.24	0.72
10:BA:235:A:H5''	10:BA:236:U:O5'	1.89	0.72
32:BW:116:LEU:HD12	32:BW:120:GLU:CB	2.20	0.72
10:AA:453:G:OP2	13:AD:1:MET:HG3	1.89	0.72
10:BA:1253:G:OP1	19:BJ:76:THR:HG21	1.88	0.72
27:BR:296:ALA:HB1	27:BR:310:PRO:HG2	1.71	0.72
14:BE:73:ALA:HB1	14:BE:75:HIS:CD2	2.24	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
10:BA:794:A:C2	10:BA:836:G:H1'	2.24	0.72
12:AC:35:ALA:CB	12:AC:60:GLN:HB2	2.18	0.72
27:BR:77:HIS:CD2	27:BR:96:TRP:HB2	2.24	0.72
10:BA:492:C:H2'	10:BA:493:U:H6	1.55	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:AX:63:HIS:O	33:AX:65:GLY:N	2.22	0.72
10:AA:192:C:O2'	10:AA:193:C:H5'	1.88	0.72
32:AW:47:LEU:CD1	32:AW:113:LEU:HD11	2.20	0.72
10:BA:1015:C:H5'	10:BA:1016:U:OP2	1.88	0.72
30:AU:117:LYS:HA	30:AU:120:ILE:HD12	1.70	0.72
3:B3:196:LYS:HD3	3:B3:196:LYS:O	1.88	0.72
31:AV:114:ILE:HB	31:AV:115:PRO:CD	2.20	0.72
24:AO:101:ARG:HH12	24:AO:145:ALA:HA	1.55	0.72
10:AA:271:U:H4'	10:AA:272:U:H5'	1.71	0.72
4:B4:64:LYS:HG2	4:B4:65:GLY:N	2.04	0.72
14:AE:155:ILE:HG22	14:AE:156:PRO:HD2	1.71	0.72
29:BT:60:ARG:HH22	29:BT:83:PHE:HD2	1.35	0.72
7:A7:61:TRP:HE1	12:AC:26:SER:CB	2.03	0.72
1:A1:41:LEU:HG	1:A1:63:GLU:HB2	1.70	0.72
27:BR:225:GLY:O	27:BR:242:ILE:HD12	1.89	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
2:A2:173:LEU:HB3	2:A2:191:LEU:HD12	1.70	0.72
14:AE:233:LYS:HD3	35:AZ:9:ARG:HG2	1.71	0.72
17:BH:102:VAL:HB	17:BH:113:HIS:HB2	1.69	0.72
11:AB:11:LYS:HD3	31:AV:93:ILE:O	1.90	0.72
21:AL:19:ARG:HH12	21:AL:22:GLN:HB2	1.53	0.72
18:AI:18:ALA:HA	18:AI:73:GLY:CA	2.19	0.72
10:AA:894:U:H3	20:AK:55:ARG:HH12	1.35	0.72
10:AA:625:G:H1	10:AA:946:U:H3	1.35	0.72
7:B7:11:ARG:HG3	7:B7:15:GLN:NE2	2.04	0.72
28:AS:16:LYS:O	28:AS:16:LYS:HG3	1.88	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:AY:189:LEU:O	34:AY:193:VAL:HG23	1.90	0.72
7:A7:38:PRO:HB2	7:A7:41:HIS:CD2	2.24	0.72
34:BY:189:LEU:O	34:BY:193:VAL:HG23	1.89	0.72
10:BA:1:A:H5'	10:BA:2:A:OP1	1.89	0.72
10:AA:445:U:O2	10:AA:445:U:H2'	1.90	0.72
10:BA:1714:U:O2'	10:BA:1715:A:H5'	1.87	0.72
10:AA:942:U:H2'	10:AA:942:U:O2	1.88	0.72
20:AK:119:LEU:O	20:AK:124:MET:HB2	1.89	0.72
10:AA:1716:A:H2'	10:AA:1717:C:H5''	1.72	0.72
9:B9:150:UNK:C	9:B9:153:UNK:HG3	2.20	0.72
8:B8:75:VAL:HG13	8:B8:79:LEU:HD13	1.69	0.72
13:BD:136:VAL:HG22	13:BD:156:ILE:HG23	1.72	0.72
10:BA:327:G:C2'	10:BA:328:G:H5''	2.20	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:206:U:H5''	26:AQ:20:LYS:CD	2.20	0.72
10:AA:206:U:H5''	26:AQ:20:LYS:HD2	1.71	0.72
13:AD:158:PHE:CD1	13:AD:158:PHE:N	2.56	0.72
4:A4:43:LYS:HD2	4:A4:44:SER:H	1.55	0.72
2:B2:36:THR:H	2:B2:103:THR:HG23	1.55	0.72
12:BC:101:ALA:O	12:BC:105:VAL:HG23	1.89	0.72
32:AW:48:LEU:HD23	32:AW:48:LEU:N	2.04	0.72
25:AP:12:VAL:O	25:AP:14:PRO:HD3	1.90	0.72
10:AA:843:A:H2'	10:AA:844:G:H8	1.53	0.72
5:A5:86:VAL:HG13	10:AA:1750:A:N1	2.04	0.72
27:BR:94:SER:HB3	27:BR:124:VAL:CG2	2.18	0.72
10:BA:192:C:O2'	10:BA:193:C:H5'	1.90	0.72
20:BK:121:ARG:HG3	20:BK:122:SER:N	2.04	0.72
10:BA:622:G:H5'	24:BO:122:SER:OG	1.90	0.72
10:AA:3:C:H5'	10:AA:3:C:H6	1.54	0.72
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:BA:63:U:H3'	10:BA:64:U:H5''	1.71	0.72
10:AA:1186:G:H1	10:AA:1420:U:H3	1.37	0.72
20:BK:45:THR:CG2	20:BK:49:GLY:HA2	2.20	0.72
31:AV:57:LEU:O	31:AV:61:ILE:HG13	1.90	0.72
28:BS:16:LYS:HG3	28:BS:16:LYS:O	1.90	0.72
28:BS:55:SER:HB2	28:BS:58:TYR:HD2	1.50	0.72
10:AA:1001:A:HO2'	10:AA:1002:U:H6	1.32	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:62:VAL:HG12	20:BK:63:LYS:N	2.03	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
7:A7:69:ASN:HD21	7:A7:71:GLU:HB2	1.55	0.72
10:BA:271:U:H4'	10:BA:272:U:H5'	1.70	0.72
10:BA:1369:A:H2'	10:BA:1370:U:C6	2.24	0.72
31:BV:4:VAL:C	31:BV:5:ARG:HD3	2.09	0.72
10:BA:84:U:H2'	10:BA:85:G:H5''	1.70	0.72
14:AE:224:ARG:HD2	35:AZ:40:PHE:HZ	1.55	0.72
11:BB:22:THR:HG22	11:BB:23:ILE:N	2.04	0.72
10:AA:235:A:H5''	10:AA:236:U:O5'	1.89	0.72
5:B5:15:ARG:HD3	5:B5:15:ARG:N	2.05	0.72
13:BD:158:PHE:CD1	13:BD:158:PHE:N	2.56	0.72
18:BI:101:GLU:OE2	18:BI:104:LYS:HD3	1.89	0.72
32:AW:37:LYS:HD2	32:AW:40:GLU:OE1	1.90	0.72
10:AA:1143:A:H2'	10:AA:1144:A:C8	2.25	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BZ:37:LYS:HG2	35:BZ:38:LEU:N	2.04	0.72
11:BB:156:VAL:HG23	35:BZ:80:HIS:HB2	1.69	0.72
11:BB:75:ARG:HH12	11:BB:162:ARG:HA	1.54	0.72
10:AA:1541:A:H1'	22:AM:147:VAL:HG21	1.72	0.71
10:AA:141:A:C2	10:AA:162:A:N6	2.57	0.71
10:BA:1718:A:H3'	10:BA:1719:A:H5'	1.71	0.71
10:BA:1753:A:H8	10:BA:1753:A:OP1	1.72	0.71
20:AK:121:ARG:HG3	20:AK:122:SER:N	2.04	0.71
10:BA:631:C:H5'	10:BA:631:C:H6	1.55	0.71
9:A9:150:UNK:C	9:A9:153:UNK:HG3	2.20	0.71
17:BH:46:TYR:O	17:BH:66:ILE:HD12	1.90	0.71
21:BL:69:LYS:NZ	21:BL:69:LYS:HB3	2.04	0.71
33:BX:63:HIS:C	33:BX:65:GLY:H	1.93	0.71
34:BY:64:LYS:NZ	34:BY:82:SER:H	1.88	0.71
10:BA:215:A:O2'	10:BA:216:G:H5'	1.89	0.71
10:BA:1165:A:H4'	10:BA:1166:A:OP2	1.90	0.71
15:BF:86:SER:HB2	15:BF:93:VAL:HG22	1.71	0.71
21:AL:19:ARG:O	21:AL:23:ARG:HB2	1.90	0.71
10:AA:1555:A:H62	16:AG:52:GLN:HG2	1.54	0.71
10:AA:45:A:N6	10:AA:425:A:H4'	2.05	0.71
10:BA:80:A:H2'	10:BA:81:A:O4'	1.90	0.71
10:AA:1252:C:H5'	23:AN:43:ARG:HH12	1.55	0.71
10:AA:1172:G:O2'	10:AA:1173:G:OP1	2.06	0.71
1:A1:19:GLY:O	1:A1:21:ARG:N	2.22	0.71
4:A4:73:ALA:HB2	20:AK:128:ARG:NH2	2.04	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
33:AX:63:HIS:C	33:AX:65:GLY:H	1.93	0.71
3:A3:63:ILE:HD11	3:A3:94:PHE:CD2	2.25	0.71
7:B7:56:GLU:O	7:B7:66:TYR:HA	1.90	0.71
11:AB:51:GLN:HE22	35:AZ:95:ILE:H	1.38	0.71
28:AS:83:THR:HG23	28:AS:85:TYR:H	1.55	0.71
10:BA:1608:C:C4'	10:BA:1609:C:H5''	2.13	0.71
31:BV:57:LEU:O	31:BV:61:ILE:HG13	1.90	0.71
10:BA:45:A:N6	10:BA:425:A:H4'	2.04	0.71
8:B8:43:VAL:HG11	22:BM:57:ARG:HD2	1.71	0.71
10:AA:1430:C:H3'	22:AM:138:THR:CG2	2.20	0.71
2:B2:194:LYS:HE2	26:BQ:4:GLN:CD	2.10	0.71
34:AY:132:LYS:NZ	34:AY:163:ARG:HB3	2.04	0.71
27:BR:237:LEU:HD23	27:BR:237:LEU:C	2.10	0.71
32:BW:108:LYS:HG3	32:BW:110:ARG:HH21	1.54	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:BM:132:LYS:NZ	22:BM:135:GLY:HA3	2.04	0.71
2:B2:84:THR:HG22	2:B2:85:LYS:H	1.54	0.71
19:AJ:50:VAL:HG22	19:AJ:91:LEU:CD2	2.19	0.71
10:BA:481:A:H3'	10:BA:482:A:H5''	1.70	0.71
34:BY:7:TYR:HB3	34:BY:12:ALA:HB3	1.72	0.71
28:BS:98:ILE:HG13	28:BS:98:ILE:O	1.90	0.71
14:BE:107:ASP:C	14:BE:109:ASN:H	1.94	0.71
10:AA:622:G:H5'	24:AO:122:SER:OG	1.91	0.71
11:AB:109:THR:HG22	11:AB:111:LYS:H	1.54	0.71
10:AA:5:U:O2'	10:AA:546:G:H4'	1.90	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
10:AA:1025:G:H1	10:AA:1043:U:H3	1.38	0.71
17:AH:46:TYR:O	17:AH:66:ILE:HD12	1.91	0.71
1:A1:18:THR:HG22	1:A1:19:GLY:N	2.03	0.71
10:AA:391:A:C5'	10:AA:392:A:H5'	2.20	0.71
2:A2:141:LYS:HZ2	2:A2:143:LYS:HE2	1.55	0.71
7:B7:69:ASN:HD21	7:B7:71:GLU:HB2	1.56	0.71
3:A3:196:LYS:HD3	3:A3:196:LYS:O	1.91	0.71
14:AE:66:PRO:HB2	14:AE:68:ASN:ND2	2.04	0.71
13:BD:93:LEU:HD23	13:BD:96:VAL:HG21	1.73	0.71
10:AA:1340:G:C2'	10:AA:1341:U:H5''	2.21	0.71
5:A5:77:ILE:HD13	10:AA:1746:G:H1	1.53	0.71
8:A8:32:LYS:HB3	15:BF:41:GLU:O	1.89	0.71
10:AA:1430:C:O2'	10:AA:1431:A:H5'	1.90	0.71
2:A2:29:LYS:NZ	10:AA:391:A:H62	1.89	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
6:A6:42:GLN:NE2	6:A6:55:GLU:H	1.88	0.71
10:AA:512:C:C3'	10:AA:513:A:H5''	2.20	0.71
20:BK:75:MET:HG2	20:BK:121:ARG:NH2	2.05	0.71
16:BG:24:ILE:HD11	16:BG:36:THR:OG1	1.91	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
4:A4:64:LYS:HG2	4:A4:65:GLY:N	2.05	0.71
10:BA:1034:A:O2'	10:BA:1035:A:OP2	2.06	0.71
29:BT:15:ALA:HA	29:BT:18:PHE:HB3	1.72	0.71
9:B9:150:UNK:CA	9:B9:153:UNK:HG3	2.21	0.71
10:AA:1200:G:H8	10:AA:1200:G:O5'	1.74	0.71
7:B7:13:TYR:HD2	7:B7:76:LEU:HD22	1.56	0.71
27:AR:186:TYR:HB3	27:AR:206:ARG:NH1	2.05	0.71
10:AA:684:A:H2'	10:AA:685:A:C4	2.25	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:AS:46:THR:HG23	28:AS:89:ILE:CD1	2.21	0.71
19:BJ:50:VAL:HG22	19:BJ:91:LEU:CD2	2.21	0.71
13:AD:28:MET:HE1	33:AX:37:LYS:HD2	1.73	0.71
24:BO:28:LEU:HD12	24:BO:29:HIS:H	1.56	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
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
26:BQ:35:LYS:HG2	26:BQ:36:ASN:H	1.54	0.71
14:BE:83:GLN:OE1	14:BE:208:ARG:HB3	1.90	0.71
10:AA:840:A:H2'	10:AA:941:A:H61	1.55	0.71
16:BG:83:LEU:HD23	16:BG:84:CYS:N	2.05	0.71
10:AA:1718:A:H3'	10:AA:1719:A:H5'	1.72	0.71
27:AR:181:GLN:HB3	27:AR:182:PRO:HD2	1.73	0.71
14:AE:228:PRO:HB3	17:AH:68:ARG:NH2	2.04	0.71
3:A3:103:LYS:HA	3:A3:113:ARG:HH12	1.55	0.71
10:AA:246:U:O4	26:AQ:14:GLY:HA3	1.91	0.71
34:AY:87:ARG:O	34:AY:88:ARG:HB3	1.89	0.71
3:A3:63:ILE:HG13	3:A3:63:ILE:O	1.90	0.71
14:BE:45:LEU:HD12	14:BE:48:ILE:HD12	1.72	0.71
8:A8:27:LYS:HE2	10:AA:1509:U:H5	1.55	0.71
34:AY:136:LYS:O	34:AY:179:ILE:HG23	1.90	0.71
10:BA:1555:A:O2'	10:BA:1556:G:O5'	2.06	0.71
20:AK:75:MET:HG2	20:AK:121:ARG:NH2	2.04	0.71
9:B9:146:UNK:HA	9:B9:149:UNK:CG	2.20	0.71
20:AK:55:ARG:HG2	20:AK:55:ARG:O	1.88	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
10:AA:145:G:O2'	34:AY:13:GLN:HG3	1.91	0.71
27:AR:77:HIS:CD2	27:AR:96:TRP:HB2	2.26	0.71
2:B2:105:VAL:HG13	10:BA:320:G:H4'	1.72	0.71
32:AW:92:VAL:HG23	32:AW:101:PHE:HB2	1.72	0.71
27:AR:275:ASP:HB3	27:AR:311:GLN:HG2	1.73	0.71
10:BA:271:U:H4'	10:BA:272:U:OP2	1.90	0.71
35:BZ:34:TRP:O	35:BZ:35:SER:HB3	1.89	0.71
10:AA:107:U:O2'	10:AA:108:A:H5'	1.91	0.71
12:BC:167:LYS:O	12:BC:171:ILE:HB	1.90	0.71
10:AA:585:A:H2'	10:AA:586:A:C8	2.26	0.71
27:AR:296:ALA:HB1	27:AR:310:PRO:HG2	1.72	0.71
10:BA:1575:U:H2'	10:BA:1576:U:C6	2.25	0.71
10:AA:147:G:H5'	34:AY:15:CYS:SG	2.30	0.71
15:AF:86:SER:HB2	15:AF:93:VAL:HG22	1.71	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BY:207:ALA:O	34:BY:211:GLU:HB2	1.90	0.71
22:AM:26:ARG:O	22:AM:57:ARG:HD3	1.91	0.71
19:BJ:49:GLU:CB	19:BJ:92:THR:HB	2.17	0.71
10:BA:669:G:C3'	10:BA:670:G:H5''	2.21	0.71
20:AK:21:VAL:HG12	20:AK:22:GLY:N	2.04	0.71
10:AA:797:A:N6	10:AA:836:G:N7	2.36	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:1469:U:OP1	29:BT:75:GLY:HA3	1.91	0.71
10:BA:91:G:OP2	32:BW:3:ARG:CZ	2.39	0.71
10:AA:785:G:N3	17:AH:107:THR:HG21	2.05	0.71
32:BW:159:GLY:O	32:BW:177:LEU:HD22	1.91	0.71
13:AD:100:THR:CG2	13:AD:102:HIS:HB3	2.21	0.71
24:BO:49:PRO:HG3	24:BO:74:LEU:HD23	1.72	0.71
29:BT:99:CYS:SG	29:BT:100:HIS:N	2.63	0.71
10:AA:63:U:H5'	10:AA:64:U:OP1	1.89	0.71
10:AA:80:A:H2'	10:AA:81:A:O4'	1.90	0.71
20:AK:148:GLY:O	20:AK:150:ARG:HG3	1.91	0.71
10:AA:669:G:C3'	10:AA:670:G:H5''	2.21	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
9:A9:150:UNK:CA	9:A9:153:UNK:HG3	2.20	0.71
27:AR:100:LEU:HD21	27:AR:135:SER:HB3	1.73	0.71
10:AA:328:G:H2'	26:AQ:132:LYS:HE2	1.73	0.71
10:AA:681:G:H1	10:AA:719:G:N2	1.88	0.71
34:AY:165:PHE:CE1	34:AY:173:ARG:HB2	2.25	0.71
10:AA:1137:A:H2'	10:AA:1138:A:H8	1.54	0.71
27:AR:275:ASP:HA	27:AR:311:GLN:HB3	1.73	0.71
1:B1:17:LYS:HE3	10:BA:1588:G:H4'	1.72	0.71
11:BB:27:ASN:O	11:BB:30:LYS:HB2	1.90	0.71
14:BE:166:VAL:C	14:BE:167:ARG:HD2	2.10	0.70
8:A8:72:LYS:HB2	8:A8:73:LEU:HD23	1.71	0.70
22:AM:146:VAL:HG12	22:AM:147:VAL:N	2.02	0.70
25:BP:21:LEU:HD23	25:BP:21:LEU:N	2.06	0.70
18:AI:41:ILE:CD1	18:AI:50:ILE:HD12	2.21	0.70
10:BA:1170:G:OP1	19:BJ:66:ARG:NH1	2.24	0.70
6:A6:65:THR:HG22	6:A6:66:GLY:N	2.05	0.70
10:BA:538:A:O2'	10:BA:539:U:C6	2.43	0.70
8:A8:63:VAL:HG22	16:AG:97:LEU:CB	2.21	0.70
11:BB:79:GLN:O	11:BB:83:ILE:HG13	1.90	0.70
2:A2:138:LEU:HD11	2:A2:153:ARG:NH1	2.06	0.70
10:AA:1165:A:H4'	10:AA:1166:A:OP2	1.90	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1188:A:H2'	10:AA:1415:A:N1	2.06	0.70
32:BW:37:LYS:HD2	32:BW:40:GLU:OE1	1.91	0.70
10:AA:23:A:OP1	13:AD:14:THR:HG21	1.91	0.70
18:BI:18:ALA:HA	18:BI:73:GLY:CA	2.20	0.70
5:A5:58:ALA:HB2	20:AK:125:LYS:HB3	1.71	0.70
27:AR:57:TYR:HB2	27:AR:65:PHE:O	1.91	0.70
10:AA:292:G:H3'	10:AA:293:U:H6	1.57	0.70
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
1:B1:24:ILE:HG23	1:B1:45:VAL:O	1.91	0.70
10:AA:1381:A:H2'	10:AA:1382:A:O4'	1.91	0.70
30:BU:54:ASN:O	30:BU:58:LEU:HG	1.91	0.70
10:BA:440:C:O2'	10:BA:441:C:H5'	1.92	0.70
10:BA:1716:A:H2'	10:BA:1717:C:H5''	1.73	0.70
5:B5:89:ARG:HD3	10:BA:1750:A:N6	2.05	0.70
10:BA:445:U:H2'	10:BA:445:U:O2	1.91	0.70
10:AA:327:G:C2'	10:AA:328:G:H5''	2.20	0.70
34:AY:132:LYS:CE	34:AY:163:ARG:HD3	2.21	0.70
32:BW:126:LEU:HD22	32:BW:143:THR:HG21	1.74	0.70
10:AA:191:A:H2'	10:AA:192:C:C6	2.25	0.70
4:A4:220:LYS:NZ	10:AA:864:U:OP1	2.24	0.70
6:B6:65:THR:HG22	6:B6:66:GLY:N	2.06	0.70
27:AR:274:THR:HG22	27:AR:277:GLY:O	1.91	0.70
10:BA:760:G:N2	10:BA:766:G:N2	2.40	0.70
10:BA:1263:G:N2	10:BA:1296:G:H1	1.88	0.70
9:B9:150:UNK:O	9:B9:153:UNK:HG3	1.92	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
27:AR:180:VAL:CG1	27:AR:181:GLN:H	1.97	0.70
21:AL:69:LYS:NZ	21:AL:92:LEU:HD23	2.06	0.70
5:B5:57:LEU:HD12	5:B5:58:ALA:H	1.57	0.70
12:AC:205:VAL:CG1	12:AC:206:LYS:N	2.54	0.70
31:BV:105:MET:HE1	31:BV:109:LEU:HD22	1.72	0.70
3:A3:20:GLY:O	3:A3:24:VAL:HG23	1.91	0.70
35:AZ:11:LYS:HB3	35:AZ:12:PRO:HD2	1.73	0.70
32:BW:62:THR:O	32:BW:66:ASN:HB2	1.91	0.70
2:B2:138:LEU:HD11	2:B2:153:ARG:NH1	2.05	0.70
15:AF:51:TRP:NE1	15:AF:84:PHE:CE2	2.54	0.70
22:AM:35:ILE:HD12	22:AM:38:ILE:HD12	1.73	0.70
16:AG:35:CYS:H	16:AG:63:ILE:HD11	1.56	0.70
13:BD:71:PHE:CE2	32:BW:250:ILE:HG21	2.26	0.70
27:BR:181:GLN:HB3	27:BR:182:PRO:HD2	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:141:A:C2	10:BA:162:A:N6	2.60	0.70
10:AA:1418:C:H5'	10:AA:1418:C:C6	2.27	0.70
9:A9:126:ALA:HB2	10:AA:1224:C:O4'	1.91	0.70
10:BA:795:A:H62	10:BA:836:G:H2'	1.56	0.70
1:B1:7:THR:HG23	1:B1:33:SER:HB3	1.73	0.70
34:AY:5:ILE:HD11	34:AY:111:LEU:HD12	1.73	0.70
13:BD:37:LYS:HZ3	13:BD:126:ARG:HD2	1.55	0.70
14:BE:227:THR:HB	14:BE:228:PRO:HD2	1.72	0.70
27:BR:57:TYR:HB2	27:BR:65:PHE:O	1.91	0.70
10:BA:292:G:H3'	10:BA:293:U:H6	1.56	0.70
12:AC:101:ALA:O	12:AC:105:VAL:HG23	1.92	0.70
8:A8:27:LYS:HE2	10:AA:1509:U:C5	2.26	0.70
10:AA:440:C:O2'	10:AA:441:C:H5'	1.91	0.70
2:A2:154:THR:C	2:A2:156:ALA:H	1.92	0.70
7:B7:38:PRO:HB2	7:B7:41:HIS:CD2	2.26	0.70
10:AA:605:U:H2'	10:AA:605:U:O2	1.91	0.70
10:AA:1555:A:N6	16:AG:52:GLN:HG2	2.07	0.70
10:AA:84:U:C2'	10:AA:85:G:H5''	2.21	0.70
10:AA:840:A:H2'	10:AA:941:A:N6	2.07	0.70
10:BA:59:C:C3'	10:BA:60:C:H5''	2.21	0.70
8:B8:45:ILE:HD12	22:BM:1:MET:HE3	1.73	0.70
34:BY:5:ILE:HD11	34:BY:111:LEU:HD12	1.71	0.70
20:BK:21:VAL:HG12	20:BK:22:GLY:N	2.05	0.70
10:BA:1229:U:O2	10:BA:1230:U:H5'	1.92	0.70
27:BR:197:LYS:HG2	27:BR:208:THR:HB	1.73	0.70
26:BQ:32:ARG:HH21	26:BQ:50:GLY:C	1.94	0.70
8:A8:58:SER:HB2	8:A8:113:GLU:HB2	1.74	0.70
11:BB:118:LEU:HD12	11:BB:119:ILE:H	1.55	0.70
9:B9:81:THR:CG2	9:B9:83:LYS:HG2	2.21	0.70
32:AW:31:PRO:HB2	32:AW:38:LEU:HD23	1.74	0.70
10:BA:1605:A:O2'	10:BA:1606:C:OP2	2.08	0.70
10:BA:89:A:C4	10:BA:390:A:H2	2.09	0.70
35:AZ:37:LYS:HG2	35:AZ:38:LEU:N	2.06	0.70
12:BC:96:PHE:HB3	12:BC:132:ASP:OD1	1.91	0.70
11:AB:164:THR:HG21	11:AB:200:HIS:H	1.56	0.70
10:BA:3:C:H6	10:BA:3:C:H5'	1.56	0.70
16:AG:57:ARG:HH11	16:AG:57:ARG:CA	1.94	0.70
10:AA:59:C:C3'	10:AA:60:C:H5''	2.21	0.70
34:AY:181:ARG:HH11	34:AY:181:ARG:HG2	1.56	0.70
10:BA:1582:G:HO2'	10:BA:1583:A:H8	1.39	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:584:C:OP1	33:BX:44:ARG:NH2	2.24	0.70
14:AE:231:TRP:NE1	17:AH:68:ARG:CZ	2.49	0.70
10:BA:158:G:H5''	34:BY:112:GLN:HE21	1.57	0.70
11:AB:25:LEU:HD11	11:AB:42:HIS:CE1	2.26	0.70
26:AQ:32:ARG:HH21	26:AQ:50:GLY:C	1.95	0.70
32:AW:193:ARG:HH12	32:AW:246:VAL:HG13	1.56	0.70
2:B2:23:LYS:HE3	10:BA:382:A:OP2	1.90	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
10:AA:271:U:H4'	10:AA:272:U:OP2	1.89	0.70
18:BI:23:SER:OG	18:BI:68:ARG:HG3	1.92	0.70
12:BC:82:TYR:O	12:BC:84:ASP:N	2.25	0.70
26:AQ:39:LEU:HA	32:AW:204:GLN:NE2	2.06	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
10:AA:632:U:H4'	10:AA:633:U:OP1	1.91	0.70
10:AA:794:A:C2	10:AA:836:G:H1'	2.27	0.70
30:BU:70:TYR:CE2	30:BU:126:ALA:HB3	2.26	0.70
3:B3:127:LEU:O	3:B3:131:LEU:HG	1.92	0.70
32:BW:193:ARG:HH12	32:BW:246:VAL:HG13	1.57	0.70
10:AA:1015:C:H5'	10:AA:1016:U:OP2	1.92	0.70
10:BA:513:A:H8	10:BA:513:A:H5'	1.57	0.70
27:BR:17:LEU:HB3	27:BR:54:TRP:CZ3	2.26	0.70
9:A9:109:VAL:HG21	30:AU:61:ALA:HB1	1.72	0.70
9:B9:108:LYS:HA	30:BU:65:LYS:HE3	1.73	0.70
24:BO:101:ARG:HH12	24:BO:145:ALA:HA	1.56	0.70
14:AE:101:GLY:O	14:AE:116:TRP:HA	1.92	0.70
21:BL:19:ARG:O	21:BL:23:ARG:HB2	1.92	0.70
16:AG:45:PRO:CG	16:AG:85:ILE:HG23	2.22	0.70
10:AA:162:A:H5''	34:AY:136:LYS:HB3	1.72	0.70
25:AP:21:LEU:N	25:AP:21:LEU:HD23	2.06	0.70
10:BA:1290:G:O2'	10:BA:1291:U:H5'	1.92	0.70
31:AV:17:ILE:HG23	31:AV:58:MET:HE3	1.74	0.70
10:BA:833:A:H2'	10:BA:834:A:OP1	1.92	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
34:AY:98:ARG:HG2	34:AY:106:MET:HE1	1.74	0.70
7:A7:6:LYS:O	7:A7:10:ILE:HG13	1.92	0.70
14:AE:45:LEU:HD12	14:AE:48:ILE:HD12	1.74	0.70
34:BY:12:ALA:HB1	34:BY:124:LEU:HA	1.74	0.70
18:BI:7:GLN:HG3	18:BI:98:TYR:CE2	2.26	0.70
11:BB:191:TRP:NE1	11:BB:193:VAL:HB	2.07	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:970:A:H2'	10:AA:971:A:H5'	1.74	0.70
32:BW:35:PRO:HD2	32:BW:85:PRO:HG2	1.74	0.70
27:AR:174:MET:CE	27:AR:178:ASN:HB2	2.22	0.70
10:BA:8:U:O4	10:BA:15:U:O4	2.10	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
10:BA:1366:G:O2'	10:BA:1367:C:H5'	1.92	0.70
10:BA:63:U:H5'	10:BA:64:U:OP1	1.92	0.70
22:BM:26:ARG:O	22:BM:57:ARG:HD3	1.91	0.70
7:B7:16:LEU:HD13	7:B7:76:LEU:HD11	1.73	0.70
27:AR:267:LEU:CD1	27:AR:267:LEU:H	2.05	0.70
20:AK:138:ASP:OD1	20:AK:139:SER:N	2.25	0.70
4:A4:108:ILE:HG22	4:A4:109:THR:N	2.06	0.70
12:AC:196:GLU:CG	12:AC:203:PHE:HB2	2.22	0.70
12:BC:205:VAL:CG1	12:BC:206:LYS:N	2.54	0.70
25:AP:85:PRO:HD2	25:AP:88:ARG:HD2	1.72	0.70
32:AW:123:TYR:HA	32:AW:164:TYR:O	1.91	0.70
10:BA:1494:U:O2	10:BA:1494:U:H2'	1.91	0.70
29:AT:9:THR:HG22	29:AT:10:VAL:N	2.06	0.70
10:AA:588:A:H4'	10:AA:589:G:O5'	1.92	0.69
16:AG:158:PHE:CD2	16:AG:159:LYS:HG3	2.27	0.69
23:AN:33:TYR:CD1	23:AN:33:TYR:O	2.44	0.69
20:BK:148:GLY:O	20:BK:150:ARG:HG3	1.92	0.69
10:AA:938:U:H5'	24:AO:57:ARG:HE	1.57	0.69
10:AA:315:U:O2'	26:AQ:79:MET:HE3	1.91	0.69
10:BA:246:U:O4	26:BQ:14:GLY:HA3	1.92	0.69
10:AA:1137:A:H2'	10:AA:1138:A:C8	2.27	0.69
10:BA:191:A:H2'	10:BA:192:C:C6	2.27	0.69
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
10:AA:1279:U:O2'	10:AA:1280:G:H5'	1.92	0.69
10:AA:867:U:H6	10:AA:867:U:C5'	2.05	0.69
10:BA:866:U:H3	10:BA:902:G:H1	1.39	0.69
8:A8:27:LYS:HG2	10:AA:1509:U:C5	2.27	0.69
10:AA:971:A:H62	10:AA:989:G:H21	1.40	0.69
7:B7:47:ARG:HB2	7:B7:50:LYS:HE2	1.74	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
29:BT:108:LEU:HD13	29:BT:130:ARG:HG3	1.73	0.69
25:AP:27:HIS:HE1	25:AP:67:SER:OG	1.75	0.69
10:AA:1055:G:O2'	10:AA:1056:A:H5'	1.91	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:184:LYS:HG2	4:B4:184:LYS:O	1.92	0.69
31:AV:58:MET:HE1	31:AV:61:ILE:HD12	1.74	0.69
6:B6:33:VAL:HG21	6:B6:44:ILE:HD12	1.74	0.69
12:BC:15:VAL:O	12:BC:19:VAL:HG23	1.92	0.69
27:AR:197:LYS:HG2	27:AR:208:THR:HB	1.75	0.69
27:AR:293:THR:HG21	27:AR:336:PHE:CE2	2.27	0.69
12:BC:196:GLU:CG	12:BC:203:PHE:HB2	2.23	0.69
10:BA:1318:C:O2'	10:BA:1319:U:OP1	2.10	0.69
25:BP:85:PRO:HD2	25:BP:88:ARG:HD2	1.74	0.69
10:BA:512:C:C3'	10:BA:513:A:H5''	2.22	0.69
27:BR:100:LEU:HD21	27:BR:135:SER:HB3	1.73	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
10:AA:1463:U:O2	10:AA:1463:U:H2'	1.91	0.69
26:AQ:44:PRO:HG2	26:AQ:47:ALA:HB2	1.74	0.69
10:BA:1090:G:H1	10:BA:1102:U:H3	1.40	0.69
10:BA:533:G:N7	33:BX:28:ARG:HD2	2.07	0.69
31:BV:58:MET:HE1	31:BV:61:ILE:HD12	1.74	0.69
35:BZ:13:MET:CE	35:BZ:31:LYS:HD3	2.23	0.69
10:AA:1001:A:O2'	10:AA:1002:U:H6	1.76	0.69
10:BA:494:A:N1	33:BX:48:HIS:HB3	2.06	0.69
28:AS:97:GLY:O	28:AS:112:VAL:HG23	1.93	0.69
5:A5:15:ARG:N	5:A5:15:ARG:HD3	2.05	0.69
32:BW:93:ARG:HA	32:BW:99:GLN:O	1.92	0.69
10:AA:158:G:H5''	34:AY:112:GLN:NE2	2.06	0.69
32:AW:206:SER:O	32:AW:207:PHE:HB2	1.92	0.69
35:BZ:83:LEU:O	35:BZ:87:LEU:HG	1.91	0.69
3:B3:20:GLY:O	3:B3:24:VAL:HG23	1.93	0.69
10:AA:1421:G:H4'	23:AN:6:TRP:HE3	1.57	0.69
4:A4:144:ALA:HB1	4:A4:213:LEU:HD13	1.74	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:135:A:O2'	10:BA:136:U:OP2	2.08	0.69
28:BS:33:LEU:HD11	28:BS:59:ALA:HA	1.74	0.69
27:BR:186:TYR:HB3	27:BR:206:ARG:NH1	2.07	0.69
32:BW:47:LEU:HD11	32:BW:113:LEU:HD11	1.74	0.69
10:BA:734:U:H2'	10:BA:735:G:H8	1.57	0.69
10:BA:225:C:H6	10:BA:225:C:H5'	1.57	0.69
22:BM:16:ARG:HH22	22:BM:20:THR:HA	1.57	0.69
4:A4:184:LYS:HG2	4:A4:184:LYS:O	1.93	0.69
10:BA:23:A:OP1	13:BD:14:THR:HG21	1.91	0.69
10:BA:1143:A:H2'	10:BA:1144:A:C8	2.27	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:207:THR:CG2	14:AE:210:ASN:HB2	2.22	0.69
14:AE:163:SER:HB3	14:AE:210:ASN:ND2	2.05	0.69
10:AA:1511:A:C5'	22:AM:40:ARG:HH12	1.97	0.69
10:BA:765:A:O2'	10:BA:766:G:OP2	2.09	0.69
31:AV:61:ILE:C	31:AV:63:LYS:H	1.94	0.69
8:B8:69:VAL:HG11	8:B8:80:ALA:HB1	1.74	0.69
25:AP:2:THR:HG22	25:AP:3:ILE:N	2.00	0.69
10:BA:1002:U:O2'	10:BA:1003:A:H5'	1.93	0.69
10:BA:1200:G:O5'	10:BA:1200:G:H8	1.75	0.69
9:B9:138:HIS:NE2	10:BA:1206:A:H4'	2.07	0.69
10:AA:336:U:O2'	10:AA:337:G:H8	1.72	0.69
11:AB:60:ILE:O	11:AB:63:VAL:HG22	1.93	0.69
10:AA:1263:G:H21	10:AA:1296:G:H22	1.39	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
10:AA:1290:G:O2'	10:AA:1291:U:H5'	1.93	0.69
27:AR:237:LEU:C	27:AR:237:LEU:HD23	2.13	0.69
32:AW:163:LYS:HB2	32:AW:237:TRP:HZ3	1.58	0.69
11:AB:75:ARG:HH12	11:AB:162:ARG:HA	1.54	0.69
11:AB:10:ILE:O	11:AB:14:LEU:HB2	1.92	0.69
16:AG:44:VAL:HG12	16:AG:45:PRO:HD2	1.74	0.69
25:AP:42:LEU:HD23	25:AP:53:VAL:HG11	1.74	0.69
14:BE:224:ARG:HD2	35:BZ:40:PHE:HZ	1.55	0.69
20:AK:46:ASP:OD2	20:AK:48:SER:OG	2.10	0.69
10:AA:1573:G:N2	29:AT:91:ASN:HB3	2.08	0.69
20:BK:56:VAL:HG11	20:BK:77:ALA:HA	1.73	0.69
17:AH:49:GLU:OE1	35:AZ:1:MET:HG3	1.92	0.69
27:BR:107:THR:O	27:BR:109:THR:N	2.25	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
22:BM:125:LEU:O	22:BM:129:TRP:CD1	2.41	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
34:BY:87:ARG:O	34:BY:88:ARG:HB3	1.92	0.69
27:AR:214:SER:HB3	27:AR:233:LYS:HB2	1.74	0.69
32:BW:37:LYS:HG3	32:BW:40:GLU:HB2	1.74	0.69
10:BA:1406:G:H4'	10:BA:1407:A:O5'	1.92	0.69
24:AO:55:ILE:HG23	24:AO:59:GLN:HG3	1.74	0.69
13:AD:93:LEU:HD23	13:AD:96:VAL:HG21	1.74	0.69
10:AA:1442:A:C8	10:AA:1512:G:H1'	2.28	0.69
6:A6:67:GLY:HA2	10:AA:935:G:O2'	1.92	0.69
10:BA:75:C:H6	10:BA:75:C:O5'	1.75	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:112:ALA:HB2	21:BL:119:VAL:O	1.92	0.69
10:AA:1366:G:O2'	10:AA:1367:C:H5'	1.92	0.69
10:BA:1514:G:C5'	29:BT:90:GLY:HA2	2.22	0.69
15:BF:73:LEU:N	15:BF:73:LEU:HD23	2.07	0.69
11:AB:5:ARG:NH1	11:AB:5:ARG:HA	2.03	0.69
10:AA:1174:A:C2'	10:AA:1175:A:H5'	2.22	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
28:AS:91:ILE:HG23	28:AS:92:PRO:HD2	1.74	0.69
2:A2:95:ASN:HD22	10:AA:332:A:H4'	1.57	0.69
10:AA:1033:A:O2'	10:AA:1034:A:H5'	1.92	0.69
8:A8:63:VAL:HG22	16:AG:97:LEU:HB3	1.75	0.69
18:AI:7:GLN:HG3	18:AI:98:TYR:CE2	2.27	0.69
22:AM:132:LYS:NZ	22:AM:135:GLY:HA3	2.08	0.69
4:A4:121:GLN:NE2	4:A4:145:PHE:HD2	1.90	0.69
10:AA:533:G:N2	10:AA:535:A:N1	2.36	0.69
10:AA:1495:U:HO2'	10:AA:1496:A:C5'	2.05	0.69
10:AA:84:U:C2'	10:AA:85:G:C5'	2.71	0.69
10:BA:770:G:H2'	10:BA:771:A:H8	1.50	0.69
10:BA:1555:A:N6	16:BG:52:GLN:HG2	2.08	0.69
10:BA:1580:U:H5''	18:BI:74:SER:HB2	1.75	0.69
10:BA:1278:C:H2'	10:BA:1278:C:O2	1.89	0.69
10:BA:1566:G:O2'	23:BN:29:LEU:HD11	1.91	0.69
16:BG:158:PHE:HD2	16:BG:159:LYS:HG3	1.55	0.69
14:AE:230:PHE:HB3	35:AZ:13:MET:HE2	1.74	0.69
10:AA:1178:U:O3'	23:AN:26:ARG:HD2	1.93	0.69
4:B4:26:LEU:HD12	20:BK:84:ARG:NH2	2.07	0.69
20:BK:84:ARG:O	20:BK:84:ARG:HD2	1.92	0.69
27:AR:92:ILE:HB	27:AR:124:VAL:HG11	1.75	0.69
10:BA:618:G:O2'	10:BA:619:C:H5'	1.93	0.69
26:BQ:21:LYS:HE3	26:BQ:31:VAL:CG2	2.21	0.69
10:BA:309:U:H2'	10:BA:310:C:C5'	2.20	0.69
10:AA:225:C:H6	10:AA:225:C:H5'	1.58	0.69
8:B8:58:SER:HB2	8:B8:113:GLU:HB2	1.74	0.69
11:AB:98:ARG:NH1	11:AB:101:PRO:HD2	2.08	0.69
2:B2:87:LEU:CD2	2:B2:171:ARG:HH11	2.05	0.69
10:BA:90:U:OP1	32:BW:3:ARG:HB2	1.91	0.69
22:AM:72:LEU:HA	22:AM:79:HIS:NE2	2.07	0.69
11:AB:45:ASN:HD21	31:AV:109:LEU:CD1	2.06	0.69
14:BE:101:GLY:O	14:BE:116:TRP:HA	1.92	0.69
30:AU:39:LYS:HE3	30:AU:66:ASN:O	1.92	0.69
11:BB:51:GLN:HE22	35:BZ:95:ILE:H	1.41	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:63:ASP:OD1	13:AD:64:PRO:HD2	1.92	0.69
34:AY:207:ALA:O	34:AY:211:GLU:HB2	1.91	0.69
29:BT:25:HIS:HA	29:BT:28:LYS:HE2	1.73	0.69
1:A1:24:ILE:HG23	1:A1:45:VAL:O	1.93	0.69
14:BE:207:THR:CG2	14:BE:210:ASN:HB2	2.23	0.69
10:BA:73:A:O2'	10:BA:74:A:OP1	2.11	0.69
22:BM:61:LEU:HD22	22:BM:65:GLN:NE2	2.07	0.69
10:AA:895:U:O2'	20:AK:43:HIS:HD2	1.76	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
35:AZ:13:MET:CE	35:AZ:31:LYS:HD3	2.22	0.69
10:BA:632:U:H4'	10:BA:633:U:OP1	1.93	0.69
10:BA:955:A:H2'	10:BA:956:A:C5'	2.23	0.69
28:AS:14:ARG:HB3	28:AS:114:PHE:CD2	2.28	0.69
2:A2:14:THR:HG23	10:AA:339:C:H1'	1.74	0.69
10:BA:1551:U:H1'	18:BI:141:GLN:HE22	1.57	0.69
32:BW:43:PRO:HG2	32:BW:46:VAL:HG23	1.75	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
7:A7:56:GLU:O	7:A7:66:TYR:HA	1.92	0.69
10:AA:147:G:C5'	34:AY:15:CYS:SG	2.81	0.69
12:BC:84:ASP:HB3	12:BC:86:GLN:HG3	1.75	0.69
10:AA:1406:G:H4'	10:AA:1407:A:O5'	1.92	0.69
7:B7:99:PHE:CZ	12:BC:69:HIS:NE2	2.61	0.69
10:AA:721:A:H2'	10:AA:722:A:C8	2.28	0.69
10:AA:1582:G:HO2'	10:AA:1583:A:H8	1.41	0.69
10:AA:73:A:O2'	10:AA:74:A:OP1	2.11	0.69
10:AA:937:U:H4'	10:AA:938:U:OP1	1.92	0.69
17:BH:74:VAL:HG12	17:BH:75:ILE:N	2.08	0.69
10:BA:798:G:H2'	10:BA:799:G:H8	1.57	0.69
9:A9:129:TYR:HB2	9:A9:154:UNK:HB2	1.74	0.69
10:AA:1002:U:O2'	10:AA:1003:A:H5'	1.93	0.69
27:BR:267:LEU:CD1	27:BR:267:LEU:H	2.04	0.69
10:AA:494:A:N1	33:AX:48:HIS:HB3	2.08	0.69
10:BA:1137:A:H2'	10:BA:1138:A:H8	1.58	0.69
27:BR:293:THR:HG21	27:BR:336:PHE:CE2	2.27	0.69
7:A7:16:LEU:HD13	7:A7:76:LEU:HD11	1.75	0.69
10:BA:971:A:H62	10:BA:989:G:H21	1.41	0.69
11:AB:191:TRP:NE1	11:AB:193:VAL:HB	2.07	0.69
10:BA:546:G:H2'	10:BA:547:C:C5	2.28	0.68
10:AA:532:G:OP2	10:AA:532:G:N2	2.26	0.68
12:AC:15:VAL:O	12:AC:19:VAL:HG23	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:58:ILE:HG21	21:BL:117:PRO:CG	2.22	0.68
10:AA:1360:U:H2'	31:AV:3:ARG:NH1	2.08	0.68
10:BA:1442:A:C8	10:BA:1512:G:H1'	2.28	0.68
10:BA:623:U:N3	10:BA:948:A:N6	2.41	0.68
27:AR:186:TYR:HB3	27:AR:206:ARG:HH11	1.58	0.68
10:BA:569:C:H5'	10:BA:570:G:OP2	1.92	0.68
32:AW:108:LYS:HG3	32:AW:110:ARG:HH21	1.58	0.68
32:AW:120:GLU:HG2	32:AW:239:GLU:OE2	1.93	0.68
10:BA:231:U:H2'	10:BA:232:G:O4'	1.92	0.68
15:BF:26:ARG:O	15:BF:27:ARG:HG2	1.93	0.68
10:BA:1668:U:H2'	10:BA:1669:G:C8	2.26	0.68
10:BA:89:A:C4	10:BA:390:A:C2	2.82	0.68
10:BA:971:A:H2'	10:BA:972:G:H5'	1.74	0.68
18:BI:120:VAL:HG12	18:BI:121:ALA:H	1.58	0.68
15:BF:49:LYS:HE2	15:BF:53:LYS:NZ	2.08	0.68
10:BA:517:U:H2'	10:BA:519:A:OP2	1.93	0.68
18:AI:57:LEU:HD22	18:AI:107:ILE:HG23	1.75	0.68
8:A8:75:VAL:HG12	8:A8:79:LEU:HB3	1.75	0.68
4:A4:126:ALA:CB	4:A4:175:ASN:HD21	1.98	0.68
10:AA:1746:G:O2'	10:AA:1747:A:C5'	2.40	0.68
10:BA:1373:G:H2'	10:BA:1374:C:H6	1.58	0.68
26:BQ:120:ASP:N	26:BQ:120:ASP:OD1	2.27	0.68
9:A9:150:UNK:O	9:A9:153:UNK:HG3	1.93	0.68
14:BE:228:PRO:CB	17:BH:68:ARG:HH21	2.06	0.68
30:BU:26:SER:HB3	30:BU:31:GLU:HG3	1.75	0.68
27:BR:127:SER:CB	27:BR:132:GLN:HB2	2.23	0.68
2:B2:166:GLN:HE22	2:B2:173:LEU:HD23	1.57	0.68
10:AA:235:A:C2	10:AA:814:A:C5	2.81	0.68
5:A5:15:ARG:CD	5:A5:15:ARG:H	2.06	0.68
10:AA:1263:G:N2	10:AA:1296:G:N2	2.41	0.68
10:AA:27:A:H5'	10:AA:27:A:C8	2.28	0.68
10:BA:295:U:H2'	10:BA:296:C:H6	1.58	0.68
10:AA:863:G:H2'	10:AA:864:U:C6	2.29	0.68
28:BS:100:GLY:HA2	28:BS:108:VAL:O	1.92	0.68
10:AA:1318:C:O2'	10:AA:1319:U:OP1	2.11	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
11:BB:64:GLN:HG2	14:BE:245:SER:OG	1.93	0.68
10:AA:1693:A:H2'	10:AA:1694:U:H6	1.59	0.68
7:A7:42:CYS:O	7:A7:46:VAL:HG23	1.93	0.68
10:BA:721:A:H2'	10:BA:722:A:C8	2.28	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:121:GLN:NE2	4:B4:145:PHE:HD2	1.91	0.68
14:BE:228:PRO:HA	14:BE:231:TRP:HD1	1.56	0.68
10:BA:328:G:H2'	26:BQ:132:LYS:HE2	1.74	0.68
10:AA:236:U:H2'	10:AA:237:U:H5''	1.74	0.68
10:BA:236:U:H2'	10:BA:237:U:H5''	1.74	0.68
15:BF:82:GLN:OE1	15:BF:98:ILE:HD11	1.94	0.68
32:AW:43:PRO:HG2	32:AW:46:VAL:HG23	1.76	0.68
24:AO:68:LEU:C	24:AO:68:LEU:HD23	2.14	0.68
10:BA:962:G:H1	10:BA:995:U:H3	1.40	0.68
27:AR:17:LEU:HB3	27:AR:54:TRP:CZ3	2.29	0.68
10:BA:805:G:H1	10:BA:827:U:H3	1.41	0.68
31:BV:114:ILE:HB	31:BV:115:PRO:CD	2.22	0.68
10:AA:1583:A:H2	10:AA:1584:U:C4	2.11	0.68
6:A6:46:SER:C	6:A6:47:ASN:HD22	1.95	0.68
6:A6:33:VAL:HA	6:A6:76:ALA:O	1.93	0.68
27:BR:180:VAL:CG1	27:BR:181:GLN:H	1.99	0.68
4:B4:139:ARG:NH1	10:BA:862:A:H5'	2.08	0.68
3:B3:141:ILE:O	17:BH:51:GLU:HG3	1.94	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
3:A3:95:THR:HG22	3:A3:96:ALA:H	1.58	0.68
30:BU:56:VAL:CG1	30:BU:60:LYS:HE3	2.22	0.68
10:AA:569:C:H5'	10:AA:570:G:OP2	1.94	0.68
10:BA:718:A:C5	10:BA:719:G:N7	2.61	0.68
11:BB:98:ARG:NH1	11:BB:101:PRO:HD2	2.05	0.68
32:AW:193:ARG:HG2	32:AW:220:PHE:CE2	2.29	0.68
27:BR:194:GLY:HA2	27:BR:216:VAL:HG23	1.75	0.68
18:BI:11:THR:HG21	18:BI:86:ALA:O	1.93	0.68
22:AM:22:ILE:HD11	10:BA:1700:A:C2	2.28	0.68
2:A2:36:THR:H	2:A2:103:THR:HG23	1.57	0.68
14:AE:107:ASP:O	14:AE:109:ASN:N	2.26	0.68
12:AC:82:TYR:O	12:AC:84:ASP:N	2.26	0.68
32:AW:150:ARG:HG2	32:AW:151:PHE:HD1	1.58	0.68
10:AA:1:A:H5'	10:AA:2:A:OP1	1.93	0.68
10:BA:1072:G:N2	17:BH:79:TYR:OH	2.23	0.68
10:AA:46:A:O2'	10:AA:47:C:OP2	2.11	0.68
31:BV:61:ILE:C	31:BV:63:LYS:H	1.94	0.68
9:B9:146:UNK:C	9:B9:149:UNK:HG3	2.24	0.68
4:B4:33:ASP:HB3	4:B4:44:SER:HB2	1.76	0.68
10:AA:1373:G:H2'	10:AA:1374:C:H6	1.57	0.68
10:BA:1241:U:O2'	10:BA:1242:G:OP2	2.10	0.68
10:BA:467:A:H5''	13:BD:130:ARG:HD2	1.76	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BR:77:HIS:CD2	27:BR:78:PHE:H	2.11	0.68
10:BA:422:G:C8	10:BA:422:G:H5'	2.22	0.68
10:BA:748:U:C4	13:BD:149:ARG:HG3	2.29	0.68
4:B4:108:ILE:HG22	4:B4:109:THR:N	2.07	0.68
19:BJ:67:LYS:HD2	19:BJ:76:THR:HG21	1.76	0.68
33:AX:50:LEU:HD23	33:AX:57:ARG:NH1	2.08	0.68
10:AA:971:A:H2'	10:AA:972:G:H5'	1.75	0.68
5:A5:90:CYS:O	5:A5:94:ARG:HG3	1.93	0.68
11:AB:120:VAL:HG22	11:AB:142:ALA:HB2	1.74	0.68
27:BR:200:ASN:O	27:BR:202:ASN:N	2.26	0.68
10:AA:508:A:H5'	10:AA:509:G:OP2	1.93	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:BA:1171:G:H8	23:BN:39:ARG:NH1	1.91	0.68
16:BG:158:PHE:CD2	16:BG:159:LYS:HG3	2.28	0.68
3:B3:103:LYS:HA	3:B3:113:ARG:HH12	1.58	0.68
10:AA:955:A:H2'	10:AA:956:A:C5'	2.24	0.68
10:BA:948:A:O2'	10:BA:949:A:H5'	1.94	0.68
30:AU:94:ILE:HG22	30:AU:95:LYS:H	1.57	0.68
27:AR:267:LEU:O	27:AR:268:GLN:HB2	1.94	0.68
10:AA:477:G:H2'	10:AA:478:G:O4'	1.93	0.68
10:AA:235:A:H2'	10:AA:814:A:H5'	1.76	0.68
14:AE:41:LYS:HB3	14:AE:244:PHE:HE2	1.57	0.68
27:BR:293:THR:HG21	27:BR:336:PHE:HE2	1.59	0.68
2:B2:155:LYS:O	2:B2:155:LYS:HG2	1.92	0.68
11:BB:11:LYS:HE2	31:BV:115:PRO:HB2	1.75	0.68
12:AC:84:ASP:HB3	12:AC:86:GLN:HG3	1.75	0.68
10:BA:738:A:O2'	10:BA:739:A:H5'	1.93	0.68
13:BD:100:THR:CG2	13:BD:102:HIS:HB3	2.23	0.68
25:AP:147:VAL:O	25:AP:148:ALA:HB2	1.94	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
10:AA:469:A:H2'	10:AA:470:G:C8	2.29	0.68
22:AM:61:LEU:HD22	22:AM:65:GLN:NE2	2.08	0.68
10:BA:532:G:N2	10:BA:532:G:OP2	2.26	0.68
25:BP:42:LEU:HD23	25:BP:53:VAL:HG11	1.74	0.68
8:B8:43:VAL:CG2	22:BM:25:LYS:HE3	2.22	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
27:BR:72:LEU:HB3	27:BR:103:TRP:CZ3	2.29	0.68
2:B2:14:THR:HG21	10:BA:344:A:O2'	1.92	0.68
10:BA:68:U:H3	10:BA:77:G:H1	1.40	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:BK:95:ILE:HD11	20:BK:126:ILE:CG2	2.23	0.68
10:BA:1025:G:H1	10:BA:1043:U:H3	1.40	0.68
11:AB:99:TRP:HH2	11:AB:104:LEU:HG	1.59	0.68
10:BA:867:U:C5'	10:BA:867:U:H6	2.06	0.68
35:AZ:78:GLU:O	35:AZ:81:ILE:HG22	1.93	0.68
11:AB:79:GLN:O	11:AB:83:ILE:HG13	1.94	0.68
24:BO:60:HIS:O	24:BO:62:ILE:HG13	1.93	0.68
4:A4:121:GLN:HE21	4:A4:145:PHE:HD2	1.42	0.68
13:BD:53:ARG:HH12	14:BE:176:GLY:HA3	1.57	0.68
10:AA:1008:A:H5''	10:AA:1009:U:OP2	1.93	0.68
22:BM:26:ARG:HG3	22:BM:27:ILE:N	2.05	0.68
25:BP:2:THR:HG22	25:BP:3:ILE:N	2.01	0.68
3:B3:123:TYR:CD2	3:B3:178:THR:HG23	2.29	0.68
27:BR:238:LEU:HD11	27:BR:248:PRO:HG3	1.76	0.68
2:B2:40:THR:HG21	2:B2:87:LEU:HD12	1.76	0.68
4:A4:33:ASP:HB3	4:A4:44:SER:HB2	1.75	0.68
34:AY:64:LYS:HZ3	34:AY:82:SER:H	1.40	0.68
14:BE:49:PHE:HD1	35:BZ:41:SER:HB3	1.59	0.68
11:AB:118:LEU:C	11:AB:119:ILE:HD12	2.14	0.68
5:B5:26:CYS:SG	5:B5:28:ARG:CB	2.82	0.68
18:AI:23:SER:OG	18:AI:68:ARG:HG3	1.94	0.68
6:B6:40:ASN:HB2	6:B6:56:LYS:HD2	1.75	0.68
10:AA:1071:U:H5''	10:AA:1072:G:OP2	1.94	0.68
16:AG:72:MET:O	16:AG:78:ALA:HB1	1.94	0.68
16:BG:72:MET:O	16:BG:78:ALA:HB1	1.94	0.68
10:AA:983:A:H2'	10:AA:984:C:H6	1.59	0.68
6:B6:67:GLY:HA2	10:BA:935:G:O2'	1.94	0.68
17:BH:3:LYS:O	17:BH:4:VAL:HG13	1.94	0.68
9:A9:146:UNK:C	9:A9:149:UNK:HG3	2.24	0.68
27:AR:51:VAL:HG13	27:AR:82:LEU:HD11	1.76	0.68
10:BA:407:A:H5''	10:BA:408:C:C5	2.28	0.68
2:A2:10:LYS:HZ3	10:AA:330:C:P	2.15	0.68
2:B2:192:GLU:HB2	26:BQ:19:SER:CB	2.24	0.68
26:BQ:17:LEU:HA	26:BQ:20:LYS:CE	2.24	0.68
10:AA:231:U:H2'	10:AA:232:G:O4'	1.93	0.68
10:BA:1302:G:N2	31:BV:6:THR:HG21	2.09	0.68
10:BA:381:G:H2'	10:BA:382:A:H8	1.59	0.68
34:BY:7:TYR:OH	34:BY:9:LEU:HD12	1.94	0.68
4:A4:64:LYS:HG2	4:A4:65:GLY:H	1.59	0.68
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
9:B9:116:CYS:O	9:B9:120:GLY:HA3	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:B7:42:CYS:O	7:B7:46:VAL:HG23	1.93	0.68
10:AA:546:G:H2'	10:AA:547:C:C5	2.29	0.68
10:AA:1556:G:C8	18:AI:124:ARG:HG3	2.27	0.68
7:B7:6:LYS:O	7:B7:10:ILE:HG13	1.93	0.68
10:BA:616:A:C4'	10:BA:617:A:H5'	2.23	0.68
10:BA:245:A:HO2'	10:BA:246:U:H3'	1.56	0.68
10:AA:231:U:H2'	10:AA:232:G:C4'	2.24	0.68
10:AA:866:U:H3	10:AA:902:G:H1	1.39	0.68
2:B2:29:LYS:HZ1	10:BA:391:A:N6	1.91	0.68
10:BA:863:G:H2'	10:BA:864:U:C6	2.29	0.68
10:AA:381:G:H2'	10:AA:382:A:C8	2.29	0.68
9:A9:85:LYS:HG3	9:A9:86:THR:N	2.09	0.68
10:BA:785:G:N3	17:BH:107:THR:HG21	2.08	0.68
32:BW:163:LYS:HB2	32:BW:237:TRP:HZ3	1.58	0.68
29:BT:112:GLU:OE2	29:BT:119:LYS:HG3	1.93	0.68
9:A9:116:CYS:HA	9:A9:125:MET:SD	2.34	0.68
4:A4:77:ASP:O	4:A4:79:SER:N	2.26	0.68
10:BA:1257:U:O2'	10:BA:1258:U:OP2	2.12	0.68
2:A2:78:GLU:O	2:A2:79:ASN:HB3	1.93	0.68
22:AM:26:ARG:CG	22:AM:27:ILE:H	2.04	0.67
10:BA:1603:A:N7	10:BA:1717:C:O4'	2.27	0.67
10:BA:1033:A:O2'	10:BA:1034:A:H5'	1.93	0.67
16:BG:44:VAL:HG12	16:BG:45:PRO:HD2	1.75	0.67
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
27:AR:75:HIS:ND1	27:AR:95:SER:HB2	2.10	0.67
5:A5:67:PRO:HD3	20:AK:129:ILE:HD12	1.76	0.67
4:A4:181:GLU:HG2	4:A4:199:TYR:CE2	2.29	0.67
10:AA:673:A:H2'	10:AA:675:A:N6	2.09	0.67
11:BB:141:ILE:HG23	11:BB:155:VAL:CG1	2.24	0.67
10:BA:1137:A:H2'	10:BA:1138:A:C8	2.29	0.67
10:BA:468:U:H5'	10:BA:469:A:C4'	2.24	0.67
10:AA:381:G:H2'	10:AA:382:A:H8	1.57	0.67
10:AA:1509:U:H5''	10:AA:1544:G:H22	1.58	0.67
18:AI:120:VAL:HG12	18:AI:121:ALA:H	1.57	0.67
13:AD:10:LYS:N	13:AD:10:LYS:HD2	2.09	0.67
8:A8:69:VAL:HG11	8:A8:80:ALA:HB1	1.74	0.67
10:BA:1579:G:H3'	18:BI:126:MET:CE	2.24	0.67
27:BR:274:THR:HG22	27:BR:277:GLY:O	1.95	0.67
10:BA:75:C:H1'	34:BY:178:LYS:HG2	1.76	0.67
2:A2:29:LYS:HZ3	10:AA:391:A:N6	1.93	0.67
27:AR:340:THR:HG22	27:AR:341:SER:N	2.05	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:618:G:O2'	10:AA:619:C:H5'	1.94	0.67
31:AV:35:LEU:O	31:AV:35:LEU:HD23	1.95	0.67
22:AM:112:ASP:O	22:AM:115:ARG:HB3	1.94	0.67
11:AB:45:ASN:ND2	31:AV:109:LEU:HD13	2.09	0.67
10:AA:733:G:H2'	10:AA:734:U:C6	2.29	0.67
10:BA:231:U:H2'	10:BA:232:G:C4'	2.24	0.67
10:BA:231:U:H2'	10:BA:232:G:H5''	1.75	0.67
12:AC:227:ILE:HG12	27:AR:209:PHE:CE1	2.29	0.67
4:B4:64:LYS:HG2	4:B4:65:GLY:H	1.59	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
11:AB:193:VAL:HG13	11:AB:197:LEU:HD12	1.76	0.67
32:BW:31:PRO:HB2	32:BW:38:LEU:HD23	1.76	0.67
6:A6:40:ASN:HB2	6:A6:56:LYS:HD2	1.75	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
13:AD:71:PHE:CE2	32:AW:250:ILE:HG21	2.29	0.67
16:BG:55:LYS:O	16:BG:56:PHE:HD1	1.78	0.67
13:AD:136:VAL:HG22	13:AD:156:ILE:HG23	1.74	0.67
10:BA:1156:A:H2	10:BA:1425:G:N3	1.91	0.67
1:B1:7:THR:CG2	1:B1:31:LEU:HD22	2.24	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
19:AJ:67:LYS:HD2	19:AJ:76:THR:HG21	1.77	0.67
10:AA:407:A:H5''	10:AA:408:C:C5	2.30	0.67
3:B3:91:ILE:HG23	3:B3:166:LYS:HD2	1.74	0.67
2:B2:10:LYS:HD2	10:BA:314:A:OP2	1.93	0.67
34:BY:132:LYS:CE	34:BY:163:ARG:HD3	2.22	0.67
10:BA:570:G:H4'	10:BA:574:A:C2	2.30	0.67
26:AQ:17:LEU:HA	26:AQ:20:LYS:CE	2.24	0.67
27:BR:241:ASP:O	27:BR:245:LEU:HD21	1.95	0.67
22:BM:72:LEU:HA	22:BM:79:HIS:NE2	2.09	0.67
2:B2:29:LYS:NZ	10:BA:391:A:H62	1.87	0.67
11:BB:99:TRP:HH2	11:BB:104:LEU:HG	1.58	0.67
30:AU:26:SER:HB3	30:AU:31:GLU:HG3	1.76	0.67
9:A9:81:THR:CG2	9:A9:83:LYS:HG2	2.24	0.67
27:AR:87:GLU:HB2	27:AR:89:CYS:SG	2.33	0.67
10:AA:155:U:H5''	34:AY:83:CYS:C	2.15	0.67
2:A2:155:LYS:O	2:A2:155:LYS:HG2	1.94	0.67
4:B4:137:ILE:HD12	4:B4:225:LYS:HB2	1.76	0.67
14:AE:225:TYR:CE1	17:AH:70:ASN:ND2	2.63	0.67
10:AA:546:G:C2	10:AA:547:C:N4	2.63	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:608:C:OP1	38:AA:2284:HOH:O	2.12	0.67
1:A1:7:THR:CG2	1:A1:31:LEU:HD22	2.25	0.67
27:BR:214:SER:HB3	27:BR:233:LYS:HB2	1.76	0.67
10:BA:1263:G:H8	10:BA:1263:G:O5'	1.78	0.67
27:BR:267:LEU:O	27:BR:268:GLN:HB2	1.92	0.67
27:BR:186:TYR:HB3	27:BR:206:ARG:HH11	1.60	0.67
4:B4:108:ILE:HD12	4:B4:219:ARG:HA	1.77	0.67
10:AA:27:A:H5'	10:AA:27:A:H8	1.60	0.67
10:BA:1301:A:H2'	10:BA:1302:G:O4'	1.94	0.67
27:AR:190:VAL:HG22	27:AR:219:LEU:HD13	1.77	0.67
18:AI:99:VAL:HG12	18:AI:100:ASP:N	2.10	0.67
16:BG:70:THR:HB	16:BG:150:ILE:HD12	1.76	0.67
10:BA:1187:C:H4'	23:BN:3:ASN:O	1.94	0.67
34:AY:12:ALA:HB1	34:AY:124:LEU:HA	1.75	0.67
29:BT:111:LEU:HD23	29:BT:116:ILE:HD12	1.77	0.67
1:A1:46:LYS:O	1:A1:46:LYS:HG3	1.93	0.67
11:AB:118:LEU:HD12	11:AB:119:ILE:H	1.58	0.67
27:AR:234:ASP:OD1	27:AR:236:LYS:HB2	1.94	0.67
10:AA:962:G:H1	10:AA:995:U:H3	1.41	0.67
7:A7:82:ILE:HG13	30:AU:17:LYS:HZ3	1.60	0.67
10:AA:738:A:O2'	10:AA:739:A:H5'	1.94	0.67
8:A8:90:ARG:O	8:A8:92:LEU:N	2.27	0.67
16:AG:137:ALA:O	16:AG:141:ARG:HB2	1.95	0.67
10:BA:761:U:O2'	10:BA:762:U:OP1	2.12	0.67
10:BA:873:G:H22	20:BK:55:ARG:NH2	1.93	0.67
10:AA:1171:G:C8	23:AN:39:ARG:NH1	2.61	0.67
14:BE:231:TRP:HH2	17:BH:66:ILE:HG21	1.60	0.67
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:AA:1302:G:N2	31:AV:6:THR:HG21	2.07	0.67
2:A2:194:LYS:HD3	26:AQ:12:GLN:HE22	1.59	0.67
10:BA:733:G:H2'	10:BA:734:U:C6	2.30	0.67
22:AM:16:ARG:HH22	22:AM:20:THR:HA	1.59	0.67
32:BW:206:SER:O	32:BW:207:PHE:HB2	1.93	0.67
26:BQ:44:PRO:HG2	26:BQ:47:ALA:CB	2.24	0.67
24:BO:29:HIS:O	24:BO:30:MET:HG3	1.95	0.67
32:BW:163:LYS:HB2	32:BW:237:TRP:CZ3	2.29	0.67
11:BB:164:THR:HG21	11:BB:200:HIS:H	1.58	0.67
15:BF:31:CYS:HB2	15:BF:75:GLY:O	1.94	0.67
21:AL:19:ARG:CA	21:AL:19:ARG:HH11	2.02	0.67
22:AM:28:THR:HG21	22:AM:61:LEU:HD11	1.76	0.67
10:AA:761:U:O2'	10:AA:762:U:OP1	2.12	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:72:G:H3'	10:BA:72:G:C8	2.29	0.67
26:BQ:106:ILE:HG22	26:BQ:108:VAL:HG23	1.76	0.67
34:BY:39:ASP:C	34:BY:41:LEU:H	1.98	0.67
34:AY:39:ASP:C	34:AY:41:LEU:H	1.97	0.67
10:BA:681:G:H22	10:BA:719:G:H22	1.33	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
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
31:BV:35:LEU:HD21	31:BV:41:VAL:HG21	1.75	0.67
32:BW:89:MET:HE3	32:BW:104:LEU:HD21	1.74	0.67
10:AA:91:G:OP2	32:AW:3:ARG:CZ	2.42	0.67
13:BD:158:PHE:HD1	13:BD:158:PHE:N	1.93	0.67
10:AA:572:U:H4'	10:AA:573:A:H5'	1.75	0.67
10:BA:986:G:OP1	20:BK:149:ARG:CZ	2.42	0.67
25:AP:51:ARG:NH2	25:AP:148:ALA:HB3	2.09	0.67
10:AA:1090:G:H1	10:AA:1102:U:H3	1.40	0.67
12:BC:175:VAL:HG22	12:BC:188:LYS:HA	1.77	0.67
3:B3:192:PHE:HE1	6:B6:14:LYS:HA	1.59	0.67
12:BC:214:ILE:O	31:BV:39:ALA:HB1	1.95	0.67
29:AT:25:HIS:HA	29:AT:28:LYS:HE2	1.76	0.67
10:AA:1000:U:H4'	10:AA:1097:A:N6	2.09	0.67
10:BA:1456:A:H2'	10:BA:1457:A:O4'	1.95	0.67
10:AA:604:G:H1	10:AA:1080:G:H21	1.37	0.67
16:AG:45:PRO:HG3	16:AG:85:ILE:HG23	1.77	0.67
10:BA:1263:G:H21	10:BA:1296:G:H22	1.42	0.67
10:AA:796:U:C2'	10:AA:797:A:H5'	2.23	0.67
22:BM:93:LYS:HE2	28:BS:41:LEU:HD22	1.76	0.67
12:AC:226:GLU:HG2	27:AR:208:THR:CG2	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:AA:68:U:H3	10:AA:77:G:H1	1.41	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
2:B2:35:MET:CE	2:B2:37:LYS:HG3	2.25	0.67
27:AR:200:ASN:O	27:AR:202:ASN:N	2.28	0.67
12:BC:36:GLY:O	12:BC:55:ALA:HA	1.95	0.67
29:AT:145:THR:O	29:AT:149:ILE:HG13	1.93	0.67
11:AB:74:SER:OG	11:AB:125:SER:HB3	1.95	0.67
10:BA:1239:G:O2'	10:BA:1240:G:H5'	1.94	0.67
10:AA:805:G:H1	10:AA:827:U:H3	1.43	0.67
10:AA:177:U:H2'	10:AA:178:U:C6	2.29	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1273:U:O2'	10:BA:1274:U:H5'	1.95	0.67
7:A7:63:PHE:CD2	12:AC:79:ARG:HD2	2.29	0.67
10:BA:1324:U:O2'	18:BI:4:GLN:HG2	1.95	0.67
10:BA:1178:U:O3'	23:BN:26:ARG:HD2	1.93	0.67
1:B1:31:LEU:HD12	1:B1:39:ARG:HB3	1.77	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
34:AY:67:VAL:O	34:AY:67:VAL:HG13	1.93	0.67
11:BB:193:VAL:HG13	11:BB:197:LEU:HD12	1.76	0.67
10:AA:1102:U:H2'	10:AA:1103:G:H5'	1.77	0.67
21:AL:34:LEU:O	21:AL:36:SER:N	2.28	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
14:BE:157:GLN:HA	17:BH:96:SER:OG	1.95	0.67
10:BA:5:U:O2'	10:BA:546:G:H4'	1.95	0.67
10:BA:605:U:O2	10:BA:605:U:H2'	1.94	0.67
22:AM:26:ARG:HG3	22:AM:27:ILE:N	2.05	0.67
16:AG:55:LYS:O	16:AG:56:PHE:HD1	1.78	0.67
10:AA:765:A:O2'	10:AA:766:G:OP2	2.13	0.67
10:AA:757:C:C5	10:AA:770:G:C2	2.83	0.67
10:AA:1720:G:OP1	10:AA:1723:A:H4'	1.94	0.67
6:B6:45:PHE:CD2	24:BO:57:ARG:HD3	2.30	0.67
26:BQ:116:VAL:HG12	26:BQ:117:LYS:N	2.00	0.67
3:A3:127:LEU:HG	3:A3:174:TYR:CE1	2.30	0.67
27:AR:107:THR:O	27:AR:109:THR:N	2.28	0.67
2:B2:86:ILE:O	2:B2:86:ILE:HD13	1.95	0.67
21:BL:52:VAL:HG13	21:BL:71:VAL:HG13	1.77	0.67
22:AM:16:ARG:NH2	10:BA:1700:A:N3	2.42	0.67
34:AY:7:TYR:HB3	34:AY:12:ALA:HB3	1.76	0.67
25:BP:49:ASP:HB3	25:BP:52:ASN:HD22	1.58	0.67
15:AF:49:LYS:HE2	15:AF:53:LYS:NZ	2.09	0.67
3:A3:52:LYS:HB3	3:A3:56:LYS:HE2	1.77	0.67
13:BD:10:LYS:N	13:BD:10:LYS:HD2	2.10	0.67
10:AA:777:U:O2	10:AA:777:U:H2'	1.95	0.67
10:AA:256:U:H2'	10:AA:257:G:O4'	1.95	0.67
10:BA:177:U:H2'	10:BA:178:U:C6	2.29	0.67
14:AE:196:ASP:O	14:AE:197:ILE:HG23	1.95	0.67
10:AA:1510:U:H2'	10:AA:1511:A:O5'	1.94	0.67
16:BG:32:TYR:CE2	16:BG:138:PRO:HG2	2.29	0.67
10:AA:912:A:H3'	10:AA:912:A:N3	2.10	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:BM:21:ASN:HD21	22:BM:102:SER:CB	2.07	0.67
21:AL:58:ILE:HG21	21:AL:117:PRO:CG	2.24	0.67
11:BB:5:ARG:NH1	11:BB:5:ARG:HA	2.04	0.67
10:AA:1244:U:C5'	10:AA:1245:G:OP2	2.41	0.67
32:AW:102:ARG:HE	32:AW:238:ILE:HG21	1.58	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
7:A7:13:TYR:HD2	7:A7:76:LEU:HD22	1.59	0.67
25:BP:131:THR:O	25:BP:135:VAL:HG23	1.95	0.67
29:AT:111:LEU:HD23	29:AT:116:ILE:HD12	1.77	0.67
12:BC:67:LYS:O	12:BC:71:GLU:HG3	1.95	0.67
26:AQ:145:GLU:OE1	26:AQ:145:GLU:HA	1.93	0.67
11:BB:120:VAL:HG22	11:BB:142:ALA:HB2	1.75	0.67
11:AB:163:SER:HB3	11:AB:165:GLU:OE1	1.95	0.67
4:A4:137:ILE:HD12	4:A4:225:LYS:HB2	1.77	0.67
10:BA:1696:U:O2'	10:BA:1697:G:H5'	1.95	0.67
25:BP:27:HIS:HE1	25:BP:67:SER:OG	1.78	0.67
24:BO:86:LEU:HD11	24:BO:90:LEU:HD23	1.77	0.66
1:A1:7:THR:HG23	1:A1:33:SER:CB	2.25	0.66
20:BK:46:ASP:OD2	20:BK:48:SER:OG	2.13	0.66
10:BA:676:C:C4'	10:BA:677:G:H5'	2.24	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
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
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
25:AP:49:ASP:HB3	25:AP:52:ASN:HD22	1.58	0.66
10:AA:1456:A:H2'	10:AA:1457:A:O4'	1.94	0.66
7:A7:47:ARG:HB2	7:A7:50:LYS:HE2	1.75	0.66
6:B6:57:CYS:O	6:B6:58:SER:HB2	1.95	0.66
10:AA:468:U:H5'	10:AA:469:A:C4'	2.24	0.66
5:B5:77:ILE:HD13	10:BA:1746:G:H1	1.59	0.66
10:BA:1716:A:C2'	10:BA:1717:C:H5''	2.25	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:1429:G:OP2	10:BA:1430:C:H5	1.78	0.66
20:AK:45:THR:CG2	20:AK:49:GLY:HA2	2.25	0.66
10:AA:1171:G:N1	23:AN:29:LEU:HD22	2.09	0.66
3:B3:129:ASP:HA	3:B3:132:LEU:HD13	1.75	0.66
28:AS:33:LEU:HD11	28:AS:59:ALA:HA	1.76	0.66
17:AH:74:VAL:HG12	17:AH:75:ILE:N	2.10	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:247:PHE:O	14:AE:249:HIS:N	2.28	0.66
32:BW:230:LEU:HD13	32:BW:238:ILE:HD12	1.76	0.66
27:AR:194:GLY:HA2	27:AR:216:VAL:HG23	1.76	0.66
10:BA:733:G:H1	10:BA:782:A:H61	1.43	0.66
9:A9:86:THR:HG22	9:A9:87:LYS:N	2.09	0.66
25:AP:131:THR:O	25:AP:135:VAL:HG23	1.94	0.66
10:AA:1536:U:H2'	10:AA:1537:C:C6	2.31	0.66
24:BO:28:LEU:HD12	24:BO:29:HIS:N	2.09	0.66
12:AC:173:VAL:HG22	12:AC:190:LYS:HG2	1.77	0.66
10:BA:29:G:H4'	21:BL:130:SER:CB	2.25	0.66
22:AM:87:ASN:ND2	22:AM:99:GLN:HE21	1.93	0.66
30:BU:16:ILE:HD12	30:BU:82:TYR:HD2	1.60	0.66
10:BA:360:U:O2'	10:BA:361:A:OP1	2.13	0.66
24:AO:96:LYS:O	24:AO:100:ILE:HD13	1.96	0.66
10:AA:945:A:H2'	10:AA:946:U:O4'	1.95	0.66
9:B9:100:PHE:O	9:B9:112:GLN:HB2	1.95	0.66
27:AR:241:ASP:O	27:AR:245:LEU:HD21	1.96	0.66
27:AR:77:HIS:CD2	27:AR:78:PHE:H	2.13	0.66
26:BQ:134:VAL:O	26:BQ:135:ARG:HG3	1.95	0.66
10:AA:616:A:C4'	10:AA:617:A:H5'	2.23	0.66
10:AA:1613:C:H1'	10:AA:1715:A:C2	2.30	0.66
10:BA:859:A:C5'	10:BA:859:A:H8	2.08	0.66
11:BB:118:LEU:C	11:BB:119:ILE:HD12	2.16	0.66
11:BB:118:LEU:HD12	11:BB:119:ILE:N	2.11	0.66
32:BW:109:GLY:CA	32:BW:191:ILE:HD11	2.24	0.66
18:BI:99:VAL:HG12	18:BI:100:ASP:N	2.09	0.66
3:B3:63:ILE:HG13	3:B3:63:ILE:O	1.93	0.66
34:AY:58:LYS:HD3	34:AY:58:LYS:O	1.95	0.66
7:A7:82:ILE:HG13	30:AU:17:LYS:NZ	2.11	0.66
20:BK:98:ARG:NH2	20:BK:100:LYS:HA	2.10	0.66
9:B9:113:GLN:HA	9:B9:127:LYS:HE2	1.78	0.66
6:A6:5:LEU:HB2	17:AH:24:GLN:NE2	2.09	0.66
10:AA:1110:A:H5''	38:AA:2368:HOH:O	1.96	0.66
6:A6:48:ALA:HA	24:AO:58:ASP:OD1	1.95	0.66
10:AA:1229:U:O2	10:AA:1230:U:H5'	1.96	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:1510:U:H2'	10:BA:1511:A:O5'	1.96	0.66
10:AA:1082:G:H1	10:AA:1108:U:H3	1.40	0.66
10:AA:795:A:H62	10:AA:836:G:H2'	1.59	0.66
13:AD:81:PHE:CZ	13:AD:88:GLU:HG3	2.20	0.66
10:AA:479:G:H3'	10:AA:480:A:H8	1.60	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1301:A:H2'	10:AA:1302:G:O4'	1.96	0.66
22:AM:125:LEU:CD2	22:AM:129:TRP:HE1	2.08	0.66
10:AA:206:U:OP1	26:AQ:16:PHE:HB3	1.95	0.66
10:AA:89:A:C4	10:AA:390:A:C2	2.83	0.66
10:BA:1489:U:H5'	10:BA:1490:C:OP2	1.96	0.66
24:AO:28:LEU:HD12	24:AO:29:HIS:N	2.11	0.66
11:AB:144:CYS:SG	11:AB:156:VAL:HG13	2.35	0.66
2:A2:37:LYS:O	2:A2:38:LEU:HD23	1.96	0.66
9:A9:116:CYS:O	9:A9:120:GLY:HA3	1.96	0.66
10:AA:124:U:H2'	10:AA:124:U:O2	1.95	0.66
27:BR:275:ASP:HA	27:BR:311:GLN:HB3	1.77	0.66
10:BA:173:A:H8	10:BA:173:A:H5'	1.60	0.66
27:BR:34:LYS:HB2	27:BR:37:GLU:OE1	1.96	0.66
10:BA:765:A:O2'	25:BP:12:VAL:HG21	1.96	0.66
18:BI:41:ILE:CD1	18:BI:50:ILE:HD12	2.25	0.66
10:AA:840:A:N6	24:AO:72:LYS:NZ	2.42	0.66
10:AA:1717:C:H2'	10:AA:1718:A:H5''	1.77	0.66
10:BA:65:C:H5'	34:BY:177:PRO:HA	1.76	0.66
10:BA:797:A:C8	10:BA:797:A:O5'	2.49	0.66
10:AA:623:U:N3	10:AA:948:A:N6	2.44	0.66
2:A2:22:ARG:NH1	2:A2:25:ARG:HH12	1.91	0.66
10:AA:494:A:O2'	33:AX:47:PRO:HG3	1.96	0.66
10:BA:318:U:H4'	26:BQ:11:LYS:NZ	2.09	0.66
4:B4:104:TYR:O	4:B4:223:VAL:HG23	1.95	0.66
24:AO:28:LEU:HD12	24:AO:29:HIS:H	1.59	0.66
10:AA:1037:G:H2'	10:AA:1038:U:H5'	1.76	0.66
32:AW:177:LEU:H	32:AW:177:LEU:HD23	1.61	0.66
7:A7:63:PHE:HB2	7:A7:65:TYR:HE1	1.61	0.66
18:BI:57:LEU:HD22	18:BI:107:ILE:HG23	1.77	0.66
10:BA:508:A:H5'	10:BA:509:G:OP2	1.95	0.66
27:AR:34:LYS:HB2	27:AR:37:GLU:OE1	1.95	0.66
29:BT:145:THR:O	29:BT:149:ILE:HG13	1.96	0.66
18:AI:102:ASN:OD1	27:AR:67:ILE:HG21	1.95	0.66
10:AA:1716:A:OP2	10:AA:1721:G:P	2.54	0.66
3:B3:95:THR:HG22	3:B3:96:ALA:H	1.59	0.66
26:AQ:134:VAL:O	26:AQ:135:ARG:HG3	1.95	0.66
27:AR:268:GLN:HB3	27:AR:284:MET:HE3	1.77	0.66
33:AX:66:LYS:HD2	33:AX:69:LYS:HD2	1.77	0.66
32:AW:93:ARG:HA	32:AW:99:GLN:O	1.96	0.66
30:BU:94:ILE:CG2	30:BU:97:VAL:HB	2.26	0.66
12:AC:165:GLN:H	12:AC:166:PRO:HD2	1.59	0.66
10:BA:453:G:OP2	13:BD:1:MET:HG3	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BP:69:GLY:C	25:BP:70:PHE:HD1	1.99	0.66
34:BY:64:LYS:HZ3	34:BY:82:SER:H	1.44	0.66
10:AA:527:A:H2'	10:AA:528:G:H8	1.61	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
18:AI:120:VAL:HG12	18:AI:121:ALA:N	2.11	0.66
32:AW:35:PRO:HD2	32:AW:85:PRO:HG2	1.78	0.66
10:BA:687:U:H2'	10:BA:688:A:C8	2.31	0.66
30:AU:73:VAL:CG1	30:AU:74:PRO:HD2	2.26	0.66
23:AN:11:ARG:HG2	23:AN:11:ARG:O	1.95	0.66
10:AA:1514:G:C5'	29:AT:90:GLY:HA2	2.25	0.66
25:BP:7:THR:OG1	25:BP:10:ILE:HD11	1.96	0.66
1:A1:31:LEU:HD12	1:A1:39:ARG:HB3	1.78	0.66
10:BA:1418:C:C6	10:BA:1418:C:H5'	2.30	0.66
13:AD:132:ARG:O	13:AD:134:ILE:N	2.28	0.66
20:BK:45:THR:HG22	20:BK:49:GLY:HA2	1.78	0.66
10:BA:1567:U:H5'	23:BN:29:LEU:HD11	1.77	0.66
10:BA:643:U:H2'	10:BA:644:U:O4'	1.96	0.66
30:AU:55:TYR:O	30:AU:59:VAL:HG23	1.95	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:BA:945:A:H2'	10:BA:946:U:O4'	1.95	0.66
10:BA:564:A:H61	21:BL:115:ASP:HB3	1.61	0.66
2:A2:14:THR:HG21	10:AA:344:A:O2'	1.95	0.66
8:B8:46:GLU:HB2	22:BM:7:LYS:HG3	1.78	0.66
22:AM:119:ILE:HG23	28:AS:124:PHE:HE2	1.59	0.66
10:AA:572:U:H5''	10:AA:573:A:OP1	1.95	0.66
32:AW:9:LEU:HD12	32:AW:10:LYS:H	1.61	0.66
10:BA:1509:U:H5''	10:BA:1544:G:H22	1.61	0.66
16:BG:122:ARG:HE	16:BG:129:VAL:CG1	2.08	0.66
26:AQ:44:PRO:HG2	26:AQ:47:ALA:CB	2.26	0.66
10:AA:1101:C:H2'	10:AA:1102:U:O4'	1.96	0.66
26:BQ:145:GLU:HA	26:BQ:145:GLU:OE1	1.95	0.66
17:BH:28:ARG:HB3	17:BH:29:PRO:HD3	1.76	0.66
15:AF:31:CYS:HB2	15:AF:75:GLY:O	1.96	0.66
13:AD:17:ARG:HB3	13:AD:20:GLU:CG	2.26	0.66
14:BE:186:LYS:O	14:BE:190:GLN:HG3	1.95	0.66
10:AA:1453:C:H1'	18:AI:79:GLN:NE2	2.10	0.66
10:BA:466:A:H62	13:BD:40:ARG:HH22	1.42	0.66
14:AE:224:ARG:CD	35:AZ:40:PHE:HZ	2.08	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:181:GLU:HG2	4:B4:199:TYR:CE2	2.31	0.66
26:AQ:70:ILE:HG22	26:AQ:71:LYS:N	2.11	0.66
32:BW:193:ARG:HG2	32:BW:220:PHE:CE2	2.31	0.66
2:B2:39:THR:C	2:B2:41:GLN:H	1.97	0.66
16:AG:95:ILE:HG21	16:AG:103:PRO:HB3	1.78	0.66
12:AC:108:MET:HE2	12:AC:125:ILE:HD13	1.77	0.66
10:BA:1660:A:C6	10:BA:1661:G:N7	2.64	0.66
10:BA:1040:C:O2'	10:BA:1041:A:H5'	1.95	0.66
9:B9:86:THR:HG22	9:B9:87:LYS:N	2.10	0.66
11:AB:14:LEU:HD11	31:AV:102:THR:HG21	1.78	0.66
27:BR:275:ASP:HB3	27:BR:311:GLN:HG2	1.77	0.66
24:BO:127:LEU:HD12	24:BO:131:TYR:CE2	2.31	0.66
21:AL:54:GLU:OE2	21:AL:56:ILE:HD11	1.96	0.66
5:A5:26:CYS:SG	5:A5:28:ARG:CB	2.83	0.66
18:BI:133:GLY:HA3	18:BI:139:LYS:HA	1.77	0.66
9:A9:124:PHE:N	9:A9:124:PHE:CD1	2.64	0.66
34:BY:58:LYS:HD3	34:BY:58:LYS:O	1.95	0.66
28:BS:132:THR:HG22	28:BS:133:HIS:H	1.61	0.66
4:B4:77:ASP:O	4:B4:79:SER:N	2.26	0.66
10:BA:599:A:C5'	10:BA:600:A:H5''	2.25	0.66
22:AM:21:ASN:HD21	22:AM:102:SER:CB	2.09	0.66
10:AA:164:U:OP1	10:AA:264:U:H4'	1.96	0.66
10:BA:1171:G:N7	23:BN:39:ARG:HB3	2.10	0.66
7:B7:61:TRP:HE1	12:BC:26:SER:CB	2.08	0.66
1:A1:19:GLY:C	1:A1:21:ARG:H	1.97	0.66
10:BA:1200:G:H1	30:BU:76:ARG:NH1	1.94	0.66
30:BU:79:LEU:HD13	30:BU:103:LEU:HD21	1.76	0.66
4:A4:26:LEU:HD12	20:AK:84:ARG:HH22	1.61	0.66
14:BE:41:LYS:HB3	14:BE:244:PHE:HE2	1.61	0.66
32:BW:125:LEU:HD12	32:BW:238:ILE:HD11	1.77	0.66
27:BR:190:VAL:HG22	27:BR:219:LEU:HD13	1.78	0.66
21:AL:52:VAL:HG13	21:AL:71:VAL:CG1	2.25	0.66
4:B4:220:LYS:NZ	10:BA:864:U:OP1	2.28	0.66
11:BB:139:PRO:HB3	35:BZ:47:VAL:HG21	1.76	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
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
23:AN:45:GLN:HB2	23:AN:49:ILE:HD11	1.78	0.66
10:BA:728:U:C2'	10:BA:729:U:H5'	2.25	0.66
10:AA:360:U:O2'	10:AA:361:A:OP1	2.14	0.66
10:BA:546:G:C2	10:BA:547:C:N4	2.64	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1514:G:H22	10:AA:1540:G:C2'	2.09	0.66
18:AI:71:VAL:HG21	18:AI:83:ILE:HG12	1.76	0.66
10:AA:1476:A:H2'	10:AA:1477:A:H5'	1.78	0.66
10:AA:1340:G:N2	10:AA:1341:U:H1'	2.10	0.66
20:AK:82:VAL:HG21	20:AK:122:SER:OG	1.96	0.66
10:BA:74:A:H1'	34:BY:179:ILE:HD11	1.76	0.66
31:AV:5:ARG:HD3	31:AV:5:ARG:N	2.10	0.66
23:BN:33:TYR:CD1	23:BN:33:TYR:O	2.46	0.66
10:BA:948:A:H2'	10:BA:949:A:H5'	1.78	0.66
27:AR:114:PHE:HB3	27:AR:145:TRP:CE3	2.31	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
32:BW:89:MET:CE	32:BW:104:LEU:HD21	2.25	0.66
32:AW:106:ASP:HB2	32:AW:110:ARG:H	1.60	0.66
12:AC:130:ILE:HA	12:AC:134:ALA:HB3	1.78	0.66
4:B4:182:ALA:HB2	4:B4:190:PHE:CE2	2.31	0.66
25:BP:23:LEU:HD11	25:BP:71:ALA:CB	2.26	0.66
4:B4:112:ARG:O	4:B4:115:SER:HB3	1.96	0.66
15:AF:48:MET:HE1	15:AF:59:ALA:HB1	1.76	0.66
14:AE:33:LEU:O	14:AE:37:VAL:HG23	1.96	0.66
21:BL:34:LEU:O	21:BL:36:SER:N	2.29	0.66
24:AO:49:PRO:HG3	24:AO:74:LEU:HD23	1.76	0.66
22:BM:87:ASN:ND2	22:BM:99:GLN:HE21	1.93	0.66
15:AF:82:GLN:OE1	15:AF:98:ILE:HD11	1.96	0.66
14:BE:189:LEU:HD13	14:BE:197:ILE:HD11	1.77	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:N3	10:BA:1429:G:H2'	2.11	0.65
3:A3:118:CYS:HB3	10:AA:633:U:OP2	1.96	0.65
30:AU:56:VAL:CG1	30:AU:60:LYS:HE3	2.23	0.65
26:BQ:17:LEU:HD12	26:BQ:31:VAL:CG1	2.25	0.65
10:BA:561:A:OP1	21:BL:67:VAL:HB	1.97	0.65
14:BE:35:ARG:HH22	14:BE:252:ALA:H	1.44	0.65
32:AW:105:TYR:CD2	32:AW:191:ILE:HD12	2.31	0.65
16:AG:13:LEU:HD12	16:AG:14:PHE:H	1.61	0.65
25:AP:69:GLY:C	25:AP:70:PHE:HD1	1.99	0.65
10:AA:1671:G:H2'	10:AA:1672:G:C8	2.31	0.65
10:BA:256:U:H2'	10:BA:257:G:O4'	1.96	0.65
14:BE:33:LEU:O	14:BE:37:VAL:HG23	1.96	0.65
34:AY:7:TYR:OH	34:AY:9:LEU:HD12	1.96	0.65
9:A9:109:VAL:CG2	30:AU:61:ALA:HB1	2.26	0.65
1:A1:45:VAL:HG12	1:A1:46:LYS:N	2.11	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BE:157:GLN:NE2	14:BE:225:TYR:HB3	2.10	0.65
3:B3:52:LYS:HB3	3:B3:56:LYS:HE2	1.78	0.65
24:AO:127:LEU:HD12	24:AO:131:TYR:CE2	2.31	0.65
5:B5:85:VAL:O	5:B5:86:VAL:HB	1.95	0.65
10:BA:912:A:H3'	10:BA:912:A:N3	2.12	0.65
10:BA:879:G:OP2	20:BK:39:ASP:HB2	1.95	0.65
10:BA:1425:G:O3'	28:BS:127:THR:HG21	1.95	0.65
3:B3:113:ARG:NH2	10:BA:633:U:OP2	2.30	0.65
2:A2:31:ARG:HG3	10:AA:323:U:OP1	1.95	0.65
10:BA:1551:U:H2'	10:BA:1552:U:C6	2.31	0.65
32:BW:125:LEU:HD23	32:BW:162:LEU:O	1.97	0.65
32:AW:125:LEU:HD23	32:AW:162:LEU:O	1.96	0.65
4:A4:182:ALA:HB2	4:A4:190:PHE:CE2	2.31	0.65
26:BQ:87:ARG:HD3	26:BQ:104:ARG:NH2	2.11	0.65
27:AR:226:LYS:O	27:AR:242:ILE:HG13	1.96	0.65
11:AB:156:VAL:CG2	35:AZ:80:HIS:HB2	2.26	0.65
16:AG:70:THR:HB	16:AG:150:ILE:HD12	1.76	0.65
31:AV:112:GLN:NE2	31:AV:113:ASN:HD22	1.94	0.65
11:AB:75:ARG:NH1	11:AB:162:ARG:HA	2.11	0.65
14:AE:157:GLN:NE2	14:AE:225:TYR:HB3	2.11	0.65
21:AL:53:THR:O	21:AL:54:GLU:HB3	1.96	0.65
32:BW:150:ARG:HG2	32:BW:151:PHE:HD1	1.60	0.65
28:AS:132:THR:HG22	28:AS:133:HIS:H	1.60	0.65
10:BA:777:U:H2'	10:BA:777:U:O2	1.95	0.65
10:BA:1474:G:O2'	29:BT:42:THR:HG21	1.95	0.65
29:AT:45:VAL:HG12	29:AT:46:ALA:N	2.11	0.65
16:BG:66:ARG:HH22	16:BG:143:ASN:HD21	1.44	0.65
4:B4:126:ALA:CB	4:B4:175:ASN:HD21	2.00	0.65
10:BA:84:U:C2'	10:BA:85:G:C5'	2.74	0.65
13:AD:110:GLN:HG3	13:AD:126:ARG:NE	2.12	0.65
6:B6:34:LYS:HG2	6:B6:41:ILE:CG1	2.24	0.65
19:AJ:49:GLU:CB	19:AJ:92:THR:HB	2.20	0.65
1:B1:19:GLY:C	1:B1:21:ARG:H	1.98	0.65
27:BR:146:ASN:C	27:BR:148:LEU:H	1.99	0.65
7:B7:9:LYS:O	7:B7:13:TYR:HD1	1.79	0.65
27:AR:95:SER:HB3	27:AR:97:ASP:OD1	1.97	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
10:BA:1028:G:H5'	10:BA:1028:G:C8	2.28	0.65
10:AA:1030:A:H2'	10:AA:1031:A:H8	1.61	0.65
9:B9:85:LYS:HG3	9:B9:86:THR:N	2.10	0.65
4:A4:50:VAL:HG12	4:A4:51:THR:N	2.11	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BP:90:ARG:HB3	25:BP:96:GLY:O	1.96	0.65
10:BA:99:A:H3'	38:BA:2106:HOH:O	1.97	0.65
11:BB:109:THR:HG22	11:BB:111:LYS:H	1.61	0.65
10:BA:1071:U:H5''	10:BA:1072:G:OP2	1.96	0.65
22:BM:81:ILE:HA	29:BT:40:TRP:CZ2	2.32	0.65
10:BA:1740:C:OP2	20:BK:146:ARG:CB	2.36	0.65
24:BO:86:LEU:CD1	24:BO:87:PRO:HD2	2.17	0.65
10:AA:1325:G:C3'	10:AA:1326:C:H5''	2.25	0.65
10:BA:1325:G:C3'	10:BA:1326:C:H5''	2.26	0.65
5:A5:77:ILE:HG12	10:AA:1746:G:O6	1.95	0.65
10:BA:1244:U:C5'	10:BA:1245:G:OP2	2.45	0.65
1:B1:20:SER:C	1:B1:22:GLY:H	1.99	0.65
11:BB:13:LEU:HA	11:BB:169:MET:HE3	1.78	0.65
9:B9:97:ALA:HB1	30:BU:29:LEU:CD1	2.25	0.65
4:A4:71:THR:HB	20:AK:128:ARG:CZ	2.26	0.65
27:BR:92:ILE:HB	27:BR:124:VAL:HG11	1.78	0.65
10:BA:562:G:OP1	21:BL:69:LYS:HE2	1.97	0.65
5:B5:15:ARG:H	5:B5:15:ARG:CD	2.07	0.65
10:AA:1462:U:C5	10:AA:1464:U:C4	2.82	0.65
27:AR:293:THR:HG21	27:AR:336:PHE:HE2	1.60	0.65
10:BA:223:C:H2'	10:BA:224:G:C8	2.31	0.65
8:A8:96:VAL:HG21	16:AG:97:LEU:HD11	1.77	0.65
15:AF:32:PHE:HD2	15:AF:72:LYS:HE2	1.59	0.65
10:BA:1495:U:HO2'	10:BA:1496:A:C5'	2.10	0.65
10:AA:1188:A:O5'	10:AA:1188:A:C8	2.50	0.65
10:BA:388:A:O2'	10:BA:389:G:H5'	1.97	0.65
15:BF:49:LYS:HE2	15:BF:53:LYS:HZ3	1.61	0.65
7:B7:52:ARG:HB2	7:B7:54:PHE:CE1	2.31	0.65
21:BL:53:THR:O	21:BL:54:GLU:HB3	1.96	0.65
6:A6:57:CYS:O	6:A6:58:SER:HB2	1.96	0.65
13:BD:17:ARG:HB3	13:BD:20:GLU:CG	2.26	0.65
14:BE:166:VAL:CG2	14:BE:210:ASN:HB3	2.26	0.65
16:AG:32:TYR:CE2	16:AG:138:PRO:HG2	2.31	0.65
10:AA:1579:G:H3'	18:AI:126:MET:CE	2.27	0.65
15:BF:39:PRO:HG2	15:BF:42:PHE:CE1	2.30	0.65
21:AL:117:PRO:HG2	21:AL:118:GLY:H	1.60	0.65
27:AR:146:ASN:HD22	27:AR:150:GLU:CB	2.07	0.65
4:A4:89:LEU:CB	4:A4:101:THR:HG21	2.24	0.65
2:B2:31:ARG:HG3	10:BA:323:U:OP1	1.96	0.65
10:AA:1259:A:N6	10:AA:1301:A:H5'	2.11	0.65
10:AA:676:C:C4'	10:AA:677:G:H5'	2.24	0.65
22:BM:112:ASP:O	22:BM:115:ARG:HB3	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AG:13:LEU:HD12	16:AG:14:PHE:N	2.12	0.65
10:AA:573:A:N6	12:AC:148:GLN:HE22	1.93	0.65
18:AI:59:GLN:HA	18:AI:62:PHE:CD2	2.31	0.65
32:BW:133:ILE:O	32:BW:133:ILE:HG13	1.96	0.65
14:BE:49:PHE:CD1	35:BZ:41:SER:HB3	2.30	0.65
2:A2:35:MET:CE	2:A2:37:LYS:HG3	2.27	0.65
10:BA:1471:C:P	29:BT:130:ARG:HH22	2.20	0.65
22:BM:20:THR:HG22	22:BM:20:THR:O	1.97	0.65
10:BA:124:U:O2	10:BA:124:U:H2'	1.96	0.65
24:AO:13:ILE:HG22	24:AO:14:SER:O	1.97	0.65
16:AG:72:MET:HE1	16:AG:81:LYS:HB2	1.79	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:BA:1746:G:O2'	10:BA:1747:A:C5'	2.42	0.65
10:AA:1716:A:C2'	10:AA:1717:C:H5''	2.25	0.65
10:AA:984:C:O2	20:AK:151:LEU:HD22	1.96	0.65
13:AD:127:VAL:O	13:AD:130:ARG:HB2	1.96	0.65
10:BA:1430:C:N4	22:BM:139:LYS:HG3	2.11	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
8:A8:32:LYS:H	15:BF:42:PHE:HA	1.60	0.65
10:AA:797:A:H8	10:AA:797:A:O5'	1.78	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
16:AG:22:VAL:HG22	16:AG:105:GLU:HB2	1.78	0.65
10:BA:469:A:H2'	10:BA:470:G:C8	2.27	0.65
27:BR:87:GLU:HB2	27:BR:89:CYS:SG	2.37	0.65
9:B9:81:THR:HG21	9:B9:83:LYS:HG2	1.78	0.65
10:BA:1648:C:H2'	10:BA:1649:U:O4'	1.96	0.65
23:BN:45:GLN:HB2	23:BN:49:ILE:HD11	1.78	0.65
3:A3:15:ILE:O	3:A3:19:VAL:HG23	1.95	0.65
10:AA:1239:G:O2'	10:AA:1240:G:H5'	1.96	0.65
10:AA:371:U:O2'	10:AA:372:C:OP1	2.13	0.65
10:AA:74:A:N3	34:AY:179:ILE:CD1	2.59	0.65
10:BA:1583:A:H2	10:BA:1584:U:C4	2.14	0.65
31:BV:61:ILE:HG12	31:BV:66:VAL:CG2	2.20	0.65
10:BA:1263:G:N2	10:BA:1296:G:N2	2.44	0.65
9:B9:157:UNK:O	9:B9:160:UNK:HG3	1.97	0.65
10:AA:1374:C:H2'	10:AA:1374:C:O2	1.95	0.65
21:AL:116:ILE:CG2	21:AL:119:VAL:HB	2.20	0.65
9:A9:100:PHE:O	9:A9:112:GLN:HB2	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1171:G:N7	23:AN:39:ARG:HB3	2.12	0.65
5:A5:58:ALA:O	5:A5:59:PHE:O	2.15	0.65
20:AK:56:VAL:HG11	20:AK:77:ALA:HA	1.77	0.65
10:BA:618:G:C2'	10:BA:619:C:H5'	2.27	0.65
10:BA:327:G:H2'	10:BA:328:G:H5'	1.78	0.65
10:BA:236:U:C3'	10:BA:237:U:H5''	2.26	0.65
10:BA:381:G:H2'	10:BA:382:A:C8	2.31	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
10:AA:123:A:H4'	10:AA:124:U:OP2	1.96	0.65
10:BA:107:U:O2'	10:BA:108:A:H5'	1.96	0.65
25:AP:115:THR:HG22	25:AP:116:SER:N	2.11	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
14:BE:145:TRP:H	14:BE:153:HIS:HE1	1.44	0.65
10:AA:531:A:H8	10:AA:536:C:H42	1.44	0.65
8:A8:70:VAL:HG22	8:A8:75:VAL:O	1.96	0.65
10:BA:1374:C:O2	10:BA:1374:C:H2'	1.97	0.65
10:BA:377:G:H21	10:BA:417:A:H8	1.43	0.65
21:BL:117:PRO:HG2	21:BL:118:GLY:H	1.61	0.65
10:AA:748:U:O2'	10:AA:751:U:OP2	2.15	0.65
10:AA:1199:G:H5''	10:AA:1200:G:H3'	1.78	0.65
10:AA:643:U:H2'	10:AA:644:U:O4'	1.96	0.65
8:B8:75:VAL:HG12	8:B8:79:LEU:HB3	1.77	0.65
22:AM:94:ASP:OD2	28:AS:16:LYS:HD2	1.96	0.65
2:A2:86:ILE:O	2:A2:86:ILE:HD13	1.97	0.65
10:AA:90:U:OP1	32:AW:3:ARG:HB2	1.97	0.65
10:AA:865:A:H5''	20:AK:134:PRO:HB2	1.79	0.65
10:BA:1671:G:H2'	10:BA:1672:G:C8	2.31	0.65
4:B4:24:ASP:OD1	4:B4:25:PRO:HD2	1.97	0.65
11:BB:74:SER:OG	11:BB:125:SER:HB3	1.96	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
10:BA:771:A:H5''	10:BA:772:A:C5'	2.27	0.65
5:B5:90:CYS:O	5:B5:94:ARG:HG3	1.97	0.65
10:AA:1006:C:N3	10:AA:1745:G:O6	2.30	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
21:AL:58:ILE:CG2	21:AL:117:PRO:HG3	2.27	0.65
13:BD:81:PHE:CZ	13:BD:88:GLU:HG3	2.21	0.65
27:AR:72:LEU:HB3	27:AR:103:TRP:CZ3	2.31	0.65
20:AK:84:ARG:HD2	20:AK:84:ARG:O	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:BK:138:ASP:OD1	20:BK:139:SER:N	2.29	0.65
10:BA:1465:C:H2'	10:BA:1466:C:C5'	2.25	0.65
10:BA:512:C:H3'	10:BA:513:A:C5'	2.27	0.65
25:AP:89:LEU:HD12	25:AP:95:LEU:HD22	1.79	0.65
15:BF:35:VAL:HG12	15:BF:38:ILE:HD11	1.79	0.65
2:A2:178:SER:O	2:A2:180:PRO:HD3	1.97	0.65
25:BP:89:LEU:HD12	25:BP:95:LEU:HD22	1.77	0.65
10:AA:687:U:H2'	10:AA:688:A:C8	2.32	0.65
2:A2:121:TYR:CD2	2:A2:129:LEU:HD11	2.31	0.65
10:BA:1421:G:H4'	23:BN:6:TRP:HE3	1.61	0.65
30:AU:16:ILE:HD12	30:AU:82:TYR:HD2	1.62	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:1603:A:N7	10:AA:1717:C:H1'	2.12	0.65
6:B6:34:LYS:HB2	6:B6:76:ALA:HB3	1.78	0.65
10:BA:934:U:H2'	10:BA:935:G:H5'	1.79	0.65
26:AQ:120:ASP:N	26:AQ:120:ASP:OD1	2.26	0.65
22:BM:28:THR:HG21	22:BM:61:LEU:HD11	1.79	0.65
10:BA:797:A:O5'	10:BA:797:A:H8	1.80	0.65
10:AA:948:A:H2'	10:AA:949:A:H5'	1.79	0.65
27:AR:92:ILE:HG12	27:AR:102:LEU:HD23	1.78	0.65
27:BR:114:PHE:HB3	27:BR:145:TRP:CE3	2.32	0.65
10:BA:328:G:H3'	26:BQ:132:LYS:HE2	1.77	0.65
10:AA:246:U:C4	26:AQ:14:GLY:HA3	2.32	0.65
14:AE:35:ARG:HH22	14:AE:252:ALA:H	1.44	0.65
13:AD:158:PHE:HD1	13:AD:158:PHE:N	1.93	0.65
10:BA:572:U:H4'	10:BA:573:A:H5'	1.78	0.65
31:BV:112:GLN:NE2	31:BV:113:ASN:HD22	1.95	0.65
10:BA:130:A:H2'	10:BA:131:U:C6	2.32	0.65
10:AA:1040:C:O2'	10:AA:1041:A:H5'	1.96	0.65
16:BG:169:ALA:O	16:BG:173:ILE:HG13	1.96	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
10:AA:1081:G:H5'	10:AA:1081:G:C8	2.26	0.64
10:BA:1082:G:H1	10:BA:1108:U:H3	1.45	0.64
29:BT:45:VAL:HG12	29:BT:46:ALA:N	2.11	0.64
10:BA:1279:U:O2'	10:BA:1280:G:H5'	1.97	0.64
6:B6:45:PHE:CE2	24:BO:57:ARG:HD3	2.32	0.64
17:BH:74:VAL:HG13	17:BH:126:LEU:O	1.97	0.64
10:AA:642:G:C2'	10:AA:643:U:H5'	2.26	0.64
34:BY:16:ILE:HD13	34:BY:45:PHE:CZ	2.32	0.64
10:BA:642:G:C2'	10:BA:643:U:H5'	2.26	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
2:A2:87:LEU:HD22	2:A2:171:ARG:HH11	1.62	0.64
25:BP:15:LEU:CD2	32:BW:71:ASN:HB3	2.27	0.64
32:BW:42:LEU:HD12	32:BW:47:LEU:HB2	1.79	0.64
12:BC:165:GLN:H	12:BC:166:PRO:HD2	1.60	0.64
2:B2:56:VAL:HG13	2:B2:57:ARG:N	2.11	0.64
32:AW:133:ILE:O	32:AW:133:ILE:HG13	1.97	0.64
18:AI:7:GLN:HG3	18:AI:98:TYR:HE2	1.62	0.64
30:BU:14:LYS:O	30:BU:18:SER:HB3	1.97	0.64
13:AD:171:ARG:HB3	13:AD:175:LYS:NZ	2.12	0.64
18:AI:133:GLY:HA3	18:AI:139:LYS:HA	1.79	0.64
9:A9:113:GLN:HA	9:A9:127:LYS:HE2	1.79	0.64
3:A3:82:ILE:HG22	3:A3:86:LYS:HE3	1.78	0.64
14:AE:205:THR:HG23	14:AE:211:PHE:CD1	2.32	0.64
14:BE:196:ASP:O	14:BE:197:ILE:HG23	1.97	0.64
10:BA:983:A:H2'	10:BA:984:C:H6	1.62	0.64
1:A1:62:ARG:O	1:A1:63:GLU:HB3	1.98	0.64
8:B8:72:LYS:HB2	8:B8:73:LEU:HD23	1.77	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
34:AY:16:ILE:HD13	34:AY:45:PHE:CZ	2.31	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
22:BM:125:LEU:HG	22:BM:129:TRP:HE1	1.63	0.64
12:AC:122:ALA:HA	12:AC:125:ILE:HD13	1.79	0.64
10:AA:454:C:C2'	10:AA:455:C:H5''	2.26	0.64
25:AP:140:SER:HA	25:AP:143:LEU:CD1	2.26	0.64
11:BB:10:ILE:O	11:BB:14:LEU:HB2	1.96	0.64
18:BI:59:GLN:HA	18:BI:62:PHE:CD2	2.30	0.64
10:BA:249:A:H1'	32:BW:133:ILE:HD11	1.79	0.64
10:BA:1095:G:H21	10:BA:1098:A:H2	1.46	0.64
11:BB:51:GLN:HE22	35:BZ:95:ILE:HB	1.61	0.64
10:BA:970:A:H2'	10:BA:971:A:H5'	1.79	0.64
11:AB:118:LEU:HD12	11:AB:119:ILE:N	2.12	0.64
10:BA:1693:A:H2'	10:BA:1694:U:H6	1.61	0.64
17:AH:101:ASN:HB2	17:AH:129:PHE:O	1.96	0.64
14:BE:182:ALA:HB1	14:BE:183:PRO:HD2	1.77	0.64
14:BE:167:ARG:HB2	14:BE:202:GLN:HB2	1.79	0.64
18:AI:16:LYS:O	18:AI:17:ASN:HB2	1.97	0.64
10:BA:500:U:H2'	10:BA:501:U:C5'	2.20	0.64
29:AT:45:VAL:H	29:AT:100:HIS:CD2	2.15	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:121:GLN:HE21	4:B4:145:PHE:HD2	1.43	0.64
26:BQ:116:VAL:CG1	26:BQ:117:LYS:H	2.01	0.64
34:BY:41:LEU:HB3	34:BY:45:PHE:CD1	2.33	0.64
3:A3:66:HIS:CE1	10:AA:834:A:H5'	2.27	0.64
28:BS:42:PHE:CE2	28:BS:118:GLY:HA2	2.32	0.64
10:BA:1199:G:H5''	10:BA:1200:G:H3'	1.79	0.64
27:BR:92:ILE:HG12	27:BR:102:LEU:HD23	1.80	0.64
26:AQ:35:LYS:HG2	26:AQ:36:ASN:N	2.12	0.64
2:A2:39:THR:C	2:A2:41:GLN:H	1.99	0.64
32:BW:105:TYR:CD2	32:BW:191:ILE:HD12	2.32	0.64
12:BC:228:ARG:HG2	27:BR:243:LEU:C	2.17	0.64
14:BE:69:LYS:HG2	14:BE:76:LYS:NZ	2.11	0.64
10:BA:451:G:O2'	10:BA:452:A:P	2.56	0.64
8:B8:29:LYS:NZ	10:BA:1509:U:H5'	2.12	0.64
35:BZ:34:TRP:HD1	35:BZ:82:ALA:CB	2.10	0.64
23:AN:35:MET:O	23:AN:35:MET:HG3	1.97	0.64
21:AL:6:PRO:HG2	21:AL:15:LEU:HD21	1.79	0.64
4:B4:50:VAL:HG12	4:B4:51:THR:N	2.13	0.64
34:BY:1:MET:HE3	34:BY:109:LEU:CG	2.27	0.64
25:BP:115:THR:HG22	25:BP:116:SER:N	2.12	0.64
32:AW:248:GLU:HB3	32:AW:252:GLU:HB2	1.79	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
13:BD:17:ARG:HB3	13:BD:20:GLU:HG3	1.80	0.64
17:BH:77:PRO:HD2	17:BH:79:TYR:CE1	2.32	0.64
10:AA:500:U:H2'	10:AA:501:U:C5'	2.20	0.64
22:AM:82:PRO:HD3	29:AT:40:TRP:CE2	2.32	0.64
29:AT:60:ARG:NH2	29:AT:83:PHE:HD2	1.96	0.64
10:BA:1613:C:H1'	10:BA:1715:A:C2	2.30	0.64
10:BA:1536:U:H2'	10:BA:1537:C:C6	2.31	0.64
12:BC:15:VAL:HG11	23:BN:34:GLU:CB	2.28	0.64
27:BR:146:ASN:HD22	27:BR:150:GLU:CB	2.08	0.64
10:AA:1429:G:OP2	10:AA:1430:C:H5	1.80	0.64
5:A5:57:LEU:HD12	5:A5:58:ALA:H	1.60	0.64
34:BY:132:LYS:NZ	34:BY:163:ARG:CB	2.61	0.64
20:BK:95:ILE:HD12	20:BK:129:ILE:CG2	2.26	0.64
6:A6:6:LEU:CD2	17:AH:62:VAL:HG21	2.25	0.64
10:AA:1263:G:O5'	10:AA:1263:G:H8	1.80	0.64
32:AW:109:GLY:CA	32:AW:191:ILE:HD11	2.24	0.64
21:BL:86:VAL:HG12	21:BL:91:CYS:HB3	1.80	0.64
32:AW:127:LYS:NZ	32:AW:186:GLN:HE22	1.96	0.64
24:AO:22:ARG:HA	24:AO:67:PHE:HE2	1.61	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:129:ASP:O	27:AR:131:ARG:N	2.30	0.64
18:BI:22:ALA:CB	18:BI:86:ALA:HB1	2.28	0.64
22:AM:20:THR:O	22:AM:20:THR:HG22	1.98	0.64
10:BA:1162:C:O2'	10:BA:1163:U:H5''	1.97	0.64
18:AI:32:LYS:HB3	18:AI:68:ARG:HA	1.80	0.64
6:B6:40:ASN:HB2	6:B6:56:LYS:CD	2.27	0.64
21:BL:54:GLU:OE2	21:BL:56:ILE:HD11	1.97	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
14:AE:167:ARG:HB2	14:AE:202:GLN:HB2	1.78	0.64
17:AH:77:PRO:HD2	17:AH:79:TYR:CE1	2.33	0.64
29:BT:56:TRP:HA	29:BT:59:ILE:HD12	1.79	0.64
5:B5:13:LYS:HD2	10:BA:1048:A:H5''	1.79	0.64
10:BA:1006:C:N3	10:BA:1745:G:O6	2.31	0.64
18:BI:16:LYS:O	18:BI:17:ASN:HB2	1.97	0.64
5:A5:13:LYS:HD2	10:AA:1048:A:H5''	1.79	0.64
10:AA:506:U:H4'	13:AD:131:GLN:HB3	1.80	0.64
22:BM:28:THR:HG23	22:BM:58:ALA:HA	1.79	0.64
25:AP:3:ILE:HG22	25:AP:4:VAL:N	2.11	0.64
10:AA:125:U:C4'	10:AA:126:A:H5''	2.23	0.64
3:A3:102:SER:HA	10:AA:633:U:O4	1.97	0.64
27:AR:127:SER:CB	27:AR:132:GLN:HB2	2.28	0.64
4:A4:34:PHE:HB3	4:A4:45:PHE:O	1.97	0.64
22:BM:125:LEU:CD2	22:BM:129:TRP:HE1	2.09	0.64
22:AM:125:LEU:O	22:AM:129:TRP:CD1	2.44	0.64
29:BT:75:GLY:O	29:BT:79:LEU:HD12	1.97	0.64
5:B5:58:ALA:O	5:B5:59:PHE:O	2.15	0.64
26:AQ:17:LEU:CA	26:AQ:20:LYS:HE2	2.28	0.64
35:AZ:54:VAL:HG13	35:AZ:59:GLN:O	1.98	0.64
15:BF:26:ARG:HH21	15:BF:72:LYS:NZ	1.94	0.64
16:AG:122:ARG:HE	16:AG:129:VAL:CG1	2.10	0.64
15:AF:73:LEU:N	15:AF:73:LEU:HD23	2.12	0.64
1:A1:46:LYS:HB3	16:AG:134:VAL:HG11	1.78	0.64
25:AP:115:THR:HG22	25:AP:116:SER:H	1.62	0.64
28:BS:14:ARG:HB3	28:BS:114:PHE:CD2	2.31	0.64
25:AP:129:GLY:O	25:AP:130:ASP:HB2	1.97	0.64
14:AE:145:TRP:H	14:AE:153:HIS:HE1	1.46	0.64
10:AA:72:G:C8	10:AA:72:G:H3'	2.32	0.64
10:AA:765:A:N3	25:AP:19:ARG:HD3	2.12	0.64
7:A7:61:TRP:HE1	12:AC:26:SER:HB3	1.63	0.64
25:BP:21:LEU:H	25:BP:21:LEU:HD23	1.63	0.64
10:BA:43:U:H3'	10:BA:44:U:H5'	1.80	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:883:A:H5'	20:AK:66:ARG:HB3	1.79	0.64
13:BD:28:MET:HE1	33:BX:37:LYS:HD2	1.80	0.64
11:AB:186:SER:OG	11:AB:189:GLU:HB3	1.98	0.64
10:AA:797:A:C2'	10:AA:798:G:O4'	2.42	0.64
10:BA:673:A:H2'	10:BA:675:A:N6	2.09	0.64
9:B9:97:ALA:O	9:B9:98:LEU:HD12	1.98	0.64
30:BU:55:TYR:O	30:BU:59:VAL:HG23	1.97	0.64
10:AA:1551:U:H2'	10:AA:1552:U:C6	2.32	0.64
26:AQ:2:ASP:O	26:AQ:6:GLN:HB2	1.98	0.64
10:AA:564:A:N1	21:AL:115:ASP:CB	2.58	0.64
32:AW:230:LEU:HD13	32:AW:238:ILE:HD12	1.78	0.64
10:BA:249:A:H5'	32:BW:134:GLY:HA2	1.80	0.64
25:BP:85:PRO:HA	32:BW:59:ARG:NH1	2.11	0.64
15:AF:26:ARG:HH21	15:AF:72:LYS:NZ	1.95	0.64
35:BZ:78:GLU:O	35:BZ:81:ILE:HG22	1.98	0.64
10:BA:215:A:H62	10:BA:811:U:H3	1.45	0.64
10:AA:147:G:O2'	10:AA:148:C:H5'	1.96	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
10:BA:585:A:H2'	10:BA:586:A:C8	2.32	0.64
10:AA:1257:U:O2'	10:AA:1258:U:OP2	2.13	0.64
10:AA:17:C:H5'	10:AA:1081:G:H5''	1.79	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
10:BA:603:U:OP2	10:BA:603:U:H6	1.80	0.64
16:AG:71:LEU:HD12	16:AG:71:LEU:O	1.98	0.64
10:AA:1473:G:N2	10:AA:1475:G:H3'	2.13	0.64
10:AA:1748:U:O2'	10:AA:1749:C:OP2	2.12	0.64
13:AD:37:LYS:HZ3	13:AD:126:ARG:HD2	1.62	0.64
24:AO:86:LEU:CD1	24:AO:87:PRO:HD2	2.18	0.64
11:AB:12:ARG:O	11:AB:15:ALA:HB3	1.98	0.64
10:BA:1001:A:O2'	10:BA:1002:U:H6	1.81	0.64
30:AU:94:ILE:CG2	30:AU:95:LYS:H	2.11	0.64
10:AA:223:C:H2'	10:AA:224:G:C8	2.31	0.64
12:BC:227:ILE:HG21	27:BR:246:THR:HG23	1.80	0.64
12:BC:165:GLN:N	12:BC:166:PRO:CD	2.60	0.64
12:AC:170:TYR:CZ	12:AC:205:VAL:HG11	2.33	0.64
2:B2:56:VAL:HG22	10:BA:324:A:P	2.37	0.64
18:BI:32:LYS:HB3	18:BI:68:ARG:HA	1.80	0.64
10:AA:1095:G:H21	10:AA:1098:A:H2	1.46	0.64
10:BA:1215:G:H2'	10:BA:1215:G:N3	2.13	0.64
10:AA:1696:U:O2'	10:AA:1697:G:H5'	1.97	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:133:ALA:O	21:BL:139:LYS:HB2	1.98	0.64
10:AA:726:U:C6	10:AA:792:G:N2	2.65	0.64
8:A8:80:ALA:O	8:A8:84:MET:HG3	1.97	0.64
31:BV:5:ARG:CB	31:BV:10:LYS:HE2	2.27	0.64
10:BA:45:A:C4'	10:BA:46:A:H5'	2.17	0.64
21:BL:58:ILE:CG2	21:BL:117:PRO:HG3	2.24	0.64
10:BA:937:U:H4'	10:BA:938:U:OP1	1.97	0.64
25:BP:3:ILE:HG22	25:BP:4:VAL:N	2.13	0.64
3:A3:127:LEU:O	3:A3:131:LEU:HG	1.98	0.64
10:AA:833:A:H2'	10:AA:834:A:OP1	1.98	0.64
13:AD:94:ASP:CB	14:AE:149:ILE:HD11	2.22	0.64
27:BR:95:SER:HB3	27:BR:97:ASP:OD1	1.97	0.64
27:AR:265:PRO:O	27:AR:266:LYS:HG3	1.98	0.64
10:AA:294:U:O2'	10:AA:295:U:H5'	1.96	0.64
21:BL:69:LYS:NZ	21:BL:92:LEU:HD23	2.12	0.64
17:AH:125:ILE:HG22	17:AH:126:LEU:N	2.11	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
16:AG:13:LEU:CD2	16:AG:104:LEU:HD21	2.28	0.64
13:AD:118:LEU:HD11	13:AD:158:PHE:CZ	2.33	0.64
11:AB:99:TRP:CH2	11:AB:103:THR:HB	2.32	0.64
34:BY:90:GLY:O	34:BY:92:ARG:HG3	1.97	0.64
30:BU:89:ASN:CG	30:BU:90:ALA:H	2.01	0.64
10:AA:1332:A:H2'	10:AA:1333:A:N9	2.13	0.64
28:AS:83:THR:HG23	28:AS:85:TYR:N	2.12	0.64
10:BA:89:A:C5	10:BA:390:A:C2	2.85	0.64
6:A6:40:ASN:HB2	6:A6:56:LYS:CD	2.27	0.64
25:BP:115:THR:HG21	25:BP:119:ALA:HB3	1.77	0.64
9:B9:124:PHE:CD1	9:B9:124:PHE:N	2.66	0.64
10:AA:173:A:H8	10:AA:173:A:H5'	1.62	0.64
3:B3:43:THR:HG21	3:B3:97:GLN:CD	2.18	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
12:AC:12:LYS:O	12:AC:15:VAL:HG12	1.97	0.64
10:BA:75:C:O4'	34:BY:178:LYS:HG2	1.97	0.64
1:B1:62:ARG:O	1:B1:63:GLU:HB3	1.98	0.64
10:BA:181:G:C3'	10:BA:182:U:H5'	2.27	0.64
26:BQ:2:ASP:O	26:BQ:6:GLN:HB2	1.98	0.64
10:BA:97:U:H2'	10:BA:98:U:C5'	2.28	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
10:BA:1013:G:O2'	10:BA:1014:A:H5'	1.98	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:204:GLN:C	32:BW:206:SER:H	2.00	0.64
1:B1:24:ILE:HD12	1:B1:24:ILE:H	1.63	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
32:BW:248:GLU:HB3	32:BW:252:GLU:HB2	1.80	0.64
10:AA:1648:C:H2'	10:AA:1649:U:O4'	1.96	0.64
11:BB:163:SER:HB3	11:BB:165:GLU:OE1	1.98	0.64
10:BA:12:U:H1'	10:BA:1272:A:N3	2.13	0.64
17:AH:35:LEU:HD21	17:AH:61:VAL:HG21	1.80	0.64
5:A5:85:VAL:O	5:A5:86:VAL:HB	1.97	0.64
10:BA:938:U:H5'	24:BO:57:ARG:HE	1.62	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:797:A:O2'	10:BA:798:G:H5'	1.98	0.64
15:BF:48:MET:HE1	15:BF:59:ALA:HB1	1.80	0.64
11:BB:5:ARG:CA	11:BB:5:ARG:HH11	2.07	0.64
10:AA:1606:C:H3'	10:AA:1606:C:H6	1.63	0.64
10:BA:623:U:H3	10:BA:948:A:N6	1.96	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
32:BW:230:LEU:CD1	32:BW:238:ILE:HD12	2.28	0.64
32:AW:143:THR:HG22	32:AW:145:ASP:H	1.63	0.64
12:BC:205:VAL:CG1	12:BC:206:LYS:H	2.10	0.64
33:BX:66:LYS:HD2	33:BX:69:LYS:HD2	1.79	0.64
18:AI:11:THR:HG21	18:AI:86:ALA:O	1.97	0.64
34:AY:90:GLY:O	34:AY:92:ARG:HG3	1.97	0.64
20:BK:103:VAL:CG1	20:BK:142:ARG:HG2	2.28	0.64
10:AA:1331:A:H2	10:AA:1334:U:H5	1.46	0.64
31:AV:107:LYS:HG2	31:AV:112:GLN:HB2	1.80	0.64
11:BB:172:TRP:HE1	11:BB:191:TRP:HD1	1.46	0.64
10:BA:123:A:H4'	10:BA:124:U:OP2	1.97	0.64
5:A5:84:ARG:HH12	10:AA:1125:A:H5'	1.63	0.64
10:AA:1594:G:H2'	10:AA:1595:C:C6	2.33	0.64
27:BR:317:TRP:CZ3	27:BR:324:LEU:HD22	2.33	0.64
13:AD:53:ARG:HG3	13:AD:97:LEU:HD22	1.80	0.63
14:BE:154:THR:HG21	14:BE:172:PRO:CA	2.12	0.63
6:A6:34:LYS:HB2	6:A6:76:ALA:HB3	1.78	0.63
10:BA:1583:A:C2	10:BA:1584:U:C4	2.86	0.63
16:BG:137:ALA:O	16:BG:141:ARG:HB2	1.98	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
13:BD:132:ARG:O	13:BD:134:ILE:N	2.30	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:BB:12:ARG:HB2	11:BB:169:MET:SD	2.39	0.63
27:BR:184:ALA:N	27:BR:206:ARG:HH22	1.93	0.63
10:AA:490:U:H2'	10:AA:491:U:O4'	1.98	0.63
26:BQ:17:LEU:CA	26:BQ:20:LYS:HE2	2.29	0.63
32:AW:42:LEU:HB2	32:AW:111:PHE:CD2	2.32	0.63
14:AE:69:LYS:HG2	14:AE:76:LYS:NZ	2.12	0.63
10:AA:1652:A:H2'	34:AY:65:GLN:HE21	1.63	0.63
10:BA:1606:C:H6	10:BA:1606:C:H3'	1.62	0.63
12:BC:47:THR:HG22	12:BC:48:LYS:HG3	1.80	0.63
10:AA:8:U:H3	10:AA:1112:A:N6	1.96	0.63
22:AM:28:THR:HG23	22:AM:58:ALA:HA	1.81	0.63
16:AG:133:ALA:HB2	16:AG:200:ARG:HB2	1.80	0.63
10:AA:1753:A:C8	10:AA:1753:A:OP1	2.48	0.63
9:B9:147:UNK:HG2	9:B9:148:UNK:N	2.13	0.63
3:A3:129:ASP:HA	3:A3:132:LEU:HD13	1.80	0.63
10:AA:797:A:O2'	10:AA:798:G:H5'	1.97	0.63
27:AR:146:ASN:C	27:AR:148:LEU:H	2.02	0.63
10:BA:626:U:OP1	26:BQ:101:LYS:HE3	1.99	0.63
12:AC:228:ARG:HB2	27:AR:207:TYR:HE2	1.64	0.63
5:A5:67:PRO:HG2	20:AK:129:ILE:O	1.98	0.63
10:AA:310:C:H6	10:AA:310:C:H5'	1.62	0.63
27:BR:75:HIS:ND1	27:BR:95:SER:HB2	2.13	0.63
10:BA:494:A:O2'	33:BX:47:PRO:HG3	1.98	0.63
16:BG:99:THR:O	16:BG:99:THR:HG22	1.98	0.63
14:BE:247:PHE:O	14:BE:249:HIS:N	2.31	0.63
32:AW:188:GLY:O	32:AW:191:ILE:HG23	1.98	0.63
2:A2:84:THR:HG22	2:A2:85:LYS:N	2.13	0.63
14:BE:107:ASP:O	14:BE:109:ASN:N	2.30	0.63
10:AA:1162:C:O2'	10:AA:1163:U:H5''	1.97	0.63
7:B7:63:PHE:HB2	7:B7:65:TYR:HE1	1.62	0.63
5:B5:26:CYS:SG	5:B5:28:ARG:HB3	2.38	0.63
25:BP:129:GLY:O	25:BP:130:ASP:HB2	1.97	0.63
29:BT:72:PRO:O	29:BT:73:HIS:HB2	1.98	0.63
3:B3:137:ILE:HD11	3:B3:189:ASP:OD1	1.97	0.63
13:BD:66:ASP:O	13:BD:70:LEU:HG	1.97	0.63
24:BO:55:ILE:HG23	24:BO:59:GLN:HG3	1.80	0.63
1:A1:11:ILE:HG12	1:A1:27:VAL:HG11	1.80	0.63
10:AA:8:U:H3	10:AA:1112:A:H62	1.46	0.63
10:AA:1069:U:C4	14:AE:202:GLN:HG3	2.34	0.63
14:BE:185:PRO:HG3	14:BE:211:PHE:CE2	2.33	0.63
10:AA:1752:U:O2'	10:AA:1753:A:O5'	2.14	0.63
10:BA:1278:C:N4	10:BA:1290:G:H1	1.94	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:262:G:H1	10:BA:280:U:H3	1.46	0.63
3:B3:144:ARG:HH21	3:B3:145:LEU:HG	1.63	0.63
9:A9:142:LYS:CE	9:A9:147:UNK:HB2	2.29	0.63
14:AE:231:TRP:CD1	17:AH:68:ARG:HG3	2.32	0.63
10:AA:1119:G:H4'	14:AE:91:THR:HA	1.80	0.63
26:BQ:8:ALA:HB3	26:BQ:11:LYS:HE2	1.81	0.63
10:AA:215:A:C6	10:AA:822:U:H1'	2.33	0.63
16:BG:106:VAL:HA	16:BG:176:GLU:OE1	1.98	0.63
26:AQ:27:THR:HG22	26:AQ:28:SER:N	2.11	0.63
10:BA:574:A:N6	10:BA:577:C:C2	2.65	0.63
10:AA:26:U:H2'	10:AA:27:A:C5'	2.25	0.63
22:BM:119:ILE:HG23	28:BS:124:PHE:HE2	1.62	0.63
27:BR:129:ASP:O	27:BR:131:ARG:N	2.32	0.63
26:BQ:70:ILE:HG22	26:BQ:71:LYS:N	2.13	0.63
32:AW:203:HIS:O	32:AW:205:GLY:N	2.23	0.63
34:BY:102:VAL:HG11	34:BY:109:LEU:HD11	1.80	0.63
19:AJ:93:CYS:HB3	19:AJ:97:ASP:HB2	1.79	0.63
4:B4:155:SER:H	4:B4:158:SER:HB2	1.63	0.63
32:BW:210:CYS:HB3	32:BW:227:ILE:HD11	1.80	0.63
13:AD:66:ASP:O	13:AD:70:LEU:HG	1.98	0.63
28:BS:31:GLU:HG3	28:BS:32:LYS:H	1.63	0.63
10:BA:18:C:O2'	10:BA:19:A:H5'	1.97	0.63
8:A8:43:VAL:CG1	22:AM:57:ARG:HD2	2.28	0.63
10:BA:1752:U:O2'	10:BA:1753:A:O5'	2.13	0.63
10:BA:1340:G:N2	10:BA:1341:U:H1'	2.12	0.63
34:BY:136:LYS:O	34:BY:179:ILE:HG23	1.97	0.63
10:AA:1731:G:C3'	10:AA:1732:U:H5''	2.28	0.63
3:A3:178:THR:HG21	3:A3:180:ARG:CD	2.29	0.63
27:AR:168:VAL:O	27:AR:169:ARG:HD3	1.97	0.63
27:BR:51:VAL:HB	27:BR:72:LEU:HD12	1.80	0.63
17:AH:3:LYS:O	17:AH:4:VAL:HG13	1.99	0.63
10:AA:297:U:OP1	26:AQ:104:ARG:HD3	1.97	0.63
32:AW:11:ARG:HH12	32:AW:20:LEU:HD22	1.63	0.63
10:AA:97:U:H2'	10:AA:98:U:C5'	2.28	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
5:A5:26:CYS:SG	5:A5:28:ARG:HB3	2.38	0.63
4:A4:155:SER:H	4:A4:158:SER:HB2	1.62	0.63
10:AA:968:C:H2'	10:AA:969:A:O4'	1.98	0.63
3:A3:43:THR:HG21	3:A3:97:GLN:CD	2.19	0.63
2:B2:178:SER:O	2:B2:180:PRO:HD3	1.97	0.63
2:B2:121:TYR:CD2	2:B2:129:LEU:HD11	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:9:LYS:H	25:AP:22:SER:HB2	1.63	0.63
18:AI:44:GLN:CA	18:AI:47:GLN:HE21	1.99	0.63
10:AA:1419:G:H2'	10:AA:1420:U:O4'	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
8:B8:66:VAL:O	8:B8:70:VAL:HG23	1.98	0.63
10:BA:1430:C:O2'	10:BA:1431:A:C5'	2.47	0.63
9:A9:157:UNK:O	9:A9:160:UNK:HG3	1.98	0.63
3:A3:95:THR:CG2	3:A3:96:ALA:N	2.62	0.63
10:AA:1252:C:O2'	19:AJ:68:SER:HB2	1.99	0.63
7:B7:11:ARG:HG3	7:B7:15:GLN:HE21	1.64	0.63
10:BA:490:U:H2'	10:BA:491:U:O4'	1.98	0.63
16:BG:13:LEU:HD12	16:BG:14:PHE:H	1.64	0.63
2:A2:39:THR:HG21	2:A2:48:LYS:HD3	1.80	0.63
32:BW:49:LYS:NZ	32:BW:58:GLY:HA2	2.14	0.63
25:BP:140:SER:HA	25:BP:143:LEU:CD1	2.26	0.63
10:BA:735:G:H22	10:BA:780:G:H1	1.44	0.63
28:BS:91:ILE:HG23	28:BS:92:PRO:HD2	1.80	0.63
7:A7:52:ARG:HB2	7:A7:54:PHE:CE1	2.33	0.63
18:BI:120:VAL:HG12	18:BI:121:ALA:N	2.12	0.63
10:AA:689:A:H2'	10:AA:690:A:C8	2.34	0.63
25:BP:115:THR:HG22	25:BP:116:SER:H	1.63	0.63
1:A1:10:ARG:HB2	1:A1:53:ASP:O	1.98	0.63
22:AM:107:THR:HA	22:AM:110:ARG:HD2	1.80	0.63
34:AY:1:MET:HE3	34:AY:109:LEU:HG	1.81	0.63
34:BY:199:THR:O	34:BY:203:VAL:HG23	1.97	0.63
10:AA:766:G:N2	10:AA:767:C:C2	2.67	0.63
10:AA:426:G:OP1	21:AL:77:LYS:HB2	1.99	0.63
31:BV:5:ARG:HD3	31:BV:5:ARG:N	2.13	0.63
10:BA:133:A:C4'	10:BA:134:C:H5'	2.23	0.63
10:BA:884:A:OP1	20:BK:66:ARG:HG2	1.98	0.63
12:BC:12:LYS:O	12:BC:15:VAL:HG12	1.98	0.63
18:AI:129:LYS:HA	18:AI:136:ALA:HA	1.81	0.63
3:A3:123:TYR:CD2	3:A3:178:THR:HG23	2.33	0.63
10:AA:929:A:C2'	10:AA:930:A:H5'	2.29	0.63
10:AA:408:C:H4'	10:AA:409:G:O5'	1.99	0.63
27:BR:268:GLN:HB3	27:BR:284:MET:HE3	1.81	0.63
10:BA:408:C:H4'	10:BA:409:G:O5'	1.98	0.63
26:AQ:71:LYS:HB3	26:AQ:157:PHE:CE2	2.34	0.63
32:BW:102:ARG:HE	32:BW:238:ILE:HG21	1.63	0.63
32:BW:73:PHE:CE2	32:BW:78:VAL:HG22	2.34	0.63
34:BY:90:GLY:C	34:BY:92:ARG:H	2.02	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AL:62:GLN:CB	21:AL:63:PRO:CD	2.77	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
2:A2:155:LYS:HD3	2:A2:157:GLN:OE1	1.98	0.63
32:AW:204:GLN:C	32:AW:206:SER:H	2.01	0.63
10:BA:1101:C:H2'	10:BA:1102:U:O4'	1.98	0.63
25:AP:115:THR:HG21	25:AP:119:ALA:HB3	1.79	0.63
10:BA:371:U:O2	10:BA:371:U:H2'	1.97	0.63
10:AA:1645:C:H42	10:AA:1680:A:H61	1.46	0.63
10:AA:1069:U:O2'	10:AA:1070:U:OP1	2.14	0.63
13:BD:20:GLU:HB2	13:BD:23:ARG:HB3	1.79	0.63
8:A8:65:THR:HG21	16:AG:166:GLU:OE2	1.99	0.63
10:BA:1476:A:H2'	10:BA:1477:A:H5'	1.79	0.63
29:BT:45:VAL:H	29:BT:100:HIS:CD2	2.16	0.63
10:AA:444:A:C2'	10:AA:445:U:H5'	2.29	0.63
25:AP:21:LEU:H	25:AP:21:LEU:HD23	1.63	0.63
10:BA:769:C:O3'	32:BW:257:LYS:NZ	2.32	0.63
10:BA:1580:U:C5'	18:BI:74:SER:HB2	2.27	0.63
27:BR:255:GLY:H	27:BR:279:LYS:HE3	1.64	0.63
17:BH:5:ASN:OD1	17:BH:7:LEU:HB3	1.98	0.63
9:A9:147:UNK:HG2	9:A9:148:UNK:N	2.14	0.63
1:A1:18:THR:CG2	1:A1:19:GLY:H	2.08	0.63
1:A1:20:SER:C	1:A1:22:GLY:H	2.01	0.63
30:AU:79:LEU:HD13	30:AU:103:LEU:HD21	1.80	0.63
4:B4:34:PHE:HE1	4:B4:89:LEU:HD12	1.64	0.63
17:AH:5:ASN:OD1	17:AH:7:LEU:HB3	1.99	0.63
10:BA:1469:U:H4'	29:BT:126:LYS:HB3	1.80	0.63
2:B2:140:ASN:ND2	10:BA:182:U:H3	1.96	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
26:BQ:22:LEU:HD21	26:BQ:27:THR:HG23	1.81	0.63
11:BB:99:TRP:CH2	11:BB:103:THR:HB	2.33	0.63
8:B8:27:LYS:HG2	10:BA:1509:U:H5	1.64	0.63
27:AR:86:GLN:HB2	27:AR:130:ASN:HD21	1.64	0.63
7:A7:38:PRO:HB2	7:A7:41:HIS:HD2	1.62	0.63
18:BI:57:LEU:HD23	18:BI:110:GLN:HG2	1.81	0.63
34:AY:1:MET:HE3	34:AY:109:LEU:CG	2.29	0.63
12:AC:36:GLY:O	12:AC:55:ALA:HA	1.99	0.63
32:AW:36:HIS:CG	32:AW:87:GLY:HA3	2.34	0.63
10:AA:1504:U:O2'	10:AA:1505:C:H5'	1.99	0.63
12:AC:67:LYS:O	12:AC:71:GLU:HG3	1.99	0.63
28:BS:83:THR:HG23	28:BS:85:TYR:H	1.64	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:36:HIS:CG	32:BW:87:GLY:HA3	2.34	0.63
10:AA:18:C:O2'	10:AA:19:A:H5'	1.98	0.63
13:AD:20:GLU:HB2	13:AD:23:ARG:HB3	1.80	0.63
10:BA:1069:U:C4	14:BE:202:GLN:HG3	2.34	0.63
21:BL:19:ARG:HH11	21:BL:19:ARG:CA	2.08	0.63
10:AA:1474:G:O2'	29:AT:42:THR:HG21	1.99	0.63
29:AT:56:TRP:HA	29:AT:59:ILE:HD12	1.80	0.63
10:BA:1008:A:H5''	10:BA:1009:U:OP2	1.98	0.63
10:AA:1603:A:H62	10:AA:1717:C:C4'	2.12	0.63
27:BR:276:GLN:O	27:BR:294:ILE:HG23	1.99	0.63
11:BB:12:ARG:O	11:BB:15:ALA:HB3	1.99	0.63
3:A3:68:GLN:NE2	10:AA:835:U:OP1	2.32	0.63
9:B9:126:ALA:HB2	10:BA:1224:C:O4'	1.99	0.63
10:BA:1225:U:OP2	30:BU:30:HIS:HE1	1.81	0.63
2:A2:22:ARG:HD2	2:A2:25:ARG:CZ	2.29	0.63
27:BR:75:HIS:NE2	27:BR:101:ARG:HG3	2.14	0.63
10:BA:339:C:O2'	10:BA:340:A:H5'	1.99	0.63
10:BA:904:A:H2'	10:BA:905:C:H6	1.64	0.63
10:BA:212:A:H5''	10:BA:214:U:O4	1.98	0.63
10:BA:564:A:N1	21:BL:115:ASP:CB	2.58	0.63
32:BW:108:LYS:CG	32:BW:110:ARG:HH21	2.11	0.63
16:AG:99:THR:HG22	16:AG:99:THR:O	1.99	0.63
10:BA:26:U:H2'	10:BA:27:A:C5'	2.26	0.63
10:BA:897:A:O2'	10:BA:898:U:H5'	1.99	0.63
34:AY:66:GLY:O	34:AY:68:MET:N	2.32	0.63
10:BA:224:G:C2'	10:BA:225:C:H5'	2.29	0.63
34:BY:67:VAL:HG13	34:BY:67:VAL:O	1.99	0.63
33:AX:44:ARG:HG3	33:AX:45:TYR:N	2.14	0.63
13:BD:171:ARG:HB3	13:BD:175:LYS:NZ	2.12	0.63
13:AD:100:THR:HG22	13:AD:102:HIS:H	1.64	0.63
34:BY:1:MET:HE3	34:BY:109:LEU:HG	1.81	0.63
14:AE:192:ALA:HB3	14:AE:194:VAL:HG23	1.80	0.63
35:AZ:32:CYS:HB2	35:AZ:70:CYS:HB3	1.81	0.63
10:AA:1583:A:C2	10:AA:1584:U:C4	2.86	0.63
16:AG:137:ALA:HB1	16:AG:138:PRO:HD2	1.80	0.63
10:AA:262:G:H1	10:AA:280:U:H3	1.47	0.63
12:AC:15:VAL:HG11	23:AN:34:GLU:CB	2.25	0.63
6:A6:77:PHE:CD1	6:A6:77:PHE:O	2.52	0.63
16:AG:193:GLU:O	16:AG:197:LYS:HG3	1.99	0.63
20:AK:75:MET:HE2	20:AK:121:ARG:HH22	1.64	0.63
14:BE:224:ARG:CD	35:BZ:40:PHE:HZ	2.12	0.63
10:BA:1171:G:HO2'	10:BA:1172:G:P	2.21	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:833:A:C2'	10:BA:834:A:OP1	2.47	0.63
30:AU:36:ILE:HG23	30:AU:68:ILE:HD12	1.81	0.63
9:B9:98:LEU:HB3	9:B9:100:PHE:HE1	1.63	0.63
10:AA:392:A:H3'	10:AA:393:C:O4'	1.99	0.63
27:BR:51:VAL:HG13	27:BR:82:LEU:HD11	1.80	0.63
22:AM:93:LYS:O	28:AS:16:LYS:HB2	1.99	0.63
29:AT:75:GLY:O	29:AT:79:LEU:HD12	1.98	0.63
17:AH:17:ALA:HA	17:AH:22:LYS:HE3	1.81	0.63
10:AA:1465:C:H2'	10:AA:1466:C:C5'	2.28	0.63
10:AA:181:G:C3'	10:AA:182:U:H5'	2.29	0.63
10:BA:1360:U:H2'	31:BV:3:ARG:NH1	2.12	0.63
10:AA:1064:A:H4'	10:AA:1065:A:OP1	1.97	0.63
28:AS:78:PRO:HB2	28:AS:98:ILE:HG12	1.80	0.63
11:BB:144:CYS:SG	11:BB:156:VAL:HG13	2.39	0.63
10:BA:1605:A:O2'	10:BA:1606:C:P	2.56	0.63
17:AH:130:TYR:HD1	17:AH:130:TYR:O	1.82	0.63
32:AW:210:CYS:HB3	32:AW:227:ILE:HD11	1.80	0.63
10:AA:760:G:N2	10:AA:766:G:H1	1.95	0.62
25:AP:10:ILE:HG12	25:AP:21:LEU:CB	2.29	0.62
10:BA:1123:G:N2	10:BA:1720:G:H5'	2.14	0.62
10:AA:845:G:OP1	24:AO:5:GLN:HB3	1.99	0.62
10:BA:1030:A:H2'	10:BA:1031:A:H8	1.61	0.62
13:AD:38:ASN:ND2	13:AD:40:ARG:HD2	2.14	0.62
10:AA:1366:G:C2'	10:AA:1367:C:H5'	2.29	0.62
31:AV:58:MET:O	31:AV:62:GLN:HG2	1.98	0.62
24:BO:117:LEU:HD21	24:BO:121:GLU:OE1	1.99	0.62
28:AS:42:PHE:CE2	28:AS:118:GLY:HA2	2.34	0.62
12:BC:225:LYS:HD3	27:BR:209:PHE:CE1	2.34	0.62
12:AC:205:VAL:CG1	12:AC:206:LYS:H	2.11	0.62
14:AE:107:ASP:OD1	14:AE:111:HIS:HB2	1.99	0.62
10:AA:243:G:H1'	32:AW:204:GLN:HE21	1.63	0.62
29:BT:117:ILE:HG23	29:BT:130:ARG:HB3	1.80	0.62
10:BA:1102:U:H2'	10:BA:1103:G:H5'	1.80	0.62
21:AL:133:ALA:O	21:AL:139:LYS:HB2	1.99	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:AA:599:A:C5'	10:AA:600:A:H5''	2.29	0.62
10:AA:81:A:O2'	25:AP:117:GLY:HA3	1.98	0.62
24:AO:15:GLY:O	24:AO:16:SER:HB2	1.98	0.62
10:AA:1719:A:H1'	10:AA:1747:A:C4	2.35	0.62
10:BA:1419:G:H5'	10:BA:1419:G:H8	1.62	0.62
10:BA:942:U:O2'	10:BA:943:U:C5'	2.47	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:B8:43:VAL:HB	22:BM:25:LYS:NZ	2.14	0.62
1:B1:7:THR:HG23	1:B1:33:SER:CB	2.28	0.62
16:BG:133:ALA:HB2	16:BG:200:ARG:HB2	1.81	0.62
25:AP:3:ILE:CG2	25:AP:4:VAL:N	2.61	0.62
9:A9:98:LEU:HB3	9:A9:100:PHE:HE1	1.63	0.62
34:AY:132:LYS:NZ	34:AY:163:ARG:CB	2.62	0.62
10:AA:215:A:N6	10:AA:811:U:H3	1.93	0.62
32:BW:144:HIS:C	32:BW:146:SER:H	2.02	0.62
10:BA:104:A:C2	10:BA:298:G:C2	2.87	0.62
11:AB:4:GLN:HA	11:AB:7:GLN:HG3	1.80	0.62
10:AA:733:G:H1	10:AA:782:A:H61	1.44	0.62
10:AA:527:A:H5''	13:AD:168:ARG:HH22	1.63	0.62
9:A9:81:THR:HG21	9:A9:83:LYS:HG2	1.81	0.62
32:BW:207:PHE:HE2	32:BW:223:ARG:CZ	2.11	0.62
10:BA:1188:A:C8	10:BA:1188:A:O5'	2.52	0.62
10:AA:1188:A:O5'	10:AA:1188:A:H8	1.82	0.62
18:AI:57:LEU:HD23	18:AI:110:GLN:HG2	1.81	0.62
32:AW:36:HIS:CD2	32:AW:87:GLY:HA3	2.32	0.62
10:BA:1504:U:O2'	10:BA:1505:C:H5'	1.99	0.62
3:A3:137:ILE:HD11	3:A3:189:ASP:OD1	1.98	0.62
15:AF:16:GLN:NE2	22:BM:144:HIS:NE2	2.46	0.62
17:BH:101:ASN:HB2	17:BH:129:PHE:O	1.98	0.62
16:AG:163:SER:N	16:AG:166:GLU:OE1	2.28	0.62
10:BA:1475:G:P	29:BT:102:LYS:HB2	2.40	0.62
10:AA:72:G:C2	10:AA:75:C:N4	2.67	0.62
10:AA:746:A:C5	10:AA:747:G:N7	2.67	0.62
16:BG:193:GLU:O	16:BG:197:LYS:HG3	1.99	0.62
13:BD:110:GLN:HG3	13:BD:126:ARG:NE	2.14	0.62
9:A9:97:ALA:O	9:A9:98:LEU:HD12	2.00	0.62
27:AR:107:THR:C	27:AR:109:THR:H	2.03	0.62
16:BG:13:LEU:CD2	16:BG:104:LEU:HD21	2.30	0.62
22:BM:125:LEU:CG	22:BM:129:TRP:HE1	2.12	0.62
28:AS:58:TYR:O	28:AS:62:VAL:HG23	1.99	0.62
10:AA:325:U:O2'	10:AA:326:U:H5'	1.99	0.62
10:BA:1462:U:C5	10:BA:1464:U:C4	2.82	0.62
32:BW:126:LEU:HB3	32:BW:143:THR:HG21	1.80	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:AA:291:A:H2'	10:AA:292:G:H8	1.64	0.62
32:BW:11:ARG:HG2	32:BW:27:TRP:O	2.00	0.62
7:A7:54:PHE:CE2	7:A7:75:TYR:HB2	2.34	0.62
10:BA:1492:U:O2'	10:BA:1493:A:P	2.57	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:132:LYS:HZ2	22:AM:135:GLY:HA3	1.63	0.62
16:BG:26:ASP:OD1	16:BG:28:CYS:HB3	1.99	0.62
21:BL:6:PRO:HG2	21:BL:15:LEU:HD21	1.81	0.62
10:AA:1266:G:O4'	11:AB:106:ASN:HB2	2.00	0.62
4:A4:95:ASP:HB2	4:A4:100:LYS:HE3	1.80	0.62
11:BB:174:ILE:O	11:BB:178:VAL:HG23	1.98	0.62
19:BJ:39:VAL:HG12	19:BJ:43:LYS:HE3	1.81	0.62
10:AA:603:U:H6	10:AA:603:U:OP2	1.82	0.62
10:AA:1721:G:H21	20:AK:151:LEU:HD11	1.63	0.62
10:BA:1263:G:C5'	14:BE:120:LYS:HE3	2.19	0.62
10:BA:63:U:O2'	10:BA:162:A:H1'	1.99	0.62
10:AA:1366:G:N2	10:AA:1373:G:N2	2.46	0.62
17:BH:11:LEU:HD12	17:BH:74:VAL:HG22	1.81	0.62
8:B8:80:ALA:O	8:B8:84:MET:HG3	1.99	0.62
10:AA:1425:G:O3'	28:AS:127:THR:HG21	2.00	0.62
3:B3:130:LEU:C	3:B3:132:LEU:H	2.03	0.62
10:AA:246:U:OP2	26:AQ:33:TYR:OH	2.17	0.62
10:AA:388:A:O2'	10:AA:389:G:H5'	1.99	0.62
32:AW:49:LYS:NZ	32:AW:58:GLY:HA2	2.13	0.62
11:BB:4:GLN:HA	11:BB:7:GLN:HG3	1.80	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
26:AQ:146:ILE:CD1	26:AQ:153:GLN:HG2	2.30	0.62
10:BA:527:A:H2'	10:BA:528:G:H8	1.63	0.62
9:B9:83:LYS:HG3	9:B9:84:LYS:H	1.63	0.62
17:AH:94:LEU:HD13	17:AH:100:GLY:HA2	1.82	0.62
10:BA:1331:A:H2	10:BA:1334:U:H5	1.47	0.62
32:BW:204:GLN:O	32:BW:206:SER:N	2.32	0.62
1:B1:46:LYS:HG3	1:B1:46:LYS:O	1.97	0.62
27:BR:212:HIS:HB3	27:BR:234:ASP:OD2	1.99	0.62
25:BP:147:VAL:O	25:BP:148:ALA:HB2	1.99	0.62
8:A8:51:GLU:OE1	8:A8:51:GLU:HA	1.98	0.62
27:BR:174:MET:CE	27:BR:178:ASN:HB2	2.29	0.62
14:BE:180:VAL:HG23	14:BE:197:ILE:O	2.00	0.62
8:A8:45:ILE:HD12	22:AM:1:MET:HE3	1.81	0.62
10:AA:761:U:C2	25:AP:7:THR:HG23	2.33	0.62
10:BA:1556:G:C5	18:BI:124:ARG:NH1	2.67	0.62
10:BA:1582:G:O2'	10:BA:1583:A:H8	1.83	0.62
10:BA:1340:G:C3'	10:BA:1341:U:H5''	2.29	0.62
10:BA:72:G:C2	10:BA:75:C:N4	2.67	0.62
10:AA:1215:G:N3	10:AA:1215:G:H2'	2.13	0.62
10:AA:466:A:H62	13:AD:40:ARG:HH22	1.48	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:883:A:H5'	20:BK:66:ARG:HB3	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
20:AK:38:ASN:O	20:AK:68:GLU:HG3	1.99	0.62
34:BY:23:LYS:HD3	34:BY:41:LEU:CD2	2.24	0.62
25:BP:2:THR:CG2	25:BP:3:ILE:H	1.96	0.62
33:BX:44:ARG:HG3	33:BX:45:TYR:N	2.14	0.62
30:AU:94:ILE:CG2	30:AU:95:LYS:N	2.62	0.62
22:AM:125:LEU:HD23	22:AM:129:TRP:HE1	1.65	0.62
21:BL:60:SER:OG	21:BL:64:ASN:HB2	1.99	0.62
10:BA:1140:U:H3'	10:BA:1141:G:H8	1.63	0.62
12:BC:227:ILE:HG12	27:BR:209:PHE:CE1	2.35	0.62
2:B2:39:THR:HG21	2:B2:48:LYS:HA	1.81	0.62
10:BA:781:C:O2	10:BA:781:C:H2'	1.99	0.62
10:AA:781:C:O2	10:AA:781:C:H2'	1.99	0.62
10:BA:553:A:C6	12:BC:181:LYS:HB3	2.34	0.62
10:BA:1299:C:H4'	12:BC:162:CYS:SG	2.39	0.62
2:B2:141:LYS:HZ1	2:B2:143:LYS:HE2	1.64	0.62
10:BA:1562:G:H5'	29:BT:94:ASN:O	2.00	0.62
29:BT:101:GLY:O	29:BT:105:ARG:HG2	1.99	0.62
11:BB:64:GLN:HG2	14:BE:245:SER:CB	2.29	0.62
10:AA:804:A:H2'	10:AA:805:G:H8	1.63	0.62
6:A6:57:CYS:SG	6:A6:58:SER:N	2.72	0.62
11:BB:116:ARG:HG3	14:BE:242:GLU:OE2	2.00	0.62
19:BJ:72:GLU:OE1	19:BJ:73:GLY:N	2.32	0.62
16:AG:177:LYS:O	16:AG:178:ASN:HB2	1.98	0.62
28:AS:31:GLU:HG3	28:AS:32:LYS:H	1.64	0.62
32:BW:213:LYS:HG2	32:BW:214:ASP:N	2.15	0.62
17:BH:77:PRO:HB2	21:BL:9:ILE:HG13	1.82	0.62
10:AA:141:A:N6	10:AA:142:A:N1	2.47	0.62
25:BP:19:ARG:NE	25:BP:73:VAL:HG11	2.14	0.62
10:AA:43:U:H3'	10:AA:44:U:H5'	1.82	0.62
17:BH:125:ILE:HG22	17:BH:126:LEU:N	2.13	0.62
10:BA:1731:G:C3'	10:BA:1732:U:H5''	2.29	0.62
10:BA:1486:U:H5'	10:BA:1487:A:C2	2.35	0.62
1:B1:12:MET:HB2	1:B1:30:VAL:HG23	1.81	0.62
4:A4:34:PHE:HD2	4:A4:45:PHE:O	1.83	0.62
16:BG:22:VAL:HG22	16:BG:105:GLU:HB2	1.81	0.62
17:AH:2:VAL:HG12	17:AH:3:LYS:N	2.10	0.62
10:BA:191:A:H2'	10:BA:192:C:H6	1.65	0.62
10:BA:1259:A:N6	10:BA:1301:A:H5'	2.14	0.62
32:AW:144:HIS:C	32:AW:146:SER:H	2.03	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:191:A:H2'	10:AA:192:C:H6	1.62	0.62
2:B2:29:LYS:HZ3	10:BA:391:A:N6	1.98	0.62
28:BS:86:ARG:NH1	28:BS:122:ALA:HB1	2.15	0.62
10:BA:1054:U:H4'	10:BA:1055:G:OP1	1.99	0.62
11:AB:51:GLN:HE22	35:AZ:95:ILE:HB	1.64	0.62
6:A6:38:CYS:O	6:A6:39:GLN:HB2	1.99	0.62
2:B2:128:ASP:O	2:B2:129:LEU:HB2	2.00	0.62
2:A2:169:SER:O	2:A2:170:GLN:HB2	2.00	0.62
24:BO:68:LEU:HD23	24:BO:68:LEU:C	2.20	0.62
10:AA:728:U:C2'	10:AA:729:U:H5'	2.29	0.62
30:AU:14:LYS:O	30:AU:18:SER:HB3	1.99	0.62
3:B3:82:ILE:HG22	3:B3:86:LYS:HE3	1.82	0.62
28:BS:24:LEU:HG	28:BS:37:GLU:HB3	1.81	0.62
14:BE:154:THR:CG2	14:BE:155:ILE:N	2.43	0.62
10:BA:1:A:H2'	14:BE:180:VAL:CG1	2.29	0.62
10:AA:132:U:H1'	34:AY:149:LYS:NZ	2.15	0.62
10:BA:1603:A:H62	10:BA:1717:C:C4'	2.11	0.62
5:B5:77:ILE:HG12	10:BA:1746:G:O6	1.98	0.62
9:A9:146:UNK:CA	9:A9:149:UNK:HG3	2.30	0.62
10:BA:145:G:N2	10:BA:157:G:N2	2.40	0.62
8:A8:95:LYS:NZ	8:A8:98:LYS:HD2	2.15	0.62
27:BR:111:TYR:CD1	27:BR:112:LYS:HG2	2.35	0.62
10:AA:77:G:O2'	10:AA:78:C:H5'	1.99	0.62
10:AA:236:U:C2'	10:AA:237:U:H5''	2.30	0.62
10:BA:77:G:O2'	10:BA:78:C:H5'	1.99	0.62
28:AS:66:ARG:NH1	28:AS:93:GLU:HB3	2.15	0.62
10:AA:859:A:H8	10:AA:859:A:C5'	2.12	0.62
10:AA:1469:U:H4'	29:AT:126:LYS:HB3	1.80	0.62
17:AH:11:LEU:HD12	17:AH:74:VAL:HG22	1.80	0.62
16:AG:106:VAL:HA	16:AG:176:GLU:OE1	1.99	0.62
34:BY:70:ARG:HH21	34:BY:104:PRO:CD	2.12	0.62
34:BY:98:ARG:HG2	34:BY:106:MET:HE1	1.81	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
7:A7:69:ASN:ND2	7:A7:71:GLU:HB2	2.14	0.62
32:BW:163:LYS:HD2	32:BW:237:TRP:CE3	2.34	0.62
32:AW:207:PHE:HE2	32:AW:223:ARG:CZ	2.13	0.62
10:AA:1054:U:H4'	10:AA:1055:G:OP1	1.99	0.62
27:AR:212:HIS:HB3	27:AR:234:ASP:OD2	2.00	0.62
10:BA:728:U:O2'	10:BA:729:U:H5'	2.00	0.62
10:BA:371:U:O2'	10:BA:372:C:OP1	2.17	0.62
15:AF:78:ARG:NH1	15:AF:100:GLY:HA3	2.15	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AF:65:ASP:O	15:AF:67:GLY:N	2.32	0.62
14:AE:154:THR:HG23	14:AE:197:ILE:HG22	1.81	0.62
17:BH:76:SER:CB	17:BH:77:PRO:HD3	2.28	0.62
10:BA:757:C:C5	10:BA:770:G:C2	2.88	0.62
10:BA:1753:A:OP1	10:BA:1753:A:O4'	2.18	0.62
6:A6:34:LYS:HG2	6:A6:41:ILE:CG1	2.26	0.62
1:A1:7:THR:HG22	1:A1:31:LEU:HD22	1.82	0.62
29:BT:143:ILE:O	29:BT:147:ILE:HG13	2.00	0.62
10:BA:1419:G:H2'	10:BA:1420:U:O4'	2.00	0.62
10:BA:630:A:H2'	10:BA:631:C:C5'	2.28	0.62
9:A9:159:UNK:C	9:A9:162:UNK:HG3	2.30	0.62
3:A3:178:THR:CG2	3:A3:180:ARG:HG3	2.30	0.62
28:BS:58:TYR:O	28:BS:62:VAL:HG23	1.99	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
4:B4:34:PHE:HD2	4:B4:45:PHE:O	1.82	0.62
16:BG:21:GLU:HG2	16:BG:102:ASN:HB2	1.81	0.62
10:BA:746:A:C5	10:BA:747:G:N7	2.68	0.62
29:BT:124:ALA:HA	29:BT:127:LYS:HE2	1.81	0.62
10:AA:865:A:H2'	10:AA:866:U:C6	2.35	0.62
10:BA:538:A:O2'	10:BA:539:U:O4'	2.17	0.62
34:BY:77:LEU:O	34:BY:92:ARG:HA	2.00	0.62
7:A7:40:LEU:HG	10:AA:1189:A:C2	2.35	0.62
6:B6:38:CYS:O	6:B6:39:GLN:HB2	2.00	0.62
31:AV:72:LYS:HA	31:AV:76:GLU:HB2	1.81	0.62
2:A2:117:PHE:CE2	2:A2:190:ILE:HD11	2.34	0.62
10:BA:139:A:O2'	10:BA:140:U:H5'	1.99	0.62
13:AD:17:ARG:HB3	13:AD:20:GLU:HG3	1.80	0.62
10:AA:538:A:O2'	10:AA:539:U:O4'	2.17	0.62
8:A8:60:VAL:HG13	8:A8:72:LYS:CG	2.30	0.62
8:A8:43:VAL:HA	8:A8:79:LEU:HD12	1.81	0.62
22:BM:82:PRO:HD3	29:BT:40:TRP:CE2	2.34	0.62
32:BW:254:ARG:HH11	32:BW:254:ARG:HB3	1.63	0.62
31:AV:63:LYS:C	31:AV:65:PRO:HD2	2.20	0.62
25:BP:3:ILE:CG2	25:BP:4:VAL:N	2.63	0.62
10:AA:1252:C:H2'	10:AA:1253:G:H8	1.65	0.62
10:AA:1175:A:N1	10:AA:1527:A:C5	2.68	0.62
14:BE:231:TRP:HZ3	35:BZ:8:GLN:CB	2.13	0.62
27:BR:107:THR:C	27:BR:109:THR:H	2.03	0.62
27:BR:127:SER:HA	27:BR:170:TYR:CD2	2.35	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:224:G:C2'	10:AA:225:C:H5'	2.29	0.62
10:BA:1468:G:O2'	29:BT:126:LYS:HE2	1.99	0.62
10:AA:341:G:H5''	10:AA:342:U:H3'	1.81	0.62
2:A2:110:VAL:HG12	2:A2:111:GLU:N	2.11	0.62
27:BR:285:THR:HG22	27:BR:286:GLN:N	2.13	0.62
2:B2:110:VAL:HG12	2:B2:111:GLU:N	2.12	0.62
32:AW:230:LEU:CD1	32:AW:238:ILE:HD12	2.30	0.62
32:AW:125:LEU:HD12	32:AW:238:ILE:HD11	1.80	0.62
13:BD:118:LEU:HD11	13:BD:158:PHE:CZ	2.34	0.62
10:AA:735:G:H22	10:AA:780:G:H1	1.47	0.62
3:A3:15:ILE:H	3:A3:15:ILE:HD12	1.63	0.62
13:AD:65:LYS:HA	13:AD:70:LEU:HD21	1.81	0.62
24:BO:13:ILE:HG22	24:BO:14:SER:O	1.99	0.62
22:BM:113:LEU:HD23	22:BM:113:LEU:N	2.14	0.62
10:AA:1110:A:O2'	10:AA:1111:A:O4'	2.18	0.62
14:AE:182:ALA:HB1	14:AE:183:PRO:HD2	1.80	0.62
14:AE:159:ILE:CD1	14:AE:222:THR:HA	2.29	0.62
4:A4:123:LEU:HD13	4:A4:145:PHE:CZ	2.34	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
31:BV:58:MET:CE	31:BV:58:MET:HA	2.30	0.62
10:BA:83:C:C3'	10:BA:84:U:H5''	2.30	0.62
9:B9:146:UNK:CA	9:B9:149:UNK:HG3	2.30	0.62
20:BK:36:THR:HG22	20:BK:37:TRP:H	1.64	0.62
6:B6:62:CYS:HB3	6:B6:69:VAL:HG12	1.80	0.62
10:BA:796:U:C2'	10:BA:797:A:H5'	2.23	0.62
15:BF:17:THR:O	15:BF:95:ASN:HB3	2.00	0.62
20:AK:21:VAL:CG1	20:AK:22:GLY:H	2.07	0.62
11:BB:186:SER:OG	11:BB:189:GLU:HB3	2.00	0.62
10:AA:1171:G:H1'	19:AJ:66:ARG:CZ	2.30	0.62
11:AB:139:PRO:HB3	35:AZ:47:VAL:HG21	1.81	0.62
10:AA:89:A:C5	10:AA:390:A:C2	2.88	0.62
4:A4:112:ARG:O	4:A4:115:SER:HB3	1.98	0.62
1:B1:36:GLU:O	1:B1:37:GLU:CB	2.45	0.62
10:AA:1671:G:H2'	10:AA:1672:G:H8	1.65	0.62
10:AA:559:C:H2'	10:AA:559:C:O2	2.00	0.62
29:AT:143:ILE:O	29:AT:147:ILE:HG13	2.00	0.62
7:A7:9:LYS:O	7:A7:13:TYR:HD1	1.83	0.62
10:BA:1332:A:H2'	10:BA:1333:A:N9	2.14	0.62
5:B5:10:ARG:HB2	5:B5:33:ASP:OD2	1.99	0.62
23:AN:6:TRP:CE3	23:AN:7:ARG:HG2	2.35	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:157:GLN:HA	17:AH:96:SER:OG	2.00	0.62
10:BA:1693:A:H2'	10:BA:1694:U:C6	2.34	0.62
32:BW:36:HIS:CD2	32:BW:87:GLY:HA3	2.35	0.62
7:B7:83:SER:HB3	30:BU:111:GLU:OE2	2.00	0.62
4:B4:95:ASP:HB2	4:B4:100:LYS:HE3	1.80	0.62
10:BA:1591:C:H2'	10:BA:1591:C:O2	2.00	0.62
17:BH:130:TYR:O	17:BH:130:TYR:HD1	1.82	0.62
35:AZ:53:GLU:OE1	35:AZ:63:SER:HB2	1.99	0.62
10:AA:2:A:O2'	10:AA:3:C:OP2	2.18	0.61
14:AE:154:THR:HG23	14:AE:197:ILE:CG2	2.30	0.61
10:AA:538:A:C2	10:AA:588:A:C4	2.88	0.61
10:AA:1443:A:H5'	10:AA:1444:U:OP1	1.99	0.61
10:AA:765:A:O2'	25:AP:12:VAL:CG2	2.47	0.61
10:BA:766:G:O6	25:BP:9:LYS:HA	2.00	0.61
10:BA:164:U:OP1	10:BA:264:U:H4'	1.99	0.61
6:B6:31:MET:HE3	6:B6:77:PHE:HD2	1.65	0.61
22:BM:26:ARG:CG	22:BM:27:ILE:H	2.03	0.61
10:AA:145:G:N2	10:AA:157:G:N2	2.37	0.61
20:BK:54:VAL:CG1	20:BK:81:VAL:HG13	2.25	0.61
10:BA:948:A:H2'	10:BA:949:A:C5'	2.30	0.61
27:BR:265:PRO:O	27:BR:266:LYS:HG3	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:OP2	2.15	0.61
10:BA:859:A:C8	10:BA:859:A:H5'	2.35	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
12:BC:170:TYR:CD2	12:BC:205:VAL:HG21	2.34	0.61
34:AY:90:GLY:C	34:AY:92:ARG:H	2.02	0.61
10:AA:1300:G:H5'	12:AC:162:CYS:HB2	1.80	0.61
19:AJ:50:VAL:HG22	19:AJ:91:LEU:HD23	1.81	0.61
26:BQ:35:LYS:HG2	26:BQ:36:ASN:N	2.14	0.61
20:BK:145:GLY:O	20:BK:147:ARG:N	2.32	0.61
10:BA:1133:C:H1'	10:BA:1591:C:H42	1.65	0.61
10:AA:1133:C:H1'	10:AA:1591:C:H42	1.64	0.61
4:B4:20:LYS:O	4:B4:20:LYS:HG3	1.98	0.61
12:BC:145:LEU:HD13	12:BC:153:MET:CE	2.30	0.61
12:AC:175:VAL:HG22	12:AC:188:LYS:HA	1.81	0.61
10:AA:1069:U:HO2'	10:AA:1070:U:P	2.22	0.61
10:AA:1110:A:O2'	10:AA:1111:A:OP2	2.13	0.61
10:AA:75:C:H1'	34:AY:178:LYS:CG	2.29	0.61
10:BA:1717:C:H2'	10:BA:1718:A:H5''	1.81	0.61
31:BV:17:ILE:CD1	31:BV:57:LEU:HB2	2.30	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:466:A:OP1	13:AD:145:SER:HB2	2.00	0.61
6:B6:6:LEU:CD2	17:BH:62:VAL:HG21	2.26	0.61
9:A9:126:ALA:N	9:A9:133:TYR:O	2.32	0.61
1:B1:7:THR:HG22	1:B1:31:LEU:HD22	1.82	0.61
15:BF:51:TRP:HE1	15:BF:84:PHE:HE2	1.40	0.61
14:BE:228:PRO:HB3	17:BH:68:ARG:NH2	2.12	0.61
8:B8:95:LYS:NZ	8:B8:98:LYS:HD2	2.15	0.61
10:AA:948:A:H2'	10:AA:949:A:C5'	2.30	0.61
4:A4:34:PHE:CD2	4:A4:45:PHE:HB3	2.35	0.61
10:AA:311:U:H4'	10:AA:312:C:O4'	1.99	0.61
27:BR:190:VAL:CG2	27:BR:219:LEU:HD13	2.30	0.61
32:AW:89:MET:HE2	32:AW:104:LEU:HD21	1.81	0.61
27:AR:314:SER:O	27:AR:326:ALA:HA	2.00	0.61
2:B2:147:VAL:O	2:B2:151:VAL:HG23	1.99	0.61
29:AT:116:ILE:HA	29:AT:136:GLY:HA3	1.83	0.61
30:BU:58:LEU:O	30:BU:62:LEU:HG	2.00	0.61
11:BB:51:GLN:NE2	35:BZ:95:ILE:H	1.97	0.61
2:A2:128:ASP:O	2:A2:129:LEU:HB2	2.01	0.61
10:AA:728:U:O2'	10:AA:729:U:H5'	2.01	0.61
4:A4:24:ASP:OD1	4:A4:25:PRO:HD2	2.00	0.61
16:BG:40:SER:O	16:BG:42:VAL:HG23	2.01	0.61
10:AA:525:U:H5''	25:AP:63:GLY:CA	2.30	0.61
21:BL:97:GLU:O	21:BL:98:ASN:HB2	2.00	0.61
10:AA:1072:G:N2	17:AH:79:TYR:OH	2.27	0.61
8:A8:66:VAL:O	8:A8:70:VAL:HG23	2.00	0.61
16:AG:61:CYS:SG	16:AG:66:ARG:HG2	2.41	0.61
10:AA:59:C:H5'	10:AA:60:C:OP2	2.00	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:840:A:O2'	10:BA:841:A:P	2.57	0.61
26:BQ:122:LEU:HD23	26:BQ:123:VAL:H	1.65	0.61
9:A9:98:LEU:HB3	9:A9:100:PHE:CE1	2.35	0.61
3:B3:178:THR:HG21	3:B3:180:ARG:CD	2.29	0.61
27:BR:94:SER:CB	27:BR:124:VAL:HG23	2.27	0.61
31:BV:72:LYS:HA	31:BV:76:GLU:HB2	1.82	0.61
10:BA:1027:U:H2'	10:BA:1028:G:H5'	1.81	0.61
10:AA:865:A:H2'	10:AA:866:U:H6	1.65	0.61
11:AB:2:ALA:HB1	35:AZ:97:GLU:HB2	1.81	0.61
10:BA:454:C:C2'	10:BA:455:C:H5''	2.29	0.61
35:AZ:57:ASN:HB2	35:AZ:59:GLN:OE1	1.99	0.61
21:BL:78:ASN:HD21	21:BL:80:LYS:HG3	1.64	0.61
28:BS:69:LYS:HZ1	28:BS:94:LEU:C	2.03	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BZ:37:LYS:HG2	35:BZ:38:LEU:H	1.65	0.61
35:BZ:34:TRP:HD1	35:BZ:82:ALA:HB1	1.65	0.61
10:BA:1191:A:C6	10:BA:1237:G:H1'	2.36	0.61
35:BZ:91:GLY:O	35:BZ:92:LEU:HG	2.00	0.61
10:BA:516:G:O2'	10:BA:517:U:H5'	2.01	0.61
20:AK:145:GLY:O	20:AK:147:ARG:N	2.33	0.61
33:BX:31:PRO:HG3	33:BX:39:ILE:HD11	1.83	0.61
30:BU:73:VAL:CG1	30:BU:74:PRO:HD2	2.31	0.61
10:AA:1582:G:O2'	10:AA:1583:A:H8	1.83	0.61
10:AA:85:G:H5'	10:AA:85:G:C8	2.27	0.61
10:BA:760:G:N2	10:BA:766:G:H1	1.94	0.61
25:BP:9:LYS:H	25:BP:22:SER:HB2	1.64	0.61
4:B4:119:LYS:HD3	5:B5:37:LYS:HZ1	1.65	0.61
6:A6:31:MET:HE3	6:A6:77:PHE:HD2	1.66	0.61
10:AA:377:G:H21	10:AA:417:A:H8	1.47	0.61
10:AA:1325:G:O5'	10:AA:1325:G:H8	1.83	0.61
10:AA:1419:G:H5'	10:AA:1419:G:H8	1.64	0.61
10:BA:849:A:C4	10:BA:935:G:N2	2.68	0.61
10:AA:1200:G:H4'	10:AA:1201:G:OP2	2.00	0.61
3:B3:117:ARG:NH1	10:BA:836:G:OP1	2.29	0.61
13:BD:127:VAL:O	13:BD:130:ARG:HB2	2.00	0.61
10:BA:506:U:C5'	13:BD:131:GLN:HB3	2.30	0.61
11:AB:5:ARG:HH11	11:AB:5:ARG:CA	2.06	0.61
10:AA:1253:G:OP1	19:AJ:76:THR:HG21	2.00	0.61
10:AA:574:A:N6	10:AA:577:C:C2	2.69	0.61
10:AA:904:A:H2'	10:AA:905:C:H6	1.66	0.61
10:AA:109:U:H5'	26:AQ:66:ARG:HD2	1.82	0.61
26:AQ:70:ILE:HD11	26:AQ:136:PHE:CZ	2.35	0.61
7:A7:89:PRO:HG2	7:A7:92:PHE:HB2	1.82	0.61
32:BW:106:ASP:HB2	32:BW:110:ARG:H	1.65	0.61
26:BQ:71:LYS:HB3	26:BQ:157:PHE:CE2	2.35	0.61
2:B2:84:THR:HG22	2:B2:85:LYS:N	2.14	0.61
17:BH:94:LEU:HD11	17:BH:102:VAL:CG2	2.31	0.61
2:B2:155:LYS:HD3	2:B2:157:GLN:OE1	2.00	0.61
11:BB:156:VAL:CG2	35:BZ:80:HIS:HB2	2.30	0.61
10:AA:586:A:C2'	10:AA:587:U:H5'	2.30	0.61
10:AA:148:C:C5'	34:AY:108:VAL:HG21	2.31	0.61
7:B7:38:PRO:HB2	7:B7:41:HIS:HD2	1.63	0.61
18:AI:112:MET:HE2	18:AI:112:MET:HA	1.82	0.61
10:BA:300:C:H5'	10:BA:300:C:H6	1.65	0.61
10:AA:1591:C:O2	10:AA:1591:C:H2'	1.99	0.61
10:BA:1384:U:H4'	10:BA:1385:U:OP1	1.99	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:317:TRP:CZ3	27:AR:324:LEU:HD22	2.35	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
10:BA:436:C:H2'	38:BA:2210:HOH:O	1.99	0.61
4:A4:116:MET:CE	4:A4:215:ASN:HB3	2.31	0.61
13:BD:53:ARG:HG3	13:BD:97:LEU:HD22	1.81	0.61
8:A8:75:VAL:HG11	8:A8:83:LEU:HD11	1.82	0.61
22:AM:81:ILE:HA	29:AT:40:TRP:CZ2	2.34	0.61
32:AW:254:ARG:HH11	32:AW:254:ARG:HB3	1.65	0.61
6:A6:62:CYS:HB3	6:A6:69:VAL:HG12	1.81	0.61
27:BR:277:GLY:HA3	27:BR:294:ILE:HA	1.82	0.61
31:BV:17:ILE:HG23	31:BV:58:MET:HE3	1.83	0.61
10:BA:85:G:H5'	10:BA:85:G:C8	2.29	0.61
10:BA:643:U:O2'	10:BA:644:U:O5'	2.13	0.61
4:B4:38:ILE:HG22	4:B4:39:PRO:CD	2.30	0.61
16:BG:16:LYS:O	16:BG:17:TRP:CG	2.54	0.61
10:AA:628:G:O2'	10:AA:629:A:H5'	2.01	0.61
22:AM:125:LEU:HG	22:AM:129:TRP:HE1	1.66	0.61
5:B5:58:ALA:HB2	20:BK:125:LYS:HB3	1.83	0.61
32:AW:42:LEU:HD12	32:AW:47:LEU:HB2	1.82	0.61
12:AC:165:GLN:N	12:AC:166:PRO:CD	2.61	0.61
2:A2:52:ARG:O	2:A2:52:ARG:HG2	2.00	0.61
10:BA:538:A:C2	10:BA:588:A:C4	2.87	0.61
10:AA:1652:A:N3	34:AY:66:GLY:CA	2.64	0.61
10:BA:291:A:H2'	10:BA:292:G:H8	1.64	0.61
31:BV:112:GLN:HG3	31:BV:113:ASN:N	2.14	0.61
10:BA:147:G:C5'	34:BY:15:CYS:SG	2.89	0.61
7:A7:83:SER:HB3	30:AU:111:GLU:OE2	2.01	0.61
1:B1:10:ARG:HB2	1:B1:53:ASP:O	2.01	0.61
13:BD:69:ARG:HH21	13:BD:92:LYS:HZ1	1.48	0.61
14:BE:192:ALA:HB3	14:BE:194:VAL:HG23	1.82	0.61
14:AE:141:ARG:HB3	14:AE:222:THR:CG2	2.31	0.61
8:A8:83:LEU:O	8:A8:87:MET:HG3	2.01	0.61
10:AA:1444:U:OP2	16:AG:163:SER:HA	2.00	0.61
10:AA:1580:U:OP2	18:AI:126:MET:HE1	2.00	0.61
10:AA:1007:U:C3'	10:AA:1008:A:H5'	2.26	0.61
31:AV:5:ARG:CB	31:AV:10:LYS:HE2	2.28	0.61
22:BM:146:VAL:HG12	22:BM:147:VAL:N	2.05	0.61
11:AB:12:ARG:HB2	11:AB:169:MET:SD	2.41	0.61
10:AA:1572:A:H2'	10:AA:1573:G:H5''	1.82	0.61
19:AJ:64:THR:HG22	19:AJ:77:TRP:HE3	1.65	0.61
10:BA:1229:U:O2	10:BA:1229:U:H2'	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A2:194:LYS:HG2	26:AQ:4:GLN:NE2	2.14	0.61
27:BR:314:SER:O	27:BR:315:LEU:HD23	2.01	0.61
11:BB:2:ALA:HB3	11:BB:6:LYS:HD3	1.82	0.61
1:A1:36:GLU:O	1:A1:37:GLU:CB	2.45	0.61
19:BJ:50:VAL:HG22	19:BJ:91:LEU:HD23	1.82	0.61
21:BL:62:GLN:CB	21:BL:63:PRO:CD	2.78	0.61
10:BA:1252:C:H2'	10:BA:1253:G:H8	1.64	0.61
35:BZ:32:CYS:HB2	35:BZ:70:CYS:HB3	1.83	0.61
28:BS:78:PRO:HB2	28:BS:98:ILE:HG12	1.82	0.61
1:B1:45:VAL:HG12	1:B1:46:LYS:N	2.15	0.61
10:BA:89:A:O2'	32:BW:4:GLY:HA3	2.01	0.61
34:AY:228:HIS:O	34:AY:232:ALA:HB2	2.01	0.61
8:B8:102:GLN:OE1	16:BG:165:ALA:HB3	1.99	0.61
4:B4:166:GLN:O	4:B4:169:ALA:HB3	2.00	0.61
19:AJ:39:VAL:HG12	19:AJ:43:LYS:HE3	1.82	0.61
10:BA:525:U:H5''	25:BP:63:GLY:H	1.66	0.61
14:BE:145:TRP:HZ3	14:BE:174:PRO:CG	2.13	0.61
10:BA:1007:U:C3'	10:BA:1008:A:H5'	2.27	0.61
4:B4:123:LEU:HD13	4:B4:145:PHE:CZ	2.35	0.61
10:BA:630:A:C2'	10:BA:631:C:H5''	2.31	0.61
17:BH:2:VAL:HG12	17:BH:3:LYS:N	2.12	0.61
8:B8:83:LEU:O	8:B8:87:MET:HG3	2.01	0.61
19:BJ:64:THR:HG22	19:BJ:77:TRP:HE3	1.65	0.61
1:B1:63:GLU:O	1:B1:63:GLU:HG2	2.00	0.61
24:BO:96:LYS:O	24:BO:100:ILE:HD13	2.01	0.61
9:A9:154:UNK:HA	9:A9:157:UNK:HG3	1.81	0.61
9:A9:98:LEU:HD23	9:A9:100:PHE:HE1	1.65	0.61
16:AG:37:THR:HG22	16:AG:38:THR:N	2.15	0.61
16:BG:37:THR:HG22	16:BG:38:THR:N	2.15	0.61
10:BA:706:U:H2'	10:BA:707:U:C5	2.35	0.61
10:BA:316:G:O4'	26:BQ:79:MET:HE2	2.01	0.61
10:AA:618:G:C2'	10:AA:619:C:H5'	2.31	0.61
4:B4:36:ALA:HB2	4:B4:101:THR:HB	1.82	0.61
10:AA:231:U:H2'	10:AA:232:G:C5'	2.29	0.61
10:AA:104:A:H2'	10:AA:105:G:C8	2.35	0.61
27:BR:220:SER:HB2	27:BR:261:ILE:O	2.00	0.61
10:BA:392:A:N7	10:BA:395:G:C5	2.69	0.61
34:BY:77:LEU:HD12	34:BY:84:PHE:HB2	1.83	0.61
35:BZ:57:ASN:HB2	35:BZ:59:GLN:OE1	2.00	0.61
10:BA:231:U:H2'	10:BA:232:G:C5'	2.30	0.61
15:AF:42:PHE:HA	8:B8:32:LYS:H	1.66	0.61
2:B2:35:MET:HG2	2:B2:103:THR:HG23	1.83	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:101:VAL:HG13	21:BL:123:VAL:HG13	1.81	0.61
7:B7:69:ASN:ND2	7:B7:71:GLU:HB2	2.15	0.61
14:AE:77:LEU:HD11	14:AE:105:VAL:CG1	2.30	0.61
11:AB:193:VAL:CG1	11:AB:197:LEU:HD12	2.30	0.61
34:AY:102:VAL:HG11	34:AY:109:LEU:HD11	1.83	0.61
16:BG:71:LEU:O	16:BG:71:LEU:HD12	2.01	0.61
34:BY:139:ASN:O	34:BY:143:LYS:HG3	2.00	0.61
14:BE:163:SER:O	14:BE:165:SER:N	2.34	0.61
16:AG:72:MET:O	16:AG:72:MET:HG3	1.99	0.61
10:BA:501:U:C6	10:BA:501:U:H5'	2.35	0.61
5:A5:38:ARG:NH2	5:A5:86:VAL:HG23	2.14	0.61
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:AA:955:A:C2	10:AA:956:A:C4	2.89	0.61
13:AD:94:ASP:HB3	14:AE:149:ILE:CD1	2.24	0.61
10:BA:1200:G:H4'	10:BA:1201:G:OP2	2.01	0.61
27:AR:114:PHE:HB3	27:AR:145:TRP:CZ3	2.36	0.61
27:AR:75:HIS:NE2	27:AR:101:ARG:HG3	2.16	0.61
3:B3:95:THR:CG2	3:B3:96:ALA:N	2.64	0.61
10:AA:570:G:H4'	10:AA:574:A:C2	2.35	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
32:BW:188:GLY:O	32:BW:191:ILE:HG23	2.01	0.61
12:BC:108:MET:O	12:BC:112:LEU:HG	2.00	0.61
12:AC:126:ILE:HG21	12:AC:157:GLN:HG3	1.83	0.61
25:AP:15:LEU:CD2	32:AW:71:ASN:HB3	2.31	0.61
10:AA:865:A:O2'	10:AA:866:U:H5'	2.01	0.61
21:AL:78:ASN:HD21	21:AL:80:LYS:HG3	1.64	0.61
10:BA:1671:G:H2'	10:BA:1672:G:H8	1.65	0.61
2:B2:52:ARG:HG2	2:B2:52:ARG:O	2.00	0.61
21:AL:101:VAL:HA	21:AL:125:CYS:O	2.00	0.61
10:AA:1188:A:H5''	10:AA:1189:A:OP2	2.00	0.61
12:BC:215:ILE:HA	31:BV:39:ALA:CB	2.30	0.61
11:BB:96:SER:CB	11:BB:111:LYS:NZ	2.63	0.61
7:B7:54:PHE:CE2	7:B7:75:TYR:HB2	2.35	0.61
10:AA:371:U:H2'	10:AA:371:U:O2	1.98	0.61
9:B9:101:TYR:HH	9:B9:124:PHE:HZ	1.49	0.61
10:BA:147:G:H5'	34:BY:15:CYS:SG	2.41	0.61
10:BA:830:G:H2'	10:BA:831:G:H8	1.66	0.61
10:BA:160:C:O2'	34:BY:133:LEU:HB2	2.01	0.61
12:AC:61:VAL:O	12:AC:68:LYS:HB3	1.99	0.61
3:A3:192:PHE:HE1	6:A6:14:LYS:HA	1.65	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:214:ILE:O	31:AV:39:ALA:HB1	2.01	0.61
10:AA:346:G:H2'	10:AA:347:G:H8	1.65	0.61
5:A5:56:LYS:HG3	20:AK:120:ALA:O	2.01	0.61
4:A4:165:SER:HA	4:A4:168:ARG:NE	2.14	0.61
10:BA:546:G:H2'	10:BA:547:C:C6	2.36	0.61
4:A4:139:ARG:HG2	4:A4:141:PHE:CE1	2.35	0.61
25:BP:10:ILE:HG12	25:BP:21:LEU:CB	2.30	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
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:1522:U:H3	10:BA:1533:G:H1	1.48	0.61
8:B8:75:VAL:HG11	8:B8:83:LEU:HD11	1.82	0.61
10:BA:669:G:H2'	10:BA:670:G:C5'	2.24	0.61
1:A1:12:MET:HB2	1:A1:30:VAL:HG23	1.81	0.61
11:BB:194:MET:CE	31:BV:89:SER:H	2.05	0.61
10:AA:1430:C:O2'	10:AA:1431:A:C5'	2.48	0.61
27:BR:114:PHE:HB3	27:BR:145:TRP:CZ3	2.35	0.61
10:BA:310:C:H6	10:BA:310:C:H5'	1.64	0.61
10:BA:747:G:N2	10:BA:754:A:N1	2.49	0.61
2:A2:40:THR:HG22	2:A2:40:THR:O	2.00	0.61
10:BA:1303:A:O2'	31:BV:46:LEU:HD12	2.00	0.61
32:BW:42:LEU:HB2	32:BW:111:PHE:CD2	2.35	0.61
10:BA:648:U:C5'	10:BA:649:U:OP2	2.48	0.61
11:BB:45:ASN:HD21	31:BV:109:LEU:HD13	1.66	0.61
21:AL:54:GLU:HG3	21:AL:56:ILE:HG13	1.83	0.61
10:BA:1076:U:OP2	21:BL:6:PRO:HB3	2.01	0.61
28:AS:73:PRO:C	28:AS:75:GLY:H	2.04	0.61
24:BO:107:ASN:O	24:BO:109:LYS:N	2.34	0.61
15:BF:23:VAL:HG21	15:BF:78:ARG:HD3	1.83	0.61
10:AA:565:G:C8	10:AA:566:C:C5	2.89	0.61
10:AA:547:C:H5''	10:AA:548:A:OP1	2.00	0.61
14:AE:182:ALA:O	14:AE:185:PRO:HD2	2.01	0.61
13:BD:17:ARG:NH2	14:BE:183:PRO:HD3	2.05	0.61
10:BA:604:G:H21	21:BL:19:ARG:HH21	1.49	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
10:BA:761:U:H4'	10:BA:762:U:O5'	2.01	0.61
10:AA:1027:U:H2'	10:AA:1028:G:H5'	1.81	0.61
10:AA:630:A:H2'	10:AA:631:C:C5'	2.31	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BV:58:MET:O	31:BV:62:GLN:HG2	2.01	0.61
13:BD:38:ASN:ND2	13:BD:40:ARG:HD2	2.15	0.61
31:AV:41:VAL:HG11	31:AV:47:ARG:CA	2.31	0.61
16:BG:95:ILE:HG22	16:BG:103:PRO:HB3	1.83	0.61
31:BV:35:LEU:HD23	31:BV:35:LEU:O	2.01	0.61
16:AG:16:LYS:O	16:AG:17:TRP:CG	2.54	0.61
25:BP:55:VAL:HG22	25:BP:58:PHE:HE1	1.64	0.61
10:AA:249:A:H1'	32:AW:133:ILE:HD11	1.83	0.61
32:AW:37:LYS:HB3	32:AW:37:LYS:NZ	2.15	0.61
16:BG:177:LYS:O	16:BG:178:ASN:HB2	2.00	0.61
2:B2:169:SER:O	2:B2:170:GLN:HB2	2.00	0.61
10:AA:1348:U:H2'	10:AA:1348:U:O2	2.00	0.61
34:AY:199:THR:O	34:AY:203:VAL:HG23	2.01	0.61
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
5:B5:38:ARG:NH2	5:B5:86:VAL:HG23	2.16	0.60
10:BA:1007:U:C3'	10:BA:1008:A:C5'	2.79	0.60
16:BG:45:PRO:CG	16:BG:85:ILE:HG23	2.31	0.60
10:AA:1007:U:C3'	10:AA:1008:A:C5'	2.79	0.60
31:BV:63:LYS:C	31:BV:65:PRO:HD2	2.21	0.60
10:BA:86:C:C2'	10:BA:87:G:H5'	2.31	0.60
10:BA:1514:G:H5'	29:BT:90:GLY:HA2	1.83	0.60
3:A3:113:ARG:NH2	10:AA:633:U:OP2	2.34	0.60
10:AA:1137:A:O2'	10:AA:1138:A:H5'	2.01	0.60
2:B2:40:THR:O	2:B2:40:THR:HG22	2.01	0.60
32:BW:161:THR:OG1	32:BW:229:VAL:HB	2.01	0.60
32:AW:89:MET:CE	32:AW:104:LEU:HD21	2.30	0.60
27:AR:297:GLU:HA	27:AR:300:THR:OG1	2.01	0.60
10:BA:297:U:OP1	26:BQ:104:ARG:HD3	2.00	0.60
3:A3:81:ILE:HG12	3:A3:94:PHE:CE1	2.36	0.60
10:BA:865:A:O2'	10:BA:866:U:H5'	2.00	0.60
14:AE:74:GLU:C	14:AE:76:LYS:H	2.05	0.60
34:BY:141:ILE:HG21	34:BY:156:ILE:HG23	1.83	0.60
34:AY:77:LEU:HD12	34:AY:84:PHE:HB2	1.83	0.60
27:AR:235:LYS:HZ3	27:AR:256:SER:H	1.47	0.60
29:AT:124:ALA:HA	29:AT:127:LYS:HE2	1.83	0.60
29:AT:119:LYS:HE2	29:AT:130:ARG:CZ	2.31	0.60
2:B2:136:THR:HG22	2:B2:137:VAL:N	2.16	0.60
14:BE:91:THR:O	14:BE:94:GLY:N	2.34	0.60
11:BB:11:LYS:CE	31:BV:115:PRO:HB2	2.30	0.60
10:BA:10:G:H1	10:BA:1117:U:H3	1.47	0.60
10:AA:1018:G:H8	10:AA:1018:G:H5'	1.65	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:BM:14:ILE:CG2	22:BM:22:ILE:HG23	2.31	0.60
10:BA:1645:C:H42	10:BA:1680:A:H61	1.48	0.60
1:B1:66:ARG:O	1:B1:67:LEU:HG	2.01	0.60
5:B5:41:VAL:HG23	5:B5:41:VAL:O	2.00	0.60
17:AH:77:PRO:HB2	21:AL:9:ILE:HG13	1.82	0.60
10:BA:565:G:C8	10:BA:566:C:C5	2.89	0.60
8:A8:75:VAL:CG1	8:A8:79:LEU:HD13	2.30	0.60
5:B5:86:VAL:HG13	10:BA:1750:A:N1	2.15	0.60
27:BR:235:LYS:HZ3	27:BR:256:SER:H	1.49	0.60
10:BA:444:A:C2'	10:BA:445:U:H5'	2.30	0.60
10:BA:59:C:H5'	10:BA:60:C:OP2	2.01	0.60
6:B6:33:VAL:HA	6:B6:76:ALA:O	2.00	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
15:BF:44:TYR:CD1	15:BF:44:TYR:N	2.62	0.60
3:B3:103:LYS:HD3	10:BA:633:U:H3'	1.83	0.60
21:AL:60:SER:OG	21:AL:64:ASN:HB2	2.01	0.60
16:AG:21:GLU:HG2	16:AG:102:ASN:HB2	1.81	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
32:BW:11:ARG:HH12	32:BW:20:LEU:HD22	1.65	0.60
29:AT:21:GLU:HG3	29:AT:147:ILE:CD1	2.31	0.60
31:AV:112:GLN:HG3	31:AV:113:ASN:N	2.15	0.60
10:BA:1188:A:H8	10:BA:1188:A:O5'	1.84	0.60
31:BV:107:LYS:HG2	31:BV:112:GLN:HB2	1.82	0.60
26:AQ:39:LEU:HA	32:AW:204:GLN:HE21	1.64	0.60
20:BK:106:LYS:HZ3	20:BK:135:ILE:HG23	1.65	0.60
11:BB:96:SER:HB3	11:BB:111:LYS:HZ1	1.66	0.60
10:BA:586:A:C2'	10:BA:587:U:H5'	2.31	0.60
21:AL:47:HIS:ND1	21:AL:104:ALA:HB2	2.15	0.60
29:AT:72:PRO:O	29:AT:73:HIS:HB2	2.00	0.60
10:BA:5:U:OP1	14:BE:184:ILE:HD12	2.00	0.60
10:AA:1556:G:C5	18:AI:124:ARG:NH1	2.70	0.60
10:AA:1580:U:H5''	18:AI:74:SER:CB	2.31	0.60
10:AA:1562:G:H5'	29:AT:94:ASN:O	2.02	0.60
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
10:AA:1340:G:C3'	10:AA:1341:U:H5''	2.31	0.60
16:BG:66:ARG:NH2	16:BG:143:ASN:HD21	1.98	0.60
29:BT:15:ALA:HB2	29:BT:66:ARG:NE	2.16	0.60
5:A5:38:ARG:HH22	5:A5:86:VAL:CG2	2.13	0.60
13:AD:108:ARG:HH22	13:AD:126:ARG:NH2	1.99	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:126:ARG:HA	13:AD:129:ILE:HD11	1.83	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
22:BM:21:ASN:HD21	22:BM:102:SER:HB3	1.65	0.60
3:B3:117:ARG:HH22	10:BA:834:A:H2'	1.65	0.60
20:AK:36:THR:HG22	20:AK:37:TRP:H	1.65	0.60
1:B1:58:MET:SD	16:BG:117:ARG:HD3	2.40	0.60
23:BN:33:TYR:O	23:BN:34:GLU:CB	2.48	0.60
10:BA:145:G:O2'	34:BY:13:GLN:HG3	2.02	0.60
2:B2:93:ALA:HA	26:BQ:9:TYR:CD2	2.36	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
8:A8:47:LYS:HG2	22:AM:5:ILE:HG23	1.82	0.60
10:AA:422:G:C8	10:AA:422:G:H5'	2.26	0.60
10:AA:454:C:O2'	10:AA:455:C:H5''	2.00	0.60
34:BY:70:ARG:NH2	34:BY:104:PRO:HD3	2.14	0.60
25:BP:140:SER:O	25:BP:143:LEU:HB2	2.00	0.60
12:BC:161:ILE:HD12	12:BC:170:TYR:HB2	1.83	0.60
2:A2:56:VAL:HG22	10:AA:324:A:P	2.42	0.60
17:BH:94:LEU:HD13	17:BH:100:GLY:HA2	1.82	0.60
3:B3:138:GLY:N	3:B3:154:GLN:HB2	2.15	0.60
12:AC:227:ILE:HG21	27:AR:246:THR:HG23	1.82	0.60
29:AT:117:ILE:HG23	29:AT:130:ARG:HB3	1.81	0.60
32:AW:204:GLN:O	32:AW:206:SER:N	2.34	0.60
11:BB:193:VAL:CG1	11:BB:197:LEU:HD12	2.31	0.60
31:AV:98:ILE:HG23	31:AV:102:THR:HB	1.82	0.60
10:BA:1594:G:H2'	10:BA:1595:C:C6	2.36	0.60
3:A3:13:THR:H	3:A3:16:GLU:HB2	1.66	0.60
10:AA:1019:G:N2	10:AA:1020:G:C2	2.70	0.60
10:AA:1701:C:H2'	10:AA:1702:A:H5'	1.84	0.60
10:BA:33:G:H5'	10:BA:33:G:H8	1.66	0.60
27:AR:255:GLY:H	27:AR:279:LYS:HE3	1.65	0.60
10:AA:1086:G:C2'	10:AA:1087:U:OP2	2.49	0.60
28:AS:24:LEU:HG	28:AS:37:GLU:HB3	1.82	0.60
27:AR:13:LYS:HZ3	27:AR:295:GLU:HB3	1.66	0.60
10:BA:614:A:OP2	10:BA:615:A:OP2	2.20	0.60
10:AA:1514:G:H5'	29:AT:90:GLY:HA2	1.81	0.60
10:AA:1475:G:P	29:AT:102:LYS:HB2	2.41	0.60
25:AP:18:ARG:NH2	25:AP:20:GLN:NE2	2.50	0.60
5:A5:5:ARG:NH2	10:AA:1748:U:OP2	2.34	0.60
9:B9:154:UNK:HA	9:B9:157:UNK:HG3	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:109:LEU:HB2	13:AD:146:PHE:CB	2.31	0.60
9:B9:72:LYS:HG3	10:BA:1244:U:OP1	2.01	0.60
8:B8:38:LYS:NZ	10:BA:1507:U:H3'	2.16	0.60
10:BA:798:G:N3	10:BA:799:G:C8	2.69	0.60
23:AN:27:GLN:O	23:AN:28:GLY:C	2.38	0.60
10:BA:158:G:H5''	34:BY:112:GLN:NE2	2.15	0.60
10:AA:1429:G:N3	10:AA:1429:G:H2'	2.16	0.60
9:B9:98:LEU:HB3	9:B9:100:PHE:CE1	2.36	0.60
2:A2:25:ARG:NH2	10:AA:376:A:OP1	2.34	0.60
10:BA:245:A:H4'	10:BA:246:U:OP2	2.00	0.60
3:B3:135:THR:HB	24:BO:23:ARG:NH1	2.15	0.60
10:AA:676:C:H4'	10:AA:677:G:C5'	2.31	0.60
17:AH:74:VAL:HG13	17:AH:126:LEU:O	2.02	0.60
12:BC:228:ARG:NH2	27:BR:243:LEU:HD22	2.16	0.60
27:BR:285:THR:CG2	27:BR:286:GLN:H	2.02	0.60
10:AA:706:U:H2'	10:AA:707:U:C5	2.36	0.60
20:AK:62:VAL:CG1	20:AK:63:LYS:H	2.14	0.60
2:A2:147:VAL:O	2:A2:151:VAL:HG23	2.00	0.60
2:B2:37:LYS:O	2:B2:38:LEU:HD23	2.01	0.60
10:AA:481:A:H2'	10:AA:482:A:H5''	1.83	0.60
10:BA:273:A:N3	10:BA:273:A:H2'	2.17	0.60
12:BC:84:ASP:C	12:BC:86:GLN:H	2.04	0.60
10:AA:828:U:H2'	10:AA:829:U:O4'	2.01	0.60
10:BA:1603:A:H62	10:BA:1717:C:H4'	1.65	0.60
10:BA:1580:U:OP2	18:BI:126:MET:HE2	2.01	0.60
6:B6:31:MET:CE	6:B6:71:ILE:HD11	2.30	0.60
8:A8:31:THR:OG1	15:BF:42:PHE:HD2	1.85	0.60
34:AY:41:LEU:HB3	34:AY:45:PHE:CD1	2.37	0.60
27:AR:250:ARG:HG3	27:AR:252:PHE:CE1	2.37	0.60
3:B3:178:THR:CG2	3:B3:180:ARG:HG3	2.31	0.60
3:B3:178:THR:HG21	3:B3:180:ARG:HD2	1.83	0.60
2:A2:39:THR:HG21	2:A2:48:LYS:HA	1.83	0.60
27:BR:250:ARG:HG3	27:BR:252:PHE:CE1	2.35	0.60
32:AW:188:GLY:N	32:AW:191:ILE:CG2	2.65	0.60
16:AG:95:ILE:HG22	16:AG:103:PRO:HB3	1.80	0.60
27:AR:220:SER:HB2	27:AR:261:ILE:O	2.01	0.60
26:BQ:70:ILE:HD11	26:BQ:136:PHE:CZ	2.37	0.60
10:AA:1299:C:H4'	12:AC:162:CYS:SG	2.41	0.60
2:B2:154:THR:O	2:B2:156:ALA:N	2.31	0.60
32:BW:203:HIS:O	32:BW:205:GLY:N	2.27	0.60
29:AT:101:GLY:O	29:AT:105:ARG:HG2	2.00	0.60
10:AA:802:U:H3	10:AA:830:G:H1	1.49	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1018:G:O2'	10:BA:1019:G:H5'	2.02	0.60
28:BS:73:PRO:C	28:BS:75:GLY:H	2.05	0.60
14:BE:77:LEU:HD11	14:BE:105:VAL:CG1	2.31	0.60
10:BA:627:U:P	21:BL:10:ARG:HB2	2.42	0.60
34:AY:139:ASN:O	34:AY:143:LYS:HG3	2.02	0.60
14:BE:159:ILE:HG22	14:BE:160:THR:N	2.15	0.60
14:BE:205:THR:HG23	14:BE:211:PHE:CD1	2.36	0.60
10:BA:1473:G:N2	10:BA:1475:G:H3'	2.15	0.60
34:AY:137:ARG:HG3	34:AY:181:ARG:HG3	1.84	0.60
10:BA:1325:G:H8	10:BA:1325:G:O5'	1.85	0.60
10:AA:1745:G:H3'	10:AA:1746:G:C5'	2.29	0.60
9:B9:152:UNK:HA	9:B9:155:UNK:HG3	1.82	0.60
10:BA:1511:A:O2'	10:BA:1512:G:H5'	2.02	0.60
10:BA:1430:C:H3'	22:BM:138:THR:CG2	2.32	0.60
10:BA:797:A:C2'	10:BA:798:G:O4'	2.41	0.60
9:A9:152:UNK:HA	9:A9:155:UNK:HG3	1.84	0.60
10:AA:955:A:N6	10:AA:1003:A:C5	2.70	0.60
31:AV:35:LEU:CD2	31:AV:41:VAL:HG21	2.31	0.60
10:AA:104:A:C2	10:AA:298:G:C2	2.90	0.60
5:B5:67:PRO:HD3	20:BK:129:ILE:HD12	1.84	0.60
32:BW:127:LYS:NZ	32:BW:186:GLN:HE22	1.98	0.60
32:AW:102:ARG:NE	32:AW:238:ILE:HG21	2.16	0.60
10:AA:186:C:H2'	10:AA:187:U:O4'	2.01	0.60
32:AW:97:THR:HB	32:AW:99:GLN:HG2	1.82	0.60
12:BC:196:GLU:HG3	12:BC:203:PHE:HB2	1.82	0.60
25:AP:23:LEU:HD11	25:AP:71:ALA:CB	2.29	0.60
18:AI:22:ALA:CB	18:AI:86:ALA:HB1	2.32	0.60
7:A7:11:ARG:HG3	7:A7:15:GLN:HE21	1.64	0.60
10:AA:481:A:C2'	10:AA:482:A:H5''	2.32	0.60
27:BR:86:GLN:HB3	27:BR:87:GLU:OE2	2.02	0.60
26:BQ:146:ILE:CD1	26:BQ:153:GLN:HG2	2.32	0.60
10:BA:1188:A:H5''	10:BA:1189:A:OP2	2.00	0.60
1:B1:45:VAL:HG12	1:B1:46:LYS:H	1.67	0.60
10:AA:1492:U:O2'	10:AA:1493:A:P	2.60	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
27:BR:271:ALA:HB2	27:BR:317:TRP:CZ2	2.37	0.60
10:BA:828:U:H2'	10:BA:829:U:O4'	2.02	0.60
10:AA:139:A:O2'	10:AA:140:U:H5'	2.02	0.60
24:AO:60:HIS:O	24:AO:62:ILE:HG13	2.01	0.60
18:AI:4:GLN:O	18:AI:5:LYS:HB3	2.02	0.60
10:BA:1531:G:H2'	10:BA:1532:U:OP1	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A9:97:ALA:C	9:A9:98:LEU:HD12	2.22	0.60
14:BE:228:PRO:HA	14:BE:231:TRP:CD1	2.36	0.60
10:BA:1229:U:H2'	10:BA:1230:U:H5'	1.83	0.60
30:BU:36:ILE:HG23	30:BU:68:ILE:HD12	1.82	0.60
4:B4:90:VAL:HG23	4:B4:104:TYR:HB2	1.84	0.60
16:BG:13:LEU:HD12	16:BG:14:PHE:N	2.17	0.60
26:AQ:11:LYS:O	26:AQ:53:VAL:HG21	2.02	0.60
32:BW:143:THR:HG22	32:BW:145:ASP:H	1.65	0.60
28:BS:124:PHE:CD1	28:BS:124:PHE:N	2.68	0.60
14:BE:58:PRO:HG2	14:BE:59:GLU:OE1	2.02	0.60
31:BV:3:ARG:HG3	31:BV:3:ARG:O	2.02	0.60
10:AA:897:A:O2'	10:AA:898:U:H5'	2.02	0.60
10:BA:1675:A:H5''	34:BY:75:LEU:HD13	1.83	0.60
10:AA:1575:U:H2'	10:AA:1576:U:H6	1.66	0.60
10:BA:687:U:H2'	10:BA:688:A:H8	1.66	0.60
13:BD:69:ARG:HH21	13:BD:92:LYS:NZ	1.99	0.60
13:BD:26:ASN:O	13:BD:29:LYS:HG3	2.01	0.60
11:BB:89:THR:HB	11:BB:91:CYS:SG	2.40	0.60
10:BA:1403:U:O2'	10:BA:1404:G:P	2.60	0.60
23:BN:35:MET:HG3	23:BN:35:MET:O	2.02	0.60
10:AA:10:G:H1	10:AA:1117:U:H3	1.50	0.60
7:A7:103:GLU:HG2	12:AC:92:GLU:OE1	2.02	0.60
10:AA:604:G:N2	10:AA:1080:G:H22	2.00	0.60
10:BA:2:A:O2'	10:BA:3:C:OP2	2.19	0.60
5:B5:77:ILE:N	5:B5:77:ILE:HD12	2.16	0.60
10:AA:747:G:N2	10:AA:754:A:N1	2.50	0.60
10:AA:747:G:N2	10:AA:755:G:C6	2.70	0.60
13:BD:78:ARG:HD2	32:BW:260:TYR:OH	2.01	0.60
2:A2:95:ASN:ND2	10:AA:332:A:H4'	2.16	0.60
34:BY:63:MET:HA	34:BY:98:ARG:O	2.02	0.60
34:AY:64:LYS:HZ1	34:AY:81:HIS:HB3	1.66	0.60
35:AZ:34:TRP:HD1	35:AZ:82:ALA:HB1	1.65	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
10:AA:273:A:H2'	10:AA:273:A:N3	2.16	0.60
29:BT:119:LYS:HE2	29:BT:130:ARG:CZ	2.32	0.60
10:BA:435:C:O2'	10:BA:436:C:H5'	2.01	0.60
25:AP:90:ARG:HB3	25:AP:96:GLY:O	2.00	0.60
19:BJ:108:PRO:O	19:BJ:110:VAL:HG23	2.02	0.60
5:A5:41:VAL:O	5:A5:41:VAL:HG23	2.02	0.60
22:AM:113:LEU:N	22:AM:113:LEU:HD23	2.16	0.60
12:BC:61:VAL:O	12:BC:68:LYS:HB3	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:300:C:H5'	10:AA:300:C:H6	1.67	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
10:AA:1461:A:H5''	10:AA:1486:U:H3	1.67	0.60
10:AA:840:A:O2'	10:AA:841:A:OP2	2.20	0.60
10:BA:1558:A:C4	10:BA:1583:A:N6	2.70	0.60
31:BV:17:ILE:HD11	31:BV:54:ALA:O	2.02	0.60
10:BA:1244:U:H3	10:BA:1409:G:H1	1.47	0.60
13:BD:37:LYS:HE2	13:BD:126:ARG:NH1	2.17	0.60
3:A3:130:LEU:C	3:A3:132:LEU:H	2.04	0.60
10:AA:623:U:H3	10:AA:948:A:N6	1.98	0.60
2:A2:10:LYS:NZ	10:AA:330:C:OP2	2.35	0.60
10:AA:315:U:O2'	26:AQ:79:MET:CE	2.49	0.60
10:AA:328:G:H2'	26:AQ:132:LYS:CE	2.31	0.60
22:AM:125:LEU:CG	22:AM:129:TRP:HE1	2.14	0.60
10:AA:339:C:O2'	10:AA:340:A:H5'	2.02	0.60
5:B5:67:PRO:HG2	20:BK:129:ILE:O	2.02	0.60
2:A2:105:VAL:HG12	2:A2:107:ASN:H	1.67	0.60
26:AQ:8:ALA:HB3	26:AQ:11:LYS:HE2	1.83	0.60
8:A8:46:GLU:HB2	22:AM:7:LYS:HG3	1.83	0.60
10:AA:454:C:H2'	10:AA:455:C:C5'	2.32	0.60
10:BA:454:C:O2'	10:BA:455:C:H5''	2.02	0.60
10:BA:1471:C:O2'	10:BA:1472:U:H5'	2.00	0.60
34:BY:228:HIS:O	34:BY:232:ALA:HB2	2.02	0.60
33:AX:38:ARG:HG2	33:AX:42:ASN:HD21	1.67	0.60
33:AX:31:PRO:HG3	33:AX:39:ILE:HD11	1.82	0.60
16:AG:40:SER:O	16:AG:42:VAL:HG23	2.01	0.60
10:AA:724:C:H2'	10:AA:724:C:O2	2.01	0.60
10:AA:33:G:H5'	10:AA:33:G:H8	1.65	0.60
13:AD:97:LEU:O	13:AD:99:LEU:N	2.32	0.60
10:AA:460:A:N6	10:AA:589:G:C8	2.70	0.60
10:AA:164:U:O2'	10:AA:165:A:OP1	2.17	0.60
10:AA:1486:U:H5'	10:AA:1487:A:C2	2.37	0.60
10:AA:932:G:H5''	24:AO:7:LYS:HZ3	1.67	0.60
1:A1:62:ARG:O	1:A1:63:GLU:CB	2.50	0.60
10:BA:47:C:C2'	10:BA:48:C:H5'	2.32	0.60
24:BO:15:GLY:O	24:BO:16:SER:HB2	2.00	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:316:G:OP2	26:AQ:132:LYS:HE3	2.02	0.60
10:BA:311:U:H4'	10:BA:312:C:O4'	2.01	0.60
10:BA:905:C:O2	20:BK:138:ASP:CB	2.46	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1501:C:H2'	10:BA:1502:A:H8	1.67	0.60
10:BA:561:A:N3	33:BX:14:VAL:HG21	2.17	0.60
26:AQ:6:GLN:OE1	26:AQ:6:GLN:HA	2.02	0.60
32:BW:122:LYS:HG3	32:BW:167:VAL:CG2	2.32	0.60
10:BA:90:U:P	32:BW:3:ARG:HB2	2.42	0.60
32:AW:11:ARG:HG2	32:AW:27:TRP:O	2.01	0.60
10:AA:110:A:HO2'	10:AA:111:G:P	2.25	0.60
33:BX:50:LEU:CD2	33:BX:57:ARG:HH12	2.13	0.60
10:BA:553:A:O2'	10:BA:554:U:OP2	2.18	0.60
14:BE:33:LEU:HD22	14:BE:53:ILE:HG22	1.84	0.60
11:AB:141:ILE:HG23	11:AB:155:VAL:CG1	2.32	0.60
27:BR:174:MET:HE2	27:BR:176:SER:O	2.01	0.60
10:AA:525:U:H5''	25:AP:63:GLY:H	1.66	0.60
22:BM:14:ILE:HG23	22:BM:22:ILE:HG23	1.83	0.60
10:BA:559:C:O2	10:BA:559:C:H2'	2.02	0.60
10:BA:726:U:C6	10:BA:792:G:N2	2.70	0.60
10:AA:5:U:C2	10:AA:20:G:N2	2.70	0.59
13:AD:80:MET:HG2	13:AD:86:LEU:HD12	1.83	0.59
10:BA:547:C:H5''	10:BA:548:A:OP1	2.02	0.59
22:AM:38:ILE:HG23	22:AM:42:PHE:HB3	1.84	0.59
10:AA:1028:G:H5'	10:AA:1028:G:C8	2.29	0.59
10:AA:843:A:N6	10:AA:942:U:C5	2.70	0.59
10:AA:1720:G:H4'	10:AA:1721:G:O5'	2.02	0.59
10:BA:74:A:H1'	34:BY:179:ILE:CD1	2.31	0.59
10:BA:882:G:N7	10:BA:883:A:C4	2.70	0.59
17:BH:35:LEU:HD21	17:BH:61:VAL:HG21	1.84	0.59
9:A9:126:ALA:HA	10:AA:1224:C:C5'	2.24	0.59
8:B8:60:VAL:HG13	8:B8:72:LYS:HG2	1.84	0.59
10:BA:1444:U:O4	16:BG:74:HIS:HB2	2.02	0.59
12:AC:35:ALA:HB1	12:AC:57:LYS:HB2	1.83	0.59
11:BB:5:ARG:HG2	11:BB:187:LYS:NZ	2.17	0.59
23:AN:39:ARG:HG3	23:AN:40:ARG:HG2	1.83	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:AA:245:A:H4'	10:AA:246:U:OP2	2.02	0.59
2:B2:22:ARG:NH1	2:B2:25:ARG:HH12	1.93	0.59
12:BC:108:MET:HE2	12:BC:125:ILE:HD13	1.82	0.59
27:AR:190:VAL:CG2	27:AR:219:LEU:HD13	2.31	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
14:AE:45:LEU:N	14:AE:64:PHE:CE2	2.70	0.59
10:AA:1471:C:O2'	10:AA:1472:U:H5'	2.01	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:174:MET:HE2	27:AR:176:SER:O	2.02	0.59
23:BN:4:LYS:HD2	23:BN:6:TRP:HE1	1.67	0.59
10:BA:155:U:H5''	34:BY:83:CYS:C	2.22	0.59
1:A1:65:ARG:HH21	1:A1:67:LEU:HD12	1.67	0.59
10:AA:1397:C:H5''	10:AA:1398:A:OP2	2.02	0.59
10:AA:812:U:H2'	10:AA:813:U:H5'	1.84	0.59
10:BA:1069:U:O2'	10:BA:1070:U:OP1	2.16	0.59
13:BD:80:MET:HG2	13:BD:86:LEU:HD12	1.83	0.59
10:BA:758:A:H2'	10:BA:759:G:C8	2.32	0.59
10:AA:794:A:O3'	10:AA:797:A:H2	1.84	0.59
9:B9:97:ALA:C	9:B9:98:LEU:HD12	2.23	0.59
9:B9:98:LEU:HD23	9:B9:100:PHE:HE1	1.67	0.59
27:AR:252:PHE:HB3	27:AR:281:PHE:CE2	2.37	0.59
27:BR:168:VAL:O	27:BR:169:ARG:HD3	2.01	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
2:A2:177:THR:HG21	10:AA:205:A:OP1	2.02	0.59
32:BW:97:THR:HB	32:BW:99:GLN:HG2	1.83	0.59
16:AG:101:ARG:O	16:AG:103:PRO:HD3	2.02	0.59
12:BC:170:TYR:CZ	12:BC:205:VAL:HG11	2.37	0.59
10:BA:110:A:HO2'	10:BA:111:G:P	2.24	0.59
3:B3:15:ILE:H	3:B3:15:ILE:HD12	1.67	0.59
10:BA:1089:U:O2	10:BA:1626:A:C2	2.55	0.59
12:AC:47:THR:HG22	12:AC:48:LYS:HG3	1.82	0.59
10:BA:29:G:H4'	21:BL:130:SER:HB3	1.84	0.59
7:B7:52:ARG:HB2	7:B7:54:PHE:HE1	1.66	0.59
13:AD:171:ARG:HB3	13:AD:175:LYS:HZ2	1.66	0.59
35:AZ:83:LEU:O	35:AZ:87:LEU:HG	2.02	0.59
4:A4:20:LYS:O	4:A4:20:LYS:HG3	2.00	0.59
10:BA:1704:C:O2'	10:BA:1705:A:H5'	2.02	0.59
10:BA:14:C:H1'	10:BA:1114:G:N2	2.16	0.59
14:BE:141:ARG:HB3	14:BE:222:THR:CG2	2.32	0.59
22:AM:1:MET:CG	22:AM:2:SER:N	2.57	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
16:BG:55:LYS:O	16:BG:56:PHE:CD1	2.55	0.59
10:BA:83:C:H2'	10:BA:84:U:C5'	2.20	0.59
10:BA:874:U:H3	10:BA:892:G:N2	1.99	0.59
17:BH:30:VAL:HG21	17:BH:61:VAL:HG23	1.83	0.59
3:A3:178:THR:HG21	3:A3:180:ARG:HD2	1.82	0.59
10:AA:1430:C:H3'	22:AM:138:THR:HG21	1.84	0.59
10:BA:859:A:H8	10:BA:859:A:H5'	1.64	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BR:298:PRO:HD2	27:BR:334:ARG:HH21	1.66	0.59
10:BA:325:U:O2'	10:BA:326:U:H5'	2.02	0.59
15:AF:39:PRO:HG2	15:AF:42:PHE:CE1	2.36	0.59
25:BP:82:LYS:HD2	25:BP:83:TYR:HE1	1.68	0.59
15:AF:48:MET:CE	15:AF:59:ALA:HB1	2.33	0.59
9:A9:83:LYS:HG3	9:A9:84:LYS:H	1.67	0.59
14:AE:46:ASP:OD2	35:AZ:26:ALA:HB1	2.01	0.59
10:AA:272:U:H3'	10:AA:273:A:H5''	1.84	0.59
30:AU:58:LEU:O	30:AU:62:LEU:HG	2.02	0.59
17:AH:28:ARG:HB3	17:AH:29:PRO:CD	2.32	0.59
21:BL:54:GLU:HG3	21:BL:56:ILE:HG13	1.84	0.59
29:BT:61:THR:HG23	29:BT:107:ALA:HB1	1.84	0.59
10:AA:546:G:H2'	10:AA:547:C:C6	2.37	0.59
10:BA:1110:A:O2'	10:BA:1111:A:OP2	2.19	0.59
14:BE:154:THR:HG23	14:BE:197:ILE:HG22	1.83	0.59
10:AA:1514:G:H22	10:AA:1540:G:H2'	1.65	0.59
10:AA:1455:A:N1	10:AA:1563:C:H1'	2.17	0.59
10:AA:1558:A:C4	10:AA:1583:A:N6	2.70	0.59
10:AA:132:U:C1'	34:AY:149:LYS:HZ3	2.15	0.59
25:AP:7:THR:OG1	25:AP:10:ILE:HD11	2.02	0.59
10:AA:934:U:H2'	10:AA:935:G:H5'	1.83	0.59
30:AU:89:ASN:O	30:AU:91:LYS:N	2.34	0.59
10:AA:1720:G:H3'	10:AA:1720:G:P	2.42	0.59
9:B9:159:UNK:C	9:B9:162:UNK:HG3	2.31	0.59
31:AV:17:ILE:CD1	31:AV:57:LEU:HB2	2.32	0.59
10:BA:942:U:H1'	10:BA:943:U:C6	2.37	0.59
10:AA:1229:U:H2'	10:AA:1229:U:O2	2.00	0.59
11:BB:8:ASP:O	11:BB:12:ARG:HG2	2.03	0.59
10:AA:1403:U:O2'	10:AA:1404:G:OP2	2.19	0.59
10:BA:955:A:C2'	10:BA:956:A:C5'	2.76	0.59
10:BA:623:U:OP2	10:BA:947:C:N4	2.35	0.59
10:AA:315:U:H2'	10:AA:316:G:H8	1.67	0.59
10:AA:316:G:O4'	26:AQ:79:MET:HE2	2.02	0.59
10:AA:478:G:H1	10:AA:493:U:H3	1.48	0.59
26:BQ:11:LYS:O	26:BQ:53:VAL:HG21	2.01	0.59
4:B4:73:ALA:CB	20:BK:128:ARG:NH2	2.65	0.59
2:A2:105:VAL:HG13	10:AA:320:G:H4'	1.83	0.59
2:B2:22:ARG:HD2	2:B2:25:ARG:CZ	2.32	0.59
14:AE:39:TYR:HE2	14:AE:251:LYS:HE3	1.68	0.59
25:BP:15:LEU:HD22	32:BW:71:ASN:CB	2.32	0.59
32:BW:102:ARG:CG	32:BW:116:LEU:HD21	2.31	0.59
10:AA:986:G:OP1	20:AK:149:ARG:NE	2.34	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BY:76:LEU:CD2	34:BY:94:ARG:HD2	2.32	0.59
10:BA:430:A:O2'	10:BA:457:G:N2	2.35	0.59
25:AP:56:TYR:HE1	25:AP:70:PHE:HB2	1.65	0.59
27:BR:86:GLN:HB2	27:BR:130:ASN:HD21	1.67	0.59
5:A5:10:ARG:HB2	5:A5:33:ASP:OD2	2.01	0.59
10:BA:504:A:OP2	13:BD:174:ARG:HG2	2.02	0.59
2:A2:154:THR:O	2:A2:156:ALA:N	2.31	0.59
9:B9:116:CYS:HA	9:B9:125:MET:SD	2.43	0.59
10:AA:687:U:H2'	10:AA:688:A:H8	1.67	0.59
10:BA:1422:C:H5''	23:BN:8:THR:HB	1.84	0.59
3:B3:79:LYS:HA	3:B3:82:ILE:HD12	1.84	0.59
21:AL:37:ARG:HG2	21:AL:44:GLY:HA2	1.84	0.59
10:BA:932:G:H5'	24:BO:7:LYS:HZ1	1.67	0.59
32:AW:213:LYS:HG2	32:AW:214:ASP:N	2.16	0.59
8:B8:51:GLU:OE1	8:B8:51:GLU:HA	2.02	0.59
10:AA:1384:U:H4'	10:AA:1385:U:OP1	2.02	0.59
10:BA:359:U:H2'	10:BA:360:U:H5'	1.84	0.59
14:BE:154:THR:HG23	14:BE:197:ILE:CG2	2.33	0.59
14:BE:141:ARG:HB2	14:BE:223:TYR:CE2	2.38	0.59
10:BA:984:C:O2	20:BK:151:LEU:HD22	2.03	0.59
18:BI:43:PRO:O	18:BI:45:ILE:N	2.36	0.59
10:BA:878:A:P	20:BK:59:GLY:HA3	2.43	0.59
6:B6:77:PHE:CD1	6:B6:77:PHE:O	2.55	0.59
17:BH:17:ALA:HA	17:BH:22:LYS:HE3	1.84	0.59
8:B8:60:VAL:O	8:B8:60:VAL:HG12	2.02	0.59
10:BA:1514:G:H22	10:BA:1540:G:H2'	1.66	0.59
23:BN:39:ARG:HG3	23:BN:40:ARG:HG2	1.84	0.59
5:A5:30:VAL:CG2	5:A5:76:CYS:HB2	2.31	0.59
34:BY:16:ILE:HD13	34:BY:45:PHE:HZ	1.66	0.59
1:B1:11:ILE:HG12	1:B1:27:VAL:HG11	1.84	0.59
13:BD:108:ARG:HH22	13:BD:126:ARG:NH2	2.00	0.59
10:AA:328:G:H3'	26:AQ:132:LYS:HE2	1.84	0.59
10:AA:328:G:H2'	26:AQ:132:LYS:NZ	2.18	0.59
2:B2:10:LYS:HZ3	10:BA:330:C:P	2.25	0.59
11:BB:63:VAL:HG11	11:BB:69:VAL:CG2	2.32	0.59
10:AA:552:C:H4'	33:AX:66:LYS:CE	2.31	0.59
3:A3:46:LYS:O	3:A3:61:VAL:HG13	2.03	0.59
27:AR:314:SER:O	27:AR:315:LEU:HD23	2.01	0.59
22:AM:64:ASP:O	22:AM:68:LYS:HG2	2.03	0.59
3:A3:80:LEU:HD13	3:A3:94:PHE:CE2	2.38	0.59
10:BA:419:C:O2'	10:BA:420:A:H5'	2.02	0.59
18:AI:88:SER:O	18:AI:92:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:9:LEU:HD12	32:BW:10:LYS:N	2.18	0.59
10:BA:224:G:H1	10:BA:233:U:H3	1.49	0.59
10:BA:1575:U:H2'	10:BA:1576:U:H6	1.67	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
10:BA:1421:G:H4'	23:BN:6:TRP:HB2	1.83	0.59
16:BG:183:SER:OG	16:BG:186:ILE:HB	2.02	0.59
10:AA:830:G:H2'	10:AA:831:G:H8	1.66	0.59
10:BA:1397:C:H5''	10:BA:1398:A:OP2	2.01	0.59
7:B7:89:PRO:HG2	7:B7:92:PHE:HB2	1.84	0.59
11:AB:174:ILE:O	11:AB:178:VAL:HG23	2.03	0.59
10:BA:1265:U:H2'	10:BA:1266:G:H8	1.68	0.59
13:AD:80:MET:HE1	13:AD:96:VAL:HG13	1.82	0.59
14:BE:159:ILE:CD1	14:BE:222:THR:HA	2.33	0.59
10:AA:537:A:HO2'	10:AA:538:A:P	2.26	0.59
10:AA:159:G:O2'	10:AA:160:C:H5'	2.03	0.59
10:BA:1719:A:H1'	10:BA:1747:A:C4	2.38	0.59
6:A6:17:ASN:O	6:A6:19:PHE:N	2.35	0.59
30:AU:89:ASN:ND2	30:AU:90:ALA:N	2.35	0.59
10:BA:72:G:C3'	10:BA:72:G:C8	2.85	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
23:BN:25:ALA:HB1	23:BN:27:GLN:OE1	2.02	0.59
1:B1:42:ILE:N	1:B1:63:GLU:HG3	2.15	0.59
10:BA:1461:A:H5''	10:BA:1486:U:H3	1.68	0.59
1:B1:19:GLY:C	1:B1:21:ARG:N	2.56	0.59
4:A4:48:THR:CG2	4:A4:49:LEU:H	2.09	0.59
10:BA:206:U:H5''	26:BQ:20:LYS:CD	2.33	0.59
10:AA:1260:G:H2'	10:AA:1261:U:H5'	1.84	0.59
10:BA:77:G:H2'	10:BA:78:C:H6	1.67	0.59
28:AS:66:ARG:HH12	28:AS:93:GLU:CB	2.15	0.59
10:AA:866:U:C3'	10:AA:867:U:H5''	2.33	0.59
10:BA:1517:A:OP1	22:BM:133:VAL:N	2.32	0.59
10:BA:787:A:H1'	17:BH:105:THR:HG23	1.84	0.59
31:BV:112:GLN:HE21	31:BV:113:ASN:HD22	1.51	0.59
30:AU:120:ILE:C	30:AU:122:GLY:H	2.06	0.59
32:AW:123:TYR:CD2	32:AW:163:LYS:HE2	2.38	0.59
12:AC:215:ILE:HD12	31:AV:15:SER:HB2	1.85	0.59
30:BU:106:ARG:O	30:BU:107:LYS:HG3	2.03	0.59
18:AI:51:TYR:HA	18:AI:54:ILE:HD12	1.84	0.59
14:AE:159:ILE:HG22	14:AE:160:THR:H	1.68	0.59
8:A8:60:VAL:HG13	8:A8:72:LYS:HG2	1.83	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:83:C:H2'	10:AA:84:U:C5'	2.18	0.59
16:BG:34:ALA:CB	16:BG:62:PRO:HA	2.33	0.59
10:BA:1453:C:O2'	18:BI:79:GLN:NE2	2.35	0.59
5:A5:38:ARG:NE	10:AA:1751:U:C5	2.71	0.59
12:BC:10:LYS:HA	12:BC:13:LYS:HG2	1.85	0.59
23:BN:33:TYR:O	23:BN:34:GLU:HB2	2.02	0.59
34:AY:23:LYS:HD3	34:AY:41:LEU:CD2	2.24	0.59
10:AA:1707:G:H2'	10:AA:1708:A:C8	2.38	0.59
13:BD:126:ARG:HA	13:BD:129:ILE:HD11	1.84	0.59
14:BE:228:PRO:C	14:BE:230:PHE:H	2.06	0.59
26:BQ:127:CYS:SG	26:BQ:130:ILE:HD11	2.43	0.59
4:B4:73:ALA:CB	20:BK:128:ARG:HH22	2.15	0.59
26:AQ:87:ARG:HD3	26:AQ:104:ARG:CZ	2.33	0.59
26:AQ:9:TYR:O	26:AQ:10:GLN:CB	2.51	0.59
26:BQ:6:GLN:OE1	26:BQ:6:GLN:HA	2.02	0.59
10:BA:104:A:H2'	10:BA:105:G:C8	2.36	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
17:AH:94:LEU:HD11	17:AH:102:VAL:HG23	1.85	0.59
27:AR:86:GLN:HB3	27:AR:87:GLU:OE2	2.02	0.59
10:BA:504:A:OP1	13:BD:175:LYS:HE3	2.02	0.59
13:BD:171:ARG:HB3	13:BD:175:LYS:HZ2	1.66	0.59
8:A8:29:LYS:NZ	10:AA:1509:U:H5'	2.18	0.59
35:AZ:37:LYS:HG2	35:AZ:38:LEU:H	1.68	0.59
28:BS:132:THR:HG22	28:BS:133:HIS:N	2.18	0.59
14:BE:112:ILE:HD12	14:BE:192:ALA:HB2	1.85	0.59
9:B9:123:ILE:CD1	9:B9:136:LYS:HD2	2.33	0.59
14:AE:145:TRP:HE3	14:AE:173:ALA:O	1.86	0.59
6:A6:45:PHE:CD2	24:AO:57:ARG:HD3	2.37	0.59
10:AA:1603:A:N7	10:AA:1717:C:O4'	2.36	0.59
10:BA:1710:G:H5'	10:BA:1711:U:OP2	2.03	0.59
11:AB:13:LEU:HA	11:AB:169:MET:CE	2.33	0.59
9:B9:92:HIS:NE2	10:BA:1225:U:O4	2.35	0.59
20:AK:27:VAL:HG21	20:AK:89:LYS:O	2.02	0.59
10:BA:392:A:H3'	10:BA:393:C:O4'	2.01	0.59
11:AB:99:TRP:CH2	11:AB:104:LEU:HG	2.38	0.59
20:BK:62:VAL:CG1	20:BK:63:LYS:H	2.15	0.59
10:BA:454:C:H2'	10:BA:455:C:C5'	2.33	0.59
34:AY:55:GLY:O	34:AY:62:PRO:HA	2.02	0.59
27:AR:174:MET:HE3	27:AR:178:ASN:HB2	1.85	0.59
18:AI:112:MET:CE	18:AI:112:MET:HA	2.32	0.59
10:BA:802:U:H3	10:BA:830:G:H1	1.51	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:BJ:95:VAL:N	19:BJ:96:PRO:HD2	2.17	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:BA:812:U:H2'	10:BA:813:U:H5'	1.84	0.59
10:AA:14:C:H1'	10:AA:1114:G:N2	2.17	0.59
4:A4:124:ILE:CG2	4:A4:167:VAL:HG13	2.33	0.59
10:BA:12:U:H2'	10:BA:13:C:C6	2.38	0.59
10:BA:533:G:C8	33:BX:28:ARG:NH1	2.69	0.59
6:A6:34:LYS:HE2	6:A6:41:ILE:HD11	1.83	0.59
21:BL:116:ILE:HG23	21:BL:117:PRO:HD2	1.84	0.59
13:AD:37:LYS:HE2	13:AD:126:ARG:NH1	2.17	0.59
10:BA:871:U:H2'	10:BA:872:A:O4'	2.03	0.59
20:BK:36:THR:CG2	20:BK:37:TRP:N	2.66	0.59
10:AA:643:U:O2'	10:AA:644:U:O5'	2.13	0.59
10:BA:1246:C:O2'	10:BA:1247:A:H5''	2.03	0.59
10:AA:880:G:O6	20:AK:68:GLU:CD	2.41	0.59
14:AE:228:PRO:C	14:AE:230:PHE:H	2.06	0.59
10:AA:1405:U:H5	38:AA:2431:HOH:O	1.85	0.59
14:AE:91:THR:O	14:AE:94:GLY:N	2.35	0.59
10:BA:1228:A:H5'	10:BA:1229:U:OP2	2.02	0.59
27:AR:184:ALA:N	27:AR:206:ARG:HH22	1.96	0.59
4:A4:90:VAL:HG23	4:A4:104:TYR:HB2	1.85	0.59
2:A2:10:LYS:HD2	10:AA:314:A:OP2	2.03	0.59
16:BG:95:ILE:HG21	16:BG:103:PRO:HB3	1.82	0.59
11:AB:63:VAL:HG11	11:AB:69:VAL:CG2	2.32	0.59
32:BW:122:LYS:HG3	32:BW:167:VAL:HG23	1.85	0.59
10:AA:1290:G:OP1	31:AV:67:ARG:HG2	2.01	0.59
22:BM:64:ASP:O	22:BM:68:LYS:HG2	2.02	0.59
27:AR:298:PRO:HD2	27:AR:334:ARG:HH21	1.67	0.59
10:BA:481:A:H2'	10:BA:482:A:H5''	1.83	0.59
32:BW:177:LEU:HD23	32:BW:177:LEU:H	1.66	0.59
10:AA:721:A:H2'	10:AA:722:A:H8	1.66	0.59
15:AF:49:LYS:HE2	15:AF:53:LYS:HZ3	1.66	0.59
10:AA:1191:A:C6	10:AA:1237:G:H1'	2.38	0.59
16:AG:183:SER:OG	16:AG:186:ILE:HB	2.03	0.59
28:AS:86:ARG:NH1	28:AS:122:ALA:HB1	2.17	0.59
10:BA:724:C:H2'	10:BA:724:C:O2	2.02	0.59
5:B5:42:ARG:HB3	5:B5:69:LEU:HB3	1.84	0.59
32:BW:117:SER:OG	32:BW:119:GLU:HB2	2.03	0.59
10:BA:346:G:H2'	10:BA:347:G:H8	1.67	0.59
28:AS:36:ASP:O	28:AS:39:ALA:HB3	2.03	0.59
14:AE:182:ALA:HB3	14:AE:185:PRO:CD	2.32	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:BD:80:MET:HE1	13:BD:96:VAL:HG13	1.85	0.59
10:BA:1279:U:C2'	10:BA:1280:G:H5'	2.32	0.59
10:BA:73:A:H4'	10:BA:74:A:O5'	2.03	0.59
10:AA:1368:A:O2'	10:AA:1370:U:OP2	2.21	0.59
20:AK:36:THR:CG2	20:AK:37:TRP:N	2.65	0.59
10:BA:945:A:O2'	10:BA:946:U:H5'	2.02	0.59
30:BU:76:ARG:HG3	30:BU:99:GLY:CA	2.32	0.59
10:AA:821:C:H2'	10:AA:822:U:C6	2.38	0.59
28:AS:69:LYS:HE2	28:AS:97:GLY:N	2.18	0.59
10:AA:1613:C:C1'	10:AA:1715:A:H2	2.12	0.59
2:A2:87:LEU:HB3	2:A2:111:GLU:HB2	1.85	0.59
17:BH:18:GLU:OE1	17:BH:67:GLY:HA2	2.02	0.59
31:AV:105:MET:CE	31:AV:109:LEU:HD22	2.33	0.59
25:AP:55:VAL:HG22	25:AP:58:PHE:HE1	1.68	0.59
32:AW:163:LYS:HD2	32:AW:237:TRP:CE3	2.37	0.59
10:AA:1421:G:H4'	23:AN:6:TRP:CE3	2.36	0.59
13:AD:69:ARG:HH21	13:AD:92:LYS:HZ1	1.50	0.59
4:B4:77:ASP:C	4:B4:79:SER:H	2.06	0.59
15:BF:78:ARG:NH1	15:BF:100:GLY:HA3	2.18	0.59
10:AA:29:G:H4'	21:AL:130:SER:CB	2.33	0.59
19:BJ:38:ILE:CG1	19:BJ:104:PHE:HE2	2.16	0.59
10:BA:821:C:H2'	10:BA:822:U:C6	2.38	0.59
14:BE:81:VAL:HG11	14:BE:84:ILE:HD11	1.85	0.58
10:AA:536:C:O2'	10:AA:537:A:OP2	2.20	0.58
10:AA:86:C:C2'	10:AA:87:G:H5'	2.33	0.58
6:A6:17:ASN:O	6:A6:20:LYS:N	2.30	0.58
10:BA:133:A:H61	10:BA:169:G:H2'	1.68	0.58
10:BA:506:U:OP2	13:BD:169:GLU:CG	2.49	0.58
3:A3:95:THR:CG2	3:A3:96:ALA:H	2.16	0.58
10:AA:1172:G:H4'	10:AA:1173:G:C5'	2.29	0.58
10:AA:77:G:H2'	10:AA:78:C:H6	1.66	0.58
14:AE:39:TYR:O	14:AE:41:LYS:HG3	2.03	0.58
10:AA:89:A:O2'	32:AW:4:GLY:HA3	2.02	0.58
11:AB:2:ALA:HB3	11:AB:6:LYS:HD3	1.85	0.58
10:AA:734:U:O2	10:AA:782:A:C2	2.56	0.58
31:BV:105:MET:CE	31:BV:109:LEU:HD22	2.33	0.58
10:AA:1653:C:H5'	34:AY:65:GLN:NE2	2.17	0.58
10:BA:1299:C:O2'	12:BC:162:CYS:HB2	2.02	0.58
10:BA:1064:A:H4'	10:BA:1065:A:OP1	2.01	0.58
31:AV:112:GLN:HE21	31:AV:113:ASN:HD22	1.50	0.58
10:BA:271:U:H2'	10:BA:271:U:O2	2.03	0.58
2:B2:136:THR:HG22	2:B2:138:LEU:HG	1.84	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:AV:98:ILE:HG23	31:AV:102:THR:CG2	2.32	0.58
1:A1:24:ILE:N	1:A1:24:ILE:HD12	2.18	0.58
12:BC:213:VAL:HG12	12:BC:213:VAL:O	2.02	0.58
10:BA:1629:G:H1	10:BA:1696:U:H3	1.51	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
16:AG:26:ASP:OD1	16:AG:28:CYS:HB3	2.01	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:72:G:C8	10:AA:72:G:C3'	2.86	0.58
10:AA:1475:G:H5''	29:AT:100:HIS:CD2	2.37	0.58
10:AA:840:A:O2'	10:AA:841:A:P	2.61	0.58
4:B4:124:ILE:CG2	4:B4:167:VAL:HG13	2.33	0.58
20:AK:121:ARG:HG3	20:AK:122:SER:H	1.66	0.58
10:AA:611:U:O2'	10:AA:612:U:H5'	2.03	0.58
10:BA:65:C:C5	34:BY:177:PRO:HB3	2.38	0.58
13:AD:12:TYR:OH	13:AD:40:ARG:HB3	2.03	0.58
10:BA:840:A:H2'	10:BA:941:A:N6	2.17	0.58
10:AA:1230:U:H2'	10:AA:1231:C:H6	1.68	0.58
10:BA:1514:G:H5'	29:BT:90:GLY:HA3	1.84	0.58
10:AA:1531:G:H2'	10:AA:1532:U:OP1	2.04	0.58
10:BA:670:G:C2'	10:BA:671:A:H5'	2.34	0.58
20:AK:45:THR:HG22	20:AK:49:GLY:HA2	1.85	0.58
10:BA:929:A:C2'	10:BA:930:A:H5'	2.33	0.58
13:BD:108:ARG:HH22	13:BD:126:ARG:HH22	1.51	0.58
30:AU:28:GLY:O	30:AU:32:VAL:HG23	2.02	0.58
10:AA:1157:U:O2'	10:AA:1158:U:P	2.60	0.58
5:A5:46:ASP:HB2	5:A5:47:PRO:CD	2.28	0.58
4:A4:36:ALA:HB2	4:A4:101:THR:HB	1.85	0.58
10:AA:905:C:O2	20:AK:138:ASP:CB	2.46	0.58
10:AA:1260:G:C2'	10:AA:1261:U:H5'	2.32	0.58
22:AM:93:LYS:HA	22:AM:93:LYS:CE	2.26	0.58
10:AA:1715:A:C8	10:AA:1715:A:H3'	2.38	0.58
10:BA:570:G:C4'	10:BA:574:A:C2	2.85	0.58
10:AA:341:G:O2'	10:AA:342:U:P	2.61	0.58
2:A2:166:GLN:NE2	2:A2:173:LEU:HD23	2.18	0.58
12:BC:126:ILE:HG21	12:BC:157:GLN:HG3	1.85	0.58
32:AW:212:VAL:HG23	32:AW:220:PHE:CB	2.33	0.58
12:AC:161:ILE:HD12	12:AC:170:TYR:HB2	1.85	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:AX:34:ARG:HH11	33:AX:34:ARG:HB3	1.64	0.58
10:AA:249:A:H5'	32:AW:134:GLY:HA2	1.83	0.58
17:AH:94:LEU:HD11	17:AH:102:VAL:CG2	2.33	0.58
10:AA:1536:U:H2'	10:AA:1537:C:H6	1.68	0.58
12:AC:38:ALA:CB	12:AC:94:ILE:HD11	2.32	0.58
10:BA:271:U:H4'	10:BA:272:U:C5'	2.32	0.58
2:A2:136:THR:HG22	2:A2:138:LEU:HG	1.84	0.58
7:B7:47:ARG:CB	7:B7:50:LYS:HE2	2.32	0.58
3:B3:13:THR:H	3:B3:16:GLU:HB2	1.68	0.58
9:A9:88:HIS:NE2	10:AA:1220:C:OP1	2.36	0.58
27:BR:193:ASP:OD2	27:BR:195:ARG:HB2	2.03	0.58
10:AA:359:U:H2'	10:AA:360:U:H5'	1.85	0.58
14:AE:159:ILE:HG22	14:AE:160:THR:N	2.18	0.58
13:AD:17:ARG:NH2	14:AE:183:PRO:HD3	2.11	0.58
14:BE:205:THR:HG23	14:BE:211:PHE:CE1	2.39	0.58
10:BA:125:U:C4'	10:BA:126:A:H5''	2.22	0.58
10:AA:755:G:O5'	10:AA:755:G:H8	1.86	0.58
13:AD:129:ILE:N	13:AD:129:ILE:HD13	2.19	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:AA:873:G:H22	20:AK:55:ARG:NH2	2.01	0.58
11:AB:13:LEU:HA	11:AB:169:MET:HE3	1.84	0.58
10:AA:1171:G:OP1	23:AN:40:ARG:NH2	2.36	0.58
1:A1:19:GLY:C	1:A1:21:ARG:N	2.55	0.58
20:BK:77:ALA:O	20:BK:81:VAL:HG23	2.02	0.58
27:AR:51:VAL:HB	27:AR:72:LEU:HD12	1.84	0.58
14:BE:39:TYR:CE2	14:BE:251:LYS:HE3	2.38	0.58
3:A3:142:ARG:HH21	17:AH:51:GLU:HB2	1.68	0.58
14:AE:39:TYR:CE2	14:AE:251:LYS:HG3	2.39	0.58
13:AD:118:LEU:HD11	13:AD:158:PHE:CE1	2.39	0.58
12:AC:196:GLU:HG3	12:AC:203:PHE:HB2	1.84	0.58
10:AA:648:U:C5'	10:AA:649:U:OP2	2.48	0.58
10:BA:454:C:H2'	10:BA:455:C:H5'	1.85	0.58
10:AA:1013:G:O2'	10:AA:1014:A:H5'	2.03	0.58
18:AI:111:LEU:HD22	18:AI:118:LEU:HD13	1.84	0.58
10:BA:1300:G:H5'	12:BC:162:CYS:HB2	1.85	0.58
10:AA:201:A:C2'	10:AA:202:U:H5'	2.33	0.58
11:AB:64:GLN:HG2	14:AE:245:SER:CB	2.32	0.58
32:BW:37:LYS:HB3	32:BW:37:LYS:NZ	2.19	0.58
18:BI:112:MET:HA	18:BI:112:MET:HE2	1.83	0.58
11:AB:119:ILE:N	11:AB:119:ILE:HD12	2.18	0.58
25:BP:49:ASP:OD1	25:BP:51:ARG:HG2	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
10:BA:371:U:O2	10:BA:371:U:C2'	2.51	0.58
10:BA:347:G:O2'	10:BA:348:G:H5'	2.03	0.58
35:BZ:53:GLU:OE1	35:BZ:63:SER:HB2	2.03	0.58
21:BL:47:HIS:ND1	21:BL:104:ALA:HB2	2.17	0.58
12:BC:41:GLU:HG3	12:BC:54:LYS:HE2	1.86	0.58
10:AA:529:C:C4	10:AA:530:G:N7	2.71	0.58
12:AC:146:LYS:O	12:AC:147:GLN:HB3	2.03	0.58
14:BE:138:VAL:HG11	14:BE:220:ALA:CB	2.33	0.58
22:AM:28:THR:OG1	22:AM:29:PRO:HD3	2.04	0.58
10:AA:74:A:H1'	34:AY:179:ILE:CD1	2.33	0.58
10:BA:1716:A:OP2	10:BA:1721:G:P	2.62	0.58
10:AA:630:A:C2'	10:AA:631:C:H5''	2.32	0.58
1:A1:63:GLU:HG2	1:A1:63:GLU:O	2.02	0.58
29:BT:18:PHE:O	29:BT:21:GLU:HB2	2.04	0.58
13:AD:108:ARG:HH22	13:AD:126:ARG:HH22	1.50	0.58
10:AA:1358:A:O2'	10:AA:1359:C:OP1	2.21	0.58
34:AY:16:ILE:HD13	34:AY:45:PHE:HZ	1.66	0.58
1:B1:12:MET:CB	1:B1:28:ARG:HG2	2.25	0.58
10:AA:796:U:H3'	10:AA:797:A:O4'	2.03	0.58
3:B3:105:VAL:HG21	10:BA:676:C:OP1	2.03	0.58
10:AA:958:G:H4'	10:AA:1729:A:H4'	1.86	0.58
27:AR:134:LEU:HG	27:AR:142:ILE:CG2	2.33	0.58
27:AR:127:SER:HA	27:AR:170:TYR:CD2	2.38	0.58
4:A4:34:PHE:HE1	4:A4:89:LEU:HD12	1.67	0.58
2:B2:14:THR:O	2:B2:14:THR:HG22	2.03	0.58
2:B2:194:LYS:HE2	26:BQ:4:GLN:NE2	2.18	0.58
34:BY:132:LYS:HZ3	34:BY:163:ARG:CB	2.17	0.58
32:AW:108:LYS:CG	32:AW:110:ARG:HH21	2.16	0.58
14:AE:58:PRO:HG2	14:AE:59:GLU:OE1	2.03	0.58
12:AC:170:TYR:CG	12:AC:205:VAL:HG21	2.38	0.58
33:BX:63:HIS:C	33:BX:65:GLY:N	2.56	0.58
27:AR:277:GLY:HA3	27:AR:294:ILE:HA	1.85	0.58
34:BY:64:LYS:HZ1	34:BY:81:HIS:HB3	1.68	0.58
32:BW:205:GLY:O	32:BW:206:SER:CB	2.51	0.58
10:AA:271:U:H2'	10:AA:271:U:O2	2.02	0.58
30:BU:13:ALA:HB2	30:BU:82:TYR:CD1	2.38	0.58
10:AA:1265:U:H2'	10:AA:1266:G:H8	1.68	0.58
13:AD:55:ALA:O	13:AD:59:LEU:HG	2.03	0.58
32:AW:117:SER:OG	32:AW:119:GLU:HB2	2.04	0.58
27:BR:13:LYS:HZ3	27:BR:295:GLU:HB3	1.67	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BO:48:THR:HB	24:BO:51:GLN:HG3	1.85	0.58
11:AB:168:SER:HB2	11:AB:198:PHE:CB	2.33	0.58
22:AM:29:PRO:HA	22:AM:32:LEU:HD12	1.85	0.58
16:AG:34:ALA:CB	16:AG:62:PRO:HA	2.33	0.58
25:BP:18:ARG:NH2	25:BP:20:GLN:NE2	2.52	0.58
10:AA:1608:C:N3	10:AA:1610:G:C2	2.72	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
9:A9:128:HIS:HE1	10:AA:1222:U:H1'	1.69	0.58
11:AB:180:ILE:HG22	35:AZ:58:GLY:O	2.04	0.58
9:A9:129:TYR:HD1	9:A9:154:UNK:HG1	1.68	0.58
27:BR:146:ASN:C	27:BR:148:LEU:N	2.56	0.58
2:B2:105:VAL:HG12	2:B2:107:ASN:H	1.68	0.58
31:AV:46:LEU:O	31:AV:46:LEU:HD23	2.03	0.58
31:AV:41:VAL:HG11	31:AV:47:ARG:HB2	1.85	0.58
14:BE:39:TYR:CE2	14:BE:251:LYS:HG3	2.38	0.58
11:BB:56:ALA:O	11:BB:59:VAL:HG12	2.04	0.58
27:BR:334:ARG:HG3	27:BR:334:ARG:HH11	1.67	0.58
11:BB:2:ALA:HB1	35:BZ:97:GLU:HG2	1.86	0.58
10:BA:537:A:HO2'	10:BA:538:A:P	2.27	0.58
32:BW:207:PHE:CE2	32:BW:223:ARG:HD3	2.38	0.58
10:AA:147:G:H5''	34:AY:15:CYS:SG	2.43	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
7:A7:47:ARG:CB	7:A7:50:LYS:HE2	2.33	0.58
15:AF:23:VAL:HG21	15:AF:78:ARG:HD3	1.85	0.58
15:BF:23:VAL:CG2	15:BF:78:ARG:HD3	2.33	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
19:BJ:32:GLU:OE1	19:BJ:32:GLU:HA	2.03	0.58
10:BA:529:C:C4	10:BA:530:G:N7	2.72	0.58
24:BO:104:LEU:HD21	24:BO:113:SER:HB3	1.85	0.58
10:AA:15:U:H2'	10:AA:16:G:O4'	2.03	0.58
13:AD:96:VAL:O	13:AD:99:LEU:HG	2.03	0.58
4:A4:123:LEU:HD12	4:A4:124:ILE:N	2.18	0.58
10:BA:533:G:O2'	10:BA:534:A:C5'	2.51	0.58
10:AA:1473:G:H22	10:AA:1475:G:H3'	1.68	0.58
13:AD:128:LEU:C	13:AD:130:ARG:H	2.06	0.58
16:BG:163:SER:HB3	16:BG:166:GLU:HG3	1.85	0.58
23:BN:27:GLN:O	23:BN:28:GLY:C	2.39	0.58
10:AA:894:U:H3	20:AK:55:ARG:NH1	2.02	0.58
10:BA:670:G:O2'	10:BA:671:A:H5'	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:A8:30:TRP:CH2	15:BF:84:PHE:HZ	2.21	0.58
11:BB:188:ASP:O	11:BB:189:GLU:O	2.21	0.58
10:AA:1244:U:H3	10:AA:1409:G:H1	1.52	0.58
10:BA:157:G:O5'	10:BA:157:G:H8	1.87	0.58
10:AA:1728:U:H3	10:AA:1739:G:H1	1.51	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
10:AA:337:G:H2'	10:AA:338:G:H8	1.68	0.58
10:AA:215:A:N6	10:AA:822:U:H1'	2.19	0.58
22:BM:125:LEU:HD23	22:BM:129:TRP:HE1	1.67	0.58
10:BA:747:G:N2	10:BA:755:G:C6	2.72	0.58
14:BE:39:TYR:HE2	14:BE:251:LYS:HE3	1.67	0.58
2:A2:196:LEU:HG	2:A2:200:ILE:HD11	1.85	0.58
2:B2:43:THR:O	2:B2:44:THR:CB	2.52	0.58
10:AA:734:U:C2	10:AA:735:G:N7	2.72	0.58
10:BA:786:A:O2'	10:BA:787:A:OP1	2.20	0.58
20:BK:121:ARG:HG3	20:BK:122:SER:H	1.67	0.58
13:AD:100:THR:HG21	13:AD:102:HIS:HB3	1.86	0.58
32:AW:205:GLY:O	32:AW:206:SER:CB	2.52	0.58
3:B3:14:LYS:O	3:B3:18:GLN:HG3	2.04	0.58
10:BA:1086:G:C2'	10:BA:1087:U:OP2	2.50	0.58
18:AI:32:LYS:HE3	18:AI:35:GLY:HA2	1.86	0.58
27:AR:211:ALA:C	27:AR:212:HIS:HD2	2.07	0.58
3:B3:192:PHE:CE1	6:B6:14:LYS:HA	2.37	0.58
33:BX:38:ARG:HG2	33:BX:42:ASN:HD21	1.69	0.58
10:AA:1701:C:C2'	10:AA:1702:A:H5'	2.33	0.58
10:BA:1403:U:O2'	10:BA:1404:G:OP2	2.17	0.58
5:A5:42:ARG:HB3	5:A5:69:LEU:HB3	1.84	0.58
19:AJ:38:ILE:CG1	19:AJ:104:PHE:HE2	2.16	0.58
28:BS:36:ASP:O	28:BS:39:ALA:HB3	2.03	0.58
22:BM:41:ARG:HE	29:BT:41:THR:HG22	1.68	0.58
23:AN:33:TYR:O	23:AN:34:GLU:CB	2.52	0.58
10:AA:424:A:O2'	10:AA:425:A:H5'	2.04	0.58
18:BI:13:GLY:HA2	18:BI:85:GLN:HE21	1.68	0.58
6:B6:34:LYS:HE2	6:B6:41:ILE:CD1	2.33	0.58
28:AS:69:LYS:HZ1	28:AS:94:LEU:C	2.05	0.58
26:AQ:125:GLY:O	26:AQ:136:PHE:HD1	1.86	0.58
27:AR:334:ARG:HH11	27:AR:334:ARG:HG3	1.68	0.58
30:BU:86:PHE:HB3	30:BU:97:VAL:HG23	1.86	0.58
22:AM:14:ILE:HG23	22:AM:22:ILE:HG23	1.85	0.58
33:BX:34:ARG:HH11	33:BX:34:ARG:HB3	1.66	0.58
29:AT:18:PHE:O	29:AT:21:GLU:HB2	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:B7:40:LEU:O	7:B7:44:ILE:HG13	2.03	0.58
4:A4:77:ASP:C	4:A4:79:SER:H	2.06	0.58
30:AU:13:ALA:HB2	30:AU:82:TYR:CD1	2.39	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
10:BA:1018:G:H8	10:BA:1018:G:H5'	1.67	0.58
1:A1:54:VAL:HB	16:AG:28:CYS:HA	1.86	0.58
13:AD:26:ASN:O	13:AD:29:LYS:HG3	2.04	0.58
19:BJ:45:THR:HB	19:BJ:48:VAL:CG2	2.33	0.58
31:AV:103:LYS:HD2	31:AV:118:VAL:HG11	1.86	0.58
7:B7:25:LYS:HE3	7:B7:27:ASP:HB3	1.85	0.58
17:AH:76:SER:CB	17:AH:77:PRO:CD	2.82	0.58
10:BA:15:U:H2'	10:BA:16:G:O4'	2.03	0.58
10:BA:5:U:OP2	14:BE:205:THR:HB	2.04	0.58
16:AG:51:TYR:CE2	16:AG:61:CYS:HA	2.39	0.58
10:AA:80:A:O2'	10:AA:81:A:H5'	2.04	0.58
10:AA:757:C:N4	10:AA:770:G:C4	2.72	0.58
18:AI:43:PRO:O	18:AI:45:ILE:N	2.36	0.58
10:AA:1716:A:C3'	10:AA:1717:C:H5''	2.33	0.58
10:BA:80:A:O2'	10:BA:81:A:H5'	2.03	0.58
11:BB:13:LEU:HA	11:BB:169:MET:CE	2.32	0.58
11:BB:12:ARG:O	11:BB:169:MET:HE1	2.03	0.58
9:A9:98:LEU:HD23	9:A9:100:PHE:CE1	2.38	0.58
18:BI:129:LYS:O	18:BI:130:LYS:HG3	2.03	0.58
27:AR:250:ARG:NH2	27:AR:286:GLN:HA	2.18	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
32:AW:122:LYS:HG3	32:AW:167:VAL:CG2	2.34	0.58
10:AA:419:C:O2'	10:AA:420:A:H5'	2.02	0.58
10:AA:1278:C:N4	10:AA:1290:G:H1	1.99	0.58
14:BE:74:GLU:C	14:BE:76:LYS:H	2.06	0.58
31:BV:103:LYS:HD2	31:BV:118:VAL:HG11	1.85	0.58
25:AP:82:LYS:HD2	25:AP:83:TYR:HE1	1.69	0.58
21:BL:78:ASN:ND2	21:BL:80:LYS:CG	2.66	0.58
11:AB:156:VAL:HG23	35:AZ:80:HIS:CB	2.32	0.58
13:BD:94:ASP:CB	14:BE:149:ILE:HD11	2.32	0.58
10:AA:271:U:H4'	10:AA:272:U:C5'	2.33	0.58
14:BE:107:ASP:OD1	14:BE:111:HIS:HB2	2.04	0.58
1:B1:24:ILE:HD12	1:B1:24:ILE:N	2.18	0.58
13:BD:65:LYS:HA	13:BD:70:LEU:HD21	1.85	0.58
28:AS:82:LYS:HB3	28:AS:107:PHE:CE2	2.39	0.58
10:BA:1052:U:O2	10:BA:1052:U:H2'	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:A4:166:GLN:O	4:A4:169:ALA:HB3	2.04	0.58
13:AD:80:MET:HE3	13:AD:96:VAL:HG13	1.86	0.58
10:AA:498:C:O2'	10:AA:499:A:OP2	2.20	0.58
10:AA:63:U:O2'	10:AA:162:A:H1'	2.04	0.58
24:AO:143:TYR:HA	24:AO:147:THR:CG2	2.34	0.58
1:B1:58:MET:O	1:B1:59:GLU:HB2	2.02	0.58
11:AB:5:ARG:HG2	11:AB:187:LYS:NZ	2.18	0.58
5:A5:45:VAL:HG21	5:A5:53:ILE:HD12	1.84	0.58
10:BA:206:U:H5''	26:BQ:20:LYS:HD2	1.85	0.58
10:AA:235:A:H3'	10:AA:814:A:OP1	2.04	0.58
10:AA:859:A:H5'	10:AA:859:A:C8	2.39	0.58
7:B7:90:LYS:HB2	12:BC:74:GLN:HE22	1.68	0.58
2:A2:43:THR:O	2:A2:44:THR:CB	2.52	0.58
27:BR:250:ARG:NH2	27:BR:286:GLN:HA	2.19	0.58
2:B2:87:LEU:HB3	2:B2:111:GLU:HB2	1.86	0.58
32:BW:88:LEU:CD1	32:BW:104:LEU:HD23	2.34	0.58
12:AC:118:VAL:O	12:AC:121:ALA:HB3	2.04	0.58
10:AA:435:C:O2'	10:AA:436:C:H5'	2.03	0.58
10:BA:865:A:H2'	10:BA:866:U:C6	2.39	0.58
2:A2:23:LYS:HE3	10:AA:382:A:OP2	2.04	0.58
10:AA:447:C:O2	10:AA:447:C:C2'	2.51	0.58
2:B2:84:THR:CG2	2:B2:113:ASP:HB3	2.34	0.58
10:AA:149:U:H4'	34:AY:59:ASP:HA	1.86	0.58
3:A3:138:GLY:N	3:A3:154:GLN:HB2	2.19	0.58
7:A7:52:ARG:HB2	7:A7:54:PHE:HE1	1.67	0.58
32:AW:43:PRO:HG2	32:AW:46:VAL:CG2	2.34	0.58
12:BC:215:ILE:HA	31:BV:39:ALA:HB2	1.85	0.58
6:B6:57:CYS:SG	6:B6:58:SER:N	2.73	0.58
21:AL:56:ILE:HG22	21:AL:57:GLY:N	2.18	0.58
16:AG:170:ASP:HA	16:AG:173:ILE:HD12	1.85	0.58
24:AO:48:THR:HB	24:AO:51:GLN:HG3	1.84	0.58
11:AB:89:THR:HB	11:AB:91:CYS:SG	2.44	0.58
27:BR:58:GLU:HA	27:BR:58:GLU:OE1	2.03	0.58
14:BE:99:PHE:O	14:BE:118:VAL:HA	2.04	0.58
22:AM:146:VAL:CG1	22:AM:147:VAL:H	2.04	0.58
10:AA:1585:U:H5	16:AG:52:GLN:NE2	2.02	0.58
10:AA:840:A:N6	24:AO:72:LYS:HZ3	2.01	0.58
18:BI:49:LYS:HA	18:BI:52:GLU:HG3	1.86	0.58
10:BA:168:U:H2'	10:BA:169:G:O4'	2.03	0.58
10:BA:843:A:H2'	10:BA:844:G:H8	1.69	0.58
10:AA:1228:A:H5'	10:AA:1229:U:OP2	2.04	0.58
4:B4:48:THR:CG2	4:B4:49:LEU:H	2.09	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:BK:27:VAL:HG21	20:BK:89:LYS:O	2.04	0.58
10:AA:495:C:C2'	10:AA:496:G:H5'	2.34	0.58
10:AA:628:G:H4'	17:AH:4:VAL:HG12	1.86	0.58
2:B2:148:GLN:OE1	10:BA:189:C:H1'	2.03	0.58
29:AT:15:ALA:HB2	29:AT:66:ARG:NE	2.18	0.58
10:BA:1253:G:H5''	19:BJ:76:THR:OG1	2.03	0.58
10:AA:527:A:H2'	10:AA:528:G:C8	2.39	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
18:BI:138:SER:C	18:BI:139:LYS:HG3	2.24	0.58
10:AA:1256:C:O2'	10:AA:1257:U:P	2.62	0.58
10:AA:347:G:O2'	10:AA:348:G:H5'	2.04	0.58
10:AA:1018:G:O2'	10:AA:1019:G:H5'	2.03	0.58
27:AR:58:GLU:HA	27:AR:58:GLU:OE1	2.04	0.58
4:B4:116:MET:CE	4:B4:215:ASN:HB3	2.34	0.58
10:AA:553:A:O2'	10:AA:554:U:OP2	2.19	0.58
10:AA:1072:G:C4'	10:AA:1073:G:OP2	2.45	0.57
10:AA:501:U:H5'	10:AA:501:U:C6	2.39	0.57
8:A8:45:ILE:HD11	8:A8:79:LEU:CD2	2.33	0.57
10:AA:771:A:H5''	10:AA:772:A:C5'	2.34	0.57
25:AP:18:ARG:CZ	25:AP:20:GLN:HE21	2.17	0.57
10:BA:1748:U:O2'	10:BA:1749:C:OP2	2.22	0.57
10:BA:1558:A:C4	10:BA:1583:A:C6	2.92	0.57
5:A5:85:VAL:O	5:A5:85:VAL:HG12	2.03	0.57
31:BV:61:ILE:C	31:BV:63:LYS:N	2.58	0.57
10:BA:1171:G:C8	23:BN:39:ARG:NH1	2.71	0.57
1:B1:62:ARG:O	1:B1:63:GLU:CB	2.52	0.57
1:B1:18:THR:CG2	1:B1:19:GLY:H	2.06	0.57
9:A9:142:LYS:HE2	9:A9:147:UNK:CB	2.34	0.57
10:AA:798:G:N3	10:AA:799:G:C8	2.72	0.57
10:AA:1430:C:C5'	22:AM:138:THR:HG21	2.27	0.57
10:AA:623:U:H3	10:AA:948:A:H62	1.49	0.57
10:AA:392:A:N7	10:AA:395:G:C5	2.72	0.57
12:AC:228:ARG:HH21	27:AR:243:LEU:HD22	1.68	0.57
27:AR:252:PHE:HB3	27:AR:281:PHE:HE2	1.69	0.57
4:A4:31:TRP:CE3	20:AK:18:PRO:HD3	2.39	0.57
10:AA:1551:U:H1'	18:AI:141:GLN:NE2	2.17	0.57
10:BA:859:A:C5'	10:BA:859:A:C8	2.87	0.57
27:BR:314:SER:O	27:BR:326:ALA:HA	2.03	0.57
10:BA:1027:U:H2'	10:BA:1028:G:C5'	2.34	0.57
11:BB:99:TRP:CH2	11:BB:104:LEU:HG	2.36	0.57
2:A2:84:THR:CG2	2:A2:113:ASP:HB3	2.34	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:BK:78:ALA:HB1	20:BK:119:LEU:HD13	1.86	0.57
29:BT:116:ILE:HA	29:BT:136:GLY:HA3	1.84	0.57
12:AC:84:ASP:C	12:AC:86:GLN:H	2.05	0.57
10:BA:159:G:O2'	10:BA:160:C:H5'	2.03	0.57
10:BA:1679:A:H2'	10:BA:1680:A:C8	2.38	0.57
30:BU:35:THR:HG22	30:BU:41:ALA:HB2	1.84	0.57
10:BA:400:U:H5'	10:BA:1685:A:O2'	2.03	0.57
27:BR:91:ALA:HB2	27:BR:105:LEU:HD11	1.84	0.57
4:B4:226:ARG:O	4:B4:226:ARG:HG3	2.04	0.57
24:AO:107:ASN:O	24:AO:109:LYS:N	2.36	0.57
10:BA:1701:C:H2'	10:BA:1702:A:H5'	1.86	0.57
10:BA:906:U:C2'	10:BA:907:A:OP2	2.51	0.57
10:BA:611:U:O2'	10:BA:612:U:H5'	2.03	0.57
6:A6:31:MET:CE	6:A6:71:ILE:HD11	2.34	0.57
6:A6:45:PHE:CE2	24:AO:57:ARG:HD3	2.39	0.57
1:A1:58:MET:O	1:A1:59:GLU:HB2	2.04	0.57
30:AU:89:ASN:HD22	30:AU:90:ALA:H	1.48	0.57
6:B6:48:ALA:N	6:B6:69:VAL:HG21	2.18	0.57
13:BD:129:ILE:CG2	13:BD:134:ILE:HD12	2.29	0.57
20:AK:27:VAL:O	20:AK:92:ALA:HB3	2.03	0.57
10:AA:683:A:H2'	10:AA:684:A:O4'	2.04	0.57
10:BA:495:C:C2'	10:BA:496:G:H5'	2.34	0.57
10:AA:70:U:O4'	34:AY:173:ARG:NH1	2.36	0.57
10:BA:1501:C:OP2	16:BG:86:LYS:NZ	2.37	0.57
28:AS:91:ILE:O	28:AS:94:LEU:HB2	2.03	0.57
12:BC:77:GLN:O	12:BC:81:GLY:HA3	2.03	0.57
2:A2:87:LEU:HD21	2:A2:171:ARG:NH1	2.18	0.57
2:B2:87:LEU:HD21	2:B2:171:ARG:NH1	2.19	0.57
27:BR:297:GLU:HA	27:BR:300:THR:OG1	2.04	0.57
21:AL:52:VAL:HG13	21:AL:71:VAL:HG13	1.84	0.57
10:BA:66:A:C2'	10:BA:67:G:H5'	2.32	0.57
34:AY:70:ARG:HH21	34:AY:104:PRO:CD	2.16	0.57
10:BA:552:C:H4'	33:BX:66:LYS:CE	2.32	0.57
10:BA:865:A:H5''	20:BK:134:PRO:HB2	1.86	0.57
10:BA:460:A:N6	10:BA:589:G:C8	2.72	0.57
24:BO:31:THR:O	24:BO:32:PRO:C	2.41	0.57
10:AA:1416:G:HO2'	10:AA:1417:A:P	2.28	0.57
32:AW:222:THR:HG23	32:AW:223:ARG:N	2.19	0.57
18:BI:112:MET:CE	18:BI:112:MET:HA	2.35	0.57
10:BA:721:A:H2'	10:BA:722:A:H8	1.68	0.57
12:BC:36:GLY:O	12:BC:55:ALA:CA	2.52	0.57
10:AA:1398:A:H4'	10:AA:1398:A:OP2	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:145:LEU:HD13	12:AC:153:MET:CE	2.34	0.57
4:B4:116:MET:O	4:B4:117:ILE:HG12	2.04	0.57
27:AR:24:VAL:O	27:AR:313:THR:HB	2.03	0.57
22:BM:121:SER:HA	28:BS:123:GLU:O	2.04	0.57
21:BL:37:ARG:HG2	21:BL:44:GLY:HA2	1.86	0.57
14:AE:159:ILE:HD13	14:AE:222:THR:HA	1.85	0.57
10:AA:168:U:H2'	10:AA:169:G:O4'	2.04	0.57
10:BA:1608:C:N3	10:BA:1610:G:C2	2.71	0.57
10:AA:849:A:C4	10:AA:935:G:N2	2.72	0.57
10:BA:1555:A:HO2'	10:BA:1556:G:P	2.26	0.57
29:BT:21:GLU:HG3	29:BT:147:ILE:CD1	2.34	0.57
10:BA:164:U:O2'	10:BA:165:A:OP1	2.18	0.57
34:BY:137:ARG:HG3	34:BY:181:ARG:HG3	1.86	0.57
10:BA:1531:G:C4	22:BM:134:ARG:HD2	2.40	0.57
10:AA:879:G:OP2	20:AK:39:ASP:HB2	2.04	0.57
12:BC:10:LYS:NZ	19:BJ:86:LYS:HZ1	2.02	0.57
11:BB:196:ASP:OD1	31:BV:89:SER:HA	2.04	0.57
27:AR:111:TYR:CD1	27:AR:112:LYS:HG2	2.39	0.57
12:AC:228:ARG:NH2	27:AR:243:LEU:HD22	2.19	0.57
10:AA:674:U:H5'	10:AA:675:A:OP2	2.05	0.57
11:BB:119:ILE:N	11:BB:119:ILE:HD12	2.19	0.57
21:BL:71:VAL:HG23	21:BL:86:VAL:CG2	2.34	0.57
10:AA:430:A:O2'	10:AA:457:G:N2	2.37	0.57
25:AP:13:ASN:ND2	32:AW:54:TYR:O	2.37	0.57
29:BT:34:ILE:HD11	29:BT:58:TYR:HE1	1.70	0.57
10:AA:1653:C:H2'	10:AA:1654:U:O4'	2.04	0.57
34:AY:63:MET:HA	34:AY:98:ARG:O	2.04	0.57
28:BS:95:VAL:HG21	28:BS:117:ILE:HD11	1.85	0.57
11:AB:51:GLN:HE22	35:AZ:95:ILE:N	2.02	0.57
18:AI:57:LEU:CD2	18:AI:107:ILE:HG23	2.34	0.57
12:BC:211:ASP:O	12:BC:213:VAL:N	2.37	0.57
3:A3:43:THR:HG21	3:A3:97:GLN:HG2	1.86	0.57
12:BC:146:LYS:O	12:BC:147:GLN:HB3	2.03	0.57
12:AC:215:ILE:HA	31:AV:39:ALA:CB	2.34	0.57
18:BI:51:TYR:HA	18:BI:54:ILE:HD12	1.84	0.57
10:AA:1501:C:H2'	10:AA:1502:A:H8	1.69	0.57
2:A2:55:ARG:C	2:A2:55:ARG:HD3	2.24	0.57
22:AM:21:ASN:HD21	22:AM:102:SER:HB3	1.69	0.57
29:BT:45:VAL:H	29:BT:100:HIS:CG	2.23	0.57
10:AA:1583:A:C2	10:AA:1584:U:C5	2.92	0.57
10:AA:1486:U:O2'	12:AC:9:ASN:N	2.38	0.57
6:A6:48:ALA:N	6:A6:69:VAL:HG21	2.18	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1027:U:H2'	10:AA:1028:G:C5'	2.33	0.57
4:B4:123:LEU:HD12	4:B4:124:ILE:N	2.18	0.57
10:BA:1376:A:H2'	10:BA:1377:A:H8	1.70	0.57
8:B8:45:ILE:HD11	8:B8:79:LEU:CD2	2.32	0.57
22:BM:9:SER:C	22:BM:11:PHE:H	2.06	0.57
9:A9:129:TYR:HB2	9:A9:154:UNK:CB	2.33	0.57
2:B2:191:LEU:HB3	2:B2:196:LEU:HD13	1.86	0.57
10:AA:232:G:O2'	10:AA:233:U:H5'	2.04	0.57
14:AE:61:ILE:HD12	14:AE:134:LYS:CB	2.31	0.57
27:BR:252:PHE:HB3	27:BR:281:PHE:CE2	2.39	0.57
16:AG:14:PHE:HE2	16:AG:89:LYS:HA	1.64	0.57
31:BV:98:ILE:HG23	31:BV:102:THR:HB	1.85	0.57
10:BA:1488:A:HO2'	10:BA:1489:U:P	2.26	0.57
10:AA:413:C:H4'	10:AA:414:G:OP1	2.04	0.57
27:AR:276:GLN:O	27:AR:294:ILE:HG23	2.04	0.57
10:BA:513:A:H5'	10:BA:513:A:C8	2.39	0.57
10:AA:516:G:O2'	10:AA:517:U:H5'	2.04	0.57
3:B3:13:THR:HG22	3:B3:15:ILE:HD12	1.86	0.57
10:AA:1406:G:O2'	10:AA:1407:A:OP2	2.21	0.57
32:BW:213:LYS:HG2	32:BW:214:ASP:H	1.69	0.57
10:AA:525:U:H5''	25:AP:63:GLY:HA2	1.85	0.57
7:B7:100:ILE:HG22	12:BC:91:ALA:O	2.03	0.57
19:BJ:23:LEU:HD22	19:BJ:112:ILE:HG12	1.87	0.57
29:BT:19:ILE:HD13	29:BT:63:ALA:HB2	1.86	0.57
10:BA:1348:U:H2'	10:BA:1348:U:O2	2.03	0.57
29:AT:146:GLN:O	29:AT:150:LYS:HG3	2.04	0.57
17:AH:111:LEU:HB2	17:AH:116:CYS:SG	2.44	0.57
2:A2:159:LEU:O	2:A2:160:GLU:O	2.21	0.57
10:AA:1110:A:O2'	10:AA:1111:A:P	2.62	0.57
14:BE:159:ILE:HD13	14:BE:222:THR:HA	1.87	0.57
10:BA:500:U:C3'	10:BA:501:U:H5''	2.34	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
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
10:AA:1608:C:C4	10:AA:1610:G:N3	2.72	0.57
10:BA:670:G:H8	10:BA:670:G:H5'	1.69	0.57
3:A3:103:LYS:HB2	3:A3:104:TRP:CE3	2.39	0.57
10:BA:1002:U:C2'	10:BA:1003:A:H5'	2.34	0.57
2:B2:194:LYS:HD3	26:BQ:12:GLN:HE22	1.68	0.57
10:BA:494:A:C2	33:BX:48:HIS:HB3	2.39	0.57
14:BE:39:TYR:O	14:BE:41:LYS:HG3	2.03	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:212:VAL:HG23	32:BW:220:PHE:CB	2.34	0.57
30:BU:81:GLU:HG3	30:BU:97:VAL:CG2	2.33	0.57
10:BA:413:C:H4'	10:BA:414:G:OP1	2.04	0.57
10:AA:734:U:N3	10:AA:782:A:C2	2.71	0.57
19:AJ:32:GLU:OE1	19:AJ:32:GLU:HA	2.04	0.57
29:AT:111:LEU:CD2	29:AT:116:ILE:HD12	2.34	0.57
13:AD:100:THR:HG22	13:AD:102:HIS:HB3	1.87	0.57
2:A2:127:ILE:HD11	2:A2:153:ARG:HG3	1.87	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
11:AB:172:TRP:HE1	11:AB:191:TRP:HD1	1.50	0.57
10:BA:129:G:H2'	10:BA:130:A:O4'	2.04	0.57
17:AH:130:TYR:O	17:AH:130:TYR:CD1	2.58	0.57
12:BC:145:LEU:HD13	12:BC:153:MET:HE2	1.87	0.57
27:AR:271:ALA:HB2	27:AR:317:TRP:CZ2	2.40	0.57
4:A4:116:MET:O	4:A4:117:ILE:HG12	2.03	0.57
22:AM:121:SER:HA	28:AS:123:GLU:O	2.05	0.57
3:A3:157:GLN:OE1	3:A3:186:PHE:HB3	2.05	0.57
10:AA:5:U:OP2	14:AE:205:THR:HB	2.04	0.57
14:AE:189:LEU:HD13	14:AE:197:ILE:HD11	1.85	0.57
13:BD:80:MET:HE3	13:BD:96:VAL:HG13	1.84	0.57
10:AA:75:C:C6	10:AA:75:C:O5'	2.56	0.57
25:AP:53:VAL:HG22	25:AP:73:VAL:HG22	1.87	0.57
10:BA:1715:A:H3'	10:BA:1715:A:C8	2.40	0.57
10:BA:1583:A:O2'	10:BA:1584:U:H5'	2.04	0.57
31:AV:58:MET:HA	31:AV:58:MET:CE	2.34	0.57
23:BN:18:LYS:HD3	23:BN:30:ILE:HD12	1.86	0.57
10:AA:1522:U:H3	10:AA:1533:G:H1	1.52	0.57
14:BE:231:TRP:CD1	17:BH:68:ARG:HG3	2.39	0.57
30:BU:26:SER:HB2	30:BU:104:ALA:HB3	1.87	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:246:U:C4	26:BQ:14:GLY:HA3	2.38	0.57
12:BC:73:THR:O	12:BC:77:GLN:HG3	2.05	0.57
10:BA:190:G:H2'	10:BA:191:A:H8	1.70	0.57
17:AH:17:ALA:HA	17:AH:22:LYS:CE	2.35	0.57
35:AZ:47:VAL:CG1	35:AZ:74:ARG:HD2	2.34	0.57
12:BC:129:VAL:HG12	12:BC:134:ALA:HB2	1.85	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:BA:420:A:N3	10:BA:432:U:O2'	2.33	0.57
10:AA:1488:A:O2'	10:AA:1489:U:P	2.61	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AF:17:THR:O	15:AF:95:ASN:HB3	2.04	0.57
8:A8:63:VAL:CG2	16:AG:97:LEU:HB2	2.35	0.57
10:AA:1657:G:H2'	10:AA:1658:A:C8	2.40	0.57
32:AW:249:THR:HG22	32:AW:251:LEU:H	1.69	0.57
32:AW:117:SER:O	32:AW:119:GLU:N	2.37	0.57
30:AU:4:GLN:O	30:AU:5:ASN:C	2.43	0.57
5:A5:24:THR:HG21	5:A5:73:LEU:CD1	2.35	0.57
4:A4:226:ARG:HG3	4:A4:226:ARG:O	2.05	0.57
24:BO:43:ALA:HB1	24:BO:82:CYS:SG	2.44	0.57
10:AA:1110:A:H1'	10:AA:1111:A:O4'	2.04	0.57
10:BA:1069:U:HO2'	10:BA:1070:U:P	2.27	0.57
16:AG:163:SER:HB3	16:AG:166:GLU:HG3	1.85	0.57
16:AG:55:LYS:O	16:AG:56:PHE:CD1	2.56	0.57
10:AA:71:U:O2	10:AA:71:U:H2'	2.05	0.57
16:AG:116:PRO:HG3	16:AG:189:LYS:HA	1.86	0.57
31:AV:61:ILE:C	31:AV:63:LYS:N	2.58	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:AA:670:G:O2'	10:AA:671:A:H5'	2.05	0.57
10:BA:794:A:O3'	10:BA:797:A:H2	1.87	0.57
14:AE:228:PRO:HA	14:AE:231:TRP:CD1	2.37	0.57
27:AR:146:ASN:C	27:AR:148:LEU:N	2.58	0.57
10:AA:1606:C:H3'	10:AA:1606:C:C6	2.39	0.57
10:AA:393:C:C2'	10:AA:393:C:O2	2.53	0.57
10:AA:859:A:H5'	10:AA:859:A:H8	1.69	0.57
14:AE:39:TYR:CE2	14:AE:251:LYS:HE3	2.38	0.57
22:BM:148:CYS:SG	22:BM:149:GLY:N	2.78	0.57
11:AB:2:ALA:HB1	35:AZ:97:GLU:HG2	1.86	0.57
3:A3:65:VAL:CG2	3:A3:73:LEU:HD22	2.33	0.57
12:AC:40:ILE:CG2	12:AC:42:VAL:HG23	2.33	0.57
10:AA:897:A:H2'	10:AA:898:U:H6	1.70	0.57
10:BA:1054:U:H5'	10:BA:1055:G:OP1	2.05	0.57
32:BW:204:GLN:C	32:BW:206:SER:N	2.57	0.57
12:AC:227:ILE:HG12	27:AR:209:PHE:HE1	1.68	0.57
10:AA:721:A:H5''	32:AW:199:HIS:CD2	2.40	0.57
13:BD:100:THR:HG22	13:BD:102:HIS:H	1.69	0.57
28:AS:132:THR:HG22	28:AS:133:HIS:N	2.19	0.57
10:AA:1629:G:H1	10:AA:1696:U:H3	1.51	0.57
30:BU:106:ARG:C	30:BU:107:LYS:HG3	2.25	0.57
19:BJ:94:ASN:CB	19:BJ:96:PRO:HD2	2.35	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:174:A:H8	10:BA:174:A:O5'	1.88	0.57
19:BJ:18:ARG:HG2	19:BJ:117:THR:HB	1.86	0.57
19:AJ:45:THR:HB	19:AJ:48:VAL:CG2	2.35	0.57
10:AA:604:G:H22	10:AA:1080:G:H22	1.51	0.57
10:BA:604:G:H22	10:BA:1080:G:H22	1.52	0.57
1:A1:48:ALA:HB3	16:AG:139:MET:HB3	1.86	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
16:BG:45:PRO:HG3	16:BG:85:ILE:HG23	1.87	0.57
10:AA:1745:G:C3'	10:AA:1746:G:C5'	2.82	0.57
10:BA:424:A:H2'	10:BA:425:A:H8	1.70	0.57
13:AD:37:LYS:HZ1	13:AD:126:ARG:HH11	1.51	0.57
13:AD:8:THR:O	13:AD:9:SER:HB3	2.05	0.57
31:AV:27:ASP:O	31:AV:31:ASN:ND2	2.37	0.57
17:BH:25:VAL:CG2	17:BH:65:LEU:HD11	2.35	0.57
10:BA:1443:A:N7	10:BA:1507:U:H5	2.03	0.57
10:BA:796:U:H3'	10:BA:797:A:O4'	2.04	0.57
3:A3:95:THR:HG22	3:A3:96:ALA:O	2.05	0.57
11:BB:22:THR:CG2	11:BB:23:ILE:N	2.67	0.57
9:B9:98:LEU:HD23	9:B9:100:PHE:CE1	2.40	0.57
27:AR:77:HIS:HD2	27:AR:96:TRP:HB2	1.69	0.57
27:AR:9:ILE:HG21	27:AR:291:VAL:HG21	1.86	0.57
10:AA:477:G:C2'	10:AA:478:G:H5'	2.33	0.57
26:BQ:23:LEU:C	26:BQ:25:LYS:H	2.07	0.57
4:B4:71:THR:HB	20:BK:128:ARG:CZ	2.35	0.57
10:BA:477:G:C2'	10:BA:478:G:H5'	2.35	0.57
10:AA:235:A:C2'	10:AA:814:A:H5'	2.34	0.57
22:AM:93:LYS:HE2	28:AS:41:LEU:HD22	1.87	0.57
2:A2:14:THR:O	2:A2:16:GLY:N	2.38	0.57
20:BK:95:ILE:HD11	20:BK:126:ILE:HG21	1.86	0.57
12:AC:108:MET:O	12:AC:112:LEU:HG	2.03	0.57
32:AW:69:GLU:O	32:AW:70:GLN:HB2	2.04	0.57
10:AA:868:U:H2'	10:AA:869:A:H5'	1.87	0.57
10:BA:531:A:H8	10:BA:536:C:H42	1.52	0.57
10:AA:1652:A:N3	34:AY:66:GLY:HA3	2.20	0.57
35:AZ:34:TRP:CD1	35:AZ:82:ALA:HA	2.40	0.57
2:A2:57:ARG:O	2:A2:59:GLY:N	2.38	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
19:AJ:97:ASP:O	19:AJ:101:ILE:HG13	2.04	0.57
33:BX:42:ASN:HA	33:BX:46:ALA:HB2	1.87	0.57
1:A1:66:ARG:O	1:A1:67:LEU:HG	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A5:69:LEU:HD11	20:AK:108:PRO:HD3	1.86	0.57
12:AC:200:ALA:O	12:AC:201:LYS:HG3	2.03	0.57
10:AA:1059:A:H5'	10:AA:1270:U:O4	2.05	0.57
10:BA:350:A:H5''	10:BA:351:A:C5'	2.34	0.57
20:AK:101:GLY:O	20:AK:102:GLY:C	2.43	0.57
10:AA:7:G:H4'	10:AA:567:C:O2'	2.04	0.57
14:AE:220:ALA:C	14:AE:222:THR:H	2.08	0.57
10:BA:1475:G:H5''	29:BT:100:HIS:CD2	2.39	0.57
10:AA:134:C:O2'	10:AA:135:A:OP2	2.21	0.57
10:AA:73:A:H4'	10:AA:74:A:O5'	2.05	0.57
10:AA:1124:A:O2'	10:AA:1719:A:C2	2.56	0.57
10:AA:1418:C:O2'	10:AA:1419:G:P	2.63	0.57
10:BA:895:U:O2'	20:BK:43:HIS:CD2	2.54	0.57
1:B1:20:SER:C	1:B1:22:GLY:N	2.57	0.57
10:AA:1156:A:H2	10:AA:1425:G:N3	2.02	0.57
3:B3:131:LEU:H	3:B3:131:LEU:HD23	1.68	0.57
20:AK:95:ILE:HD12	20:AK:129:ILE:CG2	2.32	0.57
10:AA:562:G:OP1	21:AL:69:LYS:HE2	2.05	0.57
2:B2:95:ASN:HD22	10:BA:332:A:H4'	1.70	0.57
10:BA:341:G:O2'	10:BA:342:U:P	2.63	0.57
10:AA:420:A:N3	10:AA:432:U:O2'	2.35	0.57
4:B4:130:CYS:HB2	4:B4:138:ILE:CD1	2.32	0.57
17:AH:18:GLU:OE1	17:AH:67:GLY:HA2	2.05	0.57
24:AO:133:LEU:HA	26:AQ:147:ILE:HD12	1.86	0.57
3:A3:73:LEU:HD21	3:A3:94:PHE:HB3	1.86	0.57
10:AA:782:A:H2'	10:AA:783:U:O4'	2.04	0.57
3:A3:147:GLY:HA3	17:AH:39:ARG:HH21	1.69	0.57
14:AE:49:PHE:HD1	35:AZ:41:SER:HB3	1.69	0.57
14:BE:91:THR:O	14:BE:92:GLN:C	2.43	0.57
10:BA:970:A:H2	10:BA:1730:G:H4'	1.70	0.57
10:BA:1701:C:C2'	10:BA:1702:A:H5'	2.34	0.57
20:BK:42:ILE:HD11	20:BK:115:ALA:HB1	1.87	0.57
11:AB:127:PHE:CD1	11:AB:128:GLN:N	2.73	0.57
19:AJ:94:ASN:CB	19:AJ:96:PRO:HD2	2.34	0.57
21:BL:81:LYS:HD2	21:BL:81:LYS:O	2.05	0.57
10:BA:437:A:H2'	10:BA:437:A:N3	2.20	0.57
11:BB:168:SER:HB2	11:BB:198:PHE:CB	2.34	0.57
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
10:AA:129:G:H2'	10:AA:130:A:O4'	2.05	0.57
10:AA:1460:U:P	12:AC:9:ASN:HD21	2.28	0.57
24:AO:15:GLY:O	24:AO:16:SER:CB	2.53	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AK:78:ALA:HB1	20:AK:119:LEU:HD13	1.87	0.57
10:BA:1324:U:H2'	10:BA:1325:G:C8	2.40	0.57
10:AA:1750:A:OP1	10:AA:1750:A:H4'	2.04	0.57
10:BA:265:C:OP1	34:BY:180:GLN:NE2	2.38	0.57
20:BK:38:ASN:O	20:BK:68:GLU:HG3	2.04	0.57
26:AQ:117:LYS:HZ1	26:AQ:144:ASN:C	2.08	0.57
8:B8:75:VAL:CG1	8:B8:79:LEU:HD13	2.35	0.57
8:A8:30:TRP:CH2	15:BF:84:PHE:CZ	2.89	0.57
13:BD:109:LEU:HB2	13:BD:146:PHE:CB	2.30	0.57
9:A9:142:LYS:HE2	9:A9:147:UNK:HB2	1.87	0.57
12:AC:35:ALA:HA	12:AC:57:LYS:HD2	1.85	0.57
10:BA:1577:G:OP2	18:BI:129:LYS:HD3	2.04	0.57
13:AD:94:ASP:OD2	14:AE:147:ASN:HB2	2.04	0.57
3:B3:131:LEU:HD23	3:B3:131:LEU:N	2.20	0.57
16:BG:39:LYS:HE2	18:BI:113:GLN:O	2.05	0.57
31:AV:41:VAL:HG11	31:AV:47:ARG:HA	1.86	0.57
33:AX:58:LYS:HD3	33:AX:62:TRP:CH2	2.40	0.57
2:A2:192:GLU:HB2	26:AQ:19:SER:CB	2.34	0.57
32:BW:43:PRO:HG2	32:BW:46:VAL:CG2	2.34	0.57
10:BA:232:G:O2'	10:BA:233:U:H5'	2.05	0.57
11:BB:139:PRO:CD	35:BZ:47:VAL:HG21	2.34	0.57
10:BA:1653:C:H2'	10:BA:1654:U:O4'	2.05	0.57
10:AA:1204:U:C2'	10:AA:1205:G:H5'	2.35	0.57
14:BE:45:LEU:N	14:BE:64:PHE:CE2	2.73	0.57
2:A2:156:ALA:O	2:A2:158:ALA:N	2.36	0.57
10:BA:149:U:H4'	34:BY:58:LYS:O	2.04	0.57
3:B3:43:THR:HG21	3:B3:97:GLN:HG2	1.86	0.57
10:AA:1086:G:O2'	10:AA:1087:U:OP2	2.21	0.57
10:AA:1390:G:H2'	10:AA:1391:C:O4'	2.05	0.57
32:AW:255:LYS:O	32:AW:259:SER:HA	2.03	0.57
9:B9:78:LYS:HB2	9:B9:80:TYR:CE1	2.40	0.57
10:AA:546:G:C4	10:AA:547:C:C5	2.93	0.56
10:BA:17:C:H5'	10:BA:1081:G:C5'	2.35	0.56
10:BA:1081:G:C8	10:BA:1081:G:H5'	2.28	0.56
10:AA:1582:G:OP2	18:AI:77:THR:HG21	2.05	0.56
10:BA:501:U:H5'	10:BA:501:U:H6	1.70	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
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
6:A6:45:PHE:CE2	6:A6:47:ASN:HB2	2.40	0.56
16:BG:51:TYR:CE2	16:BG:61:CYS:HA	2.39	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1611:C:H2'	10:AA:1612:C:H5'	1.87	0.56
10:BA:1171:G:C2	23:BN:29:LEU:HD22	2.39	0.56
22:BM:28:THR:OG1	22:BM:29:PRO:HD3	2.05	0.56
10:BA:642:G:H22	10:BA:666:A:H2	1.53	0.56
34:AY:23:LYS:HE2	34:AY:41:LEU:HA	1.86	0.56
3:A3:131:LEU:N	3:A3:131:LEU:HD23	2.20	0.56
10:AA:634:C:H2'	10:AA:635:U:H5'	1.86	0.56
10:AA:1246:C:O2'	10:AA:1247:A:H5''	2.04	0.56
3:B3:103:LYS:HB2	3:B3:104:TRP:CE3	2.40	0.56
10:BA:634:C:H2'	10:BA:635:U:H5'	1.86	0.56
14:BE:56:LYS:HA	14:BE:56:LYS:CE	2.28	0.56
10:AA:945:A:O2'	10:AA:946:U:H5'	2.04	0.56
27:AR:99:THR:C	27:AR:100:LEU:HD12	2.25	0.56
10:AA:315:U:O2	10:AA:337:G:H1'	2.04	0.56
2:B2:10:LYS:NZ	10:BA:330:C:OP2	2.38	0.56
31:BV:20:TYR:CD1	31:BV:20:TYR:N	2.73	0.56
13:BD:8:THR:O	13:BD:9:SER:HB3	2.04	0.56
10:BA:1260:G:C2'	10:BA:1261:U:H5'	2.35	0.56
32:AW:185:ILE:HD11	32:AW:193:ARG:HB3	1.87	0.56
32:BW:124:LYS:HZ1	32:BW:145:ASP:CG	2.07	0.56
32:AW:106:ASP:HB3	32:AW:108:LYS:H	1.70	0.56
10:AA:1277:U:O2'	10:AA:1278:C:OP1	2.22	0.56
13:AD:161:THR:HB	13:AD:163:PRO:HD2	1.86	0.56
10:BA:453:G:H2'	10:BA:454:C:C6	2.40	0.56
34:AY:91:PHE:CD1	34:AY:91:PHE:O	2.57	0.56
35:BZ:47:VAL:CG1	35:BZ:74:ARG:HD2	2.35	0.56
10:BA:1652:A:H2'	34:BY:65:GLN:HE21	1.69	0.56
10:BA:201:A:C2'	10:BA:202:U:H5'	2.34	0.56
27:BR:296:ALA:HB1	27:BR:310:PRO:CG	2.35	0.56
10:AA:1188:A:H2	10:AA:1417:A:H62	1.51	0.56
10:AA:1422:C:H2'	10:AA:1423:U:C6	2.40	0.56
3:A3:12:LEU:HB2	3:A3:17:GLU:HG2	1.87	0.56
16:BG:26:ASP:OD1	16:BG:28:CYS:CB	2.53	0.56
19:AJ:95:VAL:N	19:AJ:96:PRO:HD2	2.20	0.56
10:AA:1623:A:HO2'	10:AA:1624:G:H8	1.51	0.56
22:AM:89:ILE:HG22	22:AM:90:ASN:ND2	2.19	0.56
7:B7:103:GLU:HG2	12:BC:92:GLU:OE1	2.04	0.56
9:A9:90:HIS:NE2	10:AA:1217:G:N2	2.52	0.56
11:BB:127:PHE:CD1	11:BB:128:GLN:N	2.73	0.56
10:AA:533:G:O2'	10:AA:534:A:C5'	2.53	0.56
16:AG:66:ARG:HH22	16:AG:143:ASN:HD21	1.54	0.56
24:BO:143:TYR:HA	24:BO:147:THR:CG2	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:BG:137:ALA:HB1	16:BG:138:PRO:HD2	1.85	0.56
10:BA:264:U:O2'	10:BA:265:C:H5'	2.04	0.56
10:BA:72:G:N1	10:BA:75:C:C4	2.73	0.56
21:BL:112:ALA:CB	21:BL:119:VAL:O	2.53	0.56
10:AA:642:G:H22	10:AA:666:A:H2	1.53	0.56
10:AA:871:U:H2'	10:AA:872:A:O4'	2.05	0.56
20:AK:66:ARG:HG3	20:AK:67:GLU:OE1	2.05	0.56
34:BY:41:LEU:HB3	34:BY:45:PHE:HD1	1.68	0.56
22:BM:93:LYS:CE	22:BM:93:LYS:HA	2.21	0.56
10:AA:303:A:O2'	10:AA:304:U:H5'	2.05	0.56
31:BV:41:VAL:HG11	31:BV:47:ARG:CA	2.34	0.56
25:BP:13:ASN:ND2	32:BW:54:TYR:O	2.38	0.56
14:BE:58:PRO:HB3	14:BE:131:THR:HG23	1.86	0.56
10:AA:869:A:C8	10:AA:869:A:H5'	2.33	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
16:AG:96:HIS:O	16:AG:100:GLY:N	2.38	0.56
10:BA:787:A:N9	17:BH:106:THR:O	2.38	0.56
7:A7:56:GLU:HA	7:A7:56:GLU:OE1	2.06	0.56
8:A8:27:LYS:O	8:A8:29:LYS:HG2	2.05	0.56
34:AY:107:ARG:HG3	34:AY:108:VAL:HG23	1.87	0.56
22:BM:16:ARG:HH11	22:BM:16:ARG:HG3	1.70	0.56
10:BA:971:A:C2'	10:BA:972:G:H5'	2.34	0.56
28:AS:86:ARG:O	28:AS:122:ALA:HB2	2.06	0.56
27:AR:157:GLU:HA	27:AR:160:ASN:OD1	2.04	0.56
16:AG:180:THR:HG22	16:AG:180:THR:O	2.05	0.56
2:B2:159:LEU:O	2:B2:160:GLU:O	2.23	0.56
10:AA:359:U:C2'	10:AA:360:U:H5'	2.35	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
10:AA:537:A:N3	10:AA:537:A:OP1	2.38	0.56
10:AA:1443:A:N7	10:AA:1507:U:H5	2.02	0.56
7:A7:61:TRP:NE1	12:AC:26:SER:HB3	2.20	0.56
25:BP:18:ARG:CZ	25:BP:20:GLN:HE21	2.18	0.56
10:BA:1611:C:H2'	10:BA:1612:C:H5'	1.87	0.56
10:BA:1717:C:H5'	10:BA:1717:C:C6	2.31	0.56
10:AA:939:U:H2'	10:AA:939:U:O2	2.04	0.56
6:A6:52:ILE:CG1	6:A6:62:CYS:HB2	2.35	0.56
10:AA:942:U:O2'	10:AA:943:U:C5'	2.52	0.56
4:B4:165:SER:HA	4:B4:168:ARG:NE	2.16	0.56
16:BG:61:CYS:SG	16:BG:66:ARG:HG2	2.45	0.56
34:BY:185:PRO:HG2	34:BY:186:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:129:ILE:CG2	13:AD:134:ILE:HD12	2.29	0.56
20:BK:36:THR:CG2	20:BK:37:TRP:H	2.18	0.56
10:BA:880:G:O6	20:BK:68:GLU:CD	2.43	0.56
31:AV:17:ILE:HD11	31:AV:54:ALA:O	2.05	0.56
10:AA:1229:U:H2'	10:AA:1230:U:H5'	1.86	0.56
12:BC:35:ALA:HA	12:BC:57:LYS:HD2	1.86	0.56
10:BA:1172:G:H4'	10:BA:1173:G:C5'	2.31	0.56
15:BF:48:MET:CE	15:BF:59:ALA:HB1	2.35	0.56
25:AP:3:ILE:N	25:AP:3:ILE:HD12	2.21	0.56
18:AI:129:LYS:O	18:AI:130:LYS:HG3	2.05	0.56
34:AY:38:GLY:HA3	34:AY:50:PHE:HE1	1.70	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
21:AL:116:ILE:HG23	21:AL:117:PRO:HD2	1.88	0.56
10:AA:157:G:O5'	10:AA:157:G:H8	1.88	0.56
24:AO:117:LEU:HD21	24:AO:121:GLU:OE1	2.06	0.56
20:BK:21:VAL:CG1	20:BK:22:GLY:H	2.09	0.56
10:AA:1157:U:O2'	10:AA:1158:U:OP2	2.20	0.56
11:BB:25:LEU:CD2	11:BB:33:ILE:HD13	2.29	0.56
5:B5:46:ASP:HB2	5:B5:47:PRO:CD	2.27	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
27:BR:49:LYS:HB2	27:BR:77:HIS:O	2.04	0.56
26:BQ:9:TYR:O	26:BQ:10:GLN:CB	2.53	0.56
10:AA:210:A:C3'	10:AA:239:A:H2	2.18	0.56
20:BK:138:ASP:O	20:BK:139:SER:OG	2.22	0.56
31:BV:35:LEU:HD11	31:BV:50:ILE:HB	1.87	0.56
32:AW:193:ARG:NH1	32:AW:246:VAL:HG13	2.20	0.56
32:AW:52:LEU:O	32:AW:53:ASN:CB	2.54	0.56
10:AA:867:U:C5'	10:AA:867:U:C6	2.87	0.56
27:AR:56:LEU:HD11	27:AR:65:PHE:CZ	2.40	0.56
3:B3:81:ILE:HG12	3:B3:94:PHE:CE1	2.40	0.56
12:BC:159:TYR:O	12:BC:160:MET:HB2	2.05	0.56
10:BA:553:A:N3	10:BA:553:A:H2'	2.20	0.56
2:A2:144:SER:O	2:A2:147:VAL:HG23	2.05	0.56
10:BA:1657:G:H2'	10:BA:1658:A:C8	2.40	0.56
8:B8:27:LYS:HG2	10:BA:1509:U:C5	2.40	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
14:AE:107:ASP:C	14:AE:109:ASN:N	2.58	0.56
27:AR:237:LEU:HD23	27:AR:238:LEU:N	2.20	0.56
22:AM:148:CYS:SG	22:AM:149:GLY:N	2.78	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:101:VAL:HA	21:BL:125:CYS:O	2.04	0.56
10:BA:272:U:H3'	10:BA:273:A:H5''	1.86	0.56
27:BR:211:ALA:C	27:BR:212:HIS:HD2	2.08	0.56
13:BD:100:THR:HG22	13:BD:102:HIS:HB3	1.87	0.56
14:BE:225:TYR:CE1	17:BH:70:ASN:ND2	2.74	0.56
10:BA:1697:G:H2'	10:BA:1698:G:C8	2.40	0.56
10:BA:29:G:H4'	21:BL:130:SER:HB2	1.86	0.56
18:BI:57:LEU:CD2	18:BI:107:ILE:HG23	2.36	0.56
5:A5:28:ARG:HG2	5:A5:29:GLN:N	2.21	0.56
23:AN:45:GLN:O	23:AN:49:ILE:HG13	2.05	0.56
21:BL:34:LEU:O	21:BL:35:GLY:C	2.44	0.56
21:BL:56:ILE:HG22	21:BL:57:GLY:N	2.20	0.56
14:AE:112:ILE:HD12	14:AE:192:ALA:HB2	1.88	0.56
10:BA:148:C:H4'	34:BY:108:VAL:HG21	1.87	0.56
19:AJ:18:ARG:HG2	19:AJ:117:THR:HB	1.86	0.56
17:BH:38:LEU:O	17:BH:47:ILE:HD11	2.04	0.56
6:B6:23:ILE:HG23	24:BO:20:PHE:CD2	2.40	0.56
14:AE:141:ARG:HB2	14:AE:223:TYR:CE2	2.41	0.56
13:BD:60:LEU:CD2	13:BD:93:LEU:HD13	2.34	0.56
8:A8:60:VAL:CG2	8:A8:73:LEU:HD21	2.35	0.56
10:AA:1555:A:O2'	10:AA:1556:G:P	2.63	0.56
10:BA:533:G:H8	33:BX:28:ARG:HH11	1.54	0.56
10:AA:761:U:C4	10:AA:764:U:C2	2.93	0.56
10:AA:1608:C:C4	10:AA:1718:A:C2	2.93	0.56
10:BA:1373:G:C4	10:BA:1374:C:C5	2.93	0.56
10:BA:1278:C:C2'	10:BA:1278:C:O2	2.53	0.56
31:AV:3:ARG:HG3	31:AV:3:ARG:O	2.04	0.56
26:BQ:117:LYS:HB3	26:BQ:120:ASP:OD2	2.06	0.56
10:AA:874:U:H3	10:AA:892:G:N2	2.03	0.56
11:AB:8:ASP:O	11:AB:12:ARG:HG2	2.06	0.56
10:AA:1403:U:O2'	10:AA:1404:G:P	2.63	0.56
10:BA:633:U:C4'	10:BA:634:C:H5''	2.32	0.56
12:AC:228:ARG:HG2	27:AR:243:LEU:C	2.26	0.56
27:AR:285:THR:CG2	27:AR:286:GLN:H	2.06	0.56
4:A4:90:VAL:C	4:A4:101:THR:HG23	2.25	0.56
26:AQ:127:CYS:SG	26:AQ:130:ILE:HD11	2.46	0.56
10:AA:492:C:O2'	10:AA:493:U:H5'	2.05	0.56
13:BD:8:THR:HG22	13:BD:9:SER:N	2.13	0.56
4:B4:181:GLU:HG2	4:B4:199:TYR:HE2	1.70	0.56
32:BW:89:MET:CE	32:BW:89:MET:HA	2.31	0.56
10:AA:431:U:O4'	10:AA:457:G:N2	2.37	0.56
32:AW:49:LYS:HE2	32:AW:58:GLY:HA2	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BQ:125:GLY:O	26:BQ:136:PHE:HD1	1.87	0.56
12:BC:205:VAL:HG12	12:BC:206:LYS:H	1.65	0.56
10:BA:897:A:H2'	10:BA:898:U:H6	1.69	0.56
11:AB:2:ALA:HB1	35:AZ:97:GLU:CB	2.35	0.56
10:AA:514:G:O2'	10:AA:515:U:H5'	2.05	0.56
16:AG:26:ASP:OD1	16:AG:28:CYS:CB	2.53	0.56
10:AA:1217:G:O2'	10:AA:1218:C:P	2.63	0.56
22:BM:101:ALA:HB3	22:BM:104:THR:OG1	2.04	0.56
32:BW:215:ALA:C	32:BW:217:GLY:H	2.09	0.56
13:AD:60:LEU:CD2	13:AD:93:LEU:HD13	2.34	0.56
14:AE:145:TRP:H	14:AE:153:HIS:CE1	2.24	0.56
10:AA:500:U:C3'	10:AA:501:U:H5''	2.35	0.56
10:AA:1510:U:C2'	10:AA:1511:A:O5'	2.52	0.56
22:AM:9:SER:C	22:AM:11:PHE:H	2.08	0.56
16:AG:68:ILE:HD13	16:AG:85:ILE:HA	1.88	0.56
10:AA:1339:G:O2'	10:AA:1340:G:H5'	2.06	0.56
10:BA:1455:A:N1	10:BA:1563:C:H1'	2.21	0.56
10:BA:133:A:N6	10:BA:169:G:O2'	2.39	0.56
9:B9:147:UNK:CG	9:B9:148:UNK:N	2.68	0.56
13:AD:131:GLN:O	13:AD:132:ARG:HB2	2.05	0.56
10:BA:843:A:N6	10:BA:942:U:C5	2.73	0.56
14:AE:231:TRP:HZ2	17:AH:45:GLY:O	1.89	0.56
11:AB:188:ASP:O	11:AB:189:GLU:O	2.23	0.56
30:AU:36:ILE:HG23	30:AU:68:ILE:CD1	2.35	0.56
10:BA:1230:U:H2'	10:BA:1231:C:H6	1.70	0.56
3:B3:123:TYR:CE2	3:B3:178:THR:HA	2.41	0.56
3:B3:95:THR:CG2	3:B3:96:ALA:H	2.17	0.56
5:A5:53:ILE:HD13	20:AK:116:LEU:HD13	1.87	0.56
27:BR:111:TYR:CE1	27:BR:112:LYS:HG2	2.41	0.56
27:BR:77:HIS:HD2	27:BR:96:TRP:HB2	1.70	0.56
10:BA:683:A:H2'	10:BA:684:A:O4'	2.05	0.56
2:B2:14:THR:O	2:B2:16:GLY:N	2.38	0.56
4:B4:34:PHE:CE2	4:B4:45:PHE:HB3	2.40	0.56
28:AS:95:VAL:HG21	28:AS:117:ILE:HD11	1.86	0.56
12:BC:118:VAL:O	12:BC:121:ALA:HB3	2.06	0.56
32:BW:52:LEU:O	32:BW:53:ASN:CB	2.54	0.56
4:A4:130:CYS:HB2	4:A4:138:ILE:CD1	2.32	0.56
26:BQ:87:ARG:HD3	26:BQ:104:ARG:CZ	2.35	0.56
11:BB:139:PRO:CB	35:BZ:47:VAL:HG21	2.35	0.56
10:AA:512:C:H3'	10:AA:513:A:H5''	1.84	0.56
2:B2:154:THR:C	2:B2:156:ALA:N	2.58	0.56
2:B2:156:ALA:O	2:B2:158:ALA:N	2.37	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1188:A:H2	10:BA:1417:A:H62	1.52	0.56
11:AB:11:LYS:CE	31:AV:115:PRO:HB2	2.35	0.56
10:AA:586:A:H2'	10:AA:587:U:H5'	1.86	0.56
10:AA:1054:U:H5'	10:AA:1055:G:OP1	2.05	0.56
10:BA:1117:U:O2'	10:BA:1273:U:H4'	2.05	0.56
23:BN:45:GLN:O	23:BN:49:ILE:HG13	2.06	0.56
20:AK:99:ALA:O	20:AK:100:LYS:C	2.43	0.56
28:AS:74:ALA:C	28:AS:76:GLU:H	2.07	0.56
21:BL:51:LEU:HD21	21:BL:76:ARG:HE	1.69	0.56
12:AC:80:PHE:N	12:AC:80:PHE:CD1	2.74	0.56
11:AB:194:MET:CE	31:AV:89:SER:H	2.18	0.56
10:AA:736:A:OP2	32:AW:189:ASN:HB2	2.06	0.56
12:BC:200:ALA:O	12:BC:201:LYS:HG3	2.05	0.56
13:BD:96:VAL:O	13:BD:99:LEU:HG	2.06	0.56
10:AA:1511:A:H4'	10:AA:1512:G:H5'	1.88	0.56
22:AM:61:LEU:HB3	22:AM:65:GLN:CB	2.35	0.56
29:BT:45:VAL:HG13	29:BT:98:ALA:O	2.05	0.56
10:AA:1558:A:C4	10:AA:1583:A:C6	2.94	0.56
10:AA:72:G:N1	10:AA:75:C:C4	2.74	0.56
29:AT:45:VAL:H	29:AT:100:HIS:CG	2.23	0.56
4:A4:128:VAL:O	4:A4:139:ARG:HA	2.05	0.56
10:AA:1487:A:OP2	12:AC:10:LYS:HD3	2.05	0.56
12:AC:9:ASN:HB2	12:AC:12:LYS:CB	2.35	0.56
10:BA:65:C:OP1	34:BY:136:LYS:NZ	2.38	0.56
10:AA:883:A:N6	10:AA:884:A:C2	2.74	0.56
4:A4:73:ALA:CB	20:AK:128:ARG:NH2	2.69	0.56
26:BQ:8:ALA:CB	26:BQ:11:LYS:HE2	2.36	0.56
10:BA:316:G:OP2	26:BQ:132:LYS:HE3	2.06	0.56
10:AA:234:G:C2	10:AA:235:A:C2	2.94	0.56
8:B8:58:SER:CB	8:B8:111:VAL:HG13	2.29	0.56
10:BA:210:A:C3'	10:BA:239:A:H2	2.19	0.56
10:AA:676:C:O2'	10:AA:677:G:OP2	2.18	0.56
5:B5:57:LEU:CD1	5:B5:58:ALA:H	2.18	0.56
10:BA:869:A:H5'	10:BA:869:A:C8	2.34	0.56
2:B2:57:ARG:O	2:B2:59:GLY:N	2.39	0.56
10:BA:231:U:C2'	10:BA:232:G:H5''	2.36	0.56
8:B8:30:TRP:HD1	8:B8:30:TRP:C	2.08	0.56
16:BG:122:ARG:HH21	16:BG:129:VAL:CG2	2.19	0.56
11:AB:96:SER:CB	11:AB:111:LYS:NZ	2.68	0.56
10:BA:1256:C:O2'	10:BA:1257:U:P	2.63	0.56
20:BK:101:GLY:O	20:BK:102:GLY:C	2.44	0.56
11:BB:94:THR:HG21	11:BB:111:LYS:HE2	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B1:54:VAL:HB	16:BG:28:CYS:HA	1.87	0.56
34:BY:139:ASN:HA	34:BY:142:LYS:HE2	1.87	0.56
10:AA:1052:U:H2'	10:AA:1052:U:O2	2.04	0.56
29:AT:148:ALA:O	29:AT:152:ARG:HG2	2.05	0.56
10:AA:1453:C:C1'	18:AI:79:GLN:HE22	2.18	0.56
10:AA:764:U:C2	10:AA:766:G:C2	2.94	0.56
10:BA:1723:A:H2'	10:BA:1724:U:C6	2.41	0.56
10:AA:938:U:H2'	10:AA:939:U:H6	1.70	0.56
10:AA:43:U:O2'	10:AA:44:U:OP1	2.23	0.56
10:BA:1277:U:O2'	10:BA:1278:C:P	2.64	0.56
10:BA:57:U:H3	10:BA:85:G:H1	1.52	0.56
16:BG:163:SER:N	16:BG:166:GLU:OE1	2.31	0.56
9:A9:147:UNK:CG	9:A9:148:UNK:N	2.68	0.56
23:AN:18:LYS:HD3	23:AN:30:ILE:HD12	1.86	0.56
10:BA:623:U:C6	10:BA:623:U:H3'	2.40	0.56
4:A4:34:PHE:CE2	4:A4:45:PHE:HB3	2.41	0.56
30:AU:76:ARG:HG3	30:AU:99:GLY:CA	2.36	0.56
18:AI:49:LYS:HA	18:AI:52:GLU:HG3	1.87	0.56
10:AA:319:A:OP1	26:AQ:55:LYS:HE3	2.06	0.56
32:AW:122:LYS:HG3	32:AW:167:VAL:HG23	1.88	0.56
13:BD:118:LEU:HD11	13:BD:158:PHE:CE1	2.39	0.56
10:BA:866:U:C3'	10:BA:867:U:H5''	2.35	0.56
22:AM:16:ARG:HH11	22:AM:16:ARG:HG3	1.70	0.56
3:B3:73:LEU:HD21	3:B3:94:PHE:HB3	1.87	0.56
12:AC:45:THR:C	12:AC:47:THR:H	2.09	0.56
7:A7:63:PHE:HB2	7:A7:65:TYR:CE1	2.41	0.56
10:AA:371:U:O2	10:AA:371:U:C2'	2.54	0.56
2:B2:121:TYR:HD2	2:B2:129:LEU:HD11	1.68	0.56
10:AA:525:U:H5''	25:AP:63:GLY:N	2.21	0.56
16:BG:120:SER:OG	16:BG:196:ALA:HA	2.06	0.56
8:B8:76:ASN:ND2	8:B8:78:SER:OG	2.38	0.56
28:BS:74:ALA:C	28:BS:76:GLU:H	2.07	0.56
32:AW:215:ALA:C	32:AW:217:GLY:H	2.08	0.56
29:BT:148:ALA:O	29:BT:152:ARG:HG2	2.06	0.56
29:AT:45:VAL:HG13	29:AT:98:ALA:O	2.06	0.56
23:AN:33:TYR:O	23:AN:34:GLU:HB2	2.05	0.56
6:A6:31:MET:CE	6:A6:77:PHE:HD2	2.19	0.56
10:BA:1578:C:H2'	10:BA:1579:G:C8	2.41	0.56
10:BA:937:U:OP2	24:BO:16:SER:HA	2.06	0.56
34:BY:110:ALA:O	34:BY:111:LEU:HD23	2.06	0.56
10:AA:623:U:C6	10:AA:623:U:H3'	2.41	0.56
2:A2:29:LYS:HZ1	10:AA:391:A:H62	1.51	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A5:57:LEU:CD1	5:A5:58:ALA:H	2.19	0.56
30:AU:86:PHE:CD2	30:AU:94:ILE:HD13	2.41	0.56
27:BR:75:HIS:CD2	27:BR:101:ARG:HG3	2.41	0.56
10:AA:570:G:C4'	10:AA:574:A:C2	2.88	0.56
10:BA:683:A:C2	10:BA:718:A:N1	2.73	0.56
10:AA:341:G:O2'	10:AA:342:U:OP2	2.24	0.56
12:BC:77:GLN:CA	12:BC:81:GLY:HA2	2.31	0.56
33:AX:63:HIS:C	33:AX:65:GLY:N	2.56	0.56
10:AA:706:U:H2'	10:AA:707:U:C6	2.41	0.56
2:B2:40:THR:O	2:B2:41:GLN:HG3	2.04	0.56
32:BW:102:ARG:NE	32:BW:238:ILE:HG21	2.21	0.56
17:AH:97:ARG:C	17:AH:98:GLN:HG2	2.26	0.56
33:BX:58:LYS:HD3	33:BX:62:TRP:CH2	2.40	0.56
10:BA:734:U:N3	10:BA:782:A:C2	2.71	0.56
22:AM:14:ILE:CG2	22:AM:22:ILE:HG23	2.35	0.56
11:AB:134:SER:CB	11:AB:152:TYR:CE2	2.89	0.56
7:A7:11:ARG:CG	7:A7:15:GLN:HE21	2.19	0.56
16:AG:122:ARG:HH21	16:AG:129:VAL:HG21	1.70	0.56
10:BA:1204:U:C2'	10:BA:1205:G:H5'	2.36	0.56
21:AL:101:VAL:HG13	21:AL:123:VAL:HG13	1.86	0.56
10:AA:971:A:C2'	10:AA:972:G:H5'	2.35	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
7:A7:50:LYS:HG3	7:A7:51:ASP:N	2.20	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
17:BH:130:TYR:O	17:BH:130:TYR:CD1	2.59	0.56
7:B7:100:ILE:HD13	12:BC:62:ILE:HD11	1.86	0.56
9:A9:123:ILE:CD1	9:A9:136:LYS:HD2	2.36	0.56
26:AQ:107:PRO:CB	26:AQ:133:THR:HB	2.36	0.56
10:AA:1378:U:O2'	10:AA:1379:G:H5'	2.05	0.56
10:AA:1069:U:H4'	10:AA:1070:U:O5'	2.05	0.56
10:AA:1578:C:H2'	10:AA:1579:G:C8	2.41	0.56
34:AY:130:PRO:O	34:AY:131:ARG:C	2.45	0.56
12:AC:8:ILE:HG23	12:AC:12:LYS:HD3	1.88	0.56
10:AA:1027:U:C2'	10:AA:1028:G:H5''	2.36	0.56
5:A5:8:ALA:CB	10:AA:1744:U:H5'	2.36	0.56
10:BA:878:A:O2'	10:BA:894:U:H1'	2.06	0.56
10:AA:1373:G:H2'	10:AA:1374:C:C6	2.40	0.56
10:BA:1567:U:O4	38:BA:2471:HOH:O	2.16	0.56
22:BM:61:LEU:HB3	22:BM:65:GLN:CB	2.35	0.56
20:AK:36:THR:CG2	20:AK:37:TRP:H	2.18	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:A3:131:LEU:H	3:A3:131:LEU:HD23	1.71	0.56
23:AN:38:CYS:SG	23:AN:40:ARG:HG3	2.46	0.56
31:BV:89:SER:C	31:BV:91:ILE:H	2.08	0.56
12:AC:228:ARG:HG2	27:AR:243:LEU:O	2.06	0.56
27:BR:82:LEU:CD2	27:BR:93:SER:HB3	2.35	0.56
32:AW:127:LYS:NZ	32:AW:186:GLN:NE2	2.53	0.56
6:B6:68:LYS:HD3	10:BA:1027:U:OP1	2.05	0.56
10:AA:381:G:H22	10:AA:398:A:N6	2.03	0.56
33:BX:34:ARG:O	33:BX:34:ARG:HG2	2.04	0.56
29:AT:34:ILE:HD11	29:AT:58:TYR:HE1	1.70	0.56
30:BU:96:LYS:HE3	30:BU:98:LYS:HZ3	1.69	0.56
9:B9:85:LYS:CG	9:B9:86:THR:H	2.12	0.56
29:AT:111:LEU:HB2	29:AT:117:ILE:HD12	1.88	0.56
32:AW:207:PHE:CE2	32:AW:223:ARG:HD3	2.41	0.56
20:AK:98:ARG:NH2	20:AK:100:LYS:HA	2.20	0.56
26:BQ:91:HIS:O	26:BQ:99:TYR:HA	2.06	0.56
10:AA:906:U:C2'	10:AA:907:A:OP2	2.54	0.56
11:AB:37:GLY:N	11:AB:41:ILE:O	2.39	0.56
24:AO:43:ALA:HB1	24:AO:82:CYS:SG	2.45	0.56
18:BI:36:SER:HB3	18:BI:37:PRO:HD2	1.88	0.56
10:BA:1081:G:C2	10:BA:1110:A:N1	2.74	0.56
14:BE:220:ALA:C	14:BE:222:THR:H	2.09	0.56
24:BO:143:TYR:HA	24:BO:147:THR:HG21	1.89	0.56
10:AA:630:A:O2'	17:AH:58:SER:HB3	2.05	0.56
16:AG:189:LYS:O	16:AG:189:LYS:HD3	2.06	0.56
10:BA:1246:C:P	10:BA:1399:G:OP1	2.64	0.56
9:A9:155:UNK:O	9:A9:158:UNK:CG	2.42	0.56
11:AB:22:THR:CG2	11:AB:23:ILE:N	2.68	0.56
10:AA:626:U:P	26:AQ:101:LYS:HE3	2.46	0.56
27:AR:285:THR:HG22	27:AR:286:GLN:N	2.16	0.56
27:AR:49:LYS:HB2	27:AR:77:HIS:O	2.05	0.56
4:A4:45:PHE:HZ	20:AK:128:ARG:HH12	1.52	0.56
10:AA:312:C:H4'	10:AA:313:G:C5'	2.36	0.56
2:B2:166:GLN:NE2	2:B2:173:LEU:HD23	2.20	0.56
10:BA:327:G:C2'	10:BA:328:G:C5'	2.81	0.56
26:BQ:10:GLN:O	26:BQ:11:LYS:HD3	2.06	0.56
10:AA:683:A:C2	10:AA:718:A:N1	2.74	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
27:BR:131:ARG:HA	27:BR:147:ILE:CG2	2.32	0.56
12:BC:170:TYR:CG	12:BC:205:VAL:HG21	2.41	0.56
10:BA:734:U:O2	10:BA:782:A:H2	1.89	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:868:U:H2'	10:BA:869:A:H5'	1.88	0.56
34:AY:77:LEU:O	34:AY:92:ARG:HA	2.05	0.56
34:AY:76:LEU:CD2	34:AY:94:ARG:HD2	2.32	0.56
10:BA:527:A:H2'	10:BA:528:G:C8	2.40	0.56
15:AF:17:THR:CG2	15:AF:39:PRO:HD3	2.36	0.56
10:BA:1651:G:H1'	10:BA:1674:A:N6	2.21	0.56
2:B2:37:LYS:HE2	2:B2:101:THR:CG2	2.36	0.56
2:B2:141:LYS:HZ2	2:B2:143:LYS:HE2	1.70	0.56
10:AA:55:U:H4'	10:AA:56:G:O5'	2.06	0.56
2:A2:154:THR:C	2:A2:156:ALA:N	2.59	0.56
12:BC:84:ASP:O	12:BC:86:GLN:N	2.39	0.56
10:BA:1728:U:H3	10:BA:1739:G:H1	1.52	0.56
10:AA:28:U:O2'	10:AA:29:G:H5'	2.06	0.56
28:BS:49:ARG:HH22	28:BS:87:SER:HB2	1.71	0.56
35:AZ:91:GLY:O	35:AZ:92:LEU:HG	2.05	0.56
19:AJ:72:GLU:OE1	19:AJ:73:GLY:N	2.38	0.56
27:BR:251:GLU:HG3	27:BR:251:GLU:O	2.06	0.56
5:B5:82:HIS:CD2	10:BA:1722:U:H3	2.23	0.56
14:BE:206:ARG:O	14:BE:208:ARG:N	2.39	0.55
10:AA:1583:A:O2'	10:AA:1584:U:H5'	2.06	0.55
10:AA:133:A:H61	10:AA:169:G:H2'	1.71	0.55
10:BA:1753:A:C8	10:BA:1753:A:OP1	2.56	0.55
10:AA:45:A:O2'	10:AA:46:A:O5'	2.24	0.55
13:AD:8:THR:HG22	13:AD:9:SER:N	2.12	0.55
10:BA:1401:U:H5'	10:BA:1402:C:OP2	2.06	0.55
34:BY:38:GLY:HA3	34:BY:50:PHE:HE1	1.69	0.55
10:AA:878:A:HO2'	10:AA:894:U:HO2'	1.52	0.55
3:A3:133:PRO:HD2	3:A3:162:PHE:HE2	1.70	0.55
1:A1:12:MET:CB	1:A1:28:ARG:HG2	2.27	0.55
30:BU:36:ILE:HG23	30:BU:68:ILE:CD1	2.36	0.55
16:BG:37:THR:CG2	16:BG:38:THR:N	2.69	0.55
4:A4:37:PRO:HD2	4:A4:101:THR:O	2.06	0.55
2:A2:191:LEU:HB3	2:A2:196:LEU:HD13	1.88	0.55
10:BA:1137:A:O2'	10:BA:1138:A:H5'	2.05	0.55
10:AA:453:G:H5''	32:AW:26:ILE:HD12	1.87	0.55
4:B4:182:ALA:HB2	4:B4:190:PHE:HE2	1.71	0.55
25:BP:55:VAL:HG23	25:BP:71:ALA:HB2	1.88	0.55
25:AP:55:VAL:HG23	25:AP:71:ALA:HB2	1.86	0.55
27:AR:275:ASP:CB	27:AR:311:GLN:HG2	2.35	0.55
10:BA:271:U:C4'	10:BA:272:U:H5'	2.35	0.55
11:AB:96:SER:HB3	11:AB:111:LYS:HZ1	1.71	0.55
32:BW:123:TYR:CD2	32:BW:163:LYS:HE2	2.41	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AI:112:MET:CE	18:AI:116:ARG:HA	2.35	0.55
10:AA:1099:G:O2'	10:AA:1100:U:H5'	2.06	0.55
21:AL:34:LEU:O	21:AL:35:GLY:C	2.45	0.55
3:B3:52:LYS:HD2	3:B3:53:THR:H	1.71	0.55
3:A3:14:LYS:O	3:A3:18:GLN:HG3	2.06	0.55
10:BA:1422:C:H2'	10:BA:1423:U:H6	1.71	0.55
32:BW:210:CYS:CB	32:BW:227:ILE:HD11	2.36	0.55
3:A3:43:THR:HG21	3:A3:97:GLN:CG	2.36	0.55
19:AJ:108:PRO:O	19:AJ:110:VAL:HG23	2.06	0.55
10:AA:1704:C:O2'	10:AA:1705:A:H5'	2.06	0.55
27:AR:251:GLU:HG3	27:AR:251:GLU:O	2.05	0.55
21:AL:81:LYS:O	21:AL:81:LYS:HD2	2.06	0.55
14:AE:186:LYS:O	14:AE:190:GLN:HG3	2.05	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:AA:537:A:O2'	10:AA:538:A:H5'	2.06	0.55
10:AA:1376:A:H2'	10:AA:1377:A:H8	1.70	0.55
10:AA:47:C:H2'	10:AA:48:C:H6	1.71	0.55
34:BY:184:THR:O	34:BY:188:ILE:HG13	2.07	0.55
10:AA:1373:G:C4	10:AA:1374:C:C5	2.94	0.55
24:BO:15:GLY:O	24:BO:16:SER:CB	2.53	0.55
10:AA:1230:U:H2'	10:AA:1231:C:C6	2.41	0.55
10:AA:1523:U:H5''	28:AS:48:ARG:HH12	1.71	0.55
10:AA:1002:U:C2'	10:AA:1003:A:H5'	2.36	0.55
10:BA:625:G:H2'	10:BA:626:U:C6	2.41	0.55
27:AR:82:LEU:CD2	27:AR:93:SER:HB3	2.36	0.55
10:BA:717:G:H2'	10:BA:718:A:O4'	2.06	0.55
2:B2:93:ALA:HA	26:BQ:9:TYR:HD2	1.71	0.55
22:AM:94:ASP:OD2	28:AS:16:LYS:HA	2.06	0.55
17:AH:17:ALA:HA	17:AH:22:LYS:CD	2.36	0.55
2:A2:194:LYS:HD3	26:AQ:12:GLN:NE2	2.20	0.55
22:AM:6:GLU:O	22:AM:10:ASP:HB3	2.07	0.55
2:A2:39:THR:HB	2:A2:69:CYS:HB3	1.87	0.55
31:BV:42:PRO:HG2	31:BV:43:SER:H	1.71	0.55
10:BA:90:U:P	32:BW:3:ARG:HD2	2.45	0.55
31:BV:98:ILE:HG23	31:BV:102:THR:CG2	2.37	0.55
34:AY:70:ARG:NH2	34:AY:104:PRO:HD3	2.17	0.55
10:AA:513:A:C8	10:AA:513:A:H5'	2.39	0.55
10:AA:1535:A:OP1	29:AT:87:LYS:NZ	2.33	0.55
8:A8:27:LYS:HG2	10:AA:1509:U:H5	1.68	0.55
10:AA:147:G:H1	10:AA:155:U:H3	1.54	0.55
32:AW:204:GLN:C	32:AW:206:SER:N	2.57	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BR:99:THR:C	27:BR:100:LEU:HD12	2.26	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
22:AM:30:ILE:HD11	38:AM:2001:HOH:O	2.05	0.55
9:A9:77:LYS:HG3	9:A9:78:LYS:N	2.20	0.55
20:AK:106:LYS:HZ3	20:AK:135:ILE:HG23	1.71	0.55
10:BA:1390:G:C5'	23:BN:55:ARG:HD3	2.37	0.55
10:BA:1623:A:HO2'	10:BA:1624:G:H8	1.53	0.55
10:AA:3:C:N4	13:AD:16:ARG:HB2	2.21	0.55
34:AY:176:CYS:SG	34:AY:177:PRO:HD2	2.47	0.55
12:AC:10:LYS:HA	12:AC:13:LYS:HG2	1.88	0.55
10:BA:764:U:C2	10:BA:766:G:C2	2.95	0.55
10:BA:1720:G:H4'	10:BA:1721:G:O5'	2.06	0.55
10:AA:44:U:C5	10:AA:428:A:N6	2.74	0.55
10:BA:883:A:N6	10:BA:884:A:C2	2.74	0.55
10:BA:466:A:OP1	13:BD:145:SER:HB2	2.06	0.55
11:BB:5:ARG:CG	11:BB:187:LYS:HZ1	2.18	0.55
4:A4:73:ALA:CB	20:AK:128:ARG:HH22	2.20	0.55
10:BA:492:C:O2'	10:BA:493:U:H5'	2.05	0.55
10:AA:231:U:C3'	10:AA:232:G:H5''	2.36	0.55
2:A2:5:ARG:NH2	10:AA:323:U:O2'	2.39	0.55
10:AA:318:U:H5'	10:AA:319:A:OP2	2.07	0.55
26:AQ:18:ASN:O	26:AQ:21:LYS:N	2.36	0.55
2:B2:89:VAL:HA	2:B2:110:VAL:HG13	1.89	0.55
10:AA:454:C:C2'	10:AA:455:C:C5'	2.85	0.55
17:AH:38:LEU:HD22	17:AH:47:ILE:CD1	2.37	0.55
13:BD:116:LEU:O	13:BD:118:LEU:N	2.39	0.55
34:AY:141:ILE:HG21	34:AY:156:ILE:HG23	1.88	0.55
10:BA:231:U:C3'	10:BA:232:G:H5''	2.36	0.55
2:B2:143:LYS:HG3	2:B2:144:SER:N	2.21	0.55
2:A2:37:LYS:HE2	2:A2:101:THR:CG2	2.35	0.55
26:BQ:39:LEU:HA	32:BW:204:GLN:HE21	1.68	0.55
10:BA:447:C:O2	10:BA:447:C:C2'	2.54	0.55
24:AO:74:LEU:O	24:AO:74:LEU:HD13	2.07	0.55
10:AA:1697:G:H2'	10:AA:1698:G:C8	2.40	0.55
10:AA:1679:A:H2'	10:AA:1680:A:C8	2.41	0.55
32:BW:117:SER:O	32:BW:119:GLU:N	2.39	0.55
10:AA:1390:G:H5'	23:AN:55:ARG:HD3	1.87	0.55
30:BU:11:VAL:O	30:BU:15:VAL:HG23	2.06	0.55
11:BB:37:GLY:N	11:BB:41:ILE:O	2.40	0.55
12:BC:80:PHE:CD1	12:BC:80:PHE:N	2.74	0.55
34:AY:74:ARG:HG3	34:AY:96:SER:HB3	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B5:24:THR:HG21	5:B5:73:LEU:CD1	2.35	0.55
10:BA:1080:G:H4'	10:BA:1081:G:O5'	2.07	0.55
10:BA:546:G:C4	10:BA:547:C:C5	2.94	0.55
10:AA:57:U:H3	10:AA:85:G:H1	1.54	0.55
25:AP:10:ILE:HG12	25:AP:21:LEU:HB3	1.88	0.55
5:B5:38:ARG:CZ	10:BA:1751:U:C5	2.89	0.55
16:BG:68:ILE:HG23	16:BG:84:CYS:HB3	1.88	0.55
16:AG:200:ARG:OXT	16:AG:200:ARG:HG3	2.07	0.55
30:AU:89:ASN:ND2	30:AU:89:ASN:C	2.59	0.55
5:A5:77:ILE:N	5:A5:77:ILE:HD12	2.21	0.55
27:BR:274:THR:HG23	27:BR:276:GLN:N	2.21	0.55
10:BA:1277:U:O2'	10:BA:1278:C:OP1	2.23	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
6:B6:52:ILE:CG1	6:B6:62:CYS:HB2	2.35	0.55
10:BA:837:A:O2'	10:BA:838:U:P	2.63	0.55
24:AO:143:TYR:HA	24:AO:147:THR:HG21	1.88	0.55
24:AO:143:TYR:HA	24:AO:147:THR:HB	1.87	0.55
26:AQ:117:LYS:HB3	26:AQ:120:ASP:OD2	2.06	0.55
10:BA:1178:U:O4	10:BA:1426:G:O6	2.25	0.55
10:BA:1511:A:H4'	10:BA:1512:G:H5'	1.87	0.55
10:BA:1510:U:C2'	10:BA:1511:A:O5'	2.54	0.55
10:AA:1178:U:H4'	23:AN:26:ARG:HH11	1.71	0.55
22:BM:93:LYS:O	28:BS:16:LYS:HB2	2.06	0.55
10:BA:955:A:N6	10:BA:1003:A:C5	2.74	0.55
27:AR:94:SER:CB	27:AR:124:VAL:HG23	2.27	0.55
27:BR:197:LYS:HA	27:BR:207:TYR:O	2.05	0.55
10:AA:544:G:C6	10:AA:576:U:C5	2.94	0.55
2:B2:196:LEU:HG	2:B2:200:ILE:HD11	1.87	0.55
12:AC:77:GLN:CA	12:AC:81:GLY:HA2	2.31	0.55
17:AH:125:ILE:CG2	17:AH:126:LEU:N	2.69	0.55
14:AE:42:ILE:O	14:AE:44:SER:N	2.39	0.55
32:BW:69:GLU:O	32:BW:70:GLN:HB2	2.06	0.55
10:BA:865:A:H2'	10:BA:866:U:H6	1.71	0.55
10:BA:1488:A:O2'	10:BA:1489:U:P	2.65	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
16:AG:153:CYS:O	16:AG:167:THR:HG21	2.05	0.55
3:B3:169:ALA:O	3:B3:173:ILE:HG13	2.06	0.55
30:BU:108:TYR:HE2	30:BU:120:ILE:HD13	1.70	0.55
5:B5:10:ARG:HH11	5:B5:12:GLN:NE2	2.04	0.55
29:AT:69:TYR:HA	29:AT:132:ILE:CG2	2.37	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:215:ILE:HD12	31:BV:15:SER:HB2	1.88	0.55
24:AO:13:ILE:HD12	24:AO:13:ILE:N	2.22	0.55
6:B6:23:ILE:HG23	24:BO:20:PHE:HD2	1.71	0.55
21:AL:132:LEU:HD21	21:AL:136:LYS:HE3	1.87	0.55
27:BR:24:VAL:O	27:BR:313:THR:HB	2.07	0.55
22:BM:44:TYR:CD2	29:BT:49:LEU:HD11	2.41	0.55
25:BP:53:VAL:HG22	25:BP:73:VAL:HG22	1.88	0.55
10:BA:1603:A:N7	10:BA:1717:C:C1'	2.69	0.55
10:BA:1746:G:C2'	10:BA:1747:A:H5''	2.37	0.55
10:AA:1324:U:H2'	10:AA:1325:G:C8	2.42	0.55
1:A1:42:ILE:N	1:A1:63:GLU:HG3	2.17	0.55
10:BA:83:C:O2'	10:BA:163:A:N6	2.39	0.55
12:BC:35:ALA:HB1	12:BC:57:LYS:HB2	1.89	0.55
10:BA:1711:U:O2'	10:BA:1712:C:H5'	2.06	0.55
10:BA:1536:U:H2'	10:BA:1537:C:H6	1.70	0.55
11:AB:12:ARG:O	11:AB:169:MET:HE1	2.06	0.55
14:AE:91:THR:O	14:AE:92:GLN:C	2.45	0.55
7:B7:11:ARG:CG	7:B7:15:GLN:HE21	2.20	0.55
9:B9:126:ALA:N	9:B9:133:TYR:O	2.32	0.55
2:A2:22:ARG:NH1	2:A2:25:ARG:NH1	2.49	0.55
20:AK:77:ALA:O	20:AK:81:VAL:HG23	2.06	0.55
10:AA:719:G:N2	10:AA:720:U:C2	2.75	0.55
10:AA:295:U:H1'	26:AQ:68:LYS:HD3	1.89	0.55
4:B4:136:TYR:CD2	4:B4:187:ILE:HG12	2.41	0.55
12:BC:125:ILE:N	12:BC:125:ILE:HD12	2.16	0.55
12:AC:119:ARG:NH1	14:AE:123:GLN:H	2.03	0.55
14:BE:61:ILE:HD11	14:BE:134:LYS:O	2.06	0.55
24:BO:22:ARG:HA	24:BO:67:PHE:HE2	1.65	0.55
10:BA:782:A:H2'	10:BA:783:U:O4'	2.07	0.55
24:AO:29:HIS:O	24:AO:30:MET:HG3	2.06	0.55
7:B7:50:LYS:HG3	7:B7:51:ASP:N	2.21	0.55
13:AD:69:ARG:HH21	13:AD:92:LYS:NZ	2.05	0.55
1:A1:46:LYS:NZ	16:AG:140:ARG:HH21	2.05	0.55
10:BA:1422:C:H2'	10:BA:1423:U:C6	2.42	0.55
32:BW:249:THR:HG22	32:BW:251:LEU:H	1.70	0.55
28:BS:31:GLU:HG3	28:BS:32:LYS:HG2	1.88	0.55
34:BY:74:ARG:HG3	34:BY:96:SER:HB3	1.88	0.55
28:BS:70:GLU:HG3	28:BS:71:LYS:H	1.71	0.55
30:BU:4:GLN:O	30:BU:5:ASN:C	2.44	0.55
10:AA:174:A:O5'	10:AA:174:A:H8	1.89	0.55
10:BA:1110:A:O2'	10:BA:1111:A:O4'	2.24	0.55
10:BA:3:C:N4	13:BD:16:ARG:HB2	2.22	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
5:B5:8:ALA:CB	10:BA:1744:U:H5'	2.36	0.55
10:BA:1555:A:O2'	10:BA:1556:G:P	2.64	0.55
16:AG:189:LYS:O	16:AG:193:GLU:HG3	2.06	0.55
20:BK:66:ARG:HG3	20:BK:67:GLU:OE1	2.07	0.55
10:AA:874:U:O2	10:AA:874:U:H2'	2.05	0.55
10:AA:633:U:C4'	10:AA:634:C:H5''	2.34	0.55
9:B9:133:TYR:CE1	9:B9:138:HIS:HA	2.41	0.55
10:BA:315:U:O2'	26:BQ:79:MET:HE3	2.07	0.55
34:AY:167:THR:HG22	34:AY:168:ALA:N	2.21	0.55
16:BG:13:LEU:HB2	16:BG:19:TYR:CE1	2.42	0.55
2:A2:42:SER:HA	2:A2:45:ILE:CG1	2.33	0.55
2:B2:42:SER:HA	2:B2:45:ILE:CG1	2.34	0.55
10:AA:436:C:H2'	38:AA:2218:HOH:O	2.05	0.55
14:BE:57:GLU:HB2	14:BE:60:ILE:CG1	2.33	0.55
10:BA:537:A:O2'	10:BA:538:A:H5'	2.06	0.55
10:AA:734:U:O2	10:AA:782:A:H2	1.88	0.55
10:AA:1661:G:N3	10:AA:1661:G:C3'	2.69	0.55
10:BA:512:C:C3'	10:BA:513:A:C5'	2.83	0.55
7:A7:14:LYS:HG2	7:A7:80:LEU:HD11	1.89	0.55
19:AJ:19:VAL:HB	19:AJ:91:LEU:HB2	1.89	0.55
3:A3:152:ARG:HG3	3:A3:154:GLN:HE22	1.70	0.55
29:BT:111:LEU:CD2	29:BT:116:ILE:HD12	2.36	0.55
10:AA:1421:G:H4'	23:AN:6:TRP:HB2	1.89	0.55
25:AP:147:VAL:O	25:AP:148:ALA:CB	2.55	0.55
5:B5:26:CYS:SG	5:B5:28:ARG:HB2	2.47	0.55
3:B3:43:THR:HG21	3:B3:97:GLN:CG	2.37	0.55
28:AS:31:GLU:HG3	28:AS:32:LYS:HG2	1.88	0.55
10:BA:525:U:H5''	25:BP:63:GLY:CA	2.36	0.55
10:BA:851:U:O4	10:BA:932:G:O6	2.23	0.55
32:AW:213:LYS:HG2	32:AW:214:ASP:H	1.71	0.55
10:BA:906:U:OP2	10:BA:906:U:H6	1.89	0.55
10:AA:1501:C:OP2	16:AG:86:LYS:NZ	2.39	0.55
10:AA:1390:G:C5'	23:AN:55:ARG:HD3	2.37	0.55
9:B9:77:LYS:HG3	9:B9:78:LYS:N	2.22	0.55
30:BU:15:VAL:HG22	30:BU:112:ILE:HD13	1.88	0.55
17:BH:110:ILE:O	17:BH:111:LEU:HD23	2.06	0.55
2:B2:55:ARG:HD3	2:B2:55:ARG:C	2.27	0.55
10:BA:226:A:C5	10:BA:227:G:H1'	2.42	0.55
7:A7:25:LYS:HE3	7:A7:27:ASP:HB3	1.88	0.55
21:BL:132:LEU:HD21	21:BL:136:LYS:HE3	1.89	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BT:14:ALA:O	29:BT:17:ASP:HB3	2.06	0.55
10:AA:1380:G:N2	10:AA:1383:G:OP2	2.39	0.55
17:AH:76:SER:HB2	17:AH:77:PRO:CD	2.32	0.55
10:BA:1716:A:N6	10:BA:1717:C:N4	2.55	0.55
6:A6:68:LYS:HD3	10:AA:1027:U:OP1	2.06	0.55
10:AA:424:A:H2'	10:AA:425:A:H8	1.72	0.55
20:AK:118:ALA:HA	20:AK:121:ARG:HG2	1.88	0.55
10:AA:1721:G:H21	20:AK:151:LEU:HD12	1.71	0.55
4:B4:175:ASN:HD22	4:B4:175:ASN:N	2.05	0.55
10:AA:749:G:C5	10:AA:754:A:C2	2.95	0.55
8:B8:38:LYS:HE2	10:BA:1507:U:H5'	1.88	0.55
14:AE:228:PRO:CD	17:AH:99:PHE:CE2	2.90	0.55
14:BE:228:PRO:HD3	17:BH:99:PHE:CE2	2.41	0.55
16:AG:37:THR:CG2	16:AG:38:THR:N	2.69	0.55
27:AR:111:TYR:CE1	27:AR:112:LYS:HG2	2.41	0.55
3:B3:95:THR:HG22	3:B3:96:ALA:O	2.07	0.55
27:BR:134:LEU:HG	27:BR:142:ILE:CG2	2.36	0.55
10:BA:574:A:H3'	10:BA:575:U:C5'	2.37	0.55
17:AH:25:VAL:CG2	17:AH:65:LEU:HD11	2.36	0.55
10:AA:1293:A:C4	11:AB:101:PRO:HB2	2.41	0.55
2:B2:25:ARG:NH2	10:BA:376:A:OP1	2.38	0.55
16:AG:13:LEU:HB2	16:AG:19:TYR:CE1	2.41	0.55
10:AA:39:A:C2	10:AA:461:C:C6	2.95	0.55
10:BA:1027:U:C2	10:BA:1042:G:N2	2.74	0.55
10:BA:867:U:C5'	10:BA:867:U:C6	2.88	0.55
10:AA:734:U:N3	10:AA:735:G:N7	2.55	0.55
10:AA:786:A:O2'	10:AA:787:A:OP1	2.20	0.55
12:BC:40:ILE:CG2	12:BC:42:VAL:HG23	2.34	0.55
28:BS:91:ILE:O	28:BS:94:LEU:HB2	2.06	0.55
25:BP:131:THR:HG22	25:BP:132:TRP:N	2.21	0.55
18:AI:138:SER:C	18:AI:139:LYS:HG3	2.27	0.55
10:BA:586:A:H2'	10:BA:587:U:H5'	1.87	0.55
10:AA:1133:C:O2'	10:AA:1134:C:H5'	2.07	0.55
12:BC:145:LEU:HD11	12:BC:153:MET:HB2	1.87	0.55
10:AA:553:A:H2'	10:AA:553:A:N3	2.21	0.55
19:BJ:18:ARG:O	19:BJ:18:ARG:HG3	2.07	0.55
31:AV:89:SER:C	31:AV:91:ILE:H	2.09	0.55
12:BC:28:PHE:CE1	12:BC:53:ILE:HD11	2.42	0.55
10:BA:653:U:N3	10:BA:656:G:N2	2.54	0.55
19:AJ:23:LEU:HD22	19:AJ:112:ILE:HG12	1.88	0.55
30:AU:106:ARG:C	30:AU:107:LYS:HG3	2.27	0.55
5:B5:45:VAL:HG21	5:B5:53:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:213:VAL:HG12	12:AC:213:VAL:O	2.06	0.55
18:BI:145:ARG:HD2	18:BI:145:ARG:N	2.22	0.55
3:B3:5:LYS:O	3:B3:6:PHE:CD1	2.59	0.55
2:B2:117:PHE:CE2	2:B2:190:ILE:HD11	2.42	0.55
29:AT:14:ALA:O	29:AT:17:ASP:HB3	2.06	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
13:BD:93:LEU:HD23	13:BD:96:VAL:CG2	2.36	0.55
10:AA:1453:C:O2'	18:AI:79:GLN:NE2	2.39	0.55
10:AA:766:G:HO2'	10:AA:767:C:H5'	1.69	0.55
24:BO:143:TYR:HA	24:BO:147:THR:HB	1.88	0.55
10:AA:851:U:O4	10:AA:932:G:O6	2.24	0.55
1:A1:58:MET:HB3	16:AG:197:LYS:NZ	2.22	0.55
31:BV:58:MET:HE2	31:BV:58:MET:HA	1.88	0.55
13:AD:128:LEU:O	13:AD:130:ARG:N	2.40	0.55
10:BA:1249:G:H3'	10:BA:1250:G:C8	2.41	0.55
10:BA:1425:G:O3'	28:BS:127:THR:CG2	2.55	0.55
11:AB:5:ARG:NH2	11:AB:12:ARG:HH22	2.03	0.55
27:AR:161:HIS:HB3	27:AR:197:LYS:HE2	1.89	0.55
5:A5:66:ILE:HG22	5:A5:67:PRO:O	2.07	0.55
2:B2:106:LYS:O	2:B2:176:ILE:HB	2.06	0.55
28:AS:88:MET:SD	28:AS:89:ILE:N	2.79	0.55
26:AQ:5:ILE:O	26:AQ:6:GLN:C	2.45	0.55
27:BR:241:ASP:OD2	27:BR:243:LEU:HB2	2.07	0.55
17:AH:38:LEU:O	17:AH:47:ILE:HD11	2.06	0.55
34:BY:91:PHE:CD1	34:BY:91:PHE:O	2.60	0.55
24:AO:31:THR:O	24:AO:32:PRO:C	2.44	0.55
8:A8:26:GLY:HA3	8:A8:29:LYS:HD2	1.87	0.55
18:BI:32:LYS:HE3	18:BI:35:GLY:HA2	1.89	0.55
16:AG:24:ILE:HD12	16:AG:30:GLN:HA	1.87	0.55
16:BG:50:ARG:HG2	16:BG:53:VAL:HG21	1.89	0.55
24:BO:13:ILE:HD12	24:BO:13:ILE:N	2.22	0.55
10:BA:1398:A:OP2	10:BA:1398:A:H4'	2.06	0.55
35:BZ:61:THR:O	35:BZ:63:SER:N	2.35	0.55
12:AC:184:ILE:CG2	12:AC:185:MET:N	2.70	0.55
21:AL:51:LEU:HD21	21:AL:76:ARG:HE	1.70	0.55
16:AG:120:SER:OG	16:AG:196:ALA:HA	2.06	0.55
10:AA:437:A:N3	10:AA:437:A:H2'	2.22	0.55
14:AE:135:LEU:HD23	14:AE:135:LEU:N	2.20	0.55
18:AI:145:ARG:N	18:AI:145:ARG:HD2	2.22	0.55
35:BZ:20:LYS:O	35:BZ:22:GLU:HG3	2.07	0.55
29:BT:146:GLN:O	29:BT:150:LYS:HG3	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:99:PHE:O	14:AE:118:VAL:HA	2.07	0.55
10:BA:221:A:N6	10:BA:814:A:N6	2.55	0.55
10:AA:653:U:N3	10:AA:656:G:N2	2.54	0.55
10:BA:607:G:OP2	10:BA:1071:U:H2'	2.07	0.55
14:BE:153:HIS:HB2	14:BE:196:ASP:OD2	2.07	0.55
29:BT:83:PHE:CZ	29:BT:85:SER:HB2	2.42	0.55
10:AA:1453:C:C1'	18:AI:79:GLN:NE2	2.70	0.55
16:AG:34:ALA:H	16:AG:63:ILE:CG1	2.20	0.55
10:AA:63:U:C5'	10:AA:64:U:OP1	2.55	0.55
10:AA:762:U:H2'	10:AA:763:U:OP2	2.07	0.55
12:AC:10:LYS:NZ	19:AJ:86:LYS:HZ1	2.04	0.55
10:BA:1752:U:O3'	10:BA:1753:A:C8	2.60	0.55
16:BG:32:TYR:O	16:BG:33:ILE:HD12	2.07	0.55
5:A5:9:GLY:HA3	10:AA:1748:U:C4	2.41	0.55
10:AA:1746:G:C2'	10:AA:1747:A:H5''	2.37	0.55
10:AA:1197:A:H2'	10:AA:1198:A:H8	1.71	0.55
10:BA:1707:G:H2'	10:BA:1708:A:C8	2.41	0.55
3:A3:178:THR:HG22	3:A3:180:ARG:HG3	1.89	0.55
11:BB:180:ILE:HG22	35:BZ:58:GLY:O	2.07	0.55
10:AA:833:A:C2'	10:AA:834:A:OP1	2.53	0.55
10:BA:674:U:H5'	10:BA:675:A:OP2	2.06	0.55
1:A1:19:GLY:O	1:A1:22:GLY:N	2.40	0.55
10:AA:955:A:C2'	10:AA:956:A:C5'	2.76	0.55
10:AA:625:G:H2'	10:AA:626:U:C6	2.41	0.55
10:AA:494:A:C2	33:AX:48:HIS:HB3	2.42	0.55
10:BA:312:C:H4'	10:BA:313:G:C5'	2.37	0.55
10:AA:685:A:C2	10:AA:716:G:O6	2.60	0.55
4:A4:181:GLU:HG2	4:A4:199:TYR:HE2	1.68	0.55
31:AV:35:LEU:HD11	31:AV:50:ILE:HB	1.88	0.55
32:BW:255:LYS:O	32:BW:259:SER:HA	2.07	0.55
27:BR:237:LEU:HD23	27:BR:238:LEU:N	2.21	0.55
11:BB:2:ALA:HB1	35:BZ:97:GLU:HB2	1.89	0.55
2:B2:26:ALA:HA	10:BA:391:A:C2	2.42	0.55
25:AP:98:LYS:H	25:AP:98:LYS:HD3	1.70	0.55
17:BH:56:HIS:CE1	24:BO:22:ARG:HE	2.25	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
9:B9:128:HIS:HE1	10:BA:1222:U:H1'	1.71	0.55
27:AR:91:ALA:HB2	27:AR:105:LEU:HD11	1.87	0.55
31:AV:107:LYS:HG2	31:AV:112:GLN:CB	2.37	0.55
10:BA:1495:U:O2'	10:BA:1496:A:O5'	2.21	0.55
27:AR:238:LEU:HG	27:AR:248:PRO:HB3	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:82:TYR:C	12:BC:84:ASP:H	2.10	0.55
10:BA:123:A:H3'	10:BA:124:U:C6	2.42	0.55
32:BW:195:GLY:HA3	32:BW:213:LYS:O	2.07	0.55
12:AC:215:ILE:HA	31:AV:39:ALA:HB2	1.89	0.55
28:AS:60:LYS:HZ3	28:AS:64:LYS:CE	2.20	0.55
22:BM:12:LYS:HB2	22:BM:15:HIS:NE2	2.22	0.55
10:BA:207:U:H2'	10:BA:208:A:C8	2.42	0.55
10:AA:226:A:C5	10:AA:227:G:H1'	2.41	0.55
24:BO:116:ARG:HG3	24:BO:116:ARG:HH11	1.72	0.55
10:AA:1079:G:H2'	10:AA:1080:G:C8	2.42	0.55
14:BE:184:ILE:HG23	14:BE:212:LEU:HD21	1.89	0.55
10:AA:1511:A:OP2	10:AA:1511:A:C8	2.60	0.55
10:AA:133:A:N6	10:AA:169:G:O2'	2.40	0.55
25:AP:19:ARG:NE	25:AP:73:VAL:HG11	2.20	0.55
10:AA:1608:C:N4	10:AA:1718:A:H2	2.00	0.55
10:AA:1752:U:O3'	10:AA:1753:A:C8	2.60	0.55
10:BA:134:C:O2'	10:BA:135:A:OP2	2.20	0.55
13:AD:110:GLN:CD	13:AD:126:ARG:HG2	2.27	0.55
31:AV:26:ASN:HD21	31:AV:62:GLN:NE2	2.05	0.55
10:AA:1229:U:O2	10:AA:1229:U:C2'	2.54	0.55
10:BA:1249:G:H3'	10:BA:1250:G:H8	1.72	0.55
16:BG:189:LYS:O	16:BG:193:GLU:HG3	2.06	0.55
15:BF:39:PRO:HG2	15:BF:42:PHE:HE1	1.72	0.55
12:BC:8:ILE:HG23	12:BC:12:LYS:HD3	1.88	0.55
34:AY:110:ALA:O	34:AY:111:LEU:HD23	2.06	0.55
11:AB:5:ARG:CZ	11:AB:176:ARG:HH21	2.20	0.55
27:AR:197:LYS:HA	27:AR:207:TYR:O	2.07	0.55
32:BW:188:GLY:N	32:BW:191:ILE:CG2	2.67	0.55
32:BW:193:ARG:NH1	32:BW:246:VAL:HG13	2.21	0.55
27:BR:252:PHE:HB3	27:BR:281:PHE:HE2	1.72	0.55
27:BR:56:LEU:HD11	27:BR:65:PHE:CZ	2.42	0.55
28:BS:101:VAL:CG2	28:BS:121:LEU:HD11	2.34	0.55
10:BA:1358:A:O2'	10:BA:1359:C:OP1	2.24	0.55
10:BA:536:C:O2'	10:BA:537:A:OP2	2.21	0.55
10:AA:1064:A:O2'	10:AA:1065:A:C5'	2.55	0.55
10:AA:1654:U:H2'	10:AA:1655:G:C8	2.42	0.55
34:AY:64:LYS:O	34:AY:65:GLN:C	2.45	0.55
10:AA:1299:C:O2'	12:AC:162:CYS:HB2	2.06	0.55
28:BS:66:ARG:HH12	28:BS:93:GLU:CB	2.19	0.55
29:BT:69:TYR:HA	29:BT:132:ILE:CG2	2.36	0.55
24:BO:74:LEU:HD13	24:BO:74:LEU:O	2.07	0.55
7:B7:99:PHE:HZ	12:BC:69:HIS:HE2	1.55	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1076:U:OP2	21:AL:6:PRO:HB3	2.07	0.55
3:B3:43:THR:HG21	3:B3:97:GLN:OE1	2.07	0.55
12:AC:36:GLY:O	12:AC:55:ALA:CA	2.55	0.55
32:AW:210:CYS:CB	32:AW:227:ILE:HD11	2.37	0.55
11:BB:21:ALA:HB1	11:BB:145:ASP:OD2	2.07	0.55
10:AA:122:A:N7	34:AY:201:ARG:CZ	2.70	0.55
13:AD:93:LEU:HD23	13:AD:96:VAL:CG2	2.37	0.54
10:BA:1059:A:H2'	10:BA:1060:A:C8	2.42	0.54
1:B1:48:ALA:HB3	16:BG:139:MET:HB3	1.89	0.54
16:AG:189:LYS:HD3	16:AG:189:LYS:C	2.28	0.54
10:BA:1366:G:N2	10:BA:1374:C:C2	2.75	0.54
13:AD:40:ARG:CG	13:AD:41:GLU:H	2.03	0.54
10:AA:670:G:H8	10:AA:670:G:H5'	1.72	0.54
23:BN:26:ARG:O	23:BN:30:ILE:HD11	2.07	0.54
10:AA:878:A:P	20:AK:59:GLY:HA3	2.47	0.54
34:BY:23:LYS:HE2	34:BY:41:LEU:HA	1.88	0.54
10:BA:632:U:OP1	17:BH:32:LYS:CE	2.55	0.54
1:A1:20:SER:C	1:A1:22:GLY:N	2.60	0.54
1:A1:22:GLY:HA3	10:AA:1589:U:H1'	1.89	0.54
10:BA:706:U:H2'	10:BA:707:U:C6	2.41	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
16:BG:22:VAL:HG12	16:BG:23:LYS:N	2.22	0.54
22:AM:92:PHE:O	28:AS:15:GLY:HA2	2.07	0.54
10:AA:342:U:C4'	10:AA:343:C:OP2	2.52	0.54
2:A2:40:THR:O	2:A2:41:GLN:HG3	2.06	0.54
12:BC:225:LYS:HE2	27:BR:210:LYS:H	1.72	0.54
30:BU:81:GLU:CG	30:BU:97:VAL:HG21	2.37	0.54
19:BJ:19:VAL:HB	19:BJ:91:LEU:HB2	1.87	0.54
10:BA:55:U:H4'	10:BA:56:G:O5'	2.06	0.54
25:AP:131:THR:HG22	25:AP:132:TRP:N	2.23	0.54
14:AE:33:LEU:HD22	14:AE:53:ILE:HG22	1.88	0.54
29:BT:9:THR:CG2	29:BT:10:VAL:N	2.67	0.54
29:BT:9:THR:HG22	29:BT:10:VAL:H	1.70	0.54
10:BA:147:G:H5''	34:BY:15:CYS:SG	2.47	0.54
1:B1:65:ARG:HG2	1:B1:66:ARG:N	2.21	0.54
19:BJ:105:ARG:O	19:BJ:105:ARG:HG3	2.07	0.54
19:AJ:94:ASN:HB2	19:AJ:96:PRO:HD2	1.87	0.54
28:AS:56:GLU:N	28:AS:56:GLU:CD	2.60	0.54
10:BA:1050:C:H2'	10:BA:1051:G:H8	1.72	0.54
14:BE:189:LEU:CD2	14:BE:219:LEU:HD11	2.37	0.54
10:BA:1473:G:H22	10:BA:1475:G:H3'	1.70	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:279:A:H2'	10:AA:280:U:O4'	2.07	0.54
10:AA:162:A:H5'	34:AY:136:LYS:HB3	1.89	0.54
10:AA:761:U:N3	10:AA:764:U:H2'	2.22	0.54
5:B5:9:GLY:HA3	10:BA:1748:U:C4	2.42	0.54
10:BA:1368:A:C2'	10:BA:1369:A:H3'	2.37	0.54
10:BA:125:U:O2'	10:BA:126:A:OP2	2.24	0.54
20:BK:45:THR:HG21	20:BK:49:GLY:HA2	1.89	0.54
13:BD:132:ARG:C	13:BD:134:ILE:H	2.10	0.54
14:AE:228:PRO:HD3	17:AH:99:PHE:CE2	2.42	0.54
18:BI:26:PRO:CA	18:BI:65:LEU:HD22	2.29	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:A5:67:PRO:HD3	20:AK:129:ILE:CD1	2.36	0.54
20:AK:138:ASP:O	20:AK:139:SER:OG	2.23	0.54
26:AQ:66:ARG:HH22	26:AQ:128:ARG:HA	1.72	0.54
14:AE:61:ILE:HD11	14:AE:134:LYS:O	2.07	0.54
11:AB:139:PRO:CD	35:AZ:47:VAL:HG21	2.37	0.54
16:AG:99:THR:O	16:AG:101:ARG:N	2.40	0.54
18:BI:11:THR:HG21	18:BI:90:GLY:N	2.22	0.54
14:BE:116:TRP:H	14:BE:132:HIS:CD2	2.16	0.54
7:A7:40:LEU:O	7:A7:44:ILE:HG13	2.07	0.54
19:BJ:108:PRO:O	19:BJ:110:VAL:N	2.41	0.54
10:BA:774:A:O2'	10:BA:775:C:H5'	2.06	0.54
12:AC:83:SER:C	12:AC:85:ASP:H	2.10	0.54
5:B5:75:TYR:HB3	5:B5:80:ALA:HB2	1.89	0.54
10:AA:1110:A:O2'	10:AA:1111:A:C5'	2.56	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
10:BA:1721:G:H21	20:BK:151:LEU:CD1	2.19	0.54
10:BA:938:U:H2'	10:BA:939:U:H6	1.72	0.54
26:AQ:73:LEU:O	26:AQ:85:ILE:HG23	2.07	0.54
10:BA:1157:U:O2'	10:BA:1158:U:P	2.66	0.54
20:AK:43:HIS:HE1	20:AK:52:THR:HG23	1.72	0.54
24:BO:117:LEU:HD21	24:BO:121:GLU:CD	2.28	0.54
27:BR:146:ASN:O	27:BR:148:LEU:N	2.40	0.54
10:BA:623:U:H2'	10:BA:624:A:H5'	1.88	0.54
10:BA:1313:G:OP1	27:BR:73:THR:HB	2.07	0.54
2:B2:192:GLU:HA	2:B2:196:LEU:HD22	1.89	0.54
10:BA:337:G:H2'	10:BA:338:G:H8	1.71	0.54
10:AA:717:G:H2'	10:AA:718:A:O4'	2.08	0.54
10:AA:1139:G:C2	10:AA:1140:U:C4	2.95	0.54
10:AA:1551:U:H2'	10:AA:1552:U:H6	1.72	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:570:G:O6	21:BL:64:ASN:HA	2.07	0.54
10:AA:1469:U:OP1	29:AT:75:GLY:HA3	2.07	0.54
5:B5:44:MET:HB2	5:B5:66:ILE:HG21	1.88	0.54
3:B3:47:GLU:HG3	3:B3:61:VAL:HG22	1.88	0.54
34:BY:165:PHE:HD1	34:BY:165:PHE:O	1.90	0.54
32:BW:127:LYS:NZ	32:BW:186:GLN:NE2	2.55	0.54
10:AA:453:G:H2'	10:AA:454:C:C6	2.42	0.54
10:BA:392:A:C8	10:BA:395:G:C6	2.94	0.54
18:BI:88:SER:O	18:BI:92:VAL:HG23	2.07	0.54
15:AF:48:MET:HE3	15:AF:71:ILE:HG23	1.89	0.54
10:AA:512:C:C3'	10:AA:513:A:C5'	2.83	0.54
35:BZ:34:TRP:CD1	35:BZ:82:ALA:HA	2.42	0.54
1:A1:46:LYS:HZ1	16:AG:140:ARG:HH21	1.55	0.54
12:AC:84:ASP:O	12:AC:86:GLN:N	2.40	0.54
34:AY:139:ASN:HA	34:AY:142:LYS:HE2	1.87	0.54
3:B3:190:LYS:NZ	6:B6:23:ILE:HD12	2.22	0.54
14:AE:184:ILE:HB	14:AE:185:PRO:HD3	1.89	0.54
10:BA:600:A:H5'	10:BA:601:G:OP1	2.08	0.54
25:BP:9:LYS:O	25:BP:21:LEU:HA	2.08	0.54
10:BA:1556:G:C8	18:BI:124:ARG:HG3	2.42	0.54
10:AA:1721:G:N2	20:AK:151:LEU:HD11	2.20	0.54
31:BV:25:THR:HG22	31:BV:26:ASN:N	2.20	0.54
10:BA:45:A:O2'	10:BA:46:A:O5'	2.24	0.54
9:A9:126:ALA:HB2	10:AA:1224:C:C4'	2.37	0.54
10:AA:644:U:H2'	10:AA:645:C:C6	2.42	0.54
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
12:BC:9:ASN:HD22	12:BC:12:LYS:HD2	1.72	0.54
10:AA:1710:G:H5'	10:AA:1711:U:OP2	2.07	0.54
10:AA:1313:G:H4'	27:AR:101:ARG:HH22	1.73	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
27:BR:161:HIS:HB3	27:BR:197:LYS:HE2	1.90	0.54
4:B4:90:VAL:C	4:B4:101:THR:HG23	2.26	0.54
10:BA:479:G:H3'	10:BA:480:A:C8	2.42	0.54
31:AV:35:LEU:C	31:AV:35:LEU:HD23	2.28	0.54
10:BA:570:G:C4'	10:BA:574:A:N3	2.69	0.54
31:BV:41:VAL:HG11	31:BV:47:ARG:HB2	1.90	0.54
32:AW:183:CYS:O	32:AW:194:VAL:HA	2.07	0.54
21:AL:71:VAL:HG23	21:AL:86:VAL:CG2	2.37	0.54
10:AA:867:U:H5''	10:AA:867:U:H6	1.72	0.54
13:BD:161:THR:HB	13:BD:163:PRO:HD2	1.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:734:U:N3	10:BA:735:G:N7	2.54	0.54
3:A3:62:LEU:HD11	3:A3:64:TYR:CE1	2.43	0.54
30:AU:26:SER:HB2	30:AU:104:ALA:HB3	1.90	0.54
10:AA:527:A:H5'	13:AD:168:ARG:NH2	2.22	0.54
28:BS:92:PRO:O	28:BS:95:VAL:HG23	2.07	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
2:B2:79:ASN:ND2	2:B2:79:ASN:O	2.41	0.54
2:B2:127:ILE:HD11	2:B2:153:ARG:HG3	1.89	0.54
12:BC:45:THR:C	12:BC:47:THR:H	2.10	0.54
3:B3:12:LEU:HB2	3:B3:17:GLU:HG2	1.89	0.54
12:AC:82:TYR:C	12:AC:84:ASP:H	2.10	0.54
32:AW:150:ARG:HH11	32:AW:150:ARG:HG3	1.73	0.54
10:BA:1256:C:HO2'	10:BA:1257:U:P	2.31	0.54
16:AG:50:ARG:NH1	18:AI:123:PRO:HG3	2.22	0.54
10:BA:28:U:O2'	10:BA:29:G:H5'	2.08	0.54
29:BT:145:THR:HG22	29:BT:149:ILE:HD11	1.88	0.54
10:BA:1421:G:H4'	23:BN:6:TRP:CE3	2.42	0.54
21:AL:6:PRO:HG2	21:AL:15:LEU:CD2	2.38	0.54
32:AW:36:HIS:CE1	32:AW:87:GLY:HA3	2.43	0.54
24:BO:107:ASN:C	24:BO:109:LYS:H	2.11	0.54
21:AL:42:PHE:CZ	21:AL:103:VAL:HG23	2.42	0.54
28:AS:86:ARG:HB3	28:AS:122:ALA:HB2	1.89	0.54
13:AD:29:LYS:HD2	13:AD:29:LYS:C	2.28	0.54
10:BA:1050:C:H2'	10:BA:1051:G:C8	2.42	0.54
10:BA:1110:A:O2'	10:BA:1111:A:P	2.66	0.54
10:AA:1511:A:C4	10:AA:1513:G:O6	2.60	0.54
16:AG:157:ALA:O	16:AG:158:PHE:O	2.25	0.54
22:BM:41:ARG:NE	29:BT:41:THR:HG22	2.23	0.54
10:AA:132:U:H2'	10:AA:133:A:H8	1.72	0.54
22:AM:44:TYR:CD2	29:AT:49:LEU:HD11	2.42	0.54
10:BA:132:U:H2'	10:BA:133:A:H8	1.73	0.54
6:B6:52:ILE:HG13	6:B6:62:CYS:HB2	1.90	0.54
10:BA:1401:U:H2'	38:BA:2391:HOH:O	2.07	0.54
10:AA:895:U:O2'	20:AK:43:HIS:CD2	2.60	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
20:BK:27:VAL:O	20:BK:92:ALA:HB3	2.08	0.54
3:B3:70:TYR:CE2	3:B3:74:LEU:HD11	2.42	0.54
10:BA:246:U:OP2	26:BQ:33:TYR:OH	2.24	0.54
26:BQ:18:ASN:O	26:BQ:21:LYS:N	2.37	0.54
31:AV:42:PRO:HG2	31:AV:43:SER:H	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:BG:17:TRP:CD1	16:BG:103:PRO:HD2	2.43	0.54
14:AE:247:PHE:C	14:AE:249:HIS:H	2.09	0.54
35:AZ:47:VAL:HG22	35:AZ:48:GLN:N	2.23	0.54
32:BW:126:LEU:HB3	32:BW:143:THR:CG2	2.38	0.54
32:BW:99:GLN:HB3	32:BW:101:PHE:CE1	2.38	0.54
14:AE:58:PRO:HB3	14:AE:131:THR:HG23	1.89	0.54
12:AC:205:VAL:HG12	12:AC:206:LYS:H	1.67	0.54
10:BA:733:G:N2	10:BA:783:U:C2	2.76	0.54
10:BA:1360:U:HO2'	10:BA:1361:A:H8	1.56	0.54
10:BA:110:A:H4'	10:BA:111:G:O5'	2.07	0.54
2:B2:144:SER:O	2:B2:147:VAL:HG23	2.08	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
28:AS:70:GLU:HG3	28:AS:71:LYS:H	1.71	0.54
20:BK:30:VAL:HG22	20:BK:94:HIS:HB2	1.89	0.54
10:AA:923:U:H4'	38:AA:2316:HOH:O	2.08	0.54
14:AE:176:GLY:O	14:AE:178:GLY:N	2.39	0.54
10:BA:1:A:H4'	10:BA:1:A:OP3	2.07	0.54
5:A5:37:LYS:NZ	10:AA:911:A:OP1	2.41	0.54
27:BR:242:ILE:O	27:BR:242:ILE:HG22	2.07	0.54
31:BV:53:PHE:O	31:BV:56:HIS:HB3	2.08	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: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
11:BB:181:LEU:HD23	35:BZ:58:GLY:O	2.07	0.54
10:BA:1201:G:HO2'	10:BA:1202:A:H8	1.55	0.54
7:B7:6:LYS:HD2	10:BA:1228:A:OP1	2.06	0.54
10:BA:681:G:H22	10:BA:719:G:H21	1.53	0.54
26:BQ:17:LEU:HD23	26:BQ:20:LYS:NZ	2.22	0.54
10:BA:1480:U:C2'	10:BA:1481:A:OP2	2.56	0.54
12:AC:73:THR:O	12:AC:77:GLN:HG3	2.08	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
12:BC:228:ARG:HH21	27:BR:243:LEU:HD22	1.71	0.54
5:B5:84:ARG:NH1	10:BA:1125:A:H5'	2.15	0.54
10:BA:26:U:C3'	10:BA:27:A:H5''	2.38	0.54
13:BD:116:LEU:C	13:BD:118:LEU:H	2.10	0.54
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
27:BR:33:GLN:HE22	27:BR:87:GLU:HA	1.72	0.54
2:B2:185:ARG:NH1	10:BA:203:U:H1'	2.23	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:514:G:O2'	10:BA:515:U:H5'	2.08	0.54
27:AR:296:ALA:HB1	27:AR:310:PRO:CG	2.36	0.54
10:BA:804:A:H2'	10:BA:805:G:C8	2.40	0.54
10:AA:804:A:H2'	10:AA:805:G:C8	2.42	0.54
19:BJ:94:ASN:HB2	19:BJ:96:PRO:HD2	1.90	0.54
10:AA:29:G:H4'	21:AL:130:SER:HB3	1.88	0.54
30:AU:106:ARG:O	30:AU:107:LYS:HG3	2.07	0.54
26:BQ:107:PRO:CB	26:BQ:133:THR:HB	2.37	0.54
3:A3:122:VAL:O	3:A3:125:ALA:HB3	2.08	0.54
29:BT:83:PHE:CD1	29:BT:84:GLY:N	2.76	0.54
10:BA:1608:C:N4	10:BA:1718:A:H2	2.03	0.54
5:B5:13:LYS:CG	10:BA:912:A:H1'	2.38	0.54
16:BG:83:LEU:HD23	16:BG:83:LEU:C	2.28	0.54
10:AA:1608:C:H42	10:AA:1610:G:N2	2.05	0.54
10:BA:1540:G:C2'	10:BA:1541:A:OP2	2.56	0.54
10:BA:1442:A:OP2	16:BG:159:LYS:HE2	2.07	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:BA:623:U:H3	10:BA:948:A:H62	1.48	0.54
27:AR:8:ASP:O	27:AR:340:THR:HA	2.06	0.54
20:AK:54:VAL:CG1	20:AK:81:VAL:HG13	2.32	0.54
27:BR:49:LYS:O	27:BR:49:LYS:HG2	2.08	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
4:A4:136:TYR:CD2	4:A4:187:ILE:HG12	2.43	0.54
26:AQ:70:ILE:HD11	26:AQ:136:PHE:CE1	2.43	0.54
14:BE:42:ILE:O	14:BE:44:SER:N	2.40	0.54
11:AB:59:VAL:HG23	35:AZ:50:ALA:O	2.07	0.54
32:BW:183:CYS:O	32:BW:194:VAL:HA	2.08	0.54
32:AW:89:MET:HA	32:AW:89:MET:CE	2.31	0.54
34:AY:185:PRO:HG2	34:AY:186:GLU:OE1	2.07	0.54
4:A4:60:SER:OG	4:A4:94:VAL:HB	2.08	0.54
10:BA:1299:C:HO2'	12:BC:162:CYS:CB	2.20	0.54
7:B7:88:ILE:HG23	7:B7:93:LYS:HG3	1.90	0.54
19:BJ:21:ILE:HA	19:BJ:114:LEU:HD23	1.89	0.54
19:BJ:21:ILE:HD11	19:BJ:91:LEU:CD1	2.38	0.54
10:BA:1654:U:H2'	10:BA:1655:G:C8	2.43	0.54
20:AK:103:VAL:HG12	20:AK:142:ARG:CG	2.37	0.54
10:AA:1187:C:H4'	23:AN:3:ASN:O	2.07	0.54
12:BC:47:THR:O	12:BC:86:GLN:NE2	2.41	0.54
7:B7:63:PHE:CD2	12:BC:79:ARG:HD2	2.43	0.54
18:AI:102:ASN:HB2	27:AR:67:ILE:HG22	1.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1077:C:OP2	21:BL:14:LYS:NZ	2.41	0.54
10:AA:1265:U:O4'	11:AB:108:GLN:NE2	2.40	0.54
4:A4:116:MET:HE2	4:A4:215:ASN:HB3	1.88	0.54
33:AX:42:ASN:HA	33:AX:46:ALA:HB2	1.90	0.54
32:BW:117:SER:C	32:BW:119:GLU:N	2.61	0.54
11:BB:20:GLN:HG3	11:BB:41:ILE:HG21	1.90	0.54
5:B5:24:THR:HG21	5:B5:73:LEU:HD11	1.90	0.54
32:BW:157:LYS:N	32:BW:160:ASP:OD2	2.41	0.54
12:BC:141:ILE:HA	12:BC:186:GLY:O	2.08	0.54
10:AA:774:A:O2'	10:AA:775:C:H5'	2.07	0.54
22:AM:100:MET:HB3	22:AM:105:LEU:HD13	1.90	0.54
10:AA:1345:A:C2	10:AA:1346:C:C2	2.95	0.54
10:AA:806:U:H2'	10:AA:807:C:H6	1.73	0.54
10:AA:806:U:H2'	10:AA:807:C:C6	2.43	0.54
10:BA:1446:A:H2'	10:BA:1447:C:H6	1.73	0.54
10:AA:12:U:H2'	10:AA:13:C:C6	2.43	0.54
10:BA:1111:A:H2'	10:BA:1112:A:H8	1.72	0.54
10:AA:534:A:C3'	10:AA:535:A:H5'	2.13	0.54
16:AG:66:ARG:NH2	16:AG:143:ASN:HD21	2.05	0.54
34:AY:179:ILE:O	34:AY:180:GLN:C	2.46	0.54
10:AA:760:G:N2	10:AA:764:U:N3	2.54	0.54
10:BA:1583:A:C2	10:BA:1584:U:C5	2.95	0.54
27:BR:256:SER:OG	27:BR:274:THR:OG1	2.25	0.54
13:AD:135:LYS:HG2	13:AD:140:LEU:HA	1.90	0.54
17:BH:17:ALA:HA	17:BH:22:LYS:CE	2.38	0.54
10:AA:645:C:H2'	10:AA:646:A:C8	2.43	0.54
12:BC:9:ASN:HB2	12:BC:12:LYS:CB	2.37	0.54
3:A3:119:LEU:HB2	10:AA:633:U:C6	2.42	0.54
10:AA:145:G:C2	10:AA:157:G:N2	2.75	0.54
10:AA:1425:G:O3'	28:AS:127:THR:CG2	2.54	0.54
3:B3:115:ARG:HA	3:B3:118:CYS:SG	2.48	0.54
8:A8:95:LYS:HG2	8:A8:105:TYR:CZ	2.42	0.54
22:BM:6:GLU:O	22:BM:10:ASP:HB3	2.08	0.54
13:AD:46:GLN:HG2	13:AD:101:ILE:CD1	2.35	0.54
10:AA:786:A:HO2'	10:AA:787:A:P	2.31	0.54
10:AA:1652:A:N1	10:AA:1674:A:H1'	2.22	0.54
34:AY:55:GLY:HA3	34:AY:63:MET:CG	2.37	0.54
29:AT:24:SER:HA	29:AT:27:LYS:HG3	1.89	0.54
10:BA:787:A:C4	17:BH:106:THR:O	2.61	0.54
9:B9:128:HIS:HB3	9:B9:131:ARG:H	1.73	0.54
20:BK:118:ALA:HA	20:BK:121:ARG:HG2	1.89	0.54
32:BW:206:SER:O	32:BW:207:PHE:CB	2.56	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:BB:32:TYR:HD2	11:BB:158:PRO:HG3	1.71	0.54
32:AW:206:SER:O	32:AW:207:PHE:CB	2.55	0.54
11:AB:160:ASN:HD21	11:AB:162:ARG:HG3	1.73	0.54
24:AO:68:LEU:O	24:AO:68:LEU:HD23	2.07	0.54
32:AW:150:ARG:NH1	32:AW:150:ARG:HG3	2.23	0.54
18:AI:121:ALA:O	18:AI:123:PRO:HD3	2.07	0.54
10:AA:123:A:H5''	10:AA:124:U:OP1	2.07	0.54
15:AF:16:GLN:HE22	22:BM:144:HIS:CE1	2.25	0.54
4:B4:214:GLN:O	4:B4:215:ASN:C	2.46	0.54
4:A4:80:ASN:HB2	5:A5:62:GLU:OE2	2.08	0.54
10:AA:1080:G:H4'	10:AA:1081:G:O5'	2.08	0.54
10:BA:604:G:N2	21:BL:19:ARG:NH2	2.56	0.54
10:AA:264:U:O2'	10:AA:265:C:H5'	2.08	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
6:A6:34:LYS:HD2	6:A6:76:ALA:CB	2.38	0.54
10:AA:1027:U:C2	10:AA:1042:G:N2	2.76	0.54
10:AA:837:A:O2'	10:AA:838:U:P	2.66	0.54
19:BJ:49:GLU:HB2	19:BJ:92:THR:OG1	2.07	0.54
34:BY:181:ARG:NH1	34:BY:181:ARG:HG2	2.22	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
13:BD:128:LEU:C	13:BD:130:ARG:H	2.10	0.54
9:A9:128:HIS:HB3	9:A9:131:ARG:H	1.73	0.54
11:AB:5:ARG:NH2	11:AB:176:ARG:HE	2.06	0.54
10:BA:150:A:N6	10:BA:409:G:C6	2.76	0.54
10:AA:476:U:H3	10:AA:496:G:H1	1.56	0.54
4:B4:37:PRO:HD2	4:B4:101:THR:O	2.07	0.54
26:AQ:128:ARG:HB2	26:AQ:129:PRO:HD2	1.89	0.54
10:BA:1138:A:H2'	10:BA:1139:G:O4'	2.08	0.54
10:BA:1551:U:H1'	18:BI:141:GLN:NE2	2.23	0.54
10:BA:1260:G:H2'	10:BA:1261:U:H5'	1.89	0.54
32:BW:106:ASP:HB3	32:BW:108:LYS:H	1.72	0.54
16:AG:22:VAL:HG12	16:AG:23:LYS:N	2.22	0.54
32:AW:126:LEU:HB3	32:AW:143:THR:HG21	1.89	0.54
26:BQ:66:ARG:HH22	26:BQ:128:ARG:HA	1.72	0.54
13:BD:112:ARG:HD2	13:BD:153:GLU:OE2	2.08	0.54
22:AM:16:ARG:NH1	22:AM:16:ARG:HG3	2.22	0.54
10:AA:1660:A:H5'	10:AA:1661:G:OP2	2.07	0.54
10:BA:292:G:H3'	10:BA:293:U:C6	2.40	0.54
16:BG:153:CYS:O	16:BG:167:THR:HG21	2.07	0.54
10:BA:1204:U:H2'	10:BA:1205:G:H8	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1064:A:O2'	10:BA:1065:A:C5'	2.55	0.54
25:AP:101:THR:HG23	25:AP:105:PHE:CG	2.43	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:OP1	2.08	0.54
15:AF:23:VAL:CG2	15:AF:78:ARG:HD3	2.37	0.54
4:A4:117:ILE:HG22	4:A4:117:ILE:O	2.08	0.54
28:AS:49:ARG:HH22	28:AS:87:SER:HB2	1.73	0.54
3:A3:72:VAL:O	3:A3:75:SER:OG	2.18	0.54
10:AA:1069:U:O2'	14:AE:169:ARG:NE	2.41	0.54
10:BA:498:C:O2'	10:BA:499:A:OP2	2.23	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
25:BP:10:ILE:HG12	25:BP:21:LEU:HB3	1.88	0.54
10:BA:1745:G:C3'	10:BA:1746:G:C5'	2.82	0.54
29:BT:15:ALA:CB	29:BT:66:ARG:CZ	2.85	0.54
10:BA:1339:G:O2'	10:BA:1340:G:H5'	2.08	0.54
5:A5:8:ALA:HB1	10:AA:1744:U:C5'	2.38	0.54
10:AA:747:G:N2	10:AA:755:G:H1	2.05	0.54
10:BA:942:U:HO2'	10:BA:943:U:H5''	1.73	0.54
22:BM:29:PRO:HA	22:BM:32:LEU:HD12	1.89	0.54
10:BA:1178:U:H4'	23:BN:26:ARG:HH11	1.72	0.54
10:BA:1176:A:H2'	23:BN:9:HIS:HE2	1.71	0.54
28:AS:48:ARG:O	28:AS:52:ARG:HB2	2.08	0.54
5:B5:30:VAL:CG2	5:B5:76:CYS:HB2	2.36	0.54
10:AA:1567:U:H5'	23:AN:29:LEU:CD1	2.36	0.54
7:B7:13:TYR:HD2	7:B7:76:LEU:CD2	2.19	0.54
4:A4:31:TRP:CD2	20:AK:18:PRO:HD3	2.43	0.54
5:A5:59:PHE:O	5:A5:60:GLU:O	2.26	0.54
10:BA:303:A:O2'	10:BA:304:U:H5'	2.07	0.54
31:BV:70:SER:HB2	31:BV:72:LYS:HE3	1.90	0.54
16:BG:101:ARG:O	16:BG:103:PRO:HD3	2.06	0.54
10:AA:560:C:O2'	33:AX:10:LYS:HE2	2.07	0.54
10:AA:431:U:C6	10:AA:457:G:N2	2.76	0.54
28:BS:86:ARG:HB3	28:BS:122:ALA:HB2	1.88	0.54
32:AW:9:LEU:HD12	32:AW:10:LYS:N	2.22	0.54
10:AA:733:G:N2	10:AA:782:A:C6	2.74	0.54
10:AA:292:G:H3'	10:AA:293:U:C6	2.41	0.54
19:AJ:21:ILE:HA	19:AJ:114:LEU:HD23	1.89	0.54
2:A2:136:THR:CG2	2:A2:138:LEU:HG	2.38	0.54
10:BA:1133:C:O2'	10:BA:1134:C:H5'	2.08	0.54
10:AA:99:A:HO2'	10:AA:100:A:P	2.31	0.54
10:AA:906:U:H6	10:AA:906:U:OP2	1.91	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AJ:108:PRO:O	19:AJ:110:VAL:N	2.41	0.54
27:BR:8:ASP:HB2	27:BR:343:ASN:ND2	2.23	0.54
10:BA:1380:G:N2	10:BA:1383:G:OP2	2.40	0.54
28:BS:82:LYS:HB3	28:BS:107:PHE:CE2	2.43	0.54
10:AA:1050:C:H2'	10:AA:1051:G:C8	2.43	0.54
10:AA:1069:U:O2'	10:AA:1070:U:P	2.66	0.53
10:AA:600:A:H5'	10:AA:601:G:OP1	2.08	0.53
10:BA:1080:G:O5'	10:BA:1080:G:C8	2.54	0.53
10:BA:14:C:O2	10:BA:613:A:H2	1.91	0.53
8:A8:43:VAL:HG11	22:AM:57:ARG:HD2	1.88	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
4:A4:175:ASN:N	4:A4:175:ASN:HD22	2.06	0.53
10:BA:1217:G:O2'	10:BA:1218:C:P	2.66	0.53
13:AD:132:ARG:C	13:AD:134:ILE:H	2.11	0.53
13:AD:134:ILE:O	13:AD:140:LEU:HD12	2.07	0.53
10:BA:942:U:C2'	10:BA:942:U:O2	2.56	0.53
9:B9:72:LYS:NZ	10:BA:1161:A:OP1	2.34	0.53
10:BA:795:A:H5''	10:BA:796:U:OP2	2.08	0.53
7:B7:61:TRP:HE1	12:BC:26:SER:HB3	1.74	0.53
20:AK:22:GLY:C	20:AK:24:ASN:H	2.11	0.53
10:AA:632:U:OP1	17:AH:32:LYS:HE3	2.08	0.53
10:AA:798:G:O2'	10:AA:799:G:C5'	2.54	0.53
10:AA:1572:A:C6	10:AA:1574:C:N3	2.76	0.53
28:BS:88:MET:SD	28:BS:89:ILE:N	2.81	0.53
10:AA:1313:G:H4'	27:AR:101:ARG:NH2	2.23	0.53
27:AR:281:PHE:HA	27:AR:290:PRO:HD2	1.91	0.53
26:BQ:21:LYS:CE	26:BQ:31:VAL:HG21	2.33	0.53
10:AA:1469:U:OP2	29:AT:77:SER:OG	2.25	0.53
10:AA:551:U:O4	33:AX:62:TRP:HB2	2.08	0.53
31:BV:41:VAL:HG11	31:BV:47:ARG:HA	1.89	0.53
32:AW:102:ARG:CG	32:AW:116:LEU:HD21	2.37	0.53
10:BA:109:U:H5'	26:BQ:66:ARG:HD2	1.88	0.53
10:BA:1043:U:H2'	10:BA:1044:C:C6	2.43	0.53
14:BE:61:ILE:HD12	14:BE:134:LYS:CB	2.34	0.53
13:AD:116:LEU:O	13:AD:118:LEU:N	2.40	0.53
12:AC:196:GLU:O	12:AC:206:LYS:HA	2.08	0.53
28:BS:86:ARG:O	28:BS:122:ALA:HB2	2.08	0.53
34:BY:153:PRO:HG2	34:BY:154:ILE:N	2.21	0.53
25:AP:56:TYR:CD1	25:AP:56:TYR:C	2.81	0.53
15:BF:26:ARG:HH21	15:BF:72:LYS:HZ3	1.56	0.53
25:BP:101:THR:HG23	25:BP:105:PHE:CG	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1054:U:C4'	10:BA:1055:G:OP1	2.57	0.53
34:AY:2:LYS:HB3	34:AY:108:VAL:HG22	1.90	0.53
3:A3:52:LYS:HD2	3:A3:53:THR:H	1.73	0.53
10:AA:729:U:C2	10:AA:789:A:C2	2.96	0.53
33:BX:40:LEU:HA	33:BX:43:ARG:HG2	1.90	0.53
1:A1:65:ARG:HG2	1:A1:66:ARG:N	2.23	0.53
10:AA:812:U:C2'	10:AA:813:U:H5'	2.39	0.53
3:A3:167:LEU:HD11	3:A3:184:PHE:HB2	1.88	0.53
12:AC:41:GLU:HG3	12:AC:54:LYS:HE2	1.90	0.53
28:BS:47:ARG:O	28:BS:51:LYS:HB2	2.09	0.53
16:BG:180:THR:HG22	16:BG:180:THR:O	2.08	0.53
34:BY:35:GLU:OE1	34:BY:35:GLU:HA	2.07	0.53
2:B2:21:HIS:CD2	2:B2:21:HIS:N	2.76	0.53
25:BP:92:VAL:O	25:BP:92:VAL:HG12	2.09	0.53
30:AU:11:VAL:O	30:AU:15:VAL:HG23	2.08	0.53
22:AM:41:ARG:HE	29:AT:41:THR:HG22	1.74	0.53
5:B5:5:ARG:NH2	10:BA:1748:U:OP2	2.40	0.53
16:AG:197:LYS:HD3	16:AG:200:ARG:CZ	2.39	0.53
10:AA:1008:A:C5'	10:AA:1009:U:OP2	2.56	0.53
10:AA:1725:C:O2	10:AA:1743:A:C2	2.61	0.53
31:BV:17:ILE:HA	31:BV:24:LEU:CD1	2.38	0.53
4:B4:128:VAL:O	4:B4:139:ARG:HA	2.08	0.53
10:BA:132:U:H2'	10:BA:133:A:C8	2.43	0.53
10:AA:753:C:C2'	10:AA:754:A:H5'	2.38	0.53
10:BA:794:A:N3	10:BA:836:G:H1'	2.23	0.53
10:BA:642:G:H8	10:BA:642:G:OP2	1.90	0.53
10:AA:1245:G:O2'	10:AA:1246:C:P	2.66	0.53
30:BU:70:TYR:O	30:BU:125:LYS:N	2.42	0.53
27:AR:114:PHE:CZ	27:AR:133:ILE:HD13	2.43	0.53
10:BA:749:G:C5	10:BA:754:A:C2	2.95	0.53
12:BC:77:GLN:O	12:BC:81:GLY:CA	2.56	0.53
11:BB:59:VAL:HG23	35:BZ:50:ALA:O	2.09	0.53
8:B8:46:GLU:HB2	22:BM:7:LYS:HE3	1.89	0.53
32:BW:185:ILE:HD11	32:BW:193:ARG:HB3	1.88	0.53
12:AC:104:GLN:HA	12:AC:104:GLN:OE1	2.08	0.53
10:AA:1480:U:C2'	10:AA:1481:A:OP2	2.56	0.53
13:BD:153:GLU:O	13:BD:153:GLU:HG2	2.08	0.53
10:AA:733:G:N2	10:AA:783:U:C2	2.77	0.53
10:BA:431:U:C6	10:BA:457:G:N2	2.76	0.53
10:AA:1014:A:C2	10:AA:1015:C:C2	2.95	0.53
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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AF:26:ARG:HH21	15:AF:72:LYS:HZ3	1.54	0.53
25:BP:83:TYR:N	25:BP:83:TYR:HD1	2.06	0.53
10:BA:1014:A:C2	10:BA:1015:C:C2	2.97	0.53
32:BW:163:LYS:HD2	32:BW:237:TRP:CZ3	2.43	0.53
32:AW:31:PRO:HB2	32:AW:38:LEU:CD2	2.38	0.53
10:BA:1629:G:H2'	10:BA:1630:A:C8	2.43	0.53
19:BJ:80:PHE:CD2	23:BN:42:PHE:HE2	2.27	0.53
10:BA:353:G:H8	10:BA:353:G:O5'	1.91	0.53
10:AA:266:G:C4	10:AA:278:G:N2	2.77	0.53
27:AR:193:ASP:OD2	27:AR:195:ARG:HB2	2.07	0.53
25:AP:17:SER:OG	25:AP:79:TYR:CD2	2.49	0.53
10:AA:597:U:O2'	10:AA:598:A:H5'	2.09	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:604:G:O2'	10:BA:605:U:OP2	2.27	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:BA:1474:G:H5''	29:BT:102:LYS:HE2	1.90	0.53
29:BT:49:LEU:HG	29:BT:50:ALA:O	2.09	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:AA:1369:A:C5	10:AA:1370:U:C4	2.97	0.53
17:BH:17:ALA:HA	17:BH:22:LYS:CD	2.39	0.53
10:BA:1176:A:H5'	10:BA:1177:C:P	2.49	0.53
10:BA:1511:A:C8	10:BA:1511:A:OP2	2.61	0.53
10:AA:884:A:OP1	20:AK:66:ARG:HG2	2.07	0.53
24:BO:117:LEU:C	24:BO:117:LEU:HD23	2.29	0.53
13:BD:131:GLN:O	13:BD:132:ARG:HB2	2.09	0.53
10:AA:1245:G:C3'	10:AA:1246:C:H5''	2.37	0.53
10:AA:1401:U:H5'	10:AA:1402:C:OP2	2.06	0.53
27:AR:340:THR:CG2	27:AR:341:SER:H	2.08	0.53
5:A5:58:ALA:HB2	20:AK:126:ILE:N	2.23	0.53
10:BA:342:U:C4'	10:BA:343:C:OP2	2.53	0.53
10:BA:305:C:O2	10:BA:345:C:N3	2.42	0.53
14:AE:41:LYS:C	14:AE:42:ILE:HG23	2.29	0.53
27:AR:328:PHE:HB2	27:AR:334:ARG:HH12	1.73	0.53
13:AD:158:PHE:CD2	13:AD:163:PRO:HG2	2.44	0.53
12:AC:196:GLU:HG2	12:AC:203:PHE:HB2	1.90	0.53
10:BA:381:G:H22	10:BA:398:A:N6	2.06	0.53
34:AY:78:SER:H	34:AY:81:HIS:HD2	1.54	0.53
22:AM:54:PRO:CG	22:AM:55:ASN:H	2.21	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:A7:12:ILE:HG22	7:A7:13:TYR:N	2.24	0.53
10:AA:1204:U:H2'	10:AA:1205:G:H8	1.72	0.53
10:BA:1416:G:HO2'	10:BA:1417:A:P	2.30	0.53
14:BE:107:ASP:C	14:BE:109:ASN:N	2.61	0.53
11:AB:94:THR:HG21	11:AB:111:LYS:HE2	1.90	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
6:A6:54:CYS:SG	6:A6:56:LYS:HB2	2.48	0.53
4:A4:214:GLN:O	4:A4:215:ASN:C	2.47	0.53
34:BY:130:PRO:O	34:BY:131:ARG:C	2.45	0.53
9:A9:78:LYS:HB2	9:A9:80:TYR:CE1	2.42	0.53
24:BO:146:GLN:O	24:BO:150:ALA:HB2	2.08	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
10:BA:1149:C:O2'	10:BA:1150:G:H5'	2.07	0.53
22:BM:89:ILE:HG22	22:BM:90:ASN:ND2	2.23	0.53
12:AC:28:PHE:CE1	12:AC:53:ILE:HD11	2.42	0.53
16:AG:64:VAL:O	16:AG:68:ILE:HG13	2.08	0.53
10:AA:132:U:H2'	10:AA:133:A:C8	2.42	0.53
10:AA:141:A:N6	10:AA:142:A:C2	2.77	0.53
10:AA:761:U:H3	10:AA:764:U:H2'	1.74	0.53
10:BA:762:U:H2'	10:BA:763:U:OP2	2.08	0.53
4:B4:120:TRP:CH2	4:B4:156:SER:HA	2.44	0.53
10:BA:1340:G:H2'	10:BA:1341:U:C5'	2.37	0.53
13:AD:8:THR:O	13:AD:9:SER:CB	2.56	0.53
10:BA:1158:U:OP1	10:BA:1427:C:H1'	2.09	0.53
10:BA:1245:G:C3'	10:BA:1246:C:H5''	2.38	0.53
10:AA:878:A:O2'	10:AA:894:U:H1'	2.08	0.53
16:BG:116:PRO:HG3	16:BG:189:LYS:HA	1.90	0.53
27:AR:183:PHE:C	27:AR:183:PHE:CD1	2.81	0.53
8:A8:30:TRP:O	8:A8:31:THR:OG1	2.23	0.53
23:AN:28:GLY:O	23:AN:30:ILE:N	2.42	0.53
11:BB:22:THR:HG22	11:BB:23:ILE:H	1.71	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:BA:685:A:C2	10:BA:716:G:O6	2.62	0.53
30:AU:102:SER:C	30:AU:103:LEU:HD23	2.29	0.53
28:AS:38:LEU:O	28:AS:42:PHE:HD1	1.92	0.53
10:AA:859:A:C8	10:AA:859:A:C5'	2.91	0.53
12:BC:126:ILE:HG13	12:BC:139:ILE:HD12	1.90	0.53
3:A3:47:GLU:HG3	3:A3:61:VAL:HG22	1.89	0.53
12:AC:125:ILE:HD12	12:AC:125:ILE:N	2.16	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:15:LEU:HD22	32:AW:71:ASN:CB	2.36	0.53
10:AA:868:U:C2'	10:AA:869:A:C5'	2.83	0.53
10:BA:391:A:H4'	10:BA:392:A:C5'	2.38	0.53
10:BA:866:U:H2'	10:BA:867:U:H5''	1.91	0.53
10:AA:734:U:C2	10:AA:735:G:C8	2.96	0.53
10:BA:1661:G:N3	10:BA:1661:G:C3'	2.70	0.53
11:BB:139:PRO:HD3	35:BZ:47:VAL:CG2	2.37	0.53
10:BA:1652:A:N1	10:BA:1674:A:H1'	2.24	0.53
2:B2:136:THR:CG2	2:B2:138:LEU:HG	2.38	0.53
29:BT:111:LEU:HB2	29:BT:117:ILE:HD12	1.89	0.53
2:B2:65:ALA:HB3	2:B2:180:PRO:HB3	1.90	0.53
10:AA:137:G:H2'	10:AA:138:G:C8	2.42	0.53
10:BA:1390:G:H5'	23:BN:55:ARG:HD3	1.91	0.53
10:BA:1207:C:H2'	10:BA:1207:C:O2	2.07	0.53
33:BX:53:ASP:OD2	33:BX:56:LYS:HD2	2.09	0.53
10:BA:1356:G:H5'	10:BA:1357:G:OP2	2.08	0.53
4:A4:124:ILE:HB	4:A4:144:ALA:HB3	1.90	0.53
10:BA:1072:G:C4'	10:BA:1073:G:OP2	2.46	0.53
10:AA:498:C:O2'	10:AA:499:A:P	2.67	0.53
10:BA:1736:C:H2'	10:BA:1737:C:C6	2.42	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
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:BA:141:A:N6	10:BA:161:U:H3	2.06	0.53
10:AA:1368:A:C2'	10:AA:1369:A:H3'	2.38	0.53
10:AA:1201:G:O6	30:AU:30:HIS:HB3	2.08	0.53
10:BA:1241:U:O4	23:BN:27:GLN:NE2	2.42	0.53
8:A8:30:TRP:C	8:A8:30:TRP:HD1	2.09	0.53
30:BU:60:LYS:HE2	30:BU:70:TYR:OH	2.08	0.53
27:AR:49:LYS:HG2	27:AR:49:LYS:O	2.09	0.53
20:AK:95:ILE:HD11	20:AK:126:ILE:HG21	1.89	0.53
16:BG:14:PHE:HE2	16:BG:89:LYS:HA	1.68	0.53
10:BA:755:G:H8	10:BA:755:G:O5'	1.91	0.53
2:A2:14:THR:HG22	2:A2:14:THR:O	2.08	0.53
10:AA:319:A:P	26:AQ:55:LYS:HE3	2.48	0.53
17:BH:18:GLU:CG	17:BH:69:ILE:HB	2.33	0.53
29:BT:121:LYS:HG2	29:BT:128:PHE:CE1	2.44	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
11:BB:1:MET:HE3	31:BV:111:TYR:HA	1.90	0.53
10:AA:1278:C:C2'	10:AA:1278:C:O2	2.53	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:273:GLY:N	27:AR:315:LEU:HD11	2.23	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
20:BK:75:MET:HE2	20:BK:121:ARG:HH22	1.73	0.53
10:AA:1187:C:C4	10:AA:1188:A:C6	2.97	0.53
33:BX:36:TYR:CE2	33:BX:40:LEU:HD11	2.44	0.53
12:BC:24:LEU:O	12:BC:28:PHE:HD2	1.92	0.53
10:AA:963:G:H3'	10:AA:964:G:H8	1.73	0.53
10:BA:595:A:OP2	21:BL:108:ARG:NH1	2.42	0.53
21:BL:107:GLY:O	21:BL:108:ARG:O	2.26	0.53
14:AE:50:LYS:HE3	35:AZ:28:LEU:O	2.09	0.53
9:B9:169:UNK:HG2	9:B9:169:UNK:O	2.09	0.53
10:AA:1356:G:H5'	10:AA:1357:G:OP2	2.09	0.53
10:BA:583:C:O2'	33:BX:61:ASN:HB2	2.09	0.53
8:A8:34:LYS:NZ	8:A8:36:LYS:HB3	2.23	0.53
22:AM:12:LYS:HB2	22:AM:15:HIS:NE2	2.22	0.53
14:AE:182:ALA:HB3	14:AE:185:PRO:HD3	1.91	0.53
10:BA:1079:G:H2'	10:BA:1080:G:C8	2.42	0.53
10:BA:3:C:H5'	10:BA:3:C:C6	2.40	0.53
10:AA:30:C:O2'	10:AA:31:U:H5'	2.07	0.53
10:AA:141:A:H5''	10:AA:141:A:H8	1.74	0.53
10:AA:80:A:H1'	25:AP:121:THR:HG23	1.90	0.53
34:AY:181:ARG:NH1	34:AY:181:ARG:HG2	2.23	0.53
10:BA:1322:U:H2'	10:BA:1323:C:O4'	2.09	0.53
18:AI:43:PRO:C	18:AI:45:ILE:N	2.62	0.53
4:A4:120:TRP:CH2	4:A4:156:SER:HA	2.44	0.53
27:BR:183:PHE:CD1	27:BR:183:PHE:C	2.82	0.53
4:B4:139:ARG:HH12	10:BA:862:A:H5'	1.73	0.53
31:AV:17:ILE:HA	31:AV:24:LEU:CD1	2.38	0.53
31:AV:53:PHE:O	31:AV:56:HIS:HB3	2.09	0.53
5:A5:30:VAL:HG21	5:A5:76:CYS:CB	2.32	0.53
9:A9:154:UNK:HA	9:A9:157:UNK:CG	2.38	0.53
11:BB:5:ARG:NH2	11:BB:12:ARG:HH22	2.05	0.53
24:AO:117:LEU:HD23	24:AO:117:LEU:C	2.29	0.53
18:BI:30:LEU:HG	18:BI:66:ASP:OD1	2.08	0.53
8:B8:95:LYS:HG2	8:B8:105:TYR:CZ	2.42	0.53
7:B7:14:LYS:HG2	7:B7:80:LEU:HD11	1.89	0.53
12:BC:226:GLU:HG2	27:BR:208:THR:HG23	1.90	0.53
27:BR:77:HIS:CG	27:BR:78:PHE:H	2.25	0.53
31:AV:44:LYS:O	31:AV:47:ARG:HB3	2.08	0.53
28:AS:38:LEU:O	28:AS:42:PHE:CD1	2.62	0.53
10:AA:305:C:O2	10:AA:345:C:N3	2.42	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A2:106:LYS:O	2:A2:176:ILE:HB	2.08	0.53
2:A2:91:TYR:HD2	2:A2:109:ILE:CD1	2.21	0.53
8:A8:46:GLU:HG3	22:AM:5:ILE:O	2.09	0.53
27:BR:273:GLY:N	27:BR:315:LEU:HD11	2.24	0.53
10:AA:90:U:H6	10:AA:90:U:O5'	1.92	0.53
7:A7:58:ILE:HD13	12:AC:31:SER:CB	2.35	0.53
10:AA:96:A:C2'	10:AA:97:U:H5'	2.39	0.53
9:B9:83:LYS:CG	9:B9:84:LYS:N	2.71	0.53
10:AA:271:U:C4'	10:AA:272:U:H5'	2.36	0.53
16:BG:24:ILE:HD12	16:BG:30:GLN:HA	1.89	0.53
10:AA:1421:G:O2'	10:AA:1422:C:H5'	2.08	0.53
7:B7:63:PHE:HB2	7:B7:65:TYR:CE1	2.41	0.53
11:BB:51:GLN:HE22	35:BZ:95:ILE:CB	2.21	0.53
31:BV:114:ILE:CB	31:BV:115:PRO:CD	2.87	0.53
4:B4:162:ALA:O	4:B4:163:LYS:C	2.47	0.53
7:B7:24:LEU:HD12	7:B7:25:LYS:H	1.73	0.53
10:AA:1623:A:O2'	10:AA:1624:G:H8	1.92	0.53
10:BA:550:G:OP1	33:BX:59:SER:HB3	2.08	0.53
3:A3:33:LEU:O	3:A3:37:LEU:HB2	2.08	0.53
10:BA:854:G:H1'	10:BA:922:A:H1'	1.89	0.53
1:B1:6:THR:HG23	1:B1:56:GLU:HB3	1.91	0.53
2:A2:82:ARG:NH1	10:AA:254:A:H5'	2.23	0.53
3:B3:191:THR:HG23	3:B3:193:HIS:CD2	2.44	0.53
13:BD:55:ALA:O	13:BD:59:LEU:HG	2.08	0.53
27:BR:157:GLU:HA	27:BR:160:ASN:OD1	2.09	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:1476:A:C2'	10:AA:1477:A:H5'	2.38	0.53
29:AT:49:LEU:HG	29:AT:50:ALA:O	2.08	0.53
16:AG:133:ALA:HB2	16:AG:200:ARG:CB	2.39	0.53
10:BA:1370:U:H3'	10:BA:1370:U:C6	2.43	0.53
9:B9:155:UNK:HA	9:B9:158:UNK:CG	2.39	0.53
10:BA:881:U:O2	10:BA:883:A:OP2	2.27	0.53
20:AK:45:THR:HG23	20:AK:51:GLU:O	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
10:AA:794:A:N3	10:AA:836:G:H1'	2.23	0.53
11:BB:29:MET:O	11:BB:33:ILE:HG13	2.08	0.53
10:AA:955:A:C2	10:AA:956:A:N3	2.77	0.53
7:B7:11:ARG:O	7:B7:15:GLN:HG3	2.09	0.53
10:BA:1229:U:C2'	10:BA:1229:U:O2	2.56	0.53
2:B2:192:GLU:CB	26:BQ:19:SER:HB3	2.39	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:234:G:N1	10:AA:235:A:C2	2.77	0.53
31:AV:47:ARG:HD2	31:AV:48:ASN:N	2.24	0.53
28:AS:15:GLY:N	28:AS:114:PHE:HE2	2.06	0.53
26:AQ:87:ARG:NH1	26:AQ:104:ARG:NH1	2.55	0.53
14:BE:247:PHE:C	14:BE:249:HIS:H	2.12	0.53
5:B5:44:MET:CE	5:B5:44:MET:HA	2.38	0.53
22:BM:6:GLU:O	22:BM:10:ASP:CB	2.57	0.53
2:A2:111:GLU:HA	2:A2:172:ILE:O	2.09	0.53
27:BR:281:PHE:CD1	27:BR:281:PHE:N	2.77	0.53
32:BW:49:LYS:HE2	32:BW:58:GLY:HA2	1.90	0.53
11:AB:2:ALA:CB	35:AZ:97:GLU:HB2	2.37	0.53
10:BA:454:C:C2'	10:BA:455:C:C5'	2.86	0.53
27:AR:242:ILE:O	27:AR:242:ILE:HG22	2.08	0.53
10:BA:1660:A:H5'	10:BA:1661:G:OP2	2.08	0.53
15:AF:51:TRP:HE1	15:AF:84:PHE:HE2	1.47	0.53
9:B9:120:GLY:N	9:B9:121:PRO:CD	2.72	0.53
9:A9:120:GLY:N	9:A9:121:PRO:CD	2.72	0.53
15:BF:55:LEU:HD22	15:BF:77:HIS:HB3	1.91	0.53
10:AA:968:C:H4'	20:AK:141:ARG:O	2.09	0.53
15:AF:78:ARG:NH1	15:AF:100:GLY:CA	2.72	0.53
15:BF:33:THR:HG21	15:BF:81:ILE:HD12	1.90	0.53
22:BM:100:MET:HB3	22:BM:105:LEU:HD13	1.90	0.53
11:AB:203:LEU:HD22	11:AB:204:PRO:HD2	1.90	0.53
3:B3:109:LYS:H	3:B3:109:LYS:HD2	1.74	0.53
33:AX:53:ASP:OD2	33:AX:56:LYS:HD2	2.09	0.53
11:AB:107:TYR:CD1	11:AB:107:TYR:O	2.62	0.53
11:BB:107:TYR:O	11:BB:107:TYR:CD1	2.61	0.53
35:AZ:20:LYS:O	35:AZ:22:GLU:HG3	2.09	0.53
10:AA:614:A:OP2	10:AA:615:A:OP2	2.26	0.53
17:AH:71:LYS:HG3	17:AH:128:PHE:HE1	1.74	0.53
14:BE:145:TRP:H	14:BE:153:HIS:CE1	2.24	0.53
22:AM:1:MET:H3	22:AM:3:PHE:HE2	1.56	0.53
10:AA:1561:U:H3	10:AA:1579:G:H1	1.55	0.53
23:AN:20:CYS:O	23:AN:21:ARG:C	2.47	0.53
10:BA:1720:G:H3'	10:BA:1720:G:P	2.48	0.53
10:AA:942:U:H1'	10:AA:943:U:C6	2.44	0.53
31:BV:27:ASP:O	31:BV:31:ASN:ND2	2.42	0.53
10:AA:1370:U:C6	10:AA:1370:U:H3'	2.43	0.53
10:AA:670:G:C2'	10:AA:671:A:H5'	2.39	0.53
19:AJ:49:GLU:HB2	19:AJ:92:THR:OG1	2.08	0.53
16:BG:200:ARG:HG3	16:BG:200:ARG:OXT	2.09	0.53
10:BA:644:U:H2'	10:BA:645:C:C6	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1712:C:H2'	10:AA:1713:G:O4'	2.09	0.53
3:A3:133:PRO:HD2	3:A3:162:PHE:CE2	2.44	0.53
10:AA:931:A:OP1	24:AO:96:LYS:NZ	2.42	0.53
28:BS:33:LEU:HD22	28:BS:62:VAL:HG21	1.89	0.53
35:BZ:13:MET:HE3	35:BZ:31:LYS:HD3	1.91	0.53
10:BA:1230:U:H2'	10:BA:1231:C:C6	2.44	0.53
3:B3:130:LEU:C	3:B3:132:LEU:N	2.61	0.53
5:A5:54:GLN:O	5:A5:57:LEU:HB3	2.09	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
16:BG:96:HIS:O	16:BG:100:GLY:N	2.42	0.53
10:AA:206:U:C5'	26:AQ:20:LYS:HD2	2.38	0.53
10:AA:206:U:H3	10:AA:251:G:H1	1.57	0.53
14:AE:32:LYS:O	14:AE:35:ARG:HB3	2.09	0.53
31:BV:35:LEU:HD23	31:BV:35:LEU:C	2.29	0.53
32:BW:127:LYS:HZ3	32:BW:186:GLN:HE22	1.54	0.53
32:BW:88:LEU:HD12	32:BW:104:LEU:HD23	1.89	0.53
10:AA:1277:U:H2'	10:AA:1277:U:O2	2.07	0.53
10:AA:866:U:H2'	10:AA:867:U:H5''	1.90	0.53
34:AY:153:PRO:HG2	34:AY:154:ILE:N	2.20	0.53
3:B3:65:VAL:CG2	3:B3:73:LEU:HD22	2.37	0.53
15:AF:52:LYS:HE2	15:AF:59:ALA:H	1.74	0.53
11:BB:160:ASN:HD21	11:BB:162:ARG:HG3	1.73	0.53
11:AB:51:GLN:HE22	35:AZ:95:ILE:CB	2.22	0.53
29:AT:9:THR:CG2	29:AT:10:VAL:N	2.70	0.53
3:A3:78:ARG:O	3:A3:82:ILE:HG13	2.09	0.53
21:BL:6:PRO:HG2	21:BL:15:LEU:CD2	2.38	0.53
10:AA:1590:C:O2'	10:AA:1591:C:H5''	2.08	0.53
10:BA:812:U:C2'	10:BA:813:U:H5'	2.39	0.53
2:A2:82:ARG:HH11	10:AA:254:A:H5'	1.73	0.53
10:AA:207:U:H2'	10:AA:208:A:C8	2.44	0.53
10:BA:7:G:H4'	10:BA:567:C:O2'	2.09	0.53
34:AY:35:GLU:HA	34:AY:35:GLU:OE1	2.09	0.53
10:AA:1207:C:H2'	10:AA:1207:C:O2	2.08	0.53
2:B2:123:LEU:HD21	10:BA:180:C:H5''	1.91	0.53
16:BG:47:THR:C	16:BG:49:GLY:N	2.60	0.53
10:AA:627:U:P	21:AL:10:ARG:HB2	2.49	0.53
10:AA:284:U:O2'	10:AA:285:C:H5'	2.09	0.53
16:AG:62:PRO:O	16:AG:64:VAL:N	2.42	0.53
1:A1:62:ARG:HH22	16:AG:200:ARG:HB2	1.69	0.53
35:BZ:40:PHE:HB2	35:BZ:43:ASP:CB	2.24	0.53
10:BA:1368:A:O2'	10:BA:1369:A:H3'	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:58:G:O2'	10:BA:59:C:C6	2.62	0.53
10:AA:1368:A:O2'	10:AA:1369:A:H3'	2.09	0.53
10:BA:840:A:H4'	17:BH:57:ARG:CG	2.39	0.53
20:AK:31:CYS:HA	20:AK:43:HIS:O	2.09	0.53
3:A3:115:ARG:HA	3:A3:118:CYS:SG	2.49	0.53
10:AA:1246:C:P	10:AA:1399:G:OP1	2.67	0.53
10:AA:1171:G:O2'	10:AA:1172:G:P	2.67	0.53
10:AA:1728:U:O2'	10:AA:1729:A:H5'	2.09	0.53
10:BA:341:G:O4'	10:BA:343:C:C2	2.62	0.53
10:BA:341:G:H5''	10:BA:342:U:C3'	2.39	0.53
10:AA:235:A:H2'	10:AA:814:A:C5'	2.39	0.53
28:AS:59:ALA:O	28:AS:62:VAL:HB	2.09	0.53
10:BA:748:U:O4	13:BD:149:ARG:HG3	2.09	0.53
10:AA:302:U:C2'	10:AA:303:A:H5''	2.39	0.53
5:B5:58:ALA:HB3	20:BK:126:ILE:O	2.09	0.53
26:AQ:8:ALA:CB	26:AQ:11:LYS:HE2	2.38	0.53
2:A2:89:VAL:HA	2:A2:110:VAL:HG13	1.90	0.53
10:AA:1296:G:C6	10:AA:1297:A:N7	2.77	0.53
16:AG:17:TRP:CD1	16:AG:103:PRO:HD2	2.44	0.53
10:AA:420:A:O2'	10:AA:432:U:H4'	2.08	0.53
27:AR:131:ARG:HA	27:AR:147:ILE:CG2	2.33	0.53
21:BL:29:PHE:CZ	21:BL:33:LEU:HD12	2.44	0.53
10:AA:1650:G:H2'	10:AA:1651:G:O4'	2.09	0.53
15:BF:32:PHE:CE2	15:BF:72:LYS:HE2	2.43	0.53
8:B8:31:THR:O	8:B8:32:LYS:C	2.47	0.53
16:AG:122:ARG:HH21	16:AG:129:VAL:CG2	2.21	0.53
15:AF:44:TYR:N	15:AF:44:TYR:CD1	2.63	0.53
21:BL:101:VAL:HG11	21:BL:123:VAL:HG13	1.90	0.53
31:BV:107:LYS:HG2	31:BV:112:GLN:CB	2.39	0.53
21:AL:101:VAL:HG11	21:AL:123:VAL:HG13	1.91	0.53
12:BC:84:ASP:C	12:BC:86:GLN:N	2.62	0.53
10:BA:1191:A:C3'	10:BA:1192:C:H5'	2.39	0.53
27:AR:52:MET:HB3	27:AR:54:TRP:NE1	2.24	0.53
13:BD:100:THR:HG21	13:BD:102:HIS:HB3	1.90	0.53
22:AM:87:ASN:ND2	22:AM:99:GLN:NE2	2.57	0.53
10:AA:123:A:H3'	10:AA:124:U:C6	2.44	0.53
34:BY:2:LYS:HB3	34:BY:108:VAL:HG22	1.91	0.53
19:AJ:39:VAL:CG1	19:AJ:43:LYS:HE3	2.39	0.53
10:BA:525:U:H5''	25:BP:63:GLY:N	2.23	0.53
21:AL:42:PHE:HZ	21:AL:103:VAL:HG23	1.74	0.53
21:BL:47:HIS:CE1	21:BL:104:ALA:HB2	2.43	0.53
10:BA:207:U:H2'	10:BA:208:A:H8	1.73	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:51:TYR:N	14:AE:51:TYR:CD1	2.77	0.53
7:B7:5:LEU:HB2	7:B7:8:THR:OG1	2.09	0.53
34:BY:166:LYS:HA	34:BY:171:LYS:O	2.09	0.53
9:A9:169:UNK:HG2	9:A9:169:UNK:O	2.07	0.53
10:AA:152:U:O2'	10:AA:153:U:OP1	2.25	0.53
26:BQ:3:THR:HG21	26:BQ:51:THR:HB	1.91	0.53
10:AA:1507:U:O2'	10:AA:1508:G:O5'	2.26	0.53
29:AT:83:PHE:CD1	29:AT:84:GLY:N	2.77	0.53
10:AA:1723:A:H2'	10:AA:1724:U:C6	2.43	0.53
10:AA:1753:A:P	10:AA:1753:A:H8	2.32	0.53
27:BR:274:THR:HG23	27:BR:276:GLN:H	1.74	0.53
13:AD:127:VAL:O	13:AD:131:GLN:CG	2.56	0.53
12:BC:35:ALA:HB2	12:BC:60:GLN:CG	2.39	0.53
26:BQ:73:LEU:O	26:BQ:85:ILE:HG23	2.09	0.53
10:BA:1439:U:H5'	29:BT:91:ASN:O	2.09	0.53
10:AA:1322:U:H2'	10:AA:1323:C:O4'	2.09	0.53
10:AA:876:A:O2'	10:AA:877:G:P	2.67	0.53
9:A9:148:UNK:C	9:A9:151:UNK:HG3	2.39	0.53
14:AE:224:ARG:HD2	35:AZ:40:PHE:CZ	2.41	0.53
30:AU:60:LYS:HE2	30:AU:70:TYR:OH	2.09	0.53
5:A5:44:MET:HA	5:A5:44:MET:CE	2.39	0.53
2:B2:7:SER:HB3	10:BA:327:G:N2	2.23	0.53
10:BA:205:A:H2'	10:BA:206:U:O4'	2.09	0.53
10:BA:476:U:H3	10:BA:496:G:H1	1.56	0.53
10:AA:216:G:C2	10:AA:821:C:H1'	2.44	0.53
10:BA:1464:U:H5''	10:BA:1465:C:OP2	2.08	0.53
10:AA:205:A:H2'	10:AA:206:U:O4'	2.08	0.53
10:BA:413:C:O5'	10:BA:413:C:H6	1.91	0.53
10:BA:420:A:O2'	10:BA:432:U:H4'	2.09	0.53
15:BF:62:VAL:HG21	15:BF:72:LYS:HD2	1.91	0.53
27:AR:258:ILE:HG23	27:AR:272:VAL:HG13	1.91	0.53
10:AA:272:U:C3'	10:AA:273:A:H5''	2.39	0.53
27:AR:174:MET:HE1	27:AR:178:ASN:HB2	1.90	0.53
10:AA:1054:U:C4'	10:AA:1055:G:OP1	2.57	0.53
11:BB:51:GLN:HE22	35:BZ:95:ILE:N	2.06	0.53
18:BI:112:MET:CE	18:BI:116:ARG:HA	2.39	0.53
10:BA:963:G:H3'	10:BA:964:G:H8	1.74	0.53
12:AC:47:THR:O	12:AC:86:GLN:NE2	2.42	0.53
10:AA:1629:G:H2'	10:AA:1630:A:C8	2.43	0.53
32:BW:36:HIS:CE1	32:BW:87:GLY:HA3	2.44	0.53
10:AA:525:U:C5'	25:AP:63:GLY:H	2.22	0.53
4:B4:116:MET:HE2	4:B4:215:ASN:HB3	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BQ:81:ARG:HD3	26:BQ:112:PRO:HG3	1.91	0.53
7:A7:81:GLY:HA3	30:AU:21:CYS:SG	2.49	0.53
10:AA:979:A:C2	15:AF:30:LYS:NZ	2.75	0.53
35:BZ:25:ASP:O	35:BZ:27:TYR:N	2.42	0.53
18:AI:36:SER:HB3	18:AI:37:PRO:HD2	1.90	0.53
14:AE:173:ALA:HB1	14:AE:174:PRO:CD	2.39	0.52
10:BA:1069:U:C3'	14:BE:160:THR:HG21	2.39	0.52
10:AA:1511:A:O2'	10:AA:1512:G:OP2	2.27	0.52
10:AA:1541:A:O2'	22:AM:147:VAL:HG21	2.08	0.52
22:BM:81:ILE:H	29:BT:40:TRP:HZ2	1.57	0.52
18:AI:12:PHE:HA	18:AI:20:ALA:O	2.09	0.52
29:AT:38:THR:HG22	29:AT:56:TRP:CZ2	2.44	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
10:BA:1376:A:H2'	10:BA:1377:A:C8	2.44	0.52
10:AA:1717:C:H2'	10:AA:1718:A:C5'	2.39	0.52
10:BA:1373:G:H2'	10:BA:1374:C:C6	2.42	0.52
10:BA:426:G:N2	10:BA:428:A:H3'	2.24	0.52
10:BA:141:A:H8	10:BA:141:A:H5''	1.74	0.52
4:B4:60:SER:OG	4:B4:94:VAL:HB	2.09	0.52
17:BH:125:ILE:CG2	17:BH:126:LEU:N	2.72	0.52
10:BA:1511:A:C4	10:BA:1513:G:O6	2.62	0.52
22:BM:146:VAL:CG1	22:BM:147:VAL:H	2.07	0.52
22:BM:11:PHE:CZ	22:BM:25:LYS:HD3	2.44	0.52
19:AJ:67:LYS:HD2	19:AJ:76:THR:CG2	2.39	0.52
3:B3:133:PRO:HD2	3:B3:162:PHE:CE2	2.44	0.52
20:AK:116:LEU:HD23	20:AK:116:LEU:C	2.29	0.52
26:BQ:10:GLN:CA	26:BQ:10:GLN:OE1	2.56	0.52
10:AA:681:G:H22	10:AA:719:G:H21	1.53	0.52
4:B4:38:ILE:CG2	4:B4:39:PRO:HD2	2.39	0.52
10:AA:68:U:H4'	34:AY:169:LYS:HZ1	1.75	0.52
12:AC:77:GLN:O	12:AC:81:GLY:HA3	2.08	0.52
26:AQ:61:SER:OG	26:AQ:62:ASN:N	2.42	0.52
13:AD:106:GLU:HG3	13:AD:111:THR:HG21	1.91	0.52
10:AA:1464:U:H5''	10:AA:1465:C:OP2	2.10	0.52
13:AD:116:LEU:C	13:AD:118:LEU:H	2.12	0.52
12:BC:196:GLU:O	12:BC:206:LYS:HA	2.08	0.52
34:BY:55:GLY:HA3	34:BY:63:MET:CG	2.38	0.52
10:BA:734:U:C2	10:BA:735:G:C8	2.97	0.52
10:AA:96:A:O2'	10:AA:97:U:H5'	2.09	0.52
10:AA:1064:A:N3	10:AA:1064:A:H2'	2.24	0.52
28:AS:101:VAL:CG2	28:AS:121:LEU:HD11	2.36	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:AT:15:ALA:CB	29:AT:66:ARG:CZ	2.87	0.52
10:BA:1064:A:O2'	10:BA:1065:A:H5''	2.09	0.52
29:AT:119:LYS:HE2	29:AT:130:ARG:NH1	2.24	0.52
7:B7:56:GLU:OE1	7:B7:56:GLU:HA	2.09	0.52
10:BA:971:A:H2'	10:BA:972:G:C5'	2.37	0.52
20:BK:99:ALA:O	20:BK:100:LYS:C	2.46	0.52
27:BR:84:LEU:HD13	27:BR:85:SER:N	2.25	0.52
10:BA:93:C:H2'	10:BA:94:U:O4'	2.09	0.52
1:A1:6:THR:HG23	1:A1:56:GLU:HB3	1.91	0.52
19:AJ:80:PHE:CD2	23:AN:42:PHE:HE2	2.27	0.52
15:AF:35:VAL:HG12	15:AF:38:ILE:HD11	1.91	0.52
2:B2:63:PHE:CD1	2:B2:63:PHE:N	2.76	0.52
26:BQ:52:TYR:O	26:BQ:52:TYR:CD1	2.63	0.52
26:BQ:60:THR:HG22	26:BQ:60:THR:O	2.10	0.52
4:B4:217:THR:HG22	4:B4:218:ILE:N	2.24	0.52
24:AO:146:GLN:O	24:AO:150:ALA:HB2	2.09	0.52
14:AE:184:ILE:HG22	14:AE:212:LEU:HD23	1.89	0.52
17:BH:76:SER:CB	17:BH:77:PRO:CD	2.87	0.52
10:AA:762:U:C2'	10:AA:763:U:OP2	2.57	0.52
18:BI:15:LYS:HD3	18:BI:16:LYS:HG2	1.91	0.52
5:A5:5:ARG:NH2	10:AA:1748:U:H3'	2.23	0.52
10:BA:64:U:C5	10:BA:79:G:C2	2.97	0.52
10:BA:880:G:OP2	20:BK:38:ASN:ND2	2.39	0.52
10:BA:1507:U:HO2'	10:BA:1508:G:P	2.32	0.52
10:AA:125:U:O2'	10:AA:126:A:OP2	2.26	0.52
9:A9:159:UNK:O	9:A9:162:UNK:HG3	2.10	0.52
11:BB:5:ARG:CZ	11:BB:176:ARG:HH21	2.22	0.52
10:AA:928:C:H2'	10:AA:929:A:C8	2.43	0.52
20:BK:22:GLY:C	20:BK:24:ASN:H	2.12	0.52
10:AA:1178:U:O4	10:AA:1426:G:O6	2.27	0.52
10:AA:955:A:H2'	10:AA:956:A:O4'	2.09	0.52
20:BK:53:LEU:HD13	20:BK:88:LEU:HD13	1.91	0.52
10:AA:391:A:H4'	10:AA:392:A:C5'	2.38	0.52
34:AY:167:THR:HG22	34:AY:169:LYS:H	1.72	0.52
10:BA:1500:C:C5'	16:BG:86:LYS:HZ1	2.22	0.52
10:BA:1467:U:H3	10:BA:1483:G:H1	1.56	0.52
21:BL:55:LYS:HB2	21:BL:92:LEU:HD21	1.91	0.52
22:AM:6:GLU:O	22:AM:10:ASP:CB	2.57	0.52
32:BW:185:ILE:HD11	32:BW:193:ARG:CB	2.39	0.52
31:BV:35:LEU:CD2	31:BV:41:VAL:HG21	2.39	0.52
26:BQ:5:ILE:O	26:BQ:6:GLN:C	2.47	0.52
32:AW:127:LYS:HZ3	32:AW:186:GLN:HE22	1.57	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:161:THR:OG1	32:AW:229:VAL:HB	2.10	0.52
10:AA:453:G:OP2	13:AD:1:MET:CG	2.57	0.52
32:AW:49:LYS:CE	32:AW:58:GLY:HA2	2.39	0.52
14:AE:57:GLU:HB2	14:AE:60:ILE:CG1	2.35	0.52
13:AD:153:GLU:HG2	13:AD:153:GLU:O	2.09	0.52
10:BA:867:U:H6	10:BA:867:U:H5"	1.73	0.52
18:AI:11:THR:HG21	18:AI:90:GLY:N	2.24	0.52
3:B3:81:ILE:O	3:B3:85:GLU:HG3	2.09	0.52
18:BI:8:LEU:HD12	18:BI:9:VAL:N	2.21	0.52
34:BY:78:SER:H	34:BY:81:HIS:HD2	1.57	0.52
34:BY:64:LYS:HE2	34:BY:82:SER:O	2.09	0.52
7:A7:9:LYS:HA	7:A7:45:LEU:HD11	1.90	0.52
10:AA:1333:A:N7	10:AA:1334:U:C4	2.77	0.52
34:BY:9:LEU:HD23	34:BY:9:LEU:N	2.22	0.52
33:AX:50:LEU:CD2	33:AX:57:ARG:HH12	2.19	0.52
7:A7:38:PRO:CB	7:A7:41:HIS:HD2	2.22	0.52
31:AV:20:TYR:N	31:AV:20:TYR:CD1	2.75	0.52
10:BA:1086:G:O2'	10:BA:1087:U:OP2	2.23	0.52
10:AA:1692:C:H2'	10:AA:1693:A:H8	1.74	0.52
16:AG:50:ARG:HG2	16:AG:53:VAL:HG21	1.90	0.52
27:AR:212:HIS:HE1	27:AR:231:GLY:HA2	1.74	0.52
2:A2:65:ALA:HB3	2:A2:180:PRO:HB3	1.91	0.52
19:BJ:39:VAL:CG1	19:BJ:43:LYS:HE3	2.39	0.52
16:BG:178:ASN:HA	16:BG:186:ILE:HD13	1.91	0.52
11:AB:168:SER:HB2	11:AB:198:PHE:HB3	1.90	0.52
11:BB:168:SER:HB2	11:BB:198:PHE:HB3	1.91	0.52
10:BA:1390:G:H2'	10:BA:1391:C:O4'	2.08	0.52
33:AX:36:TYR:CE2	33:AX:40:LEU:HD11	2.44	0.52
30:BU:88:ALA:HA	30:BU:93:GLU:O	2.09	0.52
10:BA:3:C:C6	10:BA:3:C:C5'	2.87	0.52
17:BH:97:ARG:C	17:BH:98:GLN:HG2	2.29	0.52
29:BT:40:TRP:O	29:BT:41:THR:O	2.27	0.52
12:AC:9:ASN:HD22	12:AC:12:LYS:HD2	1.74	0.52
5:B5:8:ALA:HB1	10:BA:1744:U:C5'	2.38	0.52
10:BA:1608:C:N4	10:BA:1610:G:N2	2.56	0.52
10:AA:1717:C:C6	10:AA:1717:C:H5'	2.31	0.52
10:BA:1368:A:C2'	10:BA:1370:U:OP2	2.58	0.52
10:BA:1366:G:N2	10:BA:1374:C:N1	2.56	0.52
9:B9:152:UNK:HA	9:B9:155:UNK:CG	2.40	0.52
9:A9:133:TYR:CE1	9:A9:138:HIS:HA	2.44	0.52
10:AA:793:G:H5"	10:AA:794:A:OP1	2.08	0.52
10:AA:1246:C:OP2	10:AA:1399:G:OP2	2.26	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:AU:70:TYR:O	30:AU:125:LYS:N	2.42	0.52
10:AA:1171:G:C1'	19:AJ:66:ARG:NH1	2.69	0.52
28:AS:127:THR:O	28:AS:127:THR:HG22	2.09	0.52
11:AB:36:LYS:HG3	11:AB:42:HIS:CE1	2.45	0.52
10:AA:623:U:H2'	10:AA:624:A:H5'	1.92	0.52
10:BA:1197:A:H2'	10:BA:1198:A:H8	1.74	0.52
27:AR:9:ILE:HG21	27:AR:291:VAL:CG2	2.39	0.52
3:B3:70:TYR:CE1	3:B3:96:ALA:HB2	2.45	0.52
27:BR:114:PHE:CD1	27:BR:114:PHE:N	2.78	0.52
2:B2:105:VAL:HG22	10:BA:320:G:O2'	2.08	0.52
10:AA:716:G:O2'	10:AA:717:G:H5'	2.10	0.52
10:BA:476:U:H2'	10:BA:477:G:C8	2.44	0.52
10:AA:235:A:N1	10:AA:814:A:C6	2.77	0.52
10:BA:753:C:H2'	10:BA:754:A:H5'	1.91	0.52
10:BA:562:G:OP1	21:BL:69:LYS:CE	2.56	0.52
26:AQ:10:GLN:O	26:AQ:11:LYS:HD3	2.10	0.52
11:AB:56:ALA:O	11:AB:59:VAL:HG12	2.08	0.52
10:AA:26:U:C3'	10:AA:27:A:H5''	2.39	0.52
32:BW:127:LYS:HB2	32:BW:228:PHE:CE1	2.44	0.52
2:A2:140:ASN:ND2	10:AA:182:U:H3	2.06	0.52
10:AA:782:A:H3'	10:AA:782:A:H8	1.73	0.52
10:AA:398:A:OP1	34:AY:94:ARG:HD3	2.10	0.52
12:AC:159:TYR:O	12:AC:160:MET:HB2	2.09	0.52
8:A8:63:VAL:HG22	16:AG:97:LEU:HB2	1.88	0.52
34:BY:64:LYS:O	34:BY:65:GLN:C	2.47	0.52
10:BA:1252:C:O2'	19:BJ:68:SER:HB2	2.09	0.52
16:AG:107:PHE:HA	16:AG:172:ILE:CG2	2.40	0.52
10:BA:1064:A:O2'	10:BA:1065:A:H3'	2.08	0.52
25:AP:101:THR:HG23	25:AP:105:PHE:CE1	2.44	0.52
10:BA:1165:A:HO2'	10:BA:1166:A:P	2.32	0.52
10:AA:1166:A:O2'	10:AA:1167:C:H5'	2.09	0.52
25:AP:146:PHE:CD1	25:AP:147:VAL:N	2.77	0.52
15:AF:55:LEU:HD22	15:AF:77:HIS:HB3	1.90	0.52
11:BB:96:SER:HB3	11:BB:111:LYS:NZ	2.24	0.52
5:A5:24:THR:HG21	5:A5:73:LEU:HD11	1.91	0.52
28:BS:49:ARG:NH1	28:BS:87:SER:O	2.42	0.52
20:AK:110:PRO:C	20:AK:112:ALA:H	2.12	0.52
21:AL:107:GLY:O	21:AL:108:ARG:O	2.27	0.52
14:BE:135:LEU:N	14:BE:135:LEU:HD23	2.23	0.52
10:BA:1345:A:C2	10:BA:1346:C:C2	2.97	0.52
11:BB:159:CYS:SG	11:BB:170:ILE:HD12	2.49	0.52
10:AA:1:A:H2'	14:AE:180:VAL:HG13	1.90	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:605:U:H5	26:BQ:95:LYS:HE2	1.74	0.52
10:AA:135:A:C2'	10:AA:136:U:OP2	2.57	0.52
10:AA:1043:U:H2'	10:AA:1044:C:C6	2.44	0.52
10:AA:840:A:N6	24:AO:72:LYS:HZ1	2.08	0.52
10:AA:427:A:C5'	21:AL:49:LYS:HG3	2.37	0.52
10:BA:80:A:H1'	25:BP:121:THR:CG2	2.39	0.52
10:AA:1418:C:H5'	10:AA:1418:C:H6	1.72	0.52
10:AA:1368:A:C2'	10:AA:1370:U:OP2	2.57	0.52
10:BA:1399:G:C2'	10:BA:1400:G:H5'	2.39	0.52
23:BN:38:CYS:SG	23:BN:40:ARG:HG3	2.49	0.52
34:BY:36:VAL:HB	34:BY:50:PHE:HB2	1.91	0.52
10:BA:795:A:H4'	10:BA:796:U:C5'	2.39	0.52
8:A8:30:TRP:O	8:A8:31:THR:CB	2.57	0.52
15:BF:48:MET:HE3	15:BF:71:ILE:HG23	1.91	0.52
11:BB:5:ARG:NH2	11:BB:176:ARG:HE	2.07	0.52
10:AA:1249:G:H3'	10:AA:1250:G:C8	2.44	0.52
10:AA:1171:G:N7	23:AN:39:ARG:HD3	2.25	0.52
1:A1:12:MET:HB3	1:A1:28:ARG:CG	2.28	0.52
27:AR:266:LYS:HD2	27:AR:320:LEU:O	2.10	0.52
2:B2:77:SER:HA	26:BQ:23:LEU:HD11	1.91	0.52
34:AY:165:PHE:O	34:AY:165:PHE:HD1	1.90	0.52
3:B3:135:THR:CG2	3:B3:136:LEU:HD23	2.39	0.52
21:BL:55:LYS:HD3	21:BL:55:LYS:H	1.74	0.52
10:BA:1292:U:C5	11:BB:98:ARG:NE	2.77	0.52
11:BB:141:ILE:HG23	11:BB:155:VAL:HG12	1.90	0.52
32:BW:193:ARG:NE	32:BW:247:ARG:HG2	2.24	0.52
5:B5:87:ARG:NH1	10:BA:1126:C:OP1	2.42	0.52
34:AY:184:THR:HB	34:AY:185:PRO:CD	2.33	0.52
10:BA:31:U:H3	10:BA:460:A:H2	1.56	0.52
10:AA:1651:G:H1'	10:AA:1674:A:N6	2.24	0.52
27:AR:274:THR:HG23	27:AR:276:GLN:N	2.25	0.52
25:BP:83:TYR:CD1	25:BP:83:TYR:N	2.76	0.52
14:BE:33:LEU:HD22	14:BE:53:ILE:CG2	2.39	0.52
28:BS:90:VAL:HB	28:BS:117:ILE:HA	1.90	0.52
30:BU:120:ILE:C	30:BU:122:GLY:H	2.11	0.52
24:BO:30:MET:HE2	24:BO:34:THR:HB	1.90	0.52
7:B7:47:ARG:HA	7:B7:50:LYS:HG2	1.91	0.52
18:AI:116:ARG:HB3	18:AI:120:VAL:HG21	1.92	0.52
32:BW:150:ARG:HG3	32:BW:150:ARG:HH11	1.75	0.52
3:A3:43:THR:HG21	3:A3:97:GLN:OE1	2.09	0.52
3:B3:78:ARG:O	3:B3:82:ILE:HG13	2.09	0.52
12:BC:221:ILE:HD13	27:BR:162:SER:OG	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
10:BA:1336:A:O2'	10:BA:1337:C:H5'	2.09	0.52
12:BC:83:SER:C	12:BC:85:ASP:H	2.12	0.52
27:AR:342:ALA:O	27:AR:343:ASN:HB2	2.09	0.52
19:BJ:27:ASN:HD21	19:BJ:29:LYS:HB2	1.74	0.52
12:BC:207:THR:HG23	12:BC:208:PRO:HD2	1.91	0.52
13:AD:23:ARG:HH21	13:AD:24:LEU:CD2	2.23	0.52
14:BE:145:TRP:HE3	14:BE:173:ALA:O	1.92	0.52
10:BA:1473:G:H5''	29:BT:102:LYS:NZ	2.24	0.52
10:AA:426:G:N2	10:AA:428:A:H3'	2.24	0.52
10:BA:47:C:H2'	10:BA:48:C:H6	1.73	0.52
20:BK:46:ASP:OD1	20:BK:51:GLU:HB2	2.09	0.52
6:B6:31:MET:HE3	6:B6:77:PHE:CD2	2.43	0.52
9:A9:132:HIS:O	9:A9:140:THR:HA	2.09	0.52
9:A9:147:UNK:O	9:A9:151:UNK:HG3	2.09	0.52
3:A3:130:LEU:C	3:A3:132:LEU:N	2.62	0.52
3:A3:123:TYR:CE2	3:A3:178:THR:HA	2.45	0.52
24:AO:96:LYS:O	24:AO:100:ILE:CD1	2.57	0.52
7:B7:12:ILE:HA	7:B7:15:GLN:NE2	2.25	0.52
30:AU:86:PHE:CD1	30:AU:86:PHE:N	2.77	0.52
10:AA:570:G:C4'	10:AA:574:A:N3	2.73	0.52
2:B2:12:ARG:O	2:B2:14:THR:N	2.43	0.52
10:AA:1468:G:O2'	29:AT:126:LYS:HE2	2.09	0.52
26:AQ:29:ALA:O	26:AQ:31:VAL:N	2.43	0.52
10:AA:188:G:H2'	10:AA:189:C:H5''	1.91	0.52
32:AW:42:LEU:HB2	32:AW:111:PHE:CE2	2.45	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:AA:110:A:O2'	26:AQ:64:SER:HB3	2.10	0.52
35:AZ:34:TRP:HD1	35:AZ:82:ALA:CA	2.23	0.52
10:BA:512:C:H3'	10:BA:513:A:H5''	1.86	0.52
8:B8:30:TRP:HD1	8:B8:31:THR:N	2.06	0.52
3:B3:152:ARG:HG3	3:B3:154:GLN:HE22	1.73	0.52
10:AA:1353:G:H1'	19:AJ:55:ARG:NH1	2.24	0.52
2:A2:124:HIS:CE1	2:A2:152:LYS:HD3	2.44	0.52
10:AA:243:G:O4'	32:AW:204:GLN:HB2	2.10	0.52
29:AT:131:VAL:HG12	29:AT:132:ILE:N	2.25	0.52
18:BI:116:ARG:HB3	18:BI:120:VAL:HG21	1.91	0.52
18:AI:107:ILE:O	18:AI:110:GLN:HB3	2.09	0.52
25:AP:51:ARG:CZ	25:AP:146:PHE:CE1	2.92	0.52
4:B4:75:LEU:O	4:B4:79:SER:OG	2.27	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:525:U:H5''	25:BP:63:GLY:HA2	1.91	0.52
21:AL:47:HIS:CE1	21:AL:104:ALA:HB2	2.44	0.52
21:BL:42:PHE:HB3	21:BL:45:ALA:HB3	1.92	0.52
30:AU:15:VAL:HG22	30:AU:112:ILE:HD13	1.91	0.52
4:B4:85:ARG:HH22	4:B4:218:ILE:H	1.57	0.52
4:A4:30:GLU:HG3	4:A4:52:LYS:HD3	1.91	0.52
12:AC:117:PRO:HG2	12:AC:120:LEU:HB3	1.92	0.52
34:BY:167:THR:HG22	34:BY:168:ALA:N	2.24	0.52
10:AA:1529:U:H2'	10:AA:1529:U:O2	2.08	0.52
24:AO:8:GLY:O	24:AO:9:LYS:HB2	2.10	0.52
10:AA:1151:G:H2'	10:AA:1152:C:C6	2.45	0.52
10:AA:359:U:H3	10:AA:364:G:H1	1.57	0.52
14:AE:145:TRP:N	14:AE:153:HIS:HE1	2.07	0.52
10:AA:1272:A:H5''	14:AE:87:VAL:HG11	1.92	0.52
10:BA:15:U:O2'	10:BA:614:A:N6	2.43	0.52
10:BA:761:U:N3	10:BA:764:U:H2'	2.24	0.52
10:AA:45:A:O2'	10:AA:46:A:P	2.68	0.52
5:A5:89:ARG:HD3	10:AA:1750:A:N6	2.25	0.52
10:BA:1290:G:OP1	31:BV:67:ARG:HG2	2.09	0.52
10:BA:279:A:H2'	10:BA:280:U:O4'	2.10	0.52
10:BA:71:U:HO2'	10:BA:72:G:P	2.33	0.52
17:BH:11:LEU:O	17:BH:14:LEU:HB3	2.10	0.52
26:AQ:117:LYS:NZ	26:AQ:144:ASN:O	2.37	0.52
10:BA:1430:C:H3'	22:BM:138:THR:HG21	1.92	0.52
8:B8:66:VAL:HG11	10:BA:1506:G:C6	2.44	0.52
10:BA:793:G:H5''	10:BA:794:A:OP1	2.09	0.52
10:BA:466:A:H4'	13:BD:130:ARG:NH2	2.25	0.52
21:AL:112:ALA:CB	21:AL:119:VAL:O	2.57	0.52
10:AA:930:A:O2'	10:AA:931:A:H5'	2.08	0.52
10:AA:1569:A:C4	23:AN:13:TYR:HE2	2.27	0.52
10:AA:495:C:O2'	10:AA:496:G:H5'	2.09	0.52
10:BA:716:G:O2'	10:BA:717:G:H5'	2.09	0.52
10:BA:495:C:O2'	10:BA:496:G:H5'	2.10	0.52
22:BM:119:ILE:CG2	28:BS:124:PHE:HE2	2.23	0.52
10:BA:91:G:OP2	32:BW:3:ARG:NH1	2.42	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
10:BA:30:C:O2'	10:BA:31:U:H5'	2.10	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
3:B3:80:LEU:HD13	3:B3:94:PHE:CE2	2.44	0.52
2:A2:143:LYS:HG3	2:A2:144:SER:N	2.24	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AF:43:ASP:H	8:B8:32:LYS:HB2	1.75	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
14:AE:49:PHE:CD1	35:AZ:41:SER:HB3	2.44	0.52
25:AP:27:HIS:CE1	25:AP:67:SER:OG	2.59	0.52
10:BA:300:C:H5'	10:BA:300:C:C6	2.45	0.52
10:BA:1692:C:H2'	10:BA:1693:A:H8	1.75	0.52
11:AB:20:GLN:HG3	11:AB:41:ILE:HG21	1.91	0.52
20:AK:105:THR:C	20:AK:107:GLN:H	2.13	0.52
10:BA:1529:U:H2'	10:BA:1529:U:O2	2.08	0.52
34:AY:47:GLY:O	34:AY:117:GLY:HA3	2.09	0.52
24:AO:104:LEU:HD21	24:AO:113:SER:HB3	1.90	0.52
14:AE:138:VAL:HG11	14:AE:220:ALA:CB	2.39	0.52
4:A4:161:TYR:HD1	4:A4:161:TYR:N	2.08	0.52
10:AA:1540:G:O2'	10:AA:1541:A:OP2	2.27	0.52
10:AA:1442:A:H5'	10:AA:1545:A:H62	1.75	0.52
10:AA:1376:A:H2'	10:AA:1377:A:C8	2.44	0.52
10:AA:84:U:C2'	10:AA:85:G:H5'	2.35	0.52
10:AA:1326:C:H6	10:AA:1326:C:C5'	2.23	0.52
10:BA:1369:A:C5	10:BA:1370:U:C4	2.98	0.52
10:BA:63:U:C5'	10:BA:64:U:OP1	2.57	0.52
28:BS:48:ARG:O	28:BS:52:ARG:HB2	2.10	0.52
9:B9:154:UNK:HA	9:B9:157:UNK:CG	2.40	0.52
10:BA:1157:U:O2'	10:BA:1158:U:OP2	2.25	0.52
8:A8:30:TRP:HD1	8:A8:31:THR:N	2.07	0.52
10:AA:125:U:N3	10:AA:171:U:O4	2.43	0.52
9:A9:129:TYR:HB2	9:A9:154:UNK:CG	2.40	0.52
3:A3:131:LEU:HD23	3:A3:170:ILE:HD13	1.92	0.52
10:AA:1249:G:H3'	10:AA:1250:G:H8	1.75	0.52
10:AA:1568:C:O2'	10:AA:1570:U:H5	1.91	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:AA:617:A:O2'	10:AA:618:G:OP1	2.25	0.52
28:AS:33:LEU:CD2	28:AS:62:VAL:HG21	2.40	0.52
10:AA:1715:A:C3'	10:AA:1715:A:C8	2.93	0.52
10:BA:544:G:C6	10:BA:576:U:C5	2.98	0.52
10:AA:303:A:C2	10:AA:305:C:N3	2.78	0.52
2:B2:6:ASP:HB2	2:B2:22:ARG:HH21	1.75	0.52
32:AW:196:ILE:O	32:AW:212:VAL:HG12	2.09	0.52
27:BR:328:PHE:HB2	27:BR:334:ARG:HH12	1.74	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:AY:184:THR:O	34:AY:188:ILE:HG13	2.09	0.52
4:A4:35:ARG:HE	4:A4:44:SER:CB	2.19	0.52
10:BA:293:U:H2'	10:BA:293:U:O2	2.09	0.52
19:AJ:21:ILE:HD11	19:AJ:91:LEU:CD1	2.40	0.52
18:AI:7:GLN:O	18:AI:25:ARG:HG3	2.10	0.52
34:AY:211:GLU:HA	34:AY:211:GLU:OE1	2.10	0.52
10:AA:371:U:O2'	10:AA:372:C:P	2.68	0.52
10:BA:1421:G:O2'	10:BA:1422:C:H5'	2.10	0.52
24:BO:13:ILE:C	24:BO:14:SER:O	2.48	0.52
12:AC:145:LEU:HD11	12:AC:153:MET:HB2	1.90	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
10:AA:595:A:H2'	10:AA:596:U:O4'	2.09	0.52
10:BA:284:U:O2'	10:BA:285:C:H5'	2.10	0.52
26:AQ:91:HIS:O	26:AQ:99:TYR:HA	2.10	0.52
32:AW:174:PHE:O	32:AW:175:ALA:HB2	2.10	0.52
10:AA:1288:C:OP1	31:AV:7:LYS:HB2	2.10	0.52
4:A4:196:GLY:C	4:A4:198:ASP:H	2.13	0.52
10:AA:992:G:H2'	10:AA:993:U:O4'	2.10	0.52
10:AA:1519:U:O2	10:AA:1519:U:H2'	2.09	0.52
10:BA:542:G:H2'	10:BA:543:A:H8	1.75	0.52
14:AE:153:HIS:HB2	14:AE:196:ASP:OD2	2.10	0.52
16:AG:33:ILE:HG23	16:AG:34:ALA:N	2.25	0.52
10:BA:533:G:H3'	33:BX:28:ARG:NH1	2.25	0.52
18:BI:43:PRO:C	18:BI:45:ILE:N	2.63	0.52
6:A6:31:MET:HE3	6:A6:77:PHE:CD2	2.44	0.52
10:BA:1326:C:H6	10:BA:1326:C:H5'	1.75	0.52
10:BA:141:A:C2	10:BA:162:A:C6	2.98	0.52
6:B6:30:PHE:CZ	24:BO:63:PRO:HB3	2.44	0.52
10:BA:845:G:OP1	24:BO:5:GLN:HB3	2.10	0.52
8:B8:60:VAL:CG2	8:B8:73:LEU:HD21	2.40	0.52
13:BD:126:ARG:NH1	13:BD:144:PRO:HB2	2.25	0.52
1:B1:19:GLY:O	1:B1:22:GLY:N	2.41	0.52
10:AA:1119:G:C2	10:AA:1605:A:C2	2.98	0.52
2:A2:26:ALA:HA	10:AA:391:A:C2	2.44	0.52
2:A2:6:ASP:HB2	2:A2:22:ARG:HH21	1.74	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:BA:206:U:H3	10:BA:251:G:H1	1.57	0.52
10:AA:1138:A:H2'	10:AA:1139:G:O4'	2.10	0.52
10:BA:234:G:C2	10:BA:235:A:C2	2.97	0.52
28:AS:92:PRO:O	28:AS:95:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:341:G:O4'	10:AA:343:C:C2	2.63	0.52
10:BA:181:G:C2	10:BA:194:G:C2	2.98	0.52
10:AA:246:U:H4'	10:AA:247:C:OP2	2.08	0.52
31:BV:46:LEU:HD23	31:BV:46:LEU:O	2.10	0.52
27:BR:297:GLU:H	27:BR:298:PRO:CD	2.23	0.52
10:AA:564:A:H61	21:AL:115:ASP:HB3	1.74	0.52
10:BA:538:A:H4'	10:BA:539:U:OP1	2.10	0.52
10:AA:98:U:H3'	10:AA:98:U:H6	1.75	0.52
10:AA:293:U:H2'	10:AA:293:U:O2	2.10	0.52
29:AT:24:SER:O	29:AT:27:LYS:N	2.39	0.52
7:A7:13:TYR:HD2	7:A7:76:LEU:CD2	2.21	0.52
29:AT:121:LYS:HG2	29:AT:128:PHE:CE1	2.45	0.52
27:AR:84:LEU:HD13	27:AR:85:SER:N	2.25	0.52
10:AA:1331:A:C2	10:AA:1334:U:H5	2.27	0.52
29:BT:131:VAL:HG12	29:BT:132:ILE:N	2.25	0.52
10:BA:1606:C:C3'	10:BA:1606:C:C6	2.93	0.52
27:BR:52:MET:HB3	27:BR:54:TRP:NE1	2.24	0.52
35:BZ:93:TYR:HB3	35:BZ:94:PRO:HD3	1.92	0.52
18:BI:107:ILE:O	18:BI:110:GLN:HB3	2.10	0.52
18:AI:102:ASN:CG	27:AR:67:ILE:HG21	2.30	0.52
4:B4:75:LEU:HB2	4:B4:79:SER:OG	2.10	0.52
1:A1:8:LYS:HG2	1:A1:56:GLU:OE1	2.10	0.52
15:AF:33:THR:HG21	15:AF:81:ILE:HD12	1.92	0.52
28:BS:56:GLU:CD	28:BS:56:GLU:N	2.63	0.52
10:AA:1556:G:O2'	10:AA:1557:U:P	2.67	0.52
10:AA:1585:U:P	16:AG:66:ARG:HH12	2.32	0.52
10:AA:141:A:N6	10:AA:161:U:H3	2.07	0.52
10:AA:764:U:N3	10:AA:766:G:C2	2.78	0.52
17:AH:30:VAL:HG21	17:AH:61:VAL:HG23	1.92	0.52
10:AA:47:C:C2'	10:AA:48:C:H5'	2.39	0.52
10:BA:1561:U:H3	10:BA:1579:G:H1	1.56	0.52
18:BI:12:PHE:O	18:BI:89:LYS:HD2	2.10	0.52
10:BA:1326:C:C5'	10:BA:1326:C:H6	2.22	0.52
10:BA:132:U:H1'	34:BY:149:LYS:NZ	2.25	0.52
10:AA:642:G:OP2	10:AA:642:G:H8	1.93	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:1511:A:OP2	10:BA:1511:A:H8	1.93	0.52
5:B5:30:VAL:HG12	5:B5:35:ALA:HB2	1.89	0.52
10:BA:145:G:C2	10:BA:157:G:N2	2.77	0.52
10:AA:392:A:C8	10:AA:395:G:C6	2.98	0.52
27:AR:83:ALA:HB1	27:AR:126:PHE:HB2	1.92	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BR:266:LYS:HD2	27:BR:320:LEU:O	2.10	0.52
4:A4:26:LEU:CD1	20:AK:84:ARG:NH2	2.70	0.52
2:B2:109:ILE:CG2	2:B2:191:LEU:HD11	2.40	0.52
10:BA:318:U:H5'	10:BA:319:A:OP2	2.10	0.52
10:AA:50:A:H2'	10:AA:51:U:H5'	1.91	0.52
10:BA:753:C:C2'	10:BA:754:A:H5'	2.40	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
32:AW:185:ILE:HD11	32:AW:193:ARG:CB	2.39	0.52
22:BM:50:LEU:HD22	22:BM:68:LYS:HB3	1.92	0.52
14:BE:116:TRP:N	14:BE:132:HIS:HD2	2.02	0.52
10:AA:1305:C:O4'	12:AC:165:GLN:HG3	2.09	0.52
33:AX:34:ARG:O	33:AX:34:ARG:HG2	2.07	0.52
22:BM:54:PRO:CG	22:BM:55:ASN:H	2.20	0.52
10:BA:215:A:N6	10:BA:811:U:H3	2.08	0.52
10:AA:148:C:H5'	34:AY:108:VAL:HG21	1.91	0.52
10:AA:1149:C:O2'	10:AA:1150:G:H5'	2.10	0.52
11:BB:11:LYS:HD3	31:BV:93:ILE:O	2.10	0.52
2:A2:79:ASN:ND2	2:A2:79:ASN:O	2.43	0.52
25:BP:51:ARG:CZ	25:BP:146:PHE:CE1	2.92	0.52
25:BP:26:LEU:C	25:BP:28:PRO:HD2	2.30	0.52
25:BP:27:HIS:CE1	25:BP:67:SER:OG	2.61	0.52
10:BA:728:U:H2'	10:BA:729:U:H5'	1.90	0.52
35:AZ:87:LEU:HB2	35:AZ:93:TYR:HB2	1.92	0.52
32:AW:195:GLY:HA3	32:AW:213:LYS:O	2.10	0.52
10:BA:1701:C:H2'	10:BA:1702:A:O4'	2.10	0.52
17:AH:110:ILE:O	17:AH:111:LEU:HD23	2.10	0.52
25:AP:92:VAL:O	25:AP:92:VAL:HG12	2.09	0.52
3:A3:191:THR:HG23	3:A3:193:HIS:CD2	2.45	0.52
2:B2:82:ARG:HH11	10:BA:254:A:H5'	1.74	0.52
10:AA:1336:A:O2'	10:AA:1337:C:H5'	2.10	0.52
2:A2:72:ASN:OD1	2:A2:81:THR:HG22	2.10	0.52
10:AA:1070:U:OP2	10:AA:1070:U:H6	1.93	0.52
10:AA:1080:G:O6	21:AL:22:GLN:OE1	2.27	0.52
10:BA:1059:A:N6	10:BA:1060:A:N6	2.58	0.52
10:AA:1443:A:H4'	10:AA:1444:U:O5'	2.05	0.52
10:AA:141:A:C3'	10:AA:141:A:C8	2.93	0.52
10:AA:760:G:H21	10:AA:766:G:N2	2.03	0.52
10:BA:1419:G:H5'	10:BA:1419:G:C8	2.43	0.52
34:BY:184:THR:HB	34:BY:185:PRO:CD	2.35	0.52
10:AA:1186:G:H5'	10:AA:1216:A:H2	1.75	0.52
31:AV:25:THR:HG22	31:AV:26:ASN:N	2.19	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:AQ:122:LEU:HD23	26:AQ:123:VAL:H	1.68	0.52
28:AS:45:LYS:O	28:AS:48:ARG:HB3	2.10	0.52
10:AA:894:U:C5	10:AA:895:U:C5	2.98	0.52
10:BA:645:C:H2'	10:BA:646:A:C8	2.43	0.52
10:BA:670:G:C8	10:BA:670:G:H5'	2.43	0.52
10:AA:1399:G:C2'	10:AA:1400:G:H5'	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
14:BE:228:PRO:CD	17:BH:99:PHE:CE2	2.93	0.52
27:AR:252:PHE:CD2	27:AR:281:PHE:HD2	2.29	0.52
3:B3:178:THR:HG22	3:B3:180:ARG:HG3	1.92	0.52
26:AQ:83:VAL:CG1	26:AQ:84:ILE:N	2.72	0.52
10:AA:576:U:H4'	10:AA:577:C:OP1	2.10	0.52
10:BA:302:U:C2'	10:BA:303:A:H5''	2.40	0.52
2:B2:5:ARG:NH2	10:BA:323:U:O2'	2.43	0.52
13:BD:6:ILE:HG22	13:BD:7:ASN:H	1.75	0.52
10:BA:49:C:O2'	10:BA:50:A:C5'	2.50	0.52
7:A7:90:LYS:HB2	12:AC:74:GLN:HE22	1.75	0.52
11:AB:139:PRO:CB	35:AZ:47:VAL:HG21	2.40	0.52
12:BC:104:GLN:OE1	12:BC:104:GLN:HA	2.11	0.52
10:BA:1320:A:H5'	10:BA:1321:G:OP2	2.10	0.52
14:AE:69:LYS:HE2	14:AE:76:LYS:HZ3	1.75	0.52
34:AY:91:PHE:HD1	34:AY:91:PHE:O	1.93	0.52
35:AZ:34:TRP:HD1	35:AZ:82:ALA:HA	1.75	0.52
12:BC:156:LYS:HE3	12:BC:160:MET:HG2	1.91	0.52
34:AY:113:ILE:CD1	34:AY:124:LEU:HD13	2.40	0.52
10:AA:1471:C:P	29:AT:130:ARG:HH22	2.31	0.52
7:A7:56:GLU:HB3	7:A7:67:TYR:CE1	2.45	0.52
2:B2:138:LEU:HD11	2:B2:153:ARG:HH12	1.75	0.52
29:BT:118:ARG:HB2	29:BT:133:THR:CG2	2.40	0.52
10:AA:1191:A:C3'	10:AA:1192:C:H5'	2.40	0.52
15:BF:35:VAL:CG1	15:BF:38:ILE:HD11	2.39	0.52
9:A9:88:HIS:HE2	10:AA:1220:C:H5''	1.74	0.52
19:AJ:38:ILE:HG13	19:AJ:104:PHE:HE2	1.74	0.52
10:AA:653:U:C2	10:AA:656:G:N2	2.78	0.52
10:BA:744:A:H4'	13:BD:72:GLU:OE1	2.10	0.52
11:AB:116:ARG:HG3	14:AE:242:GLU:OE2	2.10	0.52
10:BA:34:U:H6	10:BA:34:U:H5''	1.75	0.52
10:BA:5:U:C2	10:BA:20:G:N2	2.79	0.51
8:A8:65:THR:HG22	8:A8:66:VAL:N	2.25	0.51
10:AA:141:A:H3'	10:AA:141:A:C8	2.45	0.51
10:BA:1004:A:H4'	10:BA:1006:C:C4	2.44	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:BG:33:ILE:HG23	16:BG:34:ALA:N	2.24	0.51
20:AK:150:ARG:O	20:AK:151:LEU:CB	2.58	0.51
27:BR:276:GLN:C	27:BR:294:ILE:HG23	2.30	0.51
31:BV:5:ARG:CG	31:BV:10:LYS:HE2	2.40	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:AA:1419:G:H5'	10:AA:1419:G:C8	2.45	0.51
10:AA:1362:U:OP1	31:AV:59:LYS:NZ	2.41	0.51
31:AV:25:THR:C	31:AV:31:ASN:HD21	2.12	0.51
31:AV:53:PHE:CZ	31:AV:57:LEU:HD21	2.45	0.51
6:B6:34:LYS:HD2	6:B6:76:ALA:CB	2.40	0.51
11:AB:181:LEU:HD23	35:AZ:58:GLY:O	2.10	0.51
9:A9:146:UNK:O	9:A9:150:UNK:CG	2.51	0.51
30:AU:46:VAL:CG1	30:AU:56:VAL:HG13	2.35	0.51
27:AR:206:ARG:HG2	27:AR:207:TYR:CD1	2.45	0.51
5:A5:53:ILE:HD13	20:AK:116:LEU:HD22	1.92	0.51
8:A8:95:LYS:HZ1	8:A8:98:LYS:HD2	1.73	0.51
33:BX:7:THR:HG22	33:BX:8:LEU:H	1.75	0.51
27:BR:238:LEU:HG	27:BR:248:PRO:HB3	1.92	0.51
4:A4:182:ALA:HB2	4:A4:190:PHE:HE2	1.72	0.51
13:BD:45:VAL:CG1	13:BD:101:ILE:HG23	2.40	0.51
12:BC:196:GLU:HG2	12:BC:203:PHE:HB2	1.92	0.51
28:BS:86:ARG:CZ	28:BS:122:ALA:HB1	2.40	0.51
24:AO:30:MET:HE2	24:AO:34:THR:HB	1.91	0.51
27:AR:256:SER:HG	27:AR:274:THR:HG1	1.57	0.51
11:AB:156:VAL:CG2	35:AZ:80:HIS:CB	2.88	0.51
25:BP:56:TYR:C	25:BP:56:TYR:CD1	2.83	0.51
11:BB:134:SER:CB	11:BB:152:TYR:CE2	2.91	0.51
10:AA:1148:G:H1'	10:AA:1167:C:O2'	2.10	0.51
10:BA:1099:G:O2'	10:BA:1100:U:H5'	2.09	0.51
10:BA:971:A:H62	10:BA:989:G:N2	2.07	0.51
10:BA:830:G:H2'	10:BA:831:G:C8	2.44	0.51
32:AW:117:SER:C	32:AW:119:GLU:N	2.61	0.51
9:B9:78:LYS:HB2	9:B9:80:TYR:HE1	1.75	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
19:AJ:105:ARG:O	19:AJ:105:ARG:HG3	2.09	0.51
34:BY:47:GLY:O	34:BY:117:GLY:HA3	2.10	0.51
3:A3:109:LYS:H	3:A3:109:LYS:HD2	1.75	0.51
4:B4:30:GLU:HG3	4:B4:52:LYS:HD3	1.91	0.51
27:BR:287:SER:OG	27:BR:288:LYS:N	2.43	0.51
10:AA:1269:G:N7	38:AA:2406:HOH:O	2.34	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:8:U:H5'	10:AA:9:U:OP2	2.09	0.51
17:BH:77:PRO:O	17:BH:78:ARG:HB2	2.10	0.51
5:B5:5:ARG:NH2	10:BA:1748:U:H3'	2.25	0.51
10:AA:1752:U:O3'	10:AA:1753:A:H8	1.93	0.51
9:B9:148:UNK:C	9:B9:151:UNK:HG3	2.40	0.51
13:AD:128:LEU:C	13:AD:130:ARG:N	2.61	0.51
24:AO:143:TYR:HA	24:AO:147:THR:CB	2.40	0.51
16:BG:197:LYS:HD3	16:BG:200:ARG:CZ	2.41	0.51
25:BP:3:ILE:HD12	25:BP:3:ILE:N	2.25	0.51
18:AI:29:GLY:HA2	18:AI:65:LEU:O	2.10	0.51
3:A3:113:ARG:O	3:A3:113:ARG:HG2	2.09	0.51
10:AA:1176:A:H5'	10:AA:1177:C:P	2.50	0.51
3:B3:131:LEU:HD23	3:B3:170:ILE:HD13	1.91	0.51
10:BA:616:A:O2'	10:BA:617:A:P	2.68	0.51
10:AA:311:U:H4'	10:AA:312:C:C6	2.46	0.51
27:BR:109:THR:HG22	27:BR:110:THR:N	2.25	0.51
27:BR:96:TRP:HA	27:BR:120:GLU:HB3	1.93	0.51
10:AA:562:G:OP1	21:AL:69:LYS:CE	2.59	0.51
3:A3:169:ALA:O	3:A3:173:ILE:HG13	2.10	0.51
28:AS:33:LEU:HD22	28:AS:62:VAL:HG21	1.92	0.51
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
10:AA:89:A:N7	10:AA:389:G:C4	2.78	0.51
12:AC:126:ILE:HG13	12:AC:139:ILE:HD12	1.92	0.51
10:AA:966:A:O2'	10:AA:967:U:H5'	2.10	0.51
13:BD:31:ILE:HG23	13:BD:36:LEU:HB2	1.92	0.51
13:BD:42:VAL:O	13:BD:46:GLN:HG3	2.11	0.51
10:BA:531:A:O4'	10:BA:536:C:N4	2.43	0.51
24:AO:31:THR:CG2	24:AO:32:PRO:HD2	2.40	0.51
21:BL:26:ASP:HB3	21:BL:29:PHE:HB3	1.92	0.51
4:A4:94:VAL:HG13	4:A4:98:ASN:O	2.10	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
3:B3:62:LEU:HD11	3:B3:64:TYR:CE1	2.45	0.51
15:BF:26:ARG:HB2	15:BF:32:PHE:CE1	2.45	0.51
15:AF:62:VAL:HG21	15:AF:72:LYS:HD2	1.91	0.51
29:AT:118:ARG:O	29:AT:130:ARG:HA	2.11	0.51
1:B1:46:LYS:HB3	16:BG:134:VAL:HG11	1.91	0.51
22:BM:16:ARG:NH1	22:BM:16:ARG:HG3	2.22	0.51
18:BI:121:ALA:O	18:BI:123:PRO:HD3	2.10	0.51
20:BK:105:THR:C	20:BK:107:GLN:H	2.13	0.51
32:BW:150:ARG:NH1	32:BW:150:ARG:HG3	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:138:G:OP2	34:BY:143:LYS:NZ	2.43	0.51
10:AA:1701:C:H2'	10:AA:1702:A:C5'	2.40	0.51
13:BD:29:LYS:C	13:BD:29:LYS:HD2	2.30	0.51
34:BY:167:THR:HG22	34:BY:169:LYS:H	1.74	0.51
20:AK:42:ILE:HD11	20:AK:115:ALA:HB1	1.91	0.51
10:AA:1320:A:H5'	10:AA:1321:G:OP2	2.09	0.51
10:BA:1604:C:H6	10:BA:1604:C:O5'	1.93	0.51
10:AA:353:G:O5'	10:AA:353:G:H8	1.93	0.51
10:BA:152:U:O2'	10:BA:153:U:OP1	2.26	0.51
10:AA:1071:U:OP1	17:AH:71:LYS:NZ	2.44	0.51
10:BA:8:U:H5'	10:BA:9:U:OP2	2.11	0.51
14:BE:184:ILE:HB	14:BE:185:PRO:HD3	1.92	0.51
16:AG:32:TYR:O	16:AG:33:ILE:HD12	2.10	0.51
10:AA:71:U:HO2'	10:AA:72:G:P	2.32	0.51
10:BA:1752:U:O3'	10:BA:1753:A:H8	1.94	0.51
5:A5:89:ARG:NH1	5:A5:93:ASP:O	2.43	0.51
10:BA:1263:G:C8	10:BA:1263:G:O5'	2.63	0.51
10:BA:1277:U:H1'	10:BA:1286:U:C4	2.45	0.51
9:B9:146:UNK:O	9:B9:150:UNK:CG	2.51	0.51
13:AD:37:LYS:HB2	13:AD:38:ASN:OD1	2.11	0.51
10:AA:1366:G:N2	10:AA:1374:C:C2	2.79	0.51
10:BA:849:A:H2'	10:BA:850:G:C8	2.45	0.51
8:A8:30:TRP:HH2	15:BF:84:PHE:CE1	2.28	0.51
20:AK:46:ASP:OD1	20:AK:51:GLU:HB2	2.11	0.51
27:AR:146:ASN:O	27:AR:148:LEU:N	2.42	0.51
23:AN:29:LEU:O	23:AN:31:THR:N	2.43	0.51
27:AR:77:HIS:CG	27:AR:78:PHE:H	2.25	0.51
13:BD:8:THR:CG2	13:BD:9:SER:H	2.11	0.51
16:BG:99:THR:O	16:BG:101:ARG:N	2.42	0.51
10:BA:747:G:N2	10:BA:755:G:H1	2.08	0.51
2:B2:111:GLU:HA	2:B2:172:ILE:O	2.09	0.51
10:BA:90:U:H6	10:BA:90:U:O5'	1.92	0.51
10:AA:456:A:O2'	10:AA:457:G:H5'	2.11	0.51
10:BA:1360:U:O2'	10:BA:1361:A:H8	1.93	0.51
10:AA:290:A:C2'	10:AA:291:A:H5'	2.40	0.51
10:BA:222:U:O2'	10:BA:223:C:H5'	2.11	0.51
11:BB:139:PRO:HD3	35:BZ:47:VAL:HG21	1.91	0.51
11:BB:137:ASN:ND2	14:BE:54:PRO:HD3	2.25	0.51
7:B7:69:ASN:HD21	7:B7:71:GLU:CB	2.22	0.51
25:AP:26:LEU:C	25:AP:28:PRO:HD2	2.31	0.51
25:AP:51:ARG:HH22	25:AP:148:ALA:HB3	1.75	0.51
5:A5:26:CYS:SG	5:A5:28:ARG:HB2	2.49	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1693:A:O2'	10:BA:1694:U:H5'	2.10	0.51
10:BA:1385:U:C6	10:BA:1385:U:OP2	2.64	0.51
3:A3:157:GLN:HB2	3:A3:188:GLU:HA	1.92	0.51
20:AK:34:MET:HA	20:AK:98:ARG:HG3	1.90	0.51
28:AS:56:GLU:H	28:AS:56:GLU:CD	2.13	0.51
10:BA:595:A:H2'	10:BA:596:U:O4'	2.10	0.51
19:AJ:41:ARG:HH12	19:AJ:103:ASN:C	2.13	0.51
10:BA:352:C:C2	10:BA:375:G:N2	2.79	0.51
30:AU:44:VAL:HG21	30:AU:63:CYS:SG	2.50	0.51
7:A7:23:VAL:HG11	12:AC:78:LYS:HB3	1.91	0.51
4:B4:196:GLY:C	4:B4:198:ASP:H	2.13	0.51
32:BW:8:HIS:O	32:BW:30:ARG:HD2	2.11	0.51
27:BR:272:VAL:O	27:BR:278:VAL:HG13	2.11	0.51
35:AZ:25:ASP:O	35:AZ:27:TYR:N	2.43	0.51
13:AD:47:MET:O	13:AD:50:ALA:HB3	2.11	0.51
10:AA:537:A:O2'	10:AA:538:A:C5'	2.59	0.51
18:BI:44:GLN:CA	18:BI:47:GLN:HE21	1.98	0.51
10:BA:894:U:C5	10:BA:895:U:C5	2.98	0.51
17:BH:89:TRP:CE3	17:BH:93:ILE:HD11	2.46	0.51
10:BA:1712:C:H2'	10:BA:1713:G:O4'	2.09	0.51
8:B8:43:VAL:HG12	22:BM:57:ARG:HD2	1.92	0.51
12:BC:9:ASN:HD22	12:BC:12:LYS:CD	2.23	0.51
10:BA:928:C:H2'	10:BA:929:A:C8	2.45	0.51
35:AZ:13:MET:HE1	35:AZ:31:LYS:HD3	1.91	0.51
10:AA:1409:G:O5'	10:AA:1409:G:H8	1.92	0.51
23:AN:26:ARG:O	23:AN:30:ILE:HD11	2.09	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
31:BV:89:SER:C	31:BV:91:ILE:N	2.63	0.51
10:BA:955:A:C2	10:BA:956:A:N3	2.78	0.51
7:B7:9:LYS:HA	7:B7:45:LEU:HD11	1.90	0.51
10:AA:316:G:O4'	26:AQ:79:MET:CE	2.59	0.51
13:BD:8:THR:O	13:BD:9:SER:CB	2.58	0.51
28:AS:58:TYR:HB3	28:AS:88:MET:CE	2.40	0.51
13:AD:31:ILE:HG23	13:AD:36:LEU:HB2	1.92	0.51
2:A2:12:ARG:O	2:A2:13:ALA:C	2.49	0.51
10:BA:188:G:H2'	10:BA:189:C:H5''	1.91	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
27:BR:291:VAL:HG12	27:BR:292:CYS:N	2.25	0.51
32:AW:185:ILE:HG22	32:AW:226:ASN:O	2.11	0.51
32:BW:49:LYS:CE	32:BW:58:GLY:HA2	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AG:101:ARG:O	16:AG:103:PRO:CD	2.58	0.51
10:BA:1027:U:C2'	10:BA:1028:G:H5''	2.40	0.51
10:AA:782:A:O2'	32:AW:209:ILE:HD13	2.11	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
34:AY:90:GLY:O	34:AY:92:ARG:N	2.44	0.51
10:AA:1652:A:C2	34:AY:66:GLY:HA3	2.46	0.51
15:BF:26:ARG:HG3	15:BF:32:PHE:CE2	2.45	0.51
7:A7:12:ILE:HA	7:A7:15:GLN:NE2	2.25	0.51
10:BA:1352:A:O2'	10:BA:1353:G:O5'	2.26	0.51
9:A9:83:LYS:CG	9:A9:84:LYS:N	2.73	0.51
10:BA:1333:A:N7	10:BA:1334:U:C4	2.79	0.51
7:A7:69:ASN:HD21	7:A7:71:GLU:CB	2.20	0.51
25:BP:146:PHE:CD1	25:BP:147:VAL:N	2.79	0.51
10:BA:99:A:O2'	10:BA:299:C:N4	2.44	0.51
28:BS:15:GLY:N	28:BS:114:PHE:HE2	2.08	0.51
10:AA:1059:A:H2'	10:AA:1060:A:C8	2.45	0.51
10:BA:653:U:C2	10:BA:656:G:N2	2.79	0.51
25:BP:141:ASP:O	25:BP:145:ASN:ND2	2.43	0.51
19:AJ:27:ASN:HD21	19:AJ:29:LYS:HB2	1.75	0.51
10:AA:1073:G:OP1	17:AH:12:LYS:NZ	2.34	0.51
10:AA:3:C:H5'	10:AA:3:C:C6	2.40	0.51
10:BA:1080:G:O6	21:BL:22:GLN:OE1	2.28	0.51
14:BE:145:TRP:N	14:BE:153:HIS:HE1	2.06	0.51
10:AA:31:U:H3	10:AA:460:A:H2	1.57	0.51
10:BA:765:A:O2'	10:BA:766:G:P	2.69	0.51
6:A6:32:ASP:O	6:A6:77:PHE:HA	2.10	0.51
10:BA:1555:A:C2	10:BA:1557:U:O4	2.63	0.51
16:BG:62:PRO:O	16:BG:64:VAL:N	2.43	0.51
10:BA:1368:A:O2'	10:BA:1370:U:OP2	2.22	0.51
10:BA:424:A:O2'	10:BA:425:A:H5'	2.10	0.51
10:BA:74:A:N3	34:BY:179:ILE:CD1	2.73	0.51
10:AA:745:G:H2'	10:AA:746:A:C8	2.45	0.51
4:B4:94:VAL:HG13	4:B4:98:ASN:O	2.10	0.51
20:BK:31:CYS:HA	20:BK:43:HIS:O	2.09	0.51
10:BA:629:A:OP1	10:BA:630:A:OP2	2.29	0.51
10:BA:1568:C:O2'	10:BA:1570:U:H5	1.93	0.51
16:BG:157:ALA:O	16:BG:158:PHE:O	2.28	0.51
10:BA:1155:A:N1	28:BS:104:GLY:HA3	2.25	0.51
28:BS:127:THR:O	28:BS:127:THR:HG22	2.11	0.51
10:BA:798:G:O2'	10:BA:799:G:C5'	2.54	0.51
10:AA:150:A:N6	10:AA:409:G:C6	2.78	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:138:THR:O	22:AM:138:THR:HG22	2.10	0.51
20:AK:116:LEU:C	20:AK:116:LEU:CD2	2.79	0.51
10:AA:561:A:H2'	10:AA:562:G:O4'	2.11	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
4:A4:135:GLY:O	4:A4:136:TYR:HD1	1.94	0.51
14:BE:41:LYS:O	14:BE:42:ILE:CG1	2.52	0.51
5:B5:57:LEU:HG	5:B5:58:ALA:N	2.25	0.51
10:AA:1263:G:H5'	14:AE:120:LYS:HE3	1.91	0.51
2:B2:22:ARG:NH1	2:B2:25:ARG:NH1	2.53	0.51
32:AW:161:THR:HG23	32:AW:228:PHE:HE1	1.76	0.51
10:AA:1277:U:O2'	10:AA:1278:C:P	2.68	0.51
14:BE:69:LYS:HE2	14:BE:76:LYS:NZ	2.25	0.51
10:AA:1305:C:C1'	12:AC:165:GLN:HG3	2.40	0.51
10:BA:537:A:C2'	10:BA:538:A:OP2	2.59	0.51
10:AA:1064:A:O2'	10:AA:1065:A:H5''	2.10	0.51
10:BA:1517:A:OP1	22:BM:132:LYS:HA	2.10	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
10:AA:1148:G:H1'	10:AA:1167:C:HO2'	1.76	0.51
10:BA:1085:A:H4'	10:BA:1086:G:OP1	2.10	0.51
34:BY:57:ASP:C	34:BY:59:ASP:H	2.13	0.51
10:BA:101:A:H2'	10:BA:102:A:C8	2.46	0.51
10:AA:504:A:H5'	13:AD:171:ARG:HG2	1.93	0.51
9:A9:88:HIS:CD2	10:AA:1220:C:OP1	2.63	0.51
10:AA:854:G:H1'	10:AA:922:A:H1'	1.93	0.51
21:AL:106:LEU:HD21	21:AL:121:PHE:C	2.30	0.51
27:BR:83:ALA:HB1	27:BR:126:PHE:HB2	1.92	0.51
34:AY:166:LYS:HA	34:AY:171:LYS:O	2.10	0.51
33:AX:59:SER:O	33:AX:61:ASN:N	2.43	0.51
31:BV:82:LEU:O	31:BV:83:ASP:HB3	2.10	0.51
22:AM:39:GLY:O	22:AM:40:ARG:C	2.48	0.51
18:AI:12:PHE:O	18:AI:89:LYS:HD2	2.11	0.51
10:BA:1004:A:C2	10:BA:1745:G:C5	2.99	0.51
5:B5:37:LYS:NZ	10:BA:911:A:OP1	2.43	0.51
16:BG:52:GLN:HE22	16:BG:58:LYS:HE2	1.75	0.51
10:BA:1373:G:OP1	31:BV:4:VAL:HA	2.11	0.51
31:BV:25:THR:C	31:BV:31:ASN:HD21	2.13	0.51
10:BA:1286:U:O2'	10:BA:1287:U:OP2	2.28	0.51
10:BA:75:C:O5'	10:BA:75:C:C6	2.61	0.51
9:B9:159:UNK:O	9:B9:162:UNK:HG3	2.10	0.51
10:BA:1245:G:O2'	10:BA:1246:C:P	2.69	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1409:G:O5'	10:BA:1409:G:H8	1.93	0.51
10:BA:1507:U:O2'	10:BA:1508:G:P	2.69	0.51
13:BD:110:GLN:CD	13:BD:126:ARG:HG2	2.31	0.51
9:A9:144:ASP:O	9:A9:147:UNK:CG	2.47	0.51
17:BH:99:PHE:N	17:BH:99:PHE:CD1	2.79	0.51
2:B2:105:VAL:HB	2:B2:108:SER:OG	2.10	0.51
26:BQ:83:VAL:CG1	26:BQ:84:ILE:N	2.73	0.51
10:AA:616:A:O2'	10:AA:617:A:P	2.68	0.51
16:BG:22:VAL:HG12	16:BG:23:LYS:H	1.76	0.51
10:BA:1469:U:OP2	29:BT:77:SER:OG	2.27	0.51
5:B5:66:ILE:HG22	5:B5:67:PRO:O	2.09	0.51
3:B3:44:GLN:HG2	3:B3:45:VAL:N	2.25	0.51
26:AQ:17:LEU:HD23	26:AQ:20:LYS:NZ	2.25	0.51
12:AC:129:VAL:HG12	12:AC:134:ALA:HB2	1.92	0.51
27:AR:15:GLY:CA	27:AR:65:PHE:HB2	2.36	0.51
34:BY:71:GLY:HA2	34:BY:98:ARG:NH1	2.26	0.51
25:BP:98:LYS:HD3	25:BP:98:LYS:H	1.73	0.51
9:A9:85:LYS:CG	9:A9:86:THR:H	2.10	0.51
10:BA:272:U:C3'	10:BA:273:A:H5''	2.41	0.51
32:AW:163:LYS:HD2	32:AW:237:TRP:CZ3	2.45	0.51
12:AC:84:ASP:C	12:AC:86:GLN:N	2.62	0.51
25:BP:51:ARG:HH22	25:BP:148:ALA:HB3	1.76	0.51
10:BA:147:G:H1	10:BA:155:U:H3	1.57	0.51
10:BA:1590:C:O2'	10:BA:1591:C:H5''	2.11	0.51
10:BA:137:G:H2'	10:BA:138:G:C8	2.45	0.51
21:AL:42:PHE:HB3	21:AL:45:ALA:HB3	1.93	0.51
19:BJ:95:VAL:N	19:BJ:96:PRO:CD	2.73	0.51
19:AJ:18:ARG:O	19:AJ:18:ARG:HG3	2.10	0.51
10:AA:1050:C:H2'	10:AA:1051:G:H8	1.75	0.51
33:BX:59:SER:O	33:BX:61:ASN:N	2.44	0.51
33:AX:40:LEU:HA	33:AX:43:ARG:HG2	1.92	0.51
10:AA:542:G:H2'	10:AA:543:A:H8	1.74	0.51
10:AA:1467:U:H3	10:AA:1483:G:H1	1.58	0.51
9:A9:108:LYS:HA	30:AU:65:LYS:HE3	1.92	0.51
31:AV:34:ILE:O	31:AV:38:VAL:HG23	2.10	0.51
20:BK:110:PRO:C	20:BK:112:ALA:H	2.14	0.51
13:BD:83:TYR:HE2	13:BD:147:MET:HB3	1.76	0.51
3:B3:122:VAL:O	3:B3:125:ALA:HB3	2.11	0.51
10:BA:605:U:H1'	26:BQ:96:TYR:HA	1.93	0.51
10:BA:534:A:C3'	10:BA:535:A:H5'	2.15	0.51
34:AY:179:ILE:O	34:AY:179:ILE:HG22	2.10	0.51
6:A6:34:LYS:HD2	6:A6:76:ALA:HB3	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1027:U:O2'	10:AA:1028:G:H5''	2.10	0.51
10:BA:1454:A:O2'	10:BA:1455:A:H5'	2.11	0.51
34:BY:179:ILE:O	34:BY:180:GLN:C	2.49	0.51
34:BY:137:ARG:CG	34:BY:181:ARG:HG3	2.41	0.51
4:B4:66:ARG:NH1	20:BK:48:SER:OG	2.44	0.51
10:BA:1442:A:H5'	10:BA:1545:A:H62	1.76	0.51
20:AK:45:THR:HG21	20:AK:49:GLY:HA2	1.91	0.51
12:AC:35:ALA:HB2	12:AC:60:GLN:CG	2.40	0.51
3:A3:66:HIS:ND1	3:A3:67:PHE:N	2.59	0.51
10:AA:1572:A:N7	10:AA:1574:C:N4	2.58	0.51
23:AN:39:ARG:HH11	23:AN:39:ARG:HG2	1.76	0.51
11:BB:22:THR:CG2	11:BB:23:ILE:H	2.24	0.51
30:BU:102:SER:C	30:BU:103:LEU:HD23	2.30	0.51
30:BU:20:ASN:HD21	30:BU:27:LYS:NZ	2.08	0.51
27:AR:281:PHE:CD1	27:AR:281:PHE:N	2.79	0.51
2:B2:12:ARG:O	2:B2:13:ALA:C	2.49	0.51
2:B2:173:LEU:HB3	2:B2:191:LEU:CD1	2.40	0.51
16:BG:14:PHE:CD2	16:BG:89:LYS:HG3	2.45	0.51
10:BA:562:G:OP1	21:BL:69:LYS:HD2	2.10	0.51
5:B5:59:PHE:O	5:B5:60:GLU:O	2.28	0.51
10:AA:422:G:O2'	10:AA:423:G:H5'	2.11	0.51
10:AA:116:U:H3	32:AW:33:GLN:CD	2.14	0.51
21:AL:40:ASN:CB	21:AL:41:PRO:HD2	2.38	0.51
10:AA:1661:G:H1'	10:AA:1663:A:H62	1.74	0.51
10:BA:1187:C:C4	10:BA:1188:A:C6	2.99	0.51
10:AA:155:U:H4'	34:AY:83:CYS:HA	1.93	0.51
12:AC:84:ASP:O	12:AC:84:ASP:OD1	2.28	0.51
32:AW:150:ARG:HG2	32:AW:151:PHE:CD1	2.41	0.51
27:BR:212:HIS:HE1	27:BR:231:GLY:HA2	1.76	0.51
10:AA:726:U:O4	10:AA:727:U:C4	2.64	0.51
10:AA:968:C:O2'	20:AK:141:ARG:HG2	2.11	0.51
7:A7:91:THR:O	7:A7:91:THR:HG22	2.10	0.51
10:AA:830:G:H2'	10:AA:831:G:C8	2.45	0.51
19:BJ:38:ILE:HG13	19:BJ:104:PHE:HE2	1.76	0.51
13:AD:26:ASN:HA	13:AD:29:LYS:HG3	1.93	0.51
10:AA:207:U:H2'	10:AA:208:A:H8	1.75	0.51
10:BA:597:U:O2'	10:BA:598:A:H5'	2.10	0.51
32:AW:129:THR:HB	32:AW:142:VAL:HG12	1.92	0.51
19:AJ:25:CYS:HB3	19:AJ:31:VAL:HB	1.92	0.51
28:AS:47:ARG:O	28:AS:51:LYS:HB2	2.10	0.51
10:AA:1111:A:H2'	10:AA:1112:A:H8	1.76	0.51
14:BE:154:THR:CG2	14:BE:155:ILE:HG13	2.39	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:9:LYS:O	25:AP:21:LEU:HA	2.10	0.51
12:AC:9:ASN:C	12:AC:11:LYS:N	2.64	0.51
5:B5:34:LYS:NZ	10:BA:1744:U:C5	2.78	0.51
10:AA:932:G:C5'	24:AO:7:LYS:NZ	2.74	0.51
10:BA:1263:G:N2	10:BA:1296:G:N1	2.54	0.51
10:BA:280:U:H2'	10:BA:281:A:H8	1.76	0.51
9:B9:164:UNK:C	9:B9:167:UNK:HG3	2.41	0.51
21:BL:61:LYS:HD2	21:BL:117:PRO:HA	1.93	0.51
10:BA:1511:A:O2'	10:BA:1512:G:OP2	2.28	0.51
10:BA:1568:C:OP2	23:BN:18:LYS:NZ	2.41	0.51
10:AA:879:G:C6	10:AA:880:G:C6	2.99	0.51
16:BG:197:LYS:C	16:BG:200:ARG:HG2	2.31	0.51
13:BD:28:MET:HB3	33:BX:45:TYR:HD2	1.76	0.51
10:BA:1201:G:O2'	10:BA:1202:A:H8	1.94	0.51
27:AR:125:ALA:HB2	27:AR:168:VAL:HG23	1.93	0.51
10:BA:407:A:C4'	10:BA:408:C:OP2	2.50	0.51
10:BA:212:A:H1'	10:BA:239:A:N6	2.25	0.51
4:B4:108:ILE:CG2	4:B4:109:THR:H	2.17	0.51
8:B8:50:VAL:O	8:B8:54:ILE:HG13	2.11	0.51
2:B2:39:THR:HB	2:B2:69:CYS:HB3	1.91	0.51
21:BL:52:VAL:HG22	21:BL:71:VAL:HG11	1.91	0.51
10:AA:188:G:C4	10:AA:190:G:H1'	2.46	0.51
27:AR:297:GLU:H	27:AR:298:PRO:CD	2.24	0.51
26:BQ:70:ILE:HD11	26:BQ:136:PHE:CE1	2.46	0.51
34:BY:31:LYS:HE2	34:BY:68:MET:HE1	1.93	0.51
34:BY:153:PRO:CG	34:BY:154:ILE:H	2.21	0.51
4:A4:42:SER:O	4:A4:43:LYS:O	2.29	0.51
34:AY:64:LYS:NZ	34:AY:82:SER:N	2.57	0.51
10:BA:553:A:N6	12:BC:181:LYS:HB3	2.26	0.51
7:A7:11:ARG:O	7:A7:15:GLN:HG3	2.11	0.51
9:B9:131:ARG:NH1	9:B9:142:LYS:HB3	2.25	0.51
32:BW:222:THR:HG23	32:BW:223:ARG:N	2.25	0.51
10:BA:216:G:O2'	10:BA:217:A:H5'	2.10	0.51
8:A8:29:LYS:HZ1	10:AA:1509:U:H5'	1.76	0.51
22:BM:87:ASN:ND2	22:BM:99:GLN:NE2	2.57	0.51
10:AA:300:C:C6	10:AA:300:C:H5'	2.46	0.51
4:B4:117:ILE:HG22	4:B4:117:ILE:O	2.10	0.51
10:BA:1701:C:H2'	10:BA:1702:A:C5'	2.41	0.51
5:B5:45:VAL:HG12	5:B5:49:SER:HB3	1.93	0.51
1:B1:8:LYS:HG2	1:B1:56:GLU:OE1	2.11	0.51
19:BJ:41:ARG:HH12	19:BJ:103:ASN:C	2.14	0.51
17:BH:71:LYS:HG3	17:BH:128:PHE:HE1	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:AV:82:LEU:O	31:AV:83:ASP:HB3	2.11	0.51
10:BA:607:G:OP2	10:BA:1071:U:C6	2.64	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
29:AT:40:TRP:O	29:AT:41:THR:O	2.29	0.51
10:BA:764:U:N3	10:BA:766:G:C2	2.79	0.51
10:AA:427:A:C6	10:AA:428:A:C2	2.99	0.51
10:AA:1009:U:C4'	10:AA:1010:A:OP2	2.56	0.51
10:BA:1186:G:H5'	10:BA:1216:A:C2	2.46	0.51
10:AA:753:C:H2'	10:AA:754:A:H5'	1.91	0.51
10:AA:1531:G:C4	22:AM:134:ARG:HD2	2.46	0.51
34:BY:23:LYS:NZ	34:BY:43:ASP:OD2	2.42	0.51
10:AA:1174:A:H2'	10:AA:1175:A:C5'	2.33	0.51
23:AN:25:ALA:HB1	23:AN:27:GLN:OE1	2.10	0.51
10:BA:1201:G:O6	30:BU:30:HIS:HB3	2.10	0.51
27:AR:291:VAL:HG12	27:AR:292:CYS:N	2.26	0.51
3:B3:130:LEU:HD23	3:B3:130:LEU:N	2.26	0.51
10:AA:327:G:C2'	10:AA:328:G:C5'	2.82	0.51
10:BA:313:G:O2'	10:BA:314:A:P	2.69	0.51
26:BQ:12:GLN:O	26:BQ:53:VAL:HG13	2.11	0.51
10:AA:212:A:H1'	10:AA:239:A:N6	2.26	0.51
34:BY:132:LYS:HZ3	34:BY:163:ARG:HB2	1.75	0.51
11:BB:114:GLU:HB2	14:BE:32:LYS:HE3	1.92	0.51
10:AA:251:G:O2'	10:AA:252:U:H5'	2.11	0.51
10:BA:1551:U:H2'	10:BA:1552:U:H6	1.72	0.51
11:AB:56:ALA:HB2	11:AB:157:ILE:HD11	1.92	0.51
27:BR:312:CYS:HB3	27:BR:328:PHE:CZ	2.45	0.51
13:AD:42:VAL:O	13:AD:46:GLN:HG3	2.10	0.51
14:BE:74:GLU:C	14:BE:76:LYS:N	2.64	0.51
14:AE:27:TRP:HH2	14:AE:57:GLU:CD	2.14	0.51
10:BA:868:U:C2'	10:BA:869:A:C5'	2.85	0.51
10:AA:1674:A:H4'	34:AY:81:HIS:HE1	1.76	0.51
35:AZ:73:VAL:HG13	35:AZ:78:GLU:HB3	1.93	0.51
32:AW:57:ASN:O	32:AW:60:ASP:HB2	2.11	0.51
15:AF:26:ARG:HB2	15:AF:32:PHE:CE1	2.46	0.51
10:AA:1037:G:O2'	10:AA:1038:U:H5'	2.11	0.51
10:AA:584:C:H5''	33:AX:44:ARG:HH22	1.76	0.51
29:BT:9:THR:CG2	29:BT:10:VAL:H	2.24	0.51
34:BY:211:GLU:OE1	34:BY:211:GLU:HA	2.11	0.51
10:AA:971:A:H2'	10:AA:972:G:C5'	2.39	0.51
27:BR:275:ASP:CB	27:BR:311:GLN:HG2	2.41	0.51
10:BA:1703:A:H2'	10:BA:1704:C:H6	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B2:82:ARG:NH1	10:BA:254:A:H5'	2.25	0.51
28:BS:60:LYS:HD3	28:BS:64:LYS:HE3	1.93	0.51
12:AC:109:ASN:ND2	12:AC:178:VAL:HG13	2.25	0.51
3:A3:5:LYS:O	3:A3:6:PHE:CD1	2.64	0.51
16:AG:125:THR:HB	16:AG:130:ARG:NH2	2.25	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
17:AH:79:TYR:N	17:AH:79:TYR:CD1	2.79	0.51
10:BA:605:U:O2	10:BA:605:U:C2'	2.59	0.51
14:BE:176:GLY:O	14:BE:178:GLY:N	2.40	0.51
8:A8:39:VAL:HG13	8:A8:74:LYS:HE2	1.93	0.51
34:AY:131:ARG:NH2	34:AY:133:LEU:O	2.44	0.51
10:AA:765:A:O2'	10:AA:766:G:P	2.69	0.51
16:BG:72:MET:HE1	16:BG:81:LYS:HB2	1.93	0.51
10:BA:426:G:H21	10:BA:428:A:H3'	1.76	0.51
31:AV:5:ARG:CG	31:AV:10:LYS:HE2	2.40	0.51
26:BQ:117:LYS:HZ1	26:BQ:144:ASN:C	2.14	0.51
10:BA:1171:G:O2'	10:BA:1172:G:P	2.69	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
10:BA:670:G:H8	10:BA:670:G:C5'	2.24	0.51
15:BF:52:LYS:HE2	15:BF:59:ALA:H	1.76	0.51
12:BC:10:LYS:O	12:BC:14:PHE:HB2	2.11	0.51
10:BA:506:U:H5'	13:BD:131:GLN:HB3	1.93	0.51
30:AU:29:LEU:HD12	30:AU:55:TYR:CE2	2.46	0.51
11:AB:22:THR:CG2	11:AB:23:ILE:H	2.23	0.51
30:BU:76:ARG:O	30:BU:79:LEU:HB2	2.10	0.51
10:BA:617:A:O2'	10:BA:618:G:OP1	2.24	0.51
21:AL:55:LYS:HD3	21:AL:55:LYS:H	1.76	0.51
26:BQ:12:GLN:HG3	26:BQ:16:PHE:HE1	1.76	0.51
11:BB:56:ALA:HB2	11:BB:157:ILE:HD11	1.93	0.51
5:B5:58:ALA:HB2	20:BK:126:ILE:N	2.26	0.51
27:BR:281:PHE:HA	27:BR:290:PRO:HD2	1.92	0.51
32:BW:161:THR:HG23	32:BW:228:PHE:HE1	1.76	0.51
12:AC:119:ARG:HH12	14:AE:123:GLN:H	1.59	0.51
22:AM:50:LEU:HD22	22:AM:68:LYS:HB3	1.92	0.51
35:BZ:47:VAL:HG22	35:BZ:48:GLN:N	2.26	0.51
2:A2:63:PHE:CD1	2:A2:63:PHE:N	2.79	0.51
27:BR:33:GLN:NE2	27:BR:87:GLU:HA	2.26	0.51
2:A2:101:THR:HG22	2:A2:101:THR:O	2.11	0.51
12:BC:105:VAL:HG22	12:BC:189:VAL:CG2	2.40	0.51
10:BA:1728:U:O2'	10:BA:1729:A:H5'	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B9:113:GLN:HA	9:B9:127:LYS:CE	2.41	0.51
20:AK:101:GLY:CA	20:AK:133:THR:HG22	2.41	0.51
24:BO:98:LEU:CD1	24:BO:148:ALA:HB1	2.40	0.51
16:AG:191:GLU:O	16:AG:195:VAL:HG23	2.11	0.51
13:AD:83:TYR:HE2	13:AD:147:MET:HB3	1.76	0.51
10:BA:12:U:HO2'	10:BA:1271:G:HO2'	1.54	0.50
10:BA:605:U:H5'	10:BA:606:U:OP2	2.11	0.50
10:AA:75:C:OP1	34:AY:176:CYS:HB3	2.10	0.50
34:AY:137:ARG:CG	34:AY:181:ARG:HG3	2.40	0.50
10:AA:761:U:O2'	10:AA:762:U:H5''	2.11	0.50
10:AA:761:U:C5	10:AA:764:U:N3	2.79	0.50
10:BA:760:G:H21	10:BA:766:G:N2	2.05	0.50
10:AA:843:A:H2'	10:AA:844:G:C8	2.41	0.50
4:A4:119:LYS:HG2	4:A4:119:LYS:O	2.11	0.50
10:AA:1608:C:N4	10:AA:1610:G:N2	2.59	0.50
10:AA:1608:C:H4'	10:AA:1609:C:OP2	2.10	0.50
10:AA:981:A:O2'	10:AA:982:U:OP2	2.29	0.50
10:AA:752:C:O2'	10:AA:753:C:H5'	2.12	0.50
10:BA:794:A:C2	10:BA:836:G:C1'	2.93	0.50
10:AA:882:G:O6	10:AA:883:A:C2	2.64	0.50
27:AR:181:GLN:HG3	27:AR:183:PHE:CZ	2.46	0.50
23:BN:20:CYS:O	23:BN:21:ARG:C	2.49	0.50
34:AY:36:VAL:HB	34:AY:50:PHE:HB2	1.93	0.50
11:AB:5:ARG:NE	11:AB:176:ARG:HH21	2.09	0.50
10:AA:795:A:H4'	10:AA:796:U:C5'	2.40	0.50
10:BA:635:U:O2'	10:BA:636:G:H5'	2.11	0.50
10:AA:1606:C:C6	10:AA:1606:C:C3'	2.94	0.50
27:AR:241:ASP:OD2	27:AR:243:LEU:HB2	2.10	0.50
27:BR:266:LYS:O	27:BR:268:GLN:N	2.44	0.50
4:A4:90:VAL:HG23	4:A4:104:TYR:CG	2.46	0.50
10:AA:311:U:H5'	10:AA:312:C:C5'	2.34	0.50
27:BR:171:SER:HB3	27:BR:186:TYR:CZ	2.46	0.50
27:BR:169:ARG:O	27:BR:187:PHE:HB2	2.11	0.50
2:B2:105:VAL:HG13	10:BA:320:G:C4'	2.41	0.50
10:BA:315:U:O2'	26:BQ:79:MET:CE	2.59	0.50
32:AW:88:LEU:CD1	32:AW:104:LEU:HD23	2.41	0.50
12:AC:98:GLY:HA2	12:AC:104:GLN:NE2	2.26	0.50
10:AA:453:G:OP1	13:AD:3:LYS:HE3	2.11	0.50
18:BI:31:LEU:HD13	18:BI:38:ILE:CD1	2.37	0.50
10:BA:733:G:N2	10:BA:782:A:C6	2.72	0.50
13:AD:123:HIS:O	13:AD:124:HIS:C	2.47	0.50
29:BT:24:SER:HA	29:BT:27:LYS:HG3	1.92	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:BL:3:VAL:HG12	21:BL:4:GLY:N	2.21	0.50
34:AY:91:PHE:O	34:AY:92:ARG:C	2.48	0.50
10:AA:1319:U:O4'	10:AA:1489:U:O2	2.29	0.50
16:AG:96:HIS:O	16:AG:100:GLY:HA2	2.10	0.50
15:AF:26:ARG:HG3	15:AF:32:PHE:CE2	2.46	0.50
10:BA:787:A:O2'	17:BH:105:THR:HG23	2.11	0.50
10:BA:1164:C:H5''	10:BA:1165:A:H3'	1.93	0.50
7:B7:56:GLU:HB3	7:B7:67:TYR:CE1	2.46	0.50
8:A8:27:LYS:HD3	8:A8:27:LYS:H	1.75	0.50
1:B1:46:LYS:HE3	16:BG:140:ARG:HE	1.76	0.50
9:A9:121:PRO:HB2	30:AU:38:ALA:HA	1.92	0.50
4:A4:75:LEU:HB2	4:A4:79:SER:OG	2.10	0.50
3:A3:13:THR:O	3:A3:17:GLU:HG3	2.11	0.50
12:BC:180:PHE:C	12:BC:182:GLN:H	2.14	0.50
11:BB:203:LEU:HD22	11:BB:204:PRO:HD2	1.93	0.50
24:BO:8:GLY:O	24:BO:9:LYS:HB2	2.10	0.50
20:AK:30:VAL:HG22	20:AK:94:HIS:HB2	1.92	0.50
10:AA:605:U:H5'	10:AA:606:U:OP2	2.11	0.50
10:AA:1514:G:H5'	29:AT:90:GLY:HA3	1.93	0.50
12:AC:10:LYS:O	12:AC:14:PHE:HB2	2.12	0.50
24:BO:137:LEU:HD12	24:BO:138:PRO:CD	2.39	0.50
10:BA:762:U:C2'	10:BA:763:U:OP2	2.58	0.50
4:B4:161:TYR:HD1	4:B4:161:TYR:N	2.08	0.50
10:BA:1556:G:O2'	10:BA:1557:U:P	2.68	0.50
16:AG:197:LYS:O	16:AG:200:ARG:HG2	2.11	0.50
10:BA:425:A:N1	10:BA:426:G:C2	2.79	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
13:AD:126:ARG:NH1	13:AD:144:PRO:HB2	2.26	0.50
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
24:BO:5:GLN:HE22	24:BO:126:ARG:HH11	1.59	0.50
9:A9:126:ALA:HB1	10:AA:1223:U:O2'	2.11	0.50
8:B8:43:VAL:O	22:BM:2:SER:HB3	2.10	0.50
10:BA:1174:A:H2'	10:BA:1175:A:C5'	2.34	0.50
10:BA:1158:U:H4'	10:BA:1181:C:O4'	2.11	0.50
10:AA:1577:G:OP2	18:AI:129:LYS:HD3	2.12	0.50
13:BD:109:LEU:HD22	13:BD:141:VAL:CG1	2.41	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
31:BV:89:SER:O	31:BV:91:ILE:N	2.45	0.50
4:B4:27:SER:HA	20:BK:16:TYR:CE2	2.46	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1199:G:C2	10:BA:1228:A:N7	2.79	0.50
3:B3:126:LEU:HB2	3:B3:174:TYR:HE1	1.76	0.50
2:A2:7:SER:HB3	10:AA:327:G:H21	1.76	0.50
2:B2:75:TRP:NE1	2:B2:77:SER:HB2	2.27	0.50
10:AA:68:U:H4'	34:AY:169:LYS:NZ	2.25	0.50
10:BA:745:G:H2'	10:BA:746:A:C8	2.45	0.50
14:BE:32:LYS:O	14:BE:35:ARG:HB3	2.11	0.50
2:A2:114:SER:HA	2:A2:172:ILE:CD1	2.42	0.50
14:BE:27:TRP:CD1	14:BE:38:LYS:HD3	2.47	0.50
13:BD:116:LEU:C	13:BD:118:LEU:N	2.64	0.50
22:AM:119:ILE:CG2	28:AS:124:PHE:HE2	2.22	0.50
10:BA:782:A:H8	10:BA:782:A:H3'	1.75	0.50
10:BA:1361:A:H2'	10:BA:1362:U:C6	2.47	0.50
34:AY:97:VAL:CG1	34:AY:98:ARG:N	2.74	0.50
10:BA:1661:G:H1'	10:BA:1663:A:H62	1.76	0.50
10:AA:896:U:H2'	10:AA:897:A:H8	1.77	0.50
18:BI:88:SER:CB	18:BI:118:LEU:HB3	2.41	0.50
20:BK:103:VAL:HG12	20:BK:142:ARG:CG	2.40	0.50
2:B2:124:HIS:CE1	2:B2:152:LYS:HD3	2.46	0.50
34:AY:57:ASP:C	34:AY:59:ASP:H	2.13	0.50
10:BA:242:U:H2'	10:BA:244:A:OP2	2.11	0.50
32:AW:177:LEU:H	32:AW:177:LEU:CD2	2.24	0.50
10:BA:963:G:H2'	10:BA:963:G:N3	2.25	0.50
11:BB:96:SER:CB	11:BB:111:LYS:HZ3	2.24	0.50
10:BA:372:C:O2'	10:BA:373:C:H5'	2.11	0.50
15:BF:78:ARG:NH1	15:BF:100:GLY:CA	2.75	0.50
32:AW:117:SER:C	32:AW:119:GLU:H	2.15	0.50
4:A4:162:ALA:O	4:A4:163:LYS:C	2.50	0.50
6:A6:23:ILE:HG23	24:AO:20:PHE:CD2	2.46	0.50
14:BE:51:TYR:N	14:BE:51:TYR:CD1	2.79	0.50
2:B2:72:ASN:OD1	2:B2:81:THR:HG22	2.11	0.50
29:AT:19:ILE:HD13	29:AT:63:ALA:HB2	1.94	0.50
10:AA:19:A:O2'	10:AA:20:G:H5'	2.11	0.50
10:AA:1272:A:H4'	14:AE:87:VAL:HG13	1.93	0.50
14:BE:182:ALA:HB3	14:BE:185:PRO:HD3	1.92	0.50
10:BA:1473:G:H5''	29:BT:102:LYS:HZ2	1.76	0.50
10:AA:265:C:OP1	34:AY:180:GLN:OE1	2.28	0.50
10:AA:72:G:N3	10:AA:76:A:C2	2.80	0.50
12:AC:19:VAL:HG11	23:AN:21:ARG:NE	2.25	0.50
4:B4:119:LYS:HG2	4:B4:119:LYS:O	2.11	0.50
10:BA:1582:G:OP2	18:BI:77:THR:HG21	2.11	0.50
10:AA:1717:C:H3'	10:AA:1718:A:H5'	1.92	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:141:A:C8	10:BA:141:A:C3'	2.94	0.50
9:B9:129:TYR:HB2	9:B9:154:UNK:HB2	1.94	0.50
10:BA:840:A:HO2'	10:BA:841:A:P	2.34	0.50
10:BA:934:U:C2'	10:BA:935:G:H5'	2.41	0.50
26:BQ:73:LEU:HD11	26:BQ:119:GLY:C	2.32	0.50
17:AH:68:ARG:O	17:AH:68:ARG:HD3	2.11	0.50
27:AR:146:ASN:ND2	27:AR:150:GLU:HB2	2.09	0.50
11:AB:29:MET:O	11:AB:33:ILE:HG13	2.10	0.50
27:AR:114:PHE:N	27:AR:114:PHE:CD1	2.79	0.50
5:A5:58:ALA:HB3	20:AK:126:ILE:C	2.32	0.50
27:BR:102:LEU:HD12	27:BR:112:LYS:CB	2.39	0.50
30:AU:76:ARG:O	30:AU:79:LEU:HB2	2.11	0.50
4:B4:90:VAL:HG23	4:B4:104:TYR:CG	2.46	0.50
8:A8:46:GLU:OE1	8:A8:48:LYS:HD2	2.12	0.50
2:A2:87:LEU:CD2	2:A2:171:ARG:NH1	2.73	0.50
10:AA:91:G:OP2	32:AW:3:ARG:NH1	2.44	0.50
12:AC:125:ILE:O	12:AC:129:VAL:HG23	2.11	0.50
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
27:AR:334:ARG:NH1	27:AR:334:ARG:HG3	2.26	0.50
11:AB:4:GLN:HA	11:AB:7:GLN:CG	2.41	0.50
10:BA:1299:C:O2'	10:BA:1300:G:C5'	2.56	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
14:BE:45:LEU:HG	14:BE:49:PHE:HE2	1.77	0.50
34:BY:113:ILE:CD1	34:BY:124:LEU:HD13	2.41	0.50
10:AA:148:C:H4'	34:AY:108:VAL:CG2	2.41	0.50
12:BC:84:ASP:O	12:BC:84:ASP:OD1	2.29	0.50
10:BA:1256:C:O2'	10:BA:1257:U:OP2	2.27	0.50
7:B7:21:VAL:HG13	12:BC:75:PHE:CE1	2.46	0.50
10:AA:1256:C:HO2'	10:AA:1257:U:P	2.33	0.50
10:AA:1017:C:H2'	10:AA:1018:G:H5'	1.93	0.50
28:BS:60:LYS:NZ	28:BS:64:LYS:HE3	2.27	0.50
13:AD:83:TYR:HD2	13:AD:147:MET:HG3	1.76	0.50
8:B8:44:PHE:HB2	22:BM:4:VAL:HG21	1.92	0.50
29:AT:61:THR:HG23	29:AT:107:ALA:HB1	1.94	0.50
20:AK:76:GLN:O	20:AK:80:ASP:HB2	2.11	0.50
29:BT:110:SER:O	29:BT:114:LEU:HD23	2.11	0.50
10:AA:34:U:H5''	10:AA:34:U:H6	1.77	0.50
10:BA:53:C:H4'	25:BP:106:LYS:HD2	1.93	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:11:PHE:CZ	22:AM:25:LYS:HD3	2.46	0.50
10:AA:135:A:O2'	10:AA:136:U:P	2.69	0.50
10:AA:83:C:O2'	10:AA:163:A:N6	2.44	0.50
10:AA:58:G:O2'	10:AA:59:C:C6	2.64	0.50
10:BA:1008:A:H4'	10:BA:1009:U:OP2	2.11	0.50
10:BA:1611:C:C2'	10:BA:1612:C:H5'	2.41	0.50
6:A6:31:MET:HE1	6:A6:71:ILE:HD11	1.94	0.50
16:BG:81:LYS:O	16:BG:82:ALA:C	2.50	0.50
29:BT:15:ALA:CB	29:BT:66:ARG:NE	2.74	0.50
10:BA:1214:A:O2'	10:BA:1216:A:OP2	2.27	0.50
6:B6:31:MET:HE2	6:B6:71:ILE:HD11	1.94	0.50
10:BA:1572:A:C6	10:BA:1574:C:N3	2.79	0.50
10:BA:835:U:C2'	10:BA:836:G:H5'	2.42	0.50
20:AK:45:THR:CG2	20:AK:46:ASP:N	2.74	0.50
9:A9:131:ARG:NH1	9:A9:142:LYS:HB3	2.27	0.50
10:AA:125:U:O2'	10:AA:126:A:P	2.70	0.50
11:BB:181:LEU:HB3	35:BZ:60:ALA:HB2	1.93	0.50
28:BS:42:PHE:HE2	28:BS:118:GLY:HA2	1.75	0.50
28:BS:38:LEU:O	28:BS:42:PHE:HD1	1.93	0.50
2:A2:7:SER:HB3	10:AA:327:G:N2	2.26	0.50
26:BQ:17:LEU:HD12	26:BQ:31:VAL:HG13	1.92	0.50
4:A4:189:GLU:O	4:A4:193:ASN:ND2	2.44	0.50
33:BX:47:PRO:O	33:BX:51:ALA:HB2	2.10	0.50
2:A2:12:ARG:O	2:A2:14:THR:N	2.45	0.50
10:BA:537:A:N3	10:BA:537:A:OP1	2.43	0.50
34:BY:91:PHE:O	34:BY:92:ARG:C	2.50	0.50
29:BT:24:SER:O	29:BT:27:LYS:N	2.42	0.50
25:AP:16:LEU:HB3	25:AP:83:TYR:HD2	1.75	0.50
21:BL:75:LEU:HD11	21:BL:82:ILE:HD11	1.91	0.50
10:BA:1544:G:O5'	10:BA:1544:G:H8	1.94	0.50
10:BA:1654:U:H3	10:BA:1671:G:H1	1.59	0.50
24:BO:26:LYS:O	24:BO:28:LEU:N	2.44	0.50
2:A2:138:LEU:HD11	2:A2:153:ARG:HH12	1.75	0.50
24:BO:101:ARG:HH12	24:BO:145:ALA:CA	2.24	0.50
20:BK:101:GLY:CA	20:BK:133:THR:HG22	2.41	0.50
10:BA:123:A:C3'	10:BA:124:U:H6	2.25	0.50
10:BA:688:A:H2'	10:BA:689:A:H8	1.76	0.50
10:AA:173:A:C8	10:AA:173:A:H5'	2.46	0.50
10:AA:1505:C:H4'	38:AA:2462:HOH:O	2.10	0.50
10:AA:1265:U:H2'	10:AA:1266:G:C8	2.46	0.50
10:BA:1385:U:H2'	10:BA:1386:U:OP1	2.11	0.50
10:BA:525:U:C5'	25:BP:63:GLY:H	2.24	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:215:ILE:CD1	31:AV:15:SER:HB2	2.41	0.50
24:AO:107:ASN:C	24:AO:109:LYS:H	2.13	0.50
10:AA:1604:C:O5'	10:AA:1604:C:H6	1.93	0.50
34:AY:150:GLU:CD	34:AY:150:GLU:H	2.13	0.50
10:AA:1446:A:H2'	10:AA:1447:C:H6	1.76	0.50
10:AA:1111:A:H2'	10:AA:1112:A:C8	2.46	0.50
22:BM:41:ARG:NH2	29:BT:41:THR:O	2.44	0.50
10:AA:1454:A:O2'	10:AA:1455:A:H5'	2.11	0.50
10:AA:1584:U:C2'	10:AA:1585:U:H5'	2.42	0.50
10:AA:71:U:O2'	10:AA:72:G:P	2.70	0.50
35:BZ:40:PHE:HB3	35:BZ:42:ASN:H	1.76	0.50
10:BA:262:G:OP2	34:BY:198:LYS:HE3	2.11	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
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
35:AZ:40:PHE:HB3	35:AZ:42:ASN:H	1.75	0.50
3:A3:70:TYR:CE1	3:A3:96:ALA:HB2	2.47	0.50
10:AA:1401:U:H2'	38:AA:2395:HOH:O	2.12	0.50
11:BB:36:LYS:HG3	11:BB:42:HIS:CE1	2.47	0.50
30:BU:46:VAL:HG22	30:BU:59:VAL:HG11	1.93	0.50
10:BA:1313:G:O2'	10:BA:1314:C:H5'	2.12	0.50
10:BA:1466:C:C5'	10:BA:1466:C:H6	2.19	0.50
32:AW:193:ARG:NE	32:AW:220:PHE:CZ	2.80	0.50
7:B7:101:SER:OG	12:BC:52:ARG:NH2	2.44	0.50
11:BB:14:LEU:HD11	31:BV:102:THR:CG2	2.37	0.50
14:AE:74:GLU:C	14:AE:76:LYS:N	2.64	0.50
10:AA:1013:G:OP2	24:AO:11:LYS:NZ	2.38	0.50
30:BU:89:ASN:ND2	30:BU:90:ALA:N	2.53	0.50
19:BJ:21:ILE:HD11	19:BJ:91:LEU:HD11	1.94	0.50
21:AL:78:ASN:O	21:AL:79:SER:HB2	2.10	0.50
10:BA:976:A:N6	10:BA:982:U:OP2	2.45	0.50
9:B9:132:HIS:O	9:B9:140:THR:HA	2.10	0.50
7:B7:38:PRO:CB	7:B7:41:HIS:HD2	2.24	0.50
9:B9:108:LYS:HA	30:BU:65:LYS:CE	2.42	0.50
10:BA:1099:G:H2'	10:BA:1100:U:H6	1.77	0.50
6:A6:5:LEU:HB2	17:AH:24:GLN:HE21	1.74	0.50
10:BA:728:U:H2'	10:BA:729:U:C5'	2.42	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
12:AC:145:LEU:O	12:AC:146:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:A4:169:ALA:CB	4:A4:210:ILE:HD13	2.41	0.50
20:BK:30:VAL:O	20:BK:30:VAL:HG12	2.10	0.50
3:B3:167:LEU:HD11	3:B3:184:PHE:HB2	1.93	0.50
26:AQ:3:THR:HG21	26:AQ:51:THR:HB	1.93	0.50
10:AA:605:U:C2'	10:AA:605:U:O2	2.56	0.50
10:AA:3:C:H41	13:AD:16:ARG:HB2	1.77	0.50
14:BE:82:LEU:HD12	14:BE:212:LEU:HD13	1.93	0.50
10:AA:501:U:H5'	10:AA:501:U:H6	1.73	0.50
22:AM:60:LEU:O	22:AM:61:LEU:HD23	2.12	0.50
10:AA:1376:A:OP1	16:AG:55:LYS:HE2	2.11	0.50
10:AA:773:U:O2'	32:AW:250:ILE:HD11	2.11	0.50
4:A4:128:VAL:HG22	4:A4:175:ASN:CG	2.32	0.50
13:BD:71:PHE:CE2	32:BW:250:ILE:CG2	2.93	0.50
10:BA:1715:A:C3'	10:BA:1715:A:C8	2.94	0.50
10:BA:1717:C:H2'	10:BA:1718:A:C5'	2.41	0.50
10:BA:1453:C:H1'	18:BI:79:GLN:NE2	2.26	0.50
10:BA:882:G:O6	10:BA:883:A:C2	2.65	0.50
10:BA:894:U:O4'	10:BA:894:U:OP2	2.30	0.50
3:B3:142:ARG:HH21	17:BH:51:GLU:HB2	1.75	0.50
10:BA:840:A:H5'	17:BH:57:ARG:HG3	1.93	0.50
10:BA:1176:A:C5'	10:BA:1177:C:OP2	2.53	0.50
10:BA:1513:G:H2'	10:BA:1514:G:C1'	2.42	0.50
10:BA:798:G:O6	10:BA:835:U:O4	2.30	0.50
20:AK:45:THR:HG22	20:AK:46:ASP:N	2.24	0.50
18:AI:27:GLY:H	18:AI:65:LEU:HA	1.76	0.50
10:AA:794:A:C2	10:AA:836:G:C1'	2.94	0.50
30:BU:29:LEU:HD12	30:BU:55:TYR:CE2	2.47	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
27:AR:96:TRP:HB3	27:AR:120:GLU:HG2	1.93	0.50
10:AA:562:G:O2'	10:AA:563:C:H5'	2.12	0.50
10:BA:234:G:N1	10:BA:235:A:C2	2.80	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
32:BW:196:ILE:O	32:BW:212:VAL:HG12	2.11	0.50
32:AW:187:GLN:C	32:AW:191:ILE:HG22	2.31	0.50
27:BR:326:ALA:CB	27:BR:328:PHE:HE1	2.25	0.50
13:AD:45:VAL:CG1	13:AD:101:ILE:HG23	2.41	0.50
10:BA:572:U:H6	10:BA:572:U:O5'	1.95	0.50
10:BA:734:U:C2	10:BA:782:A:C2	2.99	0.50
10:BA:469:A:C6	10:BA:531:A:C2	2.99	0.50
10:BA:537:A:O2'	10:BA:538:A:C5'	2.60	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:734:U:C2	10:AA:782:A:C2	2.98	0.50
10:BA:458:U:H2'	10:BA:459:G:H5'	1.93	0.50
10:BA:39:A:C2	10:BA:461:C:C6	3.00	0.50
10:AA:1674:A:C2	10:AA:1675:A:C8	3.00	0.50
32:BW:57:ASN:ND2	32:BW:59:ARG:HB3	2.23	0.50
11:AB:31:ARG:CZ	35:AZ:81:ILE:HG13	2.42	0.50
2:B2:101:THR:HG22	2:B2:101:THR:O	2.12	0.50
17:AH:102:VAL:H	17:AH:113:HIS:CB	2.23	0.50
10:BA:1204:U:H2'	10:BA:1205:G:O4'	2.12	0.50
9:A9:84:LYS:HD3	10:AA:1185:C:OP1	2.12	0.50
20:BK:123:GLY:O	20:BK:124:MET:O	2.29	0.50
29:AT:116:ILE:HG23	29:AT:136:GLY:HA2	1.93	0.50
10:BA:1100:U:H2'	10:BA:1101:C:H5'	1.94	0.50
10:AA:100:A:H2'	38:AA:2115:HOH:O	2.12	0.50
7:A7:99:PHE:HZ	12:AC:69:HIS:HE2	1.60	0.50
27:BR:13:LYS:NZ	27:BR:295:GLU:HB3	2.27	0.50
31:AV:89:SER:C	31:AV:91:ILE:N	2.64	0.50
9:A9:136:LYS:HE3	10:AA:1226:U:OP1	2.12	0.50
28:BS:56:GLU:CD	28:BS:56:GLU:H	2.15	0.50
30:BU:44:VAL:HG21	30:BU:63:CYS:SG	2.52	0.50
7:A7:26:LYS:O	7:A7:26:LYS:HG2	2.12	0.50
10:AA:1147:U:H3	10:AA:1435:G:H1	1.59	0.50
22:AM:143:ARG:O	22:AM:144:HIS:HB2	2.12	0.50
34:AY:210:GLU:O	34:AY:214:LYS:HG3	2.12	0.50
10:BA:806:U:H2'	10:BA:807:C:C6	2.47	0.50
14:AE:206:ARG:O	14:AE:208:ARG:N	2.42	0.50
10:AA:1272:A:O3'	14:AE:87:VAL:CG1	2.60	0.50
14:BE:167:ARG:CB	14:BE:202:GLN:HB2	2.42	0.50
10:AA:1540:G:C2'	10:AA:1541:A:OP2	2.60	0.50
18:AI:17:ASN:H	18:AI:125:ARG:HH12	1.60	0.50
10:AA:85:G:C4	10:AA:444:A:C2	3.00	0.50
12:AC:9:ASN:HB2	12:AC:12:LYS:HB2	1.94	0.50
24:BO:136:LYS:O	24:BO:137:LEU:HB2	2.12	0.50
18:BI:44:GLN:HG3	18:BI:45:ILE:N	2.25	0.50
10:AA:1326:C:H6	10:AA:1326:C:H5'	1.76	0.50
5:A5:38:ARG:NH2	10:AA:1751:U:H5	2.09	0.50
10:BA:45:A:O2'	10:BA:46:A:P	2.70	0.50
13:AD:126:ARG:HA	13:AD:129:ILE:CD1	2.41	0.50
10:AA:639:C:H2'	10:AA:640:A:H8	1.77	0.50
10:AA:670:G:C8	10:AA:670:G:H5'	2.46	0.50
10:BA:1171:G:H1'	19:BJ:66:ARG:CZ	2.42	0.50
18:AI:26:PRO:CA	18:AI:65:LEU:HD22	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1409:G:C6	10:AA:1410:C:C4	3.00	0.50
10:AA:1177:C:C5	10:AA:1178:U:C2	2.99	0.50
10:AA:409:G:N3	10:AA:409:G:H3'	2.27	0.50
5:B5:46:ASP:CB	5:B5:47:PRO:HD2	2.28	0.50
4:B4:31:TRP:CE3	20:BK:18:PRO:HD3	2.47	0.50
10:AA:392:A:H3'	10:AA:393:C:C4'	2.42	0.50
27:AR:169:ARG:O	27:AR:187:PHE:HB2	2.12	0.50
5:A5:53:ILE:CG2	20:AK:116:LEU:HD21	2.41	0.50
32:BW:212:VAL:HG23	32:BW:220:PHE:HB3	1.93	0.50
32:BW:106:ASP:O	32:BW:192:GLY:HA3	2.12	0.50
16:AG:22:VAL:HG12	16:AG:23:LYS:H	1.76	0.50
11:BB:2:ALA:HB1	35:BZ:97:GLU:CB	2.42	0.50
14:AE:69:LYS:HE2	14:AE:76:LYS:NZ	2.26	0.50
18:AI:88:SER:HB3	18:AI:111:LEU:HD13	1.93	0.50
3:B3:152:ARG:HA	3:B3:183:THR:O	2.12	0.50
10:BA:1064:A:H2'	10:BA:1064:A:N3	2.25	0.50
4:A4:53:SER:HG	4:A4:59:ALA:HB2	1.77	0.50
32:BW:205:GLY:O	32:BW:206:SER:HB2	2.12	0.50
10:AA:155:U:H5''	34:AY:83:CYS:HA	1.94	0.50
2:A2:152:LYS:O	2:A2:155:LYS:HB3	2.12	0.50
32:AW:205:GLY:O	32:AW:206:SER:HB2	2.11	0.50
25:BP:147:VAL:O	25:BP:148:ALA:CB	2.59	0.50
9:A9:124:PHE:HD1	9:A9:124:PHE:N	2.08	0.50
27:AR:13:LYS:NZ	27:AR:295:GLU:HB3	2.27	0.50
10:AA:100:A:O2'	10:AA:101:A:OP1	2.28	0.50
19:BJ:42:ALA:O	19:BJ:48:VAL:HG11	2.12	0.50
10:AA:963:G:N3	10:AA:963:G:H2'	2.26	0.50
27:BR:140:ARG:O	27:BR:160:ASN:HB2	2.11	0.50
15:AF:21:ILE:HG12	15:AF:35:VAL:HG22	1.94	0.50
25:AP:141:ASP:O	25:AP:145:ASN:ND2	2.45	0.50
30:BU:113:THR:HG22	30:BU:115:ASP:H	1.76	0.50
35:BZ:15:GLY:O	35:BZ:16:LEU:C	2.50	0.50
10:BA:1151:G:H2'	10:BA:1152:C:C6	2.46	0.50
14:AE:81:VAL:HG11	14:AE:84:ILE:HD11	1.93	0.50
10:BA:359:U:H3	10:BA:364:G:H1	1.59	0.50
10:AA:533:G:N7	33:AX:28:ARG:HD2	2.27	0.50
22:AM:81:ILE:H	29:AT:40:TRP:HZ2	1.58	0.50
5:B5:90:CYS:HA	10:BA:1600:U:H5'	1.94	0.50
10:BA:1744:U:O2'	10:BA:1745:G:O5'	2.24	0.50
10:BA:1326:C:H5'	10:BA:1326:C:C6	2.47	0.50
6:B6:18:LYS:NZ	10:BA:936:U:C5'	2.72	0.50
10:BA:1246:C:OP2	10:BA:1399:G:OP2	2.30	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BY:23:LYS:CE	34:BY:41:LEU:HA	2.41	0.50
13:BD:109:LEU:HD22	13:BD:141:VAL:HG12	1.93	0.50
13:BD:37:LYS:HZ1	13:BD:126:ARG:HH11	1.58	0.50
13:BD:135:LYS:HG2	13:BD:140:LEU:HA	1.93	0.50
10:AA:1158:U:OP1	10:AA:1427:C:H1'	2.12	0.50
4:B4:26:LEU:HD12	20:BK:84:ARG:HH22	1.77	0.50
7:B7:12:ILE:HG22	7:B7:13:TYR:N	2.26	0.50
10:AA:494:A:H2'	10:AA:495:C:H4'	1.93	0.50
10:AA:562:G:P	21:AL:69:LYS:HD2	2.51	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
28:AS:91:ILE:CG2	28:AS:92:PRO:HD2	2.40	0.50
26:AQ:66:ARG:CG	26:AQ:66:ARG:NH1	2.70	0.50
2:A2:162:ASN:O	2:A2:166:GLN:HG2	2.12	0.50
32:BW:108:LYS:HG3	32:BW:110:ARG:NH2	2.22	0.50
10:AA:116:U:H3	32:AW:33:GLN:NE2	2.10	0.50
13:AD:45:VAL:HG11	13:AD:101:ILE:HG23	1.93	0.50
3:A3:84:LEU:HD12	3:A3:94:PHE:HZ	1.76	0.50
11:AB:32:TYR:HD2	11:AB:158:PRO:HG3	1.76	0.50
22:BM:54:PRO:HG2	22:BM:55:ASN:N	2.23	0.50
10:BA:787:A:C6	10:BA:788:U:C4	3.00	0.50
2:A2:155:LYS:O	2:A2:156:ALA:C	2.50	0.50
10:AA:1701:C:H2'	10:AA:1702:A:O4'	2.10	0.50
24:AO:80:ASN:C	24:AO:82:CYS:H	2.15	0.50
33:BX:59:SER:C	33:BX:61:ASN:H	2.15	0.50
12:BC:109:ASN:ND2	12:BC:178:VAL:HG13	2.27	0.50
21:AL:73:VAL:HG12	21:AL:74:LEU:N	2.26	0.50
16:AG:47:THR:C	16:AG:49:GLY:N	2.60	0.50
10:AA:1434:C:H2'	10:AA:1434:C:O2	2.11	0.50
14:BE:50:LYS:HE3	35:BZ:28:LEU:O	2.12	0.50
4:A4:69:GLU:HB2	4:A4:86:LYS:HE2	1.94	0.50
14:AE:185:PRO:CG	14:AE:211:PHE:CE2	2.95	0.50
14:BE:185:PRO:CG	14:BE:211:PHE:CE2	2.95	0.50
18:AI:15:LYS:HD3	18:AI:16:LYS:HG2	1.93	0.50
10:BA:1009:U:C4'	10:BA:1010:A:OP2	2.57	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:1718:A:C3'	10:AA:1719:A:H5'	2.41	0.50
10:BA:1367:C:C2'	10:BA:1368:A:H5'	2.42	0.50
31:BV:26:ASN:HD21	31:BV:62:GLN:NE2	2.09	0.50
34:BY:176:CYS:SG	34:BY:177:PRO:HD2	2.52	0.50
10:BA:1109:U:OP1	21:BL:61:LYS:HE3	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:6:ILE:HG22	13:AD:7:ASN:H	1.77	0.50
8:B8:60:VAL:HG13	8:B8:72:LYS:HG3	1.94	0.50
8:B8:39:VAL:CG1	8:B8:74:LYS:HE2	2.42	0.50
22:BM:18:LEU:HB2	22:BM:21:ASN:HD22	1.75	0.50
10:AA:879:G:C6	10:AA:880:G:N1	2.80	0.50
10:BA:930:A:O2'	10:BA:931:A:H5'	2.12	0.50
11:AB:181:LEU:HB3	35:AZ:60:ALA:HB2	1.94	0.50
9:A9:164:UNK:C	9:A9:167:UNK:HG3	2.42	0.50
3:A3:127:LEU:HG	3:A3:174:TYR:CZ	2.47	0.50
10:AA:798:G:O6	10:AA:835:U:O4	2.29	0.50
17:BH:68:ARG:O	17:BH:68:ARG:HD3	2.12	0.50
20:AK:53:LEU:HD13	20:AK:88:LEU:HD13	1.93	0.50
27:BR:206:ARG:HG2	27:BR:207:TYR:CD1	2.46	0.50
10:AA:683:A:C2'	10:AA:684:A:H5'	2.42	0.50
10:BA:1500:C:H5''	16:BG:86:LYS:HZ1	1.76	0.50
10:BA:1293:A:C4	11:BB:101:PRO:HB2	2.46	0.50
5:B5:54:GLN:O	5:B5:57:LEU:HB3	2.12	0.50
2:A2:105:VAL:HB	2:A2:108:SER:OG	2.11	0.50
35:AZ:47:VAL:HG12	35:AZ:74:ARG:CD	2.40	0.50
32:BW:42:LEU:HB2	32:BW:111:PHE:CE2	2.47	0.50
25:BP:55:VAL:CG2	25:BP:58:PHE:HE1	2.25	0.50
13:BD:45:VAL:HG21	13:BD:105:MET:CE	2.42	0.50
11:AB:2:ALA:HB1	35:AZ:97:GLU:CG	2.42	0.50
10:AA:783:U:H2'	10:AA:784:G:H8	1.77	0.50
10:BA:97:U:C2'	10:BA:98:U:H5'	2.37	0.50
24:AO:26:LYS:O	24:AO:28:LEU:N	2.45	0.50
34:AY:31:LYS:HE2	34:AY:68:MET:HE1	1.94	0.50
10:AA:1299:C:O2'	10:AA:1300:G:C5'	2.56	0.50
2:A2:115:THR:CB	2:A2:116:PRO:HD3	2.39	0.50
32:BW:163:LYS:HB3	32:BW:172:GLU:O	2.12	0.50
9:A9:103:LEU:HD11	30:AU:58:LEU:HD23	1.94	0.50
31:AV:98:ILE:HG23	31:AV:102:THR:CB	2.42	0.50
10:AA:124:U:C2'	10:AA:124:U:O2	2.60	0.50
30:AU:73:VAL:HG13	30:AU:74:PRO:HD2	1.91	0.50
10:AA:688:A:H2'	10:AA:689:A:C8	2.47	0.50
34:BY:131:ARG:NH2	34:BY:133:LEU:O	2.45	0.50
7:B7:100:ILE:CD1	12:BC:62:ILE:HD11	2.42	0.50
7:A7:24:LEU:HD12	7:A7:25:LYS:H	1.77	0.50
5:A5:62:GLU:O	5:A5:63:LYS:HB2	2.12	0.50
8:B8:99:ASN:O	8:B8:101:ASN:N	2.45	0.50
3:B3:33:LEU:O	3:B3:37:LEU:HB2	2.11	0.50
4:A4:217:THR:HG22	4:A4:218:ILE:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:533:G:H8	33:AX:28:ARG:NH1	2.10	0.49
4:A4:139:ARG:HH12	10:AA:862:A:H5'	1.76	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
5:B5:89:ARG:NH1	5:B5:93:ASP:O	2.45	0.49
10:AA:1042:G:H2'	10:AA:1043:U:O4'	2.12	0.49
4:B4:161:TYR:N	4:B4:161:TYR:CD1	2.80	0.49
27:BR:181:GLN:HG3	27:BR:183:PHE:CZ	2.47	0.49
10:BA:135:A:C2'	10:BA:136:U:OP2	2.60	0.49
10:AA:1373:G:OP1	31:AV:4:VAL:HA	2.12	0.49
17:BH:89:TRP:CD2	17:BH:125:ILE:HD11	2.46	0.49
10:BA:1508:G:C2	10:BA:1510:U:N3	2.80	0.49
22:BM:39:GLY:O	22:BM:40:ARG:C	2.50	0.49
11:AB:5:ARG:HH22	11:AB:12:ARG:NH2	2.07	0.49
10:BA:624:A:C8	10:BA:948:A:N6	2.80	0.49
27:AR:74:GLY:O	27:AR:75:HIS:O	2.30	0.49
10:BA:616:A:H4'	10:BA:617:A:C5'	2.31	0.49
27:BR:92:ILE:HG22	27:BR:93:SER:N	2.27	0.49
26:BQ:11:LYS:HB3	26:BQ:53:VAL:HB	1.94	0.49
4:B4:34:PHE:CE1	4:B4:89:LEU:HD12	2.45	0.49
10:AA:326:U:O2'	26:AQ:128:ARG:HD2	2.11	0.49
10:BA:422:G:O2'	10:BA:423:G:H5'	2.11	0.49
2:A2:192:GLU:HA	2:A2:196:LEU:HD22	1.94	0.49
26:AQ:12:GLN:HG3	26:AQ:16:PHE:HE1	1.76	0.49
27:BR:241:ASP:O	27:BR:245:LEU:CD2	2.59	0.49
32:BW:194:VAL:CG1	32:BW:230:LEU:HD23	2.42	0.49
16:AG:14:PHE:CD2	16:AG:89:LYS:HG3	2.46	0.49
10:BA:1305:C:O4'	12:BC:165:GLN:HG3	2.12	0.49
10:BA:460:A:C6	10:BA:589:G:N7	2.80	0.49
10:AA:1014:A:C2	10:AA:1015:C:N1	2.80	0.49
28:AS:121:LEU:HD12	28:AS:121:LEU:O	2.12	0.49
25:BP:16:LEU:HB3	25:BP:83:TYR:CD2	2.46	0.49
10:BA:1331:A:C2	10:BA:1334:U:H5	2.28	0.49
24:AO:101:ARG:HH12	24:AO:145:ALA:CA	2.23	0.49
10:AA:271:U:C4'	10:AA:272:U:OP2	2.59	0.49
12:AC:45:THR:C	12:AC:47:THR:N	2.65	0.49
10:AA:372:C:O2'	10:AA:373:C:H5'	2.11	0.49
15:BF:21:ILE:HG12	15:BF:35:VAL:HG22	1.94	0.49
10:AA:688:A:H2'	10:AA:689:A:H8	1.77	0.49
10:BA:148:C:C5'	34:BY:108:VAL:HG21	2.41	0.49
10:AA:348:G:O2'	10:AA:349:U:H5'	2.12	0.49
32:BW:117:SER:C	32:BW:119:GLU:H	2.15	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:184:ILE:CG2	12:BC:185:MET:N	2.75	0.49
16:AG:125:THR:HB	16:AG:130:ARG:CZ	2.42	0.49
10:BA:847:A:H4'	24:BO:92:PHE:CE2	2.47	0.49
26:AQ:52:TYR:O	26:AQ:52:TYR:CD1	2.65	0.49
21:BL:106:LEU:HD21	21:BL:121:PHE:C	2.31	0.49
16:BG:191:GLU:O	16:BG:195:VAL:HG23	2.12	0.49
10:AA:16:G:H2'	10:AA:17:C:H6	1.70	0.49
14:BE:144:TYR:HE1	35:BZ:24:ILE:HD12	1.76	0.49
10:AA:532:G:HO2'	10:AA:533:G:P	2.35	0.49
10:BA:1476:A:C2'	10:BA:1477:A:H5'	2.41	0.49
10:AA:132:U:H1'	34:AY:149:LYS:HZ1	1.77	0.49
10:AA:1486:U:H5''	10:AA:1487:A:O5'	2.11	0.49
10:AA:1418:C:O2'	10:AA:1419:G:OP1	2.29	0.49
9:B9:147:UNK:O	9:B9:151:UNK:HG3	2.11	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
10:AA:1199:G:C2	10:AA:1228:A:N7	2.80	0.49
10:BA:1158:U:OP1	10:BA:1427:C:O2'	2.17	0.49
10:BA:642:G:C6	10:BA:643:U:C4	3.01	0.49
3:A3:130:LEU:N	3:A3:130:LEU:HD23	2.27	0.49
10:AA:1252:C:H2'	10:AA:1253:G:C8	2.47	0.49
3:B3:102:SER:OG	3:B3:105:VAL:HB	2.12	0.49
10:BA:1200:G:O6	30:BU:76:ARG:CD	2.57	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:AA:1140:U:H5'	10:AA:1141:G:OP2	2.12	0.49
28:AS:66:ARG:HH12	28:AS:93:GLU:HB3	1.77	0.49
10:AA:1715:A:O2'	10:AA:1736:C:H5''	2.12	0.49
10:BA:752:C:O2'	10:BA:753:C:H5'	2.12	0.49
26:AQ:10:GLN:CA	26:AQ:10:GLN:OE1	2.59	0.49
11:AB:139:PRO:HD3	35:AZ:47:VAL:HG21	1.93	0.49
12:BC:125:ILE:O	12:BC:129:VAL:HG23	2.13	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:BW:44:LEU:O	32:BW:47:LEU:N	2.45	0.49
10:BA:55:U:O2'	10:BA:56:G:OP2	2.28	0.49
15:AF:44:TYR:O	15:AF:47:ILE:N	2.45	0.49
14:BE:46:ASP:OD2	35:BZ:26:ALA:HB1	2.11	0.49
9:A9:84:LYS:HZ2	10:AA:1185:C:P	2.34	0.49
34:AY:12:ALA:CB	34:AY:124:LEU:HA	2.42	0.49
29:AT:110:SER:O	29:AT:114:LEU:HD23	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BY:12:ALA:CB	34:BY:124:LEU:HA	2.41	0.49
29:BT:69:TYR:HA	29:BT:132:ILE:HG21	1.94	0.49
12:BC:45:THR:C	12:BC:47:THR:N	2.65	0.49
12:BC:45:THR:CG2	12:BC:46:PRO:HD2	2.42	0.49
10:AA:971:A:H62	10:AA:989:G:N2	2.07	0.49
11:BB:51:GLN:NE2	35:BZ:95:ILE:HB	2.26	0.49
11:AB:172:TRP:CD2	11:AB:195:VAL:HG22	2.47	0.49
11:BB:11:LYS:NZ	31:BV:115:PRO:HB2	2.27	0.49
10:BA:123:A:H3'	10:BA:124:U:H6	1.76	0.49
32:AW:249:THR:HB	32:AW:252:GLU:H	1.77	0.49
10:AA:100:A:O2'	10:AA:101:A:P	2.71	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
30:AU:115:ASP:O	30:AU:119:ILE:HG13	2.12	0.49
10:AA:93:C:H2'	10:AA:94:U:O4'	2.11	0.49
35:AZ:15:GLY:O	35:AZ:16:LEU:C	2.50	0.49
10:AA:9:U:O2	10:AA:11:A:H5''	2.13	0.49
10:BA:1069:U:O2'	10:BA:1070:U:P	2.70	0.49
10:BA:2:A:C2	10:BA:361:A:H1'	2.47	0.49
16:AG:158:PHE:O	16:AG:160:SER:N	2.36	0.49
29:BT:44:SER:HA	29:BT:100:HIS:ND1	2.27	0.49
29:AT:83:PHE:CZ	29:AT:85:SER:HB2	2.46	0.49
5:B5:5:ARG:HB2	5:B5:8:ALA:HA	1.94	0.49
18:AI:41:ILE:HD11	18:AI:50:ILE:HD12	1.92	0.49
1:A1:61:GLU:HG3	20:AK:121:ARG:HH11	1.77	0.49
10:BA:1531:G:C8	22:BM:134:ARG:HB2	2.48	0.49
31:AV:55:THR:O	31:AV:58:MET:HB2	2.11	0.49
26:AQ:73:LEU:HD11	26:AQ:119:GLY:C	2.33	0.49
9:A9:112:GLN:OE1	9:A9:112:GLN:HA	2.12	0.49
27:AR:96:TRP:HA	27:AR:120:GLU:HB3	1.93	0.49
10:AA:451:G:O2'	10:AA:452:A:OP2	2.26	0.49
10:BA:306:A:N9	10:BA:344:A:N6	2.61	0.49
10:AA:717:G:H3'	10:AA:718:A:C8	2.47	0.49
22:AM:94:ASP:CG	28:AS:16:LYS:HD2	2.33	0.49
2:B2:140:ASN:CG	10:BA:182:U:H3	2.15	0.49
10:BA:188:G:C4	10:BA:190:G:H1'	2.47	0.49
11:BB:70:MET:O	11:BB:118:LEU:HD12	2.11	0.49
26:AQ:9:TYR:O	26:AQ:10:GLN:HB2	2.12	0.49
2:B2:114:SER:HA	2:B2:172:ILE:CD1	2.42	0.49
10:BA:1027:U:O2'	10:BA:1028:G:H5''	2.12	0.49
10:BA:1359:C:O2	10:BA:1359:C:C2'	2.59	0.49
10:AA:734:U:C2	10:AA:782:A:H2	2.31	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:112:U:O2'	10:BA:324:A:H1'	2.12	0.49
10:AA:1204:U:H2'	10:AA:1205:G:O4'	2.13	0.49
17:BH:106:THR:HG23	17:BH:122:GLY:CA	2.42	0.49
25:BP:132:TRP:O	25:BP:136:GLN:HG2	2.12	0.49
10:BA:243:G:O4'	32:BW:204:GLN:HB2	2.12	0.49
11:BB:160:ASN:HD21	11:BB:162:ARG:CG	2.26	0.49
10:AA:1163:U:H2'	10:AA:1164:C:C6	2.47	0.49
10:BA:1406:G:O2'	10:BA:1407:A:OP2	2.26	0.49
10:AA:504:A:OP1	13:AD:175:LYS:HE3	2.12	0.49
10:AA:100:A:C2	10:AA:299:C:C4	3.00	0.49
19:BJ:22:THR:O	19:BJ:23:LEU:HD23	2.12	0.49
10:AA:550:G:OP1	33:AX:59:SER:HB3	2.12	0.49
24:BO:8:GLY:O	24:BO:9:LYS:CB	2.61	0.49
34:BY:215:PHE:CZ	34:BY:219:TRP:HB2	2.47	0.49
10:BA:1147:U:H3	10:BA:1435:G:H1	1.60	0.49
4:A4:47:LYS:NZ	20:AK:20:ASN:ND2	2.60	0.49
5:B5:62:GLU:O	5:B5:63:LYS:HB2	2.11	0.49
10:AA:1080:G:O5'	10:AA:1080:G:C8	2.57	0.49
10:AA:1069:U:C3'	14:AE:160:THR:HG21	2.35	0.49
4:A4:123:LEU:HD12	4:A4:124:ILE:H	1.77	0.49
10:AA:136:U:C2	10:AA:263:A:N6	2.81	0.49
22:AM:44:TYR:CE2	29:AT:49:LEU:HD21	2.47	0.49
10:BA:761:U:HO2'	10:BA:762:U:P	2.33	0.49
10:BA:761:U:O2'	10:BA:762:U:H5''	2.12	0.49
10:BA:760:G:N2	10:BA:766:G:N1	2.55	0.49
10:AA:849:A:H2'	10:AA:850:G:C8	2.47	0.49
17:AH:6:ILE:HA	17:AH:9:GLU:HB2	1.94	0.49
10:BA:1585:U:H5	16:BG:52:GLN:NE2	2.09	0.49
18:AI:44:GLN:HG3	18:AI:45:ILE:N	2.26	0.49
34:BY:149:LYS:O	34:BY:151:ASP:N	2.44	0.49
9:B9:155:UNK:O	9:B9:158:UNK:CG	2.42	0.49
10:AA:1360:U:O2'	10:AA:1361:A:H8	1.95	0.49
24:AO:98:LEU:CD1	24:AO:148:ALA:HB1	2.42	0.49
13:BD:38:ASN:HD22	13:BD:40:ARG:CD	2.25	0.49
3:A3:102:SER:HB2	3:A3:105:VAL:HG23	1.93	0.49
10:BA:1225:U:OP2	30:BU:30:HIS:CE1	2.65	0.49
27:AR:102:LEU:HD12	27:AR:112:LYS:CB	2.37	0.49
3:A3:144:ARG:HA	3:A3:144:ARG:NE	2.28	0.49
10:AA:477:G:N2	10:AA:496:G:H1'	2.28	0.49
2:B2:10:LYS:NZ	10:BA:328:G:O2'	2.41	0.49
10:AA:680:U:H2'	10:AA:681:G:C8	2.47	0.49
16:BG:99:THR:HG21	16:BG:101:ARG:HE	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:BG:19:TYR:CE2	16:BG:41:GLN:HA	2.47	0.49
10:BA:577:C:H2'	10:BA:577:C:O2	2.13	0.49
21:BL:69:LYS:NZ	21:BL:92:LEU:HB3	2.28	0.49
5:B5:67:PRO:HD3	20:BK:129:ILE:CD1	2.42	0.49
17:AH:89:TRP:CE3	17:AH:93:ILE:HD11	2.47	0.49
10:AA:246:U:H5''	10:AA:247:C:OP2	2.12	0.49
26:AQ:17:LEU:HD23	26:AQ:20:LYS:HZ1	1.77	0.49
8:B8:46:GLU:OE1	8:B8:48:LYS:HD2	2.13	0.49
13:AD:106:GLU:CA	13:AD:111:THR:HG21	2.35	0.49
11:BB:4:GLN:HA	11:BB:7:GLN:CG	2.42	0.49
10:AA:782:A:H3'	10:AA:782:A:C8	2.47	0.49
32:BW:57:ASN:O	32:BW:60:ASP:HB2	2.12	0.49
10:BA:223:C:H2'	10:BA:224:G:O4'	2.13	0.49
10:BA:1674:A:C2	10:BA:1675:A:C8	3.00	0.49
30:AU:20:ASN:HD21	30:AU:27:LYS:NZ	2.10	0.49
14:AE:45:LEU:HG	14:AE:49:PHE:HE2	1.77	0.49
7:A7:38:PRO:CG	7:A7:41:HIS:HD2	2.25	0.49
2:B2:126:GLY:O	2:B2:136:THR:HG23	2.13	0.49
11:AB:160:ASN:HD21	11:AB:162:ARG:CG	2.25	0.49
25:BP:119:ALA:O	25:BP:123:LEU:HD13	2.12	0.49
10:BA:371:U:O2'	10:BA:372:C:P	2.71	0.49
12:AC:146:LYS:NZ	12:AC:153:MET:CE	2.76	0.49
19:AJ:95:VAL:N	19:AJ:96:PRO:CD	2.76	0.49
10:BA:1687:C:H2'	10:BA:1688:C:H6	1.77	0.49
10:BA:806:U:H2'	10:BA:807:C:H6	1.77	0.49
4:A4:150:SER:O	4:A4:151:ALA:HB3	2.12	0.49
12:AC:5:THR:HG22	12:AC:6:ARG:N	2.27	0.49
32:AW:8:HIS:O	32:AW:30:ARG:HD2	2.13	0.49
9:B9:114:LYS:HG2	9:B9:115:GLY:N	2.28	0.49
10:BA:992:G:H2'	10:BA:993:U:O4'	2.12	0.49
12:AC:180:PHE:C	12:AC:182:GLN:H	2.16	0.49
10:AA:4:C:O2'	13:AD:17:ARG:NH2	2.45	0.49
10:BA:1070:U:OP2	10:BA:1070:U:H6	1.95	0.49
10:BA:1058:A:H2	10:BA:1114:G:N3	2.10	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
29:BT:38:THR:HG22	29:BT:56:TRP:CZ2	2.47	0.49
10:AA:932:G:H5'	24:AO:7:LYS:HZ1	1.75	0.49
20:AK:123:GLY:O	20:AK:124:MET:O	2.29	0.49
6:B6:62:CYS:HB3	6:B6:69:VAL:CG1	2.41	0.49
23:BN:28:GLY:O	23:BN:30:ILE:N	2.46	0.49
16:BG:133:ALA:HB2	16:BG:200:ARG:CB	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1119:G:N3	10:AA:1605:A:C2	2.81	0.49
10:AA:313:G:C6	10:AA:328:G:C2	3.00	0.49
27:AR:265:PRO:C	27:AR:266:LYS:HG3	2.32	0.49
10:AA:479:G:N2	10:AA:493:U:C2	2.80	0.49
2:B2:108:SER:O	2:B2:176:ILE:HG13	2.12	0.49
2:B2:33:ILE:HG23	10:BA:321:U:O2'	2.13	0.49
32:BW:91:VAL:HA	32:BW:101:PHE:O	2.12	0.49
10:AA:89:A:N7	10:AA:389:G:C5	2.80	0.49
11:AB:1:MET:CE	31:AV:111:TYR:HA	2.41	0.49
25:AP:83:TYR:N	25:AP:83:TYR:HD1	2.10	0.49
14:AE:233:LYS:CD	14:AE:234:PRO:HD2	2.42	0.49
18:AI:88:SER:CB	18:AI:118:LEU:HB3	2.42	0.49
27:AR:274:THR:HG23	27:AR:276:GLN:H	1.78	0.49
19:BJ:20:ARG:NH1	19:BJ:90:ASP:OD1	2.46	0.49
10:BA:1660:A:N6	10:BA:1661:G:O6	2.45	0.49
11:AB:134:SER:HB3	11:AB:152:TYR:CD2	2.47	0.49
8:B8:30:TRP:O	8:B8:31:THR:CB	2.60	0.49
34:AY:9:LEU:N	34:AY:9:LEU:HD23	2.22	0.49
29:BT:119:LYS:HE2	29:BT:130:ARG:NH1	2.27	0.49
22:AM:130:GLY:O	22:AM:131:LEU:HD23	2.12	0.49
10:BA:688:A:H2'	10:BA:689:A:C8	2.47	0.49
10:AA:1678:U:H2'	10:AA:1679:A:C8	2.48	0.49
27:BR:174:MET:HE1	27:BR:178:ASN:HB2	1.94	0.49
14:BE:168:ILE:HD12	14:BE:215:THR:N	2.27	0.49
12:AC:146:LYS:HZ1	12:AC:153:MET:HE3	1.78	0.49
11:AB:168:SER:HB2	11:AB:198:PHE:HB2	1.94	0.49
31:AV:103:LYS:CE	31:AV:118:VAL:HG21	2.42	0.49
33:AX:59:SER:C	33:AX:61:ASN:H	2.15	0.49
1:A1:55:LEU:HD11	16:AG:136:VAL:O	2.13	0.49
7:B7:26:LYS:O	7:B7:26:LYS:HG2	2.12	0.49
7:A7:30:GLY:O	7:A7:39:ASN:ND2	2.46	0.49
35:AZ:17:ILE:HG22	35:AZ:21:LYS:HA	1.94	0.49
29:AT:29:ALA:CB	29:AT:31:LYS:HE3	2.42	0.49
10:BA:1547:G:O2'	10:BA:1548:A:H5'	2.13	0.49
10:BA:3:C:H1'	14:BE:181:ALA:C	2.33	0.49
14:BE:178:GLY:HA2	14:BE:196:ASP:HA	1.95	0.49
10:AA:1507:U:O2'	10:AA:1508:G:P	2.69	0.49
10:AA:1474:G:H5''	29:AT:102:LYS:HE2	1.93	0.49
10:AA:1122:G:H1	10:AA:1600:U:H3	1.60	0.49
10:BA:1367:C:H2'	10:BA:1368:A:H5'	1.94	0.49
10:BA:1296:G:C6	10:BA:1297:A:N7	2.81	0.49
10:BA:132:U:C1'	34:BY:149:LYS:HZ3	2.25	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:751:U:O2	13:AD:143:VAL:HG11	2.13	0.49
6:B6:32:ASP:O	6:B6:77:PHE:HA	2.12	0.49
10:BA:849:A:H61	10:BA:933:A:N6	2.09	0.49
26:AQ:117:LYS:HD3	26:AQ:120:ASP:OD2	2.13	0.49
8:B8:43:VAL:HG23	22:BM:25:LYS:HE3	1.93	0.49
10:BA:1540:G:O2'	10:BA:1541:A:OP2	2.31	0.49
23:BN:29:LEU:O	23:BN:31:THR:N	2.46	0.49
1:B1:7:THR:HG21	1:B1:31:LEU:HD22	1.94	0.49
8:A8:31:THR:O	8:A8:32:LYS:C	2.51	0.49
10:AA:835:U:C2'	10:AA:836:G:H5'	2.42	0.49
11:BB:23:ILE:HA	11:BB:42:HIS:CD2	2.48	0.49
11:AB:25:LEU:CD2	11:AB:33:ILE:HD13	2.30	0.49
11:AB:23:ILE:HA	11:AB:42:HIS:CD2	2.47	0.49
10:BA:1228:A:H2'	10:BA:1228:A:N3	2.28	0.49
4:A4:34:PHE:CE1	4:A4:89:LEU:HD12	2.48	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
3:A3:144:ARG:HH12	35:AZ:3:SER:HB3	1.76	0.49
10:BA:717:G:H3'	10:BA:718:A:C8	2.47	0.49
2:B2:12:ARG:O	2:B2:15:GLY:N	2.46	0.49
10:AA:685:A:H2	10:AA:716:G:O6	1.95	0.49
10:AA:216:G:O2'	10:AA:217:A:H5'	2.12	0.49
28:AS:13:PHE:O	28:AS:14:ARG:HD3	2.13	0.49
17:AH:17:ALA:CB	17:AH:22:LYS:HD2	2.43	0.49
33:AX:66:LYS:O	33:AX:70:MET:HB2	2.13	0.49
32:BW:88:LEU:HD11	32:BW:184:TYR:CE2	2.38	0.49
10:AA:1046:G:C2	10:AA:1047:C:C5	3.01	0.49
10:AA:193:C:H2'	10:AA:194:G:H8	1.78	0.49
26:BQ:87:ARG:NH1	26:BQ:104:ARG:NH1	2.59	0.49
10:AA:785:G:HO2'	10:AA:786:A:H8	1.61	0.49
34:BY:153:PRO:O	34:BY:156:ILE:N	2.46	0.49
10:AA:1660:A:N6	10:AA:1661:G:O6	2.45	0.49
10:AA:1299:C:H2'	10:AA:1300:G:H8	1.77	0.49
10:BA:527:A:H5''	13:BD:168:ARG:HH22	1.78	0.49
29:AT:21:GLU:HG3	29:AT:147:ILE:HD11	1.95	0.49
10:BA:1252:C:H2'	10:BA:1253:G:C8	2.45	0.49
20:BK:78:ALA:HB1	20:BK:119:LEU:CD1	2.43	0.49
3:A3:152:ARG:HA	3:A3:183:THR:O	2.13	0.49
10:AA:1310:C:H1'	10:AA:1381:A:C5	2.47	0.49
9:B9:109:VAL:HG11	30:BU:62:LEU:CD2	2.43	0.49
10:BA:1471:C:P	29:BT:130:ARG:NH2	2.86	0.49
7:A7:47:ARG:HA	7:A7:50:LYS:HG2	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:150:ARG:HG2	32:BW:151:PHE:CD1	2.44	0.49
15:AF:78:ARG:HH12	15:AF:100:GLY:CA	2.24	0.49
31:AV:77:GLU:C	31:AV:79:GLU:H	2.16	0.49
10:BA:1017:C:H2'	10:BA:1018:G:H5'	1.93	0.49
10:BA:1265:U:H2'	10:BA:1266:G:C8	2.48	0.49
10:AA:1059:A:N6	10:AA:1060:A:N6	2.61	0.49
11:BB:198:PHE:CD1	11:BB:198:PHE:N	2.80	0.49
9:A9:114:LYS:HG2	9:A9:115:GLY:N	2.27	0.49
12:AC:207:THR:HG23	12:AC:208:PRO:HD2	1.95	0.49
20:BK:76:GLN:O	20:BK:80:ASP:HB2	2.11	0.49
21:BL:87:PRO:O	21:BL:88:MET:O	2.30	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
17:AH:79:TYR:H	17:AH:79:TYR:HD1	1.60	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
10:AA:469:A:C6	10:AA:531:A:C2	3.01	0.49
8:A8:39:VAL:CG1	8:A8:74:LYS:HE2	2.43	0.49
10:AA:758:A:C2	10:AA:769:C:O2	2.66	0.49
10:BA:1123:G:N3	10:BA:1721:G:C8	2.81	0.49
5:A5:13:LYS:CG	10:AA:912:A:H1'	2.42	0.49
10:BA:141:A:C8	10:BA:141:A:H3'	2.47	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:1531:G:C2'	10:BA:1532:U:OP1	2.61	0.49
10:BA:873:G:H22	20:BK:55:ARG:HH21	1.61	0.49
10:AA:644:U:C4	10:AA:645:C:N4	2.81	0.49
24:AO:117:LEU:HD21	24:AO:121:GLU:CD	2.33	0.49
10:AA:796:U:H2'	10:AA:797:A:C4'	2.41	0.49
10:AA:1171:G:C6	23:AN:29:LEU:HD22	2.47	0.49
30:BU:26:SER:HB3	30:BU:31:GLU:CG	2.43	0.49
27:AR:102:LEU:HG	27:AR:114:PHE:HE1	1.78	0.49
27:AR:109:THR:HG22	27:AR:110:THR:N	2.27	0.49
27:AR:8:ASP:OD1	27:AR:9:ILE:N	2.45	0.49
26:BQ:18:ASN:N	26:BQ:18:ASN:HD22	2.10	0.49
4:B4:89:LEU:HB3	4:B4:101:THR:HG22	1.90	0.49
10:BA:181:G:N2	10:BA:194:G:C4	2.81	0.49
10:AA:246:U:H2'	26:AQ:62:ASN:ND2	2.28	0.49
10:AA:318:U:H4'	26:AQ:11:LYS:HZ2	1.76	0.49
2:B2:198:PHE:CD1	26:BQ:5:ILE:HG12	2.48	0.49
32:BW:127:LYS:O	32:BW:143:THR:HG23	2.13	0.49
27:BR:334:ARG:HG3	27:BR:334:ARG:NH1	2.25	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:419:C:H5''	13:AD:1:MET:HE1	1.95	0.49
32:AW:70:GLN:CG	32:AW:80:ARG:HH21	2.21	0.49
10:AA:572:U:C4'	10:AA:573:A:H5'	2.40	0.49
10:BA:572:U:C4'	10:BA:573:A:H5'	2.42	0.49
10:AA:1318:C:O2'	10:AA:1319:U:P	2.71	0.49
31:AV:112:GLN:HG3	31:AV:113:ASN:H	1.76	0.49
14:AE:45:LEU:N	14:AE:64:PHE:HE2	2.11	0.49
10:BA:1310:C:H1'	10:BA:1381:A:C5	2.48	0.49
2:B2:78:GLU:HB2	2:B2:80:ILE:CD1	2.43	0.49
8:A8:27:LYS:CE	10:AA:1509:U:H5	2.25	0.49
10:AA:155:U:H5''	34:AY:83:CYS:CA	2.42	0.49
24:BO:49:PRO:HG3	24:BO:74:LEU:CD2	2.42	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
4:A4:131:LYS:NZ	4:A4:137:ILE:HG12	2.28	0.49
10:BA:1678:U:H2'	10:BA:1679:A:C8	2.47	0.49
10:AA:1085:A:H4'	10:AA:1086:G:OP1	2.08	0.49
31:AV:103:LYS:HD2	31:AV:118:VAL:HG21	1.95	0.49
12:AC:211:ASP:O	12:AC:213:VAL:N	2.45	0.49
30:AU:100:CYS:O	30:AU:101:SER:OG	2.27	0.49
10:BA:411:U:O2'	10:BA:412:U:H5'	2.13	0.49
10:AA:888:C:H5'	10:AA:888:C:H6	1.78	0.49
10:AA:603:U:H3	21:AL:25:ALA:HB3	1.76	0.49
17:AH:77:PRO:O	17:AH:78:ARG:HB2	2.12	0.49
10:AA:1558:A:H2'	10:AA:1559:A:H5'	1.95	0.49
10:BA:1558:A:C5	10:BA:1583:A:C6	3.01	0.49
18:AI:42:ASN:HB3	18:AI:43:PRO:CD	2.41	0.49
29:BT:147:ILE:O	29:BT:151:GLN:HG3	2.13	0.49
10:AA:1610:G:C6	10:AA:1611:C:C2	3.01	0.49
10:AA:1744:U:O2'	10:AA:1745:G:O5'	2.28	0.49
10:BA:644:U:C4	10:BA:645:C:N4	2.81	0.49
13:BD:126:ARG:HA	13:BD:129:ILE:CD1	2.42	0.49
10:AA:795:A:H5''	10:AA:796:U:OP2	2.12	0.49
10:AA:1428:C:OP1	38:AA:2444:HOH:O	2.19	0.49
27:BR:146:ASN:ND2	27:BR:150:GLU:HB2	2.10	0.49
5:A5:46:ASP:OD1	20:AK:113:GLN:OE1	2.30	0.49
20:BK:54:VAL:HG11	20:BK:81:VAL:CG1	2.31	0.49
10:BA:409:G:H3'	10:BA:409:G:N3	2.28	0.49
27:BR:96:TRP:HB3	27:BR:120:GLU:HG2	1.94	0.49
10:BA:246:U:H4'	10:BA:247:C:OP2	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:343:C:O2'	10:BA:344:A:OP2	2.29	0.49
2:B2:194:LYS:HD3	26:BQ:12:GLN:NE2	2.27	0.49
10:AA:905:C:H1'	20:AK:138:ASP:HB2	1.95	0.49
16:BG:14:PHE:HD2	16:BG:17:TRP:HZ3	1.61	0.49
31:BV:29:HIS:HA	31:BV:32:LYS:CD	2.34	0.49
14:BE:35:ARG:NH2	14:BE:252:ALA:H	2.09	0.49
12:AC:74:GLN:HA	12:AC:77:GLN:HE21	1.78	0.49
12:BC:74:GLN:HA	12:BC:77:GLN:HE21	1.77	0.49
26:AQ:21:LYS:C	26:AQ:23:LEU:H	2.16	0.49
4:B4:107:ASP:OD1	4:B4:108:ILE:N	2.29	0.49
13:AD:45:VAL:HG21	13:AD:105:MET:CE	2.42	0.49
10:BA:66:A:H2'	10:BA:67:G:C5'	2.35	0.49
27:AR:312:CYS:HB3	27:AR:328:PHE:CZ	2.48	0.49
13:AD:112:ARG:HD2	13:AD:153:GLU:OE2	2.13	0.49
34:AY:153:PRO:O	34:AY:156:ILE:N	2.46	0.49
27:AR:276:GLN:C	27:AR:294:ILE:HG23	2.33	0.49
15:AF:27:ARG:O	15:AF:29:ARG:N	2.46	0.49
19:AJ:20:ARG:NH1	19:AJ:90:ASP:OD1	2.45	0.49
10:BA:271:U:C4'	10:BA:272:U:OP2	2.60	0.49
12:AC:45:THR:CG2	12:AC:46:PRO:HD2	2.42	0.49
30:BU:16:ILE:HD12	30:BU:82:TYR:CD2	2.45	0.49
21:AL:56:ILE:CG2	21:AL:57:GLY:N	2.76	0.49
10:AA:1644:C:H2'	10:AA:1645:C:C6	2.48	0.49
27:BR:174:MET:HE3	27:BR:178:ASN:HB2	1.93	0.49
10:BA:1385:U:C2'	10:BA:1386:U:OP1	2.60	0.49
10:AA:1621:G:C4	10:AA:1705:A:C2	3.01	0.49
12:AC:141:ILE:HG22	12:AC:185:MET:CE	2.42	0.49
10:BA:463:A:C2	10:BA:464:G:C8	3.00	0.49
12:BC:20:PHE:O	12:BC:23:GLU:HB2	2.13	0.49
10:AA:1687:C:H2'	10:AA:1688:C:C6	2.48	0.49
32:BW:174:PHE:O	32:BW:175:ALA:HB2	2.12	0.49
10:AA:352:C:C2	10:AA:375:G:N2	2.81	0.49
10:BA:1343:G:C2'	10:BA:1344:U:OP1	2.61	0.49
10:AA:546:G:H2'	10:AA:547:C:H5	1.76	0.49
10:BA:12:U:O2'	10:BA:1271:G:H1'	2.12	0.49
10:BA:1069:U:O2'	14:BE:169:ARG:NE	2.45	0.49
10:AA:460:A:C6	10:AA:589:G:N7	2.79	0.49
8:A8:65:THR:O	8:A8:67:SER:N	2.46	0.49
10:AA:1444:U:O4	16:AG:74:HIS:HB2	2.12	0.49
10:AA:1555:A:C2	10:AA:1557:U:O4	2.66	0.49
10:BA:769:C:H3'	10:BA:769:C:C6	2.48	0.49
10:BA:771:A:H5''	10:BA:772:A:H5'	1.92	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A6:68:LYS:CD	10:AA:1027:U:OP1	2.61	0.49
10:AA:1608:C:N3	10:AA:1610:G:N3	2.60	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
31:BV:58:MET:CE	31:BV:61:ILE:HD12	2.42	0.49
10:BA:1507:U:O2'	10:BA:1508:G:O5'	2.26	0.49
11:AB:180:ILE:HG12	11:AB:185:LEU:HD23	1.94	0.49
20:BK:88:LEU:O	20:BK:89:LYS:HB2	2.12	0.49
9:B9:112:GLN:OE1	9:B9:112:GLN:HA	2.12	0.49
4:A4:89:LEU:HB3	4:A4:101:THR:HG22	1.92	0.49
27:BR:144:LEU:HD12	27:BR:145:TRP:N	2.28	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
29:AT:79:LEU:HB2	29:AT:104:LEU:HD21	1.95	0.49
12:AC:77:GLN:O	12:AC:81:GLY:CA	2.60	0.49
10:BA:1140:U:H5'	10:BA:1141:G:OP2	2.13	0.49
2:A2:110:VAL:CG1	2:A2:111:GLU:H	2.16	0.49
2:A2:39:THR:O	2:A2:39:THR:HG22	2.12	0.49
27:BR:289:ALA:N	27:BR:290:PRO:HD3	2.28	0.49
27:BR:164:TRP:CD1	27:BR:164:TRP:N	2.79	0.49
27:AR:326:ALA:CB	27:AR:328:PHE:HE1	2.26	0.49
10:BA:985:C:C2	10:BA:986:G:C8	3.01	0.49
10:BA:867:U:H2'	10:BA:868:U:O4'	2.13	0.49
10:AA:783:U:H2'	10:AA:784:G:C8	2.48	0.49
10:BA:457:G:O2'	10:BA:458:U:H5'	2.12	0.49
17:BH:102:VAL:H	17:BH:113:HIS:CB	2.22	0.49
2:B2:155:LYS:O	2:B2:156:ALA:C	2.51	0.49
27:AR:239:ILE:HD11	27:AR:270:VAL:HG21	1.94	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
2:A2:136:THR:HG21	2:A2:153:ARG:NH1	2.28	0.49
10:AA:1517:A:OP1	22:AM:133:VAL:N	2.39	0.49
31:BV:114:ILE:HB	31:BV:115:PRO:HD2	1.94	0.49
4:A4:75:LEU:O	4:A4:79:SER:OG	2.30	0.49
2:A2:78:GLU:HB2	2:A2:80:ILE:CD1	2.42	0.49
9:B9:124:PHE:HD1	9:B9:124:PHE:N	2.11	0.49
24:BO:103:HIS:CE1	24:BO:107:ASN:ND2	2.80	0.49
10:AA:1703:A:H2'	10:AA:1704:C:H6	1.77	0.49
9:A9:78:LYS:HB2	9:A9:80:TYR:HE1	1.77	0.49
20:AK:106:LYS:NZ	20:AK:136:PRO:HD2	2.27	0.49
28:AS:60:LYS:HZ3	28:AS:64:LYS:HE3	1.76	0.49
10:AA:122:A:N7	34:AY:201:ARG:NH1	2.61	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A9:105:ASN:O	9:A9:107:GLY:N	2.46	0.49
10:AA:1688:C:O2'	10:AA:1689:U:H5'	2.13	0.49
11:AB:148:SER:O	11:AB:150:LEU:N	2.46	0.49
14:AE:158:LYS:HG2	14:AE:171:VAL:HG13	1.95	0.49
15:BF:88:GLU:HA	15:BF:88:GLU:OE1	2.13	0.49
2:A2:21:HIS:N	2:A2:21:HIS:CD2	2.76	0.49
10:BA:1618:C:H2'	10:BA:1619:U:C6	2.48	0.49
10:AA:1547:G:O2'	10:AA:1548:A:H5'	2.13	0.49
7:A7:5:LEU:HB2	7:A7:8:THR:OG1	2.12	0.49
26:AQ:81:ARG:HD3	26:AQ:112:PRO:HG3	1.94	0.49
8:B8:34:LYS:NZ	8:B8:36:LYS:HB3	2.28	0.49
10:AA:165:A:C2'	10:AA:166:C:H5'	2.43	0.49
29:AT:39:GLN:C	29:AT:41:THR:H	2.16	0.49
10:BA:770:G:P	32:BW:257:LYS:NZ	2.86	0.49
13:BD:71:PHE:CE1	32:BW:254:ARG:HD3	2.48	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
16:BG:68:ILE:HD13	16:BG:85:ILE:HA	1.94	0.49
10:BA:84:U:C2'	10:BA:85:G:H5'	2.36	0.49
34:BY:148:LYS:N	34:BY:151:ASP:OD2	2.45	0.49
10:AA:1369:A:C2'	10:AA:1370:U:O5'	2.61	0.49
10:BA:1541:A:O2'	22:BM:147:VAL:CG2	2.61	0.49
10:BA:1153:U:O2'	28:BS:131:THR:HG22	2.13	0.49
10:AA:879:G:N1	10:AA:880:G:C2	2.80	0.49
27:AR:125:ALA:HB3	27:AR:134:LEU:CB	2.39	0.49
10:AA:477:G:C2	10:AA:496:G:N3	2.80	0.49
10:BA:683:A:C2'	10:BA:684:A: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
4:B4:135:GLY:O	4:B4:136:TYR:HD1	1.95	0.49
5:B5:58:ALA:HB3	20:BK:126:ILE:C	2.33	0.49
8:A8:46:GLU:O	8:A8:50:VAL:HG23	2.13	0.49
32:BW:181:ASN:O	32:BW:196:ILE:HA	2.12	0.49
3:A3:135:THR:CG2	3:A3:136:LEU:HD23	2.42	0.49
11:AB:139:PRO:HD3	35:AZ:47:VAL:CG2	2.43	0.49
32:BW:184:TYR:HE1	32:BW:192:GLY:HA2	1.78	0.49
3:A3:44:GLN:HG2	3:A3:45:VAL:N	2.28	0.49
32:AW:124:LYS:HE2	32:AW:126:LEU:CD2	2.43	0.49
32:AW:89:MET:HE3	32:AW:238:ILE:HD13	1.95	0.49
17:AH:18:GLU:CG	17:AH:69:ILE:HB	2.36	0.49
31:BV:102:THR:O	31:BV:106:LEU:HG	2.12	0.49
10:AA:1183:A:H4'	28:AS:105:LYS:NZ	2.28	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:55:VAL:CG2	25:AP:58:PHE:HE1	2.26	0.49
19:BJ:20:ARG:O	19:BJ:114:LEU:HA	2.12	0.49
15:BF:27:ARG:O	15:BF:29:ARG:N	2.46	0.49
15:AF:39:PRO:HG2	15:AF:42:PHE:HE1	1.77	0.49
29:AT:15:ALA:CB	29:AT:66:ARG:NE	2.76	0.49
2:A2:38:LEU:HD21	2:A2:104:LEU:CD1	2.41	0.49
10:AA:148:C:H4'	34:AY:108:VAL:HG21	1.93	0.49
29:BT:116:ILE:HG23	29:BT:136:GLY:HA2	1.93	0.49
24:BO:60:HIS:O	24:BO:62:ILE:N	2.46	0.49
10:BA:173:A:C8	10:BA:173:A:H5'	2.44	0.49
10:BA:160:C:O2	34:BY:133:LEU:HD12	2.13	0.49
10:AA:1385:U:H2'	10:AA:1386:U:OP1	2.13	0.49
19:BJ:95:VAL:HG22	19:BJ:116:MET:CE	2.43	0.49
28:AS:49:ARG:NH1	28:AS:87:SER:O	2.46	0.49
6:A6:23:ILE:HG23	24:AO:20:PHE:HD2	1.77	0.49
30:BU:42:LEU:O	30:BU:43:PHE:HB2	2.12	0.49
10:BA:580:G:H2'	10:BA:581:C:C6	2.48	0.49
22:BM:114:GLU:OE2	22:BM:118:LYS:HE3	2.13	0.49
10:AA:14:C:OP1	14:AE:165:SER:OG	2.25	0.48
10:AA:2:A:C2	10:AA:361:A:H1'	2.48	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
22:AM:29:PRO:O	22:AM:32:LEU:HB2	2.12	0.48
34:AY:148:LYS:N	34:AY:151:ASP:OD2	2.46	0.48
29:AT:44:SER:HA	29:AT:100:HIS:ND1	2.28	0.48
10:AA:760:G:H8	10:AA:760:G:O5'	1.96	0.48
10:BA:1008:A:C5'	10:BA:1009:U:OP2	2.60	0.48
5:B5:13:LYS:HG3	10:BA:912:A:H1'	1.95	0.48
6:A6:46:SER:O	6:A6:69:VAL:HG23	2.12	0.48
10:BA:1369:A:P	10:BA:1369:A:H8	2.37	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:AA:466:A:N6	13:AD:40:ARG:HH22	2.09	0.48
10:AA:1369:A:H2'	10:AA:1370:U:H6	1.77	0.48
23:BN:22:VAL:O	23:BN:24:GLY:N	2.46	0.48
10:AA:1711:U:O2'	10:AA:1712:C:H5'	2.13	0.48
11:BB:5:ARG:CG	11:BB:187:LYS:NZ	2.76	0.48
10:AA:955:A:H2	10:AA:956:A:N3	2.10	0.48
5:A5:57:LEU:CG	5:A5:58:ALA:N	2.75	0.48
27:BR:47:ARG:HD3	27:BR:78:PHE:CE2	2.48	0.48
10:AA:562:G:OP1	21:AL:69:LYS:HD2	2.13	0.48
2:B2:31:ARG:CG	10:BA:323:U:OP1	2.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:49:C:O2'	10:AA:50:A:C5'	2.52	0.48
16:BG:101:ARG:O	16:BG:103:PRO:CD	2.61	0.48
14:BE:41:LYS:C	14:BE:42:ILE:HG23	2.33	0.48
33:BX:7:THR:CG2	33:BX:10:LYS:HB2	2.34	0.48
26:AQ:21:LYS:HD2	26:AQ:29:ALA:HA	1.95	0.48
2:A2:93:ALA:HA	26:AQ:9:TYR:CD2	2.48	0.48
32:BW:185:ILE:HG22	32:BW:226:ASN:O	2.13	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
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
13:AD:1:MET:H1	13:AD:1:MET:CE	2.26	0.48
10:BA:734:U:C2	10:BA:782:A:H2	2.31	0.48
34:BY:91:PHE:HD1	34:BY:91:PHE:O	1.95	0.48
12:AC:163:THR:CG2	12:AC:164:GLY:N	2.76	0.48
10:BA:787:A:N3	17:BH:105:THR:HG22	2.28	0.48
27:AR:33:GLN:HE22	27:AR:87:GLU:HA	1.77	0.48
10:AA:272:U:O5'	10:AA:272:U:H6	1.95	0.48
35:BZ:34:TRP:HD1	35:BZ:82:ALA:HA	1.78	0.48
11:AB:96:SER:HB3	11:AB:111:LYS:NZ	2.28	0.48
15:AF:88:GLU:HA	15:AF:88:GLU:OE1	2.11	0.48
7:B7:38:PRO:CG	7:B7:41:HIS:HD2	2.26	0.48
18:BI:116:ARG:HB3	18:BI:120:VAL:CG2	2.42	0.48
10:BA:777:U:C2'	10:BA:777:U:O2	2.60	0.48
4:A4:50:VAL:CG1	4:A4:51:THR:N	2.75	0.48
32:BW:249:THR:HB	32:BW:252:GLU:H	1.78	0.48
10:AA:138:G:OP2	34:AY:143:LYS:NZ	2.46	0.48
30:BU:35:THR:CG2	30:BU:41:ALA:HB2	2.42	0.48
24:BO:43:ALA:CB	24:BO:82:CYS:SG	3.01	0.48
19:AJ:42:ALA:O	19:AJ:48:VAL:HG11	2.12	0.48
10:AA:1321:G:H21	10:AA:1349:C:N4	2.10	0.48
21:BL:85:PHE:HE1	21:BL:87:PRO:HA	1.78	0.48
12:BC:117:PRO:HG2	12:BC:120:LEU:HB3	1.95	0.48
30:AU:87:THR:O	30:AU:88:ALA:O	2.31	0.48
35:BZ:17:ILE:HG22	35:BZ:21:LYS:HA	1.95	0.48
4:B4:69:GLU:HB2	4:B4:86:LYS:HE2	1.94	0.48
21:AL:87:PRO:O	21:AL:88:MET:O	2.31	0.48
14:AE:155:ILE:HD11	14:AE:197:ILE:HG21	1.95	0.48
10:AA:605:U:H1'	26:AQ:96:TYR:HA	1.95	0.48
4:A4:161:TYR:N	4:A4:161:TYR:CD1	2.79	0.48
10:BA:6:G:C2	10:BA:19:A:N3	2.81	0.48
29:BT:39:GLN:C	29:BT:41:THR:H	2.16	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:498:C:O2'	10:BA:499:A:P	2.71	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:1008:A:H4'	10:AA:1009:U:OP2	2.13	0.48
10:BA:44:U:O2'	10:BA:45:A:OP2	2.26	0.48
10:BA:72:G:C2	10:BA:75:C:C4	3.01	0.48
10:AA:1366:G:C2	10:AA:1373:G:N2	2.81	0.48
10:BA:935:G:C5	10:BA:936:U:C5	3.01	0.48
22:BM:138:THR:O	22:BM:138:THR:HG22	2.12	0.48
1:B1:4:GLU:HG2	1:B1:58:MET:HE2	1.95	0.48
9:A9:155:UNK:CA	9:A9:158:UNK:HG3	2.43	0.48
10:AA:1713:G:H1'	10:AA:1734:A:H2	1.77	0.48
13:BD:37:LYS:HB2	13:BD:38:ASN:OD1	2.12	0.48
2:A2:22:ARG:CD	2:A2:25:ARG:CZ	2.91	0.48
27:AR:289:ALA:O	27:AR:291:VAL:N	2.47	0.48
3:A3:145:LEU:O	3:A3:146:ASP:C	2.51	0.48
10:BA:306:A:O2'	10:BA:307:G:O4'	2.27	0.48
10:BA:311:U:O2'	10:BA:312:C:C5	2.62	0.48
26:BQ:61:SER:OG	26:BQ:62:ASN:N	2.46	0.48
10:BA:238:G:N2	10:BA:239:A:H1'	2.28	0.48
10:AA:295:U:H1'	26:AQ:68:LYS:CE	2.43	0.48
2:A2:114:SER:CB	2:A2:172:ILE:HD11	2.43	0.48
32:BW:187:GLN:C	32:BW:191:ILE:HG22	2.33	0.48
27:BR:243:LEU:O	27:BR:245:LEU:HG	2.13	0.48
2:B2:40:THR:CG2	2:B2:87:LEU:HD12	2.42	0.48
16:AG:99:THR:HG21	16:AG:101:ARG:HE	1.78	0.48
16:AG:105:GLU:O	16:AG:105:GLU:HG2	2.12	0.48
25:AP:13:ASN:OD1	25:AP:15:LEU:HB2	2.14	0.48
10:BA:297:U:O2'	10:BA:298:G:H5'	2.13	0.48
31:BV:103:LYS:CE	31:BV:118:VAL:HG21	2.43	0.48
28:BS:101:VAL:HG21	28:BS:121:LEU:CD1	2.38	0.48
10:BA:456:A:O2'	10:BA:457:G:H5'	2.13	0.48
21:BL:75:LEU:CD2	21:BL:82:ILE:HD12	2.39	0.48
34:AY:68:MET:O	34:AY:69:VAL:HG23	2.13	0.48
20:BK:142:ARG:NH2	20:BK:143:GLU:CD	2.67	0.48
13:AD:168:ARG:HB2	13:AD:172:THR:OG1	2.14	0.48
10:AA:1521:C:C2	10:AA:1535:A:C2	3.02	0.48
31:BV:112:GLN:HG3	31:BV:113:ASN:H	1.77	0.48
13:BD:170:GLY:O	13:BD:174:ARG:HB2	2.13	0.48
11:BB:156:VAL:HG23	35:BZ:80:HIS:CB	2.39	0.48
10:BA:1148:G:H1'	10:BA:1167:C:O2'	2.12	0.48
10:BA:1463:U:C2'	10:BA:1463:U:O2	2.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:586:A:OP1	13:AD:39:LYS:HD2	2.12	0.48
10:BA:1492:U:O2'	10:BA:1493:A:OP2	2.32	0.48
31:AV:98:ILE:CG2	31:AV:102:THR:HB	2.43	0.48
10:BA:1256:C:H4'	10:BA:1257:U:O5'	2.13	0.48
18:AI:116:ARG:HB3	18:AI:120:VAL:CG2	2.43	0.48
12:BC:211:ASP:O	12:BC:212:ASN:C	2.52	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
10:BA:100:A:O2'	10:BA:101:A:P	2.71	0.48
34:BY:102:VAL:CG1	34:BY:109:LEU:HD11	2.43	0.48
11:BB:198:PHE:H	11:BB:198:PHE:HD1	1.58	0.48
24:AO:8:GLY:O	24:AO:9:LYS:CB	2.60	0.48
30:BU:115:ASP:O	30:BU:119:ILE:HG13	2.14	0.48
21:AL:85:PHE:HE1	21:AL:87:PRO:HA	1.77	0.48
10:BA:1470:C:OP2	29:BT:76:ILE:HG13	2.14	0.48
10:BA:266:G:C4	10:BA:278:G:N2	2.80	0.48
10:AA:1072:G:N2	17:AH:79:TYR:CZ	2.81	0.48
8:A8:60:VAL:HB	8:A8:64:LEU:CD2	2.37	0.48
16:AG:83:LEU:HD23	16:AG:83:LEU:C	2.33	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:81:A:O2'	25:BP:117:GLY:HA3	2.12	0.48
10:BA:1532:U:H5	28:BS:45:LYS:NZ	2.10	0.48
10:AA:506:U:C4'	13:AD:131:GLN:HB3	2.43	0.48
10:BA:936:U:H5'	10:BA:937:U:OP1	2.12	0.48
10:AA:1228:A:N3	10:AA:1228:A:H2'	2.28	0.48
10:BA:1425:G:N2	10:BA:1426:G:H1'	2.29	0.48
10:BA:1541:A:O2'	22:BM:147:VAL:HG21	2.12	0.48
16:BG:189:LYS:C	16:BG:189:LYS:HD3	2.32	0.48
10:BA:1485:G:O2'	10:BA:1487:A:N3	2.38	0.48
24:BO:96:LYS:HG3	24:BO:97:ALA:N	2.27	0.48
10:AA:1427:C:OP2	10:AA:1428:C:C5	2.66	0.48
22:BM:94:ASP:CG	28:BS:16:LYS:HD2	2.34	0.48
3:B3:118:CYS:HB3	10:BA:633:U:OP2	2.14	0.48
14:BE:231:TRP:O	14:BE:232:GLY:O	2.30	0.48
10:AA:623:U:N3	10:AA:949:A:C6	2.81	0.48
10:BA:1198:A:N3	10:BA:1228:A:C2	2.81	0.48
2:B2:94:THR:HG23	10:BA:319:A:C2	2.48	0.48
10:BA:311:U:H4'	10:BA:312:C:C6	2.48	0.48
10:AA:616:A:H4'	10:AA:617:A:C5'	2.32	0.48
10:AA:1552:U:C2'	10:AA:1553:C:H5'	2.43	0.48
34:AY:132:LYS:HZ3	34:AY:163:ARG:CB	2.26	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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: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
33:AX:62:TRP:CH2	33:AX:63:HIS:NE2	2.81	0.48
26:AQ:12:GLN:O	26:AQ:53:VAL:HG13	2.14	0.48
32:BW:124:LYS:HE2	32:BW:126:LEU:CD2	2.43	0.48
16:AG:19:TYR:CE2	16:AG:41:GLN:HA	2.48	0.48
13:AD:116:LEU:C	13:AD:118:LEU:N	2.65	0.48
34:BY:98:ARG:HD2	34:BY:99:GLY:N	2.29	0.48
34:BY:90:GLY:O	34:BY:92:ARG:N	2.46	0.48
13:AD:120:ASN:H	13:AD:124:HIS:HD2	1.56	0.48
27:AR:224:ASN:HB3	27:AR:226:LYS:CG	2.40	0.48
19:BJ:67:LYS:HE2	19:BJ:78:ASP:OD1	2.14	0.48
10:AA:55:U:O2'	10:AA:56:G:OP2	2.30	0.48
35:BZ:73:VAL:HG13	35:BZ:78:GLU:HB3	1.95	0.48
10:AA:1164:C:H5''	10:AA:1165:A:H3'	1.95	0.48
10:BA:1492:U:HO2'	10:BA:1493:A:P	2.36	0.48
29:AT:69:TYR:HA	29:AT:132:ILE:HG21	1.94	0.48
25:AP:28:PRO:O	25:AP:29:ASP:CB	2.61	0.48
10:BA:958:G:H4'	10:BA:1729:A:H4'	1.94	0.48
10:AA:1099:G:H2'	10:AA:1100:U:H6	1.78	0.48
9:A9:113:GLN:HA	9:A9:127:LYS:CE	2.43	0.48
12:BC:145:LEU:CD1	12:BC:153:MET:HB2	2.44	0.48
13:BD:69:ARG:NH2	13:BD:92:LYS:NZ	2.61	0.48
24:AO:56:LEU:HD22	24:AO:62:ILE:HD12	1.96	0.48
13:BD:26:ASN:HA	13:BD:29:LYS:HG3	1.96	0.48
12:AC:109:ASN:HD21	12:AC:178:VAL:HG13	1.77	0.48
24:BO:88:GLU:O	24:BO:89:ASP:C	2.52	0.48
10:BA:639:C:H2'	10:BA:640:A:H8	1.77	0.48
34:BY:210:GLU:O	34:BY:214:LYS:HG3	2.13	0.48
16:BG:125:THR:HB	16:BG:130:ARG:NH2	2.28	0.48
14:AE:162:LYS:HD2	14:AE:162:LYS:H	1.78	0.48
3:A3:181:GLU:H	3:A3:181:GLU:HG2	1.41	0.48
5:A5:82:HIS:CD2	10:AA:1722:U:H3	2.31	0.48
27:BR:280:ILE:HD12	27:BR:338:PHE:CE2	2.49	0.48
14:AE:167:ARG:CB	14:AE:202:GLN:HB2	2.43	0.48
4:A4:121:GLN:NE2	4:A4:145:PHE:CD2	2.78	0.48
13:BD:60:LEU:HD21	13:BD:93:LEU:HB3	1.96	0.48
10:BA:2:A:N3	14:BE:198:TYR:CD2	2.81	0.48
16:AG:63:ILE:O	16:AG:66:ARG:HB2	2.14	0.48
29:AT:49:LEU:HG	29:AT:50:ALA:N	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:756:G:OP2	32:AW:22:LYS:HB2	2.14	0.48
10:AA:1485:G:O2'	10:AA:1487:A:N3	2.39	0.48
10:BA:770:G:P	32:BW:257:LYS:HZ1	2.36	0.48
16:BG:52:GLN:HE22	16:BG:58:LYS:CE	2.27	0.48
10:BA:427:A:C5'	21:BL:49:LYS:HG3	2.38	0.48
10:AA:1370:U:O4	10:AA:1371:A:N3	2.46	0.48
10:BA:630:A:O2'	17:BH:58:SER:HB3	2.14	0.48
8:B8:43:VAL:HB	22:BM:25:LYS:HZ1	1.78	0.48
10:BA:1569:A:C4	23:BN:13:TYR:HE2	2.31	0.48
10:AA:1574:C:OP2	29:AT:93:ARG:NH2	2.45	0.48
23:AN:13:TYR:CD1	23:AN:13:TYR:N	2.82	0.48
3:B3:102:SER:HB2	3:B3:105:VAL:HG23	1.95	0.48
20:AK:88:LEU:O	20:AK:89:LYS:HB2	2.13	0.48
2:B2:179:ARG:NH2	10:BA:322:G:O6	2.47	0.48
16:BG:105:GLU:O	16:BG:105:GLU:HG2	2.12	0.48
10:AA:1714:U:HO2'	10:AA:1715:A:H5'	1.78	0.48
17:AH:89:TRP:CD2	17:AH:125:ILE:HD11	2.48	0.48
2:A2:92:ASN:O	2:A2:94:THR:N	2.46	0.48
2:B2:202:LYS:O	2:B2:206:LYS:CB	2.56	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
12:AC:104:GLN:HE21	12:AC:129:VAL:HG22	1.79	0.48
26:BQ:128:ARG:HB2	26:BQ:129:PRO:HD2	1.96	0.48
14:BE:27:TRP:CE2	14:BE:59:GLU:HB2	2.49	0.48
20:BK:47:LEU:N	20:BK:47:LEU:CD2	2.69	0.48
10:BA:397:U:H4'	34:BY:76:LEU:HD21	1.95	0.48
10:AA:731:C:O2'	17:AH:121:THR:HG23	2.12	0.48
10:AA:1064:A:O2'	10:AA:1065:A:H3'	2.12	0.48
25:AP:56:TYR:HD1	25:AP:56:TYR:C	2.16	0.48
11:BB:45:ASN:HD21	31:BV:109:LEU:CD1	2.27	0.48
10:AA:381:G:N2	10:AA:398:A:C6	2.80	0.48
13:BD:168:ARG:HB2	13:BD:172:THR:OG1	2.14	0.48
7:A7:11:ARG:C	7:A7:15:GLN:NE2	2.67	0.48
10:AA:1657:G:H2'	10:AA:1658:A:H8	1.78	0.48
10:BA:1353:G:H1'	19:BJ:55:ARG:NH1	2.28	0.48
16:BG:107:PHE:HA	16:BG:172:ILE:CG2	2.44	0.48
11:AB:179:LYS:HE3	11:AB:191:TRP:HH2	1.78	0.48
16:BG:50:ARG:NH1	18:BI:123:PRO:HG3	2.27	0.48
9:B9:120:GLY:N	9:B9:121:PRO:HD2	2.28	0.48
10:AA:505:A:OP2	13:AD:170:GLY:N	2.42	0.48
3:B3:157:GLN:HB2	3:B3:188:GLU:HA	1.95	0.48
28:AS:60:LYS:NZ	28:AS:64:LYS:HE3	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:AU:113:THR:HG22	30:AU:115:ASP:H	1.77	0.48
22:AM:123:ARG:HH11	22:AM:123:ARG:CG	2.25	0.48
34:BY:150:GLU:CD	34:BY:150:GLU:H	2.16	0.48
21:BL:73:VAL:HG12	21:BL:74:LEU:N	2.28	0.48
10:AA:449:G:O2'	10:AA:450:G:H5'	2.12	0.48
19:BJ:25:CYS:HB3	19:BJ:31:VAL:HB	1.95	0.48
10:AA:3:C:C5'	10:AA:3:C:C6	2.86	0.48
14:AE:83:GLN:HB2	14:AE:208:ARG:HD2	1.95	0.48
14:BE:83:GLN:C	14:BE:84:ILE:HG13	2.33	0.48
1:A1:48:ALA:HB3	16:AG:139:MET:HG2	1.95	0.48
10:AA:1582:G:H5''	16:AG:81:LYS:HB3	1.96	0.48
10:BA:472:A:O2'	10:BA:473:A:H5'	2.14	0.48
10:AA:761:U:O2'	10:AA:762:U:C5'	2.61	0.48
19:AJ:61:LEU:HD22	23:AN:33:TYR:OH	2.13	0.48
10:AA:425:A:N1	10:AA:426:G:C2	2.81	0.48
10:BA:1582:G:H5''	16:BG:81:LYS:HB3	1.95	0.48
18:BI:13:GLY:HA2	18:BI:85:GLN:NE2	2.29	0.48
18:BI:4:GLN:O	18:BI:5:LYS:CB	2.61	0.48
5:A5:77:ILE:HG12	10:AA:1746:G:C6	2.48	0.48
5:A5:34:LYS:NZ	10:AA:1744:U:C5	2.81	0.48
10:AA:976:A:N6	10:AA:982:U:OP2	2.47	0.48
10:BA:133:A:H61	10:BA:169:G:C2'	2.26	0.48
10:BA:85:G:C4	10:BA:444:A:C2	3.02	0.48
9:B9:149:UNK:HG2	9:B9:150:UNK:N	2.27	0.48
10:BA:942:U:O2'	10:BA:943:U:P	2.71	0.48
10:AA:1200:G:C8	10:AA:1200:G:O5'	2.63	0.48
10:BA:1440:A:H2'	10:BA:1441:C:C6	2.48	0.48
10:BA:929:A:HO2'	10:BA:930:A:H5'	1.75	0.48
9:A9:149:UNK:HG2	9:A9:150:UNK:N	2.27	0.48
3:B3:113:ARG:O	3:B3:113:ARG:HG2	2.12	0.48
27:AR:144:LEU:HD12	27:AR:145:TRP:N	2.28	0.48
3:B3:126:LEU:O	3:B3:130:LEU:HG	2.14	0.48
10:BA:302:U:O2'	10:BA:303:A:H5''	2.14	0.48
26:BQ:21:LYS:C	26:BQ:23:LEU:H	2.15	0.48
10:AA:679:U:H2'	10:AA:680:U:O4'	2.13	0.48
10:AA:223:C:H2'	10:AA:224:G:O4'	2.12	0.48
31:AV:43:SER:HB3	31:AV:46:LEU:HB2	1.94	0.48
28:AS:42:PHE:CD2	28:AS:46:THR:HG21	2.49	0.48
26:AQ:11:LYS:HB3	26:AQ:53:VAL:HB	1.94	0.48
27:BR:249:GLN:O	27:BR:250:ARG:HB2	2.13	0.48
27:BR:281:PHE:HD1	27:BR:281:PHE:N	2.11	0.48
4:A4:108:ILE:CG2	4:A4:109:THR:H	2.17	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B2:39:THR:C	2:B2:41:GLN:N	2.66	0.48
32:BW:194:VAL:HG21	32:BW:240:LEU:HD13	1.95	0.48
13:BD:106:GLU:CA	13:BD:111:THR:HG21	2.36	0.48
10:AA:386:U:H4'	34:AY:89:SER:HB2	1.95	0.48
10:BA:66:A:N6	10:BA:67:G:C2	2.81	0.48
31:BV:103:LYS:HE3	31:BV:118:VAL:HG21	1.94	0.48
2:B2:56:VAL:HG22	10:BA:324:A:H5''	1.95	0.48
10:BA:95:C:H4'	10:BA:96:A:O5'	2.14	0.48
34:AY:64:LYS:HZ1	34:AY:82:SER:N	2.12	0.48
18:AI:8:LEU:HD12	18:AI:9:VAL:N	2.23	0.48
18:BI:88:SER:HB3	18:BI:111:LEU:HD13	1.95	0.48
10:BA:981:A:C2'	10:BA:982:U:OP2	2.60	0.48
2:A2:175:CYS:HB3	2:A2:189:TYR:CZ	2.48	0.48
2:A2:35:MET:HE3	2:A2:37:LYS:HG3	1.95	0.48
2:B2:152:LYS:O	2:B2:155:LYS:HB3	2.13	0.48
35:BZ:34:TRP:HD1	35:BZ:82:ALA:CA	2.25	0.48
29:AT:9:THR:HG22	29:AT:10:VAL:H	1.74	0.48
31:AV:20:TYR:O	31:AV:21:TYR:C	2.51	0.48
31:BV:114:ILE:HG22	31:BV:115:PRO:HD3	1.96	0.48
32:BW:31:PRO:HB2	32:BW:38:LEU:CD2	2.43	0.48
6:A6:5:LEU:CB	17:AH:24:GLN:NE2	2.76	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:148:C:H4'	34:BY:108:VAL:CG2	2.43	0.48
10:BA:1384:U:C4'	10:BA:1385:U:OP1	2.62	0.48
28:AS:60:LYS:HD3	28:AS:64:LYS:HE3	1.94	0.48
11:AB:203:LEU:CD2	11:AB:204:PRO:HD2	2.43	0.48
10:BA:1169:C:OP1	18:BI:140:MET:SD	2.70	0.48
34:BY:145:PHE:CD1	34:BY:145:PHE:N	2.81	0.48
17:AH:36:LYS:O	17:AH:40:ILE:HG13	2.14	0.48
12:AC:151:LYS:HD2	12:AC:152:THR:H	1.79	0.48
10:BA:613:A:O5'	10:BA:614:A:OP1	2.31	0.48
10:AA:443:A:H2'	10:AA:445:U:C6	2.48	0.48
10:AA:64:U:C5	10:AA:79:G:C2	3.01	0.48
12:AC:9:ASN:HD22	12:AC:12:LYS:CD	2.25	0.48
10:BA:1715:A:O2'	10:BA:1736:C:H5''	2.13	0.48
16:BG:57:ARG:O	16:BG:59:THR:N	2.47	0.48
1:A1:42:ILE:H	1:A1:63:GLU:CG	2.19	0.48
10:BA:1580:U:H2'	10:BA:1581:U:C6	2.48	0.48
18:BI:12:PHE:HA	18:BI:20:ALA:O	2.14	0.48
10:BA:1339:G:H2'	10:BA:1340:G:H8	1.78	0.48
9:B9:90:HIS:NE2	10:BA:1217:G:N2	2.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BS:45:LYS:O	28:BS:48:ARG:HB3	2.13	0.48
10:AA:747:G:N2	10:AA:755:G:N1	2.61	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:AA:1373:G:C4	10:AA:1374:C:H5	2.31	0.48
31:AV:58:MET:CE	31:AV:61:ILE:HD12	2.43	0.48
17:BH:64:GLU:O	17:BH:65:LEU:HD23	2.14	0.48
8:B8:65:THR:O	8:B8:67:SER:N	2.46	0.48
23:BN:16:ASP:OD1	23:BN:26:ARG:NH1	2.42	0.48
10:AA:884:A:H2'	10:AA:885:A:O4'	2.14	0.48
23:AN:28:GLY:O	23:AN:29:LEU:C	2.52	0.48
2:A2:25:ARG:HA	10:AA:391:A:OP2	2.13	0.48
10:BA:50:A:H2'	10:BA:51:U:H5'	1.95	0.48
33:BX:7:THR:CG2	33:BX:8:LEU:H	2.25	0.48
10:AA:343:C:O2'	10:AA:344:A:P	2.72	0.48
12:BC:225:LYS:HD3	27:BR:209:PHE:CD1	2.49	0.48
27:AR:164:TRP:N	27:AR:164:TRP:CD1	2.80	0.48
10:BA:783:U:H2'	10:BA:784:G:H8	1.77	0.48
17:AH:106:THR:HG23	17:AH:122:GLY:CA	2.43	0.48
25:AP:83:TYR:CD1	25:AP:83:TYR:N	2.79	0.48
10:BA:96:A:C2'	10:BA:97:U:H5'	2.43	0.48
4:A4:35:ARG:NH1	4:A4:98:ASN:OD1	2.46	0.48
18:BI:24:VAL:HG13	18:BI:67:ILE:HG12	1.93	0.48
7:A7:88:ILE:HG23	7:A7:93:LYS:HG3	1.95	0.48
2:A2:84:THR:HG21	2:A2:113:ASP:O	2.14	0.48
4:A4:58:ILE:O	4:A4:59:ALA:C	2.52	0.48
30:AU:120:ILE:C	30:AU:122:GLY:N	2.67	0.48
10:AA:1544:G:O5'	10:AA:1544:G:H8	1.96	0.48
10:AA:1088:A:O2'	10:AA:1089:U:P	2.70	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
28:AS:73:PRO:C	28:AS:75:GLY:N	2.66	0.48
19:AJ:95:VAL:HG22	19:AJ:116:MET:CE	2.43	0.48
20:BK:116:LEU:C	20:BK:116:LEU:HD23	2.34	0.48
3:B3:109:LYS:H	3:B3:109:LYS:CD	2.26	0.48
31:BV:34:ILE:O	31:BV:38:VAL:HG23	2.13	0.48
27:AR:280:ILE:HD12	27:AR:338:PHE:CE2	2.49	0.48
2:A2:49:ARG:HB2	2:A2:68:LEU:HD23	1.95	0.48
2:A2:123:LEU:C	2:A2:123:LEU:HD23	2.34	0.48
29:AT:22:TYR:O	29:AT:22:TYR:HD1	1.97	0.48
12:AC:229:THR:HG22	12:AC:231:VAL:HG23	1.95	0.48
22:AM:18:LEU:HD21	22:AM:70:THR:HG23	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1558:A:C8	10:AA:1583:A:N6	2.81	0.48
16:AG:71:LEU:HG	16:AG:84:CYS:SG	2.54	0.48
10:BA:533:G:H3'	33:BX:28:ARG:HH12	1.79	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
7:A7:60:ASN:HB2	12:AC:26:SER:OG	2.14	0.48
12:AC:11:LYS:HG2	19:AJ:61:LEU:HD21	1.95	0.48
24:BO:142:LYS:O	24:BO:147:THR:OG1	2.32	0.48
10:AA:1326:C:H5'	10:AA:1326:C:C6	2.48	0.48
10:AA:1193:A:H5'	30:AU:90:ALA:HB2	1.96	0.48
13:AD:129:ILE:HD13	13:AD:129:ILE:H	1.78	0.48
10:AA:1367:C:H2'	10:AA:1368:A:H5'	1.95	0.48
17:BH:74:VAL:CG1	17:BH:75:ILE:H	2.19	0.48
10:AA:642:G:C6	10:AA:643:U:C4	3.01	0.48
10:AA:670:G:H8	10:AA:670:G:C5'	2.26	0.48
10:BA:1153:U:C2	10:BA:1157:U:H5	2.32	0.48
13:BD:128:LEU:C	13:BD:130:ARG:N	2.66	0.48
3:A3:70:TYR:CE2	3:A3:74:LEU:HD11	2.49	0.48
10:AA:1158:U:O4	10:AA:1159:U:C4	2.66	0.48
20:BK:54:VAL:HG22	20:BK:84:ARG:HG3	1.95	0.48
27:AR:186:TYR:HB2	27:AR:199:TRP:O	2.13	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
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
27:BR:20:HIS:CE1	27:BR:46:SER:HB3	2.48	0.48
21:AL:69:LYS:HZ2	21:AL:92:LEU:HD23	1.78	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
22:AM:94:ASP:HB2	28:AS:15:GLY:O	2.14	0.48
14:BE:35:ARG:NH2	14:BE:251:LYS:HB2	2.29	0.48
10:BA:1465:C:C2'	10:BA:1466:C:C5'	2.85	0.48
26:AQ:20:LYS:HB2	26:AQ:20:LYS:HE3	1.55	0.48
12:BC:98:GLY:HA2	12:BC:104:GLN:NE2	2.29	0.48
32:BW:49:LYS:HE3	32:BW:61:VAL:CG2	2.44	0.48
27:AR:218:HIS:HD2	27:AR:261:ILE:H	1.60	0.48
2:A2:148:GLN:OE1	10:AA:189:C:H1'	2.13	0.48
4:B4:130:CYS:CB	4:B4:138:ILE:HD12	2.38	0.48
17:AH:97:ARG:O	17:AH:98:GLN:HG2	2.13	0.48
10:BA:392:A:H3'	10:BA:393:C:C4'	2.44	0.48
24:AO:128:SER:O	24:AO:132:LYS:HG3	2.14	0.48
10:BA:866:U:O2'	10:BA:967:U:H4'	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:900:A:H2'	10:AA:901:A:C8	2.48	0.48
13:BD:94:ASP:HB3	14:BE:149:ILE:CD1	2.40	0.48
11:BB:172:TRP:CD2	11:BB:195:VAL:HG22	2.48	0.48
10:BA:1472:U:OP2	29:BT:105:ARG:NH1	2.47	0.48
10:BA:971:A:N6	10:BA:990:U:C5	2.82	0.48
24:AO:13:ILE:C	24:AO:14:SER:O	2.49	0.48
10:BA:1590:C:O2'	10:BA:1591:C:OP2	2.27	0.48
16:BG:183:SER:C	16:BG:185:ALA:N	2.64	0.48
10:AA:553:A:H61	12:AC:181:LYS:HB3	1.79	0.48
10:BA:386:U:H4'	34:BY:89:SER:HB2	1.96	0.48
7:B7:77:LYS:HA	7:B7:84:ALA:HB3	1.96	0.48
32:BW:216:LYS:O	32:BW:216:LYS:HG2	2.13	0.48
10:AA:15:U:O2'	10:AA:614:A:N6	2.46	0.48
14:BE:167:ARG:O	14:BE:201:SER:HA	2.14	0.48
8:A8:73:LEU:O	8:A8:74:LYS:HB2	2.13	0.48
10:AA:1511:A:C2'	10:AA:1512:G:OP2	2.62	0.48
10:AA:1563:C:C6	10:AA:1563:C:H3'	2.49	0.48
16:AG:81:LYS:O	16:AG:82:ALA:C	2.52	0.48
10:BA:533:G:H2'	10:BA:534:A:O5'	2.14	0.48
23:AN:22:VAL:O	23:AN:24:GLY:N	2.47	0.48
10:BA:1120:A:O2'	10:BA:1608:C:OP2	2.29	0.48
10:BA:1717:C:H3'	10:BA:1718:A:H5'	1.96	0.48
18:BI:42:ASN:CB	18:BI:43:PRO:HD3	2.40	0.48
10:AA:1611:C:C2'	10:AA:1612:C:H5'	2.43	0.48
27:BR:255:GLY:N	27:BR:279:LYS:HE3	2.28	0.48
10:BA:262:G:C2	10:BA:264:U:C4	3.02	0.48
10:AA:748:U:C4	13:AD:149:ARG:HG3	2.47	0.48
4:B4:42:SER:O	4:B4:43:LYS:O	2.31	0.48
10:BA:892:G:O2'	10:BA:893:A:O4'	2.32	0.48
17:BH:25:VAL:HG12	17:BH:26:LEU:N	2.28	0.48
10:BA:1177:C:C5	10:BA:1178:U:C2	3.01	0.48
16:BG:158:PHE:O	16:BG:160:SER:N	2.39	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:AE:231:TRP:O	14:AE:232:GLY:O	2.31	0.48
35:AZ:13:MET:HE3	35:AZ:31:LYS:HD3	1.94	0.48
21:AL:61:LYS:HD2	21:AL:117:PRO:HA	1.96	0.48
10:AA:954:G:N2	10:AA:1001:A:H2'	2.29	0.48
18:BI:29:GLY:HA2	18:BI:65:LEU:O	2.12	0.48
27:AR:269:TRP:HB3	27:AR:281:PHE:O	2.14	0.48
31:AV:41:VAL:HG11	31:AV:47:ARG:CB	2.43	0.48
29:BT:79:LEU:HB2	29:BT:104:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:576:U:H4'	10:BA:577:C:OP1	2.14	0.48
11:BB:98:ARG:NH1	11:BB:101:PRO:CD	2.76	0.48
10:BA:1552:U:C2'	10:BA:1553:C:H5'	2.43	0.48
10:AA:181:G:C2	10:AA:194:G:C2	3.02	0.48
2:A2:145:ARG:NH1	10:AA:181:G:O6	2.47	0.48
10:BA:442:U:H5''	32:BW:7:LYS:CE	2.37	0.48
10:AA:1277:U:H1'	10:AA:1286:U:C4	2.48	0.48
34:BY:97:VAL:CG1	34:BY:98:ARG:N	2.76	0.48
10:BA:986:G:C2	10:BA:987:U:C5	3.02	0.48
25:AP:16:LEU:HB3	25:AP:83:TYR:CD2	2.47	0.48
21:BL:78:ASN:ND2	21:BL:80:LYS:HG3	2.29	0.48
11:BB:46:ILE:HG13	31:BV:105:MET:SD	2.54	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
29:AT:147:ILE:O	29:AT:151:GLN:HG3	2.13	0.48
11:BB:134:SER:HB3	11:BB:152:TYR:CD2	2.48	0.48
10:BA:89:A:N7	10:BA:389:G:C4	2.82	0.48
18:BI:98:TYR:CD1	18:BI:98:TYR:N	2.81	0.48
10:AA:1125:A:C6	10:AA:1126:C:C4	3.01	0.48
30:BU:73:VAL:HG13	30:BU:74:PRO:HD2	1.95	0.48
11:AB:198:PHE:N	11:AB:198:PHE:CD1	2.82	0.48
7:A7:30:GLY:C	7:A7:39:ASN:ND2	2.67	0.48
18:BI:142:LYS:HB3	18:BI:144:TYR:HE1	1.79	0.48
14:AE:213:LYS:O	14:AE:217:TYR:CD1	2.67	0.48
8:A8:28:LYS:HE3	10:AA:1543:C:OP2	2.13	0.48
27:AR:287:SER:OG	27:AR:288:LYS:N	2.46	0.48
10:AA:614:A:H8	10:AA:614:A:H5'	1.78	0.48
10:AA:499:A:H5''	10:AA:500:U:OP1	2.14	0.48
10:AA:58:G:O4'	10:AA:444:A:C8	2.66	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:842:U:H5'	10:AA:842:U:H6	1.78	0.48
10:AA:837:A:C4	24:AO:75:ARG:CZ	2.97	0.48
34:BY:179:ILE:O	34:BY:179:ILE:HG22	2.14	0.48
13:AD:38:ASN:HD22	13:AD:40:ARG:CD	2.25	0.48
10:BA:876:A:O2'	10:BA:877:G:P	2.72	0.48
31:AV:17:ILE:CG2	31:AV:58:MET:HE3	2.43	0.48
6:B6:34:LYS:HD2	6:B6:76:ALA:HB3	1.96	0.48
17:BH:17:ALA:CB	17:BH:22:LYS:HD2	2.44	0.48
10:BA:1173:G:N2	10:BA:1571:C:H2'	2.29	0.48
10:BA:796:U:H2'	10:BA:797:A:C4'	2.43	0.48
9:A9:129:TYR:HB2	9:A9:154:UNK:HG1	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:623:U:C6	10:BA:623:U:C3'	2.97	0.48
3:B3:180:ARG:O	3:B3:182:VAL:HG23	2.14	0.48
2:B2:92:ASN:O	2:B2:94:THR:N	2.46	0.48
2:B2:77:SER:C	26:BQ:23:LEU:HD11	2.34	0.48
10:BA:1500:C:H5''	16:BG:86:LYS:NZ	2.28	0.48
10:AA:303:A:C2	10:AA:305:C:C2	3.02	0.48
20:BK:95:ILE:CD1	20:BK:129:ILE:HG23	2.33	0.48
27:BR:237:LEU:CD2	27:BR:237:LEU:C	2.81	0.48
27:BR:252:PHE:CD2	27:BR:281:PHE:HD2	2.31	0.48
2:B2:111:GLU:OE1	2:B2:171:ARG:HB3	2.14	0.48
32:AW:72:VAL:O	32:AW:72:VAL:HG23	2.14	0.48
10:AA:866:U:O2'	10:AA:967:U:H4'	2.13	0.48
33:BX:66:LYS:O	33:BX:70:MET:HB2	2.13	0.48
10:BA:783:U:H2'	10:BA:784:G:C8	2.49	0.48
10:BA:413:C:N4	34:BY:91:PHE:CE2	2.82	0.48
21:AL:26:ASP:HB3	21:AL:29:PHE:HB3	1.95	0.48
34:AY:31:LYS:HB2	34:AY:34:GLN:NE2	2.29	0.48
13:BD:167:GLY:O	13:BD:168:ARG:HB3	2.14	0.48
35:BZ:47:VAL:HG12	35:BZ:74:ARG:CD	2.41	0.48
18:AI:24:VAL:HG13	18:AI:67:ILE:HG12	1.94	0.48
17:AH:112:THR:HG22	17:AH:114:GLU:H	1.77	0.48
30:AU:26:SER:HB3	30:AU:31:GLU:CG	2.43	0.48
10:BA:1055:G:C6	10:BA:1056:A:N7	2.82	0.48
4:B4:53:SER:HG	4:B4:59:ALA:HB2	1.76	0.48
32:BW:207:PHE:HE2	32:BW:223:ARG:NE	2.12	0.48
10:AA:272:U:H2'	10:AA:273:A:C5'	2.44	0.48
1:B1:46:LYS:HZ1	16:BG:140:ARG:HH21	1.61	0.48
9:A9:120:GLY:N	9:A9:121:PRO:HD2	2.29	0.48
6:A6:5:LEU:H	17:AH:24:GLN:HE22	1.61	0.48
16:BG:174:ASN:CB	16:BG:182:SER:O	2.62	0.48
21:AL:131:LEU:O	21:AL:132:LEU:C	2.51	0.48
3:A3:109:LYS:HE3	10:AA:725:A:OP1	2.13	0.48
13:BD:83:TYR:HD2	13:BD:147:MET:HG3	1.79	0.48
2:A2:73:PHE:HA	2:A2:188:GLY:O	2.14	0.48
7:A7:100:ILE:HG22	12:AC:91:ALA:O	2.14	0.48
14:BE:213:LYS:O	14:BE:217:TYR:CD1	2.66	0.48
7:B7:30:GLY:O	7:B7:39:ASN:ND2	2.47	0.48
14:AE:189:LEU:CD2	14:AE:219:LEU:HD11	2.43	0.48
22:AM:18:LEU:HB2	22:AM:21:ASN:HD22	1.79	0.48
10:BA:1475:G:H2'	10:BA:1476:A:C8	2.49	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AG:72:MET:HE2	16:AG:81:LYS:HA	1.96	0.48
13:AD:71:PHE:CE2	32:AW:250:ILE:CG2	2.97	0.48
10:BA:772:A:H2	32:BW:250:ILE:HG21	1.79	0.48
18:BI:41:ILE:HG22	18:BI:42:ASN:N	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:1523:U:H5''	28:BS:48:ARG:HH12	1.78	0.48
10:AA:746:A:C4	10:AA:747:G:C8	3.01	0.48
10:BA:1159:U:H3	10:BA:1170:G:H1	1.62	0.48
10:BA:645:C:O2'	10:BA:646:A:H5'	2.14	0.48
10:BA:466:A:N6	13:BD:40:ARG:HH22	2.08	0.48
10:AA:635:U:O2'	10:AA:636:G:H5'	2.14	0.48
10:AA:623:U:C6	10:AA:623:U:C3'	2.96	0.48
7:B7:11:ARG:C	7:B7:15:GLN:NE2	2.67	0.48
27:AR:22:ASP:HB3	27:AR:47:ARG:HB2	1.96	0.48
27:BR:265:PRO:C	27:BR:266:LYS:HG3	2.34	0.48
27:BR:186:TYR:HB2	27:BR:199:TRP:O	2.14	0.48
21:AL:69:LYS:NZ	21:AL:92:LEU:HB3	2.29	0.48
2:B2:64:ARG:HH22	10:BA:323:U:P	2.36	0.48
10:BA:328:G:H2'	26:BQ:132:LYS:HZ3	1.76	0.48
10:AA:905:C:O2'	20:AK:138:ASP:HB2	2.13	0.48
10:BA:494:A:H2'	10:BA:495:C:H4'	1.95	0.48
10:AA:1736:C:H2'	10:AA:1737:C:C6	2.49	0.48
10:BA:193:C:H2'	10:BA:194:G:H8	1.79	0.48
5:B5:57:LEU:CG	5:B5:58:ALA:N	2.76	0.48
10:BA:1482:C:O2'	29:BT:127:LYS:CD	2.52	0.48
31:BV:47:ARG:HD2	31:BV:48:ASN:N	2.28	0.48
2:B2:39:THR:O	2:B2:39:THR:HG22	2.14	0.48
32:BW:101:PHE:HA	32:BW:114:LYS:O	2.13	0.48
32:BW:52:LEU:HB3	32:BW:54:TYR:CD1	2.48	0.48
32:AW:124:LYS:HZ1	32:AW:145:ASP:CG	2.17	0.48
10:AA:1279:U:H2'	10:AA:1280:G:H5'	1.96	0.48
27:BR:57:TYR:HB3	27:BR:60:GLU:HB2	1.96	0.48
21:AL:29:PHE:CZ	21:AL:33:LEU:HD12	2.49	0.48
10:BA:98:U:H6	10:BA:98:U:H3'	1.78	0.48
10:BA:240:G:N2	10:BA:248:A:H1'	2.28	0.48
12:AC:156:LYS:HE3	12:AC:160:MET:HG2	1.96	0.48
10:BA:1299:C:H2'	10:BA:1300:G:H8	1.78	0.48
16:AG:107:PHE:HA	16:AG:172:ILE:HG23	1.96	0.48
10:BA:1063:A:O2'	10:BA:1064:A:P	2.72	0.48
14:AE:33:LEU:HD22	14:AE:53:ILE:CG2	2.44	0.48
24:BO:30:MET:O	24:BO:31:THR:C	2.49	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B9:105:ASN:O	9:B9:107:GLY:N	2.47	0.48
12:AC:82:TYR:C	12:AC:84:ASP:N	2.67	0.48
20:BK:106:LYS:NZ	20:BK:136:PRO:HD2	2.29	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:1256:C:O2'	10:AA:1257:U:OP2	2.26	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
35:AZ:18:ASN:O	35:AZ:21:LYS:N	2.47	0.48
3:A3:155:LEU:HD13	3:A3:163:LEU:HD13	1.95	0.48
32:AW:216:LYS:HG2	32:AW:216:LYS:O	2.13	0.48
10:BA:737:A:H8	10:BA:737:A:O5'	1.97	0.48
35:BZ:14:THR:OG1	35:BZ:23:LYS:HE2	2.14	0.48
10:AA:14:C:O2	10:AA:613:A:H2	1.97	0.47
10:AA:1508:G:C2	10:AA:1510:U:N3	2.82	0.47
22:AM:41:ARG:NE	29:AT:41:THR:HG22	2.29	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:1027:U:C2'	10:AA:1028:G:C5'	2.91	0.47
10:AA:1044:C:H5''	10:AA:1044:C:H6	1.79	0.47
10:BA:141:A:N6	10:BA:142:A:C5	2.82	0.47
10:AA:1199:G:H5''	10:AA:1200:G:C3'	2.43	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
22:BM:1:MET:H3	22:BM:3:PHE:HE2	1.58	0.47
23:BN:39:ARG:HH11	23:BN:39:ARG:HG2	1.79	0.47
19:BJ:61:LEU:HD22	23:BN:33:TYR:OH	2.13	0.47
30:AU:124:LEU:O	30:AU:125:LYS:HG3	2.14	0.47
10:AA:1605:A:HO2'	10:AA:1606:C:P	2.32	0.47
18:BI:27:GLY:H	18:BI:65:LEU:HA	1.79	0.47
6:B6:9:ILE:HB	6:B6:12:GLU:CG	2.33	0.47
4:A4:34:PHE:CD2	4:A4:45:PHE:O	2.65	0.47
26:AQ:74:VAL:HG13	26:AQ:83:VAL:CG1	2.44	0.47
3:A3:93:PHE:HD2	3:A3:173:ILE:CD1	2.27	0.47
10:AA:77:G:H2'	10:AA:78:C:C6	2.48	0.47
10:BA:77:G:H2'	10:BA:78:C:C6	2.48	0.47
27:BR:269:TRP:HB3	27:BR:281:PHE:O	2.14	0.47
16:AG:95:ILE:HG21	16:AG:103:PRO:CB	2.43	0.47
10:AA:90:U:P	32:AW:3:ARG:HD2	2.53	0.47
32:AW:88:LEU:HD12	32:AW:104:LEU:HD23	1.95	0.47
12:AC:121:ALA:O	12:AC:125:ILE:HD12	2.13	0.47
21:AL:52:VAL:HG22	21:AL:71:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:71:ASN:HA	32:AW:95:GLU:HB3	1.96	0.47
32:AW:95:GLU:O	32:AW:97:THR:N	2.47	0.47
27:AR:57:TYR:HB3	27:AR:60:GLU:HB2	1.96	0.47
13:BD:45:VAL:HG11	13:BD:101:ILE:HG23	1.94	0.47
32:AW:10:LYS:O	32:AW:13:ASN:N	2.45	0.47
22:AM:54:PRO:HG2	22:AM:55:ASN:N	2.24	0.47
16:AG:152:GLY:HA2	16:AG:184:TRP:HD1	1.78	0.47
10:BA:1014:A:C2	10:BA:1015:C:N1	2.82	0.47
16:BG:70:THR:HB	16:BG:150:ILE:CD1	2.44	0.47
11:BB:179:LYS:HE3	11:BB:191:TRP:HH2	1.79	0.47
18:AI:98:TYR:CD1	18:AI:98:TYR:N	2.82	0.47
29:AT:25:HIS:CE1	29:AT:28:LYS:HZ1	2.32	0.47
4:B4:75:LEU:O	4:B4:79:SER:CB	2.62	0.47
10:AA:372:C:H5'	10:AA:372:C:C6	2.49	0.47
29:BT:72:PRO:O	29:BT:73:HIS:CB	2.61	0.47
22:BM:143:ARG:O	22:BM:144:HIS:HB2	2.13	0.47
15:BF:78:ARG:HH12	15:BF:100:GLY:CA	2.26	0.47
10:AA:829:U:H2'	10:AA:830:G:C8	2.50	0.47
5:B5:69:LEU:HD11	20:BK:108:PRO:HD3	1.95	0.47
11:AB:198:PHE:HD1	11:AB:198:PHE:H	1.62	0.47
20:AK:30:VAL:HG12	20:AK:30:VAL:O	2.14	0.47
22:AM:144:HIS:O	22:AM:145:GLY:C	2.52	0.47
34:BY:231:SER:O	34:BY:235:VAL:HG23	2.14	0.47
18:AI:142:LYS:HB3	18:AI:144:TYR:HE1	1.78	0.47
10:BA:1519:U:O2	10:BA:1519:U:H2'	2.13	0.47
25:BP:104:SER:HB3	25:BP:128:LYS:HE3	1.96	0.47
14:AE:207:THR:HG22	14:AE:207:THR:O	2.12	0.47
14:BE:184:ILE:CG2	14:BE:212:LEU:CD2	2.92	0.47
14:BE:155:ILE:HD11	14:BE:197:ILE:HG21	1.97	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:1558:A:C5	10:AA:1583:A:C6	3.02	0.47
10:BA:499:A:H5''	10:BA:500:U:OP1	2.14	0.47
10:AA:445:U:C2'	10:AA:445:U:O2	2.61	0.47
10:BA:757:C:H2'	10:BA:758:A:O4'	2.14	0.47
10:AA:844:G:C2'	10:AA:845:G:H5'	2.44	0.47
10:AA:935:G:C5	10:AA:936:U:C5	3.01	0.47
4:B4:124:ILE:HB	4:B4:144:ALA:HB3	1.94	0.47
10:BA:1584:U:C2'	10:BA:1585:U:H5'	2.43	0.47
10:BA:1376:A:OP1	16:BG:55:LYS:HE2	2.14	0.47
16:BG:63:ILE:O	16:BG:66:ARG:HB2	2.14	0.47
10:BA:133:A:C5'	10:BA:134:C:H5'	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:113:VAL:HB	13:AD:125:SER:OG	2.14	0.47
10:BA:837:A:C4	24:BO:75:ARG:NH2	2.82	0.47
10:BA:941:A:O4'	10:BA:941:A:OP2	2.32	0.47
10:BA:1713:G:H1'	10:BA:1734:A:H2	1.79	0.47
10:BA:1486:U:H5''	10:BA:1487:A:O5'	2.14	0.47
13:BD:113:VAL:HB	13:BD:125:SER:OG	2.14	0.47
14:AE:224:ARG:CD	35:AZ:40:PHE:CZ	2.93	0.47
9:A9:97:ALA:HB1	30:AU:29:LEU:HD13	1.95	0.47
10:AA:1566:G:N1	10:AA:1572:A:N6	2.62	0.47
22:BM:93:LYS:HE2	28:BS:41:LEU:CD2	2.44	0.47
10:BA:1198:A:N3	10:BA:1228:A:H2	2.13	0.47
27:AR:241:ASP:O	27:AR:245:LEU:CD2	2.61	0.47
3:B3:174:TYR:CD2	3:B3:182:VAL:HG21	2.49	0.47
5:A5:58:ALA:CB	20:AK:125:LYS:HB3	2.42	0.47
26:AQ:56:LYS:HD3	26:AQ:130:ILE:HG21	1.95	0.47
33:AX:47:PRO:O	33:AX:51:ALA:HB2	2.14	0.47
4:B4:90:VAL:HG23	4:B4:104:TYR:CB	2.44	0.47
31:AV:29:HIS:HA	31:AV:32:LYS:CD	2.32	0.47
33:AX:7:THR:HG22	33:AX:8:LEU:H	1.78	0.47
10:AA:246:U:H2'	26:AQ:62:ASN:HD22	1.78	0.47
10:BA:1139:G:H1	10:BA:1550:U:H3	1.63	0.47
5:B5:15:ARG:HB3	10:BA:915:C:N4	2.29	0.47
2:B2:22:ARG:CD	2:B2:25:ARG:CZ	2.91	0.47
32:AW:181:ASN:O	32:AW:196:ILE:HA	2.13	0.47
21:BL:71:VAL:CG2	21:BL:95:LEU:HD13	2.36	0.47
32:AW:108:LYS:HG3	32:AW:110:ARG:NH2	2.27	0.47
25:AP:98:LYS:CD	25:AP:98:LYS:N	2.68	0.47
10:BA:900:A:H2'	10:BA:901:A:C8	2.49	0.47
34:AY:90:GLY:C	34:AY:92:ARG:N	2.67	0.47
11:AB:31:ARG:HG3	11:AB:31:ARG:HH11	1.79	0.47
10:AA:898:U:O2'	10:AA:899:U:H5'	2.14	0.47
15:BF:26:ARG:HG3	15:BF:32:PHE:CZ	2.49	0.47
10:BA:1657:G:H2'	10:BA:1658:A:H8	1.78	0.47
8:B8:27:LYS:HD3	8:B8:27:LYS:H	1.78	0.47
9:A9:86:THR:CG2	9:A9:87:LYS:H	2.24	0.47
10:BA:1651:G:H1'	10:BA:1674:A:H62	1.78	0.47
20:AK:103:VAL:HG12	20:AK:142:ARG:CD	2.45	0.47
10:BA:272:U:H2'	10:BA:273:A:C5'	2.45	0.47
7:B7:55:LEU:HG	7:B7:66:TYR:HB3	1.96	0.47
12:AC:105:VAL:HG22	12:AC:189:VAL:CG2	2.43	0.47
10:BA:1119:G:O2'	10:BA:1607:A:N1	2.40	0.47
10:AA:1100:U:H2'	10:AA:1101:C:H5'	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:213:VAL:HG22	31:BV:40:GLN:O	2.14	0.47
28:BS:85:TYR:H	28:BS:85:TYR:HD1	1.61	0.47
16:AG:183:SER:C	16:AG:185:ALA:N	2.63	0.47
8:A8:34:LYS:HD2	8:A8:36:LYS:H	1.79	0.47
10:BA:1288:C:OP1	31:BV:7:LYS:HB2	2.14	0.47
30:AU:42:LEU:O	30:AU:43:PHE:HB2	2.13	0.47
31:BV:101:GLU:O	31:BV:104:GLU:HB2	2.14	0.47
12:BC:5:THR:HG22	12:BC:6:ARG:N	2.28	0.47
10:AA:1394:U:OP1	12:AC:154:LYS:NZ	2.46	0.47
10:BA:620:U:O2'	10:BA:621:C:H5'	2.13	0.47
32:BW:129:THR:HB	32:BW:142:VAL:HG12	1.96	0.47
10:AA:1580:U:H5'	18:AI:74:SER:HB2	1.95	0.47
10:AA:141:A:N6	10:AA:142:A:C5	2.82	0.47
10:AA:86:C:H2'	10:AA:87:G:H5'	1.96	0.47
34:AY:149:LYS:O	34:AY:151:ASP:N	2.48	0.47
10:AA:764:U:C4'	10:AA:765:A:O5'	2.61	0.47
10:BA:1122:G:H1	10:BA:1600:U:H3	1.62	0.47
10:BA:1613:C:H2'	10:BA:1614:G:C8	2.49	0.47
10:BA:1123:G:H1	10:BA:1720:G:H4'	1.79	0.47
16:AG:193:GLU:O	16:AG:197:LYS:N	2.46	0.47
10:BA:426:G:C5'	21:BL:77:LYS:HB2	2.45	0.47
10:BA:80:A:C2'	10:BA:81:A:O4'	2.62	0.47
10:AA:1359:C:C2'	10:AA:1359:C:O2	2.61	0.47
6:B6:31:MET:HE1	6:B6:71:ILE:HD11	1.94	0.47
10:BA:837:A:O2'	10:BA:838:U:OP2	2.32	0.47
10:AA:645:C:O2'	10:AA:646:A:H5'	2.14	0.47
9:A9:146:UNK:HG3	9:A9:146:UNK:O	2.13	0.47
3:A3:102:SER:OG	3:A3:105:VAL:HB	2.13	0.47
10:AA:1439:U:H5'	29:AT:91:ASN:O	2.14	0.47
10:AA:1168:A:H2'	10:AA:1574:C:O2'	2.14	0.47
28:BS:42:PHE:CD2	28:BS:118:GLY:HA2	2.49	0.47
10:BA:955:A:H2	10:BA:956:A:N3	2.11	0.47
3:B3:127:LEU:HG	3:B3:174:TYR:CZ	2.48	0.47
10:AA:311:U:O2'	10:AA:312:C:C5	2.62	0.47
10:BA:685:A:H2	10:BA:716:G:O6	1.96	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
10:BA:246:U:H5''	10:BA:247:C:OP2	2.15	0.47
26:BQ:74:VAL:HG13	26:BQ:83:VAL:CG1	2.44	0.47
4:B4:34:PHE:CD2	4:B4:45:PHE:O	2.64	0.47
28:AS:46:THR:CG2	28:AS:89:ILE:HD13	2.42	0.47
25:BP:107:GLU:O	25:BP:110:ARG:CB	2.56	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(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
14:AE:35:ARG:NH2	14:AE:252:ALA:H	2.10	0.47
32:AW:127:LYS:O	32:AW:143:THR:HG23	2.15	0.47
4:A4:130:CYS:HB3	4:A4:182:ALA:CB	2.44	0.47
11:BB:2:ALA:HB1	35:BZ:97:GLU:CG	2.44	0.47
14:BE:27:TRP:HH2	14:BE:57:GLU:CD	2.17	0.47
14:BE:102:PHE:CD2	14:BE:116:TRP:HB3	2.49	0.47
31:BV:102:THR:HG22	31:BV:106:LEU:HD11	1.97	0.47
17:BH:56:HIS:CE1	24:BO:22:ARG:NE	2.82	0.47
9:B9:128:HIS:CE1	10:BA:1222:U:H1'	2.49	0.47
27:AR:272:VAL:O	27:AR:278:VAL:HG13	2.14	0.47
10:AA:514:G:C2'	10:AA:515:U:H5'	2.44	0.47
13:BD:171:ARG:HG2	13:BD:175:LYS:HZ1	1.79	0.47
31:AV:114:ILE:HG22	31:AV:115:PRO:HD3	1.96	0.47
11:BB:156:VAL:CG2	35:BZ:80:HIS:CB	2.93	0.47
10:BA:1163:U:H2'	10:BA:1164:C:C6	2.49	0.47
10:AA:777:U:C2'	10:AA:777:U:O2	2.61	0.47
27:AR:67:ILE:HG23	27:AR:68:PRO:HD2	1.95	0.47
17:AH:95:PRO:HD3	17:AH:130:TYR:CD2	2.48	0.47
10:AA:728:U:H2'	10:AA:729:U:H5'	1.95	0.47
4:A4:116:MET:HE3	4:A4:215:ASN:HB3	1.96	0.47
10:BA:932:G:H5''	24:BO:7:LYS:HZ3	1.78	0.47
11:BB:168:SER:HB2	11:BB:198:PHE:HB2	1.95	0.47
21:AL:131:LEU:O	21:AL:134:LEU:N	2.48	0.47
7:A7:100:ILE:HD13	12:AC:62:ILE:HD11	1.95	0.47
4:B4:174:ILE:O	4:B4:178:ILE:HG13	2.14	0.47
10:BA:923:U:O5'	10:BA:923:U:H6	1.96	0.47
11:BB:73:CYS:HB2	11:BB:121:THR:HG1	1.79	0.47
10:AA:18:C:H4'	10:AA:1110:A:N6	2.29	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
14:AE:142:LYS:HB3	14:AE:152:ALA:HB1	1.96	0.47
26:AQ:97:ASN:C	26:AQ:98:ARG:HG2	2.34	0.47
10:BA:14:C:H2'	10:BA:14:C:O2	2.15	0.47
10:AA:537:A:O2'	10:AA:538:A:O5'	2.33	0.47
8:A8:60:VAL:HG12	8:A8:68:THR:HB	1.96	0.47
10:AA:1585:U:H5	16:AG:52:GLN:HE22	1.61	0.47
16:AG:62:PRO:O	16:AG:65:GLU:N	2.44	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
4:B4:123:LEU:HD12	4:B4:124:ILE:H	1.78	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:844:G:C2'	10:BA:845:G:H5'	2.43	0.47
24:AO:141:TRP:O	24:AO:142:LYS:HG3	2.13	0.47
24:AO:142:LYS:O	24:AO:147:THR:OG1	2.32	0.47
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
10:AA:877:G:N2	10:AA:878:A:N3	2.62	0.47
1:B1:29:VAL:HG23	1:B1:41:LEU:O	2.15	0.47
9:A9:152:UNK:HA	9:A9:155:UNK:CG	2.43	0.47
12:BC:14:PHE:O	12:BC:17:ASP:HB2	2.14	0.47
3:B3:144:ARG:NH2	35:BZ:3:SER:HB2	2.04	0.47
11:AB:5:ARG:HD3	11:AB:187:LYS:HZ2	1.80	0.47
3:A3:178:THR:HB	3:A3:179:THR:H	1.52	0.47
35:BZ:31:LYS:NZ	35:BZ:36:ASN:HD21	2.12	0.47
27:AR:134:LEU:HD11	27:AR:203:PHE:CZ	2.49	0.47
10:AA:327:G:O2'	10:AA:328:G:H5''	2.13	0.47
10:BA:306:A:C1'	10:BA:344:A:N6	2.77	0.47
10:BA:309:U:C2'	10:BA:310:C:C5'	2.84	0.47
10:BA:306:A:N6	10:BA:343:C:O2	2.47	0.47
10:BA:477:G:C2	10:BA:496:G:N3	2.82	0.47
10:AA:232:G:H2'	10:AA:233:U:O4'	2.15	0.47
10:BA:751:U:O5'	10:BA:751:U:H6	1.98	0.47
10:AA:306:A:O2'	10:AA:307:G:O4'	2.28	0.47
14:AE:41:LYS:O	14:AE:42:ILE:CG1	2.53	0.47
32:AW:188:GLY:H	32:AW:191:ILE:CG2	2.27	0.47
32:BW:240:LEU:HD12	32:BW:245:GLY:H	1.79	0.47
32:BW:72:VAL:O	32:BW:72:VAL:HG23	2.13	0.47
10:AA:431:U:N1	10:AA:457:G:N2	2.63	0.47
15:AF:36:GLU:HB3	15:AF:70:VAL:CG2	2.37	0.47
10:AA:730:A:C2	10:AA:731:C:C2	3.03	0.47
14:BE:233:LYS:CD	14:BE:234:PRO:HD2	2.44	0.47
32:AW:56:LEU:HB3	32:AW:57:ASN:H	1.58	0.47
9:A9:85:LYS:CG	9:A9:86:THR:N	2.74	0.47
10:BA:981:A:O2'	10:BA:982:U:C5'	2.61	0.47
19:AJ:21:ILE:HD11	19:AJ:91:LEU:HD11	1.97	0.47
9:B9:131:ARG:HD2	9:B9:140:THR:HG22	1.96	0.47
26:BQ:146:ILE:HG23	26:BQ:153:GLN:NE2	2.22	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
4:B4:50:VAL:CG1	4:B4:51:THR:N	2.77	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BS:32:LYS:O	28:BS:34:ILE:N	2.47	0.47
10:AA:1266:G:H1	10:AA:1275:U:H3	1.63	0.47
12:AC:140:ILE:HB	12:AC:188:LYS:HB2	1.97	0.47
10:AA:101:A:H2'	10:AA:102:A:C8	2.50	0.47
10:AA:1385:U:C2'	10:AA:1386:U:OP1	2.63	0.47
10:BA:350:A:H5''	10:BA:351:A:H5''	1.96	0.47
10:AA:736:A:OP2	32:AW:189:ASN:CG	2.53	0.47
24:AO:43:ALA:CB	24:AO:82:CYS:SG	3.03	0.47
10:AA:653:U:H3	10:AA:656:G:N2	2.12	0.47
12:AC:24:LEU:O	12:AC:28:PHE:HD2	1.97	0.47
29:AT:29:ALA:HB1	29:AT:31:LYS:HE3	1.97	0.47
10:BA:106:U:OP1	10:BA:736:A:O2'	2.32	0.47
27:AR:128:PRO:CB	27:AR:173:ILE:HD12	2.44	0.47
10:BA:1057:G:N2	10:BA:1061:U:N3	2.62	0.47
3:B3:66:HIS:ND1	3:B3:67:PHE:N	2.62	0.47
11:BB:148:SER:O	11:BB:150:LEU:N	2.47	0.47
13:AD:150:THR:HG22	13:AD:151:ASP:N	2.29	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
29:BT:45:VAL:H	29:BT:100:HIS:CE1	2.32	0.47
10:BA:533:G:C2'	10:BA:534:A:C5'	2.93	0.47
10:AA:73:A:C6	34:AY:162:ARG:NH1	2.83	0.47
29:AT:45:VAL:H	29:AT:100:HIS:CE1	2.32	0.47
10:BA:761:U:H3	10:BA:764:U:H2'	1.77	0.47
10:BA:761:U:O2'	10:BA:762:U:C5'	2.63	0.47
10:BA:1714:U:HO2'	10:BA:1715:A:H5'	1.78	0.47
29:BT:15:ALA:HB3	29:BT:66:ARG:CZ	2.44	0.47
10:AA:1004:A:H4'	10:AA:1006:C:C4	2.49	0.47
10:AA:1608:C:C4'	10:AA:1609:C:C5'	2.84	0.47
4:B4:128:VAL:HG22	4:B4:175:ASN:CG	2.34	0.47
10:BA:876:A:HO2'	10:BA:877:G:P	2.37	0.47
10:AA:1225:U:OP2	30:AU:30:HIS:HE1	1.98	0.47
22:BM:18:LEU:HD21	22:BM:70:THR:HG23	1.97	0.47
8:A8:32:LYS:N	15:BF:42:PHE:HA	2.28	0.47
4:A4:66:ARG:NH1	20:AK:48:SER:OG	2.47	0.47
11:AB:5:ARG:CG	11:AB:187:LYS:NZ	2.77	0.47
10:AA:1402:C:OP1	10:AA:1403:U:H3'	2.14	0.47
10:AA:1155:A:N6	10:AA:1156:A:N6	2.63	0.47
23:AN:31:THR:O	23:AN:31:THR:HG22	2.13	0.47
27:AR:159:GLU:HB3	27:AR:199:TRP:CH2	2.50	0.47
10:AA:312:C:C4'	10:AA:313:G:O5'	2.57	0.47
10:AA:577:C:O2	10:AA:577:C:H2'	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:679:U:H2'	10:BA:680:U:O4'	2.14	0.47
10:BA:1021:A:H2'	10:BA:1022:U:O4'	2.15	0.47
10:AA:1613:C:H2'	10:AA:1614:G:C8	2.48	0.47
10:BA:570:G:O4'	10:BA:574:A:H2	1.97	0.47
10:AA:302:U:O2'	10:AA:303:A:H5''	2.15	0.47
10:AA:341:G:O4'	10:AA:343:C:O2	2.33	0.47
2:B2:145:ARG:HH21	10:BA:191:A:N6	2.12	0.47
14:AE:44:SER:HB2	14:AE:47:GLU:HB2	1.94	0.47
10:AA:455:C:H6	10:AA:455:C:C5'	2.20	0.47
32:AW:91:VAL:HA	32:AW:101:PHE:O	2.15	0.47
14:AE:27:TRP:CE2	14:AE:59:GLU:HB2	2.50	0.47
10:BA:551:U:O4	33:BX:62:TRP:HB2	2.14	0.47
10:AA:98:U:C6	10:AA:98:U:H3'	2.49	0.47
30:BU:89:ASN:CG	30:BU:90:ALA:N	2.67	0.47
19:BJ:19:VAL:HG21	19:BJ:98:VAL:HG21	1.96	0.47
8:B8:30:TRP:O	8:B8:31:THR:OG1	2.24	0.47
15:AF:42:PHE:HD2	8:B8:31:THR:OG1	1.98	0.47
15:AF:26:ARG:HG3	15:AF:32:PHE:CZ	2.49	0.47
19:AJ:20:ARG:O	19:AJ:114:LEU:HA	2.15	0.47
10:AA:1352:A:O2'	10:AA:1353:G:O5'	2.28	0.47
35:BZ:34:TRP:C	35:BZ:34:TRP:CE3	2.88	0.47
25:AP:27:HIS:N	25:AP:28:PRO:CD	2.77	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
10:AA:1017:C:H2'	10:AA:1018:G:C5'	2.44	0.47
27:AR:139:GLU:O	27:AR:140:ARG:HB2	2.14	0.47
26:BQ:3:THR:HG21	26:BQ:51:THR:C	2.35	0.47
19:BJ:27:ASN:ND2	19:BJ:29:LYS:HD2	2.29	0.47
11:BB:121:THR:CG2	11:BB:143:LEU:HD12	2.44	0.47
2:B2:73:PHE:HA	2:B2:188:GLY:O	2.14	0.47
3:B3:26:LEU:HD23	3:B3:87:LYS:NZ	2.30	0.47
27:BR:221:ILE:HG12	27:BR:228:ILE:HG12	1.95	0.47
27:AR:299:ILE:HG13	27:AR:330:ASP:HB2	1.95	0.47
22:BM:123:ARG:HH11	22:BM:123:ARG:CG	2.28	0.47
18:AI:55:LEU:HD23	18:AI:55:LEU:N	2.29	0.47
34:AY:145:PHE:CD1	34:AY:145:PHE:N	2.82	0.47
10:AA:1:A:H4'	10:AA:1:A:OP3	2.14	0.47
14:AE:81:VAL:O	14:AE:82:LEU:HD23	2.14	0.47
10:BA:2:A:O2'	14:BE:199:THR:O	2.29	0.47
14:BE:81:VAL:CG1	14:BE:82:LEU:N	2.77	0.47
10:AA:589:G:C6	10:AA:590:C:N4	2.82	0.47
29:BT:41:THR:HG23	29:BT:50:ALA:CB	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1560:G:O2'	10:AA:1561:U:H5'	2.14	0.47
10:BA:761:U:C5	10:BA:764:U:N3	2.82	0.47
10:BA:1608:C:N3	10:BA:1610:G:N3	2.62	0.47
10:AA:849:A:H61	10:AA:933:A:N6	2.12	0.47
10:AA:934:U:C2'	10:AA:935:G:H5'	2.44	0.47
18:BI:46:LEU:O	18:BI:49:LYS:HB2	2.14	0.47
20:AK:78:ALA:HB1	20:AK:119:LEU:CD1	2.45	0.47
10:BA:1580:U:H2'	10:BA:1581:U:H6	1.79	0.47
14:BE:224:ARG:HD2	35:BZ:40:PHE:CZ	2.43	0.47
10:AA:466:A:H4'	13:AD:130:ARG:NH2	2.30	0.47
10:AA:1223:U:O2'	10:AA:1224:C:O5'	2.32	0.47
10:AA:894:U:O4'	10:AA:894:U:OP2	2.32	0.47
13:BD:38:ASN:HD22	13:BD:40:ARG:HG2	1.80	0.47
35:AZ:40:PHE:HB2	35:AZ:43:ASP:CB	2.27	0.47
10:AA:1253:G:H5''	19:AJ:76:THR:OG1	2.15	0.47
10:AA:1173:G:O2'	10:AA:1174:A:OP1	2.30	0.47
10:AA:624:A:H2'	10:AA:625:G:H5'	1.96	0.47
10:AA:477:G:C6	10:AA:496:G:C2	3.03	0.47
10:BA:319:A:P	26:BQ:55:LYS:HE3	2.54	0.47
8:A8:46:GLU:HB2	22:AM:7:LYS:CE	2.42	0.47
10:BA:1136:G:O2'	10:BA:1137:A:H5'	2.14	0.47
32:BW:71:ASN:HA	32:BW:95:GLU:HB3	1.97	0.47
10:AA:181:G:N2	10:AA:194:G:C4	2.82	0.47
11:BB:2:ALA:CB	35:BZ:97:GLU:HB2	2.44	0.47
10:AA:1286:U:O2'	10:AA:1287:U:OP2	2.31	0.47
10:AA:866:U:C2'	10:AA:867:U:H5''	2.45	0.47
10:BA:782:A:H3'	10:BA:782:A:C8	2.49	0.47
10:BA:381:G:N2	10:BA:398:A:C6	2.83	0.47
10:AA:781:C:H5'	10:AA:782:A:OP2	2.15	0.47
21:AL:29:PHE:O	21:AL:33:LEU:HB2	2.14	0.47
10:BA:554:U:H2'	10:BA:555:G:H8	1.80	0.47
15:AF:32:PHE:CE2	15:AF:72:LYS:HE2	2.49	0.47
17:BH:121:THR:HG22	17:BH:122:GLY:O	2.15	0.47
28:AS:85:TYR:H	28:AS:85:TYR:HD1	1.63	0.47
7:A7:63:PHE:CE2	12:AC:79:ARG:HD2	2.48	0.47
10:AA:1086:G:O2'	10:AA:1087:U:P	2.72	0.47
24:AO:60:HIS:O	24:AO:62:ILE:N	2.48	0.47
10:BA:932:G:C5'	24:BO:7:LYS:NZ	2.78	0.47
9:B9:123:ILE:HD11	9:B9:136:LYS:HD2	1.95	0.47
10:AA:350:A:H5''	10:AA:351:A:H5'	1.97	0.47
31:AV:89:SER:O	31:AV:91:ILE:N	2.48	0.47
10:BA:653:U:H3	10:BA:656:G:N2	2.12	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:774:A:H2'	10:AA:775:C:C6	2.49	0.47
16:BG:47:THR:HG22	16:BG:47:THR:O	2.14	0.47
7:B7:30:GLY:C	7:B7:39:ASN:ND2	2.68	0.47
11:BB:73:CYS:CB	11:BB:121:THR:HG1	2.27	0.47
34:AY:231:SER:O	34:AY:235:VAL:HG23	2.14	0.47
26:BQ:41:PHE:CE2	26:BQ:139:LEU:HB2	2.50	0.47
10:AA:463:A:C2	10:AA:464:G:C8	3.03	0.47
26:BQ:57:CYS:SG	26:BQ:58:PRO:HD2	2.55	0.47
10:AA:11:A:C2'	10:AA:12:U:H5'	2.45	0.47
10:AA:604:G:OP2	21:AL:19:ARG:HD2	2.15	0.47
10:AA:1:A:H2'	14:AE:180:VAL:HG12	1.95	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:3:C:O2'	14:BE:182:ALA:N	2.47	0.47
10:AA:538:A:H4'	10:AA:539:U:OP1	2.14	0.47
8:A8:60:VAL:HG13	8:A8:72:LYS:HG3	1.97	0.47
16:AG:72:MET:CE	16:AG:81:LYS:HB2	2.44	0.47
10:AA:1557:U:C4	10:AA:1583:A:N6	2.82	0.47
16:AG:45:PRO:HB2	16:AG:68:ILE:HD12	1.97	0.47
10:BA:533:G:H2'	10:BA:534:A:C5'	2.45	0.47
10:AA:134:C:O2'	10:AA:135:A:P	2.72	0.47
10:AA:72:G:C2	10:AA:75:C:C4	3.03	0.47
10:AA:66:A:N6	10:AA:67:G:C2	2.83	0.47
10:BA:761:U:C4	10:BA:764:U:O2	2.68	0.47
10:AA:44:U:O2'	10:AA:45:A:OP2	2.26	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
1:A1:7:THR:HG21	1:A1:31:LEU:HD22	1.95	0.47
10:BA:1580:U:H5''	18:BI:74:SER:CB	2.44	0.47
10:AA:1008:A:C4'	10:AA:1009:U:OP2	2.63	0.47
10:AA:1717:C:C2'	10:AA:1718:A:H5''	2.45	0.47
10:BA:425:A:H2'	10:BA:426:G:O4'	2.15	0.47
10:BA:1279:U:H2'	10:BA:1280:G:H5'	1.96	0.47
10:BA:1262:U:H5'	14:BE:96:ARG:NH2	2.29	0.47
10:BA:58:G:O4'	10:BA:444:A:C8	2.68	0.47
31:AV:5:ARG:HG2	31:AV:10:LYS:HE2	1.97	0.47
10:AA:1199:G:O2'	10:AA:1200:G:OP1	2.32	0.47
23:BN:13:TYR:CD1	23:BN:13:TYR:N	2.82	0.47
10:AA:882:G:N7	10:AA:883:A:C5	2.83	0.47
16:BG:117:ARG:HE	16:BG:189:LYS:HZ3	1.62	0.47
9:A9:158:UNK:HA	9:A9:161:UNK:CG	2.44	0.47
10:AA:126:A:H2'	10:AA:126:A:N3	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A9:160:UNK:O	9:A9:164:UNK:HG3	2.14	0.47
24:AO:96:LYS:HG3	24:AO:97:ALA:N	2.29	0.47
10:AA:1403:U:HO2'	10:AA:1404:G:P	2.34	0.47
19:AJ:67:LYS:HE2	19:AJ:78:ASP:OD1	2.15	0.47
28:BS:38:LEU:HA	28:BS:41:LEU:HD12	1.97	0.47
10:BA:633:U:O2'	10:BA:634:C:P	2.72	0.47
35:BZ:13:MET:HE1	35:BZ:31:LYS:HD3	1.94	0.47
10:BA:955:A:H2'	10:BA:956:A:O4'	2.13	0.47
14:AE:56:LYS:HA	14:AE:56:LYS:CE	2.30	0.47
3:B3:129:ASP:O	3:B3:132:LEU:CB	2.59	0.47
10:BA:1231:C:O2'	10:BA:1232:U:H5'	2.14	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
5:A5:45:VAL:HG12	5:A5:49:SER:HB3	1.96	0.47
27:BR:114:PHE:CZ	27:BR:133:ILE:HD13	2.50	0.47
2:B2:197:GLU:O	2:B2:201:ARG:HG3	2.14	0.47
10:BA:303:A:C2	10:BA:305:C:C2	3.03	0.47
10:BA:329:A:P	26:BQ:132:LYS:HG2	2.54	0.47
2:B2:91:TYR:HD2	2:B2:109:ILE:CD1	2.27	0.47
10:BA:343:C:O2'	10:BA:344:A:P	2.72	0.47
10:BA:318:U:H4'	26:BQ:11:LYS:HZ2	1.78	0.47
26:BQ:17:LEU:HD23	26:BQ:20:LYS:HZ1	1.79	0.47
31:BV:20:TYR:O	31:BV:21:TYR:C	2.53	0.47
10:AA:216:G:N2	10:AA:820:U:O2	2.47	0.47
4:B4:199:TYR:N	4:B4:199:TYR:CD1	2.82	0.47
26:AQ:128:ARG:HH11	26:AQ:128:ARG:HG2	1.79	0.47
10:BA:194:G:O2'	10:BA:195:G:H5'	2.15	0.47
26:AQ:18:ASN:HD22	26:AQ:18:ASN:N	2.11	0.47
8:B8:47:LYS:HD2	8:B8:48:LYS:HG3	1.95	0.47
10:AA:1263:G:N2	10:AA:1296:G:N1	2.52	0.47
27:BR:289:ALA:N	27:BR:290:PRO:CD	2.77	0.47
14:AE:239:LEU:HG	35:AZ:48:GLN:OE1	2.15	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
27:BR:218:HIS:HD2	27:BR:261:ILE:H	1.63	0.47
16:AG:16:LYS:HE3	16:AG:93:GLU:OE1	2.15	0.47
32:AW:126:LEU:HB3	32:AW:143:THR:CG2	2.45	0.47
32:AW:106:ASP:O	32:AW:192:GLY:HA3	2.15	0.47
10:AA:457:G:O2'	10:AA:458:U:H5'	2.15	0.47
10:AA:987:U:C4	10:AA:988:C:C5	3.02	0.47
10:BA:1044:C:H6	10:BA:1044:C:H5''	1.79	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:49:LYS:HE3	32:AW:61:VAL:CG2	2.45	0.47
27:AR:297:GLU:N	27:AR:298:PRO:CD	2.78	0.47
27:AR:56:LEU:HD11	27:AR:65:PHE:CE2	2.50	0.47
27:BR:15:GLY:CA	27:BR:65:PHE:HB2	2.37	0.47
10:AA:572:U:H6	10:AA:572:U:O5'	1.98	0.47
10:BA:987:U:C4	10:BA:988:C:C5	3.03	0.47
3:A3:81:ILE:HG23	3:A3:92:VAL:HB	1.95	0.47
34:BY:90:GLY:C	34:BY:92:ARG:N	2.68	0.47
29:BT:27:LYS:HG2	29:BT:58:TYR:CD2	2.50	0.47
12:BC:163:THR:CG2	12:BC:164:GLY:N	2.77	0.47
10:BA:430:A:O2'	10:BA:431:U:P	2.73	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
10:AA:413:C:N4	34:AY:91:PHE:CZ	2.83	0.47
10:AA:1654:U:O2	10:AA:1672:G:C2	2.68	0.47
11:AB:31:ARG:NH1	35:AZ:84:GLU:OE1	2.43	0.47
13:BD:123:HIS:O	13:BD:124:HIS:C	2.51	0.47
21:AL:75:LEU:HD11	21:AL:82:ILE:CD1	2.45	0.47
10:BA:1036:U:H5''	10:BA:1037:G:OP2	2.15	0.47
10:BA:449:G:O2'	10:BA:450:G:H5'	2.14	0.47
2:A2:175:CYS:HB3	2:A2:189:TYR:CE1	2.50	0.47
10:BA:786:A:HO2'	10:BA:787:A:P	2.36	0.47
30:AU:27:LYS:H	30:AU:31:GLU:HG2	1.78	0.47
27:AR:84:LEU:CD2	27:AR:91:ALA:HB2	2.44	0.47
14:AE:46:ASP:HA	14:AE:49:PHE:HD2	1.79	0.47
34:AY:14:LYS:HG3	34:AY:15:CYS:N	2.30	0.47
10:AA:1416:G:O2'	10:AA:1417:A:P	2.72	0.47
10:BA:1088:A:O2'	10:BA:1089:U:P	2.72	0.47
10:AA:1421:G:O2'	23:AN:6:TRP:CB	2.63	0.47
9:B9:116:CYS:SG	9:B9:137:CYS:SG	3.13	0.47
2:A2:80:ILE:HD11	2:A2:120:TRP:CZ3	2.50	0.47
18:AI:112:MET:HG2	18:AI:119:LEU:HD12	1.97	0.47
25:BP:146:PHE:O	25:BP:147:VAL:HG23	2.14	0.47
7:B7:91:THR:HG21	12:BC:71:GLU:HG2	1.97	0.47
25:BP:27:HIS:N	25:BP:28:PRO:CD	2.78	0.47
10:AA:123:A:C3'	10:AA:124:U:H6	2.27	0.47
10:BA:149:U:H4'	34:BY:59:ASP:HA	1.97	0.47
10:BA:729:U:C2	10:BA:789:A:C2	3.02	0.47
25:AP:112:ILE:HG23	25:AP:120:ILE:HG23	1.95	0.47
2:A2:66:LEU:HD23	2:A2:66:LEU:N	2.30	0.47
10:AA:1504:U:C2'	10:AA:1505:C:H5'	2.45	0.47
31:AV:77:GLU:C	31:AV:79:GLU:N	2.68	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:BH:95:PRO:HD3	17:BH:130:TYR:CD2	2.49	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:829:U:H2'	10:BA:830:G:C8	2.49	0.47
29:AT:72:PRO:O	29:AT:73:HIS:CB	2.63	0.47
10:AA:29:G:N2	10:AA:591:G:C4	2.83	0.47
32:AW:215:ALA:O	32:AW:217:GLY:N	2.48	0.47
10:AA:923:U:O5'	10:AA:923:U:H6	1.98	0.47
12:BC:141:ILE:HG22	12:BC:185:MET:CE	2.44	0.47
10:AA:1049:C:O2'	10:AA:1050:C:H5'	2.15	0.47
2:B2:21:HIS:CD2	2:B2:21:HIS:H	2.32	0.47
27:BR:139:GLU:O	27:BR:140:ARG:HB2	2.14	0.47
10:AA:1529:U:C2'	10:AA:1529:U:O2	2.63	0.47
27:BR:258:ILE:HG23	27:BR:272:VAL:HG13	1.97	0.47
32:AW:129:THR:N	32:AW:142:VAL:O	2.39	0.47
4:A4:85:ARG:HH22	4:A4:218:ILE:H	1.61	0.47
32:BW:129:THR:N	32:BW:142:VAL:O	2.41	0.47
23:AN:10:PRO:HB2	23:AN:12:ASN:HD22	1.80	0.47
32:AW:18:TRP:O	32:AW:19:MET:C	2.53	0.47
27:BR:76:ASN:OD1	27:BR:76:ASN:O	2.33	0.47
12:BC:229:THR:HG22	12:BC:231:VAL:HG23	1.95	0.47
34:AY:215:PHE:CZ	34:AY:219:TRP:HB2	2.50	0.47
17:AH:120:HIS:O	17:AH:120:HIS:CD2	2.68	0.47
25:BP:108:LEU:O	25:BP:112:ILE:HG13	2.14	0.47
35:AZ:30:ARG:HH21	35:AZ:39:ILE:HG21	1.79	0.47
34:BY:44:GLU:O	34:BY:119:ALA:HB1	2.14	0.47
10:BA:11:A:C2'	10:BA:12:U:H5'	2.45	0.47
10:BA:360:U:O2'	10:BA:361:A:P	2.73	0.47
22:AM:61:LEU:HB3	22:AM:65:GLN:CG	2.45	0.47
29:BT:43:THR:O	29:BT:100:HIS:CE1	2.68	0.47
10:AA:64:U:H5	10:AA:79:G:N1	2.13	0.47
18:BI:42:ASN:HB3	18:BI:43:PRO:CD	2.40	0.47
10:AA:45:A:H61	10:AA:425:A:H4'	1.78	0.47
34:BY:185:PRO:HA	34:BY:188:ILE:HD12	1.97	0.47
13:AD:131:GLN:H	13:AD:131:GLN:HG2	1.43	0.47
10:BA:630:A:OP1	17:BH:6:ILE:HD11	2.15	0.47
20:AK:69:SER:O	20:AK:70:SER:O	2.33	0.47
15:BF:48:MET:SD	15:BF:59:ALA:HB1	2.55	0.47
10:BA:931:A:OP1	24:BO:96:LYS:NZ	2.48	0.47
3:B3:144:ARG:NE	3:B3:144:ARG:HA	2.30	0.47
17:BH:49:GLU:HG2	17:BH:50:PHE:N	2.30	0.47
5:B5:46:ASP:O	5:B5:50:LYS:HG3	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:31:TRP:CD2	20:BK:18:PRO:HD3	2.50	0.47
3:B3:132:LEU:O	3:B3:133:PRO:C	2.53	0.47
10:AA:416:C:H4'	10:AA:418:G:OP1	2.15	0.47
10:BA:312:C:C4'	10:BA:313:G:O5'	2.55	0.47
31:BV:71:LEU:HB3	31:BV:74:GLN:HB2	1.97	0.47
22:AM:93:LYS:CA	22:AM:93:LYS:HE3	2.34	0.47
14:BE:244:PHE:N	14:BE:244:PHE:CD1	2.83	0.47
14:BE:44:SER:HB2	14:BE:47:GLU:HB2	1.96	0.47
3:A3:135:THR:HB	24:AO:23:ARG:NH1	2.29	0.47
10:AA:26:U:C3'	10:AA:27:A:C5'	2.93	0.47
14:AE:35:ARG:NH2	14:AE:251:LYS:HB2	2.30	0.47
2:B2:114:SER:CB	2:B2:172:ILE:HD11	2.45	0.47
32:BW:144:HIS:CG	32:BW:145:ASP:N	2.83	0.47
27:BR:218:HIS:CG	27:BR:219:LEU:N	2.83	0.47
27:AR:218:HIS:CD2	27:AR:261:ILE:H	2.31	0.47
32:AW:194:VAL:CG1	32:AW:230:LEU:HD23	2.45	0.47
32:AW:97:THR:HG22	32:AW:97:THR:O	2.14	0.47
17:AH:38:LEU:HA	17:AH:38:LEU:HD23	1.66	0.47
11:AB:99:TRP:NE1	11:AB:129:ALA:HB2	2.30	0.47
10:AA:97:U:C2'	10:AA:98:U:H5'	2.37	0.47
16:AG:152:GLY:O	16:AG:155:GLU:N	2.48	0.47
10:BA:1064:A:C2	10:BA:1066:G:C5	3.03	0.47
26:BQ:44:PRO:CG	26:BQ:47:ALA:HB2	2.43	0.47
11:BB:31:ARG:HG3	11:BB:32:TYR:CE1	2.50	0.47
18:BI:7:GLN:O	18:BI:25:ARG:HG3	2.14	0.47
7:B7:59:PHE:CD2	10:BA:1406:G:C4	3.03	0.47
25:BP:28:PRO:O	25:BP:29:ASP:CB	2.62	0.47
5:A5:87:ARG:NH1	10:AA:1126:C:H5''	2.30	0.47
2:B2:128:ASP:O	2:B2:129:LEU:CB	2.61	0.47
24:BO:68:LEU:O	24:BO:68:LEU:HD23	2.14	0.47
27:AR:140:ARG:O	27:AR:160:ASN:HB2	2.13	0.47
10:AA:1052:U:C2'	10:AA:1052:U:O2	2.62	0.47
24:AO:82:CYS:O	24:AO:82:CYS:SG	2.72	0.47
20:BK:116:LEU:C	20:BK:116:LEU:CD2	2.83	0.47
3:B3:193:HIS:ND1	6:B6:29:TYR:HB3	2.29	0.47
4:B4:80:ASN:HB2	5:B5:62:GLU:OE2	2.15	0.47
10:BA:1057:G:N2	10:BA:1061:U:C2	2.83	0.47
7:A7:77:LYS:HA	7:A7:84:ALA:HB3	1.96	0.47
11:AB:73:CYS:HB2	11:AB:121:THR:HG1	1.80	0.47
10:AA:411:U:O2'	10:AA:412:U:H5'	2.14	0.47
20:AK:29:GLY:O	20:AK:93:LEU:HA	2.14	0.47
5:A5:75:TYR:HB3	5:A5:80:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:BF:85:LEU:CD2	15:BF:90:ILE:HD11	2.44	0.47
14:AE:82:LEU:HD12	14:AE:212:LEU:HD13	1.96	0.47
4:A4:122:THR:HB	4:A4:146:THR:OG1	2.15	0.47
13:BD:93:LEU:O	13:BD:96:VAL:HG23	2.15	0.47
10:AA:1541:A:O2'	22:AM:147:VAL:CG2	2.62	0.47
16:AG:54:LYS:HB3	16:AG:57:ARG:HG2	1.95	0.47
10:BA:533:G:C2'	10:BA:534:A:O5'	2.63	0.47
10:BA:533:G:H8	10:BA:533:G:H3'	1.80	0.47
29:AT:43:THR:HG1	29:AT:50:ALA:HA	1.77	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
10:AA:1339:G:H2'	10:AA:1340:G:H8	1.79	0.47
10:BA:427:A:OP1	21:BL:48:ALA:HA	2.14	0.47
9:B9:155:UNK:CA	9:B9:158:UNK:HG3	2.45	0.47
31:AV:13:ALA:HB1	31:AV:54:ALA:HA	1.96	0.47
9:A9:135:GLY:HA3	10:AA:1225:U:O4'	2.15	0.47
10:AA:642:G:H2'	10:AA:643:U:C5'	2.41	0.47
10:BA:1172:G:HO2'	10:BA:1173:G:P	2.30	0.47
19:BJ:66:ARG:HE	19:BJ:77:TRP:HH2	1.61	0.47
23:BN:28:GLY:O	23:BN:29:LEU:C	2.53	0.47
10:AA:1531:G:C2'	10:AA:1532:U:OP1	2.62	0.47
10:AA:876:A:HO2'	10:AA:877:G:P	2.38	0.47
34:AY:23:LYS:NZ	34:AY:43:ASP:OD2	2.42	0.47
3:B3:144:ARG:HH12	35:BZ:3:SER:HB3	1.80	0.47
9:A9:146:UNK:HA	9:A9:149:UNK:HG1	1.97	0.47
3:A3:132:LEU:O	3:A3:133:PRO:C	2.53	0.47
3:A3:119:LEU:HB2	10:AA:633:U:H6	1.77	0.47
10:BA:675:A:H4'	10:BA:676:C:OP2	2.11	0.47
10:BA:1199:G:H5''	10:BA:1200:G:C3'	2.45	0.47
10:BA:311:U:H5'	10:BA:312:C:C5'	2.37	0.47
3:A3:91:ILE:HG23	3:A3:166:LYS:HD2	1.96	0.47
10:AA:1136:G:O2'	10:AA:1137:A:H5'	2.15	0.47
16:BG:96:HIS:O	16:BG:100:GLY:HA2	2.14	0.47
10:BA:747:G:N2	10:BA:755:G:N1	2.63	0.47
12:BC:74:GLN:HA	12:BC:77:GLN:NE2	2.30	0.47
2:A2:109:ILE:HD13	2:A2:199:TYR:CD2	2.50	0.47
2:A2:39:THR:C	2:A2:41:GLN:N	2.68	0.47
27:BR:297:GLU:N	27:BR:298:PRO:CD	2.77	0.47
10:BA:26:U:C3'	10:BA:27:A:C5'	2.92	0.47
12:AC:119:ARG:HD2	14:AE:123:GLN:HE22	1.74	0.47
32:AW:49:LYS:O	32:AW:53:ASN:HA	2.15	0.47
13:BD:112:ARG:HA	13:BD:112:ARG:HD3	1.57	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:11:ARG:NH1	32:AW:21:ASN:HB3	2.30	0.47
10:AA:732:U:C4	10:AA:784:G:C6	3.03	0.47
34:AY:97:VAL:HG12	34:AY:98:ARG:N	2.30	0.47
10:AA:112:U:O2'	10:AA:324:A:H1'	2.15	0.47
13:AD:167:GLY:O	13:AD:168:ARG:HB3	2.15	0.47
30:BU:108:TYR:CE2	30:BU:120:ILE:HD13	2.49	0.47
34:AY:57:ASP:C	34:AY:59:ASP:N	2.68	0.47
10:BA:1191:A:H2'	10:BA:1192:C:H5'	1.97	0.47
29:BT:116:ILE:HG23	29:BT:136:GLY:CA	2.44	0.47
24:BO:56:LEU:HD22	24:BO:62:ILE:HD12	1.96	0.47
11:AB:119:ILE:HA	11:AB:141:ILE:O	2.15	0.47
7:B7:91:THR:O	7:B7:91:THR:HG22	2.15	0.47
10:BA:690:A:N1	10:BA:712:U:C4	2.83	0.47
30:AU:73:VAL:HG12	30:AU:74:PRO:HD2	1.96	0.47
10:AA:1256:C:H4'	10:AA:1257:U:O5'	2.15	0.47
34:BY:14:LYS:HG3	34:BY:15:CYS:N	2.30	0.47
22:BM:144:HIS:O	22:BM:145:GLY:C	2.53	0.47
28:BS:73:PRO:C	28:BS:75:GLY:N	2.67	0.47
27:BR:84:LEU:CD2	27:BR:91:ALA:HB2	2.44	0.47
19:AJ:22:THR:O	19:AJ:23:LEU:HD23	2.15	0.47
12:AC:184:ILE:HG22	12:AC:185:MET:N	2.30	0.47
2:A2:21:HIS:H	2:A2:21:HIS:CD2	2.33	0.47
17:AH:81:VAL:N	17:AH:123:GLY:O	2.47	0.47
10:BA:1434:C:O2	10:BA:1434:C:H2'	2.15	0.47
4:B4:76:LYS:HD2	4:B4:76:LYS:O	2.15	0.47
18:BI:21:VAL:O	18:BI:69:ILE:HA	2.15	0.47
10:AA:240:G:N2	10:AA:248:A:H1'	2.30	0.47
10:BA:19:A:O2'	10:BA:20:G:H5'	2.15	0.47
22:AM:25:LYS:NZ	22:AM:57:ARG:HG3	2.30	0.47
29:BT:83:PHE:CZ	29:BT:85:SER:CB	2.98	0.47
29:AT:56:TRP:CD1	29:AT:56:TRP:C	2.88	0.47
7:A7:61:TRP:HE1	12:AC:26:SER:HB2	1.80	0.47
10:BA:1122:G:H1'	10:BA:1718:A:O2'	2.15	0.47
10:AA:1716:A:OP2	10:AA:1721:G:OP1	2.33	0.47
10:AA:748:U:N3	13:AD:146:PHE:CZ	2.83	0.47
10:BA:879:G:N1	10:BA:880:G:C2	2.83	0.47
31:AV:17:ILE:HD13	31:AV:58:MET:HE2	1.97	0.47
26:BQ:117:LYS:NZ	26:BQ:144:ASN:O	2.43	0.47
10:BA:1541:A:C1'	22:BM:147:VAL:HG21	2.41	0.47
10:BA:954:G:N2	10:BA:1001:A:H2'	2.30	0.47
30:BU:100:CYS:O	30:BU:101:SER:OG	2.27	0.47
27:AR:107:THR:C	27:AR:109:THR:N	2.68	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
4:A4:45:PHE:HD1	4:A4:46:GLY:N	2.13	0.47
10:AA:313:G:O2'	10:AA:314:A:P	2.72	0.47
8:A8:95:LYS:HE3	8:A8:105:TYR:OH	2.15	0.47
10:AA:1303:A:O2'	31:AV:46:LEU:HD12	2.15	0.47
32:BW:89:MET:HE1	32:BW:238:ILE:HD13	1.95	0.47
32:BW:94:ILE:HD12	32:BW:99:GLN:HG3	1.95	0.47
16:AG:13:LEU:C	16:AG:15:GLY:N	2.69	0.47
10:BA:1027:U:C2'	10:BA:1028:G:C5'	2.93	0.47
27:BR:56:LEU:HD11	27:BR:65:PHE:CE2	2.50	0.47
18:BI:11:THR:HG22	18:BI:22:ALA:HB3	1.97	0.47
13:AD:157:ASP:HB3	13:AD:158:PHE:H	1.52	0.47
10:AA:1064:A:O2'	10:AA:1065:A:O5'	2.32	0.47
10:AA:383:G:N2	10:AA:397:U:C2	2.83	0.47
3:B3:81:ILE:HG23	3:B3:92:VAL:HB	1.97	0.47
21:AL:78:ASN:HD21	21:AL:80:LYS:CG	2.25	0.47
2:A2:141:LYS:HZ1	2:A2:143:LYS:HE2	1.75	0.47
2:B2:84:THR:HG21	2:B2:113:ASP:O	2.15	0.47
2:A2:112:ILE:HD11	2:A2:174:ALA:CB	2.45	0.47
7:A7:55:LEU:HG	7:A7:66:TYR:HB3	1.96	0.47
24:BO:31:THR:CG2	24:BO:32:PRO:HD2	2.45	0.47
12:BC:82:TYR:C	12:BC:84:ASP:N	2.67	0.47
7:B7:52:ARG:CB	7:B7:54:PHE:HE1	2.28	0.47
12:AC:175:VAL:HG13	12:AC:187:VAL:O	2.14	0.47
10:BA:1703:A:H2'	10:BA:1704:C:C6	2.50	0.47
28:AS:86:ARG:CZ	28:AS:122:ALA:HB1	2.45	0.47
24:BO:80:ASN:C	24:BO:82:CYS:H	2.18	0.47
9:A9:80:TYR:N	9:A9:80:TYR:CD1	2.83	0.47
10:BA:221:A:H61	10:BA:814:A:N6	2.13	0.47
10:BA:1529:U:O2	10:BA:1529:U:C2'	2.63	0.47
21:BL:106:LEU:CD2	21:BL:122:LYS:HB2	2.45	0.47
30:AU:87:THR:HG22	30:AU:87:THR:O	2.15	0.47
10:BA:640:A:H2'	10:BA:641:G:C8	2.50	0.47
16:BG:125:THR:HB	16:BG:130:ARG:CZ	2.44	0.47
22:AM:114:GLU:OE2	22:AM:118:LYS:HE3	2.15	0.47
27:BR:16:ILE:HG23	27:BR:332:VAL:HG13	1.96	0.47
35:AZ:14:THR:OG1	35:AZ:23:LYS:HE2	2.15	0.47
4:A4:76:LYS:HD2	4:A4:76:LYS:O	2.15	0.47
2:A2:142:GLU:HB2	2:A2:150:ARG:NH2	2.31	0.47
11:AB:21:ALA:HB1	11:AB:145:ASP:OD2	2.14	0.47
10:AA:17:C:H5'	10:AA:1081:G:C5'	2.44	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AD:15:PRO:CG	13:AD:23:ARG:HH12	2.28	0.46
8:A8:73:LEU:HB2	8:A8:75:VAL:CG2	2.39	0.46
10:AA:262:G:C2	10:AA:264:U:C4	3.03	0.46
10:AA:64:U:O2'	10:AA:65:C:O5'	2.30	0.46
25:BP:10:ILE:HA	25:BP:20:GLN:O	2.16	0.46
5:B5:77:ILE:H	5:B5:77:ILE:CD1	2.26	0.46
6:A6:24:GLN:HE22	17:AH:57:ARG:HH12	1.62	0.46
6:A6:31:MET:HE3	6:A6:77:PHE:HB2	1.97	0.46
10:AA:941:A:HO2'	10:AA:942:U:H6	1.61	0.46
10:AA:1608:C:C2	10:AA:1610:G:C4	3.03	0.46
10:BA:125:U:H2'	10:BA:125:U:O2	2.15	0.46
9:B9:146:UNK:HG3	9:B9:146:UNK:O	2.14	0.46
10:BA:841:A:C2'	10:BA:842:U:OP1	2.63	0.46
10:AA:1201:G:O2'	10:AA:1202:A:H8	1.98	0.46
2:B2:18:MET:CE	2:B2:19:PRO:O	2.63	0.46
3:A3:134:SER:HB2	3:A3:159:ASP:OD2	2.14	0.46
12:AC:228:ARG:O	12:AC:228:ARG:HG3	2.15	0.46
27:AR:134:LEU:HD21	27:AR:187:PHE:CE2	2.50	0.46
10:AA:69:A:H2'	10:AA:70:U:H5''	1.97	0.46
28:AS:114:PHE:O	28:AS:117:ILE:HG13	2.15	0.46
28:AS:69:LYS:NZ	28:AS:93:GLU:O	2.45	0.46
10:AA:306:A:C1'	10:AA:344:A:N6	2.78	0.46
2:A2:31:ARG:CG	10:AA:323:U:OP1	2.63	0.46
22:BM:6:GLU:O	22:BM:10:ASP:N	2.41	0.46
32:BW:188:GLY:H	32:BW:191:ILE:CG2	2.28	0.46
12:BC:227:ILE:HG12	27:BR:209:PHE:HE1	1.80	0.46
27:BR:237:LEU:HD21	27:BR:239:ILE:HG13	1.95	0.46
32:AW:193:ARG:NH1	32:AW:246:VAL:HA	2.30	0.46
32:BW:194:VAL:HG23	32:BW:245:GLY:HA3	1.97	0.46
3:B3:194:THR:O	3:B3:194:THR:HG22	2.16	0.46
32:AW:73:PHE:HB2	32:AW:93:ARG:HB3	1.97	0.46
13:BD:46:GLN:HG2	13:BD:101:ILE:CD1	2.38	0.46
10:BA:1183:A:H4'	28:BS:105:LYS:NZ	2.29	0.46
10:BA:896:U:H2'	10:BA:897:A:H8	1.80	0.46
10:BA:431:U:N1	10:BA:457:G:N2	2.64	0.46
21:BL:40:ASN:CB	21:BL:41:PRO:HD2	2.38	0.46
10:AA:559:C:O2	10:AA:559:C:C2'	2.63	0.46
19:BJ:14:VAL:HG11	19:BJ:16:LYS:HE3	1.96	0.46
10:BA:449:G:C2'	10:BA:450:G:H5'	2.45	0.46
9:B9:83:LYS:CG	9:B9:84:LYS:H	2.28	0.46
27:AR:237:LEU:HD21	27:AR:239:ILE:HG13	1.97	0.46
10:BA:1607:A:N6	14:BE:93:ALA:H	2.13	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A9:121:PRO:O	30:AU:38:ALA:N	2.48	0.46
4:A4:75:LEU:O	4:A4:79:SER:CB	2.63	0.46
4:B4:131:LYS:NZ	4:B4:137:ILE:HG12	2.29	0.46
10:AA:1089:U:O2'	10:AA:1090:G:OP1	2.28	0.46
10:AA:690:A:N1	10:AA:712:U:C4	2.83	0.46
28:BS:13:PHE:O	28:BS:14:ARG:HD3	2.14	0.46
34:BY:232:ALA:N	34:BY:233:PRO:HD2	2.30	0.46
10:AA:1385:U:C6	10:AA:1385:U:OP2	2.68	0.46
9:B9:119:CYS:O	9:B9:123:ILE:HD12	2.15	0.46
10:AA:350:A:H5''	10:AA:351:A:H5''	1.95	0.46
19:AJ:95:VAL:HG22	19:AJ:116:MET:HE2	1.96	0.46
21:AL:106:LEU:CD2	21:AL:122:LYS:HB2	2.45	0.46
27:BR:67:ILE:HG23	27:BR:68:PRO:HD2	1.96	0.46
29:AT:82:ILE:CG2	29:AT:82:ILE:O	2.63	0.46
6:B6:22:LEU:HA	17:BH:60:LYS:HZ2	1.79	0.46
34:AY:44:GLU:O	34:AY:119:ALA:HB1	2.15	0.46
10:AA:1269:G:N2	10:AA:1272:A:OP2	2.48	0.46
13:AD:23:ARG:HH21	13:AD:24:LEU:HD21	1.80	0.46
4:A4:207:THR:C	4:A4:209:ASN:N	2.67	0.46
10:AA:1440:A:H2'	10:AA:1441:C:C6	2.50	0.46
10:AA:1507:U:HO2'	10:AA:1508:G:P	2.38	0.46
10:AA:1513:G:H2'	10:AA:1514:G:H1'	1.96	0.46
29:BT:49:LEU:HG	29:BT:50:ALA:N	2.30	0.46
10:AA:761:U:C4	10:AA:764:U:O2	2.68	0.46
10:BA:1608:C:H4'	10:BA:1609:C:OP2	2.13	0.46
6:A6:44:ILE:HG21	6:A6:52:ILE:CD1	2.45	0.46
20:AK:121:ARG:C	20:AK:123:GLY:H	2.18	0.46
27:BR:233:LYS:C	27:BR:235:LYS:N	2.67	0.46
10:BA:424:A:N3	10:BA:425:A:C8	2.83	0.46
10:BA:143:C:H2'	10:BA:144:C:H6	1.80	0.46
10:BA:80:A:H1'	25:BP:121:THR:HG23	1.97	0.46
10:BA:884:A:H2'	10:BA:885:A:O4'	2.15	0.46
10:BA:630:A:H5''	17:BH:31:SER:HB3	1.96	0.46
26:BQ:117:LYS:O	26:BQ:120:ASP:OD1	2.33	0.46
10:BA:1168:A:N6	10:BA:1573:G:H2'	2.31	0.46
1:B1:62:ARG:HB3	1:B1:63:GLU:H	1.59	0.46
12:BC:9:ASN:HB2	12:BC:12:LYS:HB2	1.97	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
3:A3:119:LEU:CB	10:AA:633:U:H6	2.28	0.46
2:A2:17:ARG:HG2	2:A2:18:MET:H	1.80	0.46
10:AA:1244:U:O4	10:AA:1402:C:O2	2.32	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1159:U:H3	10:AA:1170:G:H1	1.64	0.46
28:BS:59:ALA:O	28:BS:62:VAL:HB	2.15	0.46
7:B7:12:ILE:HA	7:B7:15:GLN:CD	2.35	0.46
10:AA:309:U:C2'	10:AA:310:C:C5'	2.84	0.46
27:BR:22:ASP:HB3	27:BR:47:ARG:HB2	1.97	0.46
10:BA:313:G:C6	10:BA:328:G:C2	3.03	0.46
31:BV:77:GLU:C	31:BV:79:GLU:H	2.18	0.46
10:AA:1301:A:C2'	10:AA:1302:G:C5'	2.91	0.46
10:AA:302:U:H2'	10:AA:303:A:H5''	1.97	0.46
10:AA:343:C:O2'	10:AA:344:A:OP2	2.27	0.46
10:AA:1263:G:O5'	10:AA:1263:G:C8	2.65	0.46
27:BR:218:HIS:CD2	27:BR:261:ILE:H	2.33	0.46
32:AW:61:VAL:O	32:AW:63:LEU:N	2.48	0.46
22:AM:119:ILE:CG2	28:AS:124:PHE:CE2	2.99	0.46
10:AA:651:G:N2	10:AA:652:A:C4	2.83	0.46
18:AI:8:LEU:HD12	18:AI:24:VAL:O	2.15	0.46
10:BA:1037:G:O2'	10:BA:1038:U:H5'	2.13	0.46
2:B2:70:GLU:CG	2:B2:85:LYS:HG2	2.42	0.46
28:BS:65:VAL:HG21	28:BS:94:LEU:HD21	1.96	0.46
18:AI:101:GLU:HG2	27:AR:71:ALA:HB2	1.97	0.46
11:BB:31:ARG:HG3	11:BB:31:ARG:HH11	1.79	0.46
2:B2:78:GLU:HB2	2:B2:80:ILE:HG13	1.97	0.46
10:AA:177:U:H2'	10:AA:178:U:H6	1.80	0.46
10:BA:586:A:OP1	13:BD:39:LYS:HD2	2.14	0.46
10:AA:1125:A:C5	10:AA:1126:C:C5	3.03	0.46
4:B4:169:ALA:CB	4:B4:210:ILE:HD13	2.44	0.46
10:BA:1644:C:H2'	10:BA:1645:C:C6	2.49	0.46
1:B1:26:GLN:NE2	1:B1:65:ARG:HA	2.30	0.46
10:AA:803:A:C2	10:AA:830:G:C2	3.03	0.46
4:B4:217:THR:HG22	4:B4:218:ILE:H	1.80	0.46
25:BP:127:LYS:O	25:BP:128:LYS:C	2.53	0.46
3:A3:22:ALA:O	3:A3:25:GLU:HB2	2.16	0.46
12:BC:49:THR:HB	12:BC:87:ILE:HG12	1.98	0.46
8:A8:99:ASN:O	8:A8:101:ASN:N	2.49	0.46
10:BA:1659:C:O5'	10:BA:1659:C:H6	1.98	0.46
14:AE:116:TRP:H	14:AE:132:HIS:CD2	2.18	0.46
17:AH:128:PHE:CD1	17:AH:128:PHE:C	2.88	0.46
10:BA:16:G:H2'	10:BA:17:C:H6	1.73	0.46
10:BA:602:U:HO2'	10:BA:603:U:P	2.38	0.46
10:AA:472:A:O2'	10:AA:473:A:H5'	2.15	0.46
10:AA:533:G:H2'	10:AA:534:A:O5'	2.14	0.46
18:AI:13:GLY:HA2	18:AI:85:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:130:A:H2	10:AA:170:C:OP1	1.99	0.46
10:AA:769:C:C6	10:AA:769:C:H3'	2.49	0.46
10:AA:838:U:H2'	10:AA:838:U:O2	2.15	0.46
1:A1:61:GLU:O	1:A1:62:ARG:HG2	2.16	0.46
10:AA:611:U:C6	10:AA:1009:U:O2	2.69	0.46
10:AA:1717:C:C2'	10:AA:1718:A:C5'	2.93	0.46
10:AA:981:A:C2'	10:AA:982:U:OP2	2.63	0.46
27:BR:179:LYS:O	27:BR:180:VAL:O	2.34	0.46
10:BA:280:U:H2'	10:BA:281:A:C8	2.51	0.46
10:AA:1371:A:O2'	10:AA:1372:A:H5'	2.15	0.46
10:BA:937:U:H5''	10:BA:938:U:OP2	2.14	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
11:BB:5:ARG:NE	11:BB:176:ARG:HH21	2.12	0.46
11:BB:180:ILE:HG12	11:BB:185:LEU:HD23	1.97	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:C8	10:AA:1174:A:H3'	2.50	0.46
31:BV:88:LYS:O	31:BV:89:SER:C	2.54	0.46
27:BR:125:ALA:HB3	27:BR:134:LEU:CB	2.40	0.46
10:AA:496:G:C2	10:AA:497:G:C8	3.03	0.46
2:B2:176:ILE:HG22	2:B2:177:THR:N	2.30	0.46
10:BA:477:G:N2	10:BA:496:G:H1'	2.29	0.46
28:AS:90:VAL:HB	28:AS:117:ILE:HA	1.96	0.46
28:AS:42:PHE:CD2	28:AS:118:GLY:HA2	2.49	0.46
32:BW:185:ILE:HD12	32:BW:190:ASN:O	2.15	0.46
27:BR:9:ILE:HD12	27:BR:290:PRO:O	2.14	0.46
32:BW:95:GLU:O	32:BW:97:THR:N	2.48	0.46
16:AG:14:PHE:HD2	16:AG:17:TRP:HZ3	1.63	0.46
13:AD:112:ARG:HA	13:AD:112:ARG:HD3	1.57	0.46
32:AW:10:LYS:O	32:AW:11:ARG:C	2.53	0.46
3:A3:48:PHE:HE2	3:A3:62:LEU:HD23	1.80	0.46
10:BA:863:G:H21	20:BK:137:THR:HG22	1.81	0.46
28:AS:101:VAL:HG21	28:AS:121:LEU:CD1	2.40	0.46
11:BB:99:TRP:CD1	11:BB:129:ALA:HB2	2.50	0.46
21:AL:75:LEU:HD12	21:AL:78:ASN:HD22	1.80	0.46
10:BA:1652:A:C2'	34:BY:65:GLN:HE21	2.29	0.46
10:BA:981:A:O2'	10:BA:982:U:OP2	2.31	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
5:A5:12:GLN:HG3	5:A5:33:ASP:OD2	2.14	0.46
5:A5:10:ARG:NH1	5:A5:12:GLN:NE2	2.64	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BT:10:VAL:HG22	29:BT:69:TYR:HE2	1.80	0.46
10:AA:272:U:C4	10:AA:273:A:H8	2.33	0.46
10:BA:1166:A:O2'	10:BA:1167:C:H5'	2.15	0.46
10:BA:1119:G:H4'	14:BE:91:THR:HA	1.97	0.46
11:BB:191:TRP:CD1	11:BB:193:VAL:HB	2.48	0.46
10:AA:1056:A:O2'	10:AA:1057:G:H5'	2.15	0.46
9:A9:137:CYS:SG	9:A9:139:LEU:HB2	2.55	0.46
27:AR:211:ALA:C	27:AR:212:HIS:CD2	2.89	0.46
25:AP:123:LEU:H	25:AP:123:LEU:CD1	2.28	0.46
7:A7:21:VAL:HG13	12:AC:75:PHE:CE1	2.50	0.46
28:AS:32:LYS:O	28:AS:34:ILE:N	2.48	0.46
34:AY:232:ALA:N	34:AY:233:PRO:HD2	2.30	0.46
10:BA:1266:G:H1	10:BA:1275:U:H3	1.63	0.46
7:A7:99:PHE:HZ	12:AC:69:HIS:NE2	2.13	0.46
10:BA:542:G:O2'	10:BA:543:A:H5'	2.15	0.46
10:BA:1688:C:O2'	10:BA:1689:U:H5'	2.16	0.46
3:A3:109:LYS:H	3:A3:109:LYS:CD	2.28	0.46
19:AJ:27:ASN:ND2	19:AJ:29:LYS:HD2	2.29	0.46
30:AU:113:THR:HG22	30:AU:114:GLU:N	2.30	0.46
10:AA:1687:C:H2'	10:AA:1688:C:H6	1.79	0.46
10:BA:385:C:H2'	10:BA:386:U:O4'	2.15	0.46
2:A2:3:ILE:O	2:A2:30:GLY:HA3	2.15	0.46
4:B4:150:SER:O	4:B4:151:ALA:HB3	2.15	0.46
10:BA:218:C:H2'	10:BA:219:C:C6	2.50	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
34:AY:222:GLN:HA	34:AY:225:ALA:HB3	1.98	0.46
10:AA:602:U:HO2'	10:AA:603:U:P	2.38	0.46
10:BA:604:G:H1	10:BA:1080:G:H21	1.50	0.46
17:BH:76:SER:HB2	17:BH:77:PRO:CD	2.39	0.46
10:AA:533:G:C2'	10:AA:534:A:C5'	2.94	0.46
29:BT:38:THR:C	29:BT:40:TRP:N	2.68	0.46
29:AT:86:ASN:OD1	29:AT:94:ASN:HB3	2.15	0.46
5:B5:77:ILE:C	5:B5:81:ILE:HD12	2.33	0.46
10:BA:1558:A:C8	10:BA:1583:A:N6	2.83	0.46
16:BG:34:ALA:H	16:BG:63:ILE:HG12	1.81	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: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
20:BK:45:THR:HG23	20:BK:51:GLU:O	2.15	0.46
6:B6:26:PRO:HB2	10:BA:937:U:OP1	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B6:31:MET:HE3	6:B6:77:PHE:HB2	1.97	0.46
10:AA:640:A:H2'	10:AA:641:G:C8	2.51	0.46
22:BM:25:LYS:NZ	22:BM:57:ARG:HG3	2.30	0.46
1:B1:12:MET:HB3	1:B1:28:ARG:CG	2.28	0.46
17:BH:49:GLU:OE1	35:BZ:1:MET:HG3	2.14	0.46
27:AR:159:GLU:HB3	27:AR:199:TRP:CZ3	2.50	0.46
4:A4:88:LYS:O	4:A4:104:TYR:HB3	2.15	0.46
27:BR:144:LEU:HB3	27:BR:153:PHE:H	1.81	0.46
4:A4:199:TYR:CD1	4:A4:199:TYR:N	2.84	0.46
10:AA:217:A:N6	10:AA:820:U:N3	2.63	0.46
10:BA:754:A:C2	10:BA:755:G:C6	3.04	0.46
32:AW:188:GLY:C	32:AW:190:ASN:H	2.18	0.46
32:BW:49:LYS:O	32:BW:53:ASN:HA	2.15	0.46
10:AA:89:A:C8	10:AA:389:G:C4	3.04	0.46
12:BC:50:GLU:OE2	12:BC:52:ARG:HD2	2.15	0.46
10:BA:1360:U:H2'	31:BV:3:ARG:HH12	1.78	0.46
10:BA:469:A:C6	10:BA:531:A:N1	2.84	0.46
10:AA:787:A:H1'	17:AH:105:THR:HG23	1.96	0.46
10:BA:96:A:O2'	10:BA:97:U:H5'	2.16	0.46
21:BL:29:PHE:CZ	21:BL:33:LEU:CD1	2.98	0.46
10:BA:451:G:O2'	10:BA:452:A:OP2	2.31	0.46
32:AW:57:ASN:ND2	32:AW:59:ARG:HB3	2.26	0.46
25:BP:56:TYR:C	25:BP:56:TYR:HD1	2.19	0.46
16:AG:153:CYS:HA	16:AG:167:THR:CG2	2.46	0.46
10:BA:1188:A:C4	10:BA:1415:A:C2	3.04	0.46
7:B7:55:LEU:CD1	7:B7:68:LEU:HA	2.46	0.46
8:A8:29:LYS:NZ	10:AA:1509:U:C5'	2.79	0.46
7:B7:99:PHE:CZ	12:BC:69:HIS:CE1	3.04	0.46
10:BA:957:A:H2'	10:BA:958:G:O4'	2.15	0.46
33:AX:35:SER:O	33:AX:39:ILE:HG13	2.15	0.46
2:B2:123:LEU:HD23	2:B2:123:LEU:C	2.35	0.46
16:BG:47:THR:O	16:BG:48:ALA:C	2.54	0.46
11:BB:149:PRO:C	11:BB:151:ALA:H	2.18	0.46
24:AO:88:GLU:O	24:AO:89:ASP:C	2.52	0.46
13:BD:151:ASP:O	13:BD:154:LYS:HE3	2.15	0.46
10:AA:15:U:C6	10:AA:16:G:C8	3.03	0.46
14:AE:142:LYS:CB	14:AE:152:ALA:HB1	2.46	0.46
10:BA:1110:A:O2'	10:BA:1111:A:C5'	2.63	0.46
29:BT:41:THR:HG23	29:BT:50:ALA:HB2	1.98	0.46
10:AA:143:C:H2'	10:AA:144:C:H6	1.80	0.46
5:B5:77:ILE:HG12	10:BA:1746:G:C6	2.50	0.46
10:BA:911:A:O2'	10:BA:912:A:P	2.73	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
5:A5:13:LYS:HG3	10:AA:912:A:H1'	1.96	0.46
10:BA:445:U:C2'	10:BA:445:U:O2	2.63	0.46
10:BA:132:U:C1'	34:BY:149:LYS:NZ	2.78	0.46
10:AA:754:A:C2	10:AA:755:G:C6	3.03	0.46
13:AD:139:ASN:CG	13:AD:140:LEU:N	2.69	0.46
17:BH:6:ILE:HA	17:BH:9:GLU:HB2	1.98	0.46
8:B8:41:HIS:HA	8:B8:74:LYS:O	2.15	0.46
14:AE:228:PRO:HD2	17:AH:99:PHE:CE2	2.49	0.46
23:AN:16:ASP:OD1	23:AN:26:ARG:NH1	2.48	0.46
10:AA:1312:U:H4'	10:AA:1313:G:OP2	2.14	0.46
4:A4:90:VAL:HG23	4:A4:104:TYR:CB	2.45	0.46
5:A5:44:MET:HG3	5:A5:66:ILE:CG2	2.46	0.46
27:AR:266:LYS:O	27:AR:268:GLN:N	2.48	0.46
2:B2:179:ARG:HD3	2:B2:182:GLN:HG3	1.96	0.46
2:B2:5:ARG:HB2	10:BA:329:A:H1'	1.98	0.46
26:BQ:20:LYS:HB2	26:BQ:20:LYS:HE3	1.55	0.46
10:AA:77:G:C5'	10:AA:77:G:C8	2.95	0.46
10:AA:1261:U:C6	10:AA:1261:U:H3'	2.50	0.46
26:AQ:70:ILE:CG2	26:AQ:71:LYS:N	2.78	0.46
26:AQ:17:LEU:HA	26:AQ:20:LYS:NZ	2.31	0.46
2:A2:194:LYS:CG	26:AQ:4:GLN:NE2	2.79	0.46
10:BA:1139:G:H2'	10:BA:1140:U:C6	2.51	0.46
2:A2:111:GLU:OE1	2:A2:171:ARG:HB3	2.16	0.46
10:AA:1045:G:O2'	10:AA:1046:G:H5'	2.16	0.46
10:AA:453:G:H5"	32:AW:26:ILE:CD1	2.44	0.46
26:BQ:128:ARG:NH1	26:BQ:128:ARG:HG2	2.31	0.46
4:B4:130:CYS:HB3	4:B4:182:ALA:CB	2.46	0.46
11:BB:6:LYS:HE2	31:BV:111:TYR:OH	2.16	0.46
25:AP:76:ASN:C	25:AP:78:GLN:N	2.69	0.46
11:AB:99:TRP:CD1	11:AB:129:ALA:HB2	2.51	0.46
22:AM:119:ILE:O	22:AM:120:LYS:HB2	2.14	0.46
10:AA:95:C:H4'	10:AA:96:A:O5'	2.16	0.46
10:BA:455:C:H2'	10:BA:456:A:O4'	2.16	0.46
9:A9:86:THR:CG2	9:A9:87:LYS:N	2.79	0.46
10:BA:1654:U:O2	10:BA:1672:G:C2	2.69	0.46
27:AR:89:CYS:O	27:AR:90:PHE:HD1	1.99	0.46
27:AR:258:ILE:HG23	27:AR:272:VAL:CG1	2.45	0.46
9:A9:124:PHE:HD1	9:A9:124:PHE:H	1.63	0.46
21:BL:56:ILE:CG2	21:BL:57:GLY:N	2.78	0.46
3:A3:14:LYS:HA	3:A3:17:GLU:OE1	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:119:ALA:O	25:AP:123:LEU:HD13	2.15	0.46
10:BA:155:U:H4'	34:BY:83:CYS:HA	1.97	0.46
10:BA:1017:C:H2'	10:BA:1018:G:C5'	2.45	0.46
10:BA:932:G:H5'	24:BO:7:LYS:NZ	2.29	0.46
10:AA:1384:U:C4'	10:AA:1385:U:OP1	2.63	0.46
24:BO:48:THR:HB	24:BO:51:GLN:H	1.80	0.46
20:AK:110:PRO:HG2	20:AK:111:GLY:N	2.31	0.46
2:A2:72:ASN:ND2	10:AA:255:C:O4'	2.49	0.46
17:BH:81:VAL:N	17:BH:123:GLY:O	2.48	0.46
23:BN:10:PRO:HB2	23:BN:12:ASN:HD22	1.81	0.46
10:AA:1726:U:C2	10:AA:1742:G:N2	2.84	0.46
13:AD:23:ARG:O	13:AD:27:GLU:HG3	2.15	0.46
10:AA:533:G:C2'	10:AA:534:A:O5'	2.63	0.46
22:AM:29:PRO:HA	22:AM:43:ALA:HB1	1.98	0.46
6:A6:47:ASN:ND2	6:A6:67:GLY:O	2.48	0.46
10:AA:933:A:H2'	10:AA:934:U:O4'	2.16	0.46
10:BA:1454:A:C6	10:BA:1455:A:C6	3.03	0.46
10:AA:1724:U:H6	10:AA:1724:U:H5''	1.79	0.46
27:BR:235:LYS:HG3	27:BR:256:SER:C	2.36	0.46
10:BA:1263:G:H2'	10:BA:1264:G:H8	1.80	0.46
10:BA:134:C:O2'	10:BA:135:A:P	2.74	0.46
10:AA:745:G:H2'	10:AA:746:A:H8	1.81	0.46
10:AA:1369:A:H8	10:AA:1369:A:P	2.38	0.46
10:AA:667:C:C2'	10:AA:668:U:O4'	2.56	0.46
10:BA:1155:A:C6	28:BS:104:GLY:HA3	2.51	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
10:BA:1171:G:OP1	23:BN:40:ARG:NH2	2.49	0.46
10:BA:834:A:O2'	10:BA:835:U:P	2.74	0.46
10:AA:880:G:C5	10:AA:881:U:H5	2.33	0.46
20:AK:43:HIS:CE1	20:AK:52:THR:HG23	2.51	0.46
3:B3:145:LEU:O	3:B3:146:ASP:C	2.54	0.46
5:B5:30:VAL:HG21	5:B5:76:CYS:CB	2.38	0.46
11:AB:180:ILE:CG1	11:AB:185:LEU:HD23	2.46	0.46
30:BU:27:LYS:H	30:BU:31:GLU:HG2	1.75	0.46
5:A5:53:ILE:HG23	20:AK:126:ILE:CD1	2.45	0.46
27:AR:266:LYS:HB2	27:AR:267:LEU:HD12	1.97	0.46
21:AL:55:LYS:HB2	21:AL:92:LEU:HD21	1.97	0.46
10:BA:302:U:H2'	10:BA:303:A:H5''	1.98	0.46
26:BQ:9:TYR:O	26:BQ:10:GLN:HB2	2.14	0.46
10:AA:301:C:C2'	10:AA:302:U:H5'	2.45	0.46
8:A8:47:LYS:HA	8:A8:50:VAL:CG2	2.46	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:6:GLU:O	22:AM:10:ASP:N	2.41	0.46
32:BW:193:ARG:NE	32:BW:220:PHE:CZ	2.83	0.46
2:B2:22:ARG:O	2:B2:22:ARG:HG3	2.16	0.46
14:AE:41:LYS:HD3	14:AE:244:PHE:CD2	2.50	0.46
27:BR:326:ALA:HB1	27:BR:328:PHE:HE1	1.81	0.46
10:AA:385:C:H2'	10:AA:386:U:O4'	2.15	0.46
33:BX:62:TRP:CH2	33:BX:63:HIS:NE2	2.83	0.46
10:AA:413:C:N4	34:AY:91:PHE:CE2	2.83	0.46
13:BD:121:SER:HB3	13:BD:124:HIS:H	1.81	0.46
7:A7:11:ARG:CD	7:A7:15:GLN:HE21	2.28	0.46
7:A7:12:ILE:HA	7:A7:15:GLN:CD	2.36	0.46
17:AH:90:THR:HG23	17:AH:94:LEU:HD12	1.98	0.46
3:B3:155:LEU:HD13	3:B3:163:LEU:HD13	1.97	0.46
16:BG:152:GLY:HA2	16:BG:184:TRP:HD1	1.80	0.46
10:AA:1162:C:C2'	10:AA:1163:U:OP2	2.64	0.46
9:A9:120:GLY:C	9:A9:122:GLY:H	2.18	0.46
7:A7:82:ILE:CG1	30:AU:17:LYS:NZ	2.78	0.46
25:AP:115:THR:CG2	25:AP:116:SER:N	2.79	0.46
20:AK:99:ALA:O	20:AK:101:GLY:N	2.48	0.46
9:B9:80:TYR:N	9:B9:80:TYR:CD1	2.84	0.46
10:AA:542:G:O2'	10:AA:543:A:H5'	2.16	0.46
11:BB:203:LEU:CD2	11:BB:204:PRO:HD2	2.45	0.46
11:AB:73:CYS:CB	11:AB:121:THR:HG1	2.27	0.46
21:BL:27:ASN:O	21:BL:31:LYS:HB2	2.15	0.46
22:AM:122:HIS:HE1	28:AS:128:TYR:OH	1.98	0.46
10:AA:218:C:H2'	10:AA:219:C:C6	2.50	0.46
33:BX:13:LYS:O	33:BX:17:GLN:HG3	2.15	0.46
11:BB:115:PRO:HG2	11:BB:138:ILE:HD12	1.98	0.46
10:AA:1081:G:C5'	10:AA:1081:G:H8	2.17	0.46
10:AA:6:G:C2	10:AA:19:A:N3	2.84	0.46
13:AD:15:PRO:CG	13:AD:23:ARG:NH1	2.79	0.46
14:AE:154:THR:CG2	14:AE:155:ILE:HG13	2.43	0.46
10:AA:2:A:O2'	14:AE:199:THR:O	2.27	0.46
10:AA:469:A:C6	10:AA:531:A:N1	2.84	0.46
10:AA:1454:A:H5''	18:AI:73:GLY:O	2.16	0.46
10:AA:759:G:C6	25:AP:9:LYS:HE2	2.47	0.46
10:BA:1748:U:O2'	10:BA:1749:C:H5'	2.15	0.46
1:B1:48:ALA:HB3	16:BG:139:MET:HG2	1.97	0.46
10:BA:1370:U:C3'	10:BA:1370:U:C6	2.99	0.46
31:BV:17:ILE:CG2	31:BV:58:MET:HE3	2.45	0.46
10:BA:44:U:O2	10:BA:425:A:N3	2.48	0.46
10:BA:444:A:H3'	10:BA:445:U:H6	1.76	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:506:U:OP2	13:AD:169:GLU:CG	2.58	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
26:BQ:117:LYS:HD3	26:BQ:120:ASP:OD2	2.15	0.46
22:BM:35:ILE:O	22:BM:37:GLY:N	2.48	0.46
4:A4:63:ILE:CG2	4:A4:66:ARG:HG3	2.28	0.46
7:B7:61:TRP:NE1	12:BC:26:SER:HB3	2.30	0.46
10:AA:931:A:P	24:AO:96:LYS:NZ	2.89	0.46
10:BA:157:G:O5'	10:BA:157:G:C8	2.68	0.46
10:BA:624:A:H2'	10:BA:625:G:H5'	1.98	0.46
12:AC:228:ARG:HB2	27:AR:207:TYR:CE2	2.49	0.46
27:AR:102:LEU:HD11	27:AR:114:PHE:CZ	2.51	0.46
10:BA:150:A:C6	10:BA:409:G:O6	2.69	0.46
27:BR:82:LEU:HD21	27:BR:93:SER:HB3	1.98	0.46
31:AV:47:ARG:HD2	31:AV:47:ARG:C	2.36	0.46
28:AS:42:PHE:HE2	28:AS:118:GLY:HA2	1.77	0.46
10:BA:193:C:H2'	10:BA:194:G:C8	2.51	0.46
4:A4:107:ASP:OD1	4:A4:108:ILE:N	2.32	0.46
10:AA:1465:C:O2'	10:AA:1466:C:H5''	2.16	0.46
10:BA:295:U:H1'	26:BQ:68:LYS:CD	2.46	0.46
14:AE:27:TRP:CD1	14:AE:38:LYS:HD3	2.50	0.46
10:BA:116:U:H3	32:BW:33:GLN:CD	2.19	0.46
34:BY:153:PRO:HG2	34:BY:154:ILE:HG13	1.98	0.46
7:A7:9:LYS:CG	7:A7:13:TYR:HE1	2.28	0.46
2:B2:185:ARG:NH2	10:BA:202:U:O2	2.49	0.46
16:BG:153:CYS:HA	16:BG:167:THR:CG2	2.44	0.46
15:AF:48:MET:CE	15:AF:71:ILE:HG23	2.46	0.46
29:AT:119:LYS:CE	29:AT:130:ARG:NH1	2.78	0.46
34:BY:121:ILE:HB	34:BY:124:LEU:HD12	1.96	0.46
18:BI:101:GLU:HG2	27:BR:71:ALA:HB2	1.97	0.46
11:BB:75:ARG:O	11:BB:79:GLN:HG2	2.16	0.46
10:BA:89:A:N7	10:BA:389:G:C5	2.84	0.46
32:AW:163:LYS:HB3	32:AW:172:GLU:O	2.15	0.46
10:BA:1088:A:C2'	10:BA:1089:U:OP2	2.64	0.46
10:BA:1144:A:H2'	10:BA:1145:C:C6	2.50	0.46
31:AV:102:THR:O	31:AV:106:LEU:HG	2.16	0.46
4:A4:77:ASP:HB3	4:A4:78:ASN:H	1.50	0.46
14:AE:157:GLN:HE21	14:AE:225:TYR:HB3	1.79	0.46
9:B9:101:TYR:HE2	30:BU:37:GLU:OE2	1.99	0.46
34:AY:102:VAL:CG1	34:AY:109:LEU:HD11	2.45	0.46
16:AG:174:ASN:CB	16:AG:182:SER:O	2.63	0.46
10:BA:996:U:OP1	24:BO:109:LYS:NZ	2.46	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B2:169:SER:O	2:B2:170:GLN:CB	2.63	0.46
10:AA:1703:A:H2'	10:AA:1704:C:C6	2.51	0.46
17:BH:110:ILE:C	17:BH:111:LEU:HD23	2.36	0.46
30:BU:113:THR:HG22	30:BU:114:GLU:N	2.31	0.46
11:AB:149:PRO:C	11:AB:151:ALA:H	2.17	0.46
10:AA:410:G:O2'	10:AA:411:U:H5'	2.15	0.46
10:AA:1106:A:H2'	10:AA:1107:C:O4'	2.16	0.46
10:BA:857:G:H4'	24:BO:110:ASP:HA	1.96	0.46
32:BW:176:HIS:CD2	32:BW:176:HIS:H	2.34	0.46
2:B2:49:ARG:HB2	2:B2:68:LEU:HD23	1.96	0.46
22:BM:63:GLU:HA	22:BM:66:CYS:HB2	1.98	0.46
10:AA:1626:A:C2	10:AA:1627:A:C4	3.04	0.46
3:B3:112:GLN:O	3:B3:114:PRO:HD3	2.16	0.46
12:AC:20:PHE:O	12:AC:23:GLU:HB2	2.15	0.46
15:BF:83:GLN:HG2	15:BF:87:GLU:OE1	2.15	0.46
10:AA:1110:A:H1'	10:AA:1111:A:C1'	2.46	0.46
10:AA:360:U:O2'	10:AA:361:A:P	2.73	0.46
10:BA:5:U:OP2	14:BE:205:THR:CG2	2.64	0.46
29:BT:43:THR:HG1	29:BT:50:ALA:HA	1.76	0.46
16:AG:57:ARG:O	16:AG:59:THR:N	2.48	0.46
10:AA:133:A:H61	10:AA:169:G:C2'	2.28	0.46
10:AA:75:C:C1'	34:AY:178:LYS:CG	2.88	0.46
10:BA:1721:G:HO2'	20:BK:151:LEU:HD13	1.80	0.46
10:AA:630:A:H5''	17:AH:31:SER:HB3	1.97	0.46
18:AI:41:ILE:HG22	18:AI:42:ASN:N	2.30	0.46
5:A5:5:ARG:HB2	5:A5:8:ALA:HA	1.97	0.46
10:AA:1122:G:C6	10:AA:1124:A:N6	2.84	0.46
10:AA:1601:G:H2'	10:AA:1602:U:H6	1.81	0.46
10:BA:126:A:N3	10:BA:126:A:H2'	2.30	0.46
13:AD:109:LEU:HD22	13:AD:141:VAL:CG1	2.46	0.46
10:AA:1360:U:HO2'	10:AA:1361:A:H8	1.62	0.46
6:B6:24:GLN:OE1	17:BH:57:ARG:NH2	2.48	0.46
24:BO:123:ARG:O	24:BO:126:ARG:HB2	2.14	0.46
10:AA:872:A:H2'	10:AA:873:G:H5'	1.97	0.46
20:AK:46:ASP:C	20:AK:48:SER:H	2.18	0.46
5:A5:46:ASP:O	5:A5:50:LYS:HG3	2.16	0.46
20:BK:56:VAL:HG23	20:BK:81:VAL:HG22	1.98	0.46
2:A2:22:ARG:O	2:A2:22:ARG:HG3	2.15	0.46
27:BR:159:GLU:HB3	27:BR:199:TRP:CH2	2.51	0.46
2:B2:8:LYS:C	2:B2:10:LYS:H	2.19	0.46
31:BV:77:GLU:C	31:BV:79:GLU:N	2.69	0.46
4:B4:39:PRO:HG3	4:B4:192:LYS:CB	2.42	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:45:PHE:HD1	4:B4:46:GLY:N	2.14	0.46
33:BX:7:THR:O	33:BX:8:LEU:HB2	2.16	0.46
10:BA:187:U:O2'	10:BA:188:G:C8	2.69	0.46
20:BK:91:ASN:HD22	20:BK:125:LYS:HD2	1.80	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
10:AA:332:A:H2'	10:AA:333:C:H6	1.81	0.46
26:AQ:31:VAL:HG12	26:AQ:32:ARG:N	2.31	0.46
25:BP:15:LEU:HD23	32:BW:96:LYS:HB2	1.98	0.46
10:AA:90:U:P	32:AW:3:ARG:HB2	2.56	0.46
10:AA:455:C:H5'	10:AA:455:C:C6	2.32	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
10:BA:897:A:H2'	10:BA:898:U:C6	2.48	0.46
10:BA:782:A:N7	10:BA:783:U:C5	2.84	0.46
10:BA:588:A:C4'	10:BA:589:G:O5'	2.62	0.46
10:BA:398:A:OP1	34:BY:94:ARG:HD3	2.16	0.46
24:AO:30:MET:O	24:AO:31:THR:C	2.52	0.46
10:BA:240:G:H1'	32:BW:133:ILE:HG23	1.97	0.46
25:AP:107:GLU:O	25:AP:110:ARG:CB	2.60	0.46
4:B4:58:ILE:O	4:B4:59:ALA:C	2.54	0.46
25:AP:34:SER:O	25:AP:35:LYS:C	2.54	0.46
3:A3:152:ARG:HG3	3:A3:154:GLN:NE2	2.31	0.46
7:A7:55:LEU:CD1	7:A7:68:LEU:HA	2.45	0.46
2:B2:136:THR:HG21	2:B2:153:ARG:NH1	2.30	0.46
25:AP:27:HIS:O	25:AP:29:ASP:N	2.49	0.46
10:AA:1039:C:O2'	10:AA:1040:C:H5'	2.15	0.46
19:BJ:45:THR:HB	19:BJ:48:VAL:HG21	1.97	0.46
30:AU:35:THR:CG2	30:AU:41:ALA:HB2	2.45	0.46
10:BA:226:A:H5'	10:BA:227:G:OP1	2.16	0.46
10:AA:595:A:OP2	21:AL:108:ARG:NH1	2.49	0.46
13:AD:11:THR:O	13:AD:47:MET:HG2	2.16	0.46
5:A5:97:ARG:O	5:A5:98:ARG:HB2	2.16	0.46
27:AR:14:ARG:HE	27:AR:337:SER:CB	2.29	0.46
29:BT:82:ILE:CG2	29:BT:82:ILE:O	2.64	0.46
10:BA:1329:G:H2'	10:BA:1330:U:C6	2.50	0.46
10:AA:1659:C:H6	10:AA:1659:C:O5'	1.99	0.46
10:AA:1069:U:O4	14:AE:202:GLN:CD	2.54	0.46
10:AA:1110:A:O2'	10:AA:1111:A:H5''	2.16	0.46
14:AE:210:ASN:HD22	14:AE:210:ASN:HA	1.53	0.46
10:AA:1442:A:OP2	16:AG:159:LYS:HE2	2.15	0.46
10:AA:1580:U:H2'	10:AA:1581:U:H6	1.80	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:80:A:C2'	10:AA:81:A:O4'	2.62	0.46
10:AA:1474:G:H5''	29:AT:102:LYS:HG2	1.97	0.46
10:AA:761:U:N3	25:AP:7:THR:CG2	2.70	0.46
6:A6:17:ASN:O	6:A6:18:LYS:C	2.55	0.46
6:A6:62:CYS:HB3	6:A6:69:VAL:CG1	2.46	0.46
4:B4:207:THR:C	4:B4:209:ASN:N	2.70	0.46
10:BA:1452:G:H3'	10:BA:1453:C:C5'	2.45	0.46
29:BT:15:ALA:HB2	29:BT:66:ARG:CZ	2.45	0.46
17:BH:30:VAL:HG11	17:BH:35:LEU:HD21	1.97	0.46
10:AA:1198:A:N3	10:AA:1228:A:C2	2.84	0.46
10:BA:1171:G:C4	23:BN:29:LEU:HB2	2.51	0.46
10:BA:1170:G:H3'	10:BA:1171:G:H5'	1.98	0.46
10:BA:670:G:H2'	10:BA:671:A:O4'	2.16	0.46
7:B7:60:ASN:HB2	12:BC:26:SER:OG	2.15	0.46
13:BD:129:ILE:H	13:BD:129:ILE:HD13	1.80	0.46
33:BX:44:ARG:HA	33:BX:49:ILE:HD12	1.98	0.46
9:A9:153:UNK:C	9:A9:156:UNK:HG3	2.46	0.46
10:AA:1170:G:H3'	10:AA:1171:G:H5'	1.98	0.46
28:BS:46:THR:CG2	28:BS:89:ILE:HD13	2.41	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
10:AA:315:U:H2'	10:AA:316:G:C8	2.50	0.46
10:BA:317:G:P	26:BQ:56:LYS:HZ3	2.39	0.46
10:AA:904:A:H2'	10:AA:905:C:C6	2.48	0.46
10:AA:235:A:C2	10:AA:814:A:C6	3.04	0.46
4:B4:134:ASP:OD1	4:B4:186:GLY:HA2	2.16	0.46
10:BA:1045:G:O2'	10:BA:1046:G:H5'	2.16	0.46
10:BA:562:G:O2'	10:BA:563:C:H5'	2.16	0.46
14:BE:41:LYS:NZ	14:BE:247:PHE:CD1	2.83	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
17:AH:11:LEU:O	17:AH:14:LEU:HB3	2.16	0.46
10:AA:1021:A:H2'	10:AA:1022:U:O4'	2.16	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
22:BM:50:LEU:O	22:BM:52:ILE:HG13	2.16	0.46
10:AA:1064:A:C2	10:AA:1066:G:C5	3.04	0.46
35:AZ:82:ALA:O	35:AZ:86:ILE:HG13	2.15	0.46
13:BD:120:ASN:H	13:BD:124:HIS:HD2	1.56	0.46
27:AR:33:GLN:NE2	27:AR:87:GLU:HA	2.31	0.46
27:AR:238:LEU:HD23	27:AR:240:TRP:CZ2	2.51	0.46
7:A7:54:PHE:HB3	7:A7:72:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:A7:55:LEU:HD12	7:A7:68:LEU:HA	1.97	0.46
28:BS:98:ILE:HG22	28:BS:111:GLU:HG2	1.96	0.46
18:AI:121:ALA:O	18:AI:123:PRO:CD	2.63	0.46
27:AR:212:HIS:CD2	27:AR:212:HIS:N	2.84	0.46
10:AA:1000:U:C4'	10:AA:1097:A:N6	2.79	0.46
10:BA:124:U:O2	10:BA:124:U:C2'	2.63	0.46
10:BA:100:A:O2'	10:BA:101:A:OP1	2.29	0.46
10:BA:99:A:C5	10:BA:300:C:C4	3.04	0.46
11:BB:95:SER:O	11:BB:96:SER:C	2.53	0.46
10:AA:728:U:H2'	10:AA:729:U:C5'	2.46	0.46
16:BG:171:GLU:OE2	16:BG:183:SER:HB2	2.16	0.46
21:BL:42:PHE:HZ	21:BL:103:VAL:HG23	1.79	0.46
12:BC:109:ASN:HD21	12:BC:178:VAL:HG13	1.80	0.46
27:AR:338:PHE:N	27:AR:338:PHE:CD1	2.84	0.46
10:BA:197:A:H2'	10:BA:198:C:H5'	1.97	0.46
5:A5:2:PRO:HG3	10:AA:1116:A:P	2.55	0.46
4:A4:40:PHE:CD1	4:A4:40:PHE:N	2.84	0.46
35:BZ:30:ARG:HH21	35:BZ:39:ILE:HG21	1.81	0.46
22:BM:84:TRP:CZ3	22:BM:85:LEU:HD21	2.51	0.46
32:AW:77:LYS:NZ	32:AW:147:ARG:HH12	2.14	0.46
10:AA:14:C:N3	10:AA:15:U:C5	2.83	0.46
10:AA:499:A:H4'	33:AX:28:ARG:HE	1.81	0.46
22:BM:41:ARG:NH2	29:BT:42:THR:HA	2.31	0.46
10:AA:84:U:C5'	10:AA:84:U:H6	2.22	0.46
10:AA:1475:G:H2'	10:AA:1476:A:C8	2.51	0.46
12:AC:9:ASN:O	12:AC:11:LYS:N	2.49	0.46
10:BA:761:U:H4'	10:BA:762:U:C5'	2.46	0.46
10:BA:1006:C:O2'	10:BA:1007:U:H5''	2.16	0.46
10:BA:1610:G:C6	10:BA:1611:C:C2	3.04	0.46
10:BA:611:U:C6	10:BA:1009:U:O2	2.69	0.46
18:AI:43:PRO:C	18:AI:45:ILE:H	2.19	0.46
16:AG:117:ARG:HE	16:AG:189:LYS:HZ3	1.64	0.46
5:A5:13:LYS:HD3	5:A5:13:LYS:HA	1.83	0.46
31:BV:13:ALA:HB1	31:BV:54:ALA:HA	1.98	0.46
13:AD:40:ARG:O	13:AD:43:TRP:N	2.46	0.46
10:BA:878:A:C5'	20:BK:39:ASP:OD2	2.65	0.46
20:BK:45:THR:HG22	20:BK:46:ASP:N	2.30	0.46
20:BK:43:HIS:HE1	20:BK:52:THR:CG2	2.28	0.46
10:AA:1360:U:H2'	31:AV:3:ARG:HH12	1.78	0.46
10:BA:937:U:H1'	24:BO:63:PRO:HB2	1.98	0.46
10:BA:1513:G:H2'	10:BA:1514:G:H1'	1.98	0.46
24:BO:96:LYS:O	24:BO:100:ILE:CD1	2.63	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:AN:39:ARG:NH1	23:AN:39:ARG:HG2	2.31	0.46
27:BR:266:LYS:HB2	27:BR:267:LEU:HD12	1.97	0.46
27:BR:264:ASN:C	27:BR:266:LYS:H	2.19	0.46
27:BR:96:TRP:HA	27:BR:120:GLU:CB	2.46	0.46
10:AA:217:A:C6	10:AA:820:U:N3	2.84	0.46
31:AV:47:ARG:C	31:AV:47:ARG:CD	2.83	0.46
31:AV:46:LEU:CD2	31:AV:50:ILE:HD11	2.45	0.46
10:BA:1500:C:H5''	16:BG:86:LYS:HE3	1.98	0.46
16:BG:86:LYS:O	16:BG:89:LYS:N	2.49	0.46
10:BA:1465:C:O2'	10:BA:1466:C:H5''	2.14	0.46
2:A2:87:LEU:HG	2:A2:88:ASP:N	2.31	0.46
12:BC:228:ARG:HG3	12:BC:228:ARG:O	2.15	0.46
2:B2:87:LEU:HG	2:B2:88:ASP:N	2.31	0.46
12:AC:108:MET:CE	12:AC:122:ALA:HA	2.46	0.46
11:AB:46:ILE:HG13	31:AV:105:MET:SD	2.55	0.46
24:AO:132:LYS:O	26:AQ:147:ILE:HD13	2.16	0.46
17:AH:121:THR:HG22	17:AH:122:GLY:O	2.15	0.46
29:BT:32:LEU:N	29:BT:32:LEU:HD23	2.24	0.46
34:AY:55:GLY:HA3	34:AY:63:MET:SD	2.55	0.46
10:BA:232:G:H2'	10:BA:233:U:O4'	2.15	0.46
11:BB:99:TRP:NE1	11:BB:129:ALA:HB2	2.30	0.46
17:AH:87:GLU:O	17:AH:91:ASN:ND2	2.44	0.46
34:BY:64:LYS:NZ	34:BY:82:SER:N	2.62	0.46
30:BU:108:TYR:OH	30:BU:120:ILE:HG21	2.16	0.46
25:BP:34:SER:O	25:BP:35:LYS:C	2.54	0.46
10:BA:1495:U:OP1	29:BT:71:LYS:NZ	2.49	0.46
19:AJ:85:TYR:N	19:AJ:85:TYR:CD1	2.84	0.46
10:BA:1310:C:H1'	10:BA:1381:A:C4	2.51	0.46
11:AB:96:SER:CB	11:AB:111:LYS:HZ3	2.27	0.46
30:BU:12:LEU:HD23	30:BU:82:TYR:HE2	1.81	0.46
11:BB:96:SER:CB	11:BB:111:LYS:HZ1	2.26	0.46
10:BA:372:C:C6	10:BA:372:C:H5'	2.50	0.46
10:AA:1265:U:O2'	11:AB:106:ASN:ND2	2.49	0.46
10:AA:996:U:OP1	24:AO:109:LYS:NZ	2.47	0.46
10:BA:1049:C:O2'	10:BA:1050:C:H5'	2.16	0.46
8:A8:34:LYS:HD3	8:A8:36:LYS:CB	2.46	0.46
3:A3:190:LYS:NZ	6:A6:23:ILE:HD12	2.31	0.46
10:AA:449:G:C2'	10:AA:450:G:H5'	2.46	0.46
10:AA:847:A:H4'	24:AO:92:PHE:CE2	2.51	0.46
20:BK:35:ALA:O	20:BK:109:GLY:N	2.49	0.46
27:BR:299:ILE:HG13	27:BR:330:ASP:HB2	1.98	0.46
27:AR:16:ILE:HG23	27:AR:332:VAL:HG13	1.97	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:AY:213:GLU:HA	34:AY:213:GLU:OE1	2.16	0.46
29:BT:22:TYR:CD1	29:BT:22:TYR:O	2.69	0.46
27:AR:113:ARG:O	27:AR:113:ARG:HG3	2.16	0.46
25:AP:127:LYS:O	25:AP:128:LYS:C	2.53	0.46
34:AY:127:VAL:CG1	34:AY:129:LEU:HG	2.45	0.46
4:A4:122:THR:OG1	4:A4:161:TYR:HA	2.15	0.45
8:A8:60:VAL:HG22	8:A8:72:LYS:HG3	1.98	0.45
22:AM:21:ASN:OD1	22:AM:35:ILE:HA	2.15	0.45
10:AA:1452:G:H3'	10:AA:1453:C:C5'	2.46	0.45
10:AA:1496:A:H2	10:AA:1562:G:N3	2.14	0.45
29:AT:41:THR:HG23	29:AT:50:ALA:CB	2.47	0.45
12:AC:10:LYS:HZ2	19:AJ:86:LYS:HZ1	1.63	0.45
12:AC:14:PHE:O	12:AC:17:ASP:HB2	2.16	0.45
24:BO:141:TRP:C	24:BO:142:LYS:HG3	2.36	0.45
6:A6:32:ASP:HB3	6:A6:41:ILE:HG23	1.98	0.45
13:AD:38:ASN:HD22	13:AD:40:ARG:HG2	1.81	0.45
10:BA:628:G:H4'	17:BH:4:VAL:HG12	1.96	0.45
10:AA:1231:C:O2'	10:AA:1232:U:H5'	2.16	0.45
10:BA:1566:G:N1	10:BA:1572:A:N6	2.64	0.45
22:BM:25:LYS:C	22:BM:25:LYS:HD2	2.37	0.45
10:AA:1528:A:C2'	10:AA:1532:U:OP2	2.55	0.45
9:A9:158:UNK:HA	9:A9:161:UNK:HG3	1.98	0.45
10:AA:1734:A:H2'	10:AA:1735:A:C8	2.51	0.45
17:AH:49:GLU:HG2	17:AH:50:PHE:N	2.31	0.45
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
4:B4:88:LYS:O	4:B4:104:TYR:HB3	2.17	0.45
18:AI:46:LEU:O	18:AI:49:LYS:HB2	2.16	0.45
34:BY:68:MET:O	34:BY:69:VAL:HG23	2.15	0.45
10:AA:1663:A:H2'	10:AA:1664:A:H8	1.81	0.45
18:BI:8:LEU:HD12	18:BI:24:VAL:O	2.16	0.45
20:AK:142:ARG:NH2	20:AK:143:GLU:CD	2.70	0.45
12:BC:38:ALA:HB2	12:BC:94:ILE:CD1	2.42	0.45
35:BZ:37:LYS:HE2	35:BZ:38:LEU:O	2.16	0.45
24:BO:101:ARG:HH12	24:BO:145:ALA:CB	2.29	0.45
10:AA:1463:U:C2'	10:AA:1463:U:O2	2.61	0.45
23:AN:6:TRP:CZ3	23:AN:7:ARG:HG2	2.51	0.45
2:A2:78:GLU:O	2:A2:79:ASN:CB	2.62	0.45
34:BY:57:ASP:C	34:BY:59:ASP:N	2.69	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	Distance(Å)	Clash(Å)
32:AW:249:THR:CG2	32:AW:251:LEU:HB2	2.47	0.45
12:AC:145:LEU:CD1	12:AC:153:MET:HB2	2.46	0.45
1:B1:8:LYS:HG2	1:B1:56:GLU:CD	2.37	0.45
4:A4:69:GLU:HB2	4:A4:86:LYS:CE	2.46	0.45
10:BA:197:A:C2'	10:BA:198:C:H5'	2.46	0.45
22:BM:45:ILE:CD1	22:BM:85:LEU:HD13	2.47	0.45
29:BT:22:TYR:O	29:BT:22:TYR:HD1	1.97	0.45
14:AE:168:ILE:HD12	14:AE:215:THR:N	2.31	0.45
17:BH:88:LYS:O	17:BH:92:ASN:HB2	2.17	0.45
2:B2:62:LYS:HA	2:B2:62:LYS:HD3	1.69	0.45
2:A2:62:LYS:HA	2:A2:62:LYS:HD3	1.67	0.45
25:AP:46:LEU:O	25:AP:47:LYS:HB2	2.17	0.45
10:AA:197:A:H2'	10:AA:198:C:H5'	1.98	0.45
10:BA:3:C:H41	13:BD:16:ARG:HB2	1.80	0.45
8:A8:79:LEU:O	8:A8:83:LEU:HG	2.16	0.45
10:AA:1563:C:H6	10:AA:1563:C:O5'	2.00	0.45
10:AA:72:G:C4	10:AA:76:A:C4	3.05	0.45
20:BK:150:ARG:O	20:BK:151:LEU:CB	2.64	0.45
16:AG:197:LYS:C	16:AG:200:ARG:HG2	2.36	0.45
10:BA:1366:G:C2	10:BA:1373:G:N2	2.83	0.45
31:BV:5:ARG:HG2	31:BV:10:LYS:HE2	1.98	0.45
10:BA:72:G:N3	10:BA:76:A:C2	2.84	0.45
10:AA:1370:U:C6	10:AA:1370:U:C3'	2.99	0.45
17:BH:30:VAL:HG13	17:BH:34:VAL:HB	1.98	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:642:G:C2'	10:AA:643:U:C5'	2.94	0.45
10:BA:1409:G:C6	10:BA:1410:C:C4	3.04	0.45
22:BM:61:LEU:HB3	22:BM:65:GLN:CG	2.45	0.45
34:BY:18:ILE:HD13	34:BY:41:LEU:HD21	1.97	0.45
10:AA:1241:U:O4	23:AN:27:GLN:NE2	2.48	0.45
10:AA:1569:A:H2'	10:AA:1570:U:O4'	2.16	0.45
19:AJ:66:ARG:HE	19:AJ:77:TRP:HH2	1.59	0.45
28:BS:55:SER:HB2	28:BS:58:TYR:CE2	2.50	0.45
7:B7:10:ILE:CG2	7:B7:14:LYS:HE3	2.42	0.45
10:AA:1313:G:O2'	10:AA:1314:C:H5'	2.16	0.45
10:BA:490:U:O2'	10:BA:491:U:H5'	2.16	0.45
16:BG:13:LEU:C	16:BG:15:GLY:N	2.68	0.45
10:BA:69:A:H2'	10:BA:70:U:H5''	1.97	0.45
22:BM:125:LEU:HD23	22:BM:129:TRP:NE1	2.31	0.45
21:BL:69:LYS:HZ2	21:BL:92:LEU:CB	2.29	0.45
2:A2:179:ARG:HG2	10:AA:321:U:OP1	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AI:31:LEU:HD13	18:AI:38:ILE:CD1	2.36	0.45
16:AG:13:LEU:HB2	16:AG:19:TYR:HE1	1.80	0.45
2:A2:140:ASN:CG	10:AA:182:U:H3	2.20	0.45
10:BA:295:U:H1'	26:BQ:68:LYS:HD3	1.99	0.45
10:BA:866:U:C2'	10:BA:867:U:H5''	2.47	0.45
10:AA:734:U:O2	10:AA:735:G:C8	2.69	0.45
10:BA:1699:A:O2'	10:BA:1700:A:H8	1.99	0.45
10:AA:1651:G:H1'	10:AA:1674:A:H62	1.81	0.45
26:AQ:146:ILE:HG23	26:AQ:153:GLN:NE2	2.24	0.45
10:AA:897:A:H2'	10:AA:898:U:C6	2.48	0.45
29:AT:15:ALA:HB3	29:AT:66:ARG:CZ	2.46	0.45
17:BH:102:VAL:CB	17:BH:113:HIS:HB2	2.41	0.45
15:AF:48:MET:SD	15:AF:59:ALA:HB1	2.56	0.45
25:AP:132:TRP:O	25:AP:136:GLN:HG2	2.17	0.45
12:AC:38:ALA:HB2	12:AC:94:ILE:CD1	2.43	0.45
11:AB:95:SER:O	11:AB:96:SER:C	2.54	0.45
2:A2:154:THR:CG2	2:A2:154:THR:O	2.64	0.45
13:BD:10:LYS:H	13:BD:10:LYS:HD2	1.82	0.45
24:AO:127:LEU:HD12	24:AO:131:TYR:CD2	2.50	0.45
15:AF:78:ARG:HH12	15:AF:100:GLY:HA3	1.79	0.45
4:B4:163:LYS:O	4:B4:166:GLN:N	2.45	0.45
24:AO:103:HIS:CE1	24:AO:107:ASN:ND2	2.84	0.45
10:AA:226:A:H5'	10:AA:227:G:OP1	2.16	0.45
10:AA:993:U:H5''	10:AA:994:C:OP2	2.17	0.45
10:AA:1435:G:C2	10:AA:1436:C:C5	3.03	0.45
20:BK:29:GLY:O	20:BK:93:LEU:HA	2.16	0.45
10:AA:613:A:O5'	10:AA:614:A:OP1	2.35	0.45
14:AE:184:ILE:CG2	14:AE:212:LEU:HD21	2.45	0.45
14:AE:220:ALA:C	14:AE:222:THR:N	2.70	0.45
10:BA:9:U:C2	10:BA:11:A:H5''	2.51	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
16:AG:34:ALA:HB1	16:AG:62:PRO:HA	1.97	0.45
10:AA:1454:A:C5'	18:AI:73:GLY:O	2.65	0.45
10:AA:128:A:C2'	10:AA:129:G:H5'	2.46	0.45
10:AA:82:A:H2'	10:AA:83:C:C6	2.51	0.45
12:AC:15:VAL:CG1	12:AC:16:ALA:N	2.80	0.45
10:BA:1008:A:C4'	10:BA:1009:U:OP2	2.63	0.45
10:BA:1579:G:H3'	18:BI:126:MET:HE2	1.99	0.45
10:AA:1006:C:O2'	10:AA:1007:U:H5''	2.16	0.45
10:AA:1718:A:N3	10:AA:1718:A:O4'	2.49	0.45
10:AA:1746:G:H4'	10:AA:1747:A:OP2	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:134:C:O2	10:BA:134:C:H2'	2.16	0.45
10:BA:1532:U:O5'	10:BA:1532:U:H6	2.00	0.45
9:B9:153:UNK:C	9:B9:156:UNK:HG3	2.46	0.45
10:AA:506:U:H5'	13:AD:131:GLN:HB3	1.97	0.45
10:BA:879:G:OP2	20:BK:39:ASP:CB	2.64	0.45
10:BA:1569:A:H2'	10:BA:1570:U:O4'	2.15	0.45
12:BC:9:ASN:C	12:BC:11:LYS:N	2.65	0.45
14:AE:228:PRO:O	14:AE:230:PHE:N	2.49	0.45
9:A9:154:UNK:CA	9:A9:157:UNK:HG3	2.45	0.45
30:AU:46:VAL:HG22	30:AU:59:VAL:HG11	1.98	0.45
10:AA:1153:U:C2	10:AA:1157:U:H5	2.33	0.45
14:BE:230:PHE:CB	35:BZ:13:MET:HE2	2.40	0.45
3:B3:129:ASP:O	3:B3:132:LEU:HD13	2.16	0.45
27:BR:159:GLU:HB3	27:BR:199:TRP:CZ3	2.51	0.45
10:BA:682:C:H2'	10:BA:683:A:O4'	2.16	0.45
26:BQ:21:LYS:C	26:BQ:23:LEU:N	2.69	0.45
26:BQ:78:LYS:O	26:BQ:79:MET:HB2	2.17	0.45
4:B4:73:ALA:HB3	20:BK:128:ARG:HH22	1.79	0.45
14:BE:41:LYS:HD3	14:BE:244:PHE:CD2	2.51	0.45
12:AC:74:GLN:HA	12:AC:77:GLN:NE2	2.31	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
32:AW:124:LYS:NZ	32:AW:145:ASP:CG	2.70	0.45
10:BA:1516:U:O2'	22:BM:148:CYS:O	2.29	0.45
10:BA:1042:G:H2'	10:BA:1043:U:O4'	2.16	0.45
3:A3:81:ILE:O	3:A3:85:GLU:HG3	2.16	0.45
29:AT:32:LEU:HD11	29:AT:58:TYR:CZ	2.51	0.45
2:B2:175:CYS:HB3	2:B2:189:TYR:CE1	2.51	0.45
10:BA:1054:U:C5'	10:BA:1055:G:OP1	2.64	0.45
13:BD:171:ARG:CB	13:BD:175:LYS:HZ1	2.30	0.45
24:AO:68:LEU:C	24:AO:68:LEU:CD2	2.85	0.45
11:BB:85:PHE:CD2	11:BB:171:TYR:HD1	2.34	0.45
10:BA:1644:C:H6	10:BA:1644:C:O5'	1.99	0.45
10:AA:1621:G:N3	10:AA:1705:A:C2	2.85	0.45
20:AK:61:LYS:HE3	20:AK:76:GLN:HB3	1.99	0.45
12:BC:4:THR:O	12:BC:5:THR:C	2.55	0.45
25:BP:112:ILE:HG23	25:BP:120:ILE:HG23	1.98	0.45
11:AB:121:THR:HG22	11:AB:143:LEU:HD12	1.98	0.45
10:AA:1742:G:H8	10:AA:1742:G:H5''	1.81	0.45
25:AP:43:ALA:O	25:AP:47:LYS:N	2.48	0.45
32:AW:201:GLU:CD	32:AW:201:GLU:H	2.19	0.45
29:AT:36:GLU:HG3	29:AT:37:PHE:N	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:184:ILE:CG2	14:AE:212:LEU:CD2	2.94	0.45
29:BT:40:TRP:HA	29:BT:40:TRP:CE3	2.52	0.45
10:AA:845:G:OP1	24:AO:5:GLN:CB	2.64	0.45
34:BY:181:ARG:NH1	34:BY:181:ARG:CG	2.79	0.45
22:BM:134:ARG:C	22:BM:136:GLN:H	2.20	0.45
10:BA:1572:A:N7	10:BA:1574:C:N4	2.64	0.45
10:AA:835:U:H2'	10:AA:836:G:H5'	1.99	0.45
27:AR:144:LEU:HB3	27:AR:153:PHE:H	1.82	0.45
10:BA:1312:U:H4'	10:BA:1313:G:OP2	2.15	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
10:BA:683:A:N1	10:BA:718:A:N1	2.64	0.45
26:BQ:56:LYS:HD3	26:BQ:130:ILE:HG21	1.98	0.45
10:BA:477:G:C6	10:BA:496:G:C2	3.04	0.45
34:AY:132:LYS:HZ3	34:AY:163:ARG:HB2	1.82	0.45
10:AA:210:A:H8	10:AA:210:A:O5'	1.99	0.45
10:BA:210:A:O5'	10:BA:210:A:H8	1.99	0.45
28:AS:95:VAL:CG2	28:AS:117:ILE:HD11	2.46	0.45
5:A5:15:ARG:HB3	10:AA:915:C:N4	2.30	0.45
10:BA:745:G:H2'	10:BA:746:A:H8	1.81	0.45
14:BE:35:ARG:CZ	14:BE:251:LYS:HB2	2.47	0.45
11:AB:56:ALA:CB	11:AB:157:ILE:HD11	2.46	0.45
32:BW:193:ARG:NH1	32:BW:246:VAL:HA	2.32	0.45
32:AW:94:ILE:HD12	32:AW:99:GLN:HG3	1.99	0.45
10:BA:839:U:O2'	17:BH:56:HIS:O	2.34	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:BA:457:G:C2'	10:BA:458:U:H5'	2.46	0.45
34:AY:153:PRO:CG	34:AY:154:ILE:H	2.22	0.45
3:B3:62:LEU:HD12	3:B3:63:ILE:N	2.31	0.45
33:BX:34:ARG:CZ	33:BX:34:ARG:HB3	2.46	0.45
25:AP:84:GLU:HA	25:AP:85:PRO:HD3	1.78	0.45
14:BE:239:LEU:HG	35:BZ:48:GLN:OE1	2.16	0.45
29:AT:27:LYS:HG2	29:AT:58:TYR:CD2	2.51	0.45
19:AJ:19:VAL:HG21	19:AJ:98:VAL:HG21	1.98	0.45
14:BE:46:ASP:HA	14:BE:49:PHE:HD2	1.79	0.45
10:BA:243:G:C6	10:BA:244:A:C6	3.04	0.45
10:BA:1416:G:O2'	10:BA:1417:A:P	2.75	0.45
12:AC:96:PHE:N	12:AC:96:PHE:CD1	2.84	0.45
10:AA:1310:C:H1'	10:AA:1381:A:C4	2.51	0.45
30:BU:58:LEU:O	30:BU:61:ALA:HB3	2.16	0.45
10:AA:1055:G:C6	10:AA:1056:A:N7	2.84	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:36:GLY:O	12:BC:55:ALA:CB	2.65	0.45
9:B9:124:PHE:H	9:B9:124:PHE:HD1	1.65	0.45
10:AA:1125:A:N6	10:AA:1126:C:N4	2.64	0.45
4:A4:95:ASP:O	4:A4:96:GLY:O	2.35	0.45
10:AA:1590:C:O2'	10:AA:1591:C:P	2.74	0.45
33:BX:35:SER:O	33:BX:39:ILE:HG13	2.16	0.45
10:BA:803:A:C2	10:BA:830:G:C2	3.03	0.45
35:AZ:93:TYR:HB3	35:AZ:94:PRO:HD3	1.98	0.45
10:BA:820:U:O2'	10:BA:821:C:H5'	2.17	0.45
4:A4:163:LYS:O	4:A4:166:GLN:N	2.45	0.45
5:B5:53:ILE:HD13	20:BK:116:LEU:HD13	1.98	0.45
10:BA:774:A:H2'	10:BA:775:C:C6	2.52	0.45
10:AA:583:C:O2'	33:AX:61:ASN:HB2	2.17	0.45
10:AA:1686:C:O2'	10:AA:1687:C:H5'	2.17	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
10:AA:580:G:H2'	10:AA:581:C:C6	2.50	0.45
10:BA:21:U:H6	10:BA:21:U:O5'	1.99	0.45
2:A2:130:GLY:O	2:A2:131:LEU:C	2.55	0.45
10:AA:1329:G:H2'	10:AA:1330:U:C6	2.51	0.45
10:AA:269:G:N2	10:AA:275:C:C2	2.85	0.45
14:AE:159:ILE:HD11	14:AE:222:THR:HA	1.99	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
22:AM:25:LYS:C	22:AM:25:LYS:HD2	2.37	0.45
29:BT:56:TRP:C	29:BT:56:TRP:CD1	2.89	0.45
33:BX:28:ARG:HA	33:BX:28:ARG:HD3	1.57	0.45
10:AA:760:G:N2	10:AA:766:G:C2	2.84	0.45
25:AP:10:ILE:HG12	25:AP:21:LEU:HB2	1.98	0.45
10:AA:941:A:O4'	10:AA:941:A:OP2	2.35	0.45
17:AH:55:ASP:HB3	17:AH:59:LYS:HA	1.97	0.45
18:BI:15:LYS:O	18:BI:16:LYS:C	2.55	0.45
27:BR:225:GLY:O	27:BR:242:ILE:CD1	2.62	0.45
34:BY:160:VAL:CG1	34:BY:161:ILE:H	2.00	0.45
22:BM:134:ARG:O	22:BM:136:GLN:N	2.50	0.45
9:B9:158:UNK:HA	9:B9:161:UNK:CG	2.46	0.45
10:BA:837:A:C4	24:BO:75:ARG:CZ	2.99	0.45
24:AO:136:LYS:O	24:AO:137:LEU:HB2	2.16	0.45
10:BA:1732:U:H2'	10:BA:1734:A:OP2	2.17	0.45
22:BM:102:SER:O	22:BM:106:ASP:OD2	2.34	0.45
10:AA:1532:U:O5'	10:AA:1532:U:H6	1.99	0.45
22:AM:134:ARG:C	22:AM:136:GLN:H	2.19	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:3:ILE:CG2	25:AP:4:VAL:H	2.30	0.45
12:BC:10:LYS:H	12:BC:10:LYS:HG2	1.49	0.45
10:BA:584:C:H5''	33:BX:44:ARG:HH22	1.81	0.45
9:A9:142:LYS:HE2	9:A9:147:UNK:HB1	1.99	0.45
27:AR:92:ILE:HG22	27:AR:93:SER:N	2.32	0.45
27:BR:74:GLY:O	27:BR:75:HIS:O	2.35	0.45
2:B2:105:VAL:HG13	10:BA:320:G:O3'	2.16	0.45
10:BA:336:U:H4'	10:BA:337:G:O5'	2.15	0.45
10:AA:683:A:N1	10:AA:718:A:N1	2.65	0.45
10:AA:246:U:C4'	10:AA:247:C:OP2	2.65	0.45
8:B8:47:LYS:HA	8:B8:50:VAL:CG2	2.47	0.45
35:AZ:47:VAL:CG2	35:AZ:48:GLN:N	2.80	0.45
10:BA:1362:U:H2'	10:BA:1363:U:C6	2.52	0.45
33:AX:34:ARG:CZ	33:AX:34:ARG:HB3	2.44	0.45
10:BA:651:G:N2	10:BA:652:A:C4	2.84	0.45
17:BH:87:GLU:O	17:BH:91:ASN:ND2	2.41	0.45
10:AA:292:G:C5	10:AA:293:U:C5	3.04	0.45
21:BL:29:PHE:CE1	21:BL:33:LEU:HD12	2.52	0.45
32:BW:134:GLY:HA3	32:BW:135:PRO:HD2	1.74	0.45
10:AA:1299:C:HO2'	12:AC:162:CYS:CB	2.29	0.45
10:AA:1499:A:C2	18:AI:76:TYR:CZ	3.05	0.45
2:B2:175:CYS:HB3	2:B2:189:TYR:CZ	2.52	0.45
30:BU:87:THR:HG21	30:BU:95:LYS:HE3	1.96	0.45
9:B9:86:THR:CG2	9:B9:87:LYS:N	2.79	0.45
10:BA:1063:A:HO2'	10:BA:1064:A:P	2.35	0.45
10:BA:514:G:C2'	10:BA:515:U:H5'	2.46	0.45
29:AT:116:ILE:HG23	29:AT:136:GLY:CA	2.46	0.45
24:AO:101:ARG:HH12	24:AO:145:ALA:CB	2.29	0.45
10:BA:272:U:C4	10:BA:273:A:H8	2.33	0.45
11:BB:144:CYS:O	11:BB:158:PRO:HA	2.16	0.45
10:BA:25:A:H61	10:BA:593:A:N6	2.13	0.45
1:A1:45:VAL:CG1	1:A1:46:LYS:N	2.80	0.45
15:BF:55:LEU:O	15:BF:56:SER:HB2	2.16	0.45
10:BA:1504:U:C2'	10:BA:1505:C:H5'	2.46	0.45
33:BX:35:SER:O	33:BX:38:ARG:HB3	2.16	0.45
10:AA:99:A:C5	10:AA:300:C:C4	3.04	0.45
32:BW:215:ALA:O	32:BW:217:GLY:N	2.49	0.45
24:BO:98:LEU:HD12	24:BO:98:LEU:HA	1.69	0.45
10:BA:847:A:H2'	10:BA:848:C:O4'	2.16	0.45
29:AT:29:ALA:O	29:AT:30:ASN:C	2.55	0.45
27:BR:338:PHE:N	27:BR:338:PHE:CD1	2.84	0.45
25:AP:104:SER:HB3	25:AP:128:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:225:LYS:HE2	27:AR:210:LYS:H	1.81	0.45
27:AR:221:ILE:HG12	27:AR:228:ILE:HG12	1.98	0.45
31:AV:101:GLU:O	31:AV:104:GLU:HB2	2.16	0.45
10:AA:21:U:H6	10:AA:21:U:O5'	1.99	0.45
14:AE:70:ASP:O	14:AE:72:GLN:HG3	2.17	0.45
11:AB:26:ASN:ND2	11:AB:28:GLN:HB2	2.31	0.45
4:B4:191:SER:O	4:B4:195:ILE:HG13	2.16	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
29:AT:43:THR:O	29:AT:100:HIS:CE1	2.69	0.45
4:A4:174:ILE:O	4:A4:178:ILE:HG13	2.17	0.45
10:AA:1486:U:O2'	12:AC:8:ILE:HA	2.15	0.45
24:BO:135:GLN:HG3	26:BQ:147:ILE:CD1	2.44	0.45
10:BA:760:G:O5'	10:BA:760:G:H8	1.99	0.45
10:BA:1601:G:H2'	10:BA:1602:U:O4'	2.17	0.45
24:AO:5:GLN:HE22	24:AO:126:ARG:HH11	1.63	0.45
10:AA:746:A:N7	10:AA:747:G:N7	2.65	0.45
13:AD:125:SER:O	13:AD:129:ILE:CD1	2.64	0.45
10:BA:880:G:C5	10:BA:881:U:H5	2.35	0.45
24:BO:5:GLN:HE22	24:BO:126:ARG:NH1	2.15	0.45
10:AA:668:U:H2'	10:AA:669:G:O4'	2.15	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
8:B8:65:THR:O	8:B8:66:VAL:C	2.54	0.45
10:BA:1174:A:H3'	10:BA:1174:A:C8	2.51	0.45
35:BZ:2:ASN:O	35:BZ:3:SER:C	2.55	0.45
11:AB:5:ARG:HG2	11:AB:187:LYS:HZ2	1.82	0.45
10:AA:1155:A:H5'	10:AA:1156:A:OP2	2.17	0.45
28:BS:42:PHE:CD2	28:BS:46:THR:HG21	2.51	0.45
30:BU:32:VAL:O	30:BU:36:ILE:HG13	2.17	0.45
27:AR:101:ARG:HD3	27:AR:110:THR:HG21	1.99	0.45
26:AQ:75:ILE:HD11	26:AQ:86:ARG:HD3	1.99	0.45
2:B2:92:ASN:HB3	2:B2:95:ASN:O	2.17	0.45
10:BA:332:A:H2'	10:BA:333:C:C6	2.52	0.45
10:AA:216:G:N2	10:AA:821:C:H1'	2.31	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
10:BA:90:U:OP1	32:BW:3:ARG:CD	2.55	0.45
32:AW:143:THR:HG22	32:AW:144:HIS:N	2.31	0.45
32:AW:101:PHE:HA	32:AW:114:LYS:O	2.16	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:733:G:N2	10:AA:783:U:O2	2.50	0.45
10:BA:419:C:H5'	13:BD:1:MET:HE1	1.97	0.45
21:BL:78:ASN:O	21:BL:79:SER:HB2	2.16	0.45
34:AY:62:PRO:O	34:AY:98:ARG:HB3	2.16	0.45
32:BW:11:ARG:NH1	32:BW:21:ASN:HB3	2.31	0.45
10:BA:1254:U:H2'	10:BA:1255:U:C6	2.51	0.45
14:BE:45:LEU:N	14:BE:64:PHE:HE2	2.14	0.45
28:BS:95:VAL:CG2	28:BS:117:ILE:HD11	2.45	0.45
16:BG:107:PHE:HA	16:BG:172:ILE:HG23	1.97	0.45
7:B7:55:LEU:HD12	7:B7:68:LEU:HA	1.98	0.45
3:B3:13:THR:O	3:B3:14:LYS:C	2.54	0.45
29:BT:25:HIS:CE1	29:BT:28:LYS:HZ1	2.35	0.45
10:AA:1191:A:H2'	10:AA:1192:C:H5'	1.98	0.45
18:BI:138:SER:O	18:BI:139:LYS:HG3	2.17	0.45
30:AU:16:ILE:HD12	30:AU:82:TYR:CD2	2.47	0.45
1:A1:26:GLN:NE2	1:A1:65:ARG:HA	2.31	0.45
19:AJ:45:THR:HB	19:AJ:48:VAL:HG23	1.98	0.45
11:AB:194:MET:HE2	31:AV:89:SER:HB3	1.98	0.45
34:BY:167:THR:C	34:BY:169:LYS:N	2.69	0.45
10:BA:283:A:H2'	10:BA:284:U:C6	2.51	0.45
16:AG:47:THR:O	16:AG:47:THR:HG22	2.17	0.45
4:A4:47:LYS:HZ2	20:AK:20:ASN:ND2	2.15	0.45
23:AN:10:PRO:CB	23:AN:12:ASN:HD22	2.29	0.45
8:A8:44:PHE:CD1	8:A8:44:PHE:O	2.70	0.45
10:AA:357:A:H2'	10:AA:358:A:H8	1.81	0.45
14:BE:85:THR:HA	14:BE:86:PRO:HD3	1.76	0.45
18:AI:21:VAL:O	18:AI:69:ILE:HA	2.17	0.45
10:AA:1058:A:H5'	14:AE:165:SER:HB3	1.98	0.45
10:AA:1514:G:N2	10:AA:1540:G:C2'	2.78	0.45
16:AG:158:PHE:C	16:AG:160:SER:H	2.20	0.45
18:AI:12:PHE:CD1	18:AI:12:PHE:C	2.89	0.45
10:AA:133:A:C5'	10:AA:134:C:H5'	2.47	0.45
29:AT:40:TRP:HA	29:AT:40:TRP:CE3	2.51	0.45
5:B5:38:ARG:NE	10:BA:1751:U:C5	2.85	0.45
10:BA:1718:A:O4'	10:BA:1718:A:N3	2.49	0.45
10:AA:841:A:N3	10:AA:841:A:H2'	2.31	0.45
10:AA:841:A:C2'	10:AA:842:U:OP1	2.64	0.45
16:BG:35:CYS:H	16:BG:63:ILE:CD1	2.26	0.45
10:BA:1585:U:P	16:BG:66:ARG:HH12	2.40	0.45
4:A4:120:TRP:CZ3	4:A4:156:SER:HA	2.51	0.45
10:BA:1279:U:C5	10:BA:1280:G:N7	2.84	0.45
10:BA:444:A:HO2'	10:BA:445:U:P	2.33	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:B3:142:ARG:O	3:B3:149:SER:HA	2.16	0.45
10:BA:933:A:H2'	10:BA:934:U:O4'	2.16	0.45
17:BH:74:VAL:CG1	17:BH:126:LEU:O	2.63	0.45
10:AA:892:G:O2'	10:AA:893:A:O4'	2.34	0.45
34:AY:18:ILE:HD13	34:AY:41:LEU:HD21	1.97	0.45
13:BD:139:ASN:CG	13:BD:140:LEU:N	2.69	0.45
10:AA:633:U:C2'	10:AA:634:C:OP2	2.65	0.45
11:BB:5:ARG:HH22	11:BB:12:ARG:NH2	2.09	0.45
10:AA:800:A:C2	10:AA:833:A:C2	3.05	0.45
10:BA:623:U:N3	10:BA:949:A:C6	2.84	0.45
4:A4:26:LEU:O	20:AK:16:TYR:CD2	2.70	0.45
2:A2:8:LYS:C	2:A2:10:LYS:H	2.19	0.45
27:BR:102:LEU:HG	27:BR:114:PHE:CE1	2.52	0.45
27:BR:96:TRP:HB3	27:BR:120:GLU:CG	2.46	0.45
10:BA:316:G:O4'	26:BQ:79:MET:CE	2.64	0.45
10:AA:682:C:H2'	10:AA:683:A:O4'	2.17	0.45
31:BV:71:LEU:O	31:BV:72:LYS:C	2.54	0.45
4:A4:186:GLY:O	4:A4:189:GLU:N	2.50	0.45
10:AA:820:U:H2'	10:AA:821:C:O4'	2.17	0.45
10:BA:904:A:O2'	10:BA:905:C:H5'	2.17	0.45
10:BA:1500:C:H5''	16:BG:86:LYS:CE	2.47	0.45
11:BB:119:ILE:HA	11:BB:141:ILE:O	2.16	0.45
26:AQ:11:LYS:HB3	26:AQ:53:VAL:CB	2.46	0.45
11:AB:98:ARG:NH1	11:AB:101:PRO:CD	2.79	0.45
2:B2:22:ARG:HD3	2:B2:25:ARG:NH2	2.32	0.45
2:B2:43:THR:O	2:B2:44:THR:HB	2.16	0.45
32:BW:124:LYS:NZ	32:BW:145:ASP:CG	2.70	0.45
32:BW:67:ASP:C	32:BW:69:GLU:H	2.20	0.45
27:AR:190:VAL:HG23	27:AR:219:LEU:HD22	1.97	0.45
10:AA:1465:C:C2'	10:AA:1466:C:C5'	2.87	0.45
10:AA:867:U:H2'	10:AA:868:U:O4'	2.16	0.45
2:B2:26:ALA:O	2:B2:29:LYS:HG2	2.16	0.45
10:BA:393:C:O2	10:BA:393:C:C2'	2.48	0.45
11:BB:19:HIS:O	11:BB:43:TYR:HA	2.17	0.45
28:BS:86:ARG:HD2	28:BS:102:TYR:O	2.17	0.45
10:AA:98:U:C6	10:AA:98:U:C3'	3.00	0.45
34:AY:69:VAL:O	34:AY:99:GLY:HA3	2.16	0.45
17:BH:112:THR:HG22	17:BH:114:GLU:H	1.82	0.45
16:BG:153:CYS:HA	16:BG:167:THR:HG22	1.99	0.45
10:AA:512:C:C5	10:AA:513:A:C8	3.05	0.45
33:AX:44:ARG:HA	33:AX:49:ILE:HD12	1.98	0.45
30:AU:108:TYR:CE2	30:AU:120:ILE:HD13	2.51	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:31:PRO:CB	32:AW:38:LEU:HD23	2.45	0.45
10:BA:388:A:H2'	10:BA:389:G:O4'	2.17	0.45
10:BA:24:C:H2'	10:BA:25:A:C8	2.52	0.45
11:AB:191:TRP:CD1	11:AB:193:VAL:HB	2.50	0.45
6:B6:35:CYS:HB3	6:B6:38:CYS:SG	2.55	0.45
25:BP:27:HIS:O	25:BP:29:ASP:N	2.50	0.45
2:B2:66:LEU:C	2:B2:67:ARG:HG2	2.37	0.45
2:A2:169:SER:O	2:A2:170:GLN:CB	2.63	0.45
10:AA:1590:C:O2'	10:AA:1591:C:OP2	2.28	0.45
12:BC:146:LYS:NZ	12:BC:153:MET:CE	2.80	0.45
3:A3:192:PHE:CE1	6:A6:14:LYS:HA	2.49	0.45
10:BA:1266:G:C2	10:BA:1267:G:C8	3.03	0.45
27:BR:139:GLU:O	27:BR:140:ARG:CB	2.65	0.45
20:BK:110:PRO:HG2	20:BK:111:GLY:N	2.32	0.45
12:AC:49:THR:HB	12:AC:87:ILE:HG12	1.99	0.45
11:AB:115:PRO:HG2	11:AB:138:ILE:HD12	1.99	0.45
27:BR:307:GLY:O	27:BR:308:LYS:C	2.55	0.45
9:A9:72:LYS:O	9:A9:73:LYS:O	2.35	0.45
10:AA:1343:G:C2'	10:AA:1344:U:OP1	2.64	0.45
10:AA:919:A:H2'	10:AA:920:G:H5'	1.99	0.45
10:AA:369:A:OP2	10:AA:370:U:OP2	2.35	0.45
4:A4:122:THR:HG22	4:A4:123:LEU:N	2.32	0.45
10:BA:1272:A:H5''	14:BE:87:VAL:HG11	1.98	0.45
8:A8:65:THR:O	8:A8:66:VAL:C	2.55	0.45
10:AA:1563:C:C6	10:AA:1563:C:C3'	3.00	0.45
25:AP:21:LEU:N	25:AP:21:LEU:CD2	2.77	0.45
5:B5:97:ARG:O	5:B5:98:ARG:HB2	2.16	0.45
18:AI:3:GLN:O	18:AI:4:GLN:HG3	2.17	0.45
16:BG:72:MET:HE2	16:BG:81:LYS:HA	1.98	0.45
10:AA:1004:A:C2	10:AA:1745:G:C5	3.05	0.45
10:AA:1717:C:C3'	10:AA:1718:A:H5'	2.46	0.45
10:BA:1217:G:O2'	10:BA:1218:C:OP2	2.34	0.45
10:BA:86:C:H1'	10:BA:444:A:OP2	2.16	0.45
10:AA:751:U:C5	10:AA:752:C:C4	3.05	0.45
20:BK:45:THR:CG2	20:BK:46:ASP:N	2.79	0.45
31:AV:59:LYS:HA	31:AV:62:GLN:HG2	1.99	0.45
17:BH:75:ILE:O	17:BH:75:ILE:HG22	2.17	0.45
10:BA:1250:G:H2'	10:BA:1251:C:O4'	2.17	0.45
10:BA:1244:U:O4	10:BA:1402:C:O2	2.34	0.45
10:BA:1567:U:H5'	23:BN:29:LEU:CD1	2.45	0.45
23:BN:31:THR:O	23:BN:31:THR:HG22	2.16	0.45
23:BN:40:ARG:HG2	23:BN:40:ARG:H	1.33	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:AA:1713:G:H1'	10:AA:1734:A:C2	2.52	0.45
13:BD:136:VAL:O	13:BD:139:ASN:O	2.35	0.45
3:A3:179:THR:HG22	10:AA:636:G:H1'	1.98	0.45
10:AA:1154:U:C3'	10:AA:1155:A:H5''	2.47	0.45
10:BA:673:A:N3	10:BA:675:A:N6	2.65	0.45
14:BE:232:GLY:C	35:BZ:13:MET:HB2	2.37	0.45
10:BA:949:A:H3'	10:BA:950:G:H8	1.82	0.45
30:BU:79:LEU:HD22	30:BU:103:LEU:CD1	2.32	0.45
5:A5:53:ILE:HD13	20:AK:116:LEU:CD1	2.46	0.45
10:BA:715:G:C2	10:BA:716:G:N1	2.85	0.45
5:A5:15:ARG:HD2	10:AA:914:G:O6	2.16	0.45
17:AH:74:VAL:CG1	17:AH:75:ILE:N	2.79	0.45
10:AA:1293:A:O2'	10:AA:1294:A:OP2	2.34	0.45
10:BA:1301:A:C2'	10:BA:1302:G:C5'	2.92	0.45
32:AW:193:ARG:HG3	32:AW:193:ARG:HH11	1.82	0.45
32:BW:143:THR:HG22	32:BW:144:HIS:N	2.31	0.45
10:AA:193:C:H2'	10:AA:194:G:C8	2.51	0.45
4:B4:138:ILE:CD1	4:B4:190:PHE:CE2	3.00	0.45
24:AO:134:ASN:O	24:AO:135:GLN:C	2.54	0.45
10:AA:1305:C:H1'	12:AC:165:GLN:HG3	1.99	0.45
3:A3:73:LEU:HD12	3:A3:73:LEU:O	2.16	0.45
10:BA:453:G:OP2	13:BD:1:MET:CG	2.62	0.45
34:AY:71:GLY:CA	34:AY:98:ARG:NH1	2.80	0.45
7:B7:88:ILE:HG21	7:B7:93:LYS:HD2	1.98	0.45
10:BA:1663:A:H2'	10:BA:1664:A:H8	1.82	0.45
16:AG:150:ILE:O	16:AG:151:LYS:C	2.55	0.45
10:BA:976:A:C2'	10:BA:977:U:H5'	2.46	0.45
10:BA:787:A:C8	17:BH:107:THR:HA	2.51	0.45
14:BE:48:ILE:HG23	14:BE:53:ILE:HD12	1.99	0.45
16:BG:67:LEU:HD22	16:BG:107:PHE:CE1	2.52	0.45
2:B2:115:THR:CB	2:B2:116:PRO:HD3	2.42	0.45
20:BK:121:ARG:C	20:BK:123:GLY:H	2.19	0.45
31:AV:112:GLN:NE2	31:AV:113:ASN:ND2	2.64	0.45
5:A5:10:ARG:HD3	5:A5:33:ASP:OD2	2.17	0.45
34:BY:9:LEU:CD2	34:BY:9:LEU:H	2.18	0.45
35:BZ:78:GLU:O	35:BZ:79:ALA:C	2.55	0.45
1:B1:46:LYS:HZ2	16:BG:140:ARG:HH21	1.63	0.45
29:BT:119:LYS:CE	29:BT:130:ARG:NH1	2.80	0.45
10:AA:1055:G:HO2'	10:AA:1056:A:H5'	1.82	0.45
11:AB:141:ILE:HG23	11:AB:155:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A9:120:GLY:O	9:A9:122:GLY:N	2.49	0.45
15:BF:75:GLY:O	15:BF:76:ASP:HB2	2.16	0.45
13:AD:170:GLY:O	13:AD:174:ARG:HB2	2.16	0.45
19:AJ:97:ASP:O	19:AJ:100:THR:HB	2.17	0.45
11:BB:85:PHE:HE2	11:BB:174:ILE:HB	1.82	0.45
12:AC:58:PRO:HA	12:AC:61:VAL:HG23	1.99	0.45
27:AR:13:LYS:HZ3	27:AR:295:GLU:CB	2.29	0.45
19:BJ:18:ARG:CG	19:BJ:18:ARG:O	2.65	0.45
9:A9:119:CYS:O	9:A9:123:ILE:HD12	2.17	0.45
10:BA:1390:G:H4'	23:BN:55:ARG:HB3	1.99	0.45
2:B2:123:LEU:HD21	10:BA:180:C:C5'	2.47	0.45
29:BT:36:GLU:HG3	29:BT:37:PHE:N	2.31	0.45
27:AR:307:GLY:O	27:AR:308:LYS:C	2.55	0.45
16:BG:145:ALA:O	16:BG:149:ILE:HG13	2.17	0.45
10:BA:1596:C:O2'	10:BA:1597:G:H5'	2.17	0.45
17:BH:36:LYS:O	17:BH:40:ILE:HG13	2.17	0.45
17:BH:79:TYR:H	17:BH:79:TYR:HD1	1.62	0.45
10:AA:533:G:H2'	10:AA:534:A:C5'	2.46	0.45
8:A8:65:THR:CG2	16:AG:166:GLU:OE2	2.65	0.45
10:BA:533:G:N2	10:BA:535:A:C6	2.82	0.45
24:BO:134:ASN:O	24:BO:135:GLN:C	2.54	0.45
25:BP:18:ARG:HA	25:BP:73:VAL:O	2.17	0.45
10:BA:1608:C:C2	10:BA:1610:G:C4	3.04	0.45
17:AH:55:ASP:O	17:AH:57:ARG:N	2.50	0.45
16:BG:34:ALA:HB1	16:BG:62:PRO:HA	1.98	0.45
10:AA:911:A:O2'	10:AA:912:A:P	2.74	0.45
10:BA:82:A:H2'	10:BA:83:C:C6	2.52	0.45
9:B9:150:UNK:HA	9:B9:153:UNK:HG1	1.97	0.45
10:BA:840:A:H4'	17:BH:57:ARG:HG2	1.98	0.45
17:BH:59:LYS:CD	17:BH:59:LYS:N	2.64	0.45
10:BA:1513:G:C6	10:BA:1514:G:C2	3.05	0.45
10:AA:892:G:N3	10:AA:892:G:H2'	2.31	0.45
13:BD:132:ARG:C	13:BD:134:ILE:N	2.71	0.45
10:AA:1082:G:C2	10:AA:1109:U:O2	2.70	0.45
10:AA:1430:C:O2'	10:AA:1431:A:P	2.75	0.45
3:B3:134:SER:HB2	3:B3:159:ASP:OD2	2.17	0.45
27:BR:95:SER:OG	27:BR:96:TRP:N	2.50	0.45
10:AA:478:G:H3'	10:AA:479:G:O4'	2.16	0.45
10:BA:496:G:C2	10:BA:497:G:C8	3.04	0.45
10:BA:52:G:OP1	25:BP:110:ARG:NH2	2.50	0.45
26:AQ:4:GLN:NE2	26:AQ:10:GLN:OE1	2.50	0.45
26:AQ:53:VAL:HG12	26:AQ:53:VAL:O	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:A8:47:LYS:HD2	8:A8:48:LYS:HG3	1.99	0.45
10:AA:1263:G:H2'	10:AA:1264:G:H8	1.82	0.45
32:BW:102:ARG:HB2	32:BW:114:LYS:CB	2.46	0.45
17:AH:56:HIS:CE1	24:AO:22:ARG:HE	2.35	0.45
32:AW:67:ASP:C	32:AW:69:GLU:H	2.20	0.45
34:BY:55:GLY:HA3	34:BY:63:MET:SD	2.57	0.45
34:BY:98:ARG:HG2	34:BY:106:MET:CE	2.46	0.45
10:AA:572:U:H4'	10:AA:573:A:H5''	1.94	0.45
10:BA:734:U:O2	10:BA:735:G:C8	2.70	0.45
10:AA:110:A:O2'	26:AQ:64:SER:CB	2.64	0.45
10:BA:454:C:P	32:BW:26:ILE:HD11	2.57	0.45
18:AI:24:VAL:HG13	18:AI:67:ILE:CG1	2.47	0.45
7:B7:99:PHE:HZ	12:BC:69:HIS:NE2	2.08	0.45
12:BC:175:VAL:HG13	12:BC:187:VAL:O	2.17	0.45
12:AC:36:GLY:O	12:AC:55:ALA:CB	2.64	0.45
11:AB:85:PHE:HE2	11:AB:174:ILE:HB	1.82	0.45
24:AO:48:THR:HB	24:AO:51:GLN:H	1.82	0.45
11:AB:127:PHE:CG	11:AB:128:GLN:N	2.85	0.45
31:AV:88:LYS:O	31:AV:89:SER:C	2.53	0.45
23:BN:52:VAL:HG21	23:BN:54:TYR:CE2	2.52	0.45
22:AM:97:ASN:C	22:AM:98:TYR:CD1	2.90	0.45
2:B2:142:GLU:HB2	2:B2:150:ARG:NH2	2.32	0.45
10:AA:14:C:O2	10:AA:14:C:H2'	2.16	0.45
10:AA:607:G:H4'	10:AA:608:C:O5'	2.16	0.45
10:BA:9:U:O2	10:BA:11:A:H5''	2.17	0.45
10:BA:546:G:N2	10:BA:566:C:N3	2.64	0.45
10:BA:4:C:O2'	13:BD:17:ARG:NH2	2.50	0.45
14:BE:142:LYS:CB	14:BE:152:ALA:HB1	2.47	0.45
14:BE:138:VAL:HG11	14:BE:220:ALA:HB1	1.99	0.45
17:BH:97:ARG:O	17:BH:98:GLN:HG2	2.16	0.45
10:AA:1514:G:N2	10:AA:1540:G:O2'	2.50	0.45
10:AA:760:G:C6	25:AP:8:LYS:HG2	2.52	0.45
24:BO:90:LEU:HD21	24:BO:141:TRP:HE1	1.82	0.45
10:BA:1598:U:H2'	10:BA:1599:U:H6	1.82	0.45
20:AK:75:MET:HG2	20:AK:121:ARG:HH22	1.81	0.45
20:BK:36:THR:HG22	20:BK:38:ASN:H	1.82	0.45
5:A5:30:VAL:HG12	5:A5:35:ALA:HB2	1.90	0.45
1:B1:61:GLU:O	1:B1:62:ARG:HG2	2.18	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
10:BA:1203:U:O4	10:BA:1227:G:N2	2.51	0.45
7:B7:6:LYS:HD3	30:BU:23:ASP:HA	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:20:HIS:CE1	27:AR:46:SER:HB3	2.51	0.45
27:AR:82:LEU:HD21	27:AR:93:SER:HB3	1.98	0.45
5:A5:53:ILE:HG23	20:AK:116:LEU:HD21	1.98	0.45
20:AK:54:VAL:HG22	20:AK:84:ARG:HG3	1.98	0.45
10:AA:820:U:O2'	10:AA:821:C:H5'	2.16	0.45
6:A6:9:ILE:HD12	6:A6:12:GLU:CG	2.47	0.45
10:BA:561:A:H2'	10:BA:562:G:O4'	2.16	0.45
22:BM:119:ILE:O	22:BM:120:LYS:HB2	2.16	0.45
16:AG:102:ASN:O	16:AG:105:GLU:N	2.46	0.45
10:AA:435:C:H2'	10:AA:436:C:O4'	2.17	0.45
32:AW:99:GLN:HB3	32:AW:101:PHE:CE1	2.42	0.45
10:BA:572:U:H4'	10:BA:573:A:H5''	1.93	0.45
4:A4:33:ASP:O	4:A4:99:ALA:HB3	2.17	0.45
35:AZ:78:GLU:O	35:AZ:79:ALA:C	2.55	0.45
10:BA:1298:A:C6	10:BA:1299:C:N4	2.85	0.45
10:BA:1039:C:O2'	10:BA:1040:C:H5'	2.16	0.45
11:BB:32:TYR:N	11:BB:32:TYR:CD1	2.84	0.45
11:AB:109:THR:HG22	11:AB:110:LEU:N	2.32	0.45
10:BA:23:A:O2'	10:BA:24:C:H5'	2.17	0.45
12:BC:215:ILE:CD1	31:BV:15:SER:HB2	2.46	0.45
32:BW:151:PHE:HD2	34:BY:212:TYR:CG	2.35	0.45
10:BA:101:A:H2'	10:BA:102:A:H8	1.81	0.45
13:AD:171:ARG:HG2	13:AD:175:LYS:HZ1	1.82	0.45
22:BM:92:PHE:O	28:BS:15:GLY:HA2	2.17	0.45
31:AV:76:GLU:O	31:AV:79:GLU:HB3	2.17	0.45
33:BX:31:PRO:O	33:BX:36:TYR:HB2	2.16	0.45
31:AV:103:LYS:CD	31:AV:118:VAL:HG21	2.47	0.45
11:BB:127:PHE:CG	11:BB:128:GLN:N	2.85	0.45
2:A2:74:SER:HB3	2:A2:81:THR:OG1	2.17	0.45
29:BT:29:ALA:O	29:BT:30:ASN:C	2.55	0.45
10:BA:410:G:O2'	10:BA:411:U:H5'	2.16	0.45
21:AL:27:ASN:O	21:AL:31:LYS:HB2	2.16	0.45
10:AA:1596:C:O2'	10:AA:1597:G:H5'	2.17	0.45
4:A4:202:LYS:HA	4:A4:202:LYS:HD3	1.76	0.45
27:AR:61:GLN:O	27:AR:61:GLN:HG3	2.16	0.45
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
34:AY:180:GLN:O	34:AY:181:ARG:CB	2.56	0.44
29:AT:45:VAL:CG1	29:AT:97:GLN:HG2	2.48	0.44
10:BA:759:G:O6	25:BP:9:LYS:HE2	2.17	0.44
10:BA:1608:C:C4	10:BA:1610:G:C2	3.04	0.44
10:AA:942:U:O2'	10:AA:943:U:P	2.75	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AH:55:ASP:OD1	17:AH:57:ARG:HB2	2.17	0.44
10:BA:1584:U:H2'	10:BA:1585:U:H5'	1.99	0.44
16:BG:45:PRO:HB2	16:BG:68:ILE:HD12	1.99	0.44
29:BT:21:GLU:HG3	29:BT:147:ILE:HD11	1.98	0.44
10:AA:1716:A:N6	10:AA:1717:C:N4	2.65	0.44
10:BA:1374:C:O2	10:BA:1374:C:C2'	2.63	0.44
10:BA:1413:C:C4'	10:BA:1418:C:H41	2.31	0.44
9:B9:152:UNK:CA	9:B9:155:UNK:HG3	2.47	0.44
10:AA:751:U:H6	10:AA:751:U:O5'	1.99	0.44
13:AD:132:ARG:C	13:AD:134:ILE:N	2.70	0.44
13:AD:109:LEU:HD22	13:AD:141:VAL:HG12	1.99	0.44
6:B6:47:ASN:ND2	6:B6:67:GLY:O	2.50	0.44
10:AA:639:C:H2'	10:AA:640:A:C8	2.53	0.44
10:BA:1617:G:H22	10:BA:1708:A:H2	1.64	0.44
8:B8:73:LEU:O	8:B8:74:LYS:HB2	2.17	0.44
10:BA:796:U:O2'	10:BA:797:A:OP1	2.27	0.44
27:AR:181:GLN:HG3	27:AR:183:PHE:CE2	2.52	0.44
15:BF:71:ILE:HG22	15:BF:73:LEU:CD2	2.46	0.44
11:BB:5:ARG:CB	11:BB:187:LYS:HZ1	2.30	0.44
10:AA:624:A:C6	10:AA:948:A:N7	2.86	0.44
10:BA:625:G:O2'	10:BA:626:U:H5'	2.16	0.44
2:A2:22:ARG:HD3	2:A2:25:ARG:NH2	2.32	0.44
27:AR:100:LEU:HD12	27:AR:100:LEU:N	2.32	0.44
27:AR:47:ARG:HD3	27:AR:78:PHE:CE2	2.51	0.44
27:AR:7:LEU:HA	27:AR:341:SER:CA	2.44	0.44
10:AA:317:G:P	26:AQ:56:LYS:HZ3	2.39	0.44
26:AQ:76:SER:HB2	26:AQ:78:LYS:HE2	1.98	0.44
26:BQ:76:SER:HB2	26:BQ:78:LYS:HE2	1.97	0.44
10:AA:904:A:O2'	10:AA:905:C:H5'	2.16	0.44
10:AA:1139:G:H2'	10:AA:1140:U:C6	2.52	0.44
16:BG:13:LEU:HB2	16:BG:19:TYR:HE1	1.81	0.44
22:AM:125:LEU:HD23	22:AM:129:TRP:NE1	2.29	0.44
3:A3:142:ARG:O	3:A3:149:SER:HA	2.17	0.44
26:AQ:18:ASN:HB3	26:AQ:19:SER:H	1.46	0.44
2:A2:194:LYS:HG2	26:AQ:4:GLN:HE21	1.79	0.44
2:A2:43:THR:O	2:A2:44:THR:HB	2.17	0.44
10:BA:1259:A:O2'	10:BA:1260:G:H8	1.96	0.44
27:BR:218:HIS:CG	27:BR:219:LEU:H	2.35	0.44
10:BA:1125:A:C6	10:BA:1126:C:C4	3.05	0.44
10:BA:295:U:H1'	26:BQ:68:LYS:CE	2.47	0.44
4:A4:194:LEU:HD12	4:A4:194:LEU:HA	1.78	0.44
18:AI:99:VAL:CG1	18:AI:100:ASP:H	2.21	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:867:U:H5'	10:AA:867:U:C6	2.51	0.44
34:BY:97:VAL:HG12	34:BY:98:ARG:N	2.32	0.44
3:A3:62:LEU:HD12	3:A3:63:ILE:N	2.32	0.44
10:AA:1652:A:N3	34:AY:66:GLY:HA2	2.31	0.44
10:BA:92:G:H21	10:BA:418:G:H5'	1.82	0.44
16:AG:96:HIS:O	16:AG:100:GLY:CA	2.65	0.44
29:AT:15:ALA:HB2	29:AT:66:ARG:CZ	2.47	0.44
10:BA:1038:U:H2'	10:BA:1039:C:C6	2.52	0.44
17:BH:114:GLU:O	17:BH:117:ARG:HG3	2.17	0.44
10:BA:1495:U:O2'	10:BA:1496:A:C5'	2.63	0.44
27:AR:237:LEU:C	27:AR:237:LEU:CD2	2.84	0.44
10:AA:1472:U:OP2	29:AT:105:ARG:NH1	2.50	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
18:BI:121:ALA:O	18:BI:123:PRO:CD	2.65	0.44
25:AP:146:PHE:O	25:AP:147:VAL:HG23	2.17	0.44
2:A2:78:GLU:HB2	2:A2:80:ILE:HG13	1.98	0.44
10:AA:1088:A:C2'	10:AA:1089:U:OP2	2.65	0.44
7:B7:52:ARG:HD2	7:B7:54:PHE:HE1	1.83	0.44
10:AA:29:G:H4'	21:AL:130:SER:HB2	1.99	0.44
10:AA:283:A:H2'	10:AA:284:U:C6	2.53	0.44
10:AA:197:A:C2'	10:AA:198:C:H5'	2.46	0.44
10:BA:1106:A:H2'	10:BA:1107:C:O4'	2.17	0.44
17:BH:10:CYS:SG	17:BH:27:LEU:HB3	2.57	0.44
27:BR:128:PRO:CB	27:BR:173:ILE:HD12	2.47	0.44
10:BA:357:A:H2'	10:BA:358:A:H8	1.82	0.44
10:BA:1394:U:OP1	12:BC:154:LYS:NZ	2.50	0.44
10:AA:359:U:H2'	10:AA:360:U:C5'	2.47	0.44
10:AA:600:A:O2'	10:AA:603:U:OP1	2.31	0.44
13:AD:16:ARG:O	13:AD:18:PRO:HD3	2.17	0.44
13:BD:23:ARG:O	13:BD:27:GLU:HG3	2.17	0.44
10:AA:1583:A:H2	10:AA:1584:U:O4	2.00	0.44
10:AA:160:C:O2'	34:AY:133:LEU:HB2	2.17	0.44
10:AA:265:C:OP1	34:AY:180:GLN:CD	2.56	0.44
10:BA:772:A:H2'	10:BA:773:U:H5'	1.98	0.44
4:B4:119:LYS:HD2	10:BA:911:A:OP1	2.18	0.44
6:A6:19:PHE:CE1	24:AO:17:ALA:HB2	2.52	0.44
10:BA:1370:U:O4	10:BA:1371:A:C2	2.71	0.44
10:BA:1532:U:H2'	10:BA:1533:G:H8	1.81	0.44
9:B9:150:UNK:O	9:B9:154:UNK:HG3	2.16	0.44
10:BA:892:G:H2'	10:BA:892:G:N3	2.32	0.44
20:BK:46:ASP:C	20:BK:48:SER:H	2.21	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B6:17:ASN:O	6:B6:20:LYS:N	2.33	0.44
17:BH:14:LEU:HD12	17:BH:25:VAL:HG21	1.98	0.44
10:BA:1158:U:O4	10:BA:1159:U:C4	2.71	0.44
10:BA:1443:A:H4'	10:BA:1444:U:O5'	2.07	0.44
22:BM:29:PRO:O	22:BM:32:LEU:HB2	2.17	0.44
22:BM:1:MET:N	22:BM:3:PHE:HE2	2.15	0.44
15:BF:71:ILE:CG2	15:BF:73:LEU:HD22	2.47	0.44
10:AA:1617:G:N2	10:AA:1710:G:C4	2.86	0.44
10:AA:1157:U:H4'	10:AA:1158:U:OP2	2.17	0.44
28:BS:46:THR:HG23	28:BS:89:ILE:HD12	1.97	0.44
14:BE:228:PRO:CA	14:BE:231:TRP:HD1	2.29	0.44
10:AA:957:A:H2'	10:AA:958:G:O4'	2.17	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
3:B3:127:LEU:HD23	3:B3:127:LEU:HA	1.87	0.44
27:BR:134:LEU:HD11	27:BR:203:PHE:CZ	2.52	0.44
10:AA:716:G:H2'	10:AA:717:G:C8	2.36	0.44
10:AA:224:G:O2'	10:AA:225:C:H5''	2.17	0.44
26:AQ:21:LYS:NZ	26:AQ:31:VAL:CG2	2.81	0.44
29:BT:124:ALA:CA	29:BT:127:LYS:HE2	2.46	0.44
12:BC:130:ILE:HD11	12:BC:157:GLN:HB3	1.99	0.44
22:BM:115:ARG:O	22:BM:119:ILE:HG13	2.17	0.44
27:AR:218:HIS:CG	27:AR:219:LEU:N	2.85	0.44
10:AA:90:U:OP1	32:AW:3:ARG:CD	2.59	0.44
10:AA:457:G:C5	10:AA:458:U:C5	3.05	0.44
34:AY:87:ARG:O	34:AY:88:ARG:CB	2.63	0.44
4:A4:138:ILE:CD1	4:A4:190:PHE:CE2	3.00	0.44
11:BB:1:MET:CE	31:BV:111:TYR:HA	2.47	0.44
22:BM:50:LEU:HB2	22:BM:52:ILE:HG13	1.98	0.44
20:AK:62:VAL:CG1	20:AK:63:LYS:N	2.71	0.44
34:AY:185:PRO:HA	34:AY:188:ILE:HD12	1.98	0.44
10:BA:986:G:N1	10:BA:987:U:C4	2.85	0.44
34:BY:152:ASP:CB	34:BY:153:PRO:HD2	2.39	0.44
10:BA:453:G:O3'	32:BW:26:ILE:HD11	2.17	0.44
34:AY:121:ILE:HB	34:AY:124:LEU:HD12	1.98	0.44
7:A7:52:ARG:HD2	7:A7:54:PHE:HE1	1.82	0.44
2:B2:80:ILE:HD11	2:B2:120:TRP:CZ3	2.53	0.44
10:AA:1166:A:H2'	10:AA:1167:C:C5'	2.47	0.44
10:BA:1492:U:O2'	10:BA:1493:A:O5'	2.32	0.44
10:BA:1626:A:C2	10:BA:1627:A:C4	3.05	0.44
12:AC:45:THR:HB	12:AC:48:LYS:H	1.82	0.44
12:BC:140:ILE:HB	12:BC:188:LYS:HB2	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:29:G:N2	10:BA:591:G:C4	2.85	0.44
20:BK:98:ARG:HH21	20:BK:100:LYS:HA	1.78	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
10:BA:128:A:C2'	10:BA:129:G:H5'	2.46	0.44
2:B2:65:ALA:HB3	2:B2:180:PRO:CB	2.47	0.44
22:AM:107:THR:O	22:AM:111:GLU:HG3	2.17	0.44
10:BA:1590:C:O2'	10:BA:1591:C:P	2.75	0.44
13:BD:91:ARG:O	13:BD:92:LYS:C	2.56	0.44
1:B1:26:GLN:HE22	1:B1:65:ARG:HA	1.82	0.44
10:AA:99:A:O2'	10:AA:299:C:N4	2.50	0.44
27:AR:139:GLU:O	27:AR:140:ARG:CB	2.65	0.44
7:A7:23:VAL:CG1	12:AC:78:LYS:HB3	2.47	0.44
13:AD:83:TYR:CD2	13:AD:147:MET:HG3	2.51	0.44
35:BZ:28:LEU:HA	35:BZ:29:PRO:HD2	1.85	0.44
10:AA:847:A:H4'	24:AO:92:PHE:CZ	2.52	0.44
10:BA:926:G:C6	10:BA:927:C:C4	3.05	0.44
4:A4:176:THR:O	4:A4:180:ASN:ND2	2.51	0.44
34:AY:126:THR:O	34:AY:126:THR:HG22	2.17	0.44
21:BL:135:PHE:CE1	33:BX:15:ARG:NH1	2.85	0.44
10:BA:269:G:N2	10:BA:275:C:C2	2.85	0.44
10:AA:5:U:OP1	14:AE:184:ILE:HD12	2.18	0.44
10:AA:533:G:N2	10:AA:535:A:C6	2.81	0.44
10:AA:1511:A:O3'	22:AM:40:ARG:NH2	2.50	0.44
10:AA:1495:U:O2'	10:AA:1496:A:O5'	2.26	0.44
10:BA:1601:G:H2'	10:BA:1602:U:H6	1.81	0.44
10:BA:133:A:N6	10:BA:169:G:C2'	2.80	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
6:B6:17:ASN:O	6:B6:18:LYS:C	2.56	0.44
6:B6:18:LYS:HZ1	10:BA:936:U:H5''	1.76	0.44
8:B8:72:LYS:HB2	8:B8:73:LEU:CD2	2.47	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
22:BM:11:PHE:HD1	22:BM:60:LEU:HD23	1.83	0.44
10:BA:835:U:H2'	10:BA:836:G:H5'	1.98	0.44
20:AK:36:THR:HG22	20:AK:38:ASN:H	1.81	0.44
23:BN:20:CYS:SG	23:BN:37:THR:HA	2.58	0.44
13:BD:37:LYS:CE	13:BD:126:ARG:NH1	2.80	0.44
13:BD:28:MET:HB3	33:BX:45:TYR:CD2	2.52	0.44
2:B2:18:MET:HE2	2:B2:19:PRO:O	2.17	0.44
14:BE:230:PHE:HB3	35:BZ:13:MET:CE	2.41	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:BB:194:MET:HE1	31:BV:89:SER:N	2.11	0.44
12:BC:226:GLU:O	27:BR:207:TYR:CD2	2.70	0.44
27:BR:101:ARG:HD3	27:BR:110:THR:HG21	2.00	0.44
2:B2:31:ARG:HB3	2:B2:32:PRO:HD2	1.99	0.44
10:AA:238:G:H2'	10:AA:239:A:H5'	1.99	0.44
10:AA:1259:A:H4'	10:AA:1260:G:O5'	2.16	0.44
33:AX:7:THR:O	33:AX:8:LEU:HB2	2.17	0.44
17:AH:103:VAL:C	17:AH:104:LEU:HD23	2.37	0.44
17:AH:74:VAL:CG1	17:AH:75:ILE:H	2.21	0.44
32:BW:193:ARG:HH11	32:BW:193:ARG:HG3	1.82	0.44
32:BW:49:LYS:HE3	32:BW:61:VAL:HG21	1.99	0.44
10:BA:551:U:HO2'	10:BA:552:C:P	2.40	0.44
10:BA:98:U:C6	10:BA:98:U:H3'	2.52	0.44
32:BW:10:LYS:O	32:BW:13:ASN:N	2.50	0.44
27:AR:275:ASP:HA	27:AR:311:GLN:CB	2.46	0.44
11:BB:99:TRP:CZ3	11:BB:132:GLU:OE2	2.71	0.44
21:AL:75:LEU:HD11	21:AL:82:ILE:HD11	1.99	0.44
35:BZ:48:GLN:HE21	35:BZ:68:VAL:HG22	1.81	0.44
2:A2:84:THR:HB	2:A2:112:ILE:CG2	2.48	0.44
30:BU:120:ILE:C	30:BU:122:GLY:N	2.71	0.44
7:B7:56:GLU:HB3	7:B7:67:TYR:CZ	2.52	0.44
2:A2:136:THR:CG2	2:A2:137:VAL:N	2.80	0.44
2:B2:136:THR:CG2	2:B2:137:VAL:N	2.79	0.44
13:AD:91:ARG:O	13:AD:92:LYS:C	2.56	0.44
11:AB:70:MET:O	11:AB:118:LEU:HD12	2.18	0.44
2:A2:80:ILE:HD13	2:A2:120:TRP:CE3	2.51	0.44
3:A3:52:LYS:CB	3:A3:56:LYS:HE2	2.44	0.44
10:BA:177:U:H2'	10:BA:178:U:H6	1.81	0.44
19:BJ:45:THR:HB	19:BJ:48:VAL:HG23	1.98	0.44
27:BR:24:VAL:HG23	27:BR:331:GLY:HA2	1.98	0.44
10:AA:542:G:H5''	38:AA:2254:HOH:O	2.17	0.44
31:AV:83:ASP:C	31:AV:84:TYR:HD1	2.21	0.44
4:A4:69:GLU:O	4:A4:69:GLU:CD	2.55	0.44
8:B8:34:LYS:HD2	8:B8:36:LYS:H	1.82	0.44
10:AA:463:A:O2'	10:AA:464:G:H5'	2.17	0.44
25:BP:76:ASN:C	25:BP:78:GLN:N	2.70	0.44
27:BR:14:ARG:HE	27:BR:337:SER:CB	2.29	0.44
10:AA:1026:C:O5'	10:AA:1026:C:H6	2.01	0.44
4:A4:197:GLU:O	4:A4:201:LYS:HG3	2.17	0.44
15:BF:58:ASN:CB	15:BF:74:ASN:HD21	2.30	0.44
10:AA:742:U:O2'	10:AA:743:U:H5'	2.17	0.44
14:AE:102:PHE:CD2	14:AE:116:TRP:HB3	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1513:G:C6	10:AA:1514:G:C2	3.05	0.44
16:AG:154:ARG:HA	16:AG:157:ALA:HB3	2.00	0.44
22:AM:18:LEU:CD2	22:AM:70:THR:HG23	2.47	0.44
22:BM:44:TYR:CE2	29:BT:49:LEU:HD21	2.53	0.44
29:BT:56:TRP:HE1	29:BT:103:ILE:CD1	2.30	0.44
10:AA:1583:A:C2	10:AA:1584:U:O4	2.70	0.44
10:AA:65:C:H5'	34:AY:177:PRO:HA	1.99	0.44
10:BA:760:G:N2	10:BA:766:G:C2	2.85	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
16:BG:44:VAL:CG1	16:BG:45:PRO:HD2	2.46	0.44
1:A1:61:GLU:OE2	20:AK:121:ARG:HD2	2.17	0.44
10:BA:46:A:C2	10:BA:417:A:N6	2.85	0.44
10:BA:444:A:C3'	10:BA:445:U:C6	2.98	0.44
4:B4:33:ASP:O	4:B4:99:ALA:HB3	2.16	0.44
10:BA:873:G:N1	10:BA:895:U:N3	2.65	0.44
6:B6:18:LYS:HZ3	24:BO:16:SER:N	2.16	0.44
9:B9:72:LYS:O	9:B9:73:LYS:O	2.35	0.44
10:BA:1425:G:H4'	28:BS:127:THR:CG2	2.47	0.44
10:BA:800:A:C2	10:BA:833:A:C2	3.06	0.44
10:BA:668:U:H2'	10:BA:669:G:O4'	2.16	0.44
10:BA:667:C:O3'	17:BH:119:ARG:CZ	2.65	0.44
9:A9:155:UNK:HA	9:A9:158:UNK:HG3	1.98	0.44
10:BA:506:U:H4'	13:BD:131:GLN:HB3	1.99	0.44
17:AH:68:ARG:CD	17:AH:68:ARG:O	2.66	0.44
10:AA:157:G:O5'	10:AA:157:G:C8	2.70	0.44
14:BE:231:TRP:HZ2	17:BH:45:GLY:O	2.00	0.44
10:AA:150:A:H1'	10:AA:407:A:C5	2.52	0.44
10:BA:624:A:C6	10:BA:948:A:N7	2.86	0.44
27:AR:96:TRP:HA	27:AR:120:GLU:CB	2.46	0.44
10:BA:706:U:O2'	10:BA:707:U:H5'	2.18	0.44
20:AK:27:VAL:HG11	20:AK:90:ILE:HG12	1.98	0.44
10:BA:150:A:H1'	10:BA:407:A:C5	2.52	0.44
10:BA:684:A:H2'	10:BA:685:A:N9	2.31	0.44
10:BA:332:A:H2'	10:BA:333:C:H6	1.83	0.44
34:AY:167:THR:C	34:AY:169:LYS:N	2.68	0.44
17:AH:4:VAL:O	17:AH:5:ASN:C	2.56	0.44
26:AQ:21:LYS:C	26:AQ:23:LEU:N	2.70	0.44
14:AE:247:PHE:C	14:AE:249:HIS:N	2.69	0.44
32:BW:127:LYS:HZ3	32:BW:186:GLN:NE2	2.13	0.44
16:AG:104:LEU:C	16:AG:106:VAL:H	2.21	0.44
17:AH:56:HIS:CE1	24:AO:22:ARG:NE	2.86	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:72:LEU:HA	22:AM:79:HIS:HE2	1.81	0.44
10:BA:1305:C:C1'	12:BC:165:GLN:HG3	2.46	0.44
28:BS:121:LEU:O	28:BS:121:LEU:HD12	2.17	0.44
10:BA:732:U:C4	10:BA:784:G:C6	3.05	0.44
10:BA:589:G:C6	10:BA:590:C:N4	2.85	0.44
10:AA:1016:U:H3	10:AA:1064:A:H61	1.66	0.44
27:AR:235:LYS:HG3	27:AR:256:SER:C	2.37	0.44
11:AB:144:CYS:O	11:AB:158:PRO:HA	2.16	0.44
10:BA:1299:C:O2'	12:BC:162:CYS:CB	2.65	0.44
20:BK:75:MET:HG2	20:BK:121:ARG:HH22	1.82	0.44
10:BA:1496:A:H2	10:BA:1562:G:N3	2.15	0.44
13:AD:28:MET:HB3	33:AX:45:TYR:HD2	1.82	0.44
10:BA:1162:C:C2'	10:BA:1163:U:OP2	2.66	0.44
10:AA:1492:U:O2'	10:AA:1493:A:OP2	2.35	0.44
15:BF:49:LYS:HG2	15:BF:53:LYS:HZ1	1.82	0.44
27:BR:211:ALA:HB1	27:BR:212:HIS:CD2	2.52	0.44
5:A5:28:ARG:HG3	20:AK:147:ARG:HA	1.99	0.44
7:B7:54:PHE:HB3	7:B7:72:GLY:HA2	1.98	0.44
21:AL:139:LYS:O	21:AL:140:GLU:HG3	2.18	0.44
4:A4:93:GLU:O	4:A4:100:LYS:HB2	2.18	0.44
16:AG:171:GLU:OE2	16:AG:183:SER:HB2	2.17	0.44
7:A7:103:GLU:HB2	12:AC:202:LYS:HZ3	1.82	0.44
10:BA:1446:A:H2'	10:BA:1447:C:C6	2.52	0.44
10:AA:285:C:H2'	10:AA:286:A:O4'	2.18	0.44
28:BS:60:LYS:NZ	28:BS:64:LYS:CE	2.80	0.44
14:BE:229:ASP:OD2	35:BZ:16:LEU:HD13	2.17	0.44
13:BD:150:THR:HG22	13:BD:151:ASP:N	2.32	0.44
34:BY:127:VAL:CG1	34:BY:129:LEU:HG	2.47	0.44
3:A3:26:LEU:HD23	3:A3:87:LYS:NZ	2.33	0.44
3:B3:160:ARG:O	3:B3:164:GLU:HB2	2.17	0.44
24:AO:108:ARG:O	24:AO:108:ARG:HG2	2.17	0.44
34:BY:213:GLU:HA	34:BY:213:GLU:OE1	2.18	0.44
24:AO:69:THR:HB	24:AO:71:GLN:HB2	1.99	0.44
10:BA:522:C:O2'	10:BA:523:U:H5'	2.17	0.44
13:AD:15:PRO:HG3	13:AD:23:ARG:NH1	2.31	0.44
10:BA:533:G:C8	10:BA:533:G:H3'	2.53	0.44
22:AM:81:ILE:N	29:AT:40:TRP:CZ2	2.86	0.44
29:AT:49:LEU:HD12	29:AT:50:ALA:H	1.83	0.44
10:BA:770:G:OP1	32:BW:257:LYS:NZ	2.50	0.44
18:BI:41:ILE:HD11	18:BI:50:ILE:HD12	1.96	0.44
10:AA:46:A:C2	10:AA:417:A:N6	2.84	0.44
10:BA:1033:A:H2'	10:BA:1034:A:O4'	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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
10:BA:444:A:O5'	10:BA:445:U:H5	2.00	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:1532:U:H5	28:BS:45:LYS:HZ3	1.63	0.44
17:BH:15:VAL:HG22	17:BH:72:CYS:SG	2.58	0.44
10:AA:646:A:H2'	10:AA:647:U:O4'	2.17	0.44
10:AA:883:A:H3'	10:AA:883:A:C8	2.53	0.44
20:AK:43:HIS:HE1	20:AK:52:THR:CG2	2.30	0.44
10:BA:642:G:C2'	10:BA:643:U:C5'	2.94	0.44
35:BZ:1:MET:O	35:BZ:2:ASN:C	2.56	0.44
34:AY:5:ILE:CD1	34:AY:111:LEU:HD12	2.45	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
1:A1:12:MET:HE2	1:A1:30:VAL:HG22	2.00	0.44
7:B7:11:ARG:C	7:B7:15:GLN:HE21	2.21	0.44
27:AR:7:LEU:CD2	27:AR:341:SER:HA	2.48	0.44
4:A4:134:ASP:OD1	4:A4:186:GLY:HA2	2.17	0.44
16:BG:104:LEU:C	16:BG:106:VAL:H	2.21	0.44
26:AQ:17:LEU:HD13	26:AQ:21:LYS:HE2	1.97	0.44
10:AA:1263:G:H21	10:AA:1296:G:N2	2.07	0.44
14:AE:32:LYS:HB2	14:AE:241:PHE:HE2	1.83	0.44
10:AA:187:U:O2'	10:AA:188:G:C8	2.71	0.44
14:BE:27:TRP:HD1	14:BE:38:LYS:HD3	1.81	0.44
26:BQ:70:ILE:CG2	26:BQ:71:LYS:N	2.80	0.44
10:BA:733:G:N2	10:BA:783:U:O2	2.50	0.44
13:AD:121:SER:HB3	13:AD:124:HIS:H	1.82	0.44
3:B3:48:PHE:HE2	3:B3:62:LEU:HD23	1.82	0.44
10:BA:231:U:H3'	10:BA:232:G:H5''	2.00	0.44
12:BC:159:TYR:CD1	12:BC:159:TYR:N	2.86	0.44
21:AL:78:ASN:ND2	21:AL:80:LYS:HG2	2.32	0.44
25:AP:109:LYS:O	25:AP:113:LYS:HB2	2.18	0.44
7:B7:52:ARG:CB	7:B7:54:PHE:CE1	3.01	0.44
23:BN:7:ARG:HD3	23:BN:7:ARG:HA	1.84	0.44
19:BJ:37:GLU:C	19:BJ:104:PHE:HZ	2.21	0.44
32:AW:129:THR:HG22	32:AW:130:ALA:N	2.32	0.44
2:A2:73:PHE:N	2:A2:73:PHE:CD1	2.86	0.44
18:BI:58:GLY:O	18:BI:60:GLN:N	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AM:63:GLU:HA	22:AM:66:CYS:HB2	2.00	0.44
10:AA:737:A:H8	10:AA:737:A:O5'	2.01	0.44
18:AI:61:LYS:N	18:AI:61:LYS:HD3	2.33	0.44
27:BR:61:GLN:O	27:BR:61:GLN:HG3	2.18	0.44
10:AA:267:A:H2'	10:AA:268:G:C8	2.53	0.44
10:BA:610:G:C2	10:BA:1078:U:O2	2.71	0.44
14:AE:81:VAL:CG1	14:AE:82:LEU:N	2.80	0.44
14:BE:207:THR:O	14:BE:207:THR:HG22	2.18	0.44
10:AA:468:U:H5'	10:AA:469:A:C5'	2.48	0.44
10:AA:1584:U:H2'	10:AA:1585:U:H5'	1.98	0.44
34:AY:181:ARG:CG	34:AY:181:ARG:NH1	2.81	0.44
10:AA:932:G:H5'	24:AO:7:LYS:NZ	2.32	0.44
10:AA:1338:A:C6	10:AA:1339:G:N7	2.86	0.44
5:A5:81:ILE:O	5:A5:83:SER:N	2.50	0.44
10:BA:1418:C:H6	10:BA:1418:C:H5'	1.78	0.44
10:BA:1418:C:O2'	10:BA:1419:G:OP1	2.34	0.44
10:BA:135:A:O2'	10:BA:136:U:P	2.75	0.44
10:AA:465:A:H2'	10:AA:466:A:O4'	2.17	0.44
13:AD:41:GLU:O	13:AD:44:ARG:HB3	2.17	0.44
4:B4:35:ARG:NH1	4:B4:98:ASN:OD1	2.50	0.44
6:B6:18:LYS:HZ2	10:BA:936:U:C5'	2.24	0.44
6:B6:18:LYS:HZ3	24:BO:16:SER:H	1.66	0.44
17:BH:31:SER:OG	17:BH:34:VAL:HG23	2.18	0.44
10:BA:1713:G:H1'	10:BA:1734:A:C2	2.53	0.44
10:BA:1514:G:N2	10:BA:1540:G:C2'	2.78	0.44
8:B8:43:VAL:HB	22:BM:25:LYS:CE	2.47	0.44
10:AA:892:G:OP1	10:AA:892:G:O4'	2.36	0.44
8:A8:31:THR:HA	15:BF:42:PHE:HB3	2.00	0.44
15:BF:44:TYR:O	15:BF:48:MET:N	2.44	0.44
10:BA:1460:U:P	12:BC:9:ASN:HD21	2.41	0.44
12:AC:35:ALA:HB2	12:AC:60:GLN:HG3	1.99	0.44
3:A3:127:LEU:HD13	3:A3:153:ILE:CD1	2.48	0.44
30:AU:121:GLU:HA	30:AU:124:LEU:CD1	2.47	0.44
10:AA:1168:A:N6	10:AA:1573:G:H2'	2.32	0.44
10:BA:955:A:HO2'	10:BA:956:A:H5'	1.78	0.44
10:AA:1430:C:O2'	10:AA:1431:A:O5'	2.36	0.44
7:B7:4:VAL:H	10:BA:1229:U:H1'	1.83	0.44
27:AR:184:ALA:O	27:AR:185:PRO:C	2.54	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
10:AA:237:U:C4	10:AA:238:G:H1'	2.53	0.44
28:AS:38:LEU:HA	28:AS:41:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:181:G:C3'	10:BA:182:U:C5'	2.94	0.44
26:AQ:15:VAL:HG12	26:AQ:15:VAL:O	2.17	0.44
10:AA:1263:G:N2	10:AA:1296:G:C2	2.85	0.44
27:BR:289:ALA:O	27:BR:291:VAL:N	2.50	0.44
32:BW:70:GLN:OE1	32:BW:78:VAL:HG21	2.18	0.44
32:AW:240:LEU:HD12	32:AW:245:GLY:H	1.83	0.44
10:AA:1466:C:C5'	10:AA:1466:C:H6	2.21	0.44
10:AA:457:G:C2'	10:AA:458:U:H5'	2.48	0.44
10:AA:435:C:H4'	10:AA:518:A:C2	2.52	0.44
21:AL:52:VAL:HB	21:AL:98:ASN:H	1.82	0.44
28:BS:101:VAL:O	28:BS:108:VAL:N	2.44	0.44
10:AA:787:A:C6	10:AA:788:U:C4	3.06	0.44
29:BT:32:LEU:HD11	29:BT:58:TYR:CZ	2.53	0.44
10:AA:1652:A:C2	10:AA:1674:A:N3	2.86	0.44
12:AC:159:TYR:CD1	12:AC:159:TYR:N	2.85	0.44
10:BA:292:G:C5	10:BA:293:U:C5	3.06	0.44
16:AG:153:CYS:HA	16:AG:167:THR:HG22	1.99	0.44
28:AS:85:TYR:CD1	28:AS:85:TYR:N	2.85	0.44
10:AA:1166:A:C2'	10:AA:1167:C:H5'	2.48	0.44
10:BA:1396:A:H4'	14:BE:93:ALA:O	2.18	0.44
12:BC:96:PHE:N	12:BC:96:PHE:CD1	2.86	0.44
12:BC:45:THR:HG23	12:BC:46:PRO:HD2	2.00	0.44
11:AB:19:HIS:O	11:AB:43:TYR:HA	2.16	0.44
9:A9:116:CYS:SG	9:A9:137:CYS:SG	3.16	0.44
11:AB:122:ASP:HB3	11:AB:125:SER:HB2	1.99	0.44
24:BO:127:LEU:HD12	24:BO:131:TYR:CD2	2.52	0.44
33:AX:31:PRO:CG	33:AX:39:ILE:HD11	2.46	0.44
10:BA:348:G:O2'	10:BA:349:U:H5'	2.18	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
20:AK:104:GLU:O	20:AK:106:LYS:N	2.50	0.44
27:BR:8:ASP:CG	27:BR:343:ASN:HD21	2.19	0.44
1:B1:8:LYS:HG2	1:B1:56:GLU:OE2	2.17	0.44
1:A1:8:LYS:HG2	1:A1:56:GLU:CD	2.37	0.44
22:AM:123:ARG:NH1	22:AM:123:ARG:CG	2.79	0.44
14:BE:216:TYR:HD1	14:BE:217:TYR:CD1	2.35	0.44
12:AC:50:GLU:OE2	12:AC:52:ARG:HD2	2.17	0.44
10:BA:1091:G:OP2	10:BA:1092:U:C5	2.71	0.44
10:AA:25:A:H61	10:AA:593:A:N6	2.15	0.44
10:BA:1081:G:H8	10:BA:1081:G:C5'	2.19	0.44
14:BE:142:LYS:HB3	14:BE:152:ALA:HB1	1.98	0.44
10:AA:1511:A:O2'	10:AA:1512:G:P	2.76	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:A8:43:VAL:CG2	22:AM:25:LYS:HE3	2.47	0.44
10:AA:86:C:H1'	10:AA:444:A:OP2	2.18	0.44
10:AA:756:G:H4'	10:AA:757:C:OP1	2.17	0.44
18:BI:43:PRO:C	18:BI:45:ILE:H	2.19	0.44
17:AH:30:VAL:HG13	17:AH:34:VAL:HB	1.98	0.44
10:AA:937:U:H1'	24:AO:63:PRO:HB2	2.00	0.44
10:AA:425:A:H2'	10:AA:426:G:O4'	2.17	0.44
4:B4:121:GLN:NE2	4:B4:145:PHE:CD2	2.80	0.44
1:A1:9:ALA:CB	1:A1:31:LEU:HD23	2.29	0.44
10:AA:1010:A:H2'	10:AA:1011:C:C6	2.53	0.44
10:AA:976:A:C2'	10:AA:977:U:H5'	2.48	0.44
9:B9:146:UNK:HA	9:B9:149:UNK:HG1	1.99	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
8:B8:73:LEU:N	8:B8:73:LEU:HD23	2.33	0.44
8:B8:38:LYS:CE	10:BA:1507:U:O3'	2.65	0.44
10:BA:1442:A:N7	10:BA:1512:G:H1'	2.32	0.44
16:BG:154:ARG:HA	16:BG:157:ALA:HB3	2.00	0.44
22:BM:1:MET:N	22:BM:3:PHE:CE2	2.85	0.44
22:AM:134:ARG:O	22:AM:136:GLN:N	2.50	0.44
34:BY:23:LYS:CD	34:BY:41:LEU:HD23	2.29	0.44
10:BA:643:U:C2'	10:BA:644:U:O4'	2.65	0.44
10:BA:666:A:O2'	10:BA:667:C:C5'	2.59	0.44
15:BF:48:MET:O	15:BF:52:LYS:HG3	2.17	0.44
10:AA:125:U:O2	10:AA:125:U:H2'	2.16	0.44
10:AA:794:A:C5'	10:AA:795:A:OP2	2.62	0.44
30:BU:32:VAL:HG12	30:BU:36:ILE:CD1	2.48	0.44
12:AC:226:GLU:HB2	27:AR:208:THR:H	1.83	0.44
10:AA:715:G:C2	10:AA:716:G:N1	2.85	0.44
31:BV:76:GLU:O	31:BV:79:GLU:HB3	2.18	0.44
10:BA:238:G:H2'	10:BA:239:A:H5'	2.00	0.44
10:BA:1046:G:C2	10:BA:1047:C:C5	3.05	0.44
21:BL:69:LYS:HZ2	21:BL:92:LEU:HD23	1.81	0.44
14:BE:32:LYS:HB2	14:BE:241:PHE:HE2	1.82	0.44
33:AX:7:THR:CG2	33:AX:10:LYS:HB2	2.34	0.44
31:BV:35:LEU:HD11	31:BV:50:ILE:CG2	2.48	0.44
2:B2:41:GLN:C	2:B2:43:THR:H	2.21	0.44
32:BW:48:LEU:N	32:BW:48:LEU:CD2	2.73	0.44
21:BL:95:LEU:CD2	21:BL:126:VAL:HG22	2.48	0.44
32:AW:144:HIS:CG	32:AW:145:ASP:N	2.85	0.44
10:AA:986:G:O2'	10:AA:987:U:H5'	2.18	0.44
32:AW:78:VAL:O	32:AW:79:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BU:97:VAL:O	30:BU:97:VAL:HG22	2.17	0.44
34:BY:71:GLY:CA	34:BY:98:ARG:NH1	2.81	0.44
21:AL:75:LEU:CD2	21:AL:82:ILE:HD12	2.42	0.44
10:AA:1667:U:H2'	10:AA:1668:U:O4'	2.17	0.44
10:BA:1190:G:O4'	10:BA:1415:A:N6	2.50	0.44
10:AA:1144:A:H2'	10:AA:1145:C:C6	2.53	0.44
10:BA:1605:A:HO2'	10:BA:1606:C:P	2.33	0.44
10:AA:1054:U:C5'	10:AA:1055:G:OP1	2.65	0.44
22:BM:16:ARG:NH1	22:BM:19:ASN:O	2.50	0.44
12:BC:71:GLU:O	12:BC:75:PHE:CD2	2.71	0.44
10:BA:128:A:H2'	10:BA:129:G:H5'	2.00	0.44
13:AD:171:ARG:CB	13:AD:175:LYS:HZ1	2.31	0.44
19:BJ:38:ILE:HG12	19:BJ:104:PHE:HE2	1.82	0.44
24:BO:80:ASN:O	24:BO:82:CYS:N	2.51	0.44
32:AW:255:LYS:HA	32:AW:260:TYR:H	1.82	0.44
19:AJ:117:THR:HG22	19:AJ:118:ALA: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
32:AW:6:LYS:HB2	32:AW:30:ARG:HH12	1.81	0.44
4:B4:69:GLU:HB2	4:B4:86:LYS:CE	2.47	0.44
34:BY:222:GLN:HA	34:BY:225:ALA:HB3	1.98	0.44
10:BA:1081:G:C2	10:BA:1110:A:C6	3.06	0.44
10:BA:15:U:C6	10:BA:16:G:C8	3.05	0.44
22:AM:35:ILE:O	22:AM:37:GLY:N	2.51	0.44
10:AA:1583:A:N3	10:AA:1584:U:C5	2.86	0.44
10:AA:280:U:H2'	10:AA:281:A:H8	1.83	0.44
10:AA:262:G:OP2	34:AY:198:LYS:HE3	2.17	0.44
10:AA:772:A:H2'	10:AA:773:U:H5'	1.99	0.44
25:BP:10:ILE:HG12	25:BP:21:LEU:HB2	1.96	0.44
10:BA:1724:U:H5''	10:BA:1724:U:H6	1.83	0.44
10:AA:630:A:OP1	17:AH:6:ILE:HD11	2.17	0.44
10:AA:840:A:O2'	10:AA:841:A:H5''	2.18	0.44
10:AA:912:A:C3'	10:AA:912:A:N3	2.80	0.44
31:BV:17:ILE:HD12	31:BV:57:LEU:HD12	2.00	0.44
10:BA:44:U:H5'	10:BA:44:U:H6	1.83	0.44
10:BA:125:U:C4	10:BA:171:U:C4	3.06	0.44
10:BA:71:U:O2'	10:BA:72:G:P	2.75	0.44
34:BY:136:LYS:HG3	34:BY:178:LYS:O	2.17	0.44
9:B9:146:UNK:O	9:B9:149:UNK:HG3	2.17	0.44
10:AA:753:C:O3'	13:AD:9:SER:OG	2.24	0.44
10:AA:747:G:H21	10:AA:755:G:H1	1.64	0.44
13:AD:37:LYS:CE	13:AD:126:ARG:NH1	2.80	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:BH:55:ASP:HB3	17:BH:59:LYS:HA	1.99	0.44
22:BM:32:LEU:HD21	22:BM:69:ILE:HD13	2.00	0.44
10:BA:646:A:H2'	10:BA:647:U:O4'	2.17	0.44
13:BD:38:ASN:HD22	13:BD:40:ARG:HD2	1.80	0.44
1:B1:21:ARG:HD3	1:B1:21:ARG:HA	1.80	0.44
14:AE:231:TRP:CZ3	35:AZ:8:GLN:HB2	2.41	0.44
3:A3:174:TYR:CD2	3:A3:182:VAL:HG21	2.52	0.44
10:AA:1409:G:C2	10:AA:1410:C:C2	3.06	0.44
10:AA:1173:G:C2'	10:AA:1174:A:OP1	2.65	0.44
10:AA:328:G:O3'	26:AQ:132:LYS:HG2	2.18	0.44
26:AQ:78:LYS:O	26:AQ:79:MET:HB2	2.18	0.44
10:BA:1311:C:H4'	10:BA:1312:U:OP2	2.18	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:341:G:O4'	10:BA:343:C:O2	2.35	0.44
26:BQ:18:ASN:O	26:BQ:21:LYS:HB2	2.17	0.44
26:BQ:11:LYS:HB3	26:BQ:53:VAL:CB	2.47	0.44
10:BA:746:A:N7	10:BA:747:G:N7	2.66	0.44
2:A2:64:ARG:HH22	10:AA:323:U:P	2.41	0.44
26:AQ:21:LYS:HZ2	26:AQ:31:VAL:HG23	1.83	0.44
2:A2:41:GLN:C	2:A2:43:THR:H	2.20	0.44
10:BA:1261:U:H3'	10:BA:1261:U:C6	2.52	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:194:VAL:HG11	32:BW:230:LEU:HD23	1.99	0.44
21:BL:95:LEU:HD23	21:BL:126:VAL:HG22	2.00	0.44
10:BA:90:U:OP1	32:BW:3:ARG:CB	2.64	0.44
32:AW:127:LYS:HZ2	32:AW:186:GLN:NE2	2.15	0.44
10:AA:1290:G:N2	10:AA:1291:U:C2	2.86	0.44
10:BA:66:A:OP1	34:BY:175:LYS:HD3	2.17	0.44
34:BY:62:PRO:O	34:BY:98:ARG:HB3	2.17	0.44
31:BV:98:ILE:CG2	31:BV:102:THR:HB	2.47	0.44
10:BA:898:U:H2'	10:BA:899:U:O4'	2.18	0.44
3:A3:62:LEU:HD11	3:A3:64:TYR:HE1	1.81	0.44
10:BA:538:A:C2	10:BA:588:A:C5	3.05	0.44
2:B2:35:MET:HE1	2:B2:37:LYS:HG3	1.99	0.44
32:AW:134:GLY:HA3	32:AW:135:PRO:HD2	1.73	0.44
16:BG:150:ILE:O	16:BG:151:LYS:C	2.55	0.44
27:AR:87:GLU:N	27:AR:87:GLU:CD	2.64	0.44
29:BT:86:ASN:OD1	29:BT:94:ASN:HB3	2.18	0.44
7:A7:56:GLU:HB3	7:A7:67:TYR:CZ	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1190:G:O4'	10:AA:1415:A:N6	2.50	0.44
32:AW:207:PHE:HE2	32:AW:223:ARG:NE	2.16	0.44
23:AN:4:LYS:O	23:AN:5:LEU:HD12	2.18	0.44
12:BC:58:PRO:HA	12:BC:61:VAL:HG23	1.99	0.44
1:A1:26:GLN:HE22	1:A1:65:ARG:HA	1.83	0.44
10:AA:1248:U:OP1	12:AC:149:ARG:HA	2.17	0.44
10:BA:820:U:H2'	10:BA:821:C:O4'	2.17	0.44
11:AB:81:ALA:HB2	11:AB:168:SER:HB3	2.00	0.44
3:B3:190:LYS:HZ3	6:B6:23:ILE:HD12	1.82	0.44
10:AA:964:G:H2'	10:AA:965:G:O4'	2.18	0.44
10:BA:744:A:O5'	10:BA:744:A:H8	2.00	0.44
23:BN:10:PRO:CB	23:BN:12:ASN:HD22	2.30	0.44
29:BT:82:ILE:HG22	29:BT:82:ILE:O	2.17	0.44
10:AA:1699:A:O2'	10:AA:1700:A:H8	2.01	0.44
4:A4:191:SER:O	4:A4:195:ILE:HG13	2.18	0.44
10:BA:979:A:C2	15:BF:30:LYS:NZ	2.85	0.44
22:AM:141:SER:O	22:AM:142:GLY:C	2.55	0.44
2:A2:161:LYS:O	2:A2:165:GLU:HG3	2.17	0.44
14:AE:83:GLN:C	14:AE:84:ILE:HG13	2.38	0.44
33:AX:28:ARG:HD3	33:AX:28:ARG:HA	1.57	0.44
10:AA:1442:A:N7	10:AA:1512:G:H1'	2.33	0.44
22:BM:81:ILE:N	29:BT:40:TRP:HZ2	2.16	0.44
29:BT:44:SER:O	29:BT:45:VAL:HB	2.18	0.44
16:AG:52:GLN:HE22	16:AG:58:LYS:HE2	1.82	0.44
10:AA:86:C:O2	10:AA:443:A:H4'	2.18	0.44
10:AA:65:C:C4	34:AY:133:LEU:HD22	2.53	0.44
29:AT:41:THR:HG23	29:AT:50:ALA:HB2	1.99	0.44
10:AA:760:G:O6	25:AP:9:LYS:HE3	2.18	0.44
10:BA:1746:G:H4'	10:BA:1747:A:OP2	2.16	0.44
10:BA:1750:A:OP1	10:BA:1750:A:H4'	2.18	0.44
4:B4:122:THR:HG22	4:B4:123:LEU:N	2.32	0.44
10:BA:1557:U:C4	10:BA:1583:A:N6	2.86	0.44
1:A1:29:VAL:HG23	1:A1:41:LEU:O	2.18	0.44
5:A5:77:ILE:C	5:A5:81:ILE:HD12	2.34	0.44
5:A5:38:ARG:CZ	10:AA:1751:U:H5	2.26	0.44
10:BA:74:A:C2	34:BY:182:LEU:HD23	2.53	0.44
9:B9:148:UNK:O	9:B9:151:UNK:HG3	2.17	0.44
6:B6:46:SER:O	6:B6:69:VAL:HG23	2.18	0.44
6:B6:44:ILE:HG21	6:B6:52:ILE:CD1	2.47	0.44
6:B6:34:LYS:CB	6:B6:76:ALA:HB3	2.47	0.44
10:AA:1198:A:N3	10:AA:1228:A:H2	2.15	0.44
10:AA:666:A:H2'	10:AA:667:C:C6	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:B8:79:LEU:O	8:B8:83:LEU:HG	2.18	0.44
16:BG:117:ARG:HE	16:BG:189:LYS:NZ	2.15	0.44
12:BC:19:VAL:HG11	23:BN:21:ARG:NE	2.32	0.44
9:A9:148:UNK:HA	9:A9:151:UNK:CG	2.48	0.44
2:B2:17:ARG:HG2	2:B2:18:MET:H	1.83	0.44
9:A9:150:UNK:O	9:A9:154:UNK:HG3	2.18	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
17:BH:68:ARG:CD	17:BH:68:ARG:O	2.66	0.44
7:B7:9:LYS:CG	7:B7:13:TYR:HE1	2.30	0.44
10:BA:1199:G:HO2'	10:BA:1200:G:P	2.41	0.44
27:AR:75:HIS:HD1	27:AR:95:SER:HB2	1.83	0.44
6:B6:9:ILE:HD12	6:B6:12:GLU:CG	2.48	0.44
3:A3:144:ARG:HH22	35:AZ:3:SER:CB	2.14	0.44
10:BA:317:G:N2	10:BA:334:C:H1'	2.33	0.44
26:BQ:15:VAL:O	26:BQ:15:VAL:HG12	2.17	0.44
4:B4:186:GLY:O	4:B4:189:GLU:N	2.50	0.44
10:AA:297:U:O2'	10:AA:298:G:H5'	2.17	0.44
26:AQ:18:ASN:O	26:AQ:21:LYS:HB2	2.18	0.44
32:BW:244:ASP:O	32:BW:246:VAL:N	2.50	0.44
32:AW:188:GLY:C	32:AW:190:ASN:N	2.70	0.44
10:AA:384:C:O2'	10:AA:385:C:H5'	2.18	0.44
32:AW:124:LYS:HE2	32:AW:126:LEU:HD23	2.00	0.44
32:AW:144:HIS:C	32:AW:146:SER:N	2.70	0.44
10:AA:454:C:H2'	10:AA:455:C:H5''	1.95	0.44
26:BQ:66:ARG:O	26:BQ:126:GLN:CG	2.65	0.44
32:AW:101:PHE:CD2	32:AW:113:LEU:HB3	2.53	0.44
34:BY:76:LEU:C	34:BY:77:LEU:HD23	2.38	0.44
10:AA:733:G:H8	10:AA:733:G:O5'	2.01	0.44
10:AA:782:A:C3'	10:AA:782:A:C8	3.00	0.44
10:AA:787:A:N9	17:AH:106:THR:O	2.51	0.44
10:BA:1319:U:O4'	10:BA:1489:U:O2	2.35	0.44
10:BA:1040:C:C2'	10:BA:1041:A:H5'	2.48	0.44
9:B9:86:THR:CG2	9:B9:87:LYS:H	2.25	0.44
3:B3:50:ILE:HB	3:B3:58:LYS:O	2.18	0.44
27:AR:209:PHE:HD2	27:AR:240:TRP:CH2	2.36	0.44
34:AY:8:PRO:HB2	34:AY:9:LEU:H	1.58	0.44
29:AT:108:LEU:HD22	29:AT:117:ILE:HD13	2.00	0.44
32:BW:177:LEU:H	32:BW:177:LEU:CD2	2.30	0.44
3:B3:14:LYS:HA	3:B3:17:GLU:OE1	2.17	0.44
12:BC:175:VAL:CG2	12:BC:188:LYS:HG2	2.48	0.44
7:B7:54:PHE:HB3	7:B7:72:GLY:CA	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BS:85:TYR:N	28:BS:85:TYR:CD1	2.85	0.44
33:BX:31:PRO:CG	33:BX:39:ILE:HD11	2.47	0.44
10:BA:559:C:C2'	10:BA:559:C:O2	2.65	0.44
10:BA:1621:G:C4	10:BA:1705:A:C2	3.05	0.44
10:AA:554:U:H2'	10:AA:555:G:H8	1.83	0.44
27:BR:84:LEU:HD22	27:BR:91:ALA:HB2	1.99	0.44
27:AR:24:VAL:HG23	27:AR:331:GLY:HA2	2.00	0.44
10:BA:350:A:H5''	10:BA:351:A:H5'	1.98	0.44
21:AL:131:LEU:HA	21:AL:131:LEU:HD23	1.90	0.44
18:AI:40:MET:CE	29:AT:14:ALA:HA	2.48	0.44
17:AH:83:LEU:HD11	17:AH:120:HIS:C	2.39	0.44
25:BP:43:ALA:HB1	25:BP:48:VAL:O	2.17	0.44
34:BY:127:VAL:HG12	34:BY:128:THR:N	2.33	0.44
2:B2:161:LYS:O	2:B2:165:GLU:HG3	2.18	0.44
13:BD:47:MET:O	13:BD:50:ALA:HB3	2.18	0.44
10:BA:742:U:O2'	10:BA:743:U:H5'	2.18	0.44
3:B3:181:GLU:HG2	3:B3:181:GLU:H	1.40	0.44
6:A6:63:LYS:HG2	6:A6:72:GLN:NE2	2.33	0.44
10:AA:926:G:C6	10:AA:927:C:C4	3.06	0.44
10:BA:276:U:H2'	10:BA:277:C:C6	2.53	0.44
10:AA:359:U:O2'	10:AA:360:U:H5'	2.18	0.43
10:BA:604:G:H1'	10:BA:607:G:O2'	2.18	0.43
13:BD:15:PRO:CG	13:BD:23:ARG:HH12	2.31	0.43
17:BH:79:TYR:N	17:BH:79:TYR:CD1	2.82	0.43
10:AA:533:G:H8	10:AA:533:G:H3'	1.82	0.43
8:A8:45:ILE:HD12	22:AM:1:MET:CE	2.48	0.43
22:AM:25:LYS:NZ	22:AM:57:ARG:HB3	2.33	0.43
10:AA:280:U:O2'	10:AA:281:A:H5'	2.18	0.43
10:AA:72:G:C2	10:AA:76:A:N3	2.86	0.43
25:AP:10:ILE:HA	25:AP:20:GLN:O	2.18	0.43
18:BI:41:ILE:HD13	18:BI:50:ILE:HD12	1.99	0.43
18:BI:17:ASN:H	18:BI:125:ARG:HH12	1.61	0.43
1:A1:61:GLU:HG3	20:AK:121:ARG:NH1	2.32	0.43
14:BE:224:ARG:CD	35:BZ:40:PHE:CZ	2.98	0.43
10:AA:1717:C:C5'	10:AA:1717:C:H6	2.19	0.43
10:BA:1279:U:H2'	10:BA:1280:G:C5'	2.48	0.43
6:B6:45:PHE:CD2	24:BO:57:ARG:CD	3.00	0.43
10:BA:842:U:H5'	10:BA:842:U:H6	1.83	0.43
17:BH:7:LEU:HG	17:BH:11:LEU:HD12	2.00	0.43
10:AA:1203:U:O4	10:AA:1227:G:N2	2.51	0.43
24:AO:90:LEU:HD21	24:AO:141:TRP:HE1	1.83	0.43
9:B9:72:LYS:N	10:BA:1160:G:OP1	2.50	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:BN:39:ARG:NH1	23:BN:39:ARG:HG2	2.33	0.43
34:BY:5:ILE:CD1	34:BY:111:LEU:HD12	2.43	0.43
10:AA:880:G:OP2	20:AK:38:ASN:ND2	2.48	0.43
14:AE:232:GLY:C	35:AZ:13:MET:HB2	2.38	0.43
11:AB:189:GLU:HG3	11:AB:190:GLU:N	2.33	0.43
10:AA:1426:G:H2'	10:AA:1427:C:O4'	2.18	0.43
10:AA:1425:G:H4'	28:AS:127:THR:CG2	2.48	0.43
10:AA:407:A:C4'	10:AA:408:C:OP2	2.49	0.43
30:BU:83:LEU:HD13	30:BU:85:HIS:NE2	2.33	0.43
27:AR:46:SER:OG	27:AR:47:ARG:N	2.51	0.43
4:A4:31:TRP:C	4:A4:32:TYR:CD1	2.91	0.43
27:BR:77:HIS:CG	27:BR:78:PHE:N	2.86	0.43
10:BA:312:C:O2'	10:BA:313:G:P	2.76	0.43
26:BQ:4:GLN:NE2	26:BQ:10:GLN:OE1	2.51	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:AA:1470:C:OP2	29:AT:76:ILE:HG13	2.18	0.43
18:AI:31:LEU:HD23	18:AI:31:LEU:HA	1.65	0.43
2:A2:114:SER:HA	2:A2:172:ILE:HD11	2.00	0.43
27:BR:239:ILE:HD11	27:BR:270:VAL:HG21	2.00	0.43
2:B2:22:ARG:HD2	2:B2:25:ARG:NH1	2.33	0.43
31:BV:35:LEU:HD22	31:BV:47:ARG:HG2	2.00	0.43
11:BB:14:LEU:HD13	11:BB:19:HIS:CE1	2.53	0.43
34:BY:87:ARG:O	34:BY:88:ARG:CB	2.65	0.43
10:AA:397:U:H4'	34:AY:76:LEU:HD21	2.00	0.43
3:B3:62:LEU:HD11	3:B3:64:TYR:HE1	1.83	0.43
13:BD:123:HIS:CE1	33:BX:34:ARG:HD3	2.52	0.43
10:BA:224:G:O2'	10:BA:225:C:H5''	2.17	0.43
18:BI:24:VAL:HG13	18:BI:67:ILE:CG1	2.48	0.43
10:AA:1031:A:H2'	10:AA:1032:U:O4'	2.18	0.43
10:BA:1667:U:H2'	10:BA:1668:U:O4'	2.17	0.43
7:A7:9:LYS:HG2	7:A7:13:TYR:CE1	2.52	0.43
28:AS:98:ILE:HG22	28:AS:111:GLU:HG2	1.99	0.43
26:BQ:35:LYS:CG	26:BQ:36:ASN:H	2.27	0.43
2:B2:149:LYS:O	2:B2:153:ARG:HB2	2.18	0.43
10:AA:243:G:C6	10:AA:244:A:C6	3.06	0.43
32:AW:222:THR:CG2	32:AW:223:ARG:N	2.80	0.43
29:AT:9:THR:CG2	29:AT:10:VAL:H	2.29	0.43
29:BT:108:LEU:HD22	29:BT:117:ILE:HD13	2.00	0.43
6:B6:39:GLN:O	6:B6:40:ASN:C	2.57	0.43
18:AI:120:VAL:CG1	18:AI:121:ALA:H	2.30	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:BK:98:ARG:O	20:BK:99:ALA:HB2	2.17	0.43
2:A2:65:ALA:HB3	2:A2:180:PRO:CB	2.48	0.43
22:BM:107:THR:O	22:BM:111:GLU:HG3	2.18	0.43
32:BW:213:LYS:HA	32:BW:218:ASN:O	2.18	0.43
32:AW:215:ALA:C	32:AW:217:GLY:N	2.72	0.43
7:A7:25:LYS:HG3	7:A7:27:ASP:H	1.83	0.43
29:BT:29:ALA:HB1	29:BT:31:LYS:HE3	2.00	0.43
10:BA:463:A:O2'	10:BA:464:G:H5'	2.17	0.43
11:BB:121:THR:HG22	11:BB:143:LEU:HD12	1.99	0.43
29:AT:82:ILE:HG22	29:AT:82:ILE:O	2.16	0.43
34:AY:127:VAL:HG12	34:AY:128:THR:N	2.33	0.43
2:A2:185:ARG:NH1	10:AA:203:U:H1'	2.33	0.43
12:BC:222:THR:HG22	12:BC:223:ASP:N	2.32	0.43
5:B5:56:LYS:HG3	20:BK:120:ALA:O	2.18	0.43
4:B4:197:GLU:O	4:B4:201:LYS:HG3	2.18	0.43
10:AA:658:C:C2	10:AA:659:G:C8	3.06	0.43
13:BD:15:PRO:CG	13:BD:23:ARG:NH1	2.80	0.43
14:BE:145:TRP:HZ3	14:BE:174:PRO:CB	2.29	0.43
26:BQ:97:ASN:ND2	26:BQ:97:ASN:O	2.51	0.43
8:A8:66:VAL:HG11	10:AA:1506:G:C6	2.52	0.43
22:AM:61:LEU:HD22	22:AM:65:GLN:HE21	1.81	0.43
10:AA:134:C:O2	10:AA:134:C:H2'	2.19	0.43
10:AA:65:C:O2'	10:AA:66:A:OP1	2.28	0.43
10:AA:761:U:C6	25:AP:7:THR:O	2.71	0.43
10:BA:763:U:H4'	10:BA:764:U:OP2	2.16	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
16:BG:138:PRO:HG2	16:BG:139:MET:H	1.84	0.43
18:AI:42:ASN:CB	18:AI:43:PRO:HD3	2.41	0.43
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
10:AA:909:C:OP1	10:AA:1752:U:C5	2.71	0.43
10:BA:45:A:H61	10:BA:425:A:H4'	1.78	0.43
10:BA:264:U:H2'	10:BA:264:U:O2	2.18	0.43
10:BA:64:U:O2'	10:BA:65:C:O5'	2.30	0.43
10:AA:1212:U:N3	10:AA:1215:G:OP1	2.44	0.43
10:AA:1413:C:H4'	10:AA:1418:C:H41	1.84	0.43
9:B9:158:UNK:HA	9:B9:161:UNK:HG3	1.99	0.43
10:AA:1227:G:C2'	10:AA:1228:A:OP2	2.66	0.43
26:BQ:73:LEU:HD12	26:BQ:120:ASP:O	2.18	0.43
8:B8:72:LYS:C	8:B8:73:LEU:HD23	2.39	0.43
22:BM:18:LEU:CD2	22:BM:70:THR:HG23	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:834:A:H4'	10:BA:835:U:OP1	2.18	0.43
10:AA:876:A:O2'	10:AA:877:G:OP2	2.32	0.43
7:B7:61:TRP:HE1	12:BC:26:SER:HB2	1.82	0.43
9:A9:148:UNK:HA	9:A9:151:UNK:HG3	2.00	0.43
17:AH:46:TYR:C	17:AH:66:ILE:HD12	2.37	0.43
10:AA:1109:U:OP1	21:AL:61:LYS:HE3	2.18	0.43
20:BK:27:VAL:HG11	20:BK:90:ILE:HG12	1.99	0.43
10:BA:948:A:C2'	10:BA:949:A:C5'	2.92	0.43
7:B7:11:ARG:CD	7:B7:15:GLN:HE21	2.31	0.43
3:B3:130:LEU:O	3:B3:132:LEU:N	2.52	0.43
35:AZ:1:MET:O	35:AZ:2:ASN:C	2.56	0.43
10:BA:1313:G:H4'	27:BR:101:ARG:NH2	2.34	0.43
10:BA:679:U:O2'	10:BA:680:U:H5'	2.18	0.43
10:BA:341:G:H5''	10:BA:342:U:O3'	2.18	0.43
10:AA:682:C:H2'	10:AA:683:A:C8	2.54	0.43
10:BA:905:C:H1'	20:BK:138:ASP:HB2	2.00	0.43
16:BG:99:THR:O	16:BG:99:THR:CG2	2.65	0.43
10:BA:237:U:C4	10:BA:238:G:H1'	2.53	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
10:BA:1469:U:OP1	29:BT:75:GLY:CA	2.65	0.43
10:BA:751:U:C5	10:BA:752:C:C4	3.06	0.43
2:A2:12:ARG:HG3	2:A2:13:ALA:N	2.33	0.43
26:AQ:4:GLN:CD	26:AQ:10:GLN:OE1	2.56	0.43
27:BR:240:TRP:N	27:BR:240:TRP:CD1	2.86	0.43
2:B2:87:LEU:CD2	2:B2:171:ARG:NH1	2.74	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
10:AA:455:C:H2'	10:AA:456:A:O4'	2.19	0.43
32:AW:44:LEU:O	32:AW:45:SER:C	2.56	0.43
14:AE:27:TRP:HD1	14:AE:38:LYS:HD3	1.84	0.43
15:BF:34:THR:HG23	15:BF:70:VAL:CG1	2.47	0.43
18:AI:11:THR:HG22	18:AI:22:ALA:HB3	2.00	0.43
21:BL:75:LEU:HD12	21:BL:78:ASN:HD22	1.83	0.43
34:AY:62:PRO:O	34:AY:97:VAL:HG13	2.18	0.43
35:AZ:34:TRP:CE3	35:AZ:34:TRP:C	2.90	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:1033:A:C2	10:AA:1034:A:N3	2.86	0.43
2:B2:174:ALA:HB1	2:B2:189:TYR:O	2.17	0.43
2:B2:36:THR:N	2:B2:103:THR:HG23	2.29	0.43
35:BZ:82:ALA:O	35:BZ:86:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1148:G:H5''	38:BA:2373:HOH:O	2.18	0.43
10:BA:1089:U:O2'	10:BA:1090:G:OP1	2.28	0.43
32:AW:46:VAL:HA	32:AW:50:GLU:OE1	2.19	0.43
12:AC:45:THR:HG23	12:AC:46:PRO:HD2	2.00	0.43
24:AO:49:PRO:HG3	24:AO:74:LEU:CD2	2.43	0.43
2:B2:65:ALA:C	2:B2:66:LEU:HD23	2.39	0.43
1:A1:50:ARG:N	1:A1:53:ASP:OD2	2.50	0.43
10:BA:285:C:H2'	10:BA:286:A:O4'	2.18	0.43
3:A3:193:HIS:ND1	6:A6:29:TYR:HB3	2.32	0.43
32:BW:6:LYS:HB2	32:BW:30:ARG:HH12	1.82	0.43
26:AQ:3:THR:HG21	26:AQ:51:THR:C	2.38	0.43
22:AM:123:ARG:HG2	22:AM:123:ARG:NH1	2.32	0.43
10:BA:41:U:H4'	10:BA:42:A:O5'	2.18	0.43
32:BW:18:TRP:O	32:BW:19:MET:C	2.57	0.43
27:BR:192:TRP:O	27:BR:215:ASN:HA	2.18	0.43
24:BO:108:ARG:O	24:BO:108:ARG:HG2	2.18	0.43
32:AW:258:PHE:N	32:AW:258:PHE:CD1	2.86	0.43
10:AA:520:A:C5	10:AA:521:U:C5	3.06	0.43
10:AA:1:A:C2'	14:AE:180:VAL:CG1	2.92	0.43
10:AA:604:G:N2	21:AL:19:ARG:NH2	2.60	0.43
10:BA:359:U:H2'	10:BA:360:U:C5'	2.47	0.43
10:BA:3:C:H41	13:BD:16:ARG:CB	2.31	0.43
26:BQ:97:ASN:C	26:BQ:98:ARG:HG2	2.37	0.43
8:A8:41:HIS:HA	8:A8:74:LYS:O	2.18	0.43
22:BM:81:ILE:HG12	29:BT:40:TRP:HH2	1.84	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
22:AM:81:ILE:N	29:AT:40:TRP:HZ2	2.15	0.43
22:AM:41:ARG:NH2	29:AT:41:THR:O	2.52	0.43
4:A4:174:ILE:HG22	4:A4:175:ASN:HD22	1.82	0.43
5:B5:8:ALA:CB	10:BA:1744:U:C5'	2.96	0.43
6:A6:30:PHE:CZ	24:AO:63:PRO:HB3	2.53	0.43
20:AK:150:ARG:O	20:AK:151:LEU:HB3	2.18	0.43
31:BV:64:GLY:N	31:BV:65:PRO:HD2	2.33	0.43
10:BA:262:G:C2	10:BA:264:U:O4	2.71	0.43
10:BA:444:A:O2'	10:BA:445:U:P	2.76	0.43
10:BA:882:G:O6	10:BA:883:A:N1	2.52	0.43
10:AA:1366:G:H2'	10:AA:1367:C:O4'	2.18	0.43
17:BH:14:LEU:HD23	17:BH:72:CYS:SG	2.58	0.43
10:BA:1426:G:H2'	10:BA:1427:C:O4'	2.19	0.43
19:BJ:64:THR:HG22	19:BJ:77:TRP:CE3	2.50	0.43
1:B1:39:ARG:HD3	1:B1:41:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AP:2:THR:HG22	25:AP:3:ILE:CD1	2.48	0.43
3:A3:133:PRO:HG2	3:A3:162:PHE:CE2	2.54	0.43
10:AA:1157:U:HO2'	10:AA:1158:U:P	2.37	0.43
10:BA:1202:A:N6	10:BA:1227:G:H1'	2.33	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
30:BU:29:LEU:O	30:BU:33:LEU:HG	2.17	0.43
10:AA:391:A:H5'	10:AA:392:A:C5'	2.41	0.43
10:AA:1313:G:OP1	27:AR:73:THR:HB	2.18	0.43
27:AR:243:LEU:O	27:AR:245:LEU:HG	2.19	0.43
3:B3:127:LEU:HD13	3:B3:153:ILE:CD1	2.48	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
10:AA:718:A:C3'	10:AA:719:G:H5'	2.48	0.43
10:AA:230:A:H2'	10:AA:231:U:O4'	2.18	0.43
10:BA:1293:A:O2'	10:BA:1294:A:OP2	2.31	0.43
33:BX:7:THR:HG22	33:BX:8:LEU:N	2.33	0.43
10:AA:306:A:N6	10:AA:343:C:O2	2.50	0.43
31:BV:41:VAL:HG11	31:BV:47:ARG:CB	2.48	0.43
10:AA:706:U:O2'	10:AA:707:U:H5'	2.18	0.43
32:BW:97:THR:O	32:BW:97:THR:HG22	2.17	0.43
10:AA:388:A:C2'	10:AA:389:G:H5'	2.47	0.43
4:B4:194:LEU:HD12	4:B4:194:LEU:HA	1.78	0.43
10:AA:1277:U:C2'	10:AA:1277:U:O2	2.67	0.43
10:AA:1279:U:H2'	10:AA:1280:G:C5'	2.47	0.43
34:BY:69:VAL:O	34:BY:99:GLY:HA3	2.18	0.43
31:BV:103:LYS:HD2	31:BV:118:VAL:HG21	1.98	0.43
10:BA:733:G:H8	10:BA:733:G:O5'	2.01	0.43
3:A3:84:LEU:HA	3:A3:84:LEU:HD23	1.70	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
27:AR:225:GLY:O	27:AR:242:ILE:CD1	2.61	0.43
10:AA:1299:C:O2'	12:AC:162:CYS:CB	2.66	0.43
10:BA:223:C:H2'	10:BA:224:G:H8	1.82	0.43
10:BA:1660:A:N6	10:BA:1666:G:C6	2.86	0.43
10:AA:898:U:H2'	10:AA:899:U:O4'	2.18	0.43
10:AA:1033:A:H2'	10:AA:1034:A:O4'	2.18	0.43
8:B8:29:LYS:NZ	10:BA:1509:U:C5'	2.81	0.43
25:BP:70:PHE:CD1	25:BP:70:PHE:N	2.87	0.43
2:B2:37:LYS:HE2	2:B2:101:THR:HG22	2.00	0.43
10:BA:482:A:H2'	10:BA:483:C:C6	2.53	0.43
10:BA:1064:A:O2'	10:BA:1065:A:O5'	2.36	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BO:4:MET:HG3	24:BO:11:LYS:HA	1.99	0.43
12:BC:56:THR:HA	12:BC:94:ILE:HB	2.01	0.43
10:BA:243:G:H1'	32:BW:204:GLN:NE2	2.32	0.43
29:BT:9:THR:CG2	29:BT:69:TYR:OH	2.66	0.43
10:BA:504:A:H5'	13:BD:171:ARG:HG2	2.00	0.43
10:AA:272:U:H2'	10:AA:273:A:H5''	1.99	0.43
30:AU:58:LEU:O	30:AU:61:ALA:HB3	2.19	0.43
11:BB:195:VAL:HG12	11:BB:199:TYR:HE1	1.83	0.43
10:AA:972:G:C2'	10:AA:973:A:H5'	2.48	0.43
26:AQ:43:THR:HA	26:AQ:44:PRO:HD2	1.81	0.43
11:AB:179:LYS:HE3	11:AB:191:TRP:CH2	2.53	0.43
10:AA:1692:C:O2'	10:AA:1693:A:H5'	2.18	0.43
10:AA:507:G:H2'	10:AA:508:A:O4'	2.18	0.43
6:B6:37:GLN:O	6:B6:39:GLN:HG2	2.19	0.43
6:A6:54:CYS:HB2	6:A6:61:LEU:HD21	2.00	0.43
10:AA:1040:C:C2'	10:AA:1041:A:H5'	2.49	0.43
25:BP:119:ALA:C	25:BP:123:LEU:HD13	2.39	0.43
12:AC:175:VAL:CG2	12:AC:188:LYS:HG2	2.49	0.43
12:BC:24:LEU:HD22	12:BC:28:PHE:HE2	1.84	0.43
1:A1:8:LYS:HG2	1:A1:56:GLU:OE2	2.18	0.43
10:BA:597:U:H2'	10:BA:598:A:C8	2.52	0.43
8:B8:44:PHE:O	8:B8:44:PHE:CD1	2.70	0.43
4:A4:217:THR:HG22	4:A4:218:ILE:H	1.82	0.43
14:BE:213:LYS:O	14:BE:217:TYR:HD1	2.01	0.43
35:AZ:14:THR:O	35:AZ:14:THR:HG22	2.18	0.43
3:B3:22:ALA:O	3:B3:25:GLU:HB2	2.18	0.43
10:BA:120:A:O2'	10:BA:121:U:H5'	2.17	0.43
10:AA:744:A:H8	10:AA:744:A:O5'	2.01	0.43
14:BE:162:LYS:H	14:BE:162:LYS:HD2	1.82	0.43
10:AA:857:G:H4'	24:AO:110:ASP:HA	2.01	0.43
11:AB:159:CYS:SG	11:AB:170:ILE:HD12	2.58	0.43
14:AE:90:GLN:OE1	14:AE:95:GLN:HG2	2.18	0.43
14:AE:167:ARG:O	14:AE:201:SER:HA	2.18	0.43
14:BE:184:ILE:HG22	14:BE:212:LEU:CD2	2.49	0.43
10:BA:603:U:O2	21:BL:23:ARG:HA	2.19	0.43
18:AI:16:LYS:O	18:AI:16:LYS:HG3	2.19	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:761:U:O2'	10:AA:762:U:P	2.77	0.43
10:AA:837:A:O2'	10:AA:838:U:OP2	2.35	0.43
10:AA:932:G:H5''	24:AO:7:LYS:NZ	2.33	0.43
18:BI:14:ARG:H	18:BI:85:GLN:NE2	2.16	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AI:41:ILE:HD13	18:AI:50:ILE:HD12	1.98	0.43
10:BA:280:U:O2'	10:BA:281:A:H5'	2.18	0.43
6:B6:28:SER:HB2	6:B6:45:PHE:CE1	2.53	0.43
17:BH:30:VAL:CG1	17:BH:31:SER:N	2.81	0.43
24:AO:137:LEU:HD12	24:AO:138:PRO:CD	2.40	0.43
10:BA:1246:C:HO2'	10:BA:1247:A:H5''	1.84	0.43
10:BA:1521:C:C2	10:BA:1535:A:C2	3.07	0.43
10:AA:1531:G:C8	22:AM:134:ARG:HB2	2.54	0.43
15:BF:44:TYR:O	15:BF:47:ILE:N	2.51	0.43
25:AP:3:ILE:HD13	25:AP:37:LYS:HZ3	1.83	0.43
10:BA:1487:A:OP2	12:BC:10:LYS:HD3	2.18	0.43
12:BC:9:ASN:O	12:BC:11:LYS:N	2.51	0.43
1:B1:12:MET:HE2	1:B1:30:VAL:HG22	1.99	0.43
10:AA:948:A:C5	10:AA:949:A:C8	3.07	0.43
20:AK:95:ILE:HD11	20:AK:126:ILE:HG23	1.99	0.43
27:AR:264:ASN:C	27:AR:266:LYS:H	2.20	0.43
28:AS:15:GLY:CA	28:AS:114:PHE:HE2	2.31	0.43
10:AA:675:A:H4'	10:AA:676:C:OP2	2.14	0.43
10:BA:188:G:C5	10:BA:190:G:H1'	2.54	0.43
2:A2:173:LEU:HB3	2:A2:191:LEU:CD1	2.45	0.43
32:BW:42:LEU:HD11	32:BW:47:LEU:N	2.34	0.43
22:AM:50:LEU:O	22:AM:52:ILE:HG13	2.19	0.43
20:BK:62:VAL:CG1	20:BK:63:LYS:N	2.73	0.43
10:BA:864:U:C2'	10:BA:865:A:H5'	2.48	0.43
10:AA:111:G:H8	10:AA:111:G:OP2	2.01	0.43
34:BY:141:ILE:HG21	34:BY:156:ILE:CG2	2.47	0.43
24:AO:32:PRO:O	24:AO:36:VAL:HG23	2.19	0.43
10:AA:1012:C:H2'	10:AA:1013:G:H5'	1.99	0.43
10:AA:482:A:H2'	10:AA:483:C:C6	2.54	0.43
27:BR:89:CYS:O	27:BR:90:PHE:HD1	2.00	0.43
10:BA:1016:U:H3	10:BA:1064:A:H61	1.65	0.43
10:BA:272:U:H2'	10:BA:273:A:H5''	2.00	0.43
22:AM:126:ARG:HG2	22:AM:133:VAL:HA	2.00	0.43
10:BA:804:A:O2'	10:BA:805:G:H5'	2.18	0.43
15:BF:75:GLY:HA3	15:BF:77:HIS:NE2	2.33	0.43
20:BK:99:ALA:O	20:BK:101:GLY:N	2.52	0.43
2:A2:65:ALA:C	2:A2:66:LEU:HD23	2.39	0.43
30:BU:73:VAL:HG12	30:BU:74:PRO:HD2	2.01	0.43
19:AJ:37:GLU:C	19:AJ:104:PHE:HZ	2.22	0.43
19:BJ:23:LEU:CD2	19:BJ:112:ILE:HG12	2.46	0.43
32:AW:157:LYS:O	32:AW:160:ASP:OD2	2.36	0.43
19:AJ:45:THR:HB	19:AJ:48:VAL:HG21	1.99	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:A3:39:SER:OG	3:A3:72:VAL:HG21	2.18	0.43
10:BA:1435:G:C2	10:BA:1436:C:C5	3.07	0.43
7:B7:73:CYS:O	7:B7:77:LYS:HG3	2.19	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
1:A1:35:LYS:HD3	1:A1:35:LYS:HA	1.89	0.43
14:BE:174:PRO:HD3	14:BE:198:TYR:HE1	1.83	0.43
22:BM:41:ARG:HG2	22:BM:41:ARG:O	2.19	0.43
10:BA:1609:C:H3'	10:BA:1610:G:H5'	2.00	0.43
5:B5:38:ARG:NH2	10:BA:1751:U:H5	2.16	0.43
10:BA:1263:G:H2'	10:BA:1264:G:C8	2.53	0.43
10:AA:1214:A:O2'	10:AA:1216:A:OP2	2.30	0.43
13:AD:136:VAL:HA	13:AD:155:SER:O	2.18	0.43
10:AA:1366:G:N2	10:AA:1374:C:H1'	2.34	0.43
10:BA:838:U:H2'	10:BA:838:U:O2	2.18	0.43
24:AO:90:LEU:HG	24:AO:94:ILE:HD11	2.01	0.43
10:BA:1154:U:C3'	10:BA:1155:A:H5''	2.49	0.43
10:BA:796:U:O5'	10:BA:796:U:H6	2.01	0.43
10:BA:666:A:H2'	10:BA:667:C:C6	2.53	0.43
12:BC:15:VAL:CG1	12:BC:16:ALA:N	2.82	0.43
10:BA:931:A:P	24:BO:96:LYS:NZ	2.92	0.43
11:AB:169:MET:HE2	11:AB:169:MET:HB3	1.88	0.43
30:AU:70:TYR:HD2	30:AU:126:ALA:C	2.22	0.43
10:AA:624:A:C8	10:AA:948:A:N6	2.86	0.43
10:BA:945:A:O5'	10:BA:945:A:H8	2.01	0.43
10:BA:948:A:H2'	10:BA:949:A:O4'	2.18	0.43
10:BA:1223:U:HO2'	10:BA:1224:C:C5'	2.31	0.43
2:A2:26:ALA:O	2:A2:29:LYS:HG2	2.19	0.43
3:B3:132:LEU:O	3:B3:134:SER:N	2.52	0.43
27:BR:153:PHE:CD2	27:BR:203:PHE:CD2	3.06	0.43
27:AR:282:ASN:OD1	27:AR:284:MET:CG	2.58	0.43
2:B2:109:ILE:HG22	2:B2:191:LEU:HD11	1.99	0.43
2:B2:192:GLU:C	2:B2:196:LEU:HB2	2.39	0.43
10:AA:683:A:O2'	10:AA:684:A:H5'	2.19	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
8:B8:96:VAL:HG11	16:BG:93:GLU:HB3	1.99	0.43
28:AS:55:SER:HB2	28:AS:58:TYR:CE2	2.52	0.43
2:A2:192:GLU:CB	26:AQ:19:SER:HB3	2.49	0.43
31:BV:46:LEU:CD2	31:BV:50:ILE:HD11	2.49	0.43
31:BV:47:ARG:C	31:BV:47:ARG:CD	2.86	0.43
2:B2:198:PHE:CE1	26:BQ:5:ILE:HG12	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:AW:244:ASP:O	32:AW:246:VAL:N	2.52	0.43
32:BW:61:VAL:O	32:BW:63:LEU:N	2.52	0.43
32:AW:124:LYS:NZ	32:AW:145:ASP:OD2	2.46	0.43
6:B6:68:LYS:HB3	10:BA:1027:U:OP1	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
27:AR:326:ALA:HB1	27:AR:328:PHE:HE1	1.82	0.43
10:BA:538:A:O2'	10:BA:539:U:O5'	2.36	0.43
10:AA:781:C:O2	10:AA:781:C:C2'	2.65	0.43
6:B6:65:THR:CG2	6:B6:66:GLY:H	2.21	0.43
17:BH:87:GLU:CD	17:BH:87:GLU:N	2.60	0.43
25:BP:84:GLU:HA	25:BP:85:PRO:HD3	1.79	0.43
17:AH:87:GLU:N	17:AH:87:GLU:CD	2.61	0.43
5:A5:10:ARG:HH11	5:A5:12:GLN:HE21	1.67	0.43
34:AY:7:TYR:CZ	34:AY:9:LEU:HD12	2.54	0.43
8:A8:29:LYS:HZ3	10:AA:1509:U:C5'	2.31	0.43
2:A2:126:GLY:O	2:A2:136:THR:HG23	2.17	0.43
10:AA:1188:A:C4	10:AA:1415:A:C2	3.06	0.43
24:BO:144:ASN:OD1	24:BO:145:ALA:N	2.52	0.43
10:BA:1493:A:H2'	10:BA:1494:U:OP2	2.19	0.43
27:BR:100:LEU:N	27:BR:100:LEU:HD12	2.33	0.43
11:AB:75:ARG:O	11:AB:79:GLN:HG2	2.18	0.43
27:AR:43:ILE:HA	27:AR:52:MET:O	2.18	0.43
27:BR:212:HIS:CD2	27:BR:212:HIS:N	2.86	0.43
7:A7:51:ASP:HB3	10:AA:1192:C:H5''	2.00	0.43
18:BI:107:ILE:HG13	18:BI:107:ILE:H	1.66	0.43
12:BC:145:LEU:O	12:BC:146:LYS:HG2	2.18	0.43
16:BG:178:ASN:HA	16:BG:186:ILE:CD1	2.48	0.43
24:AO:50:SER:O	24:AO:54:VAL:HG23	2.18	0.43
4:A4:97:ARG:HD2	4:A4:97:ARG:HA	1.87	0.43
10:AA:219:C:H2'	10:AA:220:A:H8	1.84	0.43
21:AL:135:PHE:CE1	33:AX:15:ARG:NH1	2.86	0.43
2:B2:3:ILE:O	2:B2:30:GLY:HA3	2.18	0.43
30:BU:48:GLU:OE2	30:BU:72:SER:HB2	2.18	0.43
4:B4:40:PHE:CD1	4:B4:40:PHE:N	2.86	0.43
27:AR:76:ASN:OD1	27:AR:76:ASN:O	2.36	0.43
32:AW:176:HIS:H	32:AW:176:HIS:CD2	2.36	0.43
14:AE:85:THR:HA	14:AE:86:PRO:HD3	1.78	0.43
10:AA:1092:U:O2'	10:AA:1093:A:N7	2.48	0.43
10:AA:276:U:H2'	10:AA:277:C:C6	2.53	0.43
10:AA:17:C:H2'	10:AA:18:C:C6	2.54	0.43
14:AE:184:ILE:HD13	14:AE:208:ARG:HG3	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:AT:45:VAL:HG21	29:AT:83:PHE:CZ	2.54	0.43
6:A6:68:LYS:CG	10:AA:1027:U:OP1	2.67	0.43
10:AA:842:U:C6	10:AA:842:U:C3'	3.01	0.43
10:AA:46:A:N3	10:AA:417:A:N6	2.67	0.43
18:AI:4:GLN:O	18:AI:5:LYS:CB	2.63	0.43
10:BA:1560:G:O2'	10:BA:1561:U:H5'	2.18	0.43
27:BR:233:LYS:NZ	31:BV:24:LEU:O	2.43	0.43
10:BA:424:A:C4	10:BA:425:A:C8	3.07	0.43
10:BA:46:A:H4'	10:BA:47:C:C5'	2.48	0.43
10:BA:888:C:C6	10:BA:888:C:H5'	2.53	0.43
10:AA:1362:U:H2'	10:AA:1363:U:C6	2.53	0.43
6:B6:32:ASP:HB3	6:B6:41:ILE:HG23	2.00	0.43
10:AA:670:G:H2'	10:AA:671:A:O4'	2.18	0.43
10:BA:1430:C:O2'	10:BA:1431:A:O5'	2.36	0.43
12:AC:35:ALA:CB	12:AC:57:LYS:HB2	2.48	0.43
10:AA:633:U:O2'	10:AA:634:C:P	2.77	0.43
10:AA:834:A:H4'	10:AA:835:U:OP1	2.18	0.43
27:AR:241:ASP:HB2	27:AR:249:GLN:NE2	2.34	0.43
26:AQ:75:ILE:HG22	26:AQ:76:SER:N	2.34	0.43
2:B2:105:VAL:H	2:B2:108:SER:HG	1.66	0.43
10:BA:306:A:C1'	10:BA:344:A:H61	2.32	0.43
30:AU:79:LEU:HD22	30:AU:103:LEU:CD1	2.35	0.43
10:AA:679:U:O2'	10:AA:680:U:H5'	2.19	0.43
10:AA:68:U:H3'	10:AA:69:A:C8	2.54	0.43
10:AA:234:G:H2'	10:AA:235:A:O4'	2.18	0.43
31:AV:35:LEU:HD21	31:AV:41:VAL:CG2	2.45	0.43
10:AA:1715:A:H3'	10:AA:1715:A:H8	1.84	0.43
11:BB:56:ALA:CB	11:BB:157:ILE:HD11	2.48	0.43
26:AQ:48:ILE:HB	26:AQ:49:GLU:OE1	2.19	0.43
12:BC:227:ILE:HG22	12:BC:228:ARG:N	2.33	0.43
10:BA:1259:A:N6	10:BA:1301:A:C5'	2.82	0.43
22:BM:119:ILE:CG2	28:BS:124:PHE:CE2	3.00	0.43
10:AA:89:A:H5''	10:AA:90:U:OP2	2.19	0.43
32:AW:194:VAL:HG21	32:AW:240:LEU:HD13	2.00	0.43
10:AA:986:G:C2	10:AA:987:U:C5	3.07	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
18:BI:11:THR:CG2	18:BI:86:ALA:O	2.65	0.43
10:AA:787:A:C4	17:AH:106:THR:O	2.72	0.43
34:AY:152:ASP:CB	34:AY:153:PRO:HD2	2.39	0.43
10:BA:230:A:H2'	10:BA:231:U:O4'	2.19	0.43
7:A7:9:LYS:HG3	7:A7:13:TYR:HE1	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:981:A:O2'	10:BA:982:U:H5''	2.19	0.43
17:AH:114:GLU:O	17:AH:117:ARG:HG3	2.19	0.43
16:BG:152:GLY:O	16:BG:155:GLU:N	2.51	0.43
7:B7:3:HIS:CD2	10:BA:1204:U:O4'	2.72	0.43
10:BA:622:G:H5'	24:BO:122:SER:HG	1.82	0.43
10:BA:972:G:C2'	10:BA:973:A:H5'	2.49	0.43
11:AB:84:LYS:HZ1	11:AB:197:LEU:HD22	1.84	0.43
27:BR:211:ALA:C	27:BR:212:HIS:CD2	2.89	0.43
10:AA:690:A:O2'	10:AA:691:A:H5'	2.18	0.43
28:BS:31:GLU:HG2	28:BS:31:GLU:H	1.58	0.43
12:AC:71:GLU:O	12:AC:75:PHE:CD2	2.71	0.43
7:B7:100:ILE:HG21	12:BC:58:PRO:HB2	2.00	0.43
17:AH:110:ILE:C	17:AH:111:LEU:HD23	2.38	0.43
19:BJ:117:THR:HG22	19:BJ:118:ALA:H	1.84	0.43
10:AA:1529:U:OP1	10:AA:1529:U:C4'	2.67	0.43
10:BA:1529:U:OP1	10:BA:1529:U:C4'	2.67	0.43
10:AA:1518:G:C2	10:AA:1519:U:C5	3.06	0.43
33:AX:59:SER:HA	33:AX:60:PRO:HD2	1.87	0.43
29:AT:22:TYR:CD1	29:AT:22:TYR:O	2.71	0.43
10:BA:736:A:OP2	32:BW:189:ASN:HB2	2.19	0.43
10:AA:579:A:O2'	10:AA:580:G:H5'	2.19	0.43
10:AA:1330:U:O3'	29:AT:138:THR:HG23	2.19	0.43
12:AC:135:LYS:HB3	12:AC:192:MET:CE	2.49	0.43
10:BA:658:C:C2	10:BA:659:G:C8	3.06	0.43
17:BH:83:LEU:HD11	17:BH:120:HIS:C	2.39	0.43
21:BL:124:VAL:O	21:BL:124:VAL:HG12	2.18	0.43
4:B4:28:ARG:H	4:B4:28:ARG:HG2	1.57	0.43
10:AA:610:G:C2	10:AA:1078:U:O2	2.71	0.43
14:AE:144:TYR:HE1	35:AZ:24:ILE:HD12	1.83	0.43
10:AA:1072:G:H5'	21:AL:7:ARG:NH2	2.34	0.43
10:AA:589:G:C6	10:AA:590:C:C4	3.06	0.43
16:AG:61:CYS:SG	16:AG:65:GLU:HB3	2.59	0.43
10:AA:444:A:O5'	10:AA:445:U:H5	2.01	0.43
22:AM:45:ILE:CD1	22:AM:85:LEU:HD13	2.49	0.43
13:AD:71:PHE:CE1	32:AW:254:ARG:HD3	2.54	0.43
12:AC:15:VAL:HG13	12:AC:16:ALA:N	2.33	0.43
31:BV:53:PHE:CZ	31:BV:57:LEU:HD21	2.54	0.43
10:BA:1262:U:O4	10:BA:1277:U:C5	2.72	0.43
10:BA:143:C:H2'	10:BA:144:C:C6	2.54	0.43
10:BA:65:C:H3'	10:BA:65:C:C6	2.54	0.43
13:AD:40:ARG:O	13:AD:41:GLU:C	2.57	0.43
20:BK:43:HIS:CE1	20:BK:52:THR:HG23	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:AQ:73:LEU:HD12	26:AQ:120:ASP:O	2.18	0.43
10:BA:1574:C:O5'	10:BA:1574:C:H6	2.01	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
1:B1:42:ILE:H	1:B1:63:GLU:CG	2.17	0.43
1:B1:62:ARG:NH1	16:BG:133:ALA:HB3	2.33	0.43
27:AR:183:PHE:O	27:AR:183:PHE:CD1	2.72	0.43
25:BP:3:ILE:CG2	25:BP:4:VAL:H	2.30	0.43
13:BD:136:VAL:HA	13:BD:155:SER:O	2.18	0.43
13:BD:40:ARG:O	13:BD:43:TRP:N	2.51	0.43
35:AZ:31:LYS:NZ	35:AZ:36:ASN:HD21	2.16	0.43
3:A3:103:LYS:CG	3:A3:113:ARG:HH12	2.24	0.43
3:A3:131:LEU:CD2	3:A3:131:LEU:H	2.30	0.43
3:A3:117:ARG:HH22	10:AA:834:A:H2'	1.84	0.43
10:AA:1402:C:O2	10:AA:1402:C:C2'	2.67	0.43
10:AA:1155:A:C6	10:AA:1156:A:C6	3.07	0.43
10:BA:1224:C:H2'	10:BA:1225:U:H6	1.84	0.43
27:AR:114:PHE:HD1	27:AR:114:PHE:H	1.66	0.43
5:A5:59:PHE:CZ	20:AK:128:ARG:CZ	3.01	0.43
10:AA:311:U:C4'	10:AA:312:C:O4'	2.66	0.43
20:BK:91:ASN:ND2	20:BK:125:LYS:HD2	2.32	0.43
17:AH:14:LEU:HD12	17:AH:25:VAL:HG21	2.01	0.43
10:AA:321:U:H5'	10:AA:322:G:OP2	2.19	0.43
10:BA:1552:U:H2'	10:BA:1553:C:H5'	2.00	0.43
27:BR:336:PHE:N	27:BR:336:PHE:CD1	2.87	0.43
10:BA:1125:A:N6	10:BA:1126:C:N4	2.66	0.43
12:AC:129:VAL:HG12	12:AC:134:ALA:CB	2.49	0.43
10:AA:1278:C:O2'	10:AA:1279:U:P	2.77	0.43
31:BV:98:ILE:HG23	31:BV:102:THR:CB	2.46	0.43
10:BA:867:U:C6	10:BA:867:U:H5'	2.53	0.43
10:BA:98:U:C6	10:BA:98:U:C3'	3.02	0.43
4:A4:60:SER:OG	4:A4:94:VAL:CB	2.66	0.43
3:B3:63:ILE:HD11	3:B3:94:PHE:CE2	2.53	0.43
10:BA:554:U:H2'	10:BA:555:G:C8	2.53	0.43
8:B8:30:TRP:CD1	8:B8:31:THR:N	2.85	0.43
7:A7:14:LYS:C	7:A7:16:LEU:N	2.72	0.43
7:A7:11:ARG:C	7:A7:15:GLN:HE21	2.22	0.43
2:A2:174:ALA:HB1	2:A2:189:TYR:O	2.19	0.43
10:BA:730:A:C2	10:BA:731:C:C2	3.06	0.43
7:A7:54:PHE:HB3	7:A7:72:GLY:CA	2.48	0.43
10:AA:1416:G:O2'	10:AA:1417:A:OP2	2.35	0.43
32:BW:37:LYS:HZ3	32:BW:37:LYS:HB3	1.84	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:B3:13:THR:O	3:B3:17:GLU:HG3	2.18	0.43
13:AD:69:ARG:NH2	13:AD:92:LYS:NZ	2.66	0.43
27:AR:211:ALA:HB1	27:AR:212:HIS:CD2	2.54	0.43
10:AA:1095:G:C2	10:AA:1099:G:C6	3.07	0.43
11:BB:122:ASP:HB3	11:BB:125:SER:HB2	2.00	0.43
34:BY:1:MET:HE3	34:BY:109:LEU:CD1	2.49	0.43
10:BA:1000:U:H4'	10:BA:1097:A:H61	1.83	0.43
1:B1:50:ARG:N	1:B1:53:ASP:OD2	2.48	0.43
10:AA:1018:G:C2'	10:AA:1019:G:H5'	2.49	0.43
10:AA:101:A:H2'	10:AA:102:A:H8	1.84	0.43
24:BO:82:CYS:SG	24:BO:82:CYS:O	2.77	0.43
9:A9:123:ILE:HD11	9:A9:136:LYS:HD2	2.00	0.43
3:A3:160:ARG:O	3:A3:164:GLU:HB2	2.18	0.43
33:AX:13:LYS:O	33:AX:17:GLN:HG3	2.18	0.43
10:AA:1618:C:H2'	10:AA:1619:U:C6	2.53	0.43
7:A7:32:HIS:HD2	7:A7:35:THR:OG1	2.02	0.43
10:AA:154:G:O2'	34:AY:95:LYS:HE2	2.18	0.43
14:AE:169:ARG:O	14:AE:199:THR:HA	2.19	0.43
10:AA:1583:A:O2'	10:AA:1584:U:C5'	2.66	0.43
16:AG:59:THR:C	16:AG:61:CYS:H	2.22	0.43
10:BA:532:G:HO2'	10:BA:533:G:P	2.42	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
22:AM:41:ARG:HG2	22:AM:41:ARG:O	2.19	0.43
10:AA:766:G:O6	25:AP:10:ILE:N	2.49	0.43
24:AO:123:ARG:O	24:AO:126:ARG:HB2	2.19	0.43
10:BA:72:G:C4	10:BA:76:A:C4	3.06	0.43
9:B9:155:UNK:HA	9:B9:158:UNK:HG3	2.00	0.43
9:B9:154:UNK:CA	9:B9:157:UNK:HG3	2.47	0.43
13:AD:110:GLN:HG3	13:AD:126:ARG:CZ	2.48	0.43
6:B6:46:SER:C	6:B6:47:ASN:ND2	2.68	0.43
24:AO:141:TRP:C	24:AO:142:LYS:HG3	2.38	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
1:B1:58:MET:CE	16:BG:117:ARG:HD3	2.48	0.43
15:BF:71:ILE:HG22	15:BF:73:LEU:HD22	1.99	0.43
9:A9:130:ASP:O	9:A9:142:LYS:HG3	2.19	0.43
10:AA:125:U:C4	10:AA:171:U:C4	3.06	0.43
11:AB:5:ARG:HH21	11:AB:176:ARG:HE	1.66	0.43
30:AU:121:GLU:HA	30:AU:124:LEU:HD11	2.01	0.43
8:B8:95:LYS:HZ1	8:B8:98:LYS:HD2	1.83	0.43
30:BU:55:TYR:HB3	30:BU:56:VAL:H	1.60	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1311:C:H4'	10:AA:1312:U:OP2	2.18	0.43
27:AR:93:SER:O	27:AR:100:LEU:HA	2.18	0.43
5:A5:49:SER:OG	20:AK:117:ARG:HD3	2.17	0.43
10:BA:1313:G:H4'	27:BR:101:ARG:HH22	1.83	0.43
10:BA:1292:U:O2	10:BA:1294:A:H5'	2.19	0.43
2:B2:145:ARG:NH1	10:BA:181:G:O6	2.51	0.43
27:BR:238:LEU:HD23	27:BR:240:TRP:CZ2	2.54	0.43
32:AW:188:GLY:O	32:AW:191:ILE:CG2	2.66	0.43
27:BR:190:VAL:HG23	27:BR:219:LEU:HD22	2.00	0.43
10:BA:1125:A:C5	10:BA:1126:C:C5	3.07	0.43
10:AA:985:C:C2	10:AA:986:G:C8	3.07	0.43
10:BA:1183:A:H1'	28:BS:102:TYR:OH	2.19	0.43
11:AB:2:ALA:HB3	11:AB:6:LYS:CD	2.49	0.43
10:AA:1063:A:O2'	10:AA:1064:A:P	2.76	0.43
27:AR:233:LYS:C	27:AR:235:LYS:N	2.71	0.43
11:AB:134:SER:CB	11:AB:152:TYR:CD2	3.01	0.43
30:BU:96:LYS:HB3	30:BU:98:LYS:HE2	2.00	0.43
14:AE:45:LEU:O	14:AE:48:ILE:HB	2.19	0.43
5:B5:12:GLN:HG3	5:B5:33:ASP:OD2	2.19	0.43
35:BZ:34:TRP:CD1	35:BZ:82:ALA:HB1	2.49	0.43
10:AA:971:A:N6	10:AA:990:U:C5	2.87	0.43
10:AA:1493:A:H2'	10:AA:1494:U:OP2	2.19	0.43
18:BI:112:MET:HG2	18:BI:119:LEU:HD12	1.99	0.43
6:B6:35:CYS:SG	6:B6:36:ALA:N	2.92	0.43
10:BA:507:G:H2'	10:BA:508:A:O4'	2.19	0.43
15:AF:55:LEU:O	15:AF:56:SER:CB	2.67	0.43
10:BA:1692:C:O2'	10:BA:1693:A:H5'	2.18	0.43
32:BW:249:THR:CG2	32:BW:251:LEU:HB2	2.48	0.43
10:AA:1345:A:C8	10:AA:1345:A:H5'	2.54	0.43
8:A8:34:LYS:HD3	8:A8:36:LYS:HB3	1.99	0.43
13:BD:83:TYR:CD2	13:BD:147:MET:HG3	2.54	0.43
10:BA:639:C:H2'	10:BA:640:A:C8	2.53	0.43
7:A7:77:LYS:HA	7:A7:84:ALA:CB	2.49	0.43
7:A7:35:THR:O	7:A7:35:THR:HG22	2.18	0.43
7:A7:35:THR:HB	7:A7:37:VAL:HG23	2.01	0.43
14:BE:70:ASP:O	14:BE:72:GLN:HG3	2.19	0.43
10:BA:713:U:H2'	10:BA:714:A:C8	2.54	0.43
10:AA:41:U:H4'	10:AA:42:A:O5'	2.19	0.43
10:AA:14:C:C2	10:AA:15:U:C5	3.07	0.43
10:BA:1058:A:H5''	14:BE:164:GLY:O	2.19	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	Distance(Å)	Clash(Å)
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: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
22:AM:82:PRO:HD2	22:AM:85:LEU:HD12	2.01	0.43
29:AT:44:SER:O	29:AT:45:VAL:HB	2.19	0.43
12:AC:10:LYS:NZ	19:AJ:86:LYS:NZ	2.67	0.43
24:BO:134:ASN:O	24:BO:136:LYS:HG3	2.19	0.43
10:BA:1603:A:N6	10:BA:1716:A:O2'	2.52	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
27:BR:183:PHE:CE2	27:BR:225:GLY:O	2.71	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: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
31:AV:64:GLY:N	31:AV:65:PRO:HD2	2.34	0.43
24:AO:143:TYR:HE1	24:AO:148:ALA:HB2	1.84	0.43
8:B8:60:VAL:HG12	8:B8:68:THR:HB	1.99	0.43
10:BA:1402:C:C2'	10:BA:1402:C:O2	2.66	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
18:AI:30:LEU:H	18:AI:66:ASP:HA	1.84	0.43
10:AA:125:U:C4'	10:AA:126:A:C5'	2.92	0.43
2:A2:18:MET:CE	2:A2:19:PRO:O	2.67	0.43
1:A1:12:MET:SD	1:A1:30:VAL:HG21	2.59	0.43
10:BA:1199:G:O2'	10:BA:1200:G:P	2.76	0.43
26:AQ:56:LYS:HB2	26:AQ:109:HIS:NE2	2.34	0.43
27:BR:47:ARG:C	27:BR:49:LYS:H	2.21	0.43
27:AR:268:GLN:CB	27:AR:284:MET:HE3	2.48	0.43
10:AA:474:G:H2'	10:AA:475:C:C6	2.54	0.43
32:BW:255:LYS:HA	32:BW:260:TYR:H	1.84	0.43
17:AH:15:VAL:HG22	17:AH:72:CYS:SG	2.59	0.43
8:A8:46:GLU:CB	22:AM:7:LYS:HE3	2.42	0.43
10:BA:1259:A:H4'	10:BA:1260:G:O5'	2.17	0.43
16:AG:102:ASN:O	16:AG:104:LEU:N	2.52	0.43
10:AA:967:U:H1'	20:AK:140:THR:CG2	2.49	0.43
30:BU:97:VAL:O	30:BU:97:VAL:HG13	2.18	0.43
13:BD:45:VAL:HG21	13:BD:105:MET:HE1	2.01	0.43
27:AR:256:SER:OG	27:AR:274:THR:OG1	2.30	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AB:31:ARG:HG3	11:AB:32:TYR:CE1	2.53	0.43
10:BA:378:A:O2'	10:BA:379:A:P	2.77	0.43
7:A7:12:ILE:O	7:A7:13:TYR:C	2.58	0.43
2:B2:84:THR:HB	2:B2:112:ILE:CG2	2.49	0.43
2:B2:35:MET:HE3	2:B2:37:LYS:HG3	1.99	0.43
2:A2:112:ILE:HD11	2:A2:174:ALA:HB3	2.00	0.43
10:BA:1496:A:H62	10:BA:1497:A:N6	2.17	0.43
12:AC:56:THR:HA	12:AC:94:ILE:HB	2.01	0.43
29:BT:10:VAL:HG22	29:BT:69:TYR:CE2	2.54	0.43
10:BA:503:A:P	13:BD:174:ARG:HH21	2.41	0.43
5:B5:10:ARG:NH1	5:B5:12:GLN:NE2	2.67	0.43
10:BA:1165:A:O2'	10:BA:1166:A:OP1	2.34	0.43
3:B3:13:THR:HG22	3:B3:14:LYS:N	2.34	0.43
16:AG:24:ILE:CD1	16:AG:30:GLN:HA	2.48	0.43
10:BA:1095:G:C2	10:BA:1099:G:C6	3.06	0.43
11:BB:64:GLN:HG2	14:BE:245:SER:HB3	2.00	0.43
27:AR:44:SER:OG	27:AR:52:MET:HB2	2.19	0.43
11:AB:165:GLU:H	11:AB:165:GLU:CD	2.22	0.43
10:AA:1644:C:O5'	10:AA:1644:C:H6	2.01	0.43
16:AG:182:SER:O	16:AG:183:SER:HB3	2.19	0.43
2:A2:117:PHE:CD1	2:A2:117:PHE:N	2.87	0.43
16:BG:182:SER:O	16:BG:183:SER:HB3	2.19	0.43
27:BR:105:LEU:H	27:BR:105:LEU:HG	1.66	0.43
20:BK:42:ILE:HD11	20:BK:115:ALA:CB	2.48	0.43
27:BR:287:SER:O	27:BR:288:LYS:HD3	2.19	0.43
31:BV:83:ASP:C	31:BV:84:TYR:HD1	2.22	0.43
20:BK:110:PRO:CG	20:BK:111:GLY:N	2.82	0.43
15:BF:83:GLN:O	15:BF:87:GLU:HG3	2.18	0.43
27:AR:113:ARG:HG2	27:AR:113:ARG:NH1	2.34	0.43
25:AP:43:ALA:HB1	25:AP:48:VAL:O	2.18	0.43
4:B4:72:LEU:HD11	4:B4:195:ILE:HG21	2.01	0.43
21:BL:17:ARG:NH2	21:BL:20:LYS:HB3	2.34	0.43
7:A7:79:LYS:HD3	7:A7:79:LYS:HA	1.80	0.43
1:B1:55:LEU:HA	1:B1:55:LEU:HD12	1.74	0.43
10:AA:16:G:C2	10:AA:17:C:C4	3.07	0.43
21:AL:19:ARG:HG3	26:AQ:96:TYR:OH	2.19	0.43
10:BA:1069:U:O2	14:BE:169:ARG:HD2	2.19	0.43
10:AA:472:A:C4	10:AA:502:G:N2	2.87	0.43
10:AA:537:A:O2'	10:AA:538:A:P	2.74	0.43
8:A8:73:LEU:N	8:A8:73:LEU:HD23	2.34	0.43
22:BM:80:GLY:O	22:BM:81:ILE:O	2.36	0.43
29:AT:56:TRP:HE1	29:AT:103:ILE:CD1	2.32	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A6:28:SER:HB2	6:A6:45:PHE:CE1	2.54	0.43
10:AA:840:A:H4'	17:AH:57:ARG:CG	2.49	0.43
10:AA:932:G:C5'	24:AO:7:LYS:HZ3	2.28	0.43
10:AA:44:U:H5'	10:AA:44:U:H6	1.83	0.43
10:AA:981:A:O2'	10:AA:982:U:C5'	2.67	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
34:BY:180:GLN:O	34:BY:181:ARG:CB	2.58	0.43
9:B9:160:UNK:O	9:B9:164:UNK:HG3	2.18	0.43
13:AD:40:ARG:CG	13:AD:41:GLU:N	2.67	0.43
3:B3:141:ILE:HG22	3:B3:142:ARG:N	2.33	0.43
17:BH:126:LEU:HA	17:BH:126:LEU:HD23	1.72	0.43
10:AA:642:G:C3'	10:AA:643:U:H5'	2.49	0.43
8:B8:68:THR:HA	8:B8:71:GLU:CG	2.49	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
10:AA:887:U:C6	10:AA:887:U:C5'	3.02	0.43
7:B7:61:TRP:CE2	23:BN:22:VAL:HG13	2.54	0.43
10:BA:465:A:H2'	10:BA:466:A:O4'	2.19	0.43
18:AI:29:GLY:CA	18:AI:65:LEU:O	2.67	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
11:BB:189:GLU:HG3	11:BB:190:GLU:N	2.33	0.43
22:BM:94:ASP:OD2	28:BS:16:LYS:HA	2.19	0.43
17:BH:46:TYR:C	17:BH:66:ILE:HD12	2.38	0.43
10:AA:956:A:N7	10:AA:957:A:C5	2.87	0.43
10:BA:618:G:H2'	10:BA:619:C:O4'	2.19	0.43
2:B2:192:GLU:CA	2:B2:196:LEU:HB2	2.49	0.43
10:BA:301:C:C2'	10:BA:302:U:H5'	2.49	0.43
16:BG:102:ASN:O	16:BG:104:LEU:N	2.52	0.43
14:BE:249:HIS:O	14:BE:253:GLN:OE1	2.37	0.43
10:AA:301:C:H2'	10:AA:302:U:H5'	2.01	0.43
17:AH:15:VAL:C	17:AH:17:ALA:N	2.72	0.43
2:A2:109:ILE:HG22	2:A2:191:LEU:HD11	2.01	0.43
26:AQ:35:LYS:CG	26:AQ:36:ASN:N	2.82	0.43
10:AA:26:U:C2'	10:AA:27:A:C5'	2.89	0.43
32:BW:144:HIS:C	32:BW:146:SER:N	2.70	0.43
32:BW:46:VAL:HA	32:BW:50:GLU:OE1	2.19	0.43
27:BR:297:GLU:H	27:BR:298:PRO:HD3	1.83	0.43
2:A2:2:GLY:N	10:AA:384:C:P	2.91	0.43
12:AC:126:ILE:O	12:AC:130:ILE:HG13	2.19	0.43
6:B6:68:LYS:CD	10:BA:1027:U:OP1	2.66	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BU:84:GLY:HA2	30:BU:86:PHE:CE2	2.53	0.43
34:AY:153:PRO:HG2	34:AY:154:ILE:HG13	2.01	0.43
10:BA:977:U:H2'	10:BA:978:C:O4'	2.18	0.43
10:AA:1036:U:H5''	10:AA:1037:G:OP2	2.18	0.43
27:AR:84:LEU:HD22	27:AR:91:ALA:HB2	1.99	0.43
7:B7:40:LEU:O	7:B7:40:LEU:HD23	2.19	0.43
11:BB:32:TYR:HD1	11:BB:32:TYR:H	1.66	0.43
12:AC:173:VAL:HA	12:AC:189:VAL:O	2.18	0.43
2:B2:80:ILE:HD13	2:B2:120:TRP:CE3	2.53	0.43
3:B3:13:THR:HB	3:B3:16:GLU:HG3	2.01	0.43
10:AA:1422:C:H5''	23:AN:8:THR:HB	1.99	0.43
10:BA:972:G:O2'	10:BA:973:A:H5'	2.19	0.43
10:BA:964:G:H2'	10:BA:965:G:O4'	2.19	0.43
9:B9:120:GLY:C	9:B9:122:GLY:H	2.23	0.43
25:BP:49:ASP:OD2	25:BP:149:LYS:HB2	2.19	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:BW:87:GLY:N	32:BW:90:ASP:OD2	2.45	0.43
33:AX:39:ILE:HA	33:AX:42:ASN:HD22	1.83	0.43
32:AW:213:LYS:HA	32:AW:218:ASN:O	2.19	0.43
20:AK:104:GLU:O	20:AK:105:THR:C	2.58	0.43
12:BC:207:THR:CG2	12:BC:208:PRO:HD2	2.49	0.43
28:BS:60:LYS:HZ3	28:BS:64:LYS:CE	2.30	0.43
24:BO:148:ALA:O	24:BO:152:VAL:HG23	2.19	0.43
14:AE:213:LYS:O	14:AE:217:TYR:HD1	2.01	0.43
10:AA:847:A:H2'	10:AA:848:C:O4'	2.19	0.43
10:AA:580:G:H2'	10:AA:581:C:O4'	2.18	0.43
4:A4:72:LEU:HD11	4:A4:195:ILE:HG21	2.01	0.43
7:B7:82:ILE:HG13	30:BU:17:LYS:NZ	2.34	0.43
21:AL:124:VAL:HG12	21:AL:124:VAL:O	2.19	0.43
14:AE:115:GLY:HA3	14:AE:133:ALA:HB2	2.01	0.43
13:AD:60:LEU:HD21	13:AD:93:LEU:HB3	2.00	0.42
14:BE:81:VAL:O	14:BE:82:LEU:HD23	2.19	0.42
10:AA:472:A:O2'	10:AA:473:A:C5'	2.67	0.42
10:BA:1474:G:H5''	29:BT:102:LYS:HG2	2.00	0.42
29:BT:45:VAL:HG21	29:BT:83:PHE:CZ	2.54	0.42
10:AA:1376:A:O2'	10:AA:1377:A:H5'	2.19	0.42
22:AM:82:PRO:HD3	29:AT:40:TRP:CH2	2.53	0.42
23:AN:22:VAL:HB	23:AN:23:CYS:H	1.65	0.42
10:AA:840:A:OP2	24:AO:66:ARG:NH2	2.46	0.42
17:AH:30:VAL:O	17:AH:59:LYS:HE2	2.19	0.42
10:BA:1031:A:H2'	10:BA:1032:U:O4'	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:980:G:N1	10:AA:981:A:N6	2.67	0.42
31:BV:55:THR:O	31:BV:58:MET:HB2	2.19	0.42
10:BA:1212:U:C5'	10:BA:1213:G:OP1	2.62	0.42
10:BA:1263:G:N2	10:BA:1296:G:C2	2.87	0.42
9:B9:143:ILE:HB	9:B9:146:UNK:CB	2.30	0.42
10:BA:873:G:H5''	20:BK:51:GLU:OE2	2.19	0.42
17:BH:103:VAL:C	17:BH:104:LEU:HD23	2.39	0.42
17:BH:55:ASP:OD1	17:BH:57:ARG:HB2	2.19	0.42
10:BA:1734:A:H2'	10:BA:1735:A:C8	2.54	0.42
10:BA:1170:G:C3'	10:BA:1171:G:H5'	2.49	0.42
22:BM:29:PRO:HA	22:BM:43:ALA:HB1	2.00	0.42
27:AR:179:LYS:O	27:AR:180:VAL:O	2.37	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
11:AB:5:ARG:CG	11:AB:187:LYS:HZ1	2.32	0.42
9:A9:143:ILE:HB	9:A9:146:UNK:CB	2.29	0.42
3:A3:126:LEU:O	3:A3:130:LEU:HG	2.19	0.42
10:AA:156:U:H3'	10:AA:157:G:C8	2.54	0.42
10:AA:1253:G:O2'	10:AA:1254:U:H5'	2.19	0.42
27:AR:126:PHE:O	27:AR:170:TYR:HD2	2.02	0.42
10:AA:336:U:H4'	10:AA:337:G:O5'	2.18	0.42
10:BA:1312:U:O2'	10:BA:1313:G:OP2	2.31	0.42
10:BA:682:C:H2'	10:BA:683:A:C8	2.53	0.42
26:BQ:86:ARG:HD2	26:BQ:103:HIS:CD2	2.53	0.42
10:BA:476:U:H2'	10:BA:477:G:H8	1.83	0.42
10:AA:1139:G:H1	10:AA:1550:U:H3	1.66	0.42
10:AA:1552:U:H2'	10:AA:1553:C:H5'	2.01	0.42
10:AA:1259:A:N6	10:AA:1301:A:C5'	2.79	0.42
10:BA:576:U:O2'	10:BA:577:C:H5'	2.20	0.42
2:A2:198:PHE:CD1	26:AQ:5:ILE:HG12	2.54	0.42
3:A3:135:THR:HG23	3:A3:136:LEU:HD23	2.01	0.42
2:B2:114:SER:HA	2:B2:172:ILE:HD11	2.01	0.42
32:AW:105:TYR:CD2	32:AW:191:ILE:CD1	3.00	0.42
32:BW:72:VAL:CG2	32:BW:79:ARG:O	2.67	0.42
10:AA:385:C:N4	10:AA:390:A:H62	2.17	0.42
26:BQ:68:LYS:CD	26:BQ:126:GLN:HG2	2.40	0.42
10:AA:864:U:C2'	10:AA:865:A:H5'	2.49	0.42
25:AP:78:GLN:CG	25:AP:143:LEU:HD22	2.49	0.42
31:BV:103:LYS:CD	31:BV:118:VAL:HG21	2.49	0.42
34:BY:76:LEU:HA	34:BY:93:LYS:O	2.19	0.42
22:AM:16:ARG:NH1	22:AM:19:ASN:O	2.51	0.42
32:BW:10:LYS:O	32:BW:11:ARG:C	2.57	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A2:147:VAL:HG12	2:A2:147:VAL:O	2.19	0.42
10:BA:787:A:H1'	17:BH:106:THR:O	2.19	0.42
17:AH:102:VAL:CB	17:AH:113:HIS:HB2	2.41	0.42
19:BJ:55:ARG:HB3	19:BJ:87:ARG:NH1	2.34	0.42
2:A2:37:LYS:HE2	2:A2:101:THR:HG22	1.99	0.42
7:A7:54:PHE:HD2	7:A7:72:GLY:HA2	1.84	0.42
10:AA:1142:G:C2	10:AA:1143:A:C8	3.07	0.42
7:B7:55:LEU:HD12	7:B7:55:LEU:HA	1.72	0.42
2:A2:149:LYS:O	2:A2:153:ARG:HB2	2.19	0.42
10:AA:1188:A:H4'	10:AA:1189:A:O5'	2.19	0.42
10:BA:1086:G:O2'	10:BA:1087:U:P	2.77	0.42
7:B7:99:PHE:CE1	12:BC:69:HIS:NE2	2.87	0.42
10:BA:970:A:H2	10:BA:1730:G:C4'	2.31	0.42
3:B3:52:LYS:CB	3:B3:56:LYS:HE2	2.46	0.42
35:AZ:67:VAL:HG21	35:AZ:83:LEU:CD1	2.49	0.42
7:B7:89:PRO:O	7:B7:92:PHE:N	2.37	0.42
4:A4:163:LYS:HB2	4:A4:166:GLN:HE21	1.84	0.42
21:BL:44:GLY:O	21:BL:45:ALA:O	2.36	0.42
10:BA:93:C:O2'	10:BA:94:U:H5'	2.19	0.42
26:BQ:52:TYR:C	26:BQ:52:TYR:CD1	2.92	0.42
20:AK:110:PRO:HG2	20:AK:111:GLY:H	1.83	0.42
20:BK:61:LYS:HD3	20:BK:61:LYS:HA	1.79	0.42
7:B7:77:LYS:HA	7:B7:84:ALA:CB	2.48	0.42
26:BQ:138:ALA:C	26:BQ:139:LEU:HD23	2.39	0.42
17:BH:120:HIS:CD2	17:BH:120:HIS:O	2.72	0.42
12:AC:222:THR:HG22	12:AC:223:ASP:N	2.34	0.42
18:BI:55:LEU:HD23	18:BI:55:LEU:N	2.33	0.42
18:BI:61:LYS:N	18:BI:61:LYS:HD3	2.34	0.42
24:BO:69:THR:HB	24:BO:71:GLN:HB2	2.01	0.42
10:AA:24:C:H2'	10:AA:25:A:H8	1.84	0.42
10:BA:604:G:C6	10:BA:608:C:C2	3.07	0.42
22:AM:18:LEU:O	22:AM:21:ASN:ND2	2.52	0.42
22:AM:11:PHE:HD1	22:AM:60:LEU:HD23	1.84	0.42
29:BT:45:VAL:CG1	29:BT:97:GLN:HG2	2.49	0.42
10:AA:62:G:H4'	10:AA:164:U:C5	2.53	0.42
10:AA:72:G:O6	10:AA:76:A:O4'	2.36	0.42
10:AA:64:U:C5	10:AA:79:G:N1	2.87	0.42
29:AT:38:THR:C	29:AT:40:TRP:N	2.71	0.42
24:BO:90:LEU:O	24:BO:94:ILE:HG13	2.19	0.42
10:BA:1717:C:C2'	10:BA:1718:A:C5'	2.97	0.42
16:BG:44:VAL:CG2	18:BI:48:ALA:HB3	2.49	0.42
31:BV:17:ILE:HA	31:BV:24:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1286:U:C2'	10:BA:1287:U:OP2	2.67	0.42
10:BA:887:U:H2'	10:BA:888:C:H5''	2.00	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:BA:1173:G:C2'	10:BA:1174:A:OP1	2.67	0.42
10:AA:1532:U:H5	28:AS:45:LYS:NZ	2.18	0.42
10:AA:880:G:C4	10:AA:881:U:H5	2.36	0.42
34:BY:39:ASP:C	34:BY:41:LEU:N	2.68	0.42
1:B1:42:ILE:HG13	1:B1:63:GLU:OE2	2.19	0.42
8:A8:31:THR:HG23	15:BF:42:PHE:HA	1.99	0.42
25:AP:2:THR:HG22	25:AP:3:ILE:HD13	2.00	0.42
34:AY:23:LYS:HZ3	34:AY:41:LEU:HA	1.84	0.42
10:AA:1156:A:C2	10:AA:1426:G:O4'	2.72	0.42
10:AA:1241:U:H4'	10:AA:1242:G:C5'	2.49	0.42
20:BK:56:VAL:CG1	20:BK:77:ALA:HA	2.45	0.42
27:BR:113:ARG:HG2	27:BR:113:ARG:NH1	2.33	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
26:BQ:32:ARG:HG2	26:BQ:33:TYR:N	2.33	0.42
16:BG:102:ASN:O	16:BG:105:GLU:N	2.46	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:AA:326:U:O2'	26:AQ:129:PRO:HG2	2.18	0.42
26:AQ:87:ARG:CD	26:AQ:104:ARG:CZ	2.97	0.42
10:AA:301:C:O2	10:AA:301:C:H2'	2.19	0.42
2:A2:91:TYR:HD2	2:A2:109:ILE:HD11	1.83	0.42
32:AW:88:LEU:HD11	32:AW:184:TYR:CE2	2.39	0.42
12:AC:130:ILE:HD11	12:AC:157:GLN:HB3	2.01	0.42
18:BI:31:LEU:HD23	18:BI:31:LEU:HA	1.63	0.42
11:BB:45:ASN:ND2	31:BV:109:LEU:HD13	2.31	0.42
18:AI:62:PHE:CD1	18:AI:62:PHE:C	2.92	0.42
10:AA:1033:A:N1	10:AA:1034:A:C2	2.88	0.42
34:BY:64:LYS:HZ1	34:BY:82:SER:N	2.16	0.42
7:A7:10:ILE:CG2	7:A7:14:LYS:HE3	2.44	0.42
2:B2:38:LEU:HD21	2:B2:104:LEU:CD1	2.44	0.42
10:BA:787:A:C2'	17:BH:105:THR:HG23	2.49	0.42
15:AF:44:TYR:HB2	15:AF:61:ILE:HD13	2.01	0.42
10:BA:1204:U:H6	10:BA:1204:U:O5'	2.02	0.42
16:BG:147:TYR:CD1	16:BG:147:TYR:C	2.92	0.42
30:BU:116:GLU:O	30:BU:120:ILE:HG13	2.19	0.42
2:B2:154:THR:O	2:B2:154:THR:CG2	2.67	0.42
32:AW:37:LYS:HB3	32:AW:37:LYS:HZ3	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BW:34:GLY:HA3	32:BW:35:PRO:HD2	1.91	0.42
10:BA:962:G:C4	10:BA:963:G:C8	3.07	0.42
6:A6:35:CYS:HB3	6:A6:38:CYS:SG	2.59	0.42
14:AE:225:TYR:C	14:AE:225:TYR:CD1	2.92	0.42
10:AA:804:A:O2'	10:AA:805:G:H5'	2.19	0.42
10:BA:690:A:O2'	10:BA:691:A:H5'	2.18	0.42
22:BM:87:ASN:CG	22:BM:99:GLN:NE2	2.73	0.42
3:A3:13:THR:O	3:A3:14:LYS:C	2.57	0.42
18:AI:138:SER:O	18:AI:139:LYS:HG3	2.18	0.42
29:BT:73:HIS:HA	29:BT:129:SER:OG	2.19	0.42
32:BW:210:CYS:SG	32:BW:227:ILE:HD11	2.59	0.42
10:BA:435:C:C2'	10:BA:436:C:H5'	2.49	0.42
19:BJ:95:VAL:HG22	19:BJ:116:MET:HE1	2.01	0.42
5:A5:73:LEU:HD12	5:A5:73:LEU:HA	1.83	0.42
10:AA:1623:A:C2'	10:AA:1624:G:OP2	2.67	0.42
20:AK:106:LYS:HZ3	20:AK:136:PRO:HD2	1.84	0.42
29:BT:29:ALA:O	29:BT:31:LYS:N	2.52	0.42
35:BZ:18:ASN:O	35:BZ:21:LYS:N	2.52	0.42
15:BF:58:ASN:HB3	15:BF:74:ASN:HD21	1.82	0.42
26:AQ:41:PHE:CE2	26:AQ:139:LEU:HB2	2.54	0.42
16:AG:87:VAL:HG11	16:AG:164:ILE:CG2	2.49	0.42
21:AL:113:VAL:O	21:AL:114:GLY:C	2.58	0.42
27:BR:38:ASP:OD2	27:BR:318:ASN:ND2	2.52	0.42
3:A3:112:GLN:O	3:A3:114:PRO:HD3	2.19	0.42
27:AR:31:PHE:N	27:AR:31:PHE:CD1	2.87	0.42
25:AP:74:TYR:CD2	25:AP:80:LEU:HA	2.54	0.42
11:BB:26:ASN:ND2	11:BB:28:GLN:HB2	2.35	0.42
10:AA:603:U:O2	21:AL:23:ARG:HA	2.19	0.42
14:AE:140:VAL:HG11	14:AE:219:LEU:HG	2.02	0.42
10:BA:1072:G:H5'	21:BL:7:ARG:NH2	2.34	0.42
10:AA:539:U:H2'	10:AA:540:U:O4'	2.18	0.42
10:AA:1515:A:N6	10:AA:1540:G:H1'	2.34	0.42
29:BT:49:LEU:HD12	29:BT:50:ALA:H	1.83	0.42
10:AA:71:U:H2'	10:AA:72:G:OP2	2.19	0.42
7:A7:61:TRP:NE1	12:AC:26:SER:CB	2.74	0.42
10:AA:1324:U:H5'	18:AI:6:PRO:HD3	2.01	0.42
16:BG:72:MET:CE	16:BG:81:LYS:HB2	2.48	0.42
1:A1:31:LEU:O	1:A1:32:ILE:HG13	2.19	0.42
10:BA:143:C:O5'	10:BA:143:C:H6	2.02	0.42
10:BA:631:C:O2	10:BA:838:U:H1'	2.19	0.42
10:BA:842:U:C3'	10:BA:842:U:C6	3.02	0.42
17:BH:30:VAL:HG12	17:BH:31:SER:N	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:667:C:O3'	17:AH:119:ARG:CZ	2.67	0.42
22:BM:9:SER:C	22:BM:11:PHE:N	2.72	0.42
15:BF:73:LEU:N	15:BF:73:LEU:CD2	2.78	0.42
10:AA:1617:G:H22	10:AA:1708:A:H2	1.67	0.42
10:AA:1569:A:C4	23:AN:13:TYR:CE2	3.06	0.42
28:BS:33:LEU:HD11	28:BS:59:ALA:CA	2.46	0.42
18:BI:129:LYS:C	18:BI:130:LYS:HG3	2.40	0.42
10:BA:1199:G:O6	30:BU:85:HIS:ND1	2.52	0.42
27:AR:186:TYR:C	27:AR:186:TYR:CD1	2.92	0.42
27:BR:267:LEU:N	27:BR:267:LEU:CD1	2.78	0.42
20:AK:27:VAL:CG1	20:AK:90:ILE:HG12	2.49	0.42
26:AQ:130:ILE:HD12	26:AQ:134:VAL:CG1	2.49	0.42
27:BR:114:PHE:HD1	27:BR:114:PHE:H	1.66	0.42
2:B2:196:LEU:O	2:B2:197:GLU:C	2.58	0.42
10:BA:344:A:H3'	10:BA:345:C:C6	2.54	0.42
10:AA:616:A:OP1	10:AA:616:A:H4'	2.19	0.42
10:AA:684:A:H2'	10:AA:685:A:N9	2.33	0.42
10:AA:681:G:H1	10:AA:719:G:H1	1.68	0.42
10:AA:235:A:C2	10:AA:814:A:C4	3.07	0.42
11:BB:68:ASP:OD1	14:BE:32:LYS:NZ	2.51	0.42
3:B3:47:GLU:HG2	3:B3:49:GLN:HE22	1.85	0.42
32:BW:122:LYS:HG3	32:BW:167:VAL:HG21	2.01	0.42
32:AW:73:PHE:CZ	32:AW:78:VAL:HG22	2.54	0.42
10:BA:782:A:C3'	10:BA:782:A:C8	3.02	0.42
3:A3:84:LEU:O	3:A3:88:LEU:HB2	2.17	0.42
34:BY:86:SER:O	34:BY:87:ARG:CB	2.60	0.42
2:B2:56:VAL:HG22	10:BA:324:A:C5'	2.49	0.42
10:AA:1660:A:N6	10:AA:1666:G:C6	2.88	0.42
10:BA:378:A:C2'	10:BA:379:A:OP2	2.68	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:258:A:O2'	10:AA:259:U:C5'	2.67	0.42
17:BH:112:THR:HG22	17:BH:113:HIS:N	2.34	0.42
11:BB:134:SER:CB	11:BB:152:TYR:CD2	3.02	0.42
2:B2:52:ARG:NH1	10:BA:1646:U:O3'	2.52	0.42
14:BE:45:LEU:HG	14:BE:49:PHE:CE2	2.55	0.42
11:BB:137:ASN:HD21	14:BE:54:PRO:HD3	1.84	0.42
10:AA:1536:U:C4	10:AA:1537:C:N4	2.88	0.42
27:AR:238:LEU:HD23	27:AR:240:TRP:HZ2	1.84	0.42
10:BA:272:U:H6	10:BA:272:U:O5'	2.02	0.42
22:AM:132:LYS:HZ1	22:AM:135:GLY:HA3	1.83	0.42
11:AB:119:ILE:N	11:AB:119:ILE:CD1	2.83	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AI:32:LYS:HG3	18:AI:35:GLY:HA2	2.02	0.42
22:AM:99:GLN:HG3	22:AM:99:GLN:O	2.19	0.42
2:A2:66:LEU:C	2:A2:67:ARG:HG2	2.39	0.42
4:B4:163:LYS:HB2	4:B4:166:GLN:HE21	1.83	0.42
1:B1:65:ARG:CG	1:B1:66:ARG:N	2.81	0.42
19:AJ:18:ARG:CG	19:AJ:18:ARG:O	2.67	0.42
19:AJ:23:LEU:CD2	19:AJ:112:ILE:HG12	2.48	0.42
5:B5:75:TYR:CD1	5:B5:75:TYR:N	2.88	0.42
24:AO:116:ARG:HA	24:AO:116:ARG:HD3	1.70	0.42
16:BG:47:THR:O	16:BG:49:GLY:N	2.52	0.42
26:BQ:54:ASP:HB2	26:BQ:81:ARG:NH1	2.34	0.42
2:B2:74:SER:HB3	2:B2:81:THR:OG1	2.20	0.42
10:AA:1436:C:O2	10:AA:1436:C:H2'	2.19	0.42
35:AZ:19:ASP:C	35:AZ:21:LYS:H	2.22	0.42
29:AT:29:ALA:O	29:AT:31:LYS:N	2.53	0.42
34:AY:221:LYS:O	34:AY:225:ALA:HB2	2.19	0.42
25:BP:17:SER:OG	25:BP:79:TYR:CD2	2.51	0.42
7:B7:81:GLY:HA3	30:BU:21:CYS:SG	2.59	0.42
3:A3:194:THR:O	3:A3:194:THR:HG22	2.19	0.42
6:B6:61:LEU:N	6:B6:61:LEU:HD22	2.34	0.42
27:AR:136:ALA:HB1	27:AR:165:VAL:HB	2.02	0.42
10:AA:3:C:H41	13:AD:16:ARG:CB	2.31	0.42
14:AE:181:ALA:HB2	14:AE:199:THR:HG21	2.01	0.42
14:AE:83:GLN:O	14:AE:101:GLY:HA2	2.19	0.42
10:BA:1070:U:H4'	10:BA:1071:U:OP2	2.19	0.42
10:BA:548:A:C4	13:BD:19:TYR:CE2	3.07	0.42
14:BE:220:ALA:C	14:BE:222:THR:N	2.71	0.42
8:A8:72:LYS:HB2	8:A8:73:LEU:CD2	2.44	0.42
16:AG:68:ILE:CG2	16:AG:84:CYS:HB3	2.49	0.42
12:AC:9:ASN:HB2	12:AC:12:LYS:H	1.84	0.42
5:B5:97:ARG:HA	10:BA:1750:A:H1'	2.01	0.42
18:BI:44:GLN:HG3	18:BI:45:ILE:HG13	2.01	0.42
16:BG:72:MET:O	16:BG:78:ALA:CB	2.65	0.42
10:BA:1453:C:C1'	18:BI:79:GLN:HE22	2.32	0.42
10:AA:1004:A:O2'	10:AA:1743:A:O4'	2.37	0.42
10:AA:977:U:H2'	10:AA:978:C:O4'	2.19	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:163:A:OP1	34:BY:137:ARG:CZ	2.66	0.42
31:AV:66:VAL:CG1	31:AV:69:ILE:HB	2.49	0.42
17:BH:15:VAL:C	17:BH:17:ALA:N	2.71	0.42
10:BA:1732:U:C6	10:BA:1732:U:C4'	3.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:B8:69:VAL:O	8:B8:73:LEU:HG	2.20	0.42
10:BA:1158:U:H1'	10:BA:1180:A:C8	2.54	0.42
22:BM:61:LEU:HD22	22:BM:65:GLN:HE21	1.81	0.42
10:AA:1532:U:H2'	10:AA:1533:G:H8	1.85	0.42
10:AA:882:G:O6	10:AA:883:A:N1	2.51	0.42
34:BY:23:LYS:HA	34:BY:40:THR:HG22	2.01	0.42
1:B1:4:GLU:HG2	1:B1:58:MET:CE	2.50	0.42
10:BA:929:A:H2'	10:BA:930:A:C5'	2.50	0.42
11:AB:187:LYS:HG3	11:AB:188:ASP:N	2.35	0.42
11:BB:176:ARG:O	11:BB:180:ILE:HG13	2.19	0.42
10:AA:796:U:O2'	10:AA:797:A:OP1	2.26	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
10:AA:1729:A:C2	10:AA:1739:G:C2	3.07	0.42
18:BI:30:LEU:H	18:BI:66:ASP:HA	1.84	0.42
10:AA:949:A:H3'	10:AA:950:G:H8	1.85	0.42
9:B9:126:ALA:HA	10:BA:1224:C:C5'	2.37	0.42
2:A2:22:ARG:HD2	2:A2:25:ARG:NH1	2.34	0.42
3:B3:95:THR:HG23	3:B3:129:ASP:OD2	2.19	0.42
10:BA:707:U:C3'	10:BA:707:U:C6	3.03	0.42
10:AA:92:G:H21	10:AA:418:G:H5'	1.83	0.42
27:BR:153:PHE:HD2	27:BR:203:PHE:CD2	2.38	0.42
10:AA:494:A:P	10:AA:495:C:OP2	2.77	0.42
10:AA:576:U:O2'	10:AA:577:C:H5'	2.20	0.42
10:BA:681:G:N1	10:BA:719:G:N2	2.48	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
3:A3:91:ILE:CG2	3:A3:166:LYS:HD2	2.49	0.42
10:BA:1469:U:H5''	29:BT:75:GLY:HA3	2.00	0.42
3:B3:135:THR:HG22	3:B3:136:LEU:HD23	2.02	0.42
10:AA:673:A:N3	10:AA:675:A:N6	2.67	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
26:AQ:17:LEU:C	26:AQ:20:LYS:HE2	2.39	0.42
22:BM:6:GLU:O	22:BM:7:LYS:O	2.37	0.42
22:AM:6:GLU:CB	22:AM:10:ASP:HB2	2.37	0.42
32:BW:188:GLY:C	32:BW:190:ASN:N	2.73	0.42
5:B5:15:ARG:HD2	10:BA:914:G:O6	2.19	0.42
10:BA:326:U:O2'	26:BQ:129:PRO:HG2	2.20	0.42
10:AA:864:U:H2'	10:AA:865:A:H5'	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:BM:50:LEU:HD21	22:BM:72:LEU:HD12	2.01	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
22:BM:126:ARG:HG2	22:BM:133:VAL:HA	2.01	0.42
34:AY:76:LEU:C	34:AY:77:LEU:HD23	2.40	0.42
34:AY:98:ARG:HD2	34:AY:99:GLY:H	1.84	0.42
3:B3:84:LEU:O	3:B3:88:LEU:HB2	2.19	0.42
10:AA:1035:A:H2'	10:AA:1035:A:N3	2.35	0.42
16:AG:148:PHE:O	16:AG:151:LYS:HB3	2.19	0.42
25:BP:109:LYS:O	25:BP:113:LYS:HB2	2.19	0.42
30:AU:20:ASN:ND2	30:AU:20:ASN:O	2.53	0.42
10:BA:1016:U:H4'	10:BA:1016:U:OP1	2.20	0.42
10:BA:89:A:C8	10:BA:389:G:C4	3.08	0.42
31:AV:102:THR:HG22	31:AV:106:LEU:HD11	2.01	0.42
25:BP:148:ALA:O	25:BP:149:LYS:C	2.57	0.42
6:B6:53:ILE:HG22	6:B6:58:SER:HA	2.01	0.42
10:BA:507:G:H2'	10:BA:508:A:C5'	2.49	0.42
10:BA:689:A:H2'	10:BA:690:A:H8	1.82	0.42
10:AA:565:G:H8	10:AA:565:G:H3'	1.85	0.42
10:BA:1017:C:OP2	10:BA:1017:C:H4'	2.19	0.42
33:AX:33:GLY:C	33:AX:35:SER:N	2.72	0.42
9:B9:76:LYS:O	9:B9:77:LYS:HB3	2.20	0.42
10:AA:106:U:OP1	10:AA:736:A:O2'	2.33	0.42
28:AS:60:LYS:NZ	28:AS:64:LYS:CE	2.82	0.42
32:BW:157:LYS:O	32:BW:160:ASP:OD2	2.36	0.42
19:BJ:80:PHE:HB3	23:BN:51:PHE:HB3	2.01	0.42
28:BS:60:LYS:CD	28:BS:64:LYS:HE3	2.49	0.42
2:B2:72:ASN:ND2	10:BA:255:C:O4'	2.50	0.42
16:AG:47:THR:O	16:AG:48:ALA:C	2.56	0.42
11:BB:121:THR:O	11:BB:143:LEU:HB2	2.20	0.42
22:BM:123:ARG:NH1	22:BM:123:ARG:CG	2.82	0.42
22:BM:45:ILE:HD11	22:BM:85:LEU:HD13	2.01	0.42
14:BE:85:THR:CG2	14:BE:86:PRO:N	2.82	0.42
28:BS:81:VAL:O	28:BS:99:VAL:HG13	2.19	0.42
25:BP:77:GLN:O	25:BP:77:GLN:HG3	2.19	0.42
13:BD:32:GLY:HA3	33:BX:41:TYR:CG	2.54	0.42
2:B2:130:GLY:O	2:B2:131:LEU:C	2.57	0.42
12:AC:25:HIS:O	12:AC:29:SER:OG	2.31	0.42
14:AE:116:TRP:N	14:AE:132:HIS:HD2	2.05	0.42
10:BA:11:A:N3	10:BA:1272:A:O2'	2.38	0.42
10:BA:565:G:H8	10:BA:565:G:H3'	1.85	0.42
10:BA:5:U:OP1	14:BE:184:ILE:CD1	2.66	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AG:54:LYS:CG	16:AG:55:LYS:N	2.76	0.42
10:BA:499:A:H4'	33:BX:28:ARG:HE	1.84	0.42
10:AA:159:G:C2'	10:AA:160:C:H5'	2.49	0.42
10:AA:444:A:O2'	10:AA:445:U:P	2.77	0.42
10:AA:1473:G:H5''	29:AT:102:LYS:NZ	2.35	0.42
25:AP:18:ARG:HA	25:AP:73:VAL:O	2.20	0.42
10:AA:1487:A:C8	10:AA:1487:A:H3'	2.54	0.42
10:BA:758:A:C2	10:BA:769:C:O2	2.72	0.42
10:BA:1613:C:C1'	10:BA:1715:A:H2	2.16	0.42
10:BA:912:A:C3'	10:BA:912:A:N3	2.80	0.42
10:AA:1028:G:H2'	10:AA:1029:G:O4'	2.20	0.42
18:BI:20:ALA:CA	18:BI:71:VAL:HG22	2.41	0.42
10:BA:1366:G:N2	10:BA:1374:C:H1'	2.34	0.42
10:BA:58:G:C2'	10:BA:59:C:OP2	2.67	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
9:A9:92:HIS:NE2	10:AA:1225:U:O4	2.52	0.42
10:AA:1199:G:H4'	10:AA:1200:G:OP1	2.19	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
16:BG:158:PHE:C	16:BG:160:SER:H	2.20	0.42
19:BJ:69:PRO:O	23:BN:39:ARG:NH2	2.38	0.42
22:BM:18:LEU:HD11	22:BM:73:ILE:HD12	2.02	0.42
10:BA:798:G:C2	10:BA:799:G:C8	3.07	0.42
16:BG:193:GLU:O	16:BG:197:LYS:N	2.49	0.42
34:AY:23:LYS:HA	34:AY:40:THR:HG22	2.02	0.42
9:A9:154:UNK:O	9:A9:157:UNK:CG	2.68	0.42
10:AA:796:U:H6	10:AA:796:U:O5'	2.03	0.42
10:AA:954:G:H5''	10:AA:955:A:OP1	2.19	0.42
4:B4:26:LEU:O	20:BK:16:TYR:CD2	2.72	0.42
10:AA:948:A:H2'	10:AA:949:A:O4'	2.18	0.42
7:B7:9:LYS:HG3	7:B7:13:TYR:HE1	1.83	0.42
5:A5:44:MET:HA	5:A5:44:MET:HE2	2.02	0.42
20:AK:53:LEU:HB2	20:AK:54:VAL:H	1.70	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:418:G:H21	10:AA:451:G:H2'	1.85	0.42
10:AA:494:A:C8	10:AA:495:C:O4'	2.72	0.42
10:BA:306:A:N6	10:BA:341:G:C4	2.88	0.42
10:BA:494:A:P	10:BA:495:C:OP2	2.77	0.42
10:AA:217:A:C6	10:AA:820:U:C2	3.08	0.42
31:AV:35:LEU:CD2	31:AV:35:LEU:C	2.88	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:BB:59:VAL:HG11	11:BB:141:ILE:HD11	2.01	0.42
3:B3:47:GLU:CG	3:B3:61:VAL:HG22	2.50	0.42
2:A2:173:LEU:HA	2:A2:173:LEU:HD13	1.79	0.42
2:A2:196:LEU:O	2:A2:200:ILE:HG13	2.20	0.42
14:AE:244:PHE:N	14:AE:244:PHE:CD1	2.86	0.42
35:AZ:48:GLN:HE21	35:AZ:68:VAL:HG22	1.84	0.42
27:BR:334:ARG:CB	27:BR:336:PHE:HE1	2.32	0.42
32:AW:127:LYS:HZ3	32:AW:186:GLN:NE2	2.16	0.42
32:AW:67:ASP:O	32:AW:69:GLU:N	2.52	0.42
14:BE:30:GLN:N	14:BE:57:GLU:OE2	2.50	0.42
10:BA:391:A:H5'	10:BA:392:A:C5'	2.40	0.42
10:BA:468:U:H5'	10:BA:469:A:C5'	2.49	0.42
10:BA:453:G:O3'	32:BW:26:ILE:CD1	2.67	0.42
3:B3:62:LEU:HD21	3:B3:64:TYR:HE1	1.83	0.42
16:AG:70:THR:HB	16:AG:150:ILE:CD1	2.44	0.42
21:AL:3:VAL:HG12	21:AL:4:GLY:N	2.24	0.42
10:BA:787:A:N3	17:BH:105:THR:CG2	2.82	0.42
2:B2:147:VAL:O	2:B2:147:VAL:HG12	2.20	0.42
3:B3:138:GLY:O	3:B3:154:GLN:HG2	2.19	0.42
10:BA:258:A:O2'	10:BA:259:U:C5'	2.68	0.42
20:BK:103:VAL:HG12	20:BK:142:ARG:CD	2.49	0.42
10:BA:1013:G:OP2	24:BO:11:LYS:NZ	2.47	0.42
31:BV:112:GLN:NE2	31:BV:113:ASN:ND2	2.66	0.42
7:A7:52:ARG:CB	7:A7:54:PHE:HE1	2.30	0.42
11:AB:96:SER:CB	11:AB:111:LYS:HZ1	2.32	0.42
10:AA:242:U:H2'	10:AA:244:A:OP2	2.19	0.42
10:AA:508:A:C3'	10:AA:509:G:H5'	2.49	0.42
27:AR:234:ASP:C	27:AR:236:LYS:H	2.22	0.42
14:BE:157:GLN:N	14:BE:157:GLN:OE1	2.52	0.42
15:AF:55:LEU:HB2	15:AF:57:CYS:SG	2.59	0.42
34:BY:1:MET:HE3	34:BY:109:LEU:HD12	2.00	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
16:AG:26:ASP:OD1	16:AG:28:CYS:N	2.53	0.42
19:AJ:38:ILE:HG12	19:AJ:104:PHE:HE2	1.83	0.42
5:A5:24:THR:HG21	5:A5:73:LEU:HD12	2.01	0.42
2:B2:83:LYS:HB2	10:BA:255:C:H4'	2.00	0.42
18:BI:58:GLY:C	18:BI:60:GLN:N	2.72	0.42
10:AA:405:C:O2'	10:AA:406:U:H5'	2.19	0.42
3:A3:50:ILE:HB	3:A3:58:LYS:O	2.18	0.42
10:AA:713:U:H2'	10:AA:714:A:C8	2.54	0.42
10:AA:1448:U:OP1	29:AT:47:ARG:HB3	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:202:LYS:O	4:B4:205:LYS:HB2	2.20	0.42
10:AA:600:A:H4'	10:AA:601:G:H5''	2.00	0.42
14:AE:142:LYS:O	14:AE:156:PRO:HD3	2.19	0.42
10:AA:1069:U:O2	14:AE:169:ARG:HD2	2.20	0.42
14:BE:181:ALA:HB2	14:BE:199:THR:HG21	2.02	0.42
10:AA:533:G:C8	10:AA:533:G:H3'	2.55	0.42
8:A8:81:ARG:O	8:A8:84:MET:N	2.52	0.42
22:AM:28:THR:HG21	22:AM:61:LEU:CD1	2.47	0.42
24:BO:90:LEU:HG	24:BO:94:ILE:HD11	2.01	0.42
10:BA:761:U:O2'	10:BA:762:U:P	2.76	0.42
4:B4:119:LYS:O	4:B4:120:TRP:CG	2.73	0.42
10:BA:911:A:O2'	10:BA:912:A:O5'	2.37	0.42
18:BI:16:LYS:HA	18:BI:125:ARG:HH11	1.84	0.42
18:BI:16:LYS:O	18:BI:16:LYS:HG3	2.19	0.42
18:BI:12:PHE:CD1	18:BI:12:PHE:C	2.92	0.42
4:A4:119:LYS:O	4:A4:120:TRP:CG	2.73	0.42
10:BA:164:U:HO2'	10:BA:165:A:P	2.38	0.42
10:BA:85:G:N3	10:BA:444:A:C2	2.88	0.42
10:AA:1413:C:C4'	10:AA:1418:C:H41	2.32	0.42
9:B9:151:UNK:HG2	9:B9:152:UNK:N	2.34	0.42
10:AA:748:U:O4	13:AD:149:ARG:HG3	2.20	0.42
10:AA:755:G:P	13:AD:7:ASN:ND2	2.93	0.42
4:B4:60:SER:OG	4:B4:94:VAL:CB	2.67	0.42
10:BA:879:G:N2	10:BA:887:U:O4	2.52	0.42
10:BA:840:A:N6	24:BO:72:LYS:NZ	2.67	0.42
8:B8:65:THR:CG2	8:B8:66:VAL:N	2.83	0.42
10:BA:1400:G:C6	10:BA:1401:U:C4	3.08	0.42
22:BM:25:LYS:NZ	22:BM:57:ARG:HB3	2.35	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
23:BN:20:CYS:O	23:BN:22:VAL:N	2.53	0.42
13:BD:110:GLN:HG3	13:BD:126:ARG:CZ	2.49	0.42
11:AB:176:ARG:O	11:AB:180:ILE:HG13	2.20	0.42
3:A3:178:THR:O	3:A3:179:THR:OG1	2.36	0.42
10:AA:929:A:H2'	10:AA:930:A:H5'	2.02	0.42
10:AA:1170:G:C3'	10:AA:1171:G:H5'	2.49	0.42
4:A4:73:ALA:HB3	20:AK:128:ARG:HH22	1.85	0.42
35:AZ:2:ASN:O	35:AZ:3:SER:C	2.56	0.42
10:AA:451:G:OP1	25:AP:102:ARG:NH2	2.52	0.42
27:BR:184:ALA:O	27:BR:185:PRO:C	2.56	0.42
10:BA:681:G:O2'	10:BA:682:C:H5'	2.20	0.42
26:BQ:48:ILE:H	26:BQ:48:ILE:HG13	1.60	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1553:C:H5''	18:AI:137:ARG:O	2.19	0.42
10:AA:223:C:H2'	10:AA:224:G:H8	1.82	0.42
10:AA:1261:U:C3'	10:AA:1261:U:C6	3.02	0.42
31:AV:35:LEU:HD22	31:AV:47:ARG:HG2	2.01	0.42
10:BA:562:G:P	21:BL:69:LYS:HD2	2.60	0.42
17:AH:75:ILE:O	17:AH:75:ILE:HG22	2.18	0.42
32:BW:105:TYR:CD2	32:BW:191:ILE:CD1	3.02	0.42
14:AE:41:LYS:NZ	14:AE:247:PHE:CD1	2.86	0.42
12:BC:126:ILE:CG2	12:BC:157:GLN:HG3	2.49	0.42
16:AG:13:LEU:C	16:AG:15:GLY:H	2.22	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
25:AP:15:LEU:HD23	32:AW:96:LYS:HB2	2.01	0.42
14:AE:30:GLN:N	14:AE:57:GLU:OE2	2.52	0.42
22:AM:50:LEU:HB2	22:AM:52:ILE:HG13	2.01	0.42
10:BA:899:U:H2'	10:BA:900:A:H8	1.84	0.42
34:AY:182:LEU:HG	34:AY:184:THR:HG23	2.01	0.42
10:BA:734:U:H2'	10:BA:735:G:C8	2.44	0.42
10:BA:1319:U:O2'	10:BA:1320:A:OP1	2.32	0.42
25:AP:69:GLY:O	25:AP:70:PHE:HD1	2.02	0.42
10:BA:224:G:C2'	10:BA:225:C:C5'	2.97	0.42
10:BA:1036:U:C4'	10:BA:1037:G:OP2	2.67	0.42
12:BC:39:GLY:C	12:BC:40:ILE:HG13	2.40	0.42
10:BA:785:G:HO2'	10:BA:786:A:H8	1.68	0.42
10:BA:786:A:O2'	10:BA:787:A:P	2.78	0.42
30:BU:108:TYR:HE2	30:BU:120:ILE:CD1	2.32	0.42
12:AC:171:ILE:CG2	12:AC:173:VAL:HG23	2.50	0.42
8:A8:26:GLY:HA3	8:A8:29:LYS:CE	2.50	0.42
10:AA:972:G:O2'	10:AA:973:A:H5'	2.20	0.42
10:BA:25:A:N6	10:BA:593:A:N6	2.68	0.42
5:B5:28:ARG:HG3	20:BK:147:ARG:HA	2.02	0.42
7:A7:82:ILE:CG1	30:AU:17:LYS:HZ2	2.32	0.42
22:AM:87:ASN:CG	22:AM:99:GLN:NE2	2.73	0.42
20:BK:104:GLU:O	20:BK:105:THR:C	2.58	0.42
3:A3:13:THR:HG22	3:A3:14:LYS:N	2.35	0.42
21:BL:139:LYS:O	21:BL:140:GLU:HG3	2.19	0.42
11:BB:165:GLU:CD	11:BB:165:GLU:H	2.23	0.42
28:BS:31:GLU:CG	28:BS:32:LYS:H	2.28	0.42
16:AG:175:ALA:O	16:AG:186:ILE:HD11	2.19	0.42
13:BD:69:ARG:NH2	13:BD:92:LYS:HZ3	2.18	0.42
27:BR:13:LYS:HZ3	27:BR:295:GLU:CB	2.33	0.42
2:A2:159:LEU:O	2:A2:160:GLU:C	2.57	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AB:107:TYR:O	11:AB:107:TYR:HD1	2.02	0.42
4:A4:30:GLU:OE1	4:A4:97:ARG:NH1	2.53	0.42
34:AY:206:ASN:O	34:AY:210:GLU:HG3	2.20	0.42
10:BA:219:C:H2'	10:BA:220:A:H8	1.84	0.42
34:BY:221:LYS:O	34:BY:225:ALA:HB2	2.20	0.42
10:BA:276:U:H2'	10:BA:277:C:H6	1.85	0.42
14:AE:85:THR:CG2	14:AE:86:PRO:N	2.83	0.42
32:AW:23:LEU:O	32:AW:24:GLY:C	2.58	0.42
10:AA:1316:A:H2'	10:AA:1317:A:C8	2.55	0.42
4:B4:97:ARG:HD2	4:B4:97:ARG:HA	1.86	0.42
21:AL:5:LYS:NZ	21:AL:18:HIS:NE2	2.67	0.42
26:BQ:37:ILE:HG12	26:BQ:59:PHE:HE1	1.84	0.42
10:AA:1070:U:H4'	10:AA:1071:U:OP2	2.20	0.42
14:AE:174:PRO:HD3	14:AE:198:TYR:HE1	1.83	0.42
10:AA:1073:G:OP2	21:AL:7:ARG:NH1	2.53	0.42
10:BA:14:C:N3	10:BA:15:U:C5	2.87	0.42
13:BD:16:ARG:O	13:BD:18:PRO:HD3	2.20	0.42
10:BA:1:A:H2'	14:BE:180:VAL:HG12	2.01	0.42
8:A8:68:THR:HA	8:A8:71:GLU:CG	2.49	0.42
8:A8:87:MET:HE2	8:A8:87:MET:HB3	1.87	0.42
10:AA:1511:A:H4'	10:AA:1512:G:C5'	2.48	0.42
16:AG:59:THR:O	16:AG:61:CYS:N	2.53	0.42
34:AY:160:VAL:CG1	34:AY:161:ILE:N	2.70	0.42
10:BA:769:C:C3'	10:BA:769:C:C6	3.02	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
24:AO:5:GLN:HE22	24:AO:126:ARG:NH1	2.18	0.42
10:AA:1340:G:H2'	10:AA:1341:U:C5'	2.37	0.42
10:BA:1366:G:H2'	10:BA:1367:C:O4'	2.20	0.42
10:BA:81:A:O3'	25:BP:117:GLY:HA2	2.19	0.42
10:AA:1213:G:H1'	28:AS:84:HIS:CG	2.55	0.42
9:B9:154:UNK:C	9:B9:157:UNK:HG3	2.49	0.42
13:AD:136:VAL:O	13:AD:139:ASN:O	2.38	0.42
10:AA:1370:U:O4	10:AA:1371:A:C2	2.72	0.42
24:AO:90:LEU:O	24:AO:94:ILE:HG13	2.19	0.42
23:BN:39:ARG:CG	23:BN:40:ARG:H	2.20	0.42
10:AA:873:G:N1	10:AA:895:U:N3	2.67	0.42
10:BA:642:G:C3'	10:BA:643:U:H5'	2.48	0.42
25:BP:3:ILE:HD13	25:BP:37:LYS:HZ3	1.83	0.42
9:A9:152:UNK:CA	9:A9:155:UNK:HG3	2.49	0.42
34:AY:5:ILE:HD13	34:AY:50:PHE:CE2	2.55	0.42
11:BB:186:SER:O	11:BB:187:LYS:C	2.57	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1409:G:C6	10:AA:1410:C:N3	2.87	0.42
10:AA:1173:G:N2	10:AA:1571:C:H2'	2.34	0.42
14:AE:147:ASN:HD22	14:AE:147:ASN:N	2.18	0.42
5:A5:46:ASP:CB	5:A5:47:PRO:HD2	2.28	0.42
10:BA:619:C:H42	10:BA:952:A:H61	1.67	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
29:BT:104:LEU:HD12	29:BT:104:LEU:HA	1.86	0.42
10:BA:747:G:H21	10:BA:755:G:H1	1.68	0.42
33:BX:8:LEU:C	33:BX:10:LYS:N	2.73	0.42
17:AH:64:GLU:O	17:AH:65:LEU:HD23	2.20	0.42
32:BW:70:GLN:HG2	32:BW:78:VAL:HG11	2.01	0.42
16:AG:99:THR:O	16:AG:99:THR:CG2	2.65	0.42
22:AM:115:ARG:O	22:AM:119:ILE:HG13	2.19	0.42
34:BY:55:GLY:CA	34:BY:63:MET:HG3	2.46	0.42
10:AA:731:C:C2'	10:AA:732:U:H5'	2.50	0.42
2:A2:63:PHE:HE2	10:AA:258:A:C4	2.38	0.42
16:AG:96:HIS:HD2	16:AG:97:LEU:HD23	1.85	0.42
2:A2:70:GLU:CG	2:A2:85:LYS:HG2	2.44	0.42
17:AH:112:THR:HG22	17:AH:113:HIS:N	2.35	0.42
10:AA:378:A:O2'	10:AA:379:A:P	2.78	0.42
11:BB:75:ARG:HH12	11:BB:162:ARG:HD3	1.85	0.42
27:BR:44:SER:OG	27:BR:52:MET:HB2	2.19	0.42
11:BB:179:LYS:HE3	11:BB:191:TRP:CH2	2.55	0.42
29:AT:10:VAL:HG22	29:AT:69:TYR:HE2	1.83	0.42
10:AA:1057:G:N2	10:AA:1061:U:C2	2.87	0.42
10:BA:1256:C:OP1	10:BA:1595:C:H4'	2.20	0.42
13:AD:26:ASN:HA	13:AD:29:LYS:CG	2.50	0.42
21:BL:131:LEU:O	21:BL:132:LEU:C	2.57	0.42
19:AJ:22:THR:O	19:AJ:112:ILE:HA	2.20	0.42
11:BB:107:TYR:HD1	11:BB:107:TYR:O	2.01	0.42
15:AF:35:VAL:CG1	15:AF:38:ILE:HD11	2.48	0.42
20:AK:110:PRO:CG	20:AK:111:GLY:N	2.82	0.42
3:B3:33:LEU:HB3	3:B3:37:LEU:HD12	2.01	0.42
8:B8:34:LYS:HD3	8:B8:36:LYS:CB	2.49	0.42
4:A4:72:LEU:HB2	4:A4:82:LYS:O	2.20	0.42
7:A7:32:HIS:CD2	7:A7:35:THR:OG1	2.72	0.42
35:BZ:7:ASN:O	35:BZ:10:SER:HB3	2.19	0.42
32:BW:258:PHE:N	32:BW:258:PHE:CD1	2.87	0.42
7:B7:79:LYS:HA	7:B7:79:LYS:HD3	1.79	0.42
4:A4:28:ARG:HG2	4:A4:28:ARG:H	1.58	0.42
10:BA:1026:C:O5'	10:BA:1026:C:H6	2.03	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:BC:135:LYS:HB3	12:BC:192:MET:CE	2.49	0.42
15:AF:85:LEU:CD2	15:AF:90:ILE:HD11	2.50	0.42
12:BC:151:LYS:HD2	12:BC:152:THR:H	1.84	0.42
11:AB:182:ARG:HD3	11:AB:184:GLU:OE2	2.20	0.42
22:BM:141:SER:O	22:BM:142:GLY:C	2.58	0.42
10:AA:23:A:C2	10:AA:597:U:C5	3.08	0.42
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:588:A:C4'	10:AA:589:G:O5'	2.63	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
22:AM:25:LYS:NZ	22:AM:57:ARG:CG	2.82	0.42
22:AM:1:MET:N	22:AM:3:PHE:HE2	2.18	0.42
16:AG:52:GLN:HE22	16:AG:58:LYS:CE	2.33	0.42
10:AA:85:G:N3	10:AA:444:A:C2	2.87	0.42
10:AA:65:C:OP1	34:AY:136:LYS:NZ	2.52	0.42
34:AY:195:LYS:HA	34:AY:198:LYS:HB2	2.02	0.42
29:AT:42:THR:O	29:AT:43:THR:C	2.57	0.42
29:AT:83:PHE:CZ	29:AT:85:SER:CB	3.02	0.42
5:B5:13:LYS:HG2	10:BA:912:A:H1'	2.01	0.42
6:A6:31:MET:HE2	6:A6:71:ILE:HD11	2.00	0.42
10:BA:1583:A:N3	10:BA:1584:U:C5	2.88	0.42
18:AI:44:GLN:HG3	18:AI:45:ILE:HG13	2.01	0.42
10:BA:1453:C:H2'	10:BA:1454:A:H5'	2.02	0.42
31:AV:17:ILE:HD12	31:AV:57:LEU:HD12	2.01	0.42
8:B8:68:THR:HA	8:B8:71:GLU:HG3	2.01	0.42
10:BA:798:G:H2'	10:BA:799:G:C8	2.47	0.42
34:BY:41:LEU:HD13	34:BY:45:PHE:CD1	2.54	0.42
13:BD:140:LEU:HD12	13:BD:141:VAL:N	2.34	0.42
10:AA:125:U:O2'	10:AA:126:A:H5'	2.20	0.42
2:A2:17:ARG:HG2	2:A2:18:MET:N	2.35	0.42
10:AA:1570:U:C3'	10:AA:1571:C:H5''	2.49	0.42
10:BA:633:U:C2'	10:BA:634:C:OP2	2.66	0.42
10:BA:707:U:H3'	10:BA:707:U:C6	2.55	0.42
26:AQ:83:VAL:HG12	26:AQ:84:ILE:N	2.34	0.42
10:AA:402:C:O2	10:AA:415:G:N2	2.47	0.42
27:BR:49:LYS:HZ1	27:BR:73:THR:HG22	1.85	0.42
10:AA:570:G:O4'	10:AA:574:A:C2	2.73	0.42
10:BA:246:U:H2'	10:BA:246:U:O2	2.19	0.42
10:AA:68:U:H3'	10:AA:69:A:H8	1.85	0.42
10:AA:231:U:H3'	10:AA:232:G:H5''	2.00	0.42
20:BK:95:ILE:HD11	20:BK:126:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A2:75:TRP:HE1	2:A2:77:SER:HB2	1.83	0.42
31:BV:47:ARG:HD2	31:BV:47:ARG:C	2.39	0.42
32:BW:101:PHE:CD2	32:BW:113:LEU:HB3	2.55	0.42
32:BW:47:LEU:HB3	32:BW:48:LEU:HD23	2.01	0.42
34:AY:85:THR:HG22	34:AY:86:SER:N	2.35	0.42
32:AW:42:LEU:CD1	32:AW:47:LEU:HB2	2.49	0.42
27:AR:336:PHE:N	27:AR:336:PHE:CD1	2.87	0.42
13:BD:158:PHE:HD2	13:BD:163:PRO:HG2	1.85	0.42
7:B7:58:ILE:HD13	12:BC:31:SER:CB	2.42	0.42
25:BP:69:GLY:O	25:BP:70:PHE:HD1	2.03	0.42
10:BA:1038:U:H2'	10:BA:1039:C:H6	1.85	0.42
15:AF:73:LEU:N	15:AF:73:LEU:CD2	2.83	0.42
14:BE:45:LEU:O	14:BE:48:ILE:HB	2.20	0.42
30:AU:108:TYR:OH	30:AU:120:ILE:HG21	2.20	0.42
7:A7:54:PHE:O	7:A7:69:ASN:HB3	2.19	0.42
16:BG:24:ILE:CD1	16:BG:30:GLN:HA	2.49	0.42
9:B9:103:LEU:HD11	30:BU:58:LEU:HD23	2.02	0.42
15:AF:84:PHE:O	15:AF:88:GLU:HB2	2.20	0.42
10:BA:1390:G:H5''	23:BN:55:ARG:HD3	2.01	0.42
27:AR:162:SER:HB2	27:AR:193:ASP:HB3	2.02	0.42
10:BA:1687:C:O2'	10:BA:1688:C:H5'	2.20	0.42
10:AA:854:G:H2'	10:AA:921:C:O2	2.19	0.42
26:AQ:52:TYR:CD1	26:AQ:52:TYR:C	2.93	0.42
21:BL:87:PRO:HB2	21:BL:88:MET:H	1.66	0.42
10:AA:888:C:C6	10:AA:888:C:H5'	2.55	0.42
29:BT:76:ILE:H	29:BT:76:ILE:HG13	1.65	0.42
22:AM:123:ARG:CB	22:AM:123:ARG:HH11	2.32	0.42
10:BA:1092:U:O2'	10:BA:1093:A:N7	2.52	0.42
10:AA:1091:G:OP2	10:AA:1092:U:C5	2.72	0.42
10:AA:276:U:H2'	10:AA:277:C:H6	1.85	0.42
33:BX:25:ASP:O	33:BX:26:LYS:C	2.58	0.42
10:BA:520:A:C5	10:BA:521:U:C5	3.07	0.42
20:AK:33:ILE:O	20:AK:97:LEU:HD12	2.19	0.42
15:AF:83:GLN:O	15:AF:87:GLU:HG3	2.19	0.42
10:BA:267:A:H2'	10:BA:268:G:C8	2.55	0.42
24:BO:84:PRO:O	24:BO:85:GLN:C	2.58	0.42
10:AA:1069:U:O4	14:AE:202:GLN:OE1	2.37	0.42
14:BE:153:HIS:CD2	14:BE:175:ARG:HG2	2.55	0.42
22:AM:36:ARG:HB2	22:AM:102:SER:HA	2.01	0.42
10:BA:1475:G:C6	10:BA:1476:A:N6	2.88	0.42
10:AA:1453:C:H2'	10:AA:1454:A:H5'	2.02	0.42
10:AA:133:A:N6	10:AA:169:G:C2'	2.82	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:64:U:O2'	10:AA:65:C:P	2.77	0.42
29:AT:45:VAL:CG1	29:AT:46:ALA:N	2.72	0.42
10:BA:763:U:O3'	10:BA:764:U:H6	2.03	0.42
5:B5:83:SER:C	5:B5:85:VAL:H	2.23	0.42
10:AA:842:U:C6	10:AA:842:U:H3'	2.55	0.42
10:AA:427:A:C6	10:AA:428:A:N1	2.88	0.42
10:AA:46:A:H4'	10:AA:47:C:C5'	2.50	0.42
10:BA:1583:A:O2'	10:BA:1584:U:C5'	2.68	0.42
10:BA:1338:A:C6	10:BA:1339:G:N7	2.88	0.42
10:AA:981:A:H2'	10:AA:983:A:N7	2.35	0.42
34:BY:182:LEU:HG	34:BY:184:THR:HG23	2.01	0.42
10:AA:36:U:O2'	10:AA:753:C:N4	2.50	0.42
10:BA:893:A:H3'	10:BA:894:U:H6	1.84	0.42
12:BC:35:ALA:HB2	12:BC:60:GLN:HG3	2.00	0.42
20:AK:67:GLU:C	20:AK:69:SER:H	2.23	0.42
25:AP:3:ILE:N	25:AP:3:ILE:CD1	2.83	0.42
13:BD:108:ARG:NH2	13:BD:126:ARG:HH22	2.17	0.42
13:BD:41:GLU:O	13:BD:44:ARG:HB3	2.20	0.42
11:BB:180:ILE:CG1	11:BB:185:LEU:HD23	2.49	0.42
22:BM:93:LYS:O	28:BS:16:LYS:HD3	2.19	0.42
20:AK:91:ASN:HD22	20:AK:125:LYS:HD2	1.83	0.42
10:AA:317:G:N2	10:AA:334:C:H1'	2.34	0.42
27:BR:186:TYR:C	27:BR:186:TYR:CD1	2.92	0.42
10:BA:683:A:O2'	10:BA:684:A:H5'	2.20	0.42
2:B2:195:GLU:CB	26:BQ:10:GLN:NE2	2.75	0.42
26:BQ:32:ARG:HD2	26:BQ:48:ILE:O	2.19	0.42
26:BQ:4:GLN:CD	26:BQ:10:GLN:OE1	2.57	0.42
26:BQ:75:ILE:HD11	26:BQ:86:ARG:HD3	2.02	0.42
10:AA:224:G:C2'	10:AA:225:C:C5'	2.97	0.42
14:BE:247:PHE:C	14:BE:249:HIS:N	2.72	0.42
33:AX:8:LEU:C	33:AX:10:LYS:N	2.73	0.42
10:AA:322:G:H2'	10:AA:323:U:C6	2.54	0.42
10:BA:1139:G:C2	10:BA:1140:U:C5	3.08	0.42
2:A2:69:CYS:O	2:A2:86:ILE:CD1	2.68	0.42
10:AA:564:A:H8	10:AA:564:A:O5'	2.03	0.42
32:AW:120:GLU:C	32:AW:122:LYS:N	2.73	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
4:A4:194:LEU:HD23	4:A4:221:VAL:HG21	2.02	0.42
32:AW:101:PHE:HD2	32:AW:113:LEU:HB3	1.85	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AE:27:TRP:HA	14:AE:27:TRP:HE3	1.85	0.42
34:BY:31:LYS:HE2	34:BY:68:MET:CE	2.50	0.42
10:BA:1362:U:H2'	10:BA:1363:U:H6	1.83	0.42
10:BA:470:G:O2'	10:BA:471:C:H5'	2.20	0.42
34:BY:85:THR:HG22	34:BY:86:SER:N	2.35	0.42
25:AP:70:PHE:N	25:AP:70:PHE:CD1	2.88	0.42
22:BM:131:LEU:O	22:BM:132:LYS:C	2.57	0.42
27:AR:274:THR:HG1	27:AR:275:ASP:H	1.67	0.42
10:BA:378:A:H2	10:BA:418:G:OP2	2.03	0.42
10:AA:1031:A:C5	10:AA:1032:U:C4	3.08	0.42
2:B2:112:ILE:HD11	2:B2:174:ALA:CB	2.50	0.42
20:BK:142:ARG:HB3	20:BK:143:GLU:H	1.63	0.42
9:B9:130:ASP:O	9:B9:142:LYS:HG3	2.19	0.42
28:BS:69:LYS:NZ	28:BS:93:GLU:O	2.44	0.42
9:A9:83:LYS:CG	9:A9:84:LYS:H	2.31	0.42
10:BA:1496:A:N6	10:BA:1497:A:C6	2.88	0.42
30:AU:120:ILE:H	30:AU:120:ILE:HG13	1.72	0.42
27:BR:43:ILE:HA	27:BR:52:MET:O	2.20	0.42
7:B7:59:PHE:CD1	7:B7:63:PHE:O	2.73	0.42
6:B6:57:CYS:O	6:B6:58:SER:CB	2.64	0.42
11:BB:109:THR:HG22	11:BB:110:LEU:N	2.35	0.42
25:AP:119:ALA:O	25:AP:122:LYS:N	2.53	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
5:A5:84:ARG:NH1	10:AA:1126:C:P	2.93	0.42
4:B4:95:ASP:O	4:B4:96:GLY:O	2.38	0.42
1:A1:65:ARG:HH21	1:A1:67:LEU:CD1	2.33	0.42
20:BK:110:PRO:CD	20:BK:111:GLY:H	2.33	0.42
17:BH:128:PHE:CD1	17:BH:128:PHE:C	2.92	0.42
8:B8:99:ASN:O	8:B8:100:GLY:C	2.58	0.42
10:BA:384:C:O2'	10:BA:385:C:H5'	2.20	0.42
15:BF:85:LEU:HB3	15:BF:91:ALA:HB3	2.01	0.42
27:BR:173:ILE:O	27:BR:173:ILE:HG22	2.19	0.42
24:BO:128:SER:O	24:BO:132:LYS:HG3	2.20	0.42
24:BO:24:SER:HB3	24:BO:25:PRO:HD2	2.01	0.42
10:AA:1526:G:N3	10:AA:1526:G:O4'	2.53	0.42
29:BT:153:GLN:NE2	29:BT:153:GLN:O	2.53	0.42
27:AR:205:ILE:HG12	27:AR:205:ILE:H	1.65	0.42
7:B7:23:VAL:HG11	12:BC:78:LYS:HB3	2.00	0.42
27:BR:172:PRO:HG3	27:BR:223:PRO:O	2.20	0.42
29:AT:89:ARG:HD2	29:AT:95:LYS:HG2	2.01	0.42
10:AA:597:U:H2'	10:AA:598:A:H8	1.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:A4:207:THR:C	4:A4:209:ASN:H	2.23	0.42
10:BA:359:U:O2'	10:BA:360:U:H5'	2.20	0.42
10:AA:532:G:O2'	10:AA:533:G:O5'	2.36	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
10:AA:81:A:O2'	25:AP:117:GLY:CA	2.68	0.42
4:A4:175:ASN:N	4:A4:175:ASN:ND2	2.67	0.42
10:BA:764:U:O2	10:BA:766:G:C5	2.73	0.42
10:AA:932:G:H2'	10:AA:933:A:O4'	2.20	0.42
10:BA:1263:G:P	10:BA:1263:G:H8	2.43	0.42
24:AO:148:ALA:O	24:AO:152:VAL:HG23	2.20	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
26:AQ:117:LYS:O	26:AQ:120:ASP:OD1	2.38	0.42
22:BM:25:LYS:NZ	22:BM:57:ARG:CG	2.82	0.42
10:AA:876:A:H1'	10:AA:877:G:O4'	2.20	0.42
15:BF:47:ILE:HG23	15:BF:51:TRP:NE1	2.35	0.42
4:A4:66:ARG:HD3	20:AK:50:ARG:HD3	2.01	0.42
13:BD:125:SER:O	13:BD:128:LEU:HB2	2.19	0.42
13:BD:125:SER:O	13:BD:129:ILE:CD1	2.67	0.42
9:A9:154:UNK:C	9:A9:157:UNK:HG3	2.48	0.42
3:A3:70:TYR:OH	3:A3:129:ASP:OD1	2.30	0.42
10:AA:1245:G:C4	10:AA:1401:U:C5	3.08	0.42
10:BA:954:G:H5''	10:BA:955:A:OP1	2.20	0.42
10:AA:1430:C:O4'	28:AS:131:THR:OG1	2.36	0.42
10:BA:1227:G:C2'	10:BA:1228:A:OP2	2.68	0.42
2:B2:93:ALA:O	2:B2:94:THR:C	2.58	0.42
26:BQ:23:LEU:C	26:BQ:25:LYS:N	2.73	0.42
31:BV:20:TYR:N	31:BV:20:TYR:HD1	2.18	0.42
16:BG:41:GLN:H	16:BG:41:GLN:HG2	1.55	0.42
28:AS:63:ASN:HA	28:AS:66:ARG:HB2	2.02	0.42
10:BA:1480:U:O2'	10:BA:1481:A:OP2	2.38	0.42
2:A2:196:LEU:O	2:A2:197:GLU:C	2.58	0.42
4:B4:108:ILE:HG13	4:B4:219:ARG:O	2.19	0.42
8:A8:47:LYS:HA	8:A8:50:VAL:HG23	2.02	0.42
10:BA:1550:U:O2'	10:BA:1551:U:H5'	2.20	0.42
32:BW:185:ILE:HA	32:BW:226:ASN:O	2.19	0.42
32:AW:211:HIS:C	32:AW:212:VAL:HG22	2.40	0.42
27:BR:334:ARG:HB3	27:BR:336:PHE:HE1	1.85	0.42
32:AW:116:LEU:N	32:AW:116:LEU:CD2	2.83	0.42
22:BM:149:GLY:O	22:BM:150:VAL:O	2.38	0.42
32:AW:113:LEU:HD23	32:AW:113:LEU:HA	1.82	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:BB:2:ALA:HB3	11:BB:6:LYS:CD	2.47	0.42
22:AM:88:ARG:NH2	22:AM:112:ASP:OD2	2.49	0.42
12:BC:195:TYR:CD1	12:BC:196:GLU:N	2.88	0.42
10:BA:967:U:H1'	20:BK:140:THR:CG2	2.49	0.42
10:BA:380:G:HO2'	10:BA:381:G:P	2.42	0.42
10:BA:457:G:C5	10:BA:458:U:C5	3.08	0.42
10:AA:1652:A:H5'	10:AA:1653:C:OP2	2.20	0.42
10:BA:512:C:C5	10:BA:513:A:C8	3.08	0.42
7:A7:88:ILE:HG21	7:A7:93:LYS:HD2	2.02	0.42
15:BF:26:ARG:HG3	15:BF:32:PHE:CD2	2.54	0.42
8:B8:26:GLY:HA3	8:B8:29:LYS:CE	2.49	0.42
16:AG:184:TRP:CE2	16:AG:188:LYS:HE3	2.55	0.42
3:B3:152:ARG:HG3	3:B3:154:GLN:NE2	2.33	0.42
10:AA:1535:A:C2'	10:AA:1536:U:H5'	2.49	0.42
13:BD:171:ARG:CG	13:BD:175:LYS:HZ1	2.32	0.42
3:B3:196:LYS:C	3:B3:196:LYS:HD3	2.41	0.42
24:AO:101:ARG:NH1	24:AO:145:ALA:HA	2.28	0.42
35:BZ:78:GLU:O	35:BZ:80:HIS:N	2.53	0.42
10:AA:155:U:C5'	34:AY:83:CYS:HA	2.50	0.42
10:BA:1119:G:N3	10:BA:1605:A:C2	2.88	0.42
10:AA:243:G:C4	26:AQ:39:LEU:HD13	2.54	0.42
10:BA:1191:A:N6	10:BA:1237:G:H1'	2.34	0.42
11:BB:54:LYS:HB2	35:BZ:95:ILE:HD12	2.01	0.42
6:A6:35:CYS:SG	6:A6:36:ALA:N	2.92	0.42
27:BR:34:LYS:O	27:BR:35:GLU:C	2.59	0.42
7:B7:54:PHE:HD2	7:B7:72:GLY:HA2	1.85	0.42
25:AP:123:LEU:HD12	25:AP:123:LEU:N	2.35	0.42
28:BS:15:GLY:CA	28:BS:114:PHE:HE2	2.33	0.42
32:AW:210:CYS:SG	32:AW:227:ILE:HD11	2.59	0.42
4:B4:93:GLU:O	4:B4:100:LYS:HB2	2.19	0.42
14:BE:65:TYR:CD2	14:BE:77:LEU:HB2	2.54	0.42
7:B7:24:LEU:HD12	7:B7:25:LYS:N	2.35	0.42
4:B4:116:MET:HE3	4:B4:215:ASN:HB3	2.00	0.42
10:BA:1345:A:H5'	10:BA:1345:A:C8	2.54	0.42
10:BA:847:A:H4'	24:BO:92:PHE:CZ	2.54	0.42
12:AC:62:ILE:HG13	12:AC:62:ILE:H	1.69	0.42
8:A8:99:ASN:O	8:A8:100:GLY:C	2.59	0.42
25:BP:46:LEU:O	25:BP:47:LYS:HB2	2.19	0.42
13:BD:32:GLY:HA3	33:BX:41:TYR:CD2	2.54	0.42
14:BE:147:ASN:N	14:BE:147:ASN:HD22	2.18	0.42
6:B6:5:LEU:HB2	17:BH:24:GLN:NE2	2.35	0.42
10:BA:1636:C:C2	10:BA:1690:A:C2	3.08	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:604:G:H1'	10:AA:607:G:O2'	2.20	0.41
10:BA:600:A:H4'	10:BA:601:G:H5''	2.01	0.41
14:BE:159:ILE:HD11	14:BE:222:THR:HA	2.02	0.41
10:AA:444:A:H2'	10:AA:445:U:H5'	2.01	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
10:AA:769:C:C6	10:AA:769:C:C3'	3.03	0.41
10:BA:1723:A:H2'	10:BA:1724:U:O4'	2.20	0.41
16:BG:59:THR:C	16:BG:61:CYS:H	2.22	0.41
16:BG:83:LEU:HD23	16:BG:84:CYS:CA	2.49	0.41
27:BR:255:GLY:O	27:BR:256:SER:OG	2.36	0.41
10:BA:72:G:C2	10:BA:76:A:N3	2.88	0.41
9:B9:157:UNK:O	9:B9:161:UNK:HG3	2.20	0.41
10:AA:753:C:C3'	10:AA:754:A:H5'	2.50	0.41
27:AR:181:GLN:HB3	27:AR:182:PRO:CD	2.47	0.41
3:A3:180:ARG:O	3:A3:182:VAL:HG23	2.20	0.41
2:A2:18:MET:HE3	2:A2:19:PRO:O	2.20	0.41
10:AA:1402:C:H5'	38:AA:2394:HOH:O	2.19	0.41
30:BU:76:ARG:HB2	30:BU:100:CYS:O	2.20	0.41
27:AR:153:PHE:CD2	27:AR:203:PHE:CD2	3.08	0.41
27:AR:77:HIS:CG	27:AR:78:PHE:N	2.87	0.41
26:AQ:74:VAL:HG13	26:AQ:83:VAL:HG11	2.01	0.41
10:AA:618:G:H2'	10:AA:619:C:O4'	2.20	0.41
10:BA:570:G:O4'	10:BA:574:A:C2	2.73	0.41
10:AA:551:U:HO2'	10:AA:552:C:P	2.43	0.41
10:AA:1263:G:H2'	10:AA:1264:G:C8	2.55	0.41
10:AA:707:U:C6	10:AA:707:U:C3'	3.03	0.41
12:BC:108:MET:CE	12:BC:139:ILE:HD13	2.50	0.41
32:AW:185:ILE:HD12	32:AW:190:ASN:O	2.20	0.41
16:AG:99:THR:CG2	16:AG:101:ARG:HE	2.33	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
3:A3:47:GLU:CG	3:A3:61:VAL:HG22	2.50	0.41
10:AA:181:G:C3'	10:AA:182:U:C5'	2.96	0.41
27:BR:122:TYR:HE2	27:BR:138:ALA:HB2	1.85	0.41
10:AA:436:C:N3	10:AA:453:G:N2	2.68	0.41
10:AA:866:U:H3'	10:AA:867:U:H5''	2.01	0.41
12:AC:170:TYR:CE2	12:AC:205:VAL:HG21	2.55	0.41
10:BA:433:G:O2'	10:BA:434:G:H5'	2.20	0.41
28:AS:101:VAL:O	28:AS:108:VAL:N	2.46	0.41
35:AZ:34:TRP:CD1	35:AZ:82:ALA:HB1	2.49	0.41
10:BA:418:G:H21	10:BA:451:G:H2'	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:BF:27:ARG:O	15:BF:28:GLY:C	2.58	0.41
10:AA:112:U:H2'	10:AA:113:U:C6	2.55	0.41
15:AF:47:ILE:HD12	15:AF:47:ILE:N	2.34	0.41
19:AJ:55:ARG:HE	19:AJ:87:ARG:HH11	1.67	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
7:B7:51:ASP:HB3	10:BA:1192:C:H5''	2.01	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
22:AM:131:LEU:O	22:AM:132:LYS:C	2.58	0.41
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
25:AP:148:ALA:O	25:AP:149:LYS:C	2.58	0.41
19:BJ:93:CYS:HB3	19:BJ:97:ASP:CB	2.46	0.41
10:BA:123:A:C5	10:BA:173:A:C6	3.08	0.41
7:B7:48:SER:O	7:B7:52:ARG:HG3	2.19	0.41
4:B4:50:VAL:HG12	4:B4:51:THR:H	1.82	0.41
12:AC:36:GLY:O	12:AC:55:ALA:HB1	2.19	0.41
16:AG:183:SER:OG	16:AG:183:SER:O	2.33	0.41
10:BA:159:G:C2'	10:BA:160:C:H5'	2.50	0.41
10:AA:99:A:O2'	10:AA:100:A:P	2.78	0.41
19:BJ:94:ASN:C	19:BJ:96:PRO:HD2	2.40	0.41
24:BO:50:SER:O	24:BO:54:VAL:HG23	2.20	0.41
10:AA:1433:G:C2	10:AA:1434:C:C6	3.08	0.41
10:AA:93:C:O2'	10:AA:94:U:H5'	2.20	0.41
8:B8:34:LYS:HD3	8:B8:36:LYS:HB3	2.01	0.41
10:BA:580:G:H2'	10:BA:581:C:O4'	2.20	0.41
15:BF:85:LEU:HD23	15:BF:90:ILE:HD11	2.01	0.41
18:BI:58:GLY:C	18:BI:60:GLN:H	2.23	0.41
7:A7:35:THR:CG2	7:A7:37:VAL:CG2	2.98	0.41
13:AD:32:GLY:HA3	33:AX:41:TYR:CG	2.55	0.41
11:BB:65:HIS:HA	11:BB:66:PRO:HD3	1.90	0.41
9:A9:101:TYR:CD1	9:A9:101:TYR:N	2.88	0.41
10:AA:287:U:H2'	10:AA:288:C:O4'	2.20	0.41
13:AD:18:PRO:HG2	13:AD:19:TYR:CD1	2.55	0.41
10:BA:5:U:OP2	14:BE:205:THR:CB	2.68	0.41
13:BD:23:ARG:HH21	13:BD:24:LEU:CD2	2.34	0.41
16:AG:45:PRO:HB2	16:AG:68:ILE:CD1	2.50	0.41
10:AA:73:A:H4'	10:AA:74:A:C5'	2.50	0.41
25:AP:117:GLY:O	25:AP:118:LYS:C	2.58	0.41
23:AN:20:CYS:O	23:AN:22:VAL:N	2.53	0.41
25:BP:21:LEU:N	25:BP:21:LEU:CD2	2.77	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1717:C:C3'	10:BA:1718:A:H5'	2.51	0.41
10:BA:1556:G:C2'	10:BA:1557:U:OP2	2.68	0.41
16:BG:46:HIS:CD2	16:BG:81:LYS:HD2	2.55	0.41
1:A1:39:ARG:HD3	1:A1:41:LEU:HD13	2.01	0.41
16:AG:117:ARG:HE	16:AG:189:LYS:NZ	2.17	0.41
20:AK:78:ALA:CB	20:AK:118:ALA:HB3	2.49	0.41
5:A5:77:ILE:CD1	5:A5:77:ILE:H	2.30	0.41
10:AA:1123:G:N2	10:AA:1721:G:H8	2.19	0.41
10:AA:1612:C:H6	10:AA:1612:C:O5'	2.02	0.41
31:BV:59:LYS:HA	31:BV:62:GLN:HG2	2.01	0.41
10:BA:895:U:H4'	20:BK:41:PHE:CD2	2.55	0.41
6:B6:25:ALA:HB1	6:B6:26:PRO:HD2	2.02	0.41
10:AA:660:U:H2'	10:AA:661:G:C8	2.55	0.41
8:B8:45:ILE:HD12	22:BM:1:MET:CE	2.46	0.41
10:BA:1401:U:H1'	19:BJ:70:CYS:SG	2.60	0.41
10:BA:798:G:N2	10:BA:799:G:C4	2.89	0.41
10:BA:670:G:C8	10:BA:670:G:C5'	3.03	0.41
12:BC:11:LYS:HG2	19:BJ:61:LEU:HD21	2.02	0.41
10:BA:750:U:C1'	13:BD:139:ASN:HD21	2.33	0.41
3:A3:132:LEU:O	3:A3:134:SER:N	2.53	0.41
10:AA:929:A:H2'	10:AA:930:A:C5'	2.49	0.41
10:AA:1409:G:O5'	10:AA:1409:G:C8	2.73	0.41
10:AA:626:U:OP2	26:AQ:101:LYS:NZ	2.43	0.41
26:BQ:131:SER:O	26:BQ:132:LYS:C	2.58	0.41
26:BQ:53:VAL:HG12	26:BQ:53:VAL:O	2.20	0.41
10:AA:716:G:O2'	10:AA:717:G:C5'	2.68	0.41
4:B4:37:PRO:O	4:B4:38:ILE:C	2.58	0.41
10:AA:210:A:H3'	10:AA:239:A:H2	1.84	0.41
10:BA:77:G:C5'	10:BA:77:G:C8	2.94	0.41
26:AQ:71:LYS:HB3	26:AQ:157:PHE:HE2	1.82	0.41
10:BA:560:C:O2'	33:BX:10:LYS:HE2	2.20	0.41
17:AH:74:VAL:CG1	17:AH:126:LEU:O	2.68	0.41
2:A2:191:LEU:O	2:A2:192:GLU:HG2	2.20	0.41
32:BW:188:GLY:O	32:BW:191:ILE:CG2	2.68	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:AW:120:GLU:C	32:AW:122:LYS:H	2.24	0.41
12:AC:126:ILE:CG2	12:AC:157:GLN:HG3	2.48	0.41
21:AL:97:GLU:O	21:AL:98:ASN:CB	2.67	0.41
10:BA:1028:G:H2'	10:BA:1029:G:O4'	2.19	0.41
4:B4:190:PHE:CE1	4:B4:194:LEU:CD1	3.03	0.41
14:AE:27:TRP:CH2	14:AE:57:GLU:CD	2.92	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BU:94:ILE:HG21	30:BU:97:VAL:CB	2.41	0.41
10:BA:732:U:H2'	10:BA:733:G:C8	2.55	0.41
13:AD:121:SER:H	13:AD:124:HIS:HB3	1.85	0.41
21:BL:78:ASN:ND2	21:BL:80:LYS:HG2	2.34	0.41
10:AA:1674:A:C6	10:AA:1675:A:N7	2.88	0.41
10:BA:451:G:OP1	25:BP:102:ARG:NH2	2.53	0.41
10:AA:1498:U:H2'	10:AA:1499:A:H5'	2.02	0.41
10:BA:731:C:O2'	17:BH:121:THR:HG23	2.20	0.41
3:B3:50:ILE:HD11	3:B3:169:ALA:HB2	2.02	0.41
9:A9:84:LYS:HA	9:A9:84:LYS:HD2	1.91	0.41
14:AE:45:LEU:HG	14:AE:49:PHE:CE2	2.55	0.41
11:BB:31:ARG:CZ	35:BZ:81:ILE:HG13	2.50	0.41
10:AA:1148:G:C6	10:AA:1149:C:C4	3.08	0.41
11:AB:14:LEU:HD13	11:AB:19:HIS:CE1	2.53	0.41
4:A4:131:LYS:O	4:A4:183:ALA:HA	2.20	0.41
10:BA:996:U:C4	10:BA:997:A:N7	2.88	0.41
28:AS:20:GLU:O	28:AS:24:LEU:HB2	2.20	0.41
10:BA:1018:G:C2'	10:BA:1019:G:H5'	2.50	0.41
33:AX:35:SER:O	33:AX:38:ARG:HB3	2.20	0.41
13:AD:26:ASN:O	13:AD:30:LEU:HB2	2.19	0.41
10:AA:736:A:OP2	32:AW:189:ASN:CB	2.68	0.41
20:BK:61:LYS:HE3	20:BK:76:GLN:HB3	2.01	0.41
34:BY:206:ASN:O	34:BY:210:GLU:HG3	2.20	0.41
32:BW:129:THR:HG22	32:BW:130:ALA:N	2.33	0.41
10:BA:1329:G:H4'	29:BT:134:LYS:HE2	2.03	0.41
4:B4:72:LEU:HB2	4:B4:82:LYS:O	2.19	0.41
32:BW:77:LYS:NZ	32:BW:147:ARG:HH12	2.17	0.41
28:BS:72:CYS:SG	28:BS:79:VAL:HG23	2.60	0.41
11:BB:76:ILE:HG13	11:BB:77:TYR:CD1	2.54	0.41
15:AF:89:GLY:C	15:AF:91:ALA:N	2.72	0.41
34:AY:224:ALA:O	34:AY:227:ALA:HB3	2.19	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
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:771:A:H5''	10:AA:772:A:H5'	2.01	0.41
10:BA:1124:A:H4'	10:BA:1719:A:N1	2.36	0.41
10:AA:631:C:O2	10:AA:838:U:H1'	2.20	0.41
10:BA:1032:U:O4	10:BA:1033:A:C2	2.73	0.41
5:A5:5:ARG:HH21	10:AA:1748:U:H3'	1.84	0.41
27:BR:242:ILE:O	27:BR:242:ILE:CG2	2.69	0.41
10:BA:1213:G:C4	10:BA:1214:A:N7	2.88	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:175:ASN:ND2	4:B4:175:ASN:N	2.67	0.41
10:BA:167:A:O2'	10:BA:168:U:H5'	2.19	0.41
13:AD:108:ARG:NH2	13:AD:126:ARG:HH22	2.16	0.41
10:AA:1360:U:C6	31:AV:3:ARG:HD2	2.54	0.41
17:BH:14:LEU:O	17:BH:17:ALA:CB	2.61	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:1247:A:C2'	12:BC:144:LYS:HE2	2.49	0.41
9:A9:148:UNK:CA	9:A9:151:UNK:HG3	2.50	0.41
21:AL:116:ILE:N	21:AL:116:ILE:HD12	2.35	0.41
11:BB:169:MET:HB3	11:BB:169:MET:HE2	1.85	0.41
10:AA:1400:G:C6	10:AA:1401:U:C4	3.08	0.41
27:AR:133:ILE:HB	27:AR:145:TRP:HB2	2.02	0.41
27:AR:11:VAL:CG2	27:AR:291:VAL:HG11	2.50	0.41
27:AR:47:ARG:C	27:AR:49:LYS:H	2.23	0.41
26:AQ:131:SER:O	26:AQ:132:LYS:C	2.57	0.41
27:BR:97:ASP:C	27:BR:98:LYS:HG3	2.41	0.41
2:B2:176:ILE:HG22	2:B2:177:THR:H	1.85	0.41
2:B2:91:TYR:HD2	2:B2:109:ILE:HD11	1.86	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
26:BQ:130:ILE:HD12	26:BQ:134:VAL:CG1	2.50	0.41
10:AA:214:U:C2	10:AA:811:U:O2'	2.73	0.41
16:BG:96:HIS:HD2	16:BG:97:LEU:HD23	1.85	0.41
10:BA:68:U:H3'	10:BA:69:A:C8	2.55	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
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
32:BW:188:GLY:C	32:BW:190:ASN:H	2.22	0.41
24:AO:21:LYS:HD3	24:AO:23:ARG:NH2	2.36	0.41
14:AE:35:ARG:CZ	14:AE:251:LYS:HB2	2.49	0.41
10:AA:707:U:C6	10:AA:707:U:H3'	2.55	0.41
16:AG:41:GLN:H	16:AG:41:GLN:HG2	1.56	0.41
18:BI:95:HIS:HA	18:BI:99:VAL:HG23	2.01	0.41
18:AI:95:HIS:HA	18:AI:99:VAL:HG23	2.02	0.41
27:AR:119:SER:HB3	27:AR:138:ALA:HB3	2.02	0.41
10:AA:110:A:O2'	26:AQ:64:SER:OG	2.37	0.41
10:BA:512:C:C4	10:BA:527:A:C5	3.08	0.41
35:BZ:47:VAL:CG2	35:BZ:48:GLN:N	2.83	0.41
7:A7:10:ILE:HG13	7:A7:10:ILE:H	1.71	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:B2:36:THR:O	2:B2:104:LEU:N	2.54	0.41
28:BS:63:ASN:HA	28:BS:66:ARG:HB2	2.02	0.41
19:AJ:32:GLU:OE2	19:AJ:55:ARG:NH2	2.53	0.41
34:BY:7:TYR:CZ	34:BY:9:LEU:HD12	2.54	0.41
14:AE:65:TYR:HA	14:AE:66:PRO:HD2	1.91	0.41
10:BA:1605:A:H4'	10:BA:1606:C:O5'	2.20	0.41
10:BA:388:A:C2'	10:BA:389:G:H5'	2.51	0.41
26:AQ:44:PRO:CG	26:AQ:47:ALA:HB2	2.45	0.41
23:AN:7:ARG:HD3	23:AN:7:ARG:HA	1.84	0.41
14:AE:225:TYR:C	14:AE:225:TYR:HD1	2.24	0.41
10:AA:1000:U:H4'	10:AA:1097:A:H61	1.83	0.41
12:BC:36:GLY:O	12:BC:55:ALA:HB1	2.20	0.41
10:AA:826:A:C6	10:AA:827:U:C4	3.08	0.41
27:AR:34:LYS:O	27:AR:35:GLU:C	2.59	0.41
3:A3:13:THR:HB	3:A3:16:GLU:HG3	2.02	0.41
10:AA:1645:C:N4	10:AA:1680:A:H61	2.16	0.41
28:BS:21:LEU:HA	28:BS:24:LEU:CB	2.50	0.41
12:BC:146:LYS:HZ3	12:BC:153:MET:CE	2.33	0.41
7:A7:103:GLU:HB2	12:AC:202:LYS:NZ	2.36	0.41
21:AL:44:GLY:O	21:AL:45:ALA:O	2.38	0.41
10:AA:554:U:H2'	10:AA:555:G:C8	2.55	0.41
2:B2:117:PHE:N	2:B2:117:PHE:CD1	2.89	0.41
3:A3:33:LEU:HB3	3:A3:37:LEU:HD12	2.02	0.41
12:AC:4:THR:O	12:AC:5:THR:C	2.58	0.41
22:BM:123:ARG:HH11	22:BM:123:ARG:CB	2.34	0.41
10:AA:356:G:C2	10:AA:357:A:C8	3.08	0.41
15:AF:89:GLY:C	15:AF:91:ALA:H	2.23	0.41
15:BF:97:THR:HG21	15:BF:99:HIS:CE1	2.56	0.41
30:AU:48:GLU:O	30:AU:50:CYS:N	2.47	0.41
35:AZ:7:ASN:O	35:AZ:10:SER:HB3	2.21	0.41
18:AI:58:GLY:C	18:AI:60:GLN:N	2.74	0.41
10:AA:567:C:OP1	10:AA:1110:A:H3'	2.20	0.41
4:A4:167:VAL:HG12	4:A4:168:ARG:N	2.36	0.41
22:AM:28:THR:CG2	22:AM:58:ALA:HA	2.50	0.41
10:AA:66:A:OP1	34:AY:175:LYS:HD3	2.20	0.41
12:AC:9:ASN:O	12:AC:10:LYS:C	2.58	0.41
6:A6:34:LYS:CB	6:A6:76:ALA:HB3	2.47	0.41
1:A1:42:ILE:HG13	1:A1:63:GLU:OE2	2.20	0.41
16:AG:118:GLU:OE1	16:AG:197:LYS:HE2	2.20	0.41
5:A5:83:SER:C	5:A5:85:VAL:H	2.23	0.41
10:BA:168:U:O2	10:BA:169:G:H1'	2.20	0.41
9:B9:154:UNK:O	9:B9:157:UNK:CG	2.69	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1359:C:H3'	10:AA:1359:C:O2	2.20	0.41
10:BA:1731:G:C3'	10:BA:1732:U:C5'	2.97	0.41
10:BA:1241:U:H4'	10:BA:1242:G:C5'	2.49	0.41
8:B8:43:VAL:HB	22:BM:25:LYS:HE3	2.03	0.41
34:AY:23:LYS:NZ	34:AY:41:LEU:HA	2.35	0.41
3:A3:129:ASP:O	3:A3:132:LEU:HD13	2.20	0.41
11:BB:176:ARG:HG2	11:BB:176:ARG:NH1	2.36	0.41
14:BE:231:TRP:CZ3	35:BZ:8:GLN:HB2	2.39	0.41
27:AR:100:LEU:HD11	27:AR:117:HIS:HD2	1.86	0.41
5:A5:57:LEU:CG	5:A5:58:ALA:H	2.33	0.41
27:BR:113:ARG:HG3	27:BR:113:ARG:O	2.19	0.41
2:B2:200:ILE:O	2:B2:203:LEU:N	2.54	0.41
10:BA:301:C:H2'	10:BA:301:C:O2	2.20	0.41
10:BA:320:G:N2	10:BA:321:U:H1'	2.36	0.41
10:AA:681:G:O2'	10:AA:682:C:H5'	2.20	0.41
10:AA:236:U:H3'	10:AA:237:U:H5''	2.01	0.41
16:BG:99:THR:CG2	16:BG:101:ARG:HE	2.33	0.41
10:BA:192:C:H2'	10:BA:193:C:O5'	2.19	0.41
26:AQ:21:LYS:HZ1	26:AQ:31:VAL:HG21	1.86	0.41
10:BA:1135:A:H2'	10:BA:1136:G:O4'	2.20	0.41
27:BR:209:PHE:HD2	27:BR:240:TRP:CH2	2.37	0.41
10:AA:430:A:HO2'	10:AA:431:U:P	2.43	0.41
4:A4:190:PHE:CE1	4:A4:194:LEU:CD1	3.04	0.41
13:BD:112:ARG:O	13:BD:116:LEU:HG	2.20	0.41
10:AA:573:A:N6	12:AC:148:GLN:NE2	2.63	0.41
10:BA:864:U:H2'	10:BA:865:A:H5'	2.01	0.41
10:BA:383:G:N2	10:BA:397:U:C2	2.89	0.41
10:AA:787:A:H1'	17:AH:105:THR:CG2	2.50	0.41
10:AA:403:A:C2	10:AA:414:G:H1'	2.55	0.41
10:BA:438:A:H5''	32:BW:57:ASN:OD1	2.21	0.41
13:BD:121:SER:OG	13:BD:122:ILE:N	2.54	0.41
10:BA:1299:C:H2'	10:BA:1300:G:O4'	2.19	0.41
10:BA:257:G:H5''	10:BA:258:A:OP2	2.21	0.41
10:AA:512:C:C4	10:AA:527:A:C5	3.09	0.41
9:B9:131:ARG:HD3	9:B9:142:LYS:CB	2.43	0.41
34:AY:8:PRO:HB2	34:AY:9:LEU:HD23	2.02	0.41
5:B5:10:ARG:HD3	5:B5:33:ASP:OD2	2.20	0.41
12:AC:105:VAL:HG11	12:AC:176:ARG:HG2	2.03	0.41
12:BC:171:ILE:CG2	12:BC:173:VAL:HG23	2.51	0.41
11:AB:164:THR:HG21	11:AB:199:TYR:HA	2.02	0.41
10:AA:989:G:H2'	10:AA:990:U:C6	2.56	0.41
11:AB:172:TRP:CE3	11:AB:195:VAL:HG22	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:BN:4:LYS:HD2	23:BN:6:TRP:NE1	2.33	0.41
5:A5:84:ARG:NH1	10:AA:1126:C:OP1	2.53	0.41
10:AA:1644:C:H2'	10:AA:1645:C:H6	1.84	0.41
16:BG:71:LEU:HD23	16:BG:88:VAL:HG23	2.02	0.41
10:AA:99:A:H5'	38:AA:2059:HOH:O	2.20	0.41
21:AL:42:PHE:O	21:AL:43:MET:HB2	2.19	0.41
10:AA:736:A:OP2	32:AW:189:ASN:OD1	2.38	0.41
28:AS:60:LYS:CD	28:AS:64:LYS:HE3	2.49	0.41
30:BU:17:LYS:C	30:BU:17:LYS:HD3	2.41	0.41
15:AF:83:GLN:HG2	15:AF:87:GLU:OE1	2.20	0.41
30:AU:48:GLU:C	30:AU:50:CYS:H	2.23	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
17:BH:23:LYS:H	17:BH:23:LYS:HG3	1.66	0.41
21:BL:5:LYS:NZ	21:BL:18:HIS:NE2	2.66	0.41
21:AL:21:ASP:C	21:AL:23:ARG:H	2.23	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
8:A8:38:LYS:HE2	10:AA:1507:U:O3'	2.20	0.41
10:AA:71:U:C2'	10:AA:72:G:OP2	2.68	0.41
10:AA:761:U:C4	25:AP:7:THR:O	2.73	0.41
5:B5:98:ARG:NH2	10:BA:1752:U:OP1	2.53	0.41
16:BG:62:PRO:O	16:BG:63:ILE:C	2.59	0.41
10:AA:909:C:H5'	10:AA:1752:U:O4	2.20	0.41
10:AA:752:C:H6	10:AA:752:C:O5'	2.04	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
10:BA:876:A:H5'	20:BK:60:MET:CE	2.50	0.41
10:BA:840:A:O2'	10:BA:841:A:H5''	2.20	0.41
17:BH:25:VAL:O	17:BH:62:VAL:HA	2.21	0.41
8:B8:69:VAL:CG1	8:B8:80:ALA:HB1	2.46	0.41
10:BA:1247:A:N6	10:BA:1409:G:C6	2.88	0.41
10:BA:1409:G:O5'	10:BA:1409:G:C8	2.73	0.41
15:BF:44:TYR:HB2	15:BF:61:ILE:HD13	2.01	0.41
10:BA:750:U:H3'	10:BA:750:U:C6	2.56	0.41
14:AE:230:PHE:CB	35:AZ:13:MET:HE2	2.48	0.41
12:AC:228:ARG:HD3	27:AR:207:TYR:OH	2.21	0.41
27:AR:95:SER:OG	27:AR:96:TRP:N	2.54	0.41
10:BA:1314:C:H5''	27:BR:113:ARG:CZ	2.50	0.41
27:BR:168:VAL:HG23	27:BR:168:VAL:O	2.20	0.41
27:BR:187:PHE:O	27:BR:199:TRP:HD1	2.03	0.41
27:BR:97:ASP:O	27:BR:98:LYS:CB	2.68	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:478:G:C3'	10:AA:479:G:O4'	2.68	0.41
10:AA:229:A:N6	10:AA:230:A:C6	2.89	0.41
16:BG:13:LEU:C	16:BG:15:GLY:H	2.23	0.41
10:BA:421:G:C2'	10:BA:422:G:H5''	2.50	0.41
10:BA:752:C:H6	10:BA:752:C:O5'	2.03	0.41
29:AT:75:GLY:C	29:AT:79:LEU:HD12	2.41	0.41
2:A2:192:GLU:O	2:A2:196:LEU:HB2	2.21	0.41
10:AA:320:G:N2	10:AA:321:U:H1'	2.34	0.41
10:BA:1261:U:C6	10:BA:1261:U:C3'	3.03	0.41
10:BA:1260:G:O2'	10:BA:1261:U:H5'	2.20	0.41
32:BW:108:LYS:CB	32:BW:110:ARG:HE	2.25	0.41
32:BW:89:MET:O	32:BW:124:LYS:HG3	2.21	0.41
32:AW:72:VAL:CG2	32:AW:79:ARG:O	2.69	0.41
17:AH:47:ILE:CG2	17:AH:69:ILE:HD11	2.50	0.41
10:AA:967:U:H1'	20:AK:140:THR:HG22	2.02	0.41
14:AE:27:TRP:HA	14:AE:27:TRP:CE3	2.54	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
34:BY:87:ARG:HA	34:BY:87:ARG:HD3	1.83	0.41
10:AA:413:C:H4'	10:AA:414:G:H5'	2.03	0.41
32:BW:9:LEU:HD21	32:BW:14:ALA:HB2	2.03	0.41
11:AB:32:TYR:N	11:AB:32:TYR:CD1	2.88	0.41
8:B8:30:TRP:O	8:B8:30:TRP:CD1	2.74	0.41
3:B3:154:GLN:C	3:B3:155:LEU:HD23	2.41	0.41
15:AF:44:TYR:O	15:AF:48:MET:N	2.44	0.41
16:BG:146:ILE:O	16:BG:147:TYR:C	2.58	0.41
24:AO:144:ASN:OD1	24:AO:145:ALA:N	2.54	0.41
12:BC:45:THR:HB	12:BC:48:LYS:H	1.85	0.41
13:AD:64:PRO:HA	13:AD:69:ARG:NH1	2.35	0.41
10:BA:990:U:O2'	10:BA:991:A:H5'	2.20	0.41
22:AM:86:LEU:HA	22:AM:99:GLN:OE1	2.20	0.41
33:BX:39:ILE:HA	33:BX:42:ASN:HD22	1.85	0.41
10:AA:100:A:HO2'	10:AA:101:A:P	2.44	0.41
27:BR:162:SER:HB2	27:BR:193:ASP:HB3	2.01	0.41
5:B5:24:THR:HG21	5:B5:73:LEU:HD12	2.02	0.41
17:BH:111:LEU:HB3	17:BH:115:GLU:HB2	2.03	0.41
14:AE:216:TYR:HD1	14:AE:217:TYR:CD1	2.38	0.41
27:AR:287:SER:O	27:AR:288:LYS:HD3	2.20	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:AR:192:TRP:O	27:AR:215:ASN:HA	2.20	0.41
34:BY:126:THR:O	34:BY:126:THR:HG22	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1725:C:O2	10:BA:1743:A:C2	2.73	0.41
10:AA:607:G:HO2'	10:AA:608:C:P	2.41	0.41
10:AA:603:U:O4	21:AL:25:ALA:C	2.58	0.41
16:AG:72:MET:HB3	16:AG:84:CYS:SG	2.61	0.41
10:AA:143:C:H2'	10:AA:144:C:C6	2.54	0.41
10:AA:141:A:C6	10:AA:162:A:N6	2.88	0.41
18:BI:3:GLN:O	18:BI:4:GLN:HG3	2.20	0.41
27:BR:183:PHE:O	27:BR:183:PHE:CD1	2.73	0.41
10:BA:1413:C:C4'	10:BA:1418:C:N4	2.83	0.41
34:BY:195:LYS:HA	34:BY:198:LYS:HB2	2.03	0.41
9:A9:138:HIS:NE2	10:AA:1206:A:H4'	2.36	0.41
10:BA:1506:G:O2'	10:BA:1507:U:OP2	2.28	0.41
22:BM:32:LEU:O	22:BM:35:ILE:HG13	2.20	0.41
22:BM:28:THR:CG2	22:BM:58:ALA:HA	2.49	0.41
34:BY:5:ILE:HD13	34:BY:50:PHE:CE2	2.55	0.41
12:BC:14:PHE:CE1	19:BJ:24:THR:HG22	2.55	0.41
3:A3:110:SER:C	10:AA:793:G:O2'	2.58	0.41
14:BE:228:PRO:O	14:BE:230:PHE:N	2.53	0.41
10:AA:1001:A:O2'	10:AA:1002:U:O4'	2.38	0.41
30:BU:50:CYS:SG	30:BU:55:TYR:CG	3.12	0.41
2:A2:25:ARG:CZ	10:AA:376:A:OP1	2.69	0.41
27:AR:161:HIS:HB3	27:AR:197:LYS:CE	2.48	0.41
27:AR:291:VAL:HG12	27:AR:292:CYS:H	1.86	0.41
5:A5:45:VAL:CG1	5:A5:49:SER:OG	2.68	0.41
20:AK:84:ARG:CZ	20:AK:88:LEU:HD21	2.50	0.41
10:BA:616:A:O2'	10:BA:617:A:O5'	2.39	0.41
2:A2:10:LYS:CE	10:AA:329:A:H5''	2.51	0.41
10:AA:316:G:C2'	10:AA:317:G:H5'	2.49	0.41
10:BA:337:G:H5'	26:BQ:78:LYS:HD2	2.02	0.41
26:BQ:20:LYS:H	26:BQ:20:LYS:HG3	1.61	0.41
10:BA:494:A:C8	10:BA:495:C:O4'	2.73	0.41
10:AA:109:U:H5'	26:AQ:66:ARG:CD	2.48	0.41
26:AQ:128:ARG:NH1	26:AQ:128:ARG:HG2	2.35	0.41
10:BA:1467:U:H2'	10:BA:1468:G:C8	2.56	0.41
10:BA:564:A:O5'	10:BA:564:A:H8	2.04	0.41
2:A2:176:ILE:HG22	2:A2:177:THR:H	1.84	0.41
10:AA:246:U:O2	10:AA:246:U:H2'	2.20	0.41
26:AQ:32:ARG:HG2	26:AQ:33:TYR:N	2.36	0.41
10:AA:191:A:C4	10:AA:192:C:C5	3.09	0.41
10:AA:1480:U:O2'	10:AA:1481:A:OP2	2.38	0.41
35:BZ:96:GLN:O	35:BZ:97:GLU:C	2.58	0.41
10:BA:899:U:O2'	10:BA:900:A:H5'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:781:C:H5'	10:BA:782:A:OP2	2.19	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
35:AZ:79:ALA:HA	35:AZ:82:ALA:HB3	2.01	0.41
15:AF:26:ARG:HG3	15:AF:32:PHE:CD2	2.56	0.41
10:BA:1253:G:O2'	10:BA:1254:U:H5'	2.20	0.41
10:BA:787:A:C1'	17:BH:106:THR:O	2.68	0.41
15:AF:71:ILE:CG2	15:AF:73:LEU:HD22	2.50	0.41
10:BA:1064:A:C4	10:BA:1066:G:C8	3.08	0.41
27:AR:85:SER:O	27:AR:86:GLN:C	2.58	0.41
10:BA:1119:G:C2	10:BA:1605:A:C2	3.08	0.41
10:BA:1729:A:C2	10:BA:1739:G:C2	3.08	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
8:B8:81:ARG:HH22	10:BA:1505:C:H5	1.69	0.41
10:AA:1590:C:O2'	10:AA:1591:C:C5'	2.69	0.41
16:BG:177:LYS:O	16:BG:178:ASN:CB	2.68	0.41
10:AA:1018:G:H2'	10:AA:1019:G:C5'	2.51	0.41
1:B1:65:ARG:HH21	1:B1:67:LEU:CD1	2.33	0.41
10:AA:1398:A:N1	12:AC:149:ARG:HG2	2.36	0.41
10:AA:1217:G:O2'	10:AA:1218:C:OP2	2.33	0.41
10:BA:1345:A:H5'	10:BA:1345:A:H8	1.85	0.41
20:AK:61:LYS:CE	20:AK:76:GLN:HB3	2.51	0.41
2:B2:73:PHE:CD1	2:B2:73:PHE:N	2.89	0.41
10:AA:357:A:C2	10:AA:358:A:N7	2.89	0.41
27:BR:31:PHE:HD1	27:BR:31:PHE:N	2.18	0.41
7:B7:82:ILE:HG22	7:B7:82:ILE:O	2.20	0.41
12:BC:135:LYS:HB3	12:BC:192:MET:HE2	2.02	0.41
27:AR:172:PRO:HG3	27:AR:223:PRO:O	2.21	0.41
10:AA:1130:A:C2	10:AA:1132:A:O4'	2.74	0.41
23:AN:52:VAL:HG21	23:AN:54:TYR:CE2	2.56	0.41
29:AT:153:GLN:NE2	29:AT:153:GLN:O	2.53	0.41
16:AG:147:TYR:CD1	16:AG:147:TYR:C	2.94	0.41
9:A9:163:UNK:O	9:A9:166:UNK:HG3	2.20	0.41
14:AE:145:TRP:CE3	14:AE:173:ALA:O	2.70	0.41
14:BE:145:TRP:HE1	17:BH:97:ARG:HG2	1.84	0.41
10:AA:537:A:H2'	10:AA:538:A:OP2	2.20	0.41
8:A8:68:THR:HA	8:A8:71:GLU:HG3	2.01	0.41
22:AM:81:ILE:CA	29:AT:40:TRP:CZ2	3.02	0.41
10:AA:770:G:H2'	10:AA:771:A:N7	2.26	0.41
10:BA:611:U:H2'	10:BA:612:U:C6	2.56	0.41
6:A6:17:ASN:HB2	10:AA:1043:U:O3'	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:844:G:C2	10:AA:943:U:O4	2.73	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:1453:C:C2'	10:BA:1454:A:H5'	2.50	0.41
10:AA:908:A:O3'	10:AA:1752:U:O4	2.39	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:AA:638:U:O2'	10:AA:639:C:H5'	2.20	0.41
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:AA:878:A:C5'	20:AK:39:ASP:OD2	2.69	0.41
1:B1:63:GLU:O	1:B1:63:GLU:CG	2.69	0.41
12:BC:10:LYS:HZ2	19:BJ:86:LYS:HZ1	1.66	0.41
9:A9:128:HIS:CE1	10:AA:1222:U:H1'	2.53	0.41
10:AA:1252:C:C2	10:AA:1400:G:N2	2.89	0.41
10:AA:1404:G:H2'	10:AA:1405:U:O4'	2.20	0.41
30:AU:68:ILE:HG22	30:AU:69:LYS:O	2.19	0.41
20:BK:54:VAL:CG1	20:BK:81:VAL:HG22	2.51	0.41
10:AA:312:C:O2'	10:AA:313:G:P	2.78	0.41
10:BA:716:G:O2'	10:BA:717:G:C5'	2.68	0.41
2:B2:15:GLY:O	10:BA:309:U:H4'	2.20	0.41
10:BA:478:G:N2	10:BA:495:C:C2	2.89	0.41
10:AA:1550:U:O2'	10:AA:1551:U:H5'	2.20	0.41
34:BY:163:ARG:O	34:BY:163:ARG:HG3	2.20	0.41
13:BD:5:TYR:C	13:BD:6:ILE:O	2.56	0.41
10:AA:551:U:H2'	10:AA:552:C:O5'	2.21	0.41
2:A2:92:ASN:HB3	2:A2:95:ASN:O	2.21	0.41
22:AM:6:GLU:O	22:AM:7:LYS:O	2.38	0.41
32:BW:183:CYS:HA	32:BW:230:LEU:H	1.86	0.41
32:BW:73:PHE:CZ	32:BW:78:VAL:HG22	2.55	0.41
32:AW:143:THR:O	32:AW:146:SER:N	2.53	0.41
13:AD:45:VAL:HG21	13:AD:105:MET:HE1	2.02	0.41
2:B2:56:VAL:CG2	10:BA:324:A:H5''	2.51	0.41
11:BB:45:ASN:OD1	11:BB:47:GLU:N	2.54	0.41
13:BD:121:SER:H	13:BD:124:HIS:HB3	1.86	0.41
30:BU:95:LYS:O	30:BU:96:LYS:HB2	2.20	0.41
10:BA:55:U:OP1	10:BA:450:G:H4'	2.21	0.41
16:BG:184:TRP:CE2	16:BG:188:LYS:HE3	2.55	0.41
35:BZ:37:LYS:HD3	35:BZ:70:CYS:HB2	2.02	0.41
10:BA:1166:A:H2'	10:BA:1167:C:C5'	2.50	0.41
1:B1:46:LYS:HE3	16:BG:140:ARG:NE	2.35	0.41
10:BA:1542:A:H2'	10:BA:1543:C:H5'	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1542:A:H2'	10:BA:1543:C:C5'	2.50	0.41
7:B7:65:TYR:N	7:B7:65:TYR:CD1	2.89	0.41
11:BB:50:TRP:CZ2	11:BB:54:LYS:HE3	2.55	0.41
6:A6:54:CYS:CB	6:A6:61:LEU:HD21	2.50	0.41
20:BK:104:GLU:O	20:BK:106:LYS:N	2.53	0.41
21:AL:53:THR:HB	21:AL:72:ARG:O	2.21	0.41
6:A6:53:ILE:HG22	6:A6:58:SER:HA	2.02	0.41
12:AC:175:VAL:CG1	12:AC:188:LYS:HG2	2.50	0.41
16:BG:175:ALA:O	16:BG:186:ILE:HD11	2.20	0.41
10:BA:1644:C:H2'	10:BA:1645:C:H6	1.84	0.41
21:AL:129:ILE:O	21:AL:130:SER:C	2.59	0.41
19:AJ:37:GLU:HA	19:AJ:40:SER:HB3	2.03	0.41
32:BW:215:ALA:C	32:BW:217:GLY:N	2.72	0.41
10:AA:1345:A:H8	10:AA:1345:A:H5'	1.86	0.41
13:AD:83:TYR:CE2	13:AD:147:MET:HB3	2.56	0.41
11:AB:148:SER:HA	11:AB:149:PRO:HD3	1.91	0.41
26:AQ:54:ASP:HB2	26:AQ:81:ARG:NH1	2.36	0.41
4:B4:69:GLU:CD	4:B4:69:GLU:O	2.58	0.41
34:BY:11:GLY:HA3	34:BY:129:LEU:HD12	2.02	0.41
4:B4:197:GLU:H	4:B4:197:GLU:HG2	1.50	0.41
3:A3:194:THR:O	3:A3:195:PHE:C	2.56	0.41
18:AI:81:TYR:O	18:AI:84:ARG:HB3	2.21	0.41
10:AA:400:U:H5'	10:AA:1685:A:O2'	2.20	0.41
11:AB:147:ASP:OD1	11:AB:147:ASP:O	2.38	0.41
10:AA:1238:U:O2	10:AA:1238:U:H2'	2.21	0.41
10:AA:620:U:O2'	10:AA:621:C:H5'	2.21	0.41
24:AO:114:LYS:O	24:AO:118:ILE:HG13	2.20	0.41
27:AR:38:ASP:OD2	27:AR:318:ASN:ND2	2.53	0.41
32:BW:202:LYS:HA	32:BW:208:ASP:HB3	2.03	0.41
11:AB:34:SER:OG	11:AB:35:HIS:N	2.54	0.41
10:AA:3:C:C4'	10:AA:3:C:C6	3.04	0.41
4:A4:207:THR:O	4:A4:209:ASN:N	2.54	0.41
10:BA:363:G:H2'	10:BA:364:G:O5'	2.20	0.41
10:BA:604:G:C2'	10:BA:605:U:OP2	2.68	0.41
10:AA:1454:A:N6	10:AA:1455:A:N6	2.69	0.41
18:AI:15:LYS:O	18:AI:16:LYS:C	2.58	0.41
10:AA:65:C:H3'	10:AA:65:C:C6	2.56	0.41
10:AA:262:G:P	34:AY:194:TYR:HH	2.39	0.41
22:AM:84:TRP:CZ3	22:AM:85:LEU:HD21	2.56	0.41
10:AA:1487:A:OP2	12:AC:10:LYS:CD	2.68	0.41
25:BP:18:ARG:NH2	25:BP:20:GLN:HE21	2.18	0.41
10:BA:1121:C:O2'	10:BA:1718:A:N6	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1033:A:C2	10:BA:1034:A:N3	2.89	0.41
16:BG:52:GLN:HG3	16:BG:52:GLN:O	2.20	0.41
10:BA:1452:G:OP1	29:BT:66:ARG:NH1	2.53	0.41
25:BP:117:GLY:O	25:BP:118:LYS:C	2.58	0.41
10:AA:1362:U:H2'	10:AA:1363:U:H6	1.86	0.41
10:BA:841:A:N3	10:BA:841:A:H2'	2.35	0.41
17:BH:30:VAL:O	17:BH:59:LYS:HE2	2.21	0.41
10:AA:1202:A:N6	10:AA:1227:G:H1'	2.36	0.41
8:B8:92:LEU:HG	8:B8:93:VAL:HG23	2.01	0.41
10:BA:834:A:O2'	10:BA:835:U:OP1	2.35	0.41
23:BN:22:VAL:C	23:BN:24:GLY:N	2.74	0.41
13:BD:110:GLN:HE22	13:BD:125:SER:CB	2.34	0.41
13:BD:37:LYS:O	33:BX:37:LYS:HG3	2.21	0.41
14:AE:231:TRP:HH2	17:AH:66:ILE:HD13	1.86	0.41
10:AA:1245:G:C2'	10:AA:1246:C:OP2	2.68	0.41
14:BE:228:PRO:HD2	17:BH:99:PHE:CE2	2.56	0.41
30:BU:69:LYS:CB	30:BU:124:LEU:HD13	2.43	0.41
27:AR:82:LEU:HD23	27:AR:93:SER:HA	2.03	0.41
10:AA:210:A:C5	10:AA:238:G:N2	2.88	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
10:AA:297:U:OP1	26:AQ:104:ARG:CD	2.66	0.41
29:AT:76:ILE:O	29:AT:80:LYS:HB2	2.21	0.41
7:A7:89:PRO:O	7:A7:92:PHE:N	2.37	0.41
10:AA:343:C:C2'	10:AA:344:A:OP2	2.68	0.41
11:BB:141:ILE:HG23	11:BB:155:VAL:HB	2.02	0.41
33:AX:62:TRP:C	33:AX:64:ALA:H	2.23	0.41
2:A2:41:GLN:O	2:A2:45:ILE:HD11	2.21	0.41
27:BR:241:ASP:HB2	27:BR:249:GLN:NE2	2.36	0.41
10:BA:1302:G:H2'	10:BA:1303:A:H5'	2.02	0.41
32:AW:185:ILE:HA	32:AW:226:ASN:O	2.21	0.41
32:BW:120:GLU:C	32:BW:122:LYS:N	2.74	0.41
13:BD:106:GLU:HG3	13:BD:111:THR:CG2	2.50	0.41
15:AF:34:THR:HG23	15:AF:70:VAL:CG1	2.51	0.41
10:BA:433:G:C2	10:BA:456:A:N3	2.89	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
12:AC:163:THR:HG22	12:AC:164:GLY:N	2.35	0.41
29:AT:32:LEU:HB2	29:AT:33:SER:H	1.71	0.41
2:A2:112:ILE:HG22	2:A2:113:ASP:H	1.85	0.41
20:BK:82:VAL:HG12	20:BK:86:LYS:HE3	2.02	0.41
14:AE:48:ILE:HG23	14:AE:53:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BZ:87:LEU:O	35:BZ:92:LEU:N	2.53	0.41
7:A7:82:ILE:HG22	7:A7:82:ILE:O	2.20	0.41
12:BC:214:ILE:HD12	31:BV:40:GLN:OE1	2.21	0.41
7:A7:65:TYR:CD1	7:A7:65:TYR:N	2.88	0.41
20:BK:100:LYS:O	20:BK:104:GLU:HB2	2.20	0.41
25:AP:123:LEU:HD12	25:AP:123:LEU:H	1.84	0.41
10:AA:1075:U:O2'	10:AA:1076:U:H5'	2.21	0.41
32:BW:210:CYS:SG	32:BW:227:ILE:CD1	3.09	0.41
28:BS:29:ASN:O	28:BS:31:GLU:HG2	2.19	0.41
7:A7:91:THR:HG21	12:AC:71:GLU:HG2	2.02	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
11:AB:52:LYS:HD3	35:AZ:93:TYR:HE1	1.85	0.41
24:BO:48:THR:HG22	24:BO:50:SER:H	1.85	0.41
19:AJ:94:ASN:C	19:AJ:96:PRO:HD2	2.41	0.41
17:BH:38:LEU:HD23	17:BH:38:LEU:HA	1.70	0.41
16:AG:192:ILE:O	16:AG:196:ALA:CB	2.68	0.41
26:BQ:107:PRO:O	26:BQ:107:PRO:HG2	2.21	0.41
9:A9:105:ASN:ND2	9:A9:108:LYS:HE3	2.35	0.41
26:AQ:112:PRO:O	26:AQ:113:CYS:C	2.59	0.41
23:BN:46:ALA:N	23:BN:47:PRO:HD2	2.35	0.41
10:BA:122:A:N7	34:BY:201:ARG:CZ	2.83	0.41
34:AY:19:ASP:O	34:AY:20:ASP:C	2.58	0.41
7:B7:94:ALA:HB3	12:BC:70:LYS:HZ3	1.85	0.41
26:AQ:57:CYS:SG	26:AQ:58:PRO:HD2	2.61	0.41
22:BM:97:ASN:C	22:BM:98:TYR:CD1	2.94	0.41
10:AA:16:G:N2	10:AA:17:C:C2	2.89	0.41
14:AE:184:ILE:HG22	14:AE:212:LEU:CD2	2.50	0.41
26:BQ:96:TYR:O	26:BQ:98:ARG:HG2	2.21	0.41
10:AA:538:A:O2'	10:AA:539:U:O5'	2.38	0.41
10:AA:535:A:O2'	10:AA:536:C:OP2	2.35	0.41
8:A8:38:LYS:NZ	10:AA:1507:U:H3'	2.36	0.41
22:AM:32:LEU:O	22:AM:35:ILE:HG13	2.20	0.41
8:A8:72:LYS:C	8:A8:73:LEU:HD23	2.41	0.41
10:AA:1442:A:H2	10:AA:1445:G:N3	2.18	0.41
22:BM:81:ILE:N	29:BT:40:TRP:CZ2	2.89	0.41
29:BT:42:THR:O	29:BT:43:THR:C	2.59	0.41
10:AA:1579:G:C8	18:AI:126:MET:HE3	2.56	0.41
10:AA:1582:G:C5'	16:AG:81:LYS:HB3	2.51	0.41
10:AA:71:U:O2'	10:AA:72:G:OP1	2.38	0.41
10:AA:280:U:H2'	10:AA:281:A:C8	2.56	0.41
34:AY:157:LYS:O	34:AY:160:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:AY:136:LYS:HG3	34:AY:178:LYS:O	2.20	0.41
10:AA:1475:G:C6	10:AA:1476:A:N6	2.88	0.41
5:B5:77:ILE:O	5:B5:78:SER:C	2.59	0.41
5:B5:4:LYS:HE3	5:B5:94:ARG:NH1	2.36	0.41
10:BA:1123:G:C2	10:BA:1721:G:H8	2.39	0.41
6:A6:18:LYS:HZ3	24:AO:16:SER:N	2.19	0.41
10:AA:843:A:C6	10:AA:942:U:C4	3.09	0.41
4:B4:122:THR:HB	4:B4:146:THR:OG1	2.21	0.41
10:BA:1583:A:C2	10:BA:1584:U:O4	2.74	0.41
16:BG:72:MET:HB3	16:BG:84:CYS:SG	2.61	0.41
10:BA:1376:A:O2'	10:BA:1377:A:H5'	2.21	0.41
10:AA:1601:G:H4'	10:AA:1747:A:OP1	2.20	0.41
27:BR:235:LYS:HZ1	27:BR:256:SER:H	1.63	0.41
31:BV:10:LYS:HD3	31:BV:53:PHE:CZ	2.55	0.41
10:BA:1290:G:N2	10:BA:1291:U:C2	2.89	0.41
10:BA:135:A:H2	34:BY:183:ILE:HG23	1.86	0.41
34:BY:147:LEU:C	34:BY:151:ASP:OD2	2.60	0.41
10:AA:754:A:H2'	10:AA:755:G:N7	2.32	0.41
13:AD:110:GLN:HE22	13:AD:125:SER:CB	2.34	0.41
10:BA:840:A:N6	24:BO:72:LYS:HZ3	2.19	0.41
17:BH:4:VAL:O	17:BH:5:ASN:C	2.58	0.41
10:BA:842:U:C6	10:BA:842:U:H3'	2.56	0.41
10:BA:1173:G:O2'	10:BA:1174:A:OP1	2.38	0.41
10:BA:1535:A:C2'	10:BA:1536:U:H5'	2.50	0.41
10:BA:1158:U:H5'	10:BA:1181:C:H1'	2.03	0.41
10:BA:1507:U:H3'	10:BA:1507:U:O2	2.21	0.41
10:BA:799:G:C6	10:BA:835:U:O2	2.73	0.41
5:A5:30:VAL:HG11	5:A5:35:ALA:CB	2.27	0.41
10:AA:893:A:H3'	10:AA:894:U:H6	1.86	0.41
8:A8:31:THR:HG23	15:BF:42:PHE:CA	2.51	0.41
8:A8:30:TRP:O	8:A8:30:TRP:CD1	2.74	0.41
9:A9:146:UNK:O	9:A9:149:UNK:HG3	2.18	0.41
30:AU:32:VAL:HG12	30:AU:36:ILE:CD1	2.51	0.41
16:AG:39:LYS:HE2	18:AI:113:GLN:O	2.21	0.41
4:B4:31:TRP:CZ2	4:B4:49:LEU:HD13	2.56	0.41
7:B7:9:LYS:HG2	7:B7:13:TYR:CE1	2.55	0.41
30:BU:121:GLU:HA	30:BU:124:LEU:HD11	2.03	0.41
30:BU:20:ASN:ND2	30:BU:20:ASN:O	2.53	0.41
3:B3:132:LEU:HD12	3:B3:132:LEU:HA	1.86	0.41
30:BU:103:LEU:HD23	30:BU:103:LEU:N	2.36	0.41
10:BA:1199:G:H21	30:BU:27:LYS:HB2	1.85	0.41
6:B6:9:ILE:H	6:B6:9:ILE:HG13	1.73	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:A4:31:TRP:CE3	4:A4:48:THR:O	2.74	0.41
26:AQ:56:LYS:HD3	26:AQ:130:ILE:CG2	2.51	0.41
10:AA:476:U:H2'	10:AA:477:G:H8	1.84	0.41
26:BQ:18:ASN:HB3	26:BQ:19:SER:H	1.46	0.41
26:BQ:17:LEU:HD13	26:BQ:21:LYS:HE2	2.02	0.41
10:BA:494:A:H2	33:BX:48:HIS:N	2.19	0.41
10:BA:238:G:N2	10:BA:239:A:C1'	2.84	0.41
4:B4:134:ASP:OD1	4:B4:134:ASP:N	2.54	0.41
10:AA:296:C:H2'	10:AA:297:U:C6	2.56	0.41
10:BA:421:G:H2'	10:BA:422:G:H5''	2.03	0.41
10:BA:747:G:P	13:BD:78:ARG:NH2	2.94	0.41
7:A7:89:PRO:HG2	7:A7:92:PHE:CG	2.56	0.41
10:BA:181:G:N2	10:BA:194:G:N3	2.69	0.41
17:AH:25:VAL:O	17:AH:62:VAL:HA	2.20	0.41
3:A3:142:ARG:NH2	17:AH:51:GLU:HB2	2.35	0.41
3:A3:141:ILE:HG22	3:A3:142:ARG:N	2.35	0.41
17:AH:25:VAL:HG12	17:AH:26:LEU:N	2.36	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
26:AQ:48:ILE:H	26:AQ:48:ILE:HG13	1.61	0.41
26:AQ:31:VAL:CG1	26:AQ:32:ARG:N	2.83	0.41
10:AA:1292:U:O2'	10:AA:1293:A:H5'	2.21	0.41
14:AE:239:LEU:O	14:AE:241:PHE:N	2.54	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
32:BW:102:ARG:HB2	32:BW:114:LYS:HB3	2.03	0.41
27:AR:219:LEU:HA	27:AR:229:ALA:O	2.21	0.41
32:AW:161:THR:CB	32:AW:229:VAL:HB	2.51	0.41
10:AA:190:G:H2'	10:AA:191:A:C8	2.52	0.41
10:AA:459:G:O2'	10:AA:461:C:OP1	2.38	0.41
32:AW:42:LEU:HD13	32:AW:42:LEU:C	2.40	0.41
26:BQ:87:ARG:CD	26:BQ:104:ARG:CZ	2.98	0.41
15:BF:36:GLU:HB3	15:BF:70:VAL:CG2	2.41	0.41
34:BY:68:MET:HA	34:BY:100:CYS:HB3	2.03	0.41
31:BV:98:ILE:HD12	31:BV:118:VAL:HG22	2.03	0.41
10:BA:900:A:H2'	10:BA:901:A:H8	1.85	0.41
11:AB:1:MET:HE3	31:AV:111:TYR:HA	2.02	0.41
3:A3:62:LEU:HD21	3:A3:64:TYR:HE1	1.85	0.41
10:BA:1358:A:HO2'	10:BA:1359:C:P	2.42	0.41
10:AA:730:A:C2	10:AA:785:G:N2	2.89	0.41
21:AL:29:PHE:CZ	21:AL:33:LEU:CD1	3.04	0.41
4:A4:43:LYS:CD	4:A4:44:SER:H	2.30	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:AY:76:LEU:HA	34:AY:93:LYS:O	2.21	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
15:BF:26:ARG:HB2	15:BF:32:PHE:CD1	2.55	0.41
10:AA:1033:A:O2'	10:AA:1034:A:C5'	2.66	0.41
25:BP:56:TYR:O	25:BP:57:GLY:O	2.39	0.41
16:AG:67:LEU:HD22	16:AG:107:PHE:CE1	2.56	0.41
29:AT:124:ALA:CA	29:AT:127:LYS:HE2	2.48	0.41
10:BA:55:U:O2'	10:BA:56:G:P	2.79	0.41
3:B3:138:GLY:C	3:B3:154:GLN:HG2	2.40	0.41
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
26:BQ:43:THR:HA	26:BQ:44:PRO:HD2	1.84	0.41
10:AA:1587:U:H4'	10:AA:1588:G:H8	1.86	0.41
30:AU:116:GLU:O	30:AU:120:ILE:HG13	2.20	0.41
24:BO:6:MET:HE1	24:BO:122:SER:HB3	2.02	0.41
7:A7:48:SER:O	7:A7:52:ARG:HG3	2.20	0.41
35:BZ:34:TRP:CD1	35:BZ:82:ALA:CB	2.98	0.41
3:A3:196:LYS:HD3	3:A3:196:LYS:C	2.41	0.41
10:AA:1165:A:HO2'	10:AA:1166:A:P	2.43	0.41
9:B9:105:ASN:ND2	9:B9:108:LYS:HE3	2.36	0.41
24:BO:101:ARG:NH1	24:BO:145:ALA:HA	2.29	0.41
7:B7:47:ARG:HA	7:B7:50:LYS:HE2	2.02	0.41
27:AR:28:VAL:HB	27:AR:43:ILE:HG22	2.03	0.41
27:AR:26:SER:O	27:AR:44:SER:HA	2.21	0.41
18:AI:120:VAL:CG1	18:AI:121:ALA:N	2.80	0.41
10:AA:1102:U:H2'	10:AA:1103:G:C5'	2.49	0.41
14:BE:225:TYR:C	14:BE:225:TYR:CD1	2.94	0.41
7:A7:50:LYS:CG	7:A7:51:ASP:N	2.83	0.41
10:AA:1191:A:N6	10:AA:1237:G:H1'	2.36	0.41
10:BA:29:G:C4'	21:BL:130:SER:HB3	2.51	0.41
20:BK:101:GLY:HA3	20:BK:133:THR:HG22	2.02	0.41
10:BA:99:A:HO2'	10:BA:100:A:P	2.44	0.41
25:AP:119:ALA:C	25:AP:123:LEU:HD13	2.41	0.41
25:AP:119:ALA:O	25:AP:120:ILE:C	2.58	0.41
25:AP:120:ILE:HG22	25:AP:124:LEU:HD12	2.03	0.41
32:AW:249:THR:C	32:AW:251:LEU:N	2.72	0.41
4:A4:154:GLN:HA	4:A4:158:SER:HB2	2.03	0.41
14:BE:188:VAL:HB	14:BE:215:THR:HG21	2.02	0.41
24:BO:107:ASN:C	24:BO:109:LYS:N	2.71	0.41
19:BJ:104:PHE:HB3	19:BJ:105:ARG:H	1.49	0.41
7:B7:25:LYS:HG3	7:B7:27:ASP:H	1.86	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:996:U:C4	10:AA:997:A:N7	2.89	0.41
11:BB:81:ALA:HB2	11:BB:168:SER:HB3	2.03	0.41
21:BL:81:LYS:C	21:BL:81:LYS:HD2	2.41	0.41
35:AZ:89:GLU:C	35:AZ:91:GLY:H	2.24	0.41
21:AL:81:LYS:C	21:AL:81:LYS:HD2	2.41	0.41
21:BL:131:LEU:O	21:BL:134:LEU:N	2.53	0.41
10:BA:775:C:H2'	10:BA:776:A:O4'	2.21	0.41
10:BA:1408:U:H1'	12:BC:184:ILE:CD1	2.51	0.41
26:BQ:112:PRO:O	26:BQ:113:CYS:C	2.59	0.41
7:A7:100:ILE:CD1	12:AC:62:ILE:HD11	2.51	0.41
13:AD:151:ASP:O	13:AD:154:LYS:HE3	2.21	0.41
13:BD:11:THR:O	13:BD:47:MET:HG2	2.21	0.41
7:B7:94:ALA:HB3	12:BC:70:LYS:NZ	2.36	0.41
10:BA:1284:A:H62	10:BA:1285:A:N6	2.19	0.41
17:AH:88:LYS:O	17:AH:92:ASN:HB2	2.19	0.41
26:BQ:88:ASP:HB3	26:BQ:154:PHE:CE2	2.56	0.41
33:AX:25:ASP:O	33:AX:26:LYS:C	2.59	0.41
32:BW:15:PRO:HD3	32:BW:39:ARG:NH1	2.36	0.41
30:AU:98:LYS:HA	30:AU:98:LYS:HD3	1.87	0.41
24:AO:84:PRO:O	24:AO:85:GLN:C	2.59	0.41
14:BE:90:GLN:OE1	14:BE:95:GLN:HG2	2.20	0.41
32:BW:201:GLU:CD	32:BW:201:GLU:H	2.24	0.41
14:AE:174:PRO:HD2	14:AE:177:THR:HB	2.03	0.41
14:AE:205:THR:O	14:AE:206:ARG:C	2.56	0.41
21:AL:21:ASP:C	21:AL:23:ARG:N	2.74	0.41
10:BA:12:U:H2'	10:BA:13:C:H6	1.85	0.41
13:BD:15:PRO:HG3	13:BD:23:ARG:NH1	2.36	0.41
16:AG:62:PRO:O	16:AG:63:ILE:C	2.59	0.41
18:AI:14:ARG:H	18:AI:85:GLN:NE2	2.19	0.41
10:BA:472:A:O2'	10:BA:473:A:C5'	2.68	0.41
10:AA:143:C:O5'	10:AA:143:C:H6	2.04	0.41
4:A4:141:PHE:CD1	4:A4:141:PHE:N	2.88	0.41
23:AN:22:VAL:C	23:AN:24:GLY:N	2.75	0.41
32:BW:254:ARG:CB	32:BW:254:ARG:HH11	2.32	0.41
10:BA:1717:C:C2'	10:BA:1718:A:H5''	2.49	0.41
4:B4:167:VAL:HG12	4:B4:168:ARG:N	2.35	0.41
10:BA:1563:C:H3'	10:BA:1563:C:C6	2.56	0.41
5:A5:77:ILE:HD12	5:A5:77:ILE:H	1.86	0.41
10:AA:1123:G:H21	10:AA:1721:G:H8	1.69	0.41
10:AA:1719:A:H1'	10:AA:1747:A:C5	2.56	0.41
10:AA:1750:A:N3	10:AA:1750:A:O4'	2.53	0.41
10:BA:1277:U:C2'	10:BA:1277:U:O2	2.69	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:125:U:C4'	10:BA:126:A:C5'	2.91	0.41
10:BA:887:U:C5'	10:BA:887:U:C6	3.03	0.41
10:BA:1174:A:N1	10:BA:1428:C:OP1	2.54	0.41
25:BP:2:THR:CG2	25:BP:3:ILE:N	2.68	0.41
12:BC:9:ASN:HB2	12:BC:12:LYS:HB3	2.02	0.41
10:BA:1486:U:O2'	12:BC:9:ASN:N	2.54	0.41
33:BX:44:ARG:CG	33:BX:45:TYR:N	2.83	0.41
10:AA:1254:U:H2'	10:AA:1255:U:C6	2.56	0.41
10:AA:1573:G:C2	29:AT:91:ASN:HB3	2.55	0.41
10:BA:156:U:H3'	10:BA:157:G:C8	2.57	0.41
10:BA:623:U:C2'	10:BA:624:A:H5'	2.50	0.41
10:BA:948:A:C5	10:BA:949:A:C8	3.09	0.41
3:B3:161:ASP:HB2	3:B3:162:PHE:H	1.75	0.41
10:AA:561:A:C2	10:AA:577:C:H1'	2.55	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
2:B2:179:ARG:HG2	10:BA:321:U:OP1	2.21	0.41
2:B2:77:SER:CA	26:BQ:23:LEU:HD11	2.50	0.41
10:AA:224:G:C2	10:AA:234:G:C2	3.09	0.41
10:AA:210:A:N7	10:AA:238:G:N2	2.69	0.41
10:AA:1302:G:H2'	10:AA:1303:A:H5'	2.02	0.41
10:AA:1301:A:HO2'	10:AA:1302:G:H5'	1.81	0.41
16:BG:95:ILE:HG21	16:BG:103:PRO:CB	2.48	0.41
33:AX:8:LEU:C	33:AX:10:LYS:H	2.25	0.41
7:B7:90:LYS:HB2	12:BC:74:GLN:NE2	2.34	0.41
10:AA:318:U:C5'	10:AA:319:A:OP2	2.69	0.41
32:BW:101:PHE:HD2	32:BW:113:LEU:HB3	1.86	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
10:AA:384:C:O2'	10:AA:385:C:C5'	2.68	0.41
2:B2:29:LYS:HA	2:B2:29:LYS:HD3	1.91	0.41
11:AB:45:ASN:OD1	11:AB:47:GLU:N	2.53	0.41
11:AB:6:LYS:HE2	31:AV:111:TYR:OH	2.21	0.41
18:BI:62:PHE:CD1	18:BI:62:PHE:C	2.95	0.41
35:AZ:84:GLU:O	35:AZ:88:ARG:HG2	2.20	0.41
10:AA:558:G:O2'	10:AA:559:C:OP2	2.33	0.41
25:BP:82:LYS:CD	25:BP:83:TYR:HE1	2.34	0.41
29:AT:127:LYS:O	29:AT:128:PHE:CB	2.60	0.41
10:BA:1013:G:H2'	10:BA:1014:A:H8	1.84	0.41
16:BG:70:THR:HG21	16:BG:147:TYR:HA	2.02	0.41
10:BA:514:G:H4'	25:BP:34:SER:HB3	2.03	0.41
27:AR:237:LEU:HD12	27:AR:272:VAL:CG2	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:AR:237:LEU:HD12	27:AR:272:VAL:HG22	2.02	0.41
29:AT:114:LEU:HB3	29:AT:116:ILE:HD11	2.02	0.41
34:BY:12:ALA:HB1	34:BY:124:LEU:HD23	2.03	0.41
7:A7:68:LEU:HD12	7:A7:69:ASN:H	1.86	0.41
32:AW:37:LYS:H	32:AW:37:LYS:HG2	1.68	0.41
14:AE:226:LEU:HD13	35:AZ:38:LEU:HD21	2.03	0.41
4:A4:77:ASP:C	4:A4:79:SER:N	2.71	0.41
14:AE:157:GLN:OE1	14:AE:157:GLN:N	2.52	0.41
30:AU:17:LYS:C	30:AU:17:LYS:HD3	2.41	0.41
7:B7:91:THR:CG2	12:BC:71:GLU:HG2	2.50	0.41
18:AI:102:ASN:CG	27:AR:67:ILE:CG2	2.89	0.41
11:BB:122:ASP:HA	11:BB:123:PRO:HD3	1.94	0.41
25:BP:123:LEU:H	25:BP:123:LEU:HD12	1.85	0.41
12:AC:214:ILE:HD12	31:AV:40:GLN:OE1	2.21	0.41
28:AS:86:ARG:HD2	28:AS:102:TYR:O	2.21	0.41
24:AO:107:ASN:C	24:AO:109:LYS:N	2.73	0.41
10:AA:1500:C:H5''	16:AG:86:LYS:HZ1	1.86	0.41
10:AA:656:G:O2'	10:AA:657:U:O5'	2.39	0.41
23:AN:10:PRO:O	23:AN:12:ASN:N	2.48	0.41
11:BB:115:PRO:HG2	11:BB:138:ILE:CD1	2.50	0.41
34:AY:11:GLY:HA3	34:AY:129:LEU:HD12	2.02	0.41
27:AR:31:PHE:HD1	27:AR:31:PHE:N	2.19	0.41
10:BA:662:U:H2'	10:BA:663:G:C8	2.56	0.41
11:AB:76:ILE:HG13	11:AB:77:TYR:CD1	2.56	0.41
6:A6:25:ALA:HB1	6:A6:26:PRO:HD2	2.02	0.41
1:B1:14:VAL:HG23	1:B1:51:VAL:HG22	2.01	0.41
34:BY:8:PRO:O	34:BY:10:THR:N	2.54	0.41
10:BA:953:C:O2	10:BA:953:C:H2'	2.21	0.41
12:BC:216:HIS:HA	12:BC:217:PRO:HD3	1.92	0.41
10:AA:1636:C:O2'	10:AA:1637:U:H5'	2.19	0.41
7:B7:35:THR:CG2	7:B7:37:VAL:HG23	2.51	0.41
10:AA:1112:A:H2'	10:AA:1113:G:O4'	2.20	0.40
14:AE:185:PRO:O	14:AE:186:LYS:C	2.58	0.40
8:A8:69:VAL:HG11	8:A8:80:ALA:CB	2.48	0.40
18:AI:16:LYS:HA	18:AI:125:ARG:HH11	1.86	0.40
10:AA:1459:G:C8	10:AA:1487:A:N6	2.89	0.40
23:AN:20:CYS:SG	23:AN:37:THR:HA	2.61	0.40
10:BA:1598:U:O2'	10:BA:1599:U:H5'	2.21	0.40
6:A6:51:THR:HA	6:A6:62:CYS:O	2.21	0.40
17:AH:30:VAL:HG12	17:AH:31:SER:N	2.35	0.40
16:BG:45:PRO:O	16:BG:65:GLU:OE1	2.38	0.40
10:AA:1603:A:C8	10:AA:1717:C:H1'	2.56	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:978:C:O2	10:AA:981:A:C8	2.74	0.40
27:BR:276:GLN:HB3	27:BR:294:ILE:HD13	2.03	0.40
10:BA:45:A:OP2	10:BA:45:A:C8	2.74	0.40
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
13:AD:113:VAL:HG21	13:AD:129:ILE:CG2	2.51	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:AA:668:U:OP1	17:AH:119:ARG:NH2	2.44	0.40
8:B8:87:MET:HE2	8:B8:87:MET:HB3	1.89	0.40
22:BM:25:LYS:HG3	22:BM:25:LYS:O	2.21	0.40
34:BY:3:PHE:CE1	34:BY:18:ILE:HD12	2.56	0.40
15:BF:47:ILE:N	15:BF:47:ILE:HD12	2.36	0.40
12:BC:10:LYS:NZ	19:BJ:86:LYS:NZ	2.69	0.40
3:A3:130:LEU:HB2	3:A3:170:ILE:HD13	2.03	0.40
10:AA:799:G:C6	10:AA:835:U:O2	2.73	0.40
10:AA:150:A:C2	10:AA:151:A:H1'	2.56	0.40
10:AA:956:A:N6	10:AA:957:A:C2	2.89	0.40
30:BU:68:ILE:HG22	30:BU:69:LYS:O	2.21	0.40
27:AR:187:PHE:CE1	27:AR:199:TRP:HB2	2.57	0.40
27:AR:267:LEU:O	27:AR:268:GLN:CB	2.66	0.40
2:B2:11:ARG:HB2	10:BA:314:A:H5''	2.04	0.40
10:BA:246:U:H2'	26:BQ:62:ASN:HD22	1.85	0.40
10:BA:477:G:C2'	10:BA:478:G:C5'	2.99	0.40
10:BA:1449:G:C6	10:BA:1502:A:C6	3.09	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:AA:303:A:N3	10:AA:305:C:C2	2.89	0.40
10:AA:341:G:H5''	10:AA:342:U:O3'	2.20	0.40
2:A2:33:ILE:HG23	10:AA:321:U:O2'	2.22	0.40
10:AA:318:U:H5'	10:AA:319:A:P	2.60	0.40
26:AQ:17:LEU:O	26:AQ:20:LYS:HE2	2.21	0.40
2:A2:93:ALA:CA	26:AQ:9:TYR:HD2	2.33	0.40
8:B8:47:LYS:HA	8:B8:50:VAL:HG23	2.03	0.40
27:BR:289:ALA:H	27:BR:290:PRO:HD3	1.87	0.40
32:BW:94:ILE:O	32:BW:95:GLU:C	2.60	0.40
10:BA:26:U:C2'	10:BA:27:A:C5'	2.89	0.40
10:AA:986:G:N1	10:AA:987:U:C4	2.89	0.40
14:AE:27:TRP:CE3	14:AE:28:GLN:N	2.89	0.40
13:AD:112:ARG:O	13:AD:116:LEU:HG	2.21	0.40
27:AR:122:TYR:HE2	27:AR:138:ALA:HB2	1.86	0.40
10:BA:403:A:C2	10:BA:414:G:H1'	2.56	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AA:1012:C:C2'	10:AA:1013:G:H5'	2.51	0.40
27:AR:235:LYS:CE	27:AR:256:SER:H	2.34	0.40
10:BA:1652:A:H5'	10:BA:1653:C:OP2	2.20	0.40
10:BA:730:A:C2	10:BA:785:G:N2	2.88	0.40
16:AG:152:GLY:O	16:AG:153:CYS:C	2.59	0.40
14:BE:53:ILE:HA	14:BE:54:PRO:HD2	1.86	0.40
10:AA:1333:A:N7	10:AA:1334:U:O4	2.53	0.40
10:BA:1055:G:C5	10:BA:1056:A:N7	2.89	0.40
19:AJ:55:ARG:HB3	19:AJ:87:ARG:NH1	2.36	0.40
10:BA:1189:A:H2'	10:BA:1190:G:OP2	2.21	0.40
10:BA:1162:C:O2'	10:BA:1163:U:C5'	2.68	0.40
8:A8:27:LYS:CG	10:AA:1509:U:H5	2.32	0.40
18:BI:120:VAL:CG1	18:BI:121:ALA:N	2.81	0.40
4:B4:77:ASP:C	4:B4:79:SER:N	2.71	0.40
10:BA:1421:G:O2'	23:BN:6:TRP:CB	2.69	0.40
29:AT:73:HIS:HA	29:AT:129:SER:OG	2.21	0.40
10:AA:1086:G:H2'	10:AA:1087:U:OP2	2.20	0.40
10:BA:399:C:O2'	10:BA:1685:A:H1'	2.21	0.40
10:AA:1449:G:C6	10:AA:1502:A:C6	3.09	0.40
3:A3:157:GLN:OE1	3:A3:157:GLN:HA	2.20	0.40
26:AQ:107:PRO:O	26:AQ:107:PRO:HG2	2.21	0.40
10:BA:1390:G:C4'	23:BN:55:ARG:HB3	2.51	0.40
10:BA:1343:G:H2'	10:BA:1344:U:OP1	2.20	0.40
35:BZ:14:THR:HG22	35:BZ:14:THR:O	2.20	0.40
11:BB:148:SER:HA	11:BB:149:PRO:HD3	1.87	0.40
14:AE:188:VAL:HB	14:AE:215:THR:HG21	2.02	0.40
25:AP:72:LEU:HD13	25:AP:74:TYR:HE1	1.86	0.40
10:AA:1316:A:C6	10:AA:1317:A:N6	2.90	0.40
18:AI:58:GLY:C	18:AI:60:GLN:H	2.25	0.40
7:B7:32:HIS:HD2	7:B7:35:THR:OG1	2.04	0.40
6:B6:63:LYS:HA	6:B6:63:LYS:HD3	1.92	0.40
11:BB:182:ARG:HD3	11:BB:184:GLU:OE2	2.20	0.40
5:A5:17:HIS:ND1	5:A5:18:THR:N	2.69	0.40
10:BA:1586:A:N3	10:BA:1586:A:H2'	2.35	0.40
10:AA:1058:A:H5''	14:AE:164:GLY:O	2.20	0.40
10:BA:548:A:C5	13:BD:19:TYR:CE2	3.10	0.40
10:AA:1443:A:C5	10:AA:1507:U:H5	2.38	0.40
29:BT:43:THR:HG22	29:BT:44:SER:N	2.37	0.40
10:AA:1495:U:O2'	10:AA:1496:A:C5'	2.64	0.40
16:AG:138:PRO:HG2	16:AG:139:MET:H	1.86	0.40
10:AA:80:A:H2'	10:AA:81:A:C8	2.56	0.40
10:AA:763:U:O3'	10:AA:764:U:H6	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AC:9:ASN:HB2	12:AC:12:LYS:HB3	2.02	0.40
5:B5:89:ARG:HH21	10:BA:1749:C:H5''	1.85	0.40
10:BA:1122:G:C6	10:BA:1124:A:N6	2.90	0.40
10:BA:1599:U:C2	10:BA:1600:U:C6	3.09	0.40
17:AH:30:VAL:HG11	17:AH:35:LEU:HD21	2.02	0.40
10:BA:1582:G:C5'	16:BG:81:LYS:HB3	2.51	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
10:BA:1216:A:C2	10:BA:1218:C:H1'	2.55	0.40
9:B9:148:UNK:HA	9:B9:151:UNK:CG	2.51	0.40
31:AV:17:ILE:HA	31:AV:24:LEU:HD11	2.02	0.40
10:BA:840:A:OP2	24:BO:66:ARG:NH2	2.45	0.40
10:AA:892:G:O2'	10:AA:893:A:C5'	2.69	0.40
10:BA:660:U:H2'	10:BA:661:G:C8	2.56	0.40
7:B7:61:TRP:N	7:B7:61:TRP:CD1	2.89	0.40
12:BC:9:ASN:O	12:BC:10:LYS:C	2.58	0.40
10:BA:549:A:N3	10:BA:584:C:H1'	2.36	0.40
11:AB:13:LEU:HA	11:AB:169:MET:HE1	2.04	0.40
10:AA:1566:G:H2'	10:AA:1567:U:O4'	2.21	0.40
4:B4:31:TRP:NE1	20:BK:16:TYR:O	2.54	0.40
7:B7:17:LEU:HA	7:B7:17:LEU:HD12	1.89	0.40
30:BU:47:ALA:HB3	30:BU:101:SER:HA	2.03	0.40
27:AR:102:LEU:O	27:AR:110:THR:HA	2.21	0.40
10:BA:707:U:H6	10:BA:707:U:H5'	1.86	0.40
5:A5:59:PHE:HB2	20:AK:127:GLY:HA2	2.03	0.40
27:BR:46:SER:OG	27:BR:47:ARG:N	2.53	0.40
30:AU:103:LEU:HD23	30:AU:103:LEU:N	2.37	0.40
10:AA:238:G:N2	10:AA:239:A:C1'	2.84	0.40
28:AS:14:ARG:HB3	28:AS:114:PHE:CE2	2.56	0.40
24:BO:21:LYS:HD3	24:BO:23:ARG:NH2	2.35	0.40
11:BB:59:VAL:CG1	11:BB:141:ILE:HD11	2.51	0.40
5:B5:44:MET:HG3	5:B5:66:ILE:CG2	2.51	0.40
10:AA:551:U:C2'	10:AA:552:C:O5'	2.68	0.40
2:A2:31:ARG:HB3	2:A2:32:PRO:HD2	2.03	0.40
10:AA:321:U:H3'	10:AA:322:G:H8	1.86	0.40
26:AQ:33:TYR:CE2	26:AQ:35:LYS:HB2	2.56	0.40
10:BA:1141:G:O5'	10:BA:1142:G:OP2	2.39	0.40
32:AW:183:CYS:HA	32:AW:230:LEU:H	1.86	0.40
32:AW:42:LEU:HD11	32:AW:47:LEU:N	2.37	0.40
10:BA:30:C:O2	10:BA:540:U:H4'	2.21	0.40
10:BA:430:A:H4'	10:BA:431:U:OP1	2.22	0.40
8:B8:29:LYS:HZ1	10:BA:1509:U:H5'	1.82	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:1674:A:C6	10:BA:1675:A:N7	2.89	0.40
30:BU:96:LYS:CE	30:BU:98:LYS:CE	2.99	0.40
29:AT:116:ILE:HA	29:AT:136:GLY:CA	2.50	0.40
14:AE:65:TYR:CD2	14:AE:77:LEU:HB2	2.56	0.40
22:AM:135:GLY:O	22:AM:137:HIS:N	2.55	0.40
12:BC:175:VAL:CG1	12:BC:188:LYS:HG2	2.51	0.40
10:AA:1000:U:C4'	10:AA:1097:A:H61	2.33	0.40
3:B3:52:LYS:CD	3:B3:53:THR:H	2.34	0.40
32:AW:210:CYS:SG	32:AW:227:ILE:CD1	3.09	0.40
28:BS:20:GLU:O	28:BS:24:LEU:HB2	2.22	0.40
14:BE:112:ILE:HD11	14:BE:188:VAL:O	2.21	0.40
25:BP:61:GLN:O	25:BP:63:GLY:N	2.55	0.40
22:BM:14:ILE:HG21	22:BM:22:ILE:HG23	2.01	0.40
1:A1:65:ARG:CG	1:A1:66:ARG:N	2.84	0.40
12:BC:184:ILE:HG22	12:BC:185:MET:N	2.36	0.40
20:AK:110:PRO:CG	20:AK:111:GLY:H	2.35	0.40
20:AK:42:ILE:HD11	20:AK:115:ALA:CB	2.51	0.40
10:AA:543:A:C2	10:AA:550:G:C5	3.09	0.40
27:BR:163:ASP:HB3	27:BR:192:TRP:HB2	2.03	0.40
10:BA:713:U:O5'	10:BA:713:U:H6	2.04	0.40
10:AA:713:U:O5'	10:AA:713:U:H6	2.04	0.40
10:BA:122:A:N7	34:BY:201:ARG:NH1	2.69	0.40
8:B8:56:ASN:HD21	8:B8:115:LYS:HZ3	1.69	0.40
10:BA:1448:U:OP1	29:BT:47:ARG:HB3	2.20	0.40
10:AA:19:A:H2'	10:AA:20:G:O4'	2.22	0.40
13:AD:14:THR:HG23	13:AD:15:PRO:HD2	2.03	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
14:BE:144:TYR:HA	14:BE:153:HIS:CE1	2.56	0.40
8:A8:90:ARG:C	8:A8:92:LEU:N	2.75	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:132:U:O2'	10:AA:135:A:H5'	2.22	0.40
10:AA:1474:G:O2'	10:AA:1475:G:H5'	2.20	0.40
12:AC:9:ASN:O	12:AC:12:LYS:N	2.55	0.40
17:AH:31:SER:OG	17:AH:34:VAL:HG23	2.21	0.40
10:BA:1035:A:N3	10:BA:1035:A:H2'	2.36	0.40
16:BG:34:ALA:O	16:BG:35:CYS:C	2.60	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
9:B9:152:UNK:C	9:B9:155:UNK:HG3	2.52	0.40
10:BA:876:A:H1'	10:BA:877:G:O4'	2.20	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:BA:844:G:C2	10:BA:943:U:O4	2.75	0.40
10:BA:1156:A:C2	10:BA:1426:G:O4'	2.74	0.40
10:BA:1429:G:OP2	10:BA:1430:C:C5	2.67	0.40
10:BA:1537:C:H2'	10:BA:1538:U:O4'	2.21	0.40
10:AA:881:U:O2	10:AA:883:A:OP2	2.39	0.40
11:BB:5:ARG:O	11:BB:9:ASP:OD1	2.40	0.40
10:AA:1246:C:C2'	10:AA:1247:A:OP2	2.70	0.40
10:AA:1174:A:N1	10:AA:1428:C:OP1	2.54	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
10:AA:1001:A:O2'	10:AA:1002:U:C6	2.52	0.40
27:AR:134:LEU:HD11	27:AR:203:PHE:HZ	1.86	0.40
27:AR:187:PHE:O	27:AR:199:TRP:HD1	2.05	0.40
20:AK:116:LEU:HD23	20:AK:116:LEU:O	2.21	0.40
26:AQ:75:ILE:CD1	26:AQ:86:ARG:HB2	2.51	0.40
10:AA:70:U:H5'	34:AY:173:ARG:NH1	2.36	0.40
10:BA:210:A:H3'	10:BA:239:A:H2	1.85	0.40
14:BE:41:LYS:NZ	14:BE:247:PHE:CG	2.90	0.40
7:A7:89:PRO:O	7:A7:90:LYS:C	2.60	0.40
10:AA:306:A:C1'	10:AA:344:A:H61	2.33	0.40
2:B2:140:ASN:HD21	10:BA:182:U:H3	1.66	0.40
2:A2:105:VAL:H	2:A2:108:SER:HG	1.69	0.40
27:BR:238:LEU:HD23	27:BR:240:TRP:HZ2	1.87	0.40
14:AE:41:LYS:O	14:AE:42:ILE:HG23	2.21	0.40
27:BR:216:VAL:HG11	27:BR:230:THR:HG23	2.03	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:BA:986:G:O2'	10:BA:987:U:H5'	2.21	0.40
35:AZ:96:GLN:O	35:AZ:97:GLU:C	2.59	0.40
10:BA:537:A:O2'	10:BA:538:A:P	2.75	0.40
10:AA:398:A:O4'	10:AA:1643:A:H4'	2.21	0.40
10:AA:380:G:O2'	10:AA:381:G:P	2.80	0.40
8:B8:29:LYS:C	8:B8:30:TRP:O	2.57	0.40
10:BA:1252:C:O2'	10:BA:1253:G:H5'	2.21	0.40
10:BA:483:C:O5'	10:BA:483:C:H6	2.04	0.40
10:BA:201:A:N3	10:BA:259:U:C4	2.89	0.40
16:BG:184:TRP:CE3	16:BG:187:ARG:HD2	2.56	0.40
2:B2:124:HIS:ND1	2:B2:152:LYS:HD3	2.36	0.40
19:AJ:14:VAL:HG11	19:AJ:16:LYS:HE3	2.03	0.40
35:BZ:73:VAL:CG1	35:BZ:78:GLU:HB3	2.51	0.40
10:AA:1422:C:O2'	10:AA:1423:U:H5'	2.21	0.40
23:AN:4:LYS:HD2	23:AN:6:TRP:NE1	2.34	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BR:234:ASP:C	27:BR:236:LYS:H	2.23	0.40
30:BU:13:ALA:HB2	30:BU:82:TYR:CE1	2.57	0.40
10:BA:1692:C:H2'	10:BA:1693:A:C8	2.56	0.40
10:AA:525:U:H2'	10:AA:526:U:O4'	2.21	0.40
10:BA:851:U:O2'	10:BA:852:U:H5'	2.21	0.40
24:BO:48:THR:O	24:BO:52:ILE:HG13	2.21	0.40
10:AA:847:A:O2'	10:AA:848:C:H5'	2.22	0.40
10:AA:41:U:O2'	10:AA:42:A:P	2.80	0.40
27:AR:136:ALA:HB1	27:AR:165:VAL:CG1	2.51	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
10:BA:1498:U:H2'	10:BA:1499:A:H5'	2.02	0.40
16:AG:76:ARG:H	16:AG:76:ARG:HG2	1.68	0.40
16:AG:29:PHE:N	16:AG:29:PHE:CD1	2.90	0.40
15:AF:58:ASN:HB3	15:AF:74:ASN:HD21	1.87	0.40
3:A3:148:THR:HB	3:A3:150:PHE:CE1	2.56	0.40
26:AQ:96:TYR:O	26:AQ:98:ARG:HG2	2.21	0.40
10:BA:600:A:O2'	10:BA:603:U:OP1	2.33	0.40
17:BH:97:ARG:HA	17:BH:97:ARG:HD2	1.90	0.40
10:AA:1538:U:OP1	22:AM:42:PHE:HB2	2.21	0.40
22:AM:102:SER:O	22:AM:106:ASP:OD2	2.39	0.40
22:AM:25:LYS:O	22:AM:25:LYS:HG3	2.22	0.40
16:AG:34:ALA:CB	16:AG:63:ILE:H	2.29	0.40
10:AA:133:A:H2'	10:AA:170:C:O2	2.22	0.40
23:AN:22:VAL:O	23:AN:23:CYS:C	2.58	0.40
6:A6:18:LYS:HZ3	24:AO:16:SER:H	1.67	0.40
27:BR:235:LYS:HG3	27:BR:256:SER:O	2.22	0.40
10:BA:1263:G:OP1	14:BE:96:ARG:NH2	2.55	0.40
10:BA:871:U:C4	10:BA:872:A:N7	2.90	0.40
10:BA:876:A:C4'	10:BA:877:G:O5'	2.63	0.40
10:BA:876:A:H5'	20:BK:60:MET:HE3	2.04	0.40
31:AV:5:ARG:NH1	31:AV:53:PHE:HB2	2.37	0.40
6:B6:19:PHE:HA	6:B6:24:GLN:HG3	2.03	0.40
22:BM:26:ARG:CG	22:BM:27:ILE:N	2.72	0.40
10:AA:1731:G:H2'	10:AA:1732:U:C5'	2.41	0.40
1:B1:27:VAL:HG12	1:B1:28:ARG:N	2.37	0.40
10:AA:1250:G:H2'	10:AA:1251:C:O4'	2.22	0.40
10:BA:157:G:H2'	10:BA:158:G:H8	1.85	0.40
10:AA:150:A:C6	10:AA:409:G:O6	2.74	0.40
20:BK:84:ARG:CZ	20:BK:88:LEU:HD21	2.52	0.40
10:AA:625:G:O2'	10:AA:626:U:H5'	2.21	0.40
7:B7:14:LYS:C	7:B7:16:LEU:N	2.73	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BU:70:TYR:HD2	30:BU:126:ALA:C	2.24	0.40
27:AR:97:ASP:O	27:AR:98:LYS:CB	2.70	0.40
20:AK:27:VAL:HG23	20:AK:91:ASN:OD1	2.22	0.40
10:BA:303:A:C2'	10:BA:304:U:OP2	2.70	0.40
26:BQ:75:ILE:HG22	26:BQ:76:SER:N	2.36	0.40
10:AA:1135:A:H2'	10:AA:1136:G:O4'	2.20	0.40
31:AV:43:SER:HB3	31:AV:46:LEU:CB	2.52	0.40
10:BA:564:A:C2	10:BA:568:G:O6	2.74	0.40
12:AC:74:GLN:HG2	12:AC:77:GLN:NE2	2.36	0.40
5:B5:57:LEU:CG	5:B5:58:ALA:H	2.34	0.40
2:A2:105:VAL:HG13	10:AA:320:G:O3'	2.21	0.40
26:AQ:32:ARG:HH11	26:AQ:32:ARG:CG	2.35	0.40
26:AQ:32:ARG:HD2	26:AQ:48:ILE:O	2.20	0.40
10:BA:1437:G:OP1	18:BI:141:GLN:HG2	2.21	0.40
13:AD:106:GLU:HG3	13:AD:111:THR:CG2	2.50	0.40
12:BC:108:MET:CE	12:BC:122:ALA:HA	2.52	0.40
32:BW:42:LEU:HD13	32:BW:43:PRO:O	2.21	0.40
32:AW:89:MET:HG3	32:AW:228:PHE:HE2	1.76	0.40
10:AA:192:C:H2'	10:AA:193:C:O5'	2.21	0.40
32:AW:65:LEU:HB3	32:AW:80:ARG:HA	2.04	0.40
27:AR:334:ARG:HB3	27:AR:336:PHE:HE1	1.86	0.40
11:AB:99:TRP:CZ3	11:AB:132:GLU:OE2	2.75	0.40
12:BC:205:VAL:C	12:BC:206:LYS:HG3	2.41	0.40
34:BY:216:LEU:HD23	34:BY:216:LEU:HA	1.84	0.40
34:BY:93:LYS:HG3	34:BY:94:ARG:N	2.36	0.40
10:AA:732:U:H2'	10:AA:733:G:C8	2.57	0.40
17:AH:106:THR:HB	17:AH:108:TYR:H	1.85	0.40
7:A7:14:LYS:CG	7:A7:80:LEU:HD11	2.51	0.40
16:BG:152:GLY:O	16:BG:153:CYS:C	2.60	0.40
10:AA:272:U:C2'	10:AA:273:A:H5''	2.52	0.40
35:BZ:79:ALA:HA	35:BZ:82:ALA:HB3	2.02	0.40
11:BB:172:TRP:CE3	11:BB:195:VAL:HG22	2.55	0.40
29:BT:108:LEU:HD13	29:BT:130:ARG:CG	2.49	0.40
35:BZ:67:VAL:HG21	35:BZ:83:LEU:HD11	2.03	0.40
7:B7:57:GLU:HA	7:B7:65:TYR:O	2.21	0.40
6:A6:57:CYS:O	6:A6:58:SER:CB	2.64	0.40
21:BL:6:PRO:HG3	21:BL:14:LYS:HG2	2.03	0.40
10:AA:1265:U:C4'	11:AB:108:GLN:NE2	2.84	0.40
11:BB:85:PHE:CG	11:BB:171:TYR:HD1	2.39	0.40
35:AZ:83:LEU:C	35:AZ:85:ASN:N	2.75	0.40
10:BA:906:U:H2'	10:BA:907:A:OP2	2.20	0.40
10:BA:1623:A:C2'	10:BA:1624:G:OP2	2.69	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B1:6:THR:O	1:B1:6:THR:HG22	2.21	0.40
31:BV:80:ARG:HA	31:BV:83:ASP:OD1	2.22	0.40
31:AV:80:ARG:HA	31:AV:83:ASP:OD1	2.22	0.40
10:AA:1446:A:H2'	10:AA:1447:C:C6	2.55	0.40
7:A7:35:THR:CG2	7:A7:37:VAL:HG23	2.51	0.40
7:B7:94:ALA:HB1	7:B7:96:ASN:OD1	2.22	0.40
3:B3:148:THR:HB	3:B3:150:PHE:CE1	2.56	0.40
10:BA:287:U:H2'	10:BA:288:C:O4'	2.22	0.40
16:AG:145:ALA:O	16:AG:149:ILE:HG13	2.21	0.40
12:AC:209:ILE:HB	12:AC:212:ASN:HB2	2.02	0.40
22:AM:69:ILE:O	22:AM:73:ILE:HG13	2.21	0.40
10:BA:1526:G:N3	10:BA:1526:G:O4'	2.54	0.40
11:AB:192:GLU:OE1	11:AB:192:GLU:N	2.50	0.40
10:BA:655:C:OP2	10:BA:655:C:O4'	2.40	0.40
14:AE:145:TRP:C	14:AE:145:TRP:CD1	2.94	0.40
14:AE:179:ILE:HG21	14:AE:186:LYS:HG3	2.02	0.40
10:BA:1081:G:H2'	10:BA:1082:G:H8	1.85	0.40
10:BA:1:A:N1	14:BE:186:LYS:NZ	2.70	0.40
14:BE:140:VAL:HG11	14:BE:219:LEU:HG	2.02	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:1507:U:H1'	10:AA:1508:G:C2	2.57	0.40
10:AA:1375:C:H2'	10:AA:1376:A:C8	2.57	0.40
16:AG:45:PRO:O	16:AG:65:GLU:OE1	2.40	0.40
5:B5:89:ARG:HD3	10:BA:1750:A:C6	2.56	0.40
17:AH:55:ASP:C	17:AH:57:ARG:H	2.25	0.40
10:AA:1340:G:N2	10:AA:1341:U:C1'	2.80	0.40
4:B4:144:ALA:C	4:B4:145:PHE:CD1	2.94	0.40
10:AA:1748:U:O2'	10:AA:1749:C:H5'	2.22	0.40
10:BA:57:U:O2'	10:BA:443:A:N3	2.47	0.40
10:BA:262:G:P	34:BY:194:TYR:HH	2.41	0.40
9:B9:148:UNK:HA	9:B9:151:UNK:HG3	2.03	0.40
10:AA:1369:A:C5	10:AA:1370:U:O4	2.74	0.40
10:BA:1617:G:N2	10:BA:1710:G:C4	2.89	0.40
10:BA:1439:U:H4'	29:BT:90:GLY:O	2.22	0.40
22:BM:25:LYS:HZ3	22:BM:57:ARG:HB3	1.85	0.40
18:AI:129:LYS:C	18:AI:130:LYS:HG3	2.42	0.40
4:B4:31:TRP:C	4:B4:32:TYR:CD1	2.94	0.40
7:B7:45:LEU:HD23	7:B7:45:LEU:HA	1.91	0.40
4:A4:31:TRP:O	4:A4:32:TYR:CD1	2.75	0.40
10:AA:317:G:OP1	26:AQ:56:LYS:NZ	2.47	0.40
10:AA:477:G:H2'	10:AA:478:G:C5'	2.52	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:51:U:H2'	10:BA:52:G:C8	2.57	0.40
10:AA:344:A:H3'	10:AA:345:C:H6	1.87	0.40
11:BB:119:ILE:CD1	11:BB:119:ILE:N	2.84	0.40
2:A2:198:PHE:O	2:A2:201:ARG:HB2	2.22	0.40
32:AW:187:GLN:HA	32:AW:191:ILE:CG2	2.51	0.40
21:BL:90:GLY:O	21:BL:91:CYS:C	2.59	0.40
16:AG:19:TYR:C	16:AG:21:GLU:H	2.24	0.40
10:BA:294:U:O2'	10:BA:295:U:C5'	2.67	0.40
12:AC:196:GLU:HG2	12:AC:203:PHE:CB	2.52	0.40
11:AB:47:GLU:CB	31:AV:109:LEU:HD11	2.40	0.40
3:A3:48:PHE:CE2	3:A3:62:LEU:HD23	2.57	0.40
10:BA:589:G:C6	10:BA:590:C:C4	3.10	0.40
10:AA:731:C:O2'	10:AA:732:U:H5'	2.21	0.40
10:BA:459:G:O2'	10:BA:461:C:OP1	2.40	0.40
32:BW:26:ILE:HG22	32:BW:26:ILE:O	2.22	0.40
10:AA:289:U:H2'	10:AA:290:A:O4'	2.21	0.40
12:AC:40:ILE:HG23	12:AC:51:ILE:HG23	2.03	0.40
8:A8:63:VAL:HG21	16:AG:97:LEU:HB2	2.03	0.40
19:AJ:21:ILE:HB	19:AJ:89:ILE:HB	2.04	0.40
19:BJ:85:TYR:CD1	19:BJ:85:TYR:N	2.88	0.40
20:BK:75:MET:HE3	20:BK:121:ARG:HH12	1.86	0.40
12:BC:56:THR:HG21	12:BC:97:LYS:HG3	2.04	0.40
10:BA:241:A:O2'	10:BA:242:U:H5'	2.21	0.40
27:AR:209:PHE:CD2	27:AR:240:TRP:CZ3	3.10	0.40
10:AA:1517:A:OP1	22:AM:132:LYS:HA	2.21	0.40
12:BC:215:ILE:HA	31:BV:39:ALA:HB1	2.03	0.40
10:BA:10:G:C2	10:BA:1118:U:O2	2.74	0.40
10:BA:508:A:C3'	10:BA:509:G:H5'	2.52	0.40
4:A4:50:VAL:HG12	4:A4:51:THR:H	1.83	0.40
25:AP:129:GLY:O	25:AP:130:ASP:CB	2.68	0.40
28:AS:31:GLU:CG	28:AS:32:LYS:H	2.29	0.40
28:AS:31:GLU:H	28:AS:31:GLU:HG2	1.57	0.40
10:AA:830:G:O2'	10:AA:831:G:H5'	2.22	0.40
10:BA:1404:G:H2'	10:BA:1405:U:O4'	2.21	0.40
4:A4:169:ALA:HB1	4:A4:210:ILE:HD13	2.03	0.40
10:AA:1500:C:C5'	16:AG:86:LYS:HZ1	2.34	0.40
12:AC:83:SER:C	12:AC:85:ASP:N	2.74	0.40
10:BA:854:G:H2'	10:BA:921:C:O2	2.22	0.40
23:AN:10:PRO:C	23:AN:12:ASN:H	2.24	0.40
32:AW:201:GLU:CD	32:AW:201:GLU:N	2.75	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:B4:202:LYS:HA	4:B4:202:LYS:HD3	1.73	0.40
10:BA:1636:C:O2'	10:BA:1637:U:H5'	2.21	0.40
10:BA:487:C:OP2	10:BA:488:G:N7	2.55	0.40
17:AH:23:LYS:HG3	17:AH:23:LYS:H	1.64	0.40
14:AE:235:GLU:O	14:AE:236:ASP:C	2.60	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A1	65/68 (96%)	45 (69%)	11 (17%)	9 (14%)	0	11
1	B1	65/68 (96%)	44 (68%)	12 (18%)	9 (14%)	0	11
2	A2	205/208 (99%)	147 (72%)	38 (18%)	20 (10%)	1	21
2	B2	205/208 (99%)	146 (71%)	39 (19%)	20 (10%)	1	21
3	A3	194/197 (98%)	159 (82%)	25 (13%)	10 (5%)	3	42
3	B3	194/197 (98%)	159 (82%)	24 (12%)	11 (6%)	3	39
4	A4	213/265 (80%)	161 (76%)	33 (16%)	19 (9%)	1	25
4	B4	213/265 (80%)	161 (76%)	34 (16%)	18 (8%)	1	26
5	A5	96/119 (81%)	66 (69%)	20 (21%)	10 (10%)	1	18
5	B5	96/119 (81%)	65 (68%)	21 (22%)	10 (10%)	1	18
6	A6	78/81 (96%)	57 (73%)	15 (19%)	6 (8%)	1	29
6	B6	78/81 (96%)	57 (73%)	15 (19%)	6 (8%)	1	29
7	A7	102/162 (63%)	78 (76%)	17 (17%)	7 (7%)	2	33
7	B7	102/162 (63%)	78 (76%)	17 (17%)	7 (7%)	2	33
8	A8	91/143 (64%)	71 (78%)	13 (14%)	7 (8%)	1	29
8	B8	91/143 (64%)	71 (78%)	13 (14%)	7 (8%)	1	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	A9	72/189 (38%)	50 (69%)	17 (24%)	5 (7%)	2	33
9	B9	72/189 (38%)	50 (69%)	17 (24%)	5 (7%)	2	33
11	AB	202/241 (84%)	168 (83%)	28 (14%)	6 (3%)	7	59
11	BB	202/241 (84%)	167 (83%)	28 (14%)	7 (4%)	6	55
12	AC	227/243 (93%)	177 (78%)	31 (14%)	19 (8%)	1	26
12	BC	227/243 (93%)	176 (78%)	32 (14%)	19 (8%)	1	26
13	AD	177/181 (98%)	132 (75%)	36 (20%)	9 (5%)	3	42
13	BD	177/181 (98%)	130 (73%)	38 (22%)	9 (5%)	3	42
14	AE	228/296 (77%)	170 (75%)	40 (18%)	18 (8%)	1	28
14	BE	228/296 (77%)	172 (75%)	39 (17%)	17 (8%)	2	30
15	AF	87/101 (86%)	70 (80%)	12 (14%)	5 (6%)	3	39
15	BF	87/101 (86%)	70 (80%)	12 (14%)	5 (6%)	3	39
16	AG	190/200 (95%)	141 (74%)	33 (17%)	16 (8%)	1	26
16	BG	190/200 (95%)	142 (75%)	31 (16%)	17 (9%)	1	25
17	AH	127/130 (98%)	98 (77%)	24 (19%)	5 (4%)	5	51
17	BH	127/130 (98%)	98 (77%)	26 (20%)	3 (2%)	9	63
18	AI	141/145 (97%)	111 (79%)	25 (18%)	5 (4%)	6	55
18	BI	141/145 (97%)	110 (78%)	26 (18%)	5 (4%)	6	55
19	AJ	103/120 (86%)	89 (86%)	6 (6%)	8 (8%)	1	29
19	BJ	103/120 (86%)	89 (86%)	6 (6%)	8 (8%)	1	29
20	AK	138/151 (91%)	96 (70%)	28 (20%)	14 (10%)	1	20
20	BK	138/151 (91%)	95 (69%)	27 (20%)	16 (12%)	1	15
21	AL	139/142 (98%)	106 (76%)	17 (12%)	16 (12%)	1	15
21	BL	139/142 (98%)	106 (76%)	18 (13%)	15 (11%)	1	17
22	AM	152/155 (98%)	109 (72%)	22 (14%)	21 (14%)	0	11
22	BM	152/155 (98%)	110 (72%)	21 (14%)	21 (14%)	0	11
23	AN	51/55 (93%)	30 (59%)	11 (22%)	10 (20%)	0	4
23	BN	51/55 (93%)	31 (61%)	11 (22%)	9 (18%)	0	5
24	AO	148/153 (97%)	112 (76%)	20 (14%)	16 (11%)	1	17
24	BO	148/153 (97%)	113 (76%)	19 (13%)	16 (11%)	1	17
25	AP	146/149 (98%)	115 (79%)	20 (14%)	11 (8%)	2	30

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	BP	146/149 (98%)	115 (79%)	20 (14%)	11 (8%)	2	30
26	AQ	155/157 (99%)	115 (74%)	26 (17%)	14 (9%)	1	24
26	BQ	155/157 (99%)	112 (72%)	27 (17%)	16 (10%)	1	19
27	AR	336/343 (98%)	255 (76%)	48 (14%)	33 (10%)	1	21
27	BR	336/343 (98%)	256 (76%)	48 (14%)	32 (10%)	1	22
28	AS	123/144 (85%)	91 (74%)	25 (20%)	7 (6%)	3	39
28	BS	123/144 (85%)	90 (73%)	25 (20%)	8 (6%)	2	36
29	AT	148/155 (96%)	114 (77%)	17 (12%)	17 (12%)	1	15
29	BT	148/155 (96%)	113 (76%)	20 (14%)	15 (10%)	1	20
30	AU	122/126 (97%)	91 (75%)	20 (16%)	11 (9%)	1	24
30	BU	122/126 (97%)	89 (73%)	22 (18%)	11 (9%)	1	24
31	AV	119/130 (92%)	94 (79%)	16 (13%)	9 (8%)	2	29
31	BV	119/130 (92%)	96 (81%)	14 (12%)	9 (8%)	2	29
32	AW	257/260 (99%)	193 (75%)	40 (16%)	24 (9%)	1	23
32	BW	257/260 (99%)	195 (76%)	38 (15%)	24 (9%)	1	23
33	AX	66/80 (82%)	48 (73%)	12 (18%)	6 (9%)	1	24
33	BX	66/80 (82%)	48 (73%)	12 (18%)	6 (9%)	1	24
34	AY	233/293 (80%)	188 (81%)	31 (13%)	14 (6%)	2	38
34	BY	233/293 (80%)	187 (80%)	32 (14%)	14 (6%)	2	38
35	AZ	95/97 (98%)	70 (74%)	13 (14%)	12 (13%)	0	13
35	BZ	95/97 (98%)	69 (73%)	14 (15%)	12 (13%)	0	13
All	All	10052/11358 (88%)	7627 (76%)	1588 (16%)	837 (8%)	1	27

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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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%)	53 (95%)	3 (5%)	31	78
1	B1	56/57 (98%)	53 (95%)	3 (5%)	31	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A2	184/185 (100%)	171 (93%)	13 (7%)	21	68
2	B2	184/185 (100%)	171 (93%)	13 (7%)	21	68
3	A3	182/183 (100%)	164 (90%)	18 (10%)	11	52
3	B3	182/183 (100%)	165 (91%)	17 (9%)	13	55
4	A4	191/225 (85%)	166 (87%)	25 (13%)	6	37
4	B4	191/225 (85%)	166 (87%)	25 (13%)	6	37
5	A5	88/107 (82%)	80 (91%)	8 (9%)	14	57
5	B5	88/107 (82%)	80 (91%)	8 (9%)	14	57
6	A6	71/72 (99%)	67 (94%)	4 (6%)	30	77
6	B6	71/72 (99%)	67 (94%)	4 (6%)	30	77
7	A7	94/136 (69%)	84 (89%)	10 (11%)	10	48
7	B7	94/136 (69%)	84 (89%)	10 (11%)	10	48
8	A8	80/109 (73%)	68 (85%)	12 (15%)	4	30
8	B8	80/109 (73%)	68 (85%)	12 (15%)	4	30
9	A9	64/138 (46%)	56 (88%)	8 (12%)	7	40
9	B9	64/138 (46%)	56 (88%)	8 (12%)	7	40
11	AB	183/211 (87%)	167 (91%)	16 (9%)	15	59
11	BB	183/211 (87%)	167 (91%)	16 (9%)	15	59
12	AC	197/210 (94%)	178 (90%)	19 (10%)	12	54
12	BC	197/210 (94%)	179 (91%)	18 (9%)	14	57
13	AD	161/162 (99%)	137 (85%)	24 (15%)	4	31
13	BD	161/162 (99%)	137 (85%)	24 (15%)	4	31
14	AE	194/250 (78%)	171 (88%)	23 (12%)	8	42
14	BE	194/250 (78%)	171 (88%)	23 (12%)	8	42
15	AF	80/92 (87%)	72 (90%)	8 (10%)	11	52
15	BF	80/92 (87%)	71 (89%)	9 (11%)	9	44
16	AG	163/169 (96%)	147 (90%)	16 (10%)	12	53
16	BG	163/169 (96%)	146 (90%)	17 (10%)	10	50
17	AH	116/117 (99%)	101 (87%)	15 (13%)	6	38
17	BH	116/117 (99%)	102 (88%)	14 (12%)	7	41
18	AI	120/122 (98%)	115 (96%)	5 (4%)	40	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	BI	120/122 (98%)	115 (96%)	5 (4%)	40	84
19	AJ	98/111 (88%)	93 (95%)	5 (5%)	33	79
19	BJ	98/111 (88%)	93 (95%)	5 (5%)	33	79
20	AK	112/121 (93%)	96 (86%)	16 (14%)	5	33
20	BK	112/121 (93%)	96 (86%)	16 (14%)	5	33
21	AL	113/114 (99%)	101 (89%)	12 (11%)	10	48
21	BL	113/114 (99%)	102 (90%)	11 (10%)	12	53
22	AM	134/135 (99%)	121 (90%)	13 (10%)	12	53
22	BM	134/135 (99%)	121 (90%)	13 (10%)	12	53
23	AN	47/49 (96%)	41 (87%)	6 (13%)	6	38
23	BN	47/49 (96%)	41 (87%)	6 (13%)	6	38
24	AO	134/136 (98%)	127 (95%)	7 (5%)	32	79
24	BO	134/136 (98%)	127 (95%)	7 (5%)	32	79
25	AP	133/134 (99%)	124 (93%)	9 (7%)	22	70
25	BP	133/134 (99%)	124 (93%)	9 (7%)	22	70
26	AQ	141/141 (100%)	125 (89%)	16 (11%)	9	44
26	BQ	141/141 (100%)	126 (89%)	15 (11%)	10	48
27	AR	291/295 (99%)	261 (90%)	30 (10%)	10	50
27	BR	291/295 (99%)	260 (89%)	31 (11%)	10	48
28	AS	105/117 (90%)	102 (97%)	3 (3%)	55	89
28	BS	105/117 (90%)	101 (96%)	4 (4%)	44	85
29	AT	129/134 (96%)	117 (91%)	12 (9%)	13	55
29	BT	129/134 (96%)	116 (90%)	13 (10%)	11	51
30	AU	103/104 (99%)	97 (94%)	6 (6%)	28	75
30	BU	103/104 (99%)	99 (96%)	4 (4%)	43	85
31	AV	108/115 (94%)	100 (93%)	8 (7%)	20	66
31	BV	108/115 (94%)	99 (92%)	9 (8%)	16	62
32	AW	226/227 (100%)	196 (87%)	30 (13%)	6	37
32	BW	226/227 (100%)	197 (87%)	29 (13%)	6	38
33	AX	57/67 (85%)	55 (96%)	2 (4%)	48	87
33	BX	57/67 (85%)	55 (96%)	2 (4%)	48	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	AY	201/244 (82%)	187 (93%)	14 (7%)	21	69
34	BY	201/244 (82%)	187 (93%)	14 (7%)	21	69
35	AZ	82/82 (100%)	76 (93%)	6 (7%)	20	67
35	BZ	82/82 (100%)	76 (93%)	6 (7%)	20	67
All	All	8876/9742 (91%)	8034 (90%)	842 (10%)	12	54

All (842) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	10	ARG
1	A1	29	VAL
1	A1	41	LEU
2	A2	21	HIS
2	A2	31	ARG
2	A2	35	MET
2	A2	55	ARG
2	A2	56	VAL
2	A2	66	LEU
2	A2	74	SER
2	A2	86	ILE
2	A2	109	ILE
2	A2	112	ILE
2	A2	134	ASP
2	A2	146	HIS
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	131	LEU
3	A3	136	LEU
3	A3	144	ARG
3	A3	146	ASP
3	A3	148	THR
3	A3	152	ARG
3	A3	159	ASP
3	A3	174	TYR
3	A3	179	THR
3	A3	181	GLU

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Mol	Chain	Res	Type
3	A3	192	PHE
3	A3	195	PHE
4	A4	38	ILE
4	A4	45	PHE
4	A4	61	GLU
4	A4	63	ILE
4	A4	64	LYS
4	A4	69	GLU
4	A4	74	ASP
4	A4	81	ASP
4	A4	92	ASP
4	A4	97	ARG
4	A4	106	LEU
4	A4	111	ASP
4	A4	116	MET
4	A4	124	ILE
4	A4	129	ASP
4	A4	132	THR
4	A4	134	ASP
4	A4	138	ILE
4	A4	142	THR
4	A4	146	THR
4	A4	150	SER
4	A4	190	PHE
4	A4	194	LEU
4	A4	197	GLU
4	A4	211	PHE
5	A5	15	ARG
5	A5	20	THR
5	A5	39	TYR
5	A5	69	LEU
5	A5	73	LEU
5	A5	77	ILE
5	A5	85	VAL
5	A5	90	CYS
6	A6	2	GLU
6	A6	52	ILE
6	A6	54	CYS
6	A6	77	PHE
7	A7	16	LEU
7	A7	23	VAL
7	A7	40	LEU

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Mol	Chain	Res	Type
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
8	A8	27	LYS
8	A8	30	TRP
8	A8	34	LYS
8	A8	43	VAL
8	A8	45	ILE
8	A8	47	LYS
8	A8	73	LEU
8	A8	78	SER
8	A8	79	LEU
8	A8	89	ASP
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	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	144	CYS
11	AB	150	LEU
11	AB	176	ARG

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Mol	Chain	Res	Type
11	AB	198	PHE
12	AC	3	LYS
12	AC	10	LYS
12	AC	14	PHE
12	AC	34	ASP
12	AC	61	VAL
12	AC	80	PHE
12	AC	82	TYR
12	AC	93	PRO
12	AC	109	ASN
12	AC	118	VAL
12	AC	141	ILE
12	AC	142	SER
12	AC	146	LYS
12	AC	147	GLN
12	AC	153	MET
12	AC	168	ASN
12	AC	171	ILE
12	AC	185	MET
12	AC	196	GLU
13	AD	11	THR
13	AD	17	ARG
13	AD	29	LYS
13	AD	37	LYS
13	AD	38	ASN
13	AD	40	ARG
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	133	HIS
13	AD	142	ASN
13	AD	156	ILE

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Mol	Chain	Res	Type
13	AD	158	PHE
13	AD	161	THR
14	AE	27	TRP
14	AE	31	THR
14	AE	43	SER
14	AE	46	ASP
14	AE	55	ILE
14	AE	56	LYS
14	AE	59	GLU
14	AE	92	GLN
14	AE	98	ARG
14	AE	109	ASN
14	AE	130	ILE
14	AE	153	HIS
14	AE	155	ILE
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	225	TYR
14	AE	230	PHE
14	AE	231	TRP
14	AE	238	GLU
15	AF	36	GLU
15	AF	41	GLU
15	AF	42	PHE
15	AF	44	TYR
15	AF	73	LEU
15	AF	74	ASN
15	AF	79	ASN
15	AF	94	ASP
16	AG	24	ILE
16	AG	26	ASP
16	AG	30	GLN
16	AG	31	ASN
16	AG	36	THR
16	AG	41	GLN
16	AG	44	VAL
16	AG	51	TYR
16	AG	56	PHE

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Mol	Chain	Res	Type
16	AG	57	ARG
16	AG	66	ARG
16	AG	73	PHE
16	AG	74	HIS
16	AG	117	ARG
16	AG	139	MET
16	AG	147	TYR
17	AH	4	VAL
17	AH	6	ILE
17	AH	58	SER
17	AH	59	LYS
17	AH	68	ARG
17	AH	76	SER
17	AH	77	PRO
17	AH	85	ASP
17	AH	92	ASN
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	68	ARG
18	AI	112	MET
19	AJ	20	ARG
19	AJ	27	ASN
19	AJ	55	ARG
19	AJ	72	GLU
19	AJ	103	ASN
20	AK	28	PHE
20	AK	43	HIS
20	AK	46	ASP
20	AK	47	LEU
20	AK	67	GLU
20	AK	80	ASP
20	AK	85	CYS
20	AK	95	ILE
20	AK	113	GLN
20	AK	116	LEU

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Mol	Chain	Res	Type
20	AK	117	ARG
20	AK	119	LEU
20	AK	129	ILE
20	AK	140	THR
20	AK	142	ARG
20	AK	149	ARG
21	AL	9	ILE
21	AL	19	ARG
21	AL	21	ASP
21	AL	33	LEU
21	AL	55	LYS
21	AL	69	LYS
21	AL	81	LYS
21	AL	82	ILE
21	AL	89	ASP
21	AL	92	LEU
21	AL	106	LEU
21	AL	132	LEU
22	AM	16	ARG
22	AM	42	PHE
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	123	ARG
22	AM	125	LEU
22	AM	132	LYS
22	AM	147	VAL
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	14	SER
24	AO	33	SER
24	AO	37	ASP
24	AO	69	THR

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Mol	Chain	Res	Type
24	AO	74	LEU
24	AO	147	THR
25	AP	7	THR
25	AP	24	ASP
25	AP	26	LEU
25	AP	56	TYR
25	AP	78	GLN
25	AP	98	LYS
25	AP	102	ARG
25	AP	121	THR
25	AP	130	ASP
26	AQ	2	ASP
26	AQ	13	ASP
26	AQ	16	PHE
26	AQ	20	LYS
26	AQ	32	ARG
26	AQ	45	LYS
26	AQ	68	LYS
26	AQ	69	ILE
26	AQ	78	LYS
26	AQ	97	ASN
26	AQ	114	PHE
26	AQ	120	ASP
26	AQ	121	ILE
26	AQ	128	ARG
26	AQ	133	THR
26	AQ	135	ARG
27	AR	22	ASP
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	89	CYS
27	AR	111	TYR
27	AR	113	ARG
27	AR	114	PHE
27	AR	126	PHE
27	AR	144	LEU
27	AR	161	HIS

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Mol	Chain	Res	Type
27	AR	163	ASP
27	AR	164	TRP
27	AR	190	VAL
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	281	PHE
27	AR	290	PRO
27	AR	297	GLU
27	AR	311	GLN
27	AR	313	THR
27	AR	339	GLU
28	AS	66	ARG
28	AS	83	THR
28	AS	124	PHE
29	AT	18	PHE
29	AT	22	TYR
29	AT	32	LEU
29	AT	40	TRP
29	AT	56	TRP
29	AT	83	PHE
29	AT	103	ILE
29	AT	110	SER
29	AT	113	ASP
29	AT	114	LEU
29	AT	125	THR
29	AT	137	MET
30	AU	20	ASN
30	AU	70	TYR
30	AU	86	PHE
30	AU	89	ASN
30	AU	100	CYS
30	AU	103	LEU
31	AV	30	PHE
31	AV	36	SER
31	AV	47	ARG
31	AV	86	PRO
31	AV	92	ASP
31	AV	100	ASN

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Mol	Chain	Res	Type
31	AV	105	MET
31	AV	114	ILE
32	AW	12	ILE
32	AW	21	ASN
32	AW	29	THR
32	AW	37	LYS
32	AW	48	LEU
32	AW	51	ARG
32	AW	57	ASN
32	AW	81	ASP
32	AW	89	MET
32	AW	92	VAL
32	AW	106	ASP
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	191	ILE
32	AW	193	ARG
32	AW	207	PHE
32	AW	212	VAL
32	AW	222	THR
32	AW	228	PHE
32	AW	238	ILE
32	AW	239	GLU
32	AW	244	ASP
32	AW	254	ARG
32	AW	258	PHE
33	AX	34	ARG
33	AX	62	TRP
34	AY	9	LEU
34	AY	19	ASP
34	AY	20	ASP
34	AY	45	PHE
34	AY	74	ARG
34	AY	87	ARG
34	AY	91	PHE
34	AY	105	ASP

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Mol	Chain	Res	Type
34	AY	145	PHE
34	AY	152	ASP
34	AY	155	LEU
34	AY	165	PHE
34	AY	181	ARG
34	AY	199	THR
35	AZ	34	TRP
35	AZ	45	SER
35	AZ	59	GLN
35	AZ	67	VAL
35	AZ	74	ARG
35	AZ	78	GLU
1	B1	10	ARG
1	B1	29	VAL
1	B1	41	LEU
2	B2	21	HIS
2	B2	31	ARG
2	B2	35	MET
2	B2	55	ARG
2	B2	56	VAL
2	B2	66	LEU
2	B2	74	SER
2	B2	86	ILE
2	B2	109	ILE
2	B2	112	ILE
2	B2	134	ASP
2	B2	146	HIS
2	B2	185	ARG
3	B3	62	LEU
3	B3	63	ILE
3	B3	80	LEU
3	B3	115	ARG
3	B3	117	ARG
3	B3	131	LEU
3	B3	136	LEU
3	B3	144	ARG
3	B3	146	ASP
3	B3	148	THR
3	B3	152	ARG
3	B3	159	ASP
3	B3	174	TYR
3	B3	179	THR

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Mol	Chain	Res	Type
3	B3	181	GLU
3	B3	192	PHE
3	B3	195	PHE
4	B4	38	ILE
4	B4	45	PHE
4	B4	61	GLU
4	B4	63	ILE
4	B4	64	LYS
4	B4	69	GLU
4	B4	74	ASP
4	B4	81	ASP
4	B4	92	ASP
4	B4	97	ARG
4	B4	106	LEU
4	B4	111	ASP
4	B4	116	MET
4	B4	124	ILE
4	B4	129	ASP
4	B4	132	THR
4	B4	134	ASP
4	B4	138	ILE
4	B4	142	THR
4	B4	146	THR
4	B4	150	SER
4	B4	190	PHE
4	B4	194	LEU
4	B4	197	GLU
4	B4	211	PHE
5	B5	15	ARG
5	B5	20	THR
5	B5	39	TYR
5	B5	69	LEU
5	B5	73	LEU
5	B5	77	ILE
5	B5	85	VAL
5	B5	90	CYS
6	B6	2	GLU
6	B6	52	ILE
6	B6	54	CYS
6	B6	77	PHE
7	B7	16	LEU
7	B7	23	VAL

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Mol	Chain	Res	Type
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
8	B8	27	LYS
8	B8	30	TRP
8	B8	34	LYS
8	B8	43	VAL
8	B8	45	ILE
8	B8	47	LYS
8	B8	73	LEU
8	B8	78	SER
8	B8	79	LEU
8	B8	89	ASP
8	B8	106	SER
8	B8	114	ASP
9	B9	81	THR
9	B9	88	HIS
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	9	ASP
11	BB	12	ARG
11	BB	14	LEU
11	BB	31	ARG
11	BB	39	ASN
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	144	CYS
11	BB	150	LEU

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Mol	Chain	Res	Type
11	BB	176	ARG
11	BB	198	PHE
12	BC	3	LYS
12	BC	10	LYS
12	BC	14	PHE
12	BC	34	ASP
12	BC	61	VAL
12	BC	80	PHE
12	BC	82	TYR
12	BC	93	PRO
12	BC	109	ASN
12	BC	118	VAL
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	185	MET
12	BC	196	GLU
13	BD	11	THR
13	BD	17	ARG
13	BD	29	LYS
13	BD	37	LYS
13	BD	38	ASN
13	BD	40	ARG
13	BD	47	MET
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	133	HIS
13	BD	142	ASN
13	BD	156	ILE

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Mol	Chain	Res	Type
13	BD	158	PHE
13	BD	161	THR
14	BE	27	TRP
14	BE	31	THR
14	BE	43	SER
14	BE	46	ASP
14	BE	55	ILE
14	BE	56	LYS
14	BE	59	GLU
14	BE	92	GLN
14	BE	98	ARG
14	BE	109	ASN
14	BE	130	ILE
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	225	TYR
14	BE	231	TRP
14	BE	238	GLU
14	BE	244	PHE
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
15	BF	94	ASP
16	BG	24	ILE
16	BG	26	ASP
16	BG	30	GLN
16	BG	31	ASN
16	BG	33	ILE
16	BG	36	THR
16	BG	41	GLN
16	BG	44	VAL

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Mol	Chain	Res	Type
16	BG	51	TYR
16	BG	56	PHE
16	BG	57	ARG
16	BG	66	ARG
16	BG	73	PHE
16	BG	74	HIS
16	BG	117	ARG
16	BG	139	MET
16	BG	147	TYR
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	92	ASN
17	BH	97	ARG
17	BH	99	PHE
17	BH	106	THR
17	BH	113	HIS
17	BH	126	LEU
18	BI	11	THR
18	BI	25	ARG
18	BI	62	PHE
18	BI	68	ARG
18	BI	112	MET
19	BJ	20	ARG
19	BJ	27	ASN
19	BJ	55	ARG
19	BJ	72	GLU
19	BJ	103	ASN
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

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Mol	Chain	Res	Type
20	BK	116	LEU
20	BK	117	ARG
20	BK	119	LEU
20	BK	129	ILE
20	BK	140	THR
20	BK	142	ARG
20	BK	149	ARG
21	BL	9	ILE
21	BL	19	ARG
21	BL	33	LEU
21	BL	55	LYS
21	BL	69	LYS
21	BL	81	LYS
21	BL	82	ILE
21	BL	89	ASP
21	BL	92	LEU
21	BL	106	LEU
21	BL	132	LEU
22	BM	16	ARG
22	BM	42	PHE
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	123	ARG
22	BM	125	LEU
22	BM	132	LYS
22	BM	147	VAL
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	14	SER
24	BO	33	SER
24	BO	37	ASP
24	BO	69	THR

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Mol	Chain	Res	Type
24	BO	74	LEU
24	BO	147	THR
25	BP	7	THR
25	BP	24	ASP
25	BP	26	LEU
25	BP	56	TYR
25	BP	78	GLN
25	BP	98	LYS
25	BP	102	ARG
25	BP	121	THR
25	BP	130	ASP
26	BQ	2	ASP
26	BQ	13	ASP
26	BQ	16	PHE
26	BQ	20	LYS
26	BQ	32	ARG
26	BQ	45	LYS
26	BQ	68	LYS
26	BQ	69	ILE
26	BQ	78	LYS
26	BQ	97	ASN
26	BQ	114	PHE
26	BQ	120	ASP
26	BQ	121	ILE
26	BQ	128	ARG
26	BQ	133	THR
27	BR	8	ASP
27	BR	9	ILE
27	BR	22	ASP
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	89	CYS
27	BR	111	TYR
27	BR	113	ARG
27	BR	114	PHE
27	BR	126	PHE
27	BR	144	LEU

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Mol	Chain	Res	Type
27	BR	161	HIS
27	BR	163	ASP
27	BR	164	TRP
27	BR	190	VAL
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	281	PHE
27	BR	290	PRO
27	BR	297	GLU
27	BR	311	GLN
27	BR	313	THR
28	BS	66	ARG
28	BS	83	THR
28	BS	85	TYR
28	BS	124	PHE
29	BT	18	PHE
29	BT	22	TYR
29	BT	32	LEU
29	BT	40	TRP
29	BT	56	TRP
29	BT	61	THR
29	BT	83	PHE
29	BT	103	ILE
29	BT	110	SER
29	BT	113	ASP
29	BT	114	LEU
29	BT	125	THR
29	BT	137	MET
30	BU	20	ASN
30	BU	70	TYR
30	BU	100	CYS
30	BU	103	LEU
31	BV	20	TYR
31	BV	30	PHE
31	BV	36	SER
31	BV	47	ARG
31	BV	86	PRO
31	BV	92	ASP

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Mol	Chain	Res	Type
31	BV	100	ASN
31	BV	105	MET
31	BV	114	ILE
32	BW	12	ILE
32	BW	21	ASN
32	BW	29	THR
32	BW	37	LYS
32	BW	48	LEU
32	BW	51	ARG
32	BW	57	ASN
32	BW	81	ASP
32	BW	89	MET
32	BW	92	VAL
32	BW	106	ASP
32	BW	114	LYS
32	BW	116	LEU
32	BW	123	TYR
32	BW	137	GLN
32	BW	141	ILE
32	BW	176	HIS
32	BW	185	ILE
32	BW	191	ILE
32	BW	193	ARG
32	BW	207	PHE
32	BW	212	VAL
32	BW	222	THR
32	BW	228	PHE
32	BW	238	ILE
32	BW	239	GLU
32	BW	244	ASP
32	BW	254	ARG
32	BW	258	PHE
33	BX	34	ARG
33	BX	62	TRP
34	BY	9	LEU
34	BY	19	ASP
34	BY	20	ASP
34	BY	45	PHE
34	BY	74	ARG
34	BY	87	ARG
34	BY	91	PHE
34	BY	105	ASP

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Mol	Chain	Res	Type
34	BY	145	PHE
34	BY	152	ASP
34	BY	155	LEU
34	BY	165	PHE
34	BY	181	ARG
34	BY	199	THR
35	BZ	34	TRP
35	BZ	45	SER
35	BZ	59	GLN
35	BZ	67	VAL
35	BZ	74	ARG
35	BZ	78	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (276) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	26	GLN
2	A2	79	ASN
2	A2	92	ASN
2	A2	124	HIS
2	A2	204	GLN
3	A3	28	ASN
3	A3	44	GLN
3	A3	49	GLN
3	A3	54	ASN
3	A3	112	GLN
3	A3	154	GLN
4	A4	133	ASN
4	A4	166	GLN
4	A4	175	ASN
4	A4	180	ASN
4	A4	193	ASN
4	A4	215	ASN
5	A5	7	ASN
5	A5	12	GLN
5	A5	14	ASN
6	A6	17	ASN
6	A6	42	GLN
6	A6	47	ASN
6	A6	72	GLN
6	A6	81	ASN
7	A7	15	GLN

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Mol	Chain	Res	Type
7	A7	32	HIS
7	A7	39	ASN
7	A7	41	HIS
7	A7	69	ASN
8	A8	76	ASN
9	A9	105	ASN
11	AB	20	GLN
11	AB	24	ASN
11	AB	26	ASN
11	AB	42	HIS
11	AB	51	GLN
11	AB	137	ASN
11	AB	160	ASN
12	AC	9	ASN
12	AC	77	GLN
12	AC	86	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	88	GLN
14	AE	147	ASN
14	AE	151	ASN
14	AE	153	HIS
14	AE	210	ASN
14	AE	237	ASN
14	AE	253	GLN
15	AF	16	GLN
15	AF	74	ASN
16	AG	10	GLN
16	AG	52	GLN
16	AG	96	HIS
16	AG	102	ASN
16	AG	143	ASN
16	AG	199	ASN
17	AH	24	GLN
17	AH	70	ASN

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Mol	Chain	Res	Type
17	AH	113	HIS
18	AI	10	GLN
18	AI	34	ASN
18	AI	44	GLN
18	AI	47	GLN
18	AI	79	GLN
18	AI	85	GLN
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
22	AM	19	ASN
22	AM	21	ASN
22	AM	55	ASN
22	AM	65	GLN
22	AM	90	ASN
22	AM	99	GLN
22	AM	122	HIS
22	AM	136	GLN
23	AN	12	ASN
24	AO	60	HIS
24	AO	107	ASN
25	AP	20	GLN
25	AP	27	HIS
25	AP	61	GLN
25	AP	136	GLN
26	AQ	4	GLN
26	AQ	12	GLN
26	AQ	62	ASN
26	AQ	97	ASN
26	AQ	153	GLN
27	AR	33	GLN
27	AR	77	HIS
27	AR	130	ASN
27	AR	146	ASN

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Mol	Chain	Res	Type
27	AR	212	HIS
27	AR	218	HIS
27	AR	276	GLN
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	7	GLN
30	AU	20	ASN
30	AU	89	ASN
31	AV	26	ASN
31	AV	48	ASN
31	AV	112	GLN
32	AW	21	ASN
32	AW	36	HIS
32	AW	53	ASN
32	AW	186	GLN
32	AW	204	GLN
32	AW	211	HIS
33	AX	42	ASN
34	AY	13	GLN
34	AY	25	ASN
34	AY	34	GLN
34	AY	65	GLN
34	AY	81	HIS
34	AY	112	GLN
34	AY	180	GLN
34	AY	206	ASN
35	AZ	80	HIS
1	B1	26	GLN
2	B2	79	ASN
2	B2	92	ASN
2	B2	124	HIS
2	B2	204	GLN
3	B3	28	ASN
3	B3	44	GLN
3	B3	49	GLN
3	B3	54	ASN
3	B3	112	GLN

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Mol	Chain	Res	Type
3	B3	154	GLN
4	B4	166	GLN
4	B4	175	ASN
4	B4	180	ASN
4	B4	193	ASN
4	B4	215	ASN
5	B5	7	ASN
5	B5	12	GLN
5	B5	14	ASN
5	B5	82	HIS
6	B6	17	ASN
6	B6	42	GLN
6	B6	47	ASN
6	B6	72	GLN
6	B6	81	ASN
7	B7	15	GLN
7	B7	32	HIS
7	B7	39	ASN
7	B7	41	HIS
7	B7	69	ASN
8	B8	76	ASN
9	B9	105	ASN
11	BB	20	GLN
11	BB	24	ASN
11	BB	26	ASN
11	BB	42	HIS
11	BB	51	GLN
11	BB	137	ASN
11	BB	160	ASN
12	BC	9	ASN
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	68	ASN
14	BE	75	HIS
14	BE	147	ASN
14	BE	151	ASN
14	BE	153	HIS

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Mol	Chain	Res	Type
14	BE	210	ASN
14	BE	237	ASN
14	BE	253	GLN
15	BF	74	ASN
16	BG	10	GLN
16	BG	52	GLN
16	BG	96	HIS
16	BG	102	ASN
16	BG	143	ASN
16	BG	199	ASN
17	BH	24	GLN
17	BH	70	ASN
17	BH	113	HIS
18	BI	10	GLN
18	BI	34	ASN
18	BI	47	GLN
18	BI	79	GLN
18	BI	85	GLN
18	BI	102	ASN
18	BI	141	GLN
19	BJ	27	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	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	136	GLN
26	BQ	12	GLN

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Mol	Chain	Res	Type
26	BQ	62	ASN
26	BQ	97	ASN
26	BQ	153	GLN
27	BR	33	GLN
27	BR	76	ASN
27	BR	77	HIS
27	BR	130	ASN
27	BR	146	ASN
27	BR	212	HIS
27	BR	218	HIS
27	BR	276	GLN
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	141	ASN
29	BT	153	GLN
30	BU	7	GLN
30	BU	20	ASN
30	BU	89	ASN
31	BV	26	ASN
31	BV	48	ASN
31	BV	112	GLN
32	BW	21	ASN
32	BW	36	HIS
32	BW	53	ASN
32	BW	186	GLN
32	BW	204	GLN
32	BW	211	HIS
33	BX	42	ASN
34	BY	13	GLN
34	BY	25	ASN
34	BY	34	GLN
34	BY	65	GLN
34	BY	81	HIS
34	BY	112	GLN
34	BY	206	ASN
35	BZ	80	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
10	AA	1743/1753 (99%)	452 (25%)	194 (11%)
10	BA	1743/1753 (99%)	453 (25%)	194 (11%)
All	All	3486/3506 (99%)	905 (25%)	388 (11%)

All (905) 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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	559	C
10	AA	560	C
10	AA	568	G
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
10	AA	1572	A
10	AA	1573	G
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
10	BA	1571	C
10	BA	1572	A
10	BA	1573	G
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

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Mol	Chain	Res	Type
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
10	BA	1751	U

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A1	67/68 (98%)	-0.13	2 (2%) 48 36	99, 157, 220, 262	0
1	B1	67/68 (98%)	-0.23	1 (1%) 70 54	99, 157, 220, 262	0
2	A2	207/208 (99%)	1.07	37 (17%) 2 4	96, 144, 194, 231	0
2	B2	207/208 (99%)	0.17	3 (1%) 72 56	98, 145, 194, 231	0
3	A3	196/197 (99%)	0.07	1 (0%) 88 77	82, 138, 187, 267	0
3	B3	196/197 (99%)	0.16	5 (2%) 53 40	75, 138, 186, 266	0
4	A4	215/265 (81%)	0.43	9 (4%) 35 27	80, 146, 201, 228	0
4	B4	215/265 (81%)	0.76	21 (9%) 8 10	77, 145, 202, 229	0
5	A5	98/119 (82%)	0.51	6 (6%) 21 19	71, 124, 201, 246	0
5	B5	98/119 (82%)	0.54	4 (4%) 35 28	68, 124, 201, 246	0
6	A6	80/81 (98%)	0.43	1 (1%) 74 58	86, 130, 172, 187	0
6	B6	80/81 (98%)	0.14	0 100 100	86, 128, 172, 186	0
7	A7	104/162 (64%)	0.22	0 100 100	100, 150, 201, 249	0
7	B7	104/162 (64%)	0.33	6 (5%) 22 20	104, 151, 199, 249	0
8	A8	93/143 (65%)	0.17	6 (6%) 18 18	112, 159, 219, 255	0
8	B8	93/143 (65%)	-0.08	1 (1%) 77 61	110, 159, 219, 256	0
9	A9	73/189 (38%)	0.16	3 (4%) 35 28	146, 185, 238, 253	0
9	B9	73/189 (38%)	0.30	6 (8%) 12 12	148, 186, 238, 254	0
10	AA	1745/1753 (99%)	0.04	33 (1%) 64 48	80, 134, 291, 454	0
10	BA	1745/1753 (99%)	-0.08	24 (1%) 72 56	80, 134, 291, 454	0
11	AB	204/241 (84%)	0.05	3 (1%) 70 54	82, 136, 177, 225	0
11	BB	204/241 (84%)	0.10	1 (0%) 88 77	78, 136, 177, 224	0
12	AC	229/243 (94%)	0.02	1 (0%) 90 82	89, 131, 194, 244	0
12	BC	229/243 (94%)	-0.12	0 100 100	87, 132, 195, 246	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	AD	179/181 (98%)	0.54	9 (5%)	28	23	77, 122, 182, 214	0
13	BD	179/181 (98%)	0.12	8 (4%)	32	26	82, 125, 184, 215	0
14	AE	230/296 (77%)	0.32	5 (2%)	59	44	62, 114, 194, 243	0
14	BE	230/296 (77%)	0.23	7 (3%)	48	36	65, 116, 194, 244	0
15	AF	89/101 (88%)	-0.20	0	100	100	87, 136, 190, 230	0
15	BF	89/101 (88%)	-0.21	0	100	100	86, 137, 190, 229	0
16	AG	192/200 (96%)	0.25	7 (3%)	41	32	86, 140, 191, 286	0
16	BG	192/200 (96%)	0.13	6 (3%)	47	36	86, 140, 191, 287	0
17	AH	129/130 (99%)	0.10	0	100	100	65, 105, 154, 194	0
17	BH	129/130 (99%)	0.27	1 (0%)	83	69	62, 106, 154, 193	0
18	AI	143/145 (98%)	1.15	22 (15%)	3	5	87, 135, 188, 222	0
18	BI	143/145 (98%)	1.06	29 (20%)	1	3	87, 135, 189, 221	0
19	AJ	105/120 (87%)	0.13	3 (2%)	49	38	84, 132, 199, 218	0
19	BJ	105/120 (87%)	0.08	2 (1%)	64	48	86, 133, 198, 218	0
20	AK	140/151 (92%)	0.27	6 (4%)	34	27	93, 144, 191, 223	0
20	BK	140/151 (92%)	0.34	2 (1%)	72	56	90, 144, 192, 224	0
21	AL	141/142 (99%)	0.37	2 (1%)	72	56	71, 126, 169, 213	0
21	BL	141/142 (99%)	0.69	15 (10%)	7	9	74, 128, 169, 212	0
22	AM	154/155 (99%)	0.17	2 (1%)	74	58	94, 154, 204, 233	0
22	BM	154/155 (99%)	0.17	2 (1%)	74	58	95, 155, 205, 233	0
23	AN	53/55 (96%)	0.70	3 (5%)	23	20	83, 124, 156, 193	0
23	BN	53/55 (96%)	1.45	13 (24%)	1	3	83, 126, 157, 192	0
24	AO	150/153 (98%)	0.09	3 (2%)	62	46	73, 124, 223, 287	0
24	BO	150/153 (98%)	0.24	2 (1%)	74	58	71, 124, 222, 288	0
25	AP	148/149 (99%)	0.33	11 (7%)	14	14	92, 141, 168, 200	0
25	BP	148/149 (99%)	0.04	2 (1%)	72	56	94, 141, 170, 200	0
26	AQ	157/157 (100%)	0.36	8 (5%)	27	23	69, 129, 214, 227	0
26	BQ	157/157 (100%)	0.39	10 (6%)	19	18	65, 128, 208, 258	0
27	AR	338/343 (98%)	0.20	8 (2%)	56	42	93, 146, 218, 268	0
27	BR	338/343 (98%)	0.03	5 (1%)	70	54	94, 145, 209, 245	0
28	AS	125/144 (86%)	-0.03	0	100	100	117, 165, 222, 245	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	BS	125/144 (86%)	0.70	10 (8%) 12 13	119, 165, 222, 245	0
29	AT	150/155 (96%)	0.78	15 (10%) 8 10	80, 152, 191, 230	0
29	BT	150/155 (96%)	0.59	16 (10%) 6 9	79, 151, 192, 229	0
30	AU	124/126 (98%)	0.37	7 (5%) 24 20	117, 177, 213, 227	0
30	BU	124/126 (98%)	0.19	4 (3%) 45 35	136, 185, 221, 250	0
31	AV	121/130 (93%)	-0.00	3 (2%) 54 41	78, 143, 206, 254	0
31	BV	121/130 (93%)	0.41	5 (4%) 35 28	76, 142, 206, 253	0
32	AW	259/260 (99%)	0.10	3 (1%) 75 60	84, 125, 166, 200	0
32	BW	259/260 (99%)	-0.17	2 (0%) 83 69	87, 126, 167, 199	0
33	AX	68/80 (85%)	0.42	3 (4%) 33 27	106, 155, 242, 271	0
33	BX	68/80 (85%)	0.58	8 (11%) 5 7	107, 158, 243, 271	0
34	AY	235/293 (80%)	0.54	24 (10%) 7 9	108, 159, 237, 316	0
34	BY	235/293 (80%)	0.31	19 (8%) 12 13	110, 159, 237, 315	0
35	AZ	97/97 (100%)	0.13	0 100 100	74, 129, 185, 209	0
35	BZ	97/97 (100%)	-0.05	0 100 100	77, 129, 184, 210	0
All	All	13676/14864 (92%)	0.20	486 (3%) 41 32	62, 139, 215, 454	0

All (486) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
18	AI	140	MET	10.8
18	AI	141	GLN	10.6
10	AA	696	C	10.2
26	AQ	1	MET	10.1
4	B4	15	LYS	10.0
4	A4	15	LYS	9.9
18	AI	134	ARG	9.3
10	AA	708	C	8.8
18	AI	142	LYS	8.6
16	AG	126	ALA	8.6
4	B4	229	LEU	8.3
4	A4	20	LYS	8.2
18	AI	131	CYS	8.1
10	BA	213	U	7.8
4	B4	16	LYS	7.8
18	AI	145	ARG	7.4
28	BS	135	LYS	7.4

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Mol	Chain	Res	Type	RSRZ
34	AY	235	VAL	7.3
18	AI	139	LYS	7.3
34	AY	87	ARG	7.0
10	BA	705	G	7.0
18	AI	133	GLY	6.6
34	AY	234	VAL	6.5
16	AG	127	GLY	6.5
10	AA	694	G	6.4
10	AA	706	U	6.3
21	BL	142	ARG	6.1
29	AT	155	LYS	6.1
10	AA	707	U	6.0
23	AN	55	ARG	6.0
27	BR	303	GLU	6.0
18	AI	143	ALA	5.8
14	BE	24	LYS	5.8
10	AA	648	U	5.7
4	A4	19	LYS	5.7
10	BA	211	U	5.7
16	AG	129	VAL	5.7
10	AA	709	G	5.7
31	AV	122	ALA	5.6
29	AT	89	ARG	5.6
10	AA	705	G	5.6
18	AI	135	GLY	5.6
13	BD	1	MET	5.5
23	BN	19	GLU	5.5
23	BN	55	ARG	5.3
34	AY	86	SER	5.2
18	BI	72	ARG	5.1
21	AL	142	ARG	5.1
4	B4	228	LYS	5.1
34	BY	235	VAL	5.1
18	AI	137	ARG	5.1
13	BD	2	GLY	5.0
4	A4	16	LYS	5.0
27	AR	303	GLU	4.9
9	B9	143	ILE	4.9
29	BT	155	LYS	4.9
7	B7	26	LYS	4.9
34	AY	79	GLU	4.9
31	AV	121	SER	4.8

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Mol	Chain	Res	Type	RSRZ
26	AQ	29	ALA	4.8
11	BB	204	PRO	4.8
26	AQ	26	LYS	4.8
18	AI	132	GLY	4.8
26	AQ	25	LYS	4.8
10	AA	693	C	4.7
23	BN	11	ARG	4.7
34	AY	84	PHE	4.6
18	BI	38	ILE	4.6
34	AY	88	ARG	4.6
10	BA	696	C	4.6
29	AT	87	LYS	4.6
34	AY	233	PRO	4.5
10	AA	695	G	4.5
18	AI	34	ASN	4.4
18	AI	136	ALA	4.4
10	AA	1493	A	4.4
34	BY	234	VAL	4.4
34	AY	81	HIS	4.2
16	AG	128	VAL	4.2
23	BN	15	LYS	4.2
4	B4	226	ARG	4.2
29	BT	92	LEU	4.2
23	BN	18	LYS	4.1
18	BI	134	ARG	4.1
33	BX	53	ASP	4.1
2	A2	62	LYS	4.1
34	BY	81	HIS	4.1
3	A3	197	LYS	4.0
10	BA	692	U	4.0
2	B2	17	ARG	4.0
14	BE	72	GLN	3.9
34	BY	80	GLY	3.9
26	BQ	25	LYS	3.9
24	AO	9	LYS	3.9
14	AE	83	GLN	3.9
29	BT	89	ARG	3.8
10	AA	692	U	3.8
4	B4	17	GLY	3.8
29	AT	73	HIS	3.8
34	BY	79	GLU	3.8
29	BT	87	LYS	3.7

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Mol	Chain	Res	Type	RSRZ
10	AA	1452	G	3.7
2	A2	61	LEU	3.7
29	BT	95	LYS	3.7
26	AQ	22	LEU	3.7
29	AT	95	LYS	3.7
34	BY	233	PRO	3.7
34	AY	77	LEU	3.7
34	AY	93	LYS	3.7
14	BE	71	VAL	3.7
33	BX	56	LYS	3.7
5	B5	19	ARG	3.6
16	BG	129	VAL	3.6
4	A4	21	ARG	3.6
26	AQ	27	THR	3.6
9	B9	144	ASP	3.6
18	BI	71	VAL	3.6
14	BE	69	LYS	3.6
27	AR	179	LYS	3.6
29	BT	96	HIS	3.6
34	BY	87	ARG	3.5
34	BY	131	ARG	3.5
18	AI	144	TYR	3.5
29	AT	92	LEU	3.5
7	B7	29	GLU	3.5
26	BQ	151	ARG	3.5
33	BX	57	ARG	3.5
34	BY	182	LEU	3.5
18	AI	72	ARG	3.5
3	B3	197	LYS	3.5
33	BX	52	THR	3.4
27	AR	111	TYR	3.4
25	AP	113	LYS	3.4
34	AY	83	CYS	3.4
26	BQ	104	ARG	3.4
10	BA	1573	G	3.4
11	AB	204	PRO	3.4
34	BY	88	ARG	3.4
31	BV	122	ALA	3.4
10	AA	413	C	3.4
5	A5	13	LYS	3.4
10	BA	691	A	3.4
29	AT	71	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
18	AI	70	ARG	3.4
18	BI	41	ILE	3.3
20	AK	143	GLU	3.3
10	AA	553	A	3.3
5	A5	72	LYS	3.3
34	AY	85	THR	3.3
27	AR	174	MET	3.3
9	B9	82	THR	3.3
31	BV	63	LYS	3.3
10	BA	1662	C	3.3
20	BK	54	VAL	3.3
4	B4	227	PRO	3.3
18	BI	40	MET	3.3
10	BA	695	G	3.2
2	A2	185	ARG	3.2
13	BD	16	ARG	3.2
2	A2	53	PRO	3.2
28	BS	111	GLU	3.2
7	B7	25	LYS	3.2
20	AK	141	ARG	3.2
29	AT	41	THR	3.2
16	BG	128	VAL	3.2
11	AB	203	LEU	3.2
4	A4	17	GLY	3.2
4	B4	116	MET	3.2
8	A8	39	VAL	3.1
8	B8	37	ASP	3.1
21	BL	95	LEU	3.1
26	BQ	152	LYS	3.1
3	B3	3	LEU	3.1
29	AT	93	ARG	3.1
3	B3	10	GLN	3.1
8	A8	38	LYS	3.1
13	AD	51	LYS	3.1
32	BW	2	ALA	3.1
33	BX	29	LYS	3.1
8	A8	24	LYS	3.1
29	BT	97	GLN	3.1
33	BX	54	PRO	3.1
34	BY	135	PRO	3.1
9	B9	101	TYR	3.1
27	BR	305	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
2	A2	60	HIS	3.1
18	BI	31	LEU	3.1
21	BL	141	LYS	3.1
13	BD	3	LYS	3.0
28	BS	134	GLY	3.0
13	AD	2	GLY	3.0
24	BO	153	GLN	3.0
27	AR	125	ALA	3.0
1	A1	68	ARG	3.0
2	A2	135	ARG	3.0
25	AP	114	ARG	3.0
34	AY	78	SER	3.0
34	AY	131	ARG	3.0
2	A2	186	ALA	3.0
10	AA	689	A	3.0
19	AJ	75	LYS	3.0
11	AB	1	MET	2.9
34	BY	230	ALA	2.9
10	AA	55	U	2.9
2	A2	187	ASP	2.9
18	BI	145	ARG	2.9
21	BL	70	CYS	2.9
5	A5	19	ARG	2.9
23	AN	29	LEU	2.9
2	A2	155	LYS	2.9
29	AT	97	GLN	2.9
18	AI	130	LYS	2.9
10	BA	1175	A	2.9
28	BS	58	TYR	2.9
32	AW	23	LEU	2.9
2	A2	30	GLY	2.8
18	AI	138	SER	2.8
27	AR	132	GLN	2.8
18	BI	73	GLY	2.8
13	AD	138	LYS	2.8
2	A2	153	ARG	2.8
23	BN	4	LYS	2.8
27	BR	304	GLY	2.8
13	AD	16	ARG	2.8
23	BN	10	PRO	2.8
23	BN	9	HIS	2.8
34	BY	158	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
13	AD	1	MET	2.8
4	B4	225	LYS	2.8
13	AD	179	LYS	2.8
27	AR	84	LEU	2.8
8	A8	37	ASP	2.8
21	BL	102	LEU	2.8
26	AQ	23	LEU	2.8
18	BI	131	CYS	2.8
14	AE	24	LYS	2.7
2	A2	87	LEU	2.7
22	BM	100	MET	2.7
14	BE	70	ASP	2.7
25	BP	109	LYS	2.7
26	BQ	154	PHE	2.7
29	BT	86	ASN	2.7
34	AY	91	PHE	2.7
32	AW	6	LYS	2.7
4	B4	224	LEU	2.7
23	BN	13	TYR	2.7
10	BA	271	U	2.7
10	AA	494	A	2.7
10	BA	1174	A	2.7
33	AX	24	LYS	2.7
18	BI	83	ILE	2.7
24	AO	108	ARG	2.7
3	B3	9	LYS	2.7
18	BI	144	TYR	2.7
9	B9	87	LYS	2.7
29	BT	98	ALA	2.7
2	A2	55	ARG	2.7
14	AE	84	ILE	2.7
5	A5	99	PRO	2.7
2	A2	51	ILE	2.7
10	BA	212	A	2.7
7	B7	28	PHE	2.7
2	A2	88	ASP	2.7
18	BI	50	ILE	2.7
2	A2	89	VAL	2.6
4	B4	136	TYR	2.6
25	AP	110	ARG	2.6
21	BL	103	VAL	2.6
16	BG	125	THR	2.6

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Mol	Chain	Res	Type	RSRZ
4	B4	138	ILE	2.6
18	BI	81	TYR	2.6
26	BQ	87	ARG	2.6
25	AP	115	THR	2.6
25	AP	112	ILE	2.6
2	A2	102	LYS	2.6
2	A2	159	LEU	2.6
9	A9	72	LYS	2.6
18	BI	76	TYR	2.6
25	AP	108	LEU	2.6
23	AN	11	ARG	2.6
23	BN	7	ARG	2.6
24	BO	108	ARG	2.6
29	BT	154	ALA	2.6
4	A4	22	THR	2.6
10	BA	494	A	2.6
10	BA	1176	A	2.6
4	B4	19	LYS	2.6
16	BG	127	GLY	2.6
4	B4	130	CYS	2.6
19	BJ	66	ARG	2.6
21	BL	5	LYS	2.6
26	BQ	1	MET	2.6
21	BL	47	HIS	2.6
10	AA	153	U	2.6
29	AT	11	LYS	2.6
10	AA	690	A	2.6
13	AD	178	LYS	2.6
21	AL	109	GLN	2.6
28	BS	121	LEU	2.6
19	AJ	77	TRP	2.6
2	A2	17	ARG	2.5
23	BN	30	ILE	2.5
21	BL	48	ALA	2.5
13	AD	173	LYS	2.5
19	AJ	66	ARG	2.5
10	AA	688	A	2.5
34	AY	53	ALA	2.5
34	BY	145	PHE	2.5
10	BA	648	U	2.5
33	BX	55	LYS	2.5
31	BV	65	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
18	BI	56	LEU	2.5
13	BD	12	TYR	2.5
26	BQ	157	PHE	2.5
4	A4	23	ILE	2.5
10	AA	710	A	2.5
18	AI	71	VAL	2.5
5	B5	17	HIS	2.5
2	A2	111	GLU	2.5
21	BL	2	GLY	2.5
2	A2	8	LYS	2.5
29	BT	93	ARG	2.5
2	A2	138	LEU	2.5
16	BG	122	ARG	2.4
2	A2	52	ARG	2.4
2	A2	132	LYS	2.4
30	AU	75	LYS	2.4
25	AP	127	LYS	2.4
5	B5	74	GLN	2.4
17	BH	2	VAL	2.4
10	AA	258	A	2.4
34	AY	1	MET	2.4
22	AM	132	LYS	2.4
25	AP	109	LYS	2.4
20	AK	142	ARG	2.4
22	BM	36	ARG	2.4
13	BD	4	THR	2.4
2	A2	133	LYS	2.4
2	A2	104	LEU	2.4
34	AY	54	GLY	2.4
29	BT	48	GLU	2.4
29	AT	154	ALA	2.4
2	A2	63	PHE	2.4
18	BI	46	LEU	2.4
9	A9	82	THR	2.4
9	B9	102	LYS	2.4
18	BI	79	GLN	2.4
27	BR	175	LYS	2.4
2	A2	57	ARG	2.4
5	B5	29	GLN	2.4
10	AA	1168	A	2.4
10	BA	1572	A	2.4
2	A2	129	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
10	BA	1177	C	2.3
4	B4	23	ILE	2.3
20	AK	102	GLY	2.3
10	AA	1436	C	2.3
18	BI	42	ASN	2.3
14	BE	93	ALA	2.3
4	B4	28	ARG	2.3
13	AD	20	GLU	2.3
10	AA	691	A	2.3
2	A2	150	ARG	2.3
4	B4	26	LEU	2.3
13	BD	179	LYS	2.3
33	AX	74	ALA	2.3
26	AQ	7	ARG	2.3
16	AG	125	THR	2.3
34	AY	95	LYS	2.3
29	AT	48	GLU	2.3
16	BG	124	GLY	2.3
32	AW	22	LYS	2.3
18	BI	44	GLN	2.3
30	AU	45	CYS	2.3
10	AA	1721	G	2.3
21	BL	123	VAL	2.3
2	A2	158	ALA	2.3
16	AG	155	GLU	2.3
30	AU	93	GLU	2.3
30	BU	22	GLN	2.3
27	BR	302	ALA	2.3
10	BA	1526	G	2.3
28	BS	91	ILE	2.3
29	BT	151	GLN	2.3
12	AC	181	LYS	2.3
27	AR	124	VAL	2.3
1	A1	3	THR	2.3
30	BU	111	GLU	2.3
34	BY	142	LYS	2.3
32	BW	6	LYS	2.2
20	AK	106	LYS	2.2
29	AT	98	ALA	2.2
34	BY	155	LEU	2.2
18	BI	33	VAL	2.2
2	A2	78	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
4	B4	29	LYS	2.2
30	AU	96	LYS	2.2
26	BQ	86	ARG	2.2
26	BQ	155	LEU	2.2
10	AA	1169	C	2.2
18	BI	54	ILE	2.2
29	BT	41	THR	2.2
18	AI	35	GLY	2.2
29	AT	32	LEU	2.2
18	BI	87	LEU	2.2
28	BS	57	LYS	2.2
10	BA	711	C	2.2
14	AE	253	GLN	2.2
2	A2	173	LEU	2.2
4	B4	143	LEU	2.2
14	AE	53	ILE	2.2
29	BT	82	ILE	2.2
34	AY	52	ILE	2.2
2	B2	12	ARG	2.2
9	A9	83	LYS	2.2
31	BV	60	ARG	2.2
6	A6	2	GLU	2.2
5	A5	71	VAL	2.2
30	BU	105	ILE	2.2
2	A2	157	GLN	2.2
1	B1	68	ARG	2.2
4	B4	51	THR	2.2
14	BE	253	GLN	2.1
30	AU	95	LYS	2.1
34	BY	77	LEU	2.1
33	BX	73	ALA	2.1
18	BI	139	LYS	2.1
4	B4	219	ARG	2.1
25	AP	62	TYR	2.1
30	AU	3	ASP	2.1
10	AA	711	C	2.1
7	B7	40	LEU	2.1
25	AP	123	LEU	2.1
22	AM	148	CYS	2.1
10	BA	690	A	2.1
21	BL	140	GLU	2.1
25	BP	115	THR	2.1

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Mol	Chain	Res	Type	RSRZ
18	AI	50	ILE	2.1
10	BA	1664	A	2.1
18	BI	132	GLY	2.1
34	AY	112	GLN	2.1
34	BY	160	VAL	2.1
2	A2	91	TYR	2.1
7	B7	2	VAL	2.1
10	BA	225	C	2.1
13	BD	176	ASN	2.1
31	AV	120	ALA	2.1
18	BI	47	GLN	2.1
8	A8	23	LYS	2.1
2	A2	54	VAL	2.1
21	BL	125	CYS	2.1
18	BI	51	TYR	2.1
34	BY	172	ASP	2.1
2	A2	191	LEU	2.1
10	AA	1036	U	2.1
20	AK	103	VAL	2.1
19	BJ	79	ARG	2.1
21	BL	126	VAL	2.1
10	BA	391	A	2.1
24	AO	11	LYS	2.1
23	BN	26	ARG	2.1
28	BS	77	LYS	2.1
30	AU	51	ASP	2.1
23	BN	16	ASP	2.1
8	A8	35	ALA	2.0
10	AA	1458	A	2.0
10	AA	1564	A	2.0
33	AX	67	LYS	2.0
28	BS	88	MET	2.0
10	AA	387	G	2.0
30	BU	108	TYR	2.0
3	B3	139	LYS	2.0
21	BL	109	GLN	2.0
5	A5	74	GLN	2.0
34	AY	145	PHE	2.0
18	BI	67	ILE	2.0
25	AP	107	GLU	2.0
28	BS	114	PHE	2.0
34	AY	109	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
29	BT	16	ALA	2.0
31	BV	7	LYS	2.0
4	A4	51	THR	2.0
2	B2	57	ARG	2.0
16	AG	45	PRO	2.0
18	BI	43	PRO	2.0
20	BK	47	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
36	MG	BA	1838	1/1	0.33	39.70	172,172,172,172	0
36	MG	BA	1888	1/1	0.90	30.72	227,227,227,227	0
36	MG	AA	1873	1/1	0.44	25.30	196,196,196,196	0
36	MG	BA	1883	1/1	0.42	19.95	187,187,187,187	0
36	MG	AA	1827	1/1	0.32	18.17	178,178,178,178	0
36	MG	BA	1873	1/1	0.37	16.96	218,218,218,218	0
36	MG	BA	1855	1/1	0.42	11.56	275,275,275,275	0
36	MG	BA	1807	1/1	0.18	9.00	210,210,210,210	0
36	MG	AA	1855	1/1	0.41	8.20	214,214,214,214	0
36	MG	AA	1884	1/1	0.47	7.78	190,190,190,190	0
36	MG	AA	1829	1/1	0.16	7.00	160,160,160,160	0
36	MG	AA	1883	1/1	0.51	6.69	209,209,209,209	0
36	MG	BA	1836	1/1	0.29	5.67	175,175,175,175	0
36	MG	AA	1805	1/1	0.37	5.46	175,175,175,175	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
36	MG	BA	1852	1/1	0.22	5.07	170,170,170,170	0
36	MG	BA	1845	1/1	0.27	4.11	225,225,225,225	0
36	MG	BA	1882	1/1	0.31	3.76	196,196,196,196	0
36	MG	BA	1875	1/1	0.29	3.76	193,193,193,193	0
36	MG	AA	1889	1/1	0.25	3.28	200,200,200,200	0
36	MG	BA	1886	1/1	0.18	3.00	214,214,214,214	0
36	MG	BA	1866	1/1	0.18	2.78	186,186,186,186	0
37	ZN	B6	500	1/1	0.24	2.69	108,108,108,108	0
36	MG	AA	1845	1/1	0.27	2.51	193,193,193,193	0
36	MG	BA	1840	1/1	0.18	2.04	128,128,128,128	0
36	MG	BA	1815	1/1	0.31	1.81	155,155,155,155	0
36	MG	BA	1872	1/1	0.33	1.31	200,200,200,200	0
36	MG	AA	1868	1/1	0.57	1.22	197,197,197,197	0
36	MG	BA	1842	1/1	0.19	1.01	210,210,210,210	0
36	MG	AA	1870	1/1	0.27	1.00	195,195,195,195	0
36	MG	BA	1811	1/1	0.38	0.98	170,170,170,170	0
36	MG	BD	201	1/1	0.29	0.93	233,233,233,233	0
36	MG	BA	1879	1/1	0.21	0.48	221,221,221,221	0
36	MG	AA	1853	1/1	0.18	0.45	177,177,177,177	0
36	MG	BA	1810	1/1	0.26	0.42	188,188,188,188	0
37	ZN	A9	500	1/1	0.19	0.40	169,169,169,169	0
36	MG	BA	1803	1/1	0.27	0.34	169,169,169,169	0
36	MG	BA	1812	1/1	0.37	0.27	166,166,166,166	0
36	MG	BA	1868	1/1	0.30	0.25	208,208,208,208	0
36	MG	BA	1850	1/1	0.14	0.24	221,221,221,221	0
36	MG	AA	1856	1/1	0.56	0.21	182,182,182,182	0
36	MG	AA	1869	1/1	0.32	0.20	209,209,209,209	0
36	MG	BA	1832	1/1	0.13	-0.10	194,194,194,194	0
36	MG	AA	1871	1/1	0.19	-0.10	201,201,201,201	0
36	MG	AA	1879	1/1	0.18	-0.11	193,193,193,193	0
36	MG	AA	1812	1/1	0.27	-0.12	173,173,173,173	0
36	MG	AA	1874	1/1	0.17	-0.34	194,194,194,194	0
36	MG	AA	1808	1/1	0.33	-0.38	136,136,136,136	0
37	ZN	B5	500	1/1	0.21	-0.50	87,87,87,87	0
36	MG	AA	1839	1/1	0.16	-0.57	143,143,143,143	0
37	ZN	A6	500	1/1	0.17	-0.59	118,118,118,118	0
36	MG	AA	1809	1/1	0.19	-0.68	193,193,193,193	0
36	MG	AA	1872	1/1	0.16	-0.69	196,196,196,196	0
36	MG	BA	1856	1/1	0.08	-0.72	173,173,173,173	0
37	ZN	B9	500	1/1	0.11	-0.80	247,247,247,247	0
37	ZN	AN	500	1/1	0.17	-0.84	105,105,105,105	0
36	MG	BA	1848	1/1	0.14	-0.86	206,206,206,206	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
36	MG	BA	1808	1/1	0.18	-0.90	140,140,140,140	0
36	MG	BA	1831	1/1	0.16	-0.92	115,115,115,115	0
36	MG	BA	1802	1/1	0.12	-0.94	169,169,169,169	0
36	MG	AA	1815	1/1	0.20	-0.95	144,144,144,144	0
36	MG	AA	1875	1/1	0.22	-0.98	152,152,152,152	0
36	MG	AA	1821	1/1	0.18	-1.03	144,144,144,144	0
36	MG	AA	1882	1/1	0.20	-1.05	181,181,181,181	0
36	MG	AA	1851	1/1	0.19	-1.19	187,187,187,187	0
36	MG	BA	1821	1/1	0.17	-1.26	160,160,160,160	0
36	MG	AA	1802	1/1	0.09	-1.27	175,175,175,175	0
37	ZN	BN	500	1/1	0.13	-1.33	113,113,113,113	0
37	ZN	A5	500	1/1	0.15	-1.41	95,95,95,95	0
36	MG	AA	1820	1/1	0.15	-1.49	157,157,157,157	0
36	MG	AA	1810	1/1	0.15	-1.61	175,175,175,175	0
36	MG	BA	1887	1/1	0.22	-1.75	206,206,206,206	0
36	MG	BA	1881	1/1	0.09	-1.79	149,149,149,149	0
36	MG	AA	1844	1/1	0.11	-1.81	166,166,166,166	0
36	MG	BA	1876	1/1	0.15	-1.89	184,184,184,184	0
36	MG	AA	1831	1/1	0.15	-1.90	111,111,111,111	0
36	MG	A4	301	1/1	0.08	-1.91	174,174,174,174	0
36	MG	AA	1822	1/1	0.11	-1.92	139,139,139,139	0
36	MG	AA	1819	1/1	0.14	-1.93	136,136,136,136	0
36	MG	BA	1816	1/1	0.14	-1.98	127,127,127,127	0
36	MG	AA	1887	1/1	0.13	-2.06	198,198,198,198	0
36	MG	BA	1860	1/1	0.09	-2.09	177,177,177,177	0
36	MG	BA	1844	1/1	0.07	-2.10	157,157,157,157	0
36	MG	AA	1860	1/1	0.10	-2.13	176,176,176,176	0
36	MG	BA	1889	1/1	0.13	-2.18	209,209,209,209	0
36	MG	BA	1828	1/1	0.09	-2.19	145,145,145,145	0
36	MG	AA	1888	1/1	0.16	-2.26	205,205,205,205	0
36	MG	AA	1846	1/1	0.16	-2.27	161,161,161,161	0
36	MG	AA	1823	1/1	0.14	-2.49	130,130,130,130	0
36	MG	AA	1852	1/1	0.09	-2.55	173,173,173,173	0
36	MG	B4	301	1/1	0.10	-2.55	165,165,165,165	0
36	MG	BA	1820	1/1	0.14	-2.62	170,170,170,170	0
36	MG	AL	201	1/1	0.13	-2.65	182,182,182,182	0
36	MG	BA	1853	1/1	0.10	-2.72	194,194,194,194	0
36	MG	BA	1826	1/1	0.10	-2.78	185,185,185,185	0
36	MG	AA	1804	1/1	0.14	-2.78	150,150,150,150	0
36	MG	AA	1806	1/1	0.09	-2.79	151,151,151,151	0
36	MG	BA	1806	1/1	0.08	-2.82	168,168,168,168	0
36	MG	BA	1827	1/1	0.12	-2.83	199,199,199,199	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
36	MG	BA	1819	1/1	0.09	-2.95	122,122,122,122	0
36	MG	AA	1886	1/1	0.10	-2.99	148,148,148,148	0
36	MG	AA	1828	1/1	0.12	-3.06	133,133,133,133	0
36	MG	BA	1859	1/1	0.07	-3.07	194,194,194,194	0
36	MG	BA	1839	1/1	0.07	-3.10	140,140,140,140	0
36	MG	AA	1862	1/1	0.08	-3.10	191,191,191,191	0
36	MG	AA	1816	1/1	0.10	-3.10	96,96,96,96	0
36	MG	AA	1835	1/1	0.09	-3.15	159,159,159,159	0
36	MG	AA	1833	1/1	0.09	-3.18	135,135,135,135	0
36	MG	AA	1866	1/1	0.16	-3.20	197,197,197,197	0
36	MG	BA	1824	1/1	0.12	-3.34	172,172,172,172	0
36	MG	BA	1822	1/1	0.13	-3.48	151,151,151,151	0
36	MG	BA	1867	1/1	0.10	-3.55	180,180,180,180	0
36	MG	AA	1843	1/1	0.07	-3.60	182,182,182,182	0
36	MG	BW	301	1/1	0.06	-3.62	166,166,166,166	0
36	MG	AA	1826	1/1	0.12	-3.65	155,155,155,155	0
36	MG	AA	1885	1/1	0.10	-3.72	223,223,223,223	0
36	MG	AA	1836	1/1	0.14	-3.73	166,166,166,166	0
36	MG	BA	1878	1/1	0.10	-3.80	177,177,177,177	0
36	MG	BA	1851	1/1	0.09	-3.94	169,169,169,169	0
36	MG	AA	1838	1/1	0.12	-3.99	144,144,144,144	0
36	MG	BA	1834	1/1	0.11	-4.05	138,138,138,138	0
36	MG	BA	1846	1/1	0.10	-4.12	147,147,147,147	0
36	MG	BA	1858	1/1	0.10	-4.23	163,163,163,163	0
36	MG	AA	1818	1/1	0.09	-4.26	121,121,121,121	0
36	MG	BA	1854	1/1	0.07	-4.37	189,189,189,189	0
36	MG	BA	1814	1/1	0.05	-4.39	214,214,214,214	0
36	MG	AA	1859	1/1	0.11	-4.42	193,193,193,193	0
36	MG	BA	1833	1/1	0.11	-4.49	172,172,172,172	0
36	MG	AA	1876	1/1	0.12	-4.60	180,180,180,180	0
36	MG	AA	1864	1/1	0.10	-4.66	176,176,176,176	0
36	MG	BA	1818	1/1	0.12	-4.70	111,111,111,111	0
36	MG	AA	1840	1/1	0.10	-4.72	124,124,124,124	0
36	MG	BA	1817	1/1	0.08	-4.84	134,134,134,134	0
36	MG	BA	1804	1/1	0.05	-4.91	191,191,191,191	0
36	MG	BA	1874	1/1	0.12	-4.92	164,164,164,164	0
36	MG	AA	1878	1/1	0.13	-4.92	160,160,160,160	0
36	MG	AA	1847	1/1	0.11	-4.98	186,186,186,186	0
36	MG	BA	1864	1/1	0.08	-5.16	182,182,182,182	0
36	MG	AA	1881	1/1	0.09	-5.17	198,198,198,198	0
36	MG	BA	1837	1/1	0.12	-5.24	178,178,178,178	0
36	MG	BA	1884	1/1	0.06	-5.28	219,219,219,219	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
36	MG	BA	1863	1/1	0.06	-5.46	166,166,166,166	0
36	MG	BA	1830	1/1	0.06	-5.48	204,204,204,204	0
36	MG	BA	1841	1/1	0.08	-5.57	129,129,129,129	0
36	MG	BA	1801	1/1	0.03	-5.64	186,186,186,186	0
36	MG	AA	1814	1/1	0.09	-5.85	197,197,197,197	0
36	MG	AA	1813	1/1	0.06	-5.99	191,191,191,191	0
36	MG	AA	1803	1/1	0.06	-6.03	147,147,147,147	0
36	MG	AA	1837	1/1	0.13	-6.15	149,149,149,149	0
36	MG	AA	1849	1/1	0.13	-6.30	159,159,159,159	0
36	MG	BA	1865	1/1	0.06	-6.33	183,183,183,183	0
36	MG	BA	1849	1/1	0.07	-6.45	198,198,198,198	0
36	MG	AA	1867	1/1	0.05	-6.67	193,193,193,193	0
36	MG	AA	1880	1/1	0.07	-6.68	193,193,193,193	0
36	MG	BA	1885	1/1	0.10	-6.73	161,161,161,161	0
36	MG	AA	1848	1/1	0.09	-7.00	183,183,183,183	0
36	MG	AA	1865	1/1	0.06	-7.07	184,184,184,184	0
36	MG	AA	1877	1/1	0.17	-7.07	170,170,170,170	0
36	MG	AA	1861	1/1	0.12	-7.10	204,204,204,204	0
36	MG	AA	1857	1/1	0.10	-7.37	140,140,140,140	0
36	MG	AA	1858	1/1	0.10	-7.40	162,162,162,162	0
36	MG	BA	1861	1/1	0.12	-7.55	181,181,181,181	0
36	MG	AA	1824	1/1	0.08	-7.56	148,148,148,148	0
36	MG	BA	1825	1/1	0.09	-7.75	153,153,153,153	0
36	MG	BA	1869	1/1	0.19	-7.80	188,188,188,188	0
36	MG	AA	1825	1/1	0.06	-7.91	115,115,115,115	0
36	MG	AA	1832	1/1	0.10	-8.00	189,189,189,189	0
36	MG	BA	1857	1/1	0.09	-8.04	130,130,130,130	0
36	MG	BA	1835	1/1	0.08	-8.29	187,187,187,187	0
36	MG	AA	1890	1/1	0.12	-8.53	218,218,218,218	0
36	MG	BA	1813	1/1	0.10	-8.83	187,187,187,187	0
36	MG	BA	1880	1/1	0.06	-8.85	193,193,193,193	0
36	MG	AA	1801	1/1	0.06	-9.39	160,160,160,160	0
36	MG	BA	1823	1/1	0.10	-9.42	123,123,123,123	0
36	MG	AA	1863	1/1	0.07	-9.57	183,183,183,183	0
36	MG	AA	1850	1/1	0.07	-10.93	185,185,185,185	0
36	MG	BA	1862	1/1	0.08	-11.36	177,177,177,177	0
36	MG	AA	1834	1/1	0.10	-11.55	182,182,182,182	0
36	MG	BA	1870	1/1	0.05	-12.51	205,205,205,205	0
36	MG	AA	1811	1/1	0.15	-13.24	154,154,154,154	0
36	MG	AA	1817	1/1	0.08	-13.35	126,126,126,126	0
36	MG	BA	1847	1/1	0.09	-14.33	204,204,204,204	0
36	MG	AA	1842	1/1	0.04	-15.67	175,175,175,175	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
36	MG	AA	1841	1/1	0.13	-16.11	170,170,170,170	0
36	MG	AA	1854	1/1	0.09	-16.91	158,158,158,158	0
36	MG	BA	1877	1/1	0.11	-24.22	177,177,177,177	0
36	MG	BA	1843	1/1	0.12	-25.00	196,196,196,196	0
36	MG	AA	1807	1/1	0.10	-32.33	194,194,194,194	0
36	MG	BA	1829	1/1	0.05	-43.50	163,163,163,163	0
36	MG	BA	1809	1/1	0.07	-120.00	172,172,172,172	0
36	MG	BA	1871	1/1	0.14	-	209,209,209,209	0
36	MG	AA	1830	1/1	0.09	-	183,183,183,183	0
36	MG	BA	1805	1/1	0.21	-	150,150,150,150	0

6.5 Other polymers ⓘ

There are no such residues in this entry.