



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:14 PM UTC

PDB ID : 5VYC / pdb_00005vyc
Title : Crystal structure of the human 40S ribosomal subunit in complex with DENR-MCT-1.
Authors : Lomakin, I.B.; Stolboushkina, E.A.; Vaidya, A.T.; Garber, M.B.; Dmitriev, S.E.; Steitz, T.A.
Deposited on : 2017-05-24
Resolution : 6.00 Å(reported)

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

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

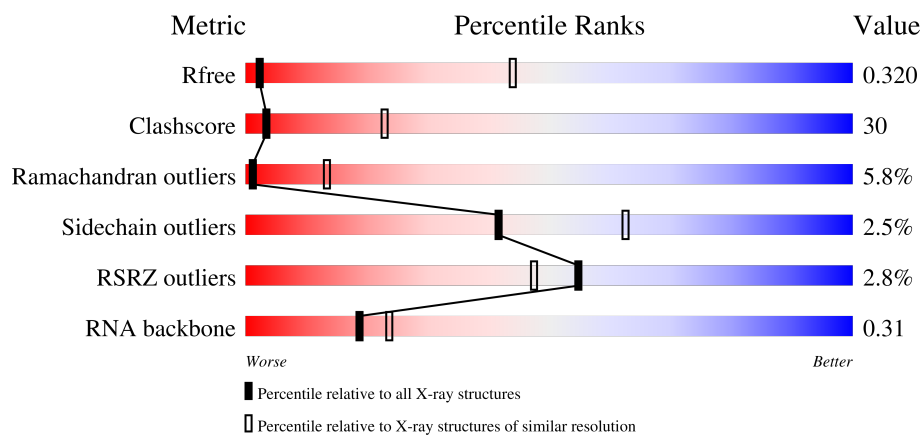
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1143 (8.00-4.00)
Clashscore	190562	1210 (8.00-4.00)
Ramachandran outliers	187476	1034 (8.00-4.00)
Sidechain outliers	187428	1000 (8.00-4.00)
RSRZ outliers	180081	1136 (8.00-4.00)
RNA backbone	3983	1054 (8.70-3.10)

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

Mol	Chain	Length	Quality of chain
1	T1	145	4% 58% 37% ..
1	T2	145	% 57% 39% ..
1	T3	145	6% 54% 43% ..
1	T4	145	2% 54% 41% ..

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Mol	Chain	Length	Quality of chain
1	T5	145	
1	T6	145	
2	U1	119	
2	U2	119	
2	U3	119	
2	U4	119	
2	U5	119	
2	U6	119	
3	V1	83	
3	V2	83	
3	V3	83	
3	V4	83	
3	V5	83	
3	V6	83	
4	X1	143	
4	X2	143	
4	X3	143	
4	X4	143	
4	X5	143	
4	X6	143	
5	a1	115	
5	a2	115	
5	a3	115	
5	a4	115	
5	a5	115	

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Mol	Chain	Length	Quality of chain
5	a6	115	
6	c1	69	
6	c2	69	
6	c3	69	
6	c4	69	
6	c5	69	
6	c6	69	
7	d1	56	
7	d2	56	
7	d3	56	
7	d4	56	
7	d5	56	
7	d6	56	
8	f1	156	
8	f2	156	
8	f3	156	
8	f4	156	
8	f5	156	
8	f6	156	
9	g1	317	
9	g2	317	
9	g3	317	
9	g4	317	
9	g5	317	
9	g6	317	

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Mol	Chain	Length	Quality of chain
10	C1	293	
10	C2	293	
10	C3	293	
10	C4	293	
10	C5	293	
10	C6	293	
11	G1	249	
11	G2	249	
11	G3	249	
11	G4	249	
11	G5	249	
11	G6	249	
12	J1	194	
12	J2	194	
12	J3	194	
12	J4	194	
12	J5	194	
12	J6	194	
13	M1	132	
13	M2	132	
13	M3	132	
13	M4	132	
13	M5	132	
13	M6	132	
14	N1	151	

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Mol	Chain	Length	Quality of chain
14	N2	151	
14	N3	151	
14	N4	151	
14	N5	151	
14	N6	151	
15	O1	151	
15	O2	151	
15	O3	151	
15	O4	151	
15	O5	151	
15	O6	151	
16	W1	130	
16	W2	130	
16	W3	130	
16	W4	130	
16	W5	130	
16	W6	130	
17	Y1	133	
17	Y2	133	
17	Y3	133	
17	Y4	133	
17	Y5	133	
17	Y6	133	
18	Z1	125	
18	Z2	125	

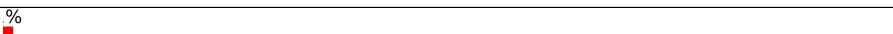
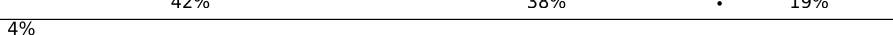
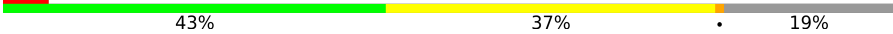
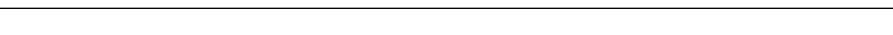
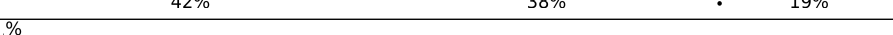
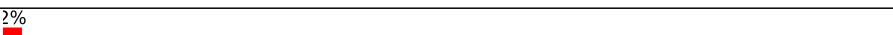
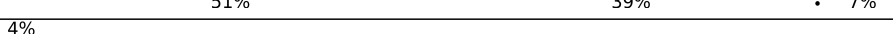
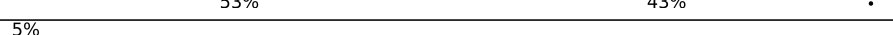
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Mol	Chain	Length	Quality of chain
18	Z3	125	
18	Z4	125	
18	Z5	125	
18	Z6	125	
19	b1	84	
19	b2	84	
19	b3	84	
19	b4	84	
19	b5	84	
19	b6	84	
20	e1	133	
20	e2	133	
20	e3	133	
20	e4	133	
20	e5	133	
20	e6	133	
21	i1	1869	
21	i2	1869	
21	i3	1869	
21	i4	1869	
21	i5	1869	
21	i6	1869	
22	A1	295	
22	A2	295	
22	A3	295	

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Mol	Chain	Length	Quality of chain
22	A4	295	
22	A5	295	
22	A6	295	
23	B1	264	
23	B2	264	
23	B3	264	
23	B4	264	
23	B5	264	
23	B6	264	
24	D1	243	
24	D2	243	
24	D3	243	
24	D4	243	
24	D5	243	
24	D6	243	
25	E1	263	
25	E2	263	
25	E3	263	
25	E4	263	
25	E5	263	
25	E6	263	
26	F1	204	
26	F2	204	
26	F3	204	
26	F4	204	

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Mol	Chain	Length	Quality of chain
26	F5	204	
26	F6	204	
27	H1	194	
27	H2	194	
27	H3	194	
27	H4	194	
27	H5	194	
27	H6	194	
28	I1	208	
28	I2	208	
28	I3	208	
28	I4	208	
28	I5	208	
28	I6	208	
29	K1	165	
29	K2	165	
29	K3	165	
29	K4	165	
29	K5	165	
29	K6	165	
30	L1	158	
30	L2	158	
30	L3	158	
30	L4	158	
30	L5	158	

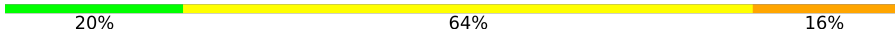
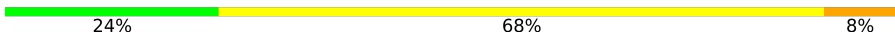
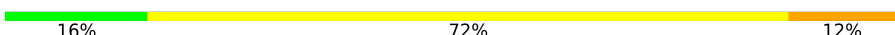
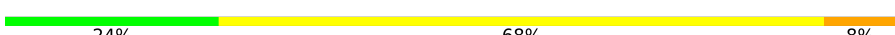
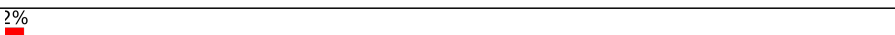
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Mol	Chain	Length	Quality of chain
30	L6	158	
31	P1	145	
31	P2	145	
31	P3	145	
31	P4	145	
31	P5	145	
31	P6	145	
32	Q1	146	
32	Q2	146	
32	Q3	146	
32	Q4	146	
32	Q5	146	
32	Q6	146	
33	R1	135	
33	R2	135	
33	R3	135	
33	R4	135	
33	R5	135	
33	R6	135	
34	S1	152	
34	S2	152	
34	S3	152	
34	S4	152	
34	S5	152	
34	S6	152	

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Mol	Chain	Length	Quality of chain
35	j1	25	
35	j2	25	
35	j3	25	
35	j4	25	
35	j5	25	
35	j6	25	
36	k1	181	
36	k2	181	
36	k3	181	
36	k4	181	
36	k5	181	
36	k6	181	
37	l1	198	
37	l2	198	
37	l3	198	
37	l4	198	
37	l5	198	
37	l6	198	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
38	ZN	f1	500	-	-	X	-
38	ZN	f5	500	-	-	X	-

2 Entry composition [i](#)

There are 38 unique types of molecules in this entry. The entry contains 470574 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called 40S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	T1	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			
1	T2	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			
1	T3	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			
1	T4	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			
1	T5	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			
1	T6	143	Total	C	N	O	S	0	0	0
			1112	697	214	198	3			

- Molecule 2 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	U1	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			
2	U2	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			
2	U3	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			
2	U4	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			
2	U5	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			
2	U6	104	Total	C	N	O	S	0	0	0
			821	514	155	148	4			

- Molecule 3 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	V1	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			
3	V2	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			
3	V3	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			
3	V4	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			
3	V5	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			
3	V6	83	Total	C	N	O	S	0	0	0
			636	393	117	121	5			

- Molecule 4 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	X1	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			
4	X2	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			
4	X3	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			
4	X4	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			
4	X5	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			
4	X6	141	Total	C	N	O	S	0	0	0
			1098	693	219	183	3			

- Molecule 5 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	a1	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			
5	a2	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			
5	a3	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			
5	a4	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			
5	a5	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			
5	a6	107	Total	C	N	O	S	0	0	0
			847	528	176	138	5			

- Molecule 6 is a protein called 40S ribosomal protein S28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	c1	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			
6	c2	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			
6	c3	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			
6	c4	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			
6	c5	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			
6	c6	64	Total	C	N	O	S	0	0	0
			506	308	102	94	2			

- Molecule 7 is a protein called 40S ribosomal protein S29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	d1	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			
7	d2	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			
7	d3	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			
7	d4	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			
7	d5	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			
7	d6	53	Total	C	N	O	S	0	0	0
			445	278	90	72	5			

- Molecule 8 is a protein called Ribosomal protein S27a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	f1	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			
8	f2	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			
8	f3	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			
8	f4	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			
8	f5	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	f6	72	Total	C	N	O	S	0	0	0
			585	366	114	97	8			

- Molecule 9 is a protein called Receptor of activated protein C kinase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	g1	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			
9	g2	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			
9	g3	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			
9	g4	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			
9	g5	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			
9	g6	313	Total	C	N	O	S	0	0	0
			2436	1535	424	465	12			

- Molecule 10 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	C1	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			
10	C2	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			
10	C3	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			
10	C4	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			
10	C5	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			
10	C6	222	Total	C	N	O	S	0	0	0
			1725	1115	298	302	10			

- Molecule 11 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	G1	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			
11	G2	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	G3	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			
11	G4	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			
11	G5	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			
11	G6	237	Total	C	N	O	S	0	0	0
			1923	1200	387	329	7			

- Molecule 12 is a protein called 40S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	J1	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			
12	J2	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			
12	J3	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			
12	J4	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			
12	J5	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			
12	J6	185	Total	C	N	O	S	0	0	0
			1525	969	306	248	2			

- Molecule 13 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	M1	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			
13	M2	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			
13	M3	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			
13	M4	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			
13	M5	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			
13	M6	123	Total	C	N	O	S	0	0	0
			953	598	169	177	9			

- Molecule 14 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	N1	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			
14	N2	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			
14	N3	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			
14	N4	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			
14	N5	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			
14	N6	150	Total	C	N	O	S	0	0	0
			1208	773	229	205	1			

- Molecule 15 is a protein called 40S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	O1	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			
15	O2	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			
15	O3	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			
15	O4	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			
15	O5	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			
15	O6	140	Total	C	N	O	S	0	0	0
			1049	642	204	197	6			

- Molecule 16 is a protein called 40S ribosomal protein S15a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	W1	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			
16	W2	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			
16	W3	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			
16	W4	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			
16	W5	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			
16	W6	129	Total	C	N	O	S	0	0	0
			1034	659	193	176	6			

- Molecule 17 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	Y1	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			
17	Y2	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			
17	Y3	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			
17	Y4	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			
17	Y5	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			
17	Y6	131	Total	C	N	O	S	0	0	0
			1065	673	209	178	5			

- Molecule 18 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	Z1	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			
18	Z2	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			
18	Z3	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			
18	Z4	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			
18	Z5	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			
18	Z6	75	Total	C	N	O	S	0	0	0
			598	382	111	104	1			

- Molecule 19 is a protein called 40S ribosomal protein S27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	b1	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			
19	b2	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			
19	b3	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			
19	b4	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			
19	b5	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	b6	83	Total	C	N	O	S	0	0	0
			651	408	121	115	7			

- Molecule 20 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	e1	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			
20	e2	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			
20	e3	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			
20	e4	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			
20	e5	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			
20	e6	58	Total	C	N	O	S	0	0	0
			459	284	100	74	1			

There are 210 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
e1	-48	ALA	-	insertion	UNP E9PR30
e1	-47	HIS	-	insertion	UNP E9PR30
e1	-46	VAL	-	insertion	UNP E9PR30
e1	-45	ALA	-	insertion	UNP E9PR30
e1	-44	SER	-	insertion	UNP E9PR30
e1	-43	LEU	-	insertion	UNP E9PR30
e1	-42	GLU	-	insertion	UNP E9PR30
e1	-41	GLY	-	insertion	UNP E9PR30
e1	-40	ILE	-	insertion	UNP E9PR30
e1	-39	ALA	-	insertion	UNP E9PR30
e1	-38	PRO	-	insertion	UNP E9PR30
e1	-37	GLU	-	insertion	UNP E9PR30
e1	-36	ASP	-	insertion	UNP E9PR30
e1	-35	GLN	-	insertion	UNP E9PR30
e1	-34	VAL	-	insertion	UNP E9PR30
e1	-33	VAL	-	insertion	UNP E9PR30
e1	-32	LEU	-	insertion	UNP E9PR30
e1	-31	LEU	-	insertion	UNP E9PR30
e1	-30	ALA	-	insertion	UNP E9PR30
e1	-29	GLY	-	insertion	UNP E9PR30

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Chain	Residue	Modelled	Actual	Comment	Reference
e1	-28	ALA	-	insertion	UNP E9PR30
e1	-27	PRO	-	insertion	UNP E9PR30
e1	-26	LEU	-	insertion	UNP E9PR30
e1	-25	GLU	-	insertion	UNP E9PR30
e1	-24	ASP	-	insertion	UNP E9PR30
e1	-23	GLU	-	insertion	UNP E9PR30
e1	-22	ALA	-	insertion	UNP E9PR30
e1	-21	THR	-	insertion	UNP E9PR30
e1	-20	LEU	-	insertion	UNP E9PR30
e1	-19	GLY	-	insertion	UNP E9PR30
e1	-18	GLN	-	insertion	UNP E9PR30
e1	-17	CYS	-	insertion	UNP E9PR30
e1	-16	GLY	-	insertion	UNP E9PR30
e1	-15	VAL	-	insertion	UNP E9PR30
e1	-14	GLU	-	insertion	UNP E9PR30
e2	-48	ALA	-	insertion	UNP E9PR30
e2	-47	HIS	-	insertion	UNP E9PR30
e2	-46	VAL	-	insertion	UNP E9PR30
e2	-45	ALA	-	insertion	UNP E9PR30
e2	-44	SER	-	insertion	UNP E9PR30
e2	-43	LEU	-	insertion	UNP E9PR30
e2	-42	GLU	-	insertion	UNP E9PR30
e2	-41	GLY	-	insertion	UNP E9PR30
e2	-40	ILE	-	insertion	UNP E9PR30
e2	-39	ALA	-	insertion	UNP E9PR30
e2	-38	PRO	-	insertion	UNP E9PR30
e2	-37	GLU	-	insertion	UNP E9PR30
e2	-36	ASP	-	insertion	UNP E9PR30
e2	-35	GLN	-	insertion	UNP E9PR30
e2	-34	VAL	-	insertion	UNP E9PR30
e2	-33	VAL	-	insertion	UNP E9PR30
e2	-32	LEU	-	insertion	UNP E9PR30
e2	-31	LEU	-	insertion	UNP E9PR30
e2	-30	ALA	-	insertion	UNP E9PR30
e2	-29	GLY	-	insertion	UNP E9PR30
e2	-28	ALA	-	insertion	UNP E9PR30
e2	-27	PRO	-	insertion	UNP E9PR30
e2	-26	LEU	-	insertion	UNP E9PR30
e2	-25	GLU	-	insertion	UNP E9PR30
e2	-24	ASP	-	insertion	UNP E9PR30
e2	-23	GLU	-	insertion	UNP E9PR30
e2	-22	ALA	-	insertion	UNP E9PR30

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Chain	Residue	Modelled	Actual	Comment	Reference
e2	-21	THR	-	insertion	UNP E9PR30
e2	-20	LEU	-	insertion	UNP E9PR30
e2	-19	GLY	-	insertion	UNP E9PR30
e2	-18	GLN	-	insertion	UNP E9PR30
e2	-17	CYS	-	insertion	UNP E9PR30
e2	-16	GLY	-	insertion	UNP E9PR30
e2	-15	VAL	-	insertion	UNP E9PR30
e2	-14	GLU	-	insertion	UNP E9PR30
e3	-48	ALA	-	insertion	UNP E9PR30
e3	-47	HIS	-	insertion	UNP E9PR30
e3	-46	VAL	-	insertion	UNP E9PR30
e3	-45	ALA	-	insertion	UNP E9PR30
e3	-44	SER	-	insertion	UNP E9PR30
e3	-43	LEU	-	insertion	UNP E9PR30
e3	-42	GLU	-	insertion	UNP E9PR30
e3	-41	GLY	-	insertion	UNP E9PR30
e3	-40	ILE	-	insertion	UNP E9PR30
e3	-39	ALA	-	insertion	UNP E9PR30
e3	-38	PRO	-	insertion	UNP E9PR30
e3	-37	GLU	-	insertion	UNP E9PR30
e3	-36	ASP	-	insertion	UNP E9PR30
e3	-35	GLN	-	insertion	UNP E9PR30
e3	-34	VAL	-	insertion	UNP E9PR30
e3	-33	VAL	-	insertion	UNP E9PR30
e3	-32	LEU	-	insertion	UNP E9PR30
e3	-31	LEU	-	insertion	UNP E9PR30
e3	-30	ALA	-	insertion	UNP E9PR30
e3	-29	GLY	-	insertion	UNP E9PR30
e3	-28	ALA	-	insertion	UNP E9PR30
e3	-27	PRO	-	insertion	UNP E9PR30
e3	-26	LEU	-	insertion	UNP E9PR30
e3	-25	GLU	-	insertion	UNP E9PR30
e3	-24	ASP	-	insertion	UNP E9PR30
e3	-23	GLU	-	insertion	UNP E9PR30
e3	-22	ALA	-	insertion	UNP E9PR30
e3	-21	THR	-	insertion	UNP E9PR30
e3	-20	LEU	-	insertion	UNP E9PR30
e3	-19	GLY	-	insertion	UNP E9PR30
e3	-18	GLN	-	insertion	UNP E9PR30
e3	-17	CYS	-	insertion	UNP E9PR30
e3	-16	GLY	-	insertion	UNP E9PR30
e3	-15	VAL	-	insertion	UNP E9PR30

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Chain	Residue	Modelled	Actual	Comment	Reference
e3	-14	GLU	-	insertion	UNP E9PR30
e4	-48	ALA	-	insertion	UNP E9PR30
e4	-47	HIS	-	insertion	UNP E9PR30
e4	-46	VAL	-	insertion	UNP E9PR30
e4	-45	ALA	-	insertion	UNP E9PR30
e4	-44	SER	-	insertion	UNP E9PR30
e4	-43	LEU	-	insertion	UNP E9PR30
e4	-42	GLU	-	insertion	UNP E9PR30
e4	-41	GLY	-	insertion	UNP E9PR30
e4	-40	ILE	-	insertion	UNP E9PR30
e4	-39	ALA	-	insertion	UNP E9PR30
e4	-38	PRO	-	insertion	UNP E9PR30
e4	-37	GLU	-	insertion	UNP E9PR30
e4	-36	ASP	-	insertion	UNP E9PR30
e4	-35	GLN	-	insertion	UNP E9PR30
e4	-34	VAL	-	insertion	UNP E9PR30
e4	-33	VAL	-	insertion	UNP E9PR30
e4	-32	LEU	-	insertion	UNP E9PR30
e4	-31	LEU	-	insertion	UNP E9PR30
e4	-30	ALA	-	insertion	UNP E9PR30
e4	-29	GLY	-	insertion	UNP E9PR30
e4	-28	ALA	-	insertion	UNP E9PR30
e4	-27	PRO	-	insertion	UNP E9PR30
e4	-26	LEU	-	insertion	UNP E9PR30
e4	-25	GLU	-	insertion	UNP E9PR30
e4	-24	ASP	-	insertion	UNP E9PR30
e4	-23	GLU	-	insertion	UNP E9PR30
e4	-22	ALA	-	insertion	UNP E9PR30
e4	-21	THR	-	insertion	UNP E9PR30
e4	-20	LEU	-	insertion	UNP E9PR30
e4	-19	GLY	-	insertion	UNP E9PR30
e4	-18	GLN	-	insertion	UNP E9PR30
e4	-17	CYS	-	insertion	UNP E9PR30
e4	-16	GLY	-	insertion	UNP E9PR30
e4	-15	VAL	-	insertion	UNP E9PR30
e4	-14	GLU	-	insertion	UNP E9PR30
e5	-48	ALA	-	insertion	UNP E9PR30
e5	-47	HIS	-	insertion	UNP E9PR30
e5	-46	VAL	-	insertion	UNP E9PR30
e5	-45	ALA	-	insertion	UNP E9PR30
e5	-44	SER	-	insertion	UNP E9PR30
e5	-43	LEU	-	insertion	UNP E9PR30

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Chain	Residue	Modelled	Actual	Comment	Reference
e5	-42	GLU	-	insertion	UNP E9PR30
e5	-41	GLY	-	insertion	UNP E9PR30
e5	-40	ILE	-	insertion	UNP E9PR30
e5	-39	ALA	-	insertion	UNP E9PR30
e5	-38	PRO	-	insertion	UNP E9PR30
e5	-37	GLU	-	insertion	UNP E9PR30
e5	-36	ASP	-	insertion	UNP E9PR30
e5	-35	GLN	-	insertion	UNP E9PR30
e5	-34	VAL	-	insertion	UNP E9PR30
e5	-33	VAL	-	insertion	UNP E9PR30
e5	-32	LEU	-	insertion	UNP E9PR30
e5	-31	LEU	-	insertion	UNP E9PR30
e5	-30	ALA	-	insertion	UNP E9PR30
e5	-29	GLY	-	insertion	UNP E9PR30
e5	-28	ALA	-	insertion	UNP E9PR30
e5	-27	PRO	-	insertion	UNP E9PR30
e5	-26	LEU	-	insertion	UNP E9PR30
e5	-25	GLU	-	insertion	UNP E9PR30
e5	-24	ASP	-	insertion	UNP E9PR30
e5	-23	GLU	-	insertion	UNP E9PR30
e5	-22	ALA	-	insertion	UNP E9PR30
e5	-21	THR	-	insertion	UNP E9PR30
e5	-20	LEU	-	insertion	UNP E9PR30
e5	-19	GLY	-	insertion	UNP E9PR30
e5	-18	GLN	-	insertion	UNP E9PR30
e5	-17	CYS	-	insertion	UNP E9PR30
e5	-16	GLY	-	insertion	UNP E9PR30
e5	-15	VAL	-	insertion	UNP E9PR30
e5	-14	GLU	-	insertion	UNP E9PR30
e6	-48	ALA	-	insertion	UNP E9PR30
e6	-47	HIS	-	insertion	UNP E9PR30
e6	-46	VAL	-	insertion	UNP E9PR30
e6	-45	ALA	-	insertion	UNP E9PR30
e6	-44	SER	-	insertion	UNP E9PR30
e6	-43	LEU	-	insertion	UNP E9PR30
e6	-42	GLU	-	insertion	UNP E9PR30
e6	-41	GLY	-	insertion	UNP E9PR30
e6	-40	ILE	-	insertion	UNP E9PR30
e6	-39	ALA	-	insertion	UNP E9PR30
e6	-38	PRO	-	insertion	UNP E9PR30
e6	-37	GLU	-	insertion	UNP E9PR30
e6	-36	ASP	-	insertion	UNP E9PR30

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Chain	Residue	Modelled	Actual	Comment	Reference
e6	-35	GLN	-	insertion	UNP E9PR30
e6	-34	VAL	-	insertion	UNP E9PR30
e6	-33	VAL	-	insertion	UNP E9PR30
e6	-32	LEU	-	insertion	UNP E9PR30
e6	-31	LEU	-	insertion	UNP E9PR30
e6	-30	ALA	-	insertion	UNP E9PR30
e6	-29	GLY	-	insertion	UNP E9PR30
e6	-28	ALA	-	insertion	UNP E9PR30
e6	-27	PRO	-	insertion	UNP E9PR30
e6	-26	LEU	-	insertion	UNP E9PR30
e6	-25	GLU	-	insertion	UNP E9PR30
e6	-24	ASP	-	insertion	UNP E9PR30
e6	-23	GLU	-	insertion	UNP E9PR30
e6	-22	ALA	-	insertion	UNP E9PR30
e6	-21	THR	-	insertion	UNP E9PR30
e6	-20	LEU	-	insertion	UNP E9PR30
e6	-19	GLY	-	insertion	UNP E9PR30
e6	-18	GLN	-	insertion	UNP E9PR30
e6	-17	CYS	-	insertion	UNP E9PR30
e6	-16	GLY	-	insertion	UNP E9PR30
e6	-15	VAL	-	insertion	UNP E9PR30
e6	-14	GLU	-	insertion	UNP E9PR30

- Molecule 21 is a RNA chain called Human 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	i1	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			
21	i2	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			
21	i3	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			
21	i4	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			
21	i5	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			
21	i6	1742	Total	C	N	O	P	0	0	0
			36900	16458	6595	12106	1741			

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
i1	582	C	U	conflict	GB 36162

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Chain	Residue	Modelled	Actual	Comment	Reference
i1	583	C	A	conflict	GB 36162
i1	584	G	A	conflict	GB 36162
i1	798	A	G	conflict	GB 36162
i1	1095	U	C	conflict	GB 36162
i2	582	C	U	conflict	GB 36162
i2	583	C	A	conflict	GB 36162
i2	584	G	A	conflict	GB 36162
i2	798	A	G	conflict	GB 36162
i2	1095	U	C	conflict	GB 36162
i3	582	C	U	conflict	GB 36162
i3	583	C	A	conflict	GB 36162
i3	584	G	A	conflict	GB 36162
i3	798	A	G	conflict	GB 36162
i3	1095	U	C	conflict	GB 36162
i4	582	C	U	conflict	GB 36162
i4	583	C	A	conflict	GB 36162
i4	584	G	A	conflict	GB 36162
i4	798	A	G	conflict	GB 36162
i4	1095	U	C	conflict	GB 36162
i5	582	C	U	conflict	GB 36162
i5	583	C	A	conflict	GB 36162
i5	584	G	A	conflict	GB 36162
i5	798	A	G	conflict	GB 36162
i5	1095	U	C	conflict	GB 36162
i6	582	C	U	conflict	GB 36162
i6	583	C	A	conflict	GB 36162
i6	584	G	A	conflict	GB 36162
i6	798	A	G	conflict	GB 36162
i6	1095	U	C	conflict	GB 36162

- Molecule 22 is a protein called 40S ribosomal protein SA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	A1	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			
22	A2	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			
22	A3	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			
22	A4	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			
22	A5	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	A6	222	Total	C	N	O	S	0	0	0
			1747	1109	306	324	8			

- Molecule 23 is a protein called 40S ribosomal protein S3a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	B1	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			
23	B2	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			
23	B3	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			
23	B4	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			
23	B5	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			
23	B6	214	Total	C	N	O	S	0	0	0
			1738	1103	310	311	14			

- Molecule 24 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D1	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			
24	D2	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			
24	D3	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			
24	D4	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			
24	D5	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			
24	D6	227	Total	C	N	O	S	0	0	0
			1765	1125	317	315	8			

- Molecule 25 is a protein called 40S ribosomal protein S4, X isoform.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	E1	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			
25	E2	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	E3	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			
25	E4	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			
25	E5	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			
25	E6	262	Total	C	N	O	S	0	0	0
			2076	1324	386	358	8			

- Molecule 26 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	F1	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			
26	F2	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			
26	F3	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			
26	F4	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			
26	F5	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			
26	F6	191	Total	C	N	O	S	0	0	0
			1509	943	286	273	7			

- Molecule 27 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	H1	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			
27	H2	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			
27	H3	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			
27	H4	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			
27	H5	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			
27	H6	189	Total	C	N	O	S	0	0	0
			1521	969	280	271	1			

- Molecule 28 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	I1	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			
28	I2	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			
28	I3	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			
28	I4	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			
28	I5	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			
28	I6	206	Total	C	N	O	S	0	0	0
			1686	1058	332	291	5			

- Molecule 29 is a protein called 40S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	K1	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			
29	K2	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			
29	K3	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			
29	K4	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			
29	K5	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			
29	K6	98	Total	C	N	O	S	0	0	0
			827	539	148	134	6			

- Molecule 30 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	L1	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			
30	L2	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			
30	L3	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			
30	L4	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			
30	L5	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			
30	L6	153	Total	C	N	O	S	0	0	0
			1247	793	234	214	6			

- Molecule 31 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	P1	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			
31	P2	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			
31	P3	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			
31	P4	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			
31	P5	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			
31	P6	125	Total	C	N	O	S	0	0	0
			1033	656	196	174	7			

- Molecule 32 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	Q1	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			
32	Q2	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			
32	Q3	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			
32	Q4	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			
32	Q5	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			
32	Q6	146	Total	C	N	O	S	0	0	0
			1158	736	218	200	4			

- Molecule 33 is a protein called 40S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	R1	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			
33	R2	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			
33	R3	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			
33	R4	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			
33	R5	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	R6	132	Total	C	N	O	S	0	0	0
			1072	673	199	195	5			

- Molecule 34 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	S1	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			
34	S2	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			
34	S3	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			
34	S4	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			
34	S5	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			
34	S6	143	Total	C	N	O	S	0	0	0
			1184	743	240	200	1			

- Molecule 35 is a protein called 60S ribosomal protein L41.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	j1	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			
35	j2	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			
35	j3	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			
35	j4	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			
35	j5	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			
35	j6	25	Total	C	N	O	S	0	0	0
			239	145	64	27	3			

- Molecule 36 is a protein called Malignant T-cell-amplified sequence 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	k1	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			
36	k2	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	k3	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			
36	k4	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			
36	k5	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			
36	k6	181	Total	C	N	O	S	0	0	0
			1421	926	234	250	11			

- Molecule 37 is a protein called Density-regulated protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	l1	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			
37	l2	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			
37	l3	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			
37	l4	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			
37	l5	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			
37	l6	79	Total	C	N	O	S	0	0	0
			629	400	102	125	2			

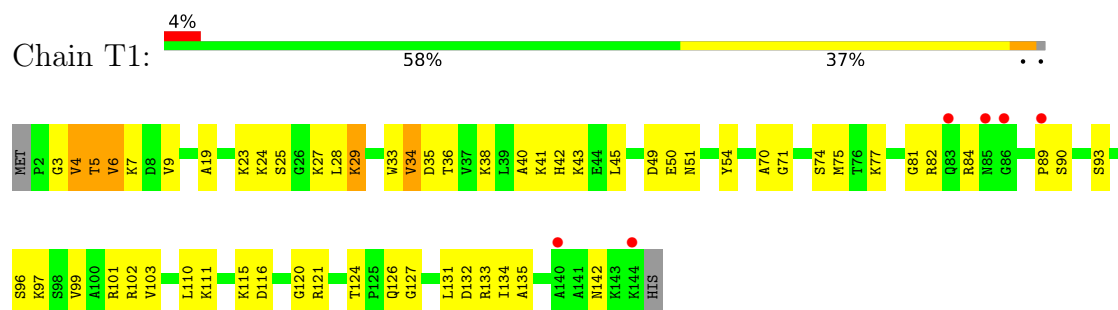
- Molecule 38 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
38	f1	1	Total	Zn	0	0
			1	1		
38	f2	1	Total	Zn	0	0
			1	1		
38	f3	1	Total	Zn	0	0
			1	1		
38	f4	1	Total	Zn	0	0
			1	1		
38	f5	1	Total	Zn	0	0
			1	1		
38	f6	1	Total	Zn	0	0
			1	1		

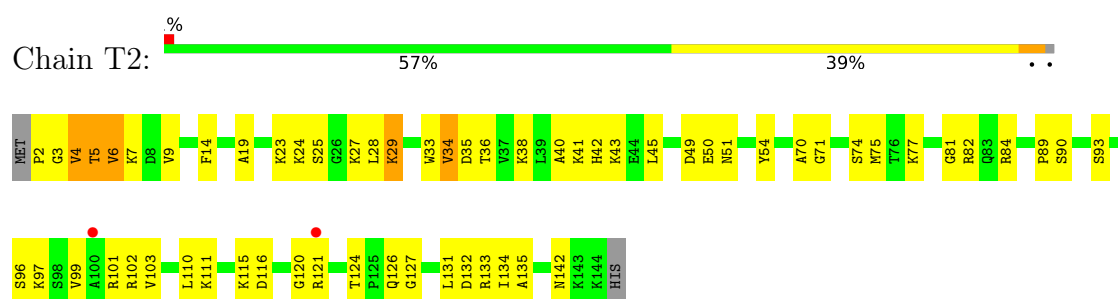
3 Residue-property plots [i](#)

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

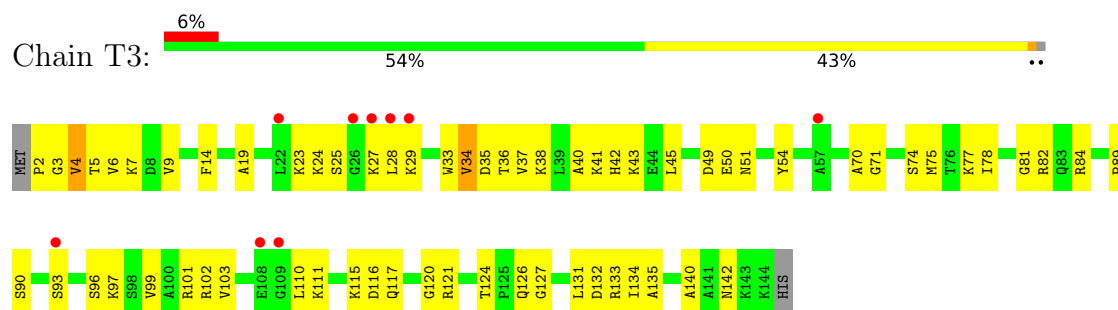
- Molecule 1: 40S ribosomal protein S19



- Molecule 1: 40S ribosomal protein S19

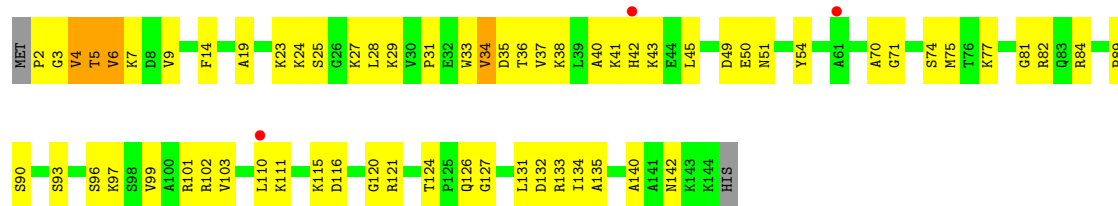


- Molecule 1: 40S ribosomal protein S19

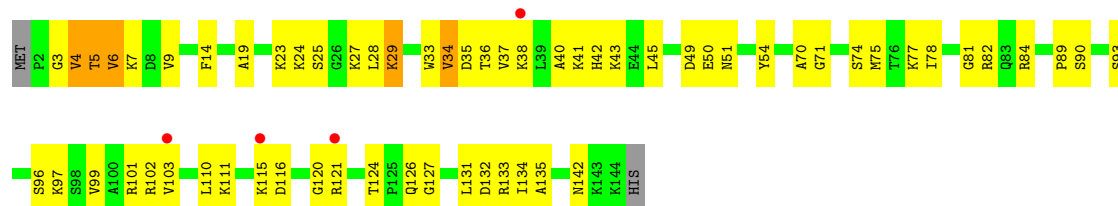


- Molecule 1: 40S ribosomal protein S19

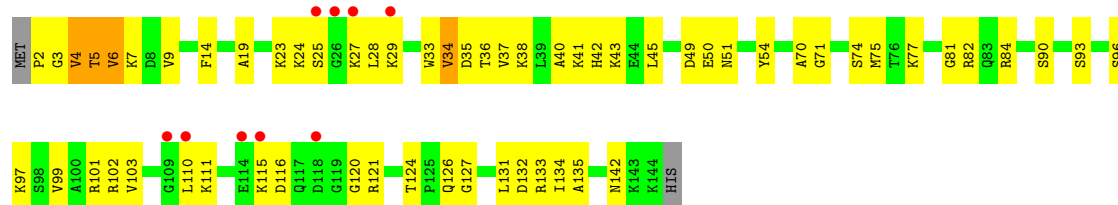




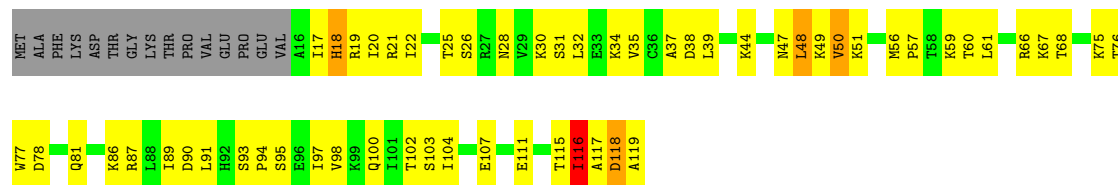
• Molecule 1: 40S ribosomal protein S19



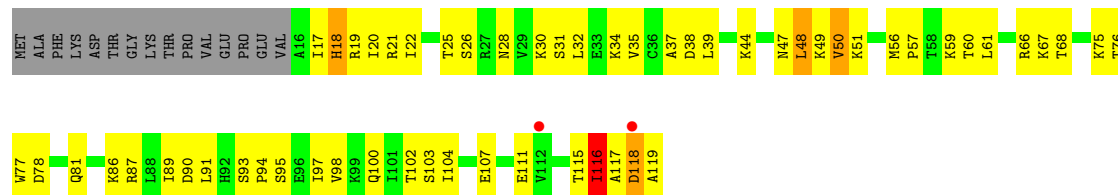
• Molecule 1: 40S ribosomal protein S19



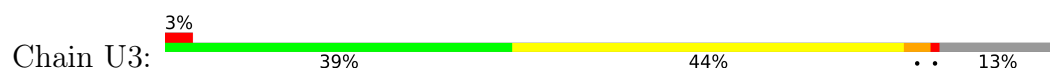
• Molecule 2: 40S ribosomal protein S20



• Molecule 2: 40S ribosomal protein S20



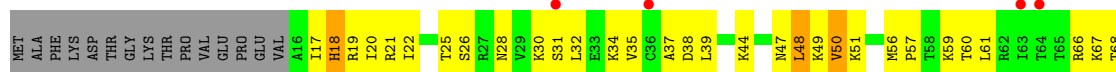
- Molecule 2: 40S ribosomal protein S20



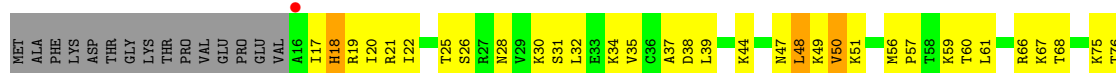
- Molecule 2: 40S ribosomal protein S20



- Molecule 2: 40S ribosomal protein S20



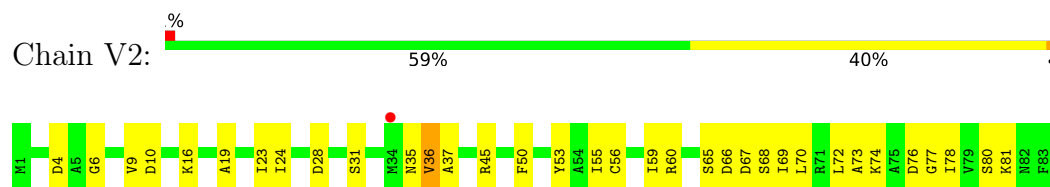
- Molecule 2: 40S ribosomal protein S20



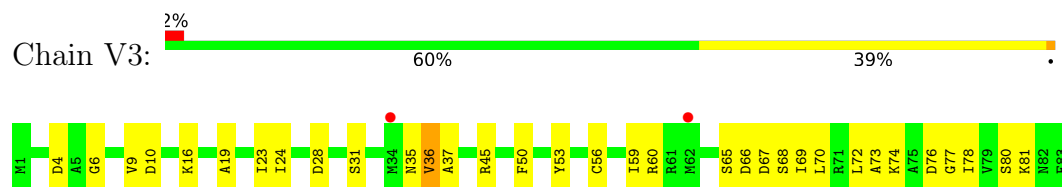
- Molecule 3: 40S ribosomal protein S21



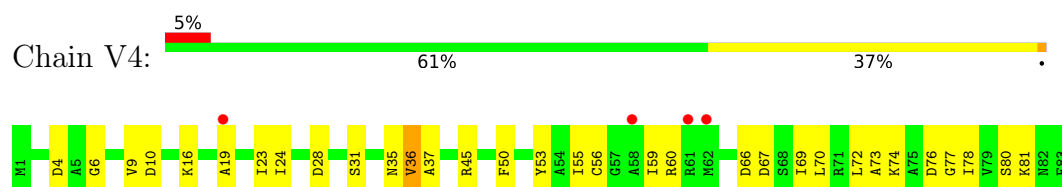
• Molecule 3: 40S ribosomal protein S21



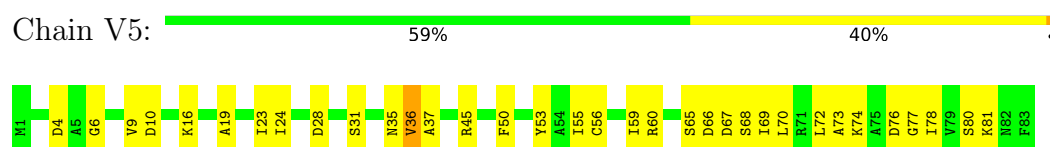
• Molecule 3: 40S ribosomal protein S21



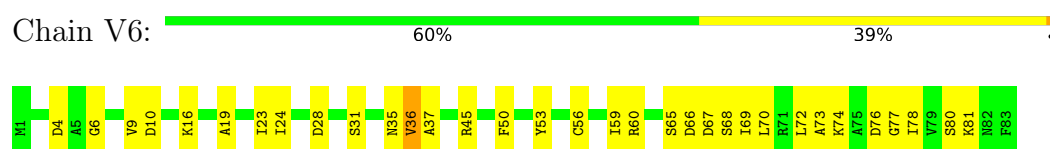
• Molecule 3: 40S ribosomal protein S21



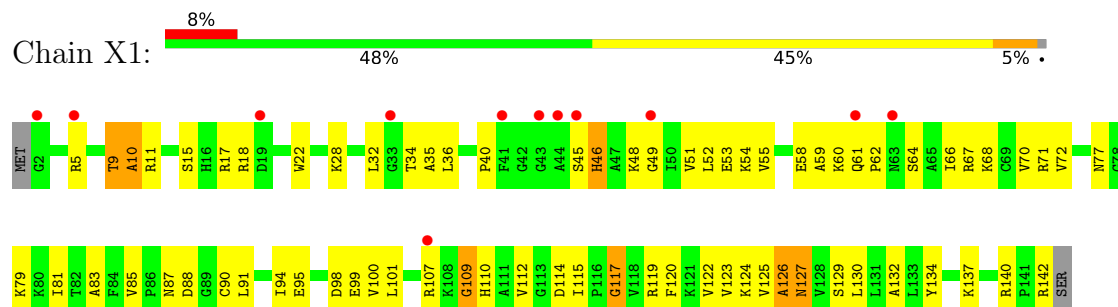
• Molecule 3: 40S ribosomal protein S21



• Molecule 3: 40S ribosomal protein S21

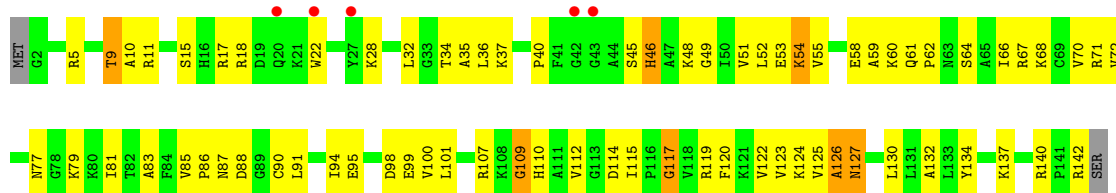


• Molecule 4: 40S ribosomal protein S23

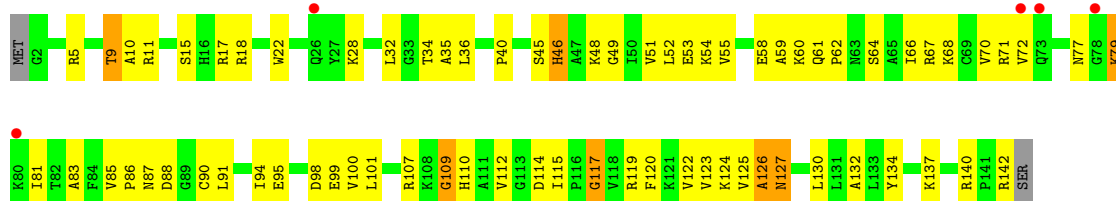


• Molecule 4: 40S ribosomal protein S23

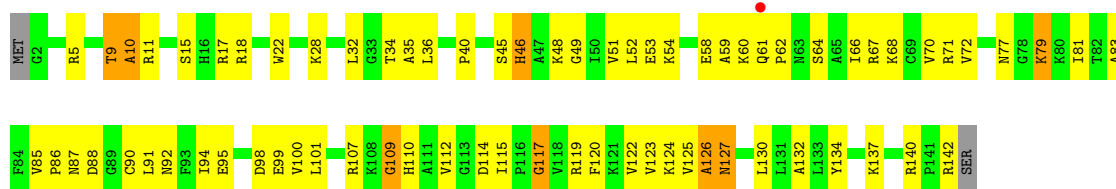




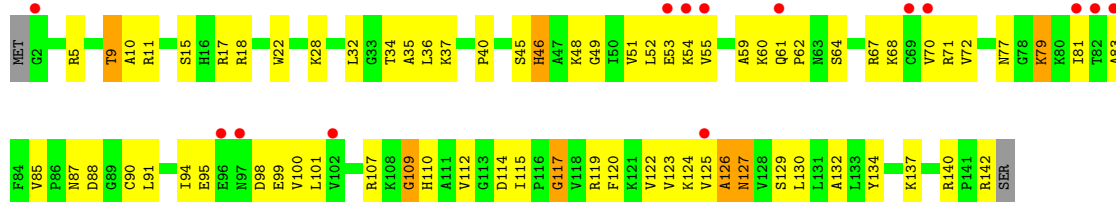
• Molecule 4: 40S ribosomal protein S23



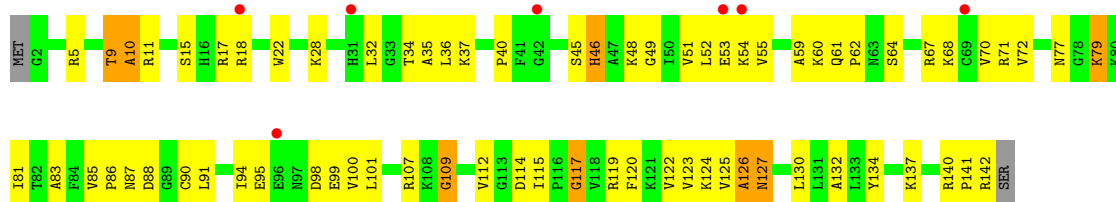
• Molecule 4: 40S ribosomal protein S23



• Molecule 4: 40S ribosomal protein S23

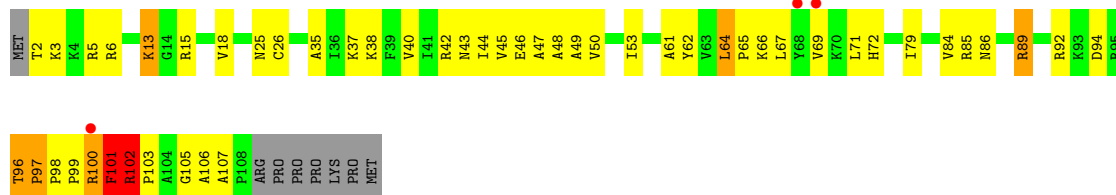


• Molecule 4: 40S ribosomal protein S23



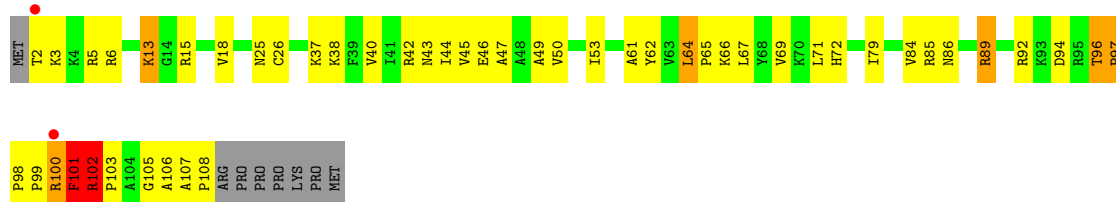
- Molecule 5: 40S ribosomal protein S26

Chain a1: 



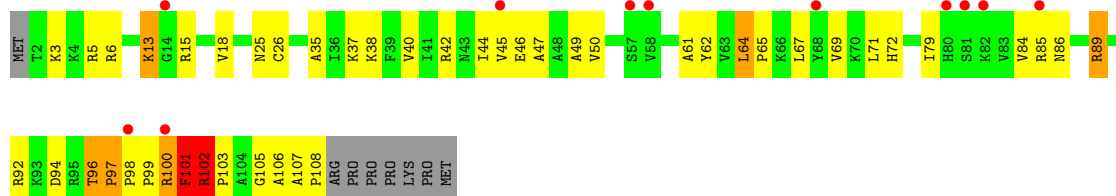
- Molecule 5: 40S ribosomal protein S26

Chain a2: 



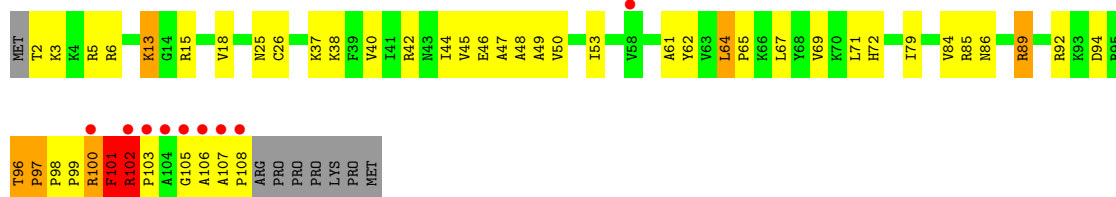
- Molecule 5: 40S ribosomal protein S26

Chain a3: 



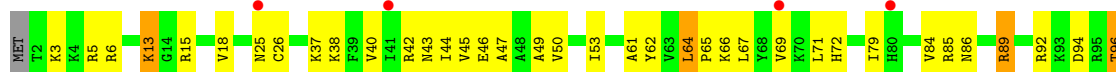
- Molecule 5: 40S ribosomal protein S26

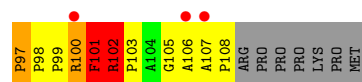
Chain a4: 



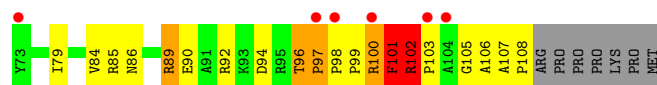
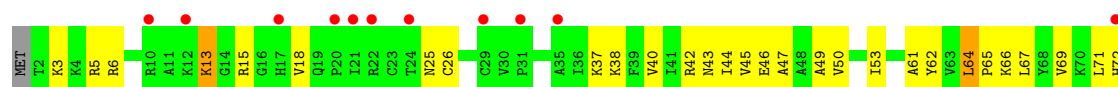
- Molecule 5: 40S ribosomal protein S26

Chain a5: 

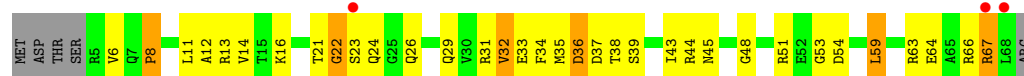
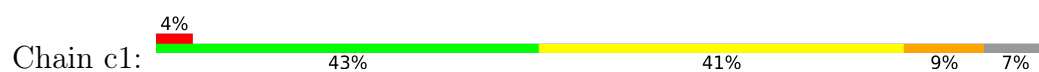




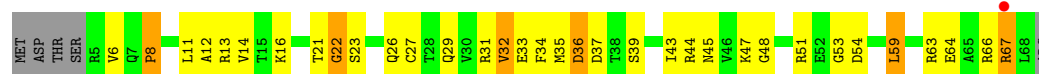
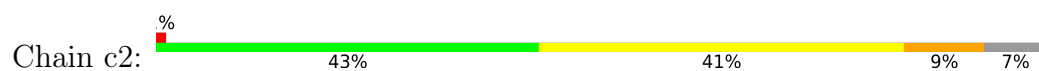
• Molecule 5: 40S ribosomal protein S26



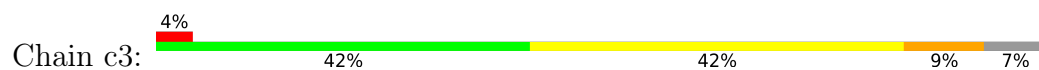
• Molecule 6: 40S ribosomal protein S28



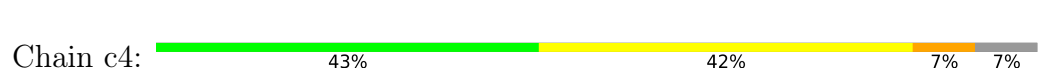
• Molecule 6: 40S ribosomal protein S28



• Molecule 6: 40S ribosomal protein S28



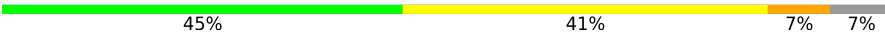
• Molecule 6: 40S ribosomal protein S28



• Molecule 6: 40S ribosomal protein S28



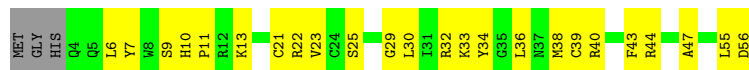
- Molecule 6: 40S ribosomal protein S28

Chain c6: 



- Molecule 7: 40S ribosomal protein S29

Chain d1: 

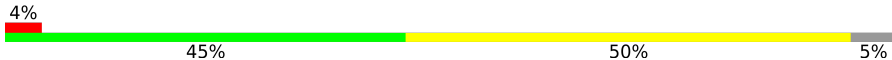


- Molecule 7: 40S ribosomal protein S29

Chain d2: 



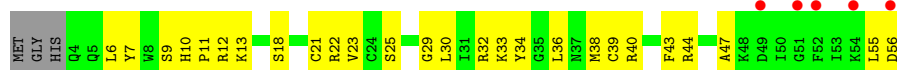
- Molecule 7: 40S ribosomal protein S29

Chain d3: 



- Molecule 7: 40S ribosomal protein S29

Chain d4: 



- Molecule 7: 40S ribosomal protein S29

Chain d5: 

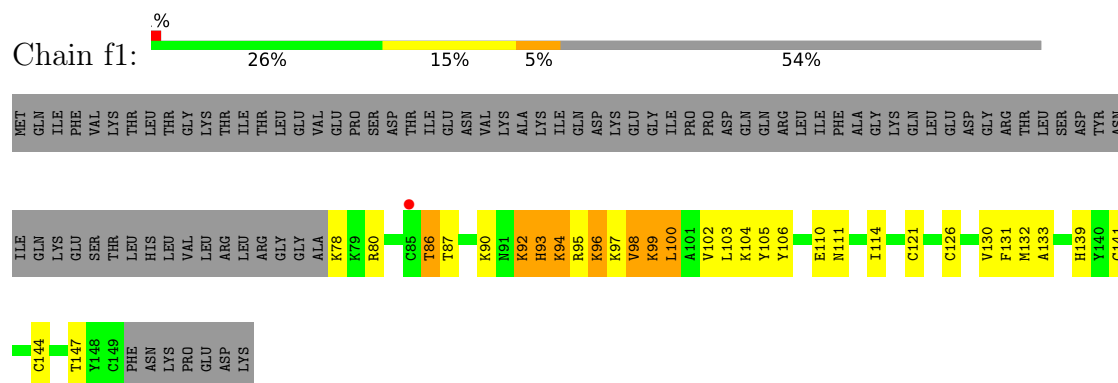


- Molecule 7: 40S ribosomal protein S29

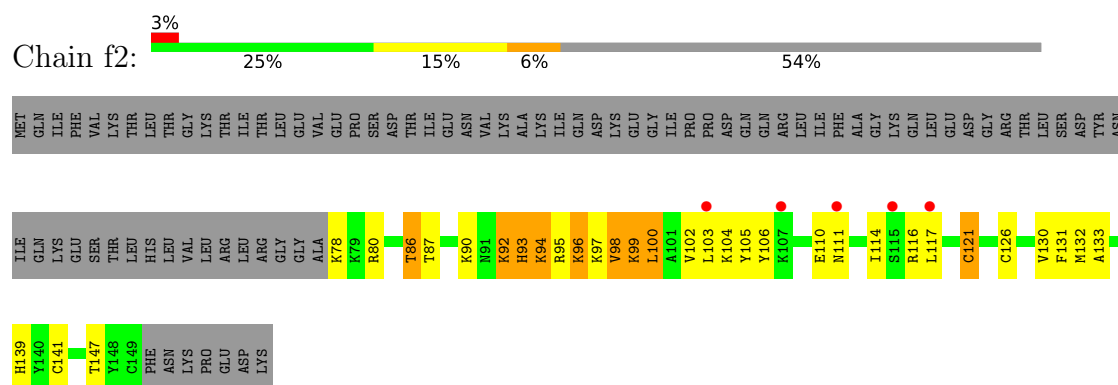
Chain d6: 



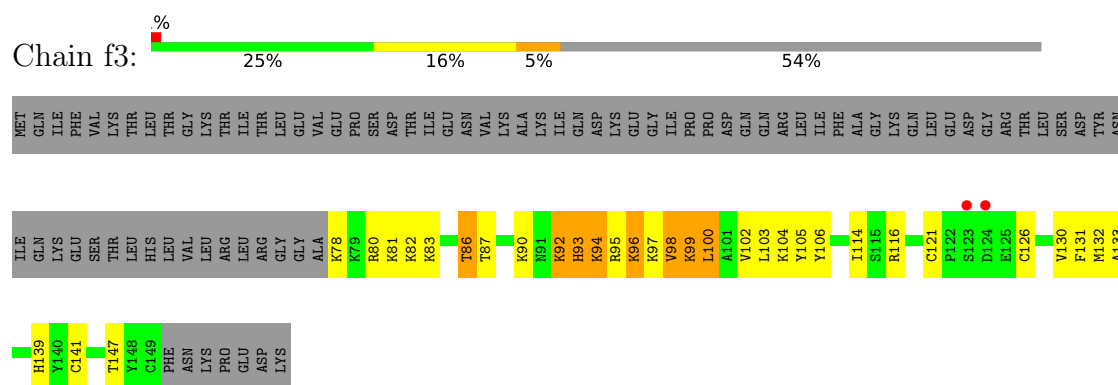
● Molecule 8: Ribosomal protein S27a



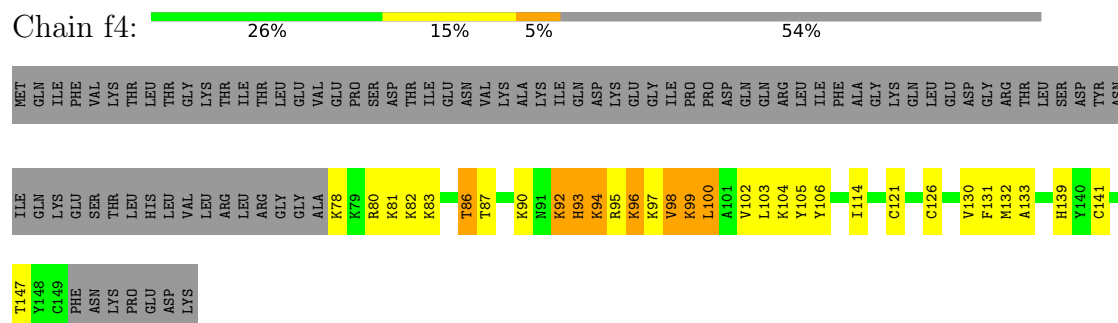
● Molecule 8: Ribosomal protein S27a



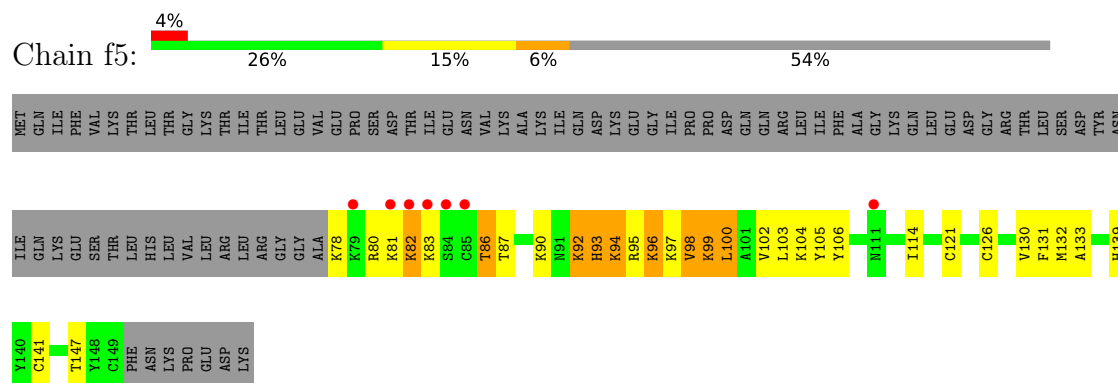
● Molecule 8: Ribosomal protein S27a



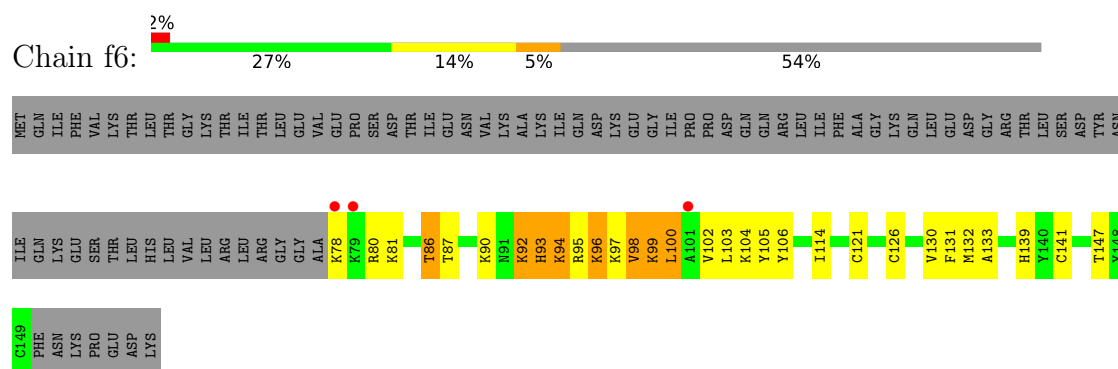
● Molecule 8: Ribosomal protein S27a



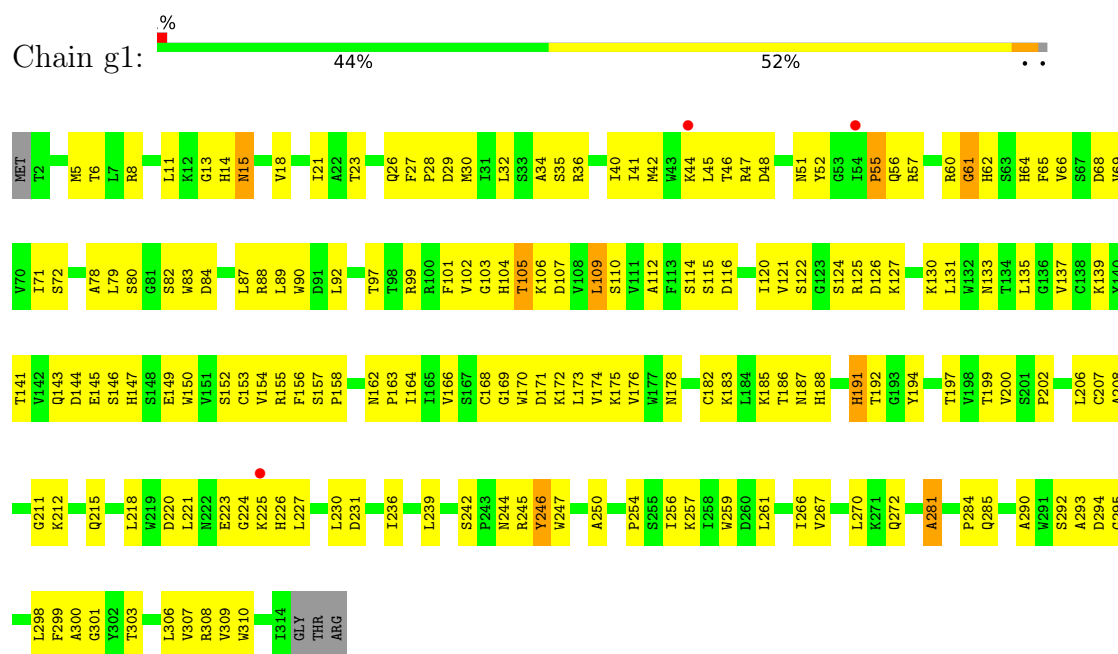
- Molecule 8: Ribosomal protein S27a



- Molecule 8: Ribosomal protein S27a

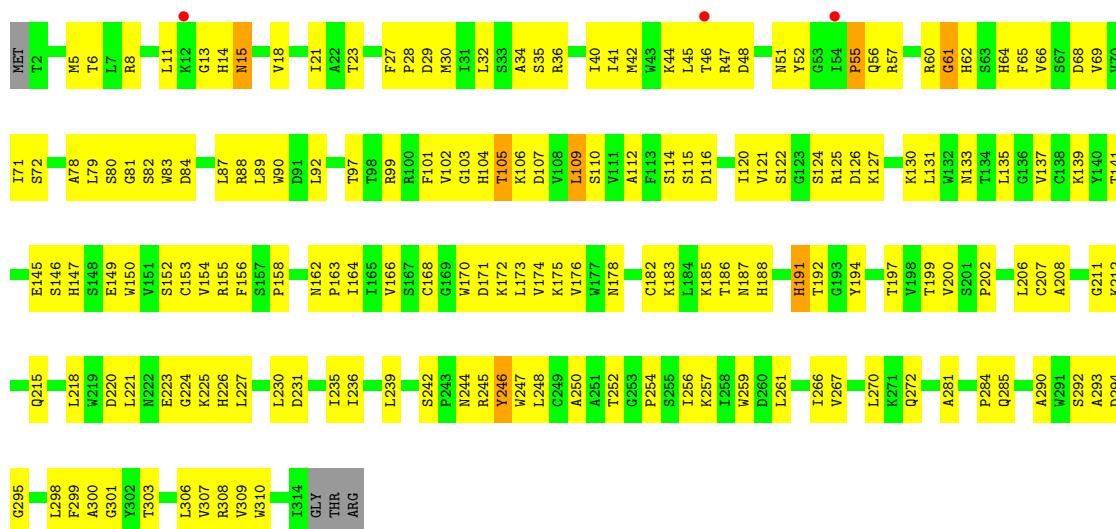


- Molecule 9: Receptor of activated protein C kinase 1

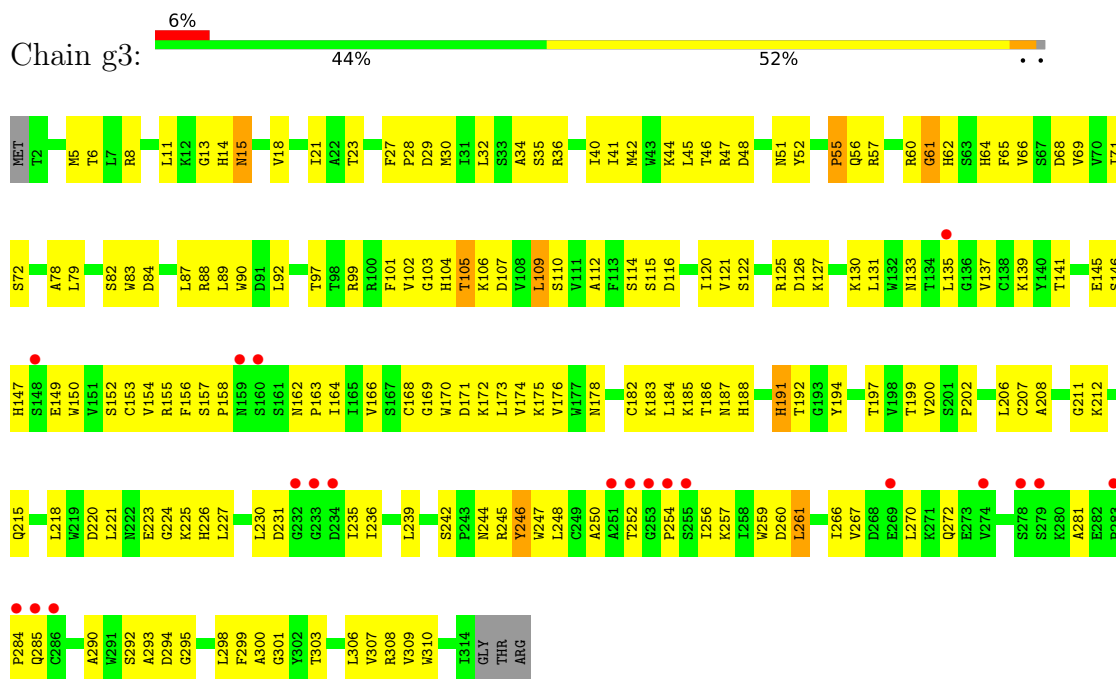


- Molecule 9: Receptor of activated protein C kinase 1

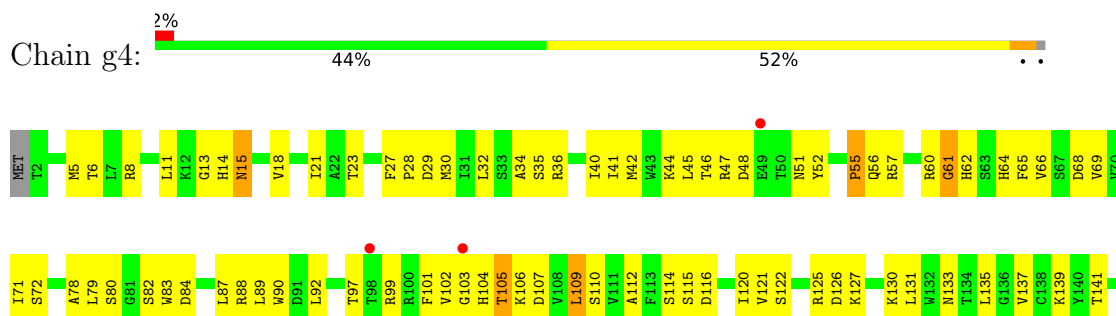




• Molecule 9: Receptor of activated protein C kinase 1

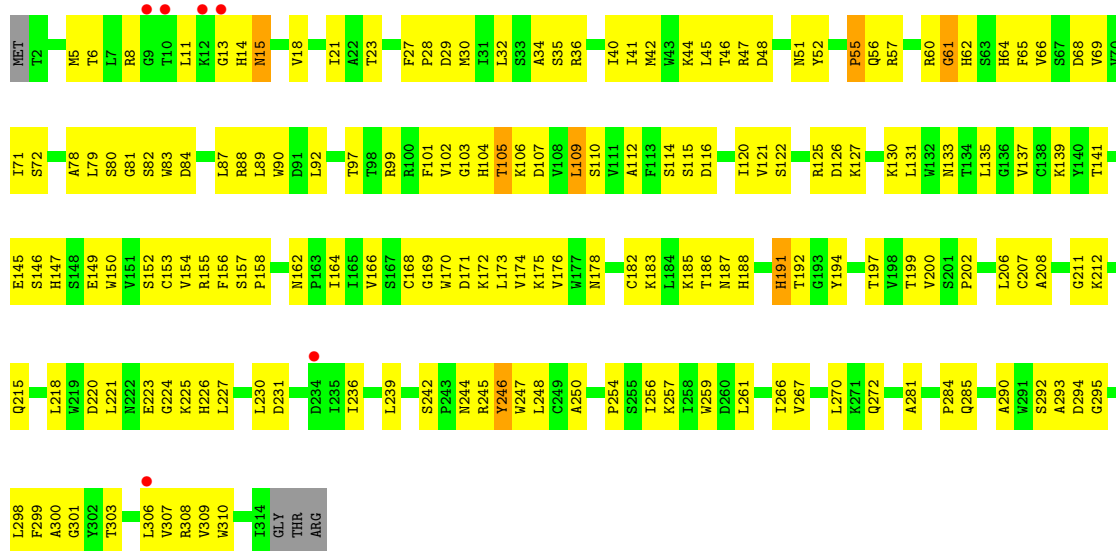


• Molecule 9: Receptor of activated protein C kinase 1

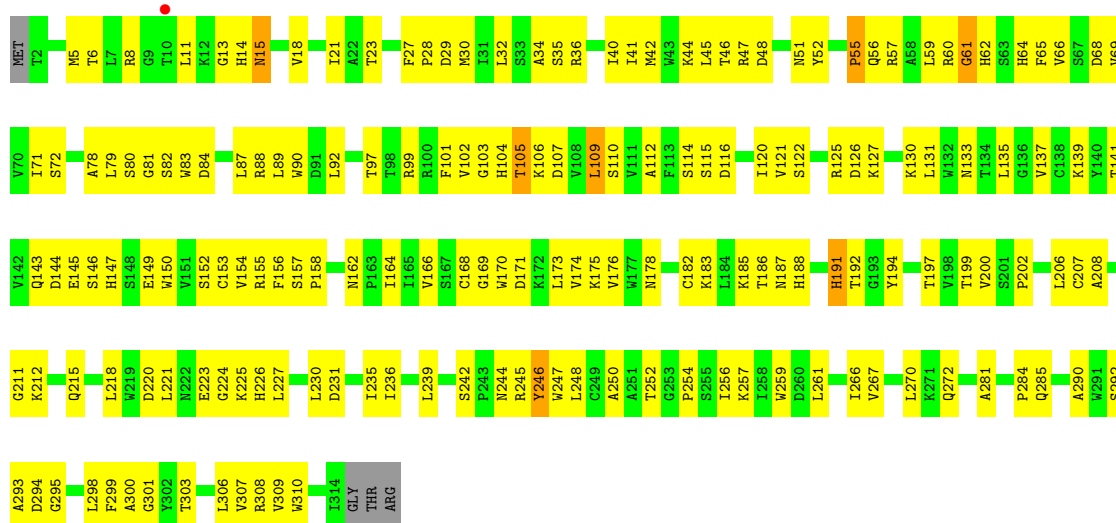




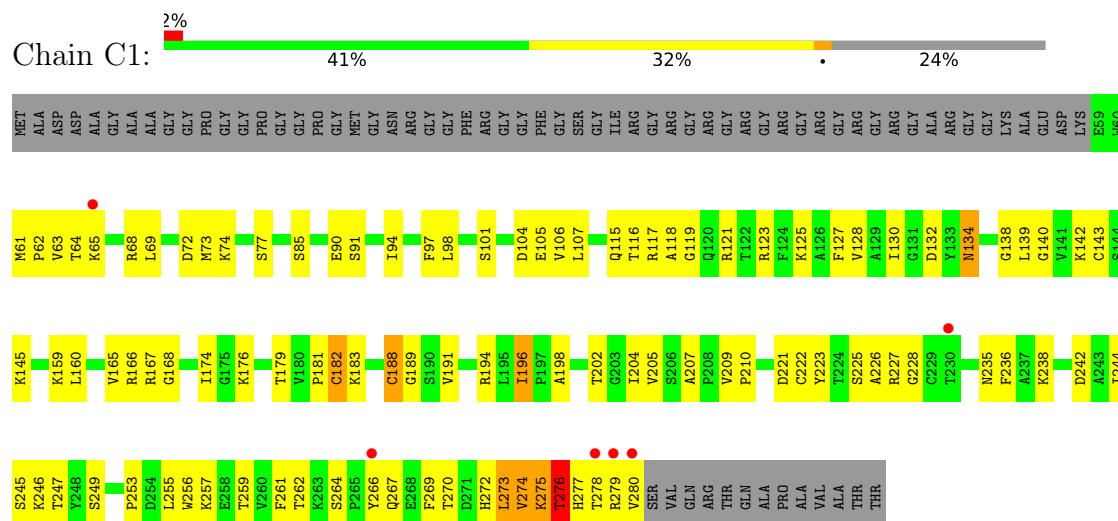
• Molecule 9: Receptor of activated protein C kinase 1



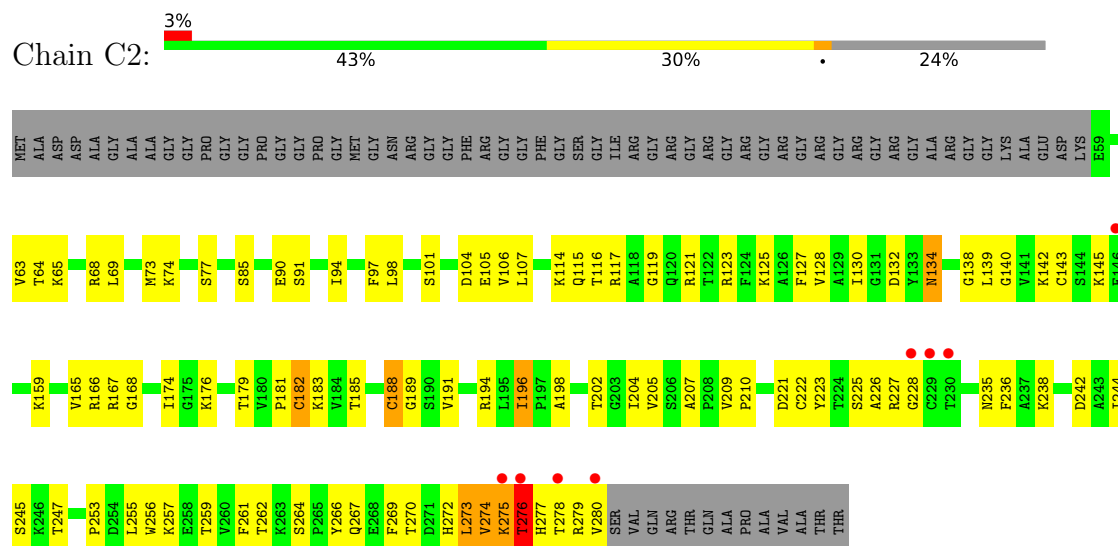
• Molecule 9: Receptor of activated protein C kinase 1



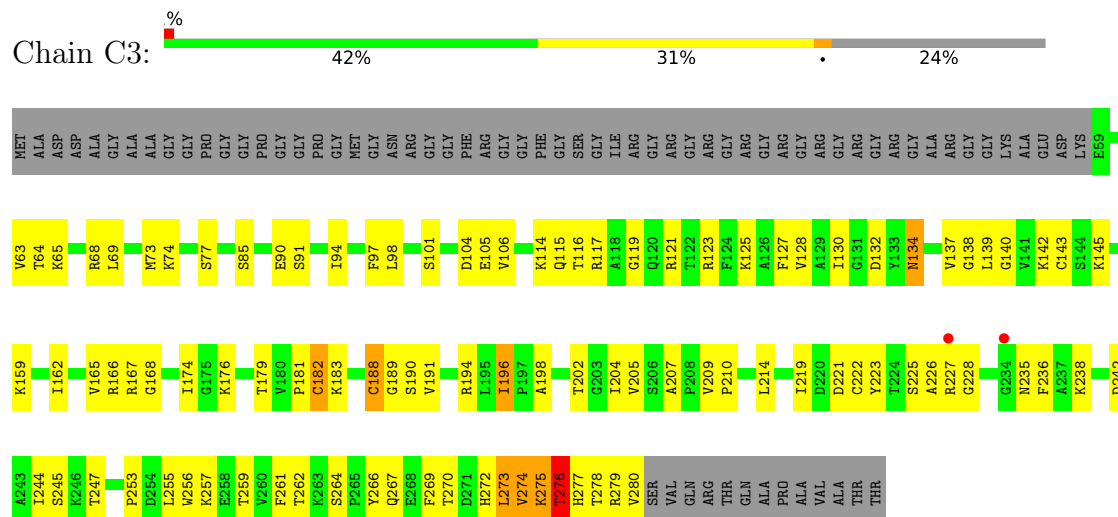
- Molecule 10: 40S ribosomal protein S2



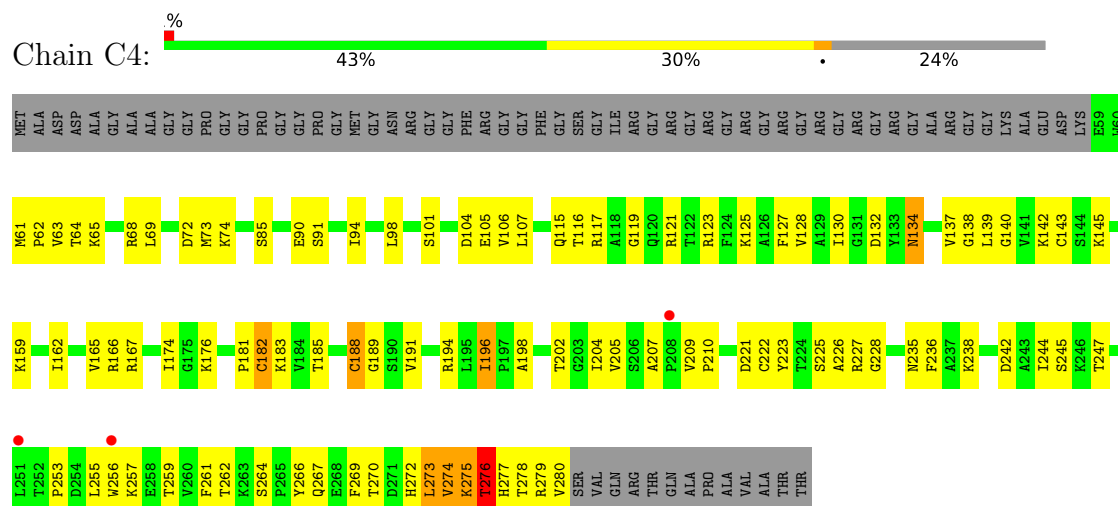
- Molecule 10: 40S ribosomal protein S2



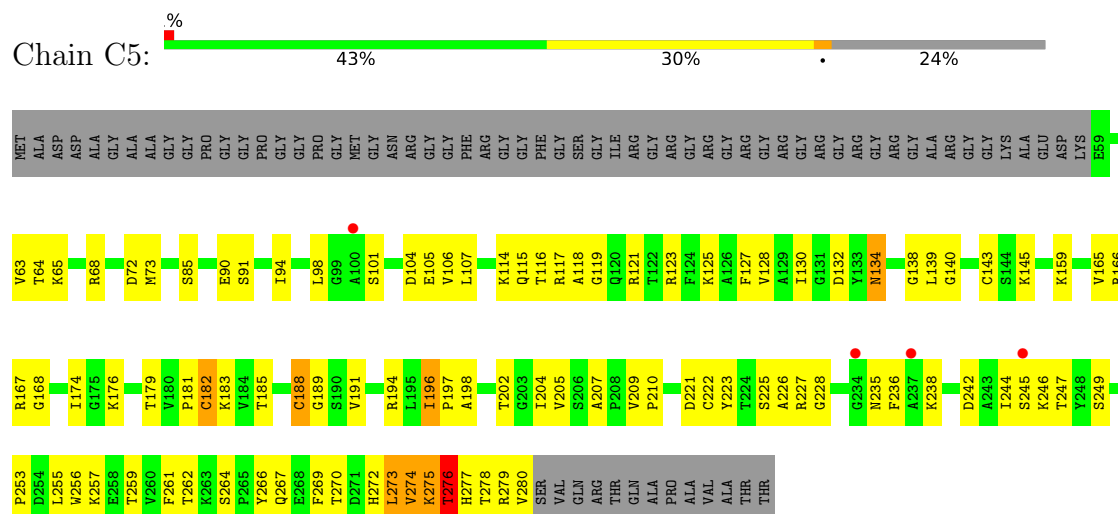
- Molecule 10: 40S ribosomal protein S2



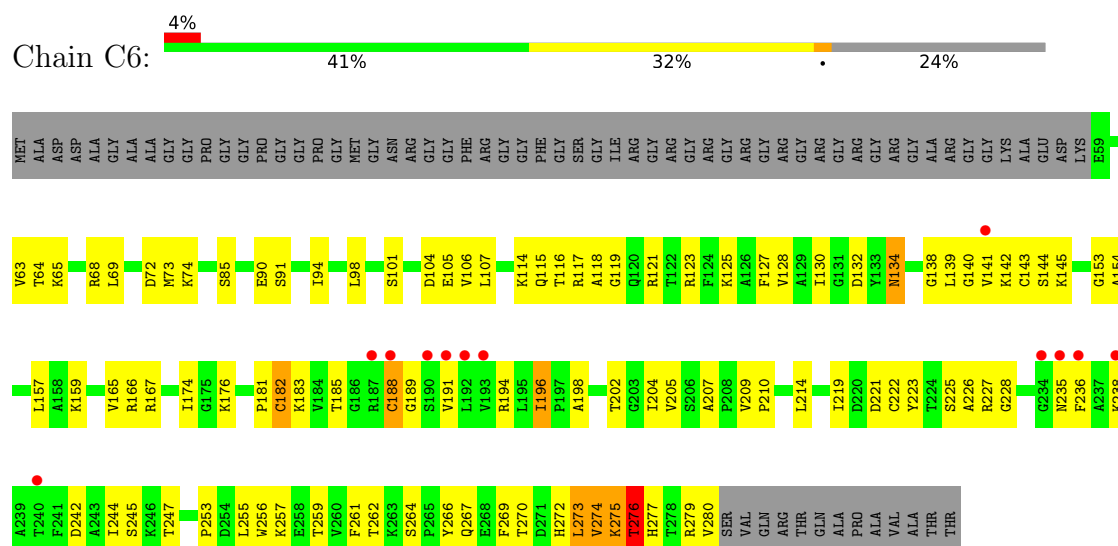
- Molecule 10: 40S ribosomal protein S2



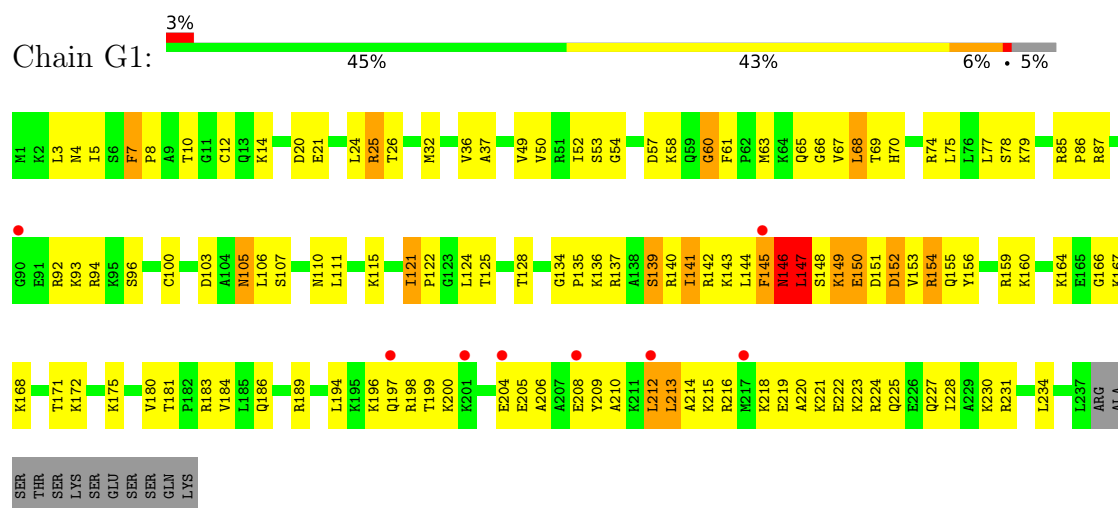
- Molecule 10: 40S ribosomal protein S2



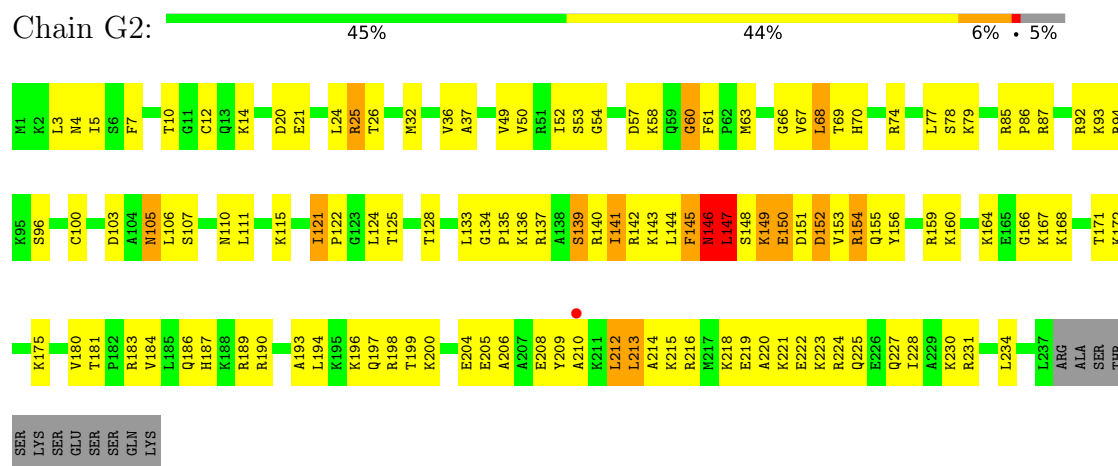
- Molecule 10: 40S ribosomal protein S2



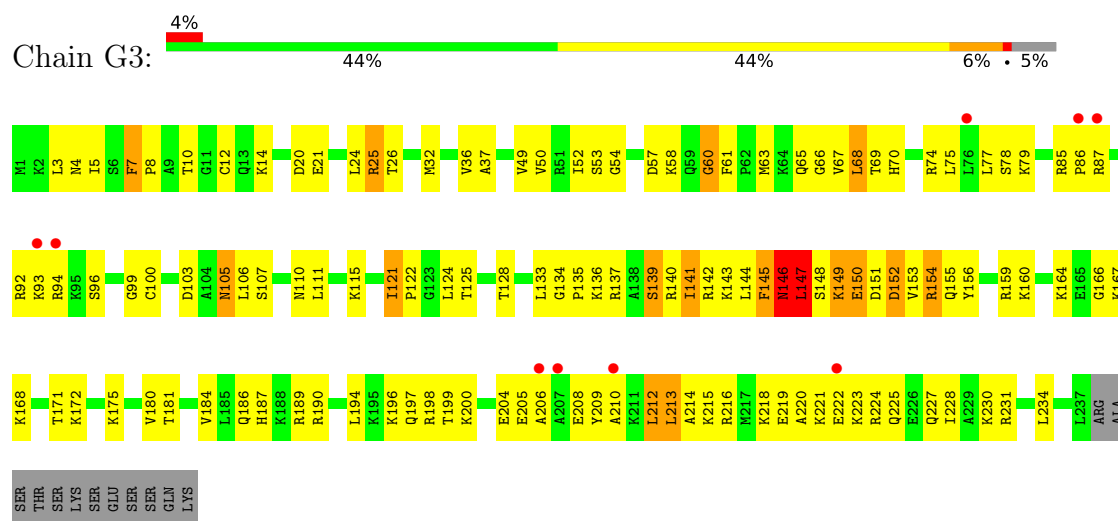
- Molecule 11: 40S ribosomal protein S6



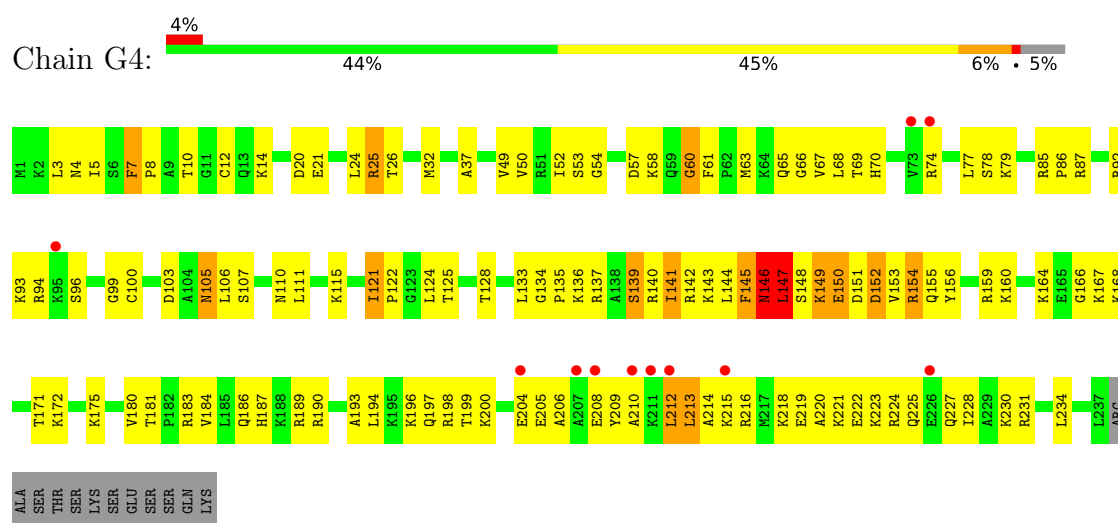
- Molecule 11: 40S ribosomal protein S6



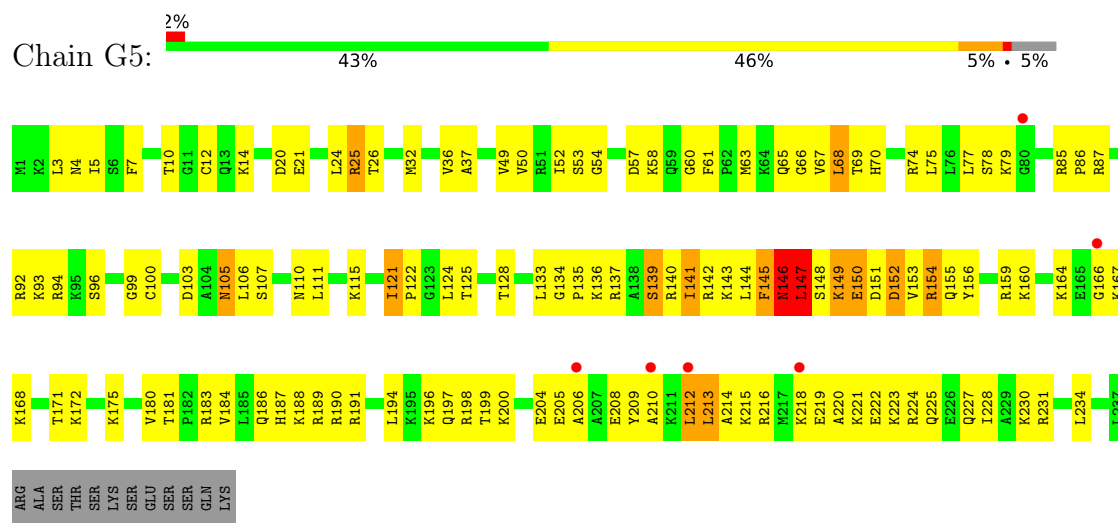
- Molecule 11: 40S ribosomal protein S6



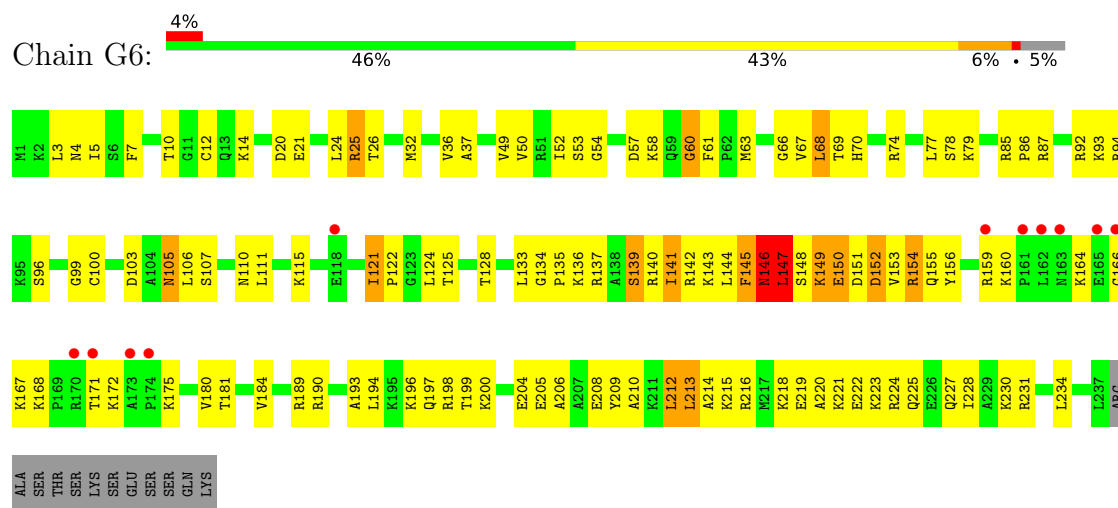
- Molecule 11: 40S ribosomal protein S6



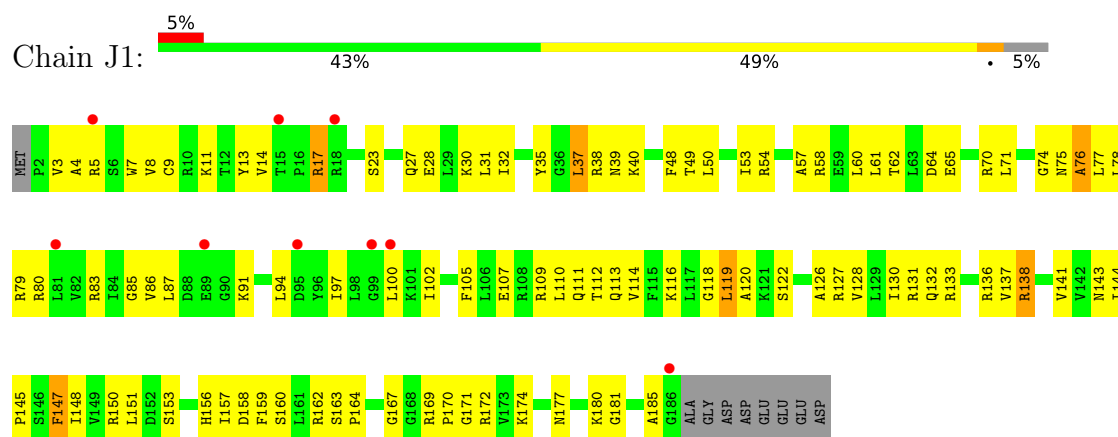
• Molecule 11: 40S ribosomal protein S6

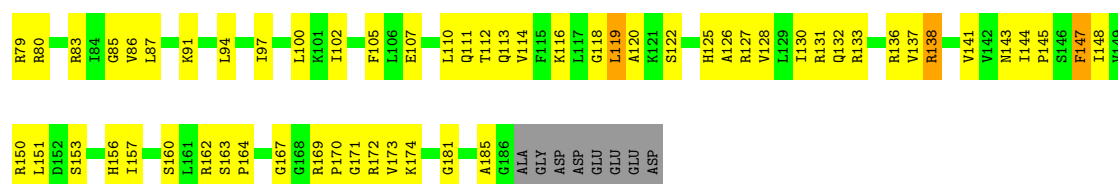


• Molecule 11: 40S ribosomal protein S6

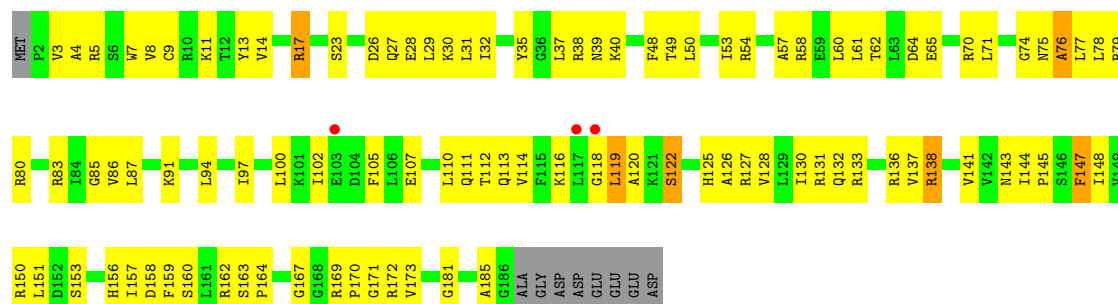
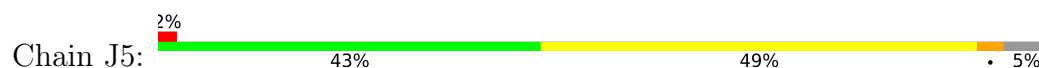


• Molecule 12: 40S ribosomal protein S9

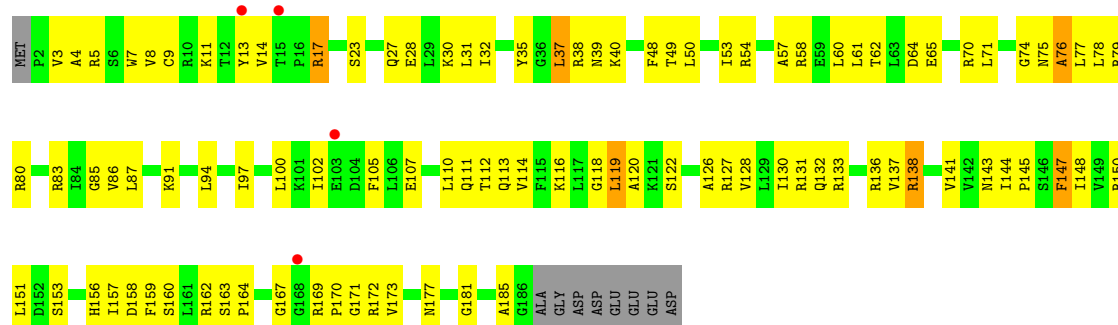
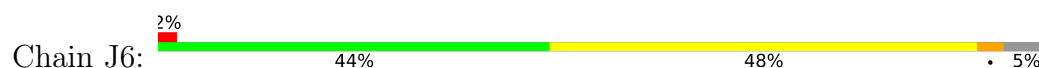




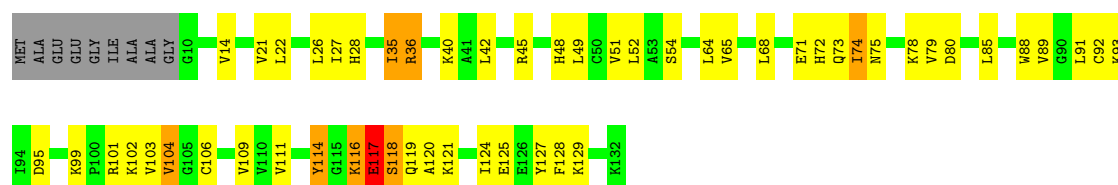
• Molecule 12: 40S ribosomal protein S9



• Molecule 12: 40S ribosomal protein S9

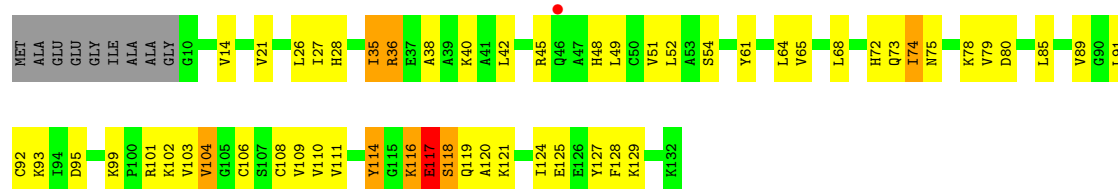


• Molecule 13: 40S ribosomal protein S12



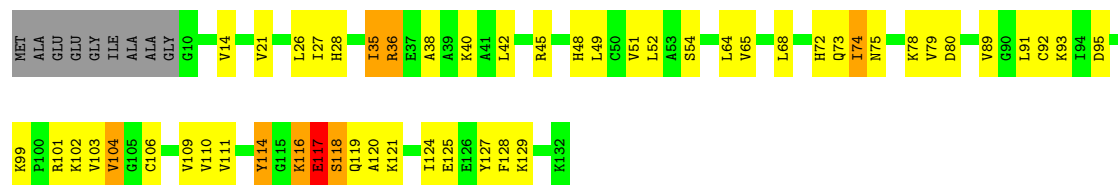
• Molecule 13: 40S ribosomal protein S12





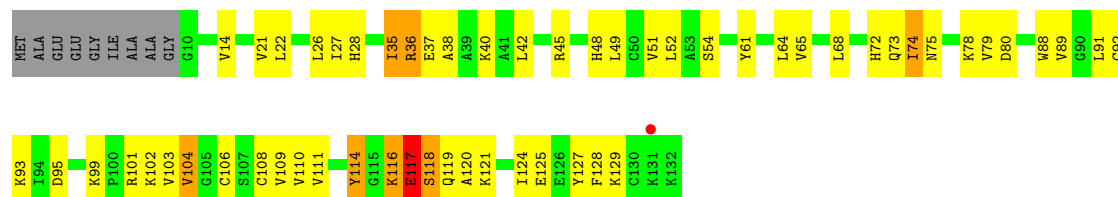
• Molecule 13: 40S ribosomal protein S12

Chain M3: 54% 33% 5% • 7%



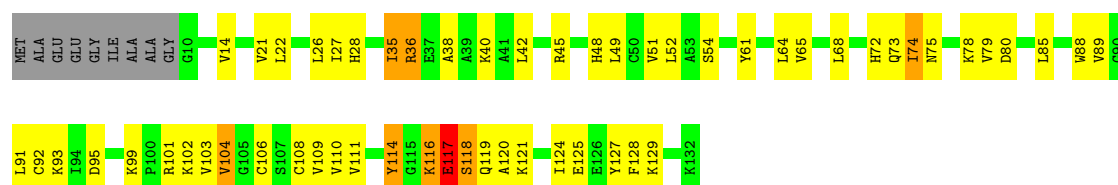
• Molecule 13: 40S ribosomal protein S12

Chain M4: 50% 37% 5% • 7%



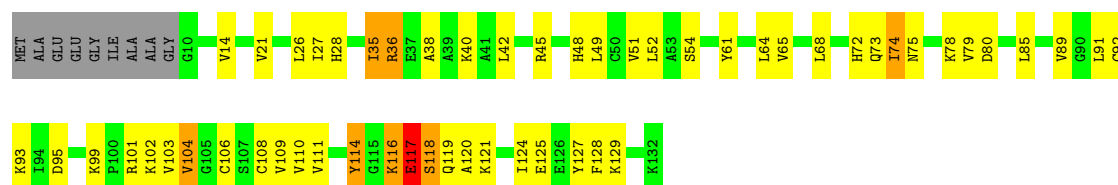
• Molecule 13: 40S ribosomal protein S12

Chain M5: 50% 37% 5% • 7%

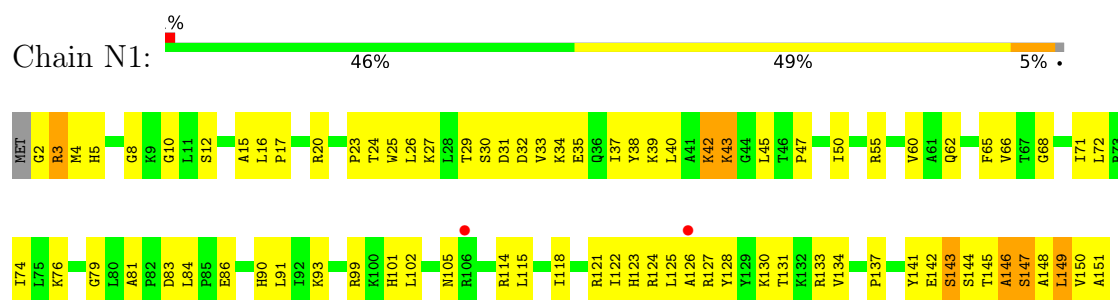


• Molecule 13: 40S ribosomal protein S12

Chain M6: 52% 36% 5% • 7%



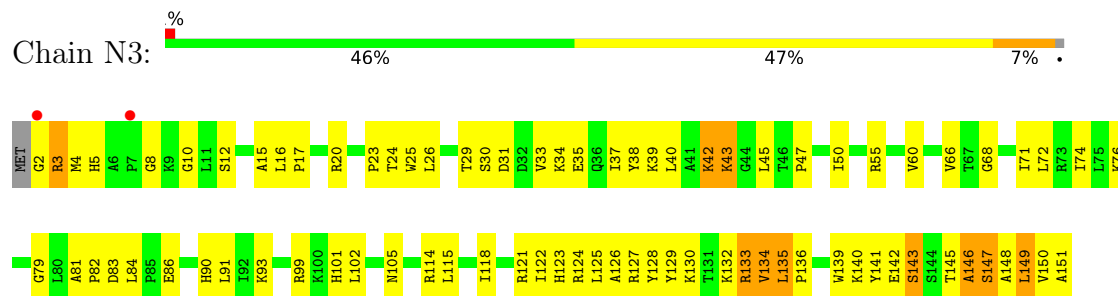
• Molecule 14: 40S ribosomal protein S13



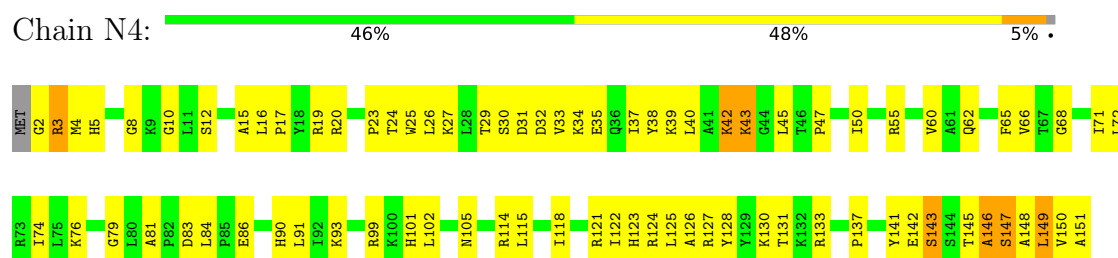
- Molecule 14: 40S ribosomal protein S13



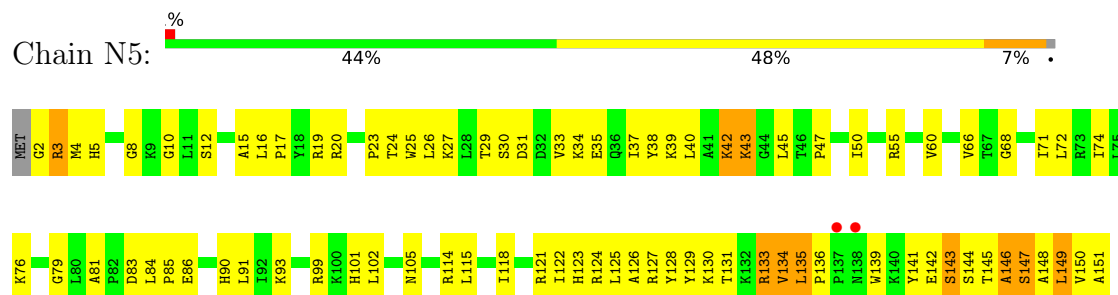
- Molecule 14: 40S ribosomal protein S13



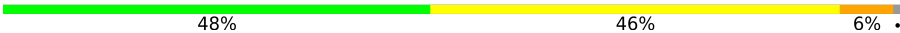
- Molecule 14: 40S ribosomal protein S13

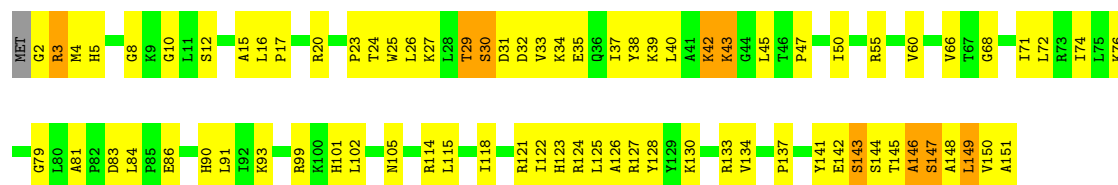


- Molecule 14: 40S ribosomal protein S13



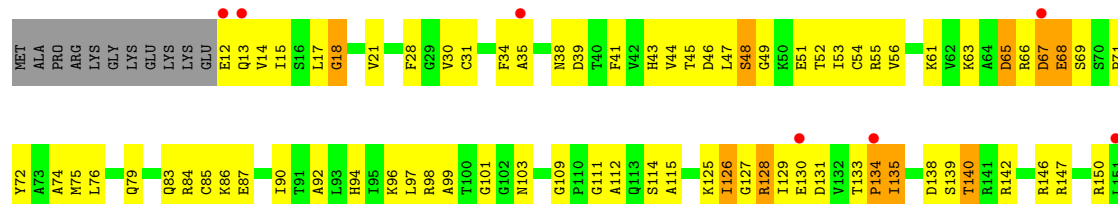
- Molecule 14: 40S ribosomal protein S13

Chain N6:  48% 46% 6% .



- Molecule 15: 40S ribosomal protein S14

Chain O1:  5% 42% 44% 7% 7%



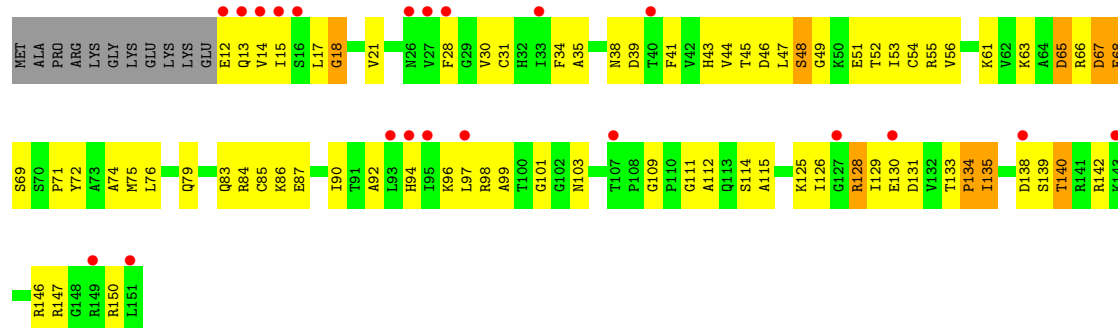
- Molecule 15: 40S ribosomal protein S14

Chain O2:  3% 42% 44% 7% 7%

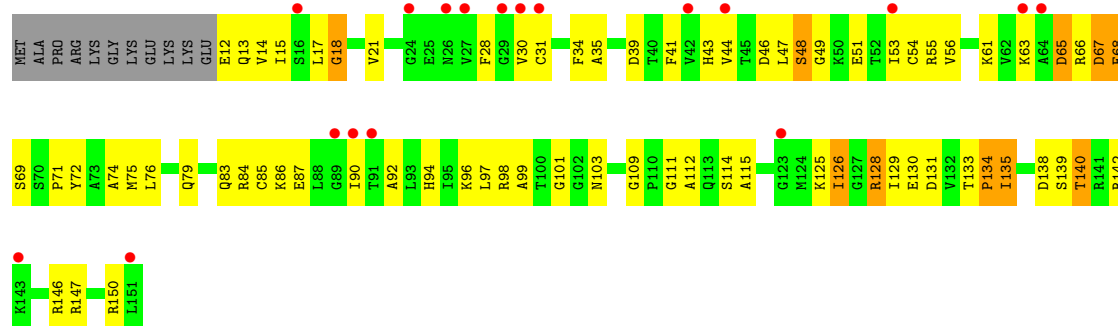
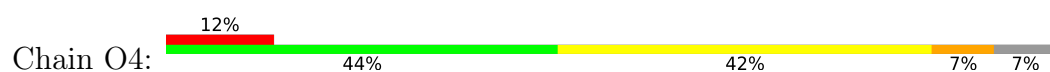


- Molecule 15: 40S ribosomal protein S14

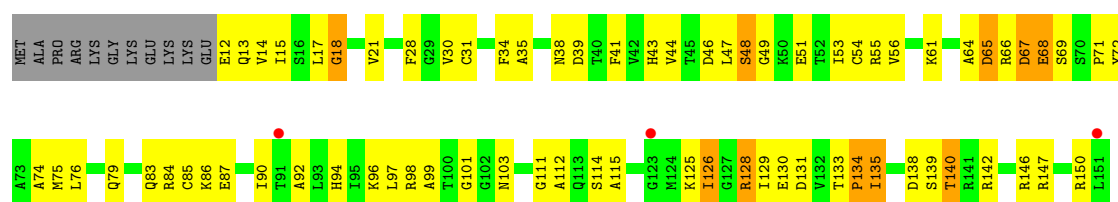
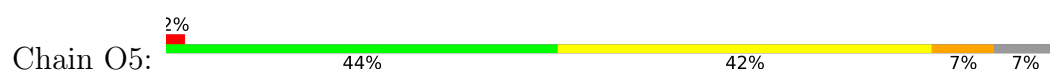
Chain O3:  14% 42% 44% 6% 7%



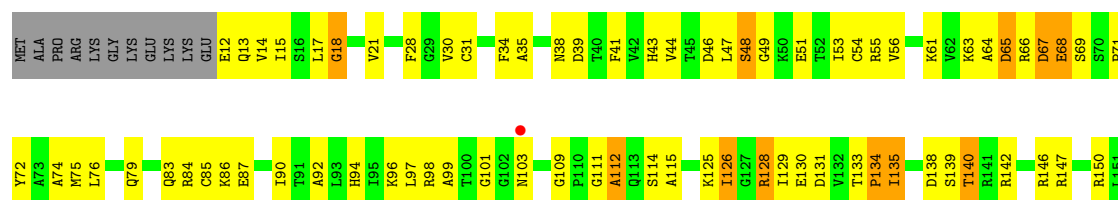
- Molecule 15: 40S ribosomal protein S14



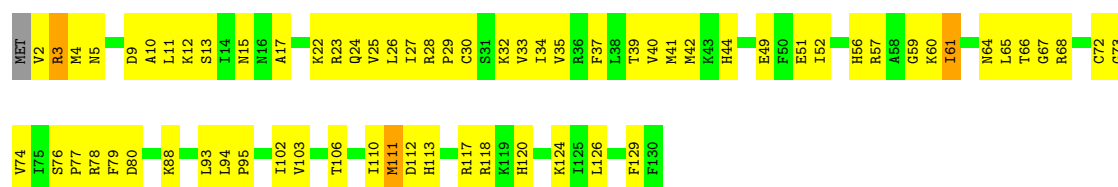
- Molecule 15: 40S ribosomal protein S14



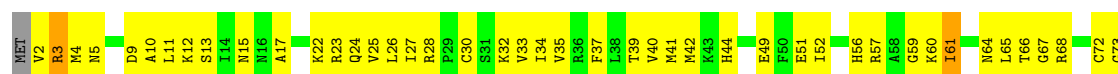
- Molecule 15: 40S ribosomal protein S14



- Molecule 16: 40S ribosomal protein S15a

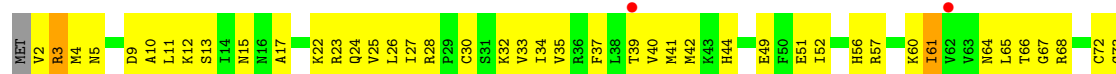


- Molecule 16: 40S ribosomal protein S15a

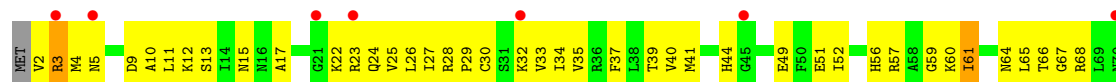




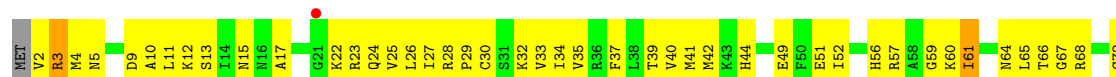
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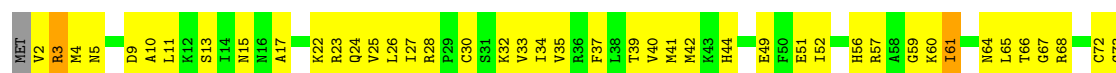
- Molecule 16: 40S ribosomal protein S15a



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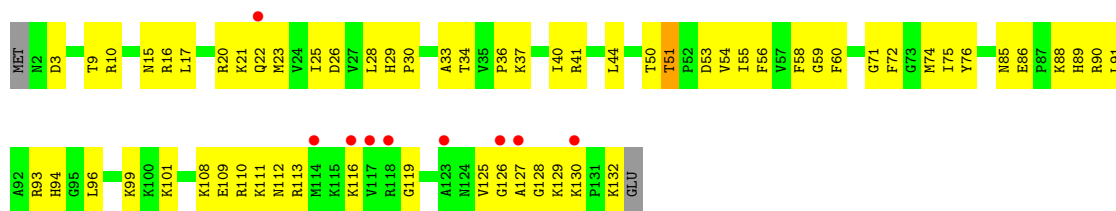


- Molecule 16: 40S ribosomal protein S15a

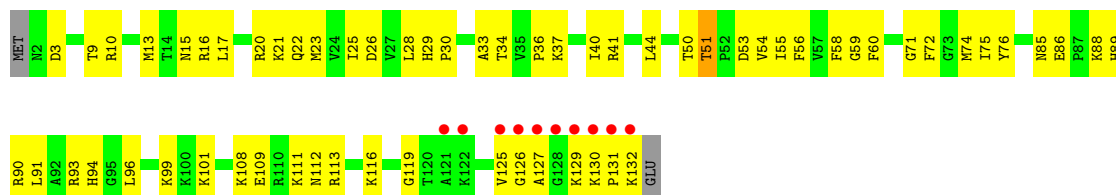


- Molecule 17: 40S ribosomal protein S24

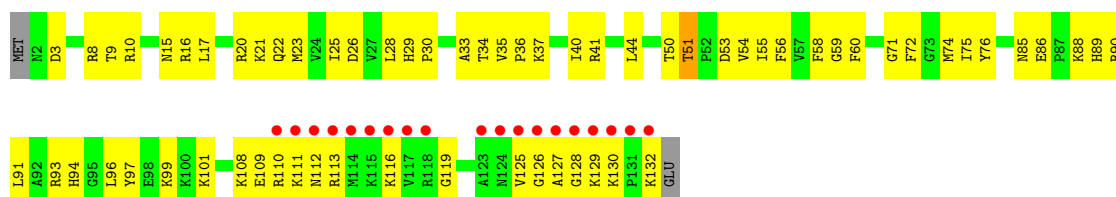




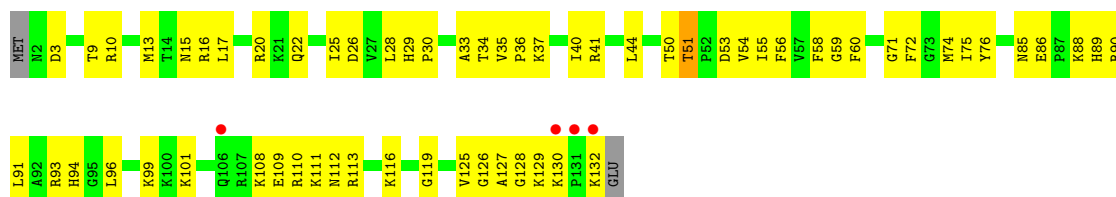
• Molecule 17: 40S ribosomal protein S24



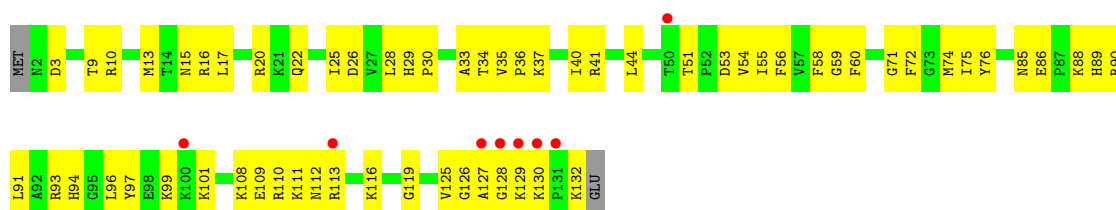
• Molecule 17: 40S ribosomal protein S24



• Molecule 17: 40S ribosomal protein S24



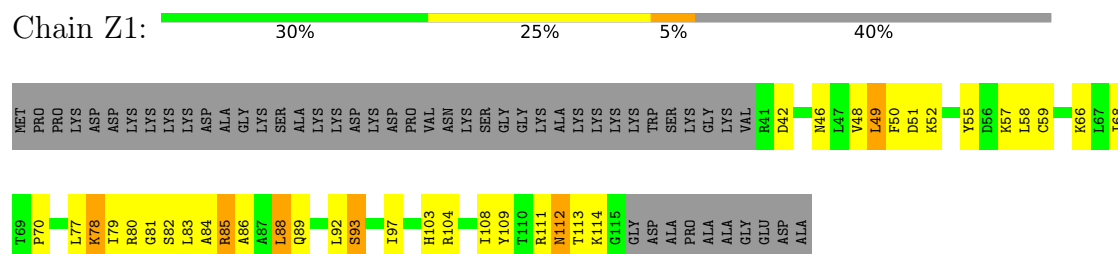
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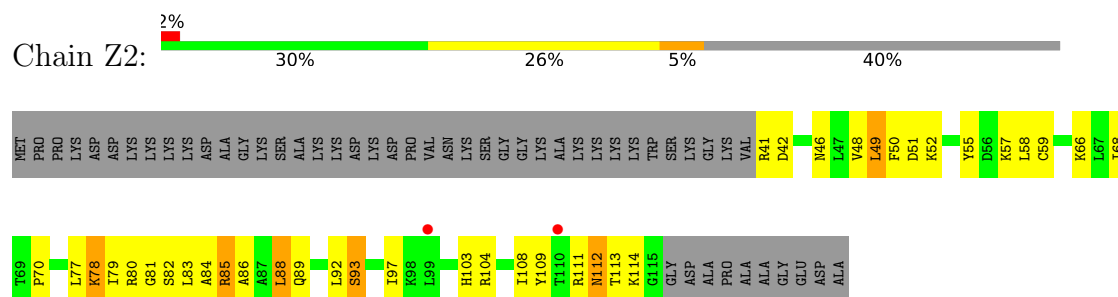
- Molecule 17: 40S ribosomal protein S24



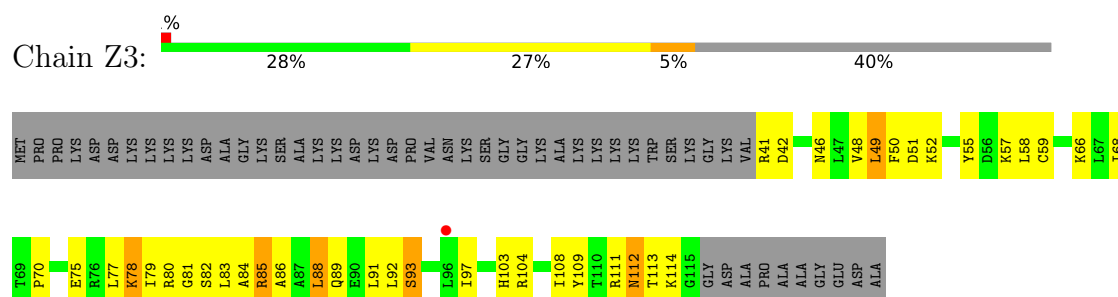
- Molecule 18: 40S ribosomal protein S25



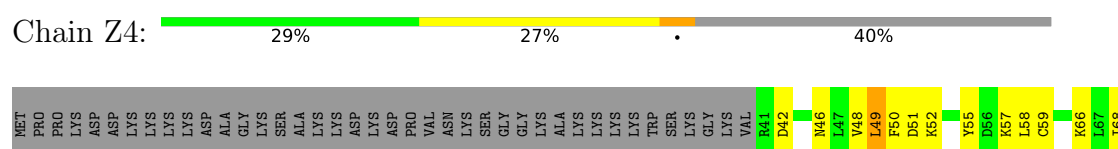
- Molecule 18: 40S ribosomal protein S25

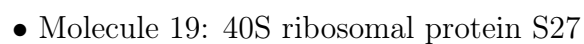


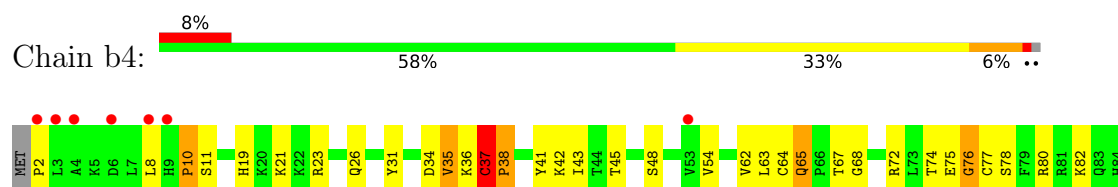
- Molecule 18: 40S ribosomal protein S25



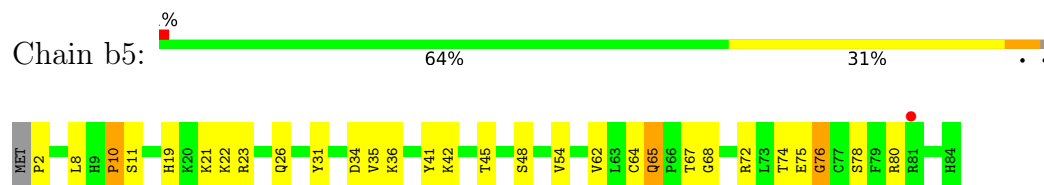
- Molecule 18: 40S ribosomal protein S25



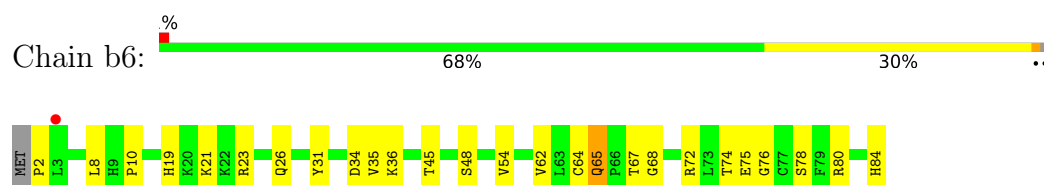




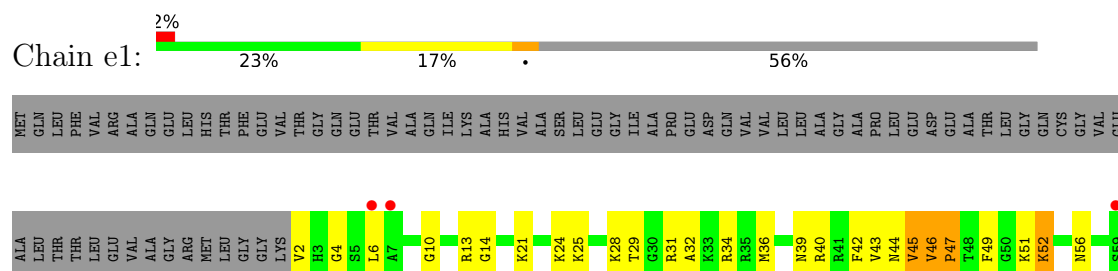
- Molecule 19: 40S ribosomal protein S27



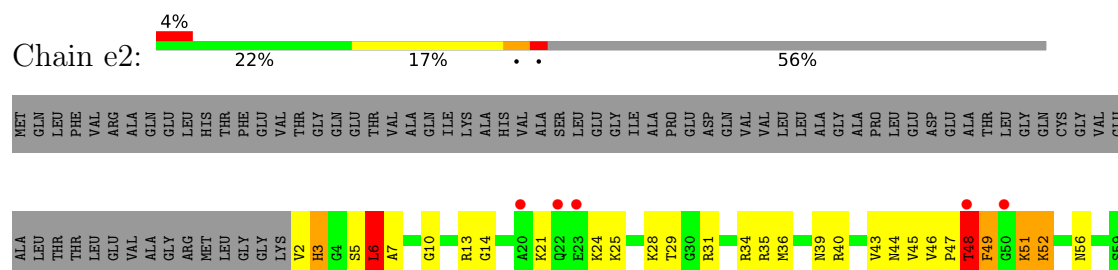
- Molecule 19: 40S ribosomal protein S27



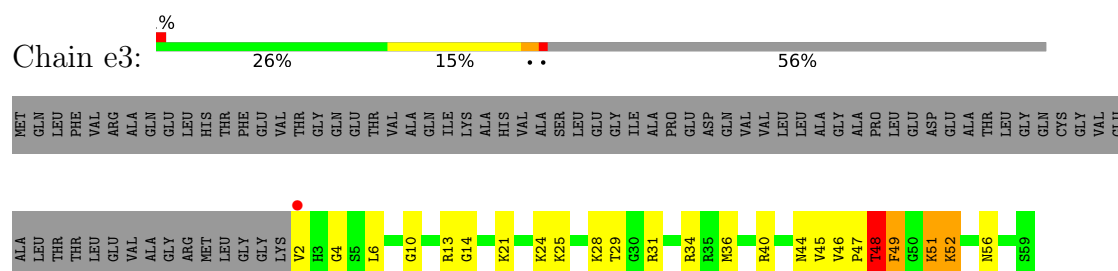
- Molecule 20: 40S ribosomal protein S30



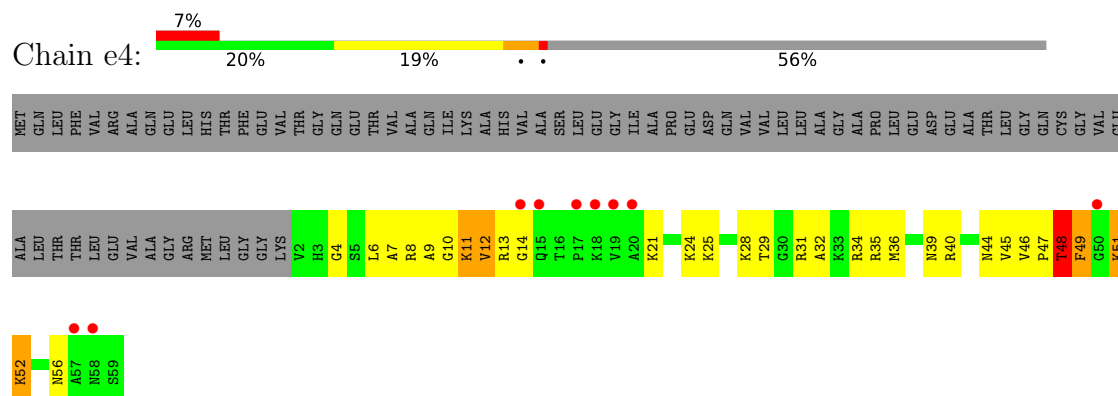
- Molecule 20: 40S ribosomal protein S30



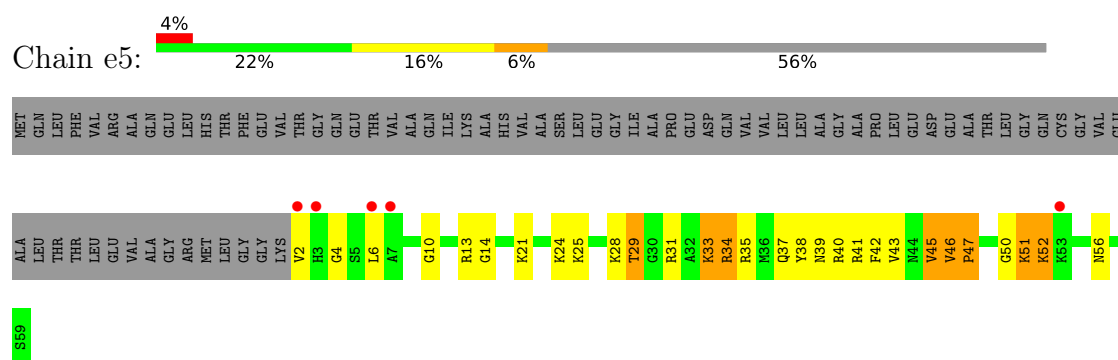
- Molecule 20: 40S ribosomal protein S30



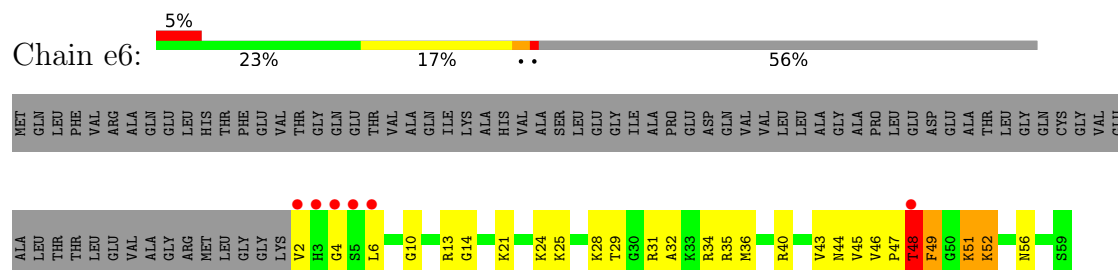
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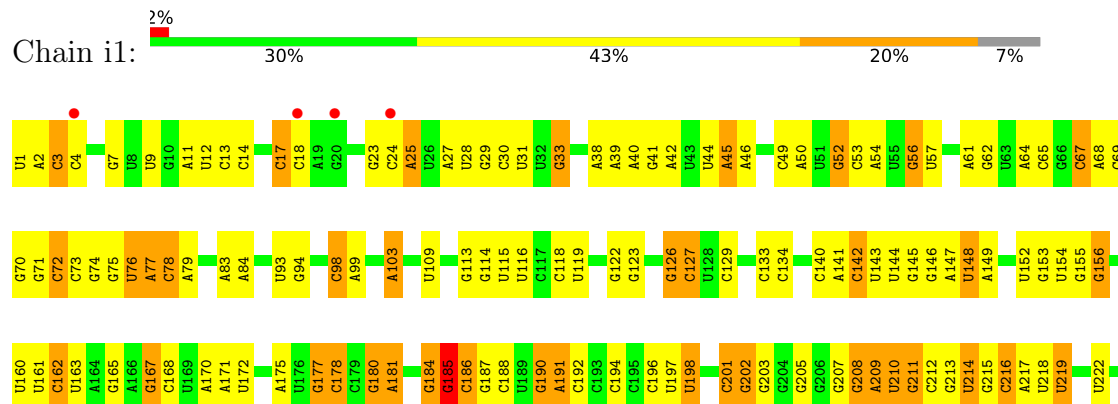
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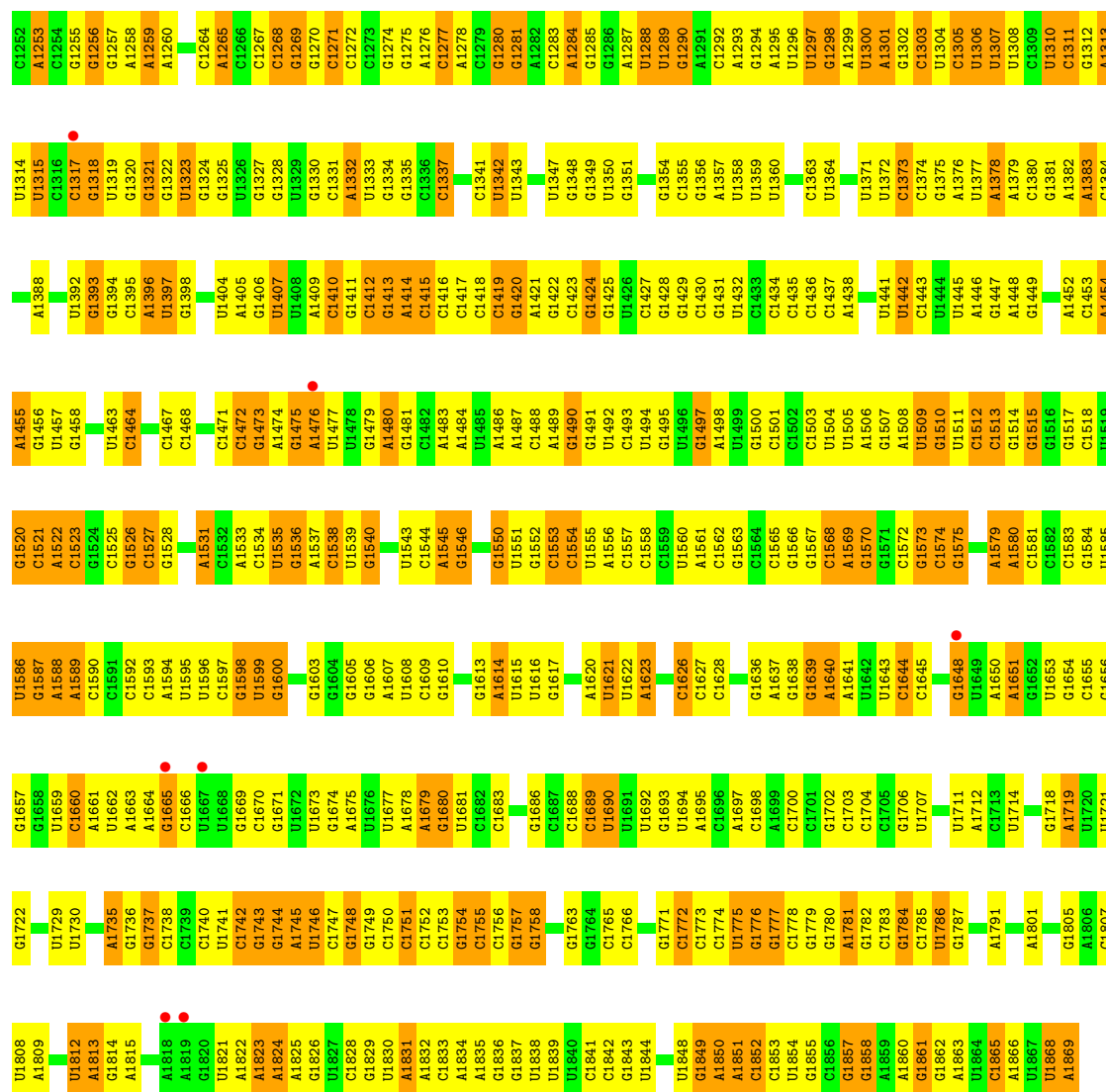
• Molecule 20: 40S ribosomal protein S30



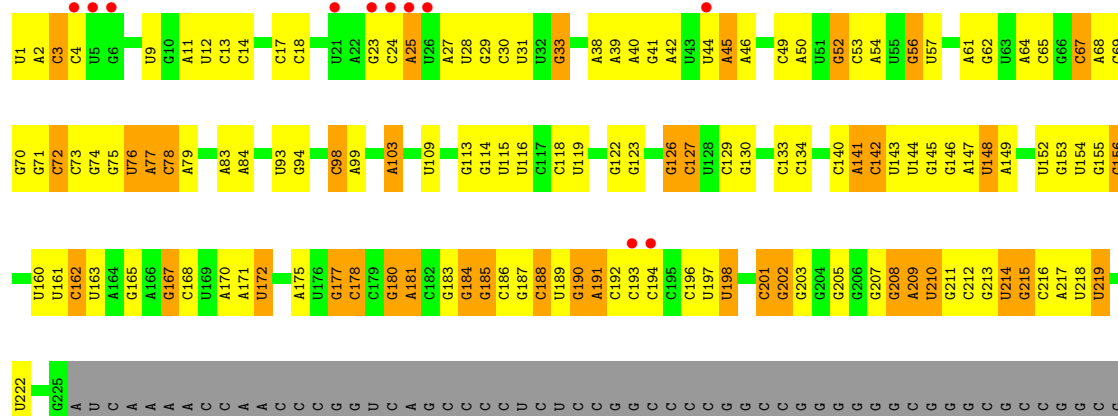
• Molecule 21: Human 18S ribosomal RNA



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U1186	C1116	A1036	G961	G895	G821	C	C	U631	A555	A493	U423	G351	U	A
G1187	C1117	G1037	A962	U896	U822	U	G	C632	U556	C494	A426	U352	U	U
A1188	C1118	A963	U897	U897	U823	G	G	C633	U557	C495	A426	C353	G288	G287
A1189	A1119	A964	U898	U898	C824	A	C	A634	G558	C496	A426	U354	A	C
A1190	U1120	A965	U899	U899	C829	G	C	G635	G559	C497	C429	G355	A	A
G1191	G1121	A1042	C900	C900	C829	U	G	C636	A560	C498	C430	G356	A	A
U1192	C1124	G1043	G901	G901	A830	U	G	U637	A561	G499	G431	A292	A	A
U1193	G1125	G1044	U969	U969	C833	C	U	C638	U562	C501	G432	A293	C	C
A1194	G1126	C1047	G902	G902	C834	U	C	C639	A563	C502	A361	C295	C	C
A1195	G1126	C1047	A904	A904	C835	U	C	C639	A564	C502	A362	U296	A	A
G1198	G1129	A1052	U966	U966	G836	U	G	U642	G565	C503	G436	C362	C	C
A1199	G1130	G1053	G907	G907	A837	A	C	G644	U566	G504	G437	A363	C	C
A1200	A1133	G1054	A908	A908	G838	G	G	C644	C570	G505	G438	A364	C	C
U1201	G1134	A1055	G909	G909	G838	C	C	U647	U570	G506	A439	C303	G	G
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G1210	G1140	U1061	G982	G982	G845	U	G	A655	U581	G515	A449	U376	C	C
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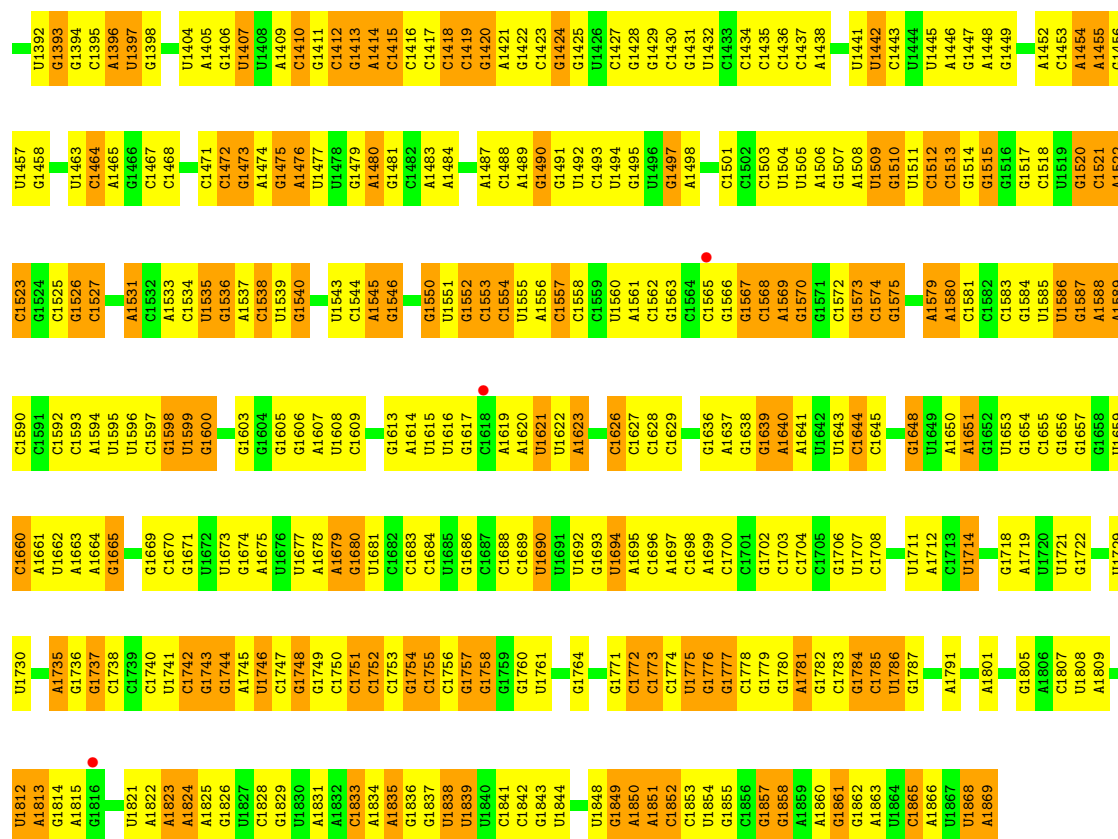
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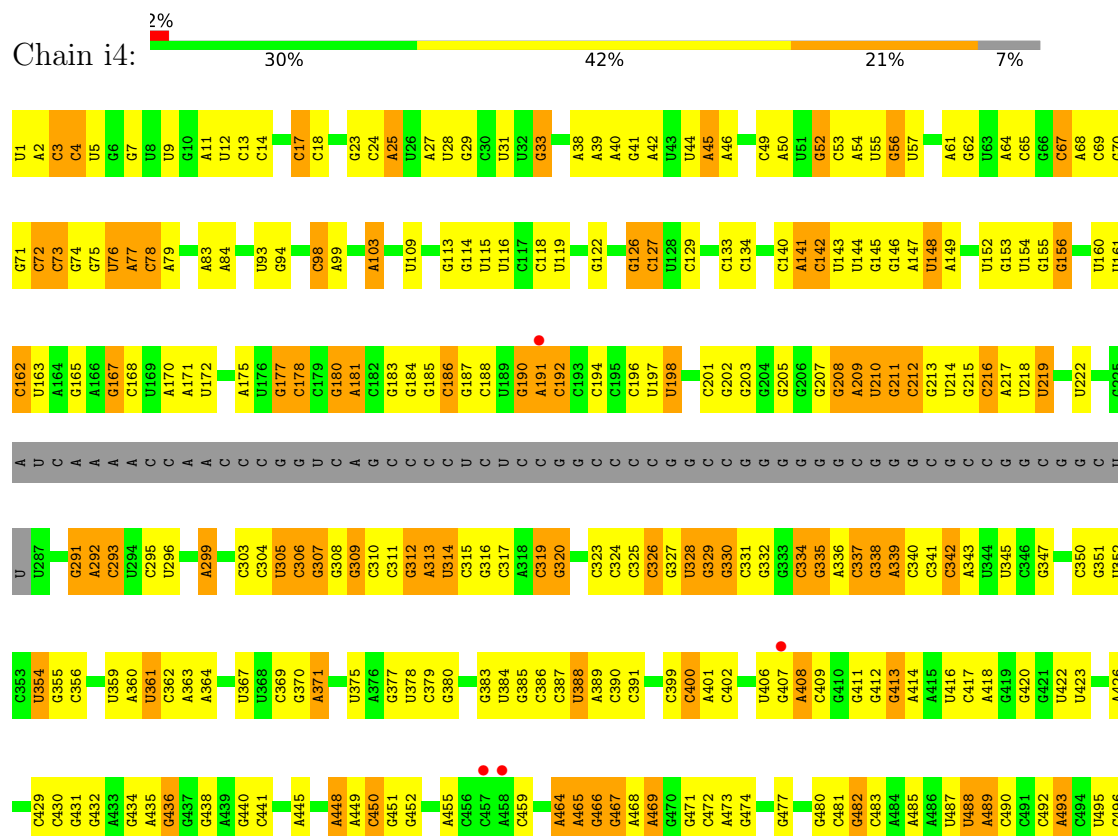
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	U1194	C1126	C1047	C973	G907	C837	U	C	A643	U565	C503	U296	U
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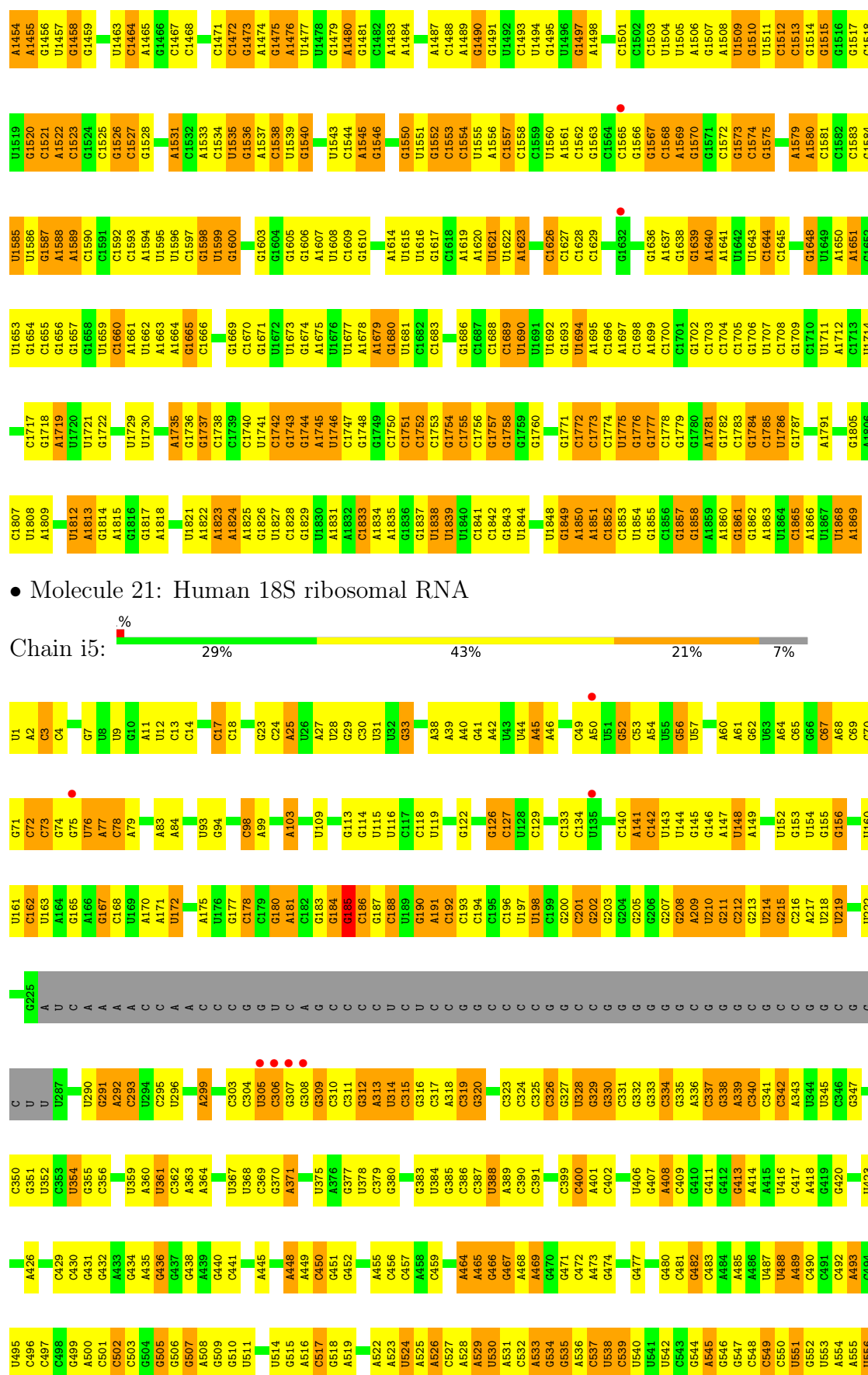




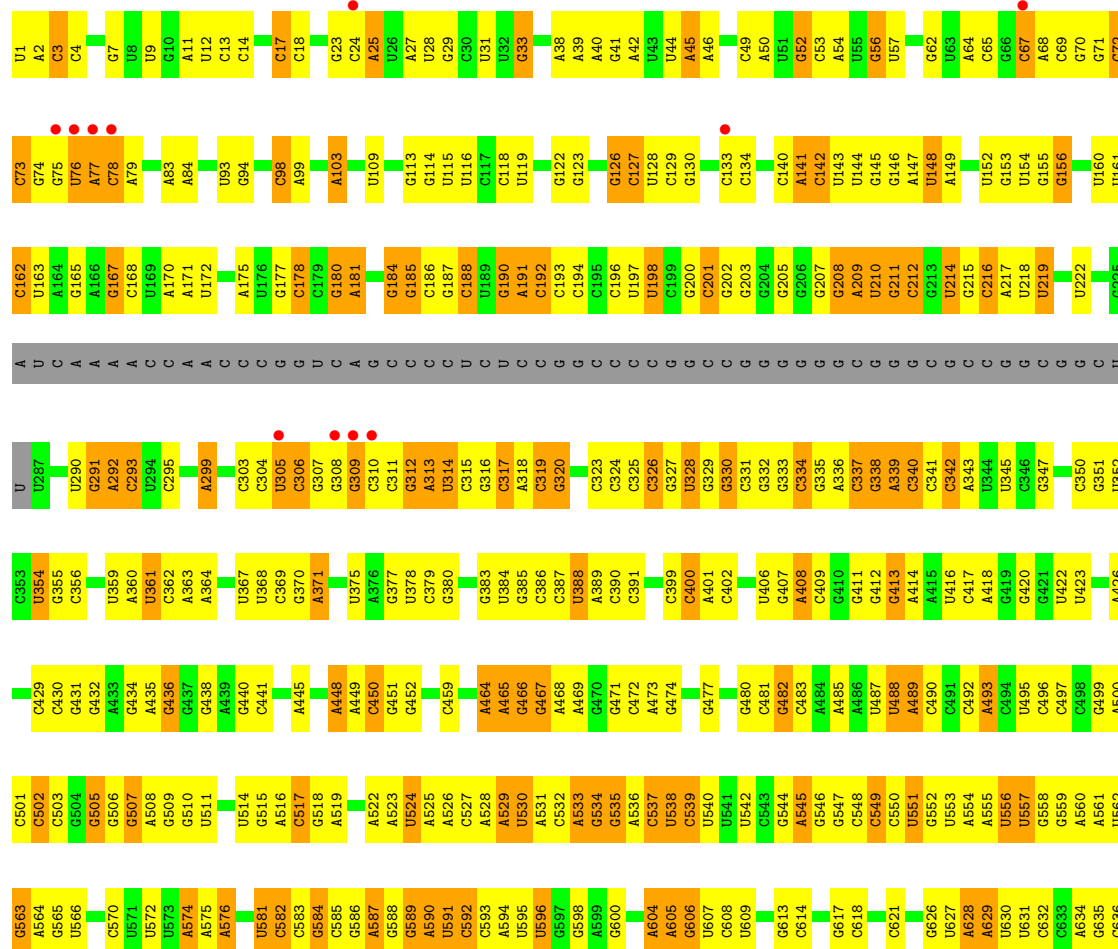
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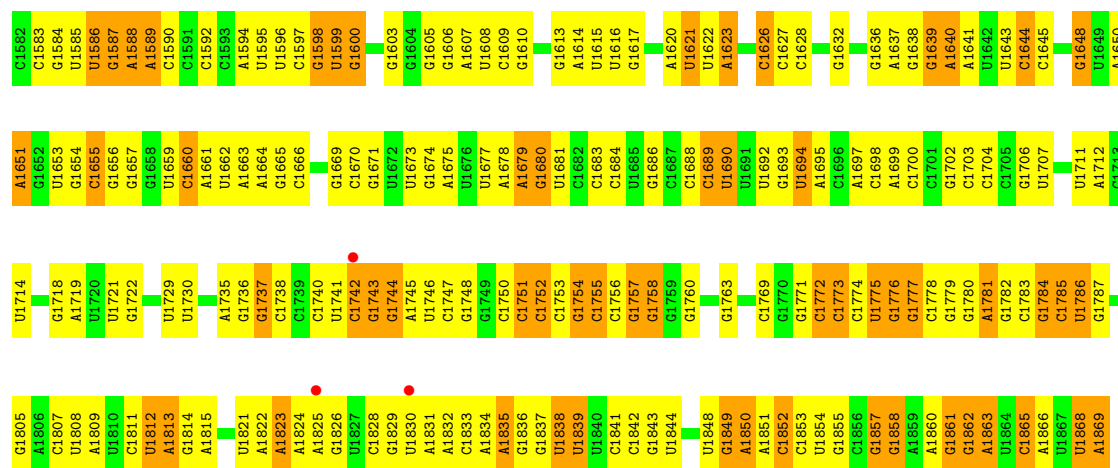
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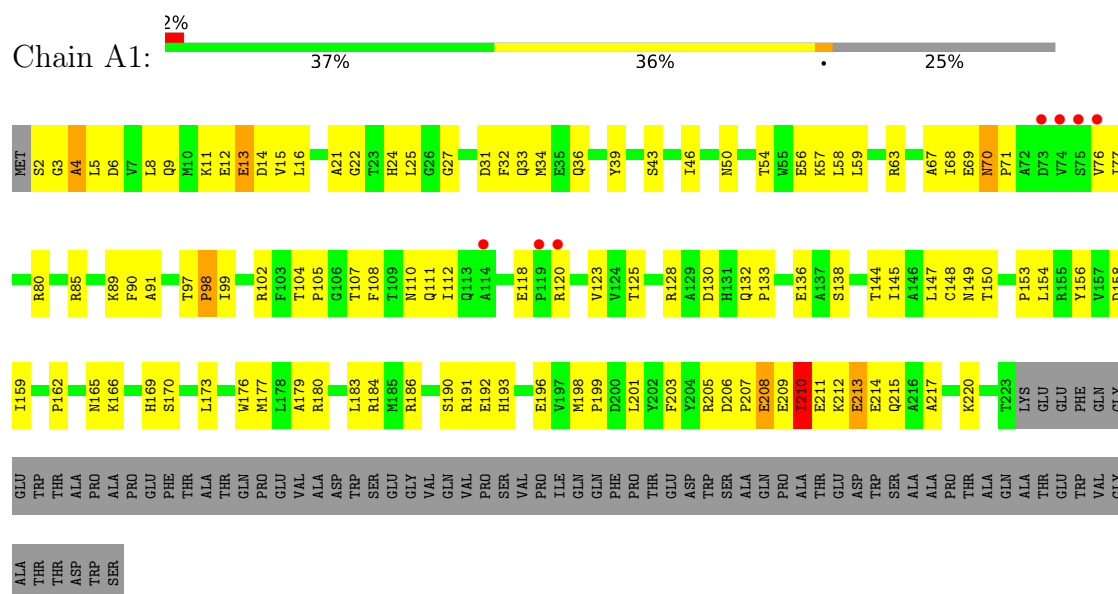
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A1534	G1471	G1325	U1266	A1199	A1055	G978	C911	C940	G	A	U647	U571
U1535	G1472	U1326	C1267	A1200	U1056	C979	C912	C841	U	A	A648	U572
G1536	A1473	G1327	U1268	U1201	G1057	A980	A913	C842	A	G	U649	U573
A1537	A1474	G1328	C1269	U1202	A1058	A981	U914	C843	U	C	A650	A574
G1538	G1475	U1329	G1270	A1203	G1059	G982	G917	U844	G	C	U651	A575
U1539	A1476	C1330	C1271	A1204	U1060	A983	U917	G845	U	A	A655	A576
G1540	U1477	G1331	A1272	G1205	U1061	G986	U918	G846	U	A	G656	
	U1478	A1332	C1273	G1206	A1062		A919	A847	C	C	U657	U581
U1543	G1479	U1333	C1274	A1207	G1065	A980	A920	U848	C	C	C582	C582
C1544	A1480	G1334	G1275	A1208	U1068	G991	G921	C851	C	C	G583	C583
A1545	G1481	C1335	G1276	A1209	G1068	A992	A922	C852	A	A	C660	C584
G1546	C1482	C1336	A1277	G1210	U1069	A986	G924	C853	G	C	C661	C585
	A1483	C1337	C1278	G1211	A1070		G925		C	C	G662	G586
	A1484		A1278	G1212	G1071		A926	U863	C	C	U666	A587
G1550	U1485	G1341	C1279	G1213	U1080	G989	C927	A864	U	C	U667	G588
U1551	A1486	U1342	G1280	A1214	U1081	G990	G928	A865	C	C	A668	A590
G1552	C1553	U1343	G1281	G1215	U1082	G991	G929	C791	C	C	A669	U591
C1554	A1487	G1344	A1282	G1216	A1083	A992	C930	G868	G	A	C732	C592
U1555	A1488	U1345	C1283	A1217	U1084	A986	C931	A869	U	C	C733	C593
A1556	G1490	G1346	A1284	G1218	C1079	U1003	G932	A870	A	A	A671	A594
C1557	G1491	G1347	G1285	C1219	A1080	U1004	G933	U795	C	C	C735	U595
U1558	U1492	U1350	U1286	A1220	U1081	U1005	G934	A872	C	C	C736	U596
C1559	C1493	G1354	A1287		U1082	A1008		C873	C	C	C737	G597
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A1561	G1495	C1356	C1289	A1224	U1084	U1016	U939	A875	C	C	C739	A599
C1562	U1496	G1357	G1290	U1225	C1085	U1017	C941	C877	U	C	U682	A604
G1563	G1497	U1358	A1291	G1226	U1086	U1018	G942	C878	U	C	G683	A605
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		U1360	U1293		G1097	U1020	G947	U882	C	C	C745	U607
U1565	C1501	U1361	A1293	C1231	C1098	U1021		U883	A	A	C746	C608
G1566	G1502	G1362	G1294	U1232	U1098	U1022	C950	C884	U	C	U747	U609
C1567	U1503	U1363	A1295	G1233	G1102	A1023	C951		C	C	U748	
A1568	U1504	G1364	U1296	C1234	C1103	A1024	C952	U887	U	U	U749	
U1569	U1505	U1365	U1297	G1235	G1104	A1027	C953	U888	C	C	C750	G613
G1570	A1506	U1366	G1298	G1236	G1109	A1028	U954	U889	C	C	G751	C614
C1571	G1507	U1367	A1299	C1237	C1110	G1029	A955	U890	C	C	G752	
U1572	U1508	G1372	U1300	U1238	U1111	G1109	G956	C891	U	U	C753	G617
G1573	U1509	C1373	A1301	U1239	U1112	G1110	A957	U892	C	C	G694	C618
C1574	G1510	G1374	G1302	A1240	U1113	G1111	A958	U893	C	C	C695	C621
U1575	U1511	G1375	C1303	A1241	U1114	G1112	G959	C894	C	C	G696	
G1576	A1446	A1376	U1304	U1242	U1115	G1113	U960	C895	C	C	G697	G626
U1577	G1447	U1377	C1305	U1243	U1116	G1114	G961	U896	C	C	G698	U627
C1578	A1448	U1378	U1306	U1244	C1180	U1117	A962	U897	U	U	C	A628
A1579	G1514	A1379	U1307	G1245	A1181	U1118	A963	U898	C	C	G	A629
U1580	U1515	C1380	U1308	A1246	A1182	U1119	A964	U899	U	U	G	U630
G1581	G1516	G1381	C1309	G1247	A1183	U1120			C	C		
C1582	U1517	A1382	U1310	U1248	A1184	U1121			C	C		
G1583	U1518	A1383	C1311	G1249	G1184	U1122			C	C		
U1584	C1519	C1384	G1312	A1250	C1185	U1123			C	C		
G1585	U1520	U1313	A1313	A1251	C1117	G1117			C	C		
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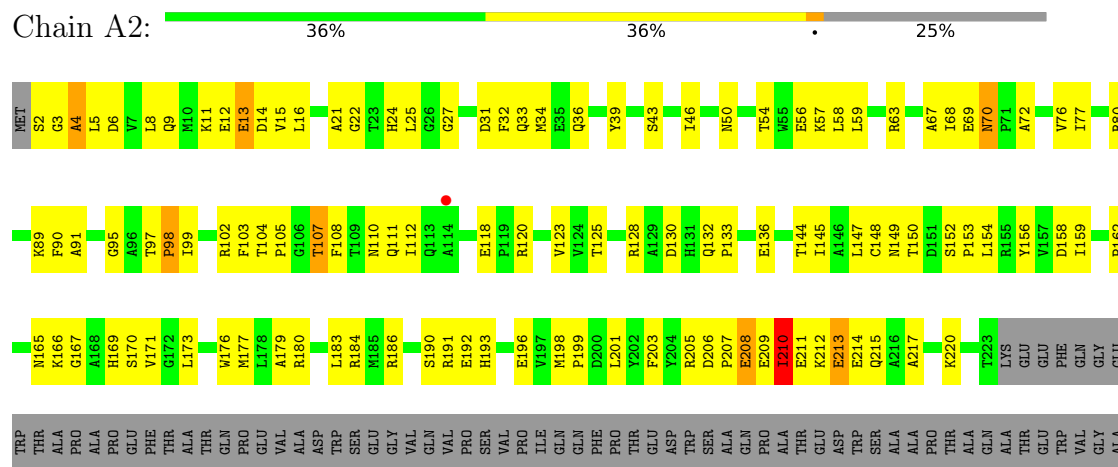




• Molecule 22: 40S ribosomal protein SA

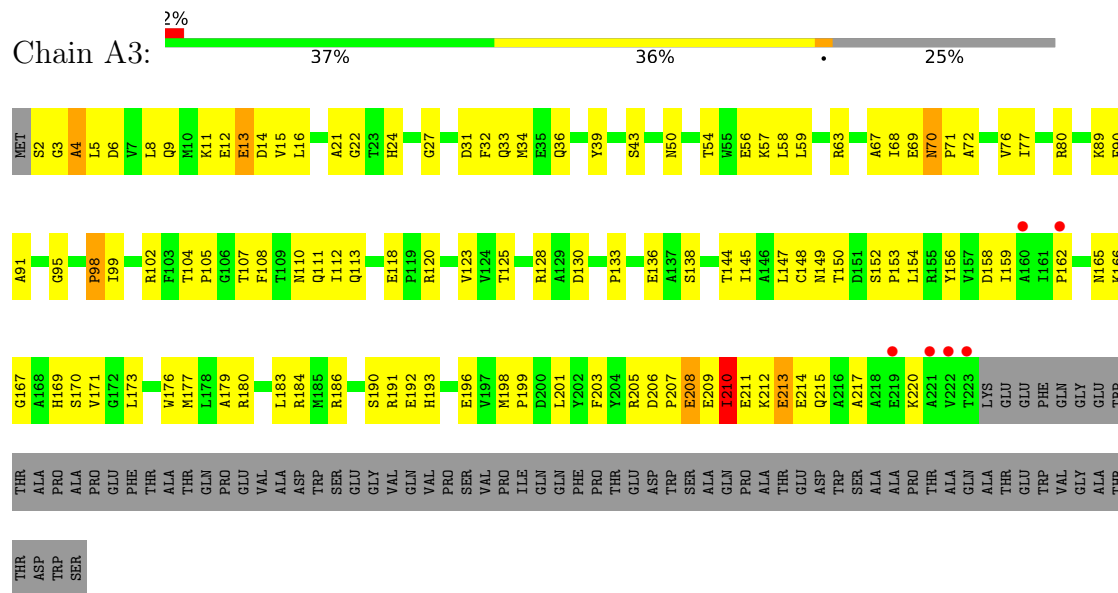


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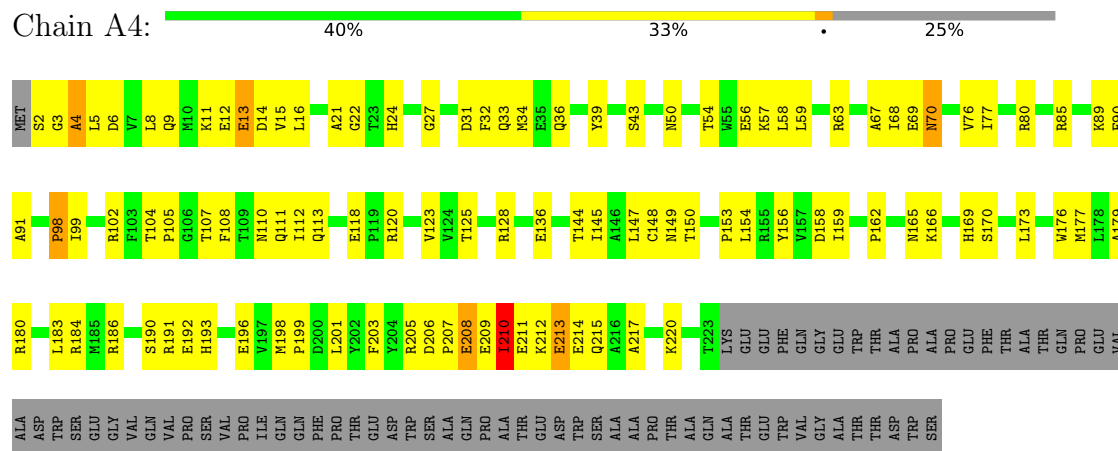


THR
THR
ASP
TRP
SER

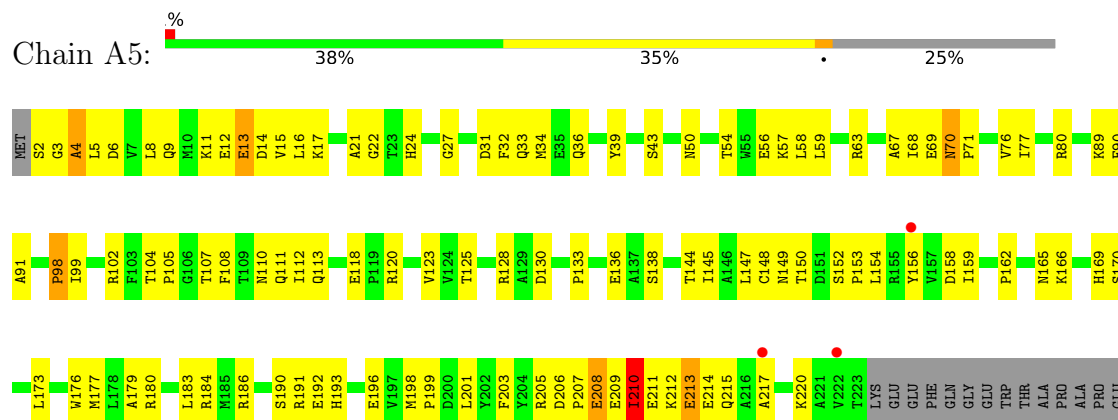
• Molecule 22: 40S ribosomal protein SA



• Molecule 22: 40S ribosomal protein SA



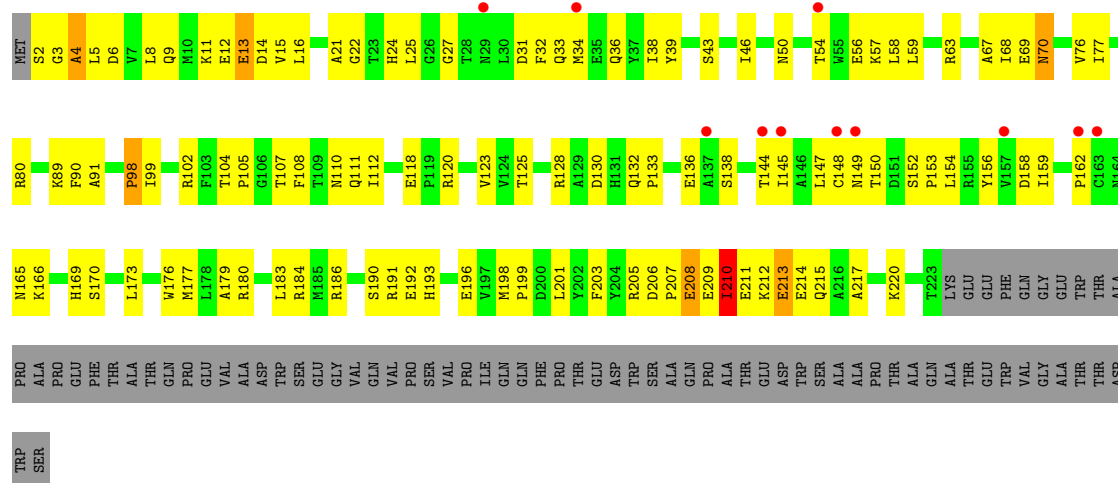
• Molecule 22: 40S ribosomal protein SA



PHE THR ALA THR GLN PRO PRO GLU VAL ALA ASP TRP SER GLU GLY VAL GLN VAL PRO PRO VAL PRO ILE GLN GLN PHE PRO THR ASP TRP SER ALA GLN PRO ALA THR ASP TRP VAL ALA THR VAL GLY THR ASP TRP SER

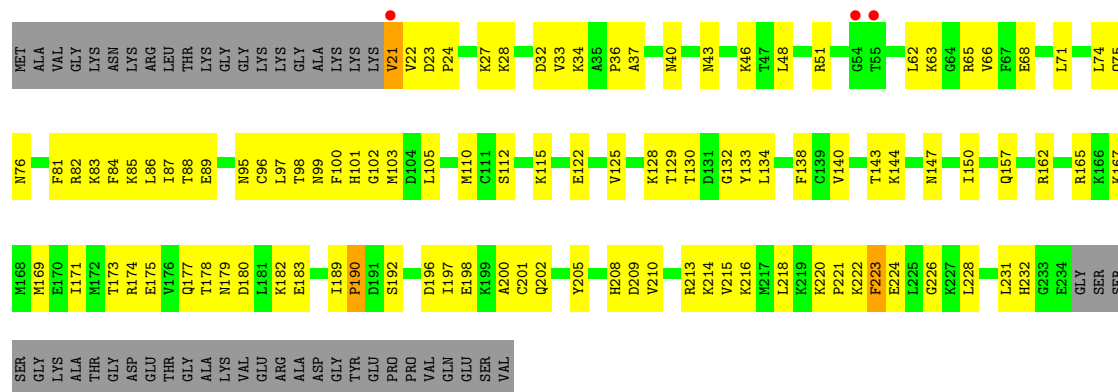
• Molecule 22: 40S ribosomal protein SA

Chain A6: 4% 38% 35% 25%



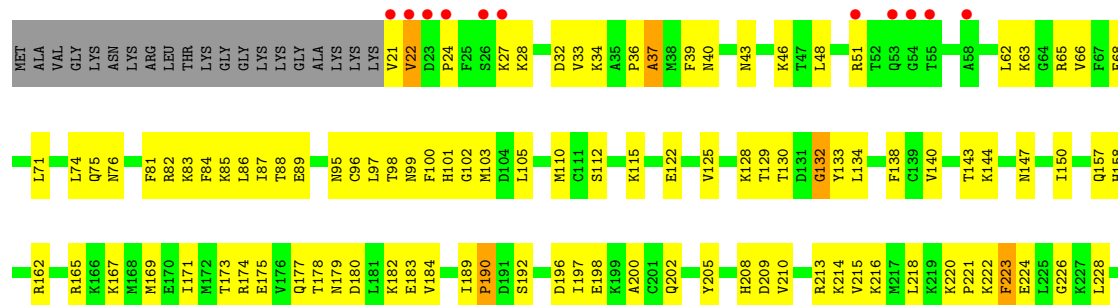
• Molecule 23: 40S ribosomal protein S3a

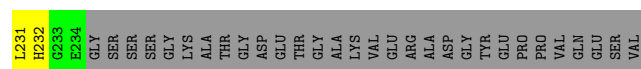
Chain B1: % 42% 38% 19%



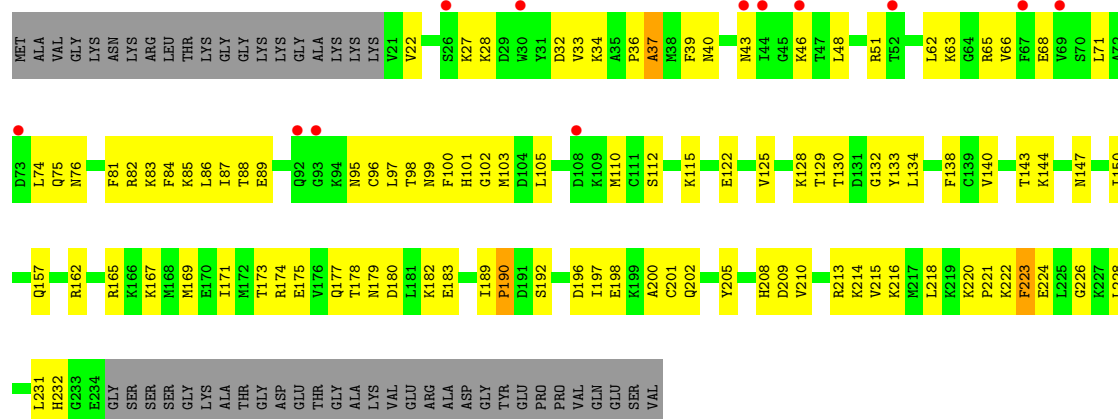
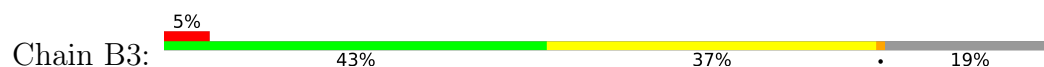
• Molecule 23: 40S ribosomal protein S3a

Chain B2: 4% 42% 38% 19%

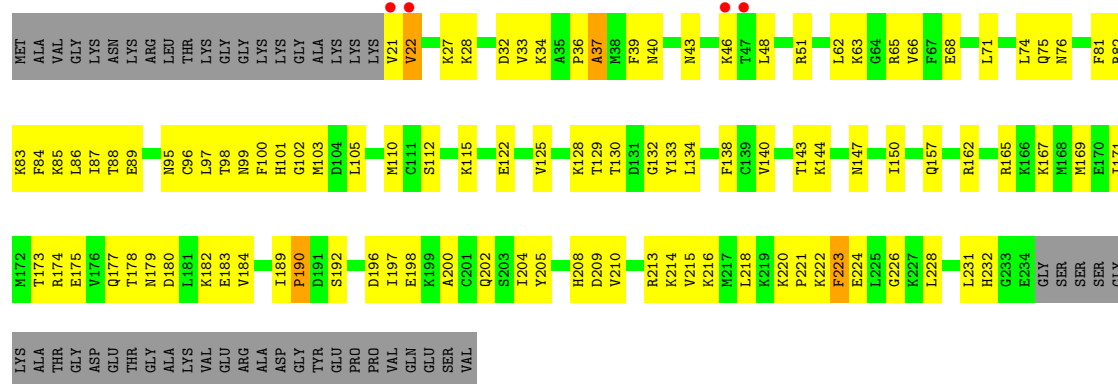




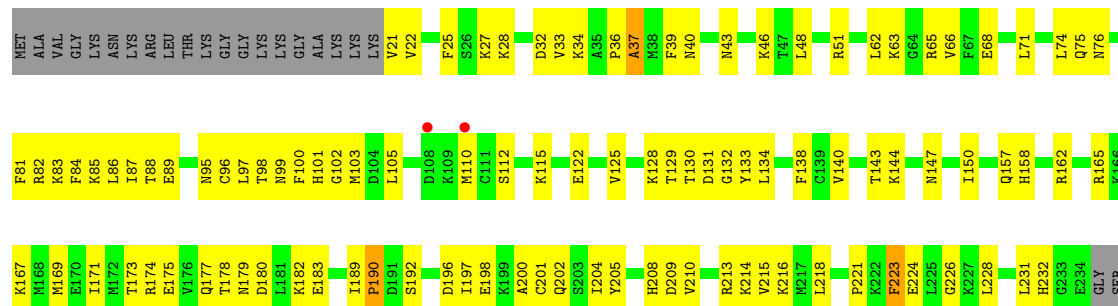
• Molecule 23: 40S ribosomal protein S3a



• Molecule 23: 40S ribosomal protein S3a



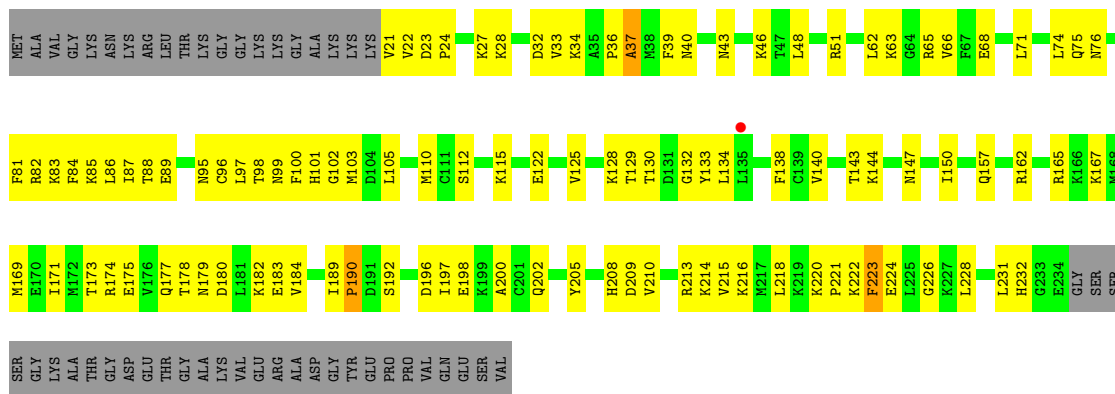
• Molecule 23: 40S ribosomal protein S3a



SER
SER
GLY
LYS
GLY
THR
ALA
THR
GLY
ASP
GLU
THR
LYS
GLY
ALA
LYS
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GLY
TYR
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PRO
PRO
VAL
GLN
GLU
SER
VAL

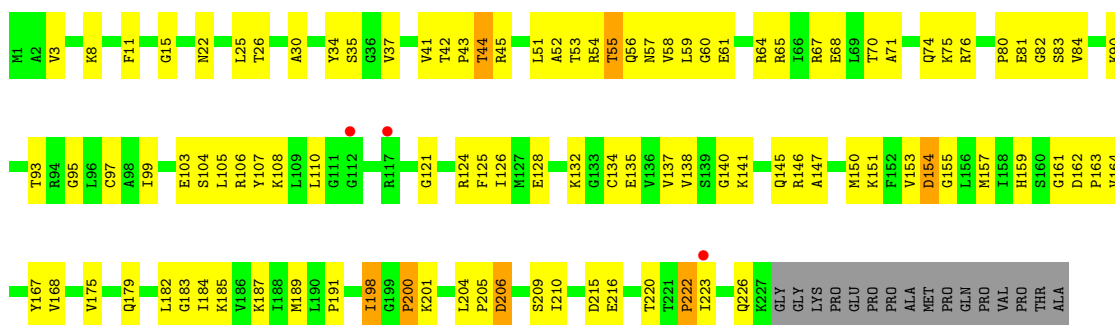
• Molecule 23: 40S ribosomal protein S3a

Chain B6: 42% 38% 19%



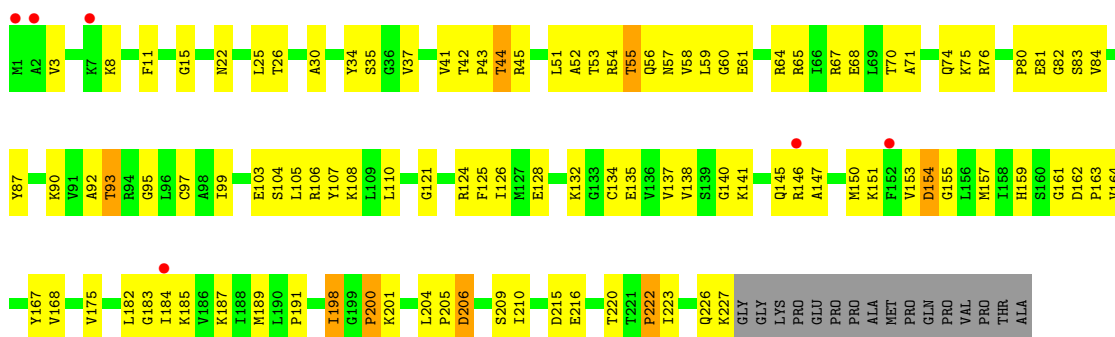
• Molecule 24: 40S ribosomal protein S3

Chain D1: 51% 40% 7%



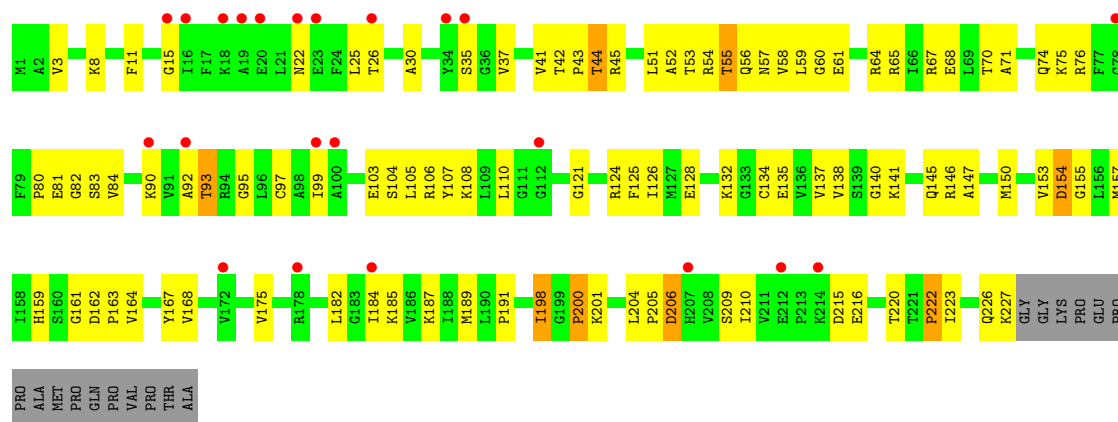
• Molecule 24: 40S ribosomal protein S3

Chain D2: 50% 40% 7%



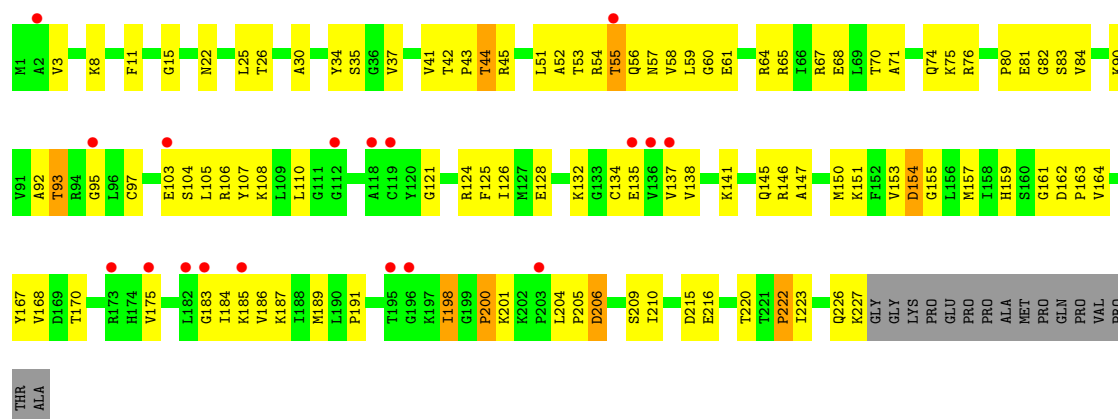
• Molecule 24: 40S ribosomal protein S3

Chain D3: 9% 51% 39% 7%



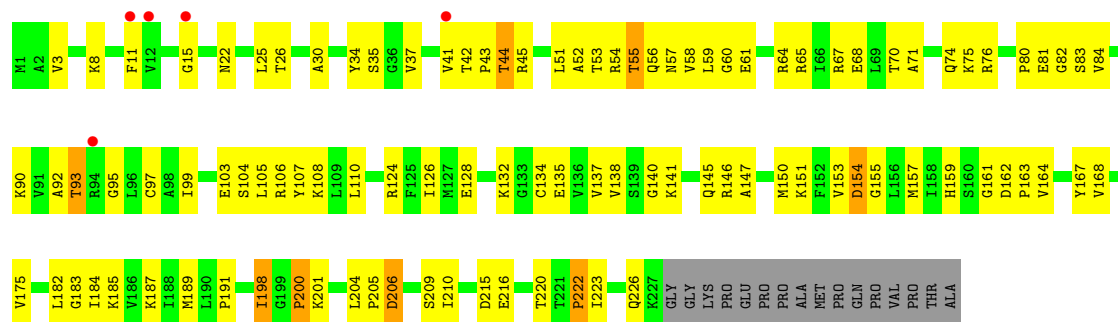
• Molecule 24: 40S ribosomal protein S3

Chain D4: 7% 51% 40% 7%



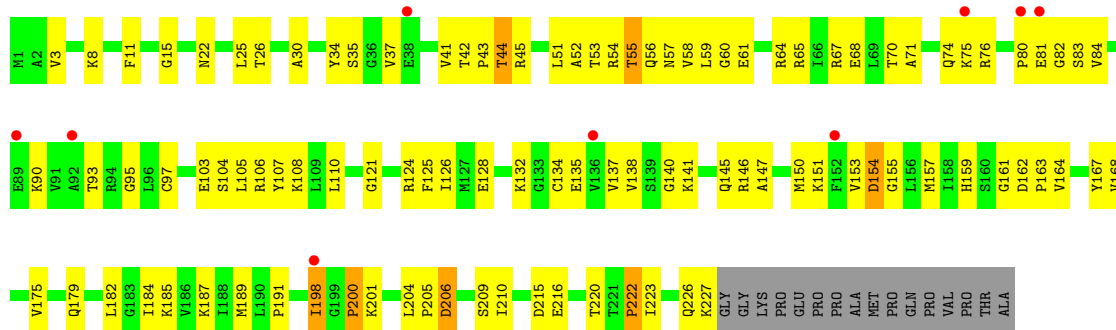
• Molecule 24: 40S ribosomal protein S3

Chain D5: 2% 51% 39% 7%



• Molecule 24: 40S ribosomal protein S3

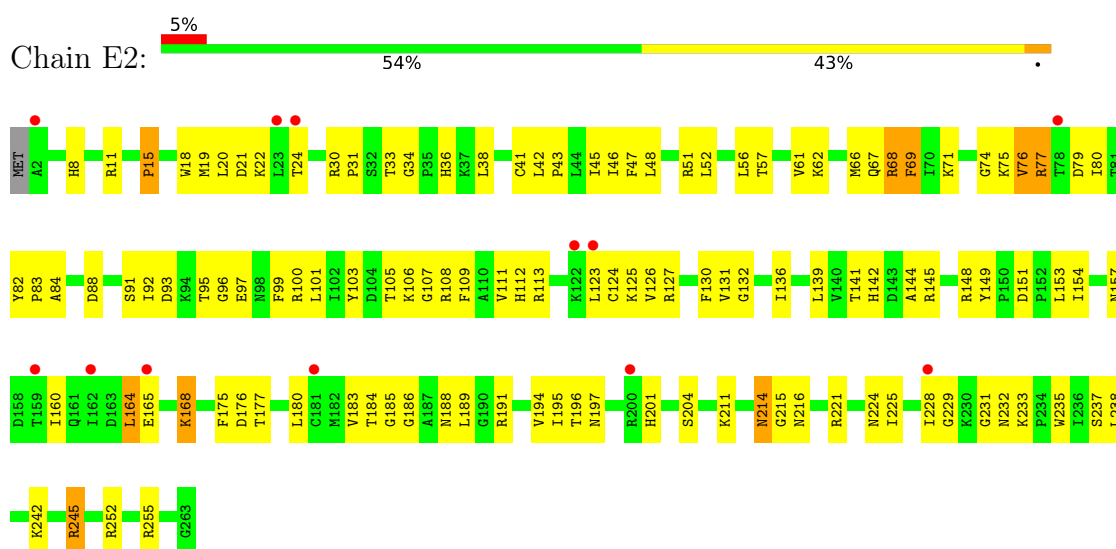
Chain D6: 4% 51% 40% 7%



• Molecule 25: 40S ribosomal protein S4, X isoform

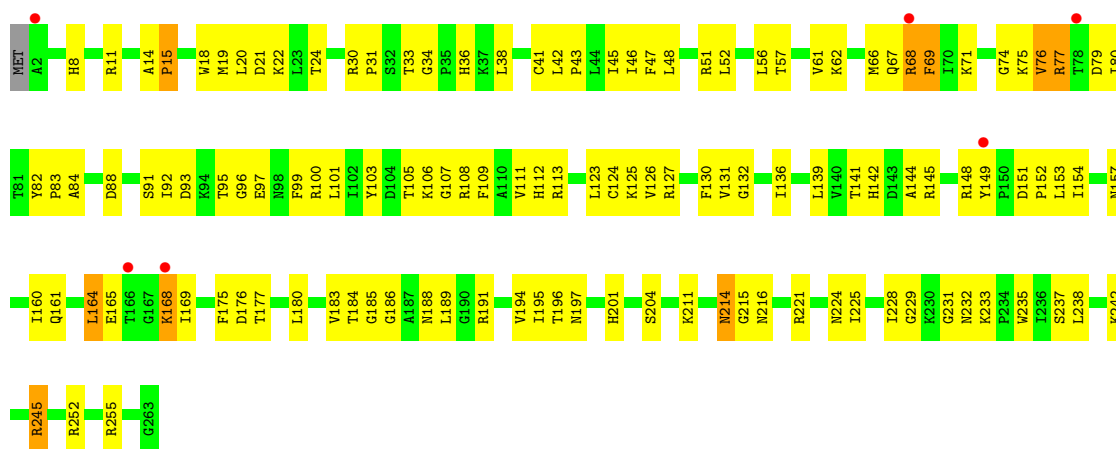


• Molecule 25: 40S ribosomal protein S4, X isoform

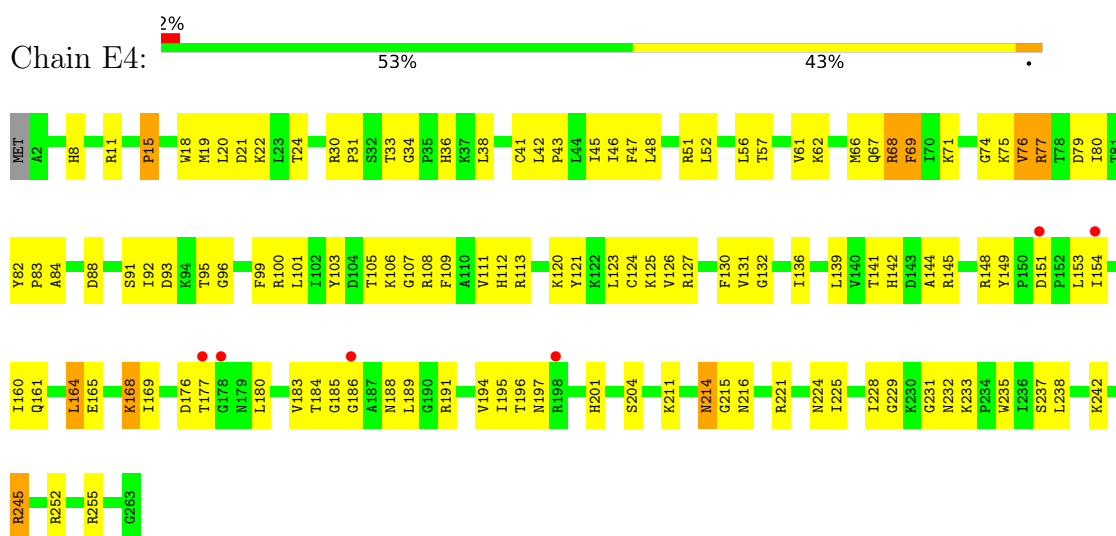


• Molecule 25: 40S ribosomal protein S4, X isoform

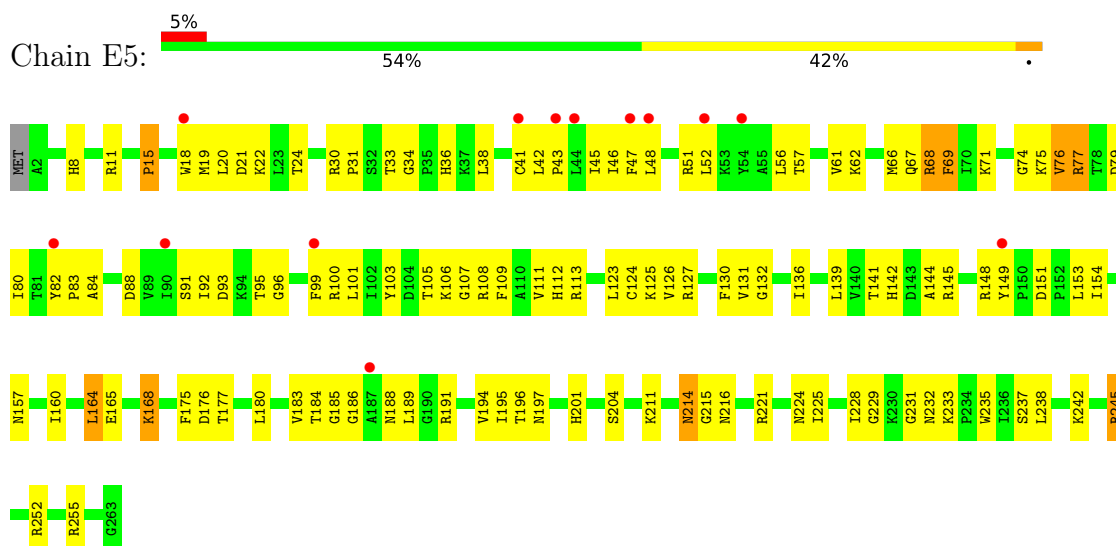




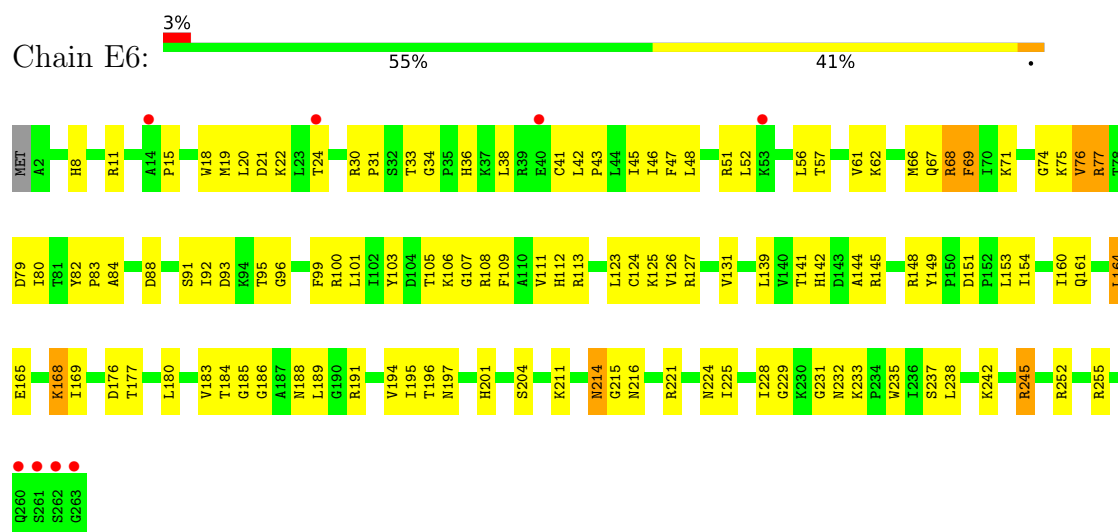
- Molecule 25: 40S ribosomal protein S4, X isoform



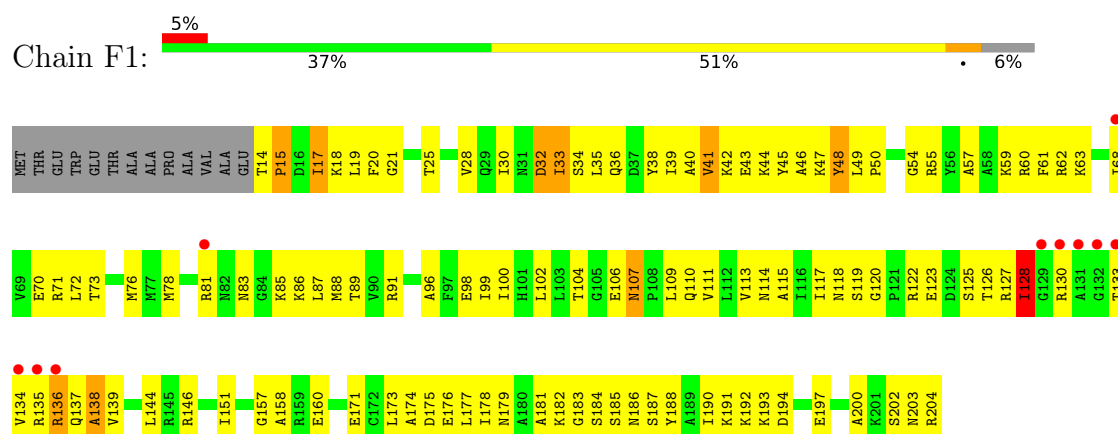
- Molecule 25: 40S ribosomal protein S4, X isoform



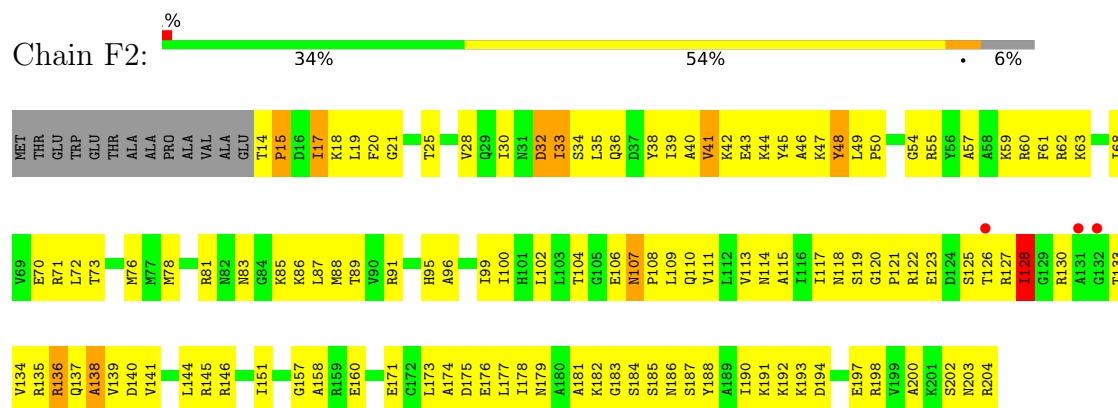
- Molecule 25: 40S ribosomal protein S4, X isoform



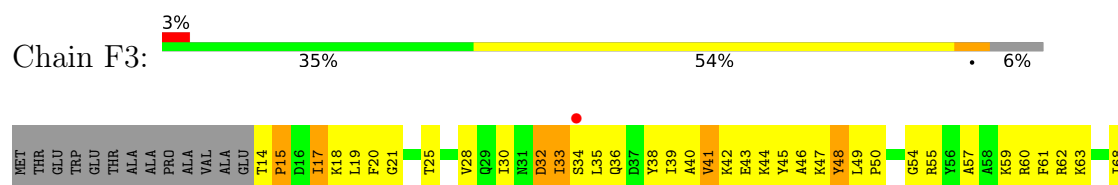
- Molecule 26: 40S ribosomal protein S5

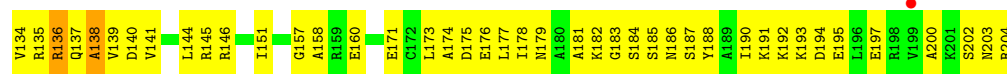


- Molecule 26: 40S ribosomal protein S5

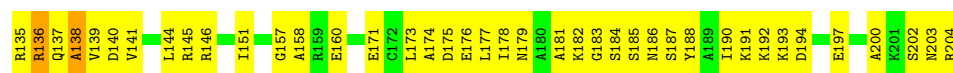
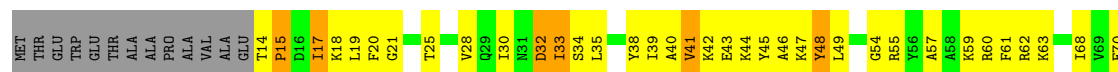


- Molecule 26: 40S ribosomal protein S5

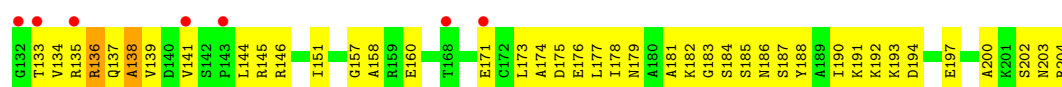
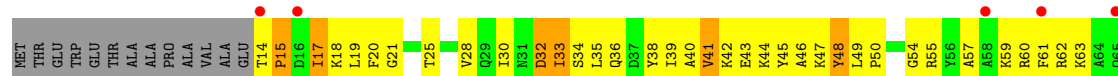




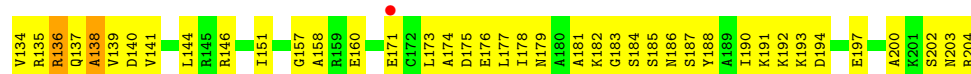
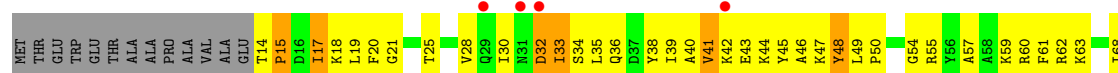
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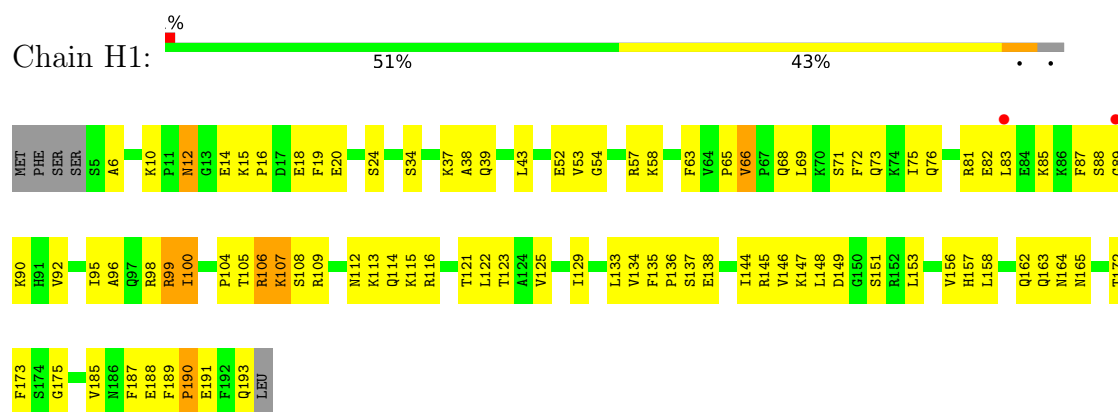
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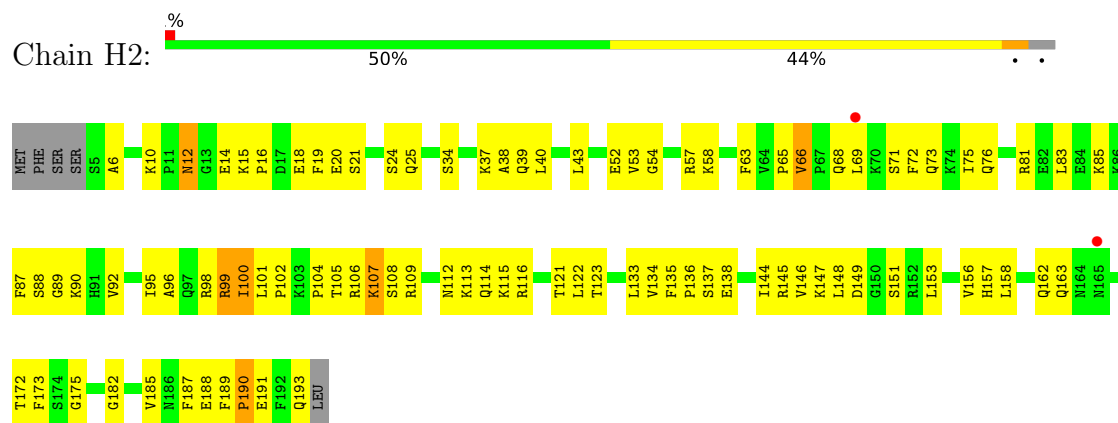
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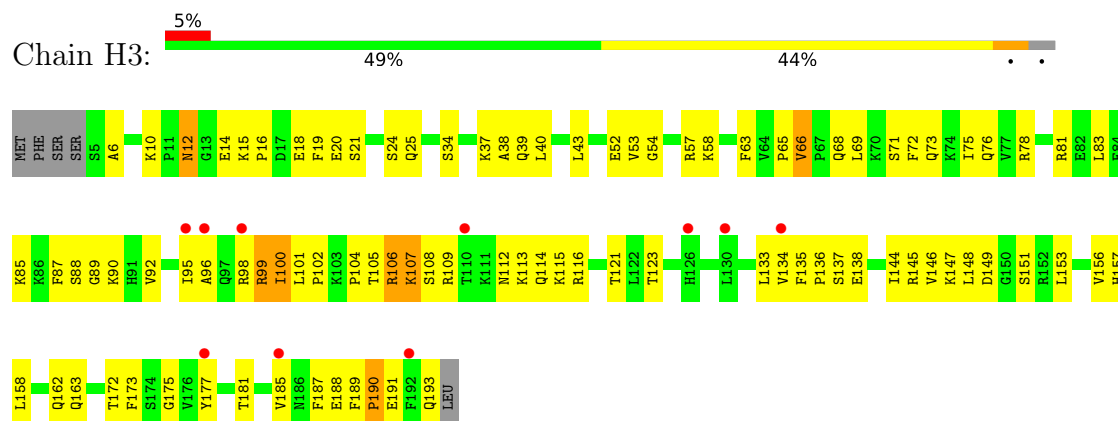
• Molecule 27: 40S ribosomal protein S7



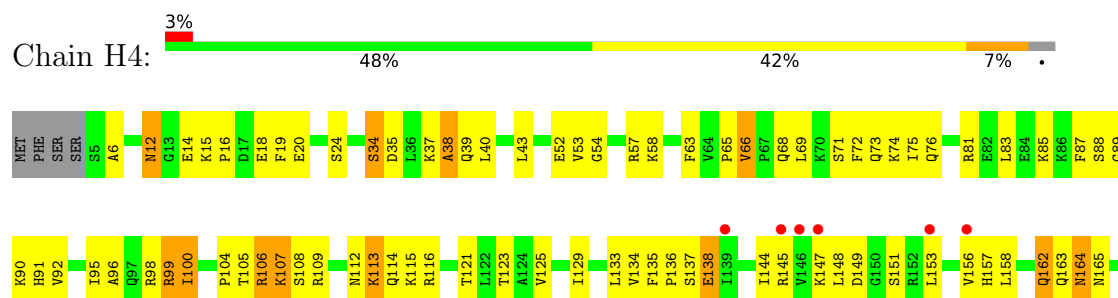
- Molecule 27: 40S ribosomal protein S7

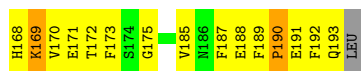


- Molecule 27: 40S ribosomal protein S7

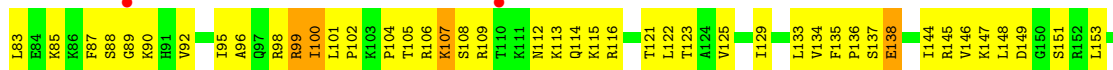
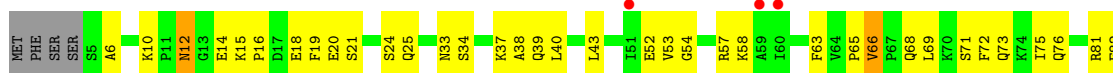


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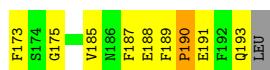
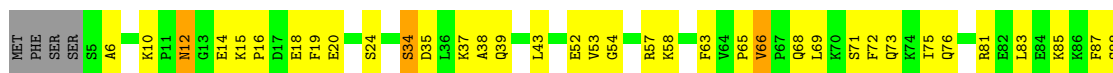




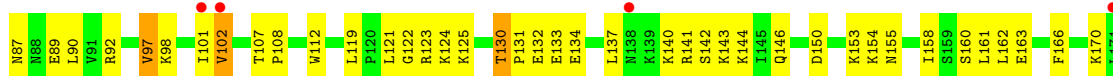
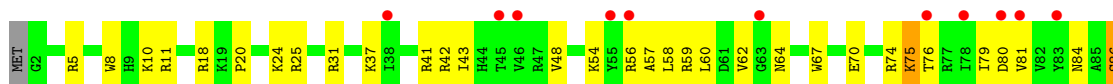
- Molecule 27: 40S ribosomal protein S7



- Molecule 27: 40S ribosomal protein S7

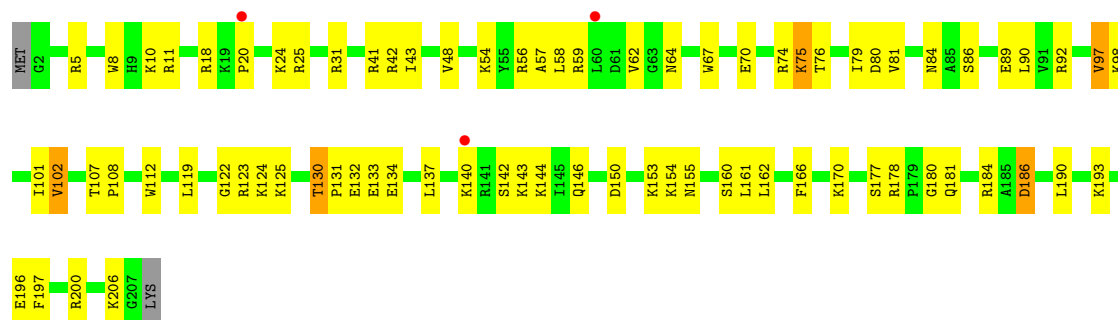


- Molecule 28: 40S ribosomal protein S8

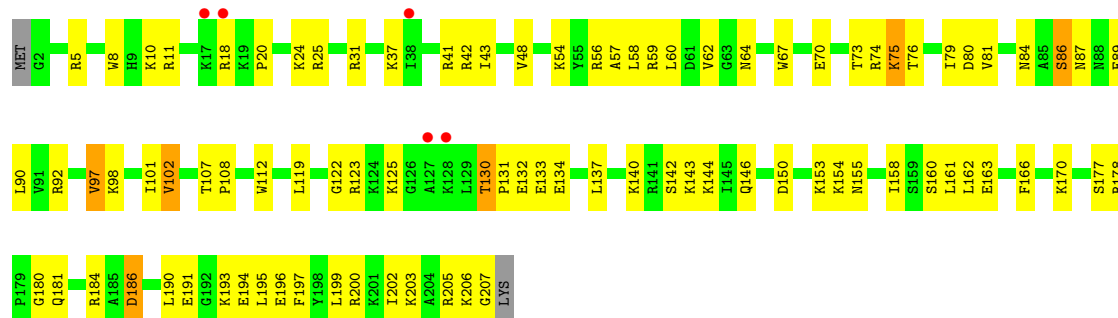


- Molecule 28: 40S ribosomal protein S8

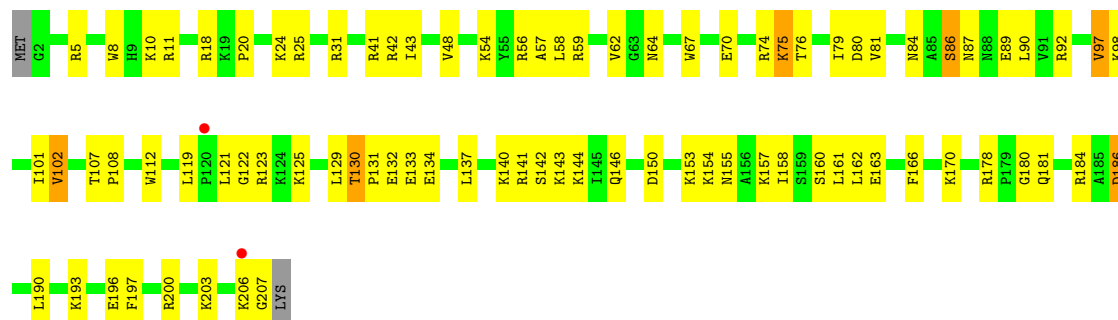




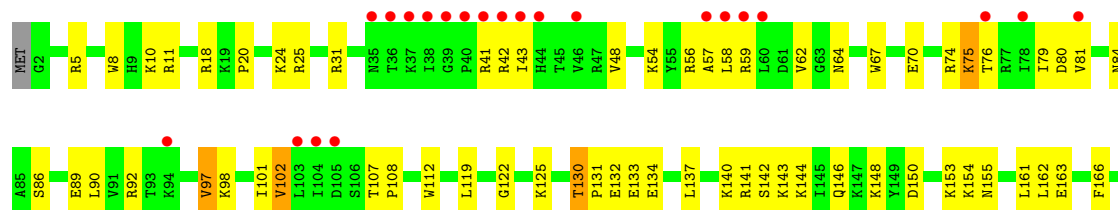
- Molecule 28: 40S ribosomal protein S8



- Molecule 28: 40S ribosomal protein S8

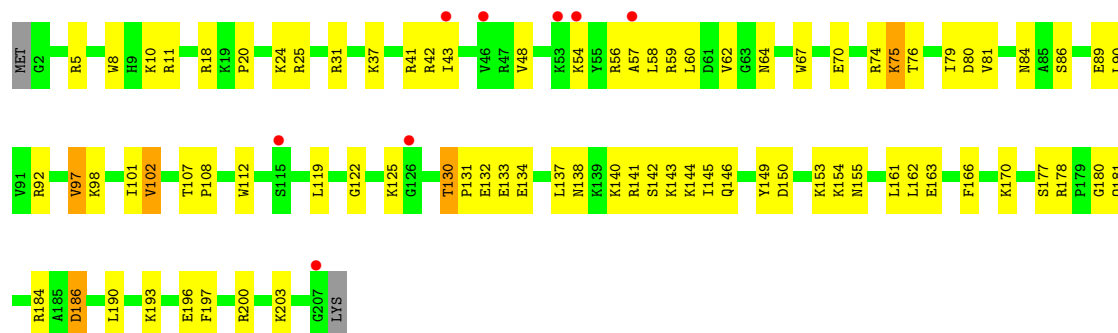


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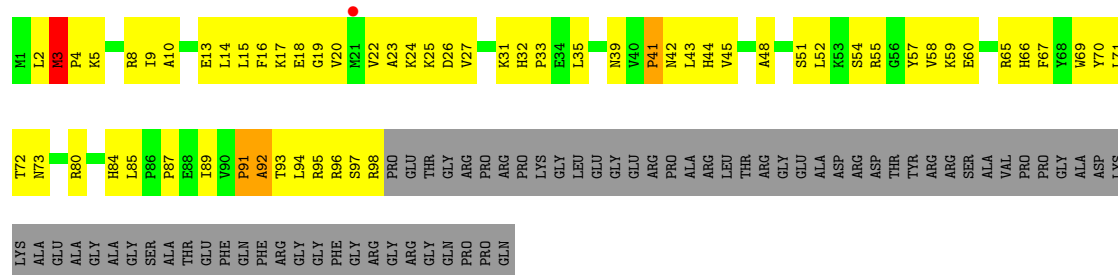
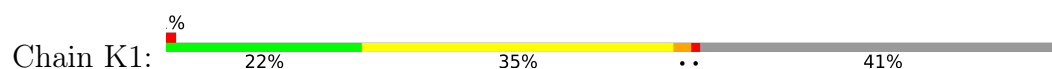


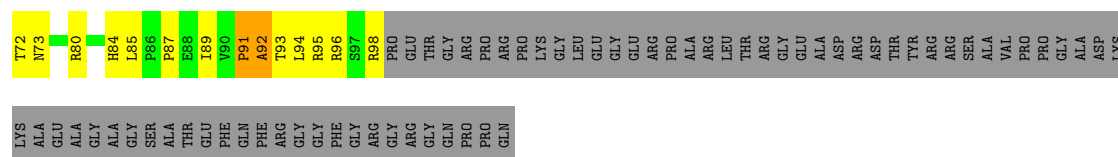


- Molecule 28: 40S ribosomal protein S8

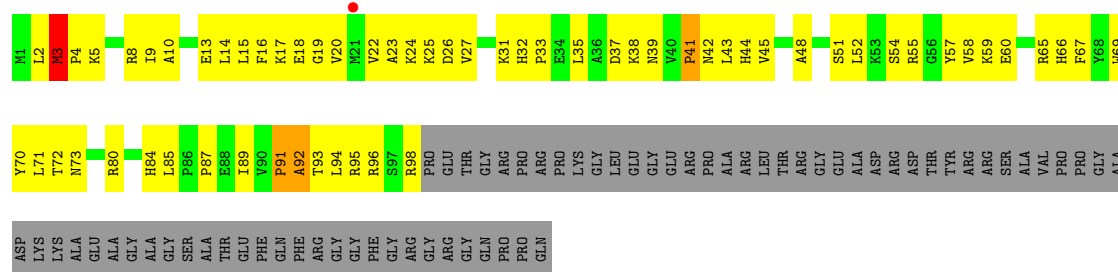
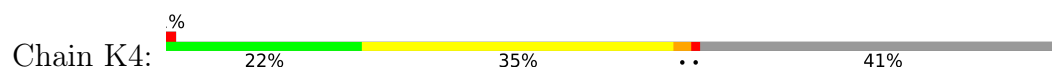


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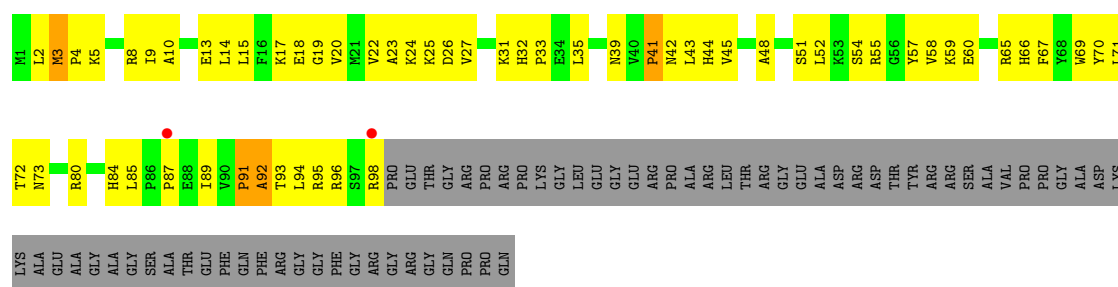
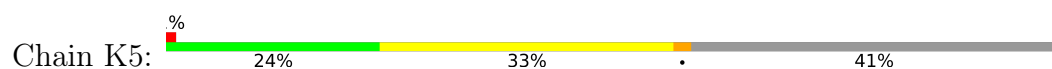


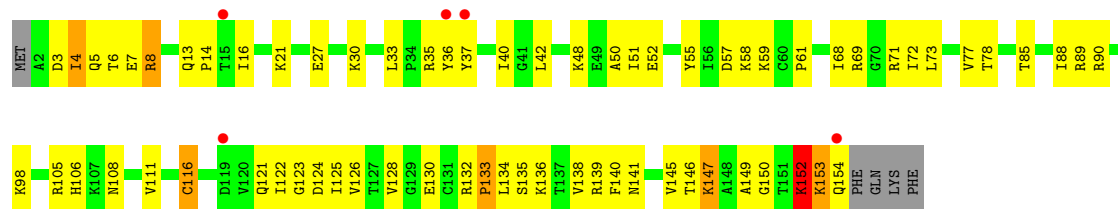


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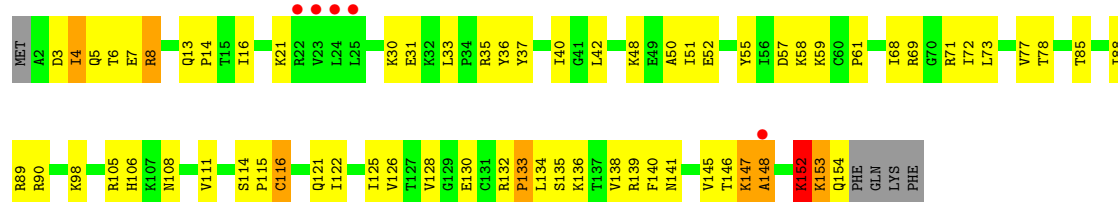


- Molecule 29: 40S ribosomal protein S10

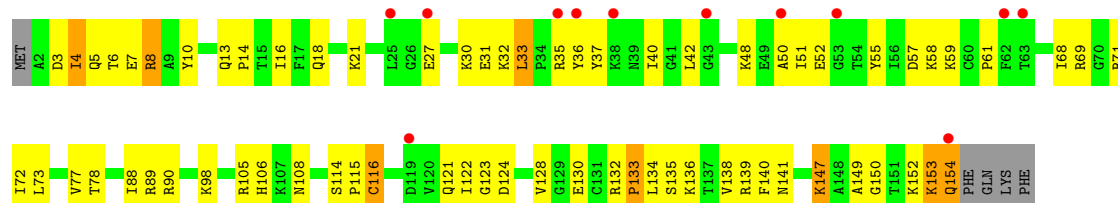




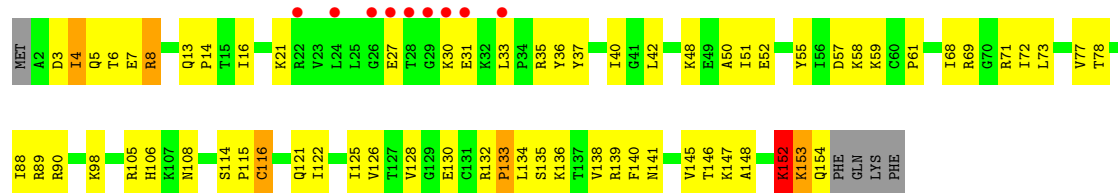
• Molecule 30: 40S ribosomal protein S11



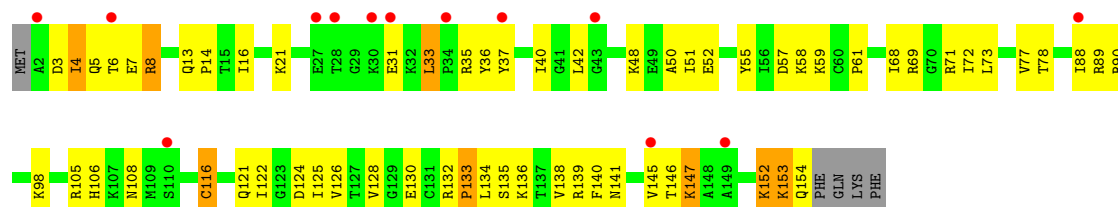
• Molecule 30: 40S ribosomal protein S11



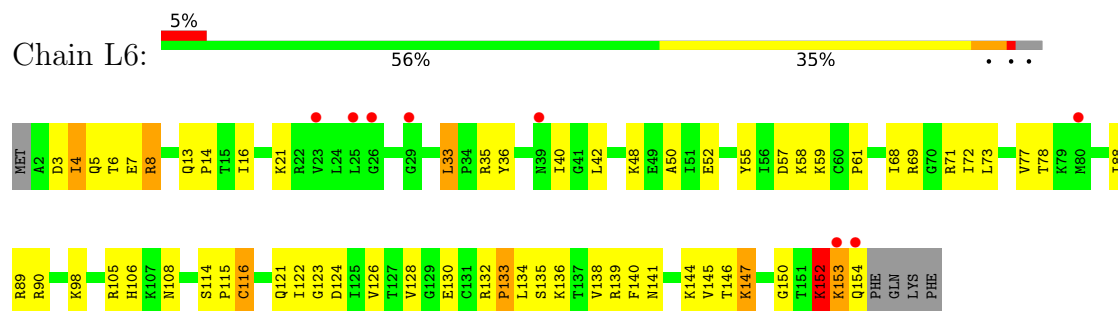
• Molecule 30: 40S ribosomal protein S11



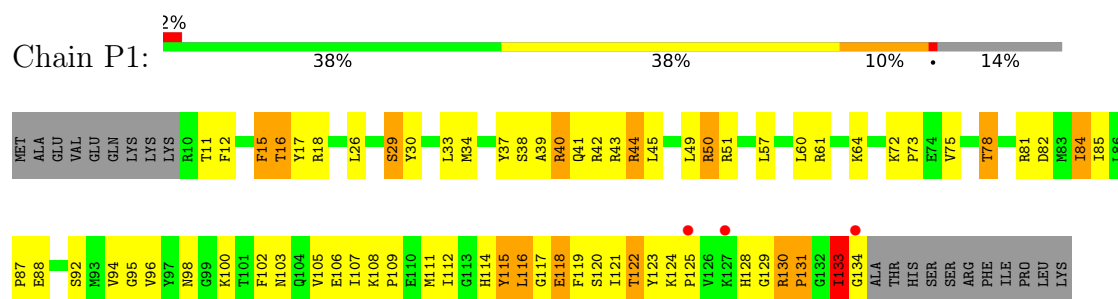
• Molecule 30: 40S ribosomal protein S11



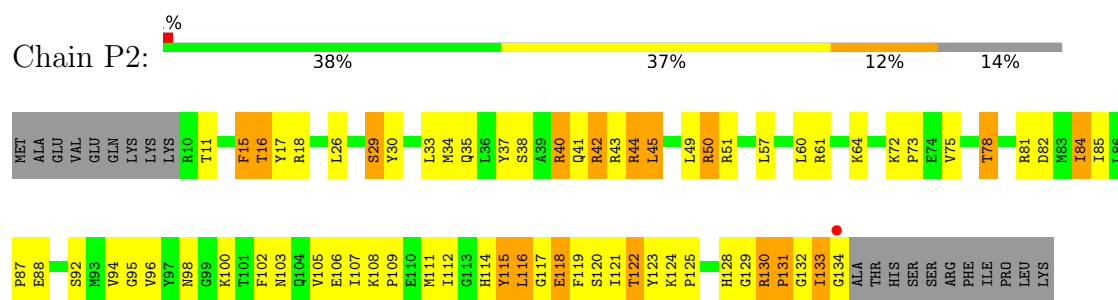
- Molecule 30: 40S ribosomal protein S11



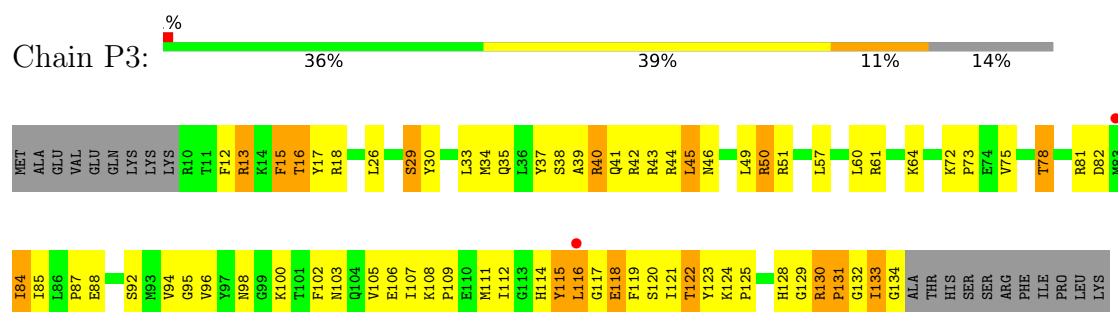
- Molecule 31: 40S ribosomal protein S15



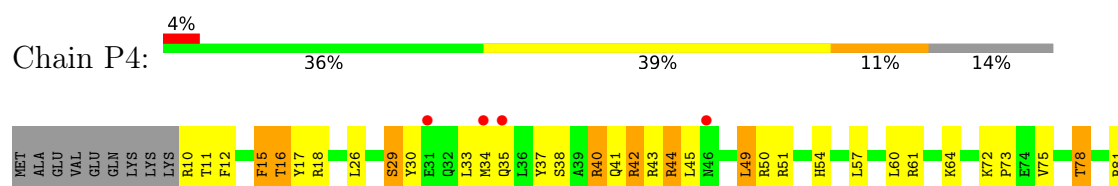
- Molecule 31: 40S ribosomal protein S15



- Molecule 31: 40S ribosomal protein S15



- Molecule 31: 40S ribosomal protein S15





- Molecule 31: 40S ribosomal protein S15



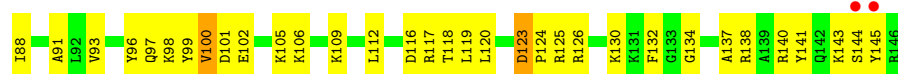
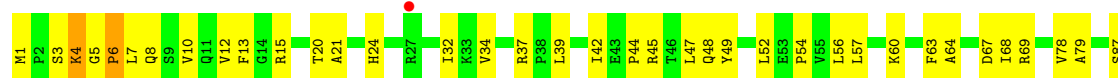
- Molecule 31: 40S ribosomal protein S15



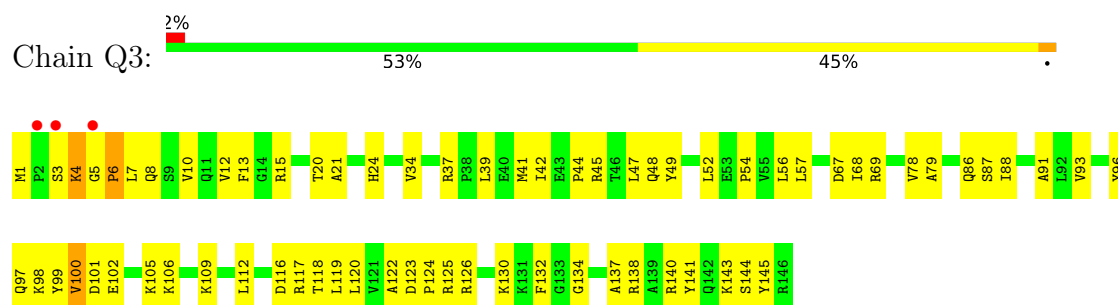
- Molecule 32: 40S ribosomal protein S16



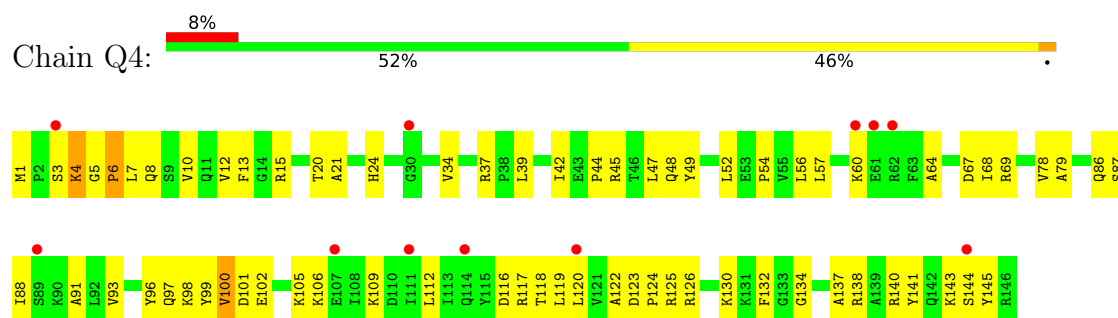
- Molecule 32: 40S ribosomal protein S16



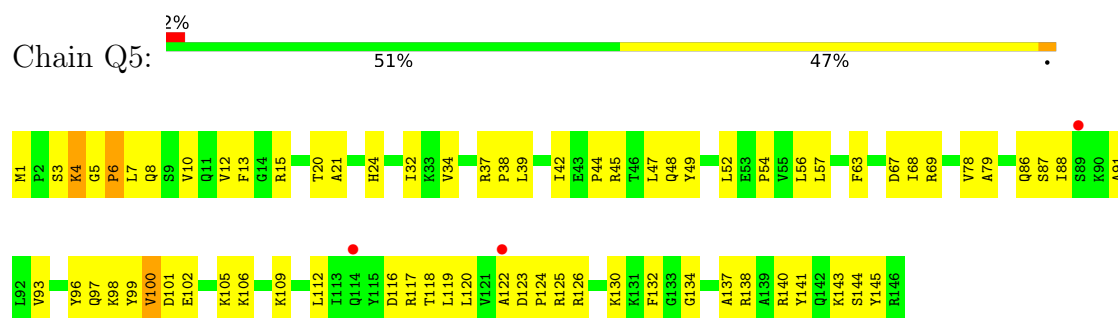
- Molecule 32: 40S ribosomal protein S16



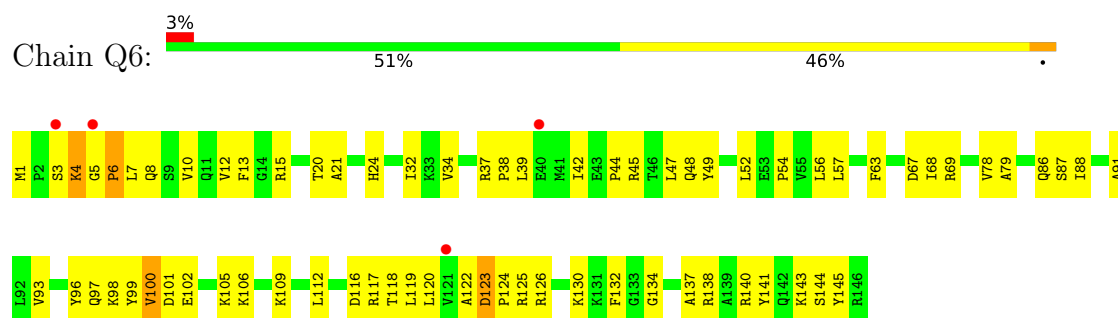
- Molecule 32: 40S ribosomal protein S16



- Molecule 32: 40S ribosomal protein S16

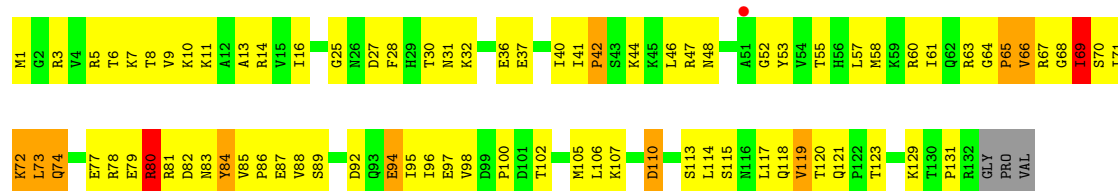


- Molecule 32: 40S ribosomal protein S16

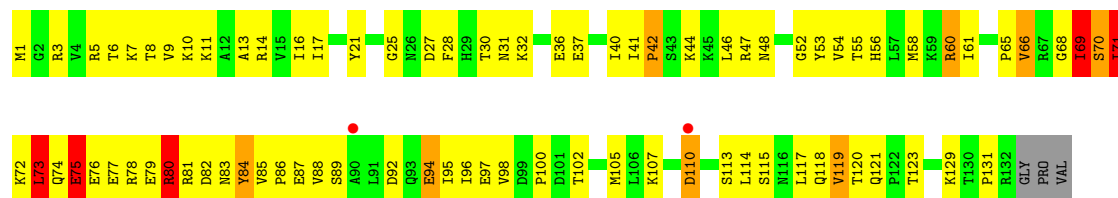


- Molecule 33: 40S ribosomal protein S17

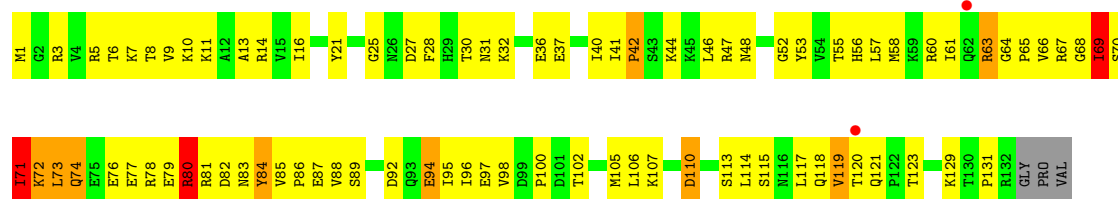




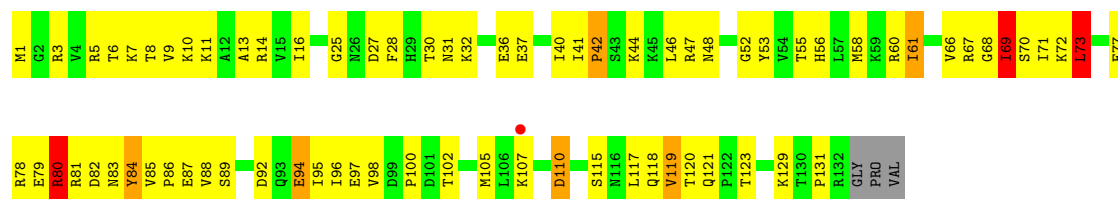
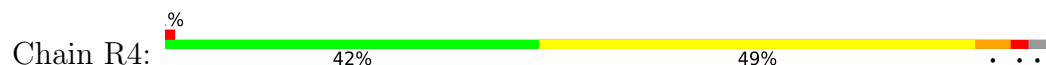
• Molecule 33: 40S ribosomal protein S17



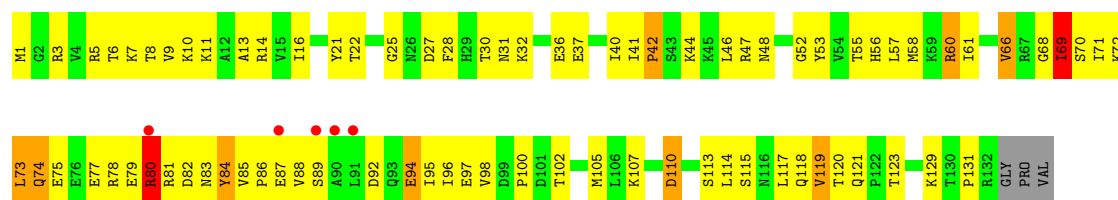
• Molecule 33: 40S ribosomal protein S17



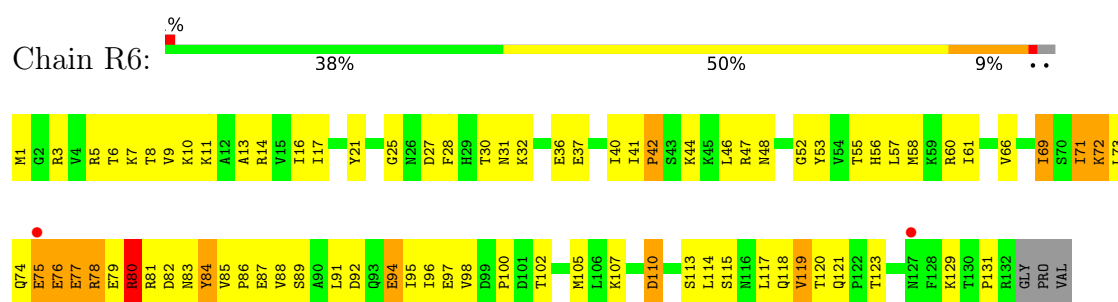
• Molecule 33: 40S ribosomal protein S17



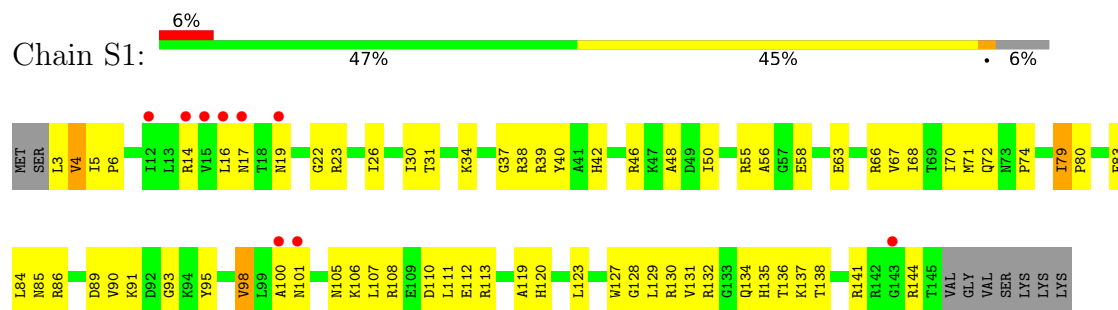
• Molecule 33: 40S ribosomal protein S17



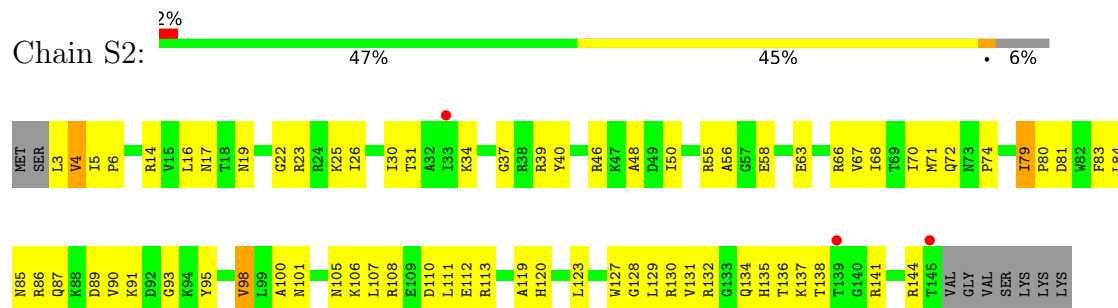
• Molecule 33: 40S ribosomal protein S17



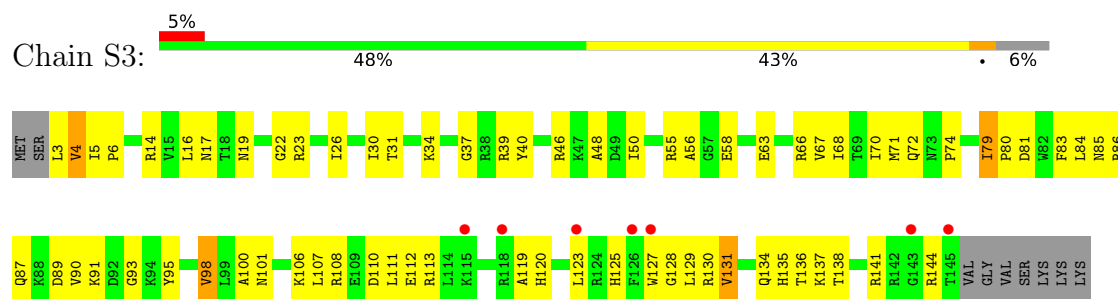
• Molecule 34: 40S ribosomal protein S18



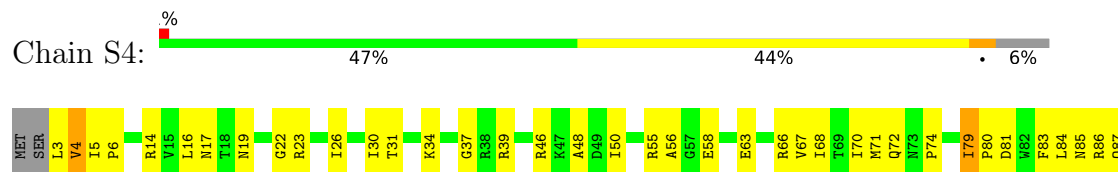
• Molecule 34: 40S ribosomal protein S18

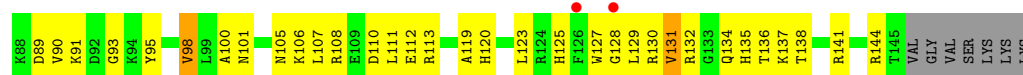


• Molecule 34: 40S ribosomal protein S18



• Molecule 34: 40S ribosomal protein S18

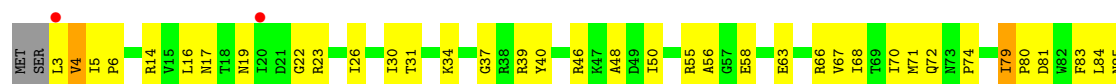




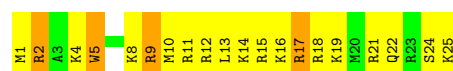
- Molecule 34: 40S ribosomal protein S18



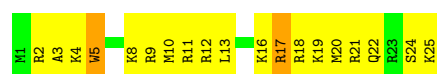
- Molecule 34: 40S ribosomal protein S18



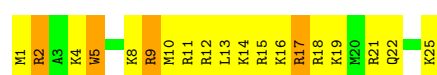
- Molecule 35: 60S ribosomal protein L41



- Molecule 35: 60S ribosomal protein L41

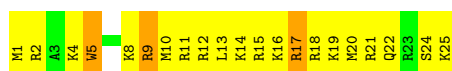


- Molecule 35: 60S ribosomal protein L41

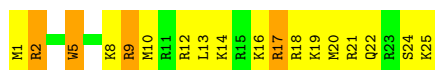


- Molecule 35: 60S ribosomal protein L41

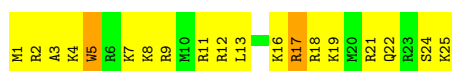




- Molecule 35: 60S ribosomal protein L41



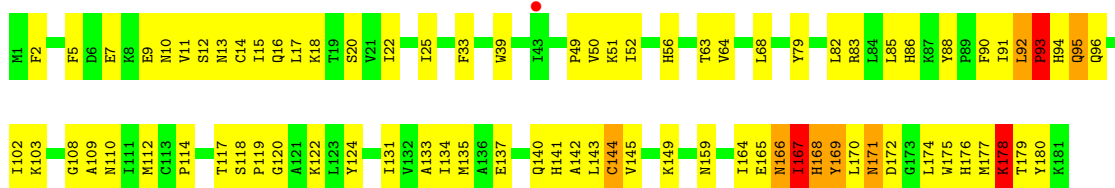
- Molecule 35: 60S ribosomal protein L41



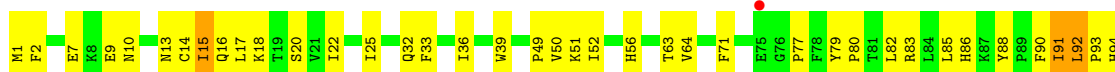
- Molecule 36: Malignant T-cell-amplified sequence 1



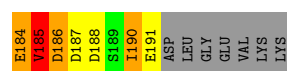
- Molecule 36: Malignant T-cell-amplified sequence 1



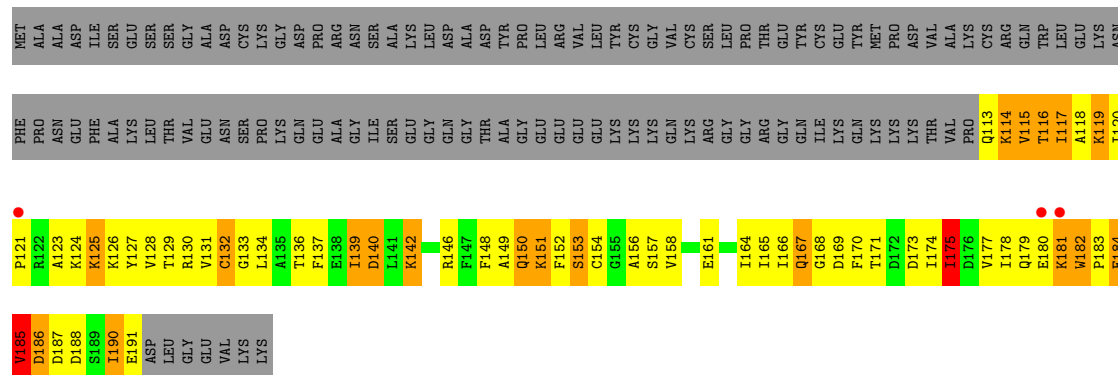
- Molecule 36: Malignant T-cell-amplified sequence 1



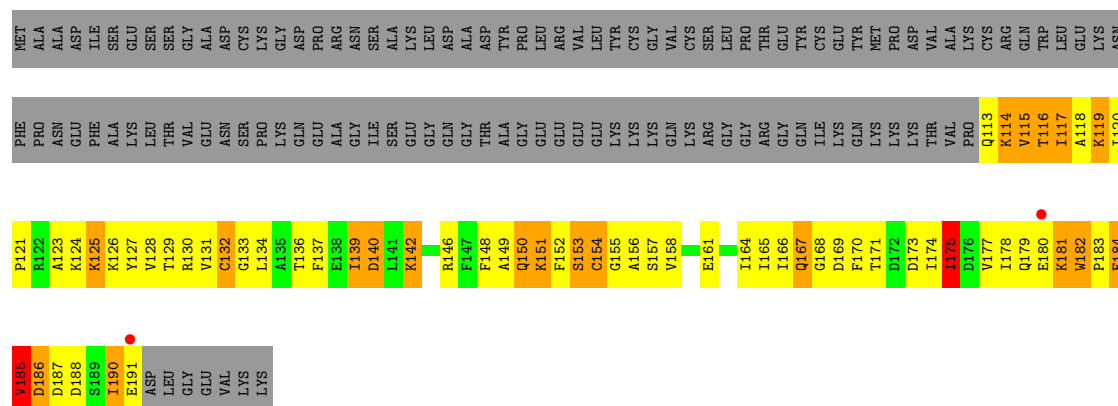




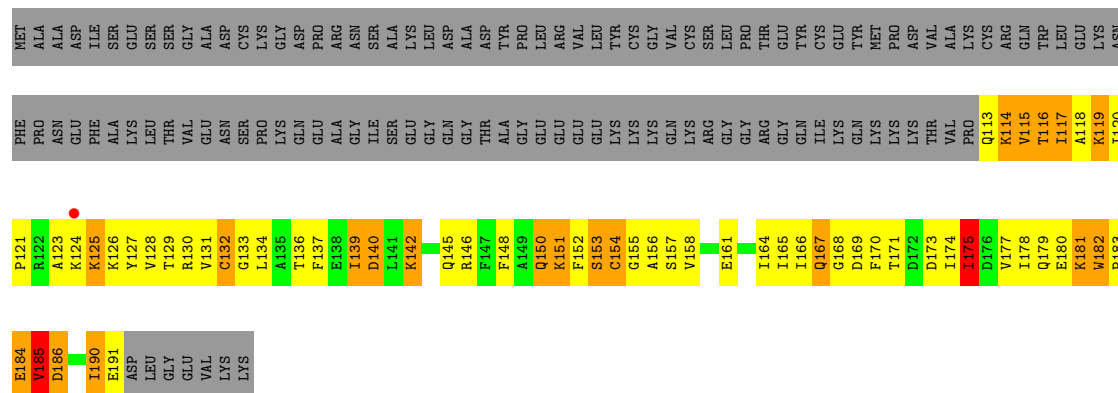
• Molecule 37: Density-regulated protein



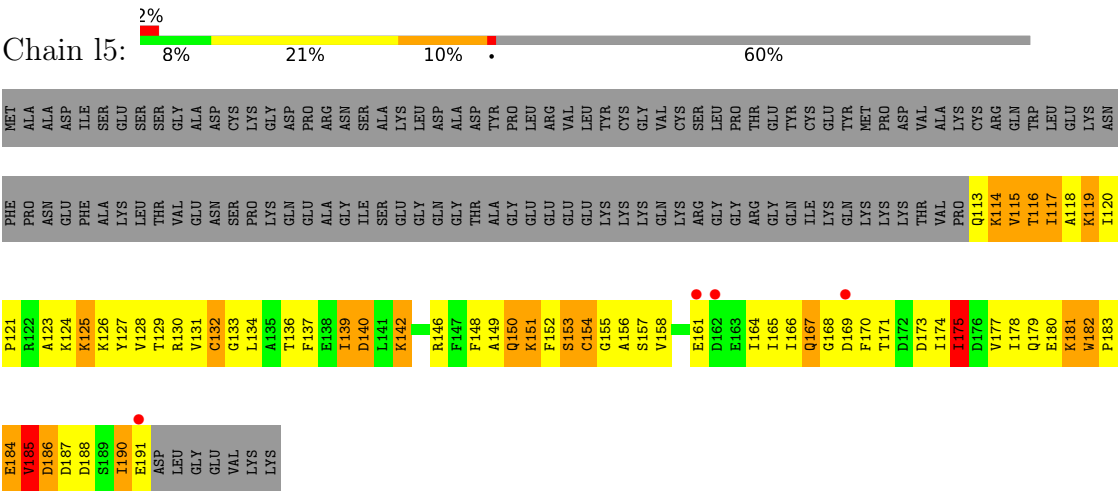
• Molecule 37: Density-regulated protein



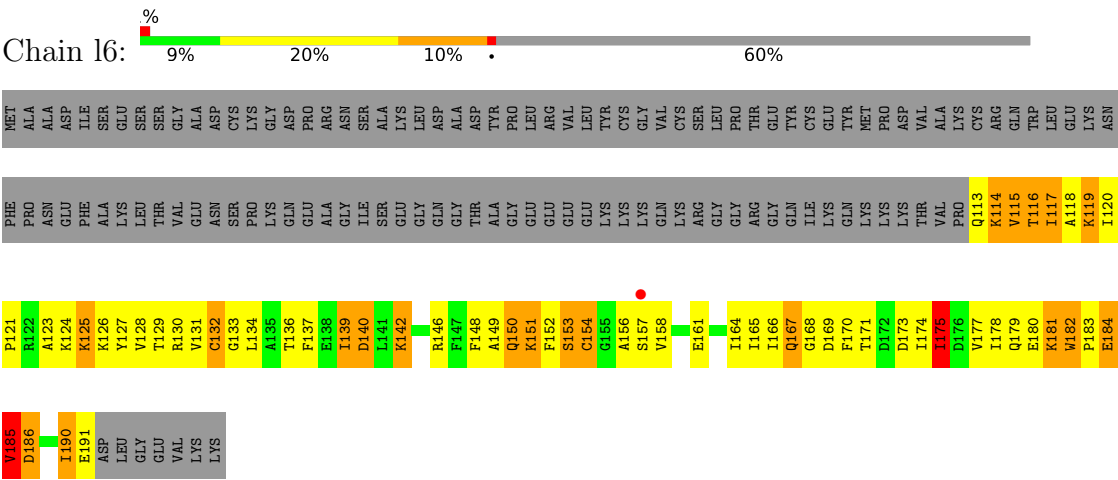
• Molecule 37: Density-regulated protein



● Molecule 37: Density-regulated protein



● Molecule 37: Density-regulated protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	334.67Å 597.13Å 336.50Å 90.00° 120.29° 90.00°	Depositor
Resolution (Å)	116.93 – 6.00 116.93 – 6.00	Depositor EDS
% Data completeness (in resolution range)	99.3 (116.93-6.00) 98.8 (116.93-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.00 (at 5.12Å)	Xtriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.323 , 0.321 0.323 , 0.320	Depositor DCC
R_{free} test set	19868 reflections (4.06%)	wwPDB-VP
Wilson B-factor (Å ²)	278.9	Xtriage
Anisotropy	0.061	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.10 , 5.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.33$, $\langle L^2 \rangle = 0.17$	Xtriage
Estimated twinning fraction	0.094 for -h-l,k,h 0.094 for l,k,-h-l 0.099 for l,-k,h 0.097 for h,-k,-h-l 0.118 for -h-l,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	470574	wwPDB-VP
Average B, all atoms (Å ²)	204.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	T1	0.36	0/1131	0.82	1/1515 (0.1%)
1	T2	0.36	0/1131	0.82	1/1515 (0.1%)
1	T3	0.36	0/1131	0.82	1/1515 (0.1%)
1	T4	0.36	0/1131	0.82	1/1515 (0.1%)
1	T5	0.36	0/1131	0.82	1/1515 (0.1%)
1	T6	0.35	0/1131	0.82	1/1515 (0.1%)
2	U1	0.40	0/831	0.88	0/1115
2	U2	0.39	0/831	0.88	0/1115
2	U3	0.39	0/831	0.88	0/1115
2	U4	0.39	0/831	0.88	0/1115
2	U5	0.39	0/831	0.88	0/1115
2	U6	0.39	0/831	0.89	0/1115
3	V1	0.36	0/643	0.72	1/860 (0.1%)
3	V2	0.35	0/643	0.72	1/860 (0.1%)
3	V3	0.35	0/643	0.73	1/860 (0.1%)
3	V4	0.36	0/643	0.73	1/860 (0.1%)
3	V5	0.35	0/643	0.72	1/860 (0.1%)
3	V6	0.36	0/643	0.72	1/860 (0.1%)
4	X1	0.40	0/1116	0.79	0/1490
4	X2	0.40	0/1116	0.79	0/1490
4	X3	0.40	0/1116	0.79	0/1490
4	X4	0.40	0/1116	0.80	0/1490
4	X5	0.40	0/1116	0.79	0/1490
4	X6	0.40	0/1116	0.79	0/1490
5	a1	0.60	2/863 (0.2%)	0.97	5/1159 (0.4%)
5	a2	0.60	1/863 (0.1%)	0.97	5/1159 (0.4%)
5	a3	0.60	2/863 (0.2%)	0.97	5/1159 (0.4%)
5	a4	0.60	0/863	0.98	5/1159 (0.4%)
5	a5	0.61	2/863 (0.2%)	0.98	5/1159 (0.4%)
5	a6	0.60	1/863 (0.1%)	0.97	5/1159 (0.4%)
6	c1	0.36	0/508	0.88	3/680 (0.4%)
6	c2	0.37	0/508	0.88	3/680 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
6	c3	0.37	0/508	0.88	3/680 (0.4%)
6	c4	0.36	0/508	0.88	3/680 (0.4%)
6	c5	0.35	0/508	0.87	3/680 (0.4%)
6	c6	0.37	0/508	0.88	3/680 (0.4%)
7	d1	0.31	0/455	0.76	0/603
7	d2	0.31	0/455	0.77	0/603
7	d3	0.31	0/455	0.76	0/603
7	d4	0.30	0/455	0.76	0/603
7	d5	0.31	0/455	0.76	0/603
7	d6	0.31	0/455	0.76	0/603
8	f1	0.38	0/595	0.80	2/785 (0.3%)
8	f2	0.38	0/595	0.80	2/785 (0.3%)
8	f3	0.38	0/595	0.80	2/785 (0.3%)
8	f4	0.38	0/595	0.80	2/785 (0.3%)
8	f5	0.38	0/595	0.80	2/785 (0.3%)
8	f6	0.39	0/595	0.80	2/785 (0.3%)
9	g1	0.33	0/2493	0.81	2/3394 (0.1%)
9	g2	0.33	0/2493	0.81	2/3394 (0.1%)
9	g3	0.33	0/2493	0.81	2/3394 (0.1%)
9	g4	0.33	0/2493	0.81	2/3394 (0.1%)
9	g5	0.33	0/2493	0.81	2/3394 (0.1%)
9	g6	0.33	0/2493	0.82	2/3394 (0.1%)
10	C1	0.38	0/1762	0.84	7/2381 (0.3%)
10	C2	0.38	0/1762	0.84	7/2381 (0.3%)
10	C3	0.37	0/1762	0.84	7/2381 (0.3%)
10	C4	0.37	0/1762	0.84	7/2381 (0.3%)
10	C5	0.38	0/1762	0.84	7/2381 (0.3%)
10	C6	0.37	0/1762	0.84	7/2381 (0.3%)
11	G1	0.34	0/1946	0.89	9/2590 (0.3%)
11	G2	0.34	0/1946	0.89	9/2590 (0.3%)
11	G3	0.35	0/1946	0.89	9/2590 (0.3%)
11	G4	0.34	0/1946	0.90	9/2590 (0.3%)
11	G5	0.34	0/1946	0.89	8/2590 (0.3%)
11	G6	0.34	0/1946	0.89	9/2590 (0.3%)
12	J1	0.36	0/1550	0.77	0/2069
12	J2	0.36	0/1550	0.77	0/2069
12	J3	0.36	0/1550	0.77	0/2069
12	J4	0.36	0/1550	0.78	0/2069
12	J5	0.36	0/1550	0.77	0/2069
12	J6	0.36	0/1550	0.77	0/2069
13	M1	0.50	0/963	0.79	0/1291
13	M2	0.51	0/963	0.79	0/1291
13	M3	0.50	0/963	0.79	0/1291

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
13	M4	0.50	0/963	0.79	0/1291
13	M5	0.51	0/963	0.79	0/1291
13	M6	0.50	0/963	0.79	0/1291
14	N1	0.40	0/1232	0.80	1/1656 (0.1%)
14	N2	0.40	0/1232	0.80	1/1656 (0.1%)
14	N3	0.39	0/1232	0.77	0/1656
14	N4	0.40	0/1232	0.80	0/1656
14	N5	0.39	0/1232	0.77	0/1656
14	N6	0.39	0/1232	0.79	1/1656 (0.1%)
15	O1	0.42	0/1062	0.95	7/1425 (0.5%)
15	O2	0.42	0/1062	0.96	7/1425 (0.5%)
15	O3	0.42	0/1062	0.95	7/1425 (0.5%)
15	O4	0.42	0/1062	0.95	7/1425 (0.5%)
15	O5	0.42	0/1062	0.95	5/1425 (0.4%)
15	O6	0.42	0/1062	0.95	7/1425 (0.5%)
16	W1	0.40	0/1051	0.86	1/1406 (0.1%)
16	W2	0.40	0/1051	0.86	1/1406 (0.1%)
16	W3	0.39	0/1051	0.85	1/1406 (0.1%)
16	W4	0.40	0/1051	0.86	1/1406 (0.1%)
16	W5	0.40	0/1051	0.86	1/1406 (0.1%)
16	W6	0.40	0/1051	0.86	1/1406 (0.1%)
17	Y1	0.36	0/1083	0.76	0/1438
17	Y2	0.36	0/1083	0.76	0/1438
17	Y3	0.36	0/1083	0.76	0/1438
17	Y4	0.36	0/1083	0.76	0/1438
17	Y5	0.36	0/1083	0.76	0/1438
17	Y6	0.36	0/1083	0.76	0/1438
18	Z1	0.36	0/604	0.86	1/810 (0.1%)
18	Z2	0.37	0/604	0.86	1/810 (0.1%)
18	Z3	0.36	0/604	0.85	1/810 (0.1%)
18	Z4	0.35	0/604	0.85	1/810 (0.1%)
18	Z5	0.36	0/604	0.86	1/810 (0.1%)
18	Z6	0.37	0/604	0.86	1/810 (0.1%)
19	b1	0.35	0/665	0.92	1/891 (0.1%)
19	b2	0.36	0/665	0.88	2/891 (0.2%)
19	b3	0.36	0/665	0.88	0/891
19	b4	0.34	0/665	0.93	3/891 (0.3%)
19	b5	0.35	0/665	0.89	2/891 (0.2%)
19	b6	0.36	0/665	0.89	2/891 (0.2%)
20	e1	0.33	0/465	0.79	1/612 (0.2%)
20	e2	0.38	0/465	0.70	0/612
20	e3	0.39	0/465	0.73	0/612
20	e4	0.37	0/465	0.71	0/612

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
20	e5	0.31	0/465	0.63	0/612
20	e6	0.40	0/465	0.72	0/612
21	i1	0.20	0/41243	0.32	6/64257 (0.0%)
21	i2	0.20	0/41242	0.30	1/64253 (0.0%)
21	i3	0.20	0/41242	0.30	1/64253 (0.0%)
21	i4	0.22	1/41243 (0.0%)	0.31	4/64257 (0.0%)
21	i5	0.27	1/41243 (0.0%)	0.31	6/64257 (0.0%)
21	i6	0.25	1/41243 (0.0%)	0.31	4/64257 (0.0%)
22	A1	0.35	0/1784	0.80	3/2424 (0.1%)
22	A2	0.35	0/1784	0.80	3/2424 (0.1%)
22	A3	0.36	0/1784	0.80	3/2424 (0.1%)
22	A4	0.36	0/1784	0.80	3/2424 (0.1%)
22	A5	0.36	0/1784	0.80	3/2424 (0.1%)
22	A6	0.36	0/1784	0.80	3/2424 (0.1%)
23	B1	0.36	0/1765	0.78	0/2362
23	B2	0.37	0/1765	0.79	0/2362
23	B3	0.37	0/1765	0.79	0/2362
23	B4	0.37	0/1765	0.79	0/2362
23	B5	0.37	0/1765	0.79	0/2362
23	B6	0.37	0/1765	0.78	0/2362
24	D1	0.38	0/1793	0.79	0/2414
24	D2	0.38	0/1793	0.79	0/2414
24	D3	0.38	0/1793	0.79	0/2414
24	D4	0.38	0/1793	0.79	0/2414
24	D5	0.38	0/1793	0.79	0/2414
24	D6	0.38	0/1793	0.79	0/2414
25	E1	0.35	0/2118	0.83	1/2849 (0.0%)
25	E2	0.35	0/2118	0.84	1/2849 (0.0%)
25	E3	0.35	0/2118	0.84	1/2849 (0.0%)
25	E4	0.35	0/2118	0.84	1/2849 (0.0%)
25	E5	0.35	0/2118	0.84	1/2849 (0.0%)
25	E6	0.35	0/2118	0.84	1/2849 (0.0%)
26	F1	0.40	0/1531	0.83	2/2059 (0.1%)
26	F2	0.40	0/1531	0.83	2/2059 (0.1%)
26	F3	0.40	0/1531	0.83	2/2059 (0.1%)
26	F4	0.40	0/1531	0.83	2/2059 (0.1%)
26	F5	0.40	0/1531	0.83	2/2059 (0.1%)
26	F6	0.39	0/1531	0.82	2/2059 (0.1%)
27	H1	0.35	0/1544	0.81	1/2068 (0.0%)
27	H2	0.36	0/1544	0.80	0/2068
27	H3	0.36	0/1544	0.81	1/2068 (0.0%)
27	H4	0.35	0/1544	0.81	1/2068 (0.0%)
27	H5	0.36	0/1544	0.81	0/2068

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
27	H6	0.36	0/1544	0.80	1/2068 (0.0%)
28	I1	0.35	0/1715	0.76	0/2287
28	I2	0.35	0/1715	0.76	0/2287
28	I3	0.34	0/1715	0.76	0/2287
28	I4	0.36	0/1715	0.77	0/2287
28	I5	0.36	0/1715	0.76	0/2287
28	I6	0.35	0/1715	0.76	0/2287
29	K1	0.36	0/851	0.91	2/1147 (0.2%)
29	K2	0.38	0/851	0.90	2/1147 (0.2%)
29	K3	0.37	0/851	0.91	2/1147 (0.2%)
29	K4	0.37	0/851	0.91	2/1147 (0.2%)
29	K5	0.37	0/851	0.91	0/1147
29	K6	0.37	0/851	0.91	0/1147
30	L1	0.36	0/1268	0.76	0/1696
30	L2	0.37	0/1268	0.77	0/1696
30	L3	0.36	0/1268	0.77	0/1696
30	L4	0.38	0/1268	0.77	0/1696
30	L5	0.37	0/1268	0.77	0/1696
30	L6	0.37	0/1268	0.77	0/1696
31	P1	0.38	0/1053	0.69	0/1406
31	P2	0.38	0/1053	0.69	0/1406
31	P3	0.38	0/1053	0.71	1/1406 (0.1%)
31	P4	0.38	0/1053	0.69	0/1406
31	P5	0.37	0/1053	0.69	0/1406
31	P6	0.38	0/1053	0.69	0/1406
32	Q1	0.39	0/1177	0.81	2/1575 (0.1%)
32	Q2	0.39	0/1177	0.82	2/1575 (0.1%)
32	Q3	0.40	0/1177	0.82	2/1575 (0.1%)
32	Q4	0.40	0/1177	0.82	2/1575 (0.1%)
32	Q5	0.39	0/1177	0.82	2/1575 (0.1%)
32	Q6	0.39	0/1177	0.82	2/1575 (0.1%)
33	R1	0.39	0/1086	0.90	3/1457 (0.2%)
33	R2	0.39	0/1086	0.89	3/1457 (0.2%)
33	R3	0.39	0/1086	0.89	3/1457 (0.2%)
33	R4	0.39	0/1086	0.89	3/1457 (0.2%)
33	R5	0.39	0/1086	0.89	3/1457 (0.2%)
33	R6	0.39	0/1086	0.89	3/1457 (0.2%)
34	S1	0.48	0/1202	0.86	2/1610 (0.1%)
34	S2	0.48	0/1202	0.86	2/1610 (0.1%)
34	S3	0.48	0/1202	0.86	2/1610 (0.1%)
34	S4	0.48	0/1202	0.86	2/1610 (0.1%)
34	S5	0.48	0/1202	0.86	2/1610 (0.1%)
34	S6	0.48	0/1202	0.86	2/1610 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	j1	0.25	0/240	0.57	0/305
35	j2	0.25	0/240	0.58	0/305
35	j3	0.25	0/240	0.58	0/305
35	j4	0.25	0/240	0.58	0/305
35	j5	0.25	0/240	0.57	0/305
35	j6	0.26	0/240	0.57	0/305
36	k1	0.72	0/1455	0.79	2/1968 (0.1%)
36	k2	0.91	2/1455 (0.1%)	1.39	7/1968 (0.4%)
36	k3	0.74	0/1455	1.53	3/1968 (0.2%)
36	k4	0.73	0/1455	0.76	0/1968
36	k5	0.77	1/1455 (0.1%)	1.12	4/1968 (0.2%)
36	k6	0.73	0/1455	0.75	0/1968
37	l1	0.42	0/638	1.01	4/859 (0.5%)
37	l2	0.41	0/638	1.00	4/859 (0.5%)
37	l3	0.41	0/638	1.01	4/859 (0.5%)
37	l4	0.42	0/638	1.00	4/859 (0.5%)
37	l5	0.42	0/638	1.01	4/859 (0.5%)
37	l6	0.42	0/638	1.01	4/859 (0.5%)
All	All	0.33	14/500884 (0.0%)	0.61	398/725470 (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
33	R1	0	1
33	R2	0	1
33	R3	0	1
33	R4	0	1
33	R5	0	1
36	k2	0	1
36	k3	0	2
36	k5	0	1
All	All	0	9

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	i5	1689	C	O3'-P	35.83	2.14	1.61
21	i6	1689	C	O3'-P	30.72	2.07	1.61
21	i4	1689	C	O3'-P	20.05	1.91	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	k2	92	LEU	C-N	17.95	1.55	1.33
36	k2	93	PRO	C-N	9.78	1.48	1.33
36	k5	167	ILE	C-N	8.47	1.45	1.33
5	a1	97	PRO	C-N	5.19	1.39	1.33
5	a6	96	THR	C-N	5.17	1.39	1.33
5	a3	96	THR	C-N	5.17	1.39	1.33
5	a5	97	PRO	C-N	5.08	1.39	1.33
5	a5	96	THR	C-N	5.07	1.39	1.33
5	a1	96	THR	C-N	5.03	1.39	1.33
5	a2	97	PRO	C-N	5.02	1.39	1.33
5	a3	97	PRO	C-N	5.00	1.39	1.33

All (398) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	k3	180	TYR	O-C-N	-45.37	62.25	122.59
36	k5	167	ILE	O-C-N	-33.89	80.21	122.57
36	k2	92	LEU	CA-C-N	-27.58	91.06	120.85
36	k2	92	LEU	C-N-CA	-27.58	91.06	120.85
36	k3	180	TYR	CA-C-N	26.71	169.78	121.70
36	k3	180	TYR	C-N-CA	26.71	169.78	121.70
21	i1	1689	C	P-O3'-C3'	-24.67	83.20	120.20
36	k2	93	PRO	O-C-N	-21.51	99.36	123.23
21	i4	1689	C	P-O3'-C3'	-20.34	89.69	120.20
36	k2	92	LEU	O-C-N	20.06	144.39	121.32
21	i5	1689	C	P-O3'-C3'	-17.17	94.45	120.20
21	i6	1689	C	P-O3'-C3'	-15.16	97.46	120.20
37	l6	167	GLN	O-C-N	15.15	141.65	123.02
37	l1	167	GLN	O-C-N	15.00	141.47	123.02
37	l3	167	GLN	O-C-N	14.98	141.45	123.02
37	l2	167	GLN	O-C-N	14.98	141.44	123.02
37	l5	167	GLN	O-C-N	14.97	141.44	123.02
37	l4	167	GLN	O-C-N	14.93	141.38	123.02
36	k5	180	TYR	O-C-N	12.60	138.01	123.27
21	i1	1689	C	OP1-P-O3'	-12.32	71.03	108.00
21	i1	1689	C	OP2-P-O3'	11.35	142.05	108.00
20	e1	46	VAL	C-N-CD	-11.12	79.40	125.00
36	k2	93	PRO	CA-C-N	10.38	139.54	122.73
36	k2	93	PRO	C-N-CA	10.38	139.54	122.73
37	l6	167	GLN	CA-C-N	-10.18	104.64	122.66
37	l6	167	GLN	C-N-CA	-10.18	104.64	122.66
37	l5	167	GLN	CA-C-N	-10.12	104.75	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	l5	167	GLN	C-N-CA	-10.12	104.75	122.66
37	l3	167	GLN	CA-C-N	-10.08	104.82	122.66
37	l3	167	GLN	C-N-CA	-10.08	104.82	122.66
37	l1	167	GLN	CA-C-N	-10.07	104.83	122.66
37	l1	167	GLN	C-N-CA	-10.07	104.83	122.66
37	l2	167	GLN	CA-C-N	-10.06	104.85	122.66
37	l2	167	GLN	C-N-CA	-10.06	104.85	122.66
37	l4	167	GLN	CA-C-N	-10.04	104.88	122.66
37	l4	167	GLN	C-N-CA	-10.04	104.88	122.66
21	i4	1689	C	OP2-P-O3'	9.95	137.85	108.00
21	i5	1689	C	OP2-P-O3'	9.94	137.81	108.00
21	i4	1689	C	OP1-P-O3'	-9.92	78.25	108.00
11	G3	121	ILE	CA-C-N	9.55	131.78	119.84
11	G3	121	ILE	C-N-CA	9.55	131.78	119.84
11	G5	121	ILE	CA-C-N	9.54	131.77	119.84
11	G5	121	ILE	C-N-CA	9.54	131.77	119.84
11	G4	121	ILE	CA-C-N	9.53	131.75	119.84
11	G4	121	ILE	C-N-CA	9.53	131.75	119.84
11	G6	121	ILE	CA-C-N	9.50	131.72	119.84
11	G6	121	ILE	C-N-CA	9.50	131.72	119.84
11	G2	121	ILE	CA-C-N	9.49	131.70	119.84
11	G2	121	ILE	C-N-CA	9.49	131.70	119.84
11	G1	121	ILE	CA-C-N	9.46	131.66	119.84
11	G1	121	ILE	C-N-CA	9.46	131.66	119.84
21	i6	1689	C	OP2-P-O3'	9.12	135.36	108.00
19	b4	37	CYS	C-N-CD	-9.02	88.03	125.00
26	F5	107	ASN	CA-C-N	8.81	128.97	119.28
26	F5	107	ASN	C-N-CA	8.81	128.97	119.28
21	i6	1689	C	OP1-P-O3'	-8.79	81.64	108.00
26	F4	107	ASN	CA-C-N	8.78	128.94	119.28
26	F4	107	ASN	C-N-CA	8.78	128.94	119.28
26	F6	107	ASN	CA-C-N	8.77	128.93	119.28
26	F6	107	ASN	C-N-CA	8.77	128.93	119.28
26	F1	107	ASN	CA-C-N	8.77	128.93	119.28
26	F1	107	ASN	C-N-CA	8.77	128.93	119.28
21	i5	1689	C	OP1-P-O3'	-8.75	81.76	108.00
26	F3	107	ASN	CA-C-N	8.74	128.89	119.28
26	F3	107	ASN	C-N-CA	8.74	128.89	119.28
26	F2	107	ASN	CA-C-N	8.71	128.86	119.28
26	F2	107	ASN	C-N-CA	8.71	128.86	119.28
21	i1	732	U	C2'-C3'-O3'	8.15	121.73	109.50
21	i6	732	U	C2'-C3'-O3'	8.14	121.71	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	i3	732	U	C2'-C3'-O3'	8.12	121.67	109.50
19	b1	37	CYS	C-N-CD	-7.98	92.30	125.00
36	k1	92	LEU	C-N-CD	-7.54	94.08	125.00
37	l3	182	TRP	C-N-CD	7.51	137.11	120.60
37	l2	182	TRP	C-N-CD	7.50	137.10	120.60
5	a6	102	ARG	C-N-CD	7.48	137.06	120.60
37	l1	182	TRP	C-N-CD	7.47	137.04	120.60
5	a3	102	ARG	C-N-CD	7.46	137.02	120.60
37	l6	182	TRP	C-N-CD	7.46	137.01	120.60
5	a4	102	ARG	C-N-CD	7.46	137.01	120.60
37	l4	182	TRP	C-N-CD	7.44	136.97	120.60
5	a5	102	ARG	C-N-CD	7.44	136.96	120.60
37	l5	182	TRP	C-N-CD	7.43	136.96	120.60
5	a1	102	ARG	C-N-CD	7.43	136.95	120.60
5	a2	102	ARG	C-N-CD	7.38	136.84	120.60
11	G5	61	PHE	CA-C-N	7.35	127.35	119.78
11	G5	61	PHE	C-N-CA	7.35	127.35	119.78
11	G2	61	PHE	CA-C-N	7.28	127.28	119.78
11	G2	61	PHE	C-N-CA	7.28	127.28	119.78
15	O1	135	ILE	N-CA-C	7.27	114.88	108.63
15	O2	135	ILE	N-CA-C	7.25	114.87	108.63
15	O3	135	ILE	N-CA-C	7.21	114.83	108.63
11	G4	61	PHE	CA-C-N	7.19	127.19	119.78
11	G4	61	PHE	C-N-CA	7.19	127.19	119.78
11	G6	61	PHE	CA-C-N	7.17	127.16	119.78
11	G6	61	PHE	C-N-CA	7.17	127.16	119.78
11	G3	61	PHE	CA-C-N	7.13	127.12	119.78
11	G3	61	PHE	C-N-CA	7.13	127.12	119.78
10	C4	182	CYS	CB-CA-C	-7.13	108.34	116.54
10	C1	182	CYS	CB-CA-C	-7.09	108.39	116.54
15	O6	135	ILE	N-CA-C	7.07	114.71	108.63
15	O5	135	ILE	N-CA-C	7.07	114.71	108.63
15	O4	135	ILE	N-CA-C	7.07	114.71	108.63
10	C2	182	CYS	CB-CA-C	-7.05	108.43	116.54
11	G1	61	PHE	CA-C-N	7.04	127.03	119.78
11	G1	61	PHE	C-N-CA	7.04	127.03	119.78
15	O2	135	ILE	CA-C-N	7.03	127.03	119.78
15	O2	135	ILE	C-N-CA	7.03	127.03	119.78
10	C6	182	CYS	CB-CA-C	-7.01	108.48	116.54
32	Q3	123	ASP	CA-C-N	7.00	126.98	119.28
32	Q3	123	ASP	C-N-CA	7.00	126.98	119.28
15	O6	135	ILE	CA-C-N	6.99	126.98	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O6	135	ILE	C-N-CA	6.99	126.98	119.78
10	C5	182	CYS	CB-CA-C	-6.97	108.52	116.54
15	O4	135	ILE	CA-C-N	6.95	126.94	119.78
15	O4	135	ILE	C-N-CA	6.95	126.94	119.78
21	i5	185	G	C2'-C3'-O3'	6.94	124.11	113.70
15	O1	135	ILE	CA-C-N	6.94	126.93	119.78
15	O1	135	ILE	C-N-CA	6.94	126.93	119.78
21	i1	185	G	C2'-C3'-O3'	6.93	124.10	113.70
10	C3	182	CYS	CB-CA-C	-6.93	108.57	116.54
32	Q1	123	ASP	CA-C-N	6.90	126.87	119.28
32	Q1	123	ASP	C-N-CA	6.90	126.87	119.28
32	Q4	123	ASP	CA-C-N	6.90	126.87	119.28
32	Q4	123	ASP	C-N-CA	6.90	126.87	119.28
15	O5	135	ILE	CA-C-N	6.90	126.88	119.78
15	O5	135	ILE	C-N-CA	6.90	126.88	119.78
32	Q5	123	ASP	CA-C-N	6.89	126.86	119.28
32	Q5	123	ASP	C-N-CA	6.89	126.86	119.28
32	Q2	123	ASP	CA-C-N	6.89	126.86	119.28
32	Q2	123	ASP	C-N-CA	6.89	126.86	119.28
15	O6	18	GLY	CA-C-N	6.81	126.79	119.78
15	O6	18	GLY	C-N-CA	6.81	126.79	119.78
15	O3	135	ILE	CA-C-N	6.80	126.79	119.78
15	O3	135	ILE	C-N-CA	6.80	126.79	119.78
15	O1	18	GLY	CA-C-N	6.80	126.72	119.85
15	O1	18	GLY	C-N-CA	6.80	126.72	119.85
32	Q6	123	ASP	CA-C-N	6.76	126.72	119.28
32	Q6	123	ASP	C-N-CA	6.76	126.72	119.28
15	O5	18	GLY	CA-C-N	6.67	126.59	119.85
15	O5	18	GLY	C-N-CA	6.67	126.59	119.85
15	O4	18	GLY	CA-C-N	6.64	126.62	119.78
15	O4	18	GLY	C-N-CA	6.64	126.62	119.78
15	O2	18	GLY	CA-C-N	6.63	126.55	119.85
15	O2	18	GLY	C-N-CA	6.63	126.55	119.85
15	O3	18	GLY	CA-C-N	6.62	126.60	119.78
15	O3	18	GLY	C-N-CA	6.62	126.60	119.78
21	i1	185	G	C3'-C2'-O2'	6.46	120.39	110.70
21	i5	185	G	C3'-C2'-O2'	6.44	120.36	110.70
21	i5	732	U	C4'-C3'-O3'	6.36	118.93	109.40
21	i4	732	U	C4'-C3'-O3'	6.33	118.90	109.40
6	c4	32	VAL	N-CA-C	6.22	117.77	109.37
10	C1	209	VAL	CA-C-N	-6.21	113.33	120.04
10	C1	209	VAL	C-N-CA	-6.21	113.33	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	c5	32	VAL	N-CA-C	6.20	117.74	109.37
22	A6	70	ASN	CA-C-N	6.19	126.09	119.28
22	A6	70	ASN	C-N-CA	6.19	126.09	119.28
22	A5	70	ASN	CA-C-N	6.19	126.09	119.28
22	A5	70	ASN	C-N-CA	6.19	126.09	119.28
10	C2	209	VAL	CA-C-N	-6.18	113.36	120.04
10	C2	209	VAL	C-N-CA	-6.18	113.36	120.04
5	a1	97	PRO	CA-C-N	-6.14	114.06	120.38
5	a1	97	PRO	C-N-CA	-6.14	114.06	120.38
10	C6	209	VAL	CA-C-N	-6.14	113.41	120.04
10	C6	209	VAL	C-N-CA	-6.14	113.41	120.04
5	a5	97	PRO	CA-C-N	-6.13	114.07	120.38
5	a5	97	PRO	C-N-CA	-6.13	114.07	120.38
6	c3	32	VAL	N-CA-C	6.13	117.64	109.37
6	c2	32	VAL	N-CA-C	6.12	117.64	109.37
10	C5	209	VAL	CA-C-N	-6.12	113.43	120.04
10	C5	209	VAL	C-N-CA	-6.12	113.43	120.04
6	c6	32	VAL	N-CA-C	6.11	117.62	109.37
22	A2	70	ASN	CA-C-N	6.11	126.00	119.28
22	A2	70	ASN	C-N-CA	6.11	126.00	119.28
5	a6	97	PRO	CA-C-N	-6.11	114.09	120.38
5	a6	97	PRO	C-N-CA	-6.11	114.09	120.38
10	C3	209	VAL	CA-C-N	-6.10	113.45	120.04
10	C3	209	VAL	C-N-CA	-6.10	113.45	120.04
22	A4	70	ASN	CA-C-N	6.10	125.99	119.28
22	A4	70	ASN	C-N-CA	6.10	125.99	119.28
22	A3	70	ASN	CA-C-N	6.09	125.98	119.28
22	A3	70	ASN	C-N-CA	6.09	125.98	119.28
6	c1	32	VAL	N-CA-C	6.07	117.56	109.37
22	A1	70	ASN	CA-C-N	6.05	125.94	119.28
22	A1	70	ASN	C-N-CA	6.05	125.94	119.28
10	C4	209	VAL	CA-C-N	-6.05	113.51	120.04
10	C4	209	VAL	C-N-CA	-6.05	113.51	120.04
11	G4	7	PHE	CA-C-N	6.03	125.92	119.28
11	G4	7	PHE	C-N-CA	6.03	125.92	119.28
5	a3	97	PRO	CA-C-N	-6.01	114.19	120.38
5	a3	97	PRO	C-N-CA	-6.01	114.19	120.38
5	a4	97	PRO	CA-C-N	-6.00	114.20	120.38
5	a4	97	PRO	C-N-CA	-6.00	114.20	120.38
5	a4	96	THR	CA-C-N	-5.99	114.21	120.38
5	a4	96	THR	C-N-CA	-5.99	114.21	120.38
5	a2	97	PRO	CA-C-N	-5.98	114.22	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	a2	97	PRO	C-N-CA	-5.98	114.22	120.38
5	a5	96	THR	CA-C-N	-5.97	114.23	120.38
5	a5	96	THR	C-N-CA	-5.97	114.23	120.38
11	G3	7	PHE	CA-C-N	5.92	125.79	119.28
11	G3	7	PHE	C-N-CA	5.92	125.79	119.28
11	G6	7	PHE	CA-C-N	5.90	125.77	119.28
11	G6	7	PHE	C-N-CA	5.90	125.77	119.28
5	a6	96	THR	CA-C-N	-5.90	114.31	120.38
5	a6	96	THR	C-N-CA	-5.90	114.31	120.38
11	G2	7	PHE	CA-C-N	5.89	125.76	119.28
11	G2	7	PHE	C-N-CA	5.89	125.76	119.28
33	R2	84	TYR	CA-C-N	5.89	123.95	120.24
33	R2	84	TYR	C-N-CA	5.89	123.95	120.24
5	a2	96	THR	CA-C-N	-5.88	114.32	120.38
5	a2	96	THR	C-N-CA	-5.88	114.32	120.38
11	G5	7	PHE	CA-C-N	5.88	125.75	119.28
11	G5	7	PHE	C-N-CA	5.88	125.75	119.28
33	R1	129	LYS	N-CA-C	-5.88	103.58	111.87
33	R2	129	LYS	N-CA-C	-5.87	103.59	111.87
5	a1	96	THR	CA-C-N	-5.86	114.34	120.38
5	a1	96	THR	C-N-CA	-5.86	114.34	120.38
11	G1	7	PHE	CA-C-N	5.84	125.71	119.28
11	G1	7	PHE	C-N-CA	5.84	125.71	119.28
33	R4	129	LYS	N-CA-C	-5.84	103.64	111.87
5	a3	96	THR	CA-C-N	-5.83	114.38	120.38
5	a3	96	THR	C-N-CA	-5.83	114.38	120.38
3	V5	6	GLY	N-CA-C	-5.82	107.70	115.32
11	G6	134	GLY	CA-C-N	5.82	125.77	119.78
11	G6	134	GLY	C-N-CA	5.82	125.77	119.78
11	G4	134	GLY	CA-C-N	5.80	125.75	119.78
11	G4	134	GLY	C-N-CA	5.80	125.75	119.78
33	R5	129	LYS	N-CA-C	-5.80	103.70	111.87
33	R6	129	LYS	N-CA-C	-5.79	103.71	111.87
11	G2	134	GLY	CA-C-N	5.79	125.74	119.78
11	G2	134	GLY	C-N-CA	5.79	125.74	119.78
3	V3	6	GLY	N-CA-C	-5.77	107.75	115.32
33	R3	84	TYR	CA-C-N	5.77	123.88	120.24
33	R3	84	TYR	C-N-CA	5.77	123.88	120.24
11	G3	134	GLY	CA-C-N	5.77	125.72	119.78
11	G3	134	GLY	C-N-CA	5.77	125.72	119.78
33	R3	129	LYS	N-CA-C	-5.77	103.73	111.87
3	V6	6	GLY	N-CA-C	-5.76	107.77	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	V4	6	GLY	N-CA-C	-5.75	107.78	115.32
3	V1	6	GLY	N-CA-C	-5.74	107.81	115.32
36	k5	180	TYR	CA-C-N	-5.72	111.40	121.70
36	k5	180	TYR	C-N-CA	-5.72	111.40	121.70
10	C4	196	ILE	CA-C-N	5.71	125.67	119.78
10	C4	196	ILE	C-N-CA	5.71	125.67	119.78
33	R6	84	TYR	CA-C-N	5.70	123.83	120.24
33	R6	84	TYR	C-N-CA	5.70	123.83	120.24
3	V2	6	GLY	N-CA-C	-5.70	107.86	115.32
6	c5	48	GLY	CA-C-N	5.69	125.64	119.78
6	c5	48	GLY	C-N-CA	5.69	125.64	119.78
8	f6	121	CYS	CA-C-N	5.68	125.30	119.56
8	f6	121	CYS	C-N-CA	5.68	125.30	119.56
6	c1	48	GLY	CA-C-N	5.68	125.63	119.78
6	c1	48	GLY	C-N-CA	5.68	125.63	119.78
8	f4	121	CYS	CA-C-N	5.66	125.28	119.56
8	f4	121	CYS	C-N-CA	5.66	125.28	119.56
8	f3	121	CYS	CA-C-N	5.64	125.26	119.56
8	f3	121	CYS	C-N-CA	5.64	125.26	119.56
33	R1	84	TYR	CA-C-N	5.64	123.79	120.24
33	R1	84	TYR	C-N-CA	5.64	123.79	120.24
10	C5	196	ILE	CA-C-N	5.63	125.58	119.78
10	C5	196	ILE	C-N-CA	5.63	125.58	119.78
6	c4	48	GLY	CA-C-N	5.62	125.57	119.78
6	c4	48	GLY	C-N-CA	5.62	125.57	119.78
10	C6	196	ILE	CA-C-N	5.62	125.56	119.78
10	C6	196	ILE	C-N-CA	5.62	125.56	119.78
8	f1	121	CYS	CA-C-N	5.59	125.21	119.56
8	f1	121	CYS	C-N-CA	5.59	125.21	119.56
6	c6	48	GLY	CA-C-N	5.57	125.52	119.78
6	c6	48	GLY	C-N-CA	5.57	125.52	119.78
11	G1	134	GLY	CA-C-N	5.57	125.51	119.78
11	G1	134	GLY	C-N-CA	5.57	125.51	119.78
6	c2	48	GLY	CA-C-N	5.56	125.50	119.78
6	c2	48	GLY	C-N-CA	5.56	125.50	119.78
21	i2	688	U	C4'-C3'-O3'	5.55	117.73	109.40
11	G5	134	GLY	CA-C-N	5.54	125.48	119.78
11	G5	134	GLY	C-N-CA	5.54	125.48	119.78
10	C3	196	ILE	CA-C-N	5.53	125.47	119.78
10	C3	196	ILE	C-N-CA	5.53	125.47	119.78
33	R4	84	TYR	CA-C-N	5.52	123.72	120.24
33	R4	84	TYR	C-N-CA	5.52	123.72	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	c3	48	GLY	CA-C-N	5.51	125.45	119.78
6	c3	48	GLY	C-N-CA	5.51	125.45	119.78
33	R5	84	TYR	CA-C-N	5.50	123.70	120.24
33	R5	84	TYR	C-N-CA	5.50	123.70	120.24
9	g5	103	GLY	N-CA-C	-5.47	108.09	115.36
8	f5	121	CYS	CA-C-N	5.45	125.06	119.56
8	f5	121	CYS	C-N-CA	5.45	125.06	119.56
10	C4	198	ALA	CA-C-N	5.45	125.39	119.78
10	C4	198	ALA	C-N-CA	5.45	125.39	119.78
10	C1	196	ILE	CA-C-N	5.44	125.38	119.78
10	C1	196	ILE	C-N-CA	5.44	125.38	119.78
9	g1	103	GLY	N-CA-C	-5.43	108.14	115.36
10	C3	198	ALA	CA-C-N	5.43	125.37	119.78
10	C3	198	ALA	C-N-CA	5.43	125.37	119.78
9	g6	103	GLY	N-CA-C	-5.42	108.16	115.36
10	C6	198	ALA	CA-C-N	5.40	125.34	119.78
10	C6	198	ALA	C-N-CA	5.40	125.34	119.78
22	A3	196	GLU	N-CA-C	5.40	117.92	111.71
9	g3	103	GLY	N-CA-C	-5.40	108.18	115.36
9	g2	103	GLY	N-CA-C	-5.39	108.19	115.36
10	C2	196	ILE	CA-C-N	5.39	125.33	119.78
10	C2	196	ILE	C-N-CA	5.39	125.33	119.78
25	E2	84	ALA	CB-CA-C	-5.39	110.34	116.54
8	f2	121	CYS	CA-C-N	5.38	124.99	119.56
8	f2	121	CYS	C-N-CA	5.38	124.99	119.56
22	A5	196	GLU	N-CA-C	5.38	117.89	111.71
25	E4	84	ALA	CB-CA-C	-5.37	110.36	116.54
10	C1	198	ALA	CA-C-N	5.37	125.31	119.78
10	C1	198	ALA	C-N-CA	5.37	125.31	119.78
22	A1	196	GLU	N-CA-C	5.36	117.87	111.71
9	g4	103	GLY	N-CA-C	-5.36	108.23	115.36
25	E1	84	ALA	CB-CA-C	-5.35	110.38	116.54
36	k1	178	LYS	CB-CA-C	-5.35	110.39	116.54
10	C2	198	ALA	CA-C-N	5.34	125.28	119.78
10	C2	198	ALA	C-N-CA	5.34	125.28	119.78
36	k2	178	LYS	CB-CA-C	-5.33	110.41	116.54
27	H1	106	ARG	N-CA-C	-5.33	106.65	112.72
10	C5	198	ALA	CA-C-N	5.33	125.27	119.78
10	C5	198	ALA	C-N-CA	5.33	125.27	119.78
22	A2	196	GLU	N-CA-C	5.33	117.83	111.71
16	W6	61	ILE	N-CA-C	5.32	114.45	106.42
31	P3	15	PHE	CB-CA-C	-5.31	110.43	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	S6	79	ILE	CA-C-N	5.31	125.32	119.90
34	S6	79	ILE	C-N-CA	5.31	125.32	119.90
16	W4	61	ILE	N-CA-C	5.29	114.41	106.42
34	S2	79	ILE	CA-C-N	5.29	125.29	119.90
34	S2	79	ILE	C-N-CA	5.29	125.29	119.90
22	A4	196	GLU	N-CA-C	5.28	117.79	111.71
25	E3	84	ALA	CB-CA-C	-5.28	110.47	116.54
9	g3	109	LEU	CB-CA-C	-5.27	108.79	116.53
16	W1	61	ILE	N-CA-C	5.26	114.37	106.42
34	S4	79	ILE	CA-C-N	5.26	125.27	119.90
34	S4	79	ILE	C-N-CA	5.26	125.27	119.90
16	W2	61	ILE	N-CA-C	5.24	114.33	106.42
34	S1	79	ILE	CA-C-N	5.23	125.24	119.90
34	S1	79	ILE	C-N-CA	5.23	125.24	119.90
15	O3	109	GLY	CA-C-N	5.23	125.03	119.28
15	O3	109	GLY	C-N-CA	5.23	125.03	119.28
15	O1	109	GLY	CA-C-N	5.23	125.03	119.28
15	O1	109	GLY	C-N-CA	5.23	125.03	119.28
27	H4	106	ARG	N-CA-C	-5.22	106.76	112.72
18	Z2	78	LYS	N-CA-C	-5.22	107.44	112.97
1	T3	110	LEU	N-CA-C	-5.22	106.91	113.28
27	H3	106	ARG	N-CA-C	-5.22	106.77	112.72
9	g5	109	LEU	CB-CA-C	-5.21	108.87	116.53
16	W5	61	ILE	N-CA-C	5.21	114.29	106.42
9	g2	109	LEU	CB-CA-C	-5.21	108.87	116.53
9	g4	109	LEU	CB-CA-C	-5.21	108.87	116.53
25	E6	84	ALA	CB-CA-C	-5.21	110.55	116.54
16	W3	61	ILE	N-CA-C	5.21	114.28	106.42
9	g1	109	LEU	CB-CA-C	-5.20	108.89	116.53
15	O4	109	GLY	CA-C-N	5.19	124.99	119.28
15	O4	109	GLY	C-N-CA	5.19	124.99	119.28
22	A6	196	GLU	N-CA-C	5.19	117.68	111.71
19	b5	65	GLN	CA-C-N	5.19	125.12	119.78
19	b5	65	GLN	C-N-CA	5.19	125.12	119.78
25	E5	84	ALA	CB-CA-C	-5.18	110.58	116.54
18	Z6	78	LYS	N-CA-C	-5.17	107.49	112.97
34	S5	79	ILE	CA-C-N	5.17	125.17	119.90
34	S5	79	ILE	C-N-CA	5.17	125.17	119.90
29	K3	3	MET	CA-C-N	-5.16	114.94	121.91
29	K3	3	MET	C-N-CA	-5.16	114.94	121.91
11	G1	60	GLY	N-CA-C	5.16	122.22	115.36
19	b2	65	GLN	CA-C-N	5.14	125.08	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	b2	65	GLN	C-N-CA	5.14	125.08	119.78
15	O2	109	GLY	CA-C-N	5.14	124.94	119.28
15	O2	109	GLY	C-N-CA	5.14	124.94	119.28
34	S3	79	ILE	CA-C-N	5.14	125.15	119.90
34	S3	79	ILE	C-N-CA	5.14	125.15	119.90
11	G6	60	GLY	N-CA-C	5.13	122.19	115.36
15	O6	109	GLY	CA-C-N	5.13	124.92	119.28
15	O6	109	GLY	C-N-CA	5.13	124.92	119.28
11	G2	60	GLY	N-CA-C	5.13	122.18	115.36
14	N1	134	VAL	N-CA-C	-5.12	106.05	113.07
18	Z5	78	LYS	N-CA-C	-5.11	107.55	112.97
18	Z1	78	LYS	N-CA-C	-5.11	107.55	112.97
9	g6	109	LEU	CB-CA-C	-5.11	109.02	116.53
14	N6	134	VAL	N-CA-C	-5.10	106.13	113.07
11	G3	60	GLY	N-CA-C	5.10	122.14	115.36
19	b4	65	GLN	CA-C-N	5.10	125.03	119.78
19	b4	65	GLN	C-N-CA	5.10	125.03	119.78
1	T4	110	LEU	N-CA-C	-5.10	107.06	113.28
18	Z3	78	LYS	N-CA-C	-5.09	107.57	112.97
18	Z4	78	LYS	N-CA-C	-5.08	107.59	112.97
27	H6	106	ARG	N-CA-C	-5.08	106.93	112.72
1	T6	110	LEU	N-CA-C	-5.06	107.11	113.28
29	K2	3	MET	CA-C-N	-5.05	115.09	121.91
29	K2	3	MET	C-N-CA	-5.05	115.09	121.91
29	K1	3	MET	CA-C-N	-5.03	115.12	121.91
29	K1	3	MET	C-N-CA	-5.03	115.12	121.91
1	T2	110	LEU	N-CA-C	-5.03	107.15	113.28
19	b6	65	GLN	CA-C-N	5.02	124.95	119.78
19	b6	65	GLN	C-N-CA	5.02	124.95	119.78
29	K4	3	MET	CA-C-N	-5.02	115.13	121.91
29	K4	3	MET	C-N-CA	-5.02	115.13	121.91
1	T5	110	LEU	N-CA-C	-5.01	107.17	113.28
11	G4	60	GLY	N-CA-C	5.01	122.02	115.36
14	N2	134	VAL	N-CA-C	-5.00	106.26	113.07
1	T1	110	LEU	N-CA-C	-5.00	107.18	113.28

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
33	R1	69	ILE	Peptide
33	R2	69	ILE	Peptide

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Mol	Chain	Res	Type	Group
33	R3	69	ILE	Peptide
33	R4	69	ILE	Peptide
33	R5	69	ILE	Peptide
36	k2	93	PRO	Mainchain
36	k3	180	TYR	Mainchain,Peptide
36	k5	167	ILE	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T1	1112	0	1146	49	0
1	T2	1112	0	1146	52	0
1	T3	1112	0	1146	53	3
1	T4	1112	0	1146	53	3
1	T5	1112	0	1146	52	0
1	T6	1112	0	1146	52	0
2	U1	821	0	883	84	0
2	U2	821	0	883	87	0
2	U3	821	0	883	87	0
2	U4	821	0	883	86	0
2	U5	821	0	883	88	0
2	U6	821	0	883	87	0
3	V1	636	0	637	25	0
3	V2	636	0	637	27	0
3	V3	636	0	637	25	0
3	V4	636	0	637	25	0
3	V5	636	0	637	27	0
3	V6	636	0	637	27	0
4	X1	1098	0	1167	60	0
4	X2	1098	0	1167	84	0
4	X3	1098	0	1167	65	0
4	X4	1098	0	1167	63	0
4	X5	1098	0	1167	61	0
4	X6	1098	0	1167	59	0
5	a1	847	0	899	60	0
5	a2	847	0	899	59	0
5	a3	847	0	899	58	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	a4	847	0	899	60	0
5	a5	847	0	899	59	0
5	a6	847	0	899	57	0
6	c1	506	0	536	24	0
6	c2	506	0	536	24	0
6	c3	506	0	536	25	0
6	c4	506	0	536	26	0
6	c5	506	0	536	25	0
6	c6	506	0	536	23	0
7	d1	445	0	442	30	0
7	d2	445	0	442	31	0
7	d3	445	0	442	31	0
7	d4	445	0	442	31	0
7	d5	445	0	442	31	0
7	d6	445	0	442	32	0
8	f1	585	0	617	190	0
8	f2	585	0	617	184	0
8	f3	585	0	618	181	3
8	f4	585	0	616	168	0
8	f5	585	0	617	180	0
8	f6	585	0	618	174	0
9	g1	2436	0	2393	124	3
9	g2	2436	0	2393	129	1
9	g3	2436	0	2393	131	1
9	g4	2436	0	2393	130	2
9	g5	2436	0	2393	124	1
9	g6	2436	0	2393	131	3
10	C1	1725	0	1806	176	0
10	C2	1725	0	1810	180	0
10	C3	1725	0	1811	172	0
10	C4	1725	0	1809	163	0
10	C5	1725	0	1809	160	0
10	C6	1725	0	1808	200	0
11	G1	1923	0	2089	180	0
11	G2	1923	0	2089	197	0
11	G3	1923	0	2089	168	0
11	G4	1923	0	2089	183	0
11	G5	1923	0	2086	203	0
11	G6	1923	0	2089	157	0
12	J1	1525	0	1640	88	0
12	J2	1525	0	1640	96	0
12	J3	1525	0	1640	84	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	J4	1525	0	1640	95	0
12	J5	1525	0	1640	100	0
12	J6	1525	0	1640	99	0
13	M1	953	0	990	103	0
13	M2	953	0	990	100	0
13	M3	953	0	990	100	1
13	M4	953	0	990	101	0
13	M5	953	0	990	103	0
13	M6	953	0	990	100	0
14	N1	1208	0	1294	112	8
14	N2	1208	0	1294	113	1
14	N3	1208	0	1294	121	0
14	N4	1208	0	1294	102	4
14	N5	1208	0	1294	117	0
14	N6	1208	0	1294	112	5
15	O1	1049	0	1073	87	0
15	O2	1049	0	1071	94	0
15	O3	1049	0	1072	71	0
15	O4	1049	0	1073	77	0
15	O5	1049	0	1071	77	0
15	O6	1049	0	1071	102	0
16	W1	1034	0	1080	65	0
16	W2	1034	0	1080	58	0
16	W3	1034	0	1080	70	0
16	W4	1034	0	1080	74	0
16	W5	1034	0	1080	60	0
16	W6	1034	0	1080	58	0
17	Y1	1065	0	1142	62	0
17	Y2	1065	0	1142	75	0
17	Y3	1065	0	1142	56	0
17	Y4	1065	0	1142	53	0
17	Y5	1065	0	1142	54	0
17	Y6	1065	0	1142	55	0
18	Z1	598	0	655	113	0
18	Z2	598	0	655	118	0
18	Z3	598	0	655	132	0
18	Z4	598	0	655	121	0
18	Z5	598	0	655	120	0
18	Z6	598	0	654	121	0
19	b1	651	0	672	48	16
19	b2	651	0	672	18	2
19	b3	651	0	672	20	9

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	b4	651	0	672	35	11
19	b5	651	0	672	19	6
19	b6	651	0	672	23	0
20	e1	459	0	503	77	0
20	e2	459	0	502	109	0
20	e3	459	0	503	50	0
20	e4	459	0	503	81	0
20	e5	459	0	503	82	0
20	e6	459	0	502	55	0
21	i1	36900	0	18592	1544	2
21	i2	36900	0	18590	1492	15
21	i3	36900	0	18593	1436	8
21	i4	36900	0	18594	1447	14
21	i5	36900	0	18589	1519	7
21	i6	36900	0	18589	1482	7
22	A1	1747	0	1749	153	0
22	A2	1747	0	1751	159	0
22	A3	1747	0	1749	158	0
22	A4	1747	0	1748	140	0
22	A5	1747	0	1748	149	0
22	A6	1747	0	1748	160	0
23	B1	1738	0	1809	83	0
23	B2	1738	0	1809	110	0
23	B3	1738	0	1809	77	0
23	B4	1738	0	1809	106	0
23	B5	1738	0	1809	88	0
23	B6	1738	0	1809	91	0
24	D1	1765	0	1865	100	6
24	D2	1765	0	1865	106	12
24	D3	1765	0	1865	105	0
24	D4	1765	0	1865	104	0
24	D5	1765	0	1865	106	0
24	D6	1765	0	1865	113	0
25	E1	2076	0	2177	96	0
25	E2	2076	0	2177	96	0
25	E3	2076	0	2177	99	0
25	E4	2076	0	2177	93	0
25	E5	2076	0	2177	93	0
25	E6	2076	0	2177	93	0
26	F1	1509	0	1563	134	0
26	F2	1509	0	1561	148	0
26	F3	1509	0	1562	153	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
26	F4	1509	0	1561	150	0
26	F5	1509	0	1562	134	0
26	F6	1509	0	1563	142	0
27	H1	1521	0	1616	75	19
27	H2	1521	0	1616	89	0
27	H3	1521	0	1616	84	2
27	H4	1521	0	1616	85	28
27	H5	1521	0	1616	74	5
27	H6	1521	0	1616	72	0
28	I1	1686	0	1769	154	0
28	I2	1686	0	1769	81	0
28	I3	1686	0	1772	119	0
28	I4	1686	0	1767	127	0
28	I5	1686	0	1772	94	0
28	I6	1686	0	1772	83	0
29	K1	827	0	854	83	1
29	K2	827	0	854	84	2
29	K3	827	0	854	82	0
29	K4	827	0	854	85	0
29	K5	827	0	854	82	0
29	K6	827	0	854	83	0
30	L1	1247	0	1323	124	0
30	L2	1247	0	1323	99	0
30	L3	1247	0	1323	74	0
30	L4	1247	0	1322	120	0
30	L5	1247	0	1323	93	0
30	L6	1247	0	1323	87	0
31	P1	1033	0	1079	193	0
31	P2	1033	0	1079	179	0
31	P3	1033	0	1079	208	0
31	P4	1033	0	1079	187	0
31	P5	1033	0	1079	214	0
31	P6	1033	0	1078	202	0
32	Q1	1158	0	1232	54	0
32	Q2	1158	0	1232	55	0
32	Q3	1158	0	1232	55	0
32	Q4	1158	0	1232	55	0
32	Q5	1158	0	1232	58	0
32	Q6	1158	0	1232	58	0
33	R1	1072	0	1130	112	0
33	R2	1072	0	1130	121	2
33	R3	1072	0	1128	140	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	R4	1072	0	1128	111	0
33	R5	1072	0	1130	121	0
33	R6	1072	0	1130	118	5
34	S1	1184	0	1240	140	0
34	S2	1184	0	1241	145	0
34	S3	1184	0	1241	123	0
34	S4	1184	0	1242	119	0
34	S5	1184	0	1242	141	0
34	S6	1184	0	1242	122	0
35	j1	239	0	287	86	0
35	j2	239	0	288	55	0
35	j3	239	0	286	56	0
35	j4	239	0	288	92	0
35	j5	239	0	289	79	0
35	j6	239	0	287	40	0
36	k1	1421	0	1436	327	0
36	k2	1421	0	1433	288	0
36	k3	1421	0	1436	256	0
36	k4	1421	0	1437	256	0
36	k5	1421	0	1436	247	0
36	k6	1421	0	1436	223	0
37	l1	629	0	626	199	0
37	l2	629	0	626	189	0
37	l3	629	0	626	205	0
37	l4	629	0	626	209	0
37	l5	629	0	626	207	0
37	l6	629	0	626	208	0
38	f1	1	0	0	2	0
38	f2	1	0	0	1	0
38	f3	1	0	0	0	0
38	f4	1	0	0	0	0
38	f5	1	0	0	3	0
38	f6	1	0	0	1	0
All	All	470574	0	372069	24796	109

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 30.

All (24796) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M5:36:ARG:CZ	21:i5:1310:U:C5	1.74	1.68
36:k4:33:PHE:CE1	36:k4:92:LEU:HD11	1.28	1.67
13:M1:36:ARG:CZ	21:i1:1310:U:C5	1.74	1.66
13:M3:36:ARG:CZ	21:i3:1310:U:C5	1.74	1.66
13:M6:36:ARG:CZ	21:i6:1310:U:C5	1.74	1.66
36:k3:2:PHE:HB2	36:k3:168:HIS:CE1	1.24	1.66
31:P1:121:ILE:HD11	31:P1:123:TYR:CE2	1.23	1.64
21:i5:1300:U:C2'	31:P5:51:ARG:HH12	1.11	1.64
31:P5:121:ILE:HD11	31:P5:123:TYR:CE2	1.23	1.64
31:P4:119:PHE:CE1	34:S4:119:ALA:HB1	1.34	1.63
18:Z6:70:PRO:HG3	18:Z6:88:LEU:CD1	1.17	1.63
31:P6:121:ILE:HD11	31:P6:123:TYR:CE2	1.23	1.63
31:P4:121:ILE:HD11	31:P4:123:TYR:CE2	1.23	1.63
31:P3:121:ILE:HD11	31:P3:123:TYR:CE2	1.23	1.62
14:N3:129:TYR:HB3	14:N3:134:VAL:CG2	1.25	1.61
21:i1:1300:U:C2'	31:P1:51:ARG:HH12	1.11	1.61
2:U6:17:ILE:CG2	2:U6:95:SER:H	1.07	1.61
4:X2:55:VAL:CG2	20:e2:2:VAL:HA	1.26	1.61
18:Z5:70:PRO:HG3	18:Z5:88:LEU:CD1	1.17	1.61
23:B4:21:VAL:HG22	30:L5:31:GLU:CG	1.28	1.61
21:i6:1300:U:C2'	31:P6:51:ARG:HH12	1.11	1.61
2:U1:17:ILE:CG2	2:U1:95:SER:H	1.07	1.60
13:M4:36:ARG:CZ	21:i4:1310:U:C5	1.74	1.60
31:P6:119:PHE:CE1	34:S6:119:ALA:HB1	1.34	1.60
13:M2:36:ARG:CZ	21:i2:1310:U:C5	1.74	1.60
31:P1:119:PHE:CE1	34:S1:119:ALA:HB1	1.34	1.60
2:U5:17:ILE:CG2	2:U5:95:SER:H	1.07	1.60
18:Z4:70:PRO:HG3	18:Z4:88:LEU:CD1	1.17	1.60
21:i4:1236:G:H5''	31:P4:133:ILE:CD1	1.32	1.60
31:P5:96:VAL:HG21	31:P5:116:LEU:CD1	1.29	1.60
31:P1:96:VAL:HG21	31:P1:116:LEU:CD1	1.29	1.59
31:P5:119:PHE:CE1	34:S5:119:ALA:HB1	1.34	1.59
21:i5:1849:G:C5'	37:l5:146:ARG:HH22	1.08	1.59
31:P2:121:ILE:HD11	31:P2:123:TYR:CE2	1.23	1.59
11:G5:143:LYS:HD3	21:i5:1778:C:C5'	1.26	1.58
2:U2:17:ILE:CG2	2:U2:95:SER:H	1.07	1.58
11:G4:141:ILE:HG13	11:G4:144:LEU:CD2	1.30	1.58
31:P6:96:VAL:HG21	31:P6:116:LEU:CD1	1.28	1.58
31:P2:119:PHE:CE1	34:S2:119:ALA:HB1	1.34	1.58
18:Z1:70:PRO:HG3	18:Z1:88:LEU:CD1	1.17	1.58
14:N2:133:ARG:HD3	30:L2:152:LYS:CE	1.31	1.58
31:P2:96:VAL:HG21	31:P2:116:LEU:CD1	1.28	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I1:125:LYS:HD2	15:O6:66:ARG:CD	1.19	1.57
31:P3:119:PHE:CE1	34:S3:119:ALA:HB1	1.34	1.57
21:i6:1849:G:C5	37:l6:149:ALA:HB1	1.37	1.57
21:i2:1300:U:C2'	31:P2:51:ARG:HH12	1.11	1.57
21:i4:1236:G:C5'	31:P4:133:ILE:HD12	1.18	1.57
11:G5:141:ILE:HG13	11:G5:144:LEU:CD2	1.30	1.56
11:G2:141:ILE:HG13	11:G2:144:LEU:CD2	1.30	1.56
21:i3:1300:U:C2'	31:P3:51:ARG:HH12	1.11	1.56
36:k3:95:GLN:CG	36:k3:164:ILE:CD1	1.82	1.56
21:i4:1300:U:C2'	31:P4:51:ARG:HH12	1.15	1.56
11:G1:141:ILE:HG13	11:G1:144:LEU:CD2	1.30	1.55
15:O2:66:ARG:CD	28:I4:125:LYS:HD2	1.34	1.55
34:S2:108:ARG:NH2	21:i4:1773:C:C6	1.70	1.55
36:k6:95:GLN:HG3	36:k6:164:ILE:CD1	1.15	1.55
11:G3:141:ILE:HG13	11:G3:144:LEU:CD2	1.30	1.55
18:Z6:70:PRO:CG	18:Z6:88:LEU:CD1	1.83	1.55
18:Z1:70:PRO:CG	18:Z1:88:LEU:CD1	1.83	1.55
2:U3:17:ILE:CG2	2:U3:95:SER:H	1.07	1.55
18:Z3:70:PRO:HG3	18:Z3:88:LEU:CD1	1.17	1.55
2:U4:17:ILE:CG2	2:U4:95:SER:H	1.07	1.55
36:k4:2:PHE:CB	36:k4:168:HIS:CE1	1.81	1.55
21:i1:1172:U:C5'	35:j1:14:LYS:HD3	1.31	1.54
31:P2:121:ILE:CD1	31:P2:123:TYR:CE2	1.91	1.54
18:Z4:70:PRO:CG	18:Z4:88:LEU:CD1	1.83	1.54
31:P4:96:VAL:HG21	31:P4:116:LEU:CD1	1.28	1.54
11:G5:143:LYS:CD	21:i5:1778:C:H5''	1.35	1.54
21:i5:1236:G:C5'	31:P5:133:ILE:HD12	1.34	1.54
36:k4:95:GLN:HB2	36:k4:134:ILE:CD1	1.34	1.54
21:i3:1172:U:H4'	35:j3:10:MET:CE	1.31	1.54
11:G6:141:ILE:HG13	11:G6:144:LEU:CD2	1.30	1.54
31:P3:121:ILE:CD1	31:P3:123:TYR:CE2	1.91	1.54
31:P6:121:ILE:CD1	31:P6:123:TYR:CE2	1.91	1.54
37:l4:178:ILE:HD12	37:l4:190:ILE:CG2	1.06	1.54
22:A6:214:GLU:HG3	33:R6:84:TYR:CE1	1.38	1.53
36:k1:10:ASN:CA	36:k1:56:HIS:CE1	1.88	1.53
4:X2:55:VAL:HG21	20:e2:2:VAL:CA	1.05	1.53
18:Z2:70:PRO:HG3	18:Z2:88:LEU:CD1	1.17	1.53
11:G4:143:LYS:CD	21:i4:1778:C:H5''	1.32	1.53
31:P4:96:VAL:CG2	31:P4:116:LEU:CD1	1.86	1.53
31:P3:96:VAL:CG2	31:P3:116:LEU:CD1	1.86	1.53
31:P3:96:VAL:HG21	31:P3:116:LEU:CD1	1.28	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:129:TYR:CB	14:N5:134:VAL:HG21	1.35	1.53
21:i6:1849:G:C6	37:l6:149:ALA:HB1	1.04	1.53
37:l3:178:ILE:HD12	37:l3:190:ILE:CG2	1.06	1.53
31:P2:96:VAL:CG2	31:P2:116:LEU:CD1	1.86	1.52
37:l5:178:ILE:HD12	37:l5:190:ILE:CG2	1.06	1.52
31:P6:96:VAL:CG2	31:P6:116:LEU:CD1	1.86	1.52
36:k1:11:VAL:HG11	36:k1:180:TYR:CZ	1.42	1.52
31:P1:121:ILE:CD1	31:P1:123:TYR:CE2	1.90	1.52
23:B4:21:VAL:CG2	30:L5:31:GLU:HG3	1.36	1.52
8:f5:87:THR:CG2	8:f5:90:LYS:HE2	1.37	1.52
21:i1:1172:U:H4'	35:j1:10:MET:CE	1.33	1.52
22:A1:214:GLU:HG3	33:R1:84:TYR:CE1	1.37	1.52
20:e5:45:VAL:CG2	21:i5:535:G:C4'	1.83	1.52
31:P1:96:VAL:CG2	31:P1:116:LEU:CD1	1.86	1.52
14:N3:129:TYR:CB	14:N3:134:VAL:HG21	1.04	1.52
20:e5:45:VAL:HG21	21:i5:535:G:C4'	1.04	1.52
31:P5:96:VAL:CG2	31:P5:116:LEU:CD1	1.86	1.52
8:f4:87:THR:CG2	8:f4:90:LYS:HE2	1.37	1.51
20:e1:45:VAL:HG11	21:i1:535:G:C3'	1.29	1.51
8:f2:87:THR:CG2	8:f2:90:LYS:HE2	1.37	1.51
31:P4:121:ILE:CD1	31:P4:123:TYR:CE2	1.91	1.51
37:l2:178:ILE:HD12	37:l2:190:ILE:CG2	1.06	1.51
15:O1:66:ARG:CZ	28:I3:125:LYS:CD	1.81	1.51
18:Z2:70:PRO:CG	18:Z2:88:LEU:CD1	1.83	1.51
8:f1:87:THR:CG2	8:f1:90:LYS:HE2	1.36	1.51
18:Z3:70:PRO:CG	18:Z3:88:LEU:CD1	1.83	1.51
18:Z5:70:PRO:CG	18:Z5:88:LEU:CD1	1.83	1.51
37:l6:178:ILE:HD12	37:l6:190:ILE:CG2	1.06	1.51
37:l1:178:ILE:HD12	37:l1:190:ILE:CG2	1.06	1.50
21:i5:1240:A:C2	31:P5:100:LYS:HA	1.47	1.50
13:M6:36:ARG:NH1	21:i6:1310:U:C5	1.74	1.50
13:M4:36:ARG:NH1	21:i4:1310:U:C5	1.74	1.50
8:f6:87:THR:CG2	8:f6:90:LYS:HE2	1.37	1.50
8:f3:87:THR:CG2	8:f3:90:LYS:HE2	1.37	1.50
23:B4:21:VAL:HA	30:L5:31:GLU:CD	1.09	1.50
36:k1:10:ASN:HA	36:k1:56:HIS:CE1	0.99	1.50
36:k3:95:GLN:HG3	36:k3:164:ILE:CD1	1.32	1.50
18:Z4:70:PRO:CG	18:Z4:88:LEU:HD11	1.41	1.50
21:i4:1240:A:C2	31:P4:100:LYS:HA	1.47	1.50
11:G4:143:LYS:HD3	21:i4:1778:C:C5'	1.41	1.49
37:l5:178:ILE:CD1	37:l5:190:ILE:CG2	1.91	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I3:207:GLY:C	36:k1:12:SER:CB	1.85	1.48
10:C6:68:ARG:NH1	10:C6:277:HIS:CB	1.76	1.48
36:k3:33:PHE:CE1	36:k3:92:LEU:HD11	1.47	1.48
36:k4:95:GLN:CG	36:k4:164:ILE:CD1	1.90	1.48
20:e2:45:VAL:HG21	21:i2:535:G:C5'	1.40	1.48
8:f1:80:ARG:HD2	21:i1:1509:U:N3	1.18	1.48
10:C5:68:ARG:NH1	10:C5:277:HIS:CB	1.76	1.48
31:P5:121:ILE:CD1	31:P5:123:TYR:CE2	1.91	1.48
27:H4:163:GLN:HG3	27:H4:189:PHE:CE2	1.45	1.48
8:f2:80:ARG:HD2	21:i2:1509:U:N3	1.20	1.47
26:F3:182:LYS:NZ	21:i6:200:G:C5'	1.76	1.47
10:C4:68:ARG:NH1	10:C4:277:HIS:CB	1.77	1.47
10:C1:68:ARG:NH1	10:C1:277:HIS:CB	1.76	1.47
21:i1:1240:A:C2	31:P1:100:LYS:HA	1.46	1.47
11:G3:141:ILE:CG1	11:G3:144:LEU:CD2	1.87	1.47
20:e3:45:VAL:CG1	21:i3:535:G:H4'	1.37	1.47
37:l1:178:ILE:CD1	37:l1:190:ILE:CG2	1.91	1.47
21:i2:1240:A:C2	31:P2:100:LYS:HA	1.46	1.47
18:Z5:70:PRO:CG	18:Z5:88:LEU:HD11	1.40	1.47
21:i5:1236:G:H5''	31:P5:133:ILE:CD1	1.44	1.47
37:l4:178:ILE:CD1	37:l4:190:ILE:CG2	1.91	1.47
28:I1:125:LYS:CD	15:O6:66:ARG:CD	1.90	1.47
2:U3:19:ARG:HD3	2:U3:119:ALA:CB	1.46	1.47
37:l2:178:ILE:CD1	37:l2:190:ILE:CG2	1.91	1.47
37:l6:178:ILE:CD1	37:l6:190:ILE:CG2	1.91	1.47
15:O1:66:ARG:NH2	28:I3:125:LYS:CD	1.73	1.46
31:P1:12:PHE:CZ	21:i3:1764:G:C4'	1.97	1.46
20:e1:45:VAL:CG1	21:i1:535:G:O3'	1.64	1.46
28:I1:125:LYS:CD	15:O6:66:ARG:HD3	1.45	1.46
8:f4:95:ARG:CD	21:i4:1289:U:OP2	1.64	1.46
8:f6:95:ARG:CD	21:i6:1289:U:OP2	1.64	1.46
18:Z6:70:PRO:CG	18:Z6:88:LEU:HD11	1.41	1.46
21:i6:1240:A:C2	31:P6:100:LYS:HA	1.47	1.46
10:C2:68:ARG:NH1	10:C2:277:HIS:CB	1.76	1.46
21:i3:1240:A:C2	31:P3:100:LYS:HA	1.47	1.46
21:i6:1849:G:C6	37:l6:149:ALA:CB	1.98	1.46
8:f6:141:CYS:SG	38:f6:500:ZN:ZN	1.01	1.45
37:l3:178:ILE:CD1	37:l3:190:ILE:CG2	1.91	1.45
8:f3:95:ARG:CD	21:i3:1289:U:OP2	1.64	1.45
20:e5:45:VAL:CG2	21:i5:535:G:H4'	1.36	1.45
20:e5:45:VAL:CB	21:i5:535:G:H4'	1.46	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N6:133:ARG:CD	30:L6:152:LYS:HG3	1.46	1.45
13:M1:36:ARG:NH1	21:i1:1310:U:C5	1.73	1.45
21:i3:1613:G:OP2	31:P3:39:ALA:CB	1.65	1.45
8:f1:95:ARG:CD	21:i1:1289:U:OP2	1.64	1.45
21:i1:1172:U:H5'	35:j1:14:LYS:CD	1.43	1.45
8:f2:95:ARG:CD	21:i2:1289:U:OP2	1.63	1.45
10:C3:68:ARG:NH1	10:C3:277:HIS:CB	1.76	1.45
36:k5:82:LEU:CD1	36:k5:169:TYR:HA	1.44	1.45
21:i2:1849:G:C6	37:l2:149:ALA:HB1	1.49	1.44
20:e1:45:VAL:CB	21:i1:535:G:O2'	1.65	1.44
21:i4:1841:C:H3'	35:j4:2:ARG:NH2	1.26	1.44
21:i6:316:G:C2	21:i6:335:G:N1	1.83	1.44
8:f1:105:TYR:CE1	8:f1:131:PHE:CG	2.06	1.44
11:G1:141:ILE:CG1	11:G1:144:LEU:CD2	1.87	1.44
15:O1:66:ARG:NH2	28:I3:125:LYS:HD3	1.22	1.44
2:U5:19:ARG:HD3	2:U5:119:ALA:CB	1.45	1.44
8:f5:95:ARG:CD	21:i5:1289:U:OP2	1.64	1.44
2:U1:19:ARG:HD3	2:U1:119:ALA:CB	1.45	1.43
8:f1:99:LYS:CG	21:i1:1285:G:H21	1.25	1.43
10:C2:273:LEU:CD1	10:C2:280:VAL:HG11	1.48	1.43
10:C3:74:LYS:HE2	10:C3:272:HIS:CG	1.51	1.43
10:C3:266:TYR:O	22:A3:120:ARG:CZ	1.67	1.43
30:L4:121:GLN:HG3	30:L4:153:LYS:CE	1.48	1.43
2:U6:19:ARG:HD3	2:U6:119:ALA:CB	1.45	1.43
10:C6:68:ARG:NH1	10:C6:277:HIS:HB3	1.10	1.43
2:U2:19:ARG:HD3	2:U2:119:ALA:CB	1.45	1.43
10:C2:74:LYS:HE2	10:C2:272:HIS:CG	1.51	1.43
8:f3:92:LYS:O	21:i3:1304:U:C4'	1.67	1.43
21:i4:315:C:N3	21:i4:336:A:H2	1.15	1.43
21:i5:1849:G:C5'	37:l5:146:ARG:NH2	1.74	1.43
10:C2:266:TYR:O	22:A2:120:ARG:CZ	1.67	1.43
10:C1:273:LEU:CD1	10:C1:280:VAL:HG11	1.48	1.43
18:Z3:70:PRO:CG	18:Z3:88:LEU:HD11	1.41	1.43
26:F3:182:LYS:NZ	21:i6:200:G:H5''	1.16	1.43
10:C4:273:LEU:CD1	10:C4:280:VAL:HG11	1.48	1.43
20:e5:43:VAL:CG1	21:i5:551:U:O2'	1.65	1.43
8:f6:87:THR:HG21	8:f6:90:LYS:CE	1.49	1.43
10:C3:273:LEU:CD1	10:C3:280:VAL:HG11	1.48	1.42
8:f4:92:LYS:O	21:i4:1304:U:C4'	1.66	1.42
10:C4:266:TYR:O	22:A4:120:ARG:CZ	1.67	1.42
13:M5:36:ARG:NH1	21:i5:1310:U:C5	1.73	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M5:40:LYS:NZ	21:i5:1310:U:H5''	1.10	1.42
37:l6:128:VAL:CG1	37:l6:166:ILE:N	1.82	1.42
13:M2:36:ARG:NH1	21:i2:1310:U:C5	1.73	1.42
8:f3:87:THR:HG21	8:f3:90:LYS:CE	1.49	1.42
2:U4:19:ARG:HD3	2:U4:119:ALA:CB	1.45	1.42
8:f4:105:TYR:CE1	8:f4:131:PHE:CG	2.06	1.42
36:k2:86:HIS:CE1	36:k2:141:HIS:HB3	1.54	1.42
8:f2:87:THR:HG21	8:f2:90:LYS:CE	1.49	1.42
8:f6:105:TYR:CE1	8:f6:131:PHE:CG	2.06	1.42
36:k2:7:GLU:HB3	36:k2:177:MET:CG	1.49	1.42
36:k2:86:HIS:NE2	36:k2:141:HIS:HB3	1.31	1.42
8:f4:87:THR:HG21	8:f4:90:LYS:CE	1.49	1.42
14:N6:133:ARG:HD3	30:L6:152:LYS:CG	1.47	1.42
36:k4:2:PHE:HB2	36:k4:168:HIS:CE1	0.89	1.42
8:f4:95:ARG:NE	21:i4:1289:U:H5''	1.35	1.42
8:f5:87:THR:HG21	8:f5:90:LYS:CE	1.49	1.42
10:C5:273:LEU:CD1	10:C5:280:VAL:HG11	1.48	1.42
10:C6:273:LEU:CD1	10:C6:280:VAL:HG11	1.48	1.42
37:l2:128:VAL:CG1	37:l2:166:ILE:N	1.82	1.42
8:f2:105:TYR:CE1	8:f2:131:PHE:CG	2.06	1.41
8:f5:105:TYR:CE1	8:f5:131:PHE:CG	2.06	1.41
21:i5:557:U:H2'	21:i5:558:G:N7	1.32	1.41
10:C6:266:TYR:O	22:A6:120:ARG:CZ	1.67	1.41
8:f1:92:LYS:O	21:i1:1304:U:C4'	1.67	1.41
36:k1:86:HIS:NE2	36:k1:141:HIS:HB3	1.27	1.41
13:M2:40:LYS:NZ	21:i2:1310:U:H5''	1.10	1.41
21:i3:1236:G:C5'	31:P3:133:ILE:HD12	1.50	1.41
37:l1:128:VAL:CG1	37:l1:166:ILE:N	1.82	1.41
37:l3:128:VAL:CG1	37:l3:166:ILE:N	1.82	1.41
30:L1:121:GLN:CB	30:L1:153:LYS:HD2	1.51	1.41
8:f2:92:LYS:O	21:i2:1304:U:C4'	1.66	1.41
21:i3:1751:C:N4	21:i3:1781:A:H2	1.13	1.41
11:G5:189:ARG:HD2	21:i5:330:G:N7	1.12	1.41
11:G5:189:ARG:NH1	21:i5:329:G:N7	1.62	1.41
14:N5:129:TYR:O	14:N5:134:VAL:CG2	1.68	1.41
36:k4:95:GLN:HG3	36:k4:164:ILE:CD1	0.95	1.41
20:e1:45:VAL:CG1	21:i1:535:G:H4'	1.48	1.41
13:M3:36:ARG:NH1	21:i3:1310:U:C5	1.73	1.41
37:l4:128:VAL:CG1	37:l4:166:ILE:N	1.82	1.40
13:M6:40:LYS:NZ	21:i6:1310:U:H5''	1.10	1.40
36:k1:145:VAL:O	36:k1:167:ILE:CB	1.68	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:95:GLN:HG3	36:k2:164:ILE:CD1	1.50	1.40
37:l3:128:VAL:HG13	37:l3:166:ILE:N	1.37	1.40
37:l5:128:VAL:CG1	37:l5:166:ILE:N	1.82	1.40
8:f1:87:THR:HG21	8:f1:90:LYS:CE	1.49	1.40
10:C1:68:ARG:HD2	10:C1:277:HIS:ND1	1.36	1.40
21:i2:1772:C:H5'	34:S5:112:GLU:CD	1.44	1.40
20:e3:25:LYS:HD2	21:i3:554:A:P	1.58	1.40
10:C5:68:ARG:HD2	10:C5:277:HIS:ND1	1.36	1.40
8:f6:80:ARG:HD2	21:i6:1509:U:N3	1.33	1.40
18:Z2:70:PRO:CG	18:Z2:88:LEU:HD11	1.40	1.40
21:i2:557:U:H2'	21:i2:558:G:C8	1.57	1.40
8:f3:105:TYR:CE1	8:f3:131:PHE:CG	2.06	1.40
36:k1:86:HIS:CE1	36:k1:141:HIS:HB3	1.53	1.40
10:C1:266:TYR:O	22:A1:120:ARG:CZ	1.66	1.40
23:B2:21:VAL:CG2	30:L4:31:GLU:C	1.80	1.40
2:U4:17:ILE:CG2	2:U4:95:SER:N	1.84	1.40
13:M4:40:LYS:NZ	21:i4:1310:U:H5''	1.10	1.40
8:f6:92:LYS:O	21:i6:1304:U:C4'	1.66	1.40
21:i1:1613:G:OP2	31:P1:39:ALA:CB	1.68	1.39
8:f3:95:ARG:NE	21:i3:1289:U:H5''	1.35	1.39
8:f4:80:ARG:CD	21:i4:1509:U:H3	1.35	1.39
31:P6:41:GLN:NE2	31:P6:84:ILE:HG23	1.36	1.39
13:M3:40:LYS:NZ	21:i3:1310:U:H5''	1.10	1.39
21:i3:315:C:N3	21:i3:336:A:H2	1.12	1.39
8:f5:92:LYS:O	21:i5:1304:U:C4'	1.67	1.39
18:Z1:50:PHE:O	34:S1:5:ILE:CG2	1.71	1.39
8:f2:95:ARG:NE	21:i2:1289:U:H5''	1.35	1.39
2:U5:17:ILE:CG2	2:U5:95:SER:N	1.84	1.39
10:C5:266:TYR:O	22:A5:120:ARG:CZ	1.67	1.39
21:i1:1300:U:C4	31:P1:51:ARG:HD2	1.57	1.39
36:k6:7:GLU:OE1	36:k6:177:MET:HG3	1.21	1.39
10:C2:68:ARG:NH1	10:C2:277:HIS:HB3	1.10	1.39
12:J2:125:HIS:CG	21:i2:526:A:O2'	1.74	1.39
12:J4:173:VAL:HG21	21:i4:561:A:N6	1.38	1.39
15:O3:63:LYS:NZ	28:I6:163:GLU:HB3	1.32	1.38
21:i3:1300:U:C4	31:P3:51:ARG:HD2	1.57	1.38
23:B4:21:VAL:CA	30:L5:31:GLU:CD	1.93	1.38
10:C5:68:ARG:NH1	10:C5:277:HIS:HB3	1.10	1.38
13:M6:36:ARG:NH2	21:i6:1310:U:C5	1.91	1.38
10:C1:68:ARG:NH1	10:C1:277:HIS:HB3	1.10	1.38
11:G2:141:ILE:CG1	11:G2:144:LEU:HD21	0.90	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1300:U:C4	31:P2:51:ARG:HD2	1.57	1.38
2:U3:17:ILE:CG2	2:U3:95:SER:N	1.84	1.38
14:N5:129:TYR:HB3	14:N5:134:VAL:CG2	1.53	1.38
13:M1:40:LYS:NZ	21:i1:1310:U:H5''	1.10	1.38
10:C4:68:ARG:NH1	10:C4:277:HIS:HB3	1.10	1.38
11:G4:141:ILE:CG1	11:G4:144:LEU:HD21	0.90	1.38
21:i4:213:G:N2	21:i4:214:U:C2	1.91	1.38
2:U6:17:ILE:CG2	2:U6:95:SER:N	1.84	1.38
10:C4:68:ARG:HD2	10:C4:277:HIS:ND1	1.36	1.38
18:Z6:50:PHE:O	34:S6:5:ILE:CG2	1.71	1.38
36:k5:82:LEU:CD1	36:k5:169:TYR:CA	2.01	1.38
37:l2:128:VAL:HG13	37:l2:166:ILE:N	1.37	1.38
37:l5:128:VAL:HG13	37:l5:166:ILE:N	1.37	1.38
2:U1:17:ILE:CG2	2:U1:95:SER:N	1.84	1.38
21:i2:61:A:N1	21:i2:334:C:O2'	1.57	1.38
10:C3:68:ARG:NH1	10:C3:277:HIS:HB3	1.10	1.38
36:k5:82:LEU:HD12	36:k5:169:TYR:C	1.46	1.37
28:I1:141:ARG:NH2	26:F6:191:LYS:HE2	1.36	1.37
13:M2:36:ARG:NH2	21:i2:1310:U:C5	1.91	1.37
11:G4:143:LYS:CD	21:i4:1778:C:C5'	1.97	1.37
11:G6:141:ILE:CG1	11:G6:144:LEU:HD21	0.90	1.37
23:B4:21:VAL:CG2	30:L5:31:GLU:HA	1.52	1.37
20:e5:39:ASN:CB	21:i5:552:G:OP1	1.71	1.37
21:i6:1300:U:C4	31:P6:51:ARG:HD2	1.57	1.37
36:k6:95:GLN:HB2	36:k6:134:ILE:CD1	1.51	1.37
11:G5:141:ILE:CG1	11:G5:144:LEU:HD21	0.90	1.37
21:i5:1172:U:H4'	35:j5:10:MET:CE	1.52	1.37
11:G1:141:ILE:CG1	11:G1:144:LEU:HD21	0.90	1.36
18:Z2:50:PHE:O	34:S2:5:ILE:CG2	1.71	1.36
13:M3:36:ARG:NH2	21:i3:1310:U:C5	1.92	1.36
18:Z3:50:PHE:O	34:S3:5:ILE:CG2	1.71	1.36
23:B4:21:VAL:HG23	30:L5:31:GLU:CA	1.53	1.36
21:i5:1300:U:C4	31:P5:51:ARG:HD2	1.57	1.36
11:G6:141:ILE:CG1	11:G6:144:LEU:CD2	1.87	1.36
36:k2:83:ARG:NH2	36:k2:175:TRP:CE2	1.93	1.36
18:Z4:50:PHE:O	34:S4:5:ILE:CG2	1.71	1.36
37:l6:128:VAL:HG13	37:l6:166:ILE:N	1.37	1.36
10:C2:68:ARG:HD2	10:C2:277:HIS:ND1	1.36	1.36
15:O2:65:ASP:CB	28:I4:123:ARG:NH2	1.88	1.36
23:B2:21:VAL:HG21	30:L4:31:GLU:C	0.94	1.36
11:G3:141:ILE:CG1	11:G3:144:LEU:HD21	0.90	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:145:VAL:O	36:k1:167:ILE:CG1	1.71	1.36
20:e1:45:VAL:HG12	21:i1:535:G:C4'	1.56	1.36
21:i1:211:G:OP1	18:Z6:41:ARG:NH1	1.57	1.36
21:i3:1184:G:OP1	35:j3:11:ARG:NH2	1.56	1.36
10:C6:68:ARG:HD2	10:C6:277:HIS:ND1	1.37	1.36
36:k2:95:GLN:HB2	36:k2:134:ILE:CD1	1.55	1.36
37:l4:128:VAL:HG13	37:l4:166:ILE:N	1.37	1.36
18:Z1:70:PRO:CG	18:Z1:88:LEU:HD11	1.41	1.36
8:f5:95:ARG:NE	21:i5:1289:U:H5''	1.35	1.36
18:Z5:50:PHE:O	34:S5:5:ILE:CG2	1.71	1.36
21:i6:368:U:N3	36:k3:109:ALA:HB1	1.05	1.35
21:i1:1841:C:H3'	35:j1:2:ARG:NH1	1.39	1.35
34:S2:108:ARG:CZ	21:i4:1773:C:H3'	1.54	1.35
27:H4:163:GLN:HG3	27:H4:189:PHE:CZ	1.61	1.35
13:M4:36:ARG:NH2	21:i4:1310:U:C5	1.92	1.35
21:i4:1849:G:H5''	37:l4:146:ARG:NH2	1.03	1.35
20:e1:45:VAL:CG1	21:i1:535:G:C4'	2.05	1.35
4:X2:55:VAL:CB	20:e2:2:VAL:HG12	1.53	1.35
14:N2:133:ARG:CG	30:L2:152:LYS:HG3	1.56	1.35
10:C3:68:ARG:HD2	10:C3:277:HIS:ND1	1.37	1.35
8:f5:80:ARG:CD	21:i5:1509:U:H3	1.40	1.35
31:P5:15:PHE:CZ	31:P5:112:ILE:HG12	1.61	1.35
36:k2:7:GLU:CB	36:k2:177:MET:HG3	1.56	1.35
36:k2:95:GLN:CG	36:k2:164:ILE:CD1	2.04	1.35
2:U3:17:ILE:HG21	2:U3:95:SER:N	1.40	1.35
21:i4:1172:U:H5'	35:j4:14:LYS:NZ	1.42	1.35
20:e5:45:VAL:CG1	21:i5:535:G:H4'	1.57	1.35
2:U6:17:ILE:HG21	2:U6:95:SER:N	1.40	1.35
21:i6:1236:G:C5'	31:P6:133:ILE:HD12	1.57	1.35
8:f3:80:ARG:HD2	21:i3:1509:U:N3	1.06	1.34
26:F4:182:LYS:CA	21:i5:201:C:OP2	1.75	1.34
8:f5:87:THR:HG21	8:f5:90:LYS:NZ	1.42	1.34
11:G5:141:ILE:CG1	11:G5:144:LEU:CD2	1.87	1.34
8:f6:95:ARG:NE	21:i6:1289:U:H5''	1.35	1.34
2:U1:19:ARG:CD	2:U1:119:ALA:C	1.96	1.34
8:f1:87:THR:HG21	8:f1:90:LYS:NZ	1.42	1.34
8:f3:87:THR:HG21	8:f3:90:LYS:NZ	1.42	1.34
11:G1:143:LYS:CD	21:i1:1776:G:O3'	1.74	1.34
26:F2:198:ARG:HH12	28:I4:146:GLN:NE2	1.22	1.34
26:F3:182:LYS:HZ3	21:i6:200:G:C5'	1.36	1.34
36:k3:95:GLN:HB2	36:k3:134:ILE:CD1	1.56	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O1:66:ARG:CZ	28:I3:125:LYS:HD3	0.86	1.34
33:R1:64:GLY:O	33:R1:73:LEU:HD21	1.22	1.34
31:P2:96:VAL:CG2	31:P2:116:LEU:HD12	1.52	1.34
8:f4:86:THR:HG23	21:i4:1269:G:OP2	1.23	1.34
2:U2:17:ILE:CG2	2:U2:95:SER:N	1.84	1.34
21:i3:1613:G:OP2	31:P3:39:ALA:HB2	1.18	1.34
8:f4:105:TYR:CE1	8:f4:131:PHE:CD2	2.16	1.34
8:f5:105:TYR:CE1	8:f5:131:PHE:CD2	2.16	1.34
13:M5:36:ARG:NH2	21:i5:1310:U:C5	1.92	1.33
28:I5:205:ARG:O	36:k4:56:HIS:NE2	1.58	1.33
2:U6:19:ARG:CD	2:U6:119:ALA:C	1.96	1.33
36:k1:95:GLN:HB2	36:k1:134:ILE:CD1	1.56	1.33
36:k5:95:GLN:HB2	36:k5:134:ILE:CD1	1.57	1.33
36:k6:145:VAL:O	36:k6:167:ILE:CG1	1.74	1.33
11:G1:189:ARG:NH1	21:i1:330:G:N7	1.75	1.33
13:M1:36:ARG:NH2	21:i1:1310:U:C5	1.92	1.33
21:i3:315:C:N3	21:i3:336:A:C2	1.96	1.33
21:i3:1236:G:H5''	31:P3:133:ILE:CD1	1.57	1.33
8:f4:80:ARG:HD2	21:i4:1509:U:N3	1.02	1.33
21:i4:316:G:C6	21:i4:335:G:N1	1.96	1.33
21:i5:11:A:N3	21:i5:1357:A:O2'	1.61	1.33
8:f6:105:TYR:CE1	8:f6:131:PHE:CD2	2.16	1.33
2:U1:19:ARG:HD2	2:U1:119:ALA:C	1.52	1.33
8:f1:95:ARG:NE	21:i1:1289:U:H5''	1.35	1.33
10:C2:142:LYS:NZ	21:i2:1350:U:OP2	1.56	1.33
31:P2:41:GLN:HB3	31:P2:84:ILE:CD1	1.58	1.33
8:f2:87:THR:HG21	8:f2:90:LYS:NZ	1.42	1.33
21:i2:1772:C:H4'	34:S5:112:GLU:OE2	1.27	1.33
31:P3:121:ILE:CG1	31:P3:123:TYR:CE2	2.12	1.33
21:i6:368:U:H3	36:k3:109:ALA:CB	1.40	1.33
2:U6:19:ARG:HD2	2:U6:119:ALA:C	1.51	1.33
36:k1:144:CYS:HA	36:k1:168:HIS:O	1.27	1.33
37:l1:128:VAL:HG22	37:l1:166:ILE:O	1.16	1.33
10:C1:121:ARG:NH2	21:i1:1347:U:OP1	1.60	1.32
8:f6:87:THR:HG21	8:f6:90:LYS:NZ	1.43	1.32
14:N6:133:ARG:CD	30:L6:152:LYS:CG	2.03	1.32
10:C1:270:THR:HG21	22:A1:69:GLU:CB	1.59	1.32
21:i1:1615:U:OP2	31:P1:43:ARG:CZ	1.77	1.32
21:i4:1172:U:C5'	35:j4:14:LYS:NZ	1.92	1.32
36:k1:94:HIS:CA	36:k1:133:ALA:O	1.76	1.32
36:k5:94:HIS:CA	36:k5:133:ALA:O	1.77	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1828:C:H5'	37:l5:154:CYS:SG	1.69	1.32
22:A5:89:LYS:HZ1	33:R5:82:ASP:CG	1.37	1.32
28:I1:125:LYS:CG	15:O6:66:ARG:HD2	1.42	1.32
10:C2:270:THR:HG21	22:A2:69:GLU:CB	1.59	1.32
21:i4:1300:U:C4	31:P4:51:ARG:HD2	1.64	1.32
8:f5:80:ARG:HD2	21:i5:1509:U:N3	0.99	1.32
8:f5:105:TYR:OH	8:f5:131:PHE:HB3	1.17	1.32
31:P5:121:ILE:CG1	31:P5:123:TYR:CE2	2.12	1.32
18:Z6:82:SER:CA	21:i6:1598:G:H2'	1.60	1.32
36:k1:180:TYR:O	36:k1:181:LYS:CG	1.77	1.32
2:U1:17:ILE:HG21	2:U1:95:SER:N	1.40	1.32
18:Z2:82:SER:CA	21:i2:1598:G:H2'	1.60	1.32
10:C3:270:THR:HG21	22:A3:69:GLU:CB	1.59	1.32
18:Z1:82:SER:CA	21:i1:1598:G:H2'	1.60	1.31
20:e2:31:ARG:NH1	21:i2:525:A:O3'	1.61	1.31
31:P2:121:ILE:CG1	31:P2:123:TYR:CE2	2.12	1.31
2:U4:19:ARG:CD	2:U4:119:ALA:C	1.96	1.31
10:C5:270:THR:HG21	22:A5:69:GLU:CB	1.59	1.31
18:Z5:82:SER:CA	21:i5:1598:G:H2'	1.60	1.31
36:k6:95:GLN:CG	36:k6:164:ILE:CD1	2.08	1.31
8:f3:105:TYR:CE1	8:f3:131:PHE:CD2	2.16	1.31
8:f1:105:TYR:CE1	8:f1:131:PHE:CD2	2.16	1.31
31:P1:121:ILE:CG1	31:P1:123:TYR:CE2	2.12	1.31
10:C4:270:THR:HG21	22:A4:69:GLU:CB	1.59	1.31
8:f5:86:THR:HG23	21:i5:1269:G:OP2	1.23	1.31
8:f6:105:TYR:OH	8:f6:131:PHE:HB3	1.17	1.31
21:i6:1175:G:OP2	35:j6:21:ARG:CZ	1.78	1.31
20:e1:45:VAL:CG1	21:i1:535:G:C3'	2.01	1.31
8:f2:105:TYR:CE1	8:f2:131:PHE:CD2	2.16	1.31
11:G2:141:ILE:CG1	11:G2:144:LEU:CD2	1.87	1.31
8:f4:87:THR:HG21	8:f4:90:LYS:NZ	1.42	1.31
8:f4:105:TYR:OH	8:f4:131:PHE:HB3	1.17	1.31
20:e4:45:VAL:HG21	21:i4:535:G:C5'	1.60	1.31
10:C6:270:THR:HG21	22:A6:69:GLU:CB	1.59	1.31
31:P6:96:VAL:CG2	31:P6:116:LEU:HD12	1.51	1.31
31:P6:121:ILE:CG1	31:P6:123:TYR:CE2	2.12	1.31
21:i2:969:U:C2'	28:I4:196:GLU:OE1	1.72	1.31
18:Z3:82:SER:CA	21:i3:1598:G:H2'	1.60	1.31
18:Z4:82:SER:CA	21:i4:1598:G:H2'	1.60	1.30
21:i4:693:A:C2	21:i4:738:C:O2'	1.70	1.30
21:i6:1849:G:C5	37:l6:149:ALA:CB	2.13	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D4:67:ARG:HD2	29:K4:96:ARG:NH2	1.47	1.30
2:U5:17:ILE:HG21	2:U5:95:SER:N	1.40	1.30
13:M1:36:ARG:CZ	21:i1:1310:U:C6	2.15	1.30
2:U2:17:ILE:HG21	2:U2:95:SER:N	1.40	1.30
21:i4:1183:A:P	35:j4:15:ARG:NH1	2.03	1.30
31:P4:121:ILE:CG1	31:P4:123:TYR:CE2	2.12	1.30
8:f1:105:TYR:CZ	8:f1:131:PHE:CD2	2.20	1.30
22:A1:89:LYS:HZ1	33:R1:82:ASP:CG	1.40	1.30
30:L1:121:GLN:HG3	30:L1:153:LYS:CE	1.61	1.30
14:N2:133:ARG:CD	30:L2:152:LYS:HE3	1.58	1.30
32:Q2:4:LYS:NZ	32:Q2:99:TYR:HA	1.46	1.30
8:f3:105:TYR:CZ	8:f3:131:PHE:CD2	2.20	1.30
22:A3:89:LYS:NZ	33:R3:82:ASP:CG	1.90	1.30
11:G4:141:ILE:CG1	11:G4:144:LEU:CD2	1.87	1.30
32:Q5:4:LYS:NZ	32:Q5:99:TYR:HA	1.46	1.30
8:f5:105:TYR:CZ	8:f5:131:PHE:CD2	2.20	1.30
22:A1:89:LYS:NZ	33:R1:82:ASP:CG	1.89	1.29
8:f2:105:TYR:CZ	8:f2:131:PHE:CD2	2.20	1.29
13:M2:36:ARG:CZ	21:i2:1310:U:C6	2.15	1.29
8:f3:93:HIS:CB	21:i3:1304:U:H5'	1.62	1.29
13:M3:36:ARG:CZ	21:i3:1310:U:C6	2.15	1.29
8:f4:93:HIS:CB	21:i4:1304:U:H5'	1.62	1.29
20:e4:45:VAL:CG1	21:i4:534:G:O2'	1.80	1.29
21:i5:1174:U:H5''	35:j5:21:ARG:NH2	1.45	1.29
13:M6:36:ARG:CZ	21:i6:1310:U:C6	2.15	1.29
22:A6:89:LYS:NZ	33:R6:82:ASP:CG	1.89	1.29
36:k4:83:ARG:NH2	36:k4:175:TRP:CD2	1.99	1.29
37:l4:115:VAL:CG1	37:l4:116:THR:H	1.45	1.29
34:S2:108:ARG:HH22	21:i4:1773:C:C1'	1.44	1.29
28:I3:207:GLY:C	36:k1:12:SER:OG	1.71	1.29
21:i4:1849:G:C5'	37:l4:146:ARG:NH2	1.96	1.29
37:l1:150:GLN:O	37:l1:151:LYS:HG2	1.12	1.29
32:Q1:4:LYS:NZ	32:Q1:99:TYR:HA	1.46	1.29
8:f2:93:HIS:CB	21:i2:1304:U:H5'	1.62	1.29
22:A2:89:LYS:NZ	33:R2:82:ASP:CG	1.89	1.29
8:f3:99:LYS:CG	21:i3:1285:G:H21	1.25	1.29
31:P3:96:VAL:CG2	31:P3:116:LEU:HD12	1.52	1.29
32:Q5:4:LYS:HZ1	32:Q5:99:TYR:CA	1.46	1.29
37:l1:178:ILE:CD1	37:l1:190:ILE:HG21	1.57	1.29
37:l2:128:VAL:CG1	37:l2:166:ILE:H	1.42	1.29
37:l4:128:VAL:CG2	37:l4:166:ILE:O	1.81	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f1:93:HIS:CB	21:i1:1304:U:H5'	1.62	1.29
22:A4:89:LYS:NZ	33:R4:82:ASP:CG	1.90	1.29
37:l5:128:VAL:HG22	37:l5:166:ILE:O	1.15	1.29
21:i1:1751:C:N4	21:i1:1781:A:C2	2.00	1.29
30:L1:30:LYS:CE	23:B6:21:VAL:O	1.79	1.29
12:J2:125:HIS:CB	21:i2:526:A:O2'	1.81	1.29
22:A2:211:GLU:CG	33:R2:81:ARG:NH2	1.95	1.29
23:B2:21:VAL:HG21	30:L4:31:GLU:O	1.29	1.29
2:U6:17:ILE:HG21	2:U6:94:PRO:CA	1.62	1.29
8:f6:105:TYR:CZ	8:f6:131:PHE:CD2	2.20	1.29
37:l1:128:VAL:CG2	37:l1:166:ILE:O	1.81	1.29
37:l6:128:VAL:CG2	37:l6:166:ILE:O	1.81	1.29
18:Z3:70:PRO:CB	18:Z3:88:LEU:HD11	1.63	1.28
20:e4:25:LYS:CD	21:i4:554:A:OP1	1.80	1.28
31:P6:98:ASN:O	31:P6:122:THR:HG21	1.26	1.28
2:U1:17:ILE:HG21	2:U1:94:PRO:CA	1.63	1.28
2:U2:19:ARG:CD	2:U2:119:ALA:C	1.96	1.28
18:Z2:70:PRO:CB	18:Z2:88:LEU:HD11	1.63	1.28
32:Q3:4:LYS:HZ1	32:Q3:99:TYR:CA	1.46	1.28
8:f4:95:ARG:HE	21:i4:1289:U:C5'	1.46	1.28
22:A6:211:GLU:CG	33:R6:81:ARG:NH2	1.95	1.28
36:k2:95:GLN:CB	36:k2:134:ILE:CD1	2.10	1.28
36:k4:83:ARG:NH2	36:k4:175:TRP:CG	1.98	1.28
37:l3:128:VAL:HG22	37:l3:166:ILE:O	1.16	1.28
37:l6:128:VAL:CG1	37:l6:166:ILE:H	1.42	1.28
21:i1:688:U:H1'	21:i1:689:U:OP2	1.10	1.28
21:i1:1852:C:OP2	35:j1:1:MET:HB2	1.31	1.28
8:f2:95:ARG:HE	21:i2:1289:U:C5'	1.46	1.28
8:f3:95:ARG:HE	21:i3:1289:U:C5'	1.47	1.28
13:M4:36:ARG:CZ	21:i4:1310:U:C6	2.15	1.28
22:A4:211:GLU:CG	33:R4:81:ARG:NH2	1.95	1.28
24:D5:67:ARG:HD2	29:K5:96:ARG:NH2	1.47	1.28
10:C6:279:ARG:O	10:C6:280:VAL:HG12	1.22	1.28
36:k2:94:HIS:HA	36:k2:133:ALA:O	1.26	1.28
36:k3:94:HIS:HA	36:k3:133:ALA:O	1.23	1.28
37:l4:128:VAL:HG22	37:l4:166:ILE:O	1.16	1.28
37:l5:115:VAL:CG1	37:l5:116:THR:H	1.45	1.28
17:Y1:113:ARG:NH1	8:f2:111:ASN:HA	1.45	1.28
31:P1:96:VAL:CG2	31:P1:116:LEU:HD12	1.52	1.28
10:C3:279:ARG:O	10:C3:280:VAL:HG12	1.22	1.28
31:P3:12:PHE:HB2	21:i6:1763:G:C4'	1.63	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1300:U:C2'	31:P5:51:ARG:NH1	1.97	1.28
21:i6:1300:U:H2'	31:P6:51:ARG:NH1	1.49	1.28
32:Q6:4:LYS:NZ	32:Q6:99:TYR:HA	1.46	1.28
22:A3:211:GLU:CG	33:R3:81:ARG:NH2	1.95	1.28
8:f4:105:TYR:CZ	8:f4:131:PHE:CD2	2.20	1.28
21:i4:1172:U:H4'	35:j4:10:MET:CE	1.64	1.28
26:F4:184:SER:CB	21:i5:202:G:OP2	1.81	1.28
28:I4:196:GLU:O	28:I4:200:ARG:HG3	1.27	1.28
13:M5:36:ARG:CZ	21:i5:1310:U:C6	2.15	1.28
21:i6:1848:U:C5'	37:l6:146:ARG:HH12	1.47	1.28
37:l2:128:VAL:CG2	37:l2:166:ILE:O	1.81	1.28
8:f1:95:ARG:HE	21:i1:1289:U:C5'	1.46	1.27
21:i2:1300:U:H2'	31:P2:51:ARG:NH1	1.49	1.27
22:A2:89:LYS:HZ1	33:R2:82:ASP:CG	1.42	1.27
31:P2:98:ASN:O	31:P2:122:THR:HG21	1.26	1.27
2:U3:17:ILE:HG21	2:U3:94:PRO:CA	1.62	1.27
31:P4:98:ASN:O	31:P4:122:THR:HG21	1.26	1.27
32:Q4:4:LYS:HZ1	32:Q4:99:TYR:CA	1.46	1.27
22:A5:89:LYS:NZ	33:R5:82:ASP:CG	1.90	1.27
8:f6:95:ARG:HE	21:i6:1289:U:C5'	1.46	1.27
10:C6:121:ARG:NH2	21:i6:1347:U:OP1	1.64	1.27
21:i6:368:U:N3	36:k3:109:ALA:CB	1.95	1.27
36:k5:82:LEU:CD1	36:k5:169:TYR:C	2.04	1.27
8:f1:86:THR:HG23	21:i1:1269:G:OP2	1.23	1.27
2:U2:17:ILE:HG21	2:U2:94:PRO:CA	1.62	1.27
32:Q3:4:LYS:NZ	32:Q3:99:TYR:HA	1.46	1.27
18:Z4:70:PRO:CB	18:Z4:88:LEU:HD11	1.63	1.27
8:f6:93:HIS:CB	21:i6:1304:U:H5'	1.62	1.27
21:i6:368:U:O2	36:k3:109:ALA:HB2	1.22	1.27
8:f1:105:TYR:OH	8:f1:131:PHE:HB3	1.17	1.27
8:f3:86:THR:HG23	21:i3:1269:G:OP2	1.23	1.27
21:i3:556:U:H5'	21:i3:589:G:OP2	1.24	1.27
21:i3:1377:U:OP2	22:A3:102:ARG:NE	1.62	1.27
18:Z5:70:PRO:CB	18:Z5:88:LEU:HD11	1.63	1.27
21:i6:1300:U:C2'	31:P6:51:ARG:NH1	1.97	1.27
37:l3:128:VAL:CG2	37:l3:166:ILE:O	1.81	1.27
8:f3:105:TYR:OH	8:f3:131:PHE:HB3	1.17	1.27
22:A5:211:GLU:CG	33:R5:81:ARG:NH2	1.95	1.27
31:P5:41:GLN:HB3	31:P5:84:ILE:CD1	1.64	1.27
13:M6:14:VAL:CG1	13:M6:127:TYR:CE1	2.18	1.27
36:k6:94:HIS:CA	36:k6:133:ALA:O	1.83	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A1:211:GLU:CG	33:R1:81:ARG:NH2	1.95	1.27
28:I1:196:GLU:O	28:I1:200:ARG:HG3	1.32	1.27
32:Q1:4:LYS:HZ1	32:Q1:99:TYR:CA	1.48	1.27
21:i3:688:U:H1'	21:i3:689:U:OP2	1.14	1.27
8:f5:93:HIS:CB	21:i5:1304:U:H5'	1.62	1.27
13:M5:27:ILE:HG23	29:K5:84:HIS:CE1	1.70	1.27
36:k4:94:HIS:HA	36:k4:133:ALA:O	1.19	1.27
36:k5:82:LEU:HD11	36:k5:169:TYR:CA	1.62	1.27
36:k5:95:GLN:CB	36:k5:134:ILE:CD1	2.11	1.27
37:l2:115:VAL:CG1	37:l2:116:THR:H	1.45	1.27
37:l3:115:VAL:CG1	37:l3:116:THR:H	1.45	1.27
37:l3:150:GLN:O	37:l3:151:LYS:HG2	1.12	1.27
21:i1:12:U:H1'	21:i1:1357:A:C1'	1.62	1.26
21:i1:1300:U:C2'	31:P1:51:ARG:NH1	1.97	1.26
28:I1:200:ARG:NH2	21:i6:970:G:OP1	1.65	1.26
23:B2:21:VAL:C	30:L4:31:GLU:OE1	1.67	1.26
24:D2:67:ARG:HD2	29:K2:96:ARG:NH2	1.47	1.26
31:P3:98:ASN:O	31:P3:122:THR:HG21	1.26	1.26
2:U5:17:ILE:HG21	2:U5:94:PRO:CA	1.62	1.26
10:C5:279:ARG:O	10:C5:280:VAL:HG12	1.22	1.26
36:k6:94:HIS:HA	36:k6:133:ALA:O	1.32	1.26
18:Z1:70:PRO:CB	18:Z1:88:LEU:HD11	1.63	1.26
21:i1:1300:U:H2'	31:P1:51:ARG:NH1	1.49	1.26
31:P1:98:ASN:O	31:P1:122:THR:HG21	1.26	1.26
10:C2:279:ARG:O	10:C2:280:VAL:HG12	1.23	1.26
21:i2:1175:G:OP2	35:j2:21:ARG:NH2	1.66	1.26
4:X3:61:GLN:OE1	21:i3:1824:A:C8	1.89	1.26
24:D3:67:ARG:HD2	29:K3:96:ARG:NH2	1.47	1.26
18:Z6:70:PRO:CB	18:Z6:88:LEU:HD11	1.63	1.26
36:k4:83:ARG:NH2	36:k4:175:TRP:CD1	2.02	1.26
37:l1:128:VAL:HG13	37:l1:166:ILE:N	1.37	1.26
37:l5:128:VAL:CG2	37:l5:166:ILE:O	1.81	1.26
24:D1:67:ARG:HD2	29:K1:96:ARG:NH2	1.47	1.26
2:U4:19:ARG:HD2	2:U4:119:ALA:C	1.51	1.26
22:A4:89:LYS:HZ1	33:R4:82:ASP:CG	1.42	1.26
32:Q4:4:LYS:NZ	32:Q4:99:TYR:HA	1.46	1.26
21:i5:61:A:H5'	21:i5:317:C:O2'	1.30	1.26
24:D6:67:ARG:HD2	29:K6:96:ARG:NH2	1.47	1.26
36:k3:2:PHE:CB	36:k3:168:HIS:CE1	2.17	1.26
23:B2:22:VAL:HG23	30:L4:31:GLU:OE2	1.13	1.26
32:Q2:4:LYS:HZ1	32:Q2:99:TYR:CA	1.49	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f3:80:ARG:CD	21:i3:1509:U:H3	1.47	1.26
13:M3:27:ILE:HG23	29:K3:84:HIS:CE1	1.70	1.26
8:f5:95:ARG:HE	21:i5:1289:U:C5'	1.46	1.26
14:N6:133:ARG:NH1	30:L6:152:LYS:HB3	1.46	1.26
21:i1:1751:C:C5	21:i1:1782:G:O6	1.88	1.26
21:i2:557:U:C2'	21:i2:558:G:C8	2.17	1.26
2:U3:19:ARG:CD	2:U3:119:ALA:C	1.96	1.26
21:i3:1843:G:OP2	35:j3:4:LYS:HD3	1.18	1.26
2:U4:17:ILE:HG21	2:U4:94:PRO:CA	1.62	1.26
21:i5:141:A:H2	21:i5:315:C:OP1	1.17	1.26
31:P5:98:ASN:O	31:P5:122:THR:HG21	1.26	1.26
37:l2:128:VAL:HG22	37:l2:166:ILE:O	1.16	1.26
8:f1:80:ARG:CD	21:i1:1509:U:H3	1.49	1.25
2:U5:19:ARG:CD	2:U5:119:ALA:C	1.96	1.25
13:M6:27:ILE:HG23	29:K6:84:HIS:CE1	1.70	1.25
36:k4:83:ARG:NH2	36:k4:175:TRP:CE2	2.04	1.25
13:M1:14:VAL:CG1	13:M1:127:TYR:CE1	2.18	1.25
8:f2:105:TYR:OH	8:f2:131:PHE:HB3	1.17	1.25
13:M6:40:LYS:NZ	21:i6:1310:U:C5'	1.99	1.25
14:N6:133:ARG:HH11	30:L6:152:LYS:CB	1.47	1.25
37:l6:128:VAL:HG22	37:l6:166:ILE:O	1.16	1.25
13:M1:27:ILE:HG23	29:K1:84:HIS:CE1	1.70	1.25
13:M2:27:ILE:HG23	29:K2:84:HIS:CE1	1.70	1.25
13:M3:14:VAL:CG1	13:M3:127:TYR:CE1	2.18	1.25
13:M4:40:LYS:NZ	21:i4:1310:U:C5'	1.99	1.25
21:i4:316:G:N1	21:i4:335:G:N1	1.85	1.25
13:M5:14:VAL:CG1	13:M5:127:TYR:CE1	2.18	1.25
20:e5:45:VAL:HG21	21:i5:535:G:O4'	1.09	1.25
31:P5:96:VAL:CG2	31:P5:116:LEU:HD12	1.52	1.25
21:i6:1351:G:C6	21:i6:1352:G:C6	2.24	1.25
21:i6:1751:C:C5	21:i6:1781:A:H2	1.55	1.25
36:k6:36:ILE:N	36:k6:91:ILE:HG22	1.51	1.25
37:l4:150:GLN:O	37:l4:151:LYS:HG2	1.12	1.25
37:l5:128:VAL:CG1	37:l5:166:ILE:H	1.42	1.25
13:M2:36:ARG:NH2	21:i2:1310:U:C6	2.05	1.25
14:N3:129:TYR:O	14:N3:134:VAL:CG2	1.82	1.25
2:U4:17:ILE:HG21	2:U4:95:SER:N	1.40	1.25
13:M4:14:VAL:CG1	13:M4:127:TYR:CE1	2.18	1.25
21:i4:692:G:O5'	21:i4:734:C:N4	1.68	1.25
11:G5:183:ARG:NH1	21:i5:317:C:OP1	1.70	1.25
8:f6:86:THR:HG23	21:i6:1269:G:OP2	1.23	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:2:PHE:HB2	36:k1:168:HIS:CE1	1.72	1.25
36:k2:108:GLY:O	36:k2:166:ASN:ND2	1.69	1.25
21:i2:732:U:H1'	21:i2:733:C:OP1	1.37	1.25
31:P2:119:PHE:CD1	34:S2:119:ALA:HB1	1.72	1.25
14:N3:129:TYR:O	14:N3:134:VAL:HG22	1.11	1.25
21:i3:733:C:H41	27:H3:149:ASP:CG	1.43	1.25
20:e4:25:LYS:CE	21:i4:554:A:OP1	1.83	1.25
20:e4:25:LYS:HE2	21:i4:554:A:OP1	1.34	1.25
2:U5:19:ARG:HB3	2:U5:118:ASP:O	1.35	1.25
10:C1:279:ARG:O	10:C1:280:VAL:HG12	1.23	1.24
13:M2:14:VAL:CG1	13:M2:127:TYR:CE1	2.18	1.24
23:B2:22:VAL:CG2	30:L4:31:GLU:OE2	1.84	1.24
13:M3:36:ARG:NH2	21:i3:1310:U:C6	2.05	1.24
13:M4:27:ILE:HG23	29:K4:84:HIS:CE1	1.70	1.24
13:M5:40:LYS:NZ	21:i5:1310:U:C5'	1.99	1.24
26:F6:137:GLN:HB3	26:F6:204:ARG:C	1.58	1.24
36:k3:86:HIS:CE1	36:k3:141:HIS:HB3	1.72	1.24
37:l6:178:ILE:CD1	37:l6:190:ILE:HG21	1.57	1.24
10:C2:145:LYS:CG	21:i2:1348:G:H5'	1.68	1.24
2:U3:19:ARG:HB3	2:U3:118:ASP:O	1.35	1.24
14:N3:129:TYR:CD1	14:N3:134:VAL:HG11	1.73	1.24
21:i4:315:C:N3	21:i4:336:A:C2	2.05	1.24
21:i4:1719:A:O5'	35:j4:24:SER:OG	1.55	1.24
31:P4:121:ILE:HG12	31:P4:123:TYR:CZ	1.72	1.24
21:i6:368:U:C2	36:k3:109:ALA:CB	2.19	1.24
31:P6:119:PHE:CD1	34:S6:119:ALA:HB1	1.72	1.24
13:M1:36:ARG:NH2	21:i1:1310:U:C6	2.05	1.24
33:R1:61:ILE:O	33:R1:73:LEU:HD22	1.36	1.24
13:M2:40:LYS:NZ	21:i2:1310:U:C5'	1.99	1.24
21:i2:1378:A:OP2	22:A2:105:PRO:HG3	1.15	1.24
22:A2:205:ARG:HG3	22:A2:210:ILE:CG2	1.67	1.24
13:M3:14:VAL:HG11	13:M3:127:TYR:CE1	1.73	1.24
10:C4:279:ARG:O	10:C4:280:VAL:HG12	1.23	1.24
23:B4:21:VAL:HA	30:L5:31:GLU:OE2	1.12	1.24
13:M5:36:ARG:NH2	21:i5:1310:U:C6	2.05	1.24
36:k4:33:PHE:CE1	36:k4:92:LEU:CD1	2.18	1.24
37:l4:128:VAL:CG1	37:l4:166:ILE:H	1.42	1.24
22:A1:205:ARG:HG3	22:A1:210:ILE:CG2	1.67	1.24
31:P1:121:ILE:HG12	31:P1:123:TYR:CZ	1.73	1.24
22:A4:205:ARG:HG3	22:A4:210:ILE:CG2	1.67	1.24
8:f5:80:ARG:CD	21:i5:1509:U:N3	1.96	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F5:137:GLN:HB3	26:F5:204:ARG:C	1.62	1.24
31:P5:119:PHE:CD1	34:S5:119:ALA:HB1	1.73	1.24
13:M6:36:ARG:NH2	21:i6:1310:U:C6	2.05	1.24
31:P6:121:ILE:HG12	31:P6:123:TYR:CZ	1.73	1.24
36:k1:86:HIS:CD2	36:k1:141:HIS:HB3	1.71	1.24
21:i1:1849:G:C2	37:l1:149:ALA:O	1.89	1.24
8:f2:86:THR:HG23	21:i2:1269:G:OP2	1.23	1.24
15:O2:66:ARG:HD2	28:I4:125:LYS:CD	1.68	1.24
21:i2:187:G:O2'	21:i2:301:A:P	1.96	1.24
31:P3:119:PHE:CD1	34:S3:119:ALA:HB1	1.72	1.24
36:k1:10:ASN:HD22	36:k1:56:HIS:CE1	1.54	1.24
36:k3:95:GLN:CB	36:k3:134:ILE:CD1	2.15	1.24
37:l1:115:VAL:CG1	37:l1:116:THR:H	1.45	1.24
37:l2:150:GLN:O	37:l2:151:LYS:HG2	1.12	1.24
11:G2:189:ARG:HD2	21:i2:330:G:N7	1.51	1.23
26:F2:137:GLN:HB3	26:F2:204:ARG:C	1.62	1.23
21:i3:1377:U:C5	22:A3:102:ARG:NH1	1.89	1.23
22:A3:205:ARG:HG3	22:A3:210:ILE:CG2	1.67	1.23
21:i4:1173:A:OP1	35:j4:14:LYS:HG2	1.09	1.23
11:G5:190:ARG:NH2	21:i5:332:G:N7	1.86	1.23
31:P5:121:ILE:HG12	31:P5:123:TYR:CZ	1.72	1.23
36:k5:95:GLN:CG	36:k5:164:ILE:CD1	2.16	1.23
37:l3:128:VAL:CG1	37:l3:166:ILE:H	1.42	1.23
8:f1:92:LYS:CB	21:i1:1303:C:O2'	1.87	1.23
13:M1:40:LYS:NZ	21:i1:1310:U:C5'	1.99	1.23
20:e1:39:ASN:HA	20:e1:43:VAL:CG2	1.68	1.23
21:i2:1300:U:C2'	31:P2:51:ARG:NH1	1.97	1.23
31:P2:121:ILE:HG12	31:P2:123:TYR:CZ	1.73	1.23
11:G5:189:ARG:CD	21:i5:330:G:N7	2.01	1.23
21:i5:1377:U:OP2	22:A5:102:ARG:NE	1.70	1.23
21:i6:1236:G:H5''	31:P6:133:ILE:CD1	1.68	1.23
37:l3:178:ILE:CD1	37:l3:190:ILE:HG21	1.58	1.23
31:P1:119:PHE:CD1	34:S1:119:ALA:HB1	1.73	1.23
8:f2:92:LYS:CB	21:i2:1303:C:O2'	1.87	1.23
21:i5:1300:U:H2'	31:P5:51:ARG:NH1	1.49	1.23
22:A5:205:ARG:HG3	22:A5:210:ILE:CG2	1.67	1.23
36:k5:95:GLN:HG3	36:k5:164:ILE:CD1	1.67	1.23
11:G1:143:LYS:HD3	21:i1:1777:G:P	1.78	1.23
31:P2:41:GLN:CB	31:P2:84:ILE:HD13	1.69	1.23
34:S2:108:ARG:NH1	21:i4:1773:C:H3'	1.51	1.23
8:f3:92:LYS:CB	21:i3:1303:C:O2'	1.87	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1751:C:N4	21:i3:1781:A:C2	1.92	1.23
31:P3:121:ILE:HG12	31:P3:123:TYR:CZ	1.73	1.23
26:F4:137:GLN:HB3	26:F4:204:ARG:C	1.62	1.23
20:e5:43:VAL:HG11	21:i5:551:U:O2'	1.14	1.23
36:k2:83:ARG:NH1	36:k2:175:TRP:CZ2	2.06	1.23
37:l5:150:GLN:O	37:l5:151:LYS:HG2	1.12	1.23
26:F1:137:GLN:HB3	26:F1:204:ARG:C	1.62	1.23
2:U2:19:ARG:HB3	2:U2:118:ASP:O	1.35	1.23
11:G2:189:ARG:HD2	21:i2:330:G:C8	1.73	1.23
15:O2:65:ASP:HB3	28:I4:123:ARG:CZ	1.66	1.23
21:i2:1844:U:O4	35:j2:4:LYS:HD2	1.37	1.23
13:M3:40:LYS:NZ	21:i3:1310:U:C5'	1.99	1.23
21:i3:1172:U:C4'	35:j3:10:MET:HE2	1.68	1.23
31:P3:34:MET:O	31:P3:42:ARG:NE	1.70	1.23
8:f4:92:LYS:CB	21:i4:1303:C:O2'	1.87	1.23
20:e4:45:VAL:HG11	21:i4:534:G:O2'	1.34	1.23
21:i4:1300:U:C2'	31:P4:51:ARG:NH1	2.01	1.23
30:L4:121:GLN:CG	30:L4:153:LYS:HE3	1.67	1.23
2:U5:19:ARG:HD2	2:U5:119:ALA:C	1.51	1.23
13:M5:14:VAL:HG11	13:M5:127:TYR:CE1	1.73	1.23
14:N5:129:TYR:O	14:N5:134:VAL:HG22	1.24	1.23
36:k2:83:ARG:HG2	36:k2:175:TRP:CZ3	1.72	1.23
36:k3:86:HIS:NE2	36:k3:141:HIS:HB3	1.50	1.23
10:C1:68:ARG:HD2	10:C1:277:HIS:CG	1.75	1.22
13:M1:14:VAL:HG11	13:M1:127:TYR:CE1	1.72	1.22
22:A1:211:GLU:CG	33:R1:81:ARG:HH22	1.52	1.22
28:I1:196:GLU:OE1	21:i6:969:U:C2'	1.83	1.22
23:B2:21:VAL:CG2	30:L4:31:GLU:O	1.80	1.22
11:G3:190:ARG:NH2	21:i3:333:G:O6	1.70	1.22
10:C4:68:ARG:HD2	10:C4:277:HIS:CG	1.75	1.22
22:A6:211:GLU:CG	33:R6:81:ARG:HH22	1.52	1.22
36:k4:88:TYR:O	36:k4:91:ILE:HG12	1.39	1.22
21:i1:11:A:N3	21:i1:1357:A:O2'	1.66	1.22
8:f2:80:ARG:CD	21:i2:1509:U:H3	1.50	1.22
13:M4:14:VAL:HG11	13:M4:127:TYR:CE1	1.72	1.22
21:i5:557:U:H2'	21:i5:558:G:C8	1.73	1.22
21:i6:1848:U:H5''	37:l6:146:ARG:NH1	1.54	1.22
22:A6:205:ARG:HG3	22:A6:210:ILE:CG2	1.67	1.22
32:Q6:4:LYS:HZ1	32:Q6:99:TYR:CA	1.51	1.22
36:k4:83:ARG:CZ	36:k4:175:TRP:CD2	2.20	1.22
37:l6:115:VAL:CG1	37:l6:116:THR:H	1.45	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:19:ARG:HB3	2:U1:118:ASP:O	1.35	1.22
21:i1:1300:U:N1	31:P1:51:ARG:NH1	1.88	1.22
21:i3:1300:U:N1	31:P3:51:ARG:NH1	1.88	1.22
33:R3:61:ILE:O	33:R3:73:LEU:HD13	1.38	1.22
31:P4:119:PHE:CD1	34:S4:119:ALA:HB1	1.73	1.22
11:G5:189:ARG:HD2	21:i5:330:G:C8	1.74	1.22
21:i5:61:A:C5'	21:i5:317:C:O2'	1.86	1.22
21:i6:316:G:N2	21:i6:335:G:C6	2.07	1.22
20:e2:45:VAL:CG2	21:i2:535:G:C5'	2.17	1.22
21:i3:1300:U:C2'	31:P3:51:ARG:NH1	1.97	1.22
26:F3:137:GLN:HB3	26:F3:204:ARG:C	1.62	1.22
21:i5:1718:G:H5''	35:j5:24:SER:OG	1.06	1.22
22:A5:211:GLU:CG	33:R5:81:ARG:HH22	1.52	1.22
10:C6:142:LYS:CG	10:C6:157:LEU:HD13	1.67	1.22
36:k1:95:GLN:HG3	36:k1:164:ILE:CD1	1.68	1.22
21:i1:696:G:H22	21:i1:734:C:C5'	1.53	1.22
21:i1:1174:U:H5''	35:j1:21:ARG:NH2	1.53	1.22
10:C2:68:ARG:HD2	10:C2:277:HIS:CG	1.75	1.22
21:i2:337:C:C2'	21:i2:338:G:H4'	1.69	1.22
21:i2:691:G:H1'	27:H2:182:GLY:CA	1.68	1.22
13:M4:36:ARG:NH2	21:i4:1310:U:C6	2.05	1.22
8:f5:92:LYS:CB	21:i5:1303:C:O2'	1.87	1.22
20:e5:39:ASN:HB3	21:i5:552:G:OP1	1.04	1.22
21:i5:1300:U:N1	31:P5:51:ARG:NH1	1.88	1.22
37:l6:150:GLN:O	37:l6:151:LYS:HG2	1.12	1.22
10:C1:64:THR:O	10:C1:277:HIS:HE1	1.22	1.21
11:G2:189:ARG:NH1	21:i2:330:G:O6	1.73	1.21
21:i6:1175:G:OP2	35:j6:21:ARG:NH2	1.73	1.21
21:i6:1300:U:N1	31:P6:51:ARG:NH1	1.88	1.21
37:l4:178:ILE:HB	37:l4:190:ILE:CD1	1.70	1.21
21:i1:1377:U:C5	22:A1:102:ARG:NH1	1.81	1.21
15:O4:63:LYS:NZ	28:I5:163:GLU:HG3	1.52	1.21
8:f6:92:LYS:CB	21:i6:1303:C:O2'	1.87	1.21
13:M6:14:VAL:HG11	13:M6:127:TYR:CE1	1.72	1.21
37:l2:178:ILE:HB	37:l2:190:ILE:CD1	1.71	1.21
37:l5:178:ILE:HB	37:l5:190:ILE:CD1	1.71	1.21
10:C2:68:ARG:HH22	10:C2:276:THR:CB	1.54	1.21
21:i2:1300:U:N1	31:P2:51:ARG:NH1	1.88	1.21
21:i3:556:U:C5'	21:i3:589:G:OP2	1.86	1.21
10:C4:266:TYR:O	22:A4:120:ARG:NH1	1.73	1.21
10:C4:273:LEU:CB	10:C4:280:VAL:CG1	2.19	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P4:41:GLN:HB3	31:P4:84:ILE:CD1	1.69	1.21
14:N5:129:TYR:CA	14:N5:134:VAL:HG21	1.68	1.21
21:i5:557:U:C2'	21:i5:558:G:C8	2.24	1.21
2:U6:19:ARG:HD2	2:U6:119:ALA:O	1.38	1.21
21:i6:1175:G:P	35:j6:21:ARG:HH12	1.62	1.21
10:C5:266:TYR:O	22:A5:120:ARG:NH1	1.73	1.21
36:k1:11:VAL:CG1	36:k1:180:TYR:CZ	2.22	1.21
36:k2:86:HIS:CD2	36:k2:141:HIS:HB3	1.74	1.21
37:l5:128:VAL:HG13	37:l5:166:ILE:CA	1.71	1.21
10:C1:273:LEU:CB	10:C1:280:VAL:CG1	2.19	1.21
11:G1:143:LYS:HD3	21:i1:1776:G:O3'	1.10	1.21
15:O1:66:ARG:NH2	28:I3:125:LYS:NZ	1.88	1.21
21:i2:1615:U:OP2	31:P2:43:ARG:CZ	1.88	1.21
31:P6:98:ASN:O	31:P6:122:THR:CG2	1.89	1.21
37:l3:178:ILE:HB	37:l3:190:ILE:CD1	1.71	1.21
21:i1:1172:U:C4'	35:j1:10:MET:HE3	1.71	1.20
21:i2:1378:A:OP1	22:A2:132:GLN:NE2	1.72	1.20
31:P2:98:ASN:O	31:P2:122:THR:CG2	1.89	1.20
10:C3:68:ARG:HH22	10:C3:276:THR:CB	1.54	1.20
21:i3:1377:U:OP2	22:A3:102:ARG:CD	1.88	1.20
10:C4:68:ARG:HH22	10:C4:276:THR:CB	1.53	1.20
16:W4:111:MET:HE1	16:W4:119:LYS:CD	1.69	1.20
10:C5:68:ARG:HD2	10:C5:277:HIS:CG	1.75	1.20
2:U6:19:ARG:HB3	2:U6:118:ASP:O	1.35	1.20
10:C6:68:ARG:HD2	10:C6:277:HIS:CG	1.75	1.20
14:N6:133:ARG:NH2	30:L6:154:GLN:HB2	1.53	1.20
21:i6:1842:C:OP1	35:j6:3:ALA:CB	1.89	1.20
36:k2:108:GLY:C	36:k2:166:ASN:ND2	1.99	1.20
2:U1:17:ILE:HG21	2:U1:94:PRO:C	1.65	1.20
15:O1:66:ARG:NH2	28:I3:125:LYS:HZ2	1.34	1.20
10:C2:68:ARG:HH11	10:C2:277:HIS:CB	1.43	1.20
33:R2:21:TYR:CG	33:R2:71:ILE:HD11	1.74	1.20
18:Z3:85:ARG:NH1	21:i3:1596:U:C5	2.09	1.20
31:P3:98:ASN:O	31:P3:122:THR:CG2	1.89	1.20
10:C4:270:THR:CG2	22:A4:69:GLU:HB2	1.71	1.20
31:P4:98:ASN:O	31:P4:122:THR:CG2	1.89	1.20
2:U5:17:ILE:HG21	2:U5:94:PRO:C	1.66	1.20
21:i5:1849:G:H5''	37:l5:146:ARG:NH2	1.35	1.20
28:I5:196:GLU:O	28:I5:200:ARG:HG3	1.32	1.20
31:P5:98:ASN:O	31:P5:122:THR:CG2	1.89	1.20
37:l2:178:ILE:CD1	37:l2:190:ILE:HG21	1.57	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:68:ARG:HH11	10:C1:277:HIS:CB	1.43	1.20
21:i1:1378:A:OP1	22:A1:132:GLN:NE2	1.75	1.20
26:F1:126:THR:O	26:F1:127:ARG:HG3	1.38	1.20
13:M2:14:VAL:HG11	13:M2:127:TYR:CE1	1.72	1.20
2:U3:19:ARG:HD2	2:U3:119:ALA:O	1.39	1.20
10:C3:64:THR:O	10:C3:277:HIS:HE1	1.22	1.20
21:i4:1300:U:H2'	31:P4:51:ARG:NH1	1.53	1.20
10:C6:68:ARG:HH22	10:C6:276:THR:CB	1.53	1.20
10:C6:266:TYR:O	22:A6:120:ARG:NH1	1.73	1.20
36:k4:2:PHE:CB	36:k4:168:HIS:HE1	1.26	1.20
37:l6:128:VAL:HG13	37:l6:166:ILE:CA	1.71	1.20
10:C2:64:THR:O	10:C2:277:HIS:HE1	1.22	1.20
10:C3:68:ARG:HD2	10:C3:277:HIS:CG	1.75	1.20
21:i3:733:C:N4	27:H3:149:ASP:CG	1.99	1.20
21:i4:1182:A:O3'	35:j4:15:ARG:NH1	1.68	1.20
10:C6:273:LEU:CB	10:C6:280:VAL:CG1	2.19	1.20
37:l1:128:VAL:CG1	37:l1:166:ILE:H	1.42	1.20
37:l1:178:ILE:HB	37:l1:190:ILE:CD1	1.70	1.20
37:l5:178:ILE:CD1	37:l5:190:ILE:HG21	1.57	1.20
20:e1:43:VAL:HG13	21:i1:550:C:O3'	1.37	1.20
2:U2:17:ILE:HG21	2:U2:94:PRO:C	1.66	1.20
18:Z2:85:ARG:NH1	21:i2:1596:U:C5	2.10	1.20
21:i2:337:C:H2'	21:i2:338:G:C4'	1.70	1.20
2:U4:17:ILE:HG21	2:U4:94:PRO:C	1.65	1.20
18:Z4:82:SER:HA	21:i4:1598:G:C8	1.77	1.20
10:C5:270:THR:CG2	22:A5:69:GLU:HB2	1.71	1.20
10:C6:68:ARG:NH2	10:C6:276:THR:HB	1.57	1.20
21:i6:1849:G:C2	37:l6:149:ALA:O	1.94	1.20
22:A6:89:LYS:HZ1	33:R6:82:ASP:CG	1.43	1.20
36:k1:94:HIS:HA	36:k1:133:ALA:O	1.04	1.20
36:k3:145:VAL:O	36:k3:167:ILE:HB	1.39	1.20
13:M1:14:VAL:CG1	13:M1:127:TYR:HE1	1.52	1.19
15:O1:66:ARG:NH2	28:I3:125:LYS:CE	2.04	1.19
28:I1:200:ARG:CZ	21:i6:970:G:OP1	1.89	1.19
10:C3:270:THR:CG2	22:A3:69:GLU:HB2	1.71	1.19
2:U4:19:ARG:HD2	2:U4:119:ALA:O	1.38	1.19
11:G4:143:LYS:CG	21:i4:1778:C:H5'	1.72	1.19
22:A4:211:GLU:CG	33:R4:81:ARG:HH22	1.52	1.19
10:C5:68:ARG:NH2	10:C5:276:THR:HB	1.58	1.19
10:C5:273:LEU:CB	10:C5:280:VAL:CG1	2.19	1.19
21:i5:1172:U:C5'	35:j5:14:LYS:HD3	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f6:92:LYS:HB3	21:i6:1303:C:O2'	1.02	1.19
26:F6:126:THR:O	26:F6:127:ARG:HG3	1.38	1.19
36:k3:86:HIS:CD2	36:k3:141:HIS:HB3	1.76	1.19
21:i4:1300:U:N1	31:P4:51:ARG:NH1	1.88	1.19
31:P5:41:GLN:CB	31:P5:84:ILE:HD13	1.71	1.19
10:C6:64:THR:O	10:C6:277:HIS:HE1	1.22	1.19
21:i6:1236:G:O6	34:S6:137:LYS:HE3	1.41	1.19
31:P1:98:ASN:O	31:P1:122:THR:CG2	1.89	1.19
8:f3:92:LYS:HB3	21:i3:1303:C:O2'	1.02	1.19
34:S3:108:ARG:HH22	21:i6:1773:C:H3'	1.05	1.19
2:U4:19:ARG:HB3	2:U4:118:ASP:O	1.35	1.19
10:C5:68:ARG:HH22	10:C5:276:THR:CB	1.54	1.19
14:N6:133:ARG:HD2	30:L6:152:LYS:CB	1.71	1.19
21:i6:628:A:C4	24:D6:179:GLN:NE2	2.09	1.19
21:i6:1351:G:H2'	21:i6:1352:G:C8	1.77	1.19
37:l1:128:VAL:HG13	37:l1:166:ILE:CA	1.71	1.19
37:l2:128:VAL:HG13	37:l2:166:ILE:CA	1.71	1.19
37:l3:128:VAL:HG13	37:l3:166:ILE:CA	1.71	1.19
2:U1:19:ARG:HD2	2:U1:119:ALA:O	1.39	1.19
21:i1:1172:U:C4'	35:j1:10:MET:CE	2.20	1.19
28:I1:158:ILE:HD11	15:O6:63:LYS:NZ	1.54	1.19
2:U2:19:ARG:HD2	2:U2:119:ALA:O	1.39	1.19
10:C3:273:LEU:CB	10:C3:280:VAL:CG1	2.19	1.19
21:i3:1829:G:OP1	37:l3:126:LYS:HE3	1.37	1.19
21:i4:1615:U:OP2	31:P4:43:ARG:CZ	1.91	1.19
37:l4:128:VAL:HG13	37:l4:166:ILE:CA	1.71	1.19
21:i1:52:G:OP2	8:f2:110:GLU:HG2	1.43	1.19
2:U3:17:ILE:HG21	2:U3:94:PRO:C	1.65	1.19
14:N3:129:TYR:C	14:N3:134:VAL:CG2	2.16	1.19
13:M4:14:VAL:CG1	13:M4:127:TYR:HE1	1.52	1.19
16:W4:115:GLU:OE2	16:W4:119:LYS:HE3	1.41	1.19
10:C5:64:THR:O	10:C5:277:HIS:HE1	1.22	1.19
26:F5:126:THR:O	26:F5:127:ARG:HG3	1.38	1.19
2:U6:17:ILE:HG21	2:U6:94:PRO:C	1.66	1.19
21:i6:1613:G:OP2	31:P6:39:ALA:CB	1.91	1.19
8:f1:92:LYS:HB3	21:i1:1303:C:O2'	1.02	1.18
10:C1:68:ARG:HH22	10:C1:276:THR:CB	1.54	1.18
10:C1:270:THR:CG2	22:A1:69:GLU:HB2	1.71	1.18
21:i1:12:U:C1'	21:i1:1357:A:H1'	1.71	1.18
21:i2:691:G:C1'	27:H2:182:GLY:HA3	1.71	1.18
10:C6:270:THR:CG2	22:A6:69:GLU:HB2	1.71	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:266:TYR:O	22:A1:120:ARG:NH1	1.73	1.18
30:L1:121:GLN:HB2	30:L1:153:LYS:HD2	1.20	1.18
8:f2:92:LYS:HB3	21:i2:1303:C:O2'	1.02	1.18
10:C2:68:ARG:NH2	10:C2:276:THR:HB	1.57	1.18
10:C2:273:LEU:CB	10:C2:280:VAL:CG1	2.19	1.18
10:C3:266:TYR:O	22:A3:120:ARG:NH1	1.73	1.18
18:Z3:82:SER:HA	21:i3:1598:G:C8	1.77	1.18
26:F3:126:THR:O	26:F3:127:ARG:HG3	1.38	1.18
10:C4:64:THR:O	10:C4:277:HIS:HE1	1.22	1.18
21:i4:1236:G:O6	34:S4:137:LYS:HE3	1.41	1.18
31:P4:119:PHE:CE1	34:S4:119:ALA:CB	2.27	1.18
10:C1:68:ARG:NH2	10:C1:276:THR:HB	1.57	1.18
18:Z1:85:ARG:NH1	21:i1:1596:U:C5	2.10	1.18
8:f3:80:ARG:HD2	21:i3:1509:U:C4	1.78	1.18
18:Z3:82:SER:N	21:i3:1598:G:H2'	1.58	1.18
31:P4:96:VAL:CG2	31:P4:116:LEU:HD12	1.52	1.18
8:f5:80:ARG:HD2	21:i5:1509:U:C4	1.77	1.18
18:Z6:82:SER:HA	21:i6:1598:G:C8	1.77	1.18
31:P6:119:PHE:CE1	34:S6:119:ALA:CB	2.27	1.18
36:k2:94:HIS:CA	36:k2:133:ALA:O	1.89	1.18
36:k4:95:GLN:CG	36:k4:164:ILE:HD12	1.58	1.18
36:k5:94:HIS:HA	36:k5:133:ALA:O	1.29	1.18
37:l2:127:TYR:HB2	37:l2:169:ASP:HB3	1.19	1.18
10:C2:270:THR:CG2	22:A2:69:GLU:HB2	1.71	1.18
18:Z2:82:SER:N	21:i2:1598:G:H2'	1.58	1.18
21:i3:1236:G:O6	34:S3:137:LYS:HE3	1.40	1.18
18:Z4:85:ARG:NH1	21:i4:1596:U:C5	2.09	1.18
27:H4:163:GLN:CG	27:H4:189:PHE:CE2	2.25	1.18
14:N6:133:ARG:CD	30:L6:152:LYS:CB	2.22	1.18
37:l4:178:ILE:CD1	37:l4:190:ILE:HG21	1.57	1.18
18:Z1:82:SER:HA	21:i1:1598:G:C8	1.78	1.18
20:e1:39:ASN:O	20:e1:43:VAL:HB	1.44	1.18
21:i1:688:U:C1'	21:i1:689:U:OP2	1.92	1.18
10:C2:145:LYS:HG3	21:i2:1348:G:C5'	1.74	1.18
13:M2:14:VAL:CG1	13:M2:127:TYR:HE1	1.52	1.18
8:f3:80:ARG:CD	21:i3:1509:U:N3	2.02	1.18
20:e3:45:VAL:HG11	21:i3:535:G:C4'	1.47	1.18
2:U4:17:ILE:HG23	2:U4:95:SER:H	1.08	1.18
10:C4:68:ARG:NH2	10:C4:276:THR:HB	1.57	1.18
18:Z4:82:SER:N	21:i4:1598:G:H2'	1.58	1.18
26:F4:126:THR:O	26:F4:127:ARG:HG3	1.38	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I2:179:GLN:HG3	37:I2:180:GLU:H	1.07	1.18
37:I4:127:TYR:HB2	37:I4:169:ASP:HB3	1.19	1.18
37:I6:178:ILE:HB	37:I6:190:ILE:CD1	1.71	1.18
21:I1:529:A:N1	21:I1:557:U:C2	2.13	1.17
30:L1:121:GLN:CG	30:L1:153:LYS:HE3	1.74	1.17
18:Z2:70:PRO:CG	18:Z2:88:LEU:HD13	1.58	1.17
18:Z2:82:SER:HA	21:I2:1598:G:C8	1.78	1.17
21:I2:61:A:C2	21:I2:334:C:H2'	1.79	1.17
26:F2:126:THR:O	26:F2:127:ARG:HG3	1.38	1.17
15:O3:63:LYS:NZ	28:I6:163:GLU:CB	1.85	1.17
31:P3:119:PHE:CE1	34:S3:119:ALA:CB	2.27	1.17
8:f5:87:THR:CG2	8:f5:90:LYS:CE	2.13	1.17
10:C5:273:LEU:HB2	10:C5:280:VAL:HG13	1.21	1.17
18:Z1:46:ASN:HB3	18:Z1:80:ARG:HA	1.23	1.17
11:G2:189:ARG:CD	21:I2:330:G:N7	2.08	1.17
31:P2:41:GLN:NE2	31:P2:84:ILE:HG23	1.60	1.17
10:C3:68:ARG:NH2	10:C3:276:THR:HB	1.57	1.17
21:I3:1300:U:H2'	31:P3:51:ARG:NH1	1.49	1.17
8:f4:87:THR:CG2	8:f4:90:LYS:CE	2.13	1.17
27:H4:163:GLN:NE2	27:H4:189:PHE:HE2	1.40	1.17
2:U5:19:ARG:HD2	2:U5:119:ALA:O	1.38	1.17
8:f5:95:ARG:HD2	21:I5:1289:U:OP2	1.00	1.17
8:f6:95:ARG:HD2	21:I6:1289:U:OP2	1.00	1.17
10:C6:274:VAL:HG23	10:C6:275:LYS:HD2	1.20	1.17
18:Z6:82:SER:N	21:I6:1598:G:H2'	1.58	1.17
10:C1:64:THR:O	10:C1:277:HIS:CE1	1.98	1.17
11:G1:186:GLN:NE2	21:I1:331:C:C4	2.09	1.17
2:U2:19:ARG:HD2	2:U2:119:ALA:C	1.52	1.17
10:C2:266:TYR:O	22:A2:120:ARG:NH1	1.73	1.17
10:C3:273:LEU:HB2	10:C3:280:VAL:HG13	1.21	1.17
34:S3:108:ARG:NH2	21:I6:1773:C:H3'	1.58	1.17
8:f4:95:ARG:HD2	21:I4:1289:U:OP2	1.00	1.17
31:P4:41:GLN:NE2	31:P4:84:ILE:HG23	1.59	1.17
18:Z5:85:ARG:NH1	21:I5:1596:U:C5	2.09	1.17
21:I5:1236:G:O6	34:S5:137:LYS:HE3	1.41	1.17
8:f6:87:THR:CG2	8:f6:90:LYS:CE	2.13	1.17
36:k3:145:VAL:O	36:k3:167:ILE:CB	1.92	1.17
8:f1:95:ARG:HD2	21:I1:1289:U:OP2	1.00	1.17
4:X2:55:VAL:HB	20:e2:2:VAL:CG1	1.74	1.17
10:C3:64:THR:O	10:C3:277:HIS:CE1	1.97	1.17
18:Z5:82:SER:HA	21:I5:1598:G:C8	1.77	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:64:THR:O	10:C6:277:HIS:CE1	1.98	1.17
14:N6:148:ALA:H	14:N6:149:LEU:HB3	1.07	1.17
18:Z6:85:ARG:NH1	21:i6:1596:U:C5	2.09	1.17
37:l3:178:ILE:HB	37:l3:190:ILE:HD13	1.25	1.17
37:l6:150:GLN:O	37:l6:151:LYS:CG	1.93	1.17
8:f1:95:ARG:CG	21:i1:1289:U:OP2	1.93	1.17
8:f1:105:TYR:HD2	8:f1:106:TYR:CE2	1.63	1.17
30:L1:30:LYS:HE3	23:B6:21:VAL:O	1.03	1.17
31:P1:119:PHE:CE1	34:S1:119:ALA:CB	2.27	1.17
10:C2:64:THR:O	10:C2:277:HIS:CE1	1.98	1.17
11:G2:141:ILE:HG12	11:G2:144:LEU:HD21	1.19	1.17
4:X3:61:GLN:CD	21:i3:1824:A:H8	1.52	1.17
8:f3:87:THR:CG2	8:f3:90:LYS:CE	2.13	1.17
8:f4:95:ARG:CG	21:i4:1289:U:OP2	1.93	1.17
26:F4:182:LYS:CD	21:i5:200:G:OP1	1.79	1.17
8:f5:105:TYR:HD2	8:f5:106:TYR:CE2	1.63	1.17
21:i5:1174:U:C5'	35:j5:21:ARG:NH2	2.06	1.17
21:i6:1175:G:OP2	35:j6:21:ARG:NH1	1.77	1.17
36:k5:95:GLN:N	36:k5:133:ALA:O	1.77	1.17
37:l1:127:TYR:HB2	37:l1:169:ASP:HB3	1.19	1.17
14:N1:148:ALA:H	14:N1:149:LEU:HB3	1.07	1.16
20:e1:31:ARG:NH1	21:i1:526:A:H5'	1.58	1.16
22:A2:211:GLU:CG	33:R2:81:ARG:HH22	1.52	1.16
2:U3:19:ARG:HD2	2:U3:119:ALA:C	1.52	1.16
21:i4:1717:C:O3'	35:j4:21:ARG:NE	1.78	1.16
37:l2:150:GLN:O	37:l2:151:LYS:CG	1.93	1.16
10:C1:273:LEU:CB	10:C1:280:VAL:HG13	1.76	1.16
18:Z1:82:SER:N	21:i1:1598:G:H2'	1.58	1.16
21:i1:1236:G:O6	34:S1:137:LYS:HE3	1.40	1.16
8:f2:87:THR:CG2	8:f2:90:LYS:CE	2.13	1.16
34:S2:108:ARG:NH1	21:i4:1774:C:OP2	1.77	1.16
11:G4:141:ILE:HG12	11:G4:144:LEU:HD21	1.19	1.16
10:C5:274:VAL:HG23	10:C5:275:LYS:HD2	1.20	1.16
14:N5:129:TYR:C	14:N5:134:VAL:CG2	2.17	1.16
21:i5:61:A:C4'	21:i5:317:C:O2'	1.94	1.16
11:G6:143:LYS:HD3	21:i6:1778:C:H5'	1.19	1.16
21:i6:368:U:C2	36:k3:109:ALA:HB1	1.76	1.16
36:k2:83:ARG:CZ	36:k2:175:TRP:CE2	2.27	1.16
36:k3:94:HIS:CA	36:k3:133:ALA:O	1.92	1.16
37:l5:150:GLN:O	37:l5:151:LYS:CG	1.93	1.16
11:G1:141:ILE:CB	11:G1:144:LEU:HD21	1.76	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G2:141:ILE:CB	11:G2:144:LEU:HD21	1.76	1.16
13:M2:27:ILE:CG2	29:K2:84:HIS:CE1	2.29	1.16
4:X3:61:GLN:CD	21:i3:1824:A:C8	2.23	1.16
13:M3:14:VAL:CG1	13:M3:127:TYR:HE1	1.52	1.16
13:M3:27:ILE:CG2	29:K3:84:HIS:CE1	2.29	1.16
20:e3:25:LYS:NZ	21:i3:554:A:OP2	1.79	1.16
21:i3:688:U:C1'	21:i3:689:U:OP2	1.93	1.16
21:i4:692:G:C5'	21:i4:734:C:H42	1.56	1.16
13:M6:14:VAL:CG1	13:M6:127:TYR:HE1	1.52	1.16
36:k1:22:ILE:HG12	36:k1:50:VAL:HG21	1.27	1.16
36:k1:95:GLN:CB	36:k1:134:ILE:CD1	2.22	1.16
36:k4:85:LEU:HD21	36:k4:133:ALA:CB	1.74	1.16
36:k6:22:ILE:HG12	36:k6:50:VAL:HG21	1.27	1.16
37:l6:178:ILE:HB	37:l6:190:ILE:HD13	1.24	1.16
21:i1:529:A:C2	21:i1:557:U:O2	1.96	1.16
21:i1:556:U:C5	21:i1:588:G:H1'	1.79	1.16
31:P1:34:MET:O	31:P1:42:ARG:NE	1.79	1.16
8:f2:105:TYR:HD2	8:f2:106:TYR:CE2	1.63	1.16
22:A2:89:LYS:NZ	33:R2:82:ASP:OD1	1.78	1.16
8:f3:105:TYR:HD2	8:f3:106:TYR:CE2	1.64	1.16
22:A3:89:LYS:NZ	33:R3:82:ASP:OD1	1.78	1.16
8:f4:80:ARG:CD	21:i4:1509:U:N3	1.99	1.16
10:C4:273:LEU:CB	10:C4:280:VAL:HG13	1.76	1.16
8:f5:95:ARG:HG3	21:i5:1289:U:P	1.86	1.16
21:i5:1172:U:H5'	35:j5:14:LYS:CD	1.75	1.16
22:A5:89:LYS:NZ	33:R5:82:ASP:OD1	1.79	1.16
37:l1:150:GLN:O	37:l1:151:LYS:CG	1.93	1.16
37:l3:127:TYR:HB2	37:l3:169:ASP:HB3	1.19	1.16
37:l5:179:GLN:HG3	37:l5:180:GLU:H	1.07	1.16
22:A1:89:LYS:NZ	33:R1:82:ASP:OD1	1.78	1.16
31:P1:12:PHE:HZ	21:i3:1764:G:C4'	1.44	1.16
21:i2:1853:C:N4	35:j2:5:TRP:CZ2	2.14	1.16
8:f4:92:LYS:HB3	21:i4:1303:C:O2'	1.02	1.16
11:G4:141:ILE:CB	11:G4:144:LEU:HD21	1.76	1.16
26:F5:137:GLN:HG2	26:F5:204:ARG:O	1.46	1.16
10:C6:145:LYS:HG3	21:i6:1348:G:C4'	1.74	1.16
11:G6:141:ILE:CB	11:G6:144:LEU:HD21	1.76	1.16
22:A6:89:LYS:NZ	33:R6:82:ASP:OD1	1.78	1.16
37:l4:150:GLN:O	37:l4:151:LYS:CG	1.93	1.16
14:N1:133:ARG:HD2	30:L1:152:LYS:CB	1.76	1.15
10:C2:273:LEU:CB	10:C2:280:VAL:HG13	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F2:137:GLN:HG2	26:F2:204:ARG:O	1.46	1.15
31:P2:119:PHE:CE1	34:S2:119:ALA:CB	2.27	1.15
21:i3:968:U:O4	28:I6:203:LYS:NZ	1.78	1.15
10:C4:274:VAL:HG23	10:C4:275:LYS:HD2	1.20	1.15
13:M4:27:ILE:CG2	29:K4:84:HIS:CE1	2.29	1.15
13:M4:125:GLU:HB3	13:M4:129:LYS:HE3	1.28	1.15
18:Z4:46:ASN:HB3	18:Z4:80:ARG:HA	1.23	1.15
21:i4:316:G:N1	21:i4:335:G:C2	2.15	1.15
31:P5:119:PHE:CE1	34:S5:119:ALA:CB	2.27	1.15
8:f6:105:TYR:HD2	8:f6:106:TYR:CE2	1.63	1.15
36:k4:95:GLN:CB	36:k4:134:ILE:CD1	2.24	1.15
37:l5:127:TYR:HB2	37:l5:169:ASP:HB3	1.19	1.15
8:f1:95:ARG:HG3	21:i1:1289:U:P	1.85	1.15
10:C1:273:LEU:HB2	10:C1:280:VAL:HG13	1.21	1.15
21:i1:528:A:C2	21:i1:558:G:C2	2.34	1.15
2:U2:19:ARG:HD3	2:U2:119:ALA:HB1	1.23	1.15
8:f2:95:ARG:CG	21:i2:1289:U:OP2	1.93	1.15
21:i2:319:C:O2	21:i2:332:G:N2	1.80	1.15
12:J3:38:ARG:NH2	21:i3:524:U:O4	1.78	1.15
21:i4:1183:A:OP1	35:j4:15:ARG:CZ	1.93	1.15
22:A5:214:GLU:HG3	33:R5:84:TYR:CE1	1.81	1.15
21:i6:1842:C:OP1	35:j6:3:ALA:HB3	0.98	1.15
36:k1:86:HIS:HB3	36:k1:141:HIS:HD2	1.09	1.15
36:k2:109:ALA:C	36:k2:166:ASN:HD22	1.54	1.15
14:N2:137:PRO:CG	30:L2:154:GLN:HB3	1.75	1.15
21:i2:1236:G:O6	34:S2:137:LYS:HE3	1.41	1.15
33:R2:21:TYR:CG	33:R2:71:ILE:CD1	2.29	1.15
8:f4:86:THR:CG2	21:i4:1269:G:OP2	1.94	1.15
10:C4:64:THR:O	10:C4:277:HIS:CE1	1.98	1.15
14:N4:148:ALA:HB3	14:N4:149:LEU:HA	1.26	1.15
18:Z5:82:SER:N	21:i5:1598:G:H2'	1.59	1.15
8:f6:86:THR:CG2	21:i6:1269:G:OP2	1.94	1.15
10:C6:68:ARG:HH11	10:C6:277:HIS:CB	1.43	1.15
36:k1:95:GLN:HG3	36:k1:164:ILE:HD11	1.20	1.15
36:k2:83:ARG:CG	36:k2:175:TRP:CZ3	2.29	1.15
36:k2:108:GLY:O	36:k2:166:ASN:CG	1.90	1.15
21:i1:689:U:O4	27:H1:122:LEU:HD11	1.46	1.15
8:f2:95:ARG:HD2	21:i2:1289:U:OP2	1.00	1.15
8:f3:95:ARG:CG	21:i3:1289:U:OP2	1.93	1.15
21:i3:1172:U:C4'	35:j3:10:MET:CE	2.25	1.15
26:F3:137:GLN:HG2	26:F3:204:ARG:O	1.47	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z5:50:PHE:O	34:S5:5:ILE:HG21	1.32	1.15
13:M1:27:ILE:CG2	29:K1:84:HIS:CE1	2.29	1.15
28:I1:124:LYS:C	15:O6:66:ARG:HH22	1.40	1.15
8:f2:95:ARG:HG3	21:i2:1289:U:P	1.86	1.15
8:f3:95:ARG:HD2	21:i3:1289:U:OP2	1.00	1.15
8:f4:95:ARG:HG3	21:i4:1289:U:P	1.86	1.15
8:f4:105:TYR:HD2	8:f4:106:TYR:CE2	1.63	1.15
14:N4:133:ARG:HD2	30:L4:152:LYS:HB3	1.26	1.15
31:P4:41:GLN:CB	31:P4:84:ILE:HD13	1.75	1.15
8:f5:92:LYS:HB3	21:i5:1303:C:O2'	1.02	1.15
10:C5:64:THR:O	10:C5:277:HIS:CE1	1.97	1.15
13:M5:14:VAL:CG1	13:M5:127:TYR:HE1	1.52	1.15
13:M5:27:ILE:CG2	29:K5:84:HIS:CE1	2.29	1.15
22:A5:205:ARG:CG	22:A5:210:ILE:CG2	2.25	1.15
14:N6:148:ALA:HB3	14:N6:149:LEU:HA	1.26	1.15
36:k2:95:GLN:HB3	36:k2:134:ILE:HD12	1.27	1.15
11:G1:141:ILE:HG12	11:G1:144:LEU:HD21	1.18	1.14
26:F1:137:GLN:HG2	26:F1:204:ARG:O	1.47	1.14
26:F2:198:ARG:NH1	28:I4:146:GLN:HE21	1.43	1.14
10:C3:273:LEU:CB	10:C3:280:VAL:HG13	1.76	1.14
10:C3:273:LEU:HD13	10:C3:280:VAL:CG1	1.77	1.14
13:M3:27:ILE:HG23	29:K3:84:HIS:ND1	1.63	1.14
18:Z3:50:PHE:O	34:S3:5:ILE:HG21	1.32	1.14
22:A3:205:ARG:CG	22:A3:210:ILE:CG2	2.26	1.14
34:S3:108:ARG:HH22	21:i6:1773:C:C3'	1.59	1.14
8:f5:130:VAL:CG1	21:i5:1310:U:OP2	1.95	1.14
11:G5:141:ILE:CB	11:G5:144:LEU:HD21	1.76	1.14
31:P5:15:PHE:CZ	31:P5:112:ILE:CG1	2.31	1.14
8:f6:95:ARG:CG	21:i6:1289:U:OP2	1.93	1.14
12:J6:173:VAL:HG11	21:i6:560:A:H5''	1.23	1.14
22:A6:205:ARG:CG	22:A6:210:ILE:CG2	2.26	1.14
36:k3:95:GLN:CG	36:k3:164:ILE:HD11	1.70	1.14
13:M1:27:ILE:HG23	29:K1:84:HIS:ND1	1.62	1.14
28:I1:125:LYS:CG	15:O6:66:ARG:CD	2.19	1.14
30:L1:124:ASP:HB2	30:L1:147:LYS:CB	1.78	1.14
8:f2:86:THR:CG2	21:i2:1269:G:OP2	1.94	1.14
11:G2:189:ARG:NH1	21:i2:330:G:C6	2.14	1.14
21:i4:211:G:C5	21:i4:212:C:N3	2.15	1.14
22:A4:214:GLU:HG3	33:R4:84:TYR:CE1	1.81	1.14
18:Z5:70:PRO:CG	18:Z5:88:LEU:HD13	1.58	1.14
21:i5:1849:G:H5'	37:I5:146:ARG:NH2	1.46	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G6:139:SER:HA	11:G6:142:ARG:HG3	1.29	1.14
36:k1:95:GLN:HB2	36:k1:134:ILE:HD13	1.18	1.14
37:l1:178:ILE:HB	37:l1:190:ILE:HD13	1.25	1.14
4:X2:55:VAL:CG2	20:e2:2:VAL:CB	2.26	1.14
10:C2:273:LEU:HB2	10:C2:280:VAL:HG13	1.21	1.14
10:C2:273:LEU:HD13	10:C2:280:VAL:CG1	1.77	1.14
14:N2:131:THR:O	30:L2:152:LYS:HG2	1.46	1.14
21:i2:1772:C:C5'	34:S5:112:GLU:CD	2.19	1.14
22:A2:214:GLU:HG3	33:R2:84:TYR:CE1	1.80	1.14
8:f3:86:THR:CG2	21:i3:1269:G:OP2	1.94	1.14
11:G3:141:ILE:CB	11:G3:144:LEU:HD21	1.76	1.14
21:i3:1613:G:P	31:P3:39:ALA:HB2	1.88	1.14
22:A3:214:GLU:HG3	33:R3:84:TYR:CE1	1.81	1.14
26:F4:137:GLN:HG2	26:F4:204:ARG:O	1.47	1.14
8:f5:95:ARG:CG	21:i5:1289:U:OP2	1.93	1.14
2:U6:17:ILE:HG23	2:U6:95:SER:H	1.08	1.14
36:k4:94:HIS:CA	36:k4:133:ALA:O	1.93	1.14
8:f1:95:ARG:CG	21:i1:1289:U:P	2.35	1.14
14:N1:148:ALA:HB3	14:N1:149:LEU:HA	1.26	1.14
21:i1:315:C:N3	21:i1:336:A:H2	1.44	1.14
21:i1:867:G:H4'	30:L1:149:ALA:HB1	1.15	1.14
8:f2:130:VAL:CG1	21:i2:1310:U:OP2	1.96	1.14
14:N2:133:ARG:CD	30:L2:152:LYS:CE	2.19	1.14
22:A3:211:GLU:CG	33:R3:81:ARG:HH22	1.52	1.14
8:f4:130:VAL:CG1	21:i4:1310:U:OP2	1.95	1.14
22:A4:89:LYS:NZ	33:R4:82:ASP:OD1	1.78	1.14
36:k2:109:ALA:C	36:k2:166:ASN:ND2	2.06	1.14
37:l3:150:GLN:O	37:l3:151:LYS:CG	1.93	1.14
8:f1:86:THR:CG2	21:i1:1269:G:OP2	1.94	1.14
13:M1:28:HIS:CE1	13:M1:116:LYS:HE3	1.83	1.14
20:e1:40:ARG:HA	20:e1:44:ASN:HD21	1.12	1.14
8:f2:95:ARG:CG	21:i2:1289:U:P	2.36	1.14
13:M2:125:GLU:HB3	13:M2:129:LYS:HE3	1.28	1.14
8:f3:95:ARG:CG	21:i3:1289:U:P	2.36	1.14
8:f3:95:ARG:HG3	21:i3:1289:U:P	1.86	1.14
10:C3:274:VAL:HG23	10:C3:275:LYS:HD2	1.20	1.14
11:G3:139:SER:HA	11:G3:142:ARG:HG3	1.29	1.14
13:M3:28:HIS:CE1	13:M3:116:LYS:HE3	1.83	1.14
18:Z3:70:PRO:CG	18:Z3:88:LEU:HD13	1.58	1.14
10:C4:68:ARG:HH11	10:C4:277:HIS:CB	1.43	1.14
10:C4:273:LEU:HD13	10:C4:280:VAL:CG1	1.78	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G4:141:ILE:HA	11:G4:144:LEU:CD2	1.78	1.14
8:f5:86:THR:CG2	21:i5:1269:G:OP2	1.94	1.14
8:f5:95:ARG:CG	21:i5:1289:U:P	2.36	1.14
10:C5:68:ARG:HH11	10:C5:277:HIS:CB	1.43	1.14
10:C5:273:LEU:CB	10:C5:280:VAL:HG13	1.76	1.14
36:k5:22:ILE:HG12	36:k5:50:VAL:HG21	1.27	1.14
15:O1:66:ARG:NH1	28:I3:125:LYS:HD3	1.62	1.13
22:A1:205:ARG:CG	22:A1:210:ILE:CG2	2.25	1.13
14:N2:133:ARG:HG3	30:L2:152:LYS:CG	1.78	1.13
8:f3:130:VAL:CG1	21:i3:1310:U:OP2	1.96	1.13
31:P3:34:MET:HB3	31:P3:42:ARG:HG3	1.23	1.13
8:f4:95:ARG:CG	21:i4:1289:U:P	2.36	1.13
18:Z4:88:LEU:HB3	18:Z4:109:TYR:OH	1.49	1.13
13:M5:27:ILE:HG23	29:K5:84:HIS:ND1	1.62	1.13
13:M6:27:ILE:CG2	29:K6:84:HIS:CE1	2.29	1.13
11:G2:141:ILE:HA	11:G2:144:LEU:CD2	1.78	1.13
12:J2:125:HIS:HB2	21:i2:526:A:O2'	1.41	1.13
18:Z2:88:LEU:HB3	18:Z2:109:TYR:OH	1.48	1.13
26:F2:198:ARG:HH22	28:I4:146:GLN:HG3	1.03	1.13
2:U6:19:ARG:HD3	2:U6:119:ALA:HB1	1.23	1.13
21:i6:1689:C:O3'	21:i6:1690:U:P	2.07	1.13
8:f1:87:THR:HG22	8:f1:90:LYS:HE2	1.28	1.13
10:C1:274:VAL:HG23	10:C1:275:LYS:HD2	1.20	1.13
20:e1:43:VAL:CG1	21:i1:550:C:O3'	1.97	1.13
22:A1:214:GLU:HG3	33:R1:84:TYR:CD1	1.83	1.13
30:L1:30:LYS:HZ1	23:B6:21:VAL:N	1.45	1.13
13:M2:28:HIS:CE1	13:M2:116:LYS:HE3	1.83	1.13
14:N2:148:ALA:H	14:N2:149:LEU:HB3	1.07	1.13
2:U3:17:ILE:HG23	2:U3:95:SER:H	1.08	1.13
11:G3:190:ARG:NH2	21:i3:333:G:C6	2.17	1.13
13:M3:125:GLU:HB3	13:M3:129:LYS:HE3	1.28	1.13
18:Z5:86:ALA:CB	34:S5:3:LEU:HD11	1.79	1.13
8:f6:95:ARG:HG3	21:i6:1289:U:P	1.86	1.13
10:C6:273:LEU:HD13	10:C6:280:VAL:CG1	1.78	1.13
11:G6:141:ILE:HG12	11:G6:144:LEU:HD21	1.19	1.13
21:i6:1613:G:OP2	31:P6:39:ALA:HB2	0.95	1.13
36:k1:145:VAL:O	36:k1:167:ILE:HG12	1.49	1.13
36:k5:168:HIS:NE2	36:k5:174:LEU:HB3	1.61	1.13
2:U1:17:ILE:HG21	2:U1:94:PRO:HA	1.30	1.13
8:f1:87:THR:CG2	8:f1:90:LYS:CE	2.13	1.13
13:M2:27:ILE:HG23	29:K2:84:HIS:ND1	1.62	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z2:86:ALA:CB	34:S2:3:LEU:HD11	1.79	1.13
22:A2:205:ARG:CG	22:A2:210:ILE:CG2	2.26	1.13
11:G3:141:ILE:CA	11:G3:144:LEU:HD23	1.79	1.13
18:Z3:88:LEU:HB3	18:Z3:109:TYR:OH	1.49	1.13
21:i3:1377:U:P	22:A3:102:ARG:HE	1.71	1.13
8:f4:96:LYS:HB3	21:i4:1307:U:C5	1.84	1.13
18:Z4:70:PRO:CG	18:Z4:88:LEU:HD13	1.58	1.13
36:k2:170:LEU:HD23	36:k2:171:ASN:N	1.62	1.13
8:f1:130:VAL:HG13	21:i1:1310:U:H5'	1.29	1.13
10:C1:273:LEU:HD13	10:C1:280:VAL:CG1	1.77	1.12
11:G2:189:ARG:O	21:i2:331:C:OP2	1.64	1.13
33:R2:21:TYR:CD1	33:R2:71:ILE:HD11	1.82	1.12
18:Z3:46:ASN:HB3	18:Z3:80:ARG:HA	1.24	1.13
18:Z3:75:GLU:OE2	21:i6:192:C:O3'	1.67	1.12
18:Z3:86:ALA:CB	34:S3:3:LEU:HD11	1.78	1.13
18:Z4:50:PHE:O	34:S4:5:ILE:HG21	1.31	1.13
21:i4:693:A:C2	21:i4:738:C:C2'	2.30	1.13
22:A4:205:ARG:CG	22:A4:210:ILE:CG2	2.25	1.13
18:Z5:46:ASN:HB3	18:Z5:80:ARG:HA	1.23	1.12
18:Z5:88:LEU:HB3	18:Z5:109:TYR:OH	1.49	1.13
8:f6:130:VAL:CG1	21:i6:1310:U:OP2	1.96	1.13
34:S2:108:ARG:NH2	21:i4:1773:C:N1	1.97	1.12
21:i3:337:C:H2'	21:i3:338:G:H4'	1.20	1.12
28:I3:205:ARG:O	36:k1:56:HIS:CD2	2.01	1.12
8:f5:96:LYS:HB3	21:i5:1307:U:C5	1.84	1.12
31:P5:41:GLN:NE2	31:P5:84:ILE:HG23	1.64	1.12
8:f6:95:ARG:CG	21:i6:1289:U:P	2.36	1.12
11:G6:190:ARG:NH2	21:i6:332:G:C6	2.16	1.12
13:M6:27:ILE:HG23	29:K6:84:HIS:ND1	1.62	1.12
18:Z6:86:ALA:CB	34:S6:3:LEU:HD11	1.79	1.12
36:k1:143:LEU:O	36:k1:169:TYR:CB	1.95	1.12
37:l3:179:GLN:HG3	37:l3:180:GLU:H	1.07	1.12
37:l6:178:ILE:CD1	37:l6:190:ILE:HG23	1.77	1.12
8:f1:130:VAL:CG1	21:i1:1310:U:OP2	1.96	1.12
31:P1:34:MET:O	31:P1:42:ARG:CD	1.96	1.12
11:G2:141:ILE:CA	11:G2:144:LEU:HD23	1.79	1.12
11:G2:187:HIS:CE1	21:i2:317:C:H41	1.65	1.12
18:Z2:85:ARG:NH1	21:i2:1596:U:H5	1.45	1.12
11:G3:141:ILE:HA	11:G3:144:LEU:CD2	1.78	1.12
14:N3:129:TYR:C	14:N3:134:VAL:HG22	1.74	1.12
18:Z3:85:ARG:NH1	21:i3:1596:U:H5	1.45	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C4:273:LEU:HB2	10:C4:280:VAL:HG13	1.21	1.12
13:M4:27:ILE:HG23	29:K4:84:HIS:ND1	1.62	1.12
16:W4:111:MET:CE	16:W4:119:LYS:HD2	1.77	1.12
24:D4:67:ARG:CD	29:K4:96:ARG:HH21	1.62	1.12
10:C6:273:LEU:CB	10:C6:280:VAL:HG13	1.76	1.12
11:G6:141:ILE:CA	11:G6:144:LEU:HD23	1.78	1.12
18:Z6:88:LEU:HB3	18:Z6:109:TYR:OH	1.49	1.12
21:i6:368:U:O2	36:k3:109:ALA:CB	1.97	1.12
11:G1:141:ILE:CA	11:G1:144:LEU:HD23	1.78	1.12
24:D3:67:ARG:CD	29:K3:96:ARG:HH21	1.62	1.12
13:M4:28:HIS:CE1	13:M4:116:LYS:HE3	1.83	1.12
14:N4:133:ARG:HD3	30:L4:152:LYS:HE3	1.15	1.12
2:U5:17:ILE:HG23	2:U5:95:SER:H	1.08	1.12
13:M5:28:HIS:CE1	13:M5:116:LYS:HE3	1.83	1.12
2:U6:17:ILE:HG21	2:U6:94:PRO:HA	1.30	1.12
21:i6:1751:C:H5	21:i6:1781:A:C2	1.67	1.12
36:k3:94:HIS:HB2	36:k3:135:MET:HG2	1.25	1.12
36:k4:83:ARG:HH22	36:k4:175:TRP:NE1	1.45	1.12
2:U1:17:ILE:HG23	2:U1:95:SER:H	1.08	1.12
18:Z2:46:ASN:HB3	18:Z2:80:ARG:HA	1.23	1.12
21:i2:628:A:H62	24:D2:145:GLN:HG3	1.12	1.12
21:i2:956:G:OP1	28:I4:157:LYS:NZ	1.82	1.12
13:M5:125:GLU:HB3	13:M5:129:LYS:HE3	1.28	1.12
8:f6:87:THR:HG22	8:f6:90:LYS:HE2	1.28	1.12
13:M6:28:HIS:CE1	13:M6:116:LYS:HE3	1.83	1.12
21:i6:1751:C:C5	21:i6:1781:A:C2	2.37	1.12
22:A6:214:GLU:HG3	33:R6:84:TYR:CD1	1.84	1.12
36:k1:94:HIS:HB2	36:k1:135:MET:HG2	1.17	1.12
36:k1:95:GLN:CG	36:k1:164:ILE:CD1	2.26	1.12
36:k4:112:MET:HG2	36:k4:114:PRO:HD2	1.30	1.12
36:k5:95:GLN:CB	36:k5:134:ILE:HD13	1.76	1.12
37:l1:182:TRP:HB2	37:l1:183:PRO:HA	1.31	1.12
8:f1:96:LYS:HB3	21:i1:1307:U:C5	1.84	1.12
19:b1:37:CYS:HB3	19:b1:38:PRO:HD2	1.30	1.12
21:i1:52:G:OP2	8:f2:110:GLU:CG	1.97	1.12
21:i1:1772:C:O2	34:S6:112:GLU:CD	1.92	1.12
22:A1:214:GLU:CG	33:R1:84:TYR:CE1	2.32	1.12
31:P1:12:PHE:CE2	21:i3:1764:G:C4'	2.33	1.12
21:i2:130:G:O5'	21:i2:214:U:O4	1.66	1.12
8:f3:105:TYR:OH	8:f3:131:PHE:CB	1.98	1.12
21:i3:1852:C:OP2	35:j3:1:MET:HB2	1.47	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:148:ALA:H	14:N4:149:LEU:HB3	1.07	1.12
21:i4:1828:C:H4'	37:l4:155:GLY:H	0.97	1.12
24:D5:67:ARG:CD	29:K5:96:ARG:HH21	1.62	1.12
11:G1:141:ILE:HA	11:G1:144:LEU:CD2	1.79	1.11
18:Z1:86:ALA:CB	34:S1:3:LEU:HD11	1.79	1.11
24:D1:64:ARG:NE	29:K1:95:ARG:NH2	1.98	1.11
8:f2:105:TYR:OH	8:f2:131:PHE:CB	1.98	1.11
11:G2:139:SER:HA	11:G2:142:ARG:HG3	1.29	1.11
21:i2:1772:C:C4'	34:S5:112:GLU:OE2	1.98	1.11
24:D2:64:ARG:NE	29:K2:95:ARG:NH2	1.98	1.11
14:N3:148:ALA:H	14:N3:149:LEU:HB3	1.07	1.11
2:U4:19:ARG:HD3	2:U4:119:ALA:HB1	1.23	1.11
8:f4:93:HIS:HB2	21:i4:1304:U:C5'	1.80	1.11
21:i5:1615:U:OP2	31:P5:43:ARG:CZ	1.97	1.11
8:f6:80:ARG:CD	21:i6:1509:U:H3	1.63	1.11
8:f6:96:LYS:HB3	21:i6:1307:U:C5	1.84	1.11
11:G6:141:ILE:HA	11:G6:144:LEU:CD2	1.78	1.11
24:D6:64:ARG:NE	29:K6:95:ARG:NH2	1.98	1.11
36:k3:95:GLN:HG2	36:k3:164:ILE:CD1	1.62	1.11
36:k6:95:GLN:CG	36:k6:164:ILE:HD13	1.75	1.11
37:l5:178:ILE:HB	37:l5:190:ILE:HD13	1.24	1.11
18:Z1:70:PRO:CG	18:Z1:88:LEU:HD13	1.58	1.11
22:A1:214:GLU:OE1	22:A1:215:GLN:CD	1.93	1.11
30:L1:124:ASP:CB	30:L1:147:LYS:HB3	1.80	1.11
10:C2:74:LYS:HE2	10:C2:272:HIS:CB	1.78	1.11
21:i2:318:A:C2	21:i2:333:G:C2	2.38	1.11
8:f3:96:LYS:HB3	21:i3:1307:U:C5	1.84	1.11
14:N3:129:TYR:CA	14:N3:134:VAL:HG21	1.79	1.11
21:i3:1843:G:C8	35:j3:4:LYS:NZ	2.15	1.11
8:f4:105:TYR:OH	8:f4:131:PHE:CB	1.98	1.11
11:G4:141:ILE:CA	11:G4:144:LEU:HD23	1.78	1.11
10:C5:273:LEU:HD13	10:C5:280:VAL:CG1	1.78	1.11
11:G5:141:ILE:HG12	11:G5:144:LEU:HD21	1.19	1.11
11:G5:141:ILE:CA	11:G5:144:LEU:HD23	1.78	1.11
20:e5:43:VAL:HG11	21:i5:551:U:C2'	1.80	1.11
11:G6:190:ARG:NH2	21:i6:332:G:O6	1.83	1.11
26:F6:137:GLN:HG2	26:F6:204:ARG:O	1.45	1.11
37:l6:127:TYR:HB2	37:l6:169:ASP:HB3	1.19	1.11
37:l6:179:GLN:HG3	37:l6:180:GLU:H	1.07	1.11
8:f1:105:TYR:OH	8:f1:131:PHE:CB	1.98	1.11
8:f2:96:LYS:HB3	21:i2:1307:U:C5	1.84	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A2:211:GLU:HG2	33:R2:81:ARG:NH2	1.59	1.11
24:D2:67:ARG:CD	29:K2:96:ARG:HH21	1.62	1.11
20:e3:25:LYS:CE	21:i3:554:A:OP2	1.98	1.11
21:i3:696:G:H1	21:i3:734:C:C5'	1.61	1.11
18:Z4:86:ALA:CB	34:S4:3:LEU:HD11	1.79	1.11
21:i5:141:A:C2	21:i5:315:C:OP1	2.04	1.11
22:A6:214:GLU:OE1	22:A6:215:GLN:CD	1.94	1.11
36:k2:22:ILE:HG12	36:k2:50:VAL:HG21	1.26	1.11
36:k3:10:ASN:HA	36:k3:56:HIS:CE1	1.85	1.11
8:f1:93:HIS:HB2	21:i1:1304:U:C5'	1.80	1.11
11:G1:183:ARG:NH1	21:i1:317:C:OP1	1.83	1.11
21:i1:1828:C:C4'	37:l1:154:CYS:SG	2.38	1.11
21:i2:628:A:N6	24:D2:145:GLN:HG3	1.66	1.11
21:i2:1377:U:OP2	22:A2:102:ARG:HD2	1.48	1.11
10:C3:74:LYS:HE2	10:C3:272:HIS:CB	1.79	1.11
31:P3:15:PHE:CE2	31:P3:17:TYR:HB2	1.84	1.11
31:P3:41:GLN:NE2	31:P3:84:ILE:HG23	1.65	1.11
11:G5:141:ILE:HA	11:G5:144:LEU:CD2	1.78	1.11
11:G5:143:LYS:CD	21:i5:1778:C:C5'	2.04	1.11
14:N5:133:ARG:HG2	30:L5:154:GLN:HG2	1.30	1.11
21:i5:1828:C:H4'	37:l5:155:GLY:H	1.12	1.11
24:D5:64:ARG:NE	29:K5:95:ARG:NH2	1.98	1.11
36:k4:83:ARG:HG2	36:k4:175:TRP:CZ3	1.85	1.11
37:l1:179:GLN:HG3	37:l1:180:GLU:H	1.07	1.11
10:C1:65:LYS:HB3	10:C1:279:ARG:HB3	1.12	1.11
18:Z1:85:ARG:NH1	21:i1:1596:U:H5	1.45	1.11
21:i1:186:C:H2'	21:i1:187:G:C8	1.86	1.11
24:D1:67:ARG:CD	29:K1:96:ARG:HH21	1.62	1.11
20:e2:45:VAL:HG21	21:i2:535:G:H5''	1.21	1.11
21:i2:1044:G:O6	36:k2:20:SER:OG	1.65	1.11
21:i3:628:A:N6	24:D3:145:GLN:HG3	1.63	1.11
24:D4:64:ARG:NE	29:K4:95:ARG:NH2	1.98	1.11
13:M5:36:ARG:CZ	21:i5:1310:U:H5	1.32	1.11
20:e5:45:VAL:CG2	21:i5:535:G:O4'	1.85	1.11
8:f6:93:HIS:HB2	21:i6:1304:U:C5'	1.80	1.11
21:i6:337:C:H2'	21:i6:338:G:H4'	1.27	1.11
36:k4:10:ASN:HA	36:k4:56:HIS:CE1	1.86	1.11
36:k4:83:ARG:HH21	36:k4:175:TRP:CG	1.59	1.11
36:k5:10:ASN:HA	36:k5:56:HIS:CE1	1.85	1.11
2:U1:19:ARG:HD3	2:U1:119:ALA:HB1	1.23	1.10
15:O2:63:LYS:HE3	28:I4:163:GLU:HG3	1.24	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G3:141:ILE:HG12	11:G3:144:LEU:HD21	1.19	1.10
24:D3:64:ARG:NE	29:K3:95:ARG:NH2	1.98	1.10
21:i4:688:U:H1'	21:i4:689:U:OP2	1.51	1.10
8:f6:105:TYR:OH	8:f6:131:PHE:CB	1.98	1.10
24:D6:67:ARG:CD	29:K6:96:ARG:HH21	1.63	1.10
36:k2:95:GLN:HG3	36:k2:164:ILE:HD11	1.25	1.10
36:k4:22:ILE:HG12	36:k4:50:VAL:HG21	1.27	1.10
36:k4:85:LEU:HD21	36:k4:133:ALA:HB2	1.30	1.10
36:k4:145:VAL:HB	36:k4:167:ILE:CB	1.67	1.10
18:Z1:50:PHE:O	34:S1:5:ILE:HG21	1.31	1.10
17:Y2:109:GLU:OE2	17:Y2:113:ARG:HD2	1.49	1.10
8:f3:93:HIS:HB2	21:i3:1304:U:C5'	1.81	1.10
18:Z4:85:ARG:NH1	21:i4:1596:U:H5	1.45	1.10
2:U5:17:ILE:HG21	2:U5:94:PRO:HA	1.29	1.10
2:U5:19:ARG:HD3	2:U5:119:ALA:HB1	1.23	1.10
21:i5:187:G:N2	21:i5:213:G:C5	2.19	1.10
10:C6:65:LYS:HB3	10:C6:279:ARG:HB3	1.11	1.10
22:A6:214:GLU:CG	33:R6:84:TYR:CE1	2.33	1.10
2:U2:17:ILE:HG23	2:U2:95:SER:H	1.08	1.10
8:f2:93:HIS:HB2	21:i2:1304:U:C5'	1.80	1.10
10:C2:68:ARG:CD	10:C2:277:HIS:ND1	2.15	1.10
15:O2:65:ASP:HB3	28:I4:123:ARG:NH2	1.61	1.10
28:I3:207:GLY:C	36:k1:12:SER:HB3	1.69	1.10
11:G5:139:SER:HA	11:G5:142:ARG:HG3	1.29	1.10
36:k1:93:PRO:O	36:k1:133:ALA:HB3	1.51	1.10
36:k3:112:MET:HG2	36:k3:114:PRO:HD2	1.30	1.10
36:k3:144:CYS:HA	36:k3:168:HIS:O	1.49	1.10
10:C1:68:ARG:CD	10:C1:277:HIS:ND1	2.14	1.10
18:Z1:88:LEU:HB3	18:Z1:109:TYR:OH	1.49	1.10
10:C3:68:ARG:HH11	10:C3:277:HIS:CB	1.43	1.10
8:f5:93:HIS:HB2	21:i5:1304:U:C5'	1.81	1.10
18:Z5:86:ALA:HB3	34:S5:3:LEU:HD11	1.13	1.10
21:i5:190:G:OP1	28:I5:148:LYS:NZ	1.84	1.10
31:P5:108:LYS:HB3	31:P5:109:PRO:HD2	1.17	1.10
36:k1:11:VAL:HG11	36:k1:180:TYR:CE1	1.84	1.10
36:k3:22:ILE:HG12	36:k3:50:VAL:HG21	1.27	1.10
36:k6:145:VAL:C	36:k6:167:ILE:HG13	1.75	1.10
10:C1:279:ARG:O	10:C1:280:VAL:CG1	2.00	1.10
28:I1:158:ILE:CD1	15:O6:63:LYS:HZ2	1.62	1.10
34:S2:108:ARG:NH2	21:i4:1773:C:C3'	2.14	1.10
2:U3:19:ARG:HD3	2:U3:119:ALA:HB1	1.23	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f3:99:LYS:CB	21:i3:1285:G:H21	1.65	1.10
21:i3:1615:U:OP2	31:P3:43:ARG:CZ	1.99	1.10
22:A3:89:LYS:HZ1	33:R3:82:ASP:CG	1.49	1.10
8:f6:80:ARG:NH2	21:i6:1503:C:O2'	1.84	1.10
10:C6:273:LEU:HB2	10:C6:280:VAL:HG13	1.21	1.10
21:i6:316:G:C2	21:i6:335:G:C6	2.40	1.10
11:G1:139:SER:HA	11:G1:142:ARG:HG3	1.29	1.09
10:C2:279:ARG:O	10:C2:280:VAL:CG1	2.00	1.09
10:C3:68:ARG:CD	10:C3:277:HIS:ND1	2.15	1.09
22:A3:211:GLU:HG2	33:R3:81:ARG:NH2	1.59	1.09
21:i4:1841:C:C3'	35:j4:2:ARG:HH21	1.64	1.09
30:L4:121:GLN:HG3	30:L4:153:LYS:HE2	1.27	1.09
36:k5:92:LEU:HD21	36:k5:131:ILE:HB	1.26	1.09
36:k6:112:MET:HG2	36:k6:114:PRO:HD2	1.30	1.09
37:l2:178:ILE:CD1	37:l2:190:ILE:HG23	1.77	1.09
8:f1:99:LYS:CB	21:i1:1285:G:H21	1.65	1.09
20:e1:31:ARG:HH12	21:i1:526:A:C5'	1.65	1.09
8:f2:87:THR:HG22	8:f2:90:LYS:HE2	1.28	1.09
11:G2:186:GLN:NE2	21:i2:331:C:N3	2.00	1.09
16:W4:115:GLU:OE2	16:W4:119:LYS:CE	2.00	1.09
18:Z4:86:ALA:HB3	34:S4:3:LEU:HD11	1.13	1.09
8:f5:105:TYR:OH	8:f5:131:PHE:CB	1.98	1.09
18:Z6:46:ASN:HB3	18:Z6:80:ARG:HA	1.23	1.09
36:k2:10:ASN:HA	36:k2:56:HIS:CE1	1.86	1.09
36:k4:83:ARG:CZ	36:k4:175:TRP:CE2	2.34	1.09
14:N2:133:ARG:HD3	30:L2:152:LYS:HE2	1.33	1.09
21:i2:1377:U:C5	22:A2:102:ARG:NH1	2.20	1.09
11:G3:190:ARG:CZ	21:i3:333:G:O6	2.00	1.09
14:N3:148:ALA:HB3	14:N3:149:LEU:HA	1.27	1.09
21:i3:1843:G:OP2	35:j3:4:LYS:CD	2.01	1.09
8:f4:130:VAL:HG13	21:i4:1310:U:H5'	1.29	1.09
10:C4:279:ARG:O	10:C4:280:VAL:CG1	2.00	1.09
21:i4:316:G:C6	21:i4:335:G:C2	2.40	1.09
21:i4:316:G:C5	21:i4:335:G:N2	2.20	1.09
8:f5:87:THR:HG22	8:f5:90:LYS:HE2	1.28	1.09
10:C5:68:ARG:CD	10:C5:277:HIS:ND1	2.14	1.09
33:R5:21:TYR:CD2	33:R5:72:LYS:HD2	1.87	1.09
36:k1:10:ASN:HA	36:k1:56:HIS:NE2	1.65	1.09
37:l4:115:VAL:HG12	37:l4:116:THR:H	0.93	1.09
11:G1:186:GLN:CD	21:i1:331:C:N4	2.10	1.09
20:e2:45:VAL:HG21	21:i2:535:G:H5'	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q2:4:LYS:HZ1	32:Q2:99:TYR:HA	0.96	1.09
10:C4:68:ARG:CD	10:C4:277:HIS:ND1	2.14	1.09
10:C4:72:ASP:OD2	10:C4:272:HIS:NE2	1.86	1.09
21:i4:1751:C:N4	21:i4:1783:C:O2	1.86	1.09
14:N5:148:ALA:H	14:N5:149:LEU:HB3	1.07	1.09
36:k2:95:GLN:HG2	36:k2:164:ILE:HD13	1.29	1.09
36:k2:170:LEU:CD2	36:k2:171:ASN:H	1.65	1.09
36:k5:95:GLN:HB3	36:k5:134:ILE:HD12	1.29	1.09
37:l6:182:TRP:HB2	37:l6:183:PRO:HA	1.31	1.09
14:N1:133:ARG:HG3	30:L1:152:LYS:HG3	1.30	1.09
14:N2:148:ALA:HB3	14:N2:149:LEU:HA	1.26	1.09
20:e3:45:VAL:CG1	21:i3:535:G:C4'	2.05	1.09
2:U4:17:ILE:HG21	2:U4:94:PRO:HA	1.30	1.09
21:i4:213:G:N2	21:i4:214:U:N1	2.01	1.09
21:i4:1172:U:H4'	35:j4:10:MET:HE3	1.29	1.09
10:C5:65:LYS:HB3	10:C5:279:ARG:HB3	1.11	1.09
18:Z5:85:ARG:NH1	21:i5:1596:U:H5	1.45	1.09
37:l3:178:ILE:CD1	37:l3:190:ILE:HG23	1.77	1.09
20:e1:39:ASN:HA	20:e1:43:VAL:HG21	1.35	1.08
18:Z2:50:PHE:O	34:S2:5:ILE:HG21	1.31	1.08
10:C4:65:LYS:HB3	10:C4:279:ARG:HB3	1.11	1.08
8:f5:130:VAL:HG13	21:i5:1310:U:H5'	1.29	1.08
10:C5:72:ASP:OD2	10:C5:272:HIS:NE2	1.86	1.08
14:N6:133:ARG:CD	30:L6:152:LYS:HB3	1.82	1.08
36:k2:83:ARG:NH2	36:k2:175:TRP:NE1	2.01	1.08
36:k2:112:MET:HG2	36:k2:114:PRO:HD2	1.30	1.08
36:k4:68:LEU:HD13	36:k4:174:LEU:HD11	1.10	1.08
10:C1:72:ASP:OD2	10:C1:272:HIS:NE2	1.86	1.08
14:N1:133:ARG:NH2	30:L1:154:GLN:HA	1.68	1.08
21:i1:12:U:C1'	21:i1:1357:A:C1'	2.30	1.08
4:X2:55:VAL:CG2	20:e2:2:VAL:CA	1.97	1.08
8:f3:87:THR:HG22	8:f3:90:LYS:HE2	1.27	1.08
11:G4:189:ARG:HD2	21:i4:330:G:N7	1.66	1.08
10:C5:279:ARG:O	10:C5:280:VAL:CG1	2.00	1.08
10:C6:72:ASP:OD2	10:C6:272:HIS:NE2	1.86	1.08
10:C6:279:ARG:O	10:C6:280:VAL:CG1	2.00	1.08
18:Z6:50:PHE:O	34:S6:5:ILE:HG21	1.32	1.08
37:l4:178:ILE:HB	37:l4:190:ILE:HD13	1.24	1.08
8:f1:80:ARG:CD	21:i1:1509:U:N3	2.12	1.08
13:M1:125:GLU:HB3	13:M1:129:LYS:HE3	1.28	1.08
14:N1:137:PRO:HG2	30:L1:154:GLN:HB3	1.35	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1378:A:OP2	22:A1:105:PRO:HG3	1.52	1.08
10:C3:65:LYS:HG2	10:C3:279:ARG:HH21	1.15	1.08
21:i3:555:A:N7	21:i3:557:U:C5	2.21	1.08
21:i3:1751:C:C5	21:i3:1781:A:C2	2.41	1.08
21:i4:337:C:H2'	21:i4:338:G:H4'	1.09	1.08
8:f5:93:HIS:HB2	21:i5:1304:U:C4'	1.83	1.08
8:f6:130:VAL:HG13	21:i6:1310:U:H5'	1.29	1.08
13:M6:125:GLU:HB3	13:M6:129:LYS:HE3	1.28	1.08
34:S6:6:PRO:HG3	34:S6:58:GLU:HG2	1.32	1.08
37:l3:115:VAL:HG12	37:l3:116:THR:N	1.53	1.08
21:i1:1615:U:OP2	31:P1:43:ARG:NH2	1.87	1.08
34:S2:108:ARG:NH2	21:i4:1773:C:H3'	1.67	1.08
8:f4:105:TYR:HH	8:f4:131:PHE:CB	1.66	1.08
20:e4:8:ARG:NH1	20:e4:11:LYS:HD3	1.68	1.08
21:i4:187:G:N2	21:i4:213:G:N3	2.02	1.08
36:k1:112:MET:HG2	36:k1:114:PRO:HD2	1.30	1.08
36:k2:95:GLN:CG	36:k2:164:ILE:HD11	1.79	1.08
36:k4:95:GLN:HB2	36:k4:134:ILE:HD13	1.10	1.08
37:l4:182:TRP:HB2	37:l4:183:PRO:HA	1.31	1.08
8:f1:93:HIS:HB2	21:i1:1304:U:H5'	1.32	1.08
14:N1:133:ARG:HD2	30:L1:152:LYS:HB3	1.10	1.08
14:N1:133:ARG:HD3	30:L1:152:LYS:HE3	1.10	1.08
8:f3:99:LYS:CG	21:i3:1285:G:N2	1.79	1.08
8:f3:130:VAL:HG13	21:i3:1310:U:H5'	1.29	1.08
21:i3:696:G:H1	21:i3:734:C:H5''	0.91	1.08
11:G4:143:LYS:HG2	21:i4:1778:C:H5'	1.14	1.08
16:W4:111:MET:HE1	16:W4:119:LYS:HD2	1.30	1.08
21:i4:1172:U:H5'	35:j4:14:LYS:CE	1.84	1.08
12:J5:125:HIS:HB2	21:i5:526:A:O2'	1.51	1.08
10:C6:65:LYS:HG2	10:C6:279:ARG:HH21	1.15	1.08
10:C6:68:ARG:CD	10:C6:277:HIS:ND1	2.15	1.08
36:k2:86:HIS:HB3	36:k2:141:HIS:HD2	1.10	1.08
36:k3:33:PHE:CE1	36:k3:92:LEU:CD1	2.36	1.08
37:l5:115:VAL:HG12	37:l5:116:THR:H	0.93	1.08
18:Z1:86:ALA:HB3	34:S1:3:LEU:HD11	1.12	1.07
8:f2:93:HIS:HB2	21:i2:1304:U:H5'	1.32	1.07
10:C2:74:LYS:CE	10:C2:272:HIS:CG	2.37	1.07
31:P3:12:PHE:HB2	21:i6:1763:G:C3'	1.84	1.07
34:S3:6:PRO:HG3	34:S3:58:GLU:HG2	1.31	1.07
8:f4:93:HIS:HB2	21:i4:1304:U:H5'	1.32	1.07
21:i4:1172:U:C5'	35:j4:14:LYS:HZ3	1.55	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1377:U:C4	22:A4:102:ARG:NH1	2.21	1.07
36:k2:94:HIS:HB2	36:k2:135:MET:HG2	1.34	1.07
36:k6:35:GLY:C	36:k6:91:ILE:HG22	1.77	1.07
36:k6:68:LEU:HD13	36:k6:174:LEU:HD11	1.36	1.07
36:k6:145:VAL:O	36:k6:167:ILE:HG12	1.49	1.07
37:l1:115:VAL:HG12	37:l1:116:THR:N	1.53	1.07
37:l6:115:VAL:HG12	37:l6:116:THR:H	0.93	1.07
21:i1:337:C:H2'	21:i1:338:G:H4'	1.11	1.07
21:i1:1841:C:OP1	35:j1:2:ARG:HD3	1.51	1.07
18:Z2:82:SER:HB3	21:i2:1598:G:H5''	1.36	1.07
21:i2:1844:U:O4	35:j2:4:LYS:CD	2.01	1.07
18:Z3:86:ALA:HB3	34:S3:3:LEU:HD11	1.12	1.07
21:i3:1751:C:C4	21:i3:1781:A:H2	1.72	1.07
21:i4:1173:A:OP2	35:j4:14:LYS:HD2	1.53	1.07
21:i4:1708:C:C1'	37:l4:153:SER:HB2	1.85	1.07
14:N5:148:ALA:HB3	14:N5:149:LEU:HA	1.26	1.07
18:Z5:82:SER:HB3	21:i5:1598:G:H5''	1.36	1.07
36:k5:112:MET:HG2	36:k5:114:PRO:HD2	1.30	1.07
37:l3:115:VAL:HG12	37:l3:116:THR:H	0.93	1.07
10:C1:145:LYS:CG	21:i1:1348:G:H5'	1.84	1.07
18:Z1:82:SER:HB3	21:i1:1598:G:H5''	1.36	1.07
10:C2:65:LYS:HG2	10:C2:279:ARG:HH21	1.15	1.07
2:U3:17:ILE:HG21	2:U3:94:PRO:HA	1.29	1.07
10:C3:74:LYS:CE	10:C3:272:HIS:CG	2.37	1.07
8:f4:87:THR:HG22	8:f4:90:LYS:HE2	1.28	1.07
8:f4:93:HIS:HB2	21:i4:1304:U:C4'	1.83	1.07
20:e4:45:VAL:HB	21:i4:535:G:H4'	1.33	1.07
21:i5:1240:A:C2	31:P5:100:LYS:CA	2.37	1.07
21:i6:368:U:O2'	36:k3:104:PHE:CD1	2.05	1.07
21:i6:1240:A:C2	31:P6:100:LYS:CA	2.37	1.07
36:k1:143:LEU:O	36:k1:169:TYR:HB3	1.53	1.07
36:k3:95:GLN:HG3	36:k3:164:ILE:HD12	1.12	1.07
36:k4:95:GLN:HG3	36:k4:164:ILE:HD13	1.17	1.07
36:k5:145:VAL:O	36:k5:167:ILE:HB	1.52	1.07
37:l4:179:GLN:HG3	37:l4:180:GLU:H	1.07	1.07
8:f1:93:HIS:HB2	21:i1:1304:U:C4'	1.84	1.07
10:C1:74:LYS:HE2	10:C1:272:HIS:CB	1.78	1.07
21:i2:557:U:H2'	21:i2:558:G:N7	1.68	1.07
21:i2:1236:G:H5''	31:P2:133:ILE:HD12	1.24	1.07
10:C3:279:ARG:O	10:C3:280:VAL:CG1	2.00	1.07
10:C4:65:LYS:HB3	10:C4:279:ARG:CB	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A4:211:GLU:HG2	33:R4:81:ARG:NH2	1.59	1.07
26:F4:182:LYS:HA	21:i5:201:C:OP2	1.49	1.07
22:A5:211:GLU:HG2	33:R5:81:ARG:NH2	1.59	1.07
36:k4:86:HIS:CE1	36:k4:141:HIS:HB3	1.90	1.07
36:k4:94:HIS:HB2	36:k4:135:MET:HG2	1.27	1.07
37:l3:128:VAL:CB	37:l3:166:ILE:O	2.03	1.07
33:R1:64:GLY:O	33:R1:73:LEU:CD2	2.02	1.07
8:f2:93:HIS:HB2	21:i2:1304:U:C4'	1.83	1.07
10:C2:274:VAL:HG23	10:C2:275:LYS:HD2	1.20	1.07
11:G2:189:ARG:NH1	21:i2:330:G:N7	2.03	1.07
21:i2:1853:C:N4	35:j2:5:TRP:CH2	2.22	1.07
8:f3:93:HIS:HB2	21:i3:1304:U:H5'	1.33	1.07
10:C3:142:LYS:NZ	21:i3:1350:U:OP2	1.87	1.07
21:i4:1240:A:C2	31:P4:100:LYS:CA	2.37	1.07
14:N5:129:TYR:CA	14:N5:134:VAL:CG2	2.33	1.07
21:i6:1848:U:H5''	37:l6:146:ARG:HH12	0.92	1.07
36:k1:145:VAL:O	36:k1:167:ILE:HB	1.30	1.07
36:k5:82:LEU:HD12	36:k5:169:TYR:CA	1.77	1.07
37:l2:178:ILE:HB	37:l2:190:ILE:HD13	1.25	1.07
18:Z1:85:ARG:HD3	21:i1:1598:G:O6	1.55	1.06
21:i1:12:U:H1'	21:i1:1357:A:H1'	1.07	1.06
32:Q1:4:LYS:HZ1	32:Q1:99:TYR:HA	0.96	1.06
21:i2:1843:G:N7	35:j2:4:LYS:NZ	2.04	1.06
8:f3:93:HIS:HB2	21:i3:1304:U:C4'	1.84	1.06
21:i5:1174:U:H5''	35:j5:21:ARG:CZ	1.84	1.06
10:C6:145:LYS:CG	21:i6:1348:G:H5'	1.83	1.06
36:k1:86:HIS:NE2	36:k1:141:HIS:CB	2.17	1.06
36:k3:95:GLN:HB3	36:k3:134:ILE:HD12	1.35	1.06
37:l4:128:VAL:CB	37:l4:166:ILE:O	2.03	1.06
37:l4:178:ILE:CD1	37:l4:190:ILE:HG23	1.77	1.06
8:f1:110:GLU:O	17:Y2:113:ARG:CZ	2.04	1.06
4:X2:55:VAL:HG21	20:e2:2:VAL:CB	1.80	1.06
18:Z3:82:SER:HB3	21:i3:1598:G:H5''	1.36	1.06
20:e3:25:LYS:CD	21:i3:554:A:P	2.42	1.06
21:i3:1240:A:C2	31:P3:100:LYS:CA	2.37	1.06
21:i4:692:G:H5'	21:i4:734:C:H42	1.17	1.06
10:C5:65:LYS:HB3	10:C5:279:ARG:CB	1.85	1.06
10:C6:65:LYS:HB3	10:C6:279:ARG:CB	1.85	1.06
21:i6:1377:U:OP2	22:A6:102:ARG:NE	1.86	1.06
36:k5:33:PHE:CE1	36:k5:131:ILE:HD12	1.90	1.06
37:l4:115:VAL:HG12	37:l4:116:THR:N	1.53	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:186:C:H2'	21:i1:187:G:H8	0.94	1.06
8:f2:130:VAL:HG13	21:i2:1310:U:H5'	1.29	1.06
11:G2:189:ARG:NH1	21:i2:330:G:C5	2.23	1.06
15:O2:66:ARG:CD	28:I4:125:LYS:CD	2.30	1.06
34:S2:6:PRO:HG3	34:S2:58:GLU:HG2	1.32	1.06
21:i4:316:G:C2	21:i4:335:G:C2	2.43	1.06
21:i4:1183:A:OP1	35:j4:15:ARG:NH1	1.86	1.06
21:i4:1842:C:OP2	35:j4:2:ARG:NE	1.89	1.06
8:f6:80:ARG:CZ	21:i6:1509:U:O4	2.03	1.06
18:Z6:86:ALA:HB3	34:S6:3:LEU:HD11	1.12	1.06
21:i6:11:A:N3	21:i6:1357:A:O2'	1.87	1.06
36:k1:7:GLU:HB3	36:k1:177:MET:CG	1.85	1.06
37:l6:128:VAL:CB	37:l6:166:ILE:O	2.03	1.06
18:Z2:85:ARG:HD3	21:i2:1598:G:O6	1.55	1.06
18:Z2:86:ALA:HB3	34:S2:3:LEU:HD11	1.13	1.06
8:f3:105:TYR:CD2	8:f3:106:TYR:CE2	2.44	1.06
10:C3:65:LYS:HB3	10:C3:279:ARG:CB	1.85	1.06
31:P3:12:PHE:CD1	21:i6:1763:G:C4'	2.37	1.06
18:Z4:82:SER:HB3	21:i4:1598:G:H5''	1.36	1.06
21:i4:739:C:N4	21:i4:746:C:N4	2.03	1.06
36:k1:7:GLU:CB	36:k1:177:MET:HG3	1.85	1.06
36:k1:86:HIS:CE1	36:k1:141:HIS:CB	2.37	1.06
37:l1:115:VAL:HG12	37:l1:116:THR:H	0.93	1.06
37:l1:128:VAL:CB	37:l1:166:ILE:O	2.03	1.06
37:l2:128:VAL:CB	37:l2:166:ILE:O	2.03	1.06
37:l5:178:ILE:CD1	37:l5:190:ILE:HG23	1.77	1.06
21:i1:696:G:N1	21:i1:734:C:H5''	1.71	1.06
22:A1:211:GLU:HG2	33:R1:81:ARG:NH2	1.59	1.06
14:N2:131:THR:O	30:L2:152:LYS:CG	2.03	1.06
21:i2:1240:A:C2	31:P2:100:LYS:CA	2.37	1.06
10:C3:65:LYS:HB3	10:C3:279:ARG:HB3	1.11	1.06
11:G4:143:LYS:HD2	21:i4:1778:C:H5''	1.36	1.06
20:e4:45:VAL:HG21	21:i4:535:G:H5''	1.11	1.06
26:F4:182:LYS:CB	21:i5:201:C:OP2	2.02	1.06
21:i5:1172:U:H4'	35:j5:10:MET:HE3	1.10	1.06
8:f6:92:LYS:CE	21:i6:1272:C:OP2	2.04	1.06
36:k1:86:HIS:CB	36:k1:141:HIS:HD2	1.66	1.06
36:k3:145:VAL:O	36:k3:167:ILE:CG1	2.03	1.06
37:l5:128:VAL:CB	37:l5:166:ILE:O	2.03	1.06
10:C1:65:LYS:HB3	10:C1:279:ARG:CB	1.85	1.05
14:N1:133:ARG:HD3	30:L1:152:LYS:CE	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1240:A:C2	31:P1:100:LYS:CA	2.37	1.05
13:M2:36:ARG:CZ	21:i2:1310:U:H5	1.31	1.05
14:N3:129:TYR:HD1	14:N3:134:VAL:HG11	0.95	1.05
8:f4:105:TYR:CD2	8:f4:106:TYR:CE2	2.43	1.05
8:f5:93:HIS:HB2	21:i5:1304:U:H5'	1.32	1.05
20:e5:45:VAL:HG11	21:i5:535:G:C4'	1.85	1.05
21:i5:337:C:H2'	21:i5:338:G:H4'	1.06	1.05
21:i5:1377:U:OP2	22:A5:102:ARG:CD	2.04	1.05
21:i5:1718:G:C5'	35:j5:24:SER:OG	2.02	1.05
10:C6:145:LYS:HG3	21:i6:1348:G:H4'	1.09	1.05
18:Z6:85:ARG:NH1	21:i6:1596:U:H5	1.45	1.05
37:l2:182:TRP:HB2	37:l2:183:PRO:HA	1.31	1.05
37:l3:182:TRP:HB2	37:l3:183:PRO:HA	1.31	1.05
37:l6:178:ILE:HD12	37:l6:190:ILE:HG23	1.36	1.05
34:S1:105:ASN:ND2	21:i3:1761:U:O2'	1.90	1.05
30:L2:31:GLU:H	23:B5:21:VAL:CG2	1.69	1.05
33:R2:65:PRO:HB2	33:R2:73:LEU:HD22	1.30	1.05
21:i3:1849:G:C2	37:l3:149:ALA:O	2.09	1.05
18:Z4:85:ARG:HD3	21:i4:1598:G:O6	1.55	1.05
24:D4:64:ARG:HG3	29:K4:95:ARG:NH1	1.72	1.05
34:S4:6:PRO:HG3	34:S4:58:GLU:HG2	1.32	1.05
8:f5:105:TYR:CD2	8:f5:106:TYR:CE2	2.43	1.05
18:Z5:85:ARG:HD3	21:i5:1598:G:O6	1.55	1.05
36:k5:22:ILE:HD11	36:k5:50:VAL:HG22	1.39	1.05
10:C1:65:LYS:HG2	10:C1:279:ARG:HH21	1.15	1.05
8:f2:92:LYS:CE	21:i2:1272:C:OP2	2.04	1.05
8:f2:105:TYR:CD2	8:f2:106:TYR:CE2	2.43	1.05
21:i2:1700:C:C2	21:i2:1834:A:N6	2.24	1.05
34:S2:108:ARG:HH22	21:i4:1773:C:C3'	1.70	1.05
11:G4:139:SER:HA	11:G4:142:ARG:HG3	1.30	1.05
8:f5:92:LYS:CE	21:i5:1272:C:OP2	2.04	1.05
24:D5:64:ARG:HG3	29:K5:95:ARG:NH1	1.71	1.05
10:C6:145:LYS:HG3	21:i6:1348:G:C5'	1.86	1.05
36:k6:22:ILE:HD11	36:k6:50:VAL:HG22	1.39	1.05
8:f1:105:TYR:CD2	8:f1:106:TYR:CE2	2.43	1.05
21:i1:211:G:P	18:Z6:41:ARG:NH1	2.29	1.05
21:i1:1172:U:OP1	35:j1:14:LYS:NZ	1.88	1.05
2:U2:17:ILE:HG21	2:U2:94:PRO:HA	1.30	1.05
8:f2:95:ARG:HG3	21:i2:1289:U:OP1	1.56	1.05
8:f3:99:LYS:HG3	21:i3:1285:G:N2	1.22	1.05
23:B4:21:VAL:CA	30:L5:31:GLU:OE2	2.00	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:191:ARG:NE	21:i5:314:U:H5	1.52	1.05
31:P5:15:PHE:HZ	31:P5:112:ILE:CG1	1.68	1.05
31:P5:108:LYS:HB3	31:P5:109:PRO:CD	1.85	1.05
8:f6:93:HIS:HB2	21:i6:1304:U:C4'	1.84	1.05
32:Q6:4:LYS:HZ1	32:Q6:99:TYR:HA	0.96	1.05
36:k3:22:ILE:HD11	36:k3:50:VAL:HG22	1.39	1.05
36:k5:145:VAL:O	36:k5:167:ILE:CB	2.03	1.05
37:l3:166:ILE:HG22	37:l3:170:PHE:CZ	1.92	1.05
13:M1:36:ARG:CZ	21:i1:1310:U:H5	1.31	1.05
21:i1:529:A:N1	21:i1:557:U:O2	1.88	1.05
10:C2:65:LYS:HB3	10:C2:279:ARG:CB	1.85	1.05
8:f3:93:HIS:HB2	21:i3:1304:U:H4'	1.39	1.05
18:Z3:85:ARG:HD3	21:i3:1598:G:O6	1.55	1.05
21:i3:1044:G:O6	36:k3:20:SER:OG	1.71	1.05
31:P3:12:PHE:CB	21:i6:1763:G:C4'	2.35	1.05
21:i4:1173:A:OP1	35:j4:14:LYS:CG	2.05	1.05
21:i4:1377:U:C5	22:A4:102:ARG:NH1	1.99	1.05
11:G5:141:ILE:CA	11:G5:144:LEU:CD2	2.35	1.05
8:f6:80:ARG:HD2	21:i6:1509:U:C4	1.91	1.05
8:f6:105:TYR:CD2	8:f6:106:TYR:CE2	2.43	1.05
18:Z6:85:ARG:HD3	21:i6:1598:G:O6	1.55	1.05
21:i6:1173:A:P	35:j6:17:ARG:HH21	1.78	1.05
36:k2:108:GLY:C	36:k2:166:ASN:HD21	1.60	1.05
36:k2:122:LYS:HE2	36:k2:124:TYR:OH	1.55	1.05
31:P1:41:GLN:NE2	31:P1:84:ILE:HG23	1.71	1.04
8:f2:80:ARG:CD	21:i2:1509:U:N3	2.13	1.04
24:D2:64:ARG:HG3	29:K2:95:ARG:NH1	1.71	1.04
8:f3:130:VAL:HG13	21:i3:1310:U:OP2	1.57	1.04
21:i3:555:A:N7	21:i3:557:U:H5	1.52	1.04
33:R3:57:LEU:HD11	33:R3:66:VAL:HG11	1.39	1.04
18:Z6:70:PRO:CG	18:Z6:88:LEU:HD13	1.58	1.04
21:i6:316:G:N2	21:i6:335:G:N1	2.04	1.04
36:k5:122:LYS:HE2	36:k5:124:TYR:OH	1.56	1.04
36:k6:122:LYS:HE2	36:k6:124:TYR:OH	1.56	1.04
37:l1:178:ILE:CD1	37:l1:190:ILE:HG23	1.77	1.04
37:l5:166:ILE:HG22	37:l5:170:PHE:CZ	1.92	1.04
8:f1:95:ARG:CD	21:i1:1289:U:H5''	1.88	1.04
31:P1:121:ILE:HG13	31:P1:123:TYR:CD2	1.92	1.04
34:S1:6:PRO:HG3	34:S1:58:GLU:HG2	1.31	1.04
10:C2:65:LYS:HB3	10:C2:279:ARG:HB3	1.11	1.04
21:i4:1173:A:P	35:j4:14:LYS:HG2	1.97	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:182:LYS:HG2	21:i5:200:G:H5''	1.36	1.04
31:P4:121:ILE:HG13	31:P4:123:TYR:CD2	1.92	1.04
10:C6:145:LYS:CG	21:i6:1348:G:H4'	1.85	1.04
12:J6:173:VAL:HG12	21:i6:560:A:H5'	1.37	1.04
18:Z6:82:SER:HB3	21:i6:1598:G:H5''	1.36	1.04
33:R6:58:MET:O	33:R6:61:ILE:HG12	1.58	1.04
36:k1:22:ILE:HD11	36:k1:50:VAL:HG22	1.39	1.04
36:k5:95:GLN:HB2	36:k5:134:ILE:HD13	1.05	1.04
11:G1:141:ILE:CA	11:G1:144:LEU:CD2	2.35	1.04
21:i1:693:A:N6	21:i1:734:C:N3	2.05	1.04
31:P1:41:GLN:HB3	31:P1:84:ILE:HD13	1.08	1.04
8:f2:130:VAL:HG13	21:i2:1310:U:OP2	1.57	1.04
21:i2:1852:C:C5	35:j2:5:TRP:CD1	2.44	1.04
22:A3:211:GLU:HG2	33:R3:81:ARG:HH22	0.87	1.04
8:f4:92:LYS:CE	21:i4:1272:C:OP2	2.04	1.04
11:G4:141:ILE:CA	11:G4:144:LEU:CD2	2.35	1.04
30:L4:121:GLN:HG3	30:L4:153:LYS:HE3	1.20	1.04
32:Q4:4:LYS:HZ1	32:Q4:99:TYR:HA	0.97	1.04
8:f5:95:ARG:CD	21:i5:1289:U:H5''	1.88	1.04
8:f5:95:ARG:HG3	21:i5:1289:U:OP1	1.56	1.04
8:f6:93:HIS:HB2	21:i6:1304:U:H5'	1.32	1.04
21:i6:628:A:N3	24:D6:179:GLN:NE2	2.04	1.04
36:k1:122:LYS:HE2	36:k1:124:TYR:OH	1.55	1.04
36:k1:144:CYS:CA	36:k1:168:HIS:O	2.05	1.04
36:k2:22:ILE:HD11	36:k2:50:VAL:HG22	1.38	1.04
36:k2:86:HIS:CE1	36:k2:141:HIS:CB	2.39	1.04
36:k4:122:LYS:HE2	36:k4:124:TYR:OH	1.56	1.04
37:l2:115:VAL:HG12	37:l2:116:THR:H	0.93	1.04
37:l3:178:ILE:HD12	37:l3:190:ILE:HG23	1.36	1.04
2:U1:17:ILE:CG2	2:U1:94:PRO:HA	1.88	1.04
24:D1:64:ARG:HG3	29:K1:95:ARG:NH1	1.71	1.04
11:G2:141:ILE:CA	11:G2:144:LEU:CD2	2.35	1.04
31:P2:96:VAL:HG22	31:P2:116:LEU:HD12	1.04	1.04
2:U3:17:ILE:CG2	2:U3:94:PRO:HA	1.87	1.04
8:f3:92:LYS:CE	21:i3:1272:C:OP2	2.04	1.04
31:P3:121:ILE:CG1	31:P3:123:TYR:CZ	2.38	1.04
8:f4:95:ARG:CD	21:i4:1289:U:H5''	1.88	1.04
34:S5:6:PRO:HG3	34:S5:58:GLU:HG2	1.32	1.04
11:G6:141:ILE:CA	11:G6:144:LEU:CD2	2.35	1.04
12:J6:173:VAL:CG1	21:i6:560:A:H5''	1.86	1.04
31:P6:41:GLN:HB3	31:P6:84:ILE:HD13	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:95:GLN:HB2	36:k2:134:ILE:HD13	1.05	1.04
37:l2:115:VAL:HG12	37:l2:116:THR:N	1.53	1.04
37:l2:166:ILE:HG22	37:l2:170:PHE:CZ	1.92	1.04
37:l4:128:VAL:HG11	37:l4:166:ILE:N	1.73	1.04
8:f1:92:LYS:CE	21:i1:1272:C:OP2	2.04	1.04
15:O1:66:ARG:HH12	28:I3:125:LYS:HG2	1.19	1.04
34:S1:108:ARG:CZ	21:i3:1772:C:H2'	1.88	1.04
2:U2:17:ILE:CG2	2:U2:94:PRO:HA	1.88	1.04
24:D3:64:ARG:HG3	29:K3:95:ARG:NH1	1.71	1.04
31:P3:15:PHE:O	31:P3:16:THR:OG1	1.76	1.04
19:b4:36:LYS:HB2	19:b4:78:SER:OG	1.58	1.04
19:b4:37:CYS:HB3	19:b4:38:PRO:HD2	1.35	1.04
8:f6:93:HIS:HB3	21:i6:1304:U:H5'	1.39	1.04
31:P6:121:ILE:HG13	31:P6:123:TYR:CD2	1.92	1.04
36:k1:94:HIS:CB	36:k1:135:MET:HG2	1.87	1.04
36:k3:122:LYS:HE2	36:k3:124:TYR:OH	1.56	1.04
36:k5:95:GLN:HG3	36:k5:164:ILE:HD11	1.37	1.04
37:l4:166:ILE:HG22	37:l4:170:PHE:CZ	1.92	1.04
37:l5:115:VAL:HG12	37:l5:116:THR:N	1.53	1.04
37:l5:182:TRP:HB2	37:l5:183:PRO:HA	1.31	1.04
37:l6:166:ILE:HG22	37:l6:170:PHE:CZ	1.92	1.04
14:N1:137:PRO:CG	30:L1:154:GLN:HB3	1.87	1.03
8:f2:93:HIS:HB2	21:i2:1304:U:H4'	1.38	1.03
15:O2:63:LYS:HE3	28:I4:163:GLU:CG	1.86	1.03
21:i2:187:G:O2'	21:i2:301:A:OP1	1.76	1.03
21:i3:696:G:N1	21:i3:734:C:H5''	1.73	1.03
10:C4:74:LYS:HE2	10:C4:272:HIS:CB	1.78	1.03
22:A4:211:GLU:HG2	33:R4:81:ARG:HH22	0.88	1.03
21:i5:1689:C:O3'	21:i5:1690:U:P	2.14	1.03
24:D6:64:ARG:HG3	29:K6:95:ARG:NH1	1.72	1.03
36:k1:82:LEU:HD11	36:k1:169:TYR:HA	1.39	1.03
36:k1:168:HIS:NE2	36:k1:174:LEU:HB3	1.73	1.03
36:k2:86:HIS:NE2	36:k2:141:HIS:CB	2.20	1.03
8:f1:130:VAL:HG13	21:i1:1310:U:OP2	1.57	1.03
21:i1:689:U:O4	27:H1:122:LEU:CD1	2.05	1.03
21:i1:1772:C:O2	34:S6:112:GLU:OE2	1.74	1.03
21:i2:1849:G:C6	37:l2:149:ALA:CB	2.39	1.03
8:f3:95:ARG:CD	21:i3:1289:U:H5''	1.88	1.03
20:e3:45:VAL:HG12	21:i3:535:G:H4'	1.07	1.03
8:f4:95:ARG:HG3	21:i4:1289:U:OP1	1.56	1.03
23:B4:21:VAL:HG22	30:L5:31:GLU:CB	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:368:U:C2	36:k3:109:ALA:HB2	1.88	1.03
36:k4:95:GLN:HG3	36:k4:164:ILE:HD11	1.34	1.03
28:I1:125:LYS:HG3	15:O6:66:ARG:HD2	1.35	1.03
8:f2:105:TYR:CE1	8:f2:131:PHE:CD1	2.47	1.03
14:N2:137:PRO:HG2	30:L2:154:GLN:HB3	1.07	1.03
33:R3:61:ILE:O	33:R3:73:LEU:CD1	2.05	1.03
2:U4:17:ILE:CG2	2:U4:94:PRO:HA	1.88	1.03
10:C4:65:LYS:HG2	10:C4:279:ARG:HH21	1.15	1.03
13:M4:36:ARG:CZ	21:i4:1310:U:H5	1.32	1.03
21:i4:1300:U:H2'	31:P4:51:ARG:HH12	0.89	1.03
21:i4:1377:U:OP2	22:A4:102:ARG:NE	1.91	1.03
21:i4:1717:C:O2'	35:j4:21:ARG:HG3	1.59	1.03
8:f5:130:VAL:HG13	21:i5:1310:U:OP2	1.57	1.03
31:P5:121:ILE:HG13	31:P5:123:TYR:CD2	1.92	1.03
36:k3:85:LEU:HD21	36:k3:133:ALA:CB	1.89	1.03
37:I1:166:ILE:HG22	37:I1:170:PHE:CZ	1.92	1.03
37:I3:128:VAL:HG11	37:I3:166:ILE:N	1.73	1.03
8:f1:95:ARG:HG3	21:i1:1289:U:OP1	1.56	1.03
10:C1:145:LYS:HG3	21:i1:1348:G:C5'	1.88	1.03
22:A1:214:GLU:OE1	22:A1:215:GLN:NE2	1.92	1.03
31:P1:41:GLN:HB3	31:P1:84:ILE:CD1	1.87	1.03
8:f2:95:ARG:CD	21:i2:1289:U:H5''	1.88	1.03
20:e2:45:VAL:CG2	21:i2:535:G:H5'	1.85	1.03
8:f3:95:ARG:HG3	21:i3:1289:U:OP1	1.56	1.03
11:G3:141:ILE:CA	11:G3:144:LEU:CD2	2.35	1.03
18:Z4:70:PRO:HB3	18:Z4:88:LEU:HD11	1.39	1.03
33:R4:58:MET:HA	33:R4:61:ILE:CD1	1.87	1.03
8:f5:93:HIS:HB2	21:i5:1304:U:H4'	1.38	1.03
20:e5:39:ASN:CG	21:i5:552:G:OP1	2.00	1.03
21:i6:1700:C:C2	21:i6:1834:A:N6	2.26	1.03
36:k6:95:GLN:HB2	36:k6:134:ILE:HD13	1.32	1.03
36:k6:95:GLN:CG	36:k6:164:ILE:HD11	1.79	1.03
37:I1:180:GLU:HG2	37:I1:181:LYS:HB3	1.41	1.03
22:A1:211:GLU:HG2	33:R1:81:ARG:HH22	0.88	1.03
28:I1:124:LYS:C	15:O6:66:ARG:NH2	2.04	1.03
28:I2:206:LYS:HA	36:k5:56:HIS:NE2	1.72	1.03
31:P2:121:ILE:HG13	31:P2:123:TYR:CD2	1.92	1.03
13:M3:36:ARG:CZ	21:i3:1310:U:H5	1.32	1.03
8:f4:93:HIS:HB2	21:i4:1304:U:H4'	1.39	1.03
8:f5:92:LYS:C	21:i5:1304:U:H4'	1.84	1.03
8:f6:92:LYS:C	21:i6:1304:U:H4'	1.84	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f6:95:ARG:CD	21:i6:1289:U:H5''	1.88	1.03
37:l4:180:GLU:HG2	37:l4:181:LYS:HB3	1.41	1.03
8:f1:80:ARG:HD2	21:i1:1509:U:C4	1.92	1.02
21:i1:1174:U:C5'	35:j1:21:ARG:NH2	2.21	1.02
31:P1:96:VAL:HG22	31:P1:116:LEU:HD12	1.04	1.02
8:f2:92:LYS:C	21:i2:1304:U:H4'	1.84	1.02
8:f3:93:HIS:HB3	21:i3:1304:U:H5'	1.39	1.02
14:N3:129:TYR:CA	14:N3:134:VAL:CG2	2.36	1.02
8:f4:130:VAL:HG13	21:i4:1310:U:OP2	1.56	1.02
21:i4:1044:G:O6	36:k4:20:SER:OG	1.74	1.02
22:A4:205:ARG:HG2	22:A4:210:ILE:HG22	1.41	1.02
10:C5:65:LYS:HG2	10:C5:279:ARG:HH21	1.15	1.02
21:i5:61:A:H4'	21:i5:317:C:H1'	1.41	1.02
21:i5:528:A:C2	21:i5:558:G:C2	2.47	1.02
2:U6:17:ILE:CG2	2:U6:94:PRO:HA	1.88	1.02
18:Z6:70:PRO:HB3	18:Z6:88:LEU:HD11	1.39	1.02
20:e6:45:VAL:CG1	21:i6:534:G:C4'	2.34	1.02
21:i6:13:C:H5'	21:i6:1356:G:O4'	1.58	1.02
36:k1:83:ARG:CG	36:k1:175:TRP:CZ3	2.42	1.02
36:k3:95:GLN:HB2	36:k3:134:ILE:HD13	1.11	1.02
36:k4:22:ILE:HD11	36:k4:50:VAL:HG22	1.38	1.02
21:i1:1707:U:O2	37:l1:153:SER:OG	1.74	1.02
13:M2:111:VAL:HG11	13:M2:114:TYR:CE1	1.94	1.02
21:i2:1772:C:C5'	34:S5:112:GLU:OE2	2.07	1.02
22:A2:211:GLU:HG2	33:R2:81:ARG:HH22	0.88	1.02
8:f3:92:LYS:C	21:i3:1304:U:H4'	1.84	1.02
13:M3:111:VAL:HG11	13:M3:114:TYR:CE1	1.94	1.02
31:P3:96:VAL:HG22	31:P3:116:LEU:HD12	1.04	1.02
31:P3:121:ILE:HG13	31:P3:123:TYR:CD2	1.92	1.02
21:i4:1842:C:OP2	35:j4:2:ARG:NH2	1.91	1.02
8:f5:93:HIS:HB3	21:i5:1304:U:H5'	1.39	1.02
21:i5:61:A:H4'	21:i5:317:C:C1'	1.88	1.02
21:i5:739:C:H2'	21:i5:746:C:N4	1.72	1.02
8:f6:130:VAL:HG13	21:i6:1310:U:OP2	1.57	1.02
13:M6:111:VAL:HG11	13:M6:114:TYR:CE1	1.94	1.02
36:k4:95:GLN:HB2	36:k4:134:ILE:HD12	1.34	1.02
8:f1:92:LYS:C	21:i1:1304:U:H4'	1.84	1.02
21:i1:1843:G:OP2	35:j1:4:LYS:HD3	1.58	1.02
31:P2:121:ILE:CG1	31:P2:123:TYR:CZ	2.38	1.02
8:f3:105:TYR:CZ	8:f3:131:PHE:CG	2.46	1.02
16:W3:118:ARG:NE	21:i3:735:C:O2'	1.92	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:105:TYR:HE1	8:f4:131:PHE:CD1	1.78	1.02
21:i4:1700:C:C2	21:i4:1834:A:N6	2.28	1.02
21:i4:1829:G:OP1	37:l4:167:GLN:OE1	1.78	1.02
21:i4:1841:C:C3'	35:j4:2:ARG:NH2	2.23	1.02
23:B4:21:VAL:CG2	30:L5:31:GLU:CA	2.23	1.02
8:f5:105:TYR:CE1	8:f5:131:PHE:CD1	2.47	1.02
13:M5:14:VAL:HG13	13:M5:127:TYR:CE1	1.92	1.02
8:f6:80:ARG:NH1	21:i6:1509:U:C4	2.27	1.02
36:k5:95:GLN:HG2	36:k5:164:ILE:CD1	1.88	1.02
36:k6:94:HIS:CB	36:k6:133:ALA:O	2.06	1.02
37:l6:128:VAL:HG11	37:l6:166:ILE:N	1.73	1.02
37:l6:180:GLU:HG2	37:l6:181:LYS:HB3	1.41	1.02
10:C1:273:LEU:HB3	10:C1:280:VAL:CG1	1.90	1.02
21:i2:1751:C:N4	21:i2:1781:A:C2	2.28	1.02
8:f4:105:TYR:CE1	8:f4:131:PHE:CD1	2.47	1.02
10:C4:273:LEU:HB3	10:C4:280:VAL:CG1	1.90	1.02
21:i4:693:A:H2	21:i4:738:C:O2'	1.17	1.02
13:M5:111:VAL:HG11	13:M5:114:TYR:CE1	1.94	1.02
8:f6:105:TYR:CE1	8:f6:131:PHE:CD1	2.47	1.02
36:k1:146:GLY:HA2	36:k1:167:ILE:HG12	1.41	1.02
36:k2:95:GLN:N	36:k2:133:ALA:O	1.91	1.02
37:l4:178:ILE:HD12	37:l4:190:ILE:HG23	1.36	1.02
13:M1:111:VAL:HG11	13:M1:114:TYR:CE1	1.94	1.02
14:N2:137:PRO:CG	30:L2:154:GLN:CB	2.37	1.02
21:i3:1751:C:C4	21:i3:1781:A:C2	2.46	1.02
21:i3:1852:C:OP2	35:j3:1:MET:CB	2.08	1.02
31:P3:12:PHE:CD1	21:i6:1763:G:C5'	2.43	1.02
10:C4:273:LEU:CG	10:C4:280:VAL:HG11	1.90	1.02
28:I4:207:GLY:C	36:k2:12:SER:CB	2.33	1.02
2:U5:17:ILE:CG2	2:U5:94:PRO:HA	1.88	1.02
8:f5:96:LYS:O	21:i5:1288:U:H5'	1.60	1.02
13:M6:36:ARG:NH2	21:i6:1310:U:H5	1.41	1.02
36:k1:83:ARG:HG2	36:k1:175:TRP:CH2	1.95	1.02
37:l2:128:VAL:HG11	37:l2:166:ILE:N	1.73	1.02
28:I1:196:GLU:CD	28:I1:200:ARG:HH21	1.68	1.01
31:P1:41:GLN:CB	31:P1:84:ILE:HD13	1.90	1.01
8:f3:105:TYR:CE1	8:f3:131:PHE:CD1	2.47	1.01
8:f4:96:LYS:O	21:i4:1288:U:H5'	1.60	1.01
10:C4:65:LYS:HA	10:C4:277:HIS:CE1	1.95	1.01
13:M4:111:VAL:HG11	13:M4:114:TYR:CE1	1.94	1.01
21:i4:1842:C:OP2	35:j4:2:ARG:CZ	2.07	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:94:ARG:NH2	21:i5:1737:G:OP1	1.93	1.01
31:P5:96:VAL:HG22	31:P5:116:LEU:HD12	1.04	1.01
8:f6:95:ARG:HG3	21:i6:1289:U:OP1	1.56	1.01
21:i6:1175:G:P	35:j6:21:ARG:NH1	2.31	1.01
22:A6:205:ARG:HG3	22:A6:210:ILE:HG21	1.42	1.01
22:A6:214:GLU:OE1	22:A6:215:GLN:NE2	1.93	1.01
36:k4:170:LEU:HD23	36:k4:171:ASN:N	1.74	1.01
37:l6:115:VAL:HG12	37:l6:116:THR:N	1.53	1.01
8:f1:105:TYR:CE1	8:f1:131:PHE:CD1	2.47	1.01
10:C1:273:LEU:CG	10:C1:280:VAL:HG11	1.91	1.01
20:e1:43:VAL:HG21	21:i1:551:U:OP1	1.60	1.01
21:i1:1236:G:O6	34:S1:137:LYS:CE	2.09	1.01
22:A1:205:ARG:HG2	22:A1:210:ILE:HG22	1.41	1.01
28:I1:158:ILE:CD1	15:O6:63:LYS:NZ	2.22	1.01
2:U2:19:ARG:HD3	2:U2:119:ALA:CA	1.91	1.01
21:i2:187:G:C2	21:i2:213:G:N3	2.27	1.01
31:P3:34:MET:O	31:P3:42:ARG:CD	2.07	1.01
2:U4:19:ARG:HD3	2:U4:119:ALA:CA	1.91	1.01
15:O4:66:ARG:NH1	28:I5:125:LYS:HD3	1.74	1.01
21:i4:1172:U:H4'	35:j4:10:MET:HE2	1.39	1.01
30:L4:121:GLN:CG	30:L4:153:LYS:CE	2.27	1.01
31:P4:119:PHE:HD1	34:S4:120:HIS:N	1.57	1.01
8:f5:92:LYS:O	21:i5:1304:U:H4'	0.84	1.01
18:Z5:70:PRO:HB3	18:Z5:88:LEU:HD11	1.39	1.01
31:P5:121:ILE:CG1	31:P5:123:TYR:CZ	2.38	1.01
8:f6:96:LYS:O	21:i6:1288:U:H5'	1.60	1.01
10:C6:145:LYS:CG	21:i6:1348:G:C5'	2.38	1.01
22:A6:211:GLU:HG2	33:R6:81:ARG:NH2	1.59	1.01
37:l5:128:VAL:HG11	37:l5:166:ILE:N	1.73	1.01
8:f1:92:LYS:O	21:i1:1304:U:H4'	0.83	1.01
22:A1:89:LYS:CE	33:R1:82:ASP:OD1	2.09	1.01
8:f2:92:LYS:O	21:i2:1304:U:H4'	0.83	1.01
8:f2:105:TYR:CZ	8:f2:131:PHE:CG	2.46	1.01
21:i3:696:G:N2	21:i3:734:C:H4'	1.75	1.01
8:f4:92:LYS:C	21:i4:1304:U:H4'	1.84	1.01
26:F4:182:LYS:C	21:i5:201:C:OP2	2.04	1.01
8:f6:105:TYR:HE1	8:f6:131:PHE:CD1	1.77	1.01
21:i6:628:A:C2	24:D6:179:GLN:NE2	2.26	1.01
22:A6:211:GLU:HG2	33:R6:81:ARG:HH22	0.88	1.01
36:k1:86:HIS:HB3	36:k1:141:HIS:CD2	1.95	1.01
36:k2:86:HIS:CB	36:k2:141:HIS:HD2	1.71	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k3:95:GLN:CG	36:k3:164:ILE:HD13	1.67	1.01
36:k3:95:GLN:HG2	36:k3:164:ILE:HD13	1.04	1.01
36:k4:68:LEU:CD1	36:k4:174:LEU:HD11	1.88	1.01
37:l5:178:ILE:HD12	37:l5:190:ILE:HG23	1.36	1.01
37:l5:180:GLU:HG2	37:l5:181:LYS:HB3	1.41	1.01
8:f1:96:LYS:O	21:i1:1288:U:H5'	1.60	1.01
10:C1:65:LYS:HA	10:C1:277:HIS:CE1	1.96	1.01
13:M1:14:VAL:HG13	13:M1:127:TYR:CE1	1.92	1.01
21:i1:464:A:N6	8:f2:116:ARG:O	1.93	1.01
34:S1:4:VAL:CG2	34:S1:58:GLU:OE1	2.09	1.01
11:G2:186:GLN:HA	21:i2:331:C:N4	1.74	1.01
21:i2:61:A:C2	21:i2:334:C:C2'	2.43	1.01
21:i2:1377:U:OP2	22:A2:102:ARG:CD	2.09	1.01
28:I2:200:ARG:HD2	21:i5:970:G:N2	1.72	1.01
31:P2:119:PHE:HD1	34:S2:120:HIS:N	1.58	1.01
2:U3:19:ARG:HD3	2:U3:119:ALA:CA	1.91	1.01
8:f3:92:LYS:O	21:i3:1304:U:H4'	0.83	1.01
13:M3:40:LYS:HZ1	21:i3:1310:U:H5''	1.20	1.01
22:A3:205:ARG:HG2	22:A3:210:ILE:HG22	1.41	1.01
26:F3:127:ARG:O	26:F3:137:GLN:N	1.94	1.01
11:G5:139:SER:CA	11:G5:142:ARG:HG3	1.91	1.01
20:e5:45:VAL:CG1	21:i5:535:G:C4'	2.38	1.01
26:F5:127:ARG:O	26:F5:137:GLN:N	1.94	1.01
31:P5:119:PHE:HD1	34:S5:120:HIS:N	1.58	1.01
2:U6:19:ARG:HD3	2:U6:119:ALA:CA	1.91	1.01
8:f6:96:LYS:HD3	21:i6:1307:U:C6	1.96	1.01
36:k2:83:ARG:CZ	36:k2:175:TRP:CZ2	2.41	1.01
2:U1:19:ARG:HD3	2:U1:119:ALA:CA	1.90	1.01
21:i1:316:G:C6	21:i1:335:G:N2	2.29	1.01
33:R1:65:PRO:CB	33:R1:74:GLN:HE22	1.72	1.01
8:f2:105:TYR:HE1	8:f2:131:PHE:CD1	1.78	1.01
11:G2:139:SER:CA	11:G2:142:ARG:HG3	1.91	1.01
21:i2:1621:U:H4'	31:P2:115:TYR:OH	1.61	1.01
21:i3:1378:A:OP2	22:A3:105:PRO:HG3	1.58	1.01
21:i3:1829:G:P	37:l3:126:LYS:HE3	2.01	1.01
8:f4:92:LYS:O	21:i4:1304:U:H4'	0.83	1.01
21:i4:739:C:H41	21:i4:746:C:N4	1.57	1.01
8:f5:105:TYR:HE1	8:f5:131:PHE:CD1	1.78	1.01
10:C5:65:LYS:HA	10:C5:277:HIS:CE1	1.95	1.01
21:i5:1377:U:P	22:A5:102:ARG:HE	1.84	1.01
21:i5:1829:G:OP1	37:l5:167:GLN:OE1	1.78	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A5:89:LYS:CE	33:R5:82:ASP:OD1	2.09	1.01
8:f6:92:LYS:O	21:i6:1304:U:H4'	0.83	1.01
10:C6:65:LYS:HA	10:C6:277:HIS:CE1	1.96	1.01
11:G6:139:SER:CA	11:G6:142:ARG:HG3	1.91	1.01
21:i6:1144:A:OP1	21:i6:1355:C:OP1	1.79	1.01
30:L6:121:GLN:HG3	30:L6:153:LYS:HE2	1.38	1.01
36:k2:95:GLN:CB	36:k2:134:ILE:HD13	1.78	1.01
36:k5:94:HIS:C	36:k5:133:ALA:O	2.04	1.01
36:k5:95:GLN:HG2	36:k5:164:ILE:HD13	1.39	1.01
8:f1:93:HIS:HB2	21:i1:1304:U:H4'	1.39	1.00
23:B1:23:ASP:OD1	23:B1:24:PRO:HD2	1.60	1.00
26:F1:127:ARG:O	26:F1:137:GLN:N	1.94	1.00
26:F2:127:ARG:O	26:F2:137:GLN:N	1.94	1.00
34:S3:4:VAL:CG2	34:S3:58:GLU:OE1	2.09	1.00
11:G4:139:SER:CA	11:G4:142:ARG:HG3	1.91	1.00
31:P4:96:VAL:HG22	31:P4:116:LEU:HD12	1.04	1.00
10:C5:273:LEU:CG	10:C5:280:VAL:HG11	1.90	1.00
28:I5:196:GLU:CD	28:I5:200:ARG:HH21	1.69	1.00
22:A6:89:LYS:CE	33:R6:82:ASP:OD1	2.09	1.00
36:k1:10:ASN:ND2	36:k1:56:HIS:CE1	2.27	1.00
36:k4:145:VAL:HB	36:k4:167:ILE:HB	1.38	1.00
8:f1:111:ASN:HA	17:Y2:113:ARG:HD3	1.41	1.00
20:e1:45:VAL:HG21	21:i1:536:A:OP1	1.60	1.00
21:i1:186:C:O2'	21:i1:187:G:O4'	1.77	1.00
21:i1:1300:U:C1'	31:P1:51:ARG:HH12	1.75	1.00
22:A1:205:ARG:HG3	22:A1:210:ILE:HG21	1.42	1.00
8:f2:93:HIS:HB3	21:i2:1304:U:H5'	1.39	1.00
8:f2:96:LYS:HD3	21:i2:1307:U:C6	1.96	1.00
8:f3:105:TYR:HE1	8:f3:131:PHE:CD1	1.78	1.00
10:C3:273:LEU:HB3	10:C3:280:VAL:CG1	1.90	1.00
21:i3:628:A:H62	24:D3:145:GLN:CG	1.75	1.00
22:A3:89:LYS:CE	33:R3:82:ASP:OD1	2.09	1.00
26:F3:182:LYS:HE3	21:i6:201:C:OP2	1.60	1.00
21:i4:1708:C:H1'	37:I4:153:SER:HB2	1.00	1.00
2:U5:19:ARG:HD3	2:U5:119:ALA:CA	1.91	1.00
8:f5:96:LYS:HD3	21:i5:1307:U:C6	1.97	1.00
21:i5:557:U:C2'	21:i5:558:G:N7	2.24	1.00
8:f6:93:HIS:HB2	21:i6:1304:U:H4'	1.39	1.00
10:C6:273:LEU:HB3	10:C6:280:VAL:CG1	1.90	1.00
10:C6:273:LEU:CG	10:C6:280:VAL:HG11	1.91	1.00
36:k2:5:PHE:HE2	36:k2:177:MET:SD	1.84	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f1:96:LYS:HD3	21:i1:1307:U:C6	1.97	1.00
14:N1:131:THR:O	30:L1:152:LYS:CG	2.08	1.00
21:i1:52:G:P	8:f2:110:GLU:HG2	2.02	1.00
21:i1:1763:G:C3'	34:S6:116:LYS:HD2	1.92	1.00
21:i2:1300:U:C1'	31:P2:51:ARG:HH12	1.74	1.00
22:A2:205:ARG:HG2	22:A2:210:ILE:HG22	1.41	1.00
8:f3:96:LYS:HD3	21:i3:1307:U:C6	1.96	1.00
21:i3:628:A:N6	24:D3:145:GLN:CG	2.24	1.00
13:M4:40:LYS:HZ1	21:i4:1310:U:H5''	1.20	1.00
15:O4:63:LYS:HZ3	28:I5:163:GLU:HG3	0.98	1.00
8:f5:141:CYS:CB	38:f5:500:ZN:ZN	1.40	1.00
14:N5:129:TYR:O	14:N5:134:VAL:HG23	1.55	1.00
20:e5:45:VAL:HG11	21:i5:535:G:H4'	1.37	1.00
21:i5:1621:U:H4'	31:P5:115:TYR:OH	1.62	1.00
21:i5:1709:G:OP1	37:I5:151:LYS:NZ	1.95	1.00
21:i5:1849:G:OP2	37:I5:146:ARG:NH1	1.94	1.00
22:A5:205:ARG:HG2	22:A5:210:ILE:HG22	1.41	1.00
14:N6:133:ARG:HH11	30:L6:152:LYS:HB3	0.88	1.00
20:e6:43:VAL:HG11	21:i6:551:U:H1'	1.42	1.00
21:i6:1300:U:C1'	31:P6:51:ARG:HH12	1.74	1.00
26:F6:127:ARG:O	26:F6:137:GLN:N	1.94	1.00
31:P6:41:GLN:CD	31:P6:84:ILE:HG23	1.85	1.00
31:P6:119:PHE:HD1	34:S6:120:HIS:N	1.58	1.00
36:k6:95:GLN:HG3	36:k6:164:ILE:HD13	1.03	1.00
11:G1:139:SER:CA	11:G1:142:ARG:HG3	1.91	1.00
21:i1:1621:U:H4'	31:P1:115:TYR:OH	1.62	1.00
18:Z2:70:PRO:HB3	18:Z2:88:LEU:HD11	1.39	1.00
22:A2:89:LYS:CE	33:R2:82:ASP:OD1	2.08	1.00
21:i3:1300:U:C1'	31:P3:51:ARG:HH12	1.74	1.00
8:f4:93:HIS:HB3	21:i4:1304:U:H5'	1.40	1.00
34:S4:4:VAL:CG2	34:S4:58:GLU:OE1	2.09	1.00
21:i6:1621:U:H4'	31:P6:115:TYR:OH	1.62	1.00
21:i6:1849:G:O6	37:I6:149:ALA:HB1	1.60	1.00
32:Q6:4:LYS:NZ	32:Q6:99:TYR:CA	2.16	1.00
21:i1:185:G:N2	21:i1:214:U:O2	1.94	1.00
21:i1:1378:A:P	22:A1:132:GLN:NE2	2.34	1.00
10:C2:273:LEU:CG	10:C2:280:VAL:HG11	1.90	1.00
18:Z3:70:PRO:HB3	18:Z3:88:LEU:HD11	1.39	1.00
21:i3:1236:G:O6	34:S3:137:LYS:CE	2.09	1.00
21:i3:1613:G:OP2	31:P3:39:ALA:HB3	1.59	1.00
21:i5:1615:U:OP2	31:P5:43:ARG:NH2	1.95	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z6:83:LEU:HD23	34:S6:55:ARG:HH21	1.27	1.00
36:k1:10:ASN:ND2	36:k1:56:HIS:ND1	2.10	1.00
36:k1:86:HIS:CG	36:k1:141:HIS:CD2	2.49	1.00
36:k2:5:PHE:CE2	36:k2:177:MET:SD	2.55	1.00
18:Z1:70:PRO:HB3	18:Z1:88:LEU:HD11	1.39	1.00
31:P1:119:PHE:HD1	34:S1:120:HIS:N	1.58	1.00
8:f3:96:LYS:O	21:i3:1288:U:H5'	1.60	1.00
8:f4:80:ARG:HD2	21:i4:1509:U:C4	1.96	1.00
8:f4:96:LYS:HD3	21:i4:1307:U:C6	1.97	1.00
11:G4:142:ARG:HD2	11:G4:147:LEU:CD1	1.92	1.00
13:M4:14:VAL:HG13	13:M4:127:TYR:CE1	1.92	1.00
22:A4:89:LYS:CE	33:R4:82:ASP:OD1	2.09	1.00
22:A5:205:ARG:HG3	22:A5:210:ILE:HG21	1.41	1.00
30:L5:121:GLN:HG3	30:L5:153:LYS:HE2	1.43	1.00
8:f1:105:TYR:HE1	8:f1:131:PHE:CD1	1.78	1.00
34:S2:108:ARG:NH2	21:i4:1773:C:C1'	2.23	1.00
10:C3:65:LYS:HA	10:C3:277:HIS:CE1	1.96	1.00
10:C3:273:LEU:CG	10:C3:280:VAL:HG11	1.91	1.00
31:P3:119:PHE:HD1	34:S3:120:HIS:N	1.58	1.00
8:f4:93:HIS:CB	21:i4:1304:U:C5'	2.39	1.00
11:G5:142:ARG:HD2	11:G5:147:LEU:CD1	1.92	1.00
11:G6:142:ARG:HD2	11:G6:147:LEU:CD1	1.91	1.00
13:M6:14:VAL:HG13	13:M6:127:TYR:CE1	1.92	1.00
21:i6:1351:G:C6	21:i6:1352:G:O6	2.15	1.00
36:k3:10:ASN:HA	36:k3:56:HIS:ND1	1.77	1.00
21:i1:316:G:C6	21:i1:335:G:C2	2.49	0.99
21:i1:696:G:C2	21:i1:734:C:H5''	1.97	0.99
34:S2:4:VAL:CG2	34:S2:58:GLU:OE1	2.09	0.99
13:M3:14:VAL:HG13	13:M3:127:TYR:CE1	1.92	0.99
10:C5:273:LEU:HB3	10:C5:280:VAL:CG1	1.90	0.99
22:A5:211:GLU:HG2	33:R5:81:ARG:HH22	0.87	0.99
21:i6:1236:G:O6	34:S6:137:LYS:CE	2.09	0.99
31:P1:121:ILE:CG1	31:P1:123:TYR:CZ	2.38	0.99
8:f2:96:LYS:O	21:i2:1288:U:H5'	1.60	0.99
15:O2:66:ARG:NE	28:I4:125:LYS:HD2	1.74	0.99
11:G3:139:SER:CA	11:G3:142:ARG:HG3	1.91	0.99
21:i4:1236:G:O6	34:S4:137:LYS:CE	2.09	0.99
26:F4:184:SER:CA	21:i5:202:G:OP2	2.10	0.99
26:F4:184:SER:OG	21:i5:202:G:OP2	1.77	0.99
18:Z5:82:SER:CB	21:i5:1598:G:H5''	1.92	0.99
21:i5:1236:G:O6	34:S5:137:LYS:CE	2.09	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f6:105:TYR:CZ	8:f6:131:PHE:CG	2.46	0.99
34:S6:4:VAL:CG2	34:S6:58:GLU:OE1	2.09	0.99
36:k2:86:HIS:HB3	36:k2:141:HIS:CD2	1.98	0.99
36:k3:95:GLN:CB	36:k3:134:ILE:HD13	1.87	0.99
8:f1:93:HIS:CB	21:i1:1304:U:C5'	2.39	0.99
21:i1:696:G:N2	21:i1:734:C:C5'	2.24	0.99
24:D2:64:ARG:HG3	29:K2:95:ARG:CZ	1.93	0.99
21:i3:1621:U:H4'	31:P3:115:TYR:OH	1.62	0.99
14:N4:133:ARG:CD	30:L4:152:LYS:HE3	1.92	0.99
21:i5:1828:C:H4'	37:l5:155:GLY:N	1.75	0.99
34:S5:4:VAL:CG2	34:S5:58:GLU:OE1	2.09	0.99
31:P6:34:MET:HB3	31:P6:42:ARG:HG3	1.44	0.99
36:k2:170:LEU:CG	36:k2:171:ASN:H	1.75	0.99
30:L1:121:GLN:HB3	30:L1:153:LYS:HD2	1.44	0.99
11:G2:193:ALA:CB	21:i2:331:C:OP1	2.10	0.99
21:i2:318:A:N1	21:i2:333:G:C2	2.29	0.99
13:M3:14:VAL:HG11	13:M3:127:TYR:HE1	0.83	0.99
13:M6:14:VAL:HG11	13:M6:127:TYR:HE1	0.83	0.99
21:i6:1300:U:H2'	31:P6:51:ARG:HH12	0.83	0.99
36:k4:145:VAL:HG12	36:k4:167:ILE:HG13	1.44	0.99
8:f1:93:HIS:HB3	21:i1:1304:U:H5'	1.39	0.99
8:f1:99:LYS:HG3	21:i1:1285:G:N2	1.22	0.99
15:O1:66:ARG:NH1	28:I3:125:LYS:CD	2.18	0.99
21:i1:1069:U:OP2	36:k1:18:LYS:NZ	1.95	0.99
21:i2:1236:G:O6	34:S2:137:LYS:CE	2.09	0.99
21:i4:211:G:C6	21:i4:212:C:N3	2.29	0.99
21:i4:1300:U:C1'	31:P4:51:ARG:HH12	1.75	0.99
8:f5:87:THR:HG21	8:f5:90:LYS:HZ1	1.28	0.99
24:D5:64:ARG:HG3	29:K5:95:ARG:CZ	1.93	0.99
32:Q5:4:LYS:HZ1	32:Q5:99:TYR:HA	0.97	0.99
10:C6:68:ARG:CZ	10:C6:277:HIS:CB	2.41	0.99
22:A6:205:ARG:HG2	22:A6:210:ILE:HG22	1.41	0.99
36:k4:10:ASN:HA	36:k4:56:HIS:ND1	1.77	0.99
36:k4:83:ARG:NH2	36:k4:175:TRP:NE1	2.06	0.99
21:i1:556:U:O2'	21:i1:558:G:OP2	1.78	0.99
21:i1:1615:U:OP2	31:P1:43:ARG:NH1	1.94	0.99
18:Z2:82:SER:CB	21:i2:1598:G:H5''	1.93	0.99
21:i2:368:U:C2	36:k5:109:ALA:HB1	1.96	0.99
21:i4:1842:C:H3'	35:j4:4:LYS:NZ	1.76	0.99
22:A4:205:ARG:HG3	22:A4:210:ILE:HG21	1.42	0.99
13:M5:40:LYS:HZ1	21:i5:1310:U:H5''	1.19	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J6:173:VAL:HB	21:i6:561:A:OP2	1.63	0.99
31:P6:96:VAL:HG22	31:P6:116:LEU:HD12	1.03	0.99
36:k3:86:HIS:HB3	36:k3:141:HIS:HD2	1.24	0.99
36:k4:7:GLU:OE1	36:k4:177:MET:HG3	1.62	0.99
36:k5:83:ARG:NH2	36:k5:175:TRP:CD1	2.31	0.99
21:i1:1751:C:C4	21:i1:1782:G:O6	2.14	0.99
10:C2:65:LYS:HA	10:C2:277:HIS:CE1	1.95	0.99
11:G3:143:LYS:HD3	21:i3:1778:C:OP1	1.62	0.99
18:Z5:82:SER:CB	21:i5:1598:G:H2'	1.93	0.99
12:J6:173:VAL:CG1	21:i6:560:A:C5'	2.40	0.99
24:D6:64:ARG:HG3	29:K6:95:ARG:CZ	1.93	0.99
26:F6:137:GLN:CB	26:F6:204:ARG:C	2.34	0.99
37:l3:180:GLU:HG2	37:l3:181:LYS:HB3	1.41	0.99
34:S2:108:ARG:HH22	21:i4:1773:C:C2'	1.75	0.99
21:i5:1300:U:C1'	31:P5:51:ARG:HH12	1.74	0.99
21:i5:1751:C:N4	21:i5:1783:C:O2	1.96	0.99
13:M6:36:ARG:NH1	21:i6:1310:U:H5	1.30	0.99
18:Z6:82:SER:CB	21:i6:1598:G:H5''	1.93	0.99
11:G1:142:ARG:HD2	11:G1:147:LEU:CD1	1.92	0.99
21:i1:315:C:N3	21:i1:336:A:C2	2.30	0.99
21:i1:556:U:H5	21:i1:588:G:H1'	1.16	0.99
28:I1:205:ARG:HH11	36:k6:56:HIS:HE1	1.04	0.99
11:G2:142:ARG:HD2	11:G2:147:LEU:CD1	1.92	0.99
21:i2:688:U:O4	27:H2:100:ILE:HG22	1.63	0.99
27:H4:163:GLN:NE2	27:H4:189:PHE:CE2	2.21	0.99
21:i5:1300:U:H2'	31:P5:51:ARG:HH12	0.83	0.99
20:e1:43:VAL:HG11	21:i1:551:U:OP1	1.63	0.99
21:i4:1621:U:H4'	31:P4:115:TYR:OH	1.62	0.99
20:e5:31:ARG:NH1	21:i5:525:A:O3'	1.95	0.99
21:i5:1172:U:C4'	35:j5:10:MET:CE	2.40	0.99
36:k2:10:ASN:HA	36:k2:56:HIS:ND1	1.78	0.99
37:l1:128:VAL:HG11	37:l1:166:ILE:N	1.73	0.99
13:M1:36:ARG:NH2	21:i1:1310:U:H5	1.41	0.98
15:O2:65:ASP:HB2	28:I4:123:ARG:NH2	1.74	0.98
21:i2:1772:C:H5'	34:S5:112:GLU:OE2	1.62	0.98
8:f5:93:HIS:CB	21:i5:1304:U:C5'	2.39	0.98
8:f6:87:THR:HG21	8:f6:90:LYS:HZ1	1.19	0.98
10:C6:74:LYS:HE2	10:C6:272:HIS:CB	1.79	0.98
37:l6:127:TYR:HB2	37:l6:169:ASP:CB	1.93	0.98
18:Z1:85:ARG:HG2	21:i1:1597:C:OP2	1.62	0.98
20:e1:45:VAL:HG11	21:i1:535:G:O3'	0.81	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a2:99:PRO:HB2	5:a2:101:PHE:CE2	1.98	0.98
13:M2:14:VAL:HG13	13:M2:127:TYR:CE1	1.92	0.98
13:M4:14:VAL:HG11	13:M4:127:TYR:HE1	0.83	0.98
20:e4:8:ARG:NH1	20:e4:11:LYS:CD	2.26	0.98
21:i4:692:G:C5'	21:i4:734:C:N4	2.22	0.98
33:R4:58:MET:HG3	33:R4:61:ILE:HD11	1.43	0.98
36:k1:145:VAL:C	36:k1:167:ILE:CG1	2.36	0.98
18:Z1:83:LEU:HD23	34:S1:55:ARG:HH21	1.26	0.98
20:e1:43:VAL:HG11	21:i1:551:U:P	2.03	0.98
21:i1:186:C:O2'	21:i1:187:G:C5'	2.09	0.98
13:M2:104:VAL:HG11	21:i2:1313:A:H62	1.27	0.98
13:M4:104:VAL:HG11	21:i4:1313:A:H62	1.28	0.98
18:Z4:83:LEU:HD23	34:S4:55:ARG:HH21	1.27	0.98
21:i4:1828:C:H4'	37:l4:155:GLY:N	1.77	0.98
5:a5:99:PRO:HB2	5:a5:101:PHE:CE2	1.98	0.98
30:L5:124:ASP:HB2	30:L5:147:LYS:HG2	1.46	0.98
36:k3:144:CYS:HB2	36:k3:168:HIS:O	1.61	0.98
37:l1:127:TYR:HB2	37:l1:169:ASP:CB	1.93	0.98
20:e1:45:VAL:HB	21:i1:535:G:C2'	1.94	0.98
10:C2:65:LYS:HG2	10:C2:279:ARG:NH2	1.78	0.98
23:B2:22:VAL:HG23	30:L4:31:GLU:CD	1.89	0.98
5:a3:99:PRO:HB2	5:a3:101:PHE:CE2	1.98	0.98
10:C3:65:LYS:HG2	10:C3:279:ARG:NH2	1.78	0.98
11:G3:142:ARG:HD2	11:G3:147:LEU:CD1	1.91	0.98
22:A3:205:ARG:HG3	22:A3:210:ILE:HG21	1.42	0.98
2:U4:19:ARG:CD	2:U4:119:ALA:CB	2.42	0.98
20:e2:35:ARG:HH12	21:i2:526:A:H5'	1.27	0.98
18:Z3:82:SER:CB	21:i3:1598:G:H5''	1.92	0.98
21:i4:1849:G:H5''	37:l4:146:ARG:HH21	1.22	0.98
18:Z5:70:PRO:HG2	18:Z5:88:LEU:CD1	1.94	0.98
21:i5:1700:C:C2	21:i5:1834:A:N6	2.31	0.98
36:k3:143:LEU:O	36:k3:169:TYR:CB	2.11	0.98
18:Z2:85:ARG:HG2	21:i2:1597:C:OP2	1.62	0.98
21:i2:187:G:O2'	21:i2:301:A:OP2	1.80	0.98
21:i3:528:A:N1	21:i3:558:G:N1	1.96	0.98
18:Z4:82:SER:CB	21:i4:1598:G:H2'	1.93	0.98
21:i4:211:G:C2	21:i4:212:C:O2	2.17	0.98
21:i4:1852:C:OP2	35:j4:1:MET:HB2	1.64	0.98
10:C5:68:ARG:CZ	10:C5:277:HIS:CB	2.41	0.98
26:F6:137:GLN:HA	26:F6:203:ASN:HB2	1.45	0.98
31:P6:34:MET:O	31:P6:42:ARG:NE	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:22:ILE:CG1	36:k2:50:VAL:HG21	1.94	0.98
36:k4:83:ARG:NH1	36:k4:175:TRP:CZ2	2.32	0.98
8:f1:105:TYR:CZ	8:f1:131:PHE:CG	2.46	0.98
10:C3:68:ARG:CZ	10:C3:277:HIS:CB	2.41	0.98
31:P3:12:PHE:CD1	21:i6:1763:G:H5''	1.99	0.98
26:F4:127:ARG:O	26:F4:137:GLN:N	1.94	0.98
13:M5:104:VAL:HG11	21:i5:1313:A:H62	1.28	0.98
21:i5:1828:C:C4'	37:l5:154:CYS:HA	1.92	0.98
8:f6:95:ARG:CB	21:i6:1289:U:OP2	2.12	0.98
10:C6:145:LYS:HG2	21:i6:1348:G:H5'	1.45	0.98
36:k3:22:ILE:CG1	36:k3:50:VAL:HG21	1.94	0.98
36:k6:145:VAL:O	36:k6:167:ILE:HG13	1.51	0.98
36:k6:170:LEU:HD11	36:k6:175:TRP:CH2	1.98	0.98
37:l5:127:TYR:HB2	37:l5:169:ASP:CB	1.93	0.98
18:Z1:82:SER:CB	21:i1:1598:G:H5''	1.93	0.98
20:e1:45:VAL:HG21	21:i1:536:A:P	2.03	0.98
32:Q1:4:LYS:NZ	32:Q1:99:TYR:CA	2.16	0.98
11:G2:190:ARG:NH2	21:i2:332:G:N7	2.12	0.98
33:R3:57:LEU:HD11	33:R3:66:VAL:CG1	1.92	0.98
10:C4:68:ARG:CZ	10:C4:277:HIS:CB	2.41	0.98
21:i4:1615:U:OP2	31:P4:43:ARG:NH2	1.96	0.98
21:i5:187:G:N2	21:i5:213:G:C4	2.32	0.98
5:a1:99:PRO:HB2	5:a1:101:PHE:CE2	1.98	0.98
10:C1:280:VAL:O	22:A1:70:ASN:ND2	1.97	0.98
8:f2:95:ARG:HB3	21:i2:1289:U:OP2	1.64	0.98
10:C4:65:LYS:HG2	10:C4:279:ARG:NH2	1.78	0.98
18:Z6:85:ARG:HG2	21:i6:1597:C:OP2	1.63	0.98
36:k1:83:ARG:HG2	36:k1:175:TRP:CZ3	1.98	0.98
36:k4:95:GLN:CB	36:k4:134:ILE:HD12	1.91	0.98
2:U1:19:ARG:CD	2:U1:119:ALA:CB	2.42	0.98
10:C1:68:ARG:NH2	10:C1:276:THR:CB	2.19	0.98
21:i1:1174:U:H5''	35:j1:21:ARG:HH22	1.18	0.98
8:f2:93:HIS:CB	21:i2:1304:U:C5'	2.39	0.98
10:C2:68:ARG:CZ	10:C2:277:HIS:CB	2.41	0.98
11:G2:183:ARG:NH1	21:i2:317:C:OP1	1.97	0.98
13:M2:36:ARG:NH2	21:i2:1310:U:H5	1.41	0.98
21:i2:1300:U:H2'	31:P2:51:ARG:HH12	0.83	0.98
20:e4:45:VAL:CG2	21:i4:535:G:C5'	2.41	0.98
2:U6:19:ARG:CD	2:U6:119:ALA:CB	2.42	0.98
8:f6:95:ARG:HB3	21:i6:1289:U:OP2	1.64	0.98
10:C6:65:LYS:HG2	10:C6:279:ARG:NH2	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:68:ARG:NH2	10:C6:276:THR:CB	2.19	0.98
10:C6:280:VAL:O	22:A6:70:ASN:ND2	1.97	0.98
21:i1:696:G:N2	21:i1:734:C:H5''	1.79	0.97
11:G2:141:ILE:HG13	11:G2:144:LEU:HD22	1.45	0.97
8:f3:95:ARG:CB	21:i3:1289:U:OP2	2.12	0.97
10:C3:280:VAL:O	22:A3:70:ASN:ND2	1.97	0.97
10:C4:280:VAL:O	22:A4:70:ASN:ND2	1.97	0.97
22:A4:89:LYS:HZ3	33:R4:82:ASP:CG	1.71	0.97
8:f5:95:ARG:HE	21:i5:1289:U:H5''	0.82	0.97
10:C5:280:VAL:O	22:A5:70:ASN:ND2	1.97	0.97
37:l2:180:GLU:HG2	37:l2:181:LYS:HB3	1.41	0.97
21:i1:1174:U:C5'	35:j1:21:ARG:HH22	1.77	0.97
21:i1:1300:U:H2'	31:P1:51:ARG:HH12	0.83	0.97
21:i1:1828:C:H5'	37:l1:154:CYS:SG	2.04	0.97
24:D1:64:ARG:HG3	29:K1:95:ARG:CZ	1.93	0.97
13:M2:36:ARG:NH1	21:i2:1310:U:C4	2.32	0.97
13:M4:40:LYS:HZ3	21:i4:1310:U:H5''	1.17	0.97
24:D4:64:ARG:HG3	29:K4:95:ARG:CZ	1.93	0.97
28:I4:207:GLY:C	36:k2:12:SER:OG	2.07	0.97
21:i5:316:G:N2	21:i5:335:G:H22	1.61	0.97
37:l1:166:ILE:HG22	37:l1:170:PHE:CE1	1.99	0.97
37:l4:127:TYR:HB2	37:l4:169:ASP:CB	1.93	0.97
10:C1:273:LEU:CD1	10:C1:280:VAL:CG1	2.40	0.97
11:G1:186:GLN:OE1	21:i1:331:C:N4	1.96	0.97
20:e1:39:ASN:HA	20:e1:43:VAL:HG23	1.47	0.97
13:M2:40:LYS:HZ3	21:i2:1310:U:H5''	1.18	0.97
21:i2:732:U:O2'	21:i2:733:C:O5'	1.81	0.97
30:L2:121:GLN:HB2	30:L2:153:LYS:HD2	1.43	0.97
13:M3:36:ARG:NH1	21:i3:1310:U:C4	2.32	0.97
18:Z3:82:SER:CB	21:i3:1598:G:H2'	1.93	0.97
21:i3:12:U:O2'	21:i3:1356:G:H1'	1.64	0.97
31:P3:34:MET:CB	31:P3:42:ARG:HG3	1.93	0.97
13:M4:36:ARG:NH2	21:i4:1310:U:H5	1.41	0.97
33:R4:58:MET:O	33:R4:61:ILE:CG1	2.11	0.97
11:G5:141:ILE:HG13	11:G5:144:LEU:HD22	1.45	0.97
10:C1:68:ARG:CZ	10:C1:277:HIS:CB	2.41	0.97
20:e1:31:ARG:HH12	21:i1:526:A:H5'	0.83	0.97
22:A2:205:ARG:HG3	22:A2:210:ILE:HG21	1.42	0.97
32:Q3:4:LYS:HZ1	32:Q3:99:TYR:HA	0.97	0.97
8:f5:95:ARG:HB3	21:i5:1289:U:OP2	1.64	0.97
8:f5:95:ARG:CB	21:i5:1289:U:OP2	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:133:ARG:HE	30:L5:154:GLN:HB2	1.26	0.97
33:R5:22:THR:HG22	33:R5:72:LYS:NZ	1.79	0.97
13:M6:36:ARG:NH1	21:i6:1310:U:C4	2.32	0.97
36:k2:7:GLU:HB3	36:k2:177:MET:HG3	1.00	0.97
36:k5:146:GLY:HA2	36:k5:167:ILE:HG12	1.45	0.97
37:l2:127:TYR:HB2	37:l2:169:ASP:CB	1.93	0.97
24:D1:67:ARG:HD2	29:K1:96:ARG:HH21	0.81	0.97
33:R1:65:PRO:HB3	33:R1:74:GLN:NE2	1.78	0.97
10:C2:280:VAL:O	22:A2:70:ASN:ND2	1.97	0.97
8:f3:93:HIS:CB	21:i3:1304:U:C5'	2.39	0.97
11:G3:141:ILE:HG13	11:G3:144:LEU:HD22	1.45	0.97
18:Z3:83:LEU:CD2	34:S3:55:ARG:HH21	1.78	0.97
5:a4:99:PRO:HB2	5:a4:101:PHE:CE2	1.99	0.97
11:G4:141:ILE:HG13	11:G4:144:LEU:HD22	1.45	0.97
13:M5:14:VAL:HG11	13:M5:127:TYR:HE1	0.83	0.97
13:M5:36:ARG:NH2	21:i5:1310:U:H5	1.41	0.97
5:a6:99:PRO:HB2	5:a6:101:PHE:CE2	1.99	0.97
13:M6:36:ARG:CZ	21:i6:1310:U:H5	1.31	0.97
36:k4:22:ILE:CG1	36:k4:50:VAL:HG21	1.94	0.97
36:k5:22:ILE:CG1	36:k5:50:VAL:HG21	1.94	0.97
37:l5:127:TYR:O	37:l5:169:ASP:HA	1.64	0.97
20:e1:40:ARG:O	20:e1:44:ASN:ND2	1.97	0.97
21:i2:1378:A:OP2	22:A2:105:PRO:CG	2.11	0.97
24:D2:64:ARG:CD	29:K2:95:ARG:NH2	2.28	0.97
24:D3:64:ARG:HG3	29:K3:95:ARG:CZ	1.93	0.97
2:U5:19:ARG:CD	2:U5:119:ALA:CB	2.42	0.97
10:C5:68:ARG:NH2	10:C5:276:THR:CB	2.19	0.97
13:M1:14:VAL:HG11	13:M1:127:TYR:HE1	0.83	0.97
13:M2:14:VAL:HG11	13:M2:127:TYR:HE1	0.83	0.97
2:U3:19:ARG:CD	2:U3:119:ALA:CB	2.42	0.97
18:Z3:85:ARG:HG2	21:i3:1597:C:OP2	1.63	0.97
21:i3:1300:U:H2'	31:P3:51:ARG:HH12	0.84	0.97
8:f4:105:TYR:CZ	8:f4:131:PHE:CG	2.46	0.97
21:i4:12:U:H1'	21:i4:1357:A:H1'	1.45	0.97
13:M5:36:ARG:NH1	21:i5:1310:U:C4	2.32	0.97
18:Z5:83:LEU:CD2	34:S5:55:ARG:HH21	1.78	0.97
31:P6:41:GLN:OE1	31:P6:84:ILE:CD1	2.11	0.97
36:k5:10:ASN:HA	36:k5:56:HIS:ND1	1.77	0.97
37:l2:127:TYR:CB	37:l2:169:ASP:HB3	1.95	0.97
37:l6:166:ILE:HG22	37:l6:170:PHE:CE1	1.99	0.97
8:f1:95:ARG:HB3	21:i1:1289:U:OP2	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:65:LYS:HG2	10:C1:279:ARG:NH2	1.78	0.97
13:M1:36:ARG:NH1	21:i1:1310:U:C4	2.32	0.97
18:Z1:82:SER:CB	21:i1:1598:G:H2'	1.93	0.97
2:U2:19:ARG:CD	2:U2:119:ALA:CB	2.42	0.97
10:C2:273:LEU:HB3	10:C2:280:VAL:CG1	1.90	0.97
8:f4:95:ARG:CB	21:i4:1289:U:OP2	2.12	0.97
18:Z4:85:ARG:HG2	21:i4:1597:C:OP2	1.63	0.97
12:J5:30:LYS:HA	20:e5:38:TYR:CD1	1.99	0.97
13:M5:36:ARG:NH1	21:i5:1310:U:H5	1.30	0.97
18:Z6:83:LEU:CD2	34:S6:55:ARG:HH21	1.78	0.97
36:k6:7:GLU:OE1	36:k6:177:MET:CG	2.13	0.97
37:l5:127:TYR:CB	37:l5:169:ASP:HB3	1.95	0.97
14:N2:133:ARG:NH2	30:L2:154:GLN:HA	1.78	0.97
18:Z3:70:PRO:HG2	18:Z3:88:LEU:CD1	1.94	0.97
21:i4:1210:G:O6	21:i4:1689:C:N4	1.97	0.97
24:D4:67:ARG:HD2	29:K4:96:ARG:HH21	0.80	0.97
36:k6:22:ILE:CG1	36:k6:50:VAL:HG21	1.94	0.97
37:l2:166:ILE:HG22	37:l2:170:PHE:CE1	1.99	0.97
28:l1:158:ILE:HD11	15:O6:63:LYS:HZ2	1.10	0.97
8:f2:95:ARG:CB	21:i2:1289:U:OP2	2.12	0.97
31:P4:41:GLN:HB3	31:P4:84:ILE:HD13	0.99	0.97
21:i6:1300:U:C4	31:P6:51:ARG:CD	2.47	0.97
36:k2:95:GLN:HG2	36:k2:164:ILE:CD1	1.83	0.97
36:k5:145:VAL:O	36:k5:167:ILE:CG1	2.12	0.97
37:l1:127:TYR:O	37:l1:169:ASP:HA	1.64	0.97
13:M1:36:ARG:NH1	21:i1:1310:U:H5	1.30	0.96
26:F1:137:GLN:CB	26:F1:204:ARG:C	2.38	0.96
18:Z2:83:LEU:CD2	34:S2:55:ARG:HH21	1.78	0.96
21:i2:1377:U:H2'	22:A2:105:PRO:HG2	1.46	0.96
8:f3:87:THR:HG21	8:f3:90:LYS:HZ1	1.30	0.96
21:i3:1300:U:C4	31:P3:51:ARG:CD	2.47	0.96
21:i3:1377:U:C4	22:A3:102:ARG:NH1	2.33	0.96
8:f4:95:ARG:HB3	21:i4:1289:U:OP2	1.64	0.96
10:C4:68:ARG:NH2	10:C4:276:THR:CB	2.19	0.96
14:N4:133:ARG:HD3	30:L4:152:LYS:CE	1.93	0.96
18:Z4:83:LEU:CD2	34:S4:55:ARG:HH21	1.78	0.96
18:Z6:82:SER:CB	21:i6:1598:G:H2'	1.93	0.96
36:k1:11:VAL:CG1	36:k1:180:TYR:OH	2.13	0.96
36:k1:86:HIS:CD2	36:k1:141:HIS:CB	2.48	0.96
37:l3:127:TYR:HB2	37:l3:169:ASP:CB	1.93	0.96
37:l3:127:TYR:CB	37:l3:169:ASP:HB3	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l4:127:TYR:O	37:l4:169:ASP:HA	1.64	0.96
8:f1:95:ARG:CB	21:i1:1289:U:OP2	2.12	0.96
21:i1:1754:G:O6	21:i1:1779:G:N3	1.98	0.96
24:D1:64:ARG:CD	29:K1:95:ARG:NH2	2.28	0.96
11:G2:187:HIS:CE1	21:i2:317:C:N4	2.31	0.96
21:i2:1378:A:P	22:A2:105:PRO:HG3	2.05	0.96
8:f3:95:ARG:HB3	21:i3:1289:U:OP2	1.64	0.96
13:M3:104:VAL:HG11	21:i3:1313:A:H62	1.28	0.96
20:e3:25:LYS:CG	21:i3:554:A:OP1	2.12	0.96
11:G4:183:ARG:NH1	21:i4:317:C:OP1	1.98	0.96
21:i4:1172:U:C5'	35:j4:14:LYS:HZ2	1.68	0.96
21:i4:1236:G:H5'	31:P4:133:ILE:HD12	1.43	0.96
21:i5:1300:U:C4	31:P5:51:ARG:CD	2.47	0.96
18:Z6:70:PRO:HG2	18:Z6:88:LEU:CD1	1.94	0.96
21:i6:1380:C:H1'	22:A6:110:ASN:HD21	1.29	0.96
36:k4:86:HIS:NE2	36:k4:141:HIS:HB3	1.80	0.96
36:k6:95:GLN:HG3	36:k6:164:ILE:HD11	0.98	0.96
10:C3:270:THR:CG2	22:A3:69:GLU:CB	2.35	0.96
21:i3:528:A:H2'	21:i3:529:A:O4'	1.65	0.96
13:M4:36:ARG:NH1	21:i4:1310:U:C4	2.32	0.96
10:C5:65:LYS:HG2	10:C5:279:ARG:NH2	1.78	0.96
8:f6:80:ARG:CD	21:i6:1509:U:N3	2.25	0.96
24:D6:64:ARG:CD	29:K6:95:ARG:NH2	2.28	0.96
36:k5:82:LEU:HD12	36:k5:169:TYR:O	1.65	0.96
21:i1:1300:U:C4	31:P1:51:ARG:CD	2.48	0.96
8:f2:80:ARG:HD2	21:i2:1509:U:C4	2.00	0.96
18:Z2:82:SER:CB	21:i2:1598:G:H2'	1.93	0.96
30:L2:31:GLU:H	23:B5:21:VAL:HG23	1.30	0.96
26:F3:137:GLN:CB	26:F3:204:ARG:C	2.38	0.96
20:e4:39:ASN:CB	21:i4:552:G:OP1	2.14	0.96
24:D4:64:ARG:CD	29:K4:95:ARG:NH2	2.28	0.96
26:F4:137:GLN:CB	26:F4:204:ARG:C	2.38	0.96
8:f6:93:HIS:CB	21:i6:1304:U:C5'	2.39	0.96
21:i6:691:G:H3'	21:i6:692:G:H5''	1.46	0.96
24:D6:67:ARG:HD2	29:K6:96:ARG:HH21	0.81	0.96
31:P6:41:GLN:CB	31:P6:84:ILE:HD13	1.94	0.96
36:k1:22:ILE:CG1	36:k1:50:VAL:HG21	1.94	0.96
36:k5:83:ARG:HG2	36:k5:175:TRP:CZ3	2.01	0.96
37:l3:166:ILE:HG22	37:l3:170:PHE:CE1	1.99	0.96
37:l4:127:TYR:CB	37:l4:169:ASP:HB3	1.95	0.96
37:l6:127:TYR:O	37:l6:169:ASP:HA	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z2:70:PRO:HG3	18:Z2:88:LEU:HD13	0.96	0.96
18:Z2:70:PRO:HG2	18:Z2:88:LEU:CD1	1.93	0.96
21:i2:1300:U:C4	31:P2:51:ARG:CD	2.48	0.96
21:i2:1615:U:OP2	31:P2:43:ARG:NH2	1.97	0.96
5:a4:101:PHE:HB3	5:a4:102:ARG:CZ	1.96	0.96
18:Z4:82:SER:CB	21:i4:1598:G:H5'	1.93	0.96
14:N5:129:TYR:HD1	14:N5:134:VAL:HG11	1.29	0.96
21:i5:1069:U:P	36:k5:18:LYS:HE2	2.05	0.96
10:C6:270:THR:CG2	22:A6:69:GLU:CB	2.35	0.96
20:e1:45:VAL:HB	21:i1:535:G:O2'	0.79	0.96
10:C2:68:ARG:NH2	10:C2:276:THR:CB	2.19	0.96
17:Y2:109:GLU:OE2	17:Y2:113:ARG:NH1	1.98	0.96
21:i2:732:U:C1'	21:i2:733:C:OP1	2.13	0.96
10:C3:273:LEU:CD1	10:C3:280:VAL:CG1	2.40	0.96
18:Z3:83:LEU:HD23	34:S3:55:ARG:HH21	1.27	0.96
20:e3:48:THR:HA	20:e3:49:PHE:HB2	1.48	0.96
21:i4:693:A:N3	21:i4:738:C:O2'	1.96	0.96
11:G6:141:ILE:HG13	11:G6:144:LEU:HD22	1.45	0.96
11:G6:141:ILE:HA	11:G6:144:LEU:HD23	0.96	0.96
36:k1:86:HIS:CG	36:k1:141:HIS:HD2	1.83	0.96
37:l1:178:ILE:HD12	37:l1:190:ILE:HG23	1.36	0.96
5:a1:101:PHE:HB3	5:a1:102:ARG:CZ	1.96	0.96
28:I1:141:ARG:NH2	26:F6:191:LYS:CE	2.29	0.96
5:a2:101:PHE:HB3	5:a2:102:ARG:CZ	1.96	0.96
10:C2:145:LYS:CD	21:i2:1348:G:H5'	1.95	0.96
11:G2:187:HIS:HE1	21:i2:317:C:H41	1.03	0.96
21:i4:1172:U:H5'	35:j4:14:LYS:CD	1.95	0.96
21:i6:1300:U:C1'	31:P6:51:ARG:NH1	2.28	0.96
36:k1:88:TYR:O	36:k1:91:ILE:HG12	1.63	0.96
36:k2:2:PHE:HB2	36:k2:168:HIS:NE2	1.79	0.96
36:k3:82:LEU:HD11	36:k3:169:TYR:HA	1.48	0.96
28:I1:125:LYS:CD	15:O6:66:ARG:HD2	1.71	0.96
22:A2:214:GLU:HG3	33:R2:84:TYR:CZ	1.99	0.96
24:D2:67:ARG:HD2	29:K2:96:ARG:HH21	0.81	0.96
26:F2:137:GLN:CB	26:F2:204:ARG:C	2.38	0.96
34:S2:108:ARG:CZ	21:i4:1773:C:C3'	2.44	0.96
24:D3:64:ARG:CD	29:K3:95:ARG:NH2	2.28	0.96
24:D3:67:ARG:HD2	29:K3:96:ARG:HH21	0.81	0.96
10:C4:273:LEU:HB2	10:C4:280:VAL:CG1	1.90	0.96
22:A4:214:GLU:HG3	33:R4:84:TYR:CZ	2.00	0.96
8:f5:105:TYR:CZ	8:f5:131:PHE:CG	2.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C5:273:LEU:CD1	10:C5:280:VAL:CG1	2.40	0.96
18:Z5:83:LEU:HD23	34:S5:55:ARG:HH21	1.27	0.96
21:i5:1070:A:OP2	36:k5:18:LYS:HD2	1.66	0.96
36:k2:95:GLN:HG3	36:k2:164:ILE:HD12	1.46	0.96
18:Z1:83:LEU:CD2	34:S1:55:ARG:HH21	1.78	0.96
21:i3:1300:U:C1'	31:P3:51:ARG:NH1	2.28	0.96
10:C6:142:LYS:CD	10:C6:157:LEU:HD13	1.96	0.96
21:i6:688:U:H4'	21:i6:689:U:O5'	1.63	0.96
37:l4:166:ILE:HG22	37:l4:170:PHE:CE1	1.99	0.96
37:l6:127:TYR:CB	37:l6:169:ASP:HB3	1.95	0.96
8:f1:87:THR:HG21	8:f1:90:LYS:HZ1	1.30	0.96
10:C2:145:LYS:HG3	21:i2:1348:G:H5'	1.33	0.96
20:e2:43:VAL:HG11	21:i2:551:U:O2'	1.65	0.96
21:i2:122:G:H4'	25:E2:145:ARG:HG2	1.48	0.96
21:i2:1772:C:O2'	34:S5:108:ARG:HB3	1.65	0.96
13:M3:36:ARG:NH2	21:i3:1310:U:H5	1.41	0.96
22:A3:214:GLU:HG3	33:R3:84:TYR:CZ	2.00	0.96
14:N4:133:ARG:HD2	30:L4:152:LYS:CB	1.96	0.96
24:D5:64:ARG:CD	29:K5:95:ARG:NH2	2.28	0.96
31:P6:15:PHE:CZ	31:P6:112:ILE:HD11	2.01	0.96
10:C1:68:ARG:HD2	10:C1:277:HIS:CB	1.96	0.95
21:i1:61:A:C2	21:i1:334:C:O2	2.19	0.95
31:P1:15:PHE:CZ	31:P1:112:ILE:HD11	2.01	0.95
11:G4:143:LYS:CD	21:i4:1778:C:H5'	1.90	0.95
18:Z4:49:LEU:CD1	34:S4:5:ILE:HG23	1.96	0.95
10:C5:68:ARG:HD2	10:C5:277:HIS:CB	1.96	0.95
18:Z5:85:ARG:HG2	21:i5:1597:C:OP2	1.62	0.95
8:f6:105:TYR:HE1	8:f6:131:PHE:CG	1.64	0.95
14:N6:133:ARG:HH22	30:L6:154:GLN:HB2	1.11	0.95
36:k2:86:HIS:CG	36:k2:141:HIS:CD2	2.54	0.95
12:J1:38:ARG:NH2	21:i1:524:U:O4	1.97	0.95
21:i1:1172:U:H5''	35:j1:14:LYS:HD3	1.47	0.95
31:P2:15:PHE:CZ	31:P2:112:ILE:HD11	2.01	0.95
10:C4:270:THR:CG2	22:A4:69:GLU:CB	2.35	0.95
22:A5:214:GLU:HG3	33:R5:84:TYR:CZ	2.00	0.95
21:i6:122:G:H4'	25:E6:145:ARG:HG2	1.48	0.95
21:i1:556:U:C5	21:i1:588:G:C1'	2.49	0.95
21:i1:1042:A:OP2	36:k1:23:LYS:HE2	1.66	0.95
21:i1:1210:G:N2	21:i1:1690:U:H1'	1.81	0.95
11:G2:193:ALA:HB2	21:i2:331:C:OP1	1.66	0.95
20:e2:48:THR:HA	20:e2:49:PHE:HB2	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J4:173:VAL:HG21	21:i4:561:A:C6	2.01	0.95
11:G5:141:ILE:HA	11:G5:144:LEU:HD23	0.96	0.95
13:M6:40:LYS:HZ1	21:i6:1310:U:H5''	1.20	0.95
26:F6:137:GLN:HB3	26:F6:204:ARG:CA	1.97	0.95
31:P6:37:TYR:OH	31:P6:87:PRO:HD3	1.66	0.95
36:k1:95:GLN:HB3	36:k1:134:ILE:HD12	1.48	0.95
37:l1:127:TYR:CB	37:l1:169:ASP:HB3	1.95	0.95
13:M1:40:LYS:HZ3	21:i1:1310:U:H5''	1.21	0.95
10:C2:273:LEU:CD1	10:C2:280:VAL:CG1	2.40	0.95
13:M2:36:ARG:NH1	21:i2:1310:U:H5	1.29	0.95
21:i2:1300:U:C1'	31:P2:51:ARG:NH1	2.28	0.95
21:i2:1377:U:OP2	22:A2:102:ARG:CG	2.15	0.95
20:e4:45:VAL:HG12	21:i4:534:G:O2'	1.64	0.95
5:a5:101:PHE:HB3	5:a5:102:ARG:CZ	1.95	0.95
20:e6:43:VAL:HG11	21:i6:551:U:C1'	1.95	0.95
13:M1:91:LEU:CD1	21:i1:1284:A:N6	2.30	0.95
21:i1:1849:G:N1	37:l1:149:ALA:O	1.99	0.95
10:C4:279:ARG:HH22	22:A4:118:GLU:HG3	1.31	0.95
21:i4:122:G:H4'	25:E4:145:ARG:HG2	1.48	0.95
26:F5:137:GLN:CB	26:F5:204:ARG:C	2.38	0.95
36:k2:33:PHE:CE1	36:k2:92:LEU:HD11	2.01	0.95
10:C1:279:ARG:HH22	22:A1:118:GLU:HG3	1.31	0.95
13:M1:104:VAL:HG11	21:i1:1313:A:H62	1.27	0.95
20:e1:43:VAL:CG1	21:i1:551:U:P	2.54	0.95
21:i1:528:A:N3	21:i1:558:G:N2	2.15	0.95
11:G2:141:ILE:HA	11:G2:144:LEU:HD23	0.97	0.95
21:i2:628:A:H62	24:D2:145:GLN:CG	1.80	0.95
5:a3:101:PHE:HB3	5:a3:102:ARG:CZ	1.96	0.95
26:F3:137:GLN:HA	26:F3:203:ASN:HB2	1.48	0.95
5:a6:101:PHE:HB3	5:a6:102:ARG:CZ	1.96	0.95
36:k3:13:ASN:OD1	36:k3:14:CYS:N	2.00	0.95
11:G1:94:ARG:NH2	21:i1:1737:G:OP1	1.98	0.95
33:R1:65:PRO:CB	33:R1:74:GLN:NE2	2.29	0.95
18:Z2:83:LEU:HD23	34:S2:55:ARG:HH21	1.27	0.95
11:G3:141:ILE:HA	11:G3:144:LEU:HD23	0.96	0.95
31:P3:12:PHE:CG	21:i6:1763:G:C4'	2.50	0.95
10:C4:68:ARG:HD2	10:C4:277:HIS:CB	1.96	0.95
21:i4:1708:C:H1'	37:l4:153:SER:CB	1.94	0.95
31:P5:15:PHE:CZ	31:P5:112:ILE:CD1	2.50	0.95
36:k1:95:GLN:CG	36:k1:164:ILE:HD11	1.94	0.95
36:k2:140:GLN:HE21	36:k2:141:HIS:CE1	1.85	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k5:13:ASN:OD1	36:k5:14:CYS:N	2.00	0.95
36:k5:95:GLN:CG	36:k5:164:ILE:HD11	1.88	0.95
37:l2:127:TYR:O	37:l2:169:ASP:HA	1.64	0.95
37:l5:166:ILE:HG22	37:l5:170:PHE:CE1	1.99	0.95
21:i1:696:G:H1	21:i1:734:C:H5'	1.26	0.95
28:I1:163:GLU:CG	15:O6:63:LYS:HE3	1.95	0.95
22:A4:205:ARG:CG	22:A4:210:ILE:HG22	1.95	0.95
21:i5:337:C:C2'	21:i5:338:G:H4'	1.95	0.95
24:D5:67:ARG:HD2	29:K5:96:ARG:HH21	0.81	0.95
8:f6:95:ARG:HE	21:i6:1289:U:H5'	0.81	0.95
36:k4:145:VAL:HB	36:k4:167:ILE:CG2	1.95	0.95
36:k6:36:ILE:N	36:k6:91:ILE:CG2	2.29	0.95
37:l4:115:VAL:CG1	37:l4:116:THR:N	2.16	0.95
19:b1:37:CYS:O	19:b1:77:CYS:HB3	1.66	0.95
28:I1:123:ARG:HD2	15:O6:64:ALA:O	1.65	0.95
26:F2:198:ARG:NH2	28:I4:146:GLN:HG3	1.81	0.95
31:P4:121:ILE:CG1	31:P4:123:TYR:CZ	2.38	0.95
20:e6:48:THR:HA	20:e6:49:PHE:HB2	1.48	0.95
36:k2:83:ARG:NH2	36:k2:175:TRP:CD2	2.34	0.95
36:k5:95:GLN:HB3	36:k5:134:ILE:CD1	1.88	0.95
21:i1:1852:C:OP2	35:j1:1:MET:CB	2.14	0.95
18:Z3:49:LEU:CD1	34:S3:5:ILE:HG23	1.96	0.95
18:Z4:70:PRO:HG3	18:Z4:88:LEU:HD13	0.96	0.95
21:i4:1172:U:H5'	35:j4:14:LYS:HD3	1.47	0.95
21:i4:1173:A:OP2	35:j4:14:LYS:CD	2.13	0.95
11:G5:139:SER:HA	11:G5:142:ARG:CG	1.97	0.95
36:k4:18:LYS:O	36:k4:22:ILE:HG13	1.67	0.95
11:G1:141:ILE:HA	11:G1:144:LEU:HD23	0.96	0.94
18:Z1:70:PRO:HG3	18:Z1:88:LEU:HD13	0.96	0.94
21:i1:61:A:N1	21:i1:334:C:O2'	1.99	0.94
21:i1:969:U:O5'	21:i1:971:G:H5'	1.67	0.94
10:C3:68:ARG:HD2	10:C3:277:HIS:CB	1.96	0.94
21:i3:122:G:H4'	25:E3:145:ARG:HG2	1.48	0.94
21:i3:185:G:H22	21:i3:214:U:H3	1.00	0.94
11:G4:141:ILE:O	11:G4:144:LEU:HG	1.67	0.94
26:F4:137:GLN:HA	26:F4:203:ASN:HB2	1.48	0.94
18:Z6:49:LEU:CD1	34:S6:5:ILE:HG23	1.96	0.94
11:G1:139:SER:HA	11:G1:142:ARG:CG	1.97	0.94
21:i1:1300:U:C1'	31:P1:51:ARG:NH1	2.28	0.94
22:A1:205:ARG:CG	22:A1:210:ILE:HG22	1.95	0.94
10:C3:279:ARG:HH22	22:A3:118:GLU:HG3	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:105:TYR:HE1	8:f4:131:PHE:CG	1.65	0.94
21:i4:1173:A:P	35:j4:14:LYS:CD	2.54	0.94
10:C5:273:LEU:HB2	10:C5:280:VAL:CG1	1.90	0.94
13:M5:91:LEU:CD1	21:i5:1284:A:N6	2.30	0.94
11:G6:139:SER:HA	11:G6:142:ARG:CG	1.97	0.94
13:M6:104:VAL:HG11	21:i6:1313:A:H62	1.27	0.94
36:k2:83:ARG:HH22	36:k2:175:TRP:NE1	1.59	0.94
36:k6:2:PHE:HB2	36:k6:168:HIS:CE1	2.02	0.94
26:F1:137:GLN:HA	26:F1:203:ASN:HB2	1.49	0.94
10:C2:68:ARG:HD2	10:C2:277:HIS:CB	1.96	0.94
13:M3:91:LEU:CD1	21:i3:1284:A:N6	2.30	0.94
23:B4:21:VAL:N	30:L5:31:GLU:OE1	2.01	0.94
31:P4:15:PHE:CZ	31:P4:112:ILE:HD11	2.02	0.94
18:Z5:49:LEU:CD1	34:S5:5:ILE:HG23	1.97	0.94
32:Q5:4:LYS:NZ	32:Q5:99:TYR:CA	2.16	0.94
13:M6:91:LEU:CD1	21:i6:1284:A:N6	2.30	0.94
36:k6:95:GLN:HB2	36:k6:134:ILE:HD12	1.49	0.94
15:O1:66:ARG:HH12	28:I3:125:LYS:CG	1.80	0.94
18:Z1:49:LEU:CD1	34:S1:5:ILE:HG23	1.96	0.94
18:Z1:70:PRO:HG2	18:Z1:88:LEU:CD1	1.94	0.94
21:i1:1175:G:OP2	35:j1:21:ARG:NH2	2.00	0.94
28:I1:141:ARG:HH22	26:F6:191:LYS:CE	1.80	0.94
5:a2:100:ARG:O	5:a2:102:ARG:N	2.00	0.94
28:I2:123:ARG:HH22	15:O5:65:ASP:HB3	1.31	0.94
5:a3:100:ARG:O	5:a3:102:ARG:N	2.00	0.94
10:C3:273:LEU:HB2	10:C3:280:VAL:CG1	1.90	0.94
13:M4:91:LEU:CD1	21:i4:1284:A:N6	2.30	0.94
34:S4:6:PRO:CG	34:S4:58:GLU:HG2	1.98	0.94
5:a5:100:ARG:O	5:a5:102:ARG:N	2.00	0.94
11:G5:143:LYS:HD3	21:i5:1778:C:H5'	1.48	0.94
11:G5:147:LEU:HD22	11:G5:148:SER:N	1.83	0.94
31:P5:15:PHE:CE2	31:P5:112:ILE:HG12	2.01	0.94
11:G6:141:ILE:O	11:G6:144:LEU:HG	1.68	0.94
36:k4:140:GLN:HE21	36:k4:141:HIS:CE1	1.85	0.94
21:i1:186:C:O2'	21:i1:187:G:H5'	1.68	0.94
13:M2:91:LEU:CD1	21:i2:1284:A:N6	2.30	0.94
26:F2:137:GLN:HA	26:F2:203:ASN:HB2	1.48	0.94
11:G3:189:ARG:CZ	21:i3:331:C:H41	1.81	0.94
31:P3:96:VAL:HG21	31:P3:116:LEU:HD13	0.94	0.94
31:P5:45:LEU:CD1	31:P5:49:LEU:HD21	1.97	0.94
36:k1:13:ASN:OD1	36:k1:14:CYS:N	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N1:133:ARG:CD	30:L1:152:LYS:HE3	1.97	0.94
15:O1:66:ARG:NH1	28:I3:125:LYS:CG	2.30	0.94
21:i1:1210:G:C2	21:i1:1690:U:O2	2.19	0.94
30:L1:121:GLN:CB	30:L1:153:LYS:CD	2.45	0.94
10:C6:68:ARG:HD2	10:C6:277:HIS:CB	1.96	0.94
12:J6:173:VAL:HG12	21:i6:560:A:C5'	1.96	0.94
21:i6:1849:G:O6	37:l6:149:ALA:CB	2.15	0.94
36:k4:13:ASN:OD1	36:k4:14:CYS:N	2.00	0.94
37:l3:127:TYR:O	37:l3:169:ASP:HA	1.64	0.94
21:i1:122:G:H4'	25:E1:145:ARG:HG2	1.48	0.94
28:I1:205:ARG:HD3	36:k6:56:HIS:CE1	2.01	0.94
34:S1:6:PRO:CG	34:S1:58:GLU:HG2	1.97	0.94
4:X2:55:VAL:CG2	20:e2:2:VAL:HG12	1.96	0.94
10:C2:270:THR:CG2	22:A2:69:GLU:CB	2.35	0.94
21:i3:525:A:N6	21:i3:587:A:C2	2.36	0.94
11:G4:141:ILE:HA	11:G4:144:LEU:HD23	0.96	0.94
20:e4:45:VAL:CB	21:i4:535:G:H4'	1.98	0.94
31:P6:121:ILE:CG1	31:P6:123:TYR:CZ	2.38	0.94
36:k2:86:HIS:CD2	36:k2:141:HIS:CB	2.50	0.94
36:k3:18:LYS:O	36:k3:22:ILE:HG13	1.67	0.94
37:l1:178:ILE:HD12	37:l1:190:ILE:HG22	1.49	0.94
16:W1:118:ARG:NH2	21:i1:735:C:O2'	2.01	0.94
28:I1:196:GLU:OE1	21:i6:969:U:H2'	1.13	0.94
28:I1:205:ARG:NH1	36:k6:56:HIS:HE1	1.64	0.94
34:S1:108:ARG:HH21	21:i3:1772:C:C3'	1.79	0.94
10:C2:279:ARG:HH22	22:A2:118:GLU:HG3	1.31	0.94
11:G2:141:ILE:O	11:G2:144:LEU:HG	1.68	0.94
16:W4:111:MET:HE1	16:W4:119:LYS:HD3	1.47	0.94
10:C5:270:THR:CG2	22:A5:69:GLU:CB	2.35	0.94
18:Z5:70:PRO:HG3	18:Z5:88:LEU:HD13	0.96	0.94
22:A5:205:ARG:CG	22:A5:210:ILE:HG22	1.95	0.94
36:k1:18:LYS:O	36:k1:22:ILE:HG13	1.67	0.94
36:k1:140:GLN:HE21	36:k1:141:HIS:CE1	1.85	0.94
36:k3:144:CYS:CA	36:k3:168:HIS:O	2.15	0.94
36:k5:140:GLN:HE21	36:k5:141:HIS:CE1	1.85	0.94
17:Y1:113:ARG:HH11	8:f2:111:ASN:HA	1.04	0.94
11:G2:147:LEU:HD22	11:G2:148:SER:N	1.83	0.94
34:S2:6:PRO:CG	34:S2:58:GLU:HG2	1.98	0.94
11:G3:139:SER:HA	11:G3:142:ARG:CG	1.97	0.94
18:Z4:70:PRO:HG2	18:Z4:88:LEU:CD1	1.94	0.94
21:i5:1300:U:Cl'	31:P5:51:ARG:NH1	2.28	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F5:137:GLN:HA	26:F5:203:ASN:HB2	1.48	0.94
34:S5:6:PRO:CG	34:S5:58:GLU:HG2	1.97	0.94
34:S6:6:PRO:CG	34:S6:58:GLU:HG2	1.98	0.94
36:k6:18:LYS:O	36:k6:22:ILE:HG13	1.67	0.94
37:l6:128:VAL:HG13	37:l6:166:ILE:C	1.92	0.94
14:N1:133:ARG:HH21	30:L1:154:GLN:HG3	1.33	0.94
18:Z2:49:LEU:CD1	34:S2:5:ILE:HG23	1.96	0.94
21:i2:1751:C:N4	21:i2:1781:A:H2	1.64	0.94
21:i4:337:C:C2'	21:i4:338:G:H4'	1.97	0.94
21:i5:1174:U:C5'	35:j5:21:ARG:HH22	1.76	0.94
11:G6:147:LEU:HD22	11:G6:148:SER:N	1.83	0.94
21:i6:1351:G:H2'	21:i6:1352:G:H8	1.25	0.94
36:k1:11:VAL:HG12	36:k1:180:TYR:OH	1.68	0.94
36:k2:95:GLN:HB3	36:k2:134:ILE:CD1	1.87	0.94
37:l3:128:VAL:HG13	37:l3:166:ILE:C	1.93	0.94
11:G1:147:LEU:HD22	11:G1:148:SER:N	1.83	0.93
21:i1:968:U:O4'	21:i1:972:A:H1'	1.67	0.93
5:a2:105:GLY:O	5:a2:107:ALA:N	2.02	0.93
10:C2:273:LEU:HB2	10:C2:280:VAL:CG1	1.90	0.93
22:A2:205:ARG:CG	22:A2:210:ILE:HG22	1.95	0.93
13:M4:36:ARG:NH1	21:i4:1310:U:H5	1.30	0.93
20:e4:48:THR:HA	20:e4:49:PHE:HB2	1.47	0.93
5:a6:100:ARG:O	5:a6:102:ARG:N	2.00	0.93
18:Z6:70:PRO:HG3	18:Z6:88:LEU:HD13	0.96	0.93
36:k6:56:HIS:CD2	36:k6:57:GLU:HG3	2.01	0.93
28:I1:161:LEU:HD21	21:i6:969:U:C5	2.04	0.93
21:i2:1844:U:O4	35:j2:4:LYS:CE	2.14	0.93
10:C4:142:LYS:NZ	21:i4:1350:U:OP2	1.99	0.93
5:a5:105:GLY:O	5:a5:107:ALA:N	2.02	0.93
21:i5:1757:G:C4	21:i5:1776:G:O6	2.21	0.93
36:k5:18:LYS:O	36:k5:22:ILE:HG13	1.67	0.93
37:l2:128:VAL:HG13	37:l2:166:ILE:C	1.92	0.93
37:l5:128:VAL:HG13	37:l5:166:ILE:C	1.92	0.93
21:i1:337:C:C2'	21:i1:338:G:H4'	1.98	0.93
21:i1:1719:A:OP1	35:j1:24:SER:OG	1.85	0.93
8:f2:80:ARG:NH1	21:i2:1509:U:C4	2.37	0.93
22:A2:89:LYS:HZ3	33:R2:82:ASP:CG	1.71	0.93
10:C4:274:VAL:CG2	10:C4:275:LYS:HD2	1.99	0.93
11:G4:147:LEU:HD22	11:G4:148:SER:N	1.83	0.93
21:i4:1757:G:C4	21:i4:1776:G:O6	2.21	0.93
21:i5:557:U:O2'	21:i5:558:G:C8	2.22	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a6:105:GLY:O	5:a6:107:ALA:N	2.02	0.93
21:i6:1757:G:C4	21:i6:1776:G:O6	2.21	0.93
37:l5:128:VAL:HG22	37:l5:166:ILE:C	1.93	0.93
19:b1:37:CYS:CB	19:b1:63:LEU:HD21	1.98	0.93
21:i2:130:G:P	21:i2:214:U:O4	2.25	0.93
21:i2:1378:A:O5'	22:A2:105:PRO:HB3	1.69	0.93
18:Z3:70:PRO:HG3	18:Z3:88:LEU:HD13	0.96	0.93
22:A6:89:LYS:HZ3	33:R6:82:ASP:CG	1.70	0.93
36:k4:95:GLN:CG	36:k4:164:ILE:HD13	1.79	0.93
37:l3:128:VAL:HG22	37:l3:166:ILE:C	1.93	0.93
10:C2:274:VAL:CG2	10:C2:275:LYS:HD2	1.98	0.93
21:i4:688:U:C1'	21:i4:689:U:OP2	2.17	0.93
26:F4:182:LYS:HB3	21:i5:201:C:OP2	1.66	0.93
26:F5:126:THR:O	26:F5:127:ARG:CG	2.17	0.93
10:C6:279:ARG:HH22	22:A6:118:GLU:HG3	1.31	0.93
36:k2:13:ASN:OD1	36:k2:14:CYS:N	2.00	0.93
26:F2:198:ARG:NH1	28:I4:146:GLN:NE2	2.08	0.93
21:i3:1757:G:C4	21:i3:1776:G:O6	2.21	0.93
5:a4:100:ARG:O	5:a4:102:ARG:N	2.00	0.93
13:M5:40:LYS:HZ3	21:i5:1310:U:H5''	1.18	0.93
36:k5:35:GLY:C	36:k5:91:ILE:HG22	1.92	0.93
36:k6:140:GLN:HE21	36:k6:141:HIS:CE1	1.85	0.93
11:G1:141:ILE:HG13	11:G1:144:LEU:HD22	1.45	0.93
21:i1:1757:G:C4	21:i1:1776:G:O6	2.21	0.93
8:f2:121:CYS:HG	38:f2:500:ZN:ZN	0.62	0.93
21:i2:1816:G:N2	35:j2:20:MET:CE	2.30	0.93
11:G3:147:LEU:HD22	11:G3:148:SER:N	1.83	0.93
31:P5:96:VAL:HG21	31:P5:116:LEU:HD13	0.94	0.93
10:C6:189:GLY:HA3	21:i6:1355:C:H1'	1.50	0.93
13:M6:40:LYS:HZ3	21:i6:1310:U:H5''	1.18	0.93
36:k1:83:ARG:HG3	36:k1:175:TRP:CZ3	2.03	0.93
13:M1:40:LYS:HZ2	21:i1:1310:U:H5''	1.16	0.93
21:i1:1069:U:O2'	36:k1:16:GLN:NE2	2.01	0.93
26:F1:182:LYS:NZ	21:i3:200:G:OP1	2.00	0.93
21:i2:1757:G:C4	21:i2:1776:G:O6	2.21	0.93
21:i2:1842:C:OP1	35:j2:3:ALA:HB3	1.67	0.93
31:P2:96:VAL:HG21	31:P2:116:LEU:HD13	0.94	0.93
26:F4:126:THR:O	26:F4:127:ARG:CG	2.16	0.93
31:P4:96:VAL:HG21	31:P4:116:LEU:HD13	0.94	0.93
11:G5:141:ILE:O	11:G5:144:LEU:HG	1.68	0.93
31:P6:96:VAL:HG21	31:P6:116:LEU:HD13	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k3:95:GLN:HG3	36:k3:164:ILE:HD11	1.25	0.93
36:k6:13:ASN:OD1	36:k6:14:CYS:N	2.00	0.93
37:l2:164:ILE:O	37:l2:165:ILE:HD13	1.69	0.93
8:f1:99:LYS:CG	21:i1:1285:G:N2	1.79	0.93
15:O1:66:ARG:HH22	28:I3:125:LYS:HZ2	1.05	0.93
34:S2:108:ARG:NH1	21:i4:1773:C:C3'	2.30	0.93
11:G3:141:ILE:O	11:G3:144:LEU:HG	1.68	0.93
21:i3:1615:U:OP2	31:P3:43:ARG:NH1	2.01	0.93
21:i4:1300:U:C1'	31:P4:51:ARG:NH1	2.30	0.93
11:G5:143:LYS:HG2	21:i5:1778:C:H5'	1.46	0.93
21:i5:122:G:H4'	25:E5:145:ARG:HG2	1.48	0.93
21:i5:1069:U:OP1	36:k5:18:LYS:HE2	1.69	0.93
5:a1:100:ARG:O	5:a1:102:ARG:N	2.00	0.93
11:G2:189:ARG:CD	21:i2:330:G:C8	2.49	0.93
26:F2:126:THR:O	26:F2:127:ARG:CG	2.17	0.93
14:N3:129:TYR:HB3	14:N3:134:VAL:CB	1.99	0.93
21:i3:1615:U:OP2	31:P3:43:ARG:NH2	2.01	0.93
33:R3:65:PRO:CA	33:R3:73:LEU:HD21	1.97	0.93
5:a4:105:GLY:O	5:a4:107:ALA:N	2.02	0.93
8:f5:105:TYR:HE1	8:f5:131:PHE:CG	1.65	0.93
31:P6:41:GLN:NE2	31:P6:84:ILE:CG2	2.31	0.93
36:k2:18:LYS:O	36:k2:22:ILE:HG13	1.67	0.93
37:l4:128:VAL:HG13	37:l4:166:ILE:C	1.93	0.93
20:e1:43:VAL:CG2	21:i1:551:U:OP1	2.17	0.92
26:F3:126:THR:O	26:F3:127:ARG:CG	2.16	0.92
18:Z6:86:ALA:HB3	34:S6:3:LEU:CD1	1.99	0.92
37:l4:164:ILE:O	37:l4:165:ILE:HD13	1.69	0.92
21:i1:1828:C:H4'	37:l1:154:CYS:SG	2.06	0.92
21:i2:1828:C:OP1	37:l2:125:LYS:NZ	2.02	0.92
32:Q2:4:LYS:NZ	32:Q2:99:TYR:CA	2.16	0.92
5:a3:105:GLY:O	5:a3:107:ALA:N	2.02	0.92
18:Z3:85:ARG:NH1	21:i3:1596:U:C6	2.37	0.92
34:S3:6:PRO:CG	34:S3:58:GLU:HG2	1.98	0.92
11:G4:139:SER:HA	11:G4:142:ARG:CG	1.97	0.92
36:k3:140:GLN:HE21	36:k3:141:HIS:CE1	1.85	0.92
36:k4:68:LEU:HD13	36:k4:174:LEU:CD1	2.00	0.92
37:l2:128:VAL:HG22	37:l2:166:ILE:C	1.93	0.92
21:i1:528:A:H2'	21:i1:529:A:O4'	1.70	0.92
31:P1:96:VAL:HG21	31:P1:116:LEU:HD13	0.94	0.92
21:i3:1689:C:O3'	21:i3:1690:U:P	2.27	0.92
15:O4:63:LYS:HZ3	28:I5:163:GLU:CG	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:187:G:N2	21:i4:213:G:C4	2.36	0.92
21:i4:1069:U:P	36:k4:18:LYS:NZ	2.42	0.92
18:Z5:85:ARG:NH1	21:i5:1596:U:C6	2.37	0.92
10:C6:142:LYS:HD2	10:C6:157:LEU:CD1	2.00	0.92
22:A6:211:GLU:HG3	33:R6:81:ARG:NH2	1.85	0.92
22:A6:217:ALA:HB1	22:A6:220:LYS:HE3	1.51	0.92
37:l1:128:VAL:HG13	37:l1:166:ILE:C	1.93	0.92
15:O1:66:ARG:HH21	28:I3:125:LYS:NZ	1.59	0.92
21:i1:690:G:H1	21:i1:738:C:H42	1.15	0.92
11:G2:139:SER:HA	11:G2:142:ARG:CG	1.97	0.92
21:i4:526:A:N1	21:i4:560:A:H2	1.67	0.92
10:C5:274:VAL:CG2	10:C5:275:LYS:HD2	1.99	0.92
21:i5:1175:G:OP2	35:j5:21:ARG:NH2	2.03	0.92
10:C6:274:VAL:CG2	10:C6:275:LYS:HD2	1.98	0.92
21:i6:1615:U:OP2	31:P6:43:ARG:CZ	2.16	0.92
21:i2:318:A:C2	21:i2:333:G:N2	2.38	0.92
22:A3:205:ARG:CG	22:A3:210:ILE:HG22	1.95	0.92
21:i4:1300:U:C4	31:P4:51:ARG:CD	2.52	0.92
22:A4:205:ARG:CG	22:A4:210:ILE:HG21	1.98	0.92
21:i5:1172:U:C4'	35:j5:10:MET:HE3	1.99	0.92
21:i5:1300:U:C5	31:P5:51:ARG:HD2	2.05	0.92
21:i6:1757:G:C2	21:i6:1776:G:O6	2.23	0.92
36:k2:39:TRP:NE1	36:k2:90:PHE:CZ	2.37	0.92
36:k3:144:CYS:CB	36:k3:168:HIS:O	2.18	0.92
36:k4:39:TRP:NE1	36:k4:90:PHE:CZ	2.37	0.92
36:k6:85:LEU:HD21	36:k6:133:ALA:HB2	1.52	0.92
36:k6:95:GLN:CB	36:k6:134:ILE:CD1	2.44	0.92
37:l1:164:ILE:O	37:l1:165:ILE:HD13	1.69	0.92
37:l5:164:ILE:O	37:l5:165:ILE:HD13	1.69	0.92
8:f1:130:VAL:HG12	21:i1:1310:U:OP2	1.70	0.92
10:C1:68:ARG:CZ	10:C1:277:HIS:HB3	2.00	0.92
11:G1:141:ILE:O	11:G1:144:LEU:HG	1.68	0.92
21:i1:1757:G:C2	21:i1:1776:G:O6	2.23	0.92
21:i2:12:U:O2'	21:i2:1356:G:H1'	1.68	0.92
21:i2:1844:U:C4	35:j2:4:LYS:HD2	2.04	0.92
23:B2:28:LYS:HD3	23:B2:48:LEU:HD21	1.52	0.92
14:N3:132:LYS:HA	30:L3:152:LYS:NZ	1.85	0.92
21:i3:1757:G:C2	21:i3:1776:G:O6	2.23	0.92
18:Z4:85:ARG:NH1	21:i4:1596:U:C6	2.37	0.92
21:i4:1757:G:C2	21:i4:1776:G:O6	2.23	0.92
34:S5:4:VAL:HG21	34:S5:58:GLU:OE1	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1300:U:C6	31:P6:51:ARG:NH1	2.38	0.92
31:P6:41:GLN:OE1	31:P6:84:ILE:HG12	1.69	0.92
36:k6:2:PHE:CB	36:k6:168:HIS:CE1	2.52	0.92
36:k6:83:ARG:NH2	36:k6:175:TRP:CE2	2.38	0.92
37:l3:180:GLU:HG2	37:l3:181:LYS:CB	1.99	0.92
21:i1:556:U:C4	21:i1:588:G:C4	2.58	0.92
34:S2:4:VAL:HG21	34:S2:58:GLU:OE1	1.68	0.92
10:C3:274:VAL:CG2	10:C3:275:LYS:HD2	1.99	0.92
21:i3:1172:U:H4'	35:j3:10:MET:HE3	1.50	0.92
21:i4:1300:U:C6	31:P4:51:ARG:NH1	2.38	0.92
18:Z5:86:ALA:HB3	34:S5:3:LEU:CD1	2.00	0.92
21:i5:1300:U:C6	31:P5:51:ARG:NH1	2.38	0.92
29:K5:93:THR:OG1	29:K5:95:ARG:NH1	2.03	0.92
36:k1:10:ASN:CB	36:k1:56:HIS:CE1	2.53	0.92
37:l6:178:ILE:HD12	37:l6:190:ILE:HG22	1.49	0.92
14:N1:133:ARG:CD	30:L1:152:LYS:HB3	1.99	0.92
18:Z2:85:ARG:NH1	21:i2:1596:U:C6	2.37	0.92
21:i2:1300:U:C5	31:P2:51:ARG:HD2	2.04	0.92
21:i2:1754:G:O6	21:i2:1779:G:N3	2.03	0.92
15:O4:63:LYS:NZ	28:I5:163:GLU:CG	2.32	0.92
21:i5:1174:U:OP1	35:j5:21:ARG:HD2	1.70	0.92
26:F1:126:THR:O	26:F1:127:ARG:CG	2.17	0.92
10:C2:68:ARG:CZ	10:C2:277:HIS:HB3	2.00	0.92
8:f3:80:ARG:CZ	21:i3:1509:U:O4	2.17	0.92
22:A3:89:LYS:HZ3	33:R3:82:ASP:CG	1.64	0.92
4:X4:61:GLN:OE1	21:i4:1824:A:C8	2.23	0.92
10:C4:68:ARG:CZ	10:C4:277:HIS:HB3	2.00	0.92
21:i5:1828:C:C5'	37:l5:154:CYS:SG	2.58	0.92
36:k1:33:PHE:CE1	36:k1:92:LEU:HD11	2.05	0.92
37:l4:128:VAL:HG22	37:l4:166:ILE:C	1.93	0.92
37:l4:180:GLU:HG2	37:l4:181:LYS:CB	1.99	0.92
37:l6:164:ILE:O	37:l6:165:ILE:HD13	1.69	0.92
15:O1:66:ARG:NE	28:I3:125:LYS:HD3	1.83	0.92
28:I1:123:ARG:NH1	21:i6:963:A:OP1	2.01	0.92
29:K1:93:THR:OG1	29:K1:95:ARG:NH1	2.03	0.92
33:R1:61:ILE:O	33:R1:73:LEU:CD2	2.18	0.92
22:A2:211:GLU:HG3	33:R2:81:ARG:NH2	1.84	0.92
31:P3:96:VAL:CG2	31:P3:116:LEU:HD11	2.00	0.92
8:f4:87:THR:HG21	8:f4:90:LYS:HZ1	1.30	0.92
21:i6:1608:U:H5''	34:S6:134:GLN:HE22	1.35	0.92
26:F6:126:THR:O	26:F6:127:ARG:CG	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:95:GLN:CG	36:k2:164:ILE:HD13	1.85	0.92
36:k3:94:HIS:CB	36:k3:135:MET:HG2	1.98	0.92
21:i1:529:A:C2	21:i1:557:U:C2	2.57	0.91
21:i1:628:A:H62	24:D1:145:GLN:HG3	1.35	0.91
21:i1:969:U:O2	21:i1:971:G:N2	2.01	0.91
21:i1:1772:C:O2	34:S6:112:GLU:CG	2.17	0.91
34:S1:4:VAL:HG21	34:S1:58:GLU:OE1	1.68	0.91
8:f2:87:THR:HG21	8:f2:90:LYS:HZ1	1.33	0.91
21:i2:1772:C:H5'	34:S5:112:GLU:OE1	1.69	0.91
31:P2:96:VAL:CG2	31:P2:116:LEU:HD11	2.00	0.91
10:C3:68:ARG:CZ	10:C3:277:HIS:HB3	2.00	0.91
18:Z4:86:ALA:HB3	34:S4:3:LEU:CD1	2.00	0.91
22:A4:217:ALA:HB1	22:A4:220:LYS:HE3	1.51	0.91
10:C5:279:ARG:HH22	22:A5:118:GLU:HG3	1.31	0.91
21:i5:1608:U:H5''	34:S5:134:GLN:HE22	1.35	0.91
36:k6:39:TRP:NE1	36:k6:90:PHE:CZ	2.38	0.91
37:l3:164:ILE:O	37:l3:165:ILE:HD13	1.69	0.91
10:C1:274:VAL:CG2	10:C1:275:LYS:HD2	1.99	0.91
21:i1:1300:U:C6	31:P1:51:ARG:NH1	2.38	0.91
21:i2:1377:U:H5	22:A2:102:ARG:CZ	1.83	0.91
28:I2:125:LYS:HD3	15:O5:66:ARG:NH1	1.84	0.91
29:K2:93:THR:OG1	29:K2:95:ARG:NH1	2.03	0.91
18:Z3:86:ALA:HB3	34:S3:3:LEU:CD1	1.99	0.91
21:i4:693:A:C2	21:i4:738:C:H1'	2.04	0.91
21:i5:1240:A:H2	31:P5:100:LYS:HA	1.33	0.91
8:f6:130:VAL:HG12	21:i6:1310:U:OP2	1.70	0.91
36:k6:112:MET:HG2	36:k6:114:PRO:CD	2.00	0.91
37:l6:180:GLU:HG2	37:l6:181:LYS:CB	1.99	0.91
21:i1:556:U:O4	21:i1:588:G:C4	2.24	0.91
21:i1:956:G:OP2	28:I3:160:SER:HB2	1.71	0.91
21:i2:1300:U:C6	31:P2:51:ARG:NH1	2.38	0.91
31:P2:121:ILE:CD1	31:P2:123:TYR:HE2	1.54	0.91
10:C3:273:LEU:HD13	10:C3:280:VAL:HG11	0.91	0.91
20:e4:25:LYS:HE2	21:i4:554:A:P	2.09	0.91
31:P4:98:ASN:O	31:P4:122:THR:CB	2.18	0.91
21:i5:1757:G:C2	21:i5:1776:G:O6	2.23	0.91
30:L5:124:ASP:CB	30:L5:147:LYS:HG2	2.01	0.91
31:P6:98:ASN:O	31:P6:122:THR:CB	2.18	0.91
36:k1:17:LEU:HB2	36:k1:50:VAL:HG23	1.53	0.91
36:k3:17:LEU:HB2	36:k3:50:VAL:HG23	1.52	0.91
5:a1:105:GLY:O	5:a1:107:ALA:N	2.02	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:270:THR:CG2	22:A1:69:GLU:CB	2.35	0.91
22:A1:217:ALA:HB1	22:A1:220:LYS:HE3	1.51	0.91
10:C2:273:LEU:HD13	10:C2:280:VAL:HG11	0.91	0.91
32:Q3:4:LYS:NZ	32:Q3:99:TYR:CA	2.16	0.91
23:B5:28:LYS:HD3	23:B5:48:LEU:HD21	1.52	0.91
5:a6:94:ASP:OD2	5:a6:96:THR:OG1	1.89	0.91
20:e6:45:VAL:CG1	21:i6:534:G:H4'	2.01	0.91
36:k2:7:GLU:HB3	36:k2:177:MET:SD	2.09	0.91
36:k3:85:LEU:HD21	36:k3:133:ALA:HB2	1.52	0.91
37:l1:180:GLU:HG2	37:l1:181:LYS:CB	1.99	0.91
37:l6:128:VAL:HG22	37:l6:166:ILE:C	1.93	0.91
15:O1:66:ARG:HH22	28:I3:125:LYS:CD	1.84	0.91
18:Z1:85:ARG:NH1	21:i1:1596:U:C6	2.37	0.91
21:i1:1828:C:C5'	37:l1:154:CYS:SG	2.58	0.91
31:P1:98:ASN:O	31:P1:122:THR:CB	2.18	0.91
8:f2:130:VAL:HG12	21:i2:1310:U:OP2	1.70	0.91
10:C3:68:ARG:NH2	10:C3:276:THR:CB	2.19	0.91
10:C3:68:ARG:CZ	10:C3:277:HIS:HB2	2.01	0.91
21:i5:1853:C:H5	35:j5:5:TRP:CZ2	1.88	0.91
18:Z6:85:ARG:NH1	21:i6:1596:U:C6	2.37	0.91
21:i6:1300:U:C5	31:P6:51:ARG:HD2	2.04	0.91
29:K6:93:THR:OG1	29:K6:95:ARG:NH1	2.03	0.91
21:i1:1613:G:OP2	31:P1:39:ALA:HB2	0.73	0.91
33:R1:65:PRO:HB2	33:R1:74:GLN:HE22	1.35	0.91
13:M3:36:ARG:NH1	21:i3:1310:U:H5	1.30	0.91
29:K3:93:THR:OG1	29:K3:95:ARG:NH1	2.03	0.91
8:f4:130:VAL:HG12	21:i4:1310:U:OP2	1.70	0.91
16:W4:111:MET:SD	16:W4:119:LYS:HD2	2.09	0.91
21:i4:1608:U:H5''	34:S4:134:GLN:HE22	1.35	0.91
8:f5:80:ARG:NH2	21:i5:1503:C:O2	2.03	0.91
37:l1:128:VAL:HG22	37:l1:166:ILE:C	1.93	0.91
37:l2:180:GLU:HG2	37:l2:181:LYS:CB	2.00	0.91
28:I1:123:ARG:CD	15:O6:64:ALA:O	2.18	0.91
13:M3:40:LYS:HZ3	21:i3:1310:U:H5''	1.18	0.91
18:Z3:78:LYS:HZ3	21:i6:209:A:H4'	1.36	0.91
21:i3:628:A:N7	24:D3:145:GLN:NE2	2.17	0.91
22:A3:211:GLU:HG3	33:R3:81:ARG:NH2	1.85	0.91
12:J4:173:VAL:CG2	21:i4:561:A:H62	1.82	0.91
26:F4:182:LYS:HD2	21:i5:200:G:OP1	1.11	0.91
23:B6:28:LYS:HD3	23:B6:48:LEU:HD21	1.52	0.91
36:k1:22:ILE:CD1	36:k1:50:VAL:CG2	2.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:94:HIS:HA	36:k1:133:ALA:C	1.96	0.91
36:k5:22:ILE:CD1	36:k5:50:VAL:CG2	2.49	0.91
10:C1:145:LYS:HG3	21:i1:1348:G:H4'	1.52	0.91
14:N1:131:THR:O	30:L1:152:LYS:HG2	1.70	0.91
21:i1:1300:U:C5	31:P1:51:ARG:HD2	2.05	0.91
22:A1:89:LYS:HZ3	33:R1:82:ASP:CG	1.74	0.91
21:i3:733:C:H41	27:H3:149:ASP:CB	1.82	0.91
21:i3:1300:U:C5	31:P3:51:ARG:HD2	2.05	0.91
23:B3:28:LYS:HD3	23:B3:48:LEU:HD21	1.52	0.91
23:B4:28:LYS:HD3	23:B4:48:LEU:HD21	1.52	0.91
27:H4:163:GLN:CD	27:H4:189:PHE:HE2	1.78	0.91
21:i6:368:U:HO2'	36:k3:104:PHE:HD1	1.02	0.91
36:k2:22:ILE:CD1	36:k2:50:VAL:CG2	2.49	0.91
36:k4:112:MET:HG2	36:k4:114:PRO:CD	2.01	0.91
21:i1:1772:C:O2	34:S6:112:GLU:HG2	1.71	0.91
28:I1:141:ARG:HH22	26:F6:191:LYS:HE2	1.08	0.91
26:F2:198:ARG:HH22	28:I4:146:GLN:CG	1.84	0.91
31:P2:98:ASN:O	31:P2:122:THR:CB	2.18	0.91
8:f3:105:TYR:HE1	8:f3:131:PHE:CG	1.65	0.91
10:C4:273:LEU:HD13	10:C4:280:VAL:HG11	0.92	0.91
12:J4:173:VAL:CG2	21:i4:561:A:N6	2.32	0.91
29:K4:93:THR:OG1	29:K4:95:ARG:NH1	2.03	0.91
34:S4:4:VAL:HG21	34:S4:58:GLU:OE1	1.69	0.91
21:i5:1751:C:N4	21:i5:1781:A:H2	1.69	0.91
22:A5:217:ALA:HB1	22:A5:220:LYS:HE3	1.51	0.91
13:M2:104:VAL:HG11	21:i2:1313:A:N6	1.86	0.91
10:C6:68:ARG:CZ	10:C6:277:HIS:HB2	2.01	0.91
13:M6:40:LYS:HZ2	21:i6:1310:U:H5''	1.11	0.91
10:C1:145:LYS:HG3	21:i1:1348:G:H5'	1.51	0.90
14:N2:131:THR:O	30:L2:152:LYS:CD	2.19	0.90
18:Z2:86:ALA:HB3	34:S2:3:LEU:CD1	1.99	0.90
21:i2:963:A:OP1	28:I4:123:ARG:NH1	2.05	0.90
21:i3:1300:U:C6	31:P3:51:ARG:NH1	2.38	0.90
31:P3:15:PHE:HE2	31:P3:17:TYR:HB2	1.31	0.90
20:e4:45:VAL:HB	21:i4:535:G:C4'	2.01	0.90
21:i4:1173:A:P	35:j4:14:LYS:CG	2.59	0.90
32:Q4:4:LYS:NZ	32:Q4:99:TYR:CA	2.16	0.90
14:N5:133:ARG:HG2	30:L5:154:GLN:CG	2.01	0.90
14:N6:133:ARG:HH11	30:L6:152:LYS:CA	1.83	0.90
36:k5:17:LEU:HB2	36:k5:50:VAL:HG23	1.52	0.90
21:i1:315:C:C4	21:i1:336:A:H2	1.89	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1608:U:H5''	34:S1:134:GLN:HE22	1.35	0.90
15:O3:63:LYS:HZ2	28:I6:163:GLU:HB3	0.99	0.90
22:A3:217:ALA:HB1	22:A3:220:LYS:HE3	1.51	0.90
5:a4:94:ASP:OD2	5:a4:96:THR:OG1	1.89	0.90
21:i4:316:G:C4	21:i4:335:G:N2	2.38	0.90
21:i4:1707:U:O2	37:l4:153:SER:OG	1.89	0.90
23:B4:21:VAL:CB	30:L5:31:GLU:HG3	2.01	0.90
10:C5:68:ARG:CZ	10:C5:277:HIS:HB3	2.00	0.90
14:N6:133:ARG:CZ	30:L6:152:LYS:HB3	2.00	0.90
36:k3:95:GLN:N	36:k3:133:ALA:O	2.05	0.90
36:k3:112:MET:HG2	36:k3:114:PRO:CD	2.01	0.90
37:l6:119:LYS:O	37:l6:120:ILE:HD13	1.72	0.90
10:C1:273:LEU:HD13	10:C1:280:VAL:HG11	0.91	0.90
14:N3:129:TYR:HD1	14:N3:134:VAL:CG1	1.84	0.90
31:P3:41:GLN:HB3	31:P3:84:ILE:HD13	1.54	0.90
21:i4:628:A:N6	24:D4:145:GLN:HG3	1.85	0.90
31:P5:98:ASN:O	31:P5:122:THR:CB	2.18	0.90
31:P6:96:VAL:CG2	31:P6:116:LEU:HD11	2.00	0.90
36:k2:112:MET:HG2	36:k2:114:PRO:CD	2.00	0.90
37:l2:178:ILE:HD12	37:l2:190:ILE:HG22	1.49	0.90
2:U1:18:HIS:HB2	2:U1:117:ALA:HB1	1.52	0.90
21:i1:867:G:C4'	30:L1:149:ALA:HB1	2.01	0.90
21:i1:1829:G:OP1	37:l1:126:LYS:HE3	1.70	0.90
21:i1:1842:C:C6	35:j1:4:LYS:NZ	2.39	0.90
5:a2:94:ASP:OD2	5:a2:96:THR:OG1	1.88	0.90
21:i3:1059:G:O2'	37:l3:157:SER:HB3	1.71	0.90
34:S3:4:VAL:HG21	34:S3:58:GLU:OE1	1.69	0.90
8:f4:80:ARG:HD2	21:i4:1509:U:C2	2.04	0.90
21:i6:1173:A:OP1	35:j6:17:ARG:NE	2.03	0.90
34:S6:4:VAL:HG21	34:S6:58:GLU:OE1	1.68	0.90
36:k2:144:CYS:HA	36:k2:168:HIS:O	1.69	0.90
36:k5:22:ILE:HD11	36:k5:50:VAL:CG2	2.01	0.90
37:l5:178:ILE:HD12	37:l5:190:ILE:HG22	1.49	0.90
13:M1:104:VAL:HG11	21:i1:1313:A:N6	1.86	0.90
15:O1:66:ARG:NH1	28:I3:125:LYS:HG2	1.84	0.90
21:i1:1689:C:H2'	21:i1:1690:U:H5'	1.52	0.90
8:f2:105:TYR:HE1	8:f2:131:PHE:CG	1.65	0.90
21:i2:61:A:H2	21:i2:334:C:H2'	1.21	0.90
21:i2:1608:U:H5''	34:S2:134:GLN:HE22	1.35	0.90
21:i2:1757:G:C2	21:i2:1776:G:O6	2.23	0.90
33:R2:65:PRO:CB	33:R2:73:LEU:HD22	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a3:94:ASP:OD2	5:a3:96:THR:OG1	1.89	0.90
31:P3:98:ASN:O	31:P3:122:THR:CB	2.18	0.90
2:U4:19:ARG:HD3	2:U4:119:ALA:HB3	1.53	0.90
10:C4:68:ARG:CZ	10:C4:277:HIS:HB2	2.01	0.90
36:k1:112:MET:HG2	36:k1:114:PRO:CD	2.00	0.90
36:k2:17:LEU:HB2	36:k2:50:VAL:HG23	1.52	0.90
36:k4:17:LEU:HB2	36:k4:50:VAL:HG23	1.52	0.90
4:X2:55:VAL:CG2	20:e2:2:VAL:CG1	2.49	0.90
2:U5:18:HIS:HB2	2:U5:117:ALA:HB1	1.52	0.90
13:M5:104:VAL:HG11	21:i5:1313:A:N6	1.86	0.90
22:A5:205:ARG:CG	22:A5:210:ILE:HG21	1.98	0.90
2:U6:18:HIS:HB2	2:U6:117:ALA:HB1	1.52	0.90
10:C6:68:ARG:CZ	10:C6:277:HIS:HB3	2.00	0.90
13:M6:104:VAL:HG11	21:i6:1313:A:N6	1.86	0.90
37:l2:119:LYS:O	37:l2:120:ILE:HD13	1.72	0.90
18:Z1:82:SER:N	21:i1:1598:G:C2'	2.35	0.90
20:e1:43:VAL:CG1	21:i1:551:U:OP1	2.19	0.90
14:N2:133:ARG:CD	30:L2:152:LYS:HG3	2.01	0.90
10:C6:273:LEU:HD13	10:C6:280:VAL:HG11	0.92	0.90
36:k5:112:MET:HG2	36:k5:114:PRO:CD	2.00	0.90
37:l1:119:LYS:O	37:l1:120:ILE:HD13	1.72	0.90
21:i1:529:A:H2	21:i1:557:U:H1'	1.36	0.90
15:O2:65:ASP:CG	28:I4:123:ARG:HH22	1.80	0.90
4:X3:61:GLN:HB2	21:i3:1824:A:N7	1.86	0.90
10:C5:273:LEU:HD13	10:C5:280:VAL:HG11	0.92	0.90
11:G5:143:LYS:CG	21:i5:1778:C:H5'	2.01	0.90
36:k6:17:LEU:HB2	36:k6:50:VAL:HG23	1.52	0.90
37:l3:119:LYS:O	37:l3:120:ILE:HD13	1.72	0.90
37:l4:179:GLN:HG3	37:l4:180:GLU:N	1.87	0.90
20:e2:35:ARG:HH12	21:i2:526:A:C5'	1.85	0.90
22:A2:217:ALA:HB1	22:A2:220:LYS:HE3	1.51	0.90
8:f3:130:VAL:HG12	21:i3:1310:U:OP2	1.70	0.90
13:M3:104:VAL:HG11	21:i3:1313:A:N6	1.87	0.90
19:b4:37:CYS:HB3	19:b4:38:PRO:CD	2.00	0.90
21:i4:528:A:C2	21:i4:558:G:N1	2.40	0.90
21:i4:1828:C:C4'	37:l4:155:GLY:H	1.83	0.90
14:N6:133:ARG:HH22	30:L6:154:GLN:CB	1.85	0.90
21:i6:314:U:O2	21:i6:337:C:C2	2.25	0.90
36:k3:22:ILE:CD1	36:k3:50:VAL:CG2	2.49	0.90
36:k4:22:ILE:HD11	36:k4:50:VAL:CG2	2.01	0.90
37:l5:180:GLU:HG2	37:l5:181:LYS:CB	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:68:ARG:CZ	10:C1:277:HIS:HB2	2.01	0.90
13:M2:40:LYS:HZ1	21:i2:1310:U:H5''	1.19	0.90
33:R2:21:TYR:CD2	33:R2:71:ILE:HD12	2.07	0.90
2:U3:18:HIS:HB2	2:U3:117:ALA:HB1	1.52	0.90
13:M4:40:LYS:HZ2	21:i4:1310:U:H5''	1.11	0.90
20:e4:45:VAL:CG2	21:i4:535:G:H5''	2.00	0.90
8:f5:92:LYS:HD3	21:i5:1272:C:P	2.13	0.90
31:P5:96:VAL:CG2	31:P5:116:LEU:HD11	2.00	0.90
21:i6:1143:A:O3'	21:i6:1355:C:C4	2.25	0.90
36:k4:39:TRP:NE1	36:k4:90:PHE:HZ	1.70	0.90
36:k6:22:ILE:CD1	36:k6:50:VAL:CG2	2.49	0.90
37:l4:119:LYS:O	37:l4:120:ILE:HD13	1.72	0.90
18:Z1:86:ALA:HB3	34:S1:3:LEU:CD1	2.00	0.89
28:I1:200:ARG:HG2	21:i6:970:G:N2	1.86	0.89
8:f2:92:LYS:HD3	21:i2:1272:C:P	2.12	0.89
10:C2:64:THR:C	10:C2:277:HIS:CE1	2.50	0.89
21:i3:187:G:C2	21:i3:213:G:C2	2.61	0.89
21:i5:691:G:H3'	21:i5:692:G:H5''	1.54	0.89
8:f6:80:ARG:NH2	21:i6:1503:C:H1'	1.86	0.89
22:A6:205:ARG:CG	22:A6:210:ILE:HG22	1.95	0.89
18:Z4:82:SER:N	21:i4:1598:G:C2'	2.35	0.89
21:i4:316:G:N1	21:i4:335:G:C6	2.38	0.89
5:a5:94:ASP:OD2	5:a5:96:THR:OG1	1.89	0.89
36:k6:22:ILE:HD11	36:k6:50:VAL:CG2	2.01	0.89
19:b1:37:CYS:HB3	19:b1:38:PRO:CD	2.02	0.89
21:i1:1613:G:P	31:P1:39:ALA:HB2	2.12	0.89
10:C2:68:ARG:CZ	10:C2:277:HIS:HB2	2.01	0.89
20:e2:25:LYS:HE2	21:i2:554:A:OP1	1.70	0.89
9:g3:147:HIS:HE1	9:g3:173:LEU:HB2	1.38	0.89
11:G4:141:ILE:CB	11:G4:144:LEU:CD2	2.44	0.89
21:i4:1174:U:H5''	35:j4:21:ARG:HH22	1.37	0.89
21:i4:1240:A:H2	31:P4:100:LYS:HA	1.34	0.89
22:A5:211:GLU:HG3	33:R5:81:ARG:NH2	1.85	0.89
15:O2:65:ASP:CG	28:I4:123:ARG:NH2	2.29	0.89
26:F3:127:ARG:HE	26:F3:128:ILE:HG23	1.38	0.89
13:M4:104:VAL:HG11	21:i4:1313:A:N6	1.86	0.89
21:i4:315:C:C4	21:i4:336:A:H2	1.90	0.89
26:F4:184:SER:HA	21:i5:202:G:OP2	1.70	0.89
11:G5:92:ARG:NH2	21:i5:1738:C:OP1	2.05	0.89
2:U6:19:ARG:HD3	2:U6:119:ALA:HB3	1.54	0.89
36:k4:22:ILE:CD1	36:k4:50:VAL:CG2	2.49	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:109:ALA:O	36:k6:166:ASN:ND2	2.04	0.89
5:a1:94:ASP:OD2	5:a1:96:THR:OG1	1.89	0.89
8:f1:105:TYR:HE1	8:f1:131:PHE:CG	1.65	0.89
20:e1:45:VAL:HG11	21:i1:535:G:C4'	1.82	0.89
28:I1:160:SER:HB3	21:i6:955:A:O2'	1.72	0.89
21:i2:1772:C:O4'	34:S5:112:GLU:HG3	1.71	0.89
21:i5:1378:A:OP2	22:A5:105:PRO:HG3	1.72	0.89
8:f6:92:LYS:HD3	21:i6:1272:C:P	2.12	0.89
21:i6:13:C:O2'	21:i6:1355:C:N3	2.04	0.89
21:i6:1849:G:O6	37:l6:153:SER:HA	1.72	0.89
36:k2:86:HIS:CG	36:k2:141:HIS:HD2	1.88	0.89
36:k2:109:ALA:N	36:k2:166:ASN:HD21	1.70	0.89
36:k6:92:LEU:HD21	36:k6:131:ILE:O	1.73	0.89
21:i2:337:C:O2'	21:i2:339:A:OP1	1.90	0.89
10:C5:64:THR:C	10:C5:277:HIS:CE1	2.50	0.89
21:i6:1849:G:N1	37:l6:149:ALA:O	2.05	0.89
36:k1:10:ASN:HA	36:k1:56:HIS:HE1	1.10	0.89
36:k1:22:ILE:HD11	36:k1:50:VAL:CG2	2.02	0.89
36:k2:83:ARG:NH1	36:k2:175:TRP:CH2	2.39	0.89
36:k3:86:HIS:CG	36:k3:141:HIS:HB3	2.07	0.89
2:U2:18:HIS:HB2	2:U2:117:ALA:HB1	1.52	0.89
21:i2:193:C:H5''	18:Z5:75:GLU:OE2	1.71	0.89
21:i2:1236:G:C5'	31:P2:133:ILE:HD12	2.02	0.89
14:N3:150:VAL:HG13	14:N3:151:ALA:H	1.37	0.89
21:i3:1183:A:OP1	35:j3:15:ARG:CZ	2.19	0.89
2:U4:18:HIS:HB2	2:U4:117:ALA:HB1	1.52	0.89
21:i4:1172:U:C5'	35:j4:14:LYS:HD3	2.03	0.89
21:i4:1377:U:OP2	22:A4:102:ARG:CD	2.21	0.89
33:R4:58:MET:O	33:R4:61:ILE:HG12	1.69	0.89
10:C5:68:ARG:CZ	10:C5:277:HIS:HB2	2.01	0.89
18:Z5:82:SER:N	21:i5:1598:G:C2'	2.35	0.89
21:i1:1377:U:C4	22:A1:102:ARG:NH1	2.41	0.89
9:g2:147:HIS:HE1	9:g2:173:LEU:HB2	1.38	0.89
14:N2:150:VAL:HG13	14:N2:151:ALA:H	1.37	0.89
13:M3:40:LYS:HZ2	21:i3:1310:U:H5''	1.11	0.89
21:i4:213:G:N1	21:i4:214:U:C4	2.41	0.89
21:i4:1693:G:N2	21:i4:1834:A:C8	2.41	0.89
33:R4:58:MET:CG	33:R4:61:ILE:HD11	2.03	0.89
2:U5:19:ARG:HD3	2:U5:119:ALA:HB3	1.54	0.89
31:P5:121:ILE:CG1	31:P5:123:TYR:CD2	2.52	0.89
9:g6:147:HIS:HE1	9:g6:173:LEU:HB2	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:273:LEU:HB2	10:C6:280:VAL:CG1	1.90	0.89
13:M6:36:ARG:NH2	21:i6:1310:U:H6	1.68	0.89
21:i6:1172:U:O3'	35:j6:17:ARG:NH2	2.06	0.89
33:R6:58:MET:HA	33:R6:61:ILE:HD13	1.51	0.89
36:k4:170:LEU:CD2	36:k4:171:ASN:H	1.86	0.89
20:e1:40:ARG:C	20:e1:44:ASN:ND2	2.31	0.89
23:B1:28:LYS:HD3	23:B1:48:LEU:HD21	1.52	0.89
10:C2:65:LYS:CB	10:C2:279:ARG:HB3	2.01	0.89
21:i2:368:U:O2	36:k5:109:ALA:CB	2.21	0.89
31:P2:41:GLN:HB3	31:P2:84:ILE:HD13	0.90	0.89
9:g4:147:HIS:HE1	9:g4:173:LEU:HB2	1.38	0.89
21:i4:211:G:N1	21:i4:212:C:O2	2.06	0.89
9:g5:147:HIS:HE1	9:g5:173:LEU:HB2	1.38	0.89
13:M5:40:LYS:HZ2	21:i5:1310:U:H5''	1.11	0.89
22:A6:205:ARG:CG	22:A6:210:ILE:HG21	1.99	0.89
26:F6:127:ARG:HE	26:F6:128:ILE:HG23	1.38	0.89
36:k2:22:ILE:HD11	36:k2:50:VAL:CG2	2.01	0.89
37:l3:128:VAL:HG11	37:l3:165:ILE:C	1.98	0.89
8:f1:92:LYS:HD3	21:i1:1272:C:P	2.12	0.89
18:Z2:82:SER:N	21:i2:1598:G:C2'	2.35	0.89
34:S2:108:ARG:NH2	21:i4:1773:C:H6	1.51	0.89
10:C3:65:LYS:CB	10:C3:279:ARG:HB3	2.01	0.89
10:C4:64:THR:C	10:C4:277:HIS:CE1	2.50	0.89
26:F4:127:ARG:HE	26:F4:128:ILE:HG23	1.38	0.89
30:L4:121:GLN:HG2	30:L4:153:LYS:HE3	1.51	0.89
31:P5:15:PHE:HZ	31:P5:112:ILE:CD1	1.85	0.89
36:k1:10:ASN:CB	36:k1:56:HIS:ND1	2.36	0.89
36:k2:109:ALA:O	36:k2:166:ASN:ND2	2.04	0.89
36:k2:145:VAL:N	36:k2:167:ILE:HB	1.88	0.89
36:k3:88:TYR:O	36:k3:91:ILE:HG12	1.73	0.89
36:k5:118:SER:HB2	36:k5:119:PRO:HD2	1.55	0.89
37:l5:119:LYS:O	37:l5:120:ILE:HD13	1.72	0.89
13:M1:40:LYS:HZ1	21:i1:1310:U:H5''	1.11	0.88
21:i1:186:C:C2'	21:i1:187:G:H8	1.84	0.88
21:i3:1300:U:H2'	31:P3:51:ARG:CZ	2.03	0.88
21:i3:1608:U:H5''	34:S3:134:GLN:HE22	1.35	0.88
8:f4:92:LYS:CD	21:i4:1272:C:OP2	2.21	0.88
11:G5:186:GLN:NE2	21:i5:331:C:N3	2.21	0.88
21:i5:1070:A:OP2	36:k5:18:LYS:CD	2.20	0.88
37:l3:178:ILE:HD12	37:l3:190:ILE:HG22	1.49	0.88
10:C1:64:THR:C	10:C1:277:HIS:CE1	2.50	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N1:150:VAL:HG13	14:N1:151:ALA:H	1.37	0.88
21:i1:455:A:O2'	21:i1:1735:A:N3	2.06	0.88
21:i1:1841:C:C3'	35:j1:2:ARG:NH1	2.33	0.88
11:G2:143:LYS:HA	21:i2:1776:G:O2'	1.74	0.88
21:i2:61:A:N1	21:i2:334:C:C2'	2.35	0.88
22:A2:214:GLU:CG	33:R2:84:TYR:CE1	2.55	0.88
8:f3:92:LYS:HD3	21:i3:1272:C:P	2.12	0.88
18:Z3:82:SER:N	21:i3:1598:G:C2'	2.35	0.88
21:i3:368:U:H3	36:k1:110:ASN:CA	1.85	0.88
21:i3:1841:C:H3'	35:j3:2:ARG:NH1	1.85	0.88
21:i3:1843:G:H8	35:j3:4:LYS:NZ	1.62	0.88
10:C4:273:LEU:CD1	10:C4:280:VAL:CG1	2.40	0.88
21:i4:1300:U:C2	31:P4:51:ARG:NH1	2.36	0.88
20:e5:43:VAL:HG12	21:i5:551:U:O2'	1.72	0.88
21:i5:1754:G:O6	21:i5:1779:G:N3	2.07	0.88
10:C6:64:THR:C	10:C6:277:HIS:CE1	2.50	0.88
31:P6:41:GLN:OE1	31:P6:84:ILE:CG1	2.20	0.88
36:k1:95:GLN:CB	36:k1:134:ILE:HD13	1.96	0.88
36:k1:95:GLN:N	36:k1:133:ALA:O	2.05	0.88
36:k4:118:SER:HB2	36:k4:119:PRO:HD2	1.55	0.88
37:l2:128:VAL:HG11	37:l2:165:ILE:C	1.98	0.88
8:f1:92:LYS:CD	21:i1:1272:C:OP2	2.21	0.88
21:i1:556:U:H5'	21:i1:589:G:OP2	1.73	0.88
4:X2:55:VAL:HG23	20:e2:2:VAL:CB	2.01	0.88
12:J2:125:HIS:CG	21:i2:526:A:HO2'	1.86	0.88
21:i2:318:A:C2	21:i2:333:G:N3	2.41	0.88
30:L2:152:LYS:CE	30:L2:152:LYS:HA	2.02	0.88
13:M3:117:GLU:OE1	13:M3:118:SER:N	2.07	0.88
20:e3:31:ARG:HH12	21:i3:526:A:H5'	1.39	0.88
14:N4:150:VAL:HG13	14:N4:151:ALA:H	1.37	0.88
20:e4:36:MET:HE3	21:i4:553:U:OP1	1.74	0.88
21:i4:61:A:N1	21:i4:334:C:O2'	2.05	0.88
21:i4:1236:G:C5'	31:P4:133:ILE:CD1	2.12	0.88
22:A4:211:GLU:HG3	33:R4:81:ARG:NH2	1.85	0.88
28:I4:197:PHE:HA	28:I4:200:ARG:HD3	1.55	0.88
8:f5:92:LYS:HB3	21:i5:1303:C:C2'	2.04	0.88
12:J5:125:HIS:CB	21:i5:526:A:O2'	2.21	0.88
36:k5:36:ILE:N	36:k5:91:ILE:HG22	1.87	0.88
37:l1:179:GLN:HG3	37:l1:180:GLU:N	1.87	0.88
10:C1:273:LEU:HB2	10:C1:280:VAL:CG1	1.90	0.88
21:i1:13:C:H5'	21:i1:1356:G:H1'	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:691:G:H3'	21:i1:692:G:H5''	1.55	0.88
8:f2:80:ARG:CZ	21:i2:1509:U:O4	2.21	0.88
8:f2:92:LYS:HB3	21:i2:1303:C:C2'	2.04	0.88
8:f3:92:LYS:HB3	21:i3:1303:C:C2'	2.04	0.88
11:G3:141:ILE:CB	11:G3:144:LEU:CD2	2.44	0.88
13:M3:36:ARG:NH2	21:i3:1310:U:H6	1.68	0.88
21:i3:368:U:H3	36:k1:110:ASN:N	1.71	0.88
13:M4:117:GLU:OE1	13:M4:118:SER:N	2.07	0.88
21:i5:1300:U:H2'	31:P5:51:ARG:CZ	2.03	0.88
11:G6:143:LYS:CD	21:i6:1778:C:H5'	2.02	0.88
14:N6:29:THR:O	14:N6:31:ASP:N	2.06	0.88
21:i6:211:G:C5	21:i6:212:C:N3	2.41	0.88
21:i6:1378:A:P	22:A6:132:GLN:NE2	2.47	0.88
36:k1:95:GLN:CB	36:k1:134:ILE:HD12	2.01	0.88
36:k3:22:ILE:HD11	36:k3:50:VAL:CG2	2.02	0.88
36:k3:86:HIS:NE2	36:k3:141:HIS:CB	2.36	0.88
36:k4:33:PHE:HE1	36:k4:92:LEU:HD11	1.08	0.88
37:l5:179:GLN:HG3	37:l5:180:GLU:N	1.87	0.88
2:U1:19:ARG:HD3	2:U1:119:ALA:HB3	1.54	0.88
21:i1:1240:A:H2	31:P1:100:LYS:HA	1.34	0.88
21:i1:1765:C:OP2	31:P6:10:ARG:C	2.17	0.88
21:i1:1849:G:N2	37:l1:149:ALA:O	2.07	0.88
2:U2:19:ARG:HD3	2:U2:119:ALA:HB3	1.54	0.88
21:i2:1615:U:OP2	31:P2:43:ARG:NH1	2.06	0.88
21:i2:1751:C:H41	21:i2:1781:A:H2	0.97	0.88
8:f5:130:VAL:HG12	21:i5:1310:U:OP2	1.70	0.88
13:M5:117:GLU:OE1	13:M5:118:SER:N	2.07	0.88
8:f6:92:LYS:CD	21:i6:1272:C:OP2	2.21	0.88
12:J6:173:VAL:CB	21:i6:561:A:OP2	2.22	0.88
36:k6:39:TRP:CD1	36:k6:90:PHE:CZ	2.61	0.88
21:i1:867:G:O3'	30:L1:149:ALA:O	1.92	0.88
21:i1:970:G:C4	28:I3:200:ARG:NH2	2.40	0.88
4:X2:55:VAL:HG23	20:e2:2:VAL:HB	1.54	0.88
31:P2:121:ILE:CG1	31:P2:123:TYR:CD2	2.53	0.88
8:f3:100:LEU:HG	21:i3:1285:G:H4'	1.56	0.88
10:C3:64:THR:C	10:C3:277:HIS:CE1	2.50	0.88
13:M4:36:ARG:NH2	21:i4:1310:U:H6	1.68	0.88
21:i4:1843:G:OP2	35:j4:4:LYS:HD3	1.73	0.88
31:P4:121:ILE:CG1	31:P4:123:TYR:CD2	2.52	0.88
8:f5:92:LYS:CD	21:i5:1272:C:OP2	2.21	0.88
8:f6:92:LYS:HB3	21:i6:1303:C:C2'	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1378:A:P	22:A6:132:GLN:HE22	1.97	0.88
36:k3:86:HIS:CE1	36:k3:141:HIS:CB	2.56	0.88
36:k4:2:PHE:CG	36:k4:168:HIS:CE1	2.62	0.88
36:k4:83:ARG:CG	36:k4:175:TRP:CZ3	2.56	0.88
36:k5:68:LEU:HD13	36:k5:174:LEU:HD11	1.56	0.88
37:l5:128:VAL:HG11	37:l5:165:ILE:C	1.98	0.88
10:C1:74:LYS:HE2	10:C1:272:HIS:HB2	1.54	0.88
21:i1:1069:U:OP1	36:k1:18:LYS:HE2	1.74	0.88
31:P1:121:ILE:CG1	31:P1:123:TYR:CD2	2.53	0.88
15:O2:66:ARG:HD2	28:I4:125:LYS:HD2	0.89	0.88
10:C4:65:LYS:CB	10:C4:279:ARG:HB3	2.01	0.88
10:C6:142:LYS:HG2	10:C6:157:LEU:HD13	1.56	0.88
18:Z6:82:SER:N	21:i6:1598:G:C2'	2.35	0.88
31:P6:121:ILE:CG1	31:P6:123:TYR:CD2	2.53	0.88
8:f1:92:LYS:HB3	21:i1:1303:C:C2'	2.04	0.88
8:f1:144:CYS:HG	38:f1:500:ZN:ZN	0.56	0.88
13:M1:36:ARG:NH2	21:i1:1310:U:H6	1.68	0.88
8:f2:92:LYS:CD	21:i2:1272:C:OP2	2.21	0.88
13:M2:40:LYS:HZ2	21:i2:1310:U:H5''	1.11	0.88
20:e2:43:VAL:CG1	21:i2:551:U:O2'	2.22	0.88
21:i2:11:A:N3	21:i2:1357:A:O2'	2.07	0.88
21:i2:956:G:OP1	28:I4:157:LYS:CE	2.21	0.88
21:i3:1240:A:H2	31:P3:100:LYS:HA	1.34	0.88
22:A4:214:GLU:CG	33:R4:84:TYR:CE1	2.56	0.88
11:G5:142:ARG:HD2	11:G5:147:LEU:HD12	1.55	0.88
26:F5:137:GLN:HB3	26:F5:204:ARG:CA	2.04	0.88
31:P5:41:GLN:CD	31:P5:84:ILE:HG23	1.98	0.88
21:i6:1376:A:H3'	22:A6:102:ARG:HE	1.35	0.88
2:U1:19:ARG:HB3	2:U1:118:ASP:C	1.99	0.88
14:N2:131:THR:O	30:L2:152:LYS:HD3	1.71	0.88
21:i2:1300:U:H2'	31:P2:51:ARG:CZ	2.03	0.88
22:A3:214:GLU:CG	33:R3:84:TYR:CE1	2.56	0.88
31:P3:121:ILE:CG1	31:P3:123:TYR:CD2	2.53	0.88
15:O4:63:LYS:CE	28:I5:163:GLU:HG3	2.04	0.88
16:W4:115:GLU:OE2	16:W4:119:LYS:NZ	2.07	0.88
18:Z4:85:ARG:HH21	18:Z4:85:ARG:HG3	1.39	0.88
21:i6:316:G:C2	21:i6:335:G:C2	2.62	0.88
36:k2:118:SER:HB2	36:k2:119:PRO:HD2	1.55	0.88
37:l4:128:VAL:HG11	37:l4:165:ILE:C	1.98	0.88
8:f2:100:LEU:HG	21:i2:1285:G:H4'	1.56	0.88
11:G2:189:ARG:CZ	21:i2:330:G:O6	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f3:92:LYS:CD	21:i3:1272:C:OP2	2.21	0.88
21:i5:368:U:N3	36:k4:109:ALA:HB1	1.89	0.88
8:f6:92:LYS:HE2	21:i6:1272:C:OP2	1.74	0.88
8:f6:100:LEU:HG	21:i6:1285:G:H4'	1.56	0.88
36:k2:39:TRP:NE1	36:k2:90:PHE:HZ	1.70	0.88
36:k4:116:LEU:HD11	36:k4:164:ILE:HG13	1.56	0.88
36:k5:92:LEU:CD2	36:k5:131:ILE:HB	2.04	0.88
37:l2:179:GLN:HG3	37:l2:180:GLU:N	1.87	0.88
21:i1:868:G:P	30:L1:149:ALA:O	2.32	0.87
22:A1:211:GLU:HG3	33:R1:81:ARG:NH2	1.84	0.87
26:F1:137:GLN:HB3	26:F1:204:ARG:CA	2.04	0.87
21:i2:1765:C:OP1	31:P5:11:THR:CG2	2.22	0.87
2:U4:19:ARG:HB3	2:U4:118:ASP:C	1.99	0.87
10:C4:74:LYS:HE2	10:C4:272:HIS:HB2	1.54	0.87
31:P4:96:VAL:CG2	31:P4:116:LEU:HD11	2.00	0.87
34:S4:105:ASN:ND2	21:i5:1761:U:O5'	2.06	0.87
14:N5:150:VAL:HG13	14:N5:151:ALA:H	1.37	0.87
21:i5:1708:C:H1'	37:l5:153:SER:HB2	1.55	0.87
22:A5:214:GLU:CG	33:R5:84:TYR:CE1	2.56	0.87
26:F5:127:ARG:HE	26:F5:128:ILE:HG23	1.38	0.87
2:U6:19:ARG:HB3	2:U6:118:ASP:C	1.99	0.87
13:M6:117:GLU:OE1	13:M6:118:SER:N	2.07	0.87
36:k3:143:LEU:O	36:k3:169:TYR:HA	1.73	0.87
36:k5:95:GLN:CG	36:k5:164:ILE:HD13	1.97	0.87
8:f4:100:LEU:HG	21:i4:1285:G:H4'	1.56	0.87
21:i6:1849:G:OP2	37:l6:146:ARG:HG2	1.73	0.87
36:k1:95:GLN:HG2	36:k1:164:ILE:HD13	1.57	0.87
37:l3:179:GLN:HG3	37:l3:180:GLU:N	1.87	0.87
11:G2:142:ARG:HD2	11:G2:147:LEU:HD12	1.55	0.87
26:F2:137:GLN:HB3	26:F2:204:ARG:CA	2.04	0.87
8:f4:92:LYS:HD3	21:i4:1272:C:P	2.12	0.87
26:F4:137:GLN:HB3	26:F4:204:ARG:CA	2.04	0.87
21:i6:1300:U:H2'	31:P6:51:ARG:CZ	2.03	0.87
36:k6:94:HIS:CG	36:k6:135:MET:HG2	2.09	0.87
8:f1:92:LYS:HE2	21:i1:1272:C:OP2	1.74	0.87
13:M1:117:GLU:OE1	13:M1:118:SER:N	2.07	0.87
8:f3:95:ARG:HE	21:i3:1289:U:H5''	0.82	0.87
8:f3:103:LEU:HA	13:M3:64:LEU:HD11	1.57	0.87
8:f4:92:LYS:HB3	21:i4:1303:C:C2'	2.04	0.87
21:i5:61:A:C4'	21:i5:317:C:H1'	2.04	0.87
21:i5:1174:U:O5'	35:j5:21:ARG:NH2	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:273:LEU:CD1	10:C6:280:VAL:CG1	2.40	0.87
31:P6:41:GLN:CD	31:P6:84:ILE:CG2	2.47	0.87
21:i1:1300:U:H2'	31:P1:51:ARG:CZ	2.03	0.87
21:i1:1834:A:H2	21:i1:1837:G:H22	1.22	0.87
8:f3:92:LYS:HE2	21:i3:1272:C:OP2	1.75	0.87
11:G5:191:ARG:NE	21:i5:314:U:C5	2.34	0.87
21:i5:1828:C:H4'	37:l5:154:CYS:HA	1.55	0.87
18:Z6:85:ARG:HH21	18:Z6:85:ARG:HG3	1.39	0.87
4:X1:61:GLN:OE1	21:i1:1824:A:C8	2.27	0.87
21:i1:1172:U:P	35:j1:14:LYS:NZ	2.48	0.87
30:L1:152:LYS:HE3	30:L1:152:LYS:HA	1.56	0.87
13:M2:125:GLU:HB3	13:M2:129:LYS:CE	2.05	0.87
2:U3:19:ARG:HB3	2:U3:118:ASP:C	1.99	0.87
8:f4:103:LEU:HA	13:M4:64:LEU:HD11	1.57	0.87
16:W4:111:MET:CE	16:W4:119:LYS:CD	2.42	0.87
21:i4:1719:A:P	35:j4:24:SER:OG	2.32	0.87
14:N5:129:TYR:HB3	14:N5:134:VAL:HG21	0.88	0.87
18:Z5:85:ARG:HH21	18:Z5:85:ARG:HG3	1.39	0.87
14:N6:150:VAL:HG13	14:N6:151:ALA:H	1.37	0.87
36:k5:33:PHE:HE1	36:k5:131:ILE:HD12	1.33	0.87
36:k5:94:HIS:HA	36:k5:133:ALA:C	1.97	0.87
36:k6:83:ARG:NH2	36:k6:175:TRP:CD2	2.42	0.87
37:l4:178:ILE:HD12	37:l4:190:ILE:HG22	1.49	0.87
9:g1:147:HIS:HE1	9:g1:173:LEU:HB2	1.38	0.87
21:i1:12:U:O4'	21:i1:1357:A:O4'	1.91	0.87
21:i2:733:C:C2	27:H2:149:ASP:O	2.28	0.87
26:F2:127:ARG:HE	26:F2:128:ILE:HG23	1.38	0.87
21:i3:185:G:N2	21:i3:214:U:O2	2.07	0.87
8:f4:92:LYS:HE2	21:i4:1272:C:OP2	1.75	0.87
14:N4:133:ARG:NH2	30:L4:154:GLN:HA	1.90	0.87
21:i4:739:C:N4	21:i4:746:C:H42	1.69	0.87
36:k3:86:HIS:CD2	36:k3:141:HIS:CB	2.57	0.87
13:M1:125:GLU:HB3	13:M1:129:LYS:CE	2.05	0.87
21:i2:969:U:H2'	28:I4:196:GLU:OE1	1.05	0.87
21:i2:1377:U:C5	22:A2:102:ARG:CZ	2.57	0.87
11:G3:189:ARG:NH1	21:i3:330:G:N7	2.23	0.87
26:F3:137:GLN:HB3	26:F3:204:ARG:CA	2.04	0.87
2:U5:19:ARG:HB3	2:U5:118:ASP:C	1.99	0.87
17:Y5:16:ARG:HD2	25:E5:95:THR:HG22	1.57	0.87
13:M6:125:GLU:HB3	13:M6:129:LYS:CE	2.05	0.87
36:k3:118:SER:HB2	36:k3:119:PRO:HD2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l1:128:VAL:HG11	37:l1:165:ILE:C	1.98	0.87
4:X1:61:GLN:CD	21:i1:1824:A:C8	2.53	0.87
21:i1:1173:A:P	35:j1:14:LYS:HG2	2.15	0.87
14:N2:133:ARG:HG3	30:L2:152:LYS:HG3	0.89	0.87
18:Z2:82:SER:HB3	21:i2:1598:G:C5'	2.05	0.87
21:i2:970:G:N2	28:I4:200:ARG:HG2	1.90	0.87
2:U3:19:ARG:HD3	2:U3:119:ALA:HB3	1.54	0.87
11:G3:139:SER:O	11:G3:142:ARG:HG3	1.75	0.87
11:G3:190:ARG:NH2	21:i3:333:G:C5	2.43	0.87
21:i3:1754:G:O6	21:i3:1779:G:N3	2.08	0.87
18:Z4:50:PHE:O	34:S4:5:ILE:HG23	1.75	0.87
8:f5:100:LEU:HG	21:i5:1285:G:H4'	1.56	0.87
22:A5:89:LYS:HZ3	33:R5:82:ASP:CG	1.77	0.87
8:f6:105:TYR:HH	8:f6:131:PHE:HB3	1.38	0.87
11:G6:139:SER:O	11:G6:142:ARG:HG3	1.75	0.87
36:k2:83:ARG:CZ	36:k2:175:TRP:CD2	2.58	0.87
21:i1:1058:A:H2	37:l1:126:LYS:HE2	1.39	0.86
26:F1:127:ARG:HE	26:F1:128:ILE:HG23	1.38	0.86
2:U2:19:ARG:HB3	2:U2:118:ASP:C	1.99	0.86
8:f2:103:LEU:HA	13:M2:64:LEU:HD11	1.57	0.86
13:M2:117:GLU:OE1	13:M2:118:SER:N	2.07	0.86
17:Y2:109:GLU:CG	17:Y2:113:ARG:CZ	2.53	0.86
22:A3:205:ARG:CG	22:A3:210:ILE:HG21	1.99	0.86
16:W4:52:ILE:HG23	27:H4:144:ILE:HG23	1.57	0.86
20:e4:25:LYS:HD2	21:i4:554:A:OP1	1.74	0.86
21:i5:1689:C:H3'	21:i5:1690:U:P	2.14	0.86
18:Z6:82:SER:HB3	21:i6:1598:G:C5'	2.04	0.86
36:k1:68:LEU:HD11	36:k1:178:LYS:O	1.75	0.86
37:l2:178:ILE:HD13	37:l2:190:ILE:HG23	1.57	0.86
8:f1:100:LEU:HG	21:i1:1285:G:H4'	1.55	0.86
33:R1:61:ILE:C	33:R1:73:LEU:HD22	2.00	0.86
8:f2:105:TYR:HH	8:f2:131:PHE:HB3	1.05	0.86
21:i2:1772:C:C4'	34:S5:112:GLU:CD	2.45	0.86
21:i4:1300:U:H2'	31:P4:51:ARG:CZ	2.04	0.86
21:i4:1621:U:O4'	31:P4:115:TYR:HE1	1.58	0.86
21:i4:1828:C:H5'	37:l4:154:CYS:SG	2.15	0.86
21:i5:1144:A:H5'	21:i5:1355:C:C5	2.10	0.86
21:i5:1621:U:O4'	31:P5:115:TYR:HE1	1.58	0.86
18:Z6:50:PHE:O	34:S6:5:ILE:HG23	1.74	0.86
21:i6:1173:A:OP1	35:j6:17:ARG:NH2	2.09	0.86
36:k4:170:LEU:CG	36:k4:171:ASN:H	1.86	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:118:SER:HB2	36:k6:119:PRO:HD2	1.56	0.86
8:f2:95:ARG:CB	21:i2:1289:U:P	2.64	0.86
10:C2:270:THR:HG21	22:A2:69:GLU:HB2	0.86	0.86
17:Y2:16:ARG:HD2	25:E2:95:THR:HG22	1.57	0.86
21:i2:187:G:C2	21:i2:213:G:C2	2.62	0.86
11:G4:142:ARG:HD2	11:G4:147:LEU:HD12	1.55	0.86
11:G4:189:ARG:NH1	21:i4:330:G:O6	2.08	0.86
13:M4:125:GLU:HB3	13:M4:129:LYS:CE	2.05	0.86
21:i4:1300:U:C5	31:P4:51:ARG:HD2	2.08	0.86
33:R6:21:TYR:OH	33:R6:72:LYS:HE3	1.74	0.86
36:k4:33:PHE:CD1	36:k4:92:LEU:CD1	2.58	0.86
11:G1:92:ARG:NH2	21:i1:1738:C:OP1	2.09	0.86
11:G1:143:LYS:CG	21:i1:1776:G:O3'	2.22	0.86
31:P1:96:VAL:CG2	31:P1:116:LEU:HD11	2.00	0.86
8:f2:92:LYS:HE2	21:i2:1272:C:OP2	1.74	0.86
18:Z3:82:SER:HB3	21:i3:1598:G:C5'	2.04	0.86
30:L3:121:GLN:HG3	30:L3:153:LYS:NZ	1.90	0.86
11:G4:189:ARG:HD2	21:i4:330:G:C8	2.10	0.86
11:G6:141:ILE:CB	11:G6:144:LEU:CD2	2.43	0.86
17:Y1:16:ARG:HD2	25:E1:95:THR:HG22	1.58	0.86
28:I1:196:GLU:OE2	28:I1:200:ARG:NH2	2.08	0.86
18:Z2:85:ARG:HG3	18:Z2:85:ARG:HH21	1.39	0.86
8:f3:95:ARG:CB	21:i3:1289:U:P	2.64	0.86
18:Z5:82:SER:HB3	21:i5:1598:G:C5'	2.05	0.86
21:i5:628:A:N6	24:D5:145:GLN:HG3	1.91	0.86
13:M6:111:VAL:CG1	13:M6:114:TYR:CE1	2.59	0.86
36:k3:2:PHE:CB	36:k3:168:HIS:HE1	1.70	0.86
36:k6:39:TRP:CD1	36:k6:90:PHE:CE1	2.64	0.86
37:I3:178:ILE:HD13	37:I3:190:ILE:HG23	1.58	0.86
8:f1:95:ARG:CB	21:i1:1289:U:P	2.63	0.86
16:W1:52:ILE:HG23	27:H1:144:ILE:HG23	1.57	0.86
21:i1:1689:C:C2'	21:i1:1690:U:H5'	2.03	0.86
22:A1:205:ARG:CG	22:A1:210:ILE:HG21	1.99	0.86
28:I1:205:ARG:HH11	36:k6:56:HIS:CE1	1.93	0.86
34:S1:50:ILE:HD12	34:S1:67:VAL:CG2	2.06	0.86
18:Z2:50:PHE:O	34:S2:5:ILE:HG23	1.75	0.86
21:i3:1834:A:H2	21:i3:1837:G:H22	1.17	0.86
33:R5:21:TYR:CD2	33:R5:72:LYS:CD	2.58	0.86
36:k2:170:LEU:CD2	36:k2:171:ASN:N	2.32	0.86
36:k3:85:LEU:HD21	36:k3:133:ALA:HB1	1.57	0.86
10:C1:65:LYS:CB	10:C1:279:ARG:HB3	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G2:139:SER:O	11:G2:142:ARG:HG3	1.75	0.86
18:Z2:86:ALA:CB	34:S2:3:LEU:CD1	2.53	0.86
20:e2:45:VAL:CG2	21:i2:535:G:H5'	1.95	0.86
21:i2:331:C:H2'	21:i2:332:G:C8	2.11	0.86
8:f3:80:ARG:NE	21:i3:1509:U:O4	2.08	0.86
21:i3:968:U:C4	28:I6:203:LYS:NZ	2.43	0.86
21:i4:1615:U:OP2	31:P4:43:ARG:NH1	2.08	0.86
12:J6:173:VAL:CG2	21:i6:561:A:OP2	2.23	0.86
16:W6:52:ILE:HG23	27:H6:144:ILE:HG23	1.57	0.86
20:e6:31:ARG:NH1	21:i6:525:A:O3'	2.08	0.86
36:k2:22:ILE:CD1	36:k2:50:VAL:HG22	2.05	0.86
36:k3:22:ILE:CD1	36:k3:50:VAL:HG22	2.06	0.86
36:k5:22:ILE:CD1	36:k5:50:VAL:HG22	2.06	0.86
36:k6:22:ILE:CD1	36:k6:50:VAL:HG22	2.06	0.86
21:i2:1621:U:O4'	31:P2:115:TYR:HE1	1.58	0.86
8:f3:92:LYS:HD3	21:i3:1272:C:OP2	1.76	0.86
8:f4:92:LYS:HD3	21:i4:1272:C:OP2	1.76	0.86
18:Z4:82:SER:HB3	21:i4:1598:G:C5'	2.04	0.86
31:P4:41:GLN:CD	31:P4:84:ILE:HG23	2.00	0.86
21:i5:1144:A:H5'	21:i5:1355:C:H5	1.40	0.86
10:C6:65:LYS:CB	10:C6:279:ARG:HB3	2.01	0.86
36:k1:86:HIS:CG	36:k1:141:HIS:HB3	2.11	0.86
36:k4:85:LEU:HD21	36:k4:133:ALA:HB1	1.57	0.86
21:i1:1621:U:O4'	31:P1:115:TYR:HE1	1.58	0.86
33:R1:64:GLY:C	33:R1:73:LEU:HD21	2.01	0.86
8:f2:92:LYS:HD3	21:i2:1272:C:OP2	1.76	0.86
34:S2:50:ILE:HD12	34:S2:67:VAL:CG2	2.06	0.86
13:M3:125:GLU:HB3	13:M3:129:LYS:CE	2.05	0.86
18:Z3:50:PHE:O	34:S3:5:ILE:HG23	1.74	0.86
8:f5:103:LEU:HA	13:M5:64:LEU:HD11	1.57	0.86
13:M5:111:VAL:CG1	13:M5:114:TYR:CE1	2.59	0.86
13:M5:125:GLU:HB3	13:M5:129:LYS:CE	2.05	0.86
14:N5:148:ALA:N	14:N5:149:LEU:HB3	1.91	0.86
16:W5:52:ILE:HG23	27:H5:144:ILE:HG23	1.57	0.86
8:f6:92:LYS:HD3	21:i6:1272:C:OP2	1.76	0.86
8:f6:103:LEU:HA	13:M6:64:LEU:HD11	1.56	0.86
37:I5:178:ILE:HD13	37:I5:190:ILE:HG23	1.58	0.86
37:I6:128:VAL:HG11	37:I6:165:ILE:C	1.98	0.86
11:G1:143:LYS:CD	21:i1:1777:G:P	2.59	0.86
21:i2:187:G:N1	21:i2:213:G:C2	2.44	0.86
21:i2:1772:C:O2'	34:S5:108:ARG:HD2	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C3:74:LYS:HE2	10:C3:272:HIS:CD2	2.11	0.86
21:i3:368:U:N3	36:k1:110:ASN:HB2	1.90	0.86
28:I3:207:GLY:C	36:k1:12:SER:HB2	2.01	0.86
31:P3:15:PHE:CG	31:P3:16:THR:N	2.39	0.86
34:S3:50:ILE:HD12	34:S3:67:VAL:CG2	2.06	0.86
31:P4:121:ILE:CD1	31:P4:123:TYR:CZ	2.59	0.86
11:G5:143:LYS:CD	21:i5:1778:C:H5'	1.99	0.86
14:N6:148:ALA:N	14:N6:149:LEU:HB3	1.91	0.86
30:L6:121:GLN:CG	30:L6:153:LYS:CE	2.53	0.86
30:L6:121:GLN:HG2	30:L6:153:LYS:HE3	1.58	0.86
37:I4:115:VAL:O	37:I4:116:THR:OG1	1.94	0.86
18:Z1:82:SER:HB3	21:i1:1598:G:C5'	2.05	0.85
22:A2:214:GLU:OE1	33:R2:84:TYR:CD1	2.29	0.85
23:B2:24:PRO:CD	30:L4:27:GLU:HB3	2.06	0.85
30:L2:152:LYS:HE3	30:L2:152:LYS:HA	1.56	0.85
31:P2:121:ILE:CD1	31:P2:123:TYR:CZ	2.59	0.85
20:e3:25:LYS:CD	21:i3:554:A:OP2	2.23	0.85
31:P3:121:ILE:CD1	31:P3:123:TYR:CZ	2.59	0.85
23:B4:21:VAL:HA	30:L5:31:GLU:CG	2.07	0.85
9:g5:18:VAL:HA	9:g5:35:SER:HA	1.58	0.85
10:C5:121:ARG:NH2	21:i5:1347:U:OP1	2.08	0.85
36:k6:83:ARG:HG2	36:k6:175:TRP:CZ3	2.11	0.85
37:I3:115:VAL:O	37:I3:116:THR:OG1	1.94	0.85
37:I5:115:VAL:O	37:I5:116:THR:OG1	1.94	0.85
18:Z1:86:ALA:CB	34:S1:3:LEU:CD1	2.53	0.85
21:i1:1172:U:C5'	35:j1:14:LYS:CD	2.23	0.85
18:Z3:80:ARG:HH12	34:S3:23:ARG:CD	1.90	0.85
21:i3:1751:C:H5	21:i3:1781:A:C2	1.92	0.85
23:B4:21:VAL:HG23	30:L5:31:GLU:HA	0.86	0.85
8:f5:92:LYS:HE2	21:i5:1272:C:OP2	1.74	0.85
10:C5:65:LYS:CB	10:C5:279:ARG:HB3	2.01	0.85
21:i6:1621:U:O4'	31:P6:115:TYR:HE1	1.59	0.85
30:L6:144:LYS:NZ	30:L6:146:THR:HG21	1.91	0.85
36:k1:22:ILE:CD1	36:k1:50:VAL:HG22	2.06	0.85
37:I6:179:GLN:HG3	37:I6:180:GLU:N	1.87	0.85
21:i2:1240:A:N1	31:P2:100:LYS:HA	1.91	0.85
28:I2:125:LYS:HD3	15:O5:66:ARG:CZ	2.06	0.85
21:i3:1240:A:N1	31:P3:100:LYS:HA	1.92	0.85
21:i3:1377:U:OP2	22:A3:102:ARG:HD2	1.75	0.85
21:i3:1621:U:O4'	31:P3:115:TYR:HE1	1.58	0.85
21:i3:1700:C:C2	21:i3:1834:A:N6	2.44	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e5:29:THR:HA	20:e5:33:LYS:HG2	1.59	0.85
8:f6:95:ARG:CB	21:i6:1289:U:P	2.63	0.85
10:C6:74:LYS:HE2	10:C6:272:HIS:HB2	1.54	0.85
11:G6:142:ARG:HD2	11:G6:147:LEU:HD12	1.55	0.85
30:L6:121:GLN:HG3	30:L6:153:LYS:CE	2.04	0.85
36:k2:83:ARG:NH2	36:k2:175:TRP:CD1	2.43	0.85
36:k4:22:ILE:CD1	36:k4:50:VAL:HG22	2.06	0.85
37:l4:179:GLN:CG	37:l4:180:GLU:H	1.89	0.85
8:f1:103:LEU:HA	13:M1:64:LEU:HD11	1.57	0.85
11:G1:139:SER:C	11:G1:142:ARG:HG3	2.02	0.85
13:M1:111:VAL:CG1	13:M1:114:TYR:CE1	2.59	0.85
8:f2:95:ARG:HE	21:i2:1289:U:H5'	0.82	0.85
21:i2:1240:A:H2	31:P2:100:LYS:HA	1.34	0.85
11:G3:142:ARG:HD2	11:G3:147:LEU:HD12	1.55	0.85
8:f5:95:ARG:CB	21:i5:1289:U:P	2.64	0.85
18:Z6:80:ARG:HH12	34:S6:23:ARG:CD	1.90	0.85
30:L1:152:LYS:CE	30:L1:152:LYS:HA	2.06	0.85
34:S1:108:ARG:NE	21:i3:1772:C:H2'	1.90	0.85
34:S1:108:ARG:NH2	21:i3:1772:C:H2'	1.90	0.85
8:f2:80:ARG:NH2	21:i2:1503:C:O2	2.08	0.85
13:M3:111:VAL:CG1	13:M3:114:TYR:CE1	2.59	0.85
18:Z4:80:ARG:HH12	34:S4:23:ARG:CD	1.89	0.85
21:i4:1240:A:N1	31:P4:100:LYS:HA	1.92	0.85
11:G5:139:SER:O	11:G5:142:ARG:HG3	1.75	0.85
13:M5:14:VAL:HG13	13:M5:127:TYR:CD1	2.11	0.85
31:P5:45:LEU:HD12	31:P5:49:LEU:CD2	2.06	0.85
13:M6:40:LYS:HZ3	21:i6:1310:U:C5'	1.79	0.85
31:P6:121:ILE:CD1	31:P6:123:TYR:CZ	2.59	0.85
36:k1:118:SER:HB2	36:k1:119:PRO:HD2	1.55	0.85
37:l6:115:VAL:O	37:l6:116:THR:OG1	1.94	0.85
10:C1:270:THR:HG21	22:A1:69:GLU:HB2	0.86	0.85
20:e1:40:ARG:HA	20:e1:44:ASN:ND2	1.92	0.85
31:P1:96:VAL:HG22	31:P1:116:LEU:CD1	1.80	0.85
13:M2:111:VAL:CG1	13:M2:114:TYR:CE1	2.59	0.85
10:C4:270:THR:HG21	22:A4:69:GLU:HB2	0.87	0.85
11:G4:139:SER:O	11:G4:142:ARG:HG3	1.75	0.85
11:G6:143:LYS:HD3	21:i6:1778:C:C5'	2.04	0.85
21:i6:1852:C:OP2	35:j6:1:MET:HB2	1.76	0.85
36:k1:145:VAL:C	36:k1:167:ILE:HG13	2.01	0.85
36:k2:94:HIS:CB	36:k2:135:MET:HG2	2.06	0.85
36:k4:94:HIS:CB	36:k4:135:MET:HG2	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e1:40:ARG:CA	20:e1:44:ASN:HD21	1.89	0.85
21:i1:61:A:H2	21:i1:334:C:O2	1.56	0.85
13:M2:14:VAL:HG13	13:M2:127:TYR:CD1	2.11	0.85
8:f4:95:ARG:CB	21:i4:1289:U:P	2.63	0.85
8:f5:92:LYS:HD3	21:i5:1272:C:OP2	1.76	0.85
18:Z5:86:ALA:CB	34:S5:3:LEU:CD1	2.53	0.85
21:i5:688:U:H1'	21:i5:689:U:OP2	1.76	0.85
36:k2:144:CYS:CB	36:k2:168:HIS:O	2.25	0.85
8:f1:92:LYS:HD3	21:i1:1272:C:OP2	1.76	0.85
11:G1:216:ARG:HA	11:G1:219:GLU:HG2	1.59	0.85
18:Z1:85:ARG:HG3	18:Z1:85:ARG:HH21	1.39	0.85
21:i1:696:G:H22	21:i1:734:C:H5''	1.38	0.85
31:P2:41:GLN:CD	31:P2:84:ILE:HG23	2.01	0.85
13:M3:14:VAL:HG13	13:M3:127:TYR:CD1	2.11	0.85
18:Z3:85:ARG:HH21	18:Z3:85:ARG:HG3	1.39	0.85
21:i3:337:C:C2'	21:i3:338:G:H4'	2.05	0.85
21:i3:970:G:H21	28:I6:200:ARG:NH1	1.75	0.85
26:F3:182:LYS:HB3	21:i6:201:C:OP2	1.76	0.85
11:G4:139:SER:C	11:G4:142:ARG:HG3	2.02	0.85
18:Z4:86:ALA:CB	34:S4:3:LEU:CD1	2.53	0.85
21:i4:693:A:C2	21:i4:738:C:C1'	2.58	0.85
11:G6:147:LEU:HD22	11:G6:148:SER:H	1.41	0.85
21:i6:1240:A:N1	31:P6:100:LYS:HA	1.92	0.85
36:k5:168:HIS:NE2	36:k5:174:LEU:CB	2.40	0.85
37:l3:180:GLU:HG2	37:l3:181:LYS:CD	2.07	0.85
37:l6:179:GLN:CG	37:l6:180:GLU:H	1.89	0.85
13:M1:14:VAL:HG13	13:M1:127:TYR:CD1	2.12	0.85
18:Z1:70:PRO:HG3	18:Z1:88:LEU:CG	2.07	0.85
21:i1:1757:G:C5	21:i1:1776:G:O6	2.30	0.85
17:Y2:109:GLU:OE2	17:Y2:113:ARG:CD	2.25	0.85
20:e2:43:VAL:HG11	21:i2:551:U:C1'	2.07	0.85
21:i2:688:U:C4	27:H2:100:ILE:HG22	2.12	0.85
21:i2:1236:G:H5''	31:P2:133:ILE:CD1	2.06	0.85
17:Y4:16:ARG:HD2	25:E4:95:THR:HG22	1.57	0.85
31:P4:107:ILE:HA	31:P4:111:MET:SD	2.17	0.85
11:G5:139:SER:C	11:G5:142:ARG:HG3	2.02	0.85
13:M5:36:ARG:NH2	21:i5:1310:U:H6	1.68	0.85
30:L5:153:LYS:O	30:L5:153:LYS:NZ	2.08	0.85
18:Z6:70:PRO:HG3	18:Z6:88:LEU:CG	2.07	0.85
36:k1:94:HIS:CG	36:k1:135:MET:CG	2.59	0.85
36:k2:86:HIS:CG	36:k2:141:HIS:HB3	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l1:180:GLU:CG	37:l1:181:LYS:HB3	2.07	0.85
37:l2:180:GLU:HG2	37:l2:181:LYS:CD	2.07	0.85
37:l4:178:ILE:CB	37:l4:190:ILE:HD13	2.07	0.85
18:Z1:80:ARG:HH12	34:S1:23:ARG:CD	1.89	0.85
23:B2:21:VAL:O	30:L4:30:LYS:HA	1.76	0.85
16:W3:52:ILE:HG23	27:H3:144:ILE:HG23	1.57	0.85
21:i3:1757:G:C5	21:i3:1776:G:O6	2.30	0.85
30:L3:121:GLN:HG3	30:L3:153:LYS:HZ1	1.42	0.85
9:g4:18:VAL:HA	9:g4:35:SER:HA	1.59	0.85
28:I5:196:GLU:OE2	28:I5:200:ARG:NH2	2.09	0.85
36:k1:82:LEU:CD1	36:k1:169:TYR:C	2.50	0.85
36:k2:170:LEU:HD23	36:k2:171:ASN:H	1.25	0.85
37:l2:115:VAL:O	37:l2:116:THR:OG1	1.94	0.85
10:C1:145:LYS:HG3	21:i1:1348:G:C4'	2.07	0.84
11:G1:139:SER:O	11:G1:142:ARG:HG3	1.75	0.84
11:G1:141:ILE:CB	11:G1:144:LEU:CD2	2.44	0.84
18:Z2:80:ARG:HH12	34:S2:23:ARG:CD	1.90	0.84
28:I2:200:ARG:CD	21:i5:970:G:N2	2.40	0.84
11:G3:139:SER:C	11:G3:142:ARG:HG3	2.02	0.84
33:R3:65:PRO:HA	33:R3:73:LEU:HD21	1.57	0.84
12:J4:173:VAL:HG21	21:i4:561:A:H62	1.02	0.84
18:Z5:70:PRO:HG3	18:Z5:88:LEU:CG	2.07	0.84
21:i5:690:G:H5''	21:i5:690:G:N3	1.92	0.84
11:G6:139:SER:C	11:G6:142:ARG:HG3	2.02	0.84
21:i6:690:G:H5''	21:i6:690:G:N3	1.91	0.84
31:P6:107:ILE:HA	31:P6:111:MET:SD	2.17	0.84
37:l2:178:ILE:CB	37:l2:190:ILE:HD13	2.07	0.84
14:N1:133:ARG:CG	30:L1:152:LYS:HG3	2.06	0.84
28:I1:206:LYS:O	36:k6:12:SER:HA	1.78	0.84
17:Y3:16:ARG:HD2	25:E3:95:THR:HG22	1.57	0.84
18:Z3:70:PRO:HG3	18:Z3:88:LEU:CG	2.07	0.84
18:Z3:86:ALA:CB	34:S3:3:LEU:CD1	2.53	0.84
20:e3:45:VAL:HG11	21:i3:535:G:C5'	2.06	0.84
8:f4:93:HIS:CE1	21:i4:1305:C:OP1	2.30	0.84
18:Z4:49:LEU:HD11	34:S4:5:ILE:HG23	1.59	0.84
26:F4:184:SER:HB2	21:i5:202:G:OP2	1.76	0.84
21:i5:1707:U:O2	37:l5:153:SER:OG	1.95	0.84
21:i5:1757:G:C5	21:i5:1776:G:O6	2.30	0.84
22:A5:211:GLU:CB	33:R5:81:ARG:NH2	2.40	0.84
30:L5:55:TYR:OH	30:L5:116:CYS:SG	2.35	0.84
10:C6:145:LYS:CG	21:i6:1348:G:C4'	2.49	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z6:86:ALA:CB	34:S6:3:LEU:CD1	2.53	0.84
36:k6:168:HIS:NE2	36:k6:174:LEU:HB3	1.92	0.84
37:l4:180:GLU:CG	37:l4:181:LYS:HB3	2.07	0.84
37:l6:128:VAL:CG1	37:l6:166:ILE:O	2.25	0.84
28:l1:163:GLU:HG3	15:O6:63:LYS:HE3	1.56	0.84
8:f3:80:ARG:NH2	21:i3:1503:C:H1'	1.92	0.84
14:N3:148:ALA:N	14:N3:149:LEU:HB3	1.91	0.84
13:M4:111:VAL:CG1	13:M4:114:TYR:CE1	2.59	0.84
18:Z5:80:ARG:HH12	34:S5:23:ARG:CD	1.90	0.84
34:S5:50:ILE:HD12	34:S5:67:VAL:CG2	2.06	0.84
13:M6:14:VAL:HG13	13:M6:127:TYR:CD1	2.11	0.84
18:Z6:49:LEU:HD11	34:S6:5:ILE:HG23	1.60	0.84
21:i6:1757:G:C5	21:i6:1776:G:O6	2.30	0.84
13:M2:36:ARG:NH2	21:i2:1310:U:H6	1.68	0.84
13:M2:111:VAL:HG11	13:M2:114:TYR:HE1	1.42	0.84
31:P3:35:GLN:HA	31:P3:42:ARG:NH1	1.93	0.84
11:G4:216:ARG:HA	11:G4:219:GLU:HG2	1.59	0.84
13:M4:14:VAL:HG13	13:M4:127:TYR:CD1	2.11	0.84
22:A4:214:GLU:OE1	33:R4:84:TYR:CD1	2.30	0.84
8:f5:93:HIS:CE1	21:i5:1305:C:OP1	2.30	0.84
13:M5:111:VAL:HG11	13:M5:114:TYR:HE1	1.42	0.84
31:P5:121:ILE:HD13	34:S5:120:HIS:NE2	1.93	0.84
34:S6:50:ILE:HD12	34:S6:67:VAL:CG2	2.06	0.84
37:l2:128:VAL:CG1	37:l2:166:ILE:O	2.25	0.84
37:l4:178:ILE:HD13	37:l4:190:ILE:HG23	1.57	0.84
37:l5:128:VAL:CG1	37:l5:166:ILE:O	2.25	0.84
10:C1:266:TYR:O	22:A1:120:ARG:NH2	2.11	0.84
21:i1:1842:C:P	35:j1:4:LYS:HB2	2.18	0.84
31:P1:34:MET:O	31:P1:42:ARG:CG	2.24	0.84
21:i2:1757:G:C5	21:i2:1776:G:O6	2.29	0.84
8:f3:93:HIS:CE1	21:i3:1305:C:OP1	2.31	0.84
10:C3:68:ARG:NH1	10:C3:277:HIS:CA	2.40	0.84
11:G3:216:ARG:HA	11:G3:219:GLU:HG2	1.59	0.84
21:i3:11:A:N3	21:i3:1357:A:O2'	2.10	0.84
21:i4:628:A:N7	24:D4:145:GLN:NE2	2.25	0.84
21:i4:1700:C:N3	21:i4:1834:A:N6	2.24	0.84
11:G5:147:LEU:HD22	11:G5:148:SER:H	1.41	0.84
22:A5:214:GLU:OE1	33:R5:84:TYR:CD1	2.30	0.84
17:Y6:16:ARG:HD2	25:E6:95:THR:HG22	1.58	0.84
36:k2:83:ARG:HG3	36:k2:175:TRP:CZ3	2.11	0.84
36:k6:2:PHE:HB2	36:k6:168:HIS:ND1	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:92:LEU:CD2	36:k6:131:ILE:O	2.25	0.84
37:l1:128:VAL:CG1	37:l1:166:ILE:O	2.25	0.84
37:l1:142:LYS:HG2	37:l1:146:ARG:HE	1.43	0.84
37:l5:180:GLU:CG	37:l5:181:LYS:HB3	2.07	0.84
17:Y1:113:ARG:NH1	8:f2:111:ASN:CA	2.37	0.84
22:A1:211:GLU:CG	33:R1:81:ARG:HH21	1.90	0.84
22:A1:211:GLU:CB	33:R1:81:ARG:NH2	2.40	0.84
8:f2:93:HIS:CE1	21:i2:1305:C:OP1	2.31	0.84
10:C2:74:LYS:HE2	10:C2:272:HIS:CD2	2.10	0.84
14:N2:148:ALA:N	14:N2:149:LEU:HB3	1.91	0.84
31:P2:107:ILE:HA	31:P2:111:MET:SD	2.17	0.84
31:P3:107:ILE:HA	31:P3:111:MET:SD	2.17	0.84
23:B4:21:VAL:CG2	30:L5:31:GLU:CB	2.51	0.84
8:f6:93:HIS:CE1	21:i6:1305:C:OP1	2.30	0.84
9:g6:18:VAL:HA	9:g6:35:SER:HA	1.58	0.84
2:U1:19:ARG:HD3	2:U1:119:ALA:C	1.80	0.84
8:f1:99:LYS:HG3	21:i1:1285:G:H21	0.82	0.84
9:g1:18:VAL:HA	9:g1:35:SER:HA	1.59	0.84
30:L1:55:TYR:OH	30:L1:116:CYS:SG	2.35	0.84
11:G2:139:SER:C	11:G2:142:ARG:HG3	2.02	0.84
18:Z2:70:PRO:HG3	18:Z2:88:LEU:CG	2.07	0.84
30:L2:55:TYR:OH	30:L2:116:CYS:SG	2.35	0.84
30:L3:55:TYR:OH	30:L3:116:CYS:SG	2.35	0.84
31:P3:15:PHE:HZ	31:P3:17:TYR:HD2	1.22	0.84
31:P3:121:ILE:HD13	34:S3:120:HIS:NE2	1.93	0.84
21:i4:1757:G:C5	21:i4:1776:G:O6	2.30	0.84
33:R4:58:MET:HA	33:R4:61:ILE:HD11	1.60	0.84
8:f5:105:TYR:HH	8:f5:131:PHE:CB	1.86	0.84
36:k2:16:GLN:NE2	36:k2:49:PRO:HB3	1.93	0.84
36:k2:88:TYR:O	36:k2:91:ILE:HG12	1.77	0.84
37:l5:180:GLU:HG2	37:l5:181:LYS:CD	2.07	0.84
37:l6:142:LYS:HG2	37:l6:146:ARG:HE	1.43	0.84
4:X1:61:GLN:CD	21:i1:1824:A:H8	1.86	0.84
21:i1:969:U:P	21:i1:971:G:C5'	2.66	0.84
9:g2:18:VAL:HA	9:g2:35:SER:HA	1.58	0.84
14:N2:141:TYR:CE1	14:N2:146:ALA:CB	2.61	0.84
28:I2:92:ARG:HG3	36:k5:9:GLU:OE2	1.77	0.84
24:D3:64:ARG:NE	29:K3:95:ARG:HH21	1.75	0.84
11:G4:189:ARG:CD	21:i4:330:G:N7	2.41	0.84
24:D4:64:ARG:NE	29:K4:95:ARG:HH21	1.74	0.84
35:j4:8:LYS:HD3	35:j4:12:ARG:NH2	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f5:105:TYR:CE1	8:f5:131:PHE:CE2	2.66	0.84
14:N5:141:TYR:CE1	14:N5:146:ALA:CB	2.61	0.84
18:Z5:50:PHE:O	34:S5:5:ILE:HG23	1.75	0.84
21:i5:1689:C:C3'	21:i5:1690:U:P	2.66	0.84
14:N6:133:ARG:HD2	30:L6:152:LYS:CG	1.89	0.84
14:N6:141:TYR:CE1	14:N6:146:ALA:CB	2.61	0.84
36:k5:16:GLN:NE2	36:k5:49:PRO:HB3	1.93	0.84
37:l1:180:GLU:HG2	37:l1:181:LYS:CD	2.07	0.84
37:l2:128:VAL:HG13	37:l2:166:ILE:O	1.78	0.84
31:P1:119:PHE:CD1	34:S1:119:ALA:CB	2.58	0.84
21:i2:1763:G:H5'	34:S5:109:GLU:CD	2.01	0.84
14:N3:141:TYR:CE1	14:N3:146:ALA:CB	2.61	0.84
8:f5:105:TYR:HH	8:f5:131:PHE:HB3	1.04	0.84
31:P5:96:VAL:HG22	31:P5:116:LEU:CD1	1.80	0.84
21:i6:1300:U:C2	31:P6:51:ARG:NH1	2.38	0.84
21:i6:1689:C:C3'	21:i6:1690:U:P	2.65	0.84
31:P6:121:ILE:HD13	34:S6:120:HIS:NE2	1.93	0.84
36:k1:16:GLN:NE2	36:k1:49:PRO:HB3	1.93	0.84
37:l6:178:ILE:HD13	37:l6:190:ILE:HG23	1.57	0.84
18:Z1:49:LEU:HD11	34:S1:5:ILE:HG23	1.60	0.84
21:i1:556:U:O4	21:i1:588:G:N3	2.11	0.84
21:i1:962:A:O2'	28:I3:125:LYS:NZ	2.08	0.84
14:N2:137:PRO:HG3	30:L2:154:GLN:CB	2.08	0.84
28:I2:124:LYS:O	28:I2:125:LYS:HG2	1.76	0.84
21:i3:187:G:N2	21:i3:213:G:C4	2.45	0.84
22:A3:214:GLU:OE1	33:R3:84:TYR:CD1	2.30	0.84
18:Z4:70:PRO:HG3	18:Z4:88:LEU:CG	2.07	0.84
21:i5:1240:A:N1	31:P5:100:LYS:HA	1.92	0.84
21:i6:1058:A:H2	37:l6:126:LYS:HE2	1.43	0.84
36:k3:88:TYR:O	36:k3:91:ILE:CG1	2.26	0.84
37:l5:178:ILE:CB	37:l5:190:ILE:HD13	2.07	0.84
37:l6:180:GLU:HG2	37:l6:181:LYS:CD	2.07	0.84
37:l6:180:GLU:CG	37:l6:181:LYS:HB3	2.07	0.84
8:f1:93:HIS:CE1	21:i1:1305:C:OP1	2.31	0.83
14:N1:137:PRO:CG	30:L1:154:GLN:CB	2.55	0.83
21:i1:696:G:N2	21:i1:734:C:O5'	2.09	0.83
16:W2:52:ILE:HG23	27:H2:144:ILE:HG23	1.57	0.83
22:A3:211:GLU:CB	33:R3:81:ARG:NH2	2.40	0.83
16:W4:111:MET:HE2	16:W4:119:LYS:HZ2	1.42	0.83
22:A4:211:GLU:CB	33:R4:81:ARG:NH2	2.40	0.83
2:U5:19:ARG:CD	2:U5:119:ALA:HB1	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:143:LYS:HD2	21:i5:1778:C:H5''	1.54	0.83
11:G5:216:ARG:HA	11:G5:219:GLU:HG2	1.59	0.83
21:i5:12:U:H1'	21:i5:1357:A:C1'	2.08	0.83
21:i5:695:C:N4	21:i5:736:C:O2	2.11	0.83
26:F6:137:GLN:CG	26:F6:204:ARG:H	1.90	0.83
36:k4:33:PHE:CD1	36:k4:92:LEU:HD11	2.07	0.83
37:l1:115:VAL:O	37:l1:116:THR:OG1	1.94	0.83
37:l3:142:LYS:HG2	37:l3:146:ARG:HE	1.43	0.83
37:l5:128:VAL:HG13	37:l5:166:ILE:O	1.78	0.83
8:f1:105:TYR:CE1	8:f1:131:PHE:CE2	2.66	0.83
21:i1:186:C:HO2'	21:i1:187:G:C4'	1.90	0.83
21:i1:528:A:C2	21:i1:558:G:N2	2.45	0.83
31:P1:107:ILE:HA	31:P1:111:MET:SD	2.16	0.83
11:G2:141:ILE:CB	11:G2:144:LEU:CD2	2.44	0.83
11:G2:216:ARG:HA	11:G2:219:GLU:HG2	1.59	0.83
24:D2:64:ARG:NE	29:K2:95:ARG:HH21	1.75	0.83
15:O3:63:LYS:HZ3	28:I6:163:GLU:HB3	1.37	0.83
33:R3:57:LEU:CD1	33:R3:66:VAL:HG11	2.08	0.83
34:S3:108:ARG:NH2	21:i6:1773:C:H5'	1.93	0.83
35:j3:8:LYS:HD3	35:j3:12:ARG:NH2	1.93	0.83
8:f4:105:TYR:CE1	8:f4:131:PHE:CE2	2.66	0.83
10:C4:270:THR:HG21	22:A4:69:GLU:CG	2.08	0.83
31:P4:121:ILE:HD13	34:S4:120:HIS:NE2	1.93	0.83
18:Z5:82:SER:CA	21:i5:1598:G:C8	2.61	0.83
21:i5:12:U:H1'	21:i5:1357:A:H1'	1.58	0.83
21:i5:1069:U:P	36:k5:18:LYS:NZ	2.51	0.83
31:P5:121:ILE:CD1	31:P5:123:TYR:HE2	1.54	0.83
33:R5:57:LEU:O	33:R5:61:ILE:HG12	1.78	0.83
18:Z1:82:SER:CA	21:i1:1598:G:C8	2.61	0.83
18:Z2:49:LEU:HD11	34:S2:5:ILE:HG23	1.59	0.83
9:g3:18:VAL:HA	9:g3:35:SER:HA	1.59	0.83
18:Z3:49:LEU:HD11	34:S3:5:ILE:HG23	1.59	0.83
34:S4:50:ILE:HD12	34:S4:67:VAL:CG2	2.06	0.83
18:Z5:49:LEU:HD11	34:S5:5:ILE:HG23	1.60	0.83
31:P5:121:ILE:CD1	31:P5:123:TYR:CZ	2.59	0.83
21:i6:1848:U:C5'	37:l6:146:ARG:NH1	2.26	0.83
26:F6:137:GLN:HA	26:F6:203:ASN:CB	2.08	0.83
36:k1:146:GLY:HA2	36:k1:167:ILE:CG1	2.07	0.83
36:k4:16:GLN:NE2	36:k4:49:PRO:HB3	1.93	0.83
37:l3:128:VAL:CG1	37:l3:166:ILE:O	2.25	0.83
37:l3:178:ILE:CB	37:l3:190:ILE:HD13	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l4:128:VAL:CG1	37:l4:166:ILE:O	2.25	0.83
37:l4:180:GLU:HG2	37:l4:181:LYS:CD	2.07	0.83
10:C1:68:ARG:NH1	10:C1:277:HIS:HB2	1.94	0.83
10:C2:68:ARG:NH1	10:C2:277:HIS:CA	2.40	0.83
37:l1:178:ILE:HD13	37:l1:190:ILE:HG23	1.57	0.83
21:i1:1766:C:OP2	31:P6:12:PHE:CE2	2.32	0.83
10:C2:270:THR:HG21	22:A2:69:GLU:CG	2.08	0.83
10:C3:68:ARG:NH1	10:C3:277:HIS:HB2	1.94	0.83
10:C4:266:TYR:O	22:A4:120:ARG:NH2	2.11	0.83
11:G4:154:ARG:HG3	21:i4:77:A:C4	2.13	0.83
13:M4:111:VAL:HG11	13:M4:114:TYR:HE1	1.42	0.83
20:e4:45:VAL:HG21	21:i4:535:G:H5'	1.61	0.83
20:e4:45:VAL:CG2	21:i4:535:G:H4'	2.07	0.83
21:i4:1842:C:H3'	35:j4:4:LYS:HZ1	1.42	0.83
31:P4:119:PHE:CD1	34:S4:119:ALA:CB	2.58	0.83
35:j5:8:LYS:HD3	35:j5:12:ARG:NH2	1.93	0.83
21:i6:191:A:OP1	28:I6:145:ILE:HD11	1.78	0.83
21:i6:1378:A:OP2	22:A6:132:GLN:NE2	2.12	0.83
21:i6:1689:C:H3'	21:i6:1690:U:P	2.18	0.83
36:k1:170:LEU:HD23	36:k1:171:ASN:N	1.94	0.83
36:k3:16:GLN:NE2	36:k3:49:PRO:HB3	1.93	0.83
37:l3:180:GLU:CG	37:l3:181:LYS:HB3	2.07	0.83
37:l6:128:VAL:HG13	37:l6:166:ILE:O	1.78	0.83
24:D1:64:ARG:NE	29:K1:95:ARG:HH21	1.75	0.83
2:U2:17:ILE:CG2	2:U2:94:PRO:CA	2.50	0.83
21:i2:315:C:N3	21:i2:336:A:H2	1.77	0.83
21:i2:1689:C:H3'	21:i2:1690:U:P	2.19	0.83
22:A2:211:GLU:CB	33:R2:81:ARG:NH2	2.40	0.83
35:j2:8:LYS:HD3	35:j2:12:ARG:NH2	1.93	0.83
21:i3:130:G:O5'	21:i3:214:U:O4	1.96	0.83
21:i3:1775:U:H2'	21:i3:1776:G:O5'	1.79	0.83
21:i4:628:A:H62	24:D4:145:GLN:CG	1.91	0.83
10:C5:270:THR:HG21	22:A5:69:GLU:HB2	0.86	0.83
10:C5:270:THR:HG21	22:A5:69:GLU:CG	2.08	0.83
11:G6:216:ARG:HA	11:G6:219:GLU:HG2	1.59	0.83
36:k2:94:HIS:C	36:k2:133:ALA:O	2.22	0.83
37:l2:182:TRP:CB	37:l2:183:PRO:HA	2.07	0.83
37:l5:142:LYS:HG2	37:l5:146:ARG:HE	1.43	0.83
21:i1:1621:U:O4	31:P1:82:ASP:OD2	1.96	0.83
21:i2:368:U:N3	36:k5:109:ALA:HB1	1.93	0.83
22:A2:206:ASP:O	22:A2:210:ILE:HG12	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q3:4:LYS:HZ1	32:Q3:99:TYR:C	1.86	0.83
8:f4:95:ARG:HE	21:i4:1289:U:H5'	0.82	0.83
21:i4:1621:U:O4	31:P4:82:ASP:OD2	1.97	0.83
31:P4:15:PHE:CE2	31:P4:112:ILE:CD1	2.62	0.83
2:U6:19:ARG:CD	2:U6:119:ALA:HB1	2.07	0.83
33:R6:57:LEU:O	33:R6:61:ILE:HG23	1.78	0.83
36:k1:145:VAL:C	36:k1:167:ILE:HB	2.04	0.83
36:k1:168:HIS:NE2	36:k1:174:LEU:CB	2.41	0.83
36:k2:170:LEU:HD11	36:k2:175:TRP:CZ2	2.13	0.83
36:k4:83:ARG:CZ	36:k4:175:TRP:CE3	2.60	0.83
14:N1:133:ARG:NH1	30:L1:152:LYS:O	2.12	0.83
21:i1:1240:A:N1	31:P1:100:LYS:HA	1.92	0.83
21:i1:1775:U:H2'	21:i1:1776:G:O5'	1.79	0.83
22:A1:209:GLU:HB2	22:A1:213:GLU:CD	2.04	0.83
4:X2:55:VAL:HB	20:e2:2:VAL:HG12	0.83	0.83
10:C2:68:ARG:NH1	10:C2:277:HIS:HB2	1.94	0.83
14:N2:133:ARG:HD2	30:L2:152:LYS:CB	2.08	0.83
21:i2:1694:U:HO2'	21:i2:1833:C:HO2'	1.26	0.83
10:C3:266:TYR:O	22:A3:120:ARG:NH2	2.11	0.83
14:N3:133:ARG:HD3	30:L3:152:LYS:HB3	1.60	0.83
11:G4:147:LEU:HD22	11:G4:148:SER:H	1.41	0.83
16:W4:26:LEU:HD11	16:W4:60:LYS:HB3	1.60	0.83
10:C5:64:THR:C	10:C5:277:HIS:HE1	1.85	0.83
10:C6:270:THR:HG21	22:A6:69:GLU:HB2	0.86	0.83
22:A6:209:GLU:HB2	22:A6:213:GLU:CD	2.04	0.83
36:k5:85:LEU:HD22	36:k5:145:VAL:HG22	1.60	0.83
37:l2:180:GLU:CG	37:l2:181:LYS:HB3	2.07	0.83
15:O1:66:ARG:NH2	28:I3:125:LYS:CG	2.42	0.83
18:Z1:82:SER:HA	21:i1:1598:G:H8	1.44	0.83
10:C2:145:LYS:HD2	21:i2:1348:G:H5'	1.60	0.83
21:i2:1183:A:H5'	35:j2:11:ARG:CZ	2.08	0.83
21:i2:1849:G:O6	37:l2:149:ALA:HB1	1.78	0.83
26:F3:137:GLN:HB3	26:F3:204:ARG:OXT	1.79	0.83
21:i4:1843:G:OP2	35:j4:4:LYS:CD	2.27	0.83
22:A4:206:ASP:O	22:A4:210:ILE:HG12	1.79	0.83
20:e5:45:VAL:HG11	21:i5:535:G:O3'	1.78	0.83
8:f6:105:TYR:CE1	8:f6:131:PHE:CE2	2.66	0.83
10:C6:68:ARG:NH1	10:C6:277:HIS:CA	2.40	0.83
10:C6:266:TYR:O	22:A6:120:ARG:NH2	2.11	0.83
18:Z6:82:SER:CA	21:i6:1598:G:C8	2.61	0.83
21:i6:211:G:C6	21:i6:212:C:N3	2.47	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1240:A:H2	31:P6:100:LYS:HA	1.33	0.83
31:P6:15:PHE:CE2	31:P6:112:ILE:CD1	2.62	0.83
36:k5:95:GLN:HG3	36:k5:164:ILE:HD12	1.60	0.83
36:k6:16:GLN:NE2	36:k6:49:PRO:HB3	1.93	0.83
8:f1:95:ARG:HE	21:i1:1289:U:H5''	0.82	0.83
11:G1:142:ARG:HD2	11:G1:147:LEU:HD12	1.56	0.83
14:N1:141:TYR:CE1	14:N1:146:ALA:CB	2.61	0.83
21:i2:1775:U:H2'	21:i2:1776:G:O5'	1.79	0.83
10:C4:68:ARG:NH1	10:C4:277:HIS:HB2	1.94	0.83
14:N4:148:ALA:N	14:N4:149:LEU:HB3	1.91	0.83
21:i4:1775:U:H2'	21:i4:1776:G:O5'	1.79	0.83
22:A4:209:GLU:HB2	22:A4:213:GLU:CD	2.04	0.83
8:f5:87:THR:CB	8:f5:90:LYS:HE2	2.09	0.83
32:Q5:4:LYS:HZ1	32:Q5:99:TYR:C	1.86	0.83
8:f6:87:THR:CB	8:f6:90:LYS:HE2	2.09	0.83
31:P6:41:GLN:OE1	31:P6:84:ILE:HD13	1.78	0.83
36:k3:39:TRP:NE1	36:k3:90:PHE:CZ	2.47	0.83
37:l1:150:GLN:C	37:l1:151:LYS:HG2	2.04	0.83
21:i1:12:U:C1'	21:i1:1357:A:O4'	2.26	0.82
21:i1:1763:G:C4'	34:S6:116:LYS:HD2	2.09	0.82
31:P1:121:ILE:HD13	34:S1:120:HIS:NE2	1.93	0.82
10:C2:266:TYR:O	22:A2:120:ARG:NH2	2.11	0.82
16:W2:26:LEU:HD11	16:W2:60:LYS:HB3	1.60	0.82
34:S2:108:ARG:HH12	21:i4:1773:C:C3'	1.90	0.82
10:C3:270:THR:HG21	22:A3:69:GLU:CG	2.08	0.82
21:i3:696:G:H22	21:i3:734:C:C4'	1.90	0.82
8:f4:87:THR:CB	8:f4:90:LYS:HE2	2.09	0.82
14:N4:141:TYR:CE1	14:N4:146:ALA:CB	2.61	0.82
10:C6:64:THR:C	10:C6:277:HIS:HE1	1.85	0.82
10:C6:142:LYS:HG3	10:C6:157:LEU:HD13	1.59	0.82
37:l2:142:LYS:HG2	37:l2:146:ARG:HE	1.43	0.82
37:l4:150:GLN:C	37:l4:151:LYS:HG2	2.04	0.82
10:C1:270:THR:HG21	22:A1:69:GLU:CG	2.08	0.82
20:e1:39:ASN:HB3	21:i1:551:U:H4'	1.61	0.82
21:i1:969:U:P	21:i1:971:G:H5'	2.18	0.82
21:i2:1780:G:C5	21:i2:1781:A:H8	1.97	0.82
15:O3:30:VAL:HG12	15:O3:94:HIS:HB2	1.60	0.82
16:W3:26:LEU:HD11	16:W3:60:LYS:HB3	1.60	0.82
21:i3:1621:U:O4	31:P3:82:ASP:OD2	1.97	0.82
11:G5:154:ARG:HG3	21:i5:77:A:C4	2.13	0.82
22:A6:211:GLU:CB	33:R6:81:ARG:NH2	2.40	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F6:137:GLN:HG3	26:F6:204:ARG:H	1.43	0.82
36:k1:82:LEU:HD12	36:k1:169:TYR:C	2.04	0.82
37:l2:150:GLN:C	37:l2:151:LYS:HG2	2.04	0.82
37:l2:180:GLU:HG2	37:l2:181:LYS:CG	2.09	0.82
10:C1:64:THR:C	10:C1:277:HIS:HE1	1.85	0.82
31:P1:15:PHE:CE2	31:P1:112:ILE:CD1	2.62	0.82
31:P1:133:ILE:HG22	31:P1:134:GLY:H	1.44	0.82
26:F2:191:LYS:HE2	28:I4:141:ARG:HD2	1.61	0.82
31:P2:15:PHE:CE2	31:P2:112:ILE:CD1	2.62	0.82
10:C3:64:THR:C	10:C3:277:HIS:HE1	1.85	0.82
22:A3:206:ASP:O	22:A3:210:ILE:HG12	1.79	0.82
21:i4:1172:U:C4'	35:j4:10:MET:CE	2.56	0.82
11:G5:5:ILE:HG12	11:G5:111:LEU:HB3	1.61	0.82
22:A5:206:ASP:O	22:A5:210:ILE:HG12	1.79	0.82
22:A5:209:GLU:HB2	22:A5:213:GLU:CD	2.04	0.82
11:G6:149:LYS:HB2	11:G6:149:LYS:NZ	1.94	0.82
15:O6:17:LEU:HD23	15:O6:18:GLY:H	1.45	0.82
16:W6:26:LEU:HD11	16:W6:60:LYS:HB3	1.60	0.82
30:L6:55:TYR:OH	30:L6:116:CYS:SG	2.35	0.82
36:k3:33:PHE:HE1	36:k3:92:LEU:HD11	1.42	0.82
8:f1:87:THR:CB	8:f1:90:LYS:HE2	2.09	0.82
13:M1:111:VAL:HG11	13:M1:114:TYR:HE1	1.42	0.82
14:N1:133:ARG:CD	30:L1:152:LYS:CB	2.56	0.82
31:P1:34:MET:O	31:P1:42:ARG:HG3	1.79	0.82
18:Z2:82:SER:HA	21:i2:1598:G:H2'	1.60	0.82
31:P3:41:GLN:OE1	31:P3:84:ILE:HD13	1.79	0.82
13:M4:28:HIS:CE1	13:M4:116:LYS:CE	2.62	0.82
32:Q4:4:LYS:HZ1	32:Q4:99:TYR:C	1.86	0.82
13:M5:28:HIS:CE1	13:M5:116:LYS:CE	2.62	0.82
13:M5:40:LYS:HZ3	21:i5:1310:U:C5'	1.76	0.82
21:i6:1775:U:H2'	21:i6:1776:G:O5'	1.79	0.82
37:l3:180:GLU:HG2	37:l3:181:LYS:CG	2.09	0.82
37:l5:182:TRP:CB	37:l5:183:PRO:HA	2.07	0.82
11:G1:147:LEU:HD22	11:G1:148:SER:H	1.41	0.82
16:W1:26:LEU:HD11	16:W1:60:LYS:HB3	1.60	0.82
21:i1:1172:U:H5'	35:j1:14:LYS:CE	2.09	0.82
28:I1:163:GLU:HG2	15:O6:63:LYS:HE3	1.61	0.82
35:j1:8:LYS:HD3	35:j1:12:ARG:NH2	1.93	0.82
12:J2:125:HIS:HB2	21:i2:526:A:HO2'	1.36	0.82
21:i2:1621:U:O4	31:P2:82:ASP:OD2	1.97	0.82
23:B2:21:VAL:HG23	30:L4:31:GLU:C	2.04	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F2:137:GLN:HG2	26:F2:204:ARG:C	2.05	0.82
31:P2:121:ILE:HD13	34:S2:120:HIS:NE2	1.93	0.82
10:C5:68:ARG:NH1	10:C5:277:HIS:CA	2.39	0.82
36:k1:83:ARG:NH2	36:k1:175:TRP:NE1	2.26	0.82
37:l3:128:VAL:HG13	37:l3:166:ILE:O	1.78	0.82
11:G1:5:ILE:HG12	11:G1:111:LEU:HB3	1.61	0.82
15:O1:30:VAL:HG12	15:O1:94:HIS:HB2	1.60	0.82
21:i1:331:C:H2'	21:i1:332:G:C8	2.14	0.82
21:i1:1069:U:P	36:k1:18:LYS:NZ	2.52	0.82
21:i2:12:U:H1'	21:i2:1357:A:H1'	1.59	0.82
13:M3:28:HIS:CE1	13:M3:116:LYS:CE	2.62	0.82
31:P3:41:GLN:CB	31:P3:84:ILE:HD13	2.08	0.82
11:G4:5:ILE:HG12	11:G4:111:LEU:HB3	1.61	0.82
21:i4:1717:C:O2'	35:j4:21:ARG:CG	2.27	0.82
23:B4:21:VAL:N	30:L5:31:GLU:CD	2.38	0.82
21:i6:316:G:N1	21:i6:335:G:C6	2.47	0.82
21:i6:1376:A:O5'	22:A6:102:ARG:HD2	1.79	0.82
37:l1:179:GLN:CG	37:l1:180:GLU:H	1.89	0.82
37:l4:128:VAL:HG13	37:l4:166:ILE:O	1.78	0.82
37:l5:180:GLU:HG2	37:l5:181:LYS:CG	2.09	0.82
11:G1:154:ARG:HG3	21:i1:77:A:C4	2.14	0.82
14:N1:148:ALA:N	14:N1:149:LEU:HB3	1.92	0.82
15:O1:17:LEU:HD23	15:O1:18:GLY:H	1.45	0.82
21:i1:1172:U:H4'	35:j1:10:MET:HE3	0.82	0.82
8:f2:96:LYS:HD3	21:i2:1307:U:C5	2.15	0.82
22:A3:211:GLU:CG	33:R3:81:ARG:HH21	1.90	0.82
28:I3:130:THR:HA	28:I3:134:GLU:HB2	1.61	0.82
20:e4:45:VAL:CG1	21:i4:534:G:HO2'	1.89	0.82
28:I4:130:THR:HA	28:I4:134:GLU:HB2	1.61	0.82
10:C5:266:TYR:O	22:A5:120:ARG:NH2	2.11	0.82
18:Z5:82:SER:CA	21:i5:1598:G:C2'	2.54	0.82
22:A6:206:ASP:O	22:A6:210:ILE:HG12	1.79	0.82
35:j6:8:LYS:HD3	35:j6:12:ARG:NH2	1.93	0.82
37:l4:142:LYS:HG2	37:l4:146:ARG:HE	1.43	0.82
18:Z1:82:SER:HB3	21:i1:1598:G:H2'	1.61	0.82
26:F1:127:ARG:HB3	26:F1:128:ILE:HA	1.62	0.82
14:N2:133:ARG:CD	30:L2:152:LYS:CG	2.58	0.82
17:Y2:109:GLU:HG2	17:Y2:113:ARG:NE	1.95	0.82
11:G3:154:ARG:HG3	21:i3:77:A:C4	2.14	0.82
8:f4:96:LYS:HD3	21:i4:1307:U:C5	2.15	0.82
21:i5:1828:C:C4'	37:l5:155:GLY:H	1.91	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P5:121:ILE:HG12	31:P5:123:TYR:CE1	2.15	0.82
10:C6:270:THR:HG21	22:A6:69:GLU:CG	2.08	0.82
22:A6:209:GLU:O	22:A6:213:GLU:N	2.13	0.82
8:f1:95:ARG:CD	21:i1:1289:U:P	2.67	0.82
21:i1:1843:G:OP2	35:j1:4:LYS:CD	2.28	0.82
2:U2:19:ARG:CB	2:U2:118:ASP:O	2.26	0.82
14:N2:137:PRO:HG3	30:L2:154:GLN:HB2	1.60	0.82
21:i2:1380:C:O2'	22:A2:112:ILE:O	1.98	0.82
10:C3:270:THR:HG21	22:A3:69:GLU:HB2	0.86	0.82
18:Z3:82:SER:HB3	21:i3:1598:G:H2'	1.61	0.82
30:L3:55:TYR:HH	30:L3:116:CYS:HG	1.23	0.82
31:P3:119:PHE:CD1	34:S3:119:ALA:CB	2.58	0.82
8:f4:95:ARG:CD	21:i4:1289:U:P	2.67	0.82
22:A4:209:GLU:O	22:A4:213:GLU:N	2.13	0.82
33:R5:73:LEU:O	33:R5:75:GLU:N	2.12	0.82
2:U6:66:ARG:H	7:d6:40:ARG:HH22	1.28	0.82
18:Z6:82:SER:HA	21:i6:1598:G:H2'	1.60	0.82
36:k6:68:LEU:CD1	36:k6:174:LEU:HD11	2.09	0.82
37:l2:179:GLN:CG	37:l2:180:GLU:H	1.89	0.82
22:A1:209:GLU:O	22:A1:213:GLU:N	2.13	0.82
28:I1:206:LYS:C	36:k6:12:SER:OG	2.22	0.82
30:L1:124:ASP:HB2	30:L1:147:LYS:HB3	0.88	0.82
2:U2:19:ARG:CD	2:U2:119:ALA:HB1	2.08	0.82
8:f3:105:TYR:CE1	8:f3:131:PHE:CE2	2.66	0.82
22:A3:209:GLU:HB2	22:A3:213:GLU:CD	2.04	0.82
26:F3:137:GLN:HG2	26:F3:204:ARG:C	2.05	0.82
16:W4:115:GLU:CD	16:W4:119:LYS:HE3	2.05	0.82
21:i4:212:C:H2'	21:i4:213:G:H8	1.45	0.82
23:B4:21:VAL:N	30:L5:31:GLU:H	1.77	0.82
30:L4:55:TYR:OH	30:L4:116:CYS:SG	2.35	0.82
21:i5:1717:C:O2	35:j5:20:MET:HE2	1.80	0.82
31:P5:45:LEU:HD12	31:P5:49:LEU:HD21	1.59	0.82
11:G6:154:ARG:HG3	21:i6:77:A:C4	2.14	0.82
13:M6:91:LEU:HD13	21:i6:1284:A:H62	1.45	0.82
33:R6:21:TYR:CE2	33:R6:72:LYS:HE2	2.15	0.82
36:k2:170:LEU:CD2	36:k2:171:ASN:CG	2.52	0.82
37:l1:128:VAL:HG13	37:l1:166:ILE:O	1.78	0.82
22:A1:206:ASP:O	22:A1:210:ILE:HG12	1.79	0.81
28:I1:124:LYS:CA	15:O6:66:ARG:HH22	1.93	0.81
8:f2:105:TYR:CE1	8:f2:131:PHE:CE2	2.66	0.81
10:C2:182:CYS:SG	10:C2:183:LYS:N	2.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1772:C:H4'	34:S5:112:GLU:CD	2.04	0.81
22:A2:209:GLU:O	22:A2:213:GLU:N	2.13	0.81
34:S2:108:ARG:NH2	21:i4:1773:C:C4'	2.42	0.81
8:f3:80:ARG:CD	21:i3:1509:U:C4	2.54	0.81
8:f3:96:LYS:HD3	21:i3:1307:U:C5	2.15	0.81
20:e4:25:LYS:HD3	21:i4:554:A:OP1	1.78	0.81
21:i4:1827:U:HO2'	37:l4:154:CYS:HG	1.15	0.81
11:G5:141:ILE:CB	11:G5:144:LEU:CD2	2.44	0.81
22:A6:211:GLU:CG	33:R6:81:ARG:HH21	1.90	0.81
36:k1:88:TYR:O	36:k1:91:ILE:CG1	2.27	0.81
36:k3:143:LEU:O	36:k3:169:TYR:CA	2.27	0.81
11:G2:154:ARG:HG3	21:i2:77:A:C4	2.14	0.81
14:N2:137:PRO:HG2	30:L2:154:GLN:CB	1.96	0.81
22:A2:211:GLU:CG	33:R2:81:ARG:HH21	1.90	0.81
34:S2:6:PRO:HG3	34:S2:58:GLU:CG	2.10	0.81
8:f3:87:THR:CB	8:f3:90:LYS:HE2	2.09	0.81
15:O4:17:LEU:HD23	15:O4:18:GLY:H	1.45	0.81
34:S4:105:ASN:ND2	21:i5:1761:U:P	2.53	0.81
11:G5:190:ARG:CZ	21:i5:332:G:N7	2.43	0.81
18:Z5:82:SER:HA	21:i5:1598:G:H8	1.44	0.81
33:R6:58:MET:HG3	33:R6:61:ILE:HD11	1.59	0.81
36:k2:79:TYR:CD1	36:k2:131:ILE:HD13	2.15	0.81
36:k3:92:LEU:HD23	36:k3:93:PRO:HD2	1.60	0.81
36:k6:36:ILE:CA	36:k6:91:ILE:CG2	2.57	0.81
37:l3:150:GLN:C	37:l3:151:LYS:HG2	2.04	0.81
32:Q1:4:LYS:HZ1	32:Q1:99:TYR:C	1.87	0.81
10:C2:64:THR:C	10:C2:277:HIS:HE1	1.85	0.81
14:N2:148:ALA:CB	14:N2:149:LEU:HA	2.08	0.81
15:O2:30:VAL:HG12	15:O2:94:HIS:HB2	1.61	0.81
18:Z2:82:SER:HB3	21:i2:1598:G:H2'	1.61	0.81
2:U3:17:ILE:CG2	2:U3:94:PRO:CA	2.49	0.81
18:Z3:82:SER:HA	21:i3:1598:G:H2'	1.60	0.81
31:P3:108:LYS:HB3	31:P3:109:PRO:HD2	1.62	0.81
15:O4:30:VAL:HG12	15:O4:94:HIS:HB2	1.60	0.81
31:P4:121:ILE:HG12	31:P4:123:TYR:CE1	2.15	0.81
11:G5:149:LYS:HB2	11:G5:149:LYS:NZ	1.94	0.81
21:i5:1621:U:O4	31:P5:82:ASP:OD2	1.96	0.81
21:i5:1775:U:H2'	21:i5:1776:G:O5'	1.79	0.81
22:A5:211:GLU:CG	33:R5:81:ARG:HH21	1.90	0.81
24:D5:64:ARG:NE	29:K5:95:ARG:HH21	1.75	0.81
34:S5:6:PRO:HG3	34:S5:58:GLU:CG	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f6:80:ARG:NH2	21:i6:1503:C:C2'	2.43	0.81
21:i6:316:G:N1	21:i6:335:G:O6	2.14	0.81
26:F6:137:GLN:HG2	26:F6:204:ARG:C	2.04	0.81
36:k1:83:ARG:CZ	36:k1:175:TRP:CE2	2.64	0.81
37:l1:180:GLU:HG2	37:l1:181:LYS:CG	2.09	0.81
37:l6:150:GLN:C	37:l6:151:LYS:HG2	2.04	0.81
37:l6:180:GLU:HG2	37:l6:181:LYS:CG	2.09	0.81
13:M1:28:HIS:CE1	13:M1:116:LYS:CE	2.62	0.81
18:Z1:82:SER:CA	21:i1:1598:G:C2'	2.54	0.81
13:M2:28:HIS:CE1	13:M2:116:LYS:CE	2.62	0.81
8:f3:95:ARG:O	21:i3:1288:U:OP2	1.99	0.81
15:O3:17:LEU:HD23	15:O3:18:GLY:H	1.45	0.81
2:U4:19:ARG:CD	2:U4:119:ALA:HB1	2.08	0.81
22:A4:214:GLU:CD	33:R4:84:TYR:CD1	2.59	0.81
26:F4:127:ARG:HB3	26:F4:128:ILE:HA	1.62	0.81
30:L4:121:GLN:HB2	30:L4:153:LYS:CD	2.10	0.81
15:O5:17:LEU:HD23	15:O5:18:GLY:H	1.45	0.81
15:O5:30:VAL:HG12	15:O5:94:HIS:HB2	1.60	0.81
21:i5:1069:U:P	36:k5:18:LYS:CE	2.67	0.81
26:F5:127:ARG:HB3	26:F5:128:ILE:HA	1.62	0.81
26:F5:137:GLN:HB3	26:F5:204:ARG:OXT	1.79	0.81
10:C6:182:CYS:SG	10:C6:183:LYS:N	2.53	0.81
13:M6:28:HIS:CE1	13:M6:116:LYS:CE	2.62	0.81
37:l1:166:ILE:CG2	37:l1:170:PHE:CE1	2.64	0.81
18:Z1:82:SER:HA	21:i1:1598:G:H2'	1.60	0.81
19:b1:37:CYS:HB3	19:b1:63:LEU:HD21	1.62	0.81
20:e1:45:VAL:CB	21:i1:535:G:O3'	2.28	0.81
21:i1:12:U:O2	21:i1:1357:A:N3	2.12	0.81
21:i1:556:U:O4	21:i1:588:G:C2	2.33	0.81
21:i1:1069:U:P	36:k1:18:LYS:HZ1	2.04	0.81
21:i1:1172:U:C4'	35:j1:10:MET:HE2	2.11	0.81
8:f2:80:ARG:CZ	21:i2:1509:U:C4	2.64	0.81
8:f2:95:ARG:O	21:i2:1288:U:OP2	1.99	0.81
26:F3:127:ARG:HB3	26:F3:128:ILE:HA	1.62	0.81
19:b4:37:CYS:O	19:b4:77:CYS:SG	2.38	0.81
22:A4:211:GLU:CG	33:R4:81:ARG:HH21	1.90	0.81
21:i6:1621:U:O4	31:P6:82:ASP:OD2	1.96	0.81
36:k1:95:GLN:HG2	36:k1:164:ILE:CD1	2.08	0.81
37:l6:180:GLU:OE2	37:l6:181:LYS:HD2	1.80	0.81
2:U1:66:ARG:H	7:d1:40:ARG:HH22	1.27	0.81
26:F1:137:GLN:HG2	26:F1:204:ARG:C	2.05	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P1:121:ILE:CD1	31:P1:123:TYR:CZ	2.59	0.81
2:U3:19:ARG:CB	2:U3:118:ASP:O	2.26	0.81
10:C3:182:CYS:SG	10:C3:183:LYS:N	2.53	0.81
11:G3:149:LYS:HB2	11:G3:149:LYS:NZ	1.94	0.81
20:e3:25:LYS:HD2	21:i3:554:A:OP2	1.77	0.81
21:i3:187:G:N2	21:i3:213:G:N3	2.29	0.81
8:f4:95:ARG:O	21:i4:1288:U:OP2	1.99	0.81
18:Z4:82:SER:CA	21:i4:1598:G:C8	2.61	0.81
26:F4:137:GLN:HG2	26:F4:204:ARG:C	2.05	0.81
29:K4:32:HIS:H	29:K4:41:PRO:HA	1.46	0.81
34:S4:6:PRO:HG3	34:S4:58:GLU:CG	2.11	0.81
10:C5:68:ARG:NH1	10:C5:277:HIS:HB2	1.94	0.81
21:i5:1828:C:H4'	37:l5:154:CYS:CA	2.10	0.81
31:P5:15:PHE:CD1	31:P5:109:PRO:O	2.33	0.81
8:f6:95:ARG:O	21:i6:1288:U:OP2	1.99	0.81
15:O6:30:VAL:HG12	15:O6:94:HIS:HB2	1.61	0.81
37:l6:178:ILE:CB	37:l6:190:ILE:HD13	2.07	0.81
10:C1:68:ARG:NH1	10:C1:277:HIS:CA	2.39	0.81
21:i1:690:G:H5''	21:i1:690:G:N3	1.95	0.81
21:i1:1750:C:O2	21:i1:1784:G:O6	1.99	0.81
28:I1:130:THR:HA	28:I1:134:GLU:HB2	1.61	0.81
31:P1:108:LYS:HB3	31:P1:109:PRO:HD2	1.62	0.81
34:S1:6:PRO:HG3	34:S1:58:GLU:CG	2.10	0.81
26:F2:137:GLN:HB3	26:F2:204:ARG:OXT	1.79	0.81
22:A3:209:GLU:O	22:A3:213:GLU:N	2.13	0.81
22:A3:214:GLU:CD	33:R3:84:TYR:CD1	2.59	0.81
31:P4:108:LYS:HB3	31:P4:109:PRO:HD2	1.62	0.81
8:f5:95:ARG:CD	21:i5:1289:U:P	2.67	0.81
21:i5:13:C:O2'	21:i5:1355:C:N3	2.14	0.81
11:G6:5:ILE:HG12	11:G6:111:LEU:HB3	1.61	0.81
24:D6:64:ARG:NE	29:K6:95:ARG:HH21	1.75	0.81
36:k4:145:VAL:CG1	36:k4:167:ILE:HG13	1.88	0.81
37:l4:166:ILE:CG2	37:l4:170:PHE:CE1	2.64	0.81
37:l4:180:GLU:HG2	37:l4:181:LYS:CG	2.09	0.81
37:l5:150:GLN:C	37:l5:151:LYS:HG2	2.04	0.81
10:C1:279:ARG:C	10:C1:280:VAL:HG12	2.06	0.81
13:M1:91:LEU:HD13	21:i1:1284:A:H62	1.45	0.81
21:i1:1776:G:N3	21:i1:1776:G:H5''	1.96	0.81
23:B2:24:PRO:HD2	30:L4:27:GLU:HG3	1.60	0.81
2:U4:66:ARG:H	7:d4:40:ARG:HH22	1.28	0.81
8:f4:80:ARG:NH1	21:i4:1509:U:C4	2.49	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G4:149:LYS:HB2	11:G4:149:LYS:NZ	1.94	0.81
18:Z4:49:LEU:HD12	34:S4:5:ILE:HG23	1.63	0.81
18:Z5:82:SER:HB3	21:i5:1598:G:H2'	1.60	0.81
20:e5:46:VAL:H	20:e5:47:PRO:HD3	1.46	0.81
21:i5:1615:U:OP2	31:P5:43:ARG:NH1	2.13	0.81
22:A5:209:GLU:O	22:A5:213:GLU:N	2.13	0.81
36:k2:2:PHE:HB2	36:k2:168:HIS:CE1	2.16	0.81
36:k2:7:GLU:CB	36:k2:177:MET:CG	2.32	0.81
37:l4:178:ILE:HB	37:l4:190:ILE:HD12	1.63	0.81
37:l4:180:GLU:OE2	37:l4:181:LYS:HD2	1.80	0.81
18:Z1:50:PHE:O	34:S1:5:ILE:HG23	1.75	0.81
21:i1:186:C:O2'	21:i1:187:G:C4'	2.29	0.81
24:D1:64:ARG:HG3	29:K1:95:ARG:HH12	1.46	0.81
11:G2:94:ARG:NH2	21:i2:1737:G:OP1	2.14	0.81
18:Z2:82:SER:CA	21:i2:1598:G:C8	2.61	0.81
20:e2:31:ARG:NH1	21:i2:525:A:C3'	2.44	0.81
22:A2:209:GLU:HB2	22:A2:213:GLU:CD	2.04	0.81
28:I2:130:THR:HA	28:I2:134:GLU:HB2	1.61	0.81
2:U4:17:ILE:HG22	2:U4:95:SER:H	1.42	0.81
21:i4:1718:G:P	35:j4:21:ARG:HE	2.03	0.81
21:i5:1069:U:O5'	36:k5:18:LYS:NZ	2.13	0.81
31:P6:119:PHE:CD1	34:S6:119:ALA:CB	2.58	0.81
36:k2:144:CYS:CA	36:k2:168:HIS:O	2.28	0.81
36:k3:170:LEU:HD23	36:k3:171:ASN:N	1.95	0.81
37:l2:166:ILE:CG2	37:l2:170:PHE:CE1	2.64	0.81
8:f1:96:LYS:HD3	21:i1:1307:U:C5	2.15	0.81
18:Z1:49:LEU:HD12	34:S1:5:ILE:HG23	1.63	0.81
15:O2:17:LEU:HD23	15:O2:18:GLY:H	1.44	0.81
15:O2:65:ASP:CB	28:I4:123:ARG:CZ	2.44	0.81
21:i2:1765:C:OP1	31:P5:11:THR:HG22	1.79	0.81
11:G3:5:ILE:HG12	11:G3:111:LEU:HB3	1.61	0.81
13:M3:111:VAL:HG11	13:M3:114:TYR:HE1	1.42	0.81
21:i3:1776:G:H5''	21:i3:1776:G:N3	1.96	0.81
8:f5:96:LYS:HD3	21:i5:1307:U:C5	2.15	0.81
13:M6:111:VAL:HG11	13:M6:114:TYR:CD1	2.16	0.81
18:Z6:82:SER:CA	21:i6:1598:G:C2'	2.54	0.81
21:i6:1173:A:P	35:j6:17:ARG:NH2	2.52	0.81
28:I6:130:THR:HA	28:I6:134:GLU:HB2	1.61	0.81
37:l2:180:GLU:OE2	37:l2:181:LYS:HD2	1.80	0.81
16:W1:118:ARG:CZ	21:i1:735:C:O2'	2.29	0.80
11:G2:5:ILE:HG12	11:G2:111:LEU:HB3	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A2:214:GLU:CD	33:R2:84:TYR:CD1	2.59	0.80
11:G3:147:LEU:HD22	11:G3:148:SER:H	1.41	0.80
20:e3:25:LYS:HD2	21:i3:554:A:OP1	1.79	0.80
31:P3:41:GLN:CD	31:P3:84:ILE:HG23	2.06	0.80
34:S3:6:PRO:HG3	34:S3:58:GLU:CG	2.10	0.80
10:C4:279:ARG:C	10:C4:280:VAL:HG12	2.06	0.80
21:i4:690:G:H5''	21:i4:690:G:N3	1.95	0.80
21:i5:211:G:C5	21:i5:212:C:C4	2.69	0.80
24:D5:64:ARG:HG3	29:K5:95:ARG:HH12	1.46	0.80
36:k1:93:PRO:O	36:k1:133:ALA:CB	2.27	0.80
36:k1:94:HIS:C	36:k1:133:ALA:O	2.24	0.80
36:k5:146:GLY:HA2	36:k5:167:ILE:CG1	2.09	0.80
36:k6:83:ARG:NH2	36:k6:175:TRP:CD1	2.49	0.80
36:k6:109:ALA:C	36:k6:166:ASN:HD22	1.89	0.80
37:l5:179:GLN:CG	37:l5:180:GLU:H	1.89	0.80
37:l5:180:GLU:OE2	37:l5:181:LYS:HD2	1.80	0.80
21:i1:316:G:N1	21:i1:335:G:C2	2.49	0.80
26:F1:137:GLN:HB3	26:F1:204:ARG:OXT	1.79	0.80
11:G2:183:ARG:NH1	21:i2:317:C:P	2.54	0.80
11:G2:186:GLN:NE2	21:i2:331:C:C4	2.49	0.80
31:P2:108:LYS:HB3	31:P2:109:PRO:HD2	1.62	0.80
11:G3:189:ARG:CZ	21:i3:331:C:N4	2.44	0.80
13:M3:40:LYS:HZ3	21:i3:1310:U:C5'	1.79	0.80
29:K3:32:HIS:H	29:K3:41:PRO:HA	1.46	0.80
18:Z4:82:SER:HA	21:i4:1598:G:H8	1.44	0.80
30:L4:121:GLN:HB2	30:L4:153:LYS:HD2	1.63	0.80
2:U5:17:ILE:CG2	2:U5:94:PRO:CA	2.49	0.80
18:Z5:82:SER:HB3	21:i5:1598:G:C2'	2.11	0.80
21:i5:688:U:H4'	21:i5:689:U:O5'	1.81	0.80
37:l5:117:ILE:HD12	37:l5:174:ILE:CG1	2.11	0.80
37:l5:166:ILE:CG2	37:l5:170:PHE:CE1	2.64	0.80
30:L1:121:GLN:HB2	30:L1:153:LYS:CD	2.08	0.80
13:M2:40:LYS:HZ3	21:i2:1310:U:C5'	1.76	0.80
14:N2:133:ARG:HD3	30:L2:152:LYS:HE3	0.82	0.80
21:i2:1467:C:OP1	33:R2:1:MET:N	2.14	0.80
31:P2:121:ILE:HG12	31:P2:123:TYR:CE1	2.15	0.80
18:Z3:82:SER:CA	21:i3:1598:G:C8	2.61	0.80
31:P3:15:PHE:HZ	31:P3:17:TYR:CD2	1.98	0.80
13:M4:40:LYS:HZ1	21:i4:1310:U:C5'	1.82	0.80
18:Z4:82:SER:CA	21:i4:1598:G:C2'	2.54	0.80
30:L4:152:LYS:CE	30:L4:152:LYS:HA	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e5:46:VAL:N	20:e5:47:PRO:HD3	1.95	0.80
29:K5:32:HIS:H	29:K5:41:PRO:HA	1.46	0.80
26:F6:137:GLN:HB3	26:F6:204:ARG:OXT	1.80	0.80
37:l1:117:ILE:HD12	37:l1:174:ILE:CG1	2.11	0.80
37:l1:180:GLU:OE2	37:l1:181:LYS:HD2	1.80	0.80
37:l3:166:ILE:CG2	37:l3:170:PHE:CE1	2.64	0.80
2:U1:19:ARG:CB	2:U1:118:ASP:O	2.26	0.80
28:l1:158:ILE:HD11	15:O6:63:LYS:HZ1	1.45	0.80
31:P1:121:ILE:CD1	31:P1:123:TYR:HE2	1.54	0.80
8:f2:87:THR:CB	8:f2:90:LYS:HE2	2.09	0.80
11:G2:149:LYS:NZ	11:G2:149:LYS:HB2	1.94	0.80
29:K2:32:HIS:H	29:K2:41:PRO:HA	1.46	0.80
20:e3:25:LYS:CD	21:i3:554:A:OP1	2.30	0.80
21:i4:1776:G:H5'	21:i4:1776:G:N3	1.96	0.80
27:H4:163:GLN:CG	27:H4:189:PHE:HE2	1.79	0.80
16:W5:26:LEU:HD11	16:W5:60:LYS:HB3	1.60	0.80
21:i5:1852:C:C6	35:j5:5:TRP:CD1	2.69	0.80
8:f6:96:LYS:HD3	21:i6:1307:U:C5	2.15	0.80
18:Z6:82:SER:HB3	21:i6:1598:G:C2'	2.12	0.80
21:i6:12:U:H4'	21:i6:1356:G:O2'	1.79	0.80
21:i6:1844:U:O4	35:j6:4:LYS:HD2	1.81	0.80
24:D6:64:ARG:HG3	29:K6:95:ARG:HH12	1.47	0.80
26:F6:127:ARG:HB3	26:F6:128:ILE:HA	1.62	0.80
31:P6:108:LYS:HB3	31:P6:109:PRO:HD2	1.62	0.80
31:P6:121:ILE:HG12	31:P6:123:TYR:CE1	2.15	0.80
37:l3:180:GLU:OE2	37:l3:181:LYS:HD2	1.80	0.80
37:l6:117:ILE:HD12	37:l6:174:ILE:CG1	2.11	0.80
8:f1:95:ARG:O	21:i1:1288:U:OP2	1.99	0.80
11:G1:149:LYS:HB2	11:G1:149:LYS:NZ	1.94	0.80
31:P1:121:ILE:HG12	31:P1:123:TYR:CE1	2.15	0.80
2:U2:66:ARG:H	7:d2:40:ARG:HH22	1.28	0.80
11:G2:143:LYS:HG2	21:i2:1776:G:O3'	1.81	0.80
12:J2:125:HIS:CD2	21:i2:526:A:O2'	2.32	0.80
14:N2:39:LYS:O	14:N2:42:LYS:HD3	1.81	0.80
20:e2:45:VAL:CG2	21:i2:535:G:H4'	2.12	0.80
22:A2:205:ARG:CG	22:A2:210:ILE:HG21	1.99	0.80
13:M3:125:GLU:CB	13:M3:129:LYS:HE3	2.12	0.80
14:N3:39:LYS:O	14:N3:42:LYS:HD3	1.81	0.80
21:i3:1467:C:OP1	33:R3:1:MET:N	2.15	0.80
8:f4:96:LYS:HB3	21:i4:1307:U:H5	1.47	0.80
18:Z4:82:SER:HB3	21:i4:1598:G:H2'	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:137:GLN:HB3	26:F4:204:ARG:OXT	1.79	0.80
10:C5:182:CYS:SG	10:C5:183:LYS:N	2.53	0.80
10:C5:279:ARG:C	10:C5:280:VAL:HG12	2.06	0.80
13:M5:111:VAL:HG11	13:M5:114:TYR:CD1	2.16	0.80
21:i5:337:C:H2'	21:i5:338:G:C4'	2.02	0.80
10:C6:279:ARG:C	10:C6:280:VAL:HG12	2.06	0.80
13:M6:111:VAL:HG11	13:M6:114:TYR:HE1	1.42	0.80
20:e6:43:VAL:CB	21:i6:551:U:O2'	2.29	0.80
36:k3:33:PHE:CZ	36:k3:92:LEU:HD11	2.16	0.80
36:k5:170:LEU:HD23	36:k5:171:ASN:N	1.95	0.80
10:C1:182:CYS:SG	10:C1:183:LYS:N	2.53	0.80
10:C2:279:ARG:C	10:C2:280:VAL:HG12	2.06	0.80
2:U3:66:ARG:H	7:d3:40:ARG:HH22	1.28	0.80
13:M4:111:VAL:HG11	13:M4:114:TYR:CD1	2.16	0.80
15:O4:66:ARG:HH22	28:I5:125:LYS:NZ	1.79	0.80
18:Z4:82:SER:HA	21:i4:1598:G:H2'	1.60	0.80
20:e4:31:ARG:NH1	21:i4:525:A:O3'	2.15	0.80
21:i4:1467:C:OP1	33:R4:1:MET:N	2.14	0.80
23:B4:21:VAL:CG2	30:L5:31:GLU:CG	2.12	0.80
14:N5:39:LYS:O	14:N5:42:LYS:HD3	1.82	0.80
26:F5:137:GLN:HG2	26:F5:204:ARG:C	2.05	0.80
8:f6:95:ARG:CD	21:i6:1289:U:P	2.67	0.80
10:C6:142:LYS:HD2	10:C6:157:LEU:HB2	1.62	0.80
21:i6:1467:C:OP1	33:R6:1:MET:N	2.15	0.80
37:l4:164:ILE:HG22	37:l4:165:ILE:N	1.96	0.80
21:i1:956:G:OP2	28:I3:160:SER:CB	2.29	0.80
31:P1:81:ARG:HB3	31:P1:117:GLY:HA2	1.64	0.80
11:G2:147:LEU:HD22	11:G2:148:SER:H	1.41	0.80
32:Q2:4:LYS:HZ1	32:Q2:99:TYR:C	1.87	0.80
24:D3:64:ARG:HG3	29:K3:95:ARG:HH12	1.46	0.80
31:P3:34:MET:O	31:P3:42:ARG:CG	2.29	0.80
31:P3:121:ILE:HG12	31:P3:123:TYR:CE1	2.15	0.80
33:R3:58:MET:HG3	33:R3:61:ILE:HD11	1.64	0.80
21:i4:1377:U:P	22:A4:102:ARG:HE	2.04	0.80
28:I4:48:VAL:HG11	28:I4:54:LYS:HD3	1.64	0.80
31:P5:15:PHE:CZ	31:P5:112:ILE:HD11	2.17	0.80
20:e6:43:VAL:CG1	21:i6:551:U:H1'	2.11	0.80
34:S6:6:PRO:HG3	34:S6:58:GLU:CG	2.11	0.80
36:k1:94:HIS:HB2	36:k1:135:MET:CG	2.08	0.80
37:l2:117:ILE:HD12	37:l2:174:ILE:CG1	2.11	0.80
37:l2:128:VAL:CA	37:l2:166:ILE:O	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I2:178:ILE:HB	37:I2:190:ILE:HD12	1.63	0.80
37:I6:128:VAL:CA	37:I6:166:ILE:O	2.30	0.80
5:a1:15:ARG:NH2	21:i1:992:A:N7	2.30	0.80
18:Z1:82:SER:HB3	21:i1:1598:G:C2'	2.12	0.80
20:e1:45:VAL:HG12	21:i1:535:G:H4'	0.82	0.80
21:i1:1378:A:P	22:A1:132:GLN:HE22	2.02	0.80
21:i2:969:U:C5	28:I4:161:LEU:HD21	2.16	0.80
13:M3:91:LEU:HD13	21:i3:1284:A:H62	1.45	0.80
21:i4:693:A:N1	21:i4:738:C:H1'	1.96	0.80
21:i4:1059:G:O2'	37:I4:157:SER:HB3	1.81	0.80
11:G5:189:ARG:O	21:i5:331:C:OP2	2.00	0.80
2:U6:19:ARG:HD3	2:U6:119:ALA:C	1.81	0.80
22:A6:214:GLU:CG	33:R6:84:TYR:CD1	2.62	0.80
30:L6:121:GLN:HB2	30:L6:153:LYS:CG	2.12	0.80
36:k1:94:HIS:CG	36:k1:135:MET:HG2	2.17	0.80
36:k1:143:LEU:O	36:k1:169:TYR:HB2	1.82	0.80
37:I1:128:VAL:CA	37:I1:166:ILE:O	2.30	0.80
22:A1:214:GLU:CG	33:R1:84:TYR:HE1	1.82	0.80
18:Z2:49:LEU:HD12	34:S2:5:ILE:HG23	1.63	0.80
31:P3:34:MET:HB3	31:P3:42:ARG:CG	2.08	0.80
5:a4:102:ARG:HB2	5:a4:103:PRO:C	2.06	0.80
28:I5:48:VAL:HG11	28:I5:54:LYS:HD3	1.64	0.80
31:P5:15:PHE:CE1	31:P5:109:PRO:O	2.35	0.80
5:a6:15:ARG:NH2	21:i6:992:A:N7	2.30	0.80
8:f6:80:ARG:NE	21:i6:1509:U:O4	2.13	0.80
31:P6:34:MET:O	31:P6:42:ARG:CD	2.28	0.80
33:R6:77:GLU:O	33:R6:80:ARG:N	2.15	0.80
37:I1:178:ILE:CB	37:I1:190:ILE:HD13	2.07	0.80
20:e2:43:VAL:CB	21:i2:551:U:O2'	2.29	0.80
31:P2:81:ARG:HB3	31:P2:117:GLY:HA2	1.64	0.80
2:U4:19:ARG:HD3	2:U4:119:ALA:C	1.81	0.80
13:M4:36:ARG:HE	13:M4:40:LYS:HZ2	1.28	0.80
21:i4:693:A:N3	21:i4:738:C:C2'	2.44	0.80
8:f5:95:ARG:O	21:i5:1288:U:OP2	1.99	0.80
17:Y5:113:ARG:HA	17:Y5:116:LYS:HZ3	1.47	0.80
28:I5:130:THR:HA	28:I5:134:GLU:HB2	1.61	0.80
36:k1:94:HIS:CG	36:k1:135:MET:HG3	2.17	0.80
36:k4:86:HIS:CD2	36:k4:141:HIS:HB3	2.17	0.80
29:K1:32:HIS:H	29:K1:41:PRO:HA	1.46	0.79
13:M2:111:VAL:HG11	13:M2:114:TYR:CD1	2.16	0.79
26:F2:191:LYS:HE2	28:I4:141:ARG:CD	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:19:ARG:CD	2:U3:119:ALA:HB1	2.08	0.79
8:f3:95:ARG:NE	21:i3:1289:U:C5'	2.22	0.79
8:f3:131:PHE:O	21:i3:1310:U:OP2	2.01	0.79
16:W3:118:ARG:CZ	21:i3:735:C:O2'	2.29	0.79
10:C4:182:CYS:SG	10:C4:183:LYS:N	2.53	0.79
21:i4:1172:U:H5''	35:j4:14:LYS:HZ2	1.47	0.79
21:i4:1775:U:C2'	21:i4:1776:G:O5'	2.31	0.79
24:D4:64:ARG:HG3	29:K4:95:ARG:HH12	1.47	0.79
21:i5:190:G:P	28:I5:148:LYS:HE2	2.21	0.79
21:i5:1751:C:N4	21:i5:1781:A:C2	2.49	0.79
22:A5:214:GLU:CD	33:R5:84:TYR:CD1	2.59	0.79
34:S5:4:VAL:HG23	34:S5:58:GLU:CD	2.07	0.79
32:Q6:4:LYS:HZ1	32:Q6:99:TYR:C	1.89	0.79
36:k6:35:GLY:C	36:k6:91:ILE:CG2	2.53	0.79
37:l1:178:ILE:HB	37:l1:190:ILE:HD12	1.63	0.79
2:U1:19:ARG:CD	2:U1:119:ALA:HB1	2.08	0.79
5:a1:102:ARG:HB2	5:a1:103:PRO:C	2.07	0.79
21:i1:556:U:C5	21:i1:588:G:N9	2.50	0.79
2:U2:19:ARG:HD3	2:U2:119:ALA:C	1.81	0.79
5:a2:102:ARG:HB2	5:a2:103:PRO:C	2.06	0.79
8:f2:95:ARG:CD	21:i2:1289:U:P	2.67	0.79
8:f2:131:PHE:O	21:i2:1310:U:OP2	2.01	0.79
21:i2:1689:C:O3'	21:i2:1690:U:P	2.39	0.79
13:M3:111:VAL:HG11	13:M3:114:TYR:CD1	2.16	0.79
21:i3:1689:C:H3'	21:i3:1690:U:P	2.22	0.79
34:S3:4:VAL:HG23	34:S3:58:GLU:CD	2.08	0.79
14:N4:39:LYS:O	14:N4:42:LYS:HD3	1.81	0.79
21:i4:925:G:H1	21:i4:1017:U:H3	1.30	0.79
11:G5:189:ARG:HB2	21:i5:331:C:H41	1.48	0.79
20:e5:45:VAL:HG21	21:i5:535:G:C5'	2.08	0.79
21:i5:1776:G:H5''	21:i5:1776:G:N3	1.97	0.79
31:P5:41:GLN:HB3	31:P5:84:ILE:HD13	0.85	0.79
8:f6:95:ARG:CG	21:i6:1289:U:OP1	2.30	0.79
8:f6:95:ARG:HB3	21:i6:1289:U:P	2.23	0.79
20:e6:43:VAL:HG11	21:i6:551:U:O2'	1.82	0.79
34:S6:4:VAL:HG23	34:S6:58:GLU:CD	2.07	0.79
36:k6:94:HIS:CG	36:k6:135:MET:CG	2.65	0.79
37:l4:117:ILE:HD12	37:l4:174:ILE:CG1	2.11	0.79
20:e1:39:ASN:CA	20:e1:43:VAL:HG21	2.11	0.79
31:P2:119:PHE:CD1	34:S2:119:ALA:CB	2.58	0.79
5:a3:102:ARG:HB2	5:a3:103:PRO:C	2.06	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f3:95:ARG:NH2	21:i3:1290:G:OP2	2.16	0.79
21:i3:1172:U:H4'	35:j3:10:MET:HE2	0.80	0.79
33:R3:65:PRO:HA	33:R3:73:LEU:CD2	2.11	0.79
11:G4:143:LYS:HD3	21:i4:1778:C:H5''	0.80	0.79
18:Z4:82:SER:HB3	21:i4:1598:G:C2'	2.12	0.79
21:i4:316:G:C6	21:i4:335:G:N2	2.48	0.79
21:i4:628:A:N6	24:D4:145:GLN:CG	2.45	0.79
21:i5:1467:C:OP1	33:R5:1:MET:N	2.15	0.79
36:k2:143:LEU:O	36:k2:169:TYR:HB3	1.82	0.79
36:k3:33:PHE:CD1	36:k3:92:LEU:HG	2.18	0.79
37:l3:179:GLN:CG	37:l3:180:GLU:H	1.89	0.79
37:l4:128:VAL:CA	37:l4:166:ILE:O	2.30	0.79
19:b1:37:CYS:O	19:b1:77:CYS:CB	2.30	0.79
21:i2:1775:U:C2'	21:i2:1776:G:O5'	2.30	0.79
8:f3:80:ARG:NH1	21:i3:1509:U:C4	2.50	0.79
18:Z3:49:LEU:HD12	34:S3:5:ILE:HG23	1.63	0.79
26:F3:182:LYS:HZ1	21:i6:200:G:C5'	1.65	0.79
34:S3:4:VAL:HG23	34:S3:58:GLU:OE2	1.82	0.79
8:f4:95:ARG:HB3	21:i4:1289:U:P	2.23	0.79
21:i4:1069:U:OP1	36:k4:18:LYS:HE2	1.82	0.79
22:A4:4:ALA:H	22:A4:5:LEU:HA	1.47	0.79
26:F4:182:LYS:HG2	21:i5:200:G:C5'	2.12	0.79
33:R4:58:MET:CA	33:R4:61:ILE:HD11	2.12	0.79
21:i5:1828:C:O4'	37:l5:154:CYS:HA	1.80	0.79
36:k4:95:GLN:CB	36:k4:164:ILE:HD12	2.12	0.79
37:l1:115:VAL:CG1	37:l1:116:THR:N	2.16	0.79
37:l3:128:VAL:CA	37:l3:166:ILE:O	2.30	0.79
13:M1:111:VAL:HG11	13:M1:114:TYR:CD1	2.16	0.79
14:N1:39:LYS:O	14:N1:42:LYS:HD3	1.82	0.79
5:a2:15:ARG:NH2	21:i2:992:A:N7	2.30	0.79
18:Z2:82:SER:HB3	21:i2:1598:G:C2'	2.12	0.79
18:Z3:78:LYS:NZ	21:i6:209:A:H4'	1.96	0.79
8:f4:131:PHE:O	21:i4:1310:U:OP2	2.01	0.79
8:f5:95:ARG:NH2	21:i5:1290:G:OP2	2.16	0.79
21:i5:628:A:H62	24:D5:145:GLN:HG3	1.47	0.79
28:I5:207:GLY:C	36:k4:12:SER:OG	2.25	0.79
33:R5:21:TYR:CE2	33:R5:72:LYS:HD3	2.17	0.79
13:M6:28:HIS:HE1	13:M6:116:LYS:HE3	1.47	0.79
36:k3:86:HIS:HB3	36:k3:141:HIS:CD2	2.15	0.79
36:k4:22:ILE:CD1	36:k4:50:VAL:HG21	2.12	0.79
36:k4:170:LEU:CD2	36:k4:171:ASN:N	2.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:83:ARG:NH2	36:k6:175:TRP:CG	2.50	0.79
37:l1:164:ILE:HG22	37:l1:165:ILE:N	1.96	0.79
37:l2:180:GLU:HG2	37:l2:181:LYS:HD2	1.65	0.79
37:l3:117:ILE:HD12	37:l3:174:ILE:CG1	2.11	0.79
37:l6:166:ILE:CG2	37:l6:170:PHE:CE1	2.64	0.79
21:i2:732:U:HO2'	21:i2:733:C:P	2.05	0.79
21:i2:1300:U:C2	31:P2:51:ARG:NH1	2.38	0.79
26:F2:127:ARG:HB3	26:F2:128:ILE:HA	1.62	0.79
34:S2:4:VAL:HG23	34:S2:58:GLU:OE2	1.82	0.79
8:f3:95:ARG:HB3	21:i3:1289:U:P	2.23	0.79
18:Z3:82:SER:HB3	21:i3:1598:G:C2'	2.12	0.79
21:i3:1172:U:H5'	35:j3:14:LYS:HD3	1.64	0.79
21:i4:12:U:C1'	21:i4:1357:A:H1'	2.12	0.79
5:a5:102:ARG:HB2	5:a5:103:PRO:C	2.07	0.79
14:N5:101:HIS:HD1	21:i5:1008:A:H1'	1.48	0.79
21:i5:316:G:N2	21:i5:335:G:N2	2.31	0.79
8:f6:95:ARG:NH2	21:i6:1290:G:OP2	2.16	0.79
13:M6:125:GLU:CB	13:M6:129:LYS:HE3	2.12	0.79
14:N6:101:HIS:HD1	21:i6:1008:A:H1'	1.48	0.79
36:k2:170:LEU:HD12	36:k2:175:TRP:CH2	2.17	0.79
13:M1:36:ARG:HE	13:M1:40:LYS:HZ1	1.27	0.79
4:X2:54:LYS:HG3	20:e2:6:LEU:HD11	1.65	0.79
11:G2:193:ALA:HB2	21:i2:331:C:P	2.22	0.79
21:i2:380:G:OP1	28:I2:56:ARG:NH2	2.16	0.79
21:i2:1776:G:N3	21:i2:1776:G:H5''	1.96	0.79
30:L2:31:GLU:H	23:B5:21:VAL:HG22	1.46	0.79
10:C3:145:LYS:CG	21:i3:1348:G:H5'	2.12	0.79
10:C3:277:HIS:CE1	10:C3:279:ARG:HD3	2.18	0.79
18:Z3:82:SER:CA	21:i3:1598:G:C2'	2.54	0.79
21:i3:316:G:C6	21:i3:335:G:N1	2.50	0.79
21:i3:380:G:OP1	28:I3:56:ARG:NH2	2.16	0.79
21:i3:970:G:H21	28:I6:200:ARG:CZ	1.96	0.79
31:P4:12:PHE:CZ	21:i5:1766:C:OP2	2.35	0.79
33:R5:60:ARG:HH11	33:R5:60:ARG:HG3	1.46	0.79
18:Z6:82:SER:HB3	21:i6:1598:G:H2'	1.61	0.79
21:i6:380:G:OP1	28:I6:56:ARG:NH2	2.16	0.79
21:i6:440:G:O2'	21:i6:1737:G:H1'	1.83	0.79
21:i6:925:G:H1	21:i6:1017:U:H3	1.30	0.79
21:i6:1757:G:C6	21:i6:1776:G:O6	2.36	0.79
28:I6:74:ARG:HH21	28:I6:112:TRP:HB2	1.47	0.79
37:l6:115:VAL:CG1	37:l6:116:THR:N	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l6:178:ILE:HB	37:l6:190:ILE:HD12	1.63	0.79
1:T1:84:ARG:HH12	21:i1:1537:A:H5''	1.48	0.79
21:i1:1467:C:OP1	33:R1:1:MET:N	2.15	0.79
21:i1:1700:C:C2	21:i1:1834:A:N6	2.50	0.79
8:f2:95:ARG:HB3	21:i2:1289:U:P	2.23	0.79
13:M2:91:LEU:HD13	21:i2:1284:A:H62	1.45	0.79
24:D2:64:ARG:HG3	29:K2:95:ARG:HH12	1.46	0.79
28:I2:48:VAL:HG11	28:I2:54:LYS:HD3	1.64	0.79
34:S2:4:VAL:HG23	34:S2:58:GLU:CD	2.08	0.79
21:i3:696:G:N2	21:i3:734:C:C4'	2.46	0.79
10:C4:64:THR:C	10:C4:277:HIS:HE1	1.85	0.79
21:i4:1757:G:C6	21:i4:1776:G:O6	2.36	0.79
24:D4:64:ARG:HG3	29:K4:95:ARG:NH2	1.98	0.79
31:P4:12:PHE:HZ	21:i5:1766:C:OP2	1.64	0.79
8:f5:96:LYS:HB3	21:i5:1307:U:H5	1.47	0.79
21:i5:380:G:OP1	28:I5:56:ARG:NH2	2.16	0.79
21:i5:1775:U:C2'	21:i5:1776:G:O5'	2.30	0.79
22:A5:4:ALA:H	22:A5:5:LEU:HA	1.47	0.79
13:M6:36:ARG:HE	13:M6:40:LYS:HZ2	1.30	0.79
31:P6:121:ILE:CD1	31:P6:123:TYR:HE2	1.55	0.79
36:k2:82:LEU:CD2	36:k2:142:ALA:HB3	2.13	0.79
36:k6:172:ASP:O	36:k6:176:HIS:CG	2.36	0.79
10:C1:65:LYS:NZ	10:C1:280:VAL:HB	1.98	0.79
24:D2:64:ARG:HG3	29:K2:95:ARG:NH2	1.98	0.79
28:I3:48:VAL:HG11	28:I3:54:LYS:HD3	1.64	0.79
5:a4:15:ARG:NH2	21:i4:992:A:N7	2.30	0.79
21:i4:1843:G:OP2	35:j4:4:LYS:NZ	2.14	0.79
8:f5:80:ARG:HD2	21:i5:1509:U:C2	2.12	0.79
31:P5:81:ARG:HB3	31:P5:117:GLY:HA2	1.64	0.79
5:a6:102:ARG:HB2	5:a6:103:PRO:C	2.07	0.79
8:f6:97:LYS:HG3	21:i6:1288:U:OP2	1.83	0.79
14:N6:39:LYS:O	14:N6:42:LYS:HD3	1.81	0.79
21:i6:12:U:C4'	21:i6:1356:G:O2'	2.29	0.79
30:L6:124:ASP:HB2	30:L6:147:LYS:HB3	1.62	0.79
36:k2:170:LEU:HG	36:k2:171:ASN:H	1.48	0.79
36:k2:172:ASP:O	36:k2:176:HIS:CG	2.36	0.79
36:k5:83:ARG:CG	36:k5:175:TRP:CE3	2.65	0.79
37:l2:164:ILE:HG22	37:l2:165:ILE:N	1.96	0.79
37:l6:180:GLU:HG2	37:l6:181:LYS:HD2	1.65	0.79
8:f1:97:LYS:HG3	21:i1:1288:U:OP2	1.83	0.79
34:S1:4:VAL:HG23	34:S1:58:GLU:CD	2.08	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M2:91:LEU:CD1	21:i2:1284:A:H62	1.96	0.79
14:N2:101:HIS:HD1	21:i2:1008:A:H1'	1.48	0.79
18:Z2:83:LEU:HD23	34:S2:55:ARG:NH2	1.98	0.79
35:j2:18:ARG:O	35:j2:22:GLN:HG3	1.83	0.79
1:T3:84:ARG:HH12	21:i3:1537:A:H5''	1.48	0.79
5:a3:15:ARG:NH2	21:i3:992:A:N7	2.30	0.79
21:i3:969:U:O2	21:i3:971:G:N2	2.16	0.79
8:f4:95:ARG:NH2	21:i4:1290:G:OP2	2.16	0.79
18:Z4:83:LEU:HD23	34:S4:55:ARG:NH2	1.97	0.79
21:i4:1172:U:H5'	35:j4:14:LYS:HZ3	1.17	0.79
8:f5:97:LYS:HG3	21:i5:1288:U:OP2	1.83	0.79
22:A5:209:GLU:HB2	22:A5:213:GLU:OE2	1.83	0.79
28:I5:74:ARG:HH21	28:I5:112:TRP:HB2	1.48	0.79
10:C6:65:LYS:NZ	10:C6:280:VAL:HB	1.98	0.79
21:i6:628:A:C5	24:D6:179:GLN:NE2	2.51	0.79
36:k3:82:LEU:CD1	36:k3:169:TYR:HA	2.12	0.79
37:l1:180:GLU:HG2	37:l1:181:LYS:HD2	1.65	0.79
16:W1:118:ARG:NH2	21:i1:735:C:C2'	2.46	0.78
20:e2:43:VAL:HG11	21:i2:551:U:H1'	1.65	0.78
33:R2:25:GLY:H	33:R2:31:ASN:HB3	1.48	0.78
10:C3:65:LYS:NZ	10:C3:280:VAL:HB	1.98	0.78
14:N3:129:TYR:CB	14:N3:134:VAL:CG2	2.01	0.78
28:I3:74:ARG:HH21	28:I3:112:TRP:HB2	1.47	0.78
8:f4:105:TYR:HH	8:f4:131:PHE:HB3	0.87	0.78
21:i4:380:G:OP1	28:I4:56:ARG:NH2	2.16	0.78
28:I4:74:ARG:HH21	28:I4:112:TRP:HB2	1.48	0.78
1:T5:84:ARG:HH12	21:i5:1537:A:H5''	1.49	0.78
2:U5:66:ARG:H	7:d5:40:ARG:HH22	1.28	0.78
18:Z5:83:LEU:HD23	34:S5:55:ARG:NH2	1.97	0.78
21:i5:925:G:H1	21:i5:1017:U:H3	1.29	0.78
21:i5:969:U:O2	21:i5:971:G:N2	2.16	0.78
18:Z6:83:LEU:HD23	34:S6:55:ARG:NH2	1.97	0.78
21:i6:689:U:H2'	21:i6:690:G:H4'	1.65	0.78
21:i6:1694:U:O2'	21:i6:1833:C:O2'	1.99	0.78
31:P6:45:LEU:CD1	31:P6:49:LEU:HD21	2.13	0.78
36:k3:172:ASP:O	36:k3:176:HIS:CG	2.36	0.78
36:k4:95:GLN:HG3	36:k4:164:ILE:HD12	0.80	0.78
36:k4:145:VAL:HB	36:k4:167:ILE:HG21	1.62	0.78
37:l3:180:GLU:HG2	37:l3:181:LYS:HD2	1.65	0.78
37:l6:164:ILE:HG22	37:l6:165:ILE:N	1.97	0.78
21:i1:380:G:OP1	28:I1:56:ARG:NH2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I1:74:ARG:HH21	28:I1:112:TRP:HB2	1.48	0.78
28:I2:74:ARG:HH21	28:I2:112:TRP:HB2	1.47	0.78
21:i3:1775:U:C2'	21:i3:1776:G:O5'	2.31	0.78
17:Y4:113:ARG:HA	17:Y4:116:LYS:HZ3	1.46	0.78
27:H4:163:GLN:CG	27:H4:189:PHE:CZ	2.57	0.78
11:G5:187:HIS:HE1	21:i5:317:C:H41	1.31	0.78
10:C6:277:HIS:CE1	10:C6:279:ARG:HD3	2.18	0.78
21:i6:1058:A:C2	37:l6:126:LYS:HE2	2.19	0.78
36:k1:39:TRP:NE1	36:k1:90:PHE:CZ	2.51	0.78
37:l3:128:VAL:HG12	37:l3:166:ILE:H	1.47	0.78
37:l6:128:VAL:HG12	37:l6:166:ILE:H	1.47	0.78
8:f1:80:ARG:NH2	21:i1:1503:C:H1'	1.99	0.78
13:M1:28:HIS:HE1	13:M1:116:LYS:HE3	1.48	0.78
8:f2:95:ARG:NH2	21:i2:1290:G:OP2	2.16	0.78
33:R2:21:TYR:CG	33:R2:71:ILE:HD12	2.17	0.78
10:C3:279:ARG:C	10:C3:280:VAL:HG12	2.06	0.78
34:S3:108:ARG:NH2	21:i6:1773:C:C3'	2.31	0.78
8:f4:97:LYS:HG3	21:i4:1288:U:OP2	1.83	0.78
21:i4:969:U:O2	21:i4:971:G:N2	2.16	0.78
2:U5:19:ARG:HD3	2:U5:119:ALA:C	1.81	0.78
10:C5:277:HIS:CE1	10:C5:279:ARG:HD3	2.18	0.78
34:S5:4:VAL:HG23	34:S5:58:GLU:OE2	1.82	0.78
31:P6:121:ILE:HB	34:S6:120:HIS:CD2	2.19	0.78
34:S6:4:VAL:HG23	34:S6:58:GLU:OE2	1.82	0.78
36:k1:172:ASP:O	36:k1:176:HIS:CG	2.36	0.78
36:k2:22:ILE:CD1	36:k2:50:VAL:HG21	2.13	0.78
36:k4:10:ASN:CA	36:k4:56:HIS:HD1	1.96	0.78
11:G2:190:ARG:NH2	21:i2:332:G:C5	2.52	0.78
26:F2:137:GLN:HA	26:F2:203:ASN:CB	2.14	0.78
14:N3:101:HIS:HD1	21:i3:1008:A:H1'	1.48	0.78
24:D3:64:ARG:HG3	29:K3:95:ARG:NH2	1.98	0.78
31:P3:41:GLN:OE1	31:P3:84:ILE:CD1	2.31	0.78
33:R3:25:GLY:H	33:R3:31:ASN:HB3	1.48	0.78
35:j3:22:GLN:HA	35:j3:25:LYS:HG3	1.66	0.78
4:X4:61:GLN:CD	21:i4:1824:A:C8	2.62	0.78
13:M4:91:LEU:HD13	21:i4:1284:A:H62	1.45	0.78
34:S4:4:VAL:HG23	34:S4:58:GLU:OE2	1.82	0.78
34:S4:105:ASN:ND2	21:i5:1761:U:OP1	2.16	0.78
35:j4:22:GLN:HA	35:j4:25:LYS:HG3	1.66	0.78
21:i5:1757:G:C6	21:i5:1776:G:O6	2.36	0.78
21:i5:1849:G:OP2	37:l5:146:ARG:CZ	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:j5:18:ARG:O	35:j5:22:GLN:HG3	1.83	0.78
36:k1:22:ILE:CD1	36:k1:50:VAL:HG21	2.13	0.78
36:k2:83:ARG:HG2	36:k2:175:TRP:HZ3	1.45	0.78
36:k3:82:LEU:HD22	36:k3:142:ALA:O	1.84	0.78
36:k4:170:LEU:CD2	36:k4:171:ASN:CG	2.56	0.78
36:k5:10:ASN:CA	36:k5:56:HIS:HD1	1.97	0.78
37:l5:128:VAL:CA	37:l5:166:ILE:O	2.30	0.78
5:a1:102:ARG:N	5:a1:102:ARG:HD2	1.99	0.78
8:f1:99:LYS:CB	21:i1:1285:G:N2	2.36	0.78
21:i1:1172:U:H4'	35:j1:10:MET:HE2	1.58	0.78
1:T2:84:ARG:HH12	21:i2:1537:A:H5''	1.48	0.78
10:C2:277:HIS:CE1	10:C2:279:ARG:HD3	2.18	0.78
21:i2:316:G:N1	21:i2:335:G:C2	2.52	0.78
21:i2:1757:G:C6	21:i2:1776:G:O6	2.36	0.78
22:A3:209:GLU:HB2	22:A3:213:GLU:OE2	1.84	0.78
26:F3:127:ARG:HB3	26:F3:128:ILE:CA	2.14	0.78
33:R3:70:SER:O	33:R3:71:ILE:HG23	1.84	0.78
13:M4:91:LEU:CD1	21:i4:1284:A:H62	1.96	0.78
20:e4:8:ARG:CZ	20:e4:11:LYS:HD3	2.12	0.78
21:i4:693:A:C6	21:i4:738:C:O2	2.36	0.78
21:i4:1693:G:O2'	21:i4:1834:A:H4'	1.82	0.78
18:Z5:49:LEU:HD12	34:S5:5:ILE:HG23	1.63	0.78
20:e5:43:VAL:HG11	21:i5:551:U:C1'	2.13	0.78
26:F5:137:GLN:HA	26:F5:203:ASN:CB	2.14	0.78
21:i6:969:U:O2	21:i6:971:G:N2	2.17	0.78
21:i6:1775:U:C2'	21:i6:1776:G:O5'	2.30	0.78
24:D6:64:ARG:HG3	29:K6:95:ARG:NH2	1.98	0.78
33:R6:25:GLY:H	33:R6:31:ASN:HB3	1.48	0.78
36:k3:86:HIS:CB	36:k3:141:HIS:HD2	1.97	0.78
36:k5:172:ASP:O	36:k5:176:HIS:CG	2.36	0.78
36:k6:36:ILE:CA	36:k6:91:ILE:HG21	2.13	0.78
37:l5:128:VAL:HG12	37:l5:166:ILE:H	1.47	0.78
37:l5:164:ILE:HG22	37:l5:165:ILE:N	1.96	0.78
21:i1:925:G:H1	21:i1:1017:U:H3	1.30	0.78
31:P1:121:ILE:HB	34:S1:120:HIS:CD2	2.19	0.78
22:A2:209:GLU:HB2	22:A2:213:GLU:OE2	1.84	0.78
30:L2:121:GLN:HG3	30:L2:153:LYS:CE	2.14	0.78
31:P2:15:PHE:CE2	31:P2:112:ILE:HD13	2.19	0.78
13:M3:91:LEU:CD1	21:i3:1284:A:H62	1.96	0.78
34:S3:86:ARG:HD2	34:S3:106:LYS:HD3	1.66	0.78
21:i4:1183:A:P	35:j4:15:ARG:HH11	2.05	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S4:4:VAL:HG23	34:S4:58:GLU:CD	2.08	0.78
5:a5:15:ARG:NH2	21:i5:992:A:N7	2.30	0.78
20:e5:35:ARG:HH12	21:i5:526:A:H5'	1.49	0.78
24:D5:64:ARG:HG3	29:K5:95:ARG:NH2	1.97	0.78
26:F5:127:ARG:HB3	26:F5:128:ILE:CA	2.14	0.78
1:T6:84:ARG:HH12	21:i6:1537:A:H5''	1.48	0.78
8:f6:95:ARG:HD2	21:i6:1289:U:P	2.23	0.78
10:C6:142:LYS:HD2	10:C6:157:LEU:HD13	1.60	0.78
21:i6:1776:G:H5''	21:i6:1776:G:N3	1.96	0.78
31:P6:41:GLN:CD	31:P6:84:ILE:HD13	2.07	0.78
31:P6:81:ARG:HB3	31:P6:117:GLY:HA2	1.64	0.78
36:k4:172:ASP:O	36:k4:176:HIS:CG	2.36	0.78
36:k6:94:HIS:HB2	36:k6:133:ALA:O	1.83	0.78
37:l3:164:ILE:HG22	37:l3:165:ILE:N	1.96	0.78
8:f1:95:ARG:NH2	21:i1:1290:G:OP2	2.16	0.78
8:f1:131:PHE:O	21:i1:1310:U:OP2	2.01	0.78
21:i1:1757:G:C6	21:i1:1776:G:O6	2.36	0.78
31:P1:15:PHE:CE2	31:P1:112:ILE:HD13	2.19	0.78
35:j1:22:GLN:HA	35:j1:25:LYS:HG3	1.66	0.78
18:Z2:82:SER:HA	21:i2:1598:G:H8	1.44	0.78
8:f3:80:ARG:CG	21:i3:1509:U:H3	1.96	0.78
18:Z3:83:LEU:HD23	34:S3:55:ARG:NH2	1.97	0.78
21:i3:925:G:H1	21:i3:1017:U:H3	1.30	0.78
19:b4:37:CYS:O	19:b4:77:CYS:HB3	1.84	0.78
31:P4:121:ILE:HB	34:S4:120:HIS:CD2	2.19	0.78
8:f5:131:PHE:O	21:i5:1310:U:OP2	2.01	0.78
21:i5:187:G:C2	21:i5:213:G:C6	2.72	0.78
35:j6:18:ARG:O	35:j6:22:GLN:HG3	1.83	0.78
36:k6:94:HIS:CB	36:k6:135:MET:HG2	2.13	0.78
37:l5:115:VAL:HG13	37:l5:116:THR:H	1.49	0.78
8:f1:95:ARG:HB3	21:i1:1289:U:P	2.23	0.78
26:F1:137:GLN:HA	26:F1:203:ASN:CB	2.14	0.78
34:S1:4:VAL:HG23	34:S1:58:GLU:OE2	1.82	0.78
4:X2:55:VAL:HG13	20:e2:5:SER:HB2	1.65	0.78
20:e2:45:VAL:CG2	21:i2:535:G:C4'	2.62	0.78
31:P3:81:ARG:HB3	31:P3:117:GLY:HA2	1.64	0.78
21:i5:191:A:H62	21:i5:209:A:H1'	1.49	0.78
21:i5:455:A:O2'	21:i5:1735:A:N3	2.14	0.78
11:G6:189:ARG:HD2	21:i6:330:G:N7	1.98	0.78
21:i6:1143:A:O2'	21:i6:1355:C:N4	2.15	0.78
30:L6:121:GLN:HB2	30:L6:153:LYS:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k4:88:TYR:O	36:k4:91:ILE:CG1	2.29	0.78
37:l3:180:GLU:CA	37:l3:181:LYS:HB3	2.14	0.78
15:O1:66:ARG:HH22	28:I3:125:LYS:CG	1.96	0.78
22:A1:4:ALA:H	22:A1:5:LEU:HA	1.48	0.78
24:D1:64:ARG:HG3	29:K1:95:ARG:NH2	1.98	0.78
26:F1:127:ARG:HB3	26:F1:128:ILE:CA	2.14	0.78
28:I1:48:VAL:HG11	28:I1:54:LYS:HD3	1.64	0.78
8:f2:95:ARG:HD2	21:i2:1289:U:P	2.22	0.78
23:B2:21:VAL:N	30:L4:30:LYS:O	1.80	0.78
33:R2:21:TYR:CD2	33:R2:71:ILE:CD1	2.65	0.78
5:a3:102:ARG:N	5:a3:102:ARG:HD2	1.99	0.78
14:N3:148:ALA:CB	14:N3:149:LEU:HA	2.09	0.78
21:i3:1757:G:C6	21:i3:1776:G:O6	2.36	0.78
21:i3:1849:G:N2	37:l3:149:ALA:O	2.16	0.78
13:M5:91:LEU:HD13	21:i5:1284:A:H62	1.45	0.78
8:f6:131:PHE:O	21:i6:1310:U:OP2	2.00	0.78
22:A6:209:GLU:HB2	22:A6:213:GLU:OE2	1.84	0.78
36:k6:93:PRO:O	36:k6:133:ALA:HB3	1.84	0.78
4:X1:51:VAL:HA	4:X1:72:VAL:HG12	1.65	0.78
21:i1:1841:C:P	35:j1:2:ARG:HD3	2.23	0.78
10:C2:121:ARG:NH2	21:i2:1347:U:OP1	2.16	0.78
21:i2:969:U:O2	21:i2:971:G:N2	2.17	0.78
31:P2:121:ILE:HB	34:S2:120:HIS:CD2	2.19	0.78
35:j2:22:GLN:HA	35:j2:25:LYS:HG3	1.65	0.78
13:M3:91:LEU:HD13	21:i3:1284:A:N6	1.99	0.78
5:a4:102:ARG:N	5:a4:102:ARG:HD2	1.99	0.78
13:M4:125:GLU:CB	13:M4:129:LYS:HE3	2.12	0.78
7:d5:21:CYS:O	29:K5:65:ARG:NH1	2.17	0.78
34:S5:86:ARG:HD2	34:S5:106:LYS:HD3	1.66	0.78
29:K6:32:HIS:H	29:K6:41:PRO:HA	1.46	0.78
36:k4:145:VAL:O	36:k4:167:ILE:N	2.16	0.78
21:i1:1174:U:OP1	35:j1:21:ARG:HD2	1.84	0.77
5:a2:102:ARG:N	5:a2:102:ARG:HD2	1.99	0.77
11:G2:92:ARG:NH2	21:i2:1738:C:OP1	2.17	0.77
8:f3:95:ARG:CG	21:i3:1289:U:OP1	2.30	0.77
8:f3:97:LYS:HG3	21:i3:1288:U:OP2	1.83	0.77
21:i3:867:G:H4'	30:L3:149:ALA:HA	1.66	0.77
4:X4:51:VAL:HA	4:X4:72:VAL:HG12	1.65	0.77
14:N4:133:ARG:NH2	30:L4:154:GLN:CB	2.47	0.77
21:i4:1708:C:O2'	37:l4:152:PHE:N	2.17	0.77
18:Z5:82:SER:HA	21:i5:1598:G:H2'	1.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1851:A:C5'	35:j5:1:MET:HE3	2.12	0.77
31:P5:121:ILE:HB	34:S5:120:HIS:CD2	2.19	0.77
33:R5:25:GLY:H	33:R5:31:ASN:HB3	1.48	0.77
36:k4:2:PHE:HB2	36:k4:168:HIS:ND1	1.89	0.77
36:k4:96:GLN:OE1	36:k4:122:LYS:HD3	1.84	0.77
37:l5:178:ILE:HB	37:l5:190:ILE:HD12	1.63	0.77
37:l6:182:TRP:CB	37:l6:183:PRO:HA	2.07	0.77
13:M1:91:LEU:CD1	21:i1:1284:A:H62	1.96	0.77
14:N1:124:ARG:NH2	21:i1:1024:A:OP2	2.18	0.77
20:e1:45:VAL:CG1	21:i1:535:G:O2'	2.32	0.77
34:S1:86:ARG:HD2	34:S1:106:LYS:HD3	1.66	0.77
4:X2:51:VAL:HA	4:X2:72:VAL:HG12	1.65	0.77
15:O2:65:ASP:HB2	28:I4:123:ARG:HH21	1.48	0.77
21:i2:318:A:C4	21:i2:333:G:N2	2.52	0.77
21:i2:1829:G:OP1	37:l2:126:LYS:HE3	1.84	0.77
21:i3:1756:C:N4	21:i3:1776:G:N1	2.32	0.77
10:C4:65:LYS:NZ	10:C4:280:VAL:HB	1.98	0.77
22:A6:4:ALA:H	22:A6:5:LEU:HA	1.47	0.77
36:k4:169:TYR:CZ	36:k4:172:ASP:HB3	2.19	0.77
18:Z1:83:LEU:HD23	34:S1:55:ARG:NH2	1.97	0.77
33:R1:72:LYS:O	33:R1:74:GLN:N	2.18	0.77
35:j1:18:ARG:O	35:j1:22:GLN:HG3	1.83	0.77
10:C2:65:LYS:NZ	10:C2:280:VAL:HB	1.98	0.77
21:i2:191:A:H62	21:i2:209:A:H1'	1.49	0.77
26:F2:127:ARG:HB3	26:F2:128:ILE:CG1	2.15	0.77
8:f3:96:LYS:HB3	21:i3:1307:U:C4	2.20	0.77
18:Z3:82:SER:HA	21:i3:1598:G:H8	1.43	0.77
21:i3:1069:U:H5'	36:k3:16:GLN:HB3	1.67	0.77
26:F3:137:GLN:HA	26:F3:203:ASN:CB	2.14	0.77
31:P3:121:ILE:HB	34:S3:120:HIS:CD2	2.19	0.77
13:M4:91:LEU:HD13	21:i4:1284:A:N6	1.99	0.77
14:N4:148:ALA:H	14:N4:149:LEU:CB	1.94	0.77
21:i4:1378:A:OP2	22:A4:105:PRO:HG3	1.84	0.77
33:R4:25:GLY:H	33:R4:31:ASN:HB3	1.48	0.77
26:F5:125:SER:HA	26:F5:138:ALA:HA	1.67	0.77
18:Z6:49:LEU:HD12	34:S6:5:ILE:HG23	1.63	0.77
36:k2:91:ILE:O	36:k2:92:LEU:HG	1.84	0.77
8:f1:95:ARG:HD2	21:i1:1289:U:P	2.22	0.77
10:C1:277:HIS:CE1	10:C1:279:ARG:HD3	2.18	0.77
21:i1:1707:U:O2	37:l1:153:SER:CB	2.31	0.77
31:P1:37:TYR:OH	31:P1:87:PRO:HD3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M2:125:GLU:CB	13:M2:129:LYS:HE3	2.12	0.77
30:L2:135:SER:O	30:L2:139:ARG:NH1	2.18	0.77
21:i3:556:U:H5''	21:i3:589:G:OP2	1.82	0.77
21:i3:628:A:H62	24:D3:145:GLN:HG2	1.49	0.77
35:j3:18:ARG:O	35:j3:22:GLN:HG3	1.83	0.77
10:C4:277:HIS:CE1	10:C4:279:ARG:HD3	2.18	0.77
26:F4:127:ARG:HB3	26:F4:128:ILE:CG1	2.15	0.77
28:I4:206:LYS:O	36:k2:12:SER:OG	2.01	0.77
5:a5:102:ARG:N	5:a5:102:ARG:HD2	1.99	0.77
21:i5:1756:C:N4	21:i5:1776:G:N1	2.33	0.77
13:M6:40:LYS:HZ1	21:i6:1310:U:C5'	1.83	0.77
37:l2:180:GLU:CA	37:l2:181:LYS:HB3	2.14	0.77
37:l3:115:VAL:CG1	37:l3:116:THR:N	2.16	0.77
37:l3:178:ILE:HB	37:l3:190:ILE:HD12	1.63	0.77
37:l6:180:GLU:CA	37:l6:181:LYS:HB3	2.14	0.77
11:G1:186:GLN:NE2	21:i1:331:C:N4	2.23	0.77
33:R1:57:LEU:HD11	33:R1:66:VAL:HG11	1.66	0.77
11:G2:193:ALA:HB1	21:i2:331:C:OP1	1.84	0.77
8:f3:99:LYS:CB	21:i3:1285:G:N2	2.37	0.77
1:T4:84:ARG:HH12	21:i4:1537:A:H5''	1.48	0.77
5:a4:48:ALA:HB2	6:c4:64:GLU:OE1	1.85	0.77
20:e4:8:ARG:HH11	20:e4:11:LYS:HD3	1.49	0.77
26:F5:137:GLN:CG	26:F5:204:ARG:H	1.98	0.77
4:X6:51:VAL:HA	4:X6:72:VAL:HG12	1.65	0.77
21:i6:1351:G:C4	21:i6:1352:G:N7	2.53	0.77
36:k2:10:ASN:CA	36:k2:56:HIS:HD1	1.97	0.77
36:k4:96:GLN:NE2	36:k4:122:LYS:HG3	1.99	0.77
37:l5:180:GLU:HG2	37:l5:181:LYS:HD2	1.65	0.77
7:d1:21:CYS:O	29:K1:65:ARG:NH1	2.17	0.77
21:i1:191:A:H62	21:i1:209:A:H1'	1.49	0.77
26:F1:125:SER:HA	26:F1:138:ALA:HA	1.67	0.77
8:f2:95:ARG:CG	21:i2:1289:U:OP1	2.30	0.77
13:M2:91:LEU:HD13	21:i2:1284:A:N6	1.99	0.77
21:i2:497:C:N4	21:i2:505:G:O6	2.18	0.77
20:e3:45:VAL:HG12	21:i3:535:G:C4'	1.92	0.77
8:f4:96:LYS:HB3	21:i4:1307:U:C4	2.20	0.77
23:B4:34:LYS:HA	23:B4:43:ASN:HA	1.67	0.77
26:F4:137:GLN:HA	26:F4:203:ASN:CB	2.14	0.77
27:H4:72:PHE:HB3	27:H4:76:GLN:HE21	1.50	0.77
21:i5:528:A:N1	21:i5:558:G:N1	2.33	0.77
33:R5:58:MET:HA	33:R5:61:ILE:HG12	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:j5:22:GLN:HA	35:j5:25:LYS:HG3	1.65	0.77
26:F6:127:ARG:HB3	26:F6:128:ILE:CG1	2.15	0.77
26:F6:137:GLN:CG	26:F6:204:ARG:C	2.58	0.77
28:I6:48:VAL:HG11	28:I6:54:LYS:HD3	1.64	0.77
31:P6:15:PHE:CE2	31:P6:112:ILE:HD13	2.19	0.77
37:I4:180:GLU:CA	37:I4:181:LYS:HB3	2.14	0.77
8:f1:105:TYR:CD1	8:f1:131:PHE:CE2	2.73	0.77
21:i1:61:A:N1	21:i1:334:C:C2'	2.47	0.77
21:i1:1751:C:H42	21:i1:1781:A:H2	1.27	0.77
8:f2:97:LYS:HG3	21:i2:1288:U:OP2	1.83	0.77
8:f2:105:TYR:CD1	8:f2:131:PHE:CE2	2.73	0.77
23:B2:34:LYS:HA	23:B2:43:ASN:HA	1.67	0.77
11:G3:149:LYS:HB2	11:G3:149:LYS:HZ2	1.47	0.77
33:R3:72:LYS:O	33:R3:74:GLN:N	2.18	0.77
7:d4:21:CYS:O	29:K4:65:ARG:NH1	2.17	0.77
8:f4:95:ARG:HD2	21:i4:1289:U:P	2.23	0.77
21:i4:1849:G:H5''	37:I4:146:ARG:HH22	0.95	0.77
10:C5:65:LYS:NZ	10:C5:280:VAL:HB	1.98	0.77
14:N5:126:ALA:O	14:N5:130:LYS:HG3	1.83	0.77
23:B5:34:LYS:HA	23:B5:43:ASN:HA	1.67	0.77
31:P5:119:PHE:CD1	34:S5:119:ALA:CB	2.58	0.77
8:f6:96:LYS:HB3	21:i6:1307:U:C4	2.19	0.77
12:J6:173:VAL:HG11	21:i6:560:A:C5'	2.07	0.77
14:N6:148:ALA:H	14:N6:149:LEU:CB	1.94	0.77
21:i6:191:A:H62	21:i6:209:A:H1'	1.49	0.77
26:F6:127:ARG:HB3	26:F6:128:ILE:CA	2.14	0.77
34:S6:86:ARG:HD2	34:S6:106:LYS:HD3	1.66	0.77
36:k2:7:GLU:OE1	36:k2:177:MET:O	2.03	0.77
36:k2:85:LEU:HD21	36:k2:133:ALA:CB	2.14	0.77
36:k5:83:ARG:NH2	36:k5:175:TRP:O	2.17	0.77
14:N2:137:PRO:HD3	30:L2:154:GLN:CD	2.08	0.77
21:i2:1756:C:N4	21:i2:1776:G:N1	2.32	0.77
27:H2:72:PHE:HB3	27:H2:76:GLN:HE21	1.50	0.77
4:X3:51:VAL:HA	4:X3:72:VAL:HG12	1.65	0.77
8:f3:105:TYR:CE2	8:f3:106:TYR:CZ	2.73	0.77
23:B3:34:LYS:HA	23:B3:43:ASN:HA	1.67	0.77
26:F3:127:ARG:HB3	26:F3:128:ILE:CG1	2.14	0.77
26:F3:137:GLN:HG3	26:F3:204:ARG:H	1.50	0.77
34:S4:86:ARG:HD2	34:S4:106:LYS:HD3	1.66	0.77
13:M5:125:GLU:CB	13:M5:129:LYS:HE3	2.12	0.77
26:F5:137:GLN:HG3	26:F5:204:ARG:H	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1756:C:N4	21:i6:1776:G:N1	2.33	0.77
36:k3:145:VAL:O	36:k3:167:ILE:HG12	1.84	0.77
36:k6:170:LEU:CD1	36:k6:175:TRP:CH2	2.68	0.77
8:f1:96:LYS:HB3	21:i1:1307:U:C4	2.20	0.77
21:i1:1756:C:N4	21:i1:1776:G:N1	2.33	0.77
30:L1:135:SER:O	30:L1:139:ARG:NH1	2.18	0.77
34:S1:108:ARG:NH2	21:i3:1772:C:C2'	2.47	0.77
22:A2:4:ALA:H	22:A2:5:LEU:HA	1.47	0.77
26:F2:127:ARG:HB3	26:F2:128:ILE:CA	2.14	0.77
14:N4:133:ARG:HH22	30:L4:154:GLN:HA	1.49	0.77
26:F4:127:ARG:HB3	26:F4:128:ILE:CA	2.14	0.77
31:P4:15:PHE:CE2	31:P4:112:ILE:HD13	2.19	0.77
31:P4:81:ARG:HB3	31:P4:117:GLY:HA2	1.64	0.77
8:f5:96:LYS:HB3	21:i5:1307:U:C4	2.20	0.77
17:Y5:91:LEU:HB3	17:Y5:96:LEU:HD11	1.67	0.77
30:L5:135:SER:O	30:L5:139:ARG:NH1	2.18	0.77
2:U6:19:ARG:CB	2:U6:118:ASP:O	2.26	0.77
8:f6:105:TYR:CD1	8:f6:131:PHE:CE2	2.72	0.77
14:N6:124:ARG:NH2	21:i6:1024:A:OP2	2.17	0.77
37:l4:180:GLU:HG2	37:l4:181:LYS:HD2	1.65	0.77
37:l5:180:GLU:CA	37:l5:181:LYS:HB3	2.14	0.77
21:i1:316:G:C5	21:i1:335:G:N2	2.53	0.77
21:i1:1622:U:O4	31:P1:81:ARG:NH2	2.18	0.77
33:R1:25:GLY:H	33:R1:31:ASN:HB3	1.48	0.77
8:f2:96:LYS:CB	21:i2:1307:U:C5	2.68	0.77
14:N2:124:ARG:NH2	21:i2:1024:A:OP2	2.18	0.77
21:i3:1236:G:H5''	31:P3:133:ILE:HD12	0.77	0.77
30:L3:135:SER:O	30:L3:139:ARG:NH1	2.18	0.77
19:b4:36:LYS:CB	19:b4:78:SER:OG	2.31	0.77
21:i4:1521:C:N4	34:S4:137:LYS:HD2	2.00	0.77
2:U6:18:HIS:CB	2:U6:117:ALA:HB1	2.15	0.77
5:a6:102:ARG:N	5:a6:102:ARG:HD2	1.98	0.77
36:k3:7:GLU:CD	36:k3:177:MET:HG3	2.10	0.77
37:l1:180:GLU:CA	37:l1:181:LYS:HB3	2.14	0.77
37:l2:115:VAL:CG1	37:l2:116:THR:N	2.16	0.77
37:l5:115:VAL:CG1	37:l5:116:THR:N	2.16	0.77
26:F1:127:ARG:HB3	26:F1:128:ILE:CG1	2.15	0.76
13:M2:28:HIS:HE1	13:M2:116:LYS:HE3	1.48	0.76
21:i2:557:U:O2'	21:i2:558:G:C8	2.37	0.76
21:i2:1521:C:N4	34:S2:137:LYS:HD2	2.00	0.76
14:N3:148:ALA:H	14:N3:149:LEU:CB	1.94	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:191:A:H62	21:i3:209:A:H1'	1.49	0.76
26:F3:137:GLN:CG	26:F3:204:ARG:H	1.98	0.76
21:i4:191:A:H62	21:i4:209:A:H1'	1.49	0.76
21:i4:1174:U:H5''	35:j4:21:ARG:NH2	1.98	0.76
2:U5:19:ARG:CB	2:U5:118:ASP:O	2.26	0.76
8:f5:95:ARG:HD2	21:i5:1289:U:P	2.23	0.76
14:N5:124:ARG:NH2	21:i5:1024:A:OP2	2.17	0.76
26:F5:127:ARG:HB3	26:F5:128:ILE:CG1	2.15	0.76
8:f6:105:TYR:CE2	8:f6:106:TYR:CZ	2.73	0.76
10:C6:202:THR:HG22	12:J6:54:ARG:HD3	1.68	0.76
21:i6:1521:C:N4	34:S6:137:LYS:HD2	2.00	0.76
36:k3:22:ILE:CD1	36:k3:50:VAL:HG21	2.13	0.76
37:l6:115:VAL:HG13	37:l6:116:THR:H	1.49	0.76
31:P1:15:PHE:HZ	31:P1:112:ILE:HD11	1.47	0.76
31:P1:41:GLN:CD	31:P1:84:ILE:HG23	2.10	0.76
14:N2:148:ALA:H	14:N2:149:LEU:CB	1.94	0.76
21:i2:172:U:P	21:i2:315:C:O2'	2.43	0.76
21:i2:1844:U:C4	35:j2:4:LYS:NZ	2.50	0.76
4:X3:91:LEU:HD21	20:e3:6:LEU:HG	1.67	0.76
8:f3:80:ARG:NH2	21:i3:1503:C:O2	2.17	0.76
8:f3:105:TYR:CD1	8:f3:131:PHE:CE2	2.73	0.76
21:i3:733:C:N4	27:H3:149:ASP:CB	2.44	0.76
26:F3:125:SER:HA	26:F3:138:ALA:HA	1.67	0.76
21:i5:1751:C:C4	21:i5:1781:A:H2	2.03	0.76
10:C6:114:LYS:HB2	21:i6:1358:U:OP1	1.85	0.76
36:k5:22:ILE:CD1	36:k5:50:VAL:HG21	2.12	0.76
36:k5:82:LEU:HD13	36:k5:169:TYR:C	2.09	0.76
10:C1:202:THR:HG22	12:J1:54:ARG:HD3	1.67	0.76
11:G1:189:ARG:HD2	21:i1:330:G:C8	2.21	0.76
15:O1:66:ARG:HH22	28:I3:125:LYS:HG3	1.51	0.76
18:Z1:83:LEU:CD2	34:S1:55:ARG:NH2	2.49	0.76
21:i1:316:G:O6	21:i1:335:G:N1	2.19	0.76
21:i1:1775:U:C2'	21:i1:1776:G:O5'	2.30	0.76
27:H1:72:PHE:HB3	27:H1:76:GLN:HE21	1.50	0.76
26:F2:125:SER:HA	26:F2:138:ALA:HA	1.67	0.76
26:F2:137:GLN:CG	26:F2:204:ARG:H	1.98	0.76
34:S2:108:ARG:NH1	21:i4:1774:C:P	2.58	0.76
14:N3:124:ARG:NH2	21:i3:1024:A:OP2	2.18	0.76
22:A3:4:ALA:H	22:A3:5:LEU:HA	1.47	0.76
28:I3:194:GLU:HG3	30:L3:10:TYR:CE2	2.20	0.76
34:S3:34:LYS:HB2	34:S3:100:ALA:HA	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:124:ARG:NH2	21:i4:1024:A:OP2	2.17	0.76
30:L4:135:SER:O	30:L4:139:ARG:NH1	2.18	0.76
2:U5:17:ILE:HG22	2:U5:95:SER:H	1.42	0.76
8:f5:105:TYR:CD1	8:f5:131:PHE:CE2	2.72	0.76
21:i5:1521:C:N4	34:S5:137:LYS:HD2	2.00	0.76
2:U6:17:ILE:HG22	2:U6:95:SER:H	1.42	0.76
22:A6:214:GLU:HG3	33:R6:84:TYR:HE1	0.98	0.76
14:N1:148:ALA:H	14:N1:149:LEU:CB	1.94	0.76
21:i1:1785:C:O2'	21:i1:1786:U:O5'	2.04	0.76
2:U2:18:HIS:CB	2:U2:117:ALA:HB1	2.16	0.76
26:F2:137:GLN:HG3	26:F2:204:ARG:H	1.50	0.76
8:f3:80:ARG:NH2	21:i3:1503:C:O2'	2.17	0.76
21:i4:1172:U:C4'	35:j4:10:MET:HE3	2.14	0.76
26:F4:125:SER:HA	26:F4:138:ALA:HA	1.67	0.76
27:H5:72:PHE:HB3	27:H5:76:GLN:HE21	1.50	0.76
33:R6:77:GLU:O	33:R6:79:GLU:N	2.17	0.76
36:k2:94:HIS:HA	36:k2:133:ALA:C	2.10	0.76
36:k2:170:LEU:HD23	36:k2:171:ASN:CB	2.15	0.76
36:k6:83:ARG:CZ	36:k6:175:TRP:CD2	2.69	0.76
2:U1:17:ILE:HG22	2:U1:95:SER:H	1.42	0.76
15:O1:63:LYS:CE	28:I3:163:GLU:HG3	2.15	0.76
20:e1:39:ASN:CA	20:e1:43:VAL:CG2	2.59	0.76
26:F1:137:GLN:HG3	26:F1:204:ARG:H	1.50	0.76
30:L1:55:TYR:HH	30:L1:116:CYS:HG	1.26	0.76
21:i2:925:G:H1	21:i2:1017:U:H3	1.30	0.76
8:f3:96:LYS:CB	21:i3:1307:U:C5	2.68	0.76
26:F3:182:LYS:CE	21:i6:201:C:OP2	2.33	0.76
10:C4:68:ARG:NH1	10:C4:277:HIS:CA	2.39	0.76
20:e5:45:VAL:HG11	21:i5:535:G:C3'	2.15	0.76
21:i6:1754:G:O6	21:i6:1779:G:N3	2.19	0.76
35:j6:22:GLN:HA	35:j6:25:LYS:HG3	1.66	0.76
36:k6:22:ILE:CD1	36:k6:50:VAL:HG21	2.13	0.76
8:f2:96:LYS:HB3	21:i2:1307:U:C4	2.20	0.76
34:S2:34:LYS:HB2	34:S2:100:ALA:HA	1.68	0.76
21:i4:1756:C:N4	21:i4:1776:G:N1	2.33	0.76
10:C5:68:ARG:HH22	10:C5:276:THR:CA	1.99	0.76
13:M5:91:LEU:CD1	21:i5:1284:A:H62	1.96	0.76
37:l2:180:GLU:HA	37:l2:181:LYS:HB3	1.68	0.76
8:f1:96:LYS:CB	21:i1:1307:U:C5	2.68	0.76
13:M1:40:LYS:HZ2	21:i1:1310:U:C5'	1.82	0.76
21:i1:1828:C:O4'	37:l1:154:CYS:SG	2.43	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F1:137:GLN:CG	26:F1:204:ARG:H	1.98	0.76
31:P1:49:LEU:O	31:P1:50:ARG:NH1	2.18	0.76
21:i2:210:U:H5'	18:Z5:41:ARG:N	2.00	0.76
34:S2:86:ARG:HD2	34:S2:106:LYS:HD3	1.66	0.76
34:S2:108:ARG:CZ	21:i4:1773:C:C6	2.67	0.76
10:C3:145:LYS:HD2	21:i3:1348:G:H5'	1.67	0.76
21:i3:368:U:H3	36:k1:110:ASN:CB	1.99	0.76
8:f4:105:TYR:CD1	8:f4:131:PHE:CE2	2.73	0.76
10:C4:68:ARG:HH22	10:C4:276:THR:CA	1.99	0.76
13:M4:28:HIS:HE1	13:M4:116:LYS:HE3	1.47	0.76
21:i4:1622:U:O4	31:P4:81:ARG:NH2	2.18	0.76
21:i4:1754:G:O6	21:i4:1779:G:N3	2.18	0.76
23:B4:21:VAL:HG23	30:L5:31:GLU:N	2.01	0.76
26:F4:137:GLN:CG	26:F4:204:ARG:H	1.98	0.76
28:I4:92:ARG:HG3	36:k2:9:GLU:OE2	1.86	0.76
35:j4:18:ARG:O	35:j4:22:GLN:HG3	1.84	0.76
8:f5:105:TYR:CE2	8:f5:106:TYR:CZ	2.73	0.76
33:R5:58:MET:HA	33:R5:61:ILE:CG1	2.15	0.76
7:d6:21:CYS:O	29:K6:65:ARG:NH1	2.17	0.76
18:Z6:82:SER:HA	21:i6:1598:G:H8	1.44	0.76
21:i6:690:G:H1	21:i6:738:C:N4	1.83	0.76
26:F6:125:SER:HA	26:F6:138:ALA:HA	1.67	0.76
2:U1:18:HIS:CB	2:U1:117:ALA:HB1	2.16	0.76
8:f1:105:TYR:CE2	8:f1:106:TYR:CZ	2.73	0.76
10:C1:68:ARG:HH22	10:C1:276:THR:CA	1.99	0.76
17:Y1:91:LEU:HB3	17:Y1:96:LEU:HD11	1.68	0.76
20:e1:45:VAL:CG1	21:i1:535:G:C2'	2.64	0.76
22:A1:209:GLU:HB2	22:A1:213:GLU:OE2	1.84	0.76
30:L2:31:GLU:N	23:B5:21:VAL:CG2	2.48	0.76
10:C3:68:ARG:HH22	10:C3:276:THR:CA	1.99	0.76
14:N4:133:ARG:HG3	30:L4:152:LYS:HG3	1.66	0.76
2:U5:18:HIS:CB	2:U5:117:ALA:HB1	2.16	0.76
21:i5:457:C:H5'	21:i5:1801:A:O2'	1.86	0.76
21:i6:877:C:H5'	21:i6:878:G:H5''	1.68	0.76
21:i6:1380:C:C1'	22:A6:110:ASN:HD21	1.99	0.76
30:L6:135:SER:O	30:L6:139:ARG:NH1	2.18	0.76
37:I3:182:TRP:HB2	37:I3:183:PRO:CA	2.15	0.76
8:f1:105:TYR:HH	8:f1:131:PHE:HB3	1.47	0.76
8:f4:105:TYR:CE2	8:f4:106:TYR:CZ	2.73	0.76
10:C4:134:ASN:O	10:C4:167:ARG:NH2	2.19	0.76
11:G4:149:LYS:HB2	11:G4:149:LYS:HZ2	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:66:ARG:HH22	28:I5:125:LYS:HZ2	1.34	0.76
16:W4:111:MET:HE2	16:W4:119:LYS:NZ	2.00	0.76
20:e4:35:ARG:HH12	21:i4:526:A:H5'	1.51	0.76
26:F4:137:GLN:HG3	26:F4:204:ARG:H	1.50	0.76
4:X5:91:LEU:HD21	20:e5:6:LEU:HG	1.67	0.76
18:Z5:46:ASN:CB	18:Z5:80:ARG:HA	2.13	0.76
13:M6:91:LEU:HD13	21:i6:1284:A:N6	1.99	0.76
34:S6:17:ASN:HD22	34:S6:101:ASN:HD21	1.34	0.76
36:k1:94:HIS:CB	36:k1:135:MET:CG	2.63	0.76
36:k2:11:VAL:CG2	36:k2:177:MET:HE1	2.16	0.76
36:k4:68:LEU:CD1	36:k4:174:LEU:CD1	2.59	0.76
37:l3:180:GLU:HA	37:l3:181:LYS:HB3	1.68	0.76
8:f1:96:LYS:HB3	21:i1:1307:U:H5	1.47	0.76
12:J1:162:ARG:NH2	21:i1:583:C:OP1	2.19	0.76
8:f2:105:TYR:CE2	8:f2:106:TYR:CZ	2.73	0.76
20:e2:36:MET:HE3	21:i2:553:U:O5'	1.85	0.76
28:I2:123:ARG:HH22	15:O5:65:ASP:CB	1.99	0.76
21:i3:1300:U:C2	31:P3:51:ARG:NH1	2.38	0.76
21:i3:1521:C:N4	34:S3:137:LYS:HD2	2.01	0.76
21:i3:1622:U:O4	31:P3:81:ARG:NH2	2.18	0.76
22:A4:209:GLU:HB2	22:A4:213:GLU:OE2	1.84	0.76
34:S4:34:LYS:HB2	34:S4:100:ALA:HA	1.68	0.76
8:f5:96:LYS:CB	21:i5:1307:U:C5	2.68	0.76
12:J5:125:HIS:CG	21:i5:526:A:O2'	2.39	0.76
18:Z5:83:LEU:CD2	34:S5:55:ARG:NH2	2.49	0.76
4:X6:91:LEU:HD21	20:e6:6:LEU:HG	1.67	0.76
21:i6:1622:U:O4	31:P6:81:ARG:NH2	2.19	0.76
36:k3:7:GLU:HB3	36:k3:177:MET:SD	2.25	0.76
10:C1:145:LYS:CG	21:i1:1348:G:C5'	2.55	0.75
21:i1:969:U:OP1	21:i1:971:G:C5'	2.33	0.75
21:i1:1143:A:O3'	21:i1:1355:C:N4	2.19	0.75
10:C2:68:ARG:HH22	10:C2:276:THR:CA	1.99	0.75
18:Z2:82:SER:CA	21:i2:1598:G:C2'	2.54	0.75
21:i2:12:U:HO2'	21:i2:1356:G:C2'	1.99	0.75
14:N3:141:TYR:CE1	14:N3:146:ALA:HB2	2.22	0.75
15:O4:66:ARG:HH12	28:I5:125:LYS:HD3	1.51	0.75
21:i4:528:A:C2	21:i4:558:G:C2	2.74	0.75
8:f5:95:ARG:HB3	21:i5:1289:U:P	2.23	0.75
10:C5:134:ASN:O	10:C5:167:ARG:NH2	2.19	0.75
10:C5:202:THR:HG22	12:J5:54:ARG:HD3	1.68	0.75
20:e5:45:VAL:CG1	21:i5:535:G:O3'	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1622:U:O4	31:P5:81:ARG:NH2	2.19	0.75
36:k1:86:HIS:ND1	36:k1:141:HIS:HB3	2.01	0.75
36:k2:170:LEU:CD1	36:k2:175:TRP:CZ2	2.69	0.75
36:k5:10:ASN:CA	36:k5:56:HIS:ND1	2.50	0.75
10:C1:134:ASN:O	10:C1:167:ARG:NH2	2.19	0.75
21:i1:497:C:N4	21:i1:505:G:O6	2.18	0.75
21:i1:526:A:H2	21:i1:560:A:C2	2.03	0.75
28:I1:196:GLU:CD	28:I1:200:ARG:NH2	2.42	0.75
12:J2:122:SER:HB3	21:i2:527:C:OP1	1.86	0.75
16:W3:117:ARG:HH11	16:W3:117:ARG:HG3	1.51	0.75
31:P3:41:GLN:CD	31:P3:84:ILE:HD13	2.10	0.75
17:Y4:91:LEU:HB3	17:Y4:96:LEU:HD11	1.67	0.75
33:R4:58:MET:O	33:R4:61:ILE:HG13	1.86	0.75
4:X5:51:VAL:HA	4:X5:72:VAL:HG12	1.65	0.75
11:G5:65:GLN:NE2	21:i5:1746:U:C1'	2.49	0.75
21:i5:215:G:N7	21:i5:312:G:N1	2.34	0.75
21:i6:368:U:O4	36:k3:110:ASN:O	2.04	0.75
36:k4:10:ASN:CA	36:k4:56:HIS:ND1	2.50	0.75
21:i1:1172:U:P	35:j1:14:LYS:HZ3	2.09	0.75
22:A1:210:ILE:HG13	22:A1:211:GLU:H	1.51	0.75
31:P1:98:ASN:O	31:P1:122:THR:OG1	1.99	0.75
21:i2:837:A:H2'	21:i2:838:G:H4'	1.69	0.75
24:D3:64:ARG:HE	29:K3:95:ARG:CZ	2.00	0.75
11:G4:94:ARG:NH2	21:i4:1737:G:OP1	2.20	0.75
20:e4:39:ASN:HB3	21:i4:552:G:OP1	1.86	0.75
24:D4:64:ARG:HE	29:K4:95:ARG:CZ	2.00	0.75
11:G5:136:LYS:NZ	21:i5:65:C:OP1	2.20	0.75
21:i6:837:A:H2'	21:i6:838:G:H4'	1.69	0.75
21:i6:1615:U:OP2	31:P6:43:ARG:NH2	2.19	0.75
23:B6:34:LYS:HA	23:B6:43:ASN:HA	1.67	0.75
36:k1:11:VAL:HG11	36:k1:180:TYR:CE2	2.18	0.75
36:k2:7:GLU:CB	36:k2:177:MET:SD	2.75	0.75
36:k2:83:ARG:HG2	36:k2:175:TRP:CH2	2.21	0.75
36:k4:170:LEU:HG	36:k4:171:ASN:H	1.49	0.75
10:C1:145:LYS:HG2	21:i1:1348:G:H5'	1.67	0.75
13:M1:40:LYS:HZ3	21:i1:1310:U:C5'	1.80	0.75
21:i1:1521:C:N4	34:S1:137:LYS:HD2	2.00	0.75
21:i1:1757:G:C2	21:i1:1776:G:C6	2.74	0.75
28:I1:161:LEU:CD2	21:i6:969:U:C5	2.70	0.75
21:i2:1622:U:O4	31:P2:81:ARG:NH2	2.18	0.75
14:N3:133:ARG:CD	30:L3:152:LYS:HB3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:837:A:H2'	21:i3:838:G:H4'	1.69	0.75
2:U4:18:HIS:CB	2:U4:117:ALA:HB1	2.16	0.75
8:f4:95:ARG:CG	21:i4:1289:U:OP1	2.30	0.75
20:e4:8:ARG:HH11	20:e4:11:LYS:CD	1.99	0.75
14:N5:148:ALA:CB	14:N5:149:LEU:HA	2.08	0.75
21:i5:739:C:H2'	21:i5:746:C:H42	1.50	0.75
31:P6:45:LEU:HD12	31:P6:49:LEU:HD21	1.66	0.75
30:L1:30:LYS:HE3	23:B6:21:VAL:C	2.07	0.75
17:Y2:91:LEU:HB3	17:Y2:96:LEU:HD11	1.67	0.75
2:U3:19:ARG:HD3	2:U3:119:ALA:C	1.81	0.75
8:f3:95:ARG:HD2	21:i3:1289:U:P	2.23	0.75
12:J3:162:ARG:NH2	21:i3:583:C:OP1	2.19	0.75
33:R3:65:PRO:HB3	33:R3:73:LEU:CD2	2.16	0.75
21:i4:1757:G:C2	21:i4:1776:G:C6	2.74	0.75
22:A4:210:ILE:HG13	22:A4:211:GLU:H	1.51	0.75
8:f6:80:ARG:HD2	21:i6:1509:U:H3	0.75	0.75
11:G6:136:LYS:NZ	21:i6:65:C:OP1	2.20	0.75
14:N6:148:ALA:CB	14:N6:149:LEU:HA	2.08	0.75
36:k2:79:TYR:HD1	36:k2:131:ILE:HG21	1.51	0.75
37:l2:166:ILE:CG2	37:l2:170:PHE:CZ	2.70	0.75
37:l6:166:ILE:CG2	37:l6:170:PHE:CZ	2.70	0.75
21:i1:877:C:H5'	21:i1:878:G:H5''	1.68	0.75
21:i1:969:U:OP1	21:i1:971:G:H5''	1.87	0.75
34:S1:108:ARG:NE	21:i3:1772:C:C2'	2.49	0.75
24:D2:64:ARG:HE	29:K2:95:ARG:CZ	1.99	0.75
31:P2:81:ARG:O	31:P2:117:GLY:N	2.20	0.75
34:S2:17:ASN:HD22	34:S2:101:ASN:HD21	1.34	0.75
8:f3:80:ARG:HD2	21:i3:1509:U:C2	2.16	0.75
8:f3:95:ARG:CD	21:i3:1289:U:P	2.67	0.75
21:i3:696:G:N1	21:i3:734:C:C5'	2.40	0.75
31:P3:15:PHE:CZ	31:P3:17:TYR:HD2	2.04	0.75
31:P3:121:ILE:CD1	31:P3:123:TYR:HE2	1.54	0.75
12:J4:38:ARG:NH2	21:i4:524:U:O4	2.18	0.75
21:i4:497:C:N4	21:i4:505:G:O6	2.18	0.75
30:L4:121:GLN:HB2	30:L4:153:LYS:CG	2.17	0.75
21:i5:1679:A:H2'	26:F5:60:ARG:HD2	1.69	0.75
21:i5:1853:C:C5	35:j5:5:TRP:CZ2	2.74	0.75
31:P5:41:GLN:OE1	31:P5:84:ILE:HG12	1.86	0.75
33:R5:21:TYR:HD2	33:R5:72:LYS:HD2	1.48	0.75
12:J6:162:ARG:NH2	21:i6:583:C:OP1	2.19	0.75
21:i6:192:C:OP2	28:I6:141:ARG:NE	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:85:LEU:HD21	36:k2:133:ALA:HB2	1.68	0.75
36:k4:83:ARG:HH21	36:k4:175:TRP:CD1	1.85	0.75
37:l2:128:VAL:HG12	37:l2:166:ILE:H	1.47	0.75
21:i1:1751:C:N4	21:i1:1781:A:N3	2.32	0.75
30:L1:121:GLN:CG	30:L1:153:LYS:HD2	2.16	0.75
7:d2:21:CYS:O	29:K2:65:ARG:NH1	2.17	0.75
14:N2:141:TYR:CE1	14:N2:146:ALA:HB2	2.21	0.75
21:i2:955:A:O2'	28:I4:160:SER:HB3	1.86	0.75
18:Z3:83:LEU:CD2	34:S3:55:ARG:NH2	2.48	0.75
31:P3:96:VAL:HG22	31:P3:116:LEU:CD1	1.80	0.75
22:A4:147:LEU:O	22:A4:165:ASN:ND2	2.20	0.75
26:F4:137:GLN:CG	26:F4:204:ARG:C	2.60	0.75
21:i5:1174:U:H5''	35:j5:21:ARG:HH22	1.32	0.75
8:f6:80:ARG:CD	21:i6:1509:U:C4	2.69	0.75
10:C6:273:LEU:CB	10:C6:280:VAL:HG11	2.02	0.75
21:i6:1849:G:C5	37:l6:149:ALA:HB3	2.21	0.75
36:k4:83:ARG:NH1	36:k4:175:TRP:CE2	2.50	0.75
21:i1:1174:U:H5''	35:j1:21:ARG:CZ	2.17	0.75
21:i1:1679:A:H2'	26:F1:60:ARG:HD2	1.69	0.75
34:S1:34:LYS:HB2	34:S1:100:ALA:HA	1.68	0.75
10:C2:134:ASN:O	10:C2:167:ARG:NH2	2.19	0.75
22:A2:147:LEU:O	22:A2:165:ASN:ND2	2.20	0.75
21:i3:877:C:H5'	21:i3:878:G:H5''	1.68	0.75
30:L3:154:GLN:NE2	30:L3:154:GLN:O	2.20	0.75
31:P3:81:ARG:O	31:P3:117:GLY:N	2.20	0.75
8:f4:95:ARG:NE	21:i4:1289:U:C5'	2.22	0.75
14:N4:141:TYR:CE1	14:N4:146:ALA:HB2	2.22	0.75
21:i4:1172:U:O5'	35:j4:14:LYS:NZ	2.14	0.75
8:f5:80:ARG:CG	21:i5:1509:U:H3	1.98	0.75
12:J5:162:ARG:NH2	21:i5:583:C:OP1	2.19	0.75
21:i5:190:G:O5'	28:I5:148:LYS:HE2	1.87	0.75
25:E5:125:LYS:NZ	25:E5:225:ILE:O	2.18	0.75
26:F5:137:GLN:CG	26:F5:204:ARG:C	2.60	0.75
34:S5:17:ASN:HD22	34:S5:101:ASN:HD21	1.34	0.75
22:A6:147:LEU:O	22:A6:165:ASN:ND2	2.20	0.75
31:P6:81:ARG:O	31:P6:117:GLY:N	2.20	0.75
36:k5:94:HIS:HB3	36:k5:133:ALA:HB3	1.69	0.75
36:k6:39:TRP:NE1	36:k6:90:PHE:CE1	2.54	0.75
37:l3:166:ILE:CG2	37:l3:170:PHE:CZ	2.70	0.75
37:l6:182:TRP:HB2	37:l6:183:PRO:CA	2.15	0.75
4:X1:91:LEU:HD21	20:e1:6:LEU:HG	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M1:91:LEU:HD13	21:i1:1284:A:N6	1.99	0.75
34:S1:17:ASN:HD22	34:S1:101:ASN:HD21	1.34	0.75
34:S2:108:ARG:NH2	21:i4:1773:C:O4'	2.19	0.75
7:d3:21:CYS:O	29:K3:65:ARG:NH1	2.17	0.75
34:S3:17:ASN:HD22	34:S3:101:ASN:HD21	1.34	0.75
10:C4:202:THR:HG22	12:J4:54:ARG:HD3	1.67	0.75
8:f5:87:THR:CG2	8:f5:90:LYS:NZ	2.38	0.75
21:i6:628:A:N3	24:D6:179:GLN:CD	2.45	0.75
21:i6:1522:A:N6	31:P6:131:PRO:HB3	2.02	0.75
24:D6:64:ARG:HE	29:K6:95:ARG:CZ	2.00	0.75
30:L6:144:LYS:HZ3	30:L6:146:THR:HG21	1.52	0.75
34:S6:34:LYS:HB2	34:S6:100:ALA:HA	1.68	0.75
36:k2:10:ASN:CA	36:k2:56:HIS:ND1	2.50	0.75
36:k6:85:LEU:HD21	36:k6:133:ALA:CB	2.17	0.75
37:l4:180:GLU:HA	37:l4:181:LYS:HB3	1.68	0.75
14:N1:148:ALA:CB	14:N1:149:LEU:HA	2.08	0.74
23:B1:34:LYS:HA	23:B1:43:ASN:HA	1.67	0.74
31:P1:15:PHE:CE2	31:P1:112:ILE:HD11	2.22	0.74
31:P1:81:ARG:O	31:P1:117:GLY:N	2.20	0.74
10:C2:145:LYS:HG3	21:i2:1348:G:H5''	1.67	0.74
2:U3:18:HIS:CB	2:U3:117:ALA:HB1	2.16	0.74
4:X3:46:HIS:HB3	4:X3:101:LEU:HD21	1.69	0.74
20:e3:28:LYS:HB2	21:i3:525:A:OP1	1.86	0.74
2:U4:19:ARG:CB	2:U4:118:ASP:O	2.26	0.74
5:a4:102:ARG:HB2	5:a4:103:PRO:CA	2.17	0.74
21:i4:837:A:H2'	21:i4:838:G:H4'	1.69	0.74
12:J5:125:HIS:HB2	21:i5:526:A:HO2'	1.52	0.74
21:i5:354:U:OP1	30:L5:90:ARG:NH1	2.20	0.74
23:B5:122:GLU:OE2	23:B5:213:ARG:NH1	2.20	0.74
5:a6:102:ARG:HB2	5:a6:103:PRO:CA	2.17	0.74
9:g6:133:ASN:ND2	9:g6:137:VAL:O	2.20	0.74
10:C6:68:ARG:HH22	10:C6:276:THR:CA	1.99	0.74
18:Z6:83:LEU:CD2	34:S6:55:ARG:NH2	2.49	0.74
21:i6:316:G:N1	21:i6:335:G:N1	2.33	0.74
37:l1:182:TRP:HB2	37:l1:183:PRO:CA	2.15	0.74
21:i2:1522:A:N6	31:P2:131:PRO:HB3	2.02	0.74
31:P2:96:VAL:HG22	31:P2:116:LEU:CD1	1.81	0.74
8:f3:80:ARG:CZ	21:i3:1509:U:C4	2.70	0.74
18:Z3:82:SER:CA	21:i3:1598:G:H8	2.00	0.74
21:i3:696:G:C2	21:i3:734:C:H4'	2.21	0.74
10:C4:68:ARG:CD	10:C4:277:HIS:CB	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G4:92:ARG:NH2	21:i4:1738:C:OP1	2.20	0.74
10:C5:68:ARG:CD	10:C5:277:HIS:CB	2.65	0.74
14:N5:141:TYR:CE1	14:N5:146:ALA:HB2	2.21	0.74
24:D5:64:ARG:HE	29:K5:95:ARG:CZ	2.00	0.74
31:P5:16:THR:O	34:S5:91:LYS:O	2.05	0.74
3:V6:4:ASP:HB3	10:C6:174:ILE:HA	1.70	0.74
14:N6:141:TYR:CE1	14:N6:146:ALA:HB2	2.22	0.74
18:Z6:46:ASN:CB	18:Z6:80:ARG:HA	2.13	0.74
36:k4:140:GLN:HE21	36:k4:141:HIS:HE1	1.35	0.74
37:l5:180:GLU:HA	37:l5:181:LYS:HB3	1.68	0.74
10:C1:68:ARG:CD	10:C1:277:HIS:CB	2.65	0.74
14:N1:150:VAL:HG13	14:N1:151:ALA:N	2.02	0.74
14:N2:150:VAL:HG13	14:N2:151:ALA:N	2.02	0.74
18:Z2:88:LEU:CB	18:Z2:109:TYR:OH	2.33	0.74
21:i2:877:C:H5'	21:i2:878:G:H5''	1.68	0.74
22:A2:210:ILE:HG13	22:A2:211:GLU:H	1.51	0.74
10:C3:68:ARG:CD	10:C3:277:HIS:CB	2.65	0.74
10:C3:202:THR:HG22	12:J3:54:ARG:HD3	1.67	0.74
2:U4:17:ILE:HG22	2:U4:18:HIS:H	1.52	0.74
8:f4:96:LYS:CB	21:i4:1307:U:C5	2.68	0.74
12:J4:162:ARG:NH2	21:i4:583:C:OP1	2.19	0.74
14:N4:148:ALA:CB	14:N4:149:LEU:HA	2.08	0.74
31:P4:15:PHE:HZ	31:P4:112:ILE:HD11	1.48	0.74
31:P4:81:ARG:O	31:P4:117:GLY:N	2.20	0.74
12:J5:26:ASP:HB3	20:e5:41:ARG:NH2	2.01	0.74
30:L5:124:ASP:OD2	30:L5:147:LYS:HG3	1.88	0.74
31:P5:81:ARG:O	31:P5:117:GLY:N	2.20	0.74
2:U6:17:ILE:HG22	2:U6:18:HIS:H	1.52	0.74
10:C6:68:ARG:CD	10:C6:277:HIS:CB	2.65	0.74
21:i6:354:U:OP1	30:L6:90:ARG:NH1	2.21	0.74
21:i6:1208:A:N6	21:i6:1209:A:H62	1.85	0.74
21:i6:1351:G:O6	21:i6:1352:G:O6	2.05	0.74
21:i6:1464:C:OP2	33:R6:60:ARG:NH1	2.19	0.74
21:i6:1679:A:H2'	26:F6:60:ARG:HD2	1.69	0.74
36:k1:95:GLN:HB2	36:k1:134:ILE:HD11	1.66	0.74
36:k2:86:HIS:ND1	36:k2:141:HIS:HB3	2.00	0.74
36:k4:95:GLN:CB	36:k4:134:ILE:HD13	2.04	0.74
37:l1:166:ILE:CG2	37:l1:170:PHE:CZ	2.70	0.74
14:N1:131:THR:O	30:L1:152:LYS:HG3	1.85	0.74
24:D1:64:ARG:HE	29:K1:95:ARG:CZ	1.99	0.74
34:S1:108:ARG:NH2	21:i3:1772:C:C3'	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U2:17:ILE:HG22	2:U2:18:HIS:H	1.52	0.74
4:X2:46:HIS:HB3	4:X2:101:LEU:HD21	1.69	0.74
12:J2:162:ARG:NH2	21:i2:583:C:OP1	2.19	0.74
21:i2:354:U:OP1	30:L2:90:ARG:NH1	2.20	0.74
3:V3:4:ASP:HB3	10:C3:174:ILE:HA	1.69	0.74
18:Z3:75:GLU:HG3	21:i6:193:C:OP1	1.87	0.74
27:H3:72:PHE:HB3	27:H3:76:GLN:HE21	1.50	0.74
11:G4:136:LYS:NZ	21:i4:65:C:OP1	2.20	0.74
13:M4:40:LYS:HZ3	21:i4:1310:U:C5'	1.80	0.74
15:O4:66:ARG:NH2	28:I5:125:LYS:NZ	2.36	0.74
2:U5:17:ILE:HG22	2:U5:18:HIS:H	1.52	0.74
5:a5:102:ARG:HB2	5:a5:103:PRO:CA	2.17	0.74
11:G5:66:GLY:CA	21:i5:1745:A:H8	2.00	0.74
21:i5:1173:A:OP1	35:j5:14:LYS:HG2	1.87	0.74
4:X1:46:HIS:HB3	4:X1:101:LEU:HD21	1.70	0.74
8:f1:80:ARG:CZ	21:i1:1509:U:O4	2.35	0.74
18:Z2:41:ARG:HD3	21:i4:211:G:OP1	1.87	0.74
21:i2:1757:G:C2	21:i2:1776:G:C6	2.74	0.74
21:i3:368:U:C4	36:k1:110:ASN:HB2	2.22	0.74
22:A3:210:ILE:HG13	22:A3:211:GLU:H	1.51	0.74
21:i4:1609:C:OP1	34:S4:130:ARG:HB3	1.88	0.74
22:A4:215:GLN:N	22:A4:215:GLN:OE1	2.21	0.74
18:Z5:79:ILE:HG13	18:Z5:80:ARG:H	1.53	0.74
21:i5:837:A:H2'	21:i5:838:G:H4'	1.68	0.74
33:R5:73:LEU:C	33:R5:75:GLU:H	1.95	0.74
21:i6:1208:A:N6	21:i6:1209:A:N6	2.35	0.74
27:H6:72:PHE:HB3	27:H6:76:GLN:HE21	1.50	0.74
36:k1:140:GLN:HE21	36:k1:141:HIS:HE1	1.36	0.74
37:l4:128:VAL:HG12	37:l4:166:ILE:H	1.47	0.74
9:g1:133:ASN:ND2	9:g1:137:VAL:O	2.19	0.74
14:N1:141:TYR:CE1	14:N1:146:ALA:HB2	2.22	0.74
21:i1:837:A:H2'	21:i1:838:G:H4'	1.69	0.74
24:D1:137:VAL:HB	24:D1:185:LYS:HB3	1.69	0.74
26:F1:137:GLN:CG	26:F1:204:ARG:C	2.60	0.74
30:L1:27:GLU:HB2	30:L1:30:LYS:HD2	1.69	0.74
3:V2:4:ASP:HB3	10:C2:174:ILE:HA	1.69	0.74
10:C3:134:ASN:O	10:C3:167:ARG:NH2	2.19	0.74
14:N3:150:VAL:HG13	14:N3:151:ALA:N	2.02	0.74
21:i3:1522:A:N6	31:P3:131:PRO:HB3	2.02	0.74
21:i3:1609:C:OP1	34:S3:130:ARG:HB3	1.88	0.74
15:O4:63:LYS:HZ1	28:I5:163:GLU:CB	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:529:A:C2	21:i4:557:U:O2	2.41	0.74
25:E4:125:LYS:NZ	25:E4:225:ILE:O	2.18	0.74
4:X5:46:HIS:HB3	4:X5:101:LEU:HD21	1.70	0.74
13:M5:91:LEU:HD13	21:i5:1284:A:N6	1.99	0.74
30:L5:124:ASP:CB	30:L5:147:LYS:CG	2.65	0.74
14:N6:29:THR:C	14:N6:31:ASP:H	1.95	0.74
21:i6:493:A:H1'	21:i6:574:A:H5'	1.70	0.74
36:k3:10:ASN:CA	36:k3:56:HIS:ND1	2.50	0.74
37:l1:161:GLU:O	37:l1:161:GLU:HG2	1.88	0.74
37:l4:115:VAL:HG13	37:l4:116:THR:H	1.49	0.74
21:i1:1070:A:OP1	36:k1:18:LYS:HA	1.88	0.74
21:i1:1609:C:OP1	34:S1:130:ARG:HB3	1.88	0.74
28:I1:121:LEU:HD13	15:O6:63:LYS:HZ3	1.52	0.74
10:C2:68:ARG:CD	10:C2:277:HIS:CB	2.65	0.74
10:C2:202:THR:HG22	12:J2:54:ARG:HD3	1.68	0.74
11:G2:189:ARG:HD3	21:i2:330:G:N7	2.03	0.74
21:i2:1777:G:N7	21:i2:1778:C:N4	2.35	0.74
23:B2:24:PRO:CD	30:L4:27:GLU:CB	2.65	0.74
2:U3:17:ILE:HG22	2:U3:18:HIS:H	1.52	0.74
18:Z3:88:LEU:CB	18:Z3:109:TYR:OH	2.33	0.74
21:i4:1777:G:N7	21:i4:1778:C:N4	2.35	0.74
8:f5:80:ARG:CD	21:i5:1509:U:C4	2.57	0.74
10:C5:145:LYS:CG	21:i5:1348:G:H5'	2.17	0.74
21:i5:1609:C:OP1	34:S5:130:ARG:HB3	1.88	0.74
22:A5:210:ILE:HG13	22:A5:211:GLU:H	1.51	0.74
31:P5:15:PHE:HB2	31:P5:109:PRO:HB2	1.70	0.74
33:R5:22:THR:HG22	33:R5:72:LYS:HZ2	1.50	0.74
10:C6:134:ASN:O	10:C6:167:ARG:NH2	2.19	0.74
10:C6:142:LYS:HD3	10:C6:154:ALA:HA	1.68	0.74
17:Y6:91:LEU:HB3	17:Y6:96:LEU:HD11	1.68	0.74
21:i6:1757:G:C2	21:i6:1776:G:C6	2.75	0.74
22:A6:210:ILE:HG13	22:A6:211:GLU:H	1.51	0.74
22:A6:215:GLN:N	22:A6:215:GLN:OE1	2.21	0.74
24:D6:137:VAL:HB	24:D6:185:LYS:HB3	1.69	0.74
36:k1:83:ARG:NH1	36:k1:175:TRP:CZ2	2.56	0.74
36:k3:96:GLN:NE2	36:k3:122:LYS:HG3	2.03	0.74
36:k5:94:HIS:HB2	36:k5:135:MET:HG2	1.68	0.74
36:k5:145:VAL:O	36:k5:167:ILE:HG12	1.88	0.74
21:i1:529:A:C2	21:i1:557:U:H1'	2.23	0.74
22:A1:147:LEU:O	22:A1:165:ASN:ND2	2.20	0.74
33:R1:65:PRO:HB2	33:R1:74:GLN:NE2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R1:69:ILE:HG23	33:R1:70:SER:HA	1.69	0.74
7:d2:56:ASP:OD1	21:i2:1479:G:N2	2.21	0.74
12:J2:38:ARG:NH2	21:i2:524:U:O4	2.21	0.74
21:i2:1852:C:H5	35:j2:5:TRP:CD1	2.06	0.74
22:A2:215:GLN:N	22:A2:215:GLN:OE1	2.21	0.74
13:M3:36:ARG:HE	13:M3:40:LYS:HZ2	1.31	0.74
17:Y3:108:LYS:NZ	21:i3:506:G:OP1	2.21	0.74
22:A3:205:ARG:HG3	22:A3:210:ILE:HG23	1.70	0.74
30:L3:27:GLU:HB2	30:L3:30:LYS:HD2	1.70	0.74
21:i4:316:G:C2	21:i4:335:G:N3	2.55	0.74
21:i4:1696:C:H5'	21:i4:1703:C:H4'	1.70	0.74
18:Z6:79:ILE:HG13	18:Z6:80:ARG:H	1.53	0.74
21:i6:1183:A:H5'	35:j6:11:ARG:HG3	1.69	0.74
31:P6:15:PHE:CE2	31:P6:112:ILE:HD11	2.22	0.74
36:k2:83:ARG:CG	36:k2:175:TRP:HZ3	1.99	0.74
37:l1:180:GLU:CG	37:l1:181:LYS:HD2	2.18	0.74
37:l4:166:ILE:CG2	37:l4:170:PHE:CZ	2.70	0.74
12:J2:133:ARG:NH2	21:i2:581:U:OP1	2.21	0.74
7:d3:56:ASP:OD1	21:i3:1479:G:N2	2.21	0.74
17:Y3:91:LEU:HB3	17:Y3:96:LEU:HD11	1.67	0.74
21:i3:1757:G:C2	21:i3:1776:G:C6	2.75	0.74
21:i4:354:U:OP1	30:L4:90:ARG:NH1	2.21	0.74
21:i4:696:G:H1	21:i4:734:C:H5''	1.52	0.74
30:L4:121:GLN:CB	30:L4:153:LYS:CG	2.66	0.74
31:P4:96:VAL:HG22	31:P4:116:LEU:CD1	1.80	0.74
14:N5:129:TYR:C	14:N5:134:VAL:HG23	2.04	0.74
22:A5:147:LEU:O	22:A5:165:ASN:ND2	2.20	0.74
23:B5:88:THR:OG1	23:B5:96:CYS:SG	2.46	0.74
4:X6:46:HIS:HB3	4:X6:101:LEU:HD21	1.70	0.74
8:f6:80:ARG:NH2	21:i6:1503:C:C1'	2.50	0.74
17:Y6:108:LYS:NZ	21:i6:506:G:OP1	2.21	0.74
21:i6:1609:C:OP1	34:S6:130:ARG:HB3	1.88	0.74
36:k2:11:VAL:HG21	36:k2:177:MET:HE1	1.67	0.74
36:k2:96:GLN:NE2	36:k2:122:LYS:HG3	2.03	0.74
36:k4:85:LEU:CD2	36:k4:133:ALA:HB2	2.15	0.74
36:k5:83:ARG:HG3	36:k5:175:TRP:CE3	2.23	0.74
37:l5:161:GLU:HG2	37:l5:161:GLU:O	1.88	0.74
21:i1:1522:A:N6	31:P1:131:PRO:HB3	2.02	0.74
21:i1:1750:C:C2	21:i1:1784:G:O6	2.41	0.74
21:i1:1777:G:N7	21:i1:1778:C:N4	2.35	0.74
15:O2:63:LYS:HZ3	28:I4:121:LEU:HD13	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z2:83:LEU:CD2	34:S2:55:ARG:NH2	2.49	0.74
21:i2:187:G:N2	21:i2:213:G:H1'	2.03	0.74
31:P2:15:PHE:HZ	31:P2:112:ILE:HD11	1.48	0.74
5:a3:102:ARG:HB2	5:a3:103:PRO:CA	2.17	0.74
21:i3:185:G:N2	21:i3:214:U:C2	2.56	0.74
21:i3:497:C:N4	21:i3:505:G:O6	2.18	0.74
24:D3:64:ARG:O	29:K3:93:THR:HG21	1.88	0.74
15:O4:63:LYS:HZ1	28:I5:163:GLU:HB2	1.52	0.74
18:Z4:88:LEU:CB	18:Z4:109:TYR:OH	2.33	0.74
31:P4:121:ILE:CD1	31:P4:123:TYR:HE2	1.55	0.74
17:Y5:108:LYS:NZ	21:i5:506:G:OP1	2.21	0.74
13:M6:91:LEU:CD1	21:i6:1284:A:H62	1.96	0.74
14:N6:150:VAL:HG13	14:N6:151:ALA:N	2.02	0.74
21:i6:1236:G:H5''	31:P6:133:ILE:HD12	0.80	0.74
36:k3:143:LEU:O	36:k3:169:TYR:HB3	1.87	0.74
36:k4:82:LEU:CD1	36:k4:169:TYR:HA	2.18	0.74
36:k6:146:GLY:HA2	36:k6:167:ILE:CG1	2.18	0.74
37:l1:180:GLU:HA	37:l1:181:LYS:HB3	1.68	0.74
37:l2:180:GLU:CG	37:l2:181:LYS:HD2	2.18	0.74
37:l5:166:ILE:CG2	37:l5:170:PHE:CZ	2.70	0.74
3:V1:4:ASP:HB3	10:C1:174:ILE:HA	1.69	0.73
30:L1:30:LYS:NZ	23:B6:21:VAL:N	2.32	0.73
26:F2:137:GLN:CG	26:F2:204:ARG:C	2.60	0.73
31:P2:41:GLN:CD	31:P2:84:ILE:HD13	2.13	0.73
8:f4:80:ARG:HD3	21:i4:1327:G:O2'	1.87	0.73
20:e4:45:VAL:HG11	21:i4:535:G:H5'	1.70	0.73
21:i4:594:A:H4'	21:i4:595:U:H5'	1.69	0.73
31:P4:41:GLN:CD	31:P4:84:ILE:CG2	2.61	0.73
7:d5:56:ASP:OD1	21:i5:1479:G:N2	2.21	0.73
21:i5:1208:A:H2'	21:i5:1209:A:C8	2.23	0.73
23:B6:88:THR:OG1	23:B6:96:CYS:SG	2.46	0.73
2:U1:17:ILE:HG22	2:U1:18:HIS:H	1.52	0.73
2:U1:19:ARG:CD	2:U1:119:ALA:O	2.22	0.73
7:d1:56:ASP:OD1	21:i1:1479:G:N2	2.21	0.73
11:G1:136:LYS:NZ	21:i1:65:C:OP1	2.19	0.73
14:N1:35:GLU:O	14:N1:39:LYS:HB2	1.88	0.73
20:e1:43:VAL:HG13	21:i1:551:U:P	2.25	0.73
21:i1:688:U:C2'	21:i1:689:U:OP2	2.36	0.73
26:F1:111:VAL:HG13	26:F1:181:ALA:HB2	1.71	0.73
24:D2:64:ARG:O	29:K2:93:THR:HG21	1.88	0.73
21:i3:1236:G:C5'	31:P3:133:ILE:CD1	2.39	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P3:16:THR:O	34:S3:91:LYS:HA	1.88	0.73
2:U4:17:ILE:CG2	2:U4:94:PRO:CA	2.50	0.73
21:i4:331:C:H2'	21:i4:332:G:C8	2.23	0.73
21:i4:337:C:H2'	21:i4:338:G:C4'	2.05	0.73
21:i4:1522:A:N6	31:P4:131:PRO:HB3	2.02	0.73
24:D4:64:ARG:O	29:K4:93:THR:HG21	1.88	0.73
11:G5:142:ARG:HD2	11:G5:147:LEU:HD11	1.70	0.73
20:e5:45:VAL:CB	21:i5:535:G:C4'	2.39	0.73
21:i5:795:A:H2'	21:i5:796:G:H8	1.54	0.73
21:i5:877:C:H5'	21:i5:878:G:H5''	1.69	0.73
21:i5:1757:G:C2	21:i5:1776:G:C6	2.74	0.73
21:i6:1351:G:C5	21:i6:1352:G:C6	2.75	0.73
30:L6:121:GLN:CG	30:L6:153:LYS:HE3	2.17	0.73
31:P6:16:THR:O	34:S6:91:LYS:HA	1.88	0.73
36:k5:96:GLN:NE2	36:k5:122:LYS:HG3	2.03	0.73
5:a1:102:ARG:HB2	5:a1:103:PRO:CA	2.17	0.73
18:Z1:88:LEU:CB	18:Z1:109:TYR:OH	2.33	0.73
23:B1:88:THR:OG1	23:B1:96:CYS:SG	2.46	0.73
4:X2:91:LEU:HD11	20:e2:6:LEU:HD12	1.68	0.73
18:Z2:79:ILE:HG13	18:Z2:80:ARG:H	1.52	0.73
21:i2:187:G:H4'	21:i2:300:U:H5''	1.69	0.73
22:A2:205:ARG:HG3	22:A2:210:ILE:HG23	1.70	0.73
11:G3:136:LYS:NZ	21:i3:65:C:OP1	2.19	0.73
21:i3:354:U:OP1	30:L3:90:ARG:NH1	2.21	0.73
21:i3:1689:C:C3'	21:i3:1690:U:P	2.77	0.73
23:B3:122:GLU:OE2	23:B3:213:ARG:NH1	2.21	0.73
18:Z4:75:GLU:HG2	21:i5:193:C:H5'	1.69	0.73
21:i4:1829:G:P	37:l4:126:LYS:HE3	2.27	0.73
21:i4:1842:C:P	35:j4:2:ARG:HH21	2.12	0.73
11:G5:66:GLY:CA	21:i5:1745:A:C8	2.72	0.73
14:N5:150:VAL:HG13	14:N5:151:ALA:N	2.02	0.73
21:i5:1208:A:C6	21:i5:1209:A:N6	2.56	0.73
21:i6:316:G:N2	21:i6:335:G:C5	2.55	0.73
21:i6:1351:G:N1	21:i6:1352:G:C6	2.55	0.73
36:k2:7:GLU:HB2	36:k2:177:MET:HG3	1.69	0.73
37:l6:180:GLU:CG	37:l6:181:LYS:HD2	2.18	0.73
8:f1:87:THR:CG2	8:f1:90:LYS:NZ	2.38	0.73
17:Y1:113:ARG:HH12	8:f2:111:ASN:HA	1.51	0.73
30:L1:125:ILE:HB	30:L1:146:THR:O	1.89	0.73
31:P1:16:THR:O	34:S1:91:LYS:HA	1.88	0.73
5:a2:99:PRO:HB2	5:a2:101:PHE:CD2	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:137:VAL:HB	24:D2:185:LYS:HB3	1.70	0.73
31:P2:96:VAL:HG21	31:P2:116:LEU:HD11	1.59	0.73
12:J3:133:ARG:NH2	21:i3:581:U:OP1	2.21	0.73
20:e3:28:LYS:CB	21:i3:525:A:OP1	2.37	0.73
22:A3:147:LEU:O	22:A3:165:ASN:ND2	2.20	0.73
18:Z4:83:LEU:CD2	34:S4:55:ARG:NH2	2.49	0.73
21:i4:1679:A:H2'	26:F4:60:ARG:HD2	1.69	0.73
23:B4:88:THR:OG1	23:B4:96:CYS:SG	2.46	0.73
21:i5:1522:A:N6	31:P5:131:PRO:HB3	2.02	0.73
31:P5:45:LEU:HD11	31:P5:49:LEU:HD21	1.69	0.73
21:i6:1173:A:OP1	35:j6:17:ARG:CZ	2.36	0.73
21:i6:1777:G:N7	21:i6:1778:C:N4	2.35	0.73
36:k4:83:ARG:HH22	36:k4:175:TRP:CD1	1.80	0.73
36:k4:83:ARG:NE	36:k4:175:TRP:CE3	2.57	0.73
37:l4:180:GLU:CG	37:l4:181:LYS:HD2	2.18	0.73
37:l5:126:LYS:HA	37:l5:168:GLY:HA2	1.70	0.73
17:Y1:20:ARG:NH1	17:Y1:74:MET:SD	2.62	0.73
5:a2:102:ARG:HB2	5:a2:103:PRO:CA	2.17	0.73
8:f2:105:TYR:HH	8:f2:131:PHE:CB	1.86	0.73
21:i2:187:G:C6	21:i2:213:G:C2	2.77	0.73
21:i2:383:G:H21	30:L2:133:PRO:HG2	1.54	0.73
23:B2:88:THR:OG1	23:B2:96:CYS:SG	2.46	0.73
21:i3:383:G:H21	30:L3:133:PRO:HG2	1.54	0.73
26:F3:137:GLN:CG	26:F3:204:ARG:C	2.60	0.73
16:W4:51:GLU:HG3	19:b4:8:LEU:HD11	1.70	0.73
20:e4:39:ASN:ND2	21:i4:552:G:OP1	2.21	0.73
22:A4:205:ARG:HG3	22:A4:210:ILE:HG23	1.70	0.73
31:P4:41:GLN:CD	31:P4:84:ILE:HD13	2.12	0.73
13:M5:28:HIS:HE1	13:M5:116:LYS:HE3	1.48	0.73
21:i5:211:G:N7	21:i5:212:C:N4	2.35	0.73
21:i5:1777:G:N7	21:i5:1778:C:N4	2.35	0.73
16:W6:51:GLU:HG3	19:b6:8:LEU:HD11	1.70	0.73
21:i6:1750:C:O2	21:i6:1784:G:O6	2.05	0.73
24:D6:64:ARG:HE	29:K6:95:ARG:NH2	1.86	0.73
24:D6:64:ARG:CG	29:K6:95:ARG:NH2	2.52	0.73
31:P6:15:PHE:HZ	31:P6:112:ILE:HD11	1.48	0.73
36:k1:96:GLN:NE2	36:k1:122:LYS:HG3	2.03	0.73
36:k5:94:HIS:CB	36:k5:133:ALA:O	2.36	0.73
36:k6:145:VAL:O	36:k6:167:ILE:CB	2.35	0.73
37:l2:126:LYS:HA	37:l2:168:GLY:HA2	1.70	0.73
8:f1:100:LEU:HG	21:i1:1285:G:C4'	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:795:A:H2'	21:i1:796:G:H8	1.53	0.73
22:A1:205:ARG:HG3	22:A1:210:ILE:HG23	1.70	0.73
22:A1:214:GLU:CG	33:R1:84:TYR:CD1	2.61	0.73
23:B1:122:GLU:OE2	23:B1:213:ARG:NH1	2.21	0.73
21:i2:368:U:C2	36:k5:109:ALA:CB	2.71	0.73
21:i2:594:A:H4'	21:i2:595:U:H5'	1.69	0.73
21:i2:696:G:O6	21:i2:734:C:H5''	1.87	0.73
14:N3:35:GLU:O	14:N3:39:LYS:HB2	1.88	0.73
4:X4:46:HIS:HB3	4:X4:101:LEU:HD21	1.70	0.73
3:V5:4:ASP:HB3	10:C5:174:ILE:HA	1.69	0.73
12:J5:133:ARG:NH2	21:i5:581:U:OP1	2.21	0.73
14:N5:35:GLU:O	14:N5:39:LYS:HB2	1.89	0.73
14:N5:133:ARG:HB2	30:L5:152:LYS:HG3	1.68	0.73
36:k4:170:LEU:HD23	36:k4:171:ASN:CB	2.19	0.73
36:k5:140:GLN:HE21	36:k5:141:HIS:HE1	1.35	0.73
37:l3:161:GLU:HG2	37:l3:161:GLU:O	1.88	0.73
2:U1:17:ILE:CG2	2:U1:94:PRO:CA	2.50	0.73
11:G1:142:ARG:HD2	11:G1:147:LEU:HD11	1.70	0.73
22:A1:214:GLU:HG3	33:R1:84:TYR:HE1	0.97	0.73
28:I1:200:ARG:HA	21:i6:970:G:H22	1.53	0.73
28:I1:203:LYS:HD3	21:i6:968:U:OP2	1.87	0.73
21:i2:1609:C:OP1	34:S2:130:ARG:HB3	1.88	0.73
23:B2:122:GLU:OE2	23:B2:213:ARG:NH1	2.21	0.73
17:Y3:20:ARG:NH1	17:Y3:74:MET:SD	2.62	0.73
23:B3:88:THR:OG1	23:B3:96:CYS:SG	2.46	0.73
14:N4:150:VAL:HG13	14:N4:151:ALA:N	2.02	0.73
21:i4:383:G:H21	30:L4:133:PRO:HG2	1.54	0.73
23:B4:32:ASP:HA	23:B4:46:LYS:HA	1.71	0.73
17:Y5:20:ARG:NH1	17:Y5:74:MET:SD	2.62	0.73
20:e5:43:VAL:CB	21:i5:551:U:O2'	2.36	0.73
22:A5:205:ARG:HG3	22:A5:210:ILE:HG23	1.70	0.73
23:B5:32:ASP:HA	23:B5:46:LYS:HA	1.71	0.73
34:S5:34:LYS:HB2	34:S5:100:ALA:HA	1.68	0.73
8:f6:80:ARG:HH22	21:i6:1503:C:C1'	2.02	0.73
10:C6:189:GLY:CA	21:i6:1355:C:H1'	2.18	0.73
23:B6:122:GLU:OE2	23:B6:213:ARG:NH1	2.21	0.73
26:F6:111:VAL:HG13	26:F6:181:ALA:HB2	1.71	0.73
37:l2:148:PHE:CE2	37:l2:156:ALA:HB3	2.24	0.73
37:l6:180:GLU:HA	37:l6:181:LYS:HB3	1.68	0.73
18:Z1:79:ILE:HG13	18:Z1:80:ARG:H	1.53	0.73
21:i1:13:C:H5'	21:i1:1356:G:C1'	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:354:U:OP1	30:L1:90:ARG:NH1	2.21	0.73
23:B1:32:ASP:HA	23:B1:46:LYS:HA	1.71	0.73
28:I1:123:ARG:NH1	15:O6:66:ARG:H	1.87	0.73
8:f2:96:LYS:HB3	21:i2:1307:U:H5	1.47	0.73
17:Y2:108:LYS:NZ	21:i2:506:G:OP1	2.21	0.73
21:i2:493:A:H1'	21:i2:574:A:H5'	1.70	0.73
24:D2:64:ARG:CG	29:K2:95:ARG:NH2	2.52	0.73
31:P2:16:THR:O	34:S2:91:LYS:HA	1.88	0.73
31:P2:45:LEU:CD1	31:P2:49:LEU:HD21	2.17	0.73
16:W3:51:GLU:HG3	19:b3:8:LEU:HD11	1.71	0.73
21:i3:1679:A:H2'	26:F3:60:ARG:HD2	1.69	0.73
21:i3:1777:G:N7	21:i3:1778:C:N4	2.36	0.73
22:A3:215:GLN:N	22:A3:215:GLN:OE1	2.21	0.73
28:I3:205:ARG:O	36:k1:56:HIS:HD2	1.72	0.73
21:i4:877:C:H5'	21:i4:878:G:H5''	1.69	0.73
21:i4:1236:G:H5''	31:P4:133:ILE:CG1	2.18	0.73
24:D4:64:ARG:CG	29:K4:95:ARG:NH2	2.52	0.73
26:F5:111:VAL:HG13	26:F5:181:ALA:HB2	1.70	0.73
21:i6:316:G:N2	21:i6:335:G:C2	2.56	0.73
26:F6:137:GLN:CG	26:F6:204:ARG:N	2.51	0.73
36:k1:82:LEU:HD11	36:k1:169:TYR:CA	2.18	0.73
37:l3:128:VAL:HA	37:l3:166:ILE:O	1.89	0.73
37:l6:126:LYS:HA	37:l6:168:GLY:HA2	1.70	0.73
37:l6:128:VAL:HA	37:l6:166:ILE:O	1.89	0.73
19:b1:34:ASP:HA	19:b1:45:THR:HA	1.71	0.73
21:i1:968:U:C4'	21:i1:972:A:H1'	2.18	0.73
21:i1:1300:U:C2	31:P1:51:ARG:NH1	2.38	0.73
28:I1:206:LYS:O	36:k6:12:SER:OG	2.07	0.73
8:f2:100:LEU:HG	21:i2:1285:G:C4'	2.19	0.73
16:W2:51:GLU:HG3	19:b2:8:LEU:HD11	1.71	0.73
21:i2:61:A:C2	21:i2:334:C:O2'	2.36	0.73
21:i2:187:G:C4	21:i2:213:G:N2	2.57	0.73
21:i2:1849:G:N1	37:l2:149:ALA:HB1	2.03	0.73
2:U3:17:ILE:HG22	2:U3:95:SER:H	1.42	0.73
21:i3:795:A:H2'	21:i3:796:G:H8	1.54	0.73
7:d4:56:ASP:OD1	21:i4:1479:G:N2	2.21	0.73
14:N4:10:GLY:HA2	21:i4:1130:G:H4'	1.71	0.73
17:Y4:20:ARG:NH1	17:Y4:74:MET:SD	2.62	0.73
21:i4:556:U:H1'	21:i4:557:U:C5	2.24	0.73
21:i4:1183:A:P	35:j4:15:ARG:HH12	2.05	0.73
24:D4:137:VAL:HB	24:D4:185:LYS:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P4:41:GLN:OE1	31:P4:84:ILE:CD1	2.37	0.73
14:N5:148:ALA:H	14:N5:149:LEU:CB	1.94	0.73
21:i5:1236:G:C5'	31:P5:133:ILE:CD1	2.27	0.73
21:i5:1852:C:O5'	35:j5:5:TRP:HD1	1.71	0.73
22:A5:215:GLN:N	22:A5:215:GLN:OE1	2.21	0.73
30:L5:124:ASP:HB2	30:L5:147:LYS:CG	2.18	0.73
34:S5:4:VAL:HG23	34:S5:58:GLU:OE1	1.88	0.73
20:e6:43:VAL:CG1	21:i6:551:U:O2'	2.36	0.73
22:A6:205:ARG:HG3	22:A6:210:ILE:HG23	1.70	0.73
36:k3:95:GLN:HB2	36:k3:134:ILE:HD11	1.68	0.73
36:k5:83:ARG:HG2	36:k5:175:TRP:CE3	2.23	0.73
36:k6:96:GLN:NE2	36:k6:122:LYS:HG3	2.03	0.73
37:l2:182:TRP:HB2	37:l2:183:PRO:CA	2.15	0.73
37:l3:126:LYS:HA	37:l3:168:GLY:HA2	1.71	0.73
8:f1:105:TYR:CD1	8:f1:131:PHE:CZ	2.77	0.73
15:O1:63:LYS:HE3	28:I3:163:GLU:HG3	1.70	0.73
21:i1:383:G:H21	30:L1:133:PRO:HG2	1.53	0.73
31:P2:41:GLN:OE1	31:P2:84:ILE:HG12	1.89	0.73
5:a3:101:PHE:HB3	5:a3:102:ARG:NE	2.04	0.73
24:D3:64:ARG:CG	29:K3:95:ARG:NH2	2.52	0.73
34:S3:4:VAL:HG23	34:S3:58:GLU:OE1	1.89	0.73
3:V4:4:ASP:HB3	10:C4:174:ILE:HA	1.69	0.73
4:X4:91:LEU:HD23	20:e4:9:ALA:HB2	1.71	0.73
34:S4:17:ASN:HD22	34:S4:101:ASN:HD21	1.34	0.73
8:f5:95:ARG:CG	21:i5:1289:U:OP1	2.30	0.73
21:i5:1300:U:C2	31:P5:51:ARG:NH1	2.38	0.73
24:D5:64:ARG:O	29:K5:93:THR:HG21	1.88	0.73
5:a6:101:PHE:HB3	5:a6:102:ARG:NE	2.04	0.73
10:C6:144:SER:HA	21:i6:1349:G:OP1	1.89	0.73
21:i6:368:U:O2'	36:k3:104:PHE:HD1	1.51	0.73
21:i6:594:A:H4'	21:i6:595:U:H5'	1.69	0.73
21:i6:1378:A:OP2	22:A6:132:GLN:CD	2.32	0.73
36:k5:92:LEU:HD21	36:k5:131:ILE:CB	2.10	0.73
5:a1:99:PRO:HB2	5:a1:101:PHE:CD2	2.23	0.72
17:Y1:108:LYS:NZ	21:i1:506:G:OP1	2.21	0.72
18:Z1:46:ASN:CB	18:Z1:80:ARG:HA	2.13	0.72
21:i1:594:A:H4'	21:i1:595:U:H5'	1.69	0.72
21:i1:1842:C:OP2	35:j1:4:LYS:HB3	1.89	0.72
24:D1:64:ARG:O	29:K1:93:THR:HG21	1.88	0.72
21:i2:795:A:H2'	21:i2:796:G:H8	1.53	0.72
34:S2:4:VAL:HG23	34:S2:58:GLU:OE1	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:111:VAL:HG13	26:F4:181:ALA:HB2	1.71	0.72
11:G5:75:LEU:HD22	21:i5:1791:A:H4'	1.68	0.72
14:N5:129:TYR:C	14:N5:134:VAL:HG22	1.99	0.72
21:i5:337:C:O2'	21:i5:339:A:OP1	2.06	0.72
21:i5:1750:C:OP2	21:i5:1781:A:N6	2.23	0.72
24:D5:64:ARG:HE	29:K5:95:ARG:NH2	1.86	0.72
31:P5:110:GLU:HB3	34:S5:117:ILE:HD11	1.71	0.72
11:G6:142:ARG:HD2	11:G6:147:LEU:HD11	1.70	0.72
14:N6:35:GLU:O	14:N6:39:LYS:HB2	1.89	0.72
18:Z6:88:LEU:CB	18:Z6:109:TYR:OH	2.34	0.72
21:i6:12:U:O4'	21:i6:1357:A:O4'	2.07	0.72
21:i6:628:A:C2	24:D6:179:GLN:HG3	2.24	0.72
37:l1:128:VAL:HA	37:l1:166:ILE:O	1.89	0.72
37:l5:180:GLU:CG	37:l5:181:LYS:HD2	2.18	0.72
13:M1:125:GLU:CB	13:M1:129:LYS:HE3	2.12	0.72
21:i1:1069:U:C4'	36:k1:16:GLN:HB3	2.19	0.72
21:i1:1210:G:H1	21:i1:1689:C:H42	1.37	0.72
21:i2:12:U:O2'	21:i2:1356:G:O2'	2.02	0.72
26:F2:123:GLU:HG3	26:F2:200:ALA:HB2	1.71	0.72
8:f3:105:TYR:CD1	8:f3:131:PHE:CZ	2.76	0.72
10:C3:145:LYS:HG3	21:i3:1348:G:C5'	2.19	0.72
21:i3:594:A:H4'	21:i3:595:U:H5'	1.69	0.72
22:A3:177:MET:SD	22:A3:180:ARG:NH2	2.62	0.72
4:X4:61:GLN:CD	21:i4:1824:A:H8	1.94	0.72
5:a4:101:PHE:HB3	5:a4:102:ARG:NE	2.04	0.72
10:C4:68:ARG:HH22	10:C4:276:THR:C	1.97	0.72
18:Z4:79:ILE:HG13	18:Z4:80:ARG:H	1.53	0.72
21:i4:211:G:N7	21:i4:212:C:N4	2.37	0.72
21:i4:1550:G:H3'	21:i4:1579:A:H61	1.54	0.72
24:D5:137:VAL:HB	24:D5:185:LYS:HB3	1.69	0.72
35:j5:8:LYS:HD3	35:j5:12:ARG:HH21	1.55	0.72
12:J1:133:ARG:NH2	21:i1:581:U:OP1	2.21	0.72
14:N1:10:GLY:HA2	21:i1:1130:G:H4'	1.71	0.72
21:i1:969:U:O5'	21:i1:971:G:C5'	2.37	0.72
24:D1:64:ARG:HE	29:K1:95:ARG:NH2	1.86	0.72
16:W2:37:PHE:HE1	16:W2:103:VAL:HG21	1.55	0.72
18:Z2:46:ASN:CB	18:Z2:80:ARG:HA	2.13	0.72
21:i2:1784:G:H2'	21:i2:1784:G:N3	2.03	0.72
14:N3:114:ARG:NH1	21:i3:996:A:OP1	2.21	0.72
18:Z3:79:ILE:HG13	18:Z3:80:ARG:H	1.53	0.72
11:G4:142:ARG:HD2	11:G4:147:LEU:HD11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:133:ARG:NH2	30:L4:154:GLN:CA	2.51	0.72
21:i4:1173:A:P	35:j4:14:LYS:HD3	2.29	0.72
8:f5:95:ARG:NE	21:i5:1289:U:C5'	2.22	0.72
14:N5:10:GLY:HA2	21:i5:1130:G:H4'	1.71	0.72
21:i5:368:U:N3	36:k4:109:ALA:CB	2.51	0.72
21:i5:594:A:H4'	21:i5:595:U:H5'	1.69	0.72
21:i5:1069:U:OP2	36:k5:18:LYS:NZ	2.21	0.72
5:a6:99:PRO:HB2	5:a6:101:PHE:CD2	2.24	0.72
8:f6:105:TYR:CD1	8:f6:131:PHE:CZ	2.76	0.72
12:J6:133:ARG:NH2	21:i6:581:U:OP1	2.21	0.72
21:i6:127:C:H1'	21:i6:129:C:H5'	1.71	0.72
21:i6:1376:A:H3'	22:A6:102:ARG:NE	2.03	0.72
36:k1:83:ARG:NH2	36:k1:175:TRP:CE2	2.57	0.72
37:l4:148:PHE:CE2	37:l4:156:ALA:HB3	2.24	0.72
37:l5:133:GLY:O	37:l5:134:LEU:HG	1.90	0.72
8:f1:95:ARG:CG	21:i1:1289:U:OP1	2.30	0.72
8:f1:95:ARG:O	21:i1:1288:U:P	2.48	0.72
13:M1:121:LYS:O	13:M1:125:GLU:HB2	1.90	0.72
14:N1:114:ARG:NH1	21:i1:996:A:OP1	2.21	0.72
19:b1:37:CYS:HA	19:b1:63:LEU:CD2	2.19	0.72
12:J2:122:SER:CB	21:i2:527:C:OP1	2.38	0.72
14:N2:10:GLY:HA2	21:i2:1130:G:H4'	1.71	0.72
21:i2:1679:A:H2'	26:F2:60:ARG:HD2	1.69	0.72
23:B2:32:ASP:HA	23:B2:46:LYS:HA	1.71	0.72
11:G3:189:ARG:NH2	21:i3:331:C:N4	2.36	0.72
21:i3:127:C:H1'	21:i3:129:C:H5'	1.71	0.72
21:i3:493:A:H1'	21:i3:574:A:H5'	1.70	0.72
21:i3:696:G:H22	21:i3:734:C:C5'	2.02	0.72
24:D3:137:VAL:HB	24:D3:185:LYS:HB3	1.69	0.72
26:F3:123:GLU:HG3	26:F3:200:ALA:HB2	1.71	0.72
30:L3:77:VAL:HA	30:L3:88:ILE:HG22	1.71	0.72
8:f4:100:LEU:HG	21:i4:1285:G:C4'	2.19	0.72
8:f4:105:TYR:CD1	8:f4:131:PHE:CZ	2.76	0.72
12:J4:35:TYR:O	12:J4:111:GLN:NE2	2.23	0.72
19:b4:37:CYS:O	19:b4:77:CYS:CB	2.38	0.72
21:i4:1253:A:OP2	21:i4:1526:G:N2	2.23	0.72
8:f5:95:ARG:O	21:i5:1288:U:P	2.48	0.72
16:W5:51:GLU:HG3	19:b5:8:LEU:HD11	1.70	0.72
21:i5:1208:A:N6	21:i5:1209:A:N6	2.37	0.72
31:P5:15:PHE:HZ	31:P5:112:ILE:HD11	1.51	0.72
13:M6:121:LYS:O	13:M6:125:GLU:HB2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N6:37:ILE:HG23	14:N6:50:ILE:HG21	1.71	0.72
16:W6:37:PHE:HE1	16:W6:103:VAL:HG21	1.55	0.72
20:e6:45:VAL:HG21	21:i6:534:G:O3'	1.86	0.72
21:i6:795:A:H2'	21:i6:796:G:H8	1.53	0.72
34:S6:4:VAL:HG23	34:S6:58:GLU:OE1	1.88	0.72
36:k2:94:HIS:CG	36:k2:135:MET:CG	2.73	0.72
36:k2:108:GLY:C	36:k2:166:ASN:CG	2.47	0.72
36:k2:170:LEU:HD21	36:k2:171:ASN:CG	2.14	0.72
36:k6:33:PHE:CE1	36:k6:92:LEU:HD11	2.23	0.72
37:l1:148:PHE:CE2	37:l1:156:ALA:HB3	2.24	0.72
37:l2:133:GLY:O	37:l2:134:LEU:HG	1.90	0.72
37:l2:161:GLU:O	37:l2:161:GLU:HG2	1.88	0.72
21:i1:493:A:H1'	21:i1:574:A:H5'	1.70	0.72
21:i1:1550:G:H3'	21:i1:1579:A:H61	1.54	0.72
21:i1:1751:C:C6	21:i1:1782:G:O6	2.42	0.72
21:i1:1828:C:O2'	37:l1:155:GLY:N	2.23	0.72
30:L1:30:LYS:HE2	23:B6:21:VAL:O	1.88	0.72
11:G2:136:LYS:NZ	21:i2:65:C:OP1	2.20	0.72
20:e2:45:VAL:HB	21:i2:535:G:C4'	2.18	0.72
23:B2:22:VAL:N	30:L4:31:GLU:OE1	2.22	0.72
30:L2:77:VAL:HA	30:L2:88:ILE:HG22	1.71	0.72
5:a3:99:PRO:HB2	5:a3:101:PHE:CD2	2.23	0.72
23:B3:32:ASP:HA	23:B3:46:LYS:HA	1.71	0.72
31:P3:119:PHE:CD1	34:S3:120:HIS:N	2.44	0.72
5:a4:99:PRO:HB2	5:a4:101:PHE:CD2	2.23	0.72
8:f4:95:ARG:O	21:i4:1288:U:P	2.47	0.72
21:i4:127:C:H1'	21:i4:129:C:H5'	1.72	0.72
30:L4:121:GLN:HB2	30:L4:153:LYS:HG3	1.70	0.72
31:P4:15:PHE:CE2	31:P4:112:ILE:HD11	2.22	0.72
31:P4:16:THR:O	34:S4:91:LYS:HA	1.88	0.72
35:j4:8:LYS:HD3	35:j4:12:ARG:HH21	1.54	0.72
8:f5:100:LEU:HG	21:i5:1285:G:C4'	2.19	0.72
8:f5:105:TYR:CD1	8:f5:131:PHE:CZ	2.76	0.72
8:f5:105:TYR:HE2	8:f5:106:TYR:HH	1.36	0.72
10:C5:273:LEU:CB	10:C5:280:VAL:HG11	2.02	0.72
21:i5:1851:A:H5'	35:j5:1:MET:HE3	1.71	0.72
12:J6:35:TYR:O	12:J6:111:GLN:NE2	2.23	0.72
14:N6:114:ARG:NH1	21:i6:996:A:OP1	2.21	0.72
21:i6:1550:G:H3'	21:i6:1579:A:H61	1.54	0.72
26:F6:123:GLU:HG3	26:F6:200:ALA:HB2	1.71	0.72
36:k3:71:PHE:HZ	36:k3:167:ILE:CG2	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l1:128:VAL:HG12	37:l1:166:ILE:H	1.47	0.72
37:l3:180:GLU:CG	37:l3:181:LYS:HD2	2.18	0.72
21:i1:1172:U:O5'	35:j1:14:LYS:NZ	2.21	0.72
33:R1:57:LEU:HD11	33:R1:66:VAL:CG1	2.20	0.72
2:U2:17:ILE:HG22	2:U2:95:SER:H	1.42	0.72
9:g2:220:ASP:HB2	9:g2:225:LYS:H	1.55	0.72
14:N2:35:GLU:O	14:N2:39:LYS:HB2	1.88	0.72
21:i2:127:C:H1'	21:i2:129:C:H5'	1.71	0.72
31:P2:41:GLN:CD	31:P2:84:ILE:CG2	2.63	0.72
8:f3:96:LYS:HB3	21:i3:1307:U:H5	1.47	0.72
8:f3:100:LEU:HG	21:i3:1285:G:C4'	2.19	0.72
14:N4:114:ARG:NH1	21:i4:996:A:OP1	2.21	0.72
17:Y4:108:LYS:NZ	21:i4:506:G:OP1	2.21	0.72
21:i4:11:A:N3	21:i4:1357:A:O2'	2.20	0.72
21:i4:493:A:H1'	21:i4:574:A:H5'	1.70	0.72
5:a5:99:PRO:HB2	5:a5:101:PHE:CD2	2.23	0.72
9:g5:220:ASP:HB2	9:g5:225:LYS:H	1.54	0.72
33:R5:22:THR:CG2	33:R5:72:LYS:NZ	2.53	0.72
10:C6:118:ALA:CB	21:i6:1486:A:O2'	2.37	0.72
14:N6:10:GLY:HA2	21:i6:1130:G:H4'	1.72	0.72
37:l4:126:LYS:HA	37:l4:168:GLY:HA2	1.70	0.72
37:l4:128:VAL:HA	37:l4:166:ILE:O	1.89	0.72
21:i1:12:U:O4'	21:i1:1357:A:C1'	2.37	0.72
22:A1:215:GLN:N	22:A1:215:GLN:OE1	2.21	0.72
26:F1:137:GLN:CG	26:F1:204:ARG:O	2.35	0.72
8:f2:105:TYR:CD1	8:f2:131:PHE:CZ	2.76	0.72
11:G2:205:GLU:O	11:G2:209:TYR:N	2.23	0.72
21:i3:1648:G:N2	21:i3:1675:A:OP2	2.22	0.72
26:F3:111:VAL:HG13	26:F3:181:ALA:HB2	1.71	0.72
9:g4:220:ASP:HB2	9:g4:225:LYS:H	1.54	0.72
7:d5:32:ARG:NH2	21:i5:1660:C:O2	2.23	0.72
14:N5:37:ILE:HG23	14:N5:50:ILE:HG21	1.71	0.72
9:g6:220:ASP:HB2	9:g6:225:LYS:H	1.55	0.72
26:F6:15:PRO:HD3	32:Q6:57:LEU:HG	1.72	0.72
36:k3:145:VAL:C	36:k3:167:ILE:HB	2.14	0.72
37:l2:115:VAL:HG13	37:l2:116:THR:H	1.49	0.72
8:f1:80:ARG:NH1	21:i1:1509:U:C4	2.58	0.72
11:G1:205:GLU:O	11:G1:209:TYR:N	2.23	0.72
24:D1:64:ARG:CG	29:K1:95:ARG:NH2	2.52	0.72
9:g2:133:ASN:ND2	9:g2:137:VAL:O	2.20	0.72
12:J2:35:TYR:O	12:J2:111:GLN:NE2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y2:20:ARG:NH1	17:Y2:74:MET:SD	2.62	0.72
21:i2:12:U:C1'	21:i2:1357:A:H1'	2.20	0.72
20:e3:25:LYS:HG2	21:i3:554:A:OP1	1.88	0.72
21:i3:1550:G:H3'	21:i3:1579:A:H61	1.54	0.72
14:N4:35:GLU:O	14:N4:39:LYS:HB2	1.89	0.72
23:B4:122:GLU:OE2	23:B4:213:ARG:NH1	2.20	0.72
28:I4:206:LYS:C	36:k2:12:SER:HG	1.98	0.72
4:X5:37:LYS:HE3	21:i5:1811:C:OP1	1.89	0.72
5:a5:101:PHE:HB3	5:a5:102:ARG:NE	2.04	0.72
13:M5:27:ILE:CG2	29:K5:84:HIS:ND1	2.46	0.72
21:i5:1550:G:H3'	21:i5:1579:A:H61	1.54	0.72
8:f6:100:LEU:HG	21:i6:1285:G:C4'	2.19	0.72
17:Y6:20:ARG:NH1	17:Y6:74:MET:SD	2.62	0.72
21:i6:337:C:C2'	21:i6:338:G:H4'	2.13	0.72
31:P6:119:PHE:CD1	34:S6:120:HIS:N	2.43	0.72
36:k3:86:HIS:ND1	36:k3:141:HIS:HB3	2.04	0.72
37:l1:115:VAL:HG13	37:l1:116:THR:H	1.49	0.72
37:l2:128:VAL:HA	37:l2:166:ILE:O	1.89	0.72
37:l4:133:GLY:O	37:l4:134:LEU:HG	1.90	0.72
28:I1:200:ARG:NH1	21:i6:970:G:OP1	2.23	0.72
28:I1:205:ARG:NH1	36:k6:56:HIS:CE1	2.54	0.72
35:j1:8:LYS:HD3	35:j1:12:ARG:HH21	1.54	0.72
21:i2:316:G:C2	21:i2:335:G:C2	2.78	0.72
25:E3:164:LEU:HD12	25:E3:165:GLU:H	1.55	0.72
12:J4:133:ARG:NH2	21:i4:581:U:OP1	2.21	0.72
11:G5:183:ARG:NH1	21:i5:317:C:P	2.63	0.72
11:G5:183:ARG:HH11	21:i5:317:C:P	2.12	0.72
12:J5:35:TYR:O	12:J5:111:GLN:NE2	2.23	0.72
16:W5:37:PHE:HE1	16:W5:103:VAL:HG21	1.55	0.72
24:D5:64:ARG:CG	29:K5:95:ARG:NH2	2.52	0.72
7:d6:56:ASP:OD1	21:i6:1479:G:N2	2.21	0.72
20:e6:43:VAL:HB	21:i6:551:U:O2'	1.89	0.72
25:E6:164:LEU:HD12	25:E6:165:GLU:H	1.55	0.72
36:k2:144:CYS:HB2	36:k2:168:HIS:O	1.88	0.72
36:k4:170:LEU:HD23	36:k4:171:ASN:CG	2.14	0.72
37:l1:126:LYS:HA	37:l1:168:GLY:HA2	1.70	0.72
37:l6:148:PHE:CE2	37:l6:156:ALA:HB3	2.24	0.72
25:E1:101:LEU:HG	25:E1:111:VAL:HA	1.72	0.72
7:d2:32:ARG:NH2	21:i2:1660:C:O2	2.23	0.72
10:C2:273:LEU:CB	10:C2:280:VAL:HG11	2.02	0.72
14:N2:37:ILE:HG23	14:N2:50:ILE:HG21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e2:25:LYS:HD2	21:i2:554:A:H5''	1.70	0.72
21:i2:732:U:H1'	21:i2:733:C:P	2.29	0.72
21:i2:1236:G:H4'	31:P2:132:GLY:O	1.88	0.72
9:g4:133:ASN:ND2	9:g4:137:VAL:O	2.20	0.72
11:G4:205:GLU:O	11:G4:209:TYR:N	2.23	0.72
21:i4:795:A:H2'	21:i4:796:G:H8	1.53	0.72
18:Z5:80:ARG:NH1	34:S5:23:ARG:NE	2.38	0.72
21:i5:493:A:H1'	21:i5:574:A:H5'	1.70	0.72
21:i5:1648:G:N2	21:i5:1675:A:OP2	2.22	0.72
25:E5:164:LEU:HD12	25:E5:165:GLU:H	1.55	0.72
12:J6:38:ARG:NH2	21:i6:524:U:O4	2.23	0.72
36:k1:10:ASN:CA	36:k1:56:HIS:ND1	2.48	0.72
36:k5:33:PHE:CE1	36:k5:131:ILE:CD1	2.71	0.72
36:k5:92:LEU:HD13	36:k5:131:ILE:HG22	1.72	0.72
37:l3:148:PHE:CE2	37:l3:156:ALA:HB3	2.24	0.72
37:l5:164:ILE:HG22	37:l5:165:ILE:H	1.55	0.72
5:a1:48:ALA:HB2	6:c1:64:GLU:OE1	1.88	0.71
21:i1:1842:C:N1	35:j1:4:LYS:NZ	2.32	0.71
30:L1:121:GLN:HG3	30:L1:153:LYS:CD	2.20	0.71
21:i2:1750:C:N3	21:i2:1784:G:O6	2.23	0.71
22:A2:177:MET:SD	22:A2:180:ARG:NH2	2.62	0.71
31:P2:15:PHE:CE2	31:P2:112:ILE:HD11	2.23	0.71
10:C3:145:LYS:HG3	21:i3:1348:G:H5'	1.72	0.71
15:O3:63:LYS:HZ3	28:I6:163:GLU:CB	1.88	0.71
21:i4:1069:U:P	36:k4:18:LYS:HZ3	2.09	0.71
9:g5:133:ASN:ND2	9:g5:137:VAL:O	2.20	0.71
21:i5:497:C:N4	21:i5:505:G:O6	2.18	0.71
30:L5:77:VAL:HA	30:L5:88:ILE:HG22	1.71	0.71
7:d6:32:ARG:NH2	21:i6:1660:C:O2	2.23	0.71
8:f6:95:ARG:O	21:i6:1288:U:P	2.48	0.71
21:i6:739:C:H2'	21:i6:746:C:N4	2.05	0.71
23:B6:32:ASP:HA	23:B6:46:LYS:HA	1.71	0.71
24:D6:64:ARG:O	29:K6:93:THR:HG21	1.88	0.71
26:F6:78:MET:O	26:F6:83:ASN:ND2	2.23	0.71
36:k1:18:LYS:O	36:k1:22:ILE:CG1	2.38	0.71
36:k5:18:LYS:O	36:k5:22:ILE:CG1	2.38	0.71
37:l6:133:GLY:O	37:l6:134:LEU:HG	1.90	0.71
9:g1:220:ASP:HB3	9:g1:223:GLU:HB2	1.72	0.71
21:i1:1648:G:N2	21:i1:1675:A:OP2	2.22	0.71
10:C2:74:LYS:CE	10:C2:272:HIS:CD2	2.72	0.71
21:i2:187:G:N2	21:i2:213:G:N3	2.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:219:U:O2'	28:I2:186:ASP:OD2	2.08	0.71
31:P2:119:PHE:CD1	34:S2:120:HIS:N	2.43	0.71
24:D3:64:ARG:HE	29:K3:95:ARG:NH2	1.87	0.71
26:F3:78:MET:O	26:F3:83:ASN:ND2	2.23	0.71
34:S3:108:ARG:NH2	21:i6:1773:C:C5'	2.53	0.71
11:G5:191:ARG:HE	21:i5:314:U:H5	0.79	0.71
24:D5:64:ARG:CG	29:K5:95:ARG:CZ	2.69	0.71
25:E5:101:LEU:HG	25:E5:111:VAL:HA	1.72	0.71
31:P5:15:PHE:CE2	31:P5:112:ILE:CD1	2.72	0.71
21:i6:383:G:H21	30:L6:133:PRO:HG2	1.54	0.71
33:R6:95:ILE:H	33:R6:96:ILE:HA	1.55	0.71
36:k3:85:LEU:HD23	36:k3:142:ALA:CB	2.21	0.71
36:k3:94:HIS:C	36:k3:133:ALA:O	2.33	0.71
36:k4:2:PHE:HB3	36:k4:168:HIS:CE1	2.16	0.71
36:k6:79:TYR:CD1	36:k6:131:ILE:CD1	2.73	0.71
37:l6:181:LYS:HG3	37:l6:184:GLU:OE2	1.91	0.71
5:a1:101:PHE:HB3	5:a1:102:ARG:NE	2.05	0.71
21:i1:1253:A:OP2	21:i1:1526:G:N2	2.23	0.71
23:B1:33:VAL:HG22	23:B1:96:CYS:HB3	1.72	0.71
26:F1:123:GLU:HG3	26:F1:200:ALA:HB2	1.71	0.71
8:f2:80:ARG:NE	21:i2:1509:U:O4	2.22	0.71
12:J2:4:ALA:N	12:J2:5:ARG:HB2	2.06	0.71
18:Z2:80:ARG:NH1	34:S2:23:ARG:NE	2.38	0.71
21:i2:1173:A:P	35:j2:17:ARG:HH21	2.14	0.71
26:F2:111:VAL:HG13	26:F2:181:ALA:HB2	1.71	0.71
7:d3:32:ARG:NH2	21:i3:1660:C:O2	2.23	0.71
18:Z3:80:ARG:NH1	34:S3:23:ARG:NE	2.38	0.71
21:i3:1696:C:H5'	21:i3:1703:C:H4'	1.72	0.71
24:D3:64:ARG:CG	29:K3:95:ARG:CZ	2.69	0.71
7:d4:32:ARG:NH2	21:i4:1660:C:O2	2.23	0.71
11:G4:147:LEU:C	11:G4:147:LEU:HD13	2.15	0.71
31:P4:15:PHE:HE2	31:P4:112:ILE:HD13	1.55	0.71
11:G5:147:LEU:C	11:G5:147:LEU:HD13	2.15	0.71
14:N5:133:ARG:CG	30:L5:154:GLN:HG2	2.14	0.71
21:i5:383:G:H21	30:L5:133:PRO:HG2	1.54	0.71
21:i5:1852:C:H3'	35:j5:5:TRP:HE1	1.55	0.71
31:P5:119:PHE:CD1	34:S5:120:HIS:N	2.43	0.71
33:R5:22:THR:HG22	33:R5:72:LYS:HZ1	1.51	0.71
33:R5:95:ILE:H	33:R5:96:ILE:HA	1.55	0.71
5:a6:64:LEU:HD12	5:a6:65:PRO:HD2	1.72	0.71
12:J6:173:VAL:HG23	21:i6:561:A:OP2	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1044:G:O6	36:k6:20:SER:OG	2.03	0.71
25:E6:125:LYS:NZ	25:E6:225:ILE:O	2.18	0.71
30:L6:126:VAL:HG23	30:L6:145:VAL:HA	1.71	0.71
36:k3:94:HIS:HB2	36:k3:135:MET:CG	2.15	0.71
36:k4:18:LYS:O	36:k4:22:ILE:CG1	2.38	0.71
37:l5:148:PHE:CE2	37:l5:156:ALA:HB3	2.24	0.71
3:V1:16:LYS:HG2	3:V1:23:ILE:HG22	1.73	0.71
21:i1:12:U:C4'	21:i1:1357:A:O4'	2.39	0.71
8:f2:105:TYR:HE2	8:f2:106:TYR:HH	1.38	0.71
21:i2:1183:A:O3'	35:j2:11:ARG:NH2	2.24	0.71
21:i2:1210:G:H1	21:i2:1689:C:H42	1.39	0.71
24:D2:64:ARG:HE	29:K2:95:ARG:NH2	1.86	0.71
12:J3:35:TYR:O	12:J3:111:GLN:NE2	2.23	0.71
14:N3:10:GLY:HA2	21:i3:1130:G:H4'	1.71	0.71
25:E3:101:LEU:HG	25:E3:111:VAL:HA	1.72	0.71
33:R3:95:ILE:H	33:R3:96:ILE:HA	1.55	0.71
30:L4:126:VAL:HG23	30:L4:145:VAL:HA	1.72	0.71
5:a5:64:LEU:HD12	5:a5:65:PRO:HD2	1.72	0.71
10:C6:118:ALA:HB3	21:i6:1486:A:O2'	1.90	0.71
11:G6:205:GLU:O	11:G6:209:TYR:N	2.23	0.71
32:Q6:4:LYS:HZ2	32:Q6:99:TYR:CB	2.03	0.71
36:k2:18:LYS:O	36:k2:22:ILE:CG1	2.38	0.71
36:k5:83:ARG:HH21	36:k5:175:TRP:C	1.98	0.71
37:l3:133:GLY:O	37:l3:134:LEU:HG	1.90	0.71
7:d1:32:ARG:NH2	21:i1:1660:C:O2	2.23	0.71
12:J1:35:TYR:O	12:J1:111:GLN:NE2	2.23	0.71
21:i1:127:C:H1'	21:i1:129:C:H5'	1.71	0.71
30:L1:121:GLN:HG3	30:L1:153:LYS:HE3	0.78	0.71
34:S1:4:VAL:HG23	34:S1:58:GLU:OE1	1.89	0.71
21:i2:1550:G:H3'	21:i2:1579:A:H61	1.54	0.71
23:B2:24:PRO:HG3	30:L4:27:GLU:HB3	1.73	0.71
23:B2:182:LYS:HG2	23:B2:231:LEU:HD13	1.72	0.71
31:P2:41:GLN:CG	31:P2:84:ILE:HD13	2.20	0.71
31:P2:45:LEU:HD11	31:P2:49:LEU:HD21	1.72	0.71
21:i3:1253:A:OP2	21:i3:1526:G:N2	2.23	0.71
21:i3:1583:C:H5''	21:i3:1584:G:H2'	1.73	0.71
24:D3:157:MET:HE2	24:D3:187:LYS:HD3	1.72	0.71
14:N4:145:THR:O	14:N4:147:SER:N	2.24	0.71
18:Z4:80:ARG:NH1	34:S4:23:ARG:NE	2.39	0.71
26:F4:123:GLU:HG3	26:F4:200:ALA:HB2	1.72	0.71
9:g5:220:ASP:HB3	9:g5:223:GLU:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:205:GLU:O	11:G5:209:TYR:N	2.23	0.71
18:Z5:88:LEU:CB	18:Z5:109:TYR:OH	2.33	0.71
23:B5:182:LYS:HG2	23:B5:231:LEU:HD13	1.72	0.71
26:F5:15:PRO:HD3	32:Q5:57:LEU:HG	1.72	0.71
33:R5:57:LEU:O	33:R5:61:ILE:HG23	1.90	0.71
8:f6:96:LYS:CB	21:i6:1307:U:C5	2.68	0.71
11:G6:92:ARG:NH2	21:i6:1738:C:OP1	2.23	0.71
21:i6:497:C:N4	21:i6:505:G:O6	2.18	0.71
36:k5:85:LEU:CD2	36:k5:145:VAL:HG22	2.21	0.71
37:l3:115:VAL:HG13	37:l3:116:THR:H	1.49	0.71
37:l4:181:LYS:HG3	37:l4:184:GLU:OE2	1.91	0.71
37:l5:128:VAL:HA	37:l5:166:ILE:O	1.89	0.71
10:C1:273:LEU:CB	10:C1:280:VAL:HG11	2.02	0.71
21:i1:1172:U:C5'	35:j1:10:MET:HE3	2.21	0.71
21:i1:1583:C:H5''	21:i1:1584:G:H2'	1.73	0.71
25:E1:164:LEU:HD12	25:E1:165:GLU:H	1.55	0.71
3:V2:16:LYS:HG2	3:V2:23:ILE:HG22	1.73	0.71
23:B2:33:VAL:HG22	23:B2:96:CYS:HB3	1.73	0.71
21:i3:219:U:O2'	28:I3:186:ASP:OD2	2.08	0.71
31:P3:34:MET:O	31:P3:42:ARG:CZ	2.38	0.71
10:C4:202:THR:OG1	10:C4:221:ASP:OD2	2.08	0.71
13:M4:121:LYS:O	13:M4:125:GLU:HB2	1.90	0.71
21:i4:1648:G:N2	21:i4:1675:A:OP2	2.23	0.71
24:D4:132:LYS:HE2	24:D4:191:PRO:HA	1.73	0.71
10:C5:65:LYS:CA	10:C5:277:HIS:CE1	2.73	0.71
21:i5:219:U:O2'	28:I5:186:ASP:OD2	2.08	0.71
23:B5:71:LEU:HD13	23:B5:82:ARG:HG3	1.73	0.71
30:L5:126:VAL:HG23	30:L5:145:VAL:HA	1.73	0.71
21:i6:731:G:O2'	21:i6:732:U:OP1	2.09	0.71
23:B6:33:VAL:HG22	23:B6:96:CYS:HB3	1.73	0.71
36:k5:94:HIS:CG	36:k5:135:MET:HG2	2.25	0.71
36:k6:18:LYS:O	36:k6:22:ILE:CG1	2.38	0.71
36:k6:83:ARG:CZ	36:k6:175:TRP:CE2	2.73	0.71
37:l4:161:GLU:HG2	37:l4:161:GLU:O	1.88	0.71
37:l6:161:GLU:HG2	37:l6:161:GLU:O	1.88	0.71
10:C1:202:THR:OG1	10:C1:221:ASP:OD2	2.08	0.71
15:O1:12:GLU:HA	15:O1:13:GLN:HG3	1.73	0.71
16:W1:51:GLU:HG3	19:b1:8:LEU:HD11	1.71	0.71
23:B1:71:LEU:HD13	23:B1:82:ARG:HG3	1.73	0.71
26:F1:15:PRO:HD3	32:Q1:57:LEU:HG	1.72	0.71
8:f2:95:ARG:O	21:i2:1288:U:P	2.48	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C2:116:THR:OG1	10:C2:119:GLY:O	2.08	0.71
11:G2:147:LEU:C	11:G2:147:LEU:HD13	2.15	0.71
11:G2:189:ARG:CZ	21:i2:330:G:C6	2.72	0.71
17:Y2:60:PHE:H	17:Y2:71:GLY:HA2	1.56	0.71
21:i2:1253:A:OP2	21:i2:1526:G:N2	2.23	0.71
21:i2:1780:G:C5	21:i2:1781:A:C8	2.79	0.71
22:A2:2:SER:HB3	22:A2:56:GLU:HG2	1.72	0.71
24:D2:157:MET:HE2	24:D2:187:LYS:HD3	1.73	0.71
25:E2:101:LEU:HG	25:E2:111:VAL:HA	1.72	0.71
3:V3:16:LYS:HG2	3:V3:23:ILE:HG22	1.73	0.71
9:g3:220:ASP:HB2	9:g3:225:LYS:H	1.55	0.71
12:J3:4:ALA:N	12:J3:5:ARG:HB2	2.06	0.71
21:i3:368:U:H3	36:k1:110:ASN:HB2	1.53	0.71
15:O4:12:GLU:HA	15:O4:13:GLN:HG3	1.73	0.71
18:Z4:70:PRO:HG2	18:Z4:88:LEU:HD13	1.60	0.71
18:Z4:89:GLN:O	18:Z4:89:GLN:HG3	1.90	0.71
23:B4:182:LYS:HG2	23:B4:231:LEU:HD13	1.72	0.71
24:D4:64:ARG:CG	29:K4:95:ARG:CZ	2.69	0.71
24:D4:157:MET:HE2	24:D4:187:LYS:HD3	1.72	0.71
30:L4:77:VAL:HA	30:L4:88:ILE:HG22	1.72	0.71
12:J5:38:ARG:NH2	21:i5:524:U:O4	2.24	0.71
21:i5:878:G:O6	21:i5:907:G:N1	2.21	0.71
21:i5:1849:G:C5'	37:l5:146:ARG:CZ	2.68	0.71
10:C6:116:THR:OG1	10:C6:119:GLY:O	2.08	0.71
10:C6:202:THR:OG1	10:C6:221:ASP:OD2	2.08	0.71
17:Y6:60:PHE:H	17:Y6:71:GLY:HA2	1.56	0.71
18:Z6:80:ARG:NH1	34:S6:23:ARG:NE	2.38	0.71
22:A6:214:GLU:CG	33:R6:84:TYR:HE1	1.83	0.71
24:D6:157:MET:HE2	24:D6:187:LYS:HD3	1.72	0.71
30:L6:77:VAL:HA	30:L6:88:ILE:HG22	1.71	0.71
36:k6:2:PHE:HB2	36:k6:168:HIS:HD1	1.54	0.71
37:l3:181:LYS:HG3	37:l3:184:GLU:OE2	1.91	0.71
37:l5:131:VAL:HG12	37:l5:132:CYS:H	1.56	0.71
12:J1:4:ALA:N	12:J1:5:ARG:HB2	2.05	0.71
14:N1:37:ILE:HG23	14:N1:50:ILE:HG21	1.71	0.71
18:Z1:82:SER:CA	21:i1:1598:G:H8	2.00	0.71
5:a2:101:PHE:HB3	5:a2:102:ARG:NE	2.04	0.71
13:M2:121:LYS:O	13:M2:125:GLU:HB2	1.89	0.71
23:B2:71:LEU:HD13	23:B2:82:ARG:HG3	1.73	0.71
24:D2:64:ARG:CG	29:K2:95:ARG:CZ	2.68	0.71
24:D2:132:LYS:HE2	24:D2:191:PRO:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f3:95:ARG:O	21:i3:1288:U:P	2.48	0.71
21:i3:1828:C:C4'	37:l3:154:CYS:SG	2.79	0.71
21:i4:1172:U:C4'	35:j4:10:MET:HE2	2.16	0.71
23:B4:33:VAL:HG22	23:B4:96:CYS:HB3	1.73	0.71
3:V5:16:LYS:HG2	3:V5:23:ILE:HG22	1.73	0.71
8:f6:96:LYS:HB3	21:i6:1307:U:H5	1.47	0.71
14:N6:133:ARG:HD3	30:L6:152:LYS:CB	2.02	0.71
18:Z6:80:ARG:NH1	34:S6:23:ARG:CD	2.54	0.71
36:k3:18:LYS:O	36:k3:22:ILE:CG1	2.38	0.71
36:k5:68:LEU:HD13	36:k5:174:LEU:CD1	2.20	0.71
37:l4:181:LYS:HA	37:l4:182:TRP:C	2.16	0.71
37:l4:182:TRP:HB2	37:l4:183:PRO:CA	2.15	0.71
14:N1:145:THR:O	14:N1:147:SER:N	2.24	0.71
18:Z1:80:ARG:NH1	34:S1:23:ARG:CD	2.54	0.71
11:G2:183:ARG:HH11	21:i2:317:C:P	2.12	0.71
14:N2:145:THR:O	14:N2:147:SER:N	2.24	0.71
21:i2:1583:C:H5''	21:i2:1584:G:H2'	1.73	0.71
21:i2:1689:C:C3'	21:i2:1690:U:P	2.79	0.71
26:F2:78:MET:O	26:F2:83:ASN:ND2	2.24	0.71
14:N3:145:THR:O	14:N3:147:SER:N	2.24	0.71
16:W3:37:PHE:HE1	16:W3:103:VAL:HG21	1.55	0.71
23:B3:33:VAL:HG22	23:B3:96:CYS:HB3	1.73	0.71
24:D3:132:LYS:HE2	24:D3:191:PRO:HA	1.73	0.71
9:g4:220:ASP:HB3	9:g4:223:GLU:HB2	1.72	0.71
14:N4:37:ILE:HG23	14:N4:50:ILE:HG21	1.71	0.71
18:Z5:82:SER:CA	21:i5:1598:G:H8	2.00	0.71
20:e5:43:VAL:CG1	21:i5:551:U:C1'	2.69	0.71
21:i5:1253:A:OP2	21:i5:1526:G:N2	2.23	0.71
26:F5:126:THR:C	26:F5:127:ARG:HG3	2.16	0.71
11:G6:147:LEU:C	11:G6:147:LEU:HD13	2.15	0.71
21:i6:388:U:O4	21:i6:389:A:N6	2.24	0.71
23:B6:182:LYS:HG2	23:B6:231:LEU:HD13	1.72	0.71
37:l6:181:LYS:HA	37:l6:182:TRP:C	2.16	0.71
11:G1:153:VAL:O	11:G1:156:TYR:N	2.19	0.71
18:Z1:80:ARG:NH1	34:S1:23:ARG:NE	2.38	0.71
21:i1:1069:U:H5''	36:k1:16:GLN:O	1.90	0.71
11:G2:142:ARG:HD2	11:G2:147:LEU:HD11	1.70	0.71
21:i2:368:U:O2	36:k5:109:ALA:HB1	1.87	0.71
31:P2:15:PHE:HE2	31:P2:112:ILE:HD13	1.55	0.71
14:N3:37:ILE:HG23	14:N3:50:ILE:HG21	1.71	0.71
21:i3:1851:A:OP1	35:j3:9:ARG:NH2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S3:108:ARG:HH21	21:i6:1773:C:C5'	2.04	0.71
10:C4:116:THR:OG1	10:C4:119:GLY:O	2.08	0.71
16:W4:37:PHE:HE1	16:W4:103:VAL:HG21	1.55	0.71
25:E4:164:LEU:HD12	25:E4:165:GLU:H	1.55	0.71
10:C5:116:THR:OG1	10:C5:119:GLY:O	2.08	0.71
15:O5:12:GLU:HA	15:O5:13:GLN:HG3	1.73	0.71
21:i5:127:C:H1'	21:i5:129:C:H5'	1.71	0.71
21:i5:1070:A:P	36:k5:18:LYS:CD	2.79	0.71
21:i6:1182:A:OP1	35:j6:18:ARG:NH1	2.23	0.71
21:i6:1849:G:N7	37:l6:149:ALA:CB	2.54	0.71
36:k2:140:GLN:HE21	36:k2:141:HIS:HE1	1.35	0.71
36:k4:95:GLN:N	36:k4:133:ALA:O	2.24	0.71
36:k4:172:ASP:O	36:k4:176:HIS:ND1	2.24	0.71
37:l1:131:VAL:HG12	37:l1:132:CYS:H	1.56	0.71
37:l2:131:VAL:HG12	37:l2:132:CYS:H	1.56	0.71
8:f1:130:VAL:CG1	21:i1:1310:U:H5'	2.15	0.70
9:g1:220:ASP:HB2	9:g1:225:LYS:H	1.54	0.70
11:G1:147:LEU:HD13	11:G1:147:LEU:C	2.15	0.70
16:W1:37:PHE:HE1	16:W1:103:VAL:HG21	1.55	0.70
21:i1:211:G:O5'	18:Z6:41:ARG:NH1	2.23	0.70
21:i1:337:C:H2'	21:i1:338:G:C4'	2.06	0.70
23:B1:182:LYS:HG2	23:B1:231:LEU:HD13	1.72	0.70
1:T2:45:LEU:HB3	21:i2:1539:U:H5'	1.73	0.70
8:f2:130:VAL:CG1	21:i2:1310:U:H5'	2.16	0.70
26:F2:137:GLN:CG	26:F2:204:ARG:O	2.34	0.70
33:R2:95:ILE:H	33:R2:96:ILE:HA	1.55	0.70
10:C3:116:THR:OG1	10:C3:119:GLY:O	2.08	0.70
11:G3:147:LEU:C	11:G3:147:LEU:HD13	2.15	0.70
11:G3:205:GLU:O	11:G3:209:TYR:N	2.23	0.70
13:M3:28:HIS:HE1	13:M3:116:LYS:HE3	1.48	0.70
22:A3:2:SER:HB3	22:A3:56:GLU:HG2	1.73	0.70
28:I3:92:ARG:HG3	36:k1:9:GLU:OE2	1.91	0.70
10:C4:121:ARG:NH2	21:i4:1347:U:OP1	2.24	0.70
21:i4:192:C:OP2	28:I4:141:ARG:HD3	1.91	0.70
33:R4:58:MET:HA	33:R4:61:ILE:HD13	1.70	0.70
13:M5:121:LYS:O	13:M5:125:GLU:HB2	1.90	0.70
14:N5:114:ARG:NH1	21:i5:996:A:OP1	2.21	0.70
28:I5:196:GLU:CD	28:I5:200:ARG:NH2	2.44	0.70
31:P5:98:ASN:O	31:P5:122:THR:OG1	1.99	0.70
18:Z6:82:SER:CA	21:i6:1598:G:H8	2.00	0.70
24:D6:64:ARG:CG	29:K6:95:ARG:CZ	2.68	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P6:45:LEU:HD12	31:P6:49:LEU:CD2	2.20	0.70
37:I3:131:VAL:HG12	37:I3:132:CYS:H	1.56	0.70
37:I5:182:TRP:HB2	37:I5:183:PRO:CA	2.15	0.70
1:T1:45:LEU:HB3	21:I1:1539:U:H5'	1.73	0.70
10:C1:116:THR:OG1	10:C1:119:GLY:O	2.08	0.70
14:N1:142:GLU:HB2	14:N1:145:THR:OG1	1.92	0.70
21:I1:628:A:N6	24:D1:145:GLN:HG3	2.06	0.70
10:C2:202:THR:OG1	10:C2:221:ASP:OD2	2.08	0.70
21:I2:337:C:O2'	21:I2:339:A:P	2.50	0.70
17:Y3:113:ARG:HA	17:Y3:116:LYS:HZ1	1.56	0.70
18:Z4:80:ARG:NH1	34:S4:23:ARG:CD	2.54	0.70
22:A4:177:MET:SD	22:A4:180:ARG:NH2	2.62	0.70
26:F4:15:PRO:HD3	32:Q4:57:LEU:HG	1.72	0.70
26:F4:78:MET:O	26:F4:83:ASN:ND2	2.23	0.70
26:F4:126:THR:C	26:F4:127:ARG:HG3	2.16	0.70
12:J5:4:ALA:N	12:J5:5:ARG:HB2	2.06	0.70
14:N6:142:GLU:HB2	14:N6:145:THR:OG1	1.91	0.70
18:Z6:89:GLN:O	18:Z6:89:GLN:HG3	1.91	0.70
21:I6:1253:A:OP2	21:I6:1526:G:N2	2.23	0.70
24:D6:132:LYS:HE2	24:D6:191:PRO:HA	1.73	0.70
36:k5:39:TRP:NE1	36:k5:90:PHE:CZ	2.59	0.70
37:I1:133:GLY:O	37:I1:134:LEU:HG	1.90	0.70
37:I3:164:ILE:HG22	37:I3:165:ILE:H	1.55	0.70
21:I1:1842:C:H3'	35:j1:4:LYS:HZ3	1.56	0.70
24:D1:64:ARG:CG	29:K1:95:ARG:CZ	2.69	0.70
33:R1:95:ILE:H	33:R1:96:ILE:HA	1.55	0.70
34:S1:108:ARG:NH2	21:I3:1773:C:O5'	2.24	0.70
18:Z2:80:ARG:NH1	34:S2:23:ARG:CD	2.54	0.70
20:e2:45:VAL:HG23	21:I2:535:G:H4'	1.72	0.70
28:I2:160:SER:OG	21:I5:956:G:OP2	2.05	0.70
9:g3:133:ASN:ND2	9:g3:137:VAL:O	2.20	0.70
11:G3:142:ARG:HD2	11:G3:147:LEU:HD11	1.70	0.70
18:Z3:80:ARG:NH1	34:S3:23:ARG:CD	2.54	0.70
23:B3:182:LYS:HG2	23:B3:231:LEU:HD13	1.72	0.70
25:E4:101:LEU:HG	25:E4:111:VAL:HA	1.72	0.70
33:R4:58:MET:C	33:R4:61:ILE:HG12	2.15	0.70
33:R4:95:ILE:H	33:R4:96:ILE:HA	1.55	0.70
13:M5:36:ARG:HE	13:M5:40:LYS:HZ2	1.39	0.70
22:A6:2:SER:HB3	22:A6:56:GLU:HG2	1.72	0.70
31:P6:34:MET:CB	31:P6:42:ARG:HG3	2.19	0.70
33:R6:77:GLU:O	33:R6:78:ARG:C	2.35	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:10:ASN:HB3	36:k1:56:HIS:ND1	2.04	0.70
36:k1:172:ASP:O	36:k1:176:HIS:ND1	2.25	0.70
36:k2:82:LEU:CD1	36:k2:169:TYR:HA	2.20	0.70
22:A1:2:SER:HB3	22:A1:56:GLU:HG2	1.73	0.70
26:F1:126:THR:C	26:F1:127:ARG:HG3	2.16	0.70
14:N2:114:ARG:NH1	21:i2:996:A:OP1	2.21	0.70
33:R2:21:TYR:CB	33:R2:71:ILE:CD1	2.70	0.70
1:T3:45:LEU:HB3	21:i3:1539:U:H5'	1.73	0.70
15:O3:12:GLU:HA	15:O3:13:GLN:HG3	1.73	0.70
31:P3:96:VAL:HG21	31:P3:116:LEU:HD11	1.59	0.70
33:R3:58:MET:HA	33:R3:61:ILE:HG12	1.74	0.70
10:C4:273:LEU:CB	10:C4:280:VAL:HG11	2.02	0.70
21:i4:219:U:O2'	28:I4:186:ASP:OD2	2.08	0.70
21:i4:1583:C:H5''	21:i4:1584:G:H2'	1.73	0.70
22:A4:2:SER:HB3	22:A4:56:GLU:HG2	1.73	0.70
31:P4:96:VAL:HG21	31:P4:116:LEU:HD11	1.59	0.70
11:G5:153:VAL:O	11:G5:156:TYR:N	2.19	0.70
21:i5:11:A:C2	21:i5:1357:A:O2'	2.42	0.70
24:D5:157:MET:HE2	24:D5:187:LYS:HD3	1.73	0.70
21:i6:878:G:O6	21:i6:907:G:N1	2.20	0.70
21:i6:1143:A:O3'	21:i6:1355:C:N4	2.25	0.70
21:i6:1648:G:N2	21:i6:1675:A:OP2	2.22	0.70
26:F6:126:THR:C	26:F6:127:ARG:HG3	2.16	0.70
31:P6:41:GLN:HB3	31:P6:84:ILE:CD1	2.17	0.70
31:P6:124:LYS:HG2	31:P6:125:PRO:HD2	1.74	0.70
36:k1:109:ALA:O	36:k1:166:ASN:ND2	2.22	0.70
36:k2:170:LEU:HD23	36:k2:171:ASN:CG	2.16	0.70
36:k3:94:HIS:HA	36:k3:133:ALA:C	2.15	0.70
37:l1:181:LYS:HG3	37:l1:184:GLU:OE2	1.91	0.70
37:l4:131:VAL:HG12	37:l4:132:CYS:H	1.56	0.70
37:l6:131:VAL:HG12	37:l6:132:CYS:H	1.56	0.70
21:i1:1622:U:O4	31:P1:120:SER:O	2.10	0.70
26:F1:78:MET:O	26:F1:83:ASN:ND2	2.23	0.70
31:P1:124:LYS:HG2	31:P1:125:PRO:HD2	1.74	0.70
21:i2:815:U:H2'	21:i2:816:A:H8	1.57	0.70
26:F2:15:PRO:HD3	32:Q2:57:LEU:HG	1.72	0.70
26:F2:185:SER:O	28:I4:141:ARG:NH2	2.25	0.70
8:f3:130:VAL:CG1	21:i3:1310:U:H5'	2.16	0.70
15:O3:66:ARG:NH1	28:I6:125:LYS:NZ	2.39	0.70
33:R3:65:PRO:HB2	33:R3:74:GLN:HE22	1.55	0.70
20:e4:45:VAL:CG2	21:i4:535:G:C4'	2.69	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:852:G:N2	21:i4:853:C:N3	2.40	0.70
21:i4:878:G:O6	21:i4:907:G:N1	2.20	0.70
18:Z5:80:ARG:NH1	34:S5:23:ARG:CD	2.54	0.70
21:i5:1070:A:P	36:k5:18:LYS:HD2	2.30	0.70
10:C6:65:LYS:CA	10:C6:277:HIS:CE1	2.74	0.70
21:i6:815:U:H2'	21:i6:816:A:H8	1.57	0.70
23:B6:71:LEU:HD13	23:B6:82:ARG:HG3	1.73	0.70
31:P6:98:ASN:O	31:P6:122:THR:OG1	1.99	0.70
36:k1:82:LEU:CD1	36:k1:169:TYR:HA	2.17	0.70
37:l2:181:LYS:HG3	37:l2:184:GLU:OE2	1.91	0.70
37:l6:164:ILE:HG22	37:l6:165:ILE:H	1.56	0.70
2:U1:25:THR:HG22	2:U1:86:LYS:HA	1.74	0.70
19:b1:40:CYS:HG	19:b1:59:CYS:HG	1.38	0.70
21:i1:1210:G:C2	21:i1:1690:U:C2	2.79	0.70
5:a2:64:LEU:HD12	5:a2:65:PRO:HD2	1.72	0.70
14:N2:142:GLU:HB2	14:N2:145:THR:OG1	1.91	0.70
15:O2:84:ARG:NH1	30:L4:27:GLU:OE2	2.22	0.70
21:i2:1622:U:O4	31:P2:120:SER:O	2.10	0.70
1:T3:43:LYS:NZ	21:i3:1540:G:OP2	2.20	0.70
11:G3:153:VAL:O	11:G3:156:TYR:N	2.19	0.70
21:i3:878:G:O6	21:i3:907:G:N1	2.21	0.70
21:i3:1622:U:O4	31:P3:120:SER:O	2.10	0.70
23:B3:71:LEU:HD13	23:B3:82:ARG:HG3	1.73	0.70
8:f4:105:TYR:HE2	8:f4:106:TYR:HH	1.38	0.70
21:i4:211:G:C2	21:i4:212:C:C2	2.79	0.70
21:i4:1300:U:H2'	31:P4:51:ARG:NH2	2.05	0.70
21:i4:1622:U:O4	31:P4:120:SER:O	2.10	0.70
22:A5:2:SER:HB3	22:A5:56:GLU:HG2	1.73	0.70
23:B5:66:VAL:HG22	23:B5:87:ILE:HG22	1.74	0.70
26:F5:78:MET:O	26:F5:83:ASN:ND2	2.23	0.70
26:F5:123:GLU:HG3	26:F5:200:ALA:HB2	1.72	0.70
21:i6:219:U:O2'	28:I6:186:ASP:OD2	2.08	0.70
21:i6:1121:G:N2	23:B6:202:GLN:O	2.24	0.70
33:R6:21:TYR:CE2	33:R6:72:LYS:CE	2.74	0.70
35:j6:8:LYS:HD3	35:j6:12:ARG:HH21	1.55	0.70
36:k1:169:TYR:CZ	36:k1:172:ASP:HB3	2.26	0.70
36:k2:108:GLY:HA2	36:k2:166:ASN:OD1	1.92	0.70
36:k6:172:ASP:O	36:k6:176:HIS:ND1	2.25	0.70
37:l4:180:GLU:CD	37:l4:181:LYS:HD2	2.17	0.70
1:T1:7:LYS:NZ	21:i1:1430:C:OP1	2.25	0.70
5:a1:64:LEU:HD12	5:a1:65:PRO:HD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:852:G:N2	21:i1:853:C:N3	2.40	0.70
30:L1:77:VAL:HA	30:L1:88:ILE:HG22	1.72	0.70
10:C2:68:ARG:HH22	10:C2:276:THR:C	1.97	0.70
15:O2:12:GLU:HA	15:O2:13:GLN:HG3	1.73	0.70
18:Z2:41:ARG:NH1	21:i4:211:G:O5'	2.24	0.70
21:i2:334:C:OP1	21:i2:334:C:H4'	1.91	0.70
21:i2:753:C:OP1	21:i2:792:C:O2'	2.10	0.70
30:L2:126:VAL:HG23	30:L2:145:VAL:HA	1.72	0.70
11:G3:190:ARG:NE	21:i3:333:G:O6	2.23	0.70
18:Z3:70:PRO:HG2	18:Z3:88:LEU:HD13	1.60	0.70
21:i3:12:U:O2'	21:i3:1356:G:C1'	2.39	0.70
21:i3:1829:G:OP1	37:l3:126:LYS:CE	2.28	0.70
12:J4:4:ALA:N	12:J4:5:ARG:HB2	2.05	0.70
21:i4:337:C:O2'	21:i4:339:A:OP1	2.09	0.70
23:B4:66:VAL:HG22	23:B4:87:ILE:HG22	1.74	0.70
31:P4:124:LYS:HG2	31:P4:125:PRO:HD2	1.74	0.70
14:N5:145:THR:O	14:N5:147:SER:N	2.24	0.70
3:V6:16:LYS:HG2	3:V6:23:ILE:HG22	1.72	0.70
10:C6:142:LYS:CD	10:C6:157:LEU:CD1	2.65	0.70
14:N6:145:THR:O	14:N6:147:SER:N	2.24	0.70
21:i6:628:A:N6	24:D6:145:GLN:HG3	2.05	0.70
36:k6:83:ARG:CG	36:k6:175:TRP:CZ3	2.74	0.70
13:M1:36:ARG:HH22	21:i1:1310:U:H5	1.32	0.70
16:W1:118:ARG:NH2	21:i1:735:C:H2'	2.06	0.70
21:i1:1763:G:C4'	34:S6:116:LYS:CD	2.69	0.70
12:J2:137:VAL:HG22	12:J2:157:ILE:HG22	1.74	0.70
15:O2:63:LYS:NZ	28:I4:158:ILE:HD11	2.06	0.70
21:i2:61:A:H2	21:i2:334:C:C2'	1.89	0.70
25:E2:164:LEU:HD12	25:E2:165:GLU:H	1.55	0.70
13:M3:121:LYS:O	13:M3:125:GLU:HB2	1.90	0.70
21:i3:523:A:H2'	21:i3:524:U:H5'	1.72	0.70
21:i3:815:U:H2'	21:i3:816:A:H8	1.57	0.70
21:i3:1121:G:N2	23:B3:202:GLN:O	2.24	0.70
26:F3:137:GLN:CG	26:F3:204:ARG:O	2.35	0.70
1:T4:45:LEU:HB3	21:i4:1539:U:H5'	1.73	0.70
5:a4:64:LEU:HD12	5:a4:65:PRO:HD2	1.72	0.70
14:N4:142:GLU:HB2	14:N4:145:THR:OG1	1.91	0.70
18:Z4:46:ASN:CB	18:Z4:80:ARG:HA	2.13	0.70
21:i4:12:U:H1'	21:i4:1357:A:C1'	2.21	0.70
21:i4:693:A:N3	21:i4:738:C:H2'	2.07	0.70
31:P4:119:PHE:CD1	34:S4:120:HIS:N	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1522:A:O4'	31:P5:128:HIS:CD2	2.45	0.70
21:i5:1622:U:O4	31:P5:120:SER:O	2.10	0.70
26:F5:137:GLN:CG	26:F5:204:ARG:O	2.35	0.70
31:P5:124:LYS:HG2	31:P5:125:PRO:HD2	1.74	0.70
21:i6:1693:G:H21	21:i6:1834:A:C1'	2.05	0.70
36:k6:140:GLN:HE21	36:k6:141:HIS:HE1	1.35	0.70
21:i1:52:G:P	8:f2:110:GLU:CG	2.76	0.70
22:A1:177:MET:SD	22:A1:180:ARG:NH2	2.62	0.70
9:g2:254:PRO:O	9:g2:272:GLN:NE2	2.25	0.70
11:G2:141:ILE:HG13	11:G2:144:LEU:HD21	0.70	0.70
13:M2:48:HIS:HB2	13:M2:114:TYR:OH	1.92	0.70
20:e2:45:VAL:CB	21:i2:535:G:H5'	2.21	0.70
2:U3:25:THR:HG22	2:U3:86:LYS:HA	1.74	0.70
5:a3:64:LEU:HD12	5:a3:65:PRO:HD2	1.72	0.70
8:f3:96:LYS:O	21:i3:1288:U:C5'	2.40	0.70
10:C3:145:LYS:CD	21:i3:1348:G:H5'	2.21	0.70
21:i3:12:U:H1'	21:i3:1357:A:H1'	1.73	0.70
21:i3:950:C:H42	21:i3:976:G:H1	1.40	0.70
26:F3:126:THR:C	26:F3:127:ARG:HG3	2.16	0.70
5:a4:100:ARG:CZ	5:a4:100:ARG:HB3	2.22	0.70
17:Y4:60:PHE:H	17:Y4:71:GLY:HA2	1.56	0.70
18:Z4:80:ARG:HH12	34:S4:23:ARG:NE	1.90	0.70
21:i4:815:U:H2'	21:i4:816:A:H8	1.57	0.70
21:i4:1522:A:O4'	31:P4:128:HIS:CD2	2.45	0.70
23:B4:103:MET:HG2	23:B4:215:VAL:HG12	1.74	0.70
25:E4:11:ARG:NH1	25:E4:21:ASP:OD1	2.25	0.70
2:U5:25:THR:HG22	2:U5:86:LYS:HA	1.74	0.70
17:Y5:60:PHE:H	17:Y5:71:GLY:HA2	1.56	0.70
21:i5:368:U:C2	36:k4:109:ALA:CB	2.75	0.70
21:i5:557:U:O2	21:i5:558:G:C6	2.45	0.70
21:i5:739:C:C2'	21:i5:746:C:N4	2.51	0.70
23:B5:33:VAL:HG22	23:B5:96:CYS:HB3	1.73	0.70
12:J6:4:ALA:N	12:J6:5:ARG:HB2	2.05	0.70
15:O6:12:GLU:HA	15:O6:13:GLN:HG3	1.73	0.70
21:i6:1583:C:H5''	21:i6:1584:G:H2'	1.73	0.70
36:k3:172:ASP:O	36:k3:176:HIS:ND1	2.24	0.70
13:M1:48:HIS:HB2	13:M1:114:TYR:OH	1.92	0.70
24:D1:157:MET:HE2	24:D1:187:LYS:HD3	1.72	0.70
25:E1:125:LYS:NZ	25:E1:225:ILE:O	2.18	0.70
10:C2:68:ARG:NH2	10:C2:276:THR:C	2.47	0.70
20:e2:43:VAL:HB	21:i2:551:U:O2'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:852:G:N2	21:i2:853:C:N3	2.40	0.70
21:i2:1103:C:OP1	23:B2:157:GLN:NE2	2.25	0.70
34:S2:50:ILE:CD1	34:S2:67:VAL:CG2	2.70	0.70
10:C3:74:LYS:CE	10:C3:272:HIS:CD2	2.73	0.70
13:M3:40:LYS:HZ1	21:i3:1310:U:C5'	1.83	0.70
17:Y3:60:PHE:H	17:Y3:71:GLY:HA2	1.55	0.70
21:i3:852:G:N2	21:i3:853:C:N3	2.40	0.70
9:g6:254:PRO:O	9:g6:272:GLN:NE2	2.25	0.70
29:K6:14:LEU:HD11	29:K6:35:LEU:HD22	1.74	0.70
36:k2:172:ASP:O	36:k2:176:HIS:ND1	2.24	0.70
11:G1:141:ILE:HG13	11:G1:144:LEU:HD21	0.70	0.69
18:Z1:70:PRO:HG2	18:Z1:88:LEU:HD13	1.60	0.69
19:b1:35:VAL:HG23	19:b1:79:PHE:HB3	1.71	0.69
21:i1:1240:A:N3	31:P1:100:LYS:HG3	2.07	0.69
13:M2:36:ARG:HE	13:M2:40:LYS:HZ2	1.40	0.69
21:i2:1121:G:N2	23:B2:202:GLN:O	2.24	0.69
21:i2:1648:G:N2	21:i2:1675:A:OP2	2.22	0.69
14:N3:142:GLU:HB2	14:N3:145:THR:OG1	1.91	0.69
21:i3:523:A:C2'	21:i3:524:U:H5'	2.22	0.69
21:i3:753:C:OP1	21:i3:792:C:O2'	2.10	0.69
21:i3:1103:C:OP1	23:B3:157:GLN:NE2	2.25	0.69
35:j3:8:LYS:HD3	35:j3:12:ARG:HH21	1.54	0.69
3:V4:16:LYS:HG2	3:V4:23:ILE:HG22	1.73	0.69
9:g4:29:ASP:HB3	9:g4:45:LEU:HB2	1.73	0.69
10:C4:65:LYS:CA	10:C4:277:HIS:CE1	2.73	0.69
34:S4:4:VAL:HG23	34:S4:58:GLU:OE1	1.88	0.69
10:C5:202:THR:OG1	10:C5:221:ASP:OD2	2.08	0.69
12:J5:137:VAL:HG22	12:J5:157:ILE:HG22	1.74	0.69
18:Z5:70:PRO:HG2	18:Z5:88:LEU:HD13	1.60	0.69
21:i5:455:A:H4'	21:i5:1736:G:H5'	1.73	0.69
21:i5:1175:G:OP2	35:j5:21:ARG:CZ	2.39	0.69
21:i5:1621:U:H4'	31:P5:115:TYR:CZ	2.27	0.69
25:E5:105:THR:HG23	25:E5:106:LYS:HG2	1.74	0.69
8:f6:80:ARG:HH22	21:i6:1503:C:C2'	2.03	0.69
14:N6:133:ARG:NH1	30:L6:152:LYS:C	2.50	0.69
21:i6:691:G:H3'	21:i6:692:G:C5'	2.21	0.69
26:F6:137:GLN:CG	26:F6:204:ARG:O	2.32	0.69
36:k2:95:GLN:CB	36:k2:134:ILE:HD12	1.93	0.69
36:k2:140:GLN:NE2	36:k2:141:HIS:CE1	2.60	0.69
9:g1:11:LEU:HD21	9:g1:52:TYR:HB2	1.74	0.69
17:Y1:113:ARG:HA	17:Y1:116:LYS:HZ3	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E1:105:THR:HG23	25:E1:106:LYS:HG2	1.74	0.69
21:i2:1183:A:H5'	35:j2:11:ARG:NE	2.07	0.69
21:i2:1240:A:N3	31:P2:100:LYS:HG3	2.07	0.69
9:g3:29:ASP:HB3	9:g3:45:LEU:HB2	1.74	0.69
9:g3:254:PRO:O	9:g3:272:GLN:NE2	2.25	0.69
20:e3:21:LYS:NZ	21:i3:636:C:OP2	2.25	0.69
27:H4:162:GLN:HG3	27:H4:165:ASN:HB3	1.72	0.69
32:Q4:4:LYS:NZ	32:Q4:99:TYR:CB	2.55	0.69
8:f5:102:VAL:HG21	13:M5:35:ILE:HG23	1.73	0.69
9:g5:254:PRO:O	9:g5:272:GLN:NE2	2.25	0.69
13:M5:48:HIS:HB2	13:M5:114:TYR:OH	1.92	0.69
18:Z5:89:GLN:O	18:Z5:89:GLN:HG3	1.90	0.69
24:D5:54:ARG:HE	24:D5:57:ASN:HD22	1.40	0.69
28:I5:8:TRP:HA	28:I5:18:ARG:HH21	1.57	0.69
18:Z6:85:ARG:HG3	18:Z6:85:ARG:O	1.93	0.69
21:i6:1757:G:N1	21:i6:1776:G:O6	2.24	0.69
25:E6:101:LEU:HG	25:E6:111:VAL:HA	1.72	0.69
36:k5:172:ASP:O	36:k5:176:HIS:ND1	2.24	0.69
37:l5:128:VAL:HG11	37:l5:165:ILE:CA	2.22	0.69
37:l5:181:LYS:HG3	37:l5:184:GLU:OE2	1.91	0.69
37:l6:128:VAL:HG11	37:l6:165:ILE:CA	2.22	0.69
8:f1:102:VAL:HG21	13:M1:35:ILE:HG23	1.74	0.69
18:Z1:89:GLN:O	18:Z1:89:GLN:HG3	1.90	0.69
20:e1:21:LYS:NZ	21:i1:636:C:OP2	2.25	0.69
21:i1:219:U:O2'	28:I1:186:ASP:OD2	2.08	0.69
21:i1:1121:G:N2	23:B1:202:GLN:O	2.24	0.69
21:i1:1522:A:O4'	31:P1:128:HIS:CD2	2.45	0.69
21:i1:1757:G:N1	21:i1:1776:G:O6	2.24	0.69
25:E1:11:ARG:NH1	25:E1:21:ASP:OD1	2.25	0.69
34:S1:50:ILE:CD1	34:S1:67:VAL:CG2	2.70	0.69
20:e2:21:LYS:NZ	21:i2:636:C:OP2	2.25	0.69
21:i2:1748:G:C2	21:i2:1749:G:H1'	2.27	0.69
21:i2:1757:G:N1	21:i2:1776:G:O6	2.24	0.69
12:J3:137:VAL:HG22	12:J3:157:ILE:HG22	1.74	0.69
13:M3:48:HIS:HB2	13:M3:114:TYR:OH	1.92	0.69
16:W3:111:MET:SD	16:W3:115:GLU:HG2	2.31	0.69
21:i3:388:U:O4	21:i3:389:A:N6	2.24	0.69
21:i3:1522:A:O4'	31:P3:128:HIS:CD2	2.45	0.69
10:C4:279:ARG:NH2	22:A4:118:GLU:HG3	2.07	0.69
21:i4:950:C:H42	21:i4:976:G:H1	1.40	0.69
21:i4:1757:G:N1	21:i4:1776:G:O6	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g5:29:ASP:HB3	9:g5:45:LEU:HB2	1.73	0.69
10:C5:68:ARG:NH2	10:C5:276:THR:C	2.47	0.69
13:M5:36:ARG:HH12	21:i5:1310:U:H5	1.20	0.69
17:Y5:22:GLN:HE22	25:E5:56:LEU:HD12	1.58	0.69
21:i5:1103:C:OP1	23:B5:157:GLN:NE2	2.25	0.69
21:i5:1236:G:H4'	31:P5:132:GLY:O	1.91	0.69
21:i5:1757:G:N1	21:i5:1776:G:O6	2.24	0.69
9:g6:11:LEU:HD21	9:g6:52:TYR:HB2	1.74	0.69
10:C6:279:ARG:NH2	22:A6:118:GLU:HG3	2.07	0.69
21:i6:1622:U:O4	31:P6:120:SER:O	2.10	0.69
21:i6:1829:G:OP1	37:l6:126:LYS:HE3	1.93	0.69
36:k1:82:LEU:CD2	36:k1:142:ALA:HB3	2.21	0.69
36:k6:2:PHE:CB	36:k6:168:HIS:HE1	2.04	0.69
37:l1:181:LYS:HA	37:l1:182:TRP:C	2.16	0.69
37:l4:164:ILE:HG22	37:l4:165:ILE:H	1.55	0.69
37:l5:181:LYS:HA	37:l5:182:TRP:C	2.16	0.69
37:l6:127:TYR:HB2	37:l6:169:ASP:CA	2.22	0.69
9:g1:146:SER:HA	9:g1:175:LYS:HD2	1.74	0.69
17:Y1:60:PHE:H	17:Y1:71:GLY:HA2	1.55	0.69
32:Q1:4:LYS:NZ	32:Q1:99:TYR:CB	2.55	0.69
8:f2:80:ARG:HD3	21:i2:1327:G:O2'	1.93	0.69
18:Z2:89:GLN:O	18:Z2:89:GLN:HG3	1.91	0.69
22:A2:207:PRO:O	22:A2:208:GLU:HG3	1.93	0.69
26:F2:126:THR:C	26:F2:127:ARG:HG3	2.16	0.69
32:Q2:4:LYS:NZ	32:Q2:99:TYR:CB	2.55	0.69
21:i3:185:G:N2	21:i3:214:U:H3	1.84	0.69
21:i3:1173:A:OP1	35:j3:14:LYS:HG2	1.92	0.69
33:R3:65:PRO:CA	33:R3:73:LEU:CD2	2.68	0.69
34:S3:50:ILE:CD1	34:S3:67:VAL:CG2	2.70	0.69
8:f4:87:THR:CG2	8:f4:90:LYS:NZ	2.38	0.69
21:i4:920:A:O2'	21:i4:922:A:O5'	2.11	0.69
21:i4:1061:U:O4	37:l4:145:GLN:HG2	1.91	0.69
9:g5:147:HIS:NE2	9:g5:168:CYS:O	2.25	0.69
21:i5:1583:C:H5''	21:i5:1584:G:H2'	1.73	0.69
24:D5:132:LYS:HE2	24:D5:191:PRO:HA	1.73	0.69
2:U6:25:THR:HG22	2:U6:86:LYS:HA	1.74	0.69
20:e6:21:LYS:NZ	21:i6:636:C:OP2	2.25	0.69
22:A6:207:PRO:O	22:A6:208:GLU:HG3	1.93	0.69
34:S6:50:ILE:CD1	34:S6:67:VAL:CG2	2.70	0.69
36:k6:94:HIS:HB2	36:k6:135:MET:HG2	1.74	0.69
37:l3:181:LYS:HA	37:l3:182:TRP:C	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l4:117:ILE:HD12	37:l4:174:ILE:HG13	1.74	0.69
37:l5:117:ILE:HD12	37:l5:174:ILE:HG13	1.74	0.69
5:a1:100:ARG:HB3	5:a1:100:ARG:CZ	2.22	0.69
20:e1:40:ARG:CA	20:e1:44:ASN:ND2	2.51	0.69
21:i1:388:U:O4	21:i1:389:A:N6	2.24	0.69
21:i1:920:A:O2'	21:i1:922:A:O5'	2.11	0.69
21:i1:1184:G:OP1	35:j1:11:ARG:NH2	2.25	0.69
21:i1:1621:U:H4'	31:P1:115:TYR:CZ	2.27	0.69
34:S1:50:ILE:CD1	34:S1:67:VAL:HG23	2.23	0.69
11:G2:153:VAL:O	11:G2:156:TYR:N	2.19	0.69
11:G2:189:ARG:NH2	21:i2:331:C:N4	2.41	0.69
21:i2:739:C:C5	21:i2:746:C:N4	2.61	0.69
21:i2:1044:G:O6	36:k2:20:SER:CB	2.40	0.69
23:B2:24:PRO:CG	30:L4:27:GLU:HB3	2.22	0.69
9:g3:146:SER:HA	9:g3:175:LYS:HD2	1.75	0.69
15:O3:34:PHE:HB3	15:O3:41:PHE:HB2	1.75	0.69
18:Z3:89:GLN:O	18:Z3:89:GLN:HG3	1.91	0.69
25:E3:125:LYS:NZ	25:E3:225:ILE:O	2.18	0.69
31:P3:12:PHE:CE1	21:i6:1763:G:H5''	2.28	0.69
31:P3:41:GLN:CD	31:P3:84:ILE:CG2	2.64	0.69
1:T4:7:LYS:NZ	21:i4:1430:C:OP1	2.25	0.69
10:C4:68:ARG:NH2	10:C4:276:THR:C	2.47	0.69
11:G4:141:ILE:HG13	11:G4:144:LEU:HD21	0.70	0.69
22:A4:207:PRO:O	22:A4:208:GLU:HG3	1.93	0.69
31:P4:41:GLN:OE1	31:P4:84:ILE:HG12	1.92	0.69
1:T5:43:LYS:NZ	21:i5:1540:G:OP2	2.20	0.69
22:A5:177:MET:SD	22:A5:180:ARG:NH2	2.62	0.69
8:f6:130:VAL:CG1	21:i6:1310:U:H5'	2.16	0.69
9:g6:220:ASP:HB3	9:g6:223:GLU:HB2	1.73	0.69
18:Z6:80:ARG:NH1	34:S6:23:ARG:HD2	2.07	0.69
21:i6:1780:G:C5	21:i6:1781:A:C8	2.81	0.69
25:E6:105:THR:HG23	25:E6:106:LYS:HG2	1.74	0.69
31:P6:15:PHE:HE2	31:P6:112:ILE:HD13	1.55	0.69
36:k4:170:LEU:HD11	36:k4:175:TRP:CZ2	2.28	0.69
36:k6:83:ARG:HH21	36:k6:175:TRP:CG	2.10	0.69
36:k6:112:MET:CG	36:k6:114:PRO:HD2	2.17	0.69
37:l1:117:ILE:HD12	37:l1:174:ILE:HG13	1.74	0.69
37:l2:164:ILE:HG22	37:l2:165:ILE:H	1.55	0.69
9:g1:254:PRO:O	9:g1:272:GLN:NE2	2.25	0.69
11:G1:141:ILE:HG12	11:G1:141:ILE:O	1.93	0.69
12:J1:136:ARG:NH1	12:J1:138:ARG:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W1:118:ARG:NH1	21:i1:735:C:O2'	2.26	0.69
21:i1:457:C:H5'	21:i1:1801:A:O2'	1.93	0.69
9:g2:220:ASP:HB3	9:g2:223:GLU:HB2	1.73	0.69
15:O2:66:ARG:NE	28:I4:125:LYS:CD	2.52	0.69
20:e2:25:LYS:CD	21:i2:554:A:H5''	2.23	0.69
21:i3:526:A:C2	21:i3:560:A:C2	2.81	0.69
23:B3:66:VAL:HG22	23:B3:87:ILE:HG22	1.74	0.69
26:F3:15:PRO:HD3	32:Q3:57:LEU:HG	1.72	0.69
20:e4:21:LYS:NZ	21:i4:636:C:OP2	2.25	0.69
23:B4:71:LEU:HD13	23:B4:82:ARG:HG3	1.73	0.69
8:f5:80:ARG:NH2	21:i5:1503:C:H1'	2.06	0.69
21:i5:852:G:N2	21:i5:853:C:N3	2.40	0.69
21:i5:1240:A:N3	31:P5:100:LYS:HG3	2.07	0.69
32:Q5:4:LYS:NZ	32:Q5:99:TYR:CB	2.56	0.69
8:f6:92:LYS:CG	21:i6:1303:C:O2'	2.40	0.69
12:J6:173:VAL:HB	21:i6:561:A:P	2.31	0.69
13:M6:48:HIS:HB2	13:M6:114:TYR:OH	1.92	0.69
21:i6:852:G:N2	21:i6:853:C:N3	2.40	0.69
36:k3:140:GLN:HE21	36:k3:141:HIS:HE1	1.35	0.69
36:k5:33:PHE:CZ	36:k5:131:ILE:HD12	2.26	0.69
36:k5:39:TRP:CD1	36:k5:90:PHE:CZ	2.80	0.69
18:Z1:80:ARG:HH12	34:S1:23:ARG:NE	1.90	0.69
19:b1:36:LYS:HA	19:b1:43:ILE:HG22	1.75	0.69
1:T2:7:LYS:NZ	21:i2:1430:C:OP1	2.25	0.69
2:U2:19:ARG:CD	2:U2:119:ALA:O	2.23	0.69
5:a2:100:ARG:HB3	5:a2:100:ARG:CZ	2.22	0.69
20:e2:31:ARG:NH1	21:i2:525:A:H4'	2.07	0.69
21:i2:1522:A:O4'	31:P2:128:HIS:CD2	2.45	0.69
31:P2:41:GLN:OE1	31:P2:84:ILE:CD1	2.41	0.69
34:S2:50:ILE:CD1	34:S2:67:VAL:HG23	2.23	0.69
8:f3:92:LYS:CG	21:i3:1303:C:O2'	2.40	0.69
9:g3:220:ASP:HB3	9:g3:223:GLU:HB2	1.73	0.69
10:C3:68:ARG:NH2	10:C3:276:THR:C	2.47	0.69
21:i3:525:A:C6	21:i3:587:A:N1	2.61	0.69
29:K3:14:LEU:HD11	29:K3:35:LEU:HD22	1.74	0.69
31:P3:15:PHE:O	31:P3:16:THR:CB	2.39	0.69
34:S3:50:ILE:CD1	34:S3:67:VAL:HG23	2.23	0.69
21:i4:1183:A:OP1	35:j4:15:ARG:NH2	2.25	0.69
8:f5:99:LYS:CB	21:i5:1285:G:N2	2.36	0.69
21:i5:61:A:C4'	21:i5:317:C:C1'	2.65	0.69
21:i5:1208:A:H2'	21:i5:1209:A:H8	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E5:11:ARG:NH1	25:E5:21:ASP:OD1	2.25	0.69
33:R5:21:TYR:CE2	33:R5:72:LYS:CD	2.75	0.69
1:T6:7:LYS:NZ	21:i6:1430:C:OP1	2.25	0.69
9:g6:29:ASP:HB3	9:g6:45:LEU:HB2	1.73	0.69
22:A6:177:MET:SD	22:A6:180:ARG:NH2	2.62	0.69
36:k3:2:PHE:HB2	36:k3:168:HIS:HE1	0.92	0.69
37:l1:128:VAL:HG11	37:l1:165:ILE:CA	2.22	0.69
37:l2:128:VAL:HG11	37:l2:165:ILE:CA	2.22	0.69
18:Z1:80:ARG:NH1	34:S1:23:ARG:HD2	2.07	0.69
18:Z1:85:ARG:HG3	18:Z1:85:ARG:O	1.92	0.69
23:B1:66:VAL:HG22	23:B1:87:ILE:HG22	1.74	0.69
29:K1:14:LEU:HD11	29:K1:35:LEU:HD22	1.74	0.69
31:P1:15:PHE:HE2	31:P1:112:ILE:HD13	1.55	0.69
2:U2:25:THR:HG22	2:U2:86:LYS:HA	1.74	0.69
3:V2:60:ARG:NH2	22:A2:156:TYR:O	2.26	0.69
8:f2:95:ARG:NE	21:i2:1289:U:C5'	2.21	0.69
9:g2:147:HIS:NE2	9:g2:168:CYS:O	2.25	0.69
10:C2:65:LYS:CA	10:C2:277:HIS:CE1	2.73	0.69
18:Z2:82:SER:CA	21:i2:1598:G:H8	2.00	0.69
20:e2:25:LYS:CE	21:i2:554:A:OP1	2.39	0.69
21:i2:950:C:H42	21:i2:976:G:H1	1.40	0.69
21:i2:1751:C:C5	21:i2:1781:A:C2	2.80	0.69
23:B2:66:VAL:HG22	23:B2:87:ILE:HG22	1.74	0.69
25:E2:105:THR:HG23	25:E2:106:LYS:HG2	1.74	0.69
30:L2:121:GLN:HG3	30:L2:153:LYS:HE3	1.74	0.69
3:V3:60:ARG:NH2	22:A3:156:TYR:O	2.26	0.69
10:C3:68:ARG:HH22	10:C3:276:THR:C	1.97	0.69
10:C3:202:THR:OG1	10:C3:221:ASP:OD2	2.08	0.69
11:G3:190:ARG:NH2	21:i3:333:G:N7	2.39	0.69
21:i3:556:U:O2'	21:i3:558:G:OP2	2.10	0.69
21:i3:1240:A:N3	31:P3:100:LYS:HG3	2.07	0.69
22:A3:207:PRO:O	22:A3:208:GLU:HG3	1.93	0.69
25:E3:11:ARG:NH1	25:E3:21:ASP:OD1	2.25	0.69
32:Q3:4:LYS:NZ	32:Q3:99:TYR:CB	2.55	0.69
33:R3:63:ARG:HH11	33:R3:63:ARG:HG2	1.57	0.69
3:V4:60:ARG:NH2	22:A4:156:TYR:O	2.26	0.69
12:J4:136:ARG:NH1	12:J4:138:ARG:O	2.26	0.69
17:Y4:22:GLN:HE22	25:E4:56:LEU:HD12	1.58	0.69
18:Z4:80:ARG:NH1	34:S4:23:ARG:HD2	2.07	0.69
18:Z4:85:ARG:HG3	18:Z4:85:ARG:O	1.92	0.69
21:i4:211:G:C5	21:i4:212:C:C4	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:628:A:H62	24:D4:145:GLN:HG2	1.55	0.69
21:i4:739:C:H41	21:i4:746:C:H41	1.39	0.69
21:i4:1103:C:OP1	23:B4:157:GLN:NE2	2.25	0.69
25:E4:75:LYS:O	25:E4:77:ARG:N	2.26	0.69
30:L4:121:GLN:CB	30:L4:153:LYS:HG3	2.22	0.69
34:S4:50:ILE:CD1	34:S4:67:VAL:HG23	2.23	0.69
8:f5:105:TYR:HE2	8:f5:106:TYR:CZ	2.11	0.69
9:g5:11:LEU:HD21	9:g5:52:TYR:HB2	1.74	0.69
11:G5:141:ILE:HG13	11:G5:144:LEU:HD21	0.70	0.69
12:J5:136:ARG:NH1	12:J5:138:ARG:O	2.26	0.69
21:i5:211:G:C6	21:i5:212:C:N3	2.61	0.69
21:i5:950:C:H42	21:i5:976:G:H1	1.40	0.69
21:i5:1236:G:H5'	31:P5:133:ILE:HD12	1.67	0.69
34:S5:50:ILE:CD1	34:S5:67:VAL:CG2	2.70	0.69
1:T6:45:LEU:HB3	21:i6:1539:U:H5'	1.73	0.69
8:f6:102:VAL:HG21	13:M6:35:ILE:HG23	1.73	0.69
10:C6:270:THR:CG2	22:A6:69:GLU:CG	2.70	0.69
12:J6:136:ARG:NH1	12:J6:138:ARG:O	2.25	0.69
14:N6:76:LYS:HD3	14:N6:81:ALA:HB3	1.74	0.69
21:i6:753:C:OP1	21:i6:792:C:O2'	2.10	0.69
21:i6:1240:A:N3	31:P6:100:LYS:HG3	2.07	0.69
21:i6:1849:G:C6	37:l6:149:ALA:CA	2.75	0.69
25:E6:183:VAL:HG23	25:E6:189:LEU:HA	1.75	0.69
32:Q6:4:LYS:NZ	32:Q6:99:TYR:CB	2.55	0.69
36:k3:140:GLN:HG2	36:k3:141:HIS:ND1	2.08	0.69
36:k4:140:GLN:NE2	36:k4:141:HIS:CE1	2.60	0.69
36:k6:140:GLN:HG2	36:k6:141:HIS:ND1	2.08	0.69
37:l4:127:TYR:HB2	37:l4:169:ASP:CA	2.22	0.69
37:l4:128:VAL:HG11	37:l4:165:ILE:CA	2.22	0.69
9:g1:29:ASP:HB3	9:g1:45:LEU:HB2	1.74	0.69
21:i1:1621:U:O4'	31:P1:115:TYR:CE1	2.46	0.69
23:B1:103:MET:HG2	23:B1:215:VAL:HG12	1.74	0.69
24:D1:54:ARG:HE	24:D1:57:ASN:HD22	1.41	0.69
8:f2:99:LYS:CB	21:i2:1285:G:H21	1.65	0.69
15:O2:34:PHE:HB3	15:O2:41:PHE:HB2	1.75	0.69
18:Z2:80:ARG:NH1	34:S2:23:ARG:HD2	2.07	0.69
20:e2:25:LYS:HE2	21:i2:554:A:P	2.33	0.69
20:e2:46:VAL:HG22	20:e2:49:PHE:CD1	2.28	0.69
21:i2:388:U:O4	21:i2:389:A:N6	2.24	0.69
25:E2:11:ARG:NH1	25:E2:21:ASP:OD1	2.25	0.69
8:f3:105:TYR:HE2	8:f3:106:TYR:CZ	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z3:80:ARG:NH1	34:S3:23:ARG:HD2	2.07	0.69
21:i3:1693:G:N2	21:i3:1834:A:C8	2.61	0.69
22:A3:211:GLU:CB	33:R3:81:ARG:HH21	2.05	0.69
24:D3:54:ARG:HE	24:D3:57:ASN:HD22	1.41	0.69
26:F3:182:LYS:NZ	21:i6:200:G:O5'	2.00	0.69
29:K3:19:GLY:H	29:K3:92:ALA:HB2	1.58	0.69
8:f4:102:VAL:HG21	13:M4:35:ILE:HG23	1.74	0.69
21:i4:528:A:H2'	21:i4:529:A:O4'	1.93	0.69
26:F4:137:GLN:CG	26:F4:204:ARG:O	2.35	0.69
1:T5:45:LEU:HB3	21:i5:1539:U:H5'	1.73	0.69
11:G5:189:ARG:CD	21:i5:330:G:C8	2.65	0.69
14:N5:29:THR:HG22	14:N5:31:ASP:H	1.58	0.69
21:i5:1300:U:H2'	31:P5:51:ARG:NH2	2.07	0.69
21:i6:1522:A:O4'	31:P6:128:HIS:CD2	2.45	0.69
36:k2:95:GLN:HB2	36:k2:134:ILE:HD11	1.69	0.69
36:k2:145:VAL:N	36:k2:167:ILE:CB	2.43	0.69
36:k3:7:GLU:OE1	36:k3:177:MET:HG3	1.92	0.69
3:V1:60:ARG:NH2	22:A1:156:TYR:O	2.26	0.69
10:C1:117:ARG:NE	21:i1:1204:A:OP1	2.26	0.69
20:e1:45:VAL:CG2	21:i1:536:A:OP1	2.37	0.69
21:i1:1750:C:N3	21:i1:1784:G:O6	2.26	0.69
31:P1:44:ARG:HH11	31:P1:44:ARG:HG3	1.58	0.69
34:S1:108:ARG:HD2	21:i3:1760:G:N2	2.08	0.69
34:S1:108:ARG:HE	21:i3:1772:C:C2'	2.06	0.69
21:i2:1378:A:O5'	22:A2:105:PRO:CB	2.40	0.69
25:E2:125:LYS:NZ	25:E2:225:ILE:O	2.18	0.69
18:Z3:46:ASN:CB	18:Z3:80:ARG:HA	2.13	0.69
21:i3:733:C:H5	27:H3:149:ASP:O	1.76	0.69
21:i3:920:A:O2'	21:i3:922:A:O5'	2.10	0.69
25:E3:105:THR:HG23	25:E3:106:LYS:HG2	1.74	0.69
28:I3:8:TRP:HA	28:I3:18:ARG:HH21	1.57	0.69
9:g4:11:LEU:HD21	9:g4:52:TYR:HB2	1.74	0.69
13:M4:48:HIS:HB2	13:M4:114:TYR:OH	1.92	0.69
14:N4:76:LYS:HD3	14:N4:81:ALA:HB3	1.75	0.69
20:e4:46:VAL:HG22	20:e4:49:PHE:CD1	2.28	0.69
21:i4:753:C:OP1	21:i4:792:C:O2'	2.10	0.69
21:i4:1036:A:N3	21:i4:1844:U:O2'	2.26	0.69
21:i4:1240:A:N3	31:P4:100:LYS:HG3	2.07	0.69
24:D4:64:ARG:HE	29:K4:95:ARG:NH2	1.86	0.69
34:S4:16:LEU:HD21	34:S4:72:GLN:HE22	1.58	0.69
12:J5:26:ASP:HB3	20:e5:41:ARG:HH22	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:84:LEU:HA	14:N5:135:LEU:HD21	1.75	0.69
14:N5:142:GLU:HB2	14:N5:145:THR:OG1	1.92	0.69
21:i5:795:A:H62	27:H5:109:ARG:HH22	1.41	0.69
22:A5:211:GLU:CB	33:R5:81:ARG:HH21	2.05	0.69
17:Y6:22:GLN:HE22	25:E6:56:LEU:HD12	1.58	0.69
36:k4:83:ARG:NH1	36:k4:175:TRP:CH2	2.60	0.69
37:l1:127:TYR:HB2	37:l1:169:ASP:CA	2.23	0.69
37:l2:152:PHE:CE1	37:l2:173:ASP:OD1	2.46	0.69
37:l3:128:VAL:HG11	37:l3:165:ILE:CA	2.22	0.69
10:C1:189:GLY:N	21:i1:1355:C:H1'	2.08	0.68
10:C1:270:THR:CG2	22:A1:69:GLU:CG	2.70	0.68
12:J1:138:ARG:NH2	12:J1:153:SER:OG	2.27	0.68
14:N1:76:LYS:HD3	14:N1:81:ALA:HB3	1.75	0.68
15:O1:34:PHE:HB3	15:O1:41:PHE:HB2	1.75	0.68
21:i1:556:U:H5	21:i1:588:G:C1'	1.95	0.68
9:g2:29:ASP:HB3	9:g2:45:LEU:HB2	1.73	0.68
13:M2:91:LEU:CD1	21:i2:1284:A:H61	2.06	0.68
18:Z2:70:PRO:HG2	18:Z2:88:LEU:HD13	1.60	0.68
21:i2:1700:C:N3	21:i2:1834:A:N6	2.40	0.68
35:j2:8:LYS:HD3	35:j2:12:ARG:HH21	1.54	0.68
9:g3:11:LEU:HD21	9:g3:52:TYR:HB2	1.74	0.68
20:e3:46:VAL:HG22	20:e3:49:PHE:CD1	2.28	0.68
21:i3:1300:U:H2'	31:P3:51:ARG:NH2	2.07	0.68
29:K3:80:ARG:HA	29:K3:85:LEU:HD12	1.75	0.68
8:f4:92:LYS:CG	21:i4:1303:C:O2'	2.40	0.68
21:i4:315:C:C4	21:i4:336:A:C2	2.73	0.68
28:I4:8:TRP:HA	28:I4:18:ARG:HH21	1.57	0.68
12:J5:138:ARG:NH2	12:J5:153:SER:OG	2.26	0.68
14:N5:76:LYS:HD3	14:N5:81:ALA:HB3	1.75	0.68
15:O5:34:PHE:HB3	15:O5:41:PHE:HB2	1.75	0.68
20:e5:21:LYS:NZ	21:i5:636:C:OP2	2.25	0.68
21:i5:1817:G:N3	35:j5:20:MET:HE1	2.07	0.68
25:E5:183:VAL:HG23	25:E5:189:LEU:HA	1.75	0.68
8:f6:95:ARG:NE	21:i6:1289:U:C5'	2.22	0.68
25:E6:11:ARG:NH1	25:E6:21:ASP:OD1	2.25	0.68
36:k4:140:GLN:HG2	36:k4:141:HIS:ND1	2.08	0.68
36:k5:94:HIS:CG	36:k5:135:MET:CG	2.76	0.68
36:k5:140:GLN:NE2	36:k5:141:HIS:CE1	2.60	0.68
37:l2:181:LYS:HA	37:l2:182:TRP:C	2.16	0.68
37:l5:127:TYR:HB2	37:l5:169:ASP:CA	2.22	0.68
8:f1:92:LYS:CG	21:i1:1303:C:O2'	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f1:96:LYS:O	21:i1:1288:U:C5'	2.40	0.68
9:g1:147:HIS:NE2	9:g1:168:CYS:O	2.25	0.68
10:C1:279:ARG:NH2	22:A1:118:GLU:HG3	2.07	0.68
24:D1:132:LYS:HE2	24:D1:191:PRO:HA	1.73	0.68
12:J2:138:ARG:NH2	12:J2:153:SER:OG	2.26	0.68
21:i2:1621:U:H4'	31:P2:115:TYR:CZ	2.27	0.68
23:B2:103:MET:HG2	23:B2:215:VAL:HG12	1.75	0.68
25:E2:75:LYS:O	25:E2:77:ARG:N	2.26	0.68
32:Q2:4:LYS:HZ2	32:Q2:99:TYR:CB	2.07	0.68
8:f3:102:VAL:HG21	13:M3:35:ILE:HG23	1.73	0.68
12:J3:138:ARG:NH2	12:J3:153:SER:OG	2.27	0.68
21:i3:795:A:H62	27:H3:109:ARG:HH22	1.41	0.68
9:g4:146:SER:HA	9:g4:175:LYS:HD2	1.74	0.68
11:G4:141:ILE:HG12	11:G4:141:ILE:O	1.93	0.68
15:O4:34:PHE:HB3	15:O4:41:PHE:HB2	1.75	0.68
22:A4:211:GLU:CB	33:R4:81:ARG:HH21	2.05	0.68
28:I4:197:PHE:HA	28:I4:200:ARG:CD	2.22	0.68
5:a5:100:ARG:CZ	5:a5:100:ARG:HB3	2.22	0.68
8:f5:92:LYS:CG	21:i5:1303:C:O2'	2.40	0.68
10:C5:279:ARG:NH2	22:A5:118:GLU:HG3	2.07	0.68
21:i5:1121:G:N2	23:B5:202:GLN:O	2.24	0.68
31:P5:41:GLN:CD	31:P5:84:ILE:CG2	2.65	0.68
31:P5:133:ILE:HG22	31:P5:134:GLY:H	1.56	0.68
10:C6:68:ARG:HH22	10:C6:276:THR:C	1.97	0.68
10:C6:117:ARG:NE	21:i6:1204:A:OP1	2.26	0.68
20:e6:35:ARG:NH1	21:i6:526:A:OP1	2.25	0.68
21:i6:795:A:H62	27:H6:109:ARG:HH22	1.42	0.68
21:i6:1300:U:H2'	31:P6:51:ARG:NH2	2.07	0.68
28:I6:8:TRP:HA	28:I6:18:ARG:HH21	1.58	0.68
36:k3:94:HIS:CG	36:k3:135:MET:CG	2.75	0.68
36:k4:92:LEU:HD23	36:k4:93:PRO:HD2	1.73	0.68
36:k4:94:HIS:HB2	36:k4:135:MET:CG	2.15	0.68
37:l1:164:ILE:HG22	37:l1:165:ILE:H	1.56	0.68
37:l1:180:GLU:CD	37:l1:181:LYS:HD2	2.17	0.68
14:N1:29:THR:HG22	14:N1:31:ASP:H	1.58	0.68
22:A1:211:GLU:CB	33:R1:81:ARG:HH21	2.05	0.68
8:f2:97:LYS:CG	21:i2:1288:U:OP2	2.42	0.68
21:i2:1300:U:H2'	31:P2:51:ARG:NH2	2.08	0.68
29:K2:14:LEU:HD11	29:K2:35:LEU:HD22	1.74	0.68
8:f3:97:LYS:CG	21:i3:1288:U:OP2	2.42	0.68
21:i3:1236:G:H5''	31:P3:133:ILE:CG1	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g4:147:HIS:NE2	9:g4:168:CYS:O	2.25	0.68
9:g4:254:PRO:O	9:g4:272:GLN:NE2	2.25	0.68
21:i4:1621:U:H4'	31:P4:115:TYR:CZ	2.27	0.68
23:B4:21:VAL:CA	30:L5:31:GLU:CG	2.69	0.68
1:T5:7:LYS:NZ	21:i5:1430:C:OP1	2.25	0.68
18:Z5:80:ARG:HH12	34:S5:23:ARG:NE	1.90	0.68
21:i5:753:C:OP1	21:i5:792:C:O2'	2.10	0.68
21:i5:815:U:H2'	21:i5:816:A:H8	1.57	0.68
21:i5:1354:G:N2	21:i5:1357:A:OP2	2.25	0.68
21:i5:1622:U:O4	31:P5:120:SER:C	2.36	0.68
8:f6:96:LYS:CD	21:i6:1307:U:C6	2.76	0.68
8:f6:97:LYS:CG	21:i6:1288:U:OP2	2.42	0.68
12:J6:173:VAL:CG1	21:i6:560:A:H5'	2.10	0.68
21:i6:1521:C:N4	34:S6:137:LYS:CD	2.56	0.68
21:i6:1849:G:OP2	37:l6:146:ARG:NH2	2.26	0.68
36:k1:146:GLY:CA	36:k1:167:ILE:HG12	2.21	0.68
36:k4:170:LEU:CG	36:k4:171:ASN:N	2.55	0.68
37:l1:152:PHE:CE1	37:l1:173:ASP:OD1	2.46	0.68
37:l3:156:ALA:HB2	37:l3:166:ILE:HG23	1.76	0.68
37:l6:117:ILE:HD12	37:l6:174:ILE:HG13	1.74	0.68
37:l6:152:PHE:CE1	37:l6:173:ASP:OD1	2.46	0.68
34:S1:16:LEU:HD21	34:S1:72:GLN:HE22	1.58	0.68
9:g2:11:LEU:HD21	9:g2:52:TYR:HB2	1.74	0.68
10:C2:74:LYS:HE2	10:C2:272:HIS:HB3	1.73	0.68
12:J2:136:ARG:NH1	12:J2:138:ARG:O	2.26	0.68
24:D2:54:ARG:HE	24:D2:57:ASN:HD22	1.41	0.68
4:X3:61:GLN:OE1	21:i3:1824:A:N7	2.26	0.68
18:Z3:85:ARG:HG3	18:Z3:85:ARG:O	1.92	0.68
8:f4:130:VAL:CG1	21:i4:1310:U:H5'	2.16	0.68
21:i4:1755:C:H1'	21:i4:1777:G:H22	1.59	0.68
11:G5:141:ILE:HG12	11:G5:141:ILE:O	1.93	0.68
13:M5:91:LEU:CD1	21:i5:1284:A:H61	2.06	0.68
21:i5:1718:G:H5''	35:j5:24:SER:CB	2.22	0.68
26:F5:54:GLY:O	32:Q5:125:ARG:NH2	2.27	0.68
31:P5:15:PHE:CE2	31:P5:112:ILE:CG1	2.70	0.68
33:R5:22:THR:CG2	33:R5:72:LYS:HZ2	2.06	0.68
3:V6:60:ARG:NH2	22:A6:156:TYR:O	2.26	0.68
8:f6:105:TYR:HD2	8:f6:106:TYR:CD2	2.12	0.68
21:i6:1047:C:H42	21:i6:1071:G:H1	1.42	0.68
22:A6:211:GLU:CB	33:R6:81:ARG:HH21	2.05	0.68
36:k1:112:MET:CG	36:k1:114:PRO:HD2	2.17	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:117:THR:HG21	36:k1:159:ASN:OD1	1.94	0.68
36:k3:117:THR:HG21	36:k3:159:ASN:OD1	1.94	0.68
36:k5:117:THR:HG21	36:k5:159:ASN:OD1	1.94	0.68
37:l2:127:TYR:HB2	37:l2:169:ASP:CA	2.22	0.68
37:l5:180:GLU:CD	37:l5:181:LYS:HD2	2.17	0.68
37:l6:180:GLU:CD	37:l6:181:LYS:HD2	2.17	0.68
19:b1:37:CYS:SG	19:b1:63:LEU:CD2	2.82	0.68
21:i1:815:U:H2'	21:i1:816:A:H8	1.57	0.68
25:E1:52:LEU:HD21	25:E1:111:VAL:HG11	1.76	0.68
28:I1:124:LYS:O	15:O6:66:ARG:NH2	2.27	0.68
29:K1:80:ARG:HA	29:K1:85:LEU:HD12	1.75	0.68
20:e2:35:ARG:NH1	21:i2:526:A:H5'	2.05	0.68
21:i2:795:A:H62	27:H2:109:ARG:HH22	1.41	0.68
21:i2:1378:A:P	22:A2:105:PRO:CG	2.80	0.68
26:F2:54:GLY:O	32:Q2:125:ARG:NH2	2.27	0.68
31:P2:124:LYS:HG2	31:P2:125:PRO:HD2	1.74	0.68
1:T3:7:LYS:NZ	21:i3:1430:C:OP1	2.25	0.68
10:C3:74:LYS:HE2	10:C3:272:HIS:HB3	1.73	0.68
11:G3:141:ILE:HG13	11:G3:144:LEU:HD21	0.69	0.68
12:J3:136:ARG:NH1	12:J3:138:ARG:O	2.25	0.68
21:i3:380:G:N1	21:i3:383:G:OP2	2.27	0.68
21:i3:1621:U:H4'	31:P3:115:TYR:CZ	2.27	0.68
31:P3:15:PHE:CZ	31:P3:17:TYR:HB2	2.27	0.68
12:J4:138:ARG:NH2	12:J4:153:SER:OG	2.26	0.68
14:N4:29:THR:HG22	14:N4:31:ASP:H	1.58	0.68
21:i4:12:U:O2'	21:i4:1356:G:H1'	1.94	0.68
25:E4:52:LEU:HD21	25:E4:111:VAL:HG11	1.76	0.68
3:V5:60:ARG:NH2	22:A5:156:TYR:O	2.26	0.68
18:Z5:85:ARG:HG3	18:Z5:85:ARG:O	1.92	0.68
21:i5:1036:A:N3	21:i5:1844:U:O2'	2.27	0.68
22:A5:207:PRO:O	22:A5:208:GLU:HG3	1.93	0.68
29:K5:14:LEU:HD11	29:K5:35:LEU:HD22	1.74	0.68
31:P5:34:MET:HB3	31:P5:42:ARG:HG3	1.74	0.68
12:J6:138:ARG:NH2	12:J6:153:SER:OG	2.26	0.68
21:i6:1036:A:N3	21:i6:1844:U:O2'	2.27	0.68
21:i6:1621:U:H4'	31:P6:115:TYR:CZ	2.27	0.68
23:B6:103:MET:HG2	23:B6:215:VAL:HG12	1.74	0.68
36:k1:146:GLY:CA	36:k1:167:ILE:CG1	2.71	0.68
37:l3:180:GLU:CD	37:l3:181:LYS:HD2	2.17	0.68
12:J1:137:VAL:HG22	12:J1:157:ILE:HG22	1.74	0.68
21:i1:795:A:H62	27:H1:109:ARG:HH22	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:950:C:H42	21:i1:976:G:H1	1.40	0.68
21:i1:1755:C:H1'	21:i1:1777:G:H22	1.59	0.68
21:i1:1842:C:C6	35:j1:4:LYS:CE	2.77	0.68
8:f2:105:TYR:HE2	8:f2:106:TYR:CZ	2.12	0.68
17:Y2:109:GLU:HG3	17:Y2:113:ARG:CZ	2.22	0.68
18:Z2:85:ARG:HG3	18:Z2:85:ARG:O	1.92	0.68
28:I2:8:TRP:HA	28:I2:18:ARG:HH21	1.58	0.68
21:i3:867:G:C5'	30:L3:149:ALA:HB1	2.24	0.68
13:M4:91:LEU:CD1	21:i4:1284:A:H61	2.06	0.68
10:C5:145:LYS:HG3	21:i5:1348:G:C5'	2.22	0.68
21:i5:61:A:O4'	21:i5:317:C:O2'	1.95	0.68
21:i5:1521:C:N4	34:S5:137:LYS:CD	2.56	0.68
29:K5:80:ARG:HA	29:K5:85:LEU:HD12	1.76	0.68
31:P5:33:LEU:O	31:P5:37:TYR:HB2	1.93	0.68
34:S5:50:ILE:CD1	34:S5:67:VAL:HG23	2.23	0.68
21:i6:1755:C:H1'	21:i6:1777:G:H22	1.59	0.68
23:B6:66:VAL:HG22	23:B6:87:ILE:HG22	1.74	0.68
26:F6:54:GLY:O	32:Q6:125:ARG:NH2	2.27	0.68
36:k2:7:GLU:CG	36:k2:177:MET:HG3	2.23	0.68
36:k2:22:ILE:CG1	36:k2:50:VAL:CG2	2.72	0.68
36:k5:82:LEU:HD11	36:k5:169:TYR:HA	0.72	0.68
37:l2:180:GLU:CD	37:l2:181:LYS:HD2	2.17	0.68
37:l3:117:ILE:HD12	37:l3:174:ILE:HG13	1.75	0.68
8:f1:105:TYR:HD2	8:f1:106:TYR:CD2	2.12	0.68
13:M1:91:LEU:CD1	21:i1:1284:A:H61	2.06	0.68
30:L1:126:VAL:HG23	30:L1:145:VAL:HA	1.76	0.68
6:c2:63:ARG:HB3	26:F2:204:ARG:HH21	1.59	0.68
8:f2:102:VAL:HG21	13:M2:35:ILE:HG23	1.74	0.68
21:i2:193:C:C5'	18:Z5:75:GLU:OE2	2.41	0.68
25:E2:183:VAL:HG23	25:E2:189:LEU:HA	1.75	0.68
9:g3:147:HIS:NE2	9:g3:168:CYS:O	2.25	0.68
10:C3:279:ARG:NH2	22:A3:118:GLU:HG3	2.07	0.68
18:Z3:80:ARG:HH12	34:S3:23:ARG:NE	1.90	0.68
20:e3:31:ARG:NH1	21:i3:526:A:H5'	2.08	0.68
21:i3:1622:U:O4	31:P3:120:SER:C	2.36	0.68
21:i3:1757:G:N1	21:i3:1776:G:O6	2.24	0.68
8:f4:80:ARG:CG	21:i4:1509:U:H3	2.05	0.68
8:f4:105:TYR:CZ	8:f4:131:PHE:CB	2.75	0.68
8:f4:105:TYR:HE2	8:f4:106:TYR:CZ	2.11	0.68
21:i4:1354:G:N2	21:i4:1357:A:OP2	2.25	0.68
29:K4:80:ARG:HA	29:K4:85:LEU:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S4:50:ILE:CD1	34:S4:67:VAL:CG2	2.70	0.68
10:C5:101:SER:OG	10:C5:132:ASP:OD1	2.12	0.68
18:Z5:80:ARG:NH1	34:S5:23:ARG:HD2	2.07	0.68
21:i5:920:A:O2'	21:i5:922:A:O5'	2.11	0.68
9:g6:147:HIS:NE2	9:g6:168:CYS:O	2.25	0.68
14:N6:133:ARG:HD3	30:L6:152:LYS:HG3	0.71	0.68
14:N6:133:ARG:NH1	30:L6:152:LYS:CA	2.54	0.68
18:Z6:80:ARG:HH12	34:S6:23:ARG:NE	1.90	0.68
20:e6:46:VAL:HG22	20:e6:49:PHE:CD1	2.28	0.68
21:i6:798:A:N6	21:i6:801:U:O5'	2.23	0.68
21:i6:1621:U:O4'	31:P6:115:TYR:CE1	2.46	0.68
31:P6:41:GLN:HE22	31:P6:115:TYR:HB3	1.58	0.68
36:k5:95:GLN:HB2	36:k5:134:ILE:HD11	1.72	0.68
37:l2:156:ALA:HB2	37:l2:166:ILE:HG23	1.76	0.68
37:l3:127:TYR:HB2	37:l3:169:ASP:CA	2.22	0.68
37:l3:171:THR:O	37:l3:174:ILE:HG22	1.94	0.68
14:N1:133:ARG:NH2	30:L1:154:GLN:CA	2.53	0.68
22:A1:207:PRO:O	22:A1:208:GLU:HG3	1.93	0.68
34:S1:108:ARG:HH21	21:i3:1772:C:C2'	2.04	0.68
1:T2:43:LYS:NZ	21:i2:1540:G:OP2	2.20	0.68
8:f2:92:LYS:CG	21:i2:1303:C:O2'	2.40	0.68
8:f2:105:TYR:CZ	8:f2:131:PHE:CB	2.75	0.68
21:i2:1047:C:H42	21:i2:1071:G:H1	1.41	0.68
21:i2:1377:U:C2'	22:A2:105:PRO:HG2	2.24	0.68
29:K2:80:ARG:HA	29:K2:85:LEU:HD12	1.76	0.68
21:i3:1069:U:C5'	36:k3:16:GLN:HB3	2.23	0.68
21:i4:1047:C:H42	21:i4:1071:G:H1	1.42	0.68
29:K4:19:GLY:H	29:K4:92:ALA:HB2	1.58	0.68
21:i5:1621:U:O4'	31:P5:115:TYR:CE1	2.46	0.68
5:a6:100:ARG:CZ	5:a6:100:ARG:HB3	2.22	0.68
9:g6:146:SER:HA	9:g6:175:LYS:HD2	1.74	0.68
10:C6:145:LYS:CD	21:i6:1348:G:C4'	2.72	0.68
11:G6:54:GLY:HA3	11:G6:63:MET:HG2	1.76	0.68
12:J6:137:VAL:HG22	12:J6:157:ILE:HG22	1.74	0.68
14:N6:133:ARG:CG	30:L6:152:LYS:HG3	2.21	0.68
25:E6:75:LYS:O	25:E6:77:ARG:N	2.26	0.68
36:k1:83:ARG:CZ	36:k1:175:TRP:CZ2	2.76	0.68
36:k2:5:PHE:CZ	36:k2:177:MET:SD	2.87	0.68
36:k5:22:ILE:CG1	36:k5:50:VAL:CG2	2.72	0.68
37:l3:119:LYS:O	37:l3:120:ILE:CD1	2.42	0.68
11:G1:149:LYS:HB2	11:G1:149:LYS:HZ2	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b1:37:CYS:HA	19:b1:63:LEU:HD23	1.75	0.68
21:i1:528:A:C4	21:i1:558:G:N2	2.62	0.68
22:A1:211:GLU:HB2	33:R1:81:ARG:HH21	1.59	0.68
10:C2:117:ARG:NE	21:i2:1204:A:OP1	2.26	0.68
11:G2:149:LYS:HB2	11:G2:149:LYS:HZ2	1.57	0.68
6:c3:63:ARG:HB3	26:F3:204:ARG:HH21	1.59	0.68
10:C3:117:ARG:NE	21:i3:1204:A:OP1	2.26	0.68
13:M3:91:LEU:CD1	21:i3:1284:A:H61	2.06	0.68
15:O3:66:ARG:HH12	28:I6:125:LYS:NZ	1.92	0.68
17:Y3:22:GLN:HE22	25:E3:56:LEU:HD12	1.58	0.68
17:Y3:89:HIS:HB2	21:i3:574:A:H4'	1.76	0.68
25:E3:183:VAL:HG23	25:E3:189:LEU:HA	1.74	0.68
31:P3:124:LYS:HG2	31:P3:125:PRO:HD2	1.74	0.68
33:R3:58:MET:HA	33:R3:61:ILE:CD1	2.23	0.68
8:f4:102:VAL:HB	13:M4:35:ILE:HD13	1.76	0.68
21:i4:388:U:O4	21:i4:389:A:N6	2.24	0.68
21:i4:1622:U:O4	31:P4:120:SER:C	2.36	0.68
8:f5:97:LYS:CG	21:i5:1288:U:OP2	2.42	0.68
20:e5:28:LYS:HB3	21:i5:524:U:H2'	1.76	0.68
31:P5:96:VAL:HG21	31:P5:116:LEU:HD11	1.60	0.68
36:k1:140:GLN:HG2	36:k1:141:HIS:ND1	2.08	0.68
36:k3:112:MET:CG	36:k3:114:PRO:HD2	2.17	0.68
37:l2:171:THR:O	37:l2:174:ILE:HG22	1.94	0.68
37:l3:152:PHE:CE1	37:l3:173:ASP:OD1	2.46	0.68
37:l4:152:PHE:CE1	37:l4:173:ASP:OD1	2.46	0.68
37:l6:156:ALA:HB2	37:l6:166:ILE:HG23	1.76	0.68
21:i1:52:G:OP2	8:f2:110:GLU:HG3	1.92	0.68
21:i1:753:C:OP1	21:i1:792:C:O2'	2.10	0.68
21:i1:1378:A:OP2	22:A1:105:PRO:CG	2.36	0.68
21:i1:1622:U:O4	31:P1:120:SER:C	2.36	0.68
21:i1:1776:G:N3	21:i1:1776:G:H3'	2.10	0.68
26:F1:54:GLY:O	32:Q1:125:ARG:NH2	2.27	0.68
10:C2:279:ARG:NH2	22:A2:118:GLU:HG3	2.07	0.68
21:i2:1300:U:C6	31:P2:51:ARG:CZ	2.77	0.68
21:i2:1378:A:OP1	22:A2:132:GLN:CD	2.37	0.68
21:i2:1621:U:O4'	31:P2:115:TYR:CE1	2.46	0.68
21:i2:1622:U:O4	31:P2:120:SER:C	2.36	0.68
23:B2:24:PRO:HD3	30:L4:27:GLU:HB3	1.76	0.68
34:S2:16:LEU:HD21	34:S2:72:GLN:HE22	1.58	0.68
34:S2:108:ARG:HH22	21:i4:1773:C:C4'	2.03	0.68
14:N3:130:LYS:HE2	14:N3:139:TRP:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:132:LYS:HA	30:L3:152:LYS:HZ3	1.58	0.68
18:Z3:49:LEU:HD11	34:S3:5:ILE:CG2	2.24	0.68
2:U4:25:THR:HG22	2:U4:86:LYS:HA	1.74	0.68
18:Z4:82:SER:CA	21:i4:1598:G:H8	2.00	0.68
26:F4:54:GLY:O	32:Q4:125:ARG:NH2	2.27	0.68
31:P4:41:GLN:CG	31:P4:84:ILE:HD13	2.24	0.68
33:R4:58:MET:CA	33:R4:61:ILE:CD1	2.67	0.68
14:N5:133:ARG:CG	30:L5:154:GLN:CG	2.72	0.68
21:i5:1784:G:H2'	21:i5:1784:G:N3	2.08	0.68
30:L5:124:ASP:HB3	30:L5:147:LYS:HE3	1.76	0.68
15:O6:34:PHE:HB3	15:O6:41:PHE:HB2	1.75	0.68
34:S6:16:LEU:HD21	34:S6:72:GLN:HE22	1.58	0.68
36:k5:140:GLN:HG2	36:k5:141:HIS:ND1	2.08	0.68
36:k6:117:THR:HG21	36:k6:159:ASN:OD1	1.94	0.68
37:l5:119:LYS:O	37:l5:120:ILE:CD1	2.42	0.68
17:Y1:22:GLN:HE22	25:E1:56:LEU:HD12	1.58	0.67
28:I1:8:TRP:HA	28:I1:18:ARG:HH21	1.57	0.67
9:g2:146:SER:HA	9:g2:175:LYS:HD2	1.74	0.67
14:N2:76:LYS:HD3	14:N2:81:ALA:HB3	1.75	0.67
18:Z2:80:ARG:HH12	34:S2:23:ARG:NE	1.90	0.67
21:i2:920:A:O2'	21:i2:922:A:O5'	2.11	0.67
21:i2:1377:U:OP2	22:A2:102:ARG:HG2	1.91	0.67
29:K2:19:GLY:H	29:K2:92:ALA:HB2	1.58	0.67
31:P2:121:ILE:CD1	31:P2:123:TYR:CD2	2.74	0.67
5:a3:100:ARG:CZ	5:a3:100:ARG:HB3	2.22	0.67
8:f3:102:VAL:HB	13:M3:35:ILE:HD13	1.76	0.67
21:i3:1036:A:N3	21:i3:1844:U:O2'	2.27	0.67
21:i3:1236:G:H5'	31:P3:133:ILE:HD12	1.68	0.67
21:i3:1521:C:N4	34:S3:137:LYS:CD	2.56	0.67
25:E3:52:LEU:HD21	25:E3:111:VAL:HG11	1.76	0.67
31:P3:12:PHE:HD1	21:i6:1763:G:C4'	2.04	0.67
8:f4:96:LYS:O	21:i4:1288:U:C5'	2.40	0.67
21:i4:690:G:N3	21:i4:690:G:H3'	2.09	0.67
21:i4:1776:G:N3	21:i4:1776:G:H3'	2.09	0.67
31:P4:15:PHE:HE2	31:P4:112:ILE:CD1	2.07	0.67
21:i5:380:G:N1	21:i5:383:G:OP2	2.26	0.67
21:i5:528:A:C2	21:i5:558:G:N2	2.61	0.67
21:i5:798:A:N6	21:i5:801:U:O5'	2.23	0.67
21:i5:1752:C:OP1	21:i5:1782:G:O6	2.11	0.67
21:i5:1849:G:H5''	37:l5:146:ARG:HH22	0.51	0.67
6:c6:63:ARG:HB3	26:F6:204:ARG:HH21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N6:30:SER:HB2	14:N6:66:VAL:O	1.94	0.67
22:A6:214:GLU:OE1	22:A6:215:GLN:OE1	2.11	0.67
34:S6:50:ILE:CD1	34:S6:67:VAL:HG23	2.23	0.67
36:k4:117:THR:HG21	36:k4:159:ASN:OD1	1.94	0.67
21:i1:1521:C:N4	34:S1:137:LYS:CD	2.56	0.67
21:i1:1849:G:OP2	37:l1:146:ARG:CZ	2.43	0.67
29:K1:19:GLY:H	29:K1:92:ALA:HB2	1.58	0.67
8:f2:96:LYS:HE2	21:i2:1307:U:O5'	1.94	0.67
9:g2:57:ARG:NH1	9:g2:92:LEU:O	2.28	0.67
18:Z2:49:LEU:HD11	34:S2:5:ILE:CG2	2.24	0.67
21:i2:380:G:N1	21:i2:383:G:OP2	2.27	0.67
12:J3:131:ARG:NH1	21:i3:563:G:O2'	2.27	0.67
14:N3:76:LYS:HD3	14:N3:81:ALA:HB3	1.75	0.67
21:i3:12:U:O2'	21:i3:1356:G:O2'	2.05	0.67
31:P3:35:GLN:HA	31:P3:42:ARG:CZ	2.24	0.67
33:R3:61:ILE:O	33:R3:73:LEU:HD22	1.94	0.67
8:f4:105:TYR:HD2	8:f4:106:TYR:CD2	2.12	0.67
20:e4:46:VAL:HG22	20:e4:49:PHE:HD1	1.60	0.67
21:i4:1521:C:N4	34:S4:137:LYS:CD	2.56	0.67
22:A4:89:LYS:HE2	33:R4:82:ASP:OD1	1.94	0.67
29:K4:14:LEU:HD11	29:K4:35:LEU:HD22	1.74	0.67
9:g5:57:ARG:NH1	9:g5:92:LEU:O	2.27	0.67
12:J6:131:ARG:NH1	21:i6:563:G:O2'	2.27	0.67
14:N6:29:THR:C	14:N6:31:ASP:N	2.50	0.67
21:i6:920:A:O2'	21:i6:922:A:O5'	2.11	0.67
24:D6:198:ILE:HG23	24:D6:200:PRO:HD3	1.77	0.67
36:k1:85:LEU:HD21	36:k1:133:ALA:HB2	1.76	0.67
36:k3:83:ARG:NH2	36:k3:175:TRP:O	2.20	0.67
37:l5:152:PHE:CE1	37:l5:173:ASP:OD1	2.46	0.67
37:l6:171:THR:O	37:l6:174:ILE:HG22	1.94	0.67
12:J1:131:ARG:NH1	21:i1:563:G:O2'	2.27	0.67
21:i1:1380:C:H1'	22:A1:110:ASN:HD21	1.60	0.67
22:A1:214:GLU:OE1	22:A1:215:GLN:OE1	2.10	0.67
31:P1:98:ASN:ND2	31:P1:103:ASN:OD1	2.28	0.67
21:i2:1521:C:N4	34:S2:137:LYS:CD	2.56	0.67
28:I2:124:LYS:O	28:I2:125:LYS:CG	2.42	0.67
21:i3:127:C:N4	21:i3:180:G:O2'	2.27	0.67
21:i3:556:U:C4	21:i3:588:G:C8	2.55	0.67
21:i3:1621:U:O4'	31:P3:115:TYR:CE1	2.46	0.67
23:B3:103:MET:HG2	23:B3:215:VAL:HG12	1.75	0.67
33:R3:107:LYS:HA	33:R3:110:ASP:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A4:211:GLU:HB2	33:R4:81:ARG:HH21	1.59	0.67
24:D4:64:ARG:NE	29:K4:95:ARG:CZ	2.57	0.67
25:E4:183:VAL:HG23	25:E4:189:LEU:HA	1.75	0.67
2:U5:19:ARG:CD	2:U5:119:ALA:O	2.23	0.67
17:Y5:89:HIS:HB2	21:i5:574:A:H4'	1.76	0.67
21:i5:1300:U:C6	31:P5:51:ARG:CZ	2.78	0.67
22:A5:211:GLU:HB2	33:R5:81:ARG:HH21	1.59	0.67
25:E5:52:LEU:HD21	25:E5:111:VAL:HG11	1.76	0.67
8:f6:105:TYR:HE2	8:f6:106:TYR:CZ	2.12	0.67
21:i6:211:G:N7	21:i6:212:C:N4	2.41	0.67
21:i6:380:G:N1	21:i6:383:G:OP2	2.26	0.67
21:i6:1143:A:H4'	21:i6:1355:C:N3	2.08	0.67
21:i6:1828:C:H4'	37:l6:154:CYS:SG	2.34	0.67
36:k2:11:VAL:HG21	36:k2:177:MET:CE	2.24	0.67
36:k2:140:GLN:HG2	36:k2:141:HIS:ND1	2.08	0.67
36:k2:170:LEU:O	36:k2:171:ASN:C	2.37	0.67
36:k3:140:GLN:NE2	36:k3:141:HIS:CE1	2.60	0.67
36:k3:170:LEU:HD23	36:k3:171:ASN:CG	2.20	0.67
36:k5:109:ALA:O	36:k5:166:ASN:ND2	2.21	0.67
36:k6:36:ILE:HA	36:k6:91:ILE:CG2	2.23	0.67
37:l2:119:LYS:O	37:l2:120:ILE:CD1	2.42	0.67
8:f1:102:VAL:HB	13:M1:35:ILE:HD13	1.76	0.67
18:Z1:49:LEU:HD11	34:S1:5:ILE:CG2	2.24	0.67
21:i1:1069:U:P	36:k1:18:LYS:HE2	2.34	0.67
21:i1:1174:U:O5'	35:j1:21:ARG:NH2	2.26	0.67
17:Y2:89:HIS:HB2	21:i2:574:A:H4'	1.76	0.67
21:i2:127:C:N4	21:i2:180:G:O2'	2.27	0.67
21:i2:1755:C:H1'	21:i2:1777:G:H22	1.59	0.67
8:f3:80:ARG:HD3	21:i3:1327:G:O2'	1.94	0.67
8:f3:96:LYS:HE2	21:i3:1307:U:O5'	1.94	0.67
8:f3:99:LYS:HG3	21:i3:1285:G:H21	0.81	0.67
9:g3:57:ARG:NH1	9:g3:92:LEU:O	2.28	0.67
21:i3:733:C:N4	27:H3:149:ASP:HB3	2.10	0.67
21:i3:1300:U:C6	31:P3:51:ARG:CZ	2.78	0.67
21:i3:1776:G:N3	21:i3:1776:G:H3'	2.09	0.67
12:J4:137:VAL:HG22	12:J4:157:ILE:HG22	1.74	0.67
18:Z4:49:LEU:HD11	34:S4:5:ILE:CG2	2.24	0.67
18:Z4:81:GLY:C	21:i4:1598:G:O2'	2.38	0.67
8:f5:141:CYS:SG	38:f5:500:ZN:ZN	1.84	0.67
17:Y5:127:ALA:HA	17:Y5:130:LYS:HD3	1.77	0.67
29:K5:19:GLY:H	29:K5:92:ALA:HB2	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:82:ARG:NH1	21:i6:1589:A:O3'	2.28	0.67
11:G6:141:ILE:HG12	11:G6:141:ILE:O	1.92	0.67
17:Y6:127:ALA:HA	17:Y6:130:LYS:HD3	1.77	0.67
29:K6:80:ARG:HA	29:K6:85:LEU:HD12	1.76	0.67
36:k4:95:GLN:HB3	36:k4:134:ILE:HD12	1.75	0.67
8:f1:105:TYR:HE2	8:f1:106:TYR:CZ	2.12	0.67
11:G1:139:SER:O	11:G1:142:ARG:CG	2.43	0.67
21:i1:690:G:H1	21:i1:738:C:N4	1.90	0.67
21:i1:878:G:O6	21:i1:907:G:N1	2.20	0.67
21:i1:1300:U:H2'	31:P1:51:ARG:NH2	2.08	0.67
21:i1:1772:C:C2	34:S6:112:GLU:OE2	2.47	0.67
25:E1:183:VAL:HG23	25:E1:189:LEU:HA	1.75	0.67
31:P1:119:PHE:CD1	34:S1:120:HIS:N	2.44	0.67
12:J2:131:ARG:NH1	21:i2:563:G:O2'	2.28	0.67
21:i2:1036:A:N3	21:i2:1844:U:O2'	2.27	0.67
14:N3:29:THR:HG22	14:N3:31:ASP:H	1.58	0.67
21:i3:71:G:O2'	21:i3:72:C:OP1	2.13	0.67
22:A3:211:GLU:HB2	33:R3:81:ARG:HH21	1.59	0.67
21:i4:1121:G:N2	23:B4:202:GLN:O	2.24	0.67
25:E4:105:THR:HG23	25:E4:106:LYS:HG2	1.74	0.67
6:c5:63:ARG:HB3	26:F5:204:ARG:HH21	1.59	0.67
9:g5:146:SER:HA	9:g5:175:LYS:HD2	1.75	0.67
21:i5:127:C:N4	21:i5:180:G:O2'	2.27	0.67
21:i5:388:U:O4	21:i5:389:A:N6	2.24	0.67
21:i5:1776:G:N3	21:i5:1776:G:H3'	2.09	0.67
14:N6:133:ARG:HD2	30:L6:152:LYS:HB2	1.70	0.67
17:Y6:89:HIS:HB2	21:i6:574:A:H4'	1.76	0.67
21:i6:528:A:H2'	21:i6:529:A:O4'	1.94	0.67
24:D6:54:ARG:HE	24:D6:57:ASN:HD22	1.40	0.67
36:k1:2:PHE:HB2	36:k1:168:HIS:HE1	1.52	0.67
36:k1:85:LEU:HD21	36:k1:133:ALA:CB	2.25	0.67
36:k6:36:ILE:HA	36:k6:91:ILE:HG21	1.76	0.67
36:k6:95:GLN:HB2	36:k6:134:ILE:HD11	1.68	0.67
37:l5:156:ALA:HB2	37:l5:166:ILE:HG23	1.76	0.67
8:f1:96:LYS:HE2	21:i1:1307:U:O5'	1.94	0.67
10:C1:123:ARG:HD3	21:i1:1348:G:OP1	1.93	0.67
14:N1:30:SER:HB2	14:N1:66:VAL:O	1.94	0.67
19:b1:37:CYS:CB	19:b1:38:PRO:HD2	2.13	0.67
21:i1:1315:C:C4	21:i1:336:A:C2	2.78	0.67
21:i1:337:C:O2'	21:i1:339:A:OP1	2.09	0.67
21:i1:690:G:N3	21:i1:690:G:H3'	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1172:U:C5'	35:j1:14:LYS:NZ	2.58	0.67
8:f2:102:VAL:HB	13:M2:35:ILE:HD13	1.76	0.67
21:i2:527:C:H6	21:i2:527:C:O5'	1.78	0.67
25:E2:52:LEU:HD21	25:E2:111:VAL:HG11	1.76	0.67
33:R2:107:LYS:HA	33:R2:110:ASP:HB3	1.77	0.67
8:f3:95:ARG:HE	21:i3:1289:U:H5'	1.55	0.67
28:I3:207:GLY:CA	36:k1:12:SER:HB3	2.24	0.67
18:Z4:75:GLU:OE2	21:i5:193:C:C5'	2.43	0.67
23:B4:21:VAL:N	30:L5:31:GLU:N	2.42	0.67
4:X5:55:VAL:HA	20:e5:6:LEU:HD13	1.77	0.67
10:C5:270:THR:CG2	22:A5:69:GLU:CG	2.70	0.67
12:J5:131:ARG:NH1	21:i5:563:G:O2'	2.27	0.67
16:W5:3:ARG:HH22	16:W5:28:ARG:HD2	1.60	0.67
21:i6:71:G:O2'	21:i6:72:C:OP1	2.13	0.67
21:i6:1218:C:H1'	21:i6:1683:C:H42	1.60	0.67
21:i6:1622:U:O4	31:P6:120:SER:C	2.37	0.67
31:P6:98:ASN:ND2	31:P6:103:ASN:OD1	2.28	0.67
36:k2:109:ALA:N	36:k2:166:ASN:ND2	2.36	0.67
36:k2:170:LEU:CG	36:k2:171:ASN:N	2.47	0.67
18:Z1:81:GLY:C	21:i1:1598:G:O2'	2.38	0.67
21:i1:739:C:N3	21:i1:746:C:C4	2.63	0.67
21:i1:1173:A:OP1	35:j1:14:LYS:HG2	1.94	0.67
11:G2:139:SER:O	11:G2:142:ARG:CG	2.43	0.67
17:Y2:22:GLN:HE22	25:E2:56:LEU:HD12	1.58	0.67
23:B2:174:ARG:HG3	23:B2:175:GLU:HG2	1.77	0.67
4:X3:55:VAL:HA	20:e3:6:LEU:HD13	1.77	0.67
11:G3:54:GLY:HA3	11:G3:63:MET:HG2	1.76	0.67
21:i3:1750:C:O5'	21:i3:1750:C:H6	1.78	0.67
24:D3:210:ILE:HD11	33:R3:16:ILE:HD13	1.77	0.67
26:F3:54:GLY:O	32:Q3:125:ARG:NH2	2.27	0.67
28:I3:199:LEU:HA	28:I3:202:ILE:HD12	1.77	0.67
34:S3:16:LEU:HD21	34:S3:72:GLN:HE22	1.59	0.67
8:f4:97:LYS:CG	21:i4:1288:U:OP2	2.42	0.67
14:N4:30:SER:HB2	14:N4:66:VAL:O	1.94	0.67
17:Y4:89:HIS:HB2	21:i4:574:A:H4'	1.76	0.67
21:i4:380:G:N1	21:i4:383:G:OP2	2.27	0.67
21:i4:1849:G:C5'	37:I4:146:ARG:HH22	1.83	0.67
11:G5:212:LEU:O	11:G5:216:ARG:N	2.28	0.67
11:G6:153:VAL:O	11:G6:156:TYR:N	2.19	0.67
21:i6:950:C:H42	21:i6:976:G:H1	1.40	0.67
21:i6:1069:U:P	36:k6:18:LYS:NZ	2.67	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1445:U:O4	21:i6:1446:A:N6	2.27	0.67
23:B6:174:ARG:HG3	23:B6:175:GLU:HG2	1.77	0.67
36:k2:82:LEU:HD11	36:k2:169:TYR:HA	1.76	0.67
36:k4:83:ARG:HG2	36:k4:175:TRP:HZ3	1.55	0.67
36:k6:140:GLN:NE2	36:k6:141:HIS:CE1	2.60	0.67
37:l4:171:THR:O	37:l4:174:ILE:HG22	1.94	0.67
4:X1:55:VAL:HA	20:e1:6:LEU:HD13	1.77	0.67
8:f1:95:ARG:NE	21:i1:1289:U:C5'	2.21	0.67
9:g1:57:ARG:NH1	9:g1:92:LEU:O	2.28	0.67
11:G1:75:LEU:HD22	21:i1:1791:A:H4'	1.77	0.67
17:Y1:89:HIS:HB2	21:i1:574:A:H4'	1.76	0.67
21:i1:696:G:H1	21:i1:734:C:C5'	2.06	0.67
10:C2:270:THR:CG2	22:A2:69:GLU:CG	2.70	0.67
21:i2:71:G:O2'	21:i2:72:C:OP1	2.13	0.67
22:A2:89:LYS:HE2	33:R2:82:ASP:OD1	1.94	0.67
22:A2:211:GLU:HB2	33:R2:81:ARG:HH21	1.59	0.67
2:U3:66:ARG:NH1	2:U3:68:THR:OG1	2.28	0.67
14:N3:30:SER:HB2	14:N3:66:VAL:O	1.94	0.67
21:i3:1445:U:O4	21:i3:1446:A:N6	2.28	0.67
21:i3:1696:C:C5'	21:i3:1703:C:H4'	2.25	0.67
22:A3:210:ILE:CG1	22:A3:211:GLU:H	2.08	0.67
23:B3:174:ARG:HG3	23:B3:175:GLU:HG2	1.77	0.67
11:G4:143:LYS:HD2	21:i4:1778:C:C5'	2.07	0.67
23:B4:174:ARG:HG3	23:B4:175:GLU:HG2	1.77	0.67
33:R4:44:LYS:HG3	33:R4:47:ARG:HH22	1.60	0.67
23:B5:103:MET:HG2	23:B5:215:VAL:HG12	1.74	0.67
33:R5:107:LYS:HA	33:R5:110:ASP:HB3	1.77	0.67
34:S5:16:LEU:HD21	34:S5:72:GLN:HE22	1.59	0.67
8:f6:102:VAL:HB	13:M6:35:ILE:HD13	1.76	0.67
10:C6:101:SER:OG	10:C6:132:ASP:OD1	2.12	0.67
21:i6:13:C:C5'	21:i6:1356:G:O4'	2.41	0.67
21:i6:1183:A:H5'	35:j6:11:ARG:CG	2.25	0.67
26:F6:188:TYR:HA	26:F6:191:LYS:HB2	1.77	0.67
36:k2:170:LEU:HD23	36:k2:171:ASN:CA	2.24	0.67
36:k3:33:PHE:CD1	36:k3:92:LEU:CD1	2.77	0.67
37:l1:171:THR:O	37:l1:174:ILE:HG22	1.94	0.67
8:f1:96:LYS:CD	21:i1:1307:U:C6	2.76	0.67
10:C1:65:LYS:CA	10:C1:277:HIS:CE1	2.74	0.67
10:C1:68:ARG:HH22	10:C1:276:THR:C	1.97	0.67
21:i1:1036:A:N3	21:i1:1844:U:O2'	2.27	0.67
26:F1:188:TYR:HA	26:F1:191:LYS:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R1:107:LYS:HA	33:R1:110:ASP:HB3	1.77	0.67
14:N2:133:ARG:HD2	30:L2:152:LYS:HE3	1.72	0.67
18:Z2:81:GLY:C	21:i2:1598:G:O2'	2.38	0.67
21:i2:317:C:H6	21:i2:317:C:O5'	1.78	0.67
21:i2:1445:U:O4	21:i2:1446:A:N6	2.28	0.67
10:C3:65:LYS:CA	10:C3:277:HIS:CE1	2.74	0.67
11:G3:141:ILE:HG12	11:G3:141:ILE:O	1.93	0.67
21:i3:1047:C:H42	21:i3:1071:G:H1	1.42	0.67
33:R3:44:LYS:HG3	33:R3:47:ARG:HH22	1.60	0.67
21:i4:317:C:H6	21:i4:317:C:O5'	1.78	0.67
21:i4:1842:C:H3'	35:j4:4:LYS:HZ3	1.59	0.67
24:D4:54:ARG:HE	24:D4:57:ASN:HD22	1.41	0.67
8:f5:80:ARG:NE	21:i5:1509:U:O4	2.28	0.67
21:i5:172:U:O2	21:i5:336:A:O2'	2.11	0.67
21:i5:689:U:O5'	21:i5:689:U:H6	1.77	0.67
21:i5:1377:U:OP2	22:A5:102:ARG:CG	2.43	0.67
9:g6:57:ARG:NH1	9:g6:92:LEU:O	2.28	0.67
10:C6:145:LYS:CD	21:i6:1348:G:H4'	2.25	0.67
11:G6:139:SER:O	11:G6:142:ARG:CG	2.43	0.67
11:G6:141:ILE:HG13	11:G6:144:LEU:HD21	0.69	0.67
18:Z6:81:GLY:C	21:i6:1598:G:O2'	2.38	0.67
21:i6:127:C:N4	21:i6:180:G:O2'	2.27	0.67
21:i6:1376:A:O5'	22:A6:102:ARG:CD	2.43	0.67
21:i6:1848:U:H5''	37:l6:146:ARG:CZ	2.23	0.67
24:D6:107:TYR:HA	24:D6:110:LEU:HB2	1.77	0.67
33:R6:107:LYS:HA	33:R6:110:ASP:HB3	1.77	0.67
36:k1:11:VAL:CG1	36:k1:180:TYR:CE1	2.65	0.67
36:k1:82:LEU:CD1	36:k1:169:TYR:CA	2.73	0.67
36:k1:92:LEU:HD23	36:k1:93:PRO:HD2	1.75	0.67
36:k2:109:ALA:CA	36:k2:166:ASN:ND2	2.58	0.67
36:k3:33:PHE:CD1	36:k3:92:LEU:CG	2.78	0.67
37:l4:156:ALA:HB2	37:l4:166:ILE:HG23	1.76	0.67
10:C1:101:SER:OG	10:C1:132:ASP:OD1	2.12	0.67
10:C1:270:THR:CG2	22:A1:69:GLU:HG3	2.25	0.67
11:G1:54:GLY:HA3	11:G1:63:MET:HG2	1.75	0.67
21:i1:689:U:O5'	21:i1:689:U:H6	1.78	0.67
21:i1:1848:U:H5''	37:l1:146:ARG:HH12	1.59	0.67
8:f2:87:THR:CG2	8:f2:90:LYS:NZ	2.38	0.67
14:N2:29:THR:HG22	14:N2:31:ASP:H	1.58	0.67
20:e2:46:VAL:HG22	20:e2:49:PHE:HD1	1.59	0.67
21:i2:528:A:H2'	21:i2:529:A:O4'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:798:A:N6	21:i2:801:U:O5'	2.23	0.67
21:i2:1172:U:O3'	35:j2:10:MET:HE1	1.93	0.67
8:f3:96:LYS:CD	21:i3:1307:U:C6	2.76	0.67
14:N3:129:TYR:O	14:N3:134:VAL:HG23	1.91	0.67
21:i3:1619:A:H4'	31:P3:44:ARG:NH2	2.09	0.67
31:P3:45:LEU:CD1	31:P3:49:LEU:HD21	2.25	0.67
1:T4:82:ARG:NH1	21:i4:1589:A:O3'	2.28	0.67
4:X4:45:SER:HB3	21:i4:649:U:H1'	1.77	0.67
8:f5:93:HIS:HB3	21:i5:1304:U:C5'	2.18	0.67
8:f5:102:VAL:HB	13:M5:35:ILE:HD13	1.76	0.67
10:C5:275:LYS:O	10:C5:276:THR:HG23	1.96	0.67
14:N5:129:TYR:CD1	14:N5:134:VAL:HG11	2.21	0.67
14:N5:129:TYR:HA	14:N5:134:VAL:HG21	1.76	0.67
21:i5:528:A:H2'	21:i5:529:A:O4'	1.95	0.67
21:i5:1380:C:H1'	22:A5:110:ASN:HD21	1.60	0.67
13:M6:91:LEU:CD1	21:i6:1284:A:H61	2.06	0.67
21:i6:1300:U:C6	31:P6:51:ARG:CZ	2.78	0.67
31:P6:121:ILE:CD1	31:P6:123:TYR:CD2	2.74	0.67
36:k2:117:THR:HG21	36:k2:159:ASN:OD1	1.94	0.67
36:k4:116:LEU:HD11	36:k4:164:ILE:CG1	2.24	0.67
10:C1:235:ASN:ND2	21:i1:14:C:OP1	2.28	0.66
16:W1:3:ARG:HH22	16:W1:28:ARG:HD2	1.60	0.66
2:U2:66:ARG:NH1	2:U2:68:THR:OG1	2.28	0.66
21:i2:558:G:P	21:i2:558:G:H8	2.17	0.66
21:i2:1849:G:OP2	37:l2:146:ARG:NH2	2.28	0.66
31:P2:15:PHE:CZ	31:P2:112:ILE:CD1	2.78	0.66
15:O3:14:VAL:H	15:O3:15:ILE:HA	1.61	0.66
18:Z3:81:GLY:C	21:i3:1598:G:O2'	2.38	0.66
21:i3:1755:C:H1'	21:i3:1777:G:H22	1.59	0.66
21:i3:1829:G:P	37:l3:126:LYS:CE	2.82	0.66
2:U4:66:ARG:NH1	2:U4:68:THR:OG1	2.28	0.66
9:g4:57:ARG:NH1	9:g4:92:LEU:O	2.28	0.66
11:G4:54:GLY:HA3	11:G4:63:MET:HG2	1.76	0.66
21:i4:127:C:N4	21:i4:180:G:O2'	2.27	0.66
21:i4:1300:U:C6	31:P4:51:ARG:CZ	2.78	0.66
24:D4:210:ILE:HD11	33:R4:16:ILE:HD13	1.77	0.66
33:R4:107:LYS:HA	33:R4:110:ASP:HB3	1.76	0.66
2:U5:66:ARG:NH1	2:U5:68:THR:OG1	2.28	0.66
11:G5:54:GLY:HA3	11:G5:63:MET:HG2	1.75	0.66
18:Z5:49:LEU:HD11	34:S5:5:ILE:CG2	2.25	0.66
33:R5:44:LYS:HG3	33:R5:47:ARG:HH22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:189:GLY:HA3	21:i6:1355:C:O2	1.95	0.66
21:i6:1849:G:C6	37:l6:153:SER:HA	2.30	0.66
22:A6:54:THR:HG22	22:A6:162:PRO:HG2	1.78	0.66
29:K6:19:GLY:H	29:K6:92:ALA:HB2	1.58	0.66
36:k1:39:TRP:CD1	36:k1:90:PHE:CZ	2.83	0.66
36:k1:82:LEU:HD12	36:k1:169:TYR:O	1.94	0.66
36:k2:83:ARG:HH21	36:k2:175:TRP:CD1	2.13	0.66
36:k5:81:THR:HG22	36:k5:174:LEU:HD21	1.77	0.66
36:k5:170:LEU:HD23	36:k5:171:ASN:CG	2.19	0.66
9:g2:57:ARG:HA	32:Q2:102:GLU:HB2	1.78	0.66
10:C2:101:SER:OG	10:C2:132:ASP:OD1	2.12	0.66
11:G2:141:ILE:HG12	11:G2:141:ILE:O	1.93	0.66
14:N2:30:SER:HB2	14:N2:66:VAL:O	1.94	0.66
21:i2:1765:C:OP1	31:P5:11:THR:HG21	1.93	0.66
21:i2:1776:G:N3	21:i2:1776:G:H3'	2.10	0.66
10:C3:101:SER:OG	10:C3:132:ASP:OD1	2.12	0.66
14:N3:130:LYS:NZ	14:N3:140:LYS:HD2	2.11	0.66
8:f4:80:ARG:CZ	21:i4:1509:U:O4	2.43	0.66
16:W4:3:ARG:HH22	16:W4:28:ARG:HD2	1.60	0.66
21:i4:960:U:O2'	21:i4:962:A:N7	2.25	0.66
24:D4:198:ILE:HG23	24:D4:200:PRO:HD3	1.77	0.66
31:P4:98:ASN:ND2	31:P4:103:ASN:OD1	2.28	0.66
31:P4:121:ILE:HD13	34:S4:120:HIS:CE1	2.30	0.66
8:f5:105:TYR:CZ	8:f5:131:PHE:CB	2.75	0.66
8:f5:130:VAL:CG1	21:i5:1310:U:H5'	2.15	0.66
10:C5:235:ASN:ND2	21:i5:14:C:OP1	2.28	0.66
10:C5:270:THR:CG2	22:A5:69:GLU:HG3	2.25	0.66
14:N5:30:SER:HB2	14:N5:66:VAL:O	1.94	0.66
20:e5:25:LYS:HE2	21:i5:554:A:OP1	1.94	0.66
21:i5:1445:U:O4	21:i5:1446:A:N6	2.28	0.66
21:i5:1852:C:C5	35:j5:5:TRP:CG	2.83	0.66
24:D5:64:ARG:NE	29:K5:95:ARG:CZ	2.57	0.66
25:E5:75:LYS:O	25:E5:77:ARG:N	2.26	0.66
8:f6:96:LYS:O	21:i6:1288:U:C5'	2.40	0.66
11:G6:212:LEU:O	11:G6:216:ARG:N	2.28	0.66
36:k1:170:LEU:HD23	36:k1:171:ASN:CG	2.20	0.66
36:k2:83:ARG:NH2	36:k2:175:TRP:CG	2.62	0.66
37:l1:119:LYS:O	37:l1:120:ILE:CD1	2.42	0.66
37:l3:182:TRP:HE3	37:l3:183:PRO:HB3	1.61	0.66
21:i2:316:G:C2	21:i2:335:G:N2	2.63	0.66
24:D2:210:ILE:HD11	33:R2:16:ILE:HD13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z3:79:ILE:HG13	18:Z3:80:ARG:N	2.11	0.66
26:F3:191:LYS:HA	26:F3:194:ASP:HB2	1.78	0.66
31:P3:119:PHE:HE1	34:S3:119:ALA:HB1	1.46	0.66
10:C4:101:SER:OG	10:C4:132:ASP:OD1	2.12	0.66
10:C4:145:LYS:CG	21:i4:1348:G:H5'	2.26	0.66
11:G4:153:VAL:O	11:G4:156:TYR:N	2.19	0.66
21:i4:316:G:C5	21:i4:335:G:C2	2.80	0.66
21:i4:1445:U:O4	21:i4:1446:A:N6	2.28	0.66
28:I4:207:GLY:C	36:k2:12:SER:HB3	2.18	0.66
1:T5:82:ARG:NH1	21:i5:1589:A:O3'	2.28	0.66
2:U5:17:ILE:HG22	2:U5:95:SER:N	2.03	0.66
8:f5:96:LYS:O	21:i5:1288:U:C5'	2.40	0.66
11:G5:139:SER:O	11:G5:142:ARG:CG	2.43	0.66
17:Y5:88:LYS:HE2	17:Y5:99:LYS:HE2	1.78	0.66
33:R5:61:ILE:HG22	33:R5:66:VAL:HG12	1.77	0.66
33:R5:77:GLU:HG2	33:R5:81:ARG:HG3	1.78	0.66
9:g6:57:ARG:HA	32:Q6:102:GLU:HB2	1.78	0.66
37:l2:127:TYR:O	37:l2:169:ASP:CA	2.43	0.66
5:a1:97:PRO:O	5:a1:99:PRO:HD3	1.95	0.66
8:f1:97:LYS:CG	21:i1:1288:U:OP2	2.42	0.66
21:i1:1172:U:P	35:j1:14:LYS:HZ2	2.17	0.66
21:i1:1202:U:H5''	21:i1:1359:U:OP1	1.94	0.66
31:P1:121:ILE:HD13	34:S1:120:HIS:CE1	2.30	0.66
4:X2:45:SER:HB3	21:i2:649:U:H1'	1.78	0.66
15:O2:14:VAL:H	15:O2:15:ILE:HA	1.61	0.66
18:Z3:86:ALA:HB1	34:S3:3:LEU:CD1	2.26	0.66
21:i3:798:A:N6	21:i3:801:U:O5'	2.23	0.66
22:A3:89:LYS:HE2	33:R3:82:ASP:OD1	1.94	0.66
24:D3:198:ILE:HG23	24:D3:200:PRO:HD3	1.77	0.66
10:C4:275:LYS:O	10:C4:276:THR:HG23	1.96	0.66
20:e4:40:ARG:O	20:e4:44:ASN:ND2	2.29	0.66
24:D4:107:TYR:HA	24:D4:110:LEU:HB2	1.77	0.66
21:i5:847:A:N6	21:i5:848:U:O2	2.28	0.66
22:A5:89:LYS:HE2	33:R5:82:ASP:OD1	1.94	0.66
8:f6:96:LYS:HE2	21:i6:1307:U:O5'	1.94	0.66
21:i6:1776:G:N3	21:i6:1776:G:H3'	2.09	0.66
31:P6:34:MET:HE3	31:P6:46:ASN:HB2	1.78	0.66
36:k2:94:HIS:CG	36:k2:135:MET:HG2	2.30	0.66
37:l1:156:ALA:HB2	37:l1:166:ILE:HG23	1.76	0.66
37:l2:117:ILE:HD12	37:l2:174:ILE:HG13	1.75	0.66
37:l4:180:GLU:HB2	37:l4:184:GLU:OE1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:c1:63:ARG:HB3	26:F1:204:ARG:HH21	1.59	0.66
21:i1:526:A:H2	21:i1:560:A:H2	1.43	0.66
21:i1:1172:U:H4'	35:j1:10:MET:HE1	1.66	0.66
21:i1:1377:U:O5'	22:A1:102:ARG:NH2	2.28	0.66
22:A1:54:THR:HG22	22:A1:162:PRO:HG2	1.77	0.66
24:D1:210:ILE:HD11	33:R1:16:ILE:HD13	1.77	0.66
21:i2:12:U:O2'	21:i2:1356:G:C1'	2.41	0.66
21:i2:201:C:OP2	26:F5:184:SER:HB2	1.96	0.66
1:T3:82:ARG:NH1	21:i3:1589:A:O3'	2.28	0.66
9:g3:57:ARG:HA	32:Q3:102:GLU:HB2	1.78	0.66
5:a4:102:ARG:HB2	5:a4:103:PRO:HA	1.78	0.66
11:G4:189:ARG:NH1	21:i4:330:G:N7	2.43	0.66
21:i4:1069:U:P	36:k4:18:LYS:HZ1	2.13	0.66
21:i4:1829:G:OP2	37:l4:126:LYS:HE3	1.94	0.66
26:F4:137:GLN:CG	26:F4:204:ARG:N	2.58	0.66
4:X5:34:THR:O	4:X5:36:LEU:N	2.29	0.66
13:M5:14:VAL:CG1	13:M5:127:TYR:CD1	2.74	0.66
15:O5:14:VAL:H	15:O5:15:ILE:HA	1.61	0.66
18:Z5:79:ILE:HG13	18:Z5:80:ARG:N	2.11	0.66
21:i5:61:A:O2'	21:i5:317:C:O2	2.11	0.66
21:i5:1755:C:H1'	21:i5:1777:G:H22	1.59	0.66
28:I5:76:THR:HG22	28:I5:108:PRO:HG2	1.77	0.66
21:i6:1380:C:H1'	22:A6:110:ASN:ND2	2.08	0.66
21:i6:1588:A:O2'	21:i6:1589:A:O5'	2.13	0.66
36:k2:94:HIS:CG	36:k2:135:MET:HG3	2.30	0.66
36:k4:10:ASN:C	36:k4:56:HIS:HD1	2.04	0.66
37:l6:182:TRP:HE3	37:l6:183:PRO:HB3	1.60	0.66
8:f1:80:ARG:HD3	21:i1:1327:G:O2'	1.96	0.66
21:i1:71:G:O2'	21:i1:72:C:OP1	2.13	0.66
21:i1:127:C:N4	21:i1:180:G:O2'	2.27	0.66
21:i1:368:U:N3	36:k6:109:ALA:HB1	2.10	0.66
21:i1:1300:U:C6	31:P1:51:ARG:CZ	2.78	0.66
21:i1:1445:U:O4	21:i1:1446:A:N6	2.28	0.66
28:I1:76:THR:HG22	28:I1:108:PRO:HG2	1.77	0.66
28:I1:141:ARG:NH1	26:F6:191:LYS:HD3	2.10	0.66
30:L1:30:LYS:HE2	23:B6:21:VAL:HB	1.77	0.66
31:P1:34:MET:O	31:P1:42:ARG:HD3	1.95	0.66
34:S1:108:ARG:CZ	21:i3:1772:C:C2'	2.71	0.66
6:c2:31:ARG:HA	6:c2:43:ILE:HA	1.78	0.66
8:f2:96:LYS:CD	21:i2:1307:U:C6	2.76	0.66
11:G2:54:GLY:HA3	11:G2:63:MET:HG2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M2:27:ILE:CG2	29:K2:84:HIS:ND1	2.46	0.66
18:Z2:82:SER:HB3	21:i2:1598:G:C4'	2.26	0.66
21:i2:318:A:N3	21:i2:333:G:N2	2.42	0.66
22:A2:210:ILE:CG1	22:A2:211:GLU:H	2.08	0.66
27:H2:191:GLU:HG3	27:H2:193:GLN:H	1.61	0.66
28:I2:123:ARG:NH2	15:O5:65:ASP:HB3	2.09	0.66
31:P2:98:ASN:ND2	31:P2:103:ASN:OD1	2.28	0.66
10:C3:270:THR:CG2	22:A3:69:GLU:HG3	2.25	0.66
21:i3:847:A:N6	21:i3:848:U:O2	2.29	0.66
21:i3:1218:C:H1'	21:i3:1683:C:H42	1.60	0.66
31:P3:98:ASN:ND2	31:P3:103:ASN:OD1	2.28	0.66
4:X4:34:THR:O	4:X4:36:LEU:N	2.29	0.66
21:i4:1784:G:H2'	21:i4:1784:G:N3	2.08	0.66
6:c5:31:ARG:HA	6:c5:43:ILE:HA	1.78	0.66
8:f5:96:LYS:CD	21:i5:1307:U:C6	2.76	0.66
14:N5:141:TYR:CD1	14:N5:146:ALA:HB2	2.31	0.66
2:U6:66:ARG:NH1	2:U6:68:THR:OG1	2.28	0.66
10:C6:142:LYS:HD2	10:C6:157:LEU:CB	2.25	0.66
20:e6:45:VAL:HB	21:i6:535:G:O4'	1.96	0.66
23:B6:130:THR:OG1	23:B6:178:THR:O	2.14	0.66
25:E6:52:LEU:HD21	25:E6:111:VAL:HG11	1.76	0.66
31:P6:96:VAL:HG22	31:P6:116:LEU:CD1	1.80	0.66
37:l1:182:TRP:HE3	37:l1:183:PRO:HB3	1.61	0.66
37:l5:171:THR:O	37:l5:174:ILE:HG22	1.94	0.66
2:U1:66:ARG:NH1	2:U1:68:THR:OG1	2.28	0.66
17:Y1:88:LYS:HE2	17:Y1:99:LYS:HE2	1.77	0.66
18:Z1:86:ALA:HB1	34:S1:3:LEU:CD1	2.26	0.66
21:i1:1218:C:H1'	21:i1:1683:C:H42	1.60	0.66
21:i1:1849:G:OP2	37:l1:146:ARG:NH2	2.29	0.66
10:C2:145:LYS:CG	21:i2:1348:G:C5'	2.44	0.66
21:i2:1377:U:O4	22:A2:102:ARG:NH2	2.28	0.66
21:i2:1849:G:C5	37:l2:149:ALA:HB1	2.24	0.66
31:P2:121:ILE:HD13	34:S2:120:HIS:CE1	2.30	0.66
10:C3:235:ASN:ND2	21:i3:14:C:OP1	2.29	0.66
14:N3:129:TYR:CA	14:N3:134:VAL:HG22	2.17	0.66
18:Z3:82:SER:HB3	21:i3:1598:G:C4'	2.26	0.66
10:C4:270:THR:CG2	22:A4:69:GLU:HG3	2.26	0.66
12:J4:131:ARG:NH1	21:i4:563:G:O2'	2.27	0.66
21:i4:847:A:N6	21:i4:848:U:O2	2.29	0.66
21:i4:1703:C:O5'	21:i4:1703:C:H6	1.79	0.66
29:K4:5:LYS:HA	29:K4:8:ARG:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:135:LEU:HB3	14:N5:136:PRO:HD2	1.77	0.66
21:i5:1849:G:H5'	37:l5:146:ARG:CZ	2.22	0.66
10:C6:235:ASN:ND2	21:i6:14:C:OP1	2.29	0.66
14:N6:133:ARG:NE	30:L6:152:LYS:HB3	2.10	0.66
22:A6:210:ILE:CG1	22:A6:211:GLU:H	2.08	0.66
27:H6:191:GLU:HG3	27:H6:193:GLN:H	1.61	0.66
28:I6:76:THR:HG22	28:I6:108:PRO:HG2	1.77	0.66
36:k6:95:GLN:CB	36:k6:134:ILE:HD12	2.17	0.66
37:l2:180:GLU:CB	37:l2:181:LYS:HB3	2.26	0.66
37:l3:180:GLU:HB2	37:l3:184:GLU:OE1	1.96	0.66
37:l5:180:GLU:CB	37:l5:181:LYS:HB3	2.26	0.66
37:l6:180:GLU:HB2	37:l6:184:GLU:OE1	1.96	0.66
37:l6:181:LYS:HA	37:l6:182:TRP:O	1.96	0.66
15:O1:14:VAL:H	15:O1:15:ILE:HA	1.60	0.66
21:i1:556:U:C5'	21:i1:589:G:OP2	2.43	0.66
21:i1:1069:U:C5'	36:k1:16:GLN:O	2.44	0.66
21:i1:1172:U:H5'	35:j1:14:LYS:HD3	0.67	0.66
27:H1:191:GLU:HG3	27:H1:193:GLN:H	1.61	0.66
33:R1:44:LYS:HG3	33:R1:47:ARG:HH22	1.60	0.66
21:i2:212:C:O5'	21:i2:212:C:H6	1.79	0.66
21:i2:368:U:O2	36:k5:109:ALA:HB2	1.96	0.66
24:D2:64:ARG:NE	29:K2:95:ARG:CZ	2.57	0.66
24:D2:198:ILE:HG23	24:D2:200:PRO:HD3	1.77	0.66
26:F2:137:GLN:CG	26:F2:204:ARG:N	2.58	0.66
10:C3:273:LEU:CB	10:C3:280:VAL:HG11	2.02	0.66
11:G3:139:SER:O	11:G3:142:ARG:CG	2.43	0.66
26:F3:120:GLY:HA3	26:F3:146:ARG:HE	1.61	0.66
21:i4:526:A:N1	21:i4:560:A:C2	2.57	0.66
21:i4:795:A:H62	27:H4:109:ARG:HH22	1.41	0.66
8:f5:80:ARG:HD3	21:i5:1327:G:O2'	1.96	0.66
18:Z5:81:GLY:C	21:i5:1598:G:O2'	2.38	0.66
23:B5:174:ARG:HG3	23:B5:175:GLU:HG2	1.77	0.66
27:H5:191:GLU:HG3	27:H5:193:GLN:H	1.61	0.66
31:P5:98:ASN:ND2	31:P5:103:ASN:OD1	2.28	0.66
16:W6:3:ARG:HH22	16:W6:28:ARG:HD2	1.60	0.66
21:i6:1750:C:O5'	21:i6:1750:C:H6	1.78	0.66
31:P6:15:PHE:CZ	31:P6:112:ILE:CD1	2.78	0.66
36:k1:39:TRP:CD1	36:k1:90:PHE:HZ	2.13	0.66
36:k3:79:TYR:HB3	36:k3:145:VAL:HG11	1.78	0.66
36:k6:83:ARG:NH2	36:k6:175:TRP:NE1	2.42	0.66
37:l1:180:GLU:CB	37:l1:181:LYS:HB3	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I2:182:TRP:HE3	37:I2:183:PRO:HB3	1.61	0.66
11:G1:212:LEU:O	11:G1:216:ARG:N	2.28	0.66
21:i1:1210:G:H1	21:i1:1689:C:N4	1.94	0.66
24:D1:198:ILE:HG23	24:D1:200:PRO:HD3	1.77	0.66
5:a2:102:ARG:HB2	5:a2:103:PRO:HA	1.78	0.66
8:f2:86:THR:CG2	21:i2:1269:G:P	2.84	0.66
10:C2:270:THR:CG2	22:A2:69:GLU:HG3	2.25	0.66
18:Z2:79:ILE:HG13	18:Z2:80:ARG:N	2.11	0.66
21:i2:187:G:N2	21:i2:213:G:C4	2.64	0.66
21:i2:1757:G:N3	21:i2:1776:G:O6	2.29	0.66
26:F2:120:GLY:HA3	26:F2:146:ARG:HE	1.61	0.66
4:X3:101:LEU:HD13	4:X3:124:LYS:HD3	1.78	0.66
6:c3:31:ARG:HA	6:c3:43:ILE:HA	1.78	0.66
8:f3:105:TYR:CZ	8:f3:131:PHE:CB	2.75	0.66
16:W3:3:ARG:HH22	16:W3:28:ARG:HD2	1.60	0.66
26:F3:137:GLN:O	26:F3:138:ALA:HB2	1.96	0.66
31:P3:121:ILE:HD13	34:S3:120:HIS:CE1	2.30	0.66
9:g4:122:SER:OG	9:g4:130:LYS:O	2.14	0.66
14:N4:141:TYR:CD1	14:N4:146:ALA:HB2	2.31	0.66
21:i4:71:G:O2'	21:i4:72:C:OP1	2.13	0.66
21:i4:1218:C:H1'	21:i4:1683:C:H42	1.60	0.66
10:C5:145:LYS:HG3	21:i5:1348:G:H5'	1.78	0.66
21:i5:71:G:O2'	21:i5:72:C:OP1	2.12	0.66
26:F5:188:TYR:HA	26:F5:191:LYS:HB2	1.77	0.66
3:V6:36:VAL:HG12	3:V6:37:ALA:H	1.61	0.66
15:O6:130:GLU:HG2	15:O6:131:ASP:H	1.60	0.66
21:i6:847:A:N6	21:i6:848:U:O2	2.29	0.66
24:D6:210:ILE:HD11	33:R6:16:ILE:HD13	1.77	0.66
31:P6:121:ILE:HD13	34:S6:120:HIS:CE1	2.30	0.66
20:e1:46:VAL:N	20:e1:47:PRO:HD3	2.09	0.66
22:A1:89:LYS:HE2	33:R1:82:ASP:OD1	1.94	0.66
23:B1:174:ARG:HG3	23:B1:175:GLU:HG2	1.77	0.66
26:F1:137:GLN:CG	26:F1:204:ARG:N	2.58	0.66
29:K1:5:LYS:HA	29:K1:8:ARG:HB2	1.78	0.66
32:Q1:4:LYS:HZ2	32:Q1:99:TYR:CB	2.09	0.66
8:f2:95:ARG:HE	21:i2:1289:U:H5'	1.54	0.66
14:N2:141:TYR:CD1	14:N2:146:ALA:HB2	2.31	0.66
15:O2:130:GLU:HG2	15:O2:131:ASP:H	1.61	0.66
16:W2:3:ARG:HH22	16:W2:28:ARG:HD2	1.60	0.66
21:i2:455:A:O2'	21:i2:1735:A:N3	2.29	0.66
21:i2:847:A:N6	21:i2:848:U:O2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1218:C:H1'	21:i2:1683:C:H42	1.60	0.66
31:P2:15:PHE:HE2	31:P2:112:ILE:CD1	2.07	0.66
4:X3:45:SER:HB3	21:i3:649:U:H1'	1.78	0.66
6:c3:14:VAL:HA	6:c3:32:VAL:HG12	1.77	0.66
8:f3:105:TYR:HD2	8:f3:106:TYR:CD2	2.13	0.66
20:e3:40:ARG:O	20:e3:44:ASN:ND2	2.29	0.66
21:i3:1621:U:C4'	31:P3:115:TYR:CE1	2.79	0.66
21:i3:1828:C:O2'	37:l3:155:GLY:N	2.29	0.66
21:i3:1842:C:OP2	35:j3:2:ARG:HD2	1.94	0.66
24:D3:106:ARG:HG3	24:D3:107:TYR:H	1.61	0.66
27:H3:191:GLU:HG3	27:H3:193:GLN:H	1.61	0.66
10:C4:235:ASN:ND2	21:i4:14:C:OP1	2.28	0.66
15:O4:14:VAL:H	15:O4:15:ILE:HA	1.61	0.66
18:Z4:86:ALA:HB1	34:S4:3:LEU:CD1	2.26	0.66
26:F4:18:LYS:HE3	26:F4:46:ALA:H	1.61	0.66
8:f5:96:LYS:HE2	21:i5:1307:U:O5'	1.95	0.66
9:g5:57:ARG:HA	32:Q5:102:GLU:HB2	1.78	0.66
18:Z5:86:ALA:HB1	34:S5:3:LEU:CD1	2.26	0.66
21:i5:1621:U:C4'	31:P5:115:TYR:CE1	2.79	0.66
2:U6:17:ILE:CG2	2:U6:94:PRO:CA	2.49	0.66
4:X6:101:LEU:HD13	4:X6:124:LYS:HD3	1.78	0.66
18:Z6:66:LYS:CB	18:Z6:111:ARG:HD2	2.26	0.66
20:e6:40:ARG:O	20:e6:44:ASN:ND2	2.29	0.66
21:i6:1700:C:N3	21:i6:1834:A:N6	2.43	0.66
26:F6:137:GLN:CB	26:F6:204:ARG:CA	2.73	0.66
26:F6:137:GLN:O	26:F6:138:ALA:HB2	1.96	0.66
33:R6:71:ILE:C	33:R6:71:ILE:HD13	2.20	0.66
36:k3:86:HIS:CG	36:k3:141:HIS:CD2	2.84	0.66
36:k5:83:ARG:CG	36:k5:175:TRP:CZ3	2.79	0.66
37:l3:180:GLU:HA	37:l3:181:LYS:CB	2.25	0.66
37:l4:119:LYS:O	37:l4:120:ILE:CD1	2.42	0.66
37:l4:182:TRP:HE3	37:l4:183:PRO:HB3	1.61	0.66
15:O1:130:GLU:HG2	15:O1:131:ASP:H	1.61	0.65
19:b1:37:CYS:O	19:b1:77:CYS:SG	2.54	0.65
26:F1:191:LYS:HA	26:F1:194:ASP:HB2	1.78	0.65
8:f2:105:TYR:OH	8:f2:131:PHE:CG	2.48	0.65
11:G2:187:HIS:NE2	21:i2:317:C:N4	2.42	0.65
18:Z2:66:LYS:CB	18:Z2:111:ARG:HD2	2.26	0.65
21:i2:1703:C:H6	21:i2:1703:C:O5'	1.79	0.65
29:K2:5:LYS:HA	29:K2:8:ARG:HB2	1.78	0.65
33:R2:44:LYS:HG3	33:R2:47:ARG:HH22	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:17:ILE:HG22	2:U3:95:SER:N	2.03	0.65
17:Y3:88:LYS:HE2	17:Y3:99:LYS:HE2	1.77	0.65
21:i3:187:G:C2	21:i3:213:G:N3	2.64	0.65
29:K3:5:LYS:HA	29:K3:8:ARG:HB2	1.78	0.65
6:c4:14:VAL:HA	6:c4:32:VAL:HG12	1.77	0.65
21:i4:528:A:C2	21:i4:558:G:N2	2.64	0.65
21:i4:1621:U:O4'	31:P4:115:TYR:CE1	2.46	0.65
10:C5:68:ARG:HH22	10:C5:276:THR:C	1.97	0.65
10:C5:94:ILE:HG21	10:C5:159:LYS:HB3	1.78	0.65
11:G5:187:HIS:CE1	21:i5:317:C:H41	2.12	0.65
21:i5:331:C:O5'	21:i5:331:C:H6	1.79	0.65
24:D5:198:ILE:HG23	24:D5:200:PRO:HD3	1.77	0.65
31:P5:15:PHE:CG	31:P5:109:PRO:O	2.49	0.65
10:C6:188:CYS:SG	10:C6:189:GLY:N	2.69	0.65
15:O6:14:VAL:H	15:O6:15:ILE:HA	1.61	0.65
18:Z6:86:ALA:HB1	34:S6:3:LEU:CD1	2.26	0.65
21:i6:333:G:H8	21:i6:333:G:O5'	1.79	0.65
21:i6:739:C:H2'	21:i6:746:C:H42	1.60	0.65
26:F6:120:GLY:HA3	26:F6:146:ARG:HE	1.62	0.65
36:k1:170:LEU:CG	36:k1:171:ASN:H	2.08	0.65
36:k3:39:TRP:NE1	36:k3:90:PHE:HZ	1.92	0.65
36:k6:36:ILE:CB	36:k6:91:ILE:HG21	2.26	0.65
37:l3:181:LYS:HA	37:l3:182:TRP:O	1.96	0.65
37:l5:182:TRP:HE3	37:l5:183:PRO:HB3	1.61	0.65
4:X1:34:THR:O	4:X1:36:LEU:N	2.29	0.65
9:g1:57:ARG:HA	32:Q1:102:GLU:HB2	1.78	0.65
9:g1:122:SER:OG	9:g1:130:LYS:O	2.14	0.65
20:e1:45:VAL:CG2	21:i1:535:G:O3'	2.44	0.65
21:i1:315:C:N4	21:i1:336:A:C2	2.64	0.65
21:i1:847:A:N6	21:i1:848:U:O2	2.29	0.65
21:i1:1144:A:OP1	21:i1:1355:C:C5	2.50	0.65
23:B1:130:THR:OG1	23:B1:178:THR:O	2.14	0.65
33:R1:77:GLU:HG2	33:R1:81:ARG:HG3	1.78	0.65
4:X2:91:LEU:HD21	20:e2:6:LEU:HG	1.78	0.65
14:N2:133:ARG:NH1	30:L2:152:LYS:O	2.29	0.65
21:i2:1621:U:C4'	31:P2:115:TYR:CE1	2.79	0.65
26:F2:198:ARG:HH12	28:I4:146:GLN:HE21	0.68	0.65
10:C3:94:ILE:HG21	10:C3:159:LYS:HB3	1.78	0.65
14:N3:132:LYS:HA	30:L3:152:LYS:HZ2	1.61	0.65
15:O3:130:GLU:HG2	15:O3:131:ASP:H	1.61	0.65
16:W3:118:ARG:NE	21:i3:735:C:HO2'	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e3:46:VAL:HG22	20:e3:49:PHE:HD1	1.60	0.65
21:i3:1852:C:OP2	35:j3:1:MET:CA	2.45	0.65
23:B3:130:THR:OG1	23:B3:178:THR:O	2.14	0.65
26:F3:137:GLN:CG	26:F3:204:ARG:N	2.58	0.65
33:R3:77:GLU:HG2	33:R3:81:ARG:HG3	1.78	0.65
8:f4:96:LYS:HE2	21:i4:1307:U:O5'	1.94	0.65
20:e4:45:VAL:CB	21:i4:535:G:C4'	2.69	0.65
24:D4:106:ARG:HG3	24:D4:107:TYR:H	1.61	0.65
26:F4:188:TYR:HA	26:F4:191:LYS:HB2	1.77	0.65
11:G5:66:GLY:HA3	21:i5:1745:A:C8	2.31	0.65
31:P5:121:ILE:HD13	34:S5:120:HIS:CE1	2.30	0.65
5:a6:102:ARG:HB2	5:a6:103:PRO:HA	1.78	0.65
14:N6:141:TYR:CD1	14:N6:146:ALA:HB2	2.31	0.65
24:D6:106:ARG:HG3	24:D6:107:TYR:H	1.61	0.65
25:E6:42:LEU:HD21	25:E6:47:PHE:HB2	1.79	0.65
29:K6:5:LYS:HA	29:K6:8:ARG:HB2	1.78	0.65
36:k2:86:HIS:CD2	36:k2:141:HIS:CA	2.79	0.65
36:k4:7:GLU:OE1	36:k4:177:MET:CG	2.42	0.65
36:k5:39:TRP:CD1	36:k5:90:PHE:CE1	2.84	0.65
36:k6:39:TRP:CD1	36:k6:90:PHE:HZ	2.12	0.65
36:k6:95:GLN:CB	36:k6:164:ILE:CD1	2.74	0.65
37:l4:181:LYS:HA	37:l4:182:TRP:O	1.96	0.65
8:f1:80:ARG:NE	21:i1:1509:U:O4	2.30	0.65
10:C1:94:ILE:HG21	10:C1:159:LYS:HB3	1.79	0.65
13:M1:49:LEU:HG	13:M1:114:TYR:OH	1.96	0.65
21:i1:1047:C:H42	21:i1:1071:G:H1	1.42	0.65
1:T2:82:ARG:NH1	21:i2:1589:A:O3'	2.28	0.65
20:e2:45:VAL:HB	21:i2:535:G:H4'	1.78	0.65
21:i2:1852:C:C6	35:j2:5:TRP:CD1	2.84	0.65
33:R2:75:GLU:OE1	33:R2:75:GLU:HA	1.96	0.65
8:f3:80:ARG:NH2	21:i3:1503:C:C1'	2.60	0.65
11:G3:212:LEU:O	11:G3:216:ARG:N	2.28	0.65
14:N3:141:TYR:CD1	14:N3:146:ALA:HB2	2.31	0.65
21:i3:1377:U:OP2	22:A3:102:ARG:CG	2.45	0.65
21:i3:1707:U:O2	37:l3:153:SER:OG	2.14	0.65
25:E3:75:LYS:O	25:E3:77:ARG:N	2.26	0.65
1:T4:84:ARG:NH2	21:i4:1605:G:OP1	2.30	0.65
3:V4:36:VAL:HG12	3:V4:37:ALA:H	1.61	0.65
5:a4:97:PRO:O	5:a4:99:PRO:HD3	1.96	0.65
6:c4:63:ARG:HB3	26:F4:204:ARG:HH21	1.59	0.65
10:C4:117:ARG:NE	21:i4:1204:A:OP1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:130:GLU:HG2	15:O4:131:ASP:H	1.61	0.65
17:Y4:127:ALA:HA	17:Y4:130:LYS:HD3	1.77	0.65
21:i4:1717:C:H4'	35:j4:21:ARG:HD2	1.79	0.65
22:A4:210:ILE:CG1	22:A4:211:GLU:H	2.08	0.65
23:B4:22:VAL:N	30:L5:31:GLU:OE2	2.30	0.65
27:H4:191:GLU:HG3	27:H4:193:GLN:H	1.61	0.65
22:A5:210:ILE:CG1	22:A5:211:GLU:H	2.08	0.65
26:F5:18:LYS:HE3	26:F5:46:ALA:H	1.61	0.65
24:D6:54:ARG:NE	24:D6:57:ASN:HD22	1.95	0.65
33:R6:44:LYS:HG3	33:R6:47:ARG:HH22	1.60	0.65
36:k4:96:GLN:NE2	36:k4:122:LYS:CG	2.59	0.65
37:l1:180:GLU:HB2	37:l1:184:GLU:OE1	1.96	0.65
37:l3:180:GLU:CB	37:l3:181:LYS:HB3	2.26	0.65
6:c1:31:ARG:HA	6:c1:43:ILE:HA	1.78	0.65
31:P1:15:PHE:HE2	31:P1:112:ILE:CD1	2.07	0.65
17:Y2:88:LYS:HE2	17:Y2:99:LYS:HE2	1.77	0.65
21:i2:1750:C:O5'	21:i2:1750:C:H6	1.79	0.65
4:X3:34:THR:O	4:X3:36:LEU:N	2.29	0.65
10:C3:270:THR:CG2	22:A3:69:GLU:CG	2.70	0.65
17:Y3:127:ALA:HA	17:Y3:130:LYS:HD3	1.77	0.65
18:Z3:41:ARG:N	21:i6:211:G:OP1	2.29	0.65
18:Z3:66:LYS:CB	18:Z3:111:ARG:HD2	2.26	0.65
21:i3:12:U:HO2'	21:i3:1356:G:C2'	2.08	0.65
22:A3:2:SER:HB2	22:A3:59:LEU:HD21	1.79	0.65
10:C4:188:CYS:SG	10:C4:189:GLY:N	2.69	0.65
17:Y4:88:LYS:HE2	17:Y4:99:LYS:HE2	1.78	0.65
17:Y4:109:GLU:OE2	17:Y4:113:ARG:NE	2.30	0.65
18:Z4:51:ASP:OD1	18:Z4:52:LYS:N	2.30	0.65
31:P4:96:VAL:CG2	31:P4:116:LEU:HD13	1.87	0.65
3:V5:36:VAL:HG12	3:V5:37:ALA:H	1.61	0.65
21:i5:1218:C:H1'	21:i5:1683:C:H42	1.60	0.65
24:D5:106:ARG:HG3	24:D5:107:TYR:H	1.61	0.65
6:c6:31:ARG:HA	6:c6:43:ILE:HA	1.78	0.65
21:i6:1621:U:C4'	31:P6:115:TYR:HE1	2.10	0.65
21:i6:1703:C:O5'	21:i6:1703:C:H6	1.79	0.65
36:k1:10:ASN:CA	36:k1:56:HIS:HE1	1.77	0.65
36:k1:170:LEU:CD2	36:k1:171:ASN:H	2.08	0.65
37:l1:178:ILE:HD12	37:l1:190:ILE:HG21	0.65	0.65
37:l1:181:LYS:HA	37:l1:182:TRP:O	1.96	0.65
37:l2:180:GLU:HB2	37:l2:184:GLU:OE1	1.95	0.65
37:l2:181:LYS:HA	37:l2:182:TRP:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l6:124:LYS:O	37:l6:125:LYS:HB2	1.97	0.65
13:M1:27:ILE:CG2	29:K1:84:HIS:ND1	2.46	0.65
14:N1:141:TYR:CD1	14:N1:146:ALA:HB2	2.31	0.65
17:Y1:127:ALA:HA	17:Y1:130:LYS:HD3	1.77	0.65
18:Z1:79:ILE:HG13	18:Z1:80:ARG:N	2.11	0.65
21:i1:1757:G:N3	21:i1:1776:G:O6	2.29	0.65
21:i1:1842:C:P	35:j1:4:LYS:CB	2.84	0.65
10:C2:188:CYS:SG	10:C2:189:GLY:N	2.69	0.65
11:G2:212:LEU:O	11:G2:216:ARG:N	2.28	0.65
16:W2:22:LYS:HA	19:b2:2:PRO:HB3	1.79	0.65
21:i2:1816:G:N2	35:j2:20:MET:HE3	2.09	0.65
30:L2:73:LEU:O	30:L2:128:VAL:N	2.29	0.65
30:L2:125:ILE:HG22	30:L2:146:THR:OG1	1.96	0.65
11:G3:189:ARG:NH2	21:i3:331:C:H41	1.94	0.65
21:i3:315:C:C4	21:i3:336:A:C2	2.83	0.65
11:G4:143:LYS:CG	21:i4:1778:C:C5'	2.45	0.65
11:G4:186:GLN:NE2	21:i4:331:C:C4	2.64	0.65
20:e5:45:VAL:CG2	21:i5:535:G:C1'	2.74	0.65
21:i5:313:A:O2'	21:i5:314:U:P	2.54	0.65
21:i5:1464:C:OP2	33:R5:60:ARG:NH1	2.28	0.65
24:D5:107:TYR:HA	24:D5:110:LEU:HB2	1.78	0.65
25:E5:71:LYS:HG3	25:E5:91:SER:HB2	1.79	0.65
26:F5:137:GLN:CG	26:F5:204:ARG:N	2.58	0.65
4:X6:34:THR:O	4:X6:36:LEU:N	2.29	0.65
10:C6:270:THR:CG2	22:A6:69:GLU:HG3	2.25	0.65
16:W6:22:LYS:HA	19:b6:2:PRO:HB3	1.79	0.65
18:Z6:70:PRO:HG2	18:Z6:88:LEU:HD13	1.60	0.65
18:Z6:82:SER:HB3	21:i6:1598:G:C4'	2.26	0.65
26:F6:18:LYS:HE3	26:F6:46:ALA:H	1.61	0.65
33:R6:69:ILE:O	33:R6:69:ILE:HD13	1.96	0.65
36:k3:94:HIS:CG	36:k3:135:MET:HG3	2.31	0.65
36:k5:10:ASN:C	36:k5:56:HIS:HD1	2.04	0.65
3:V1:19:ALA:O	16:W1:23:ARG:NH2	2.30	0.65
10:C1:125:LYS:HE3	21:i1:1357:A:OP1	1.97	0.65
21:i1:691:G:H3'	21:i1:692:G:C5'	2.25	0.65
21:i1:960:U:O2'	21:i1:962:A:N7	2.25	0.65
21:i1:1378:A:OP1	22:A1:132:GLN:CD	2.39	0.65
21:i1:1588:A:O2'	21:i1:1589:A:O5'	2.14	0.65
21:i1:1765:C:OP2	31:P6:11:THR:N	2.22	0.65
22:A1:210:ILE:CG1	22:A1:211:GLU:H	2.08	0.65
24:D1:107:TYR:HA	24:D1:110:LEU:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F1:18:LYS:HE3	26:F1:46:ALA:H	1.61	0.65
31:P1:96:VAL:HG21	31:P1:116:LEU:HD11	1.59	0.65
15:O2:66:ARG:CZ	28:I4:125:LYS:HD2	2.26	0.65
20:e2:40:ARG:O	20:e2:44:ASN:ND2	2.29	0.65
22:A2:211:GLU:CB	33:R2:81:ARG:HH21	2.05	0.65
23:B2:130:THR:OG1	23:B2:178:THR:O	2.14	0.65
26:F2:137:GLN:O	26:F2:138:ALA:HB2	1.96	0.65
8:f3:86:THR:CG2	21:i3:1269:G:P	2.84	0.65
13:M3:27:ILE:CG2	29:K3:84:HIS:ND1	2.46	0.65
21:i3:1175:G:OP2	35:j3:21:ARG:NH2	2.25	0.65
24:D3:54:ARG:NE	24:D3:57:ASN:HD22	1.95	0.65
30:L3:73:LEU:O	30:L3:128:VAL:N	2.30	0.65
31:P3:98:ASN:O	31:P3:122:THR:OG1	1.99	0.65
8:f4:80:ARG:CZ	21:i4:1509:U:C4	2.79	0.65
9:g4:57:ARG:HA	32:Q4:102:GLU:HB2	1.78	0.65
18:Z4:82:SER:HB3	21:i4:1598:G:C4'	2.26	0.65
21:i4:1842:C:C3'	35:j4:4:LYS:HZ1	2.08	0.65
8:f5:86:THR:CG2	21:i5:1269:G:P	2.84	0.65
10:C5:188:CYS:SG	10:C5:189:GLY:N	2.69	0.65
18:Z5:66:LYS:CB	18:Z5:111:ARG:HD2	2.26	0.65
21:i5:1750:C:O5'	21:i5:1750:C:H6	1.79	0.65
24:D5:210:ILE:HD11	33:R5:16:ILE:HD13	1.77	0.65
26:F5:137:GLN:O	26:F5:138:ALA:HB2	1.96	0.65
32:Q5:93:VAL:HG13	32:Q5:105:LYS:HG3	1.79	0.65
1:T6:84:ARG:NH2	21:i6:1605:G:OP1	2.29	0.65
10:C6:94:ILE:HG21	10:C6:159:LYS:HB3	1.79	0.65
10:C6:94:ILE:HD11	10:C6:98:LEU:HD12	1.79	0.65
18:Z6:49:LEU:HD11	34:S6:5:ILE:CG2	2.24	0.65
21:i6:130:G:C5'	21:i6:214:U:O4	2.45	0.65
21:i6:1143:A:C2'	21:i6:1355:C:H42	2.09	0.65
37:l1:124:LYS:O	37:l1:125:LYS:HB2	1.97	0.65
37:l6:178:ILE:HD12	37:l6:190:ILE:HG21	0.65	0.65
6:c1:14:VAL:HA	6:c1:32:VAL:HG12	1.77	0.65
11:G1:189:ARG:CZ	21:i1:330:G:N7	2.59	0.65
16:W1:22:LYS:HA	19:b1:2:PRO:HB3	1.79	0.65
21:i1:1103:C:OP1	23:B1:157:GLN:NE2	2.25	0.65
1:T2:84:ARG:NH2	21:i2:1605:G:OP1	2.29	0.65
9:g2:87:LEU:HB3	9:g2:101:PHE:H	1.62	0.65
9:g2:122:SER:OG	9:g2:130:LYS:O	2.14	0.65
17:Y2:109:GLU:CD	17:Y2:113:ARG:NH1	2.55	0.65
24:D2:54:ARG:NE	24:D2:57:ASN:HD22	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P2:45:LEU:HD12	31:P2:49:LEU:CD2	2.27	0.65
25:E3:42:LEU:HD21	25:E3:47:PHE:HB2	1.79	0.65
31:P3:45:LEU:HD12	31:P3:49:LEU:HD21	1.79	0.65
11:G4:139:SER:O	11:G4:142:ARG:CG	2.43	0.65
26:F4:191:LYS:HA	26:F4:194:ASP:HB2	1.78	0.65
27:H4:91:HIS:CD2	27:H4:169:LYS:HB2	2.32	0.65
4:X5:101:LEU:HD13	4:X5:124:LYS:HD3	1.78	0.65
8:f5:105:TYR:HD2	8:f5:106:TYR:CD2	2.12	0.65
11:G5:65:GLN:HE22	21:i5:1746:U:C1'	2.09	0.65
17:Y5:126:GLY:O	17:Y5:130:LYS:NZ	2.27	0.65
21:i5:1588:A:O2'	21:i5:1589:A:O5'	2.14	0.65
21:i5:1621:U:C4'	31:P5:115:TYR:HE1	2.10	0.65
26:F5:191:LYS:HA	26:F5:194:ASP:HB2	1.77	0.65
27:H5:83:LEU:HD11	27:H5:92:VAL:HG11	1.79	0.65
5:a6:97:PRO:O	5:a6:99:PRO:HD3	1.96	0.65
10:C6:275:LYS:O	10:C6:276:THR:HG23	1.96	0.65
20:e6:28:LYS:HB3	21:i6:524:U:H2'	1.79	0.65
21:i6:1757:G:N3	21:i6:1776:G:O6	2.29	0.65
22:A6:211:GLU:HB2	33:R6:81:ARG:HH21	1.59	0.65
36:k2:83:ARG:CZ	36:k2:175:TRP:CH2	2.78	0.65
36:k2:94:HIS:HB2	36:k2:135:MET:CG	2.20	0.65
36:k2:143:LEU:O	36:k2:168:HIS:O	2.14	0.65
36:k5:93:PRO:O	36:k5:132:VAL:HB	1.96	0.65
37:l5:180:GLU:HB2	37:l5:184:GLU:OE1	1.96	0.65
11:G1:189:ARG:NH1	21:i1:330:G:C5	2.62	0.65
18:Z1:82:SER:HB3	21:i1:1598:G:C4'	2.26	0.65
21:i1:336:A:H8	21:i1:336:A:O5'	1.80	0.65
21:i1:380:G:N1	21:i1:383:G:OP2	2.26	0.65
6:c2:14:VAL:HA	6:c2:32:VAL:HG12	1.78	0.65
8:f2:80:ARG:NH2	21:i2:1503:C:H1'	2.12	0.65
10:C2:235:ASN:ND2	21:i2:14:C:OP1	2.28	0.65
18:Z2:51:ASP:OD1	18:Z2:52:LYS:N	2.30	0.65
21:i2:1751:C:N4	21:i2:1781:A:N1	2.43	0.65
22:A2:104:THR:OG1	22:A2:107:THR:OG1	2.13	0.65
26:F2:191:LYS:HA	26:F2:194:ASP:HB2	1.78	0.65
31:P2:98:ASN:O	31:P2:122:THR:OG1	1.99	0.65
22:A3:54:THR:HG22	22:A3:162:PRO:HG2	1.78	0.65
26:F3:188:TYR:HA	26:F3:191:LYS:HB2	1.77	0.65
1:T4:43:LYS:NZ	21:i4:1540:G:OP2	2.20	0.65
8:f4:86:THR:CG2	21:i4:1269:G:P	2.85	0.65
10:C4:270:THR:CG2	22:A4:69:GLU:CG	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A4:2:SER:HB2	22:A4:59:LEU:HD21	1.79	0.65
5:a5:102:ARG:HB2	5:a5:103:PRO:HA	1.78	0.65
21:i5:368:U:H3	36:k4:109:ALA:CA	2.08	0.65
21:i5:1047:C:H42	21:i5:1071:G:H1	1.42	0.65
23:B5:130:THR:OG1	23:B5:178:THR:O	2.14	0.65
30:L5:73:LEU:O	30:L5:128:VAL:N	2.30	0.65
3:V6:19:ALA:O	16:W6:23:ARG:NH2	2.30	0.65
4:X6:55:VAL:HA	20:e6:6:LEU:HD13	1.77	0.65
18:Z6:79:ILE:HG13	18:Z6:80:ARG:N	2.11	0.65
21:i6:1280:G:H22	21:i6:1317:C:H41	1.45	0.65
21:i6:1621:U:C4'	31:P6:115:TYR:CE1	2.79	0.65
36:k1:122:LYS:CE	36:k1:124:TYR:OH	2.41	0.65
37:l2:178:ILE:HD12	37:l2:190:ILE:HG21	0.65	0.65
37:l5:178:ILE:O	37:l5:190:ILE:HD12	1.97	0.65
37:l6:119:LYS:O	37:l6:120:ILE:CD1	2.42	0.65
4:X1:45:SER:HB3	21:i1:649:U:H1'	1.78	0.65
5:a1:102:ARG:HB2	5:a1:103:PRO:HA	1.78	0.65
21:i1:526:A:C2	21:i1:560:A:C2	2.84	0.65
21:i1:628:A:C4	24:D1:179:GLN:NE2	2.64	0.65
21:i1:1201:U:O2'	21:i1:1358:U:H4'	1.97	0.65
21:i1:1748:G:H1	21:i1:1786:U:H3	1.45	0.65
30:L1:121:GLN:CG	30:L1:153:LYS:CD	2.74	0.65
18:Z2:86:ALA:HB1	34:S2:3:LEU:CD1	2.26	0.65
21:i2:190:G:O2'	21:i2:209:A:N6	2.30	0.65
21:i2:969:U:C5	28:I4:161:LEU:CD2	2.80	0.65
26:F2:188:TYR:HA	26:F2:191:LYS:HB2	1.77	0.65
3:V3:19:ALA:O	16:W3:23:ARG:NH2	2.30	0.65
16:W3:22:LYS:HA	19:b3:2:PRO:HB3	1.79	0.65
18:Z3:75:GLU:CG	21:i6:193:C:OP1	2.44	0.65
21:i3:368:U:N3	36:k1:110:ASN:N	2.45	0.65
21:i3:1751:C:N4	21:i3:1781:A:N1	2.42	0.65
32:Q3:93:VAL:HG13	32:Q3:105:LYS:HG3	1.79	0.65
33:R3:61:ILE:O	33:R3:73:LEU:CD2	2.45	0.65
12:J4:11:LYS:NZ	12:J4:13:TYR:O	2.30	0.65
21:i4:798:A:N6	21:i4:801:U:O5'	2.23	0.65
21:i4:1621:U:C4'	31:P4:115:TYR:CE1	2.79	0.65
21:i4:1757:G:N3	21:i4:1776:G:O6	2.29	0.65
22:A4:54:THR:HG22	22:A4:162:PRO:HG2	1.77	0.65
28:I4:76:THR:HG22	28:I4:108:PRO:HG2	1.78	0.65
5:a5:97:PRO:O	5:a5:99:PRO:HD3	1.96	0.65
11:G5:147:LEU:O	11:G5:148:SER:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M5:49:LEU:HG	13:M5:114:TYR:OH	1.96	0.65
21:i5:960:U:O2'	21:i5:962:A:N7	2.25	0.65
6:c6:14:VAL:HA	6:c6:32:VAL:HG12	1.78	0.65
8:f6:80:ARG:HH22	21:i6:1503:C:H1'	1.57	0.65
8:f6:105:TYR:CZ	8:f6:131:PHE:CB	2.75	0.65
20:e6:46:VAL:HG22	20:e6:49:PHE:HD1	1.59	0.65
21:i6:190:G:O2'	21:i6:209:A:N6	2.30	0.65
21:i6:628:A:C2	24:D6:179:GLN:CG	2.79	0.65
21:i6:1360:U:O2'	21:i6:1379:A:OP2	2.15	0.65
36:k1:83:ARG:HG3	36:k1:175:TRP:CE3	2.32	0.65
36:k3:94:HIS:CB	36:k3:135:MET:CG	2.73	0.65
36:k3:145:VAL:C	36:k3:167:ILE:CG1	2.70	0.65
36:k4:112:MET:CG	36:k4:114:PRO:HD2	2.17	0.65
36:k5:33:PHE:CZ	36:k5:131:ILE:CD1	2.80	0.65
37:l3:178:ILE:HD12	37:l3:190:ILE:HG21	0.65	0.65
37:l4:178:ILE:HD12	37:l4:190:ILE:HG21	0.65	0.65
37:l5:181:LYS:HA	37:l5:182:TRP:O	1.96	0.65
37:l6:180:GLU:CB	37:l6:181:LYS:HB3	2.26	0.65
1:T1:84:ARG:NH2	21:i1:1605:G:OP1	2.29	0.65
8:f1:86:THR:CG2	21:i1:1269:G:P	2.85	0.65
21:i1:368:U:H3	36:k6:109:ALA:HB1	1.61	0.65
21:i1:1842:C:H3'	35:j1:4:LYS:NZ	2.12	0.65
4:X2:34:THR:O	4:X2:36:LEU:N	2.29	0.65
17:Y2:127:ALA:HA	17:Y2:130:LYS:HD3	1.77	0.65
20:e2:43:VAL:HG11	21:i2:551:U:C2'	2.26	0.65
22:A2:54:THR:HG22	22:A2:162:PRO:HG2	1.78	0.65
24:D2:106:ARG:HG3	24:D2:107:TYR:H	1.61	0.65
3:V3:36:VAL:HG12	3:V3:37:ALA:H	1.61	0.65
5:a3:97:PRO:O	5:a3:99:PRO:HD3	1.96	0.65
18:Z3:51:ASP:OD1	18:Z3:52:LYS:N	2.30	0.65
24:D3:107:TYR:HA	24:D3:110:LEU:HB2	1.78	0.65
18:Z4:79:ILE:HG13	18:Z4:80:ARG:N	2.11	0.65
21:i4:969:U:O2'	28:I5:200:ARG:NH2	2.29	0.65
21:i4:1696:C:C5'	21:i4:1703:C:H4'	2.26	0.65
21:i5:1172:U:H4'	35:j5:10:MET:HE2	1.70	0.65
21:i5:1173:A:P	35:j5:14:LYS:HG2	2.37	0.65
21:i5:1751:C:C4	21:i5:1781:A:C2	2.84	0.65
21:i5:1852:C:OP2	35:j5:1:MET:HB2	1.97	0.65
26:F5:120:GLY:HA3	26:F5:146:ARG:HE	1.61	0.65
29:K5:5:LYS:HA	29:K5:8:ARG:HB2	1.78	0.65
8:f6:95:ARG:HE	21:i6:1289:U:H5'	1.54	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g6:122:SER:OG	9:g6:130:LYS:O	2.14	0.65
31:P6:15:PHE:HE2	31:P6:112:ILE:CD1	2.07	0.65
31:P6:119:PHE:HE1	34:S6:119:ALA:HB1	1.46	0.65
36:k2:33:PHE:CE1	36:k2:92:LEU:HD21	2.31	0.65
37:l2:178:ILE:O	37:l2:190:ILE:HD12	1.97	0.65
37:l3:178:ILE:O	37:l3:190:ILE:HD12	1.97	0.65
10:C1:275:LYS:O	10:C1:276:THR:HG23	1.96	0.64
13:M1:71:GLU:HG2	17:Y2:130:LYS:HE3	1.77	0.64
18:Z1:51:ASP:OD1	18:Z1:52:LYS:N	2.30	0.64
21:i1:525:A:O5'	21:i1:525:A:H8	1.80	0.64
21:i1:1621:U:C4'	31:P1:115:TYR:CE1	2.79	0.64
24:D1:106:ARG:HG3	24:D1:107:TYR:H	1.61	0.64
26:F1:120:GLY:HA3	26:F1:146:ARG:HE	1.61	0.64
14:N2:133:ARG:CZ	30:L2:154:GLN:HA	2.28	0.64
9:g3:87:LEU:HB3	9:g3:101:PHE:H	1.62	0.64
10:C3:188:CYS:SG	10:C3:189:GLY:N	2.69	0.64
3:V4:19:ALA:O	16:W4:23:ARG:NH2	2.30	0.64
11:G4:141:ILE:HG12	11:G4:144:LEU:CG	2.27	0.64
18:Z4:66:LYS:CB	18:Z4:111:ARG:HD2	2.26	0.64
21:i4:336:A:H8	21:i4:336:A:O5'	1.80	0.64
21:i4:1311:C:N4	21:i4:1312:G:O6	2.30	0.64
25:E4:71:LYS:HG3	25:E4:91:SER:HB2	1.79	0.64
9:g5:87:LEU:HB3	9:g5:101:PHE:H	1.62	0.64
15:O5:130:GLU:HG2	15:O5:131:ASP:H	1.60	0.64
18:Z5:51:ASP:OD1	18:Z5:52:LYS:N	2.30	0.64
24:D5:22:ASN:O	24:D5:26:THR:OG1	2.15	0.64
31:P5:49:LEU:O	31:P5:50:ARG:NH1	2.31	0.64
21:i6:316:G:N3	21:i6:335:G:C2	2.65	0.64
26:F6:191:LYS:HA	26:F6:194:ASP:HB2	1.78	0.64
36:k4:170:LEU:HD12	36:k4:175:TRP:CH2	2.32	0.64
37:l3:124:LYS:O	37:l3:125:LYS:HB2	1.97	0.64
37:l4:180:GLU:CB	37:l4:181:LYS:HB3	2.26	0.64
11:G1:141:ILE:HG12	11:G1:144:LEU:CG	2.27	0.64
20:e1:45:VAL:HG21	21:i1:535:G:O3'	1.97	0.64
21:i1:190:G:O2'	21:i1:209:A:N6	2.30	0.64
4:X2:101:LEU:HD13	4:X2:124:LYS:HD3	1.78	0.64
5:a2:97:PRO:O	5:a2:99:PRO:HD3	1.96	0.64
10:C2:65:LYS:CE	10:C2:280:VAL:HB	2.28	0.64
10:C2:94:ILE:HD11	10:C2:98:LEU:HD12	1.79	0.64
13:M2:14:VAL:CG1	13:M2:127:TYR:CD1	2.74	0.64
16:W2:37:PHE:CE1	16:W2:103:VAL:HG21	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:12:U:H1'	21:i2:1357:A:C1'	2.28	0.64
24:D2:107:TYR:HA	24:D2:110:LEU:HB2	1.77	0.64
25:E2:42:LEU:HD21	25:E2:47:PHE:HB2	1.79	0.64
27:H2:147:LYS:HB3	27:H2:151:SER:HB3	1.78	0.64
24:D3:64:ARG:NE	29:K3:95:ARG:CZ	2.57	0.64
33:R3:5:ARG:HB2	33:R3:10:LYS:HZ1	1.62	0.64
4:X4:101:LEU:HD13	4:X4:124:LYS:HD3	1.78	0.64
10:C4:94:ILE:HD11	10:C4:98:LEU:HD12	1.78	0.64
21:i4:211:G:C6	21:i4:212:C:C2	2.85	0.64
21:i4:1621:U:C4'	31:P4:115:TYR:HE1	2.10	0.64
9:g5:122:SER:OG	9:g5:130:LYS:O	2.14	0.64
10:C5:94:ILE:HD11	10:C5:98:LEU:HD12	1.79	0.64
16:W5:37:PHE:CE1	16:W5:103:VAL:HG21	2.32	0.64
21:i5:190:G:O2'	21:i5:209:A:N6	2.30	0.64
8:f6:86:THR:CG2	21:i6:1269:G:P	2.84	0.64
17:Y6:113:ARG:HA	17:Y6:116:LYS:HZ1	1.62	0.64
18:Z6:85:ARG:HG3	18:Z6:85:ARG:NH2	2.12	0.64
21:i6:13:C:H5'	21:i6:1356:G:C1'	2.25	0.64
21:i6:1703:C:H2'	21:i6:1704:C:O4'	1.97	0.64
26:F6:137:GLN:CB	26:F6:204:ARG:N	2.60	0.64
36:k3:82:LEU:CD2	36:k3:142:ALA:HB3	2.27	0.64
37:l5:178:ILE:HD12	37:l5:190:ILE:HG21	0.65	0.64
10:C1:94:ILE:HD11	10:C1:98:LEU:HD12	1.79	0.64
11:G2:141:ILE:HG12	11:G2:144:LEU:CG	2.27	0.64
21:i2:1621:U:C4'	31:P2:115:TYR:HE1	2.10	0.64
21:i2:1816:G:H22	35:j2:20:MET:CE	2.09	0.64
25:E2:71:LYS:HG3	25:E2:91:SER:HB2	1.79	0.64
33:R2:5:ARG:HB2	33:R2:10:LYS:HZ1	1.63	0.64
9:g3:166:VAL:HG12	9:g3:176:VAL:HG22	1.79	0.64
21:i3:190:G:O2'	21:i3:209:A:N6	2.30	0.64
21:i3:390:C:O2'	30:L3:8:ARG:NH2	2.31	0.64
21:i3:1311:C:N4	21:i3:1312:G:O6	2.31	0.64
21:i3:1757:G:N3	21:i3:1776:G:O6	2.29	0.64
28:I3:76:THR:HG22	28:I3:108:PRO:HG2	1.77	0.64
28:I3:194:GLU:HB2	30:L3:18:GLN:NE2	2.12	0.64
4:X4:92:ASN:ND2	20:e4:9:ALA:HB3	2.11	0.64
10:C4:94:ILE:HG21	10:C4:159:LYS:HB3	1.79	0.64
13:M4:49:LEU:HG	13:M4:114:TYR:OH	1.96	0.64
25:E4:42:LEU:HD21	25:E4:47:PHE:HB2	1.79	0.64
8:f5:92:LYS:O	8:f5:93:HIS:HB2	1.97	0.64
21:i5:61:A:C4'	21:i5:317:C:C2'	2.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1700:C:N3	21:i5:1834:A:N6	2.46	0.64
22:A5:12:GLU:HG3	22:A5:13:GLU:H	1.63	0.64
22:A5:54:THR:HG22	22:A5:162:PRO:HG2	1.78	0.64
10:C6:68:ARG:NH2	10:C6:276:THR:C	2.47	0.64
11:G6:218:LYS:O	11:G6:221:LYS:NZ	2.27	0.64
21:i6:1103:C:OP1	23:B6:157:GLN:NE2	2.25	0.64
32:Q6:93:VAL:HG13	32:Q6:105:LYS:HG3	1.79	0.64
36:k1:140:GLN:NE2	36:k1:141:HIS:CE1	2.60	0.64
36:k2:149:LYS:CE	36:k2:165:GLU:OE1	2.45	0.64
36:k4:2:PHE:CB	36:k4:168:HIS:NE2	2.54	0.64
36:k4:22:ILE:CG1	36:k4:50:VAL:CG2	2.72	0.64
14:N1:133:ARG:HH21	30:L1:154:GLN:CG	2.06	0.64
21:i1:527:C:O5'	21:i1:527:C:H6	1.79	0.64
21:i1:1621:U:C4'	31:P1:115:TYR:HE1	2.10	0.64
21:i1:1777:G:C4	21:i1:1778:C:N3	2.66	0.64
21:i2:1848:U:H5''	37:l2:146:ARG:HH12	1.61	0.64
8:f4:96:LYS:CD	21:i4:1307:U:C6	2.76	0.64
15:O4:63:LYS:NZ	28:I5:163:GLU:CB	2.60	0.64
16:W4:49:GLU:OE1	27:H4:145:ARG:NH2	2.31	0.64
21:i4:190:G:O2'	21:i4:209:A:N6	2.30	0.64
21:i4:1588:A:O2'	21:i4:1589:A:O5'	2.13	0.64
26:F4:120:GLY:HA3	26:F4:146:ARG:HE	1.62	0.64
27:H4:83:LEU:HD11	27:H4:92:VAL:HG11	1.79	0.64
31:P4:44:ARG:HG3	31:P4:44:ARG:HH11	1.61	0.64
1:T5:84:ARG:NH2	21:i5:1605:G:OP1	2.29	0.64
8:f5:95:ARG:HE	21:i5:1289:U:H5'	1.54	0.64
11:G6:141:ILE:HG12	11:G6:144:LEU:CG	2.27	0.64
15:O6:146:ARG:NH2	21:i6:1858:G:OP2	2.31	0.64
36:k3:82:LEU:CD1	36:k3:169:TYR:CA	2.76	0.64
36:k5:170:LEU:CG	36:k5:171:ASN:H	2.10	0.64
8:f1:144:CYS:SG	38:f1:500:ZN:ZN	1.74	0.64
9:g1:87:LEU:HB3	9:g1:101:PHE:H	1.62	0.64
10:C1:65:LYS:CE	10:C1:280:VAL:HB	2.28	0.64
14:N1:137:PRO:HG3	30:L1:154:GLN:CB	2.28	0.64
18:Z1:66:LYS:CB	18:Z1:111:ARG:HD2	2.26	0.64
21:i1:731:G:H4'	21:i1:732:U:OP1	1.92	0.64
21:i1:1772:C:C2	34:S6:112:GLU:CD	2.76	0.64
31:P1:121:ILE:HG23	31:P1:122:THR:N	2.13	0.64
3:V2:36:VAL:HG12	3:V2:37:ALA:H	1.61	0.64
4:X2:55:VAL:CB	20:e2:2:VAL:CG1	2.44	0.64
9:g2:166:VAL:HG12	9:g2:176:VAL:HG22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C2:94:ILE:HG21	10:C2:159:LYS:HB3	1.78	0.64
21:i2:1777:G:C4	21:i2:1778:C:N3	2.66	0.64
21:i2:1843:G:C5	35:j2:4:LYS:NZ	2.64	0.64
22:A2:33:GLN:HB2	22:A2:154:LEU:HD12	1.80	0.64
27:H2:83:LEU:HD11	27:H2:92:VAL:HG11	1.79	0.64
10:C3:275:LYS:O	10:C3:276:THR:HG23	1.96	0.64
13:M3:49:LEU:HG	13:M3:114:TYR:OH	1.96	0.64
22:A3:12:GLU:HG3	22:A3:13:GLU:H	1.63	0.64
26:F3:18:LYS:HE3	26:F3:46:ALA:H	1.61	0.64
31:P3:41:GLN:HB3	31:P3:84:ILE:CD1	2.26	0.64
35:j3:13:LEU:HD11	35:j3:17:ARG:CZ	2.28	0.64
1:T4:9:VAL:HG21	1:T4:135:ALA:HB1	1.79	0.64
10:C4:65:LYS:CE	10:C4:280:VAL:HB	2.28	0.64
11:G4:49:VAL:HG22	11:G4:115:LYS:HB2	1.80	0.64
14:N4:47:PRO:HD2	14:N4:86:GLU:HG3	1.79	0.64
30:L4:78:THR:HG21	30:L4:89:ARG:HG3	1.80	0.64
31:P4:41:GLN:OE1	31:P4:84:ILE:HD13	1.97	0.64
33:R4:81:ARG:HH11	33:R4:81:ARG:HG2	1.63	0.64
6:c5:14:VAL:HA	6:c5:32:VAL:HG12	1.78	0.64
16:W5:22:LYS:HA	19:b5:2:PRO:HB3	1.79	0.64
21:i5:1311:C:N4	21:i5:1312:G:O6	2.31	0.64
11:G6:49:VAL:HG22	11:G6:115:LYS:HB2	1.80	0.64
16:W6:37:PHE:CE1	16:W6:103:VAL:HG21	2.33	0.64
18:Z6:51:ASP:OD1	18:Z6:52:LYS:N	2.30	0.64
21:i6:1311:C:N4	21:i6:1312:G:O6	2.31	0.64
22:A6:2:SER:HB2	22:A6:59:LEU:HD21	1.78	0.64
36:k1:96:GLN:NE2	36:k1:122:LYS:CG	2.61	0.64
36:k2:110:ASN:OD1	36:k2:166:ASN:N	2.31	0.64
36:k3:169:TYR:CZ	36:k3:172:ASP:HB3	2.32	0.64
36:k5:22:ILE:HG12	36:k5:50:VAL:CG2	2.18	0.64
36:k5:96:GLN:NE2	36:k5:122:LYS:CG	2.60	0.64
3:V1:36:VAL:HG12	3:V1:37:ALA:H	1.61	0.64
8:f1:92:LYS:O	8:f1:93:HIS:HB2	1.97	0.64
21:i1:1069:U:P	36:k1:18:LYS:CE	2.85	0.64
13:M2:49:LEU:HG	13:M2:114:TYR:OH	1.96	0.64
21:i2:390:C:O2'	30:L2:8:ARG:NH2	2.31	0.64
21:i2:1588:A:O2'	21:i2:1589:A:O5'	2.13	0.64
11:G3:141:ILE:HG12	11:G3:144:LEU:CG	2.27	0.64
13:M3:14:VAL:CG1	13:M3:127:TYR:CD1	2.74	0.64
9:g4:87:LEU:HB3	9:g4:101:PHE:H	1.63	0.64
15:O4:66:ARG:CZ	28:I5:125:LYS:HD3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z4:46:ASN:HB3	18:Z4:80:ARG:CA	2.16	0.64
21:i4:814:U:OP1	25:E4:22:LYS:NZ	2.30	0.64
24:D4:54:ARG:NE	24:D4:57:ASN:HD22	1.95	0.64
3:V5:19:ALA:O	16:W5:23:ARG:NH2	2.30	0.64
12:J5:173:VAL:HG21	21:i5:561:A:H62	1.63	0.64
21:i5:814:U:OP1	25:E5:22:LYS:NZ	2.30	0.64
20:e6:35:ARG:HH12	21:i6:526:A:H5'	1.63	0.64
26:F6:106:GLU:HG2	26:F6:107:ASN:H	1.63	0.64
27:H6:83:LEU:HD11	27:H6:92:VAL:HG11	1.79	0.64
31:P6:121:ILE:HG23	31:P6:122:THR:N	2.13	0.64
33:R6:5:ARG:HB2	33:R6:10:LYS:HZ1	1.63	0.64
36:k2:96:GLN:NE2	36:k2:122:LYS:CG	2.60	0.64
37:l1:178:ILE:O	37:l1:190:ILE:HD12	1.97	0.64
37:l6:178:ILE:O	37:l6:190:ILE:HD12	1.97	0.64
1:T1:9:VAL:HG21	1:T1:135:ALA:HB1	1.80	0.64
2:U1:17:ILE:HG22	2:U1:95:SER:N	2.03	0.64
4:X1:101:LEU:HD13	4:X1:124:LYS:HD3	1.78	0.64
8:f1:95:ARG:HE	21:i1:1289:U:H5'	1.54	0.64
16:W1:49:GLU:OE1	27:H1:145:ARG:NH2	2.31	0.64
21:i1:798:A:N6	21:i1:801:U:O5'	2.23	0.64
28:I1:197:PHE:HA	28:I1:200:ARG:HD2	1.80	0.64
10:C2:267:GLN:HA	22:A2:120:ARG:HH12	1.63	0.64
10:C2:275:LYS:O	10:C2:276:THR:HG23	1.96	0.64
11:G2:190:ARG:NH2	21:i2:332:G:C8	2.65	0.64
21:i2:690:G:O6	21:i2:738:C:N4	2.31	0.64
28:I2:76:THR:HG22	28:I2:108:PRO:HG2	1.77	0.64
30:L2:31:GLU:N	23:B5:21:VAL:HG22	2.11	0.64
31:P2:49:LEU:O	31:P2:50:ARG:NH1	2.30	0.64
10:C3:94:ILE:HD11	10:C3:98:LEU:HD12	1.78	0.64
10:C3:267:GLN:HA	22:A3:120:ARG:HH12	1.63	0.64
21:i3:526:A:H8	21:i3:526:A:O5'	1.81	0.64
21:i3:1354:G:N2	21:i3:1357:A:OP2	2.25	0.64
31:P3:121:ILE:HG23	31:P3:122:THR:N	2.13	0.64
21:i4:213:G:C2	21:i4:214:U:C2	2.81	0.64
21:i4:557:U:H6	21:i4:557:U:O5'	1.81	0.64
21:i4:692:G:H5'	21:i4:734:C:N4	1.95	0.64
30:L4:73:LEU:O	30:L4:128:VAL:N	2.30	0.64
31:P4:16:THR:HG22	34:S4:91:LYS:O	1.97	0.64
31:P4:98:ASN:O	31:P4:122:THR:OG1	1.99	0.64
10:C5:117:ARG:NE	21:i5:1204:A:OP1	2.26	0.64
12:J5:40:LYS:HG3	20:e5:34:ARG:HH12	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1777:G:C4	21:i5:1778:C:N3	2.66	0.64
24:D5:54:ARG:NE	24:D5:57:ASN:HD22	1.95	0.64
31:P5:121:ILE:HG23	31:P5:122:THR:N	2.13	0.64
4:X6:45:SER:HB3	21:i6:649:U:H1'	1.78	0.64
13:M6:49:LEU:HG	13:M6:114:TYR:OH	1.96	0.64
17:Y6:88:LYS:HE2	17:Y6:99:LYS:HE2	1.77	0.64
35:j6:13:LEU:HD11	35:j6:17:ARG:CZ	2.28	0.64
36:k3:170:LEU:CG	36:k3:171:ASN:H	2.10	0.64
37:l4:178:ILE:O	37:l4:190:ILE:HD12	1.97	0.64
15:O1:146:ARG:NH2	21:i1:1858:G:OP2	2.31	0.64
21:i1:556:U:C5	21:i1:588:G:C4	2.85	0.64
22:A1:2:SER:HB2	22:A1:59:LEU:HD21	1.79	0.64
33:R1:61:ILE:O	33:R1:73:LEU:HD13	1.97	0.64
35:j1:13:LEU:HD11	35:j1:17:ARG:CZ	2.28	0.64
1:T2:9:VAL:HG21	1:T2:135:ALA:HB1	1.80	0.64
3:V2:74:LYS:O	3:V2:81:LYS:NZ	2.31	0.64
11:G2:49:VAL:HG22	11:G2:115:LYS:HB2	1.80	0.64
15:O2:146:ARG:NH2	21:i2:1858:G:OP2	2.31	0.64
20:e2:25:LYS:CE	21:i2:554:A:H5''	2.28	0.64
21:i2:878:G:O6	21:i2:907:G:N1	2.20	0.64
21:i2:970:G:H22	28:I4:200:ARG:HA	1.61	0.64
21:i2:1488:C:O2'	21:i2:1490:G:OP2	2.16	0.64
33:R2:54:VAL:O	33:R2:58:MET:CB	2.46	0.64
2:U3:25:THR:OG1	2:U3:111:GLU:OE1	2.16	0.64
14:N3:142:GLU:OE1	14:N3:145:THR:HG21	1.98	0.64
21:i3:1488:C:O2'	21:i3:1490:G:OP2	2.16	0.64
31:P3:49:LEU:O	31:P3:50:ARG:NH1	2.30	0.64
4:X4:91:LEU:HB3	20:e4:9:ALA:HB1	1.79	0.64
21:i4:1689:C:H2'	21:i4:1690:U:H5'	1.79	0.64
22:A4:209:GLU:O	22:A4:213:GLU:HB2	1.98	0.64
23:B4:130:THR:OG1	23:B4:178:THR:O	2.14	0.64
18:Z5:82:SER:HB3	21:i5:1598:G:C4'	2.26	0.64
21:i5:183:G:OP1	21:i5:184:G:H5'	1.98	0.64
21:i5:1851:A:H5''	35:j5:1:MET:HE3	1.79	0.64
28:I5:41:ARG:HH11	28:I5:62:VAL:HG21	1.63	0.64
1:T6:43:LYS:NZ	21:i6:1540:G:OP2	2.20	0.64
14:N6:47:PRO:HD2	14:N6:86:GLU:HG3	1.79	0.64
16:W6:49:GLU:OE1	27:H6:145:ARG:NH2	2.31	0.64
21:i6:130:G:H5'	21:i6:214:U:O4	1.96	0.64
22:A6:33:GLN:HB2	22:A6:154:LEU:HD12	1.80	0.64
22:A6:209:GLU:O	22:A6:213:GLU:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:170:LEU:O	36:k1:171:ASN:C	2.40	0.64
36:k2:10:ASN:C	36:k2:56:HIS:HD1	2.04	0.64
36:k2:112:MET:CG	36:k2:114:PRO:HD2	2.17	0.64
37:l2:124:LYS:O	37:l2:125:LYS:HB2	1.97	0.64
37:l2:180:GLU:HA	37:l2:181:LYS:CB	2.25	0.64
9:g1:104:HIS:NE2	9:g1:126:ASP:OD2	2.31	0.64
21:i1:390:C:O2'	30:L1:8:ARG:NH2	2.31	0.64
21:i1:814:U:OP1	25:E1:22:LYS:NZ	2.30	0.64
21:i1:1354:G:N2	21:i1:1357:A:OP2	2.25	0.64
3:V2:19:ALA:O	16:W2:23:ARG:NH2	2.30	0.64
8:f2:92:LYS:O	8:f2:93:HIS:HB2	1.97	0.64
8:f2:105:TYR:HD2	8:f2:106:TYR:CD2	2.12	0.64
11:G2:187:HIS:HE1	21:i2:317:C:N4	1.83	0.64
21:i2:336:A:O5'	21:i2:336:A:H8	1.81	0.64
21:i2:1175:G:OP2	35:j2:21:ARG:CZ	2.45	0.64
21:i2:1842:C:OP1	35:j2:3:ALA:CB	2.43	0.64
22:A2:12:GLU:HG3	22:A2:13:GLU:H	1.63	0.64
26:F2:127:ARG:O	26:F2:137:GLN:HB2	1.98	0.64
31:P2:16:THR:HG22	34:S2:91:LYS:O	1.97	0.64
33:R2:54:VAL:O	33:R2:58:MET:HB3	1.98	0.64
1:T3:9:VAL:HG21	1:T3:135:ALA:HB1	1.80	0.64
11:G3:141:ILE:C	11:G3:144:LEU:HG	2.23	0.64
15:O3:66:ARG:HH12	28:I6:125:LYS:HZ2	1.46	0.64
17:Y3:109:GLU:OE2	17:Y3:113:ARG:NE	2.30	0.64
21:i3:867:G:H5''	30:L3:149:ALA:HB1	1.80	0.64
21:i3:1621:U:C4'	31:P3:115:TYR:HE1	2.10	0.64
21:i3:1777:G:C4	21:i3:1778:C:N3	2.66	0.64
21:i3:1849:G:N1	37:l3:149:ALA:O	2.30	0.64
6:c4:12:ALA:HA	6:c4:34:PHE:HA	1.80	0.64
15:O4:146:ARG:NH2	21:i4:1858:G:OP2	2.31	0.64
16:W4:115:GLU:CG	16:W4:119:LYS:HE3	2.27	0.64
21:i4:689:U:C6	21:i4:689:U:H5''	2.33	0.64
25:E4:189:LEU:H	25:E4:245:ARG:HH22	1.46	0.64
26:F4:137:GLN:O	26:F4:138:ALA:HB2	1.96	0.64
28:I4:41:ARG:HH11	28:I4:62:VAL:HG21	1.63	0.64
4:X5:61:GLN:CD	21:i5:1824:A:C8	2.75	0.64
16:W5:49:GLU:OE1	27:H5:145:ARG:NH2	2.31	0.64
17:Y5:109:GLU:OE2	17:Y5:113:ARG:NE	2.30	0.64
21:i5:390:C:O2'	30:L5:8:ARG:NH2	2.31	0.64
22:A5:2:SER:HB2	22:A5:59:LEU:HD21	1.79	0.64
25:E5:42:LEU:HD21	25:E5:47:PHE:HB2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F5:127:ARG:O	26:F5:137:GLN:HB2	1.98	0.64
30:L5:78:THR:HG21	30:L5:89:ARG:HG3	1.80	0.64
35:j5:13:LEU:HD11	35:j5:17:ARG:CZ	2.28	0.64
21:i6:1777:G:C4	21:i6:1778:C:N3	2.66	0.64
24:D6:22:ASN:O	24:D6:26:THR:OG1	2.15	0.64
32:Q6:130:LYS:HA	32:Q6:137:ALA:HA	1.80	0.64
36:k2:79:TYR:CE1	36:k2:131:ILE:CD1	2.80	0.64
36:k4:170:LEU:O	36:k4:171:ASN:C	2.40	0.64
36:k6:82:LEU:HG	36:k6:145:VAL:HG23	1.79	0.64
36:k6:170:LEU:HD11	36:k6:175:TRP:CZ2	2.33	0.64
37:l4:124:LYS:O	37:l4:125:LYS:HB2	1.97	0.64
2:U1:17:ILE:CB	2:U1:94:PRO:HA	2.28	0.64
3:V1:74:LYS:O	3:V1:81:LYS:NZ	2.31	0.64
10:C1:68:ARG:NH2	10:C1:276:THR:C	2.47	0.64
10:C1:267:GLN:HA	22:A1:120:ARG:HH12	1.63	0.64
10:C1:273:LEU:HB3	10:C1:280:VAL:HG13	1.64	0.64
13:M1:111:VAL:CG1	13:M1:114:TYR:CD1	2.81	0.64
14:N1:47:PRO:HD2	14:N1:86:GLU:HG3	1.79	0.64
16:W1:9:ASP:OD1	16:W1:10:ALA:N	2.31	0.64
20:e1:45:VAL:CB	21:i1:535:G:C3'	2.76	0.64
22:A1:12:GLU:HG3	22:A1:13:GLU:H	1.63	0.64
25:E1:42:LEU:HD21	25:E1:47:PHE:HB2	1.78	0.64
27:H1:147:LYS:HB3	27:H1:151:SER:HB3	1.79	0.64
28:I1:196:GLU:O	28:I1:200:ARG:CG	2.27	0.64
28:I1:206:LYS:O	36:k6:12:SER:CA	2.44	0.64
31:P1:96:VAL:CG2	31:P1:116:LEU:HD13	1.87	0.64
5:a2:100:ARG:HH11	5:a2:100:ARG:HG3	1.63	0.64
12:J2:11:LYS:NZ	12:J2:13:TYR:O	2.30	0.64
14:N2:142:GLU:OE1	14:N2:145:THR:HG21	1.98	0.64
22:A2:77:ILE:HD11	22:A2:103:PHE:CD1	2.33	0.64
22:A2:209:GLU:O	22:A2:213:GLU:HB2	1.98	0.64
26:F2:106:GLU:HG2	26:F2:107:ASN:H	1.63	0.64
35:j2:13:LEU:HD11	35:j2:17:ARG:CZ	2.28	0.64
11:G3:49:VAL:HG22	11:G3:115:LYS:HB2	1.80	0.64
15:O3:146:ARG:NH2	21:i3:1858:G:OP2	2.31	0.64
21:i3:525:A:H8	21:i3:525:A:O5'	1.80	0.64
21:i3:1521:C:N4	34:S3:137:LYS:CE	2.61	0.64
22:A3:214:GLU:CG	33:R3:84:TYR:CD1	2.81	0.64
6:c4:31:ARG:HA	6:c4:43:ILE:HA	1.78	0.64
16:W4:9:ASP:OD1	16:W4:10:ALA:N	2.31	0.64
27:H4:169:LYS:O	27:H4:169:LYS:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:25:THR:OG1	2:U5:111:GLU:OE1	2.16	0.64
5:a5:100:ARG:HH11	5:a5:100:ARG:HG3	1.63	0.64
8:f5:105:TYR:OH	8:f5:131:PHE:CG	2.48	0.64
10:C5:65:LYS:CE	10:C5:280:VAL:HB	2.28	0.64
14:N5:129:TYR:CB	14:N5:134:VAL:CG2	2.22	0.64
21:i6:336:A:H8	21:i6:336:A:O5'	1.81	0.64
22:A6:12:GLU:HG3	22:A6:13:GLU:H	1.63	0.64
36:k1:10:ASN:CG	36:k1:56:HIS:ND1	2.55	0.64
36:k1:86:HIS:CD2	36:k1:141:HIS:CA	2.80	0.64
36:k3:170:LEU:HD23	36:k3:171:ASN:H	1.63	0.64
36:k6:83:ARG:HH22	36:k6:175:TRP:NE1	1.96	0.64
37:l1:180:GLU:HA	37:l1:181:LYS:CB	2.26	0.64
37:l2:178:ILE:CD1	37:l2:190:ILE:HG22	2.17	0.64
1:T1:82:ARG:NH1	21:i1:1589:A:O3'	2.28	0.63
21:i1:316:G:C6	21:i1:335:G:N1	2.65	0.63
21:i1:1069:U:H5'	36:k1:16:GLN:HB3	1.81	0.63
21:i1:1210:G:H22	21:i1:1690:U:H1'	1.61	0.63
21:i1:1267:C:N4	21:i1:1515:G:O6	2.32	0.63
21:i1:1410:C:N4	21:i1:1411:G:O6	2.32	0.63
21:i1:1488:C:O2'	21:i1:1490:G:OP2	2.16	0.63
21:i1:1521:C:N4	34:S1:137:LYS:CE	2.62	0.63
24:D1:54:ARG:NE	24:D1:57:ASN:HD22	1.95	0.63
28:I1:206:LYS:O	36:k6:12:SER:CB	2.46	0.63
8:f2:96:LYS:O	21:i2:1288:U:C5'	2.40	0.63
12:J2:7:TRP:HE1	21:i2:39:A:H5'	1.63	0.63
21:i2:1311:C:N4	21:i2:1312:G:O6	2.31	0.63
21:i2:1703:C:H2'	21:i2:1704:C:O4'	1.98	0.63
23:B2:22:VAL:HG21	30:L4:31:GLU:OE2	1.91	0.63
24:D2:22:ASN:O	24:D2:26:THR:OG1	2.15	0.63
5:a3:102:ARG:HB2	5:a3:103:PRO:HA	1.78	0.63
16:W3:37:PHE:CE1	16:W3:103:VAL:HG21	2.33	0.63
18:Z3:41:ARG:HB3	21:i6:209:A:H2	1.64	0.63
22:A3:209:GLU:O	22:A3:213:GLU:HB2	1.99	0.63
33:R3:81:ARG:HH11	33:R3:81:ARG:HG2	1.63	0.63
8:f4:92:LYS:O	8:f4:93:HIS:HB2	1.97	0.63
16:W4:37:PHE:CE1	16:W4:103:VAL:HG21	2.33	0.63
21:i4:390:C:O2'	30:L4:8:ARG:NH2	2.31	0.63
21:i4:1267:C:N4	21:i4:1515:G:O6	2.31	0.63
21:i4:1522:A:H61	31:P4:131:PRO:HB3	1.63	0.63
4:X5:45:SER:HB3	21:i5:649:U:H1'	1.78	0.63
11:G5:141:ILE:HG12	11:G5:144:LEU:CG	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J5:7:TRP:HE1	21:i5:39:A:H5'	1.63	0.63
21:i5:527:C:H6	21:i5:527:C:O5'	1.81	0.63
28:I5:197:PHE:HA	28:I5:200:ARG:HD2	1.80	0.63
32:Q5:4:LYS:HZ2	32:Q5:99:TYR:HD1	1.46	0.63
2:U6:17:ILE:HG22	2:U6:95:SER:N	2.03	0.63
11:G6:141:ILE:C	11:G6:144:LEU:HG	2.23	0.63
13:M6:111:VAL:CG1	13:M6:114:TYR:CD1	2.81	0.63
16:W6:9:ASP:OD1	16:W6:10:ALA:N	2.31	0.63
21:i6:561:A:C2	21:i6:562:U:H1'	2.33	0.63
22:A6:89:LYS:HE2	33:R6:82:ASP:OD1	1.94	0.63
26:F6:136:ARG:O	26:F6:203:ASN:HB2	1.98	0.63
31:P6:34:MET:O	31:P6:42:ARG:CZ	2.47	0.63
18:Z1:85:ARG:HG3	18:Z1:85:ARG:NH2	2.13	0.63
21:i1:558:G:H8	21:i1:558:G:O5'	1.80	0.63
21:i1:1059:G:O2'	37:l1:157:SER:HB3	1.97	0.63
21:i1:1311:C:N4	21:i1:1312:G:O6	2.31	0.63
25:E1:71:LYS:HG3	25:E1:91:SER:HB2	1.80	0.63
28:I1:123:ARG:CD	15:O6:64:ALA:C	2.72	0.63
28:I1:200:ARG:CG	21:i6:970:G:N2	2.60	0.63
33:R1:57:LEU:CD1	33:R1:66:VAL:HG11	2.29	0.63
11:G2:147:LEU:O	11:G2:148:SER:HB3	1.97	0.63
17:Y2:126:GLY:O	17:Y2:130:LYS:NZ	2.27	0.63
21:i2:1280:G:H22	21:i2:1317:C:H41	1.45	0.63
22:A2:2:SER:HB2	22:A2:59:LEU:HD21	1.79	0.63
22:A2:214:GLU:HG3	33:R2:84:TYR:CD1	2.34	0.63
9:g3:122:SER:OG	9:g3:130:LYS:O	2.14	0.63
11:G3:147:LEU:O	11:G3:148:SER:HB3	1.97	0.63
17:Y3:126:GLY:O	17:Y3:130:LYS:NZ	2.27	0.63
22:A3:214:GLU:HG3	33:R3:84:TYR:CD1	2.33	0.63
24:D3:22:ASN:O	24:D3:26:THR:OG1	2.15	0.63
27:H3:147:LYS:HB3	27:H3:151:SER:HB3	1.79	0.63
32:Q3:4:LYS:HZ3	32:Q3:99:TYR:HA	1.60	0.63
3:V4:74:LYS:O	3:V4:81:LYS:NZ	2.31	0.63
5:a4:100:ARG:HH11	5:a4:100:ARG:HG3	1.62	0.63
9:g4:104:HIS:NE2	9:g4:126:ASP:OD2	2.31	0.63
10:C4:267:GLN:HA	22:A4:120:ARG:HH12	1.63	0.63
12:J4:7:TRP:HE1	21:i4:39:A:H5'	1.63	0.63
21:i4:1314:U:H2'	21:i4:1315:U:H4'	1.80	0.63
21:i4:1594:A:OP1	32:Q4:45:ARG:NH2	2.31	0.63
21:i4:1777:G:C4	21:i4:1778:C:N3	2.66	0.63
21:i4:1842:C:C3'	35:j4:4:LYS:NZ	2.57	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:c5:12:ALA:HA	6:c5:34:PHE:HA	1.80	0.63
21:i5:1757:G:N3	21:i5:1776:G:O6	2.29	0.63
14:N6:142:GLU:OE1	14:N6:145:THR:HG21	1.98	0.63
21:i6:960:U:O2'	21:i6:962:A:N7	2.25	0.63
21:i6:1594:A:OP1	32:Q6:45:ARG:NH2	2.32	0.63
36:k3:96:GLN:NE2	36:k3:122:LYS:CG	2.61	0.63
8:f1:110:GLU:CD	21:i2:52:G:H5'	2.10	0.63
12:J1:174:LYS:HB2	21:i1:560:A:H5'	1.80	0.63
25:E1:75:LYS:O	25:E1:77:ARG:N	2.26	0.63
16:W2:49:GLU:OE1	27:H2:145:ARG:NH2	2.31	0.63
22:A2:214:GLU:CG	33:R2:84:TYR:CD1	2.81	0.63
5:a3:102:ARG:H	5:a3:103:PRO:HA	1.64	0.63
6:c3:12:ALA:HA	6:c3:34:PHE:HA	1.80	0.63
21:i3:733:C:N4	27:H3:149:ASP:OD1	2.27	0.63
21:i3:1314:U:H2'	21:i3:1315:U:H4'	1.81	0.63
21:i3:1594:A:OP1	32:Q3:45:ARG:NH2	2.32	0.63
25:E3:71:LYS:HG3	25:E3:91:SER:HB2	1.79	0.63
26:F3:182:LYS:NZ	21:i6:200:G:C4'	2.60	0.63
27:H3:83:LEU:HD11	27:H3:92:VAL:HG11	1.79	0.63
2:U4:25:THR:OG1	2:U4:111:GLU:OE1	2.16	0.63
13:M4:111:VAL:CG1	13:M4:114:TYR:CD1	2.81	0.63
32:Q4:93:VAL:HG13	32:Q4:105:LYS:HG3	1.79	0.63
11:G5:141:ILE:C	11:G5:144:LEU:HG	2.23	0.63
13:M5:111:VAL:CG1	13:M5:114:TYR:CD1	2.81	0.63
14:N5:84:LEU:HA	14:N5:135:LEU:CD2	2.28	0.63
18:Z5:66:LYS:HB3	18:Z5:111:ARG:HD2	1.80	0.63
21:i5:316:G:H8	21:i5:316:G:O5'	1.80	0.63
3:V6:74:LYS:O	3:V6:81:LYS:NZ	2.31	0.63
5:a6:100:ARG:HH11	5:a6:100:ARG:HG3	1.63	0.63
21:i6:187:G:C6	21:i6:188:C:N4	2.66	0.63
21:i6:1143:A:O3'	21:i6:1355:C:N3	2.31	0.63
21:i6:1236:G:H4'	31:P6:132:GLY:O	1.98	0.63
21:i6:1522:A:H61	31:P6:131:PRO:HB3	1.63	0.63
27:H6:147:LYS:HB3	27:H6:151:SER:HB3	1.78	0.63
27:H6:163:GLN:HE21	27:H6:189:PHE:HE2	1.46	0.63
30:L6:121:GLN:HB2	30:L6:153:LYS:CD	2.29	0.63
31:P6:16:THR:HG22	34:S6:91:LYS:O	1.97	0.63
36:k6:96:GLN:NE2	36:k6:122:LYS:CG	2.61	0.63
9:g1:106:LYS:HB2	9:g1:126:ASP:HB3	1.81	0.63
26:F1:127:ARG:O	26:F1:137:GLN:HB2	1.98	0.63
26:F1:137:GLN:O	26:F1:138:ALA:HB2	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:H1:83:LEU:HD11	27:H1:92:VAL:HG11	1.79	0.63
30:L1:126:VAL:CG2	30:L1:145:VAL:HG22	2.28	0.63
9:g2:104:HIS:NE2	9:g2:126:ASP:OD2	2.31	0.63
21:i2:1772:C:C4'	34:S5:112:GLU:CG	2.76	0.63
21:i2:1852:C:C5	35:j2:5:TRP:CG	2.86	0.63
30:L2:78:THR:HG21	30:L2:89:ARG:HG3	1.80	0.63
11:G3:189:ARG:NH1	21:i3:330:G:C5	2.66	0.63
11:G3:221:LYS:O	11:G3:225:GLN:N	2.31	0.63
12:J3:7:TRP:HE1	21:i3:39:A:H5'	1.63	0.63
21:i3:690:G:H5''	21:i3:690:G:N3	2.13	0.63
21:i3:1693:G:O2'	21:i3:1834:A:H4'	1.99	0.63
11:G4:147:LEU:O	11:G4:148:SER:HB3	1.97	0.63
14:N4:142:GLU:OE1	14:N4:145:THR:HG21	1.98	0.63
21:i4:1521:C:N4	34:S4:137:LYS:CE	2.61	0.63
5:a5:102:ARG:H	5:a5:103:PRO:HA	1.64	0.63
11:G5:49:VAL:HG22	11:G5:115:LYS:HB2	1.80	0.63
15:O5:146:ARG:NH2	21:i5:1858:G:OP2	2.31	0.63
21:i5:1069:U:C5'	36:k5:16:GLN:O	2.47	0.63
21:i5:1410:C:N4	21:i5:1411:G:O6	2.32	0.63
21:i5:1694:U:O2'	21:i5:1833:C:O2'	2.16	0.63
22:A5:214:GLU:CG	33:R5:84:TYR:CD1	2.81	0.63
26:F5:100:ILE:HG12	26:F5:178:ILE:HD11	1.81	0.63
27:H5:147:LYS:HB3	27:H5:151:SER:HB3	1.79	0.63
32:Q5:130:LYS:HA	32:Q5:137:ALA:HA	1.80	0.63
33:R5:81:ARG:HH11	33:R5:81:ARG:HG2	1.63	0.63
2:U6:17:ILE:CB	2:U6:94:PRO:HA	2.28	0.63
4:X6:67:ARG:NH1	4:X6:114:ASP:OD2	2.31	0.63
6:c6:12:ALA:HA	6:c6:34:PHE:HA	1.80	0.63
9:g6:104:HIS:NE2	9:g6:126:ASP:OD2	2.31	0.63
21:i6:390:C:O2'	30:L6:8:ARG:NH2	2.30	0.63
21:i6:1488:C:O2'	21:i6:1490:G:OP2	2.16	0.63
21:i6:1822:A:N1	21:i6:1823:A:N6	2.46	0.63
26:F6:136:ARG:C	26:F6:203:ASN:HD22	2.05	0.63
31:P6:49:LEU:O	31:P6:50:ARG:NH1	2.30	0.63
11:G1:49:VAL:HG22	11:G1:115:LYS:HB2	1.80	0.63
21:i1:1522:A:H61	31:P1:131:PRO:HB3	1.63	0.63
21:i1:1594:A:OP1	32:Q1:45:ARG:NH2	2.32	0.63
31:P1:16:THR:HG22	34:S1:91:LYS:O	1.97	0.63
32:Q1:130:LYS:HA	32:Q1:137:ALA:HA	1.81	0.63
34:S1:108:ARG:NE	21:i3:1772:C:O2'	2.29	0.63
4:X2:54:LYS:HE2	20:e2:6:LEU:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N2:47:PRO:HD2	14:N2:86:GLU:HG3	1.79	0.63
21:i2:1594:A:OP1	32:Q2:45:ARG:NH2	2.32	0.63
32:Q2:93:VAL:HG13	32:Q2:105:LYS:HG3	1.79	0.63
32:Q2:130:LYS:HA	32:Q2:137:ALA:HA	1.81	0.63
1:T3:84:ARG:NH2	21:i3:1605:G:OP1	2.30	0.63
21:i3:1785:C:O2'	21:i3:1786:U:O5'	2.15	0.63
27:H3:53:VAL:HG13	27:H3:175:GLY:HA3	1.81	0.63
4:X4:92:ASN:HD21	20:e4:9:ALA:HB3	1.62	0.63
35:j4:13:LEU:HD11	35:j4:17:ARG:CZ	2.28	0.63
1:T5:9:VAL:HG21	1:T5:135:ALA:HB1	1.79	0.63
11:G5:65:GLN:HE22	21:i5:1746:U:C2'	2.11	0.63
18:Z5:70:PRO:HG3	18:Z5:88:LEU:CD2	2.29	0.63
21:i5:1521:C:N4	34:S5:137:LYS:CE	2.61	0.63
9:g6:106:LYS:HB2	9:g6:126:ASP:HB3	1.81	0.63
9:g6:166:VAL:HG12	9:g6:176:VAL:HG22	1.80	0.63
18:Z6:66:LYS:HB3	18:Z6:111:ARG:HD2	1.80	0.63
21:i6:1521:C:N4	34:S6:137:LYS:CE	2.62	0.63
25:E6:189:LEU:H	25:E6:245:ARG:HH22	1.46	0.63
36:k1:95:GLN:HG3	36:k1:164:ILE:HD12	1.75	0.63
36:k1:180:TYR:C	36:k1:181:LYS:CG	2.66	0.63
37:l5:124:LYS:O	37:l5:125:LYS:HB2	1.97	0.63
11:G1:147:LEU:O	11:G1:148:SER:HB3	1.97	0.63
21:i1:1314:U:H2'	21:i1:1315:U:H4'	1.81	0.63
21:i1:1841:C:H3'	35:j1:2:ARG:HH12	1.53	0.63
26:F1:33:ILE:HG13	26:F1:34:SER:H	1.63	0.63
32:Q1:93:VAL:HG13	32:Q1:105:LYS:HG3	1.79	0.63
11:G2:221:LYS:O	11:G2:225:GLN:N	2.32	0.63
14:N2:133:ARG:HD2	30:L2:152:LYS:CG	2.25	0.63
17:Y2:9:THR:O	21:i2:835:C:N4	2.32	0.63
21:i2:187:G:C5	21:i2:213:G:N2	2.67	0.63
2:U3:17:ILE:CB	2:U3:94:PRO:HA	2.28	0.63
5:a3:100:ARG:HH11	5:a3:100:ARG:HG3	1.63	0.63
14:N3:47:PRO:HD2	14:N3:86:GLU:HG3	1.79	0.63
15:O3:63:LYS:HZ2	28:I6:163:GLU:CB	1.76	0.63
21:i3:1267:C:N4	21:i3:1515:G:O6	2.31	0.63
21:i3:1822:A:N1	21:i3:1823:A:N6	2.47	0.63
21:i3:1842:C:OP2	35:j3:2:ARG:CD	2.47	0.63
30:L3:78:THR:HG21	30:L3:89:ARG:HG3	1.80	0.63
32:Q3:130:LYS:HA	32:Q3:137:ALA:HA	1.80	0.63
5:a4:6:ARG:NE	21:i4:1134:G:OP1	2.32	0.63
8:f4:95:ARG:CB	21:i4:1289:U:OP1	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W4:22:LYS:HA	19:b4:2:PRO:HB3	1.79	0.63
21:i4:739:C:N4	21:i4:746:C:H41	1.90	0.63
21:i4:1464:C:OP2	33:R4:60:ARG:NH1	2.31	0.63
21:i4:1703:C:H2'	21:i4:1704:C:O4'	1.98	0.63
26:F4:106:GLU:HG2	26:F4:107:ASN:H	1.63	0.63
27:H4:147:LYS:HB3	27:H4:151:SER:HB3	1.78	0.63
31:P4:121:ILE:HG23	31:P4:122:THR:N	2.13	0.63
9:g5:106:LYS:HB2	9:g5:126:ASP:HB3	1.81	0.63
10:C5:267:GLN:HA	22:A5:120:ARG:HH12	1.63	0.63
21:i5:690:G:O6	21:i5:739:C:O2	2.17	0.63
21:i5:739:C:H2'	21:i5:746:C:H41	1.62	0.63
21:i5:1822:A:N1	21:i5:1823:A:N6	2.47	0.63
21:i5:1853:C:H5	35:j5:5:TRP:HZ2	1.41	0.63
27:H5:53:VAL:HG13	27:H5:175:GLY:HA3	1.81	0.63
8:f6:95:ARG:CB	21:i6:1289:U:OP1	2.47	0.63
14:N6:148:ALA:HB3	14:N6:149:LEU:CA	2.18	0.63
21:i6:1852:C:OP2	35:j6:1:MET:CB	2.47	0.63
26:F6:33:ILE:HG13	26:F6:34:SER:H	1.63	0.63
27:H6:53:VAL:HG13	27:H6:175:GLY:HA3	1.81	0.63
33:R6:81:ARG:HG2	33:R6:81:ARG:HH11	1.63	0.63
36:k2:122:LYS:CE	36:k2:124:TYR:OH	2.41	0.63
36:k4:170:LEU:HD21	36:k4:171:ASN:CG	2.22	0.63
5:a1:102:ARG:H	5:a1:103:PRO:HA	1.63	0.63
9:g1:166:VAL:HG12	9:g1:176:VAL:HG22	1.80	0.63
14:N1:133:ARG:HD2	30:L1:152:LYS:CA	2.29	0.63
20:e1:28:LYS:HB2	21:i1:525:A:OP1	1.98	0.63
21:i1:13:C:C5'	21:i1:1356:G:H1'	2.28	0.63
21:i1:695:C:OP1	21:i1:695:C:H4'	1.99	0.63
31:P1:41:GLN:OE1	31:P1:84:ILE:HG12	1.99	0.63
21:i2:1816:G:N2	35:j2:20:MET:HE1	2.12	0.63
23:B2:22:VAL:N	30:L4:30:LYS:HE3	2.14	0.63
26:F2:18:LYS:HE3	26:F2:46:ALA:H	1.61	0.63
3:V3:74:LYS:O	3:V3:81:LYS:NZ	2.31	0.63
16:W3:9:ASP:OD1	16:W3:10:ALA:N	2.31	0.63
21:i3:1069:U:OP2	36:k3:18:LYS:NZ	2.29	0.63
28:I3:41:ARG:HH11	28:I3:62:VAL:HG21	1.63	0.63
2:U4:17:ILE:CB	2:U4:94:PRO:HA	2.28	0.63
20:e4:28:LYS:HB3	21:i4:524:U:H2'	1.81	0.63
21:i4:213:G:N2	21:i4:214:U:C1'	2.62	0.63
21:i4:1488:C:O2'	21:i4:1490:G:OP2	2.16	0.63
21:i4:1785:C:O2'	21:i4:1786:U:O5'	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A4:214:GLU:CG	33:R4:84:TYR:CD1	2.81	0.63
26:F4:127:ARG:O	26:F4:137:GLN:HB2	1.98	0.63
31:P4:44:ARG:HG3	31:P4:44:ARG:NH1	2.14	0.63
21:i5:695:C:H4'	21:i5:695:C:OP1	1.99	0.63
21:i5:1522:A:H61	31:P5:131:PRO:HB3	1.63	0.63
8:f6:96:LYS:NZ	21:i6:1306:U:O5'	2.28	0.63
20:e6:25:LYS:HE2	21:i6:554:A:OP1	1.99	0.63
21:i6:688:U:H1'	21:i6:689:U:OP2	1.99	0.63
21:i6:1376:A:P	22:A6:102:ARG:HD2	2.39	0.63
28:I6:41:ARG:HH11	28:I6:62:VAL:HG21	1.63	0.63
37:I6:180:GLU:HA	37:I6:181:LYS:CB	2.26	0.63
2:U1:66:ARG:HE	2:U1:75:LYS:HG2	1.64	0.63
2:U1:86:LYS:NZ	21:i1:1580:A:OP1	2.32	0.63
5:a1:100:ARG:HH11	5:a1:100:ARG:HG3	1.63	0.63
17:Y1:109:GLU:OE2	17:Y1:113:ARG:NE	2.30	0.63
18:Z1:66:LYS:HB3	18:Z1:111:ARG:HD2	1.80	0.63
22:A1:209:GLU:O	22:A1:213:GLU:HB2	1.98	0.63
27:H1:163:GLN:HE21	27:H1:189:PHE:HE2	1.46	0.63
31:P1:44:ARG:HG3	31:P1:44:ARG:NH1	2.12	0.63
15:O2:13:GLN:HE21	15:O2:21:VAL:CG1	2.12	0.63
16:W2:9:ASP:OD1	16:W2:10:ALA:N	2.31	0.63
20:e2:28:LYS:HB3	21:i2:524:U:H2'	1.79	0.63
21:i2:316:G:N1	21:i2:335:G:N1	2.46	0.63
21:i2:960:U:O2'	21:i2:962:A:N7	2.25	0.63
27:H2:53:VAL:HG13	27:H2:175:GLY:HA3	1.80	0.63
31:P2:121:ILE:HG23	31:P2:122:THR:N	2.13	0.63
8:f3:105:TYR:CZ	8:f3:131:PHE:HD2	2.10	0.63
9:g3:106:LYS:HB2	9:g3:126:ASP:HB3	1.81	0.63
9:g4:166:VAL:HG12	9:g4:176:VAL:HG22	1.80	0.63
11:G4:189:ARG:NH1	21:i4:330:G:C6	2.67	0.63
17:Y4:9:THR:O	21:i4:835:C:N4	2.32	0.63
21:i4:1280:G:H22	21:i4:1317:C:H41	1.45	0.63
4:X5:67:ARG:NH1	4:X5:114:ASP:OD2	2.31	0.63
9:g5:104:HIS:NE2	9:g5:126:ASP:OD2	2.31	0.63
14:N5:142:GLU:OE1	14:N5:145:THR:HG21	1.98	0.63
16:W5:11:LEU:HD21	16:W5:37:PHE:HE2	1.64	0.63
20:e5:45:VAL:HG21	21:i5:535:G:C1'	2.25	0.63
21:i5:94:G:O2'	21:i5:508:A:O2'	2.17	0.63
21:i5:1189:A:H2'	21:i5:1190:A:H8	1.64	0.63
21:i5:1267:C:N4	21:i5:1515:G:O6	2.31	0.63
21:i5:1816:G:N2	35:j5:20:MET:CE	2.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E5:214:ASN:ND2	25:E5:216:ASN:OD1	2.32	0.63
26:F5:106:GLU:HG2	26:F5:107:ASN:H	1.63	0.63
30:L5:125:ILE:HG22	30:L5:146:THR:OG1	1.99	0.63
31:P5:15:PHE:CZ	31:P5:109:PRO:O	2.51	0.63
33:R5:69:ILE:HG23	33:R5:70:SER:HA	1.80	0.63
1:T6:9:VAL:HG21	1:T6:135:ALA:HB1	1.79	0.63
17:Y6:109:GLU:OE2	17:Y6:113:ARG:NE	2.30	0.63
21:i6:814:U:OP1	25:E6:22:LYS:NZ	2.30	0.63
36:k1:170:LEU:HD23	36:k1:171:ASN:H	1.59	0.63
36:k2:143:LEU:O	36:k2:169:TYR:CB	2.47	0.63
36:k3:170:LEU:O	36:k3:171:ASN:C	2.41	0.63
36:k4:122:LYS:CE	36:k4:124:TYR:OH	2.41	0.63
36:k4:146:GLY:CA	36:k4:167:ILE:HD11	2.29	0.63
36:k5:93:PRO:O	36:k5:132:VAL:CA	2.47	0.63
21:i1:968:U:O5'	21:i1:968:U:H6	1.81	0.63
33:R1:61:ILE:CA	33:R1:73:LEU:HD22	2.28	0.63
6:c2:12:ALA:HA	6:c2:34:PHE:HA	1.80	0.63
18:Z2:70:PRO:HG3	18:Z2:88:LEU:CD2	2.29	0.63
21:i2:94:G:O2'	21:i2:508:A:O2'	2.16	0.63
21:i2:1267:C:N4	21:i2:1515:G:O6	2.31	0.63
27:H2:104:PRO:HA	27:H2:107:LYS:HD2	1.81	0.63
28:I2:41:ARG:HH11	28:I2:62:VAL:HG21	1.64	0.63
21:i3:94:G:O2'	21:i3:508:A:O2'	2.16	0.63
21:i3:336:A:H8	21:i3:336:A:O5'	1.81	0.63
21:i3:1280:G:H22	21:i3:1317:C:H41	1.45	0.63
26:F3:106:GLU:HG2	26:F3:107:ASN:H	1.64	0.63
4:X4:67:ARG:NH1	4:X4:114:ASP:OD2	2.31	0.63
8:f4:105:TYR:HE2	8:f4:106:TYR:OH	1.82	0.63
20:e4:39:ASN:HB2	21:i4:552:G:OP1	1.95	0.63
24:D4:22:ASN:O	24:D4:26:THR:OG1	2.15	0.63
27:H4:104:PRO:HA	27:H4:107:LYS:HD2	1.81	0.63
20:e5:43:VAL:CG1	21:i5:551:U:H1'	2.29	0.63
21:i5:318:A:C2	21:i5:333:G:N2	2.66	0.63
22:A5:214:GLU:HG3	33:R5:84:TYR:CD1	2.33	0.63
5:a6:6:ARG:NE	21:i6:1134:G:OP1	2.32	0.63
15:O6:13:GLN:HE21	15:O6:21:VAL:CG1	2.12	0.63
16:W6:11:LEU:HD21	16:W6:37:PHE:HE2	1.64	0.63
26:F6:127:ARG:O	26:F6:137:GLN:HB2	1.98	0.63
31:P6:72:LYS:NZ	31:P6:106:GLU:OE2	2.32	0.63
36:k2:7:GLU:HB3	36:k2:177:MET:CB	2.27	0.63
36:k5:170:LEU:O	36:k5:171:ASN:C	2.41	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:7:GLU:OE2	36:k6:177:MET:HA	1.99	0.63
36:k6:82:LEU:CD1	36:k6:169:TYR:HA	2.29	0.63
37:l3:117:ILE:HD12	37:l3:174:ILE:HG12	1.80	0.63
37:l6:164:ILE:CG2	37:l6:165:ILE:H	2.12	0.63
11:G1:221:LYS:O	11:G1:225:GLN:N	2.32	0.62
21:i1:523:A:H2'	21:i1:524:U:H5'	1.81	0.62
25:E1:214:ASN:ND2	25:E1:216:ASN:OD1	2.32	0.62
26:F1:106:GLU:HG2	26:F1:107:ASN:H	1.63	0.62
28:I1:41:ARG:HH11	28:I1:62:VAL:HG21	1.63	0.62
1:T2:97:LYS:NZ	21:i2:1570:G:N7	2.42	0.62
10:C2:125:LYS:HE3	21:i2:1357:A:OP1	1.98	0.62
33:R2:81:ARG:HH11	33:R2:81:ARG:HG2	1.62	0.62
9:g3:104:HIS:NE2	9:g3:126:ASP:OD2	2.31	0.62
10:C3:65:LYS:CE	10:C3:280:VAL:HB	2.28	0.62
18:Z3:46:ASN:HB3	18:Z3:80:ARG:CA	2.16	0.62
18:Z3:66:LYS:HB3	18:Z3:111:ARG:HD2	1.81	0.62
21:i3:1588:A:O2'	21:i3:1589:A:O5'	2.14	0.62
21:i3:1842:C:H2'	35:j3:4:LYS:NZ	2.13	0.62
10:C4:65:LYS:HG2	10:C4:279:ARG:CZ	2.29	0.62
10:C4:145:LYS:HG3	21:i4:1348:G:H5'	1.80	0.62
14:N4:133:ARG:HH21	30:L4:154:GLN:CD	2.06	0.62
21:i4:528:A:H8	21:i4:528:A:O5'	1.81	0.62
21:i4:1410:C:N4	21:i4:1411:G:O6	2.32	0.62
2:U5:66:ARG:HE	2:U5:75:LYS:HG2	1.64	0.62
8:f5:95:ARG:CB	21:i5:1289:U:OP1	2.47	0.62
9:g5:166:VAL:HG12	9:g5:176:VAL:HG22	1.79	0.62
15:O5:46:ASP:O	15:O5:48:SER:N	2.32	0.62
16:W5:9:ASP:OD1	16:W5:10:ALA:N	2.31	0.62
21:i5:735:C:H3'	21:i5:735:C:H6	1.64	0.62
21:i5:1280:G:H22	21:i5:1317:C:H41	1.45	0.62
21:i5:1693:G:H21	21:i5:1834:A:C1'	2.12	0.62
21:i5:1841:C:OP1	35:j5:2:ARG:CD	2.46	0.62
21:i5:1852:C:C5	35:j5:5:TRP:CD2	2.86	0.62
33:R5:5:ARG:HB2	33:R5:10:LYS:HZ1	1.64	0.62
12:J6:7:TRP:HE1	21:i6:39:A:H5'	1.64	0.62
13:M6:91:LEU:HD11	21:i6:1284:A:H61	1.64	0.62
21:i6:1410:C:N4	21:i6:1411:G:O6	2.32	0.62
26:F6:127:ARG:CB	26:F6:128:ILE:HA	2.24	0.62
31:P6:35:GLN:HA	31:P6:42:ARG:NH1	2.14	0.62
36:k2:170:LEU:CD1	36:k2:175:TRP:CH2	2.82	0.62
36:k3:170:LEU:CD2	36:k3:171:ASN:H	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:7:TRP:HE1	21:i1:39:A:H5'	1.63	0.62
21:i1:61:A:H2	21:i1:334:C:C2	2.17	0.62
23:B1:34:LYS:NZ	23:B1:95:ASN:OD1	2.28	0.62
9:g2:106:LYS:HB2	9:g2:126:ASP:HB3	1.81	0.62
13:M2:111:VAL:CG1	13:M2:114:TYR:CD1	2.81	0.62
15:O2:63:LYS:CE	28:I4:163:GLU:CG	2.72	0.62
18:Z2:66:LYS:HB3	18:Z2:111:ARG:HD2	1.80	0.62
21:i2:1354:G:N2	21:i2:1357:A:OP2	2.26	0.62
21:i2:1410:C:N4	21:i2:1411:G:O6	2.32	0.62
21:i2:1521:C:N4	34:S2:137:LYS:CE	2.62	0.62
8:f3:93:HIS:HB3	21:i3:1304:U:C5'	2.18	0.62
8:f3:95:ARG:CB	21:i3:1289:U:OP1	2.47	0.62
8:f3:96:LYS:NZ	21:i3:1306:U:O5'	2.28	0.62
16:W3:11:LEU:HD21	16:W3:37:PHE:HE2	1.64	0.62
21:i3:1189:A:H2'	21:i3:1190:A:H8	1.64	0.62
26:F3:127:ARG:O	26:F3:137:GLN:HB2	1.98	0.62
33:R3:61:ILE:CA	33:R3:73:LEU:HD22	2.29	0.62
11:G4:221:LYS:O	11:G4:225:GLN:N	2.32	0.62
18:Z4:66:LYS:HB3	18:Z4:111:ARG:HD2	1.80	0.62
21:i4:1189:A:H2'	21:i4:1190:A:H8	1.64	0.62
21:i4:1300:U:H2'	31:P4:51:ARG:HH22	1.62	0.62
30:L4:152:LYS:HE3	30:L4:152:LYS:HA	1.80	0.62
32:Q4:4:LYS:HZ3	32:Q4:99:TYR:HA	1.60	0.62
33:R4:69:ILE:HG23	33:R4:70:SER:HA	1.80	0.62
11:G5:221:LYS:O	11:G5:225:GLN:N	2.32	0.62
15:O5:103:ASN:ND2	15:O5:140:THR:O	2.33	0.62
17:Y5:9:THR:O	21:i5:835:C:N4	2.32	0.62
21:i5:12:U:C1'	21:i5:1357:A:H1'	2.27	0.62
21:i5:187:G:H8	21:i5:187:G:O5'	1.82	0.62
21:i5:528:A:H8	21:i5:528:A:O5'	1.81	0.62
21:i6:528:A:H8	21:i6:528:A:O5'	1.81	0.62
21:i6:1267:C:N4	21:i6:1515:G:O6	2.31	0.62
25:E6:214:ASN:ND2	25:E6:216:ASN:OD1	2.33	0.62
26:F6:136:ARG:O	26:F6:203:ASN:ND2	2.32	0.62
33:R6:21:TYR:CZ	33:R6:72:LYS:HE3	2.33	0.62
36:k3:94:HIS:CG	36:k3:135:MET:HG2	2.34	0.62
36:k6:170:LEU:HG	36:k6:175:TRP:CD2	2.33	0.62
37:l1:164:ILE:CG2	37:l1:165:ILE:H	2.12	0.62
37:l3:164:ILE:CG2	37:l3:165:ILE:N	2.62	0.62
37:l4:164:ILE:CG2	37:l4:165:ILE:H	2.12	0.62
37:l6:117:ILE:HD12	37:l6:174:ILE:HG12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T1:43:LYS:NZ	21:i1:1540:G:OP2	2.20	0.62
8:f1:96:LYS:NZ	21:i1:1306:U:O5'	2.28	0.62
14:N1:142:GLU:OE1	14:N1:145:THR:HG21	1.98	0.62
15:O1:13:GLN:HE21	15:O1:21:VAL:CG1	2.12	0.62
21:i1:868:G:OP1	30:L1:149:ALA:O	2.17	0.62
5:a2:6:ARG:NE	21:i2:1134:G:OP1	2.32	0.62
21:i2:691:G:H2'	21:i2:691:G:N3	2.12	0.62
1:T3:19:ALA:O	1:T3:23:LYS:N	2.33	0.62
11:G3:144:LEU:O	11:G3:145:PHE:HB2	2.00	0.62
15:O3:46:ASP:O	15:O3:48:SER:N	2.32	0.62
16:W3:49:GLU:OE1	27:H3:145:ARG:NH2	2.31	0.62
21:i3:1236:G:H4'	31:P3:132:GLY:O	1.97	0.62
21:i3:1843:G:N7	35:j3:4:LYS:NZ	2.39	0.62
27:H3:104:PRO:HA	27:H3:107:LYS:HD2	1.81	0.62
8:f4:96:LYS:NZ	21:i4:1306:U:O5'	2.28	0.62
11:G4:68:LEU:HG	11:G4:69:THR:HG23	1.81	0.62
15:O4:103:ASN:ND2	15:O4:140:THR:O	2.33	0.62
21:i4:1689:C:C2'	21:i4:1690:U:H5'	2.29	0.62
26:F4:100:ILE:HG12	26:F4:178:ILE:HD11	1.81	0.62
27:H4:163:GLN:CD	27:H4:189:PHE:CE2	2.61	0.62
8:f5:92:LYS:NZ	21:i5:1272:C:OP2	2.33	0.62
11:G5:65:GLN:NE2	21:i5:1746:U:O4'	2.31	0.62
21:i5:1069:U:O5'	36:k5:18:LYS:CE	2.46	0.62
21:i5:1070:A:P	36:k5:18:LYS:HD3	2.39	0.62
21:i5:1828:C:H4'	37:l5:154:CYS:C	2.24	0.62
8:f6:92:LYS:O	8:f6:93:HIS:HB2	1.97	0.62
21:i6:596:U:HO2'	21:i6:645:C:HO2'	1.45	0.62
30:L6:78:THR:HG21	30:L6:89:ARG:HG3	1.80	0.62
33:R6:58:MET:HA	33:R6:61:ILE:CD1	2.29	0.62
37:l2:120:ILE:CG2	37:l2:121:PRO:CD	2.77	0.62
37:l2:164:ILE:CG2	37:l2:165:ILE:H	2.12	0.62
37:l2:181:LYS:HD3	37:l2:181:LYS:N	2.15	0.62
37:l5:164:ILE:CG2	37:l5:165:ILE:H	2.12	0.62
11:G1:141:ILE:C	11:G1:144:LEU:HG	2.23	0.62
21:i1:1280:G:H22	21:i1:1317:C:H41	1.45	0.62
21:i1:1822:A:N1	21:i1:1823:A:N6	2.46	0.62
30:L1:78:THR:HG21	30:L1:89:ARG:HG3	1.80	0.62
2:U2:17:ILE:CB	2:U2:94:PRO:HA	2.28	0.62
18:Z2:85:ARG:HG3	18:Z2:85:ARG:NH2	2.13	0.62
23:B2:24:PRO:HD2	30:L4:27:GLU:CG	2.28	0.62
30:L2:31:GLU:N	23:B5:21:VAL:HG23	2.09	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M3:111:VAL:CG1	13:M3:114:TYR:CD1	2.81	0.62
21:i3:970:G:N2	28:I6:200:ARG:CZ	2.63	0.62
21:i4:525:A:H8	21:i4:525:A:O5'	1.83	0.62
21:i4:1377:U:OP2	22:A4:102:ARG:HD2	2.00	0.62
21:i4:1822:A:N1	21:i4:1823:A:N6	2.47	0.62
26:F4:33:ILE:HG13	26:F4:34:SER:H	1.63	0.62
30:L4:121:GLN:CB	30:L4:153:LYS:CD	2.77	0.62
32:Q4:6:PRO:O	32:Q4:7:LEU:HB2	2.00	0.62
2:U5:17:ILE:CB	2:U5:94:PRO:HA	2.28	0.62
2:U5:86:LYS:NZ	21:i5:1580:A:OP1	2.32	0.62
13:M5:91:LEU:HD11	21:i5:1284:A:H61	1.64	0.62
14:N5:2:GLY:N	21:i5:923:G:OP1	2.33	0.62
21:i5:61:A:C4'	21:i5:317:C:HO2'	1.87	0.62
21:i5:211:G:C5	21:i5:212:C:N3	2.67	0.62
21:i5:1314:U:H2'	21:i5:1315:U:H4'	1.81	0.62
21:i5:1488:C:O2'	21:i5:1490:G:OP2	2.16	0.62
21:i5:1785:C:O2'	21:i5:1786:U:O5'	2.15	0.62
27:H5:104:PRO:HA	27:H5:107:LYS:HD2	1.81	0.62
15:O6:46:ASP:O	15:O6:48:SER:N	2.32	0.62
17:Y6:9:THR:O	21:i6:835:C:N4	2.32	0.62
36:k3:92:LEU:HD22	36:k3:131:ILE:O	1.99	0.62
37:l2:117:ILE:HD12	37:l2:174:ILE:HG12	1.80	0.62
37:l3:120:ILE:CG2	37:l3:121:PRO:CD	2.78	0.62
37:l5:181:LYS:HD3	37:l5:181:LYS:N	2.15	0.62
1:T1:19:ALA:O	1:T1:23:LYS:N	2.33	0.62
8:f1:105:TYR:HE2	8:f1:106:TYR:OH	1.82	0.62
8:f1:147:THR:HG21	21:i1:1293:A:C2	2.35	0.62
21:i1:795:A:H2'	21:i1:796:G:C8	2.34	0.62
21:i1:1040:G:OP1	36:k1:46:LYS:HE2	1.98	0.62
21:i1:1189:A:H2'	21:i1:1190:A:H8	1.64	0.62
21:i1:1520:G:OP1	34:S1:135:HIS:HB3	1.99	0.62
25:E1:189:LEU:H	25:E1:245:ARG:HH22	1.47	0.62
26:F1:100:ILE:HG12	26:F1:178:ILE:HD11	1.82	0.62
8:f2:92:LYS:NZ	21:i2:1272:C:OP2	2.33	0.62
11:G2:141:ILE:C	11:G2:144:LEU:HG	2.23	0.62
25:E2:214:ASN:ND2	25:E2:216:ASN:OD1	2.33	0.62
28:I2:125:LYS:HB3	15:O5:66:ARG:NH1	2.14	0.62
31:P2:72:LYS:NZ	31:P2:106:GLU:OE2	2.32	0.62
8:f3:105:TYR:HE2	8:f3:106:TYR:OH	1.82	0.62
15:O3:103:ASN:ND2	15:O3:140:THR:O	2.33	0.62
22:A3:33:GLN:HB2	22:A3:154:LEU:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g4:106:LYS:HB2	9:g4:126:ASP:HB3	1.81	0.62
10:C4:123:ARG:NH2	10:C4:143:CYS:SG	2.73	0.62
15:O4:13:GLN:HE21	15:O4:21:VAL:CG1	2.12	0.62
9:g5:44:LYS:N	9:g5:55:PRO:O	2.33	0.62
9:g5:88:ARG:HD2	9:g5:90:TRP:CE2	2.35	0.62
11:G5:149:LYS:HB2	11:G5:149:LYS:HZ2	1.64	0.62
21:i5:316:G:H22	21:i5:335:G:H22	1.47	0.62
21:i5:336:A:H8	21:i5:336:A:O5'	1.82	0.62
23:B5:128:LYS:HD3	23:B5:134:LEU:HD13	1.81	0.62
2:U6:25:THR:OG1	2:U6:111:GLU:OE1	2.17	0.62
8:f6:105:TYR:CZ	8:f6:131:PHE:HD2	2.10	0.62
10:C6:65:LYS:CE	10:C6:280:VAL:HB	2.28	0.62
21:i6:1058:A:H2	37:l6:126:LYS:CE	2.12	0.62
21:i6:1351:G:C2	21:i6:1352:G:C5	2.88	0.62
25:E6:71:LYS:HG3	25:E6:91:SER:HB2	1.79	0.62
36:k6:95:GLN:HG2	36:k6:132:VAL:HG21	1.80	0.62
36:k6:122:LYS:CE	36:k6:124:TYR:OH	2.41	0.62
36:k6:146:GLY:HA2	36:k6:167:ILE:HG12	1.80	0.62
37:l1:120:ILE:CG2	37:l1:121:PRO:CD	2.78	0.62
37:l6:120:ILE:CG2	37:l6:121:PRO:CD	2.78	0.62
8:f1:80:ARG:CD	21:i1:1509:U:C4	2.70	0.62
14:N1:137:PRO:HG3	30:L1:154:GLN:HB2	1.82	0.62
19:b1:44:THR:O	19:b1:45:THR:C	2.41	0.62
21:i1:13:C:O2'	21:i1:1355:C:N3	2.27	0.62
22:A1:33:GLN:HB2	22:A1:154:LEU:HD12	1.80	0.62
27:H1:53:VAL:HG13	27:H1:175:GLY:HA3	1.80	0.62
8:f2:80:ARG:CD	21:i2:1509:U:C4	2.72	0.62
8:f2:96:LYS:NZ	21:i2:1306:U:O5'	2.28	0.62
9:g2:88:ARG:HD2	9:g2:90:TRP:CE2	2.35	0.62
10:C2:65:LYS:HG2	10:C2:279:ARG:CZ	2.29	0.62
10:C2:123:ARG:NH2	10:C2:143:CYS:SG	2.73	0.62
11:G2:144:LEU:O	11:G2:145:PHE:HB2	1.99	0.62
15:O2:46:ASP:O	15:O2:48:SER:N	2.32	0.62
30:L2:121:GLN:CB	30:L2:153:LYS:HD2	2.26	0.62
33:R2:60:ARG:HG3	33:R2:60:ARG:HH11	1.62	0.62
9:g3:158:PRO:HG2	9:g3:202:PRO:HB3	1.82	0.62
10:C3:123:ARG:NH2	10:C3:143:CYS:SG	2.73	0.62
21:i3:1520:G:OP1	34:S3:135:HIS:HB3	2.00	0.62
25:E3:189:LEU:H	25:E3:245:ARG:HH22	1.46	0.62
28:I3:206:LYS:C	36:k1:12:SER:OG	2.43	0.62
31:P3:72:LYS:NZ	31:P3:106:GLU:OE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:558:G:H8	21:i4:558:G:O5'	1.82	0.62
22:A4:33:GLN:HB2	22:A4:154:LEU:HD12	1.80	0.62
4:X5:55:VAL:HG11	20:e5:2:VAL:HG13	1.82	0.62
18:Z5:49:LEU:H	18:Z5:83:LEU:CD1	2.13	0.62
21:i5:335:G:H8	21:i5:335:G:O5'	1.83	0.62
21:i5:739:C:C2'	21:i5:746:C:H42	2.13	0.62
21:i5:1852:C:P	35:j5:2:ARG:H	2.23	0.62
25:E5:189:LEU:H	25:E5:245:ARG:HH22	1.46	0.62
5:a6:102:ARG:H	5:a6:103:PRO:HA	1.64	0.62
8:f6:80:ARG:CZ	21:i6:1509:U:C4	2.73	0.62
20:e6:45:VAL:HG13	21:i6:534:G:H4'	1.79	0.62
21:i6:318:A:H2	21:i6:332:G:H22	1.47	0.62
21:i6:695:C:H4'	21:i6:695:C:OP1	1.99	0.62
26:F6:100:ILE:HG12	26:F6:178:ILE:HD11	1.81	0.62
36:k3:106:LEU:HD22	36:k3:169:TYR:HD1	1.65	0.62
36:k4:95:GLN:HB2	36:k4:134:ILE:HD11	1.67	0.62
36:k4:96:GLN:HE22	36:k4:122:LYS:CD	2.13	0.62
37:l5:120:ILE:CG2	37:l5:121:PRO:CD	2.78	0.62
4:X1:55:VAL:HG11	20:e1:2:VAL:HG13	1.82	0.62
10:C1:65:LYS:HG2	10:C1:279:ARG:CZ	2.29	0.62
14:N1:2:GLY:N	21:i1:923:G:OP1	2.33	0.62
15:O1:46:ASP:O	15:O1:48:SER:N	2.32	0.62
17:Y1:9:THR:O	21:i1:835:C:N4	2.32	0.62
21:i1:525:A:H61	21:i1:588:G:H22	1.45	0.62
21:i1:688:U:H1'	21:i1:689:U:P	2.35	0.62
21:i1:1033:G:N1	21:i1:1080:A:O2'	2.32	0.62
21:i1:1841:C:P	35:j1:2:ARG:CD	2.88	0.62
2:U2:25:THR:OG1	2:U2:111:GLU:OE1	2.17	0.62
8:f2:147:THR:HG21	21:i2:1293:A:C2	2.35	0.62
21:i2:528:A:H8	21:i2:528:A:O5'	1.82	0.62
21:i2:695:C:OP1	21:i2:695:C:H4'	1.99	0.62
21:i2:1314:U:H2'	21:i2:1315:U:H4'	1.81	0.62
21:i2:1822:A:N1	21:i2:1823:A:N6	2.46	0.62
2:U3:66:ARG:HE	2:U3:75:LYS:HG2	1.64	0.62
5:a3:101:PHE:HB3	5:a3:102:ARG:NH1	2.15	0.62
8:f3:92:LYS:O	8:f3:93:HIS:HB2	1.97	0.62
11:G3:68:LEU:HG	11:G3:69:THR:HG23	1.81	0.62
14:N3:148:ALA:HB3	14:N3:149:LEU:CA	2.18	0.62
18:Z3:70:PRO:HG3	18:Z3:88:LEU:CD2	2.29	0.62
27:H3:163:GLN:HE21	27:H3:189:PHE:HE2	1.46	0.62
11:G4:141:ILE:C	11:G4:144:LEU:HG	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z4:49:LEU:H	18:Z4:83:LEU:CD1	2.13	0.62
21:i4:1621:U:OP2	31:P4:40:ARG:HG3	1.99	0.62
31:P4:15:PHE:CZ	31:P4:112:ILE:CD1	2.78	0.62
3:V5:74:LYS:O	3:V5:81:LYS:NZ	2.31	0.62
5:a5:25:ASN:OD1	5:a5:26:CYS:N	2.33	0.62
5:a5:101:PHE:HB3	5:a5:102:ARG:NH1	2.15	0.62
8:f5:147:THR:HG21	21:i5:1293:A:C2	2.35	0.62
21:i5:377:G:N2	21:i5:387:C:O2	2.33	0.62
21:i5:688:U:C1'	21:i5:689:U:OP2	2.46	0.62
21:i5:1208:A:N1	21:i5:1209:A:C6	2.67	0.62
8:f6:93:HIS:HB3	21:i6:1304:U:C5'	2.18	0.62
8:f6:99:LYS:CB	21:i6:1285:G:N2	2.36	0.62
9:g6:88:ARG:HD2	9:g6:90:TRP:CE2	2.35	0.62
11:G6:147:LEU:O	11:G6:148:SER:HB3	1.97	0.62
11:G6:221:LYS:O	11:G6:225:GLN:N	2.32	0.62
15:O6:146:ARG:HE	21:i6:1857:G:H5''	1.65	0.62
21:i6:1520:G:OP1	34:S6:135:HIS:HB3	2.00	0.62
27:H6:66:VAL:HG22	27:H6:96:ALA:HB1	1.81	0.62
32:Q6:6:PRO:O	32:Q6:7:LEU:HB2	2.00	0.62
36:k1:86:HIS:CG	36:k1:141:HIS:CG	2.88	0.62
6:c1:12:ALA:HA	6:c1:34:PHE:HA	1.80	0.62
18:Z1:50:PHE:O	34:S1:5:ILE:HG22	1.92	0.62
21:i1:523:A:C2'	21:i1:524:U:H5'	2.30	0.62
21:i1:1069:U:C5'	36:k1:16:GLN:HB3	2.30	0.62
21:i1:1464:C:OP1	33:R1:60:ARG:NH2	2.33	0.62
21:i1:1621:U:H4'	31:P1:115:TYR:CE1	2.35	0.62
21:i1:1842:C:OP2	35:j1:4:LYS:CB	2.48	0.62
27:H1:104:PRO:HA	27:H1:107:LYS:HD2	1.81	0.62
30:L1:30:LYS:CE	23:B6:21:VAL:C	2.68	0.62
34:S1:108:ARG:CD	21:i3:1760:G:N2	2.61	0.62
2:U2:17:ILE:HG22	2:U2:95:SER:N	2.03	0.62
27:H2:163:GLN:HE21	27:H2:189:PHE:HE2	1.46	0.62
31:P2:119:PHE:HE1	34:S2:119:ALA:HB1	1.46	0.62
10:C3:267:GLN:HB2	22:A3:120:ARG:HH22	1.65	0.62
12:J3:11:LYS:NZ	12:J3:13:TYR:O	2.30	0.62
13:M3:91:LEU:HD11	21:i3:1284:A:H61	1.64	0.62
18:Z3:85:ARG:HG3	18:Z3:85:ARG:NH2	2.13	0.62
21:i3:440:G:O2'	21:i3:1737:G:H1'	1.99	0.62
28:I3:67:TRP:CD1	28:I3:70:GLU:H	2.18	0.62
4:X4:134:TYR:OH	20:e4:13:ARG:NH1	2.33	0.62
5:a4:101:PHE:HB3	5:a4:102:ARG:NH1	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:147:THR:HG21	21:i4:1293:A:C2	2.35	0.62
10:C4:65:LYS:CB	10:C4:279:ARG:CB	2.72	0.62
11:G4:141:ILE:HG12	11:G4:144:LEU:CD2	1.94	0.62
21:i4:1621:U:O4	31:P4:82:ASP:CG	2.41	0.62
25:E4:214:ASN:ND2	25:E4:216:ASN:OD1	2.32	0.62
5:a5:6:ARG:NE	21:i5:1134:G:OP1	2.32	0.62
14:N5:47:PRO:HD2	14:N5:86:GLU:HG3	1.80	0.62
21:i5:1172:U:H4'	35:j5:10:MET:HE1	1.73	0.62
1:T6:19:ALA:O	1:T6:23:LYS:N	2.33	0.62
2:U6:66:ARG:HE	2:U6:75:LYS:HG2	1.64	0.62
10:C6:65:LYS:HG2	10:C6:279:ARG:CZ	2.29	0.62
11:G6:68:LEU:HG	11:G6:69:THR:HG23	1.81	0.62
18:Z6:70:PRO:HG3	18:Z6:88:LEU:CD2	2.29	0.62
36:k2:83:ARG:HH21	36:k2:175:TRP:CG	2.17	0.62
2:U1:25:THR:OG1	2:U1:111:GLU:OE1	2.16	0.62
8:f1:92:LYS:NZ	21:i1:1272:C:OP2	2.33	0.62
11:G1:68:LEU:HG	11:G1:69:THR:HG23	1.80	0.62
14:N1:133:ARG:CD	30:L1:152:LYS:CG	2.78	0.62
16:W1:37:PHE:CE1	16:W1:103:VAL:HG21	2.33	0.62
18:Z1:70:PRO:HG3	18:Z1:88:LEU:CD2	2.29	0.62
18:Z1:80:ARG:HH12	34:S1:23:ARG:HD2	1.65	0.62
19:b1:38:PRO:HD3	19:b1:77:CYS:SG	2.39	0.62
9:g2:44:LYS:N	9:g2:55:PRO:O	2.33	0.62
13:M2:91:LEU:HD11	21:i2:1284:A:H61	1.64	0.62
14:N2:133:ARG:HD2	30:L2:152:LYS:HB3	1.80	0.62
26:F2:33:ILE:HG13	26:F2:34:SER:H	1.63	0.62
29:K2:60:GLU:HB3	29:K2:69:TRP:HA	1.82	0.62
16:W3:117:ARG:HG3	16:W3:117:ARG:NH1	2.12	0.62
31:P3:16:THR:HG22	34:S3:91:LYS:O	1.98	0.62
2:U4:66:ARG:HE	2:U4:75:LYS:HG2	1.64	0.62
9:g4:88:ARG:HD2	9:g4:90:TRP:CE2	2.35	0.62
13:M4:91:LEU:HD11	21:i4:1284:A:H61	1.64	0.62
21:i4:211:G:C4	21:i4:212:C:N3	2.67	0.62
21:i4:213:G:N1	21:i4:214:U:N3	2.44	0.62
21:i4:316:G:N2	21:i4:335:G:C4	2.67	0.62
21:i4:1236:G:C6	34:S4:137:LYS:HE3	2.33	0.62
8:f5:80:ARG:CZ	21:i5:1509:U:O4	2.48	0.62
11:G5:68:LEU:HG	11:G5:69:THR:HG23	1.81	0.62
15:O5:13:GLN:HE21	15:O5:21:VAL:CG1	2.12	0.62
18:Z5:50:PHE:O	34:S5:5:ILE:HG22	1.93	0.62
22:A5:33:GLN:HB2	22:A5:154:LEU:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g6:87:LEU:HB3	9:g6:101:PHE:H	1.63	0.62
21:i6:377:G:N2	21:i6:387:C:O2	2.33	0.62
21:i6:1189:A:H2'	21:i6:1190:A:H8	1.64	0.62
21:i6:1208:A:C6	21:i6:1209:A:N6	2.68	0.62
21:i6:1351:G:C5	21:i6:1352:G:C5	2.88	0.62
28:I6:67:TRP:CD1	28:I6:70:GLU:H	2.18	0.62
36:k5:94:HIS:HA	36:k5:133:ALA:CA	2.30	0.62
36:k6:171:ASN:C	36:k6:176:HIS:NE2	2.58	0.62
37:l1:117:ILE:HD12	37:l1:174:ILE:HG12	1.80	0.62
37:l1:142:LYS:CE	37:l1:146:ARG:HH11	2.13	0.62
37:l1:164:ILE:CG2	37:l1:165:ILE:N	2.62	0.62
37:l2:164:ILE:CG2	37:l2:165:ILE:N	2.62	0.62
37:l4:180:GLU:HA	37:l4:181:LYS:CB	2.26	0.62
37:l5:117:ILE:HD12	37:l5:174:ILE:HG12	1.80	0.62
37:l5:142:LYS:CE	37:l5:146:ARG:HH11	2.13	0.62
37:l5:164:ILE:CG2	37:l5:165:ILE:N	2.62	0.62
37:l6:142:LYS:CE	37:l6:146:ARG:HH11	2.13	0.62
8:f1:95:ARG:CB	21:i1:1289:U:OP1	2.47	0.62
21:i1:368:U:C2	36:k6:109:ALA:HB1	2.35	0.62
21:i1:1175:G:OP2	35:j1:21:ARG:CZ	2.48	0.62
14:N2:148:ALA:HB3	14:N2:149:LEU:CA	2.17	0.62
18:Z2:49:LEU:H	18:Z2:83:LEU:CD1	2.13	0.62
21:i2:1520:G:OP1	34:S2:135:HIS:HB3	2.00	0.62
8:f3:92:LYS:NZ	21:i3:1272:C:OP2	2.33	0.62
9:g3:88:ARG:HD2	9:g3:90:TRP:CE2	2.35	0.62
11:G3:187:HIS:NE2	21:i3:317:C:N4	2.45	0.62
21:i3:1521:C:H42	34:S3:137:LYS:HE3	1.65	0.62
28:I3:207:GLY:CA	36:k1:12:SER:OG	2.48	0.62
10:C4:65:LYS:HE3	10:C4:280:VAL:HB	1.82	0.62
14:N4:2:GLY:N	21:i4:923:G:OP1	2.33	0.62
21:i4:795:A:H2'	21:i4:796:G:C8	2.34	0.62
21:i4:1777:G:C5	21:i4:1778:C:N4	2.68	0.62
22:A4:12:GLU:HG3	22:A4:13:GLU:H	1.63	0.62
2:U5:22:ILE:N	2:U5:89:ILE:O	2.32	0.62
10:C5:65:LYS:HG2	10:C5:279:ARG:CZ	2.29	0.62
13:M5:27:ILE:HG22	29:K5:84:HIS:CE1	2.31	0.62
18:Z5:85:ARG:HG3	18:Z5:85:ARG:NH2	2.13	0.62
28:I5:67:TRP:CD1	28:I5:70:GLU:H	2.18	0.62
21:i6:525:A:H8	21:i6:525:A:O5'	1.82	0.62
21:i6:1777:G:C5	21:i6:1778:C:N4	2.68	0.62
33:R6:21:TYR:CZ	33:R6:72:LYS:CE	2.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:7:GLU:OE2	36:k2:177:MET:HA	1.99	0.62
5:a1:25:ASN:OD1	5:a1:26:CYS:N	2.33	0.61
9:g1:88:ARG:HD2	9:g1:90:TRP:CE2	2.35	0.61
21:i1:689:U:O4	27:H1:122:LEU:HD13	1.95	0.61
21:i1:735:C:H6	21:i1:735:C:H3'	1.65	0.61
30:L1:73:LEU:O	30:L1:128:VAL:N	2.30	0.61
5:a2:25:ASN:OD1	5:a2:26:CYS:N	2.33	0.61
14:N2:2:GLY:N	21:i2:923:G:OP1	2.33	0.61
15:O2:63:LYS:HZ2	28:I4:158:ILE:HD11	1.63	0.61
25:E2:189:LEU:H	25:E2:245:ARG:HH22	1.46	0.61
28:I2:125:LYS:CD	15:O5:66:ARG:NH1	2.60	0.61
33:R2:77:GLU:HG2	33:R2:81:ARG:HG3	1.81	0.61
6:c3:29:GLN:HG3	6:c3:45:ASN:HB3	1.82	0.61
8:f3:80:ARG:NE	21:i3:1509:U:C4	2.68	0.61
18:Z3:83:LEU:HD21	34:S3:55:ARG:HH21	1.64	0.61
21:i3:377:G:N2	21:i3:387:C:O2	2.33	0.61
21:i3:1069:U:OP1	36:k3:18:LYS:HE2	2.00	0.61
21:i3:1410:C:N4	21:i3:1411:G:O6	2.32	0.61
21:i3:1755:C:O2	21:i3:1777:G:N2	2.33	0.61
25:E3:214:ASN:ND2	25:E3:216:ASN:OD1	2.32	0.61
26:F3:28:VAL:HG23	26:F3:109:LEU:HD22	1.82	0.61
33:R3:69:ILE:HG23	33:R3:70:SER:HA	1.81	0.61
2:U4:86:LYS:NZ	21:i4:1580:A:OP1	2.32	0.61
10:C4:267:GLN:HB2	22:A4:120:ARG:HH22	1.65	0.61
23:B4:128:LYS:HD3	23:B4:134:LEU:HD13	1.81	0.61
26:F4:182:LYS:HA	21:i5:201:C:P	2.39	0.61
27:H4:53:VAL:HG13	27:H4:175:GLY:HA3	1.81	0.61
30:L4:125:ILE:HG22	30:L4:146:THR:OG1	2.00	0.61
23:B5:134:LEU:HG	23:B5:218:LEU:HD12	1.82	0.61
27:H5:66:VAL:HG22	27:H5:96:ALA:HB1	1.81	0.61
8:f6:147:THR:HG21	21:i6:1293:A:C2	2.35	0.61
10:C6:267:GLN:HA	22:A6:120:ARG:HH12	1.63	0.61
14:N6:71:ILE:HA	14:N6:74:ILE:HG22	1.82	0.61
21:i6:1314:U:H2'	21:i6:1315:U:H4'	1.80	0.61
23:B6:128:LYS:HD3	23:B6:134:LEU:HD13	1.81	0.61
23:B6:134:LEU:HG	23:B6:218:LEU:HD12	1.82	0.61
36:k4:83:ARG:CG	36:k4:175:TRP:CE3	2.82	0.61
36:k4:94:HIS:C	36:k4:133:ALA:O	2.43	0.61
36:k5:170:LEU:HD23	36:k5:171:ASN:H	1.63	0.61
36:k5:170:LEU:CD2	36:k5:171:ASN:H	2.12	0.61
37:l1:128:VAL:CG1	37:l1:166:ILE:C	2.70	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l3:142:LYS:CE	37:l3:146:ARG:HH11	2.13	0.61
9:g1:44:LYS:N	9:g1:55:PRO:O	2.33	0.61
13:M1:14:VAL:CG1	13:M1:127:TYR:CD1	2.74	0.61
21:i1:529:A:N6	21:i1:554:A:N1	2.47	0.61
28:I1:161:LEU:CG	21:i6:969:U:C5	2.73	0.61
2:U2:66:ARG:HE	2:U2:75:LYS:HG2	1.64	0.61
6:c2:29:GLN:HG3	6:c2:45:ASN:HB3	1.82	0.61
8:f2:105:TYR:HE2	8:f2:106:TYR:OH	1.82	0.61
21:i2:377:G:N2	21:i2:387:C:O2	2.33	0.61
25:E2:180:LEU:HA	25:E2:194:VAL:HA	1.82	0.61
31:P2:15:PHE:O	31:P2:16:THR:OG1	2.18	0.61
31:P2:41:GLN:OE1	31:P2:84:ILE:CG1	2.48	0.61
8:f3:147:THR:HG21	21:i3:1293:A:C2	2.35	0.61
9:g3:220:ASP:O	9:g3:224:GLY:N	2.33	0.61
14:N3:2:GLY:N	21:i3:923:G:OP1	2.33	0.61
15:O3:13:GLN:HE21	15:O3:21:VAL:CG1	2.12	0.61
21:i3:960:U:O2'	21:i3:962:A:N7	2.25	0.61
21:i3:1464:C:OP1	33:R3:60:ARG:NH2	2.33	0.61
31:P3:45:LEU:HD12	31:P3:49:LEU:CD2	2.31	0.61
19:b4:36:LYS:HB2	19:b4:78:SER:HG	1.64	0.61
21:i4:1717:C:HO2'	35:j4:21:ARG:HG3	1.64	0.61
21:i4:1849:G:H1'	21:i4:1850:A:H5'	1.82	0.61
28:I4:67:TRP:CD1	28:I4:70:GLU:H	2.18	0.61
32:Q4:4:LYS:HZ2	32:Q4:99:TYR:HD1	1.46	0.61
18:Z5:111:ARG:O	18:Z5:113:THR:HG23	2.00	0.61
21:i5:211:G:N7	21:i5:212:C:C4	2.68	0.61
21:i5:1520:G:OP1	34:S5:135:HIS:HB3	2.00	0.61
21:i5:1755:C:O2	21:i5:1777:G:N2	2.33	0.61
26:F5:33:ILE:HG13	26:F5:34:SER:H	1.63	0.61
26:F5:127:ARG:CB	26:F5:128:ILE:HA	2.24	0.61
4:X6:55:VAL:HG11	20:e6:2:VAL:HG13	1.82	0.61
29:K6:52:LEU:HA	29:K6:55:ARG:HG2	1.82	0.61
36:k1:144:CYS:CB	36:k1:168:HIS:O	2.48	0.61
36:k4:95:GLN:HG2	36:k4:164:ILE:HD13	1.80	0.61
36:k4:140:GLN:HG2	36:k4:141:HIS:CE1	2.35	0.61
36:k5:94:HIS:CB	36:k5:135:MET:HG2	2.30	0.61
36:k5:112:MET:CG	36:k5:114:PRO:HD2	2.17	0.61
36:k5:140:GLN:HG2	36:k5:141:HIS:CE1	2.35	0.61
36:k6:2:PHE:CG	36:k6:168:HIS:CE1	2.88	0.61
37:l1:182:TRP:CB	37:l1:183:PRO:HA	2.07	0.61
37:l4:142:LYS:CE	37:l4:146:ARG:HH11	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T1:124:THR:HG23	1:T1:127:GLY:H	1.65	0.61
10:C1:123:ARG:NH2	10:C1:143:CYS:SG	2.73	0.61
15:O1:103:ASN:ND2	15:O1:140:THR:O	2.33	0.61
15:O1:146:ARG:HE	21:i1:1857:G:H5''	1.65	0.61
21:i1:1615:U:O4	31:P1:40:ARG:NH2	2.33	0.61
31:P1:72:LYS:NZ	31:P1:106:GLU:OE2	2.32	0.61
33:R1:81:ARG:HH11	33:R1:81:ARG:HG2	1.63	0.61
16:W2:11:LEU:HD21	16:W2:37:PHE:HE2	1.64	0.61
18:Z2:111:ARG:O	18:Z2:113:THR:HG23	2.01	0.61
21:i2:1621:U:OP2	31:P2:40:ARG:HG3	2.00	0.61
21:i2:1852:C:C5	35:j2:5:TRP:NE1	2.68	0.61
26:F2:100:ILE:HG12	26:F2:178:ILE:HD11	1.81	0.61
8:f3:90:LYS:HE3	21:i3:1270:G:OP1	2.00	0.61
9:g3:44:LYS:N	9:g3:55:PRO:O	2.33	0.61
18:Z3:49:LEU:H	18:Z3:83:LEU:CD1	2.13	0.61
26:F3:33:ILE:HG13	26:F3:34:SER:H	1.63	0.61
31:P3:122:THR:O	31:P3:122:THR:HG23	2.01	0.61
5:a4:102:ARG:H	5:a4:103:PRO:HA	1.64	0.61
18:Z4:70:PRO:HG3	18:Z4:88:LEU:CD2	2.29	0.61
21:i4:1693:G:H21	21:i4:1834:A:C1'	2.13	0.61
23:B4:134:LEU:HG	23:B4:218:LEU:HD12	1.82	0.61
29:K4:60:GLU:HB3	29:K4:69:TRP:HA	1.82	0.61
31:P4:133:ILE:HG22	31:P4:134:GLY:H	1.65	0.61
32:Q4:130:LYS:HA	32:Q4:137:ALA:HA	1.80	0.61
22:A5:209:GLU:O	22:A5:213:GLU:HB2	1.99	0.61
8:f6:105:TYR:HE2	8:f6:106:TYR:OH	1.82	0.61
10:C6:123:ARG:NH2	10:C6:143:CYS:SG	2.73	0.61
15:O6:103:ASN:ND2	15:O6:140:THR:O	2.33	0.61
21:i6:1785:C:O2'	21:i6:1786:U:O5'	2.15	0.61
37:l4:117:ILE:HD12	37:l4:174:ILE:HG12	1.81	0.61
4:X1:67:ARG:NH1	4:X1:114:ASP:OD2	2.31	0.61
20:e1:36:MET:CE	21:i1:553:U:OP1	2.48	0.61
21:i1:1388:A:O2'	24:D1:205:PRO:O	2.16	0.61
26:F1:28:VAL:HG23	26:F1:109:LEU:HD22	1.82	0.61
33:R1:61:ILE:HA	33:R1:64:GLY:O	2.01	0.61
20:e2:45:VAL:CB	21:i2:535:G:H4'	2.30	0.61
21:i2:557:U:C3'	21:i2:558:G:C8	2.82	0.61
21:i2:735:C:H6	21:i2:735:C:H3'	1.65	0.61
21:i2:814:U:OP1	25:E2:22:LYS:NZ	2.30	0.61
21:i2:1755:C:O2	21:i2:1777:G:N2	2.33	0.61
21:i2:1849:G:O6	37:l2:149:ALA:CB	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B2:22:VAL:N	30:L4:30:LYS:CE	2.64	0.61
23:B2:128:LYS:HD3	23:B2:134:LEU:HD13	1.81	0.61
17:Y3:9:THR:O	21:i3:835:C:N4	2.32	0.61
18:Z3:111:ARG:O	18:Z3:113:THR:HG23	2.00	0.61
21:i3:130:G:P	21:i3:214:U:O4	2.59	0.61
27:H3:66:VAL:HG22	27:H3:96:ALA:HB1	1.81	0.61
20:e4:45:VAL:HG12	21:i4:534:G:HO2'	1.58	0.61
21:i4:312:G:H5'	21:i4:313:A:H5'	1.82	0.61
21:i4:1828:C:O4'	37:l4:154:CYS:HA	2.00	0.61
24:D4:11:PHE:O	24:D4:15:GLY:N	2.31	0.61
28:I4:101:ILE:HD12	28:I4:190:LEU:HD11	1.82	0.61
31:P4:41:GLN:NE2	31:P4:84:ILE:CG2	2.51	0.61
32:Q4:4:LYS:HD3	32:Q4:8:GLN:HE21	1.65	0.61
8:f5:96:LYS:HZ3	21:i5:1306:U:H3'	1.64	0.61
21:i5:1594:A:OP1	32:Q5:45:ARG:NH2	2.32	0.61
21:i5:1841:C:OP1	35:j5:2:ARG:HD3	2.00	0.61
24:D5:64:ARG:CD	29:K5:95:ARG:HH22	2.14	0.61
27:H5:163:GLN:HE21	27:H5:189:PHE:HE2	1.46	0.61
29:K5:52:LEU:HA	29:K5:55:ARG:HG2	1.82	0.61
31:P5:133:ILE:HG22	31:P5:134:GLY:N	2.15	0.61
5:a6:25:ASN:OD1	5:a6:26:CYS:N	2.33	0.61
8:f6:92:LYS:NZ	21:i6:1272:C:OP2	2.33	0.61
10:C6:267:GLN:HB2	22:A6:120:ARG:HH22	1.65	0.61
12:J6:169:ARG:HD2	12:J6:170:PRO:HD2	1.82	0.61
14:N6:4:MET:HE3	14:N6:124:ARG:HD3	1.83	0.61
18:Z6:49:LEU:H	18:Z6:83:LEU:CD1	2.13	0.61
21:i6:1621:U:O4	31:P6:82:ASP:CG	2.41	0.61
36:k1:2:PHE:CB	36:k1:174:LEU:HB2	2.30	0.61
37:l2:152:PHE:CD1	37:l2:173:ASP:OD1	2.54	0.61
37:l4:120:ILE:CG2	37:l4:121:PRO:CD	2.78	0.61
37:l4:164:ILE:CG2	37:l4:165:ILE:N	2.62	0.61
37:l4:181:LYS:HD3	37:l4:181:LYS:N	2.15	0.61
37:l5:152:PHE:CD1	37:l5:173:ASP:OD1	2.54	0.61
11:G1:65:GLN:NE2	21:i1:1746:U:C1'	2.63	0.61
21:i1:1755:C:O2	21:i1:1777:G:N2	2.33	0.61
32:Q1:4:LYS:HD3	32:Q1:8:GLN:HE21	1.66	0.61
5:a2:102:ARG:H	5:a2:103:PRO:HA	1.64	0.61
11:G2:186:GLN:HA	21:i2:331:C:H41	1.60	0.61
14:N2:4:MET:HE3	14:N2:124:ARG:HD3	1.83	0.61
21:i2:557:U:HO2'	21:i2:558:G:C1'	2.13	0.61
21:i2:1189:A:H2'	21:i2:1190:A:H8	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1522:A:H61	31:P2:131:PRO:HB3	1.63	0.61
21:i2:1751:C:C4	21:i2:1781:A:H2	2.19	0.61
26:F2:28:VAL:HG23	26:F2:109:LEU:HD22	1.83	0.61
5:a3:25:ASN:OD1	5:a3:26:CYS:N	2.33	0.61
21:i3:628:A:N6	24:D3:145:GLN:HG2	2.08	0.61
21:i3:733:C:C5	27:H3:149:ASP:O	2.53	0.61
21:i3:1828:C:H4'	37:l3:154:CYS:SG	2.41	0.61
21:i3:1842:C:H2'	35:j3:4:LYS:HZ3	1.66	0.61
23:B3:128:LYS:HD3	23:B3:134:LEU:HD13	1.81	0.61
28:I3:199:LEU:HD12	28:I3:199:LEU:C	2.25	0.61
1:T4:124:THR:HG23	1:T4:127:GLY:H	1.65	0.61
13:M4:27:ILE:CG2	29:K4:84:HIS:ND1	2.46	0.61
16:W4:11:LEU:HD21	16:W4:37:PHE:HE2	1.64	0.61
24:D4:64:ARG:CD	29:K4:95:ARG:HH22	2.14	0.61
31:P4:41:GLN:OE1	31:P4:84:ILE:CG1	2.48	0.61
13:M6:27:ILE:HG22	29:K6:84:HIS:CE1	2.31	0.61
21:i6:312:G:H5'	21:i6:313:A:H5'	1.82	0.61
30:L6:73:LEU:O	30:L6:128:VAL:N	2.30	0.61
31:P6:34:MET:O	31:P6:42:ARG:CG	2.48	0.61
36:k6:43:ILE:HD11	36:k6:88:TYR:CE2	2.36	0.61
37:l3:181:LYS:HD3	37:l3:181:LYS:N	2.14	0.61
10:C1:267:GLN:HB2	22:A1:120:ARG:HH22	1.65	0.61
10:C1:277:HIS:NE2	10:C1:279:ARG:HD3	2.16	0.61
11:G1:144:LEU:O	11:G1:145:PHE:HB2	2.00	0.61
12:J1:11:LYS:NZ	12:J1:13:TYR:O	2.30	0.61
16:W1:11:LEU:HD21	16:W1:37:PHE:HE2	1.64	0.61
21:i1:12:U:C4'	21:i1:1357:A:C4'	2.78	0.61
21:i1:947:G:H1	21:i1:979:C:H42	1.49	0.61
28:I1:101:ILE:HD12	28:I1:190:LEU:HD11	1.82	0.61
29:K1:52:LEU:HA	29:K1:55:ARG:HG2	1.83	0.61
1:T2:19:ALA:O	1:T2:23:LYS:N	2.32	0.61
8:f2:93:HIS:HB3	21:i2:1304:U:C5'	2.18	0.61
27:H2:66:VAL:HG22	27:H2:96:ALA:HB1	1.81	0.61
33:R2:78:ARG:O	33:R2:82:ASP:HB2	1.99	0.61
12:J3:169:ARG:HD2	12:J3:170:PRO:HD2	1.82	0.61
21:i3:1621:U:OP2	31:P3:40:ARG:HG3	2.01	0.61
23:B3:134:LEU:HG	23:B3:218:LEU:HD12	1.82	0.61
34:S3:108:ARG:HH21	21:i6:1773:C:H5'	1.61	0.61
2:U4:67:LYS:HB2	2:U4:78:ASP:HB2	1.83	0.61
5:a4:25:ASN:OD1	5:a4:26:CYS:N	2.33	0.61
5:a4:100:ARG:HH11	5:a4:100:ARG:CG	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J4:148:ILE:O	21:i4:821:G:N2	2.34	0.61
14:N4:148:ALA:HB3	14:N4:149:LEU:CA	2.18	0.61
18:Z4:80:ARG:HH12	34:S4:23:ARG:HD2	1.65	0.61
21:i4:315:C:O5'	21:i4:315:C:H6	1.84	0.61
21:i4:1236:G:C5'	31:P4:133:ILE:CG1	2.77	0.61
21:i4:1694:U:H4'	21:i4:1833:C:O2'	2.00	0.61
3:V5:67:ASP:OD1	22:A5:36:GLN:NE2	2.34	0.61
15:O5:146:ARG:HE	21:i5:1857:G:H5''	1.65	0.61
21:i5:312:G:H5'	21:i5:313:A:H5'	1.82	0.61
21:i5:691:G:H3'	21:i5:692:G:C5'	2.30	0.61
14:N6:2:GLY:N	21:i6:923:G:OP1	2.33	0.61
36:k3:149:LYS:CE	36:k3:165:GLU:OE1	2.48	0.61
36:k6:140:GLN:HG2	36:k6:141:HIS:CE1	2.35	0.61
37:l3:164:ILE:CG2	37:l3:165:ILE:H	2.12	0.61
5:a1:101:PHE:HB3	5:a1:102:ARG:NH1	2.15	0.61
9:g1:158:PRO:HG2	9:g1:202:PRO:HB3	1.82	0.61
13:M1:91:LEU:HD11	21:i1:1284:A:H61	1.64	0.61
17:Y1:129:LYS:HA	17:Y1:132:LYS:HD2	1.83	0.61
21:i1:377:G:N2	21:i1:387:C:O2	2.33	0.61
21:i1:1777:G:C5	21:i1:1778:C:N4	2.68	0.61
27:H1:66:VAL:HG22	27:H1:96:ALA:HB1	1.81	0.61
30:L1:125:ILE:O	30:L1:146:THR:O	2.19	0.61
5:a2:101:PHE:HB3	5:a2:102:ARG:NH1	2.15	0.61
8:f2:90:LYS:HE3	21:i2:1270:G:OP1	2.00	0.61
8:f2:95:ARG:CB	21:i2:1289:U:OP1	2.47	0.61
15:O2:103:ASN:ND2	15:O2:140:THR:O	2.33	0.61
20:e2:36:MET:HE3	21:i2:553:U:P	2.41	0.61
10:C3:65:LYS:HE3	10:C3:280:VAL:HB	1.82	0.61
21:i3:1378:A:OP2	22:A3:105:PRO:CG	2.43	0.61
33:R3:65:PRO:CB	33:R3:73:LEU:CD2	2.79	0.61
8:f4:92:LYS:NZ	21:i4:1272:C:OP2	2.32	0.61
17:Y4:126:GLY:O	17:Y4:130:LYS:NZ	2.27	0.61
21:i4:1521:C:H42	34:S4:137:LYS:HE3	1.65	0.61
22:A4:214:GLU:HG3	33:R4:84:TYR:CD1	2.34	0.61
6:c5:29:GLN:HG3	6:c5:45:ASN:HB3	1.82	0.61
8:f5:105:TYR:HE2	8:f5:106:TYR:OH	1.82	0.61
10:C5:267:GLN:HB2	22:A5:120:ARG:HH22	1.65	0.61
11:G5:143:LYS:HD3	21:i5:1778:C:H5''	0.64	0.61
11:G5:196:LYS:NZ	21:i5:126:G:O6	2.33	0.61
14:N5:71:ILE:HA	14:N5:74:ILE:HG22	1.82	0.61
21:i5:368:U:H3	36:k4:109:ALA:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1777:G:C5	21:i5:1778:C:N4	2.68	0.61
26:F5:28:VAL:HG23	26:F5:109:LEU:HD22	1.82	0.61
29:K5:60:GLU:HB3	29:K5:69:TRP:HA	1.82	0.61
2:U6:86:LYS:NZ	21:i6:1580:A:OP1	2.32	0.61
7:d6:32:ARG:NH1	21:i6:1660:C:OP2	2.34	0.61
27:H6:104:PRO:HA	27:H6:107:LYS:HD2	1.81	0.61
31:P6:15:PHE:O	31:P6:16:THR:OG1	2.18	0.61
34:S6:68:ILE:HG23	34:S6:72:GLN:HE21	1.66	0.61
36:k3:39:TRP:CD1	36:k3:90:PHE:CZ	2.89	0.61
37:l4:152:PHE:CD1	37:l4:173:ASP:OD1	2.54	0.61
37:l6:152:PHE:CD1	37:l6:173:ASP:OD1	2.54	0.61
8:f1:105:TYR:CZ	8:f1:131:PHE:HB3	2.28	0.61
10:C1:188:CYS:SG	10:C1:189:GLY:N	2.69	0.61
11:G1:218:LYS:O	11:G1:221:LYS:NZ	2.27	0.61
21:i1:211:G:P	18:Z6:41:ARG:HH12	2.19	0.61
21:i1:1750:C:N4	21:i1:1781:A:N1	2.49	0.61
10:C2:267:GLN:HB2	22:A2:120:ARG:HH22	1.66	0.61
21:i2:331:C:C2'	21:i2:332:G:C8	2.84	0.61
21:i2:732:U:C1'	21:i2:733:C:P	2.87	0.61
21:i2:1521:C:H42	34:S2:137:LYS:HE3	1.65	0.61
21:i2:1763:G:H5'	34:S5:109:GLU:OE2	2.00	0.61
3:V3:67:ASP:OD1	22:A3:36:GLN:NE2	2.34	0.61
21:i3:1270:G:H1	21:i3:1513:C:H42	1.49	0.61
34:S3:68:ILE:HG23	34:S3:72:GLN:HE21	1.66	0.61
11:G4:141:ILE:O	11:G4:144:LEU:CG	2.47	0.61
14:N4:133:ARG:HH21	30:L4:154:GLN:CG	2.13	0.61
14:N4:133:ARG:CG	30:L4:152:LYS:HG3	2.31	0.61
17:Y4:129:LYS:HA	17:Y4:132:LYS:HD2	1.82	0.61
18:Z4:75:GLU:CG	21:i5:193:C:H5'	2.30	0.61
21:i4:1270:G:H1	21:i4:1513:C:H42	1.49	0.61
10:C5:123:ARG:NH2	10:C5:143:CYS:SG	2.73	0.61
21:i5:1033:G:N1	21:i5:1080:A:O2'	2.32	0.61
1:T6:124:THR:HG23	1:T6:127:GLY:H	1.66	0.61
6:c6:29:GLN:HG3	6:c6:45:ASN:HB3	1.82	0.61
11:G6:141:ILE:HG12	11:G6:144:LEU:CD2	1.94	0.61
13:M6:14:VAL:CG1	13:M6:127:TYR:CD1	2.74	0.61
13:M6:36:ARG:HH22	21:i6:1310:U:H5	1.32	0.61
21:i6:735:C:H4'	21:i6:736:C:OP2	2.00	0.61
21:i6:1621:U:H4'	31:P6:115:TYR:CE1	2.35	0.61
30:L6:71:ARG:HB2	30:L6:130:GLU:HB2	1.83	0.61
37:l6:164:ILE:CG2	37:l6:165:ILE:N	2.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V1:67:ASP:OD1	22:A1:36:GLN:NE2	2.34	0.61
10:C1:65:LYS:HE3	10:C1:280:VAL:HB	1.82	0.61
18:Z1:49:LEU:H	18:Z1:83:LEU:CD1	2.13	0.61
21:i1:969:U:OP1	21:i1:971:G:H5'	1.98	0.61
23:B1:23:ASP:OD1	23:B1:24:PRO:CD	2.42	0.61
28:I1:160:SER:OG	21:i6:956:G:H8	1.83	0.61
4:X2:91:LEU:HD21	20:e2:6:LEU:HB2	1.83	0.61
7:d2:32:ARG:NH1	21:i2:1660:C:OP2	2.34	0.61
10:C2:65:LYS:CB	10:C2:279:ARG:CB	2.72	0.61
21:i2:1777:G:C5	21:i2:1778:C:N4	2.68	0.61
29:K2:52:LEU:HA	29:K2:55:ARG:HG2	1.83	0.61
9:g3:78:ALA:H	9:g3:89:LEU:HD12	1.66	0.61
11:G3:196:LYS:NZ	21:i3:126:G:O6	2.33	0.61
21:i3:814:U:OP1	25:E3:22:LYS:NZ	2.29	0.61
25:E3:180:LEU:HA	25:E3:194:VAL:HA	1.83	0.61
4:X4:59:ALA:HB2	4:X4:67:ARG:HG2	1.83	0.61
11:G4:144:LEU:O	11:G4:145:PHE:HB2	2.00	0.61
11:G4:196:LYS:NZ	21:i4:126:G:O6	2.33	0.61
16:W4:40:VAL:O	16:W4:44:HIS:ND1	2.30	0.61
18:Z4:111:ARG:O	18:Z4:113:THR:HG23	2.00	0.61
21:i4:696:G:N1	21:i4:734:C:H5''	2.16	0.61
21:i4:1755:C:O2	21:i4:1777:G:N2	2.33	0.61
13:M5:27:ILE:CG2	29:K5:84:HIS:NE2	2.63	0.61
18:Z5:82:SER:HB3	21:i5:1598:G:C3'	2.31	0.61
21:i5:455:A:O4'	21:i5:1736:G:H4'	2.00	0.61
21:i5:511:U:O2'	21:i5:576:A:N1	2.34	0.61
21:i5:628:A:H62	24:D5:145:GLN:CG	2.12	0.61
21:i5:795:A:H2'	21:i5:796:G:C8	2.34	0.61
21:i5:1174:U:OP1	35:j5:21:ARG:CD	2.45	0.61
21:i5:1621:U:O4	31:P5:82:ASP:CG	2.41	0.61
8:f6:90:LYS:HE3	21:i6:1270:G:OP1	2.00	0.61
8:f6:99:LYS:CB	21:i6:1285:G:H21	1.65	0.61
11:G6:144:LEU:O	11:G6:145:PHE:HB2	1.99	0.61
13:M6:27:ILE:CG2	29:K6:84:HIS:NE2	2.63	0.61
21:i6:795:A:H2'	21:i6:796:G:C8	2.34	0.61
26:F6:28:VAL:HG23	26:F6:109:LEU:HD22	1.82	0.61
29:K6:60:GLU:HB3	29:K6:69:TRP:HA	1.82	0.61
36:k2:94:HIS:CB	36:k2:135:MET:CG	2.78	0.61
36:k5:82:LEU:CD2	36:k5:145:VAL:HG23	2.30	0.61
37:l2:157:SER:O	37:l2:164:ILE:HG23	2.01	0.61
37:l5:157:SER:O	37:l5:164:ILE:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:c1:29:GLN:HG3	6:c1:45:ASN:HB3	1.82	0.61
2:U2:67:LYS:HB2	2:U2:78:ASP:HB2	1.83	0.61
4:X2:67:ARG:NH1	4:X2:114:ASP:OD2	2.31	0.61
9:g2:158:PRO:HG2	9:g2:202:PRO:HB3	1.82	0.61
10:C2:277:HIS:NE2	10:C2:279:ARG:HD3	2.16	0.61
11:G2:68:LEU:HG	11:G2:69:THR:HG23	1.81	0.61
11:G2:225:GLN:HA	11:G2:228:ILE:HG22	1.83	0.61
20:e2:31:ARG:CZ	21:i2:525:A:O3'	2.46	0.61
21:i2:600:G:H5'	21:i2:630:U:H2'	1.83	0.61
21:i2:795:A:H2'	21:i2:796:G:C8	2.34	0.61
21:i2:1374:C:O2'	21:i2:1464:C:O2	2.19	0.61
21:i2:1853:C:C4	35:j2:5:TRP:CZ2	2.89	0.61
23:B2:134:LEU:HG	23:B2:218:LEU:HD12	1.82	0.61
28:I2:67:TRP:CD1	28:I2:70:GLU:H	2.18	0.61
8:f3:80:ARG:NH2	21:i3:1503:C:C2'	2.64	0.61
10:C3:65:LYS:HG2	10:C3:279:ARG:CZ	2.29	0.61
11:G3:143:LYS:CD	21:i3:1778:C:OP1	2.46	0.61
16:W3:30:CYS:HA	16:W3:34:ILE:HD11	1.83	0.61
18:Z3:82:SER:HB3	21:i3:1598:G:C3'	2.31	0.61
21:i3:795:A:H2'	21:i3:796:G:C8	2.35	0.61
21:i3:1058:A:H2	37:l3:126:LYS:HE2	1.66	0.61
31:P3:119:PHE:HA	34:S3:120:HIS:HB2	1.83	0.61
32:Q3:4:LYS:HD3	32:Q3:8:GLN:HE21	1.66	0.61
9:g4:158:PRO:HG2	9:g4:202:PRO:HB3	1.82	0.61
12:J4:169:ARG:HD2	12:J4:170:PRO:HD2	1.82	0.61
14:N4:71:ILE:HA	14:N4:74:ILE:HG22	1.82	0.61
15:O4:46:ASP:O	15:O4:48:SER:N	2.32	0.61
29:K4:52:LEU:HA	29:K4:55:ARG:HG2	1.83	0.61
14:N5:4:MET:HE3	14:N5:124:ARG:HD3	1.82	0.61
16:W5:40:VAL:O	16:W5:44:HIS:ND1	2.30	0.61
16:W5:72:CYS:SG	16:W5:73:GLY:N	2.72	0.61
17:Y5:129:LYS:HA	17:Y5:132:LYS:HD2	1.83	0.61
21:i5:1174:U:P	35:j5:21:ARG:HH21	2.23	0.61
21:i5:1377:U:OP2	22:A5:102:ARG:HG3	2.01	0.61
21:i5:1621:U:H4'	31:P5:115:TYR:CE1	2.35	0.61
5:a6:101:PHE:HB3	5:a6:102:ARG:NH1	2.14	0.61
11:G6:196:LYS:NZ	21:i6:126:G:O6	2.33	0.61
14:N6:29:THR:O	14:N6:32:ASP:N	2.33	0.61
17:Y6:129:LYS:HA	17:Y6:132:LYS:HD2	1.83	0.61
31:P6:122:THR:HG23	31:P6:122:THR:O	2.01	0.61
36:k1:7:GLU:HB3	36:k1:177:MET:HG3	0.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k5:83:ARG:NH2	36:k5:175:TRP:CG	2.68	0.61
37:l2:142:LYS:CE	37:l2:146:ARG:HH11	2.13	0.61
7:d1:21:CYS:SG	7:d1:25:SER:N	2.74	0.60
8:f1:90:LYS:HE3	21:i1:1270:G:OP1	2.00	0.60
17:Y1:126:GLY:O	17:Y1:130:LYS:NZ	2.27	0.60
18:Z1:82:SER:HB3	21:i1:1598:G:C3'	2.31	0.60
21:i1:312:G:H5'	21:i1:313:A:H5'	1.82	0.60
21:i1:1842:C:C3'	35:j1:4:LYS:HZ3	2.14	0.60
21:i1:1849:G:H1'	21:i1:1850:A:H5'	1.82	0.60
28:I1:67:TRP:CD1	28:I1:70:GLU:H	2.18	0.60
1:T2:124:THR:HG23	1:T2:127:GLY:H	1.65	0.60
3:V2:67:ASP:OD1	22:A2:36:GLN:NE2	2.34	0.60
5:a2:100:ARG:HH11	5:a2:100:ARG:CG	2.14	0.60
7:d2:21:CYS:SG	7:d2:25:SER:N	2.74	0.60
11:G2:137:ARG:HB2	11:G2:140:ARG:HB2	1.83	0.60
12:J2:148:ILE:O	21:i2:821:G:N2	2.34	0.60
20:e2:43:VAL:CG1	21:i2:551:U:H1'	2.31	0.60
21:i2:1184:G:P	35:j2:11:ARG:HH21	2.23	0.60
21:i2:1270:G:H1	21:i2:1513:C:H42	1.49	0.60
21:i2:1751:C:H5	21:i2:1781:A:C2	2.19	0.60
26:F2:193:LYS:O	26:F2:197:GLU:N	2.34	0.60
32:Q2:4:LYS:HD3	32:Q2:8:GLN:HE21	1.66	0.60
21:i3:317:C:O2	21:i3:334:C:O2	2.19	0.60
21:i3:596:U:HO2'	21:i3:645:C:HO2'	1.48	0.60
21:i3:600:G:H5'	21:i3:630:U:H2'	1.84	0.60
21:i3:695:C:OP1	21:i3:695:C:H4'	1.99	0.60
21:i3:1522:A:H61	31:P3:131:PRO:HB3	1.63	0.60
26:F3:100:ILE:HG12	26:F3:178:ILE:HD11	1.81	0.60
30:L3:71:ARG:HB2	30:L3:130:GLU:HB2	1.83	0.60
13:M4:27:ILE:HG22	29:K4:84:HIS:CE1	2.31	0.60
21:i4:947:G:H1	21:i4:979:C:H42	1.49	0.60
21:i4:1520:G:OP1	34:S4:135:HIS:HB3	2.00	0.60
7:d5:32:ARG:NH1	21:i5:1660:C:OP2	2.34	0.60
21:i5:172:U:C2	21:i5:336:A:O2'	2.54	0.60
21:i5:1270:G:H1	21:i5:1513:C:H42	1.49	0.60
30:L5:152:LYS:CE	30:L5:154:GLN:HE21	2.14	0.60
4:X6:59:ALA:HB2	4:X6:67:ARG:HG2	1.83	0.60
8:f6:80:ARG:CD	21:i6:1509:U:O4	2.49	0.60
9:g6:78:ALA:H	9:g6:89:LEU:HD12	1.66	0.60
9:g6:220:ASP:O	9:g6:224:GLY:N	2.32	0.60
11:G6:137:ARG:HB2	11:G6:140:ARG:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W6:30:CYS:HA	16:W6:34:ILE:HD11	1.83	0.60
18:Z6:50:PHE:O	34:S6:5:ILE:HG22	1.92	0.60
18:Z6:111:ARG:O	18:Z6:113:THR:HG23	2.00	0.60
21:i6:1377:U:P	22:A6:102:ARG:HE	2.23	0.60
21:i6:1755:C:O2	21:i6:1777:G:N2	2.33	0.60
36:k5:66:GLY:O	36:k5:179:THR:HA	2.00	0.60
37:l1:152:PHE:CD1	37:l1:173:ASP:OD1	2.54	0.60
37:l5:180:GLU:HA	37:l5:181:LYS:CB	2.26	0.60
2:U1:67:LYS:HB2	2:U1:78:ASP:HB2	1.83	0.60
12:J1:148:ILE:O	21:i1:821:G:N2	2.34	0.60
14:N1:71:ILE:HA	14:N1:74:ILE:HG22	1.82	0.60
21:i1:331:C:C2'	21:i1:332:G:C8	2.85	0.60
21:i1:379:C:O2	28:I1:5:ARG:NH1	2.34	0.60
25:E1:164:LEU:CD1	25:E1:165:GLU:H	2.15	0.60
26:F1:30:ILE:HG12	26:F1:113:VAL:HG11	1.83	0.60
31:P1:15:PHE:O	31:P1:16:THR:OG1	2.18	0.60
10:C2:65:LYS:HE3	10:C2:280:VAL:HB	1.82	0.60
11:G2:149:LYS:O	11:G2:150:GLU:HB2	2.01	0.60
21:i2:1120:U:N3	21:i2:1121:G:N7	2.49	0.60
21:i2:1521:C:C4	34:S2:137:LYS:HG3	2.36	0.60
26:F2:30:ILE:HG12	26:F2:113:VAL:HG11	1.83	0.60
21:i3:1120:U:N3	21:i3:1121:G:N7	2.49	0.60
21:i3:1643:U:O2'	21:i3:1644:C:O5'	2.20	0.60
21:i3:1777:G:C5	21:i3:1778:C:N4	2.69	0.60
26:F3:30:ILE:HG12	26:F3:113:VAL:HG11	1.84	0.60
32:Q3:6:PRO:O	32:Q3:7:LEU:HB2	2.00	0.60
3:V4:67:ASP:OD1	22:A4:36:GLN:NE2	2.34	0.60
7:d4:21:CYS:SG	7:d4:25:SER:N	2.74	0.60
11:G4:149:LYS:O	11:G4:150:GLU:HB2	2.01	0.60
13:M5:36:ARG:NE	21:i5:1310:U:C6	2.69	0.60
21:i5:558:G:P	21:i5:558:G:H8	2.25	0.60
21:i5:836:G:H8	21:i5:837:A:H4'	1.66	0.60
21:i5:1172:U:C4'	35:j5:10:MET:HE2	2.27	0.60
23:B5:34:LYS:NZ	23:B5:95:ASN:OD1	2.29	0.60
18:Z6:80:ARG:HH12	34:S6:23:ARG:HD2	1.65	0.60
21:i6:316:G:N3	21:i6:335:G:N1	2.43	0.60
21:i6:600:G:H5'	21:i6:630:U:H2'	1.83	0.60
21:i6:614:C:O2'	21:i6:626:G:N2	2.35	0.60
36:k1:140:GLN:HG2	36:k1:141:HIS:CE1	2.35	0.60
36:k2:96:GLN:OE1	36:k2:122:LYS:HD3	2.01	0.60
36:k2:140:GLN:HG2	36:k2:141:HIS:CE1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k3:140:GLN:HG2	36:k3:141:HIS:CE1	2.35	0.60
36:k6:95:GLN:N	36:k6:133:ALA:O	2.34	0.60
8:f1:80:ARG:CZ	21:i1:1509:U:C4	2.85	0.60
11:G1:196:LYS:NZ	21:i1:126:G:O6	2.33	0.60
12:J1:77:LEU:HB3	12:J1:80:ARG:HH21	1.67	0.60
19:b1:37:CYS:SG	19:b1:63:LEU:HD21	2.40	0.60
21:i1:1210:G:N2	21:i1:1690:U:O2	2.34	0.60
21:i1:1270:G:H1	21:i1:1513:C:H42	1.49	0.60
23:B1:128:LYS:HD3	23:B1:134:LEU:HD13	1.81	0.60
23:B1:134:LEU:HG	23:B1:218:LEU:HD12	1.82	0.60
24:D1:64:ARG:CD	29:K1:95:ARG:HH22	2.14	0.60
25:E1:180:LEU:HA	25:E1:194:VAL:HA	1.82	0.60
33:R1:58:MET:HA	33:R1:61:ILE:HG12	1.82	0.60
13:M2:27:ILE:CG2	29:K2:84:HIS:NE2	2.64	0.60
14:N2:130:LYS:NZ	14:N2:137:PRO:O	2.34	0.60
15:O2:146:ARG:HE	21:i2:1857:G:H5''	1.65	0.60
16:W2:30:CYS:HA	16:W2:34:ILE:HD11	1.83	0.60
20:e2:2:VAL:HG23	20:e2:2:VAL:O	2.01	0.60
21:i2:312:G:H5'	21:i2:313:A:H5'	1.82	0.60
24:D2:64:ARG:CD	29:K2:95:ARG:HH22	2.14	0.60
30:L2:30:LYS:HA	23:B5:21:VAL:N	2.15	0.60
31:P2:119:PHE:HA	34:S2:120:HIS:HB2	1.83	0.60
2:U3:86:LYS:NZ	21:i3:1580:A:OP1	2.32	0.60
4:X3:55:VAL:HG11	20:e3:2:VAL:HG13	1.82	0.60
15:O3:147:ARG:HD2	15:O3:150:ARG:HE	1.67	0.60
21:i3:1756:C:N4	21:i3:1776:G:H1	1.99	0.60
32:Q3:4:LYS:HZ2	32:Q3:99:TYR:CB	2.14	0.60
8:f4:93:HIS:HB3	21:i4:1304:U:C5'	2.18	0.60
8:f4:99:LYS:CB	21:i4:1285:G:H21	1.65	0.60
15:O4:146:ARG:HE	21:i4:1857:G:H5''	1.65	0.60
21:i4:1521:C:C5	34:S4:137:LYS:HB2	2.36	0.60
11:G5:137:ARG:HB2	11:G5:140:ARG:HB2	1.83	0.60
13:M5:40:LYS:HZ1	21:i5:1310:U:C5'	1.87	0.60
28:I5:101:ILE:HD12	28:I5:190:LEU:HD11	1.83	0.60
30:L5:71:ARG:HB2	30:L5:130:GLU:HB2	1.83	0.60
34:S5:22:GLY:HA2	34:S5:56:ALA:HB3	1.83	0.60
10:C6:65:LYS:HE3	10:C6:280:VAL:HB	1.82	0.60
21:i6:797:C:O2	27:H6:109:ARG:NH2	2.35	0.60
21:i6:1182:A:P	35:j6:18:ARG:HH12	2.24	0.60
21:i6:1521:C:C4	34:S6:137:LYS:HG3	2.36	0.60
22:A6:4:ALA:N	22:A6:5:LEU:HA	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q6:4:LYS:HD3	32:Q6:8:GLN:HE21	1.66	0.60
36:k2:39:TRP:CD1	36:k2:90:PHE:HZ	2.18	0.60
36:k5:96:GLN:OE1	36:k5:122:LYS:HD3	2.01	0.60
37:l1:150:GLN:O	37:l1:151:LYS:CD	2.50	0.60
4:X1:134:TYR:OH	20:e1:13:ARG:NH1	2.35	0.60
11:G1:183:ARG:NH1	21:i1:317:C:P	2.74	0.60
18:Z1:46:ASN:HB3	18:Z1:80:ARG:CA	2.16	0.60
21:i1:13:C:H1'	21:i1:1356:G:N2	2.16	0.60
21:i1:600:G:H5'	21:i1:630:U:H2'	1.83	0.60
21:i1:735:C:H4'	21:i1:736:C:OP2	2.00	0.60
21:i1:1643:U:O2'	21:i1:1644:C:O5'	2.19	0.60
10:C2:125:LYS:CE	21:i2:1357:A:OP1	2.49	0.60
11:G2:196:LYS:NZ	21:i2:126:G:O6	2.33	0.60
21:i2:836:G:H8	21:i2:837:A:H4'	1.67	0.60
30:L2:71:ARG:HB2	30:L2:130:GLU:HB2	1.83	0.60
1:T3:124:THR:HG23	1:T3:127:GLY:H	1.66	0.60
11:G3:137:ARG:HB2	11:G3:140:ARG:HB2	1.83	0.60
21:i3:558:G:H8	21:i3:558:G:O5'	1.84	0.60
21:i3:836:G:H8	21:i3:837:A:H4'	1.67	0.60
10:C4:277:HIS:NE2	10:C4:279:ARG:HD3	2.16	0.60
11:G4:74:ARG:HG2	11:G4:96:SER:HA	1.84	0.60
16:W4:30:CYS:HA	16:W4:34:ILE:HD11	1.83	0.60
21:i4:379:C:O2	28:I4:5:ARG:NH1	2.34	0.60
21:i4:744:G:N2	21:i4:795:A:N1	2.49	0.60
21:i4:1643:U:O2'	21:i4:1644:C:O5'	2.19	0.60
26:F4:28:VAL:HG23	26:F4:109:LEU:HD22	1.83	0.60
27:H4:66:VAL:HG22	27:H4:96:ALA:HB1	1.81	0.60
28:I4:206:LYS:C	36:k2:12:SER:OG	2.43	0.60
31:P5:41:GLN:OE1	31:P5:84:ILE:CG1	2.49	0.60
32:Q5:6:PRO:O	32:Q5:7:LEU:HB2	2.00	0.60
34:S5:68:ILE:HG23	34:S5:72:GLN:HE21	1.66	0.60
9:g6:44:LYS:N	9:g6:55:PRO:O	2.32	0.60
9:g6:158:PRO:HG2	9:g6:202:PRO:HB3	1.82	0.60
14:N6:130:LYS:NZ	14:N6:137:PRO:O	2.34	0.60
15:O6:147:ARG:HD2	15:O6:150:ARG:HE	1.67	0.60
21:i6:379:C:O2	28:I6:5:ARG:NH1	2.35	0.60
21:i6:511:U:O2'	21:i6:576:A:N1	2.34	0.60
28:I6:101:ILE:HD12	28:I6:190:LEU:HD11	1.82	0.60
36:k2:79:TYR:CE1	36:k2:131:ILE:HD13	2.36	0.60
36:k6:79:TYR:CD1	36:k6:131:ILE:HG12	2.36	0.60
37:I4:157:SER:O	37:I4:164:ILE:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l6:181:LYS:HD3	37:l6:181:LYS:N	2.15	0.60
8:f1:80:ARG:HH22	21:i1:1503:C:H1'	1.66	0.60
21:i1:1756:C:N4	21:i1:1776:G:H1	1.99	0.60
25:E1:11:ARG:NH1	25:E1:21:ASP:O	2.35	0.60
2:U2:86:LYS:NZ	21:i2:1580:A:OP1	2.32	0.60
5:a2:38:LYS:HB3	5:a2:71:LEU:HB2	1.84	0.60
10:C2:142:LYS:NZ	21:i2:1350:U:P	2.73	0.60
11:G2:171:THR:HG22	11:G2:172:LYS:H	1.66	0.60
12:J2:169:ARG:HD2	12:J2:170:PRO:HD2	1.82	0.60
21:i2:511:U:O2'	21:i2:576:A:N1	2.34	0.60
4:X3:67:ARG:NH1	4:X3:114:ASP:OD2	2.31	0.60
4:X3:132:ALA:HB1	4:X3:137:LYS:HD2	1.84	0.60
4:X3:134:TYR:OH	20:e3:13:ARG:NH1	2.35	0.60
5:a3:6:ARG:NE	21:i3:1134:G:OP1	2.32	0.60
10:C3:277:HIS:NE2	10:C3:279:ARG:HD3	2.16	0.60
11:G3:225:GLN:HA	11:G3:228:ILE:HG22	1.83	0.60
21:i3:1464:C:OP2	33:R3:60:ARG:NH1	2.35	0.60
23:B3:144:LYS:HD2	23:B3:208:HIS:HB3	1.84	0.60
29:K3:52:LEU:HA	29:K3:55:ARG:HG2	1.82	0.60
8:f4:90:LYS:HE3	21:i4:1270:G:OP1	2.00	0.60
11:G4:212:LEU:O	11:G4:216:ARG:N	2.28	0.60
12:J4:128:VAL:HG12	12:J4:132:GLN:HE22	1.67	0.60
14:N4:40:LEU:O	14:N4:43:LYS:HG2	2.02	0.60
19:b4:37:CYS:CB	19:b4:38:PRO:HD2	2.17	0.60
21:i4:334:C:OP1	21:i4:334:C:H4'	2.01	0.60
21:i4:526:A:C2	21:i4:560:A:H2	2.19	0.60
34:S4:68:ILE:HG23	34:S4:72:GLN:HE21	1.66	0.60
5:a5:100:ARG:HH11	5:a5:100:ARG:CG	2.14	0.60
8:f5:104:LYS:O	8:f5:104:LYS:HG3	2.01	0.60
12:J5:169:ARG:HD2	12:J5:170:PRO:HD2	1.82	0.60
21:i5:1068:G:H4'	36:k5:15:ILE:CG2	2.31	0.60
25:E5:164:LEU:CD1	25:E5:165:GLU:H	2.14	0.60
32:Q5:4:LYS:HD3	32:Q5:8:GLN:HE21	1.66	0.60
8:f6:104:LYS:O	8:f6:104:LYS:HG3	2.01	0.60
26:F6:30:ILE:HG12	26:F6:113:VAL:HG11	1.83	0.60
36:k3:96:GLN:OE1	36:k3:122:LYS:HD3	2.01	0.60
36:k4:33:PHE:CD1	36:k4:92:LEU:HG	2.36	0.60
7:d1:32:ARG:NH1	21:i1:1660:C:OP2	2.34	0.60
11:G1:225:GLN:HA	11:G1:228:ILE:HG22	1.83	0.60
12:J1:169:ARG:HD2	12:J1:170:PRO:HD2	1.82	0.60
13:M1:27:ILE:CG2	29:K1:84:HIS:NE2	2.63	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e1:51:LYS:O	20:e1:52:LYS:HB2	2.02	0.60
21:i1:1521:C:C5	34:S1:137:LYS:HB2	2.37	0.60
23:B1:144:LYS:HD2	23:B1:208:HIS:HB3	1.84	0.60
26:F1:193:LYS:O	26:F1:197:GLU:N	2.34	0.60
34:S1:68:ILE:HG23	34:S1:72:GLN:HE21	1.65	0.60
8:f2:105:TYR:CD2	8:f2:106:TYR:CZ	2.90	0.60
31:P2:41:GLN:CB	31:P2:84:ILE:CD1	2.50	0.60
34:S2:22:GLY:HA2	34:S2:56:ALA:HB3	1.83	0.60
34:S2:108:ARG:HH12	21:i4:1773:C:C2'	2.14	0.60
7:d3:21:CYS:SG	7:d3:25:SER:N	2.74	0.60
8:f3:83:LYS:O	8:f3:83:LYS:HG3	2.01	0.60
14:N3:4:MET:HE3	14:N3:124:ARG:HD3	1.83	0.60
14:N3:71:ILE:HA	14:N3:74:ILE:HG22	1.82	0.60
18:Z3:41:ARG:N	21:i6:210:U:H4'	2.16	0.60
21:i3:1069:U:P	36:k3:18:LYS:NZ	2.73	0.60
21:i3:1300:U:H2'	31:P3:51:ARG:HH22	1.66	0.60
29:K3:60:GLU:HB3	29:K3:69:TRP:HA	1.82	0.60
8:f4:104:LYS:O	8:f4:104:LYS:HG3	2.01	0.60
11:G4:137:ARG:HB2	11:G4:140:ARG:HB2	1.83	0.60
21:i4:1756:C:N4	21:i4:1776:G:H1	1.99	0.60
25:E4:180:LEU:HA	25:E4:194:VAL:HA	1.83	0.60
26:F4:30:ILE:HG12	26:F4:113:VAL:HG11	1.84	0.60
4:X5:134:TYR:OH	20:e5:13:ARG:NH1	2.35	0.60
9:g5:158:PRO:HG2	9:g5:202:PRO:HB3	1.82	0.60
12:J5:128:VAL:HG12	12:J5:132:GLN:HE22	1.67	0.60
21:i5:187:G:N2	21:i5:213:G:C6	2.69	0.60
21:i5:303:C:O4'	28:I5:64:ASN:ND2	2.35	0.60
21:i5:379:C:O2	28:I5:5:ARG:NH1	2.35	0.60
32:Q5:4:LYS:HZ2	32:Q5:99:TYR:CB	2.14	0.60
7:d6:21:CYS:SG	7:d6:25:SER:N	2.74	0.60
11:G6:225:GLN:HA	11:G6:228:ILE:HG22	1.83	0.60
18:Z6:82:SER:HB3	21:i6:1598:G:C3'	2.31	0.60
21:i6:303:C:O4'	28:I6:64:ASN:ND2	2.35	0.60
25:E6:180:LEU:HA	25:E6:194:VAL:HA	1.83	0.60
30:L6:121:GLN:CB	30:L6:153:LYS:CG	2.79	0.60
36:k2:22:ILE:HG12	36:k2:50:VAL:CG2	2.17	0.60
36:k6:39:TRP:CD1	36:k6:90:PHE:HE1	2.17	0.60
37:l1:157:SER:O	37:l1:164:ILE:HG23	2.01	0.60
37:l3:152:PHE:CD1	37:l3:173:ASP:OD1	2.54	0.60
37:l3:157:SER:O	37:l3:164:ILE:HG23	2.01	0.60
37:l4:120:ILE:CG2	37:l4:121:PRO:HD2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f1:105:TYR:CZ	8:f1:131:PHE:HD2	2.10	0.60
12:J1:77:LEU:HA	12:J1:80:ARG:HE	1.67	0.60
18:Z1:111:ARG:O	18:Z1:113:THR:HG23	2.01	0.60
21:i1:1172:U:C5'	35:j1:14:LYS:HZ3	2.15	0.60
24:D1:71:ALA:HB3	29:K1:20:VAL:HG11	1.84	0.60
32:Q1:6:PRO:O	32:Q1:7:LEU:HB2	2.00	0.60
33:R1:78:ARG:O	33:R1:82:ASP:HB2	2.02	0.60
4:X2:132:ALA:HB1	4:X2:137:LYS:HD2	1.84	0.60
4:X2:134:TYR:OH	20:e2:13:ARG:NH1	2.35	0.60
8:f2:105:TYR:CZ	8:f2:131:PHE:HD2	2.10	0.60
11:G2:186:GLN:NE2	21:i2:332:G:O6	2.34	0.60
12:J2:79:ARG:NH2	21:i2:819:G:OP1	2.35	0.60
14:N2:40:LEU:O	14:N2:43:LYS:HG2	2.02	0.60
15:O2:66:ARG:CZ	28:I4:125:LYS:CD	2.77	0.60
21:i2:1751:C:N3	21:i2:1784:G:C5	2.70	0.60
28:I2:101:ILE:HD12	28:I2:190:LEU:HD11	1.83	0.60
33:R2:74:GLN:C	33:R2:76:GLU:H	2.09	0.60
11:G3:141:ILE:CG1	11:G3:144:LEU:CG	2.78	0.60
17:Y3:129:LYS:HA	17:Y3:132:LYS:HD2	1.83	0.60
20:e3:25:LYS:HG3	21:i3:554:A:OP1	2.02	0.60
21:i3:312:G:H5'	21:i3:313:A:H5'	1.83	0.60
21:i3:334:C:OP1	21:i3:334:C:H4'	2.00	0.60
8:f4:96:LYS:HZ3	21:i4:1306:U:H3'	1.67	0.60
9:g4:220:ASP:O	9:g4:224:GLY:N	2.32	0.60
11:G4:225:GLN:HA	11:G4:228:ILE:HG22	1.83	0.60
13:M4:27:ILE:CG2	29:K4:84:HIS:NE2	2.63	0.60
20:e4:7:ALA:O	20:e4:8:ARG:HG3	2.02	0.60
21:i4:511:U:O2'	21:i4:576:A:N1	2.34	0.60
22:A4:110:ASN:OD1	22:A4:111:GLN:N	2.35	0.60
24:D4:71:ALA:HB3	29:K4:20:VAL:HG11	1.84	0.60
30:L4:71:ARG:HB2	30:L4:130:GLU:HB2	1.83	0.60
8:f5:90:LYS:HE3	21:i5:1270:G:OP1	2.00	0.60
12:J5:148:ILE:O	21:i5:821:G:N2	2.34	0.60
21:i5:1849:G:H1'	21:i5:1850:A:H5'	1.83	0.60
31:P5:122:THR:HG23	31:P5:122:THR:O	2.01	0.60
10:C6:121:ARG:CZ	21:i6:1347:U:OP1	2.48	0.60
10:C6:272:HIS:C	10:C6:274:VAL:H	2.10	0.60
12:J6:77:LEU:HB3	12:J6:80:ARG:HH21	1.67	0.60
21:i6:1374:C:O2'	21:i6:1464:C:O2	2.19	0.60
21:i6:1849:G:H1'	21:i6:1850:A:H5'	1.82	0.60
36:k1:96:GLN:OE1	36:k1:122:LYS:HD3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k3:39:TRP:CD1	36:k3:90:PHE:HZ	2.19	0.60
36:k5:68:LEU:CD1	36:k5:174:LEU:HD11	2.29	0.60
36:k5:122:LYS:CE	36:k5:124:TYR:OH	2.41	0.60
36:k6:22:ILE:HG12	36:k6:50:VAL:CG2	2.18	0.60
37:l1:181:LYS:HD3	37:l1:181:LYS:N	2.15	0.60
37:l2:120:ILE:CG2	37:l2:121:PRO:HD2	2.32	0.60
37:l5:150:GLN:O	37:l5:151:LYS:CD	2.50	0.60
5:a1:38:LYS:HB3	5:a1:71:LEU:HB2	1.84	0.60
11:G1:171:THR:HG22	11:G1:172:LYS:H	1.66	0.60
21:i1:879:C:O2	21:i1:907:G:N2	2.35	0.60
21:i1:1521:C:H42	34:S1:137:LYS:HE3	1.65	0.60
21:i1:1521:C:C4	34:S1:137:LYS:HG3	2.37	0.60
21:i1:1766:C:OP1	31:P6:12:PHE:CZ	2.55	0.60
30:L1:71:ARG:HB2	30:L1:130:GLU:HB2	1.83	0.60
10:C2:130:ILE:O	10:C2:138:GLY:N	2.35	0.60
10:C2:273:LEU:HB3	10:C2:280:VAL:HG13	1.64	0.60
18:Z2:82:SER:HB3	21:i2:1598:G:C3'	2.31	0.60
21:i2:172:U:OP1	21:i2:315:C:O2'	2.19	0.60
21:i2:379:C:O2	28:I2:5:ARG:NH1	2.34	0.60
21:i2:1621:U:H4'	31:P2:115:TYR:CE1	2.35	0.60
25:E2:164:LEU:CD1	25:E2:165:GLU:H	2.14	0.60
8:f3:87:THR:CG2	8:f3:90:LYS:NZ	2.38	0.60
12:J3:79:ARG:NH2	21:i3:819:G:OP1	2.35	0.60
14:N3:40:LEU:O	14:N3:43:LYS:HG2	2.02	0.60
16:W3:15:ASN:ND2	16:W3:72:CYS:H	2.00	0.60
21:i3:797:C:O2	27:H3:109:ARG:NH2	2.35	0.60
21:i3:1377:U:H3'	22:A3:102:ARG:NH2	2.15	0.60
21:i3:1521:C:C4	34:S3:137:LYS:HG3	2.37	0.60
26:F3:193:LYS:O	26:F3:197:GLU:N	2.34	0.60
9:g4:44:LYS:N	9:g4:55:PRO:O	2.33	0.60
12:J4:79:ARG:NH2	21:i4:819:G:OP1	2.35	0.60
18:Z4:83:LEU:HD21	34:S4:55:ARG:HH21	1.65	0.60
21:i4:303:C:O4'	28:I4:64:ASN:ND2	2.35	0.60
21:i4:455:A:O2'	21:i4:1735:A:N3	2.32	0.60
21:i4:1621:U:H4'	31:P4:115:TYR:CE1	2.35	0.60
26:F4:193:LYS:O	26:F4:197:GLU:N	2.34	0.60
31:P4:124:LYS:CG	31:P4:125:PRO:HD2	2.31	0.60
1:T5:19:ALA:O	1:T5:23:LYS:N	2.33	0.60
9:g5:78:ALA:H	9:g5:89:LEU:HD12	1.66	0.60
11:G5:53:SER:HB2	21:i5:165:G:H4'	1.84	0.60
11:G5:171:THR:HG22	11:G5:172:LYS:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J5:77:LEU:HA	12:J5:80:ARG:HE	1.67	0.60
16:W5:15:ASN:ND2	16:W5:72:CYS:H	2.00	0.60
20:e5:50:GLY:O	20:e5:51:LYS:O	2.20	0.60
21:i5:879:C:O2	21:i5:907:G:N2	2.35	0.60
22:A5:110:ASN:OD1	22:A5:111:GLN:N	2.35	0.60
3:V6:67:ASP:OD1	22:A6:36:GLN:NE2	2.34	0.60
5:a6:100:ARG:HH11	5:a6:100:ARG:CG	2.14	0.60
11:G6:171:THR:HG22	11:G6:172:LYS:H	1.66	0.60
20:e6:36:MET:HE3	21:i6:553:U:OP1	2.02	0.60
21:i6:1351:G:C6	21:i6:1352:G:C5	2.88	0.60
21:i6:1521:C:C5	34:S6:137:LYS:HB2	2.37	0.60
30:L6:152:LYS:HD2	30:L6:152:LYS:N	2.14	0.60
36:k1:10:ASN:CG	36:k1:56:HIS:CE1	2.79	0.60
36:k4:39:TRP:CD1	36:k4:90:PHE:HZ	2.19	0.60
5:a1:6:ARG:NE	21:i1:1134:G:OP1	2.32	0.60
11:G1:143:LYS:HG2	21:i1:1776:G:O3'	1.90	0.60
21:i1:303:C:O4'	28:I1:64:ASN:ND2	2.34	0.60
21:i1:511:U:O2'	21:i1:576:A:N1	2.34	0.60
21:i1:867:G:H4'	30:L1:149:ALA:CB	2.10	0.60
22:A1:158:ASP:OD1	22:A1:159:ILE:N	2.35	0.60
26:F1:127:ARG:CB	26:F1:128:ILE:HA	2.24	0.60
31:P1:119:PHE:HA	34:S1:120:HIS:HB2	1.83	0.60
9:g2:78:ALA:H	9:g2:89:LEU:HD12	1.66	0.60
21:i2:303:C:O4'	28:I2:64:ASN:ND2	2.35	0.60
21:i2:1173:A:H5'	35:j2:17:ARG:NH2	2.16	0.60
31:P2:122:THR:O	31:P2:122:THR:HG23	2.01	0.60
34:S2:68:ILE:HG23	34:S2:72:GLN:HE21	1.66	0.60
2:U3:67:LYS:HB2	2:U3:78:ASP:HB2	1.83	0.60
5:a3:38:LYS:HB3	5:a3:71:LEU:HB2	1.84	0.60
7:d3:32:ARG:NH1	21:i3:1660:C:OP2	2.34	0.60
11:G3:85:ARG:O	11:G3:87:ARG:NH1	2.35	0.60
14:N3:132:LYS:CA	30:L3:152:LYS:NZ	2.60	0.60
14:N3:135:LEU:CB	14:N3:136:PRO:CD	2.80	0.60
15:O3:146:ARG:HE	21:i3:1857:G:H5''	1.65	0.60
21:i3:165:G:OP2	21:i3:165:G:N2	2.35	0.60
34:S3:22:GLY:HA2	34:S3:56:ALA:HB3	1.82	0.60
6:c4:29:GLN:HG3	6:c4:45:ASN:HB3	1.82	0.60
8:f4:105:TYR:CD2	8:f4:106:TYR:CZ	2.90	0.60
12:J4:77:LEU:HA	12:J4:80:ARG:HE	1.67	0.60
18:Z4:82:SER:HB3	21:i4:1598:G:C3'	2.31	0.60
21:i4:797:C:O2	27:H4:109:ARG:NH2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1829:G:OP1	37:l4:167:GLN:CD	2.45	0.60
31:P4:72:LYS:NZ	31:P4:106:GLU:OE2	2.32	0.60
32:Q4:4:LYS:HZ2	32:Q4:99:TYR:CB	2.14	0.60
1:T5:124:THR:HG23	1:T5:127:GLY:H	1.66	0.60
2:U5:20:ILE:N	2:U5:91:LEU:O	2.28	0.60
5:a5:38:LYS:HB3	5:a5:71:LEU:HB2	1.84	0.60
7:d5:21:CYS:SG	7:d5:25:SER:N	2.74	0.60
9:g5:5:MET:HA	9:g5:8:ARG:HH22	1.67	0.60
10:C5:130:ILE:O	10:C5:138:GLY:N	2.35	0.60
11:G5:74:ARG:HG2	11:G5:96:SER:HA	1.84	0.60
16:W5:30:CYS:HA	16:W5:34:ILE:HD11	1.83	0.60
20:e5:43:VAL:HG11	21:i5:551:U:C4'	2.31	0.60
21:i5:1756:C:N4	21:i5:1776:G:H1	1.99	0.60
22:A5:4:ALA:N	22:A5:5:LEU:HA	2.16	0.60
31:P5:119:PHE:HA	34:S5:120:HIS:HB2	1.83	0.60
21:i6:1351:G:C5	21:i6:1352:G:O6	2.54	0.60
35:j6:5:TRP:CE3	35:j6:5:TRP:HA	2.37	0.60
36:k2:7:GLU:CD	36:k2:177:MET:HG3	2.26	0.60
36:k2:86:HIS:CG	36:k2:141:HIS:CB	2.82	0.60
36:k5:93:PRO:O	36:k5:132:VAL:HA	2.02	0.60
37:l5:120:ILE:CG2	37:l5:121:PRO:HD2	2.32	0.60
5:a1:97:PRO:HB2	21:i1:1868:U:H3	1.67	0.60
11:G1:53:SER:HB2	21:i1:165:G:H4'	1.84	0.60
11:G1:74:ARG:HG2	11:G1:96:SER:HA	1.84	0.60
11:G1:149:LYS:O	11:G1:150:GLU:HB2	2.01	0.60
12:J1:79:ARG:NH2	21:i1:819:G:OP1	2.35	0.60
21:i1:384:U:O4	28:l1:5:ARG:NH2	2.35	0.60
21:i1:744:G:N2	21:i1:795:A:N1	2.50	0.60
21:i1:797:C:O2	27:H1:109:ARG:NH2	2.35	0.60
21:i1:1058:A:C2	37:l1:126:LYS:HE2	2.30	0.60
21:i1:1120:U:N3	21:i1:1121:G:N7	2.49	0.60
24:D1:11:PHE:O	24:D1:15:GLY:N	2.31	0.60
2:U2:67:LYS:HE3	21:i2:1337:C:H4'	1.84	0.60
3:V2:80:SER:HB2	22:A2:5:LEU:HD21	1.84	0.60
11:G2:85:ARG:O	11:G2:87:ARG:NH1	2.35	0.60
21:i2:1232:U:O2	21:i2:1527:C:N4	2.35	0.60
21:i2:1522:A:C8	31:P2:128:HIS:HB3	2.37	0.60
31:P2:41:GLN:OE1	31:P2:84:ILE:HD13	2.02	0.60
11:G3:171:THR:HG22	11:G3:172:LYS:H	1.66	0.60
12:J3:77:LEU:HA	12:J3:80:ARG:HE	1.67	0.60
12:J3:148:ILE:O	21:i3:821:G:N2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:303:C:O4'	28:I3:64:ASN:ND2	2.35	0.60
21:i3:316:G:N1	21:i3:335:G:C6	2.70	0.60
21:i3:1328:G:H1	21:i3:1501:C:H42	1.50	0.60
21:i3:1848:U:H5''	37:I3:146:ARG:HH12	1.67	0.60
25:E3:11:ARG:NH1	25:E3:21:ASP:O	2.35	0.60
25:E3:164:LEU:CD1	25:E3:165:GLU:H	2.15	0.60
31:P3:15:PHE:CE2	31:P3:17:TYR:CB	2.75	0.60
1:T4:19:ALA:O	1:T4:23:LYS:N	2.33	0.60
7:d4:32:ARG:NH1	21:i4:1660:C:OP2	2.34	0.60
10:C4:130:ILE:O	10:C4:138:GLY:N	2.35	0.60
15:O4:134:PRO:HB2	21:i4:944:A:H5''	1.84	0.60
21:i4:836:G:H8	21:i4:837:A:H4'	1.66	0.60
23:B4:65:ARG:H	23:B4:88:THR:HG22	1.66	0.60
24:D4:42:THR:OG1	24:D4:45:ARG:O	2.20	0.60
13:M5:72:HIS:O	13:M5:73:GLN:HG2	2.02	0.60
17:Y5:17:LEU:HD22	25:E5:69:PHE:HE1	1.67	0.60
20:e5:45:VAL:HG11	21:i5:535:G:C5'	2.32	0.60
21:i5:947:G:H1	21:i5:979:C:H42	1.49	0.60
21:i5:1521:C:C5	34:S5:137:LYS:HB2	2.37	0.60
23:B5:65:ARG:H	23:B5:88:THR:HG22	1.67	0.60
33:R5:78:ARG:O	33:R5:82:ASP:HB2	2.02	0.60
2:U6:67:LYS:HE3	21:i6:1337:C:H4'	1.84	0.60
21:i6:1120:U:N3	21:i6:1121:G:N7	2.49	0.60
23:B6:34:LYS:NZ	23:B6:95:ASN:OD1	2.29	0.60
24:D6:42:THR:OG1	24:D6:45:ARG:O	2.20	0.60
24:D6:64:ARG:NE	29:K6:95:ARG:CZ	2.57	0.60
36:k5:146:GLY:CA	36:k5:167:ILE:CG1	2.79	0.60
37:I2:150:GLN:O	37:I2:151:LYS:CD	2.50	0.60
1:T1:74:SER:O	21:i1:1587:G:N2	2.35	0.59
10:C1:130:ILE:O	10:C1:138:GLY:N	2.35	0.59
13:M1:27:ILE:HG22	29:K1:84:HIS:CE1	2.31	0.59
14:N1:40:LEU:O	14:N1:43:LYS:HG2	2.02	0.59
18:Z1:83:LEU:HD21	34:S1:55:ARG:HH21	1.65	0.59
21:i1:455:A:H4'	21:i1:1736:G:H5'	1.84	0.59
21:i1:881:G:O6	21:i1:905:C:N4	2.35	0.59
21:i1:1545:A:HO2'	21:i1:1546:G:H8	1.50	0.59
21:i1:1692:U:H2'	21:i1:1693:G:C8	2.37	0.59
31:P1:49:LEU:O	31:P1:50:ARG:CZ	2.49	0.59
1:T2:74:SER:O	21:i2:1587:G:N2	2.35	0.59
4:X2:55:VAL:HG22	20:e2:2:VAL:HA	1.67	0.59
12:J2:128:VAL:HG12	12:J2:132:GLN:HE22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:165:G:N2	21:i2:165:G:OP2	2.35	0.59
21:i2:318:A:C6	21:i2:333:G:C2	2.90	0.59
21:i2:879:C:O2	21:i2:907:G:N2	2.35	0.59
21:i2:1849:G:H1'	21:i2:1850:A:H5'	1.82	0.59
27:H2:157:HIS:NE2	27:H2:188:GLU:OE1	2.35	0.59
32:Q2:24:HIS:CE1	32:Q2:69:ARG:HB2	2.37	0.59
11:G3:149:LYS:O	11:G3:150:GLU:HB2	2.01	0.59
14:N3:130:LYS:HZ3	14:N3:140:LYS:HD2	1.65	0.59
15:O3:66:ARG:NH1	28:I6:125:LYS:HZ1	1.98	0.59
21:i3:1692:U:H2'	21:i3:1693:G:C8	2.37	0.59
31:P3:124:LYS:CG	31:P3:125:PRO:HD2	2.31	0.59
32:Q3:24:HIS:CE1	32:Q3:69:ARG:HB2	2.37	0.59
5:a4:97:PRO:HB2	21:i4:1868:U:H3	1.67	0.59
14:N4:149:LEU:HD13	14:N4:149:LEU:N	2.17	0.59
21:i4:1521:C:C4	34:S4:137:LYS:HG3	2.37	0.59
21:i4:1522:A:C8	31:P4:128:HIS:HB3	2.37	0.59
31:P4:121:ILE:CD1	31:P4:123:TYR:CD2	2.74	0.59
33:R4:78:ARG:O	33:R4:82:ASP:HB2	2.02	0.59
10:C5:65:LYS:HE3	10:C5:280:VAL:HB	1.82	0.59
21:i5:12:U:C1'	21:i5:1357:A:C1'	2.80	0.59
26:F5:193:LYS:O	26:F5:197:GLU:N	2.34	0.59
32:Q5:4:LYS:NZ	32:Q5:99:TYR:HD1	2.00	0.59
3:V6:80:SER:HB2	22:A6:5:LEU:HD21	1.84	0.59
5:a6:97:PRO:HB2	21:i6:1868:U:H3	1.67	0.59
13:M6:72:HIS:O	13:M6:73:GLN:HG2	2.02	0.59
14:N6:150:VAL:CG1	14:N6:151:ALA:H	2.14	0.59
15:O6:67:ASP:O	15:O6:69:SER:N	2.35	0.59
16:W6:17:ALA:HB1	16:W6:25:VAL:HG11	1.84	0.59
21:i6:11:A:C2	21:i6:1357:A:H1'	2.37	0.59
21:i6:314:U:O2	21:i6:337:C:O2	2.19	0.59
21:i6:361:U:O4'	21:i6:1175:G:N2	2.35	0.59
21:i6:696:G:N2	21:i6:735:C:OP2	2.35	0.59
21:i6:1232:U:O2	21:i6:1527:C:N4	2.35	0.59
21:i6:1351:G:C4	21:i6:1352:G:C5	2.89	0.59
23:B6:144:LYS:HD2	23:B6:208:HIS:HB3	1.84	0.59
25:E6:164:LEU:CD1	25:E6:165:GLU:H	2.15	0.59
31:P6:124:LYS:CG	31:P6:125:PRO:HD2	2.31	0.59
36:k2:170:LEU:HG	36:k2:175:TRP:CD2	2.37	0.59
36:k3:170:LEU:HG	36:k3:171:ASN:H	1.67	0.59
36:k4:170:LEU:CD1	36:k4:175:TRP:CZ2	2.85	0.59
37:l1:120:ILE:CG2	37:l1:121:PRO:HD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l3:148:PHE:CE2	37:l3:156:ALA:CB	2.85	0.59
37:l4:148:PHE:CE2	37:l4:156:ALA:CB	2.85	0.59
37:l6:120:ILE:CG2	37:l6:121:PRO:HD2	2.32	0.59
37:l6:157:SER:O	37:l6:164:ILE:HG23	2.01	0.59
8:f1:105:TYR:OH	8:f1:131:PHE:CG	2.48	0.59
9:g1:78:ALA:H	9:g1:89:LEU:HD12	1.66	0.59
12:J1:128:VAL:HG12	12:J1:132:GLN:HE22	1.67	0.59
15:O1:147:ARG:HD2	15:O1:150:ARG:HE	1.67	0.59
16:W1:30:CYS:HA	16:W1:34:ILE:HD11	1.83	0.59
21:i1:836:G:H8	21:i1:837:A:H4'	1.66	0.59
22:A1:110:ASN:OD1	22:A1:111:GLN:N	2.35	0.59
28:I1:123:ARG:HH12	21:i6:963:A:P	2.24	0.59
31:P1:124:LYS:CG	31:P1:125:PRO:HD2	2.31	0.59
10:C2:272:HIS:C	10:C2:274:VAL:H	2.10	0.59
13:M2:36:ARG:NE	21:i2:1310:U:C6	2.70	0.59
17:Y2:17:LEU:HD22	25:E2:69:PHE:HE1	1.67	0.59
17:Y2:129:LYS:HA	17:Y2:132:LYS:HD2	1.83	0.59
21:i2:1377:U:H5	22:A2:102:ARG:NH1	1.75	0.59
26:F2:127:ARG:HB3	26:F2:128:ILE:CB	2.32	0.59
8:f3:105:TYR:CD2	8:f3:106:TYR:CZ	2.90	0.59
15:O3:134:PRO:HB2	21:i3:944:A:H5''	1.85	0.59
22:A3:158:ASP:OD1	22:A3:159:ILE:N	2.35	0.59
32:Q3:4:LYS:NZ	32:Q3:99:TYR:HD1	2.00	0.59
21:i4:165:G:OP2	21:i4:165:G:N2	2.35	0.59
21:i4:1120:U:N3	21:i4:1121:G:N7	2.49	0.59
27:H4:157:HIS:NE2	27:H4:188:GLU:OE1	2.35	0.59
31:P4:122:THR:O	31:P4:122:THR:HG23	2.01	0.59
33:R4:42:PRO:HD2	33:R4:46:LEU:HD23	1.85	0.59
2:U5:67:LYS:HE3	21:i5:1337:C:H4'	1.84	0.59
4:X5:59:ALA:HB2	4:X5:67:ARG:HG2	1.83	0.59
10:C5:277:HIS:NE2	10:C5:279:ARG:HD3	2.16	0.59
11:G5:225:GLN:HA	11:G5:228:ILE:HG22	1.83	0.59
15:O5:147:ARG:HD2	15:O5:150:ARG:HE	1.67	0.59
20:e5:46:VAL:HG22	20:e5:46:VAL:O	2.01	0.59
21:i5:1172:U:H5'	35:j5:14:LYS:HD3	0.80	0.59
21:i5:1388:A:O2'	24:D5:205:PRO:O	2.16	0.59
21:i5:1692:U:H2'	21:i5:1693:G:C8	2.37	0.59
24:D5:42:THR:OG1	24:D5:45:ARG:O	2.20	0.59
4:X6:132:ALA:HB1	4:X6:137:LYS:HD2	1.84	0.59
24:D6:71:ALA:HB3	29:K6:20:VAL:HG11	1.84	0.59
34:S6:22:GLY:HA2	34:S6:56:ALA:HB3	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:7:GLU:HB2	36:k2:177:MET:HE3	1.84	0.59
36:k2:170:LEU:HD21	36:k2:171:ASN:OD1	2.01	0.59
36:k3:143:LEU:O	36:k3:169:TYR:HB2	2.00	0.59
36:k4:22:ILE:HG12	36:k4:50:VAL:CG2	2.18	0.59
36:k4:145:VAL:CB	36:k4:167:ILE:HG21	2.31	0.59
37:l3:150:GLN:O	37:l3:151:LYS:CD	2.50	0.59
8:f1:104:LYS:HG3	8:f1:104:LYS:O	2.01	0.59
11:G1:65:GLN:HE22	21:i1:1746:U:C1'	2.16	0.59
21:i1:1069:U:H4'	36:k1:16:GLN:CG	2.33	0.59
21:i1:1300:U:H2'	31:P1:51:ARG:HH22	1.67	0.59
22:A1:4:ALA:N	22:A1:5:LEU:HA	2.16	0.59
29:K1:60:GLU:HB3	29:K1:69:TRP:HA	1.82	0.59
34:S1:22:GLY:HA2	34:S1:56:ALA:HB3	1.83	0.59
8:f2:99:LYS:CB	21:i2:1285:G:N2	2.36	0.59
9:g2:34:ALA:HB1	9:g2:66:VAL:HG11	1.85	0.59
12:J2:77:LEU:HB3	12:J2:80:ARG:HH21	1.67	0.59
14:N2:71:ILE:HA	14:N2:74:ILE:HG22	1.82	0.59
15:O2:63:LYS:HZ3	28:I4:121:LEU:CD1	2.15	0.59
21:i2:331:C:H2'	21:i2:332:G:N7	2.15	0.59
21:i2:735:C:H4'	21:i2:736:C:OP2	2.01	0.59
23:B2:21:VAL:O	30:L4:30:LYS:CA	2.48	0.59
32:Q2:6:PRO:O	32:Q2:7:LEU:HB2	2.00	0.59
5:a3:100:ARG:HH11	5:a3:100:ARG:CG	2.14	0.59
8:f3:104:LYS:O	8:f3:104:LYS:HG3	2.01	0.59
11:G3:141:ILE:O	11:G3:144:LEU:CG	2.48	0.59
21:i3:1522:A:C8	31:P3:128:HIS:HB3	2.37	0.59
21:i3:1621:U:H4'	31:P3:115:TYR:CE1	2.36	0.59
7:d4:22:ARG:HG2	7:d4:38:MET:SD	2.42	0.59
13:M4:72:HIS:O	13:M4:73:GLN:HG2	2.02	0.59
15:O4:147:ARG:HD2	15:O4:150:ARG:HE	1.67	0.59
21:i4:879:C:O2	21:i4:907:G:N2	2.35	0.59
21:i4:1692:U:H2'	21:i4:1693:G:C8	2.37	0.59
31:P4:119:PHE:HE1	34:S4:119:ALA:HB1	1.46	0.59
11:G5:141:ILE:O	11:G5:144:LEU:CG	2.48	0.59
11:G5:144:LEU:O	11:G5:145:PHE:HB2	1.99	0.59
11:G5:149:LYS:O	11:G5:150:GLU:HB2	2.01	0.59
14:N5:40:LEU:O	14:N5:43:LYS:HG2	2.02	0.59
21:i5:384:U:O4	28:I5:5:ARG:NH2	2.35	0.59
21:i5:1521:C:C4	34:S5:137:LYS:HG3	2.36	0.59
31:P5:124:LYS:CG	31:P5:125:PRO:HD2	2.31	0.59
4:X6:134:TYR:OH	20:e6:13:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G6:85:ARG:O	11:G6:87:ARG:NH1	2.35	0.59
12:J6:79:ARG:NH2	21:i6:819:G:OP1	2.35	0.59
21:i6:211:G:C5	21:i6:212:C:C4	2.90	0.59
21:i6:1069:U:H5'	36:k6:16:GLN:HB3	1.83	0.59
21:i6:1270:G:H1	21:i6:1513:C:H42	1.49	0.59
22:A6:110:ASN:OD1	22:A6:111:GLN:N	2.35	0.59
23:B6:208:HIS:CE1	23:B6:209:ASP:HB2	2.38	0.59
26:F6:137:GLN:HG3	26:F6:204:ARG:N	2.14	0.59
26:F6:193:LYS:O	26:F6:197:GLU:N	2.34	0.59
33:R6:75:GLU:HA	33:R6:75:GLU:OE1	2.01	0.59
36:k1:170:LEU:HG	36:k1:171:ASN:H	1.67	0.59
36:k3:96:GLN:HE22	36:k3:122:LYS:CD	2.16	0.59
36:k5:96:GLN:HE22	36:k5:122:LYS:CD	2.16	0.59
8:f1:105:TYR:CD2	8:f1:106:TYR:CZ	2.90	0.59
13:M1:72:HIS:O	13:M1:73:GLN:HG2	2.02	0.59
14:N1:4:MET:HE3	14:N1:124:ARG:HD3	1.83	0.59
16:W1:72:CYS:SG	16:W1:73:GLY:N	2.73	0.59
17:Y1:17:LEU:HD22	25:E1:69:PHE:HE1	1.67	0.59
21:i1:194:C:H42	21:i1:205:G:H1	1.51	0.59
25:E1:185:GLY:H	25:E1:189:LEU:HB3	1.67	0.59
26:F1:127:ARG:HB3	26:F1:128:ILE:CB	2.32	0.59
26:F1:136:ARG:C	26:F1:203:ASN:HD22	2.11	0.59
30:L1:125:ILE:HG22	30:L1:146:THR:OG1	2.01	0.59
33:R1:42:PRO:HD2	33:R1:46:LEU:HD23	1.84	0.59
10:C2:238:LYS:NZ	21:i2:1356:G:OP1	2.36	0.59
11:G2:141:ILE:O	11:G2:144:LEU:CG	2.48	0.59
16:W2:15:ASN:ND2	16:W2:72:CYS:H	2.00	0.59
16:W2:15:ASN:HD21	16:W2:72:CYS:H	1.50	0.59
18:Z2:83:LEU:HD21	34:S2:55:ARG:HH21	1.65	0.59
21:i2:1521:C:C5	34:S2:137:LYS:HB2	2.37	0.59
21:i2:1694:U:O2'	21:i2:1833:C:O2'	2.07	0.59
26:F2:136:ARG:C	26:F2:203:ASN:HD22	2.11	0.59
31:P2:124:LYS:CG	31:P2:125:PRO:HD2	2.31	0.59
32:Q2:4:LYS:NZ	32:Q2:99:TYR:HD1	2.01	0.59
2:U3:18:HIS:HB3	2:U3:118:ASP:H	1.68	0.59
2:U3:22:ILE:N	2:U3:89:ILE:O	2.32	0.59
5:a3:97:PRO:HB2	21:i3:1868:U:H3	1.67	0.59
6:c3:13:ARG:HD3	6:c3:35:MET:HB2	1.84	0.59
9:g3:5:MET:HA	9:g3:8:ARG:HH22	1.67	0.59
10:C3:130:ILE:O	10:C3:138:GLY:N	2.35	0.59
21:i3:379:C:O2	28:I3:5:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:879:C:O2	21:i3:907:G:N2	2.35	0.59
21:i3:947:G:H1	21:i3:979:C:H42	1.49	0.59
21:i3:1236:G:H4'	31:P3:133:ILE:HB	1.85	0.59
21:i3:1388:A:O2'	24:D3:205:PRO:O	2.15	0.59
21:i3:1849:G:H1'	21:i3:1850:A:H5'	1.83	0.59
31:P3:13:ARG:O	31:P3:13:ARG:HG3	2.03	0.59
33:R3:42:PRO:HD2	33:R3:46:LEU:HD23	1.84	0.59
4:X4:132:ALA:HB1	4:X4:137:LYS:HD2	1.84	0.59
8:f4:80:ARG:NH1	21:i4:1327:G:H1'	2.18	0.59
9:g4:78:ALA:H	9:g4:89:LEU:HD12	1.67	0.59
18:Z4:50:PHE:O	34:S4:5:ILE:HG22	1.93	0.59
21:i4:187:G:C2	21:i4:213:G:C2	2.90	0.59
32:Q4:24:HIS:CE1	32:Q4:69:ARG:HB2	2.37	0.59
33:R4:5:ARG:HB2	33:R4:10:LYS:HZ1	1.67	0.59
10:C5:272:HIS:C	10:C5:274:VAL:H	2.10	0.59
12:J5:79:ARG:NH2	21:i5:819:G:OP1	2.35	0.59
15:O5:67:ASP:O	15:O5:69:SER:N	2.36	0.59
21:i5:797:C:O2	27:H5:109:ARG:NH2	2.34	0.59
21:i5:1201:U:O2'	21:i5:1358:U:H4'	2.02	0.59
21:i5:1643:U:O2'	21:i5:1644:C:O5'	2.19	0.59
25:E5:185:GLY:H	25:E5:189:LEU:HB3	1.68	0.59
31:P5:121:ILE:HG13	31:P5:123:TYR:CG	2.38	0.59
11:G6:142:ARG:CD	11:G6:147:LEU:HD12	2.32	0.59
14:N6:40:LEU:O	14:N6:43:LYS:HG2	2.02	0.59
20:e6:43:VAL:HG11	21:i6:551:U:C2'	2.31	0.59
21:i6:881:G:O6	21:i6:905:C:N4	2.35	0.59
21:i6:947:G:H1	21:i6:979:C:H42	1.49	0.59
21:i6:1300:U:H2'	31:P6:51:ARG:HH22	1.66	0.59
21:i6:1521:C:H42	34:S6:137:LYS:HE3	1.66	0.59
21:i6:1784:G:H2'	21:i6:1784:G:N3	2.15	0.59
21:i6:1828:C:C4'	37:l6:154:CYS:SG	2.91	0.59
31:P6:119:PHE:HA	34:S6:120:HIS:HB2	1.83	0.59
32:Q6:24:HIS:CE1	32:Q6:69:ARG:HB2	2.37	0.59
36:k4:145:VAL:CB	36:k4:167:ILE:HB	2.16	0.59
36:k5:94:HIS:CB	36:k5:133:ALA:HB3	2.32	0.59
36:k5:170:LEU:HG	36:k5:171:ASN:H	1.68	0.59
5:a1:100:ARG:HH11	5:a1:100:ARG:CG	2.14	0.59
11:G1:85:ARG:O	11:G1:87:ARG:NH1	2.35	0.59
15:O1:134:PRO:HB2	21:i1:944:A:H5''	1.84	0.59
21:i1:1522:A:C8	31:P1:128:HIS:HB3	2.37	0.59
31:P1:121:ILE:HG13	31:P1:123:TYR:CG	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d2:22:ARG:HG2	7:d2:38:MET:SD	2.43	0.59
12:J2:77:LEU:HA	12:J2:80:ARG:HE	1.67	0.59
21:i2:881:G:O6	21:i2:905:C:N4	2.35	0.59
21:i2:1328:G:H1	21:i2:1501:C:H42	1.51	0.59
21:i2:1756:C:N4	21:i2:1776:G:C6	2.71	0.59
23:B2:208:HIS:CE1	23:B2:209:ASP:HB2	2.38	0.59
29:K2:23:ALA:HB3	29:K2:67:PHE:HB2	1.84	0.59
10:C3:272:HIS:C	10:C3:274:VAL:H	2.10	0.59
13:M3:72:HIS:O	13:M3:73:GLN:HG2	2.02	0.59
16:W3:17:ALA:HB1	16:W3:25:VAL:HG11	1.84	0.59
21:i3:1696:C:O2'	21:i3:1702:G:H1'	2.03	0.59
24:D3:71:ALA:HB3	29:K3:20:VAL:HG11	1.84	0.59
26:F3:136:ARG:C	26:F3:203:ASN:HD22	2.11	0.59
28:I3:101:ILE:HD12	28:I3:190:LEU:HD11	1.82	0.59
9:g4:34:ALA:HB1	9:g4:66:VAL:HG11	1.84	0.59
10:C4:145:LYS:HG3	21:i4:1348:G:C5'	2.33	0.59
11:G4:171:THR:HG22	11:G4:172:LYS:H	1.67	0.59
21:i4:735:C:H3'	21:i4:735:C:H6	1.68	0.59
21:i4:1232:U:O2	21:i4:1527:C:N4	2.36	0.59
22:A4:158:ASP:OD1	22:A4:159:ILE:N	2.36	0.59
23:B4:208:HIS:CE1	23:B4:209:ASP:HB2	2.38	0.59
31:P4:119:PHE:HA	34:S4:120:HIS:HB2	1.83	0.59
34:S4:22:GLY:HA2	34:S4:56:ALA:HB3	1.83	0.59
7:d5:22:ARG:HG2	7:d5:38:MET:SD	2.43	0.59
11:G5:85:ARG:O	11:G5:87:ARG:NH1	2.35	0.59
12:J5:77:LEU:HB3	12:J5:80:ARG:HH21	1.67	0.59
14:N5:148:ALA:HB3	14:N5:149:LEU:CA	2.17	0.59
15:O5:134:PRO:HB2	21:i5:944:A:H5''	1.84	0.59
21:i5:1521:C:H42	34:S5:137:LYS:HE3	1.65	0.59
28:I5:89:GLU:OE2	28:I5:92:ARG:NH2	2.36	0.59
29:K5:23:ALA:HB3	29:K5:67:PHE:HB2	1.84	0.59
11:G6:149:LYS:O	11:G6:150:GLU:HB2	2.01	0.59
21:i6:1236:G:H5'	31:P6:133:ILE:HD12	1.76	0.59
36:k2:96:GLN:HE22	36:k2:122:LYS:CD	2.15	0.59
36:k3:95:GLN:CG	36:k3:164:ILE:HD12	1.90	0.59
36:k4:86:HIS:HB3	36:k4:141:HIS:HD2	1.67	0.59
36:k5:170:LEU:CD2	36:k5:171:ASN:CG	2.76	0.59
36:k6:79:TYR:CD1	36:k6:131:ILE:HD13	2.37	0.59
37:l6:150:GLN:O	37:l6:151:LYS:CD	2.50	0.59
4:X1:28:LYS:HE3	4:X1:32:LEU:HD13	1.85	0.59
4:X1:109:GLY:O	4:X1:119:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g1:5:MET:HA	9:g1:8:ARG:HH22	1.67	0.59
10:C1:272:HIS:C	10:C1:274:VAL:H	2.09	0.59
14:N1:149:LEU:N	14:N1:149:LEU:HD13	2.18	0.59
16:W1:17:ALA:HB1	16:W1:25:VAL:HG11	1.84	0.59
19:b1:37:CYS:CB	19:b1:38:PRO:CD	2.60	0.59
19:b1:65:GLN:HB2	19:b1:72:ARG:HB3	1.85	0.59
24:D1:22:ASN:O	24:D1:26:THR:OG1	2.15	0.59
11:G2:142:ARG:CD	11:G2:147:LEU:HD12	2.32	0.59
21:i2:628:A:N7	24:D2:145:GLN:NE2	2.49	0.59
21:i2:1616:U:H3	21:i2:1620:A:H2	1.51	0.59
21:i2:1816:G:H21	35:j2:20:MET:HE3	1.65	0.59
3:V3:80:SER:HB2	22:A3:5:LEU:HD21	1.84	0.59
4:X3:59:ALA:HB2	4:X3:67:ARG:HG2	1.83	0.59
9:g3:34:ALA:HB1	9:g3:66:VAL:HG11	1.85	0.59
21:i3:744:G:N2	21:i3:795:A:N1	2.50	0.59
21:i3:1619:A:H4'	31:P3:44:ARG:HH21	1.65	0.59
21:i3:1621:U:O4	31:P3:82:ASP:CG	2.41	0.59
21:i3:1756:C:N4	21:i3:1776:G:C6	2.71	0.59
23:B3:65:ARG:H	23:B3:88:THR:HG22	1.67	0.59
31:P3:121:ILE:CD1	31:P3:123:TYR:CD2	2.74	0.59
35:j3:5:TRP:HA	35:j3:5:TRP:CE3	2.38	0.59
8:f4:105:TYR:CZ	8:f4:131:PHE:HD2	2.10	0.59
14:N4:4:MET:HE3	14:N4:124:ARG:HD3	1.83	0.59
16:W4:17:ALA:HB1	16:W4:25:VAL:HG11	1.84	0.59
17:Y4:17:LEU:HD22	25:E4:69:PHE:HE1	1.67	0.59
21:i4:377:G:N2	21:i4:387:C:O2	2.33	0.59
21:i4:561:A:H8	21:i4:561:A:O5'	1.85	0.59
21:i4:1328:G:H1	21:i4:1501:C:H42	1.50	0.59
28:I4:196:GLU:C	28:I4:200:ARG:HG3	2.21	0.59
8:f5:83:LYS:HG3	8:f5:83:LYS:O	2.02	0.59
21:i5:561:A:H8	21:i5:561:A:O5'	1.84	0.59
21:i5:614:C:O2'	21:i5:626:G:N2	2.35	0.59
21:i5:690:G:O6	21:i5:739:C:C2	2.55	0.59
21:i5:1058:A:N6	21:i5:1830:U:OP1	2.34	0.59
21:i5:1120:U:N3	21:i5:1121:G:N7	2.49	0.59
21:i5:1300:U:H2'	31:P5:51:ARG:HH22	1.66	0.59
25:E5:180:LEU:HA	25:E5:194:VAL:HA	1.83	0.59
28:I5:205:ARG:O	36:k4:56:HIS:CD2	2.51	0.59
28:I5:207:GLY:C	36:k4:12:SER:CB	2.76	0.59
33:R5:42:PRO:HD2	33:R5:46:LEU:HD23	1.85	0.59
19:b6:65:GLN:HB2	19:b6:72:ARG:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:194:C:H42	21:i6:205:G:H1	1.51	0.59
21:i6:744:G:N2	21:i6:795:A:N1	2.50	0.59
21:i6:1378:A:OP1	22:A6:132:GLN:NE2	2.33	0.59
21:i6:1692:U:H2'	21:i6:1693:G:C8	2.38	0.59
36:k1:86:HIS:ND1	36:k1:141:HIS:CD2	2.70	0.59
36:k5:145:VAL:C	36:k5:167:ILE:CG1	2.75	0.59
36:k6:94:HIS:CD2	36:k6:135:MET:HG3	2.38	0.59
36:k6:96:GLN:OE1	36:k6:122:LYS:HD3	2.01	0.59
37:l4:150:GLN:O	37:l4:151:LYS:CD	2.50	0.59
12:J1:30:LYS:HB3	20:e1:42:PHE:CE2	2.37	0.59
21:i1:1464:C:OP2	33:R1:60:ARG:NH1	2.35	0.59
27:H1:157:HIS:NE2	27:H1:188:GLU:OE1	2.35	0.59
32:Q1:24:HIS:CE1	32:Q1:69:ARG:HB2	2.37	0.59
14:N2:149:LEU:N	14:N2:149:LEU:HD13	2.17	0.59
21:i2:194:C:H42	21:i2:205:G:H1	1.51	0.59
21:i2:744:G:N2	21:i2:795:A:N1	2.50	0.59
21:i2:797:C:O2	27:H2:109:ARG:NH2	2.35	0.59
21:i2:1692:U:H2'	21:i2:1693:G:C8	2.37	0.59
25:E2:11:ARG:NH1	25:E2:21:ASP:O	2.35	0.59
33:R2:60:ARG:HH11	33:R2:60:ARG:CG	2.16	0.59
11:G3:53:SER:HB2	21:i3:165:G:H4'	1.84	0.59
18:Z3:85:ARG:HH21	18:Z3:85:ARG:CG	2.14	0.59
21:i3:368:U:H3	36:k1:110:ASN:H	1.49	0.59
21:i3:384:U:O4	28:I3:5:ARG:NH2	2.36	0.59
21:i3:511:U:O2'	21:i3:576:A:N1	2.34	0.59
21:i3:1521:C:C5	34:S3:137:LYS:HB2	2.36	0.59
21:i3:1616:U:H3	21:i3:1620:A:H2	1.51	0.59
21:i3:1828:C:H5'	37:l3:154:CYS:SG	2.42	0.59
26:F3:127:ARG:HB3	26:F3:128:ILE:CB	2.32	0.59
27:H3:157:HIS:NE2	27:H3:188:GLU:OE1	2.35	0.59
5:a4:38:LYS:HB3	5:a4:71:LEU:HB2	1.84	0.59
6:c4:13:ARG:NH1	6:c4:33:GLU:OE1	2.33	0.59
11:G4:85:ARG:O	11:G4:87:ARG:NH1	2.35	0.59
16:W4:15:ASN:HD21	16:W4:72:CYS:H	1.50	0.59
28:I4:89:GLU:OE2	28:I4:92:ARG:NH2	2.36	0.59
4:X5:28:LYS:HE3	4:X5:32:LEU:HD13	1.85	0.59
8:f5:80:ARG:NH1	21:i5:1509:U:C4	2.71	0.59
11:G5:65:GLN:NE2	21:i5:1746:U:H1'	2.18	0.59
18:Z5:83:LEU:HD21	34:S5:55:ARG:HH21	1.65	0.59
21:i5:165:G:OP2	21:i5:165:G:N2	2.36	0.59
21:i5:172:U:N3	21:i5:336:A:O2'	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1374:C:O2'	21:i5:1464:C:O2	2.19	0.59
21:i5:1412:C:O2'	21:i5:1413:G:N7	2.34	0.59
21:i5:1718:G:H5''	35:j5:24:SER:HG	1.54	0.59
22:A5:158:ASP:OD1	22:A5:159:ILE:N	2.36	0.59
23:B5:208:HIS:CE1	23:B5:209:ASP:HB2	2.38	0.59
26:F5:30:ILE:HG12	26:F5:113:VAL:HG11	1.83	0.59
31:P5:41:GLN:CD	31:P5:84:ILE:HD13	2.28	0.59
33:R5:60:ARG:HH11	33:R5:60:ARG:CG	2.16	0.59
2:U6:67:LYS:HB2	2:U6:78:ASP:HB2	1.83	0.59
4:X6:109:GLY:O	4:X6:119:ARG:NH1	2.36	0.59
10:C6:130:ILE:O	10:C6:138:GLY:N	2.35	0.59
14:N6:25:TRP:CH2	19:b6:84:HIS:CE1	2.89	0.59
15:O6:134:PRO:HB2	21:i6:944:A:H5''	1.84	0.59
26:F6:179:ASN:HB3	26:F6:186:ASN:HB3	1.84	0.59
33:R6:5:ARG:HE	33:R6:53:TYR:HB2	1.68	0.59
37:l3:120:ILE:CG2	37:l3:121:PRO:HD2	2.32	0.59
1:T1:70:ALA:HB3	1:T1:75:MET:HE3	1.85	0.59
4:X1:59:ALA:HB2	4:X1:67:ARG:HG2	1.83	0.59
4:X1:132:ALA:HB1	4:X1:137:LYS:HD2	1.84	0.59
21:i1:165:G:N2	21:i1:165:G:OP2	2.35	0.59
21:i1:1328:G:H1	21:i1:1501:C:H42	1.51	0.59
28:I1:121:LEU:HD13	15:O6:63:LYS:NZ	2.17	0.59
33:R1:7:LYS:O	33:R1:11:LYS:N	2.35	0.59
2:U2:22:ILE:N	2:U2:89:ILE:O	2.32	0.59
6:c2:22:GLY:O	26:F2:127:ARG:NE	2.36	0.59
13:M2:48:HIS:HB2	13:M2:114:TYR:CZ	2.38	0.59
15:O2:147:ARG:HD2	15:O2:150:ARG:HE	1.67	0.59
16:W2:17:ALA:HB1	16:W2:25:VAL:HG11	1.84	0.59
20:e2:6:LEU:C	20:e2:6:LEU:HD23	2.28	0.59
21:i2:1621:U:O4	31:P2:82:ASP:CG	2.41	0.59
23:B2:65:ARG:H	23:B2:88:THR:HG22	1.67	0.59
24:D2:42:THR:OG1	24:D2:45:ARG:O	2.20	0.59
28:I2:89:GLU:OE2	28:I2:92:ARG:NH2	2.36	0.59
33:R2:5:ARG:HB2	33:R2:10:LYS:NZ	2.18	0.59
14:N3:149:LEU:HD13	14:N3:149:LEU:N	2.17	0.59
24:D3:42:THR:OG1	24:D3:45:ARG:O	2.20	0.59
33:R3:78:ARG:O	33:R3:82:ASP:HB2	2.02	0.59
1:T4:70:ALA:HB3	1:T4:75:MET:HE3	1.85	0.59
2:U4:17:ILE:HG22	2:U4:95:SER:N	2.03	0.59
2:U4:22:ILE:N	2:U4:89:ILE:O	2.32	0.59
13:M4:14:VAL:CG1	13:M4:127:TYR:CD1	2.74	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M4:48:HIS:HB2	13:M4:114:TYR:CZ	2.38	0.59
14:N4:133:ARG:NH2	30:L4:154:GLN:HB2	2.17	0.59
25:E4:11:ARG:NH1	25:E4:21:ASP:O	2.35	0.59
33:R4:100:PRO:HA	33:R4:117:LEU:HD12	1.85	0.59
8:f5:80:ARG:CZ	21:i5:1509:U:C4	2.86	0.59
12:J5:127:ARG:NH2	21:i5:523:A:OP2	2.36	0.59
21:i5:744:G:N2	21:i5:795:A:N1	2.50	0.59
21:i5:1522:A:C8	31:P5:128:HIS:HB3	2.37	0.59
21:i5:1616:U:H3	21:i5:1620:A:H2	1.50	0.59
25:E5:11:ARG:NH1	25:E5:21:ASP:O	2.35	0.59
29:K5:58:VAL:HA	29:K5:71:LEU:HA	1.85	0.59
31:P5:72:LYS:NZ	31:P5:106:GLU:OE2	2.32	0.59
1:T6:74:SER:O	21:i6:1587:G:N2	2.35	0.59
10:C6:273:LEU:HB3	10:C6:280:VAL:HG12	1.84	0.59
10:C6:277:HIS:NE2	10:C6:279:ARG:HD3	2.16	0.59
11:G6:53:SER:HB2	21:i6:165:G:H4'	1.84	0.59
11:G6:141:ILE:O	11:G6:144:LEU:CG	2.48	0.59
17:Y6:17:LEU:HD22	25:E6:69:PHE:HE1	1.67	0.59
21:i6:689:U:O5'	21:i6:689:U:H6	1.86	0.59
21:i6:1236:G:C6	34:S6:137:LYS:HE3	2.33	0.59
24:D6:64:ARG:CD	29:K6:95:ARG:HH22	2.14	0.59
27:H6:157:HIS:NE2	27:H6:188:GLU:OE1	2.35	0.59
37:l2:148:PHE:CE2	37:l2:156:ALA:CB	2.85	0.59
9:g1:220:ASP:O	9:g1:224:GLY:N	2.33	0.59
10:C1:145:LYS:CG	21:i1:1348:G:H4'	2.30	0.59
15:O1:67:ASP:O	15:O1:69:SER:N	2.36	0.59
21:i1:1210:G:N1	21:i1:1690:U:C2	2.70	0.59
23:B1:65:ARG:H	23:B1:88:THR:HG22	1.67	0.59
29:K1:58:VAL:HA	29:K1:71:LEU:HA	1.85	0.59
15:O2:134:PRO:HB2	21:i2:944:A:H5''	1.85	0.59
21:i2:172:U:O2	21:i2:336:A:O2'	2.19	0.59
26:F2:188:TYR:O	26:F2:192:LYS:N	2.36	0.59
33:R2:100:PRO:HA	33:R2:117:LEU:HD12	1.85	0.59
1:T3:74:SER:O	21:i3:1587:G:N2	2.36	0.59
6:c3:22:GLY:O	26:F3:127:ARG:NE	2.36	0.59
7:d3:22:ARG:HG2	7:d3:38:MET:SD	2.43	0.59
12:J3:77:LEU:HB3	12:J3:80:ARG:HH21	1.66	0.59
16:W3:15:ASN:HD21	16:W3:72:CYS:H	1.50	0.59
21:i3:970:G:N3	28:I6:200:ARG:NH2	2.50	0.59
21:i3:1232:U:O2	21:i3:1527:C:N4	2.36	0.59
28:I3:207:GLY:CA	36:k1:12:SER:CB	2.77	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:K3:58:VAL:HA	29:K3:71:LEU:HA	1.85	0.59
1:T4:74:SER:O	21:i4:1587:G:N2	2.35	0.59
3:V4:80:SER:HB2	22:A4:5:LEU:HD21	1.84	0.59
8:f4:95:ARG:HE	21:i4:1289:U:H5'	1.54	0.59
9:g4:5:MET:HA	9:g4:8:ARG:HH22	1.67	0.59
11:G4:53:SER:HB2	21:i4:165:G:H4'	1.84	0.59
14:N4:133:ARG:HD2	30:L4:152:LYS:CG	2.33	0.59
19:b4:65:GLN:HB2	19:b4:72:ARG:HB3	1.85	0.59
21:i4:1756:C:N4	21:i4:1776:G:C6	2.71	0.59
26:F4:127:ARG:HB3	26:F4:128:ILE:CB	2.32	0.59
26:F4:179:ASN:HB3	26:F4:186:ASN:HB3	1.85	0.59
29:K4:58:VAL:HA	29:K4:71:LEU:HA	1.85	0.59
2:U5:18:HIS:HB3	2:U5:118:ASP:H	1.68	0.59
4:X5:132:ALA:HB1	4:X5:137:LYS:HD2	1.84	0.59
8:f5:105:TYR:CD2	8:f5:106:TYR:CZ	2.90	0.59
9:g5:176:VAL:O	9:g5:187:ASN:ND2	2.36	0.59
12:J5:11:LYS:NZ	12:J5:13:TYR:O	2.30	0.59
21:i5:964:A:N1	21:i5:1065:G:O2'	2.36	0.59
21:i5:1377:U:OP2	22:A5:102:ARG:HD2	2.01	0.59
27:H5:157:HIS:NE2	27:H5:188:GLU:OE1	2.35	0.59
2:U6:18:HIS:HB3	2:U6:118:ASP:H	1.68	0.59
15:O6:31:CYS:HA	15:O6:44:VAL:HA	1.85	0.59
18:Z6:82:SER:CB	21:i6:1598:G:C2'	2.72	0.59
21:i6:316:G:N3	21:i6:335:G:N2	2.51	0.59
33:R6:7:LYS:O	33:R6:11:LYS:N	2.35	0.59
36:k1:2:PHE:CE2	36:k1:174:LEU:HD22	2.38	0.59
36:k1:144:CYS:HB2	36:k1:168:HIS:O	2.03	0.59
36:k1:170:LEU:CD2	36:k1:171:ASN:CG	2.76	0.59
36:k3:170:LEU:CD2	36:k3:171:ASN:CG	2.76	0.59
36:k5:93:PRO:O	36:k5:132:VAL:CB	2.51	0.59
37:l3:131:VAL:HG12	37:l3:132:CYS:N	2.18	0.59
37:l4:128:VAL:CG1	37:l4:166:ILE:C	2.70	0.59
6:c1:22:GLY:O	26:F1:127:ARG:NE	2.36	0.59
7:d1:22:ARG:HG2	7:d1:38:MET:SD	2.43	0.59
16:W1:15:ASN:ND2	16:W1:72:CYS:H	2.00	0.59
21:i1:1183:A:P	35:j1:15:ARG:HD3	2.43	0.59
23:B1:208:HIS:CE1	23:B1:209:ASP:HB2	2.38	0.59
1:T2:70:ALA:HB3	1:T2:75:MET:HE3	1.85	0.59
4:X2:59:ALA:HB2	4:X2:67:ARG:HG2	1.83	0.59
11:G2:74:ARG:HG2	11:G2:96:SER:HA	1.84	0.59
17:Y2:109:GLU:OE2	17:Y2:113:ARG:CZ	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:361:U:O4'	21:i2:1175:G:N2	2.35	0.59
21:i2:384:U:O4	28:I2:5:ARG:NH2	2.36	0.59
21:i2:1679:A:C8	26:F2:60:ARG:HB3	2.38	0.59
21:i2:1756:C:N4	21:i2:1776:G:H1	1.99	0.59
23:B2:87:ILE:HG23	23:B2:101:HIS:HB2	1.85	0.59
23:B2:144:LYS:HD2	23:B2:208:HIS:HB3	1.84	0.59
33:R2:42:PRO:HD2	33:R2:46:LEU:HD23	1.85	0.59
33:R2:84:TYR:O	33:R2:87:GLU:HG2	2.03	0.59
2:U3:67:LYS:HE3	21:i3:1337:C:H4'	1.84	0.59
12:J3:128:VAL:HG12	12:J3:132:GLN:HE22	1.67	0.59
13:M3:36:ARG:NE	21:i3:1310:U:C6	2.69	0.59
15:O3:67:ASP:O	15:O3:69:SER:N	2.36	0.59
16:W3:72:CYS:SG	16:W3:73:GLY:N	2.73	0.59
21:i3:1679:A:C8	26:F3:60:ARG:HB3	2.38	0.59
26:F3:179:ASN:HB3	26:F3:186:ASN:HB3	1.85	0.59
29:K3:23:ALA:HB3	29:K3:67:PHE:HB2	1.85	0.59
33:R3:7:LYS:O	33:R3:11:LYS:N	2.35	0.59
33:R3:84:TYR:O	33:R3:87:GLU:HG2	2.03	0.59
16:W4:15:ASN:ND2	16:W4:72:CYS:H	2.00	0.59
21:i4:384:U:O4	28:I4:5:ARG:NH2	2.36	0.59
21:i4:1679:A:C8	26:F4:60:ARG:HB3	2.38	0.59
25:E4:185:GLY:H	25:E4:189:LEU:HB3	1.67	0.59
27:H4:20:GLU:O	27:H4:24:SER:N	2.35	0.59
29:K4:23:ALA:HB3	29:K4:67:PHE:HB2	1.84	0.59
8:f5:99:LYS:CB	21:i5:1285:G:H21	1.65	0.59
9:g5:220:ASP:O	9:g5:224:GLY:N	2.33	0.59
15:O5:31:CYS:HA	15:O5:44:VAL:HA	1.85	0.59
21:i5:600:G:H5'	21:i5:630:U:H2'	1.83	0.59
21:i5:1750:C:C5	21:i5:1781:A:N1	2.71	0.59
21:i5:1756:C:N4	21:i5:1776:G:C6	2.71	0.59
24:D5:11:PHE:O	24:D5:15:GLY:N	2.31	0.59
28:I5:196:GLU:O	28:I5:200:ARG:CG	2.28	0.59
2:U6:49:LYS:O	2:U6:51:LYS:N	2.36	0.59
8:f6:87:THR:CG2	8:f6:90:LYS:NZ	2.38	0.59
8:f6:105:TYR:CE1	8:f6:131:PHE:CB	2.85	0.59
21:i6:1643:U:O2'	21:i6:1644:C:O5'	2.20	0.59
29:K6:23:ALA:HB3	29:K6:67:PHE:HB2	1.85	0.59
36:k4:94:HIS:CG	36:k4:135:MET:CG	2.85	0.59
8:f1:93:HIS:HB3	21:i1:1304:U:C5'	2.18	0.58
11:G1:186:GLN:CD	21:i1:331:C:C4	2.63	0.58
14:N1:150:VAL:CG1	14:N1:151:ALA:H	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y1:113:ARG:HH11	8:f2:111:ASN:CA	1.97	0.58
21:i1:12:U:H4'	21:i1:1357:A:C4'	2.33	0.58
31:P1:15:PHE:CZ	31:P1:112:ILE:CD1	2.78	0.58
31:P1:122:THR:O	31:P1:122:THR:HG23	2.01	0.58
6:c2:13:ARG:HD3	6:c2:35:MET:HB2	1.85	0.58
15:O2:63:LYS:HE3	28:I4:163:GLU:HG2	1.81	0.58
21:i2:733:C:OP2	21:i2:733:C:H4'	2.03	0.58
21:i2:1300:U:H2'	31:P2:51:ARG:HH22	1.67	0.58
21:i2:1378:A:P	22:A2:132:GLN:NE2	2.76	0.58
22:A2:158:ASP:OD1	22:A2:159:ILE:N	2.35	0.58
8:f3:80:ARG:HD2	21:i3:1509:U:H3	0.76	0.58
13:M3:48:HIS:HB2	13:M3:114:TYR:CZ	2.37	0.58
21:i3:879:C:N3	21:i3:880:G:N1	2.51	0.58
21:i3:881:G:O6	21:i3:905:C:N4	2.35	0.58
6:c4:13:ARG:HD3	6:c4:35:MET:HB2	1.84	0.58
8:f4:105:TYR:CE1	8:f4:131:PHE:CE1	2.91	0.58
19:b4:37:CYS:CB	19:b4:38:PRO:CD	2.63	0.58
31:P4:37:TYR:OH	31:P4:87:PRO:HD3	2.03	0.58
32:Q4:4:LYS:NZ	32:Q4:99:TYR:HD1	2.00	0.58
1:T5:70:ALA:HB3	1:T5:75:MET:HE3	1.85	0.58
6:c5:22:GLY:O	26:F5:127:ARG:NE	2.36	0.58
14:N5:84:LEU:CD2	14:N5:149:LEU:O	2.51	0.58
14:N5:149:LEU:HD13	14:N5:149:LEU:N	2.17	0.58
24:D5:71:ALA:HB3	29:K5:20:VAL:HG11	1.84	0.58
26:F5:136:ARG:O	26:F5:203:ASN:ND2	2.36	0.58
32:Q5:24:HIS:CE1	32:Q5:69:ARG:HB2	2.37	0.58
8:f6:105:TYR:CE1	8:f6:131:PHE:CE1	2.91	0.58
9:g6:5:MET:HA	9:g6:8:ARG:HH22	1.67	0.58
11:G6:219:GLU:HB2	11:G6:222:GLU:HB3	1.85	0.58
16:W6:15:ASN:HD21	16:W6:72:CYS:H	1.50	0.58
21:i6:879:C:O2	21:i6:907:G:N2	2.35	0.58
21:i6:1522:A:C8	31:P6:128:HIS:HB3	2.37	0.58
25:E6:11:ARG:NH1	25:E6:21:ASP:O	2.35	0.58
36:k1:170:LEU:HD23	36:k1:171:ASN:CB	2.33	0.58
36:k5:96:GLN:CD	36:k5:122:LYS:HB2	2.28	0.58
36:k6:96:GLN:HE22	36:k6:122:LYS:CD	2.15	0.58
37:l6:148:PHE:CE2	37:l6:156:ALA:CB	2.85	0.58
10:C1:65:LYS:CB	10:C1:279:ARG:CB	2.72	0.58
11:G1:230:LYS:O	11:G1:234:LEU:N	2.37	0.58
16:W1:76:SER:OG	21:i1:1157:G:O3'	2.21	0.58
21:i1:1109:C:O2'	21:i1:1110:G:O4'	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1679:A:C8	26:F1:60:ARG:HB3	2.38	0.58
21:i1:1756:C:N4	21:i1:1776:G:C6	2.71	0.58
28:I1:89:GLU:OE2	28:I1:92:ARG:NH2	2.36	0.58
31:P1:41:GLN:CD	31:P1:84:ILE:CG2	2.76	0.58
34:S1:85:ASN:HD22	34:S1:98:VAL:HB	1.68	0.58
4:X2:109:GLY:O	4:X2:119:ARG:NH1	2.36	0.58
9:g2:82:SER:OG	9:g2:84:ASP:OD1	2.21	0.58
10:C2:145:LYS:HD2	21:i2:1348:G:C5'	2.32	0.58
11:G2:215:LYS:O	11:G2:219:GLU:N	2.36	0.58
13:M2:72:HIS:O	13:M2:73:GLN:HG2	2.02	0.58
21:i2:557:U:C2'	21:i2:558:G:H8	2.09	0.58
21:i2:1412:C:O2'	21:i2:1413:G:N7	2.34	0.58
24:D2:71:ALA:HB3	29:K2:20:VAL:HG11	1.84	0.58
26:F2:179:ASN:HB3	26:F2:186:ASN:HB3	1.85	0.58
30:L2:121:GLN:HG3	30:L2:153:LYS:HE2	1.86	0.58
34:S2:108:ARG:HH12	21:i4:1774:C:P	2.26	0.58
10:C3:114:LYS:HB2	21:i3:1358:U:OP1	2.03	0.58
11:G3:74:ARG:HG2	11:G3:96:SER:HA	1.84	0.58
21:i3:1268:C:H42	21:i3:1514:G:H22	1.51	0.58
33:R3:60:ARG:HG2	33:R3:64:GLY:O	2.03	0.58
33:R3:79:GLU:HG2	33:R3:80:ARG:N	2.19	0.58
4:X4:109:GLY:O	4:X4:119:ARG:NH1	2.36	0.58
15:O4:31:CYS:HA	15:O4:44:VAL:HA	1.85	0.58
18:Z4:85:ARG:HG3	18:Z4:85:ARG:NH2	2.13	0.58
2:U5:67:LYS:HB2	2:U5:78:ASP:HB2	1.84	0.58
3:V5:80:SER:HB2	22:A5:5:LEU:HD21	1.84	0.58
11:G5:139:SER:OG	21:i5:145:G:OP1	2.21	0.58
21:i5:334:C:OP1	21:i5:334:C:H4'	2.03	0.58
21:i5:735:C:H4'	21:i5:736:C:OP2	2.01	0.58
21:i5:881:G:O6	21:i5:905:C:N4	2.35	0.58
21:i5:1109:C:O2'	21:i5:1110:G:O4'	2.22	0.58
2:U6:19:ARG:CD	2:U6:119:ALA:O	2.23	0.58
4:X6:115:ILE:HG22	4:X6:117:GLY:H	1.68	0.58
5:a6:38:LYS:HB3	5:a6:71:LEU:HB2	1.84	0.58
11:G6:189:ARG:NH1	21:i6:330:G:O6	2.36	0.58
11:G6:215:LYS:O	11:G6:219:GLU:N	2.36	0.58
12:J6:77:LEU:HA	12:J6:80:ARG:HE	1.67	0.58
12:J6:148:ILE:O	21:i6:821:G:N2	2.34	0.58
18:Z6:83:LEU:HD21	34:S6:55:ARG:HH21	1.65	0.58
21:i6:165:G:OP2	21:i6:165:G:N2	2.36	0.58
21:i6:1069:U:OP1	36:k6:18:LYS:HE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1208:A:O2'	21:i6:1835:A:N7	2.34	0.58
25:E6:185:GLY:H	25:E6:189:LEU:HB3	1.67	0.58
28:I6:43:ILE:HG12	28:I6:57:ALA:HA	1.86	0.58
30:L6:61:PRO:HD3	30:L6:141:ASN:HD21	1.68	0.58
33:R6:76:GLU:O	33:R6:79:GLU:OE2	2.21	0.58
36:k3:95:GLN:HB3	36:k3:134:ILE:CD1	1.97	0.58
36:k5:169:TYR:CZ	36:k5:172:ASP:HB3	2.37	0.58
37:l1:148:PHE:CE2	37:l1:156:ALA:CB	2.85	0.58
2:U1:67:LYS:HE3	21:i1:1337:C:H4'	1.84	0.58
19:b1:37:CYS:CA	19:b1:63:LEU:HD21	2.32	0.58
21:i1:1236:G:C6	34:S1:137:LYS:HE3	2.33	0.58
32:Q1:4:LYS:NZ	32:Q1:99:TYR:HD1	2.01	0.58
33:R1:5:ARG:HE	33:R1:53:TYR:HB2	1.69	0.58
35:j1:5:TRP:HA	35:j1:5:TRP:CE3	2.37	0.58
5:a2:97:PRO:HB2	21:i2:1868:U:H3	1.67	0.58
9:g2:21:ILE:HB	9:g2:290:ALA:HB2	1.85	0.58
14:N2:131:THR:C	30:L2:152:LYS:HG2	2.25	0.58
20:e2:47:PRO:O	20:e2:48:THR:HG23	2.04	0.58
21:i2:536:A:N6	21:i2:549:C:O4'	2.36	0.58
21:i2:557:U:O2'	21:i2:558:G:N9	2.34	0.58
21:i2:688:U:N1	27:H2:122:LEU:HD13	2.18	0.58
28:I2:123:ARG:NH2	15:O5:65:ASP:CB	2.66	0.58
35:j2:5:TRP:HA	35:j2:5:TRP:HE3	1.68	0.58
1:T3:70:ALA:HB3	1:T3:75:MET:HE3	1.85	0.58
4:X3:28:LYS:HE3	4:X3:32:LEU:HD13	1.85	0.58
11:G3:215:LYS:O	11:G3:219:GLU:N	2.36	0.58
21:i3:526:A:N1	21:i3:560:A:N1	2.50	0.58
21:i3:1044:G:C6	36:k3:20:SER:OG	2.43	0.58
9:g4:82:SER:OG	9:g4:84:ASP:OD1	2.21	0.58
9:g4:176:VAL:O	9:g4:187:ASN:ND2	2.36	0.58
11:G4:230:LYS:O	11:G4:234:LEU:N	2.37	0.58
13:M4:36:ARG:NE	21:i4:1310:U:C6	2.69	0.58
20:e4:39:ASN:CG	21:i4:552:G:OP1	2.46	0.58
21:i4:12:U:O2'	21:i4:1356:G:O2'	2.08	0.58
21:i4:194:C:H42	21:i4:205:G:H1	1.51	0.58
21:i4:692:G:OP1	21:i4:692:G:H4'	2.03	0.58
21:i4:693:A:H2	21:i4:738:C:HO2'	0.59	0.58
21:i4:1284:A:H4'	21:i4:1285:G:H2'	1.85	0.58
28:I4:43:ILE:HG12	28:I4:57:ALA:HA	1.86	0.58
8:f5:95:ARG:HD2	21:i5:1289:U:H5''	1.75	0.58
13:M5:48:HIS:HB2	13:M5:114:TYR:CZ	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W5:17:ALA:HB1	16:W5:25:VAL:HG11	1.84	0.58
21:i5:1232:U:O2	21:i5:1527:C:N4	2.35	0.58
21:i5:1521:C:N4	34:S5:137:LYS:HE3	2.19	0.58
21:i5:1679:A:C8	26:F5:60:ARG:HB3	2.38	0.58
22:A5:12:GLU:O	22:A5:14:ASP:N	2.37	0.58
24:D5:76:ARG:O	24:D5:76:ARG:NH1	2.36	0.58
31:P5:15:PHE:CE1	31:P5:110:GLU:HA	2.37	0.58
31:P5:41:GLN:CG	31:P5:84:ILE:HD13	2.33	0.58
34:S5:85:ASN:HD22	34:S5:98:VAL:HB	1.68	0.58
1:T6:70:ALA:HB3	1:T6:75:MET:HE3	1.85	0.58
8:f6:80:ARG:HD2	21:i6:1509:U:O4	2.02	0.58
11:G6:74:ARG:HG2	11:G6:96:SER:HA	1.84	0.58
12:J6:128:VAL:HG12	12:J6:132:GLN:HE22	1.67	0.58
12:J6:145:PRO:HD2	21:i6:522:A:H5''	1.86	0.58
13:M6:48:HIS:HB2	13:M6:114:TYR:CZ	2.38	0.58
14:N6:149:LEU:HD13	14:N6:149:LEU:N	2.17	0.58
21:i6:836:G:H8	21:i6:837:A:H4'	1.67	0.58
21:i6:1412:C:O2'	21:i6:1413:G:N7	2.34	0.58
33:R6:42:PRO:HD2	33:R6:46:LEU:HD23	1.85	0.58
36:k2:170:LEU:HD12	36:k2:175:TRP:CZ3	2.37	0.58
36:k4:33:PHE:CZ	36:k4:92:LEU:HD11	2.20	0.58
37:l4:182:TRP:CB	37:l4:183:PRO:HA	2.07	0.58
9:g1:207:CYS:SG	9:g1:208:ALA:N	2.77	0.58
14:N1:84:LEU:CD2	14:N1:149:LEU:O	2.52	0.58
25:E1:229:GLY:H	25:E1:235:TRP:HB2	1.69	0.58
33:R1:84:TYR:O	33:R1:87:GLU:HG2	2.03	0.58
9:g2:5:MET:HA	9:g2:8:ARG:HH22	1.67	0.58
21:i2:879:C:N3	21:i2:880:G:N1	2.51	0.58
21:i2:947:G:H1	21:i2:979:C:H42	1.49	0.58
21:i2:1268:C:H42	21:i2:1514:G:H22	1.52	0.58
21:i2:1751:C:C4	21:i2:1781:A:C2	2.92	0.58
35:j2:5:TRP:HA	35:j2:5:TRP:CE3	2.38	0.58
9:g3:176:VAL:O	9:g3:187:ASN:ND2	2.36	0.58
9:g3:207:CYS:SG	9:g3:208:ALA:N	2.77	0.58
10:C3:121:ARG:NH2	21:i3:1347:U:OP1	2.37	0.58
21:i3:194:C:H42	21:i3:205:G:H1	1.51	0.58
21:i3:361:U:O4'	21:i3:1175:G:N2	2.36	0.58
21:i3:1235:G:H1	21:i3:1523:C:H42	1.51	0.58
21:i3:1521:C:C6	34:S3:137:LYS:HA	2.39	0.58
2:U4:18:HIS:HB3	2:U4:118:ASP:H	1.68	0.58
6:c4:22:GLY:O	26:F4:127:ARG:NE	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C4:272:HIS:C	10:C4:274:VAL:H	2.10	0.58
21:i4:315:C:N4	21:i4:336:A:C2	2.71	0.58
21:i4:361:U:O4'	21:i4:1175:G:N2	2.35	0.58
21:i4:600:G:H5'	21:i4:630:U:H2'	1.84	0.58
21:i4:881:G:O6	21:i4:905:C:N4	2.36	0.58
21:i4:1777:G:C5	21:i4:1778:C:N3	2.72	0.58
26:F4:188:TYR:O	26:F4:192:LYS:N	2.36	0.58
28:I4:206:LYS:O	36:k2:12:SER:CB	2.50	0.58
33:R4:84:TYR:O	33:R4:87:GLU:HG2	2.03	0.58
1:T5:74:SER:O	21:i5:1587:G:N2	2.36	0.58
4:X5:115:ILE:HG22	4:X5:117:GLY:H	1.68	0.58
16:W5:76:SER:OG	21:i5:1157:G:O3'	2.22	0.58
21:i5:187:G:N3	21:i5:213:G:C2	2.72	0.58
21:i5:879:C:N3	21:i5:880:G:N1	2.51	0.58
21:i5:1852:C:O5'	35:j5:5:TRP:CD1	2.55	0.58
26:F5:136:ARG:C	26:F5:203:ASN:HD22	2.11	0.58
31:P5:41:GLN:OE1	31:P5:84:ILE:CD1	2.50	0.58
31:P5:121:ILE:CD1	31:P5:123:TYR:CD2	2.74	0.58
7:d6:22:ARG:HG2	7:d6:38:MET:SD	2.43	0.58
14:N6:133:ARG:HD2	30:L6:152:LYS:HB3	1.56	0.58
21:i6:1183:A:C5'	35:j6:11:ARG:HG3	2.33	0.58
21:i6:1854:U:O4	35:j6:5:TRP:HH2	1.86	0.58
25:E6:229:GLY:H	25:E6:235:TRP:HB2	1.69	0.58
26:F6:127:ARG:HB3	26:F6:128:ILE:CB	2.32	0.58
28:I6:89:GLU:OE2	28:I6:92:ARG:NH2	2.36	0.58
36:k1:96:GLN:HE22	36:k1:122:LYS:CD	2.16	0.58
36:k4:2:PHE:CD2	36:k4:168:HIS:CE1	2.91	0.58
37:l1:128:VAL:HG12	37:l1:129:THR:N	2.19	0.58
11:G1:215:LYS:O	11:G1:219:GLU:N	2.36	0.58
13:M1:48:HIS:HB2	13:M1:114:TYR:CZ	2.38	0.58
13:M1:111:VAL:CG1	13:M1:114:TYR:HE1	2.09	0.58
21:i1:1616:U:H3	21:i1:1620:A:H2	1.51	0.58
25:E1:18:TRP:HB3	25:E1:20:LEU:HG	1.86	0.58
28:I1:43:ILE:HG12	28:I1:57:ALA:HA	1.86	0.58
31:P1:121:ILE:CD1	31:P1:123:TYR:CD2	2.74	0.58
33:R1:5:ARG:HB2	33:R1:10:LYS:NZ	2.18	0.58
4:X2:115:ILE:HG22	4:X2:117:GLY:H	1.68	0.58
6:c2:13:ARG:NH1	6:c2:33:GLU:OE1	2.33	0.58
11:G2:53:SER:HB2	21:i2:165:G:H4'	1.84	0.58
21:i2:614:C:O2'	21:i2:626:G:N2	2.35	0.58
21:i2:1521:C:N4	34:S2:137:LYS:HE3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:K2:58:VAL:HA	29:K2:71:LEU:HA	1.85	0.58
34:S2:85:ASN:HD22	34:S2:98:VAL:HB	1.68	0.58
19:b3:65:GLN:HB2	19:b3:72:ARG:HB3	1.85	0.58
21:i3:1702:G:H8	21:i3:1702:G:O5'	1.86	0.58
26:F3:17:ILE:HG23	26:F3:18:LYS:H	1.69	0.58
33:R3:58:MET:O	33:R3:61:ILE:HG12	2.03	0.58
2:U4:49:LYS:O	2:U4:51:LYS:N	2.36	0.58
12:J4:77:LEU:HB3	12:J4:80:ARG:HH21	1.67	0.58
12:J4:164:PRO:HB2	21:i4:561:A:H5''	1.85	0.58
15:O4:67:ASP:O	15:O4:69:SER:N	2.36	0.58
33:R4:58:MET:CB	33:R4:61:ILE:HD11	2.33	0.58
35:j4:5:TRP:HA	35:j4:5:TRP:HE3	1.68	0.58
5:a5:97:PRO:HB2	21:i5:1868:U:H3	1.67	0.58
6:c5:13:ARG:HD3	6:c5:35:MET:HB2	1.84	0.58
11:G5:215:LYS:O	11:G5:219:GLU:N	2.36	0.58
21:i5:1236:G:H4'	31:P5:133:ILE:HB	1.85	0.58
23:B5:144:LYS:HD2	23:B5:208:HIS:HB3	1.84	0.58
9:g6:82:SER:OG	9:g6:84:ASP:OD1	2.21	0.58
11:G6:149:LYS:HB2	11:G6:149:LYS:HZ2	1.66	0.58
16:W6:15:ASN:ND2	16:W6:72:CYS:H	2.00	0.58
16:W6:40:VAL:O	16:W6:44:HIS:ND1	2.30	0.58
21:i6:384:U:O4	28:I6:5:ARG:NH2	2.35	0.58
21:i6:556:U:O2'	21:i6:558:G:OP2	2.21	0.58
25:E6:238:LEU:HD11	25:E6:242:LYS:HG2	1.86	0.58
33:R6:77:GLU:HA	33:R6:80:ARG:HB2	1.84	0.58
36:k1:11:VAL:CG2	36:k1:177:MET:CE	2.81	0.58
36:k2:169:TYR:CZ	36:k2:172:ASP:HB3	2.39	0.58
36:k5:170:LEU:HD23	36:k5:171:ASN:CB	2.34	0.58
4:X1:115:ILE:HG22	4:X1:117:GLY:H	1.68	0.58
9:g1:176:VAL:O	9:g1:187:ASN:ND2	2.36	0.58
11:G1:137:ARG:HB2	11:G1:140:ARG:HB2	1.83	0.58
11:G1:180:VAL:HG22	21:i1:143:U:C5	2.39	0.58
21:i1:361:U:O4'	21:i1:1175:G:N2	2.35	0.58
21:i1:614:C:O2'	21:i1:626:G:N2	2.35	0.58
21:i1:1232:U:O2	21:i1:1527:C:N4	2.35	0.58
21:i1:1284:A:H4'	21:i1:1285:G:H2'	1.85	0.58
21:i1:1777:G:C5	21:i1:1778:C:N3	2.72	0.58
21:i1:1828:C:O2'	37:l1:154:CYS:HA	2.03	0.58
24:D1:64:ARG:NE	29:K1:95:ARG:CZ	2.57	0.58
4:X2:28:LYS:HE3	4:X2:32:LEU:HD13	1.85	0.58
6:c2:51:ARG:NH2	26:F2:61:PHE:HA	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g2:176:VAL:O	9:g2:187:ASN:ND2	2.36	0.58
17:Y2:113:ARG:HH11	17:Y2:131:PRO:HB3	1.68	0.58
20:e2:45:VAL:CB	21:i2:535:G:C4'	2.82	0.58
21:i2:830:A:OP2	21:i2:846:G:N2	2.37	0.58
21:i2:1643:U:O2'	21:i2:1644:C:O5'	2.20	0.58
31:P2:33:LEU:O	31:P2:37:TYR:HB2	2.04	0.58
33:R2:7:LYS:O	33:R2:11:LYS:N	2.35	0.58
6:c3:51:ARG:NH2	26:F3:61:PHE:HA	2.19	0.58
8:f3:95:ARG:HD2	21:i3:1289:U:H5''	1.75	0.58
9:g3:21:ILE:HB	9:g3:290:ALA:HB2	1.86	0.58
11:G3:139:SER:OG	21:i3:145:G:OP1	2.21	0.58
11:G3:142:ARG:CD	11:G3:147:LEU:HD12	2.32	0.58
11:G3:219:GLU:HB2	11:G3:222:GLU:HB3	1.86	0.58
20:e3:46:VAL:O	20:e3:46:VAL:HG13	2.04	0.58
21:i3:563:G:O6	21:i3:592:C:N4	2.37	0.58
21:i3:696:G:N2	21:i3:735:C:OP1	2.37	0.58
22:A3:110:ASN:OD1	22:A3:111:GLN:N	2.35	0.58
22:A3:211:GLU:HG3	33:R3:81:ARG:HH21	1.60	0.58
23:B3:208:HIS:CE1	23:B3:209:ASP:HB2	2.38	0.58
25:E3:18:TRP:HB3	25:E3:20:LEU:HG	1.86	0.58
26:F3:127:ARG:CB	26:F3:128:ILE:HA	2.24	0.58
28:I3:89:GLU:OE2	28:I3:92:ARG:NH2	2.36	0.58
31:P3:121:ILE:HG13	31:P3:123:TYR:CG	2.38	0.58
31:P3:133:ILE:HG22	31:P3:134:GLY:H	1.69	0.58
33:R3:5:ARG:HE	33:R3:53:TYR:HB2	1.68	0.58
33:R3:100:PRO:HA	33:R3:117:LEU:HD12	1.85	0.58
14:N4:101:HIS:ND1	21:i4:1008:A:H1'	2.18	0.58
21:i4:614:C:O2'	21:i4:626:G:N2	2.35	0.58
21:i4:798:A:H4'	27:H4:109:ARG:HG2	1.85	0.58
23:B4:144:LYS:HD2	23:B4:208:HIS:HB3	1.84	0.58
33:R4:5:ARG:HE	33:R4:53:TYR:HB2	1.68	0.58
35:j4:5:TRP:HA	35:j4:5:TRP:CE3	2.37	0.58
4:X5:109:GLY:O	4:X5:119:ARG:NH1	2.36	0.58
6:c5:51:ARG:NH2	26:F5:61:PHE:HA	2.19	0.58
12:J5:145:PRO:HD2	21:i5:522:A:H5''	1.86	0.58
23:B5:175:GLU:O	23:B5:178:THR:OG1	2.19	0.58
26:F5:127:ARG:HB3	26:F5:128:ILE:CB	2.32	0.58
2:U6:22:ILE:N	2:U6:89:ILE:O	2.32	0.58
9:g6:34:ALA:HB1	9:g6:66:VAL:HG11	1.85	0.58
9:g6:176:VAL:O	9:g6:187:ASN:ND2	2.36	0.58
13:M6:27:ILE:CG2	29:K6:84:HIS:ND1	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W6:76:SER:OG	21:i6:1157:G:O3'	2.21	0.58
21:i6:1756:C:N4	21:i6:1776:G:H1	1.99	0.58
21:i6:1756:C:N4	21:i6:1776:G:C6	2.71	0.58
30:L6:144:LYS:HZ2	30:L6:146:THR:HG21	1.64	0.58
36:k1:22:ILE:CG1	36:k1:50:VAL:CG2	2.72	0.58
36:k2:86:HIS:CG	36:k2:141:HIS:CG	2.92	0.58
36:k4:83:ARG:NE	36:k4:175:TRP:CD2	2.71	0.58
37:l2:131:VAL:HG12	37:l2:132:CYS:N	2.18	0.58
37:l6:128:VAL:HG11	37:l6:165:ILE:HA	1.86	0.58
15:O1:31:CYS:HA	15:O1:44:VAL:HA	1.85	0.58
15:O1:96:LYS:NZ	15:O1:130:GLU:OE1	2.37	0.58
26:F1:179:ASN:HB3	26:F1:186:ASN:HB3	1.85	0.58
29:K1:23:ALA:HB3	29:K1:67:PHE:HB2	1.84	0.58
31:P1:12:PHE:CE2	21:i3:1764:G:C5'	2.87	0.58
8:f2:105:TYR:CE1	8:f2:131:PHE:CE1	2.91	0.58
11:G2:139:SER:OG	21:i2:145:G:OP1	2.21	0.58
11:G2:219:GLU:HB2	11:G2:222:GLU:HB3	1.86	0.58
12:J2:153:SER:HA	12:J2:156:HIS:HD2	1.69	0.58
21:i2:315:C:N3	21:i2:336:A:C2	2.66	0.58
25:E2:34:GLY:HA3	25:E2:83:PRO:HG3	1.86	0.58
2:U3:19:ARG:CD	2:U3:119:ALA:O	2.23	0.58
8:f3:80:ARG:HH22	21:i3:1503:C:C1'	2.16	0.58
11:G3:180:VAL:HG22	21:i3:143:U:C5	2.39	0.58
12:J3:153:SER:HA	12:J3:156:HIS:HD2	1.69	0.58
15:O3:31:CYS:HA	15:O3:44:VAL:HA	1.85	0.58
21:i3:536:A:N6	21:i3:549:C:O4'	2.36	0.58
21:i3:1521:C:N4	34:S3:137:LYS:HE3	2.18	0.58
23:B3:87:ILE:HG23	23:B3:101:HIS:HB2	1.85	0.58
9:g4:21:ILE:HB	9:g4:290:ALA:HB2	1.85	0.58
11:G4:180:VAL:HG22	21:i4:143:U:C5	2.39	0.58
11:G4:215:LYS:O	11:G4:219:GLU:N	2.36	0.58
14:N4:84:LEU:CD2	14:N4:149:LEU:O	2.52	0.58
21:i4:964:A:N1	21:i4:1065:G:O2'	2.36	0.58
21:i4:1098:C:H2'	21:i4:1099:G:C8	2.39	0.58
22:A4:176:TRP:CD1	22:A4:199:PRO:HA	2.39	0.58
33:R4:5:ARG:HB2	33:R4:10:LYS:NZ	2.18	0.58
11:G5:180:VAL:HG22	21:i5:143:U:C5	2.39	0.58
14:N5:135:LEU:HB3	14:N5:136:PRO:CD	2.33	0.58
15:O5:96:LYS:NZ	15:O5:130:GLU:OE1	2.37	0.58
21:i5:1068:G:H4'	36:k5:15:ILE:HG23	1.85	0.58
21:i5:1069:U:H5'	36:k5:16:GLN:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1656:G:H2'	21:i5:1657:G:H8	1.69	0.58
22:A5:176:TRP:CD1	22:A5:199:PRO:HA	2.39	0.58
26:F5:179:ASN:HB3	26:F5:186:ASN:HB3	1.85	0.58
28:I5:43:ILE:HG12	28:I5:57:ALA:HA	1.86	0.58
33:R5:84:TYR:O	33:R5:87:GLU:HG2	2.03	0.58
6:c6:51:ARG:NH2	26:F6:61:PHE:HA	2.19	0.58
10:C6:145:LYS:HD2	21:i6:1348:G:C4'	2.33	0.58
21:i6:33:G:H1	21:i6:522:A:H2	1.52	0.58
21:i6:1777:G:C5	21:i6:1778:C:N3	2.72	0.58
21:i6:1780:G:C5	21:i6:1781:A:H8	2.21	0.58
22:A6:12:GLU:O	22:A6:14:ASP:N	2.37	0.58
36:k1:2:PHE:CD2	36:k1:174:LEU:HD22	2.38	0.58
36:k1:143:LEU:O	36:k1:169:TYR:CA	2.52	0.58
36:k3:170:LEU:CD2	36:k3:171:ASN:N	2.67	0.58
36:k6:22:ILE:CG1	36:k6:50:VAL:CG2	2.72	0.58
37:l4:131:VAL:HG12	37:l4:132:CYS:N	2.18	0.58
37:l5:127:TYR:N	37:l5:168:GLY:C	2.62	0.58
37:l5:148:PHE:CE2	37:l5:156:ALA:CB	2.85	0.58
37:l6:128:VAL:HG12	37:l6:129:THR:N	2.19	0.58
6:c1:51:ARG:NH2	26:F1:61:PHE:HA	2.19	0.58
12:J1:145:PRO:HD2	21:i1:522:A:H5''	1.86	0.58
14:N1:101:HIS:ND1	21:i1:1008:A:H1'	2.18	0.58
21:i1:1521:C:C6	34:S1:137:LYS:HA	2.38	0.58
22:A1:176:TRP:CD1	22:A1:199:PRO:HA	2.39	0.58
23:B1:87:ILE:HG23	23:B1:101:HIS:HB2	1.85	0.58
30:L1:61:PRO:HD3	30:L1:141:ASN:HD21	1.69	0.58
32:Q1:12:VAL:HG21	32:Q1:91:ALA:HA	1.86	0.58
21:i2:1235:G:H1	21:i2:1523:C:H42	1.51	0.58
21:i2:1777:G:C5	21:i2:1778:C:N3	2.72	0.58
22:A2:110:ASN:OD1	22:A2:111:GLN:N	2.35	0.58
12:J3:145:PRO:HD2	21:i3:522:A:H5''	1.86	0.58
12:J3:173:VAL:HG21	21:i3:561:A:H62	1.68	0.58
21:i3:33:G:H1	21:i3:522:A:H2	1.51	0.58
21:i3:830:A:OP2	21:i3:846:G:N2	2.37	0.58
21:i3:1208:A:H2'	21:i3:1209:A:H8	1.69	0.58
21:i3:1777:G:C5	21:i3:1778:C:N3	2.72	0.58
21:i3:1828:C:OP2	37:l3:125:LYS:NZ	2.34	0.58
21:i3:1828:C:P	37:l3:125:LYS:NZ	2.77	0.58
26:F3:188:TYR:O	26:F3:192:LYS:N	2.36	0.58
27:H3:20:GLU:O	27:H3:24:SER:N	2.36	0.58
33:R3:58:MET:O	33:R3:61:ILE:CG1	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X4:11:ARG:HH12	21:i4:400:C:P	2.27	0.58
15:O4:66:ARG:NH2	28:I5:125:LYS:HZ1	2.01	0.58
21:i4:187:G:N2	21:i4:213:G:C2	2.72	0.58
25:E4:18:TRP:HB3	25:E4:20:LEU:HG	1.86	0.58
25:E4:164:LEU:CD1	25:E4:165:GLU:H	2.15	0.58
26:F4:72:LEU:HD23	26:F4:151:ILE:HG23	1.86	0.58
32:Q4:12:VAL:HG21	32:Q4:91:ALA:HA	1.86	0.58
12:J5:65:GLU:HA	12:J5:70:ARG:HD3	1.86	0.58
12:J5:122:SER:HB3	21:i5:527:C:OP1	2.03	0.58
20:e5:39:ASN:CG	21:i5:552:G:P	2.87	0.58
20:e5:45:VAL:CG1	21:i5:535:G:C3'	2.79	0.58
21:i5:563:G:O6	21:i5:592:C:N4	2.37	0.58
21:i5:1098:C:H2'	21:i5:1099:G:C8	2.39	0.58
21:i5:1851:A:H5'	35:j5:1:MET:CE	2.34	0.58
21:i5:1853:C:N4	35:j5:5:TRP:CH2	2.67	0.58
25:E5:18:TRP:HB3	25:E5:20:LEU:HG	1.86	0.58
33:R5:5:ARG:HE	33:R5:53:TYR:HB2	1.68	0.58
10:C6:142:LYS:HD3	10:C6:154:ALA:CA	2.33	0.58
18:Z6:46:ASN:HB3	18:Z6:80:ARG:CA	2.16	0.58
20:e6:47:PRO:O	20:e6:48:THR:HG23	2.04	0.58
21:i6:318:A:C2	21:i6:333:G:N2	2.72	0.58
21:i6:536:A:N6	21:i6:549:C:O4'	2.36	0.58
21:i6:830:A:OP2	21:i6:846:G:N2	2.37	0.58
21:i6:1098:C:H2'	21:i6:1099:G:C8	2.39	0.58
23:B6:87:ILE:HG23	23:B6:101:HIS:HB2	1.86	0.58
28:I6:10:LYS:HE2	30:L6:136:LYS:HE3	1.86	0.58
32:Q6:4:LYS:NZ	32:Q6:99:TYR:HD1	2.00	0.58
33:R6:84:TYR:O	33:R6:87:GLU:HG2	2.03	0.58
36:k1:86:HIS:CG	36:k1:141:HIS:CB	2.81	0.58
36:k2:83:ARG:HG3	36:k2:175:TRP:CE3	2.38	0.58
36:k5:92:LEU:CD2	36:k5:131:ILE:CB	2.73	0.58
3:V1:80:SER:HB2	22:A1:5:LEU:HD21	1.84	0.58
12:J1:65:GLU:HA	12:J1:70:ARG:HD3	1.86	0.58
21:i1:1235:G:H1	21:i1:1523:C:H42	1.51	0.58
21:i1:1702:G:O5'	21:i1:1702:G:H8	1.86	0.58
34:S1:108:ARG:NH2	21:i3:1773:C:C5'	2.67	0.58
8:f2:104:LYS:HG3	8:f2:104:LYS:O	2.02	0.58
8:f2:105:TYR:CE1	8:f2:131:PHE:CB	2.85	0.58
12:J2:145:PRO:HD2	21:i2:522:A:H5''	1.86	0.58
13:M2:40:LYS:HZ1	21:i2:1310:U:C5'	1.87	0.58
15:O2:67:ASP:O	15:O2:69:SER:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e2:35:ARG:NH1	21:i2:526:A:C5'	2.62	0.58
21:i2:178:C:O5'	21:i2:313:A:N6	2.37	0.58
21:i2:1852:C:H5	35:j2:5:TRP:CG	2.21	0.58
23:B2:175:GLU:O	23:B2:178:THR:OG1	2.19	0.58
27:H2:20:GLU:O	27:H2:24:SER:N	2.36	0.58
17:Y3:17:LEU:HD22	25:E3:69:PHE:HE1	1.67	0.58
21:i3:130:G:C5'	21:i3:214:U:O4	2.51	0.58
25:E3:229:GLY:H	25:E3:235:TRP:HB2	1.69	0.58
26:F3:72:LEU:HD23	26:F3:151:ILE:HG23	1.86	0.58
4:X4:28:LYS:HE3	4:X4:32:LEU:HD13	1.85	0.58
21:i4:692:G:H3'	21:i4:693:A:H8	1.68	0.58
21:i4:1109:C:O2'	21:i4:1110:G:O4'	2.21	0.58
25:E4:229:GLY:H	25:E4:235:TRP:HB2	1.69	0.58
26:F4:17:ILE:HG23	26:F4:18:LYS:H	1.69	0.58
31:P4:121:ILE:HG13	31:P4:123:TYR:CG	2.38	0.58
34:S4:85:ASN:HD22	34:S4:98:VAL:HB	1.68	0.58
9:g5:34:ALA:HB1	9:g5:66:VAL:HG11	1.85	0.58
10:C5:65:LYS:CB	10:C5:279:ARG:CB	2.72	0.58
14:N5:17:PRO:O	14:N5:20:ARG:NH1	2.30	0.58
21:i5:1328:G:H1	21:i5:1501:C:H42	1.51	0.58
21:i5:1702:G:H8	21:i5:1702:G:O5'	1.87	0.58
21:i5:1777:G:C5	21:i5:1778:C:N3	2.72	0.58
6:c6:13:ARG:HD3	6:c6:35:MET:HB2	1.84	0.58
13:M6:111:VAL:CG1	13:M6:114:TYR:HE1	2.08	0.58
21:i6:178:C:O5'	21:i6:313:A:N6	2.37	0.58
21:i6:1208:A:C2	21:i6:1209:A:C5	2.92	0.58
21:i6:1521:C:C6	34:S6:137:LYS:HA	2.38	0.58
21:i6:1844:U:C4	35:j6:4:LYS:HD2	2.38	0.58
32:Q6:4:LYS:NZ	32:Q6:99:TYR:CD1	2.72	0.58
36:k1:82:LEU:HD22	36:k1:142:ALA:O	2.03	0.58
36:k1:145:VAL:O	36:k1:167:ILE:CA	2.50	0.58
36:k4:134:ILE:HD11	36:k4:164:ILE:HG21	1.86	0.58
36:k6:94:HIS:CG	36:k6:135:MET:HG3	2.37	0.58
37:l5:131:VAL:HG12	37:l5:132:CYS:N	2.18	0.58
6:c1:13:ARG:HD3	6:c1:35:MET:HB2	1.84	0.58
6:c1:13:ARG:NH1	6:c1:33:GLU:OE1	2.33	0.58
9:g1:61:GLY:O	9:g1:88:ARG:NH2	2.37	0.58
16:W1:94:LEU:HD11	16:W1:102:ILE:HG13	1.86	0.58
21:i1:879:C:N3	21:i1:880:G:N1	2.51	0.58
21:i1:1377:U:H2'	22:A1:105:PRO:HG2	1.85	0.58
26:F1:72:LEU:HD23	26:F1:151:ILE:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P1:119:PHE:HE1	34:S1:119:ALA:HB1	1.46	0.58
33:R1:52:GLY:O	33:R1:55:THR:OG1	2.19	0.58
19:b2:65:GLN:HB2	19:b2:72:ARG:HB3	1.85	0.58
21:i2:33:G:H1	21:i2:522:A:H2	1.52	0.58
21:i2:1284:A:H4'	21:i2:1285:G:H2'	1.85	0.58
30:L2:121:GLN:HB2	30:L2:153:LYS:CD	2.26	0.58
4:X3:109:GLY:O	4:X3:119:ARG:NH1	2.36	0.58
9:g3:300:ALA:HB3	9:g3:310:TRP:HZ3	1.69	0.58
10:C3:65:LYS:CB	10:C3:279:ARG:CB	2.72	0.58
18:Z3:75:GLU:O	21:i6:193:C:H5'	2.03	0.58
21:i3:1098:C:H2'	21:i3:1099:G:C8	2.39	0.58
21:i3:1109:C:O2'	21:i3:1110:G:O4'	2.21	0.58
21:i3:1752:C:OP1	21:i3:1782:G:O6	2.22	0.58
24:D3:76:ARG:O	24:D3:76:ARG:NH1	2.37	0.58
32:Q3:4:LYS:HZ2	32:Q3:99:TYR:HD1	1.46	0.58
33:R3:5:ARG:HB2	33:R3:10:LYS:NZ	2.18	0.58
33:R3:58:MET:HA	33:R3:61:ILE:CG1	2.33	0.58
20:e4:47:PRO:O	20:e4:48:THR:HG23	2.04	0.58
21:i4:211:G:N1	21:i4:212:C:C2	2.72	0.58
21:i4:1622:U:H3'	21:i4:1623:A:H4'	1.86	0.58
22:A4:12:GLU:O	22:A4:14:ASP:N	2.36	0.58
26:F4:137:GLN:CB	26:F4:204:ARG:CA	2.80	0.58
16:W5:15:ASN:HD21	16:W5:72:CYS:H	1.50	0.58
21:i5:361:U:O4'	21:i5:1175:G:N2	2.36	0.58
21:i5:536:A:N6	21:i5:549:C:O4'	2.36	0.58
21:i5:1717:C:O3'	35:j5:21:ARG:HG2	2.02	0.58
21:i5:1852:C:H6	35:j5:5:TRP:CD1	2.18	0.58
9:g6:61:GLY:O	9:g6:88:ARG:NH2	2.37	0.58
21:i6:127:C:H3'	21:i6:184:G:H22	1.69	0.58
21:i6:207:G:C2	21:i6:208:G:H1'	2.39	0.58
21:i6:563:G:O6	21:i6:592:C:N4	2.37	0.58
21:i6:735:C:H3'	21:i6:735:C:H6	1.67	0.58
26:F6:188:TYR:O	26:F6:192:LYS:N	2.36	0.58
36:k1:174:LEU:O	36:k1:175:TRP:C	2.47	0.58
36:k3:145:VAL:C	36:k3:167:ILE:HG13	2.29	0.58
37:l2:127:TYR:N	37:l2:168:GLY:C	2.62	0.58
37:l6:131:VAL:HG12	37:l6:132:CYS:N	2.18	0.58
9:g1:242:SER:HB2	9:g1:247:TRP:HB2	1.86	0.57
21:i1:184:G:O5'	21:i1:185:G:OP2	2.22	0.57
21:i1:563:G:O6	21:i1:592:C:N4	2.37	0.57
21:i1:798:A:H4'	27:H1:109:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:97:LEU:HD22	23:B1:232:HIS:NE2	2.19	0.57
26:F1:188:TYR:O	26:F1:192:LYS:N	2.36	0.57
33:R1:100:PRO:HA	33:R1:117:LEU:HD12	1.85	0.57
16:W2:94:LEU:HD11	16:W2:102:ILE:HG13	1.86	0.57
21:i2:1844:U:C5	35:j2:4:LYS:HD2	2.39	0.57
24:D2:11:PHE:O	24:D2:15:GLY:N	2.31	0.57
30:L2:61:PRO:HD3	30:L2:141:ASN:HD21	1.69	0.57
33:R2:5:ARG:HE	33:R2:53:TYR:HB2	1.69	0.57
4:X3:61:GLN:NE2	21:i3:1824:A:H8	1.97	0.57
4:X3:115:ILE:HG22	4:X3:117:GLY:H	1.69	0.57
14:N3:84:LEU:CD2	14:N3:149:LEU:O	2.52	0.57
15:O3:96:LYS:NZ	15:O3:130:GLU:OE1	2.37	0.57
20:e3:47:PRO:O	20:e3:48:THR:HG23	2.04	0.57
26:F3:136:ARG:O	26:F3:203:ASN:ND2	2.36	0.57
28:I3:43:ILE:HG12	28:I3:57:ALA:HA	1.85	0.57
29:K3:80:ARG:HH21	29:K3:87:PRO:HA	1.69	0.57
16:W4:94:LEU:HD11	16:W4:102:ILE:HG13	1.86	0.57
20:e4:8:ARG:NH1	20:e4:11:LYS:HD2	2.17	0.57
21:i4:879:C:N3	21:i4:880:G:N1	2.51	0.57
26:F4:184:SER:OG	21:i5:202:G:P	2.62	0.57
29:K4:80:ARG:HH21	29:K4:87:PRO:HA	1.69	0.57
34:S4:80:PRO:HB2	34:S4:83:PHE:HD2	1.69	0.57
8:f5:95:ARG:CD	21:i5:1289:U:C5'	2.76	0.57
9:g5:300:ALA:HB3	9:g5:310:TRP:HZ3	1.69	0.57
16:W5:94:LEU:HD11	16:W5:102:ILE:HG13	1.86	0.57
21:i5:213:G:H2'	21:i5:214:U:H5'	1.85	0.57
21:i5:455:A:H4'	21:i5:1736:G:C5'	2.34	0.57
21:i5:1268:C:H42	21:i5:1514:G:H22	1.51	0.57
23:B5:122:GLU:HG2	23:B5:140:VAL:HG12	1.86	0.57
25:E5:11:ARG:NH2	25:E5:24:THR:O	2.37	0.57
29:K5:57:TYR:O	29:K5:72:THR:OG1	2.19	0.57
11:G6:180:VAL:HG22	21:i6:143:U:C5	2.39	0.57
12:J6:153:SER:HA	12:J6:156:HIS:HD2	1.69	0.57
13:M6:36:ARG:HH12	21:i6:1310:U:H5	1.20	0.57
21:i6:1033:G:N1	21:i6:1080:A:O2'	2.32	0.57
21:i6:1284:A:H4'	21:i6:1285:G:H2'	1.85	0.57
21:i6:1328:G:H1	21:i6:1501:C:H42	1.51	0.57
21:i6:1351:G:O6	21:i6:1352:G:C6	2.53	0.57
21:i6:1679:A:C8	26:F6:60:ARG:HB3	2.38	0.57
22:A6:43:SER:HB2	33:R6:123:THR:HG22	1.86	0.57
33:R6:5:ARG:HB2	33:R6:10:LYS:NZ	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R6:79:GLU:HG2	33:R6:80:ARG:N	2.19	0.57
35:j6:5:TRP:HA	35:j6:5:TRP:HE3	1.68	0.57
36:k3:22:ILE:HG12	36:k3:50:VAL:CG2	2.18	0.57
36:k3:36:ILE:CA	36:k3:91:ILE:HG22	2.34	0.57
36:k4:96:GLN:CD	36:k4:122:LYS:HD3	2.27	0.57
36:k5:33:PHE:HE1	36:k5:131:ILE:CD1	2.12	0.57
36:k6:2:PHE:HB3	36:k6:168:HIS:HE1	1.67	0.57
37:l1:127:TYR:N	37:l1:168:GLY:C	2.61	0.57
37:l6:127:TYR:N	37:l6:168:GLY:C	2.62	0.57
4:X1:61:GLN:HB2	21:i1:1824:A:N7	2.19	0.57
8:f1:80:ARG:NH2	21:i1:1503:C:O2	2.25	0.57
9:g1:21:ILE:HB	9:g1:290:ALA:HB2	1.85	0.57
12:J1:153:SER:HA	12:J1:156:HIS:HD2	1.69	0.57
21:i1:1348:G:H22	21:i1:1381:G:H22	1.53	0.57
21:i1:1374:C:O2'	21:i1:1464:C:O2	2.19	0.57
21:i1:1777:G:H2'	21:i1:1778:C:C2	2.39	0.57
24:D1:42:THR:OG1	24:D1:45:ARG:O	2.20	0.57
35:j1:5:TRP:HA	35:j1:5:TRP:HE3	1.68	0.57
8:f2:105:TYR:CE2	8:f2:106:TYR:CE2	2.91	0.57
11:G2:180:VAL:HG22	21:i2:143:U:C5	2.39	0.57
11:G2:230:LYS:O	11:G2:234:LEU:N	2.37	0.57
14:N2:84:LEU:CD2	14:N2:149:LEU:O	2.52	0.57
14:N2:101:HIS:ND1	21:i2:1008:A:H1'	2.18	0.57
21:i2:500:A:H3'	21:i2:501:C:H6	1.70	0.57
21:i2:563:G:O6	21:i2:592:C:N4	2.37	0.57
21:i2:1622:U:H3'	21:i2:1623:A:H4'	1.86	0.57
26:F2:72:LEU:HD23	26:F2:151:ILE:HG23	1.86	0.57
32:Q2:12:VAL:HG21	32:Q2:91:ALA:HA	1.86	0.57
9:g3:147:HIS:CE1	9:g3:173:LEU:HB2	2.30	0.57
30:L3:61:PRO:HD3	30:L3:141:ASN:HD21	1.69	0.57
33:R3:65:PRO:HB2	33:R3:74:GLN:NE2	2.19	0.57
34:S3:80:PRO:HB2	34:S3:83:PHE:HD2	1.69	0.57
11:G4:187:HIS:CE1	21:i4:317:C:H41	2.21	0.57
11:G4:219:GLU:HB2	11:G4:222:GLU:HB3	1.86	0.57
21:i4:1069:U:OP2	36:k4:18:LYS:NZ	2.27	0.57
21:i4:1521:C:C6	34:S4:137:LYS:HA	2.39	0.57
25:E4:11:ARG:NH2	25:E4:24:THR:O	2.37	0.57
4:X5:11:ARG:HH12	21:i5:400:C:P	2.27	0.57
8:f5:95:ARG:HD2	21:i5:1289:U:H6	1.69	0.57
8:f5:105:TYR:CE2	8:f5:106:TYR:CE2	2.91	0.57
9:g5:158:PRO:HD3	9:g5:200:VAL:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:66:GLY:HA2	21:i5:1745:A:C8	2.38	0.57
21:i5:798:A:H4'	27:H5:109:ARG:HG2	1.86	0.57
21:i5:1175:G:OP2	35:j5:21:ARG:NH1	2.37	0.57
26:F5:72:LEU:HD23	26:F5:151:ILE:HG23	1.86	0.57
32:Q5:12:VAL:HG21	32:Q5:91:ALA:HA	1.86	0.57
5:a6:40:VAL:HG22	5:a6:69:VAL:O	2.05	0.57
21:i6:1208:A:N1	21:i6:1209:A:C6	2.71	0.57
21:i6:1777:G:H2'	21:i6:1778:C:C2	2.39	0.57
22:A6:158:ASP:OD1	22:A6:159:ILE:N	2.35	0.57
25:E6:34:GLY:HA3	25:E6:83:PRO:HG3	1.86	0.57
25:E6:189:LEU:O	25:E6:245:ARG:NH2	2.37	0.57
33:R6:100:PRO:HA	33:R6:117:LEU:HD12	1.85	0.57
34:S6:85:ASN:HD22	34:S6:98:VAL:HB	1.68	0.57
36:k3:170:LEU:HD23	36:k3:171:ASN:CB	2.34	0.57
36:k4:169:TYR:CE1	36:k4:172:ASP:HB3	2.39	0.57
37:l1:128:VAL:HG11	37:l1:165:ILE:HA	1.86	0.57
37:l4:127:TYR:N	37:l4:168:GLY:C	2.62	0.57
37:l4:128:VAL:HG11	37:l4:165:ILE:HA	1.85	0.57
37:l4:178:ILE:CD1	37:l4:190:ILE:HG22	2.17	0.57
37:l5:128:VAL:HG12	37:l5:129:THR:N	2.18	0.57
5:a1:40:VAL:HG22	5:a1:69:VAL:O	2.05	0.57
8:f1:105:TYR:CE1	8:f1:131:PHE:CE1	2.92	0.57
10:C1:270:THR:HG22	22:A1:69:GLU:HG3	1.86	0.57
11:G1:142:ARG:CD	11:G1:147:LEU:HD12	2.32	0.57
21:i1:1521:C:N4	34:S1:137:LYS:HE3	2.19	0.57
22:A1:12:GLU:O	22:A1:14:ASP:N	2.37	0.57
30:L1:59:LYS:HG2	30:L1:134:LEU:HD11	1.87	0.57
32:Q1:4:LYS:NZ	32:Q1:99:TYR:CD1	2.72	0.57
17:Y2:109:GLU:HG2	17:Y2:113:ARG:CZ	2.29	0.57
20:e2:31:ARG:NH1	21:i2:525:A:C4'	2.67	0.57
21:i2:1521:C:C6	34:S2:137:LYS:HA	2.38	0.57
25:E2:185:GLY:H	25:E2:189:LEU:HB3	1.67	0.57
32:Q2:4:LYS:NZ	32:Q2:99:TYR:CD1	2.72	0.57
8:f3:80:ARG:HH22	21:i3:1503:C:H1'	1.67	0.57
21:i3:178:C:O5'	21:i3:313:A:N6	2.37	0.57
21:i3:207:G:C2	21:i3:208:G:H1'	2.39	0.57
26:F3:137:GLN:CB	26:F3:204:ARG:N	2.68	0.57
9:g4:114:SER:OG	9:g4:116:ASP:OD1	2.17	0.57
21:i4:563:G:O6	21:i4:592:C:N4	2.37	0.57
32:Q4:4:LYS:NZ	32:Q4:99:TYR:CD1	2.72	0.57
33:R4:7:LYS:O	33:R4:11:LYS:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g5:21:ILE:HB	9:g5:290:ALA:HB2	1.86	0.57
11:G5:65:GLN:NE2	21:i5:1746:U:C4'	2.67	0.57
21:i5:830:A:OP2	21:i5:846:G:N2	2.37	0.57
21:i5:1751:C:N4	21:i5:1783:C:C2	2.64	0.57
23:B5:87:ILE:HG23	23:B5:101:HIS:HB2	1.85	0.57
26:F5:188:TYR:O	26:F5:192:LYS:N	2.36	0.57
30:L5:61:PRO:HD3	30:L5:141:ASN:HD21	1.69	0.57
30:L5:124:ASP:HB3	30:L5:147:LYS:HG2	1.83	0.57
33:R5:86:PRO:O	33:R5:89:SER:OG	2.16	0.57
1:T6:38:LYS:NZ	21:i6:1628:C:OP1	2.35	0.57
8:f6:105:TYR:CD2	8:f6:106:TYR:CZ	2.90	0.57
9:g6:300:ALA:HB3	9:g6:310:TRP:HZ3	1.69	0.57
12:J6:65:GLU:HA	12:J6:70:ARG:HD3	1.86	0.57
14:N6:84:LEU:CD2	14:N6:149:LEU:O	2.52	0.57
21:i6:1109:C:O2'	21:i6:1110:G:O4'	2.21	0.57
22:A6:176:TRP:CD1	22:A6:199:PRO:HA	2.39	0.57
23:B6:65:ARG:H	23:B6:88:THR:HG22	1.67	0.57
23:B6:122:GLU:HG2	23:B6:140:VAL:HG12	1.86	0.57
25:E6:18:TRP:HB3	25:E6:20:LEU:HG	1.86	0.57
26:F6:17:ILE:HG23	26:F6:18:LYS:H	1.69	0.57
26:F6:115:ALA:O	26:F6:119:SER:OG	2.19	0.57
29:K6:58:VAL:HA	29:K6:71:LEU:HA	1.85	0.57
30:L6:40:ILE:HG12	30:L6:68:ILE:HD13	1.87	0.57
32:Q6:67:ASP:OD1	32:Q6:68:ILE:N	2.37	0.57
36:k1:96:GLN:CD	36:k1:122:LYS:HB2	2.29	0.57
36:k2:82:LEU:HD22	36:k2:142:ALA:O	2.04	0.57
36:k3:122:LYS:CE	36:k3:124:TYR:OH	2.41	0.57
36:k3:145:VAL:HB	36:k3:167:ILE:CG2	2.34	0.57
36:k6:96:GLN:CD	36:k6:122:LYS:HB2	2.29	0.57
37:l5:128:VAL:HG13	37:l5:166:ILE:H	1.20	0.57
37:l6:115:VAL:C	37:l6:116:THR:HG1	2.06	0.57
2:U1:22:ILE:N	2:U1:89:ILE:O	2.33	0.57
15:O1:66:ARG:HH22	28:I3:125:LYS:NZ	1.75	0.57
21:i1:1268:C:H42	21:i1:1514:G:H22	1.52	0.57
21:i1:1412:C:O2'	21:i1:1413:G:N7	2.34	0.57
25:E1:189:LEU:O	25:E1:245:ARG:NH2	2.38	0.57
2:U2:18:HIS:HB3	2:U2:118:ASP:H	1.68	0.57
12:J2:125:HIS:CB	21:i2:526:A:HO2'	1.89	0.57
13:M2:40:LYS:HZ3	21:i2:1310:U:H5'	1.66	0.57
16:W2:40:VAL:O	16:W2:44:HIS:ND1	2.30	0.57
21:i2:525:A:O5'	21:i2:525:A:H8	1.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1109:C:O2'	21:i2:1110:G:O4'	2.21	0.57
22:A2:12:GLU:O	22:A2:14:ASP:N	2.37	0.57
23:B2:97:LEU:HD22	23:B2:232:HIS:NE2	2.20	0.57
23:B2:189:ILE:HB	23:B2:190:PRO:HD3	1.87	0.57
25:E2:18:TRP:HB3	25:E2:20:LEU:HG	1.86	0.57
26:F2:88:MET:HE3	26:F2:91:ARG:NH2	2.20	0.57
26:F2:136:ARG:O	26:F2:203:ASN:ND2	2.36	0.57
32:Q2:67:ASP:OD1	32:Q2:68:ILE:N	2.37	0.57
7:d3:43:PHE:O	7:d3:47:ALA:N	2.38	0.57
8:f3:95:ARG:HD2	21:i3:1289:U:H6	1.70	0.57
8:f3:105:TYR:CE1	8:f3:131:PHE:CE1	2.91	0.57
11:G3:231:ARG:HA	11:G3:234:LEU:HB2	1.86	0.57
12:J3:130:ILE:HD13	12:J3:145:PRO:HA	1.87	0.57
14:N3:133:ARG:CD	30:L3:152:LYS:CB	2.82	0.57
25:E3:189:LEU:O	25:E3:245:ARG:NH2	2.37	0.57
32:Q3:12:VAL:HG21	32:Q3:91:ALA:HA	1.86	0.57
34:S3:85:ASN:HD22	34:S3:98:VAL:HB	1.68	0.57
12:J4:130:ILE:HD13	12:J4:145:PRO:HA	1.87	0.57
15:O4:96:LYS:NZ	15:O4:130:GLU:OE1	2.37	0.57
16:W4:76:SER:OG	21:i4:1157:G:O3'	2.22	0.57
16:W4:112:ASP:OD1	16:W4:113:HIS:N	2.38	0.57
21:i4:1616:U:H3	21:i4:1620:A:H2	1.51	0.57
25:E4:34:GLY:HA3	25:E4:83:PRO:HG3	1.86	0.57
25:E4:189:LEU:O	25:E4:245:ARG:NH2	2.37	0.57
25:E4:238:LEU:HD11	25:E4:242:LYS:HG2	1.86	0.57
26:F4:136:ARG:C	26:F4:203:ASN:HD22	2.11	0.57
33:R4:79:GLU:HG2	33:R4:80:ARG:N	2.19	0.57
20:e5:39:ASN:ND2	21:i5:552:G:OP1	2.36	0.57
21:i5:178:C:O5'	21:i5:313:A:N6	2.37	0.57
21:i5:1284:A:H4'	21:i5:1285:G:H2'	1.85	0.57
21:i5:1869:A:H1'	23:B5:115:LYS:HG2	1.87	0.57
31:P5:96:VAL:CG2	31:P5:116:LEU:HD13	1.86	0.57
33:R5:5:ARG:HB2	33:R5:10:LYS:NZ	2.18	0.57
9:g6:158:PRO:HD3	9:g6:200:VAL:HG21	1.86	0.57
9:g6:242:SER:HB2	9:g6:247:TRP:HB2	1.86	0.57
21:i6:798:A:H4'	27:H6:109:ARG:HG2	1.86	0.57
21:i6:879:C:N3	21:i6:880:G:N1	2.51	0.57
21:i6:1069:U:C5'	36:k6:16:GLN:HB3	2.34	0.57
36:k2:174:LEU:O	36:k2:175:TRP:C	2.47	0.57
36:k5:145:VAL:C	36:k5:167:ILE:HB	2.29	0.57
37:l3:127:TYR:N	37:l3:168:GLY:C	2.61	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I3:182:TRP:CB	37:I3:183:PRO:HA	2.07	0.57
2:U1:49:LYS:O	2:U1:51:LYS:N	2.36	0.57
12:J1:130:ILE:HD13	12:J1:145:PRO:HA	1.86	0.57
21:i1:178:C:O5'	21:i1:313:A:N6	2.37	0.57
21:i1:1656:G:H2'	21:i1:1657:G:H8	1.69	0.57
29:K1:80:ARG:HH21	29:K1:87:PRO:HA	1.69	0.57
30:L1:125:ILE:CG2	30:L1:146:THR:OG1	2.52	0.57
32:Q1:67:ASP:OD1	32:Q1:68:ILE:N	2.38	0.57
4:X2:55:VAL:HG13	20:e2:5:SER:CB	2.34	0.57
8:f2:95:ARG:HD2	21:i2:1289:U:H6	1.70	0.57
9:g2:207:CYS:SG	9:g2:208:ALA:N	2.77	0.57
15:O2:31:CYS:HA	15:O2:44:VAL:HA	1.85	0.57
16:W2:76:SER:OG	21:i2:1157:G:O3'	2.22	0.57
18:Z2:85:ARG:HH21	18:Z2:85:ARG:CG	2.14	0.57
21:i2:207:G:C2	21:i2:208:G:H1'	2.39	0.57
21:i2:1058:A:N6	21:i2:1830:U:OP1	2.32	0.57
21:i2:1568:C:O2'	21:i2:1569:A:O5'	2.22	0.57
21:i2:1785:C:O2'	21:i2:1786:U:O5'	2.16	0.57
25:E2:231:GLY:O	25:E2:233:LYS:N	2.37	0.57
30:L2:59:LYS:HG2	30:L2:134:LEU:HD11	1.87	0.57
31:P2:121:ILE:HG13	31:P2:123:TYR:CG	2.38	0.57
4:X3:11:ARG:HH12	21:i3:400:C:P	2.27	0.57
13:M3:27:ILE:CG2	29:K3:84:HIS:NE2	2.64	0.57
14:N3:101:HIS:ND1	21:i3:1008:A:H1'	2.18	0.57
16:W3:94:LEU:HD11	16:W3:102:ILE:HG13	1.86	0.57
21:i3:500:A:H3'	21:i3:501:C:H6	1.70	0.57
21:i3:614:C:O2'	21:i3:626:G:N2	2.35	0.57
21:i3:1284:A:H4'	21:i3:1285:G:H2'	1.85	0.57
22:A3:12:GLU:O	22:A3:14:ASP:N	2.37	0.57
24:D3:64:ARG:CD	29:K3:95:ARG:HH22	2.13	0.57
30:L3:59:LYS:HG2	30:L3:134:LEU:HD11	1.87	0.57
7:d4:43:PHE:O	7:d4:47:ALA:N	2.38	0.57
19:b4:43:ILE:O	19:b4:43:ILE:HG13	2.05	0.57
21:i4:178:C:O5'	21:i4:313:A:N6	2.37	0.57
21:i4:1297:U:H2'	21:i4:1298:G:H2'	1.86	0.57
21:i4:1374:C:O2'	21:i4:1464:C:O2	2.19	0.57
21:i4:1521:C:N4	34:S4:137:LYS:HE3	2.19	0.57
22:A4:43:SER:HB2	33:R4:123:THR:HG22	1.87	0.57
23:B4:87:ILE:HG23	23:B4:101:HIS:HB2	1.86	0.57
24:D4:76:ARG:O	24:D4:76:ARG:NH1	2.36	0.57
31:P4:111:MET:O	31:P4:111:MET:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:219:GLU:HB2	11:G5:222:GLU:HB3	1.86	0.57
21:i5:1171:G:N2	21:i5:1188:A:OP2	2.36	0.57
21:i5:1174:U:H5''	35:j5:21:ARG:NH1	2.18	0.57
30:L5:59:LYS:HG2	30:L5:134:LEU:HD11	1.86	0.57
33:R5:7:LYS:O	33:R5:11:LYS:N	2.35	0.57
33:R5:79:GLU:HG2	33:R5:80:ARG:N	2.19	0.57
35:j5:5:TRP:CE3	35:j5:5:TRP:HA	2.38	0.57
8:f6:96:LYS:HZ3	21:i6:1306:U:H3'	1.68	0.57
14:N6:101:HIS:ND1	21:i6:1008:A:H1'	2.18	0.57
21:i6:1521:C:N4	34:S6:137:LYS:HE3	2.19	0.57
23:B6:129:THR:HG21	23:B6:133:TYR:HB2	1.87	0.57
23:B6:175:GLU:O	23:B6:178:THR:OG1	2.19	0.57
25:E6:11:ARG:NH2	25:E6:24:THR:O	2.37	0.57
25:E6:231:GLY:O	25:E6:233:LYS:N	2.37	0.57
36:k5:147:VAL:HG12	36:k5:167:ILE:HD11	1.87	0.57
36:k6:174:LEU:O	36:k6:175:TRP:C	2.47	0.57
2:U1:18:HIS:HB3	2:U1:118:ASP:H	1.68	0.57
9:g1:34:ALA:HB1	9:g1:66:VAL:HG11	1.84	0.57
11:G1:66:GLY:N	11:G1:100:CYS:SG	2.78	0.57
16:W1:15:ASN:HD21	16:W1:72:CYS:H	1.51	0.57
21:i1:207:G:C2	21:i1:208:G:H1'	2.39	0.57
21:i1:1297:U:H2'	21:i1:1298:G:H2'	1.87	0.57
21:i1:1718:G:O2'	21:i1:1815:A:N6	2.38	0.57
21:i1:1829:G:P	37:l1:126:LYS:HE3	2.43	0.57
21:i1:1842:C:C2'	35:j1:4:LYS:HZ3	2.18	0.57
21:i1:1869:A:H1'	23:B1:115:LYS:HG2	1.87	0.57
26:F1:136:ARG:O	26:F1:203:ASN:HB2	2.04	0.57
26:F1:185:SER:O	26:F1:191:LYS:NZ	2.33	0.57
27:H1:12:ASN:OD1	27:H1:14:GLU:HG2	2.05	0.57
31:P1:111:MET:HG3	31:P1:111:MET:O	2.04	0.57
7:d2:43:PHE:O	7:d2:47:ALA:N	2.38	0.57
9:g2:158:PRO:HD3	9:g2:200:VAL:HG21	1.86	0.57
10:C2:145:LYS:CD	21:i2:1348:G:C5'	2.77	0.57
11:G2:189:ARG:CZ	21:i2:330:G:N7	2.67	0.57
12:J2:130:ILE:HD13	12:J2:145:PRO:HA	1.87	0.57
21:i2:691:G:H1'	27:H2:182:GLY:HA3	0.76	0.57
26:F2:17:ILE:HG23	26:F2:18:LYS:H	1.69	0.57
26:F2:136:ARG:O	26:F2:203:ASN:HB2	2.05	0.57
31:P2:133:ILE:HG22	31:P2:134:GLY:H	1.70	0.57
2:U3:18:HIS:CB	2:U3:118:ASP:H	2.18	0.57
2:U3:20:ILE:N	2:U3:91:LEU:O	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b3:54:VAL:H	19:b3:62:VAL:HG23	1.70	0.57
20:e3:25:LYS:HD2	21:i3:553:U:O3'	2.01	0.57
22:A3:43:SER:HB2	33:R3:123:THR:HG22	1.86	0.57
25:E3:231:GLY:O	25:E3:233:LYS:N	2.38	0.57
32:Q3:4:LYS:NZ	32:Q3:99:TYR:CD1	2.72	0.57
33:R3:52:GLY:O	33:R3:55:THR:OG1	2.20	0.57
2:U4:18:HIS:CB	2:U4:118:ASP:H	2.17	0.57
4:X4:115:ILE:HG22	4:X4:117:GLY:H	1.69	0.57
8:f4:95:ARG:HD2	21:i4:1289:U:H6	1.69	0.57
9:g4:207:CYS:SG	9:g4:208:ALA:N	2.77	0.57
12:J4:127:ARG:NH2	21:i4:523:A:OP2	2.36	0.57
14:N4:133:ARG:NH2	30:L4:154:GLN:CG	2.68	0.57
21:i4:207:G:C2	21:i4:208:G:H1'	2.39	0.57
21:i4:1171:G:N2	21:i4:1188:A:OP2	2.36	0.57
21:i4:1568:C:O2'	21:i4:1569:A:O5'	2.22	0.57
23:B4:34:LYS:NZ	23:B4:95:ASN:OD1	2.28	0.57
23:B4:97:LEU:HD22	23:B4:232:HIS:NE2	2.20	0.57
5:a5:40:VAL:HG22	5:a5:69:VAL:O	2.05	0.57
9:g5:61:GLY:O	9:g5:88:ARG:NH2	2.38	0.57
9:g5:82:SER:OG	9:g5:84:ASP:OD1	2.21	0.57
11:G5:66:GLY:N	11:G5:100:CYS:SG	2.78	0.57
14:N5:150:VAL:CG1	14:N5:151:ALA:H	2.14	0.57
19:b5:65:GLN:HB2	19:b5:72:ARG:HB3	1.85	0.57
21:i5:1208:A:O2'	21:i5:1835:A:N7	2.38	0.57
21:i5:1521:C:C6	34:S5:137:LYS:HA	2.39	0.57
21:i5:1777:G:H2'	21:i5:1778:C:C2	2.39	0.57
25:E5:34:GLY:HA3	25:E5:83:PRO:HG3	1.86	0.57
35:j5:5:TRP:HA	35:j5:5:TRP:HE3	1.68	0.57
2:U6:18:HIS:CB	2:U6:118:ASP:H	2.18	0.57
4:X6:28:LYS:HE3	4:X6:32:LEU:HD13	1.85	0.57
10:C6:270:THR:HG22	22:A6:69:GLU:HG3	1.87	0.57
20:e6:46:VAL:O	20:e6:46:VAL:HG13	2.04	0.57
21:i6:500:A:H3'	21:i6:501:C:H6	1.69	0.57
21:i6:1616:U:H3	21:i6:1620:A:H2	1.51	0.57
26:F6:72:LEU:HD23	26:F6:151:ILE:HG23	1.86	0.57
33:R6:91:LEU:O	33:R6:91:LEU:HG	2.04	0.57
36:k3:82:LEU:CD1	36:k3:169:TYR:C	2.78	0.57
36:k5:14:CYS:HG	36:k5:180:TYR:HH	1.53	0.57
37:l4:128:VAL:HG12	37:l4:129:THR:N	2.19	0.57
37:l5:128:VAL:HG11	37:l5:165:ILE:HA	1.86	0.57
9:g1:300:ALA:HB3	9:g1:310:TRP:HZ3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G1:219:GLU:HB2	11:G1:222:GLU:HB3	1.86	0.57
20:e1:31:ARG:NH1	21:i1:525:A:O2'	2.37	0.57
21:i1:969:U:P	21:i1:971:G:H5''	2.42	0.57
22:A1:43:SER:HB2	33:R1:123:THR:HG22	1.86	0.57
27:H1:20:GLU:O	27:H1:24:SER:N	2.36	0.57
28:I1:203:LYS:CD	21:i6:968:U:OP2	2.51	0.57
12:J2:65:GLU:HA	12:J2:70:ARG:HD3	1.86	0.57
21:i2:1718:G:O2'	21:i2:1815:A:N6	2.38	0.57
21:i2:1844:U:O4	35:j2:4:LYS:NZ	2.35	0.57
21:i2:1853:C:C5	35:j2:5:TRP:HZ2	2.22	0.57
25:E2:189:LEU:O	25:E2:245:ARG:NH2	2.38	0.57
33:R2:72:LYS:HB3	33:R2:75:GLU:HB2	1.85	0.57
21:i3:1568:C:O2'	21:i3:1569:A:O5'	2.22	0.57
22:A3:176:TRP:CD1	22:A3:199:PRO:HA	2.39	0.57
31:P3:111:MET:O	31:P3:111:MET:HG3	2.04	0.57
32:Q3:124:PRO:O	32:Q3:126:ARG:NH2	2.38	0.57
9:g4:242:SER:HB2	9:g4:247:TRP:HB2	1.86	0.57
21:i4:500:A:H3'	21:i4:501:C:H6	1.70	0.57
21:i4:1718:G:O2'	21:i4:1815:A:N6	2.38	0.57
21:i4:1777:G:H2'	21:i4:1778:C:C2	2.39	0.57
32:Q4:124:PRO:O	32:Q4:126:ARG:NH2	2.38	0.57
8:f5:105:TYR:CE1	8:f5:131:PHE:CE1	2.91	0.57
14:N5:39:LYS:HA	14:N5:42:LYS:HZ2	1.70	0.57
21:i5:1348:G:H22	21:i5:1381:G:H22	1.53	0.57
25:E5:189:LEU:O	25:E5:245:ARG:NH2	2.38	0.57
26:F5:88:MET:HE3	26:F5:91:ARG:NH2	2.20	0.57
33:R5:100:PRO:HA	33:R5:117:LEU:HD12	1.85	0.57
2:U6:20:ILE:N	2:U6:91:LEU:O	2.28	0.57
7:d6:43:PHE:O	7:d6:47:ALA:N	2.38	0.57
8:f6:95:ARG:HD2	21:i6:1289:U:H6	1.70	0.57
9:g6:207:CYS:SG	9:g6:208:ALA:N	2.77	0.57
11:G6:154:ARG:HG3	21:i6:77:A:N3	2.20	0.57
16:W6:94:LEU:HD11	16:W6:102:ILE:HG13	1.86	0.57
21:i6:794:A:H2'	21:i6:795:A:H4'	1.87	0.57
31:P6:34:MET:O	31:P6:42:ARG:HG3	2.05	0.57
36:k3:85:LEU:HD23	36:k3:142:ALA:HB3	1.86	0.57
36:k3:88:TYR:O	36:k3:91:ILE:HG13	2.04	0.57
36:k4:169:TYR:N	36:k4:169:TYR:CD2	2.73	0.57
36:k5:82:LEU:HD13	36:k5:170:LEU:N	2.19	0.57
36:k6:171:ASN:HA	36:k6:176:HIS:NE2	2.20	0.57
37:l3:128:VAL:HG11	37:l3:165:ILE:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I3:128:VAL:HG12	37:I3:129:THR:N	2.19	0.57
4:X1:11:ARG:NH1	21:I1:400:C:OP2	2.38	0.57
4:X1:17:ARG:HH22	21:I1:659:G:N2	2.03	0.57
20:E1:36:MET:HE1	21:I1:553:U:OP1	2.05	0.57
21:I1:1171:G:N2	21:I1:1188:A:OP2	2.36	0.57
25:E1:34:GLY:HA3	25:E1:83:PRO:HG3	1.86	0.57
25:E1:191:ARG:HE	25:E1:245:ARG:HB3	1.70	0.57
17:Y2:109:GLU:CG	17:Y2:113:ARG:NE	2.64	0.57
21:I2:689:U:O4	27:H2:122:LEU:HD21	2.05	0.57
21:I2:1751:C:C5	21:I2:1781:A:H2	2.23	0.57
22:A2:176:TRP:CD1	22:A2:199:PRO:HA	2.39	0.57
25:E2:11:ARG:NH2	25:E2:24:THR:O	2.38	0.57
28:I2:43:ILE:HG12	28:I2:57:ALA:HA	1.86	0.57
31:P2:114:HIS:HB3	31:P2:119:PHE:HE2	1.70	0.57
34:S2:68:ILE:O	34:S2:72:GLN:HG2	2.05	0.57
21:I3:12:U:C1'	21:I3:1357:A:H1'	2.34	0.57
21:I3:1622:U:H3'	21:I3:1623:A:H4'	1.87	0.57
21:I3:1656:G:H2'	21:I3:1657:G:H8	1.69	0.57
24:D3:11:PHE:O	24:D3:15:GLY:N	2.31	0.57
25:E3:185:GLY:H	25:E3:189:LEU:HB3	1.67	0.57
26:F3:88:MET:HE3	26:F3:91:ARG:NH2	2.20	0.57
26:F3:136:ARG:O	26:F3:203:ASN:HB2	2.05	0.57
5:A4:48:ALA:CB	6:C4:64:GLU:OE1	2.53	0.57
6:C4:51:ARG:NH2	26:F4:61:PHE:HA	2.19	0.57
10:C4:68:ARG:CG	10:C4:277:HIS:ND1	2.68	0.57
11:G4:218:LYS:O	11:G4:221:LYS:NZ	2.27	0.57
14:N4:150:VAL:CG1	14:N4:151:ALA:H	2.14	0.57
21:I4:213:G:N3	21:I4:213:G:H2'	2.18	0.57
21:I4:1268:C:H42	21:I4:1514:G:H22	1.52	0.57
21:I4:1717:C:O3'	35:J4:21:ARG:CZ	2.52	0.57
23:B4:189:ILE:HB	23:B4:190:PRO:HD3	1.87	0.57
27:H4:169:LYS:O	27:H4:172:THR:HG22	2.04	0.57
21:I5:1297:U:H2'	21:I5:1298:G:H2'	1.87	0.57
26:F5:17:ILE:HG23	26:F5:18:LYS:H	1.69	0.57
31:P5:18:ARG:NH1	34:S5:88:LYS:HB3	2.20	0.57
34:S5:68:ILE:O	34:S5:72:GLN:HG2	2.05	0.57
1:T6:97:LYS:NZ	21:I6:1570:G:N7	2.42	0.57
4:X6:11:ARG:HH12	21:I6:400:C:P	2.27	0.57
10:C6:139:LEU:HD21	10:C6:238:LYS:HG3	1.87	0.57
11:G6:66:GLY:N	11:G6:100:CYS:SG	2.78	0.57
16:W6:112:ASP:OD1	16:W6:113:HIS:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:690:G:N1	21:i6:738:C:N4	2.51	0.57
21:i6:1351:G:C2	21:i6:1352:G:C4	2.92	0.57
26:F6:88:MET:HE3	26:F6:91:ARG:NH2	2.20	0.57
34:S6:68:ILE:O	34:S6:72:GLN:HG2	2.05	0.57
34:S6:80:PRO:HB2	34:S6:83:PHE:HD2	1.69	0.57
36:k2:96:GLN:CD	36:k2:122:LYS:HB2	2.29	0.57
36:k2:170:LEU:O	36:k2:172:ASP:N	2.38	0.57
36:k3:96:GLN:CD	36:k3:122:LYS:HB2	2.29	0.57
36:k5:83:ARG:CZ	36:k5:175:TRP:CE2	2.88	0.57
12:J1:80:ARG:NH2	21:i1:818:A:OP1	2.38	0.57
21:i1:211:G:C6	21:i1:212:C:N3	2.72	0.57
21:i1:1320:G:C5	21:i1:1321:G:H1'	2.40	0.57
23:B1:122:GLU:HG2	23:B1:140:VAL:HG12	1.87	0.57
25:E1:238:LEU:HD11	25:E1:242:LYS:HG2	1.86	0.57
28:I1:158:ILE:HD13	15:O6:63:LYS:NZ	2.19	0.57
4:X2:140:ARG:HH22	4:X2:142:ARG:HH11	1.53	0.57
21:i2:1300:U:O2'	31:P2:51:ARG:NH1	2.37	0.57
28:I2:10:LYS:HE2	30:L2:136:LYS:HE3	1.86	0.57
8:f3:105:TYR:CE2	8:f3:106:TYR:CE2	2.91	0.57
11:G3:230:LYS:O	11:G3:234:LEU:N	2.36	0.57
21:i3:798:A:H4'	27:H3:109:ARG:HG2	1.85	0.57
23:B3:189:ILE:HB	23:B3:190:PRO:HD3	1.87	0.57
30:L3:40:ILE:HG12	30:L3:68:ILE:HD13	1.86	0.57
5:a4:40:VAL:HG22	5:a4:69:VAL:O	2.05	0.57
8:f4:105:TYR:CE2	8:f4:106:TYR:CE2	2.91	0.57
9:g4:158:PRO:HD3	9:g4:200:VAL:HG21	1.86	0.57
21:i4:668:A:H5'	21:i4:669:A:OP2	2.05	0.57
21:i4:830:A:OP2	21:i4:846:G:N2	2.37	0.57
21:i4:1235:G:H1	21:i4:1523:C:H42	1.51	0.57
25:E4:191:ARG:HE	25:E4:245:ARG:HB3	1.70	0.57
25:E4:231:GLY:O	25:E4:233:LYS:N	2.37	0.57
7:d5:43:PHE:O	7:d5:47:ALA:N	2.38	0.57
8:f5:126:CYS:HB2	8:f5:130:VAL:HB	1.87	0.57
9:g5:207:CYS:SG	9:g5:208:ALA:N	2.77	0.57
12:J5:130:ILE:HD13	12:J5:145:PRO:HA	1.86	0.57
30:L5:40:ILE:HG12	30:L5:68:ILE:HD13	1.86	0.57
18:Z6:85:ARG:HH21	18:Z6:85:ARG:CG	2.14	0.57
21:i6:739:C:C2'	21:i6:746:C:H42	2.17	0.57
21:i6:1464:C:OP1	33:R6:60:ARG:NH2	2.38	0.57
36:k2:33:PHE:HE1	36:k2:92:LEU:HD21	1.69	0.57
36:k3:140:GLN:NE2	36:k3:141:HIS:ND1	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k4:94:HIS:CB	36:k4:135:MET:CG	2.81	0.57
36:k5:36:ILE:N	36:k5:91:ILE:CG2	2.64	0.57
37:l1:131:VAL:HG12	37:l1:132:CYS:N	2.18	0.57
37:l4:120:ILE:HG22	37:l4:121:PRO:CD	2.35	0.57
37:l5:142:LYS:HE3	37:l5:146:ARG:HH11	1.70	0.57
37:l6:128:VAL:CG1	37:l6:166:ILE:C	2.70	0.57
37:l6:178:ILE:CD1	37:l6:190:ILE:HG22	2.17	0.57
9:g1:158:PRO:HD3	9:g1:200:VAL:HG21	1.86	0.57
10:C1:189:GLY:HA3	21:i1:1355:C:O2	2.05	0.57
11:G1:141:ILE:HG12	11:G1:144:LEU:CD2	1.94	0.57
18:Z1:82:SER:HA	21:i1:1598:G:C2'	2.31	0.57
21:i1:1098:C:H2'	21:i1:1099:G:C8	2.39	0.57
22:A1:6:ASP:HB2	22:A1:8:LEU:HG	1.87	0.57
27:H1:52:GLU:HA	27:H1:58:LYS:HA	1.87	0.57
28:I1:161:LEU:HD21	21:i6:969:U:C6	2.39	0.57
34:S1:80:PRO:HB2	34:S1:83:PHE:HD2	1.69	0.57
1:T2:38:LYS:NZ	21:i2:1628:C:OP1	2.36	0.57
4:X2:17:ARG:HH22	21:i2:659:G:N2	2.03	0.57
9:g2:61:GLY:O	9:g2:88:ARG:NH2	2.37	0.57
19:b2:54:VAL:H	19:b2:62:VAL:HG23	1.70	0.57
21:i2:668:A:H5'	21:i2:669:A:OP2	2.05	0.57
23:B2:24:PRO:HD3	30:L4:27:GLU:CB	2.34	0.57
25:E2:191:ARG:HE	25:E2:245:ARG:HB3	1.70	0.57
30:L2:40:ILE:HG12	30:L2:68:ILE:HD13	1.86	0.57
31:P2:37:TYR:OH	31:P2:87:PRO:HD3	2.05	0.57
10:C3:68:ARG:CG	10:C3:277:HIS:ND1	2.68	0.57
21:i3:696:G:N2	21:i3:734:C:O5'	2.35	0.57
21:i3:1777:G:H2'	21:i3:1778:C:C2	2.39	0.57
25:E3:11:ARG:NH2	25:E3:24:THR:O	2.37	0.57
25:E3:92:ILE:HG23	25:E3:96:GLY:H	1.70	0.57
34:S3:68:ILE:O	34:S3:72:GLN:HG2	2.05	0.57
35:j3:5:TRP:HA	35:j3:5:TRP:HE3	1.69	0.57
2:U4:67:LYS:HE3	21:i4:1337:C:H4'	1.84	0.57
11:G4:231:ARG:HA	11:G4:234:LEU:HB2	1.87	0.57
19:b4:54:VAL:H	19:b4:62:VAL:HG23	1.70	0.57
20:e4:10:GLY:HA2	21:i4:616:A:O2'	2.04	0.57
20:e4:35:ARG:NH1	21:i4:526:A:OP1	2.37	0.57
21:i4:536:A:N6	21:i4:549:C:O4'	2.36	0.57
26:F4:63:LYS:HG3	26:F4:71:ARG:HH22	1.70	0.57
26:F4:137:GLN:CB	26:F4:204:ARG:N	2.68	0.57
30:L4:59:LYS:HG2	30:L4:134:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V5:16:LYS:H	10:C5:259:THR:HG21	1.70	0.57
8:f5:78:LYS:O	8:f5:78:LYS:HG3	2.05	0.57
8:f5:80:ARG:NH1	21:i5:1327:G:H1'	2.20	0.57
11:G5:65:GLN:NE2	21:i5:1746:U:O2'	2.36	0.57
11:G5:231:ARG:HA	11:G5:234:LEU:HB2	1.87	0.57
12:J5:153:SER:HA	12:J5:156:HIS:HD2	1.69	0.57
21:i5:668:A:H5'	21:i5:669:A:OP2	2.05	0.57
21:i5:1235:G:H1	21:i5:1523:C:H42	1.51	0.57
21:i5:1622:U:H3'	21:i5:1623:A:H4'	1.86	0.57
26:F5:137:GLN:CB	26:F5:204:ARG:CA	2.80	0.57
31:P5:111:MET:O	31:P5:111:MET:HG3	2.03	0.57
11:G6:139:SER:OG	21:i6:145:G:OP1	2.22	0.57
11:G6:231:ARG:HA	11:G6:234:LEU:HB2	1.87	0.57
19:b6:54:VAL:H	19:b6:62:VAL:HG23	1.70	0.57
21:i6:1235:G:H1	21:i6:1523:C:H42	1.51	0.57
21:i6:1268:C:H42	21:i6:1514:G:H22	1.51	0.57
21:i6:1378:A:OP2	22:A6:105:PRO:HG3	2.05	0.57
36:k1:2:PHE:CG	36:k1:174:LEU:HB2	2.40	0.57
36:k6:92:LEU:HD22	36:k6:131:ILE:O	2.03	0.57
36:k6:140:GLN:NE2	36:k6:141:HIS:ND1	2.53	0.57
37:l2:120:ILE:HG22	37:l2:121:PRO:CD	2.35	0.57
11:G1:231:ARG:HA	11:G1:234:LEU:HB2	1.87	0.56
16:W1:40:VAL:O	16:W1:44:HIS:ND1	2.30	0.56
16:W1:112:ASP:OD1	16:W1:113:HIS:N	2.38	0.56
21:i1:830:A:OP2	21:i1:846:G:N2	2.37	0.56
21:i1:1183:A:OP2	35:j1:15:ARG:HD3	2.05	0.56
25:E1:11:ARG:NH2	25:E1:24:THR:O	2.38	0.56
26:F1:17:ILE:HG23	26:F1:18:LYS:H	1.69	0.56
26:F1:63:LYS:HG3	26:F1:71:ARG:HH22	1.70	0.56
26:F1:137:GLN:CB	26:F1:204:ARG:N	2.68	0.56
28:I1:121:LEU:CD1	15:O6:63:LYS:NZ	2.67	0.56
28:I1:196:GLU:C	28:I1:200:ARG:HG3	2.23	0.56
31:P1:41:GLN:CD	31:P1:84:ILE:HD13	2.30	0.56
4:X2:11:ARG:HH12	21:i2:400:C:P	2.27	0.56
21:i2:557:U:O2'	21:i2:558:G:C1'	2.53	0.56
21:i2:1098:C:H2'	21:i2:1099:G:C8	2.39	0.56
21:i2:1297:U:H2'	21:i2:1298:G:H2'	1.87	0.56
24:D2:76:ARG:O	24:D2:76:ARG:NH1	2.36	0.56
25:E2:229:GLY:H	25:E2:235:TRP:HB2	1.69	0.56
32:Q2:124:PRO:O	32:Q2:126:ARG:NH2	2.38	0.56
1:T3:97:LYS:NZ	21:i3:1570:G:N7	2.42	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a3:40:VAL:HG22	5:a3:69:VAL:O	2.05	0.56
10:C3:273:LEU:HB3	10:C3:280:VAL:HG12	1.84	0.56
12:J3:65:GLU:HA	12:J3:70:ARG:HD3	1.86	0.56
14:N3:150:VAL:CG1	14:N3:151:ALA:H	2.14	0.56
16:W3:112:ASP:OD1	16:W3:113:HIS:N	2.35	0.56
18:Z3:82:SER:HA	21:i3:1598:G:C2'	2.31	0.56
25:E3:112:HIS:NE2	25:E3:237:SER:O	2.38	0.56
13:M4:116:LYS:O	13:M4:117:GLU:HB2	2.05	0.56
20:e4:46:VAL:O	20:e4:46:VAL:HG13	2.04	0.56
21:i4:1172:U:O3'	35:j4:14:LYS:HD3	2.05	0.56
21:i4:1320:G:C5	21:i4:1321:G:H1'	2.40	0.56
9:g5:114:SER:OG	9:g5:116:ASP:OD1	2.17	0.56
10:C5:68:ARG:CG	10:C5:277:HIS:ND1	2.68	0.56
10:C5:270:THR:HG22	22:A5:69:GLU:HG3	1.87	0.56
22:A5:6:ASP:HB2	22:A5:8:LEU:HG	1.87	0.56
30:L5:152:LYS:HE3	30:L5:154:GLN:HE21	1.69	0.56
21:i6:1348:G:H22	21:i6:1381:G:H22	1.53	0.56
21:i6:1869:A:H1'	23:B6:115:LYS:HG2	1.87	0.56
32:Q6:12:VAL:HG21	32:Q6:91:ALA:HA	1.86	0.56
32:Q6:124:PRO:O	32:Q6:126:ARG:NH2	2.38	0.56
36:k2:39:TRP:CD1	36:k2:90:PHE:CZ	2.92	0.56
36:k2:85:LEU:HD21	36:k2:133:ALA:HB1	1.87	0.56
36:k5:93:PRO:O	36:k5:133:ALA:N	2.37	0.56
37:l1:139:ILE:HG22	37:l1:140:ASP:N	2.20	0.56
37:l4:115:VAL:C	37:l4:116:THR:HG1	2.05	0.56
37:l4:120:ILE:HG22	37:l4:121:PRO:HD2	1.87	0.56
4:X1:11:ARG:HH12	21:i1:400:C:P	2.27	0.56
23:B1:132:GLY:HA3	23:B1:221:PRO:HG3	1.87	0.56
28:I1:125:LYS:HG2	28:I1:125:LYS:O	2.04	0.56
11:G2:189:ARG:NH2	21:i2:330:G:O6	2.38	0.56
15:O2:96:LYS:NZ	15:O2:130:GLU:OE1	2.36	0.56
21:i2:733:C:C4	27:H2:149:ASP:HA	2.39	0.56
22:A2:43:SER:HB2	33:R2:123:THR:HG22	1.86	0.56
26:F2:137:GLN:CB	26:F2:204:ARG:N	2.68	0.56
27:H2:12:ASN:OD1	27:H2:14:GLU:HG2	2.05	0.56
29:K2:80:ARG:HH21	29:K2:87:PRO:HA	1.69	0.56
1:T3:38:LYS:NZ	21:i3:1628:C:OP1	2.36	0.56
9:g3:61:GLY:O	9:g3:88:ARG:NH2	2.37	0.56
16:W3:40:VAL:O	16:W3:44:HIS:ND1	2.30	0.56
21:i3:1869:A:H1'	23:B3:115:LYS:HG2	1.87	0.56
22:A3:6:ASP:HB2	22:A3:8:LEU:HG	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E3:238:LEU:HD11	25:E3:242:LYS:HG2	1.86	0.56
31:P3:15:PHE:CZ	31:P3:17:TYR:CB	2.88	0.56
31:P3:114:HIS:HB3	31:P3:119:PHE:HE2	1.70	0.56
32:Q3:67:ASP:OD1	32:Q3:68:ILE:N	2.37	0.56
4:X4:140:ARG:HH22	4:X4:142:ARG:HH11	1.53	0.56
8:f4:100:LEU:HD11	21:i4:1285:G:H5'	1.87	0.56
11:G4:66:GLY:N	11:G4:100:CYS:SG	2.78	0.56
19:b4:31:TYR:O	19:b4:48:SER:OG	2.19	0.56
21:i4:1708:C:C1'	37:l4:153:SER:CB	2.69	0.56
27:H4:12:ASN:OD1	27:H4:14:GLU:HG2	2.05	0.56
16:W5:112:ASP:OD1	16:W5:113:HIS:N	2.37	0.56
18:Z5:82:SER:HA	21:i5:1598:G:C2'	2.31	0.56
19:b5:54:VAL:H	19:b5:62:VAL:HG23	1.70	0.56
22:A5:43:SER:HB2	33:R5:123:THR:HG22	1.86	0.56
22:A5:68:ILE:HG22	22:A5:70:ASN:H	1.70	0.56
23:B5:129:THR:HG21	23:B5:133:TYR:HB2	1.87	0.56
23:B5:189:ILE:HB	23:B5:190:PRO:HD3	1.87	0.56
26:F5:63:LYS:HG3	26:F5:71:ARG:HH22	1.70	0.56
21:i6:1171:G:N2	21:i6:1188:A:OP2	2.36	0.56
21:i6:1568:C:O2'	21:i6:1569:A:O5'	2.22	0.56
21:i6:1718:G:O2'	21:i6:1815:A:N6	2.38	0.56
22:A6:68:ILE:HG22	22:A6:70:ASN:H	1.71	0.56
36:k3:86:HIS:CD2	36:k3:141:HIS:CA	2.88	0.56
36:k4:39:TRP:CD1	36:k4:90:PHE:CZ	2.93	0.56
36:k4:94:HIS:CG	36:k4:135:MET:HG3	2.40	0.56
36:k4:140:GLN:NE2	36:k4:141:HIS:ND1	2.53	0.56
36:k5:83:ARG:CZ	36:k5:175:TRP:CD2	2.88	0.56
37:l1:117:ILE:O	37:l1:118:ALA:HB3	2.05	0.56
37:l1:178:ILE:CG1	37:l1:190:ILE:HG21	2.34	0.56
37:l2:128:VAL:HG12	37:l2:129:THR:N	2.19	0.56
37:l3:120:ILE:HG22	37:l3:121:PRO:CD	2.35	0.56
37:l4:142:LYS:HE3	37:l4:146:ARG:HH11	1.70	0.56
37:l5:120:ILE:HG22	37:l5:121:PRO:CD	2.35	0.56
2:U1:18:HIS:CB	2:U1:118:ASP:H	2.18	0.56
8:f1:95:ARG:HD2	21:i1:1289:U:H6	1.70	0.56
8:f1:100:LEU:HD11	21:i1:1285:G:H5'	1.88	0.56
8:f1:126:CYS:HB2	8:f1:130:VAL:HB	1.87	0.56
9:g1:114:SER:OG	9:g1:116:ASP:OD1	2.17	0.56
12:J1:127:ARG:NH2	21:i1:523:A:OP2	2.36	0.56
14:N1:133:ARG:NH2	30:L1:154:GLN:HG3	2.14	0.56
18:Z1:42:ASP:O	21:i1:1600:G:H5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:33:G:H1	21:i1:522:A:H2	1.52	0.56
21:i1:536:A:N6	21:i1:549:C:O4'	2.37	0.56
21:i1:693:A:N6	21:i1:734:C:C2	2.64	0.56
21:i1:1069:U:H4'	36:k1:16:GLN:HG2	1.88	0.56
21:i1:1300:U:O2'	31:P1:51:ARG:NH1	2.37	0.56
21:i1:1568:C:O2'	21:i1:1569:A:O5'	2.22	0.56
21:i1:1615:U:P	31:P1:43:ARG:NH2	2.79	0.56
25:E1:92:ILE:HG23	25:E1:96:GLY:H	1.70	0.56
31:P1:114:HIS:HB3	31:P1:119:PHE:HE2	1.70	0.56
31:P1:115:TYR:H	31:P1:115:TYR:HD2	1.52	0.56
33:R1:79:GLU:HG2	33:R1:80:ARG:N	2.19	0.56
4:X2:68:LYS:HG2	4:X2:91:LEU:HD22	1.88	0.56
9:g2:147:HIS:CE1	9:g2:173:LEU:HB2	2.30	0.56
9:g2:220:ASP:O	9:g2:224:GLY:N	2.33	0.56
9:g2:300:ALA:HB3	9:g2:310:TRP:HZ3	1.69	0.56
10:C2:68:ARG:CG	10:C2:277:HIS:ND1	2.68	0.56
12:J2:118:GLY:O	12:J2:120:ALA:N	2.39	0.56
20:e2:46:VAL:O	20:e2:46:VAL:HG13	2.04	0.56
21:i2:187:G:H5'	21:i2:300:U:OP1	2.05	0.56
21:i2:215:G:N7	21:i2:312:G:N1	2.53	0.56
21:i2:1259:A:O2'	21:i2:1518:C:N4	2.39	0.56
21:i2:1707:U:O2'	21:i2:1849:G:N2	2.38	0.56
21:i2:1772:C:C4'	34:S5:112:GLU:HG3	2.36	0.56
23:B2:129:THR:HG21	23:B2:133:TYR:HB2	1.87	0.56
24:D2:132:LYS:HG3	24:D2:191:PRO:HB3	1.88	0.56
27:H2:52:GLU:HA	27:H2:58:LYS:HA	1.87	0.56
34:S2:80:PRO:HB2	34:S2:83:PHE:HD2	1.69	0.56
4:X3:11:ARG:NH1	21:i3:400:C:OP2	2.38	0.56
4:X3:17:ARG:HH22	21:i3:659:G:N2	2.03	0.56
4:X3:61:GLN:CB	21:i3:1824:A:N7	2.65	0.56
8:f3:78:LYS:HG3	8:f3:78:LYS:O	2.04	0.56
8:f3:80:ARG:CD	21:i3:1509:U:O4	2.52	0.56
9:g3:158:PRO:HD3	9:g3:200:VAL:HG21	1.86	0.56
9:g3:242:SER:HB2	9:g3:247:TRP:HB2	1.86	0.56
10:C3:139:LEU:HD21	10:C3:238:LYS:HG3	1.87	0.56
16:W3:76:SER:OG	21:i3:1157:G:O3'	2.22	0.56
19:b3:21:LYS:C	19:b3:23:ARG:H	2.14	0.56
21:i3:523:A:C2	21:i3:524:U:H1'	2.40	0.56
21:i3:794:A:H2'	21:i3:795:A:H4'	1.87	0.56
21:i3:1320:G:C5	21:i3:1321:G:H1'	2.40	0.56
21:i3:1545:A:HO2'	21:i3:1546:G:H8	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1718:G:O2'	21:i3:1815:A:N6	2.38	0.56
23:B3:97:LEU:HD22	23:B3:232:HIS:NE2	2.20	0.56
28:I3:10:LYS:HE2	30:L3:136:LYS:HE3	1.86	0.56
8:f4:83:LYS:O	8:f4:83:LYS:HG3	2.04	0.56
8:f4:126:CYS:HB2	8:f4:130:VAL:HB	1.87	0.56
10:C4:145:LYS:HD2	21:i4:1348:G:H5'	1.87	0.56
12:J4:80:ARG:NH2	21:i4:818:A:OP1	2.39	0.56
13:M4:93:LYS:HB2	13:M4:102:LYS:HB3	1.87	0.56
21:i4:1300:U:O4	31:P4:51:ARG:HD2	2.01	0.56
21:i4:1656:G:H2'	21:i4:1657:G:H8	1.69	0.56
22:A4:6:ASP:HB2	22:A4:8:LEU:HG	1.87	0.56
26:F4:88:MET:HE3	26:F4:91:ARG:NH2	2.20	0.56
31:P4:114:HIS:HB3	31:P4:119:PHE:HE2	1.70	0.56
34:S4:50:ILE:HD12	34:S4:67:VAL:HG21	1.87	0.56
34:S4:68:ILE:O	34:S4:72:GLN:HG2	2.05	0.56
4:X5:17:ARG:HH22	21:i5:659:G:N2	2.03	0.56
4:X5:68:LYS:HG2	4:X5:91:LEU:HD22	1.88	0.56
9:g5:147:HIS:ND1	9:g5:171:ASP:HB2	2.21	0.56
10:C5:139:LEU:HD21	10:C5:238:LYS:HG3	1.87	0.56
10:C5:273:LEU:HB3	10:C5:280:VAL:HG13	1.64	0.56
20:e5:51:LYS:O	20:e5:52:LYS:HB2	2.05	0.56
21:i5:207:G:C2	21:i5:208:G:H1'	2.39	0.56
21:i5:313:A:O2'	21:i5:314:U:OP2	2.19	0.56
21:i5:1236:G:C6	34:S5:137:LYS:HE3	2.33	0.56
21:i5:1300:U:O4	31:P5:51:ARG:HD2	1.98	0.56
25:E5:112:HIS:NE2	25:E5:237:SER:O	2.39	0.56
25:E5:191:ARG:HE	25:E5:245:ARG:HB3	1.70	0.56
25:E5:229:GLY:H	25:E5:235:TRP:HB2	1.69	0.56
25:E5:238:LEU:HD11	25:E5:242:LYS:HG2	1.86	0.56
26:F5:115:ALA:O	26:F5:119:SER:OG	2.19	0.56
26:F5:136:ARG:O	26:F5:203:ASN:HB2	2.05	0.56
28:I5:10:LYS:HE2	30:L5:136:LYS:HE3	1.86	0.56
31:P5:37:TYR:OH	31:P5:87:PRO:HD3	2.04	0.56
31:P5:115:TYR:H	31:P5:115:TYR:HD2	1.52	0.56
32:Q5:124:PRO:O	32:Q5:126:ARG:NH2	2.38	0.56
34:S5:80:PRO:HB2	34:S5:83:PHE:HD2	1.69	0.56
34:S5:84:LEU:HD12	34:S5:95:TYR:HB3	1.87	0.56
1:T6:101:ARG:HH22	21:i6:1566:G:H8	1.52	0.56
4:X6:68:LYS:HG2	4:X6:91:LEU:HD22	1.88	0.56
17:Y6:126:GLY:O	17:Y6:130:LYS:NZ	2.27	0.56
19:b6:21:LYS:C	19:b6:23:ARG:H	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1297:U:H2'	21:i6:1298:G:H2'	1.87	0.56
21:i6:1656:G:H2'	21:i6:1657:G:H8	1.69	0.56
21:i6:1751:C:H5	21:i6:1781:A:H2	0.75	0.56
22:A6:6:ASP:HB2	22:A6:8:LEU:HG	1.88	0.56
23:B6:97:LEU:HD22	23:B6:232:HIS:NE2	2.20	0.56
25:E6:191:ARG:HE	25:E6:245:ARG:HB3	1.70	0.56
27:H6:12:ASN:OD1	27:H6:14:GLU:HG2	2.05	0.56
27:H6:52:GLU:HA	27:H6:58:LYS:HA	1.87	0.56
27:H6:95:ILE:HD11	27:H6:133:LEU:HD21	1.87	0.56
33:R6:81:ARG:HG2	33:R6:81:ARG:NH1	2.20	0.56
36:k2:140:GLN:CG	36:k2:141:HIS:CE1	2.89	0.56
36:k3:33:PHE:HD1	36:k3:92:LEU:HG	1.69	0.56
36:k3:140:GLN:CG	36:k3:141:HIS:CE1	2.88	0.56
36:k4:140:GLN:CG	36:k4:141:HIS:CE1	2.89	0.56
36:k4:170:LEU:HD23	36:k4:171:ASN:CA	2.35	0.56
36:k4:174:LEU:O	36:k4:175:TRP:C	2.47	0.56
36:k5:174:LEU:O	36:k5:175:TRP:C	2.47	0.56
36:k6:146:GLY:N	36:k6:167:ILE:HG13	2.19	0.56
36:k6:170:LEU:HG	36:k6:175:TRP:CE2	2.40	0.56
37:l2:136:THR:CG2	37:l2:137:PHE:HA	2.36	0.56
37:l6:120:ILE:HG22	37:l6:121:PRO:CD	2.35	0.56
37:l6:142:LYS:HE3	37:l6:146:ARG:HH11	1.70	0.56
10:C1:68:ARG:CG	10:C1:277:HIS:ND1	2.68	0.56
14:N1:17:PRO:O	14:N1:20:ARG:NH1	2.30	0.56
23:B1:129:THR:HG21	23:B1:133:TYR:HB2	1.87	0.56
30:L1:40:ILE:HG12	30:L1:68:ILE:HD13	1.86	0.56
31:P1:41:GLN:OE1	31:P1:84:ILE:CD1	2.53	0.56
2:U2:18:HIS:CB	2:U2:118:ASP:H	2.18	0.56
4:X2:11:ARG:NH1	21:i2:400:C:OP2	2.38	0.56
11:G2:66:GLY:N	11:G2:100:CYS:SG	2.78	0.56
21:i2:1656:G:H2'	21:i2:1657:G:H8	1.69	0.56
21:i2:1853:C:C5	35:j2:5:TRP:CZ2	2.92	0.56
22:A2:68:ILE:HG22	22:A2:70:ASN:H	1.70	0.56
25:E2:92:ILE:HG23	25:E2:96:GLY:H	1.70	0.56
25:E2:112:HIS:NE2	25:E2:237:SER:O	2.39	0.56
34:S2:84:LEU:HD12	34:S2:95:TYR:HB3	1.87	0.56
1:T3:42:HIS:CD2	1:T3:81:GLY:H	2.23	0.56
4:X3:68:LYS:HG2	4:X3:91:LEU:HD22	1.88	0.56
4:X3:140:ARG:HH22	4:X3:142:ARG:HH11	1.53	0.56
10:C3:273:LEU:HD13	10:C3:280:VAL:CB	2.35	0.56
12:J3:80:ARG:NH2	21:i3:818:A:OP1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z3:41:ARG:CB	21:i6:209:A:H2	2.17	0.56
25:E3:191:ARG:HE	25:E3:245:ARG:HB3	1.70	0.56
32:Q3:102:GLU:HG2	32:Q3:106:LYS:HE2	1.88	0.56
10:C4:270:THR:HG22	22:A4:69:GLU:HG3	1.87	0.56
18:Z4:42:ASP:O	21:i4:1600:G:H5'	2.05	0.56
21:i4:1869:A:H1'	23:B4:115:LYS:HG2	1.87	0.56
26:F4:184:SER:HB2	21:i5:201:C:H5'	1.88	0.56
30:L4:61:PRO:HD3	30:L4:141:ASN:HD21	1.69	0.56
34:S4:74:PRO:HA	34:S4:79:ILE:HD12	1.88	0.56
9:g5:178:ASN:HB2	9:g5:182:CYS:HA	1.88	0.56
21:i5:194:C:H42	21:i5:205:G:H1	1.51	0.56
21:i5:1717:C:O2	35:j5:20:MET:CE	2.52	0.56
27:H5:52:GLU:HA	27:H5:58:LYS:HA	1.87	0.56
32:Q5:67:ASP:OD1	32:Q5:68:ILE:N	2.37	0.56
10:C6:68:ARG:CG	10:C6:277:HIS:ND1	2.68	0.56
13:M6:36:ARG:NE	21:i6:1310:U:C6	2.69	0.56
21:i6:1622:U:H3'	21:i6:1623:A:H4'	1.86	0.56
24:D6:11:PHE:O	24:D6:15:GLY:N	2.31	0.56
26:F6:63:LYS:HG3	26:F6:71:ARG:HH22	1.70	0.56
31:P6:96:VAL:HG21	31:P6:116:LEU:HD11	1.59	0.56
31:P6:121:ILE:HG13	31:P6:123:TYR:CG	2.38	0.56
37:l1:178:ILE:CD1	37:l1:190:ILE:HG22	2.17	0.56
37:l2:117:ILE:O	37:l2:118:ALA:HB3	2.05	0.56
37:l2:128:VAL:CG1	37:l2:166:ILE:C	2.70	0.56
37:l3:142:LYS:HE3	37:l3:146:ARG:HH11	1.70	0.56
37:l5:115:VAL:C	37:l5:116:THR:HG1	2.05	0.56
7:d1:43:PHE:O	7:d1:47:ALA:N	2.38	0.56
11:G1:164:LYS:HG2	11:G1:166:GLY:H	1.71	0.56
12:J1:118:GLY:O	12:J1:120:ALA:N	2.39	0.56
13:M1:93:LYS:HB2	13:M1:102:LYS:HB3	1.88	0.56
21:i1:23:G:O2'	21:i1:416:U:OP1	2.24	0.56
26:F1:127:ARG:HB3	26:F1:128:ILE:HG12	1.87	0.56
34:S1:68:ILE:O	34:S1:72:GLN:HG2	2.05	0.56
34:S1:105:ASN:HD21	21:i3:1761:U:HO2'	1.54	0.56
1:T2:42:HIS:NE2	1:T2:82:ARG:O	2.39	0.56
8:f2:95:ARG:HD2	21:i2:1289:U:H5''	1.76	0.56
10:C2:273:LEU:HB3	10:C2:280:VAL:HG12	1.84	0.56
13:M2:27:ILE:HG22	29:K2:84:HIS:CE1	2.31	0.56
19:b2:21:LYS:C	19:b2:23:ARG:H	2.14	0.56
21:i2:964:A:N1	21:i2:1065:G:O2'	2.36	0.56
21:i2:1189:A:H2'	21:i2:1190:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1869:A:H1'	23:B2:115:LYS:HG2	1.87	0.56
21:i3:526:A:C2	21:i3:560:A:N1	2.73	0.56
21:i3:1033:G:N1	21:i3:1080:A:O2'	2.32	0.56
21:i3:1069:U:C4'	36:k3:16:GLN:HB3	2.36	0.56
23:B3:122:GLU:HG2	23:B3:140:VAL:HG12	1.86	0.56
25:E3:34:GLY:HA3	25:E3:83:PRO:HG3	1.86	0.56
26:F3:137:GLN:CB	26:F3:204:ARG:CA	2.80	0.56
27:H3:52:GLU:HA	27:H3:58:LYS:HA	1.87	0.56
27:H3:95:ILE:HD11	27:H3:133:LEU:HD21	1.87	0.56
1:T4:101:ARG:HH22	21:i4:1566:G:H8	1.53	0.56
11:G4:139:SER:OG	21:i4:145:G:OP1	2.21	0.56
12:J4:145:PRO:HD2	21:i4:522:A:H5''	1.86	0.56
21:i4:1033:G:N1	21:i4:1080:A:O2'	2.32	0.56
21:i4:1594:A:P	32:Q4:45:ARG:HH21	2.29	0.56
21:i4:1821:U:O4	21:i4:1822:A:N6	2.39	0.56
22:A4:4:ALA:N	22:A4:5:LEU:HA	2.16	0.56
23:B4:122:GLU:HG2	23:B4:140:VAL:HG12	1.87	0.56
26:F4:136:ARG:O	26:F4:203:ASN:HB2	2.05	0.56
28:I4:10:LYS:HE2	30:L4:136:LYS:HE3	1.86	0.56
32:Q4:67:ASP:OD1	32:Q4:68:ILE:N	2.37	0.56
13:M5:40:LYS:HZ3	21:i5:1310:U:H5'	1.67	0.56
21:i5:375:U:H3	21:i5:389:A:H61	1.54	0.56
21:i5:500:A:H3'	21:i5:501:C:H6	1.70	0.56
21:i5:1320:G:C5	21:i5:1321:G:H1'	2.40	0.56
21:i5:1380:C:O2'	22:A5:113:GLN:HB3	2.05	0.56
21:i5:1718:G:O2'	21:i5:1815:A:N6	2.38	0.56
27:H5:12:ASN:OD1	27:H5:14:GLU:HG2	2.05	0.56
27:H5:95:ILE:HD11	27:H5:133:LEU:HD21	1.88	0.56
31:P5:114:HIS:HB3	31:P5:119:PHE:HE2	1.70	0.56
9:g6:34:ALA:HB2	9:g6:40:ILE:HG23	1.88	0.56
12:J6:130:ILE:HD13	12:J6:145:PRO:HA	1.86	0.56
21:i6:1320:G:C5	21:i6:1321:G:H1'	2.40	0.56
25:E6:92:ILE:HG23	25:E6:96:GLY:H	1.70	0.56
36:k1:79:TYR:CD1	36:k1:131:ILE:HD13	2.40	0.56
36:k1:140:GLN:CG	36:k1:141:HIS:CE1	2.89	0.56
36:k4:39:TRP:CE2	36:k4:90:PHE:HZ	2.23	0.56
36:k5:39:TRP:NE1	36:k5:90:PHE:CE1	2.73	0.56
37:l4:139:ILE:HG22	37:l4:140:ASP:N	2.20	0.56
1:T1:42:HIS:NE2	1:T1:82:ARG:O	2.39	0.56
5:a1:102:ARG:N	5:a1:103:PRO:HA	2.19	0.56
11:G1:139:SER:OG	21:i1:145:G:OP1	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b1:54:VAL:H	19:b1:62:VAL:HG23	1.70	0.56
21:i1:668:A:H5'	21:i1:669:A:OP2	2.06	0.56
21:i1:964:A:N1	21:i1:1065:G:O2'	2.36	0.56
21:i1:1259:A:O2'	21:i1:1518:C:N4	2.39	0.56
24:D1:132:LYS:HG3	24:D1:191:PRO:HB3	1.88	0.56
26:F1:88:MET:HB2	26:F1:91:ARG:HH21	1.71	0.56
30:L1:4:ILE:HD13	30:L1:55:TYR:HA	1.88	0.56
32:Q1:102:GLU:HG2	32:Q1:106:LYS:HE2	1.88	0.56
32:Q1:124:PRO:O	32:Q1:126:ARG:NH2	2.38	0.56
34:S1:84:LEU:HD12	34:S1:95:TYR:HB3	1.88	0.56
9:g2:114:SER:OG	9:g2:116:ASP:OD1	2.17	0.56
9:g2:147:HIS:ND1	9:g2:171:ASP:HB2	2.20	0.56
10:C2:139:LEU:HD21	10:C2:238:LYS:HG3	1.87	0.56
21:i2:210:U:O3'	18:Z5:41:ARG:NH1	2.38	0.56
21:i2:1320:G:C5	21:i2:1321:G:H1'	2.40	0.56
21:i2:1497:G:N7	29:K2:25:LYS:NZ	2.52	0.56
21:i2:1693:G:H21	21:i2:1834:A:C1'	2.19	0.56
22:A2:6:ASP:HB2	22:A2:8:LEU:HG	1.88	0.56
23:B2:22:VAL:H	30:L4:30:LYS:CE	2.18	0.56
31:P2:111:MET:O	31:P2:111:MET:HG3	2.05	0.56
32:Q2:102:GLU:HG2	32:Q2:106:LYS:HE2	1.88	0.56
33:R2:79:GLU:HG2	33:R2:80:ARG:N	2.19	0.56
8:f3:105:TYR:HE2	8:f3:106:TYR:HH	1.51	0.56
10:C3:270:THR:HG22	22:A3:69:GLU:HG3	1.86	0.56
21:i3:1297:U:H2'	21:i3:1298:G:H2'	1.87	0.56
31:P3:34:MET:O	31:P3:42:ARG:HG3	2.05	0.56
1:T4:42:HIS:CD2	1:T4:81:GLY:H	2.23	0.56
4:X4:11:ARG:NH1	21:i4:400:C:OP2	2.38	0.56
4:X4:17:ARG:HH22	21:i4:659:G:N2	2.03	0.56
5:a4:102:ARG:N	5:a4:103:PRO:HA	2.20	0.56
12:J4:153:SER:HA	12:J4:156:HIS:HD2	1.69	0.56
21:i4:1597:C:H2'	21:i4:1598:G:C8	2.41	0.56
27:H4:95:ILE:HD11	27:H4:133:LEU:HD21	1.87	0.56
27:H4:116:ARG:NH2	27:H4:121:THR:HA	2.21	0.56
31:P4:33:LEU:O	31:P4:37:TYR:HB2	2.06	0.56
4:X5:70:VAL:O	4:X5:83:ALA:N	2.36	0.56
9:g5:34:ALA:HB2	9:g5:40:ILE:HG23	1.88	0.56
9:g5:242:SER:HB2	9:g5:247:TRP:HB2	1.86	0.56
11:G5:164:LYS:HG2	11:G5:166:GLY:H	1.71	0.56
21:i5:1377:U:H2'	22:A5:105:PRO:HG2	1.87	0.56
23:B5:132:GLY:HA3	23:B5:221:PRO:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E5:92:ILE:HG23	25:E5:96:GLY:H	1.70	0.56
25:E5:231:GLY:O	25:E5:233:LYS:N	2.37	0.56
26:F5:137:GLN:CB	26:F5:204:ARG:N	2.68	0.56
10:C6:65:LYS:CB	10:C6:279:ARG:CB	2.72	0.56
13:M6:116:LYS:O	13:M6:117:GLU:HB2	2.05	0.56
18:Z6:42:ASP:O	21:i6:1600:G:H5'	2.06	0.56
21:i6:628:A:H62	24:D6:145:GLN:NE2	2.04	0.56
23:B6:132:GLY:HA3	23:B6:221:PRO:HG3	1.88	0.56
31:P6:45:LEU:HD11	31:P6:49:LEU:HD21	1.88	0.56
33:R6:52:GLY:O	33:R6:55:THR:OG1	2.20	0.56
34:S6:84:LEU:HD12	34:S6:95:TYR:HB3	1.88	0.56
36:k2:39:TRP:CE2	36:k2:90:PHE:HZ	2.23	0.56
37:l1:120:ILE:HG22	37:l1:121:PRO:HD2	1.88	0.56
37:l2:142:LYS:HE3	37:l2:146:ARG:HH11	1.70	0.56
37:l4:117:ILE:O	37:l4:118:ALA:HB3	2.06	0.56
1:T1:42:HIS:CD2	1:T1:81:GLY:H	2.23	0.56
14:N1:148:ALA:HB3	14:N1:149:LEU:CA	2.18	0.56
19:b1:21:LYS:C	19:b1:23:ARG:H	2.14	0.56
21:i1:556:U:C6	21:i1:588:G:H1'	2.34	0.56
21:i1:1597:C:H2'	21:i1:1598:G:C8	2.41	0.56
1:T2:121:ARG:HH11	21:i2:1563:G:H5'	1.71	0.56
12:J2:80:ARG:NH2	21:i2:818:A:OP1	2.39	0.56
21:i2:956:G:OP1	28:I4:157:LYS:HE2	2.03	0.56
21:i2:1033:G:N1	21:i2:1080:A:O2'	2.32	0.56
21:i2:1597:C:H2'	21:i2:1598:G:C8	2.41	0.56
23:B2:138:PHE:O	23:B2:213:ARG:N	2.39	0.56
26:F2:88:MET:HB2	26:F2:91:ARG:HH21	1.71	0.56
33:R2:86:PRO:O	33:R2:89:SER:OG	2.16	0.56
1:T3:42:HIS:NE2	1:T3:82:ARG:O	2.39	0.56
11:G3:66:GLY:N	11:G3:100:CYS:SG	2.78	0.56
21:i3:668:A:H5'	21:i3:669:A:OP2	2.06	0.56
21:i3:1597:C:H2'	21:i3:1598:G:C8	2.41	0.56
23:B3:129:THR:HG21	23:B3:133:TYR:HB2	1.87	0.56
34:S3:84:LEU:HD12	34:S3:95:TYR:HB3	1.87	0.56
18:Z4:88:LEU:HD22	18:Z4:109:TYR:HE2	1.70	0.56
21:i4:211:G:C5	21:i4:212:C:C2	2.93	0.56
21:i4:794:A:H2'	21:i4:795:A:H4'	1.87	0.56
23:B4:132:GLY:HA3	23:B4:221:PRO:HG3	1.88	0.56
31:P4:133:ILE:HG22	31:P4:134:GLY:N	2.21	0.56
1:T5:42:HIS:CD2	1:T5:81:GLY:H	2.23	0.56
2:U5:18:HIS:CB	2:U5:118:ASP:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X5:40:PRO:HG2	4:X5:120:PHE:HE2	1.71	0.56
8:f5:100:LEU:HD11	21:i5:1285:G:H5'	1.87	0.56
11:G5:50:VAL:HB	11:G5:111:LEU:HD11	1.88	0.56
13:M5:116:LYS:O	13:M5:117:GLU:HB2	2.05	0.56
14:N5:129:TYR:HB3	14:N5:134:VAL:CB	2.31	0.56
19:b5:36:LYS:HE2	19:b5:80:ARG:HD2	1.88	0.56
21:i5:23:G:O2'	21:i5:416:U:OP1	2.24	0.56
21:i5:1597:C:H2'	21:i5:1598:G:C8	2.41	0.56
31:P5:15:PHE:CE2	31:P5:112:ILE:HD13	2.39	0.56
1:T6:42:HIS:CD2	1:T6:81:GLY:H	2.24	0.56
10:C6:142:LYS:HG2	10:C6:157:LEU:CD1	2.33	0.56
11:G6:230:LYS:O	11:G6:234:LEU:N	2.37	0.56
16:W6:72:CYS:SG	16:W6:73:GLY:N	2.73	0.56
21:i6:731:G:H4'	21:i6:732:U:OP1	2.06	0.56
21:i6:1175:G:OP1	35:j6:21:ARG:NH1	2.31	0.56
21:i6:1348:G:H22	21:i6:1381:G:N2	2.04	0.56
21:i6:1594:A:P	32:Q6:45:ARG:HH21	2.29	0.56
30:L6:59:LYS:HG2	30:L6:134:LEU:HD11	1.86	0.56
36:k3:36:ILE:HA	36:k3:91:ILE:HG22	1.88	0.56
36:k4:96:GLN:NE2	36:k4:122:LYS:CD	2.69	0.56
36:k5:82:LEU:CD1	36:k5:170:LEU:N	2.67	0.56
36:k5:83:ARG:NH2	36:k5:175:TRP:NE1	2.53	0.56
36:k5:140:GLN:CG	36:k5:141:HIS:CE1	2.89	0.56
37:l3:136:THR:CG2	37:l3:137:PHE:HA	2.36	0.56
37:l4:136:THR:CG2	37:l4:137:PHE:HA	2.36	0.56
37:l5:117:ILE:O	37:l5:118:ALA:HB3	2.05	0.56
37:l5:136:THR:CG2	37:l5:137:PHE:HA	2.36	0.56
37:l6:139:ILE:HG22	37:l6:140:ASP:N	2.20	0.56
4:X1:40:PRO:HG2	4:X1:120:PHE:HE2	1.71	0.56
8:f1:92:LYS:HD3	21:i1:1272:C:OP1	2.06	0.56
11:G1:66:GLY:O	21:i1:1791:A:H1'	2.05	0.56
18:Z1:88:LEU:HD22	18:Z1:109:TYR:HE2	1.71	0.56
26:F1:136:ARG:O	26:F1:203:ASN:ND2	2.36	0.56
31:P1:34:MET:HB3	31:P1:42:ARG:CG	2.36	0.56
33:R1:5:ARG:HB2	33:R1:10:LYS:HZ1	1.69	0.56
8:f2:100:LEU:HD11	21:i2:1285:G:H5'	1.87	0.56
11:G2:231:ARG:HA	11:G2:234:LEU:HB2	1.87	0.56
13:M2:93:LYS:HB2	13:M2:102:LYS:HB3	1.88	0.56
26:F2:137:GLN:CB	26:F2:204:ARG:CA	2.80	0.56
33:R2:75:GLU:OE1	33:R2:78:ARG:NH1	2.38	0.56
34:S2:74:PRO:HA	34:S2:79:ILE:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T3:101:ARG:HH22	21:i3:1566:G:H8	1.53	0.56
8:f3:96:LYS:CD	21:i3:1307:U:C5	2.88	0.56
14:N3:39:LYS:HA	14:N3:42:LYS:NZ	2.21	0.56
21:i3:1348:G:H22	21:i3:1381:G:N2	2.04	0.56
21:i3:1497:G:N7	29:K3:25:LYS:NZ	2.52	0.56
24:D3:132:LYS:HG3	24:D3:191:PRO:HB3	1.88	0.56
26:F3:88:MET:HB2	26:F3:91:ARG:HH21	1.71	0.56
4:X4:68:LYS:HG2	4:X4:91:LEU:HD22	1.87	0.56
9:g4:61:GLY:O	9:g4:88:ARG:NH2	2.38	0.56
10:C4:139:LEU:HD21	10:C4:238:LYS:HG3	1.87	0.56
23:B4:129:THR:HG21	23:B4:133:TYR:HB2	1.87	0.56
25:E4:112:HIS:NE2	25:E4:237:SER:O	2.39	0.56
28:I4:125:LYS:HG2	28:I4:125:LYS:O	2.04	0.56
30:L4:4:ILE:HD13	30:L4:55:TYR:HA	1.88	0.56
34:S4:84:LEU:HD12	34:S4:95:TYR:HB3	1.88	0.56
11:G5:154:ARG:HG3	21:i5:77:A:N3	2.20	0.56
12:J5:40:LYS:HG3	20:e5:34:ARG:NH1	2.21	0.56
12:J5:80:ARG:NH2	21:i5:818:A:OP1	2.38	0.56
22:A5:104:THR:O	22:A5:107:THR:OG1	2.20	0.56
9:g6:21:ILE:HB	9:g6:290:ALA:HB2	1.85	0.56
10:C6:273:LEU:HD13	10:C6:280:VAL:CB	2.35	0.56
29:K6:80:ARG:HH21	29:K6:87:PRO:HA	1.69	0.56
31:P6:133:ILE:HG22	31:P6:134:GLY:H	1.69	0.56
36:k1:146:GLY:N	36:k1:167:ILE:HG13	2.21	0.56
36:k1:169:TYR:CE1	36:k1:172:ASP:HB3	2.41	0.56
36:k2:149:LYS:HE3	36:k2:165:GLU:OE1	2.06	0.56
36:k2:169:TYR:N	36:k2:169:TYR:CD2	2.74	0.56
36:k6:92:LEU:HD23	36:k6:93:PRO:HD2	1.87	0.56
1:T1:121:ARG:HH11	21:i1:1563:G:H5'	1.71	0.56
9:g1:82:SER:OG	9:g1:84:ASP:OD1	2.21	0.56
21:i1:1821:U:O4	21:i1:1822:A:N6	2.39	0.56
3:V2:16:LYS:H	10:C2:259:THR:HG21	1.71	0.56
8:f2:126:CYS:HB2	8:f2:130:VAL:HB	1.87	0.56
9:g2:242:SER:HB2	9:g2:247:TRP:HB2	1.86	0.56
10:C2:273:LEU:HD13	10:C2:280:VAL:CB	2.35	0.56
17:Y2:113:ARG:HA	17:Y2:116:LYS:NZ	2.21	0.56
21:i2:23:G:O2'	21:i2:416:U:OP1	2.24	0.56
21:i2:794:A:H2'	21:i2:795:A:H4'	1.87	0.56
21:i2:969:U:C6	28:I4:161:LEU:HD21	2.41	0.56
25:E2:238:LEU:HD11	25:E2:242:LYS:HG2	1.86	0.56
21:i3:733:C:C4	27:H3:149:ASP:HB3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1189:A:H2'	21:i3:1190:A:C8	2.41	0.56
22:A3:3:GLY:HA3	22:A3:8:LEU:HD11	1.87	0.56
31:P3:15:PHE:CD1	31:P3:16:THR:N	2.73	0.56
11:G4:219:GLU:O	11:G4:223:LYS:N	2.37	0.56
12:J4:65:GLU:HA	12:J4:70:ARG:HD3	1.86	0.56
13:M4:36:ARG:HH22	21:i4:1310:U:H5	1.32	0.56
19:b4:21:LYS:C	19:b4:23:ARG:H	2.14	0.56
21:i4:23:G:O2'	21:i4:416:U:OP1	2.24	0.56
21:i4:1259:A:O2'	21:i4:1518:C:N4	2.39	0.56
31:P4:15:PHE:O	31:P4:16:THR:OG1	2.18	0.56
18:Z5:46:ASN:HB3	18:Z5:80:ARG:CA	2.16	0.56
22:A5:180:ARG:O	22:A5:184:ARG:HG2	2.06	0.56
23:B5:97:LEU:HD22	23:B5:232:HIS:NE2	2.20	0.56
31:P5:17:TYR:CD2	31:P5:112:ILE:HD11	2.41	0.56
1:T6:24:LYS:HG2	1:T6:25:SER:H	1.71	0.56
4:X6:40:PRO:HG2	4:X6:120:PHE:HE2	1.71	0.56
11:G6:164:LYS:HG2	11:G6:166:GLY:H	1.71	0.56
12:J6:11:LYS:NZ	12:J6:13:TYR:O	2.30	0.56
21:i6:1069:U:P	36:k6:18:LYS:HZ1	2.29	0.56
23:B6:198:GLU:OE2	23:B6:210:VAL:HB	2.06	0.56
36:k2:7:GLU:CD	36:k2:177:MET:HA	2.30	0.56
36:k2:110:ASN:N	36:k2:166:ASN:HD22	2.00	0.56
36:k3:22:ILE:CG1	36:k3:50:VAL:CG2	2.72	0.56
36:k4:145:VAL:HG12	36:k4:167:ILE:CG1	2.26	0.56
36:k6:146:GLY:C	36:k6:167:ILE:HD11	2.30	0.56
37:l1:136:THR:CG2	37:l1:137:PHE:HA	2.36	0.56
37:l2:128:VAL:HG11	37:l2:165:ILE:HA	1.86	0.56
37:l3:178:ILE:CG1	37:l3:190:ILE:HG21	2.34	0.56
37:l5:178:ILE:CD1	37:l5:190:ILE:HG22	2.17	0.56
37:l6:117:ILE:O	37:l6:118:ALA:HB3	2.05	0.56
11:G1:50:VAL:HB	11:G1:111:LEU:HD11	1.88	0.56
11:G1:65:GLN:NE2	21:i1:1746:U:O4'	2.39	0.56
13:M1:36:ARG:NE	21:i1:1310:U:C6	2.69	0.56
13:M1:36:ARG:HH12	21:i1:1310:U:H5	1.20	0.56
13:M1:116:LYS:O	13:M1:117:GLU:HB2	2.05	0.56
15:O1:99:ALA:H	15:O1:133:THR:HB	1.71	0.56
21:i1:554:A:C2	21:i1:557:U:C4	2.93	0.56
21:i1:1070:A:OP1	36:k1:19:THR:N	2.39	0.56
26:F1:137:GLN:CB	26:F1:204:ARG:CA	2.80	0.56
27:H1:95:ILE:HD11	27:H1:133:LEU:HD21	1.87	0.56
28:I1:10:LYS:HE2	30:L1:136:LYS:HE3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:L1:124:ASP:CB	30:L1:147:LYS:CB	2.58	0.56
4:X2:40:PRO:HG2	4:X2:120:PHE:HE2	1.71	0.56
4:X2:91:LEU:HD21	20:e2:6:LEU:CG	2.35	0.56
8:f2:78:LYS:HG3	8:f2:78:LYS:O	2.05	0.56
10:C2:270:THR:HG22	22:A2:69:GLU:HG3	1.87	0.56
18:Z2:46:ASN:HB3	18:Z2:80:ARG:CA	2.16	0.56
21:i2:798:A:H4'	27:H2:109:ARG:HG2	1.85	0.56
21:i2:1781:A:N3	21:i2:1781:A:H2'	2.21	0.56
21:i2:1821:U:O4	21:i2:1822:A:N6	2.39	0.56
23:B2:122:GLU:HG2	23:B2:140:VAL:HG12	1.87	0.56
26:F2:127:ARG:NE	26:F2:128:ILE:HG23	2.17	0.56
8:f3:126:CYS:HB2	8:f3:130:VAL:HB	1.87	0.56
12:J3:118:GLY:O	12:J3:120:ALA:N	2.39	0.56
13:M3:27:ILE:HG22	29:K3:84:HIS:CE1	2.31	0.56
21:i3:1172:U:C5'	35:j3:10:MET:CE	2.82	0.56
21:i3:1374:C:O2'	21:i3:1464:C:O2	2.19	0.56
22:A3:68:ILE:HG22	22:A3:70:ASN:H	1.71	0.56
23:B3:132:GLY:HA3	23:B3:221:PRO:HG3	1.88	0.56
28:I3:150:ASP:O	28:I3:154:LYS:NZ	2.39	0.56
30:L3:153:LYS:O	30:L3:153:LYS:HD2	2.05	0.56
8:f4:96:LYS:CD	21:i4:1307:U:C5	2.88	0.56
9:g4:147:HIS:ND1	9:g4:171:ASP:HB2	2.21	0.56
11:G4:164:LYS:HG2	11:G4:166:GLY:H	1.71	0.56
11:G4:216:ARG:HG3	11:G4:223:LYS:HZ2	1.70	0.56
12:J4:118:GLY:O	12:J4:120:ALA:N	2.39	0.56
21:i4:33:G:H1	21:i4:522:A:H2	1.52	0.56
21:i4:375:U:H3	21:i4:389:A:H61	1.54	0.56
21:i4:1348:G:H22	21:i4:1381:G:H22	1.53	0.56
21:i4:1377:U:H5	22:A4:102:ARG:NE	1.96	0.56
1:T5:101:ARG:HH22	21:i5:1566:G:H8	1.53	0.56
4:X5:11:ARG:NH1	21:i5:400:C:OP2	2.38	0.56
10:C5:273:LEU:HB3	10:C5:280:VAL:HG12	1.84	0.56
11:G5:141:ILE:HG12	11:G5:144:LEU:CD2	1.94	0.56
11:G5:219:GLU:O	11:G5:223:LYS:N	2.37	0.56
21:i5:1497:G:N7	29:K5:25:LYS:NZ	2.52	0.56
28:I5:196:GLU:C	28:I5:200:ARG:HG3	2.23	0.56
29:K5:80:ARG:HH21	29:K5:87:PRO:HA	1.69	0.56
34:S5:74:PRO:HA	34:S5:79:ILE:HD12	1.88	0.56
4:X6:140:ARG:HH22	4:X6:142:ARG:HH11	1.53	0.56
8:f6:126:CYS:HB2	8:f6:130:VAL:HB	1.87	0.56
10:C6:221:ASP:OD1	10:C6:222:CYS:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J6:80:ARG:NH2	21:i6:818:A:OP1	2.38	0.56
18:Z6:88:LEU:HD22	18:Z6:109:TYR:HE2	1.71	0.56
21:i6:315:C:O5'	21:i6:315:C:H6	1.89	0.56
27:H6:20:GLU:O	27:H6:24:SER:N	2.36	0.56
36:k2:17:LEU:HB2	36:k2:50:VAL:CG2	2.33	0.56
36:k2:83:ARG:NE	36:k2:175:TRP:CE3	2.74	0.56
36:k3:17:LEU:HB2	36:k3:50:VAL:CG2	2.33	0.56
36:k5:140:GLN:NE2	36:k5:141:HIS:ND1	2.53	0.56
37:l3:139:ILE:HG22	37:l3:140:ASP:N	2.20	0.56
37:l5:139:ILE:HG22	37:l5:140:ASP:N	2.21	0.56
10:C1:221:ASP:OD1	10:C1:222:CYS:N	2.39	0.55
10:C1:277:HIS:O	10:C1:279:ARG:N	2.36	0.55
21:i1:1622:U:H3'	21:i1:1623:A:H4'	1.87	0.55
21:i1:1842:C:C2'	35:j1:4:LYS:NZ	2.69	0.55
23:B1:198:GLU:OE2	23:B1:210:VAL:HB	2.06	0.55
21:i2:187:G:C6	21:i2:213:G:N1	2.74	0.55
21:i2:561:A:C2	21:i2:562:U:C2	2.94	0.55
21:i2:1171:G:N2	21:i2:1188:A:OP2	2.36	0.55
21:i2:1594:A:P	32:Q2:45:ARG:HH21	2.29	0.55
27:H2:116:ARG:NH2	27:H2:121:THR:HA	2.21	0.55
33:R2:81:ARG:HG2	33:R2:81:ARG:NH1	2.20	0.55
13:M3:36:ARG:HH22	21:i3:1310:U:H5	1.32	0.55
13:M3:93:LYS:HB2	13:M3:102:LYS:HB3	1.87	0.55
19:b3:36:LYS:HE2	19:b3:80:ARG:HD2	1.88	0.55
20:e3:36:MET:HE3	21:i3:552:G:OP1	2.07	0.55
3:V4:16:LYS:H	10:C4:259:THR:HG21	1.71	0.55
9:g4:300:ALA:HB3	9:g4:310:TRP:HZ3	1.69	0.55
11:G4:186:GLN:NE2	21:i4:331:C:N4	2.53	0.55
14:N4:39:LYS:HA	14:N4:42:LYS:NZ	2.21	0.55
16:W4:56:HIS:O	21:i4:918:U:O2'	2.24	0.55
18:Z4:88:LEU:HB3	18:Z4:109:TYR:CZ	2.41	0.55
20:e4:48:THR:CA	20:e4:49:PHE:HB2	2.31	0.55
23:B4:175:GLU:O	23:B4:178:THR:OG1	2.19	0.55
30:L4:40:ILE:HG12	30:L4:68:ILE:HD13	1.86	0.55
4:X5:140:ARG:HH22	4:X5:142:ARG:HH11	1.53	0.55
8:f5:105:TYR:CE1	8:f5:131:PHE:CB	2.85	0.55
21:i5:61:A:H2	21:i5:334:C:N3	2.04	0.55
21:i5:1348:G:H22	21:i5:1381:G:N2	2.04	0.55
28:I5:150:ASP:O	28:I5:154:LYS:NZ	2.39	0.55
30:L5:152:LYS:HE3	30:L5:154:GLN:NE2	2.21	0.55
1:T6:121:ARG:HH11	21:i6:1563:G:H5'	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g6:147:HIS:ND1	9:g6:171:ASP:HB2	2.21	0.55
21:i6:1236:G:C5'	31:P6:133:ILE:CD1	2.49	0.55
23:B6:22:VAL:HG12	23:B6:22:VAL:O	2.05	0.55
30:L6:4:ILE:HD13	30:L6:55:TYR:HA	1.88	0.55
31:P6:114:HIS:HB3	31:P6:119:PHE:HE2	1.70	0.55
32:Q6:102:GLU:HG2	32:Q6:106:LYS:HE2	1.88	0.55
34:S6:50:ILE:HD12	34:S6:67:VAL:HG21	1.87	0.55
34:S6:74:PRO:HA	34:S6:79:ILE:HD12	1.88	0.55
36:k6:174:LEU:O	36:k6:177:MET:N	2.39	0.55
37:l1:120:ILE:HG22	37:l1:121:PRO:CD	2.36	0.55
37:l2:139:ILE:HG22	37:l2:140:ASP:N	2.20	0.55
37:l2:178:ILE:CG1	37:l2:190:ILE:HG21	2.34	0.55
1:T1:24:LYS:HG2	1:T1:25:SER:H	1.71	0.55
1:T1:101:ARG:HH22	21:i1:1566:G:H8	1.53	0.55
5:a1:101:PHE:C	5:a1:102:ARG:HD2	2.31	0.55
10:C1:139:LEU:HD21	10:C1:238:LYS:HG3	1.87	0.55
15:O1:61:LYS:HE3	15:O1:76:LEU:HD13	1.88	0.55
17:Y1:113:ARG:HA	17:Y1:116:LYS:NZ	2.22	0.55
21:i1:291:G:N2	21:i1:293:C:OP2	2.36	0.55
21:i1:528:A:C2	21:i1:558:G:N1	2.73	0.55
23:B1:110:MET:HE3	23:B1:213:ARG:HG3	1.89	0.55
23:B1:189:ILE:HB	23:B1:190:PRO:HD3	1.87	0.55
27:H1:116:ARG:NH2	27:H1:121:THR:HA	2.21	0.55
1:T2:24:LYS:HG2	1:T2:25:SER:H	1.72	0.55
5:a2:40:VAL:HG22	5:a2:69:VAL:O	2.05	0.55
18:Z2:82:SER:CB	21:i2:1598:G:C2'	2.72	0.55
19:b2:36:LYS:HE2	19:b2:80:ARG:HD2	1.88	0.55
20:e2:45:VAL:CB	21:i2:535:G:C5'	2.81	0.55
21:i2:375:U:H3	21:i2:389:A:H61	1.54	0.55
21:i2:1348:G:H22	21:i2:1381:G:N2	2.04	0.55
21:i2:1777:G:H2'	21:i2:1778:C:C2	2.40	0.55
22:A2:180:ARG:O	22:A2:184:ARG:HG2	2.06	0.55
23:B2:110:MET:HE3	23:B2:213:ARG:HG3	1.88	0.55
33:R2:52:GLY:O	33:R2:55:THR:OG1	2.20	0.55
4:X3:70:VAL:O	4:X3:83:ALA:N	2.36	0.55
6:c3:23:SER:HB3	26:F3:127:ARG:HG2	1.88	0.55
9:g3:131:LEU:HB3	9:g3:139:LYS:HB3	1.88	0.55
28:I3:206:LYS:O	36:k1:12:SER:OG	2.24	0.55
29:K3:57:TYR:O	29:K3:72:THR:OG1	2.20	0.55
33:R3:65:PRO:HB3	33:R3:73:LEU:HD23	1.88	0.55
6:c4:23:SER:HB3	26:F4:127:ARG:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:78:LYS:O	8:f4:78:LYS:HG3	2.06	0.55
9:g4:131:LEU:HB3	9:g4:139:LYS:HB3	1.89	0.55
9:g4:147:HIS:CE1	9:g4:173:LEU:HB2	2.30	0.55
15:O4:61:LYS:HE3	15:O4:76:LEU:HD13	1.88	0.55
21:i4:533:A:H61	21:i4:552:G:H1'	1.72	0.55
21:i4:1236:G:H4'	31:P4:132:GLY:O	2.06	0.55
24:D4:132:LYS:HG3	24:D4:191:PRO:HB3	1.88	0.55
8:f5:105:TYR:CZ	8:f5:131:PHE:HD2	2.10	0.55
13:M5:93:LYS:HB2	13:M5:102:LYS:HB3	1.87	0.55
18:Z5:42:ASP:O	21:i5:1600:G:H5'	2.06	0.55
21:i5:332:G:O5'	21:i5:332:G:H8	1.88	0.55
21:i5:1821:U:O4	21:i5:1822:A:N6	2.39	0.55
3:V6:16:LYS:H	10:C6:259:THR:HG21	1.70	0.55
4:X6:11:ARG:NH1	21:i6:400:C:OP2	2.38	0.55
11:G6:149:LYS:HB2	11:G6:149:LYS:HZ3	1.71	0.55
21:i6:23:G:O2'	21:i6:416:U:OP1	2.24	0.55
21:i6:291:G:N2	21:i6:293:C:OP2	2.36	0.55
21:i6:1189:A:H2'	21:i6:1190:A:C8	2.41	0.55
22:A6:3:GLY:HA3	22:A6:8:LEU:HD11	1.87	0.55
22:A6:180:ARG:O	22:A6:184:ARG:HG2	2.06	0.55
36:k3:174:LEU:O	36:k3:175:TRP:C	2.47	0.55
36:k4:95:GLN:CD	36:k4:164:ILE:CD1	2.75	0.55
36:k4:169:TYR:CZ	36:k4:172:ASP:CB	2.89	0.55
36:k4:174:LEU:O	36:k4:177:MET:N	2.40	0.55
36:k5:169:TYR:N	36:k5:169:TYR:CD2	2.74	0.55
4:X1:68:LYS:HG2	4:X1:91:LEU:HD22	1.88	0.55
4:X1:140:ARG:HH22	4:X1:142:ARG:HH11	1.53	0.55
10:C1:273:LEU:HB3	10:C1:280:VAL:HG12	1.84	0.55
21:i1:500:A:H3'	21:i1:501:C:H6	1.70	0.55
21:i1:1750:C:O2	21:i1:1784:G:C6	2.59	0.55
26:F1:88:MET:HE3	26:F1:91:ARG:NH2	2.20	0.55
34:S1:98:VAL:HG11	34:S1:106:LYS:HD2	1.89	0.55
1:T2:42:HIS:CD2	1:T2:81:GLY:H	2.23	0.55
7:d2:22:ARG:NH1	7:d2:38:MET:SD	2.80	0.55
9:g2:131:LEU:HB3	9:g2:139:LYS:HB3	1.88	0.55
18:Z2:48:VAL:HB	18:Z2:83:LEU:HD11	1.89	0.55
21:i2:187:G:C2	21:i2:213:G:C4	2.94	0.55
21:i2:318:A:C5	21:i2:333:G:N2	2.75	0.55
21:i2:1523:C:C5	34:S2:141:ARG:NH2	2.74	0.55
21:i2:1772:C:O2'	34:S5:108:ARG:CD	2.53	0.55
21:i2:1844:U:O4	35:j2:4:LYS:HE3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I2:79:ILE:HG21	28:I2:170:LYS:HZ2	1.72	0.55
30:L2:121:GLN:CG	30:L2:153:LYS:HE3	2.34	0.55
8:f3:95:ARG:CD	21:i3:1289:U:C5'	2.76	0.55
9:g3:79:LEU:HD11	9:g3:120:ILE:HD13	1.89	0.55
16:W3:118:ARG:CD	21:i3:735:C:O2'	2.55	0.55
18:Z3:48:VAL:HB	18:Z3:83:LEU:HD11	1.89	0.55
20:e3:51:LYS:O	20:e3:52:LYS:HB2	2.05	0.55
21:i3:1821:U:O4	21:i3:1822:A:N6	2.39	0.55
22:A3:180:ARG:O	22:A3:184:ARG:HG2	2.06	0.55
34:S3:74:PRO:HA	34:S3:79:ILE:HD12	1.88	0.55
9:g4:178:ASN:HB2	9:g4:182:CYS:HA	1.88	0.55
11:G4:154:ARG:HG3	21:i4:77:A:N3	2.20	0.55
14:N4:72:LEU:HD22	21:i4:1019:C:H5''	1.89	0.55
20:e4:8:ARG:HD2	20:e4:11:LYS:HD3	1.88	0.55
26:F4:127:ARG:CB	26:F4:128:ILE:HA	2.24	0.55
33:R4:52:GLY:O	33:R4:55:THR:OG1	2.20	0.55
1:T5:97:LYS:NZ	21:i5:1570:G:N7	2.42	0.55
7:d5:22:ARG:NH1	7:d5:38:MET:SD	2.80	0.55
9:g5:79:LEU:HD11	9:g5:120:ILE:HD13	1.89	0.55
11:G5:189:ARG:NH1	21:i5:329:G:C8	2.62	0.55
21:i5:1208:A:C2	21:i5:1209:A:C5	2.95	0.55
23:B5:110:MET:HE3	23:B5:213:ARG:HG3	1.88	0.55
27:H5:20:GLU:O	27:H5:24:SER:N	2.36	0.55
4:X6:17:ARG:HH22	21:i6:659:G:N2	2.03	0.55
8:f6:87:THR:CG2	8:f6:90:LYS:HZ1	2.08	0.55
8:f6:95:ARG:CD	21:i6:1289:U:C5'	2.76	0.55
19:b6:21:LYS:O	19:b6:23:ARG:N	2.38	0.55
20:e6:31:ARG:NH1	21:i6:525:A:H4'	2.21	0.55
21:i6:1357:A:H8	21:i6:1357:A:O5'	1.89	0.55
21:i6:1821:U:O4	21:i6:1822:A:N6	2.39	0.55
21:i6:1828:C:H5'	37:l6:154:CYS:SG	2.47	0.55
36:k1:140:GLN:NE2	36:k1:141:HIS:ND1	2.53	0.55
36:k2:14:CYS:CB	36:k2:180:TYR:CE2	2.89	0.55
36:k2:140:GLN:NE2	36:k2:141:HIS:ND1	2.53	0.55
36:k5:174:LEU:O	36:k5:177:MET:N	2.39	0.55
36:k6:94:HIS:C	36:k6:133:ALA:O	2.47	0.55
37:l1:142:LYS:HE3	37:l1:146:ARG:HH11	1.70	0.55
37:l5:118:ALA:O	37:l5:129:THR:HG22	2.07	0.55
9:g1:79:LEU:HD11	9:g1:120:ILE:HD13	1.89	0.55
9:g1:147:HIS:ND1	9:g1:171:ASP:HB2	2.21	0.55
9:g1:178:ASN:HB2	9:g1:182:CYS:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G1:154:ARG:HG3	21:i1:77:A:N3	2.20	0.55
21:i1:1594:A:P	32:Q1:45:ARG:HH21	2.29	0.55
21:i1:1766:C:P	31:P6:12:PHE:CE2	3.00	0.55
5:a2:101:PHE:C	5:a2:102:ARG:HD2	2.31	0.55
10:C2:91:SER:O	10:C2:94:ILE:HG22	2.07	0.55
20:e2:51:LYS:O	20:e2:52:LYS:HB2	2.05	0.55
22:A2:3:GLY:HA3	22:A2:8:LEU:HD11	1.88	0.55
26:F2:63:LYS:HG3	26:F2:71:ARG:HH22	1.70	0.55
9:g3:82:SER:OG	9:g3:84:ASP:OD1	2.21	0.55
11:G3:189:ARG:NE	21:i3:331:C:H41	2.04	0.55
13:M3:116:LYS:O	13:M3:117:GLU:HB2	2.05	0.55
14:N3:130:LYS:HZ3	14:N3:140:LYS:CD	2.19	0.55
15:O3:61:LYS:HE3	15:O3:76:LEU:HD13	1.88	0.55
23:B3:110:MET:HE3	23:B3:213:ARG:HG3	1.89	0.55
27:H3:12:ASN:OD1	27:H3:14:GLU:HG2	2.05	0.55
34:S3:50:ILE:HD12	34:S3:67:VAL:HG21	1.88	0.55
34:S3:98:VAL:HG11	34:S3:106:LYS:HD2	1.89	0.55
2:U4:118:ASP:O	2:U4:119:ALA:HB3	2.07	0.55
11:G4:70:HIS:ND1	11:G4:103:ASP:OD1	2.40	0.55
14:N4:17:PRO:O	14:N4:20:ARG:NH1	2.30	0.55
21:i4:211:G:C4	21:i4:212:C:C2	2.95	0.55
21:i4:1348:G:H22	21:i4:1381:G:N2	2.04	0.55
22:A4:68:ILE:HG22	22:A4:70:ASN:H	1.71	0.55
23:B4:110:MET:HE3	23:B4:213:ARG:HG3	1.89	0.55
8:f5:92:LYS:HD3	21:i5:1272:C:OP1	2.07	0.55
11:G5:70:HIS:ND1	11:G5:103:ASP:OD1	2.40	0.55
12:J5:118:GLY:O	12:J5:120:ALA:N	2.39	0.55
18:Z5:82:SER:CB	21:i5:1598:G:C2'	2.72	0.55
21:i5:1852:C:C6	35:j5:5:TRP:NE1	2.75	0.55
30:L5:4:ILE:HD13	30:L5:55:TYR:HA	1.88	0.55
31:P5:34:MET:HE3	31:P5:46:ASN:HB2	1.88	0.55
8:f6:100:LEU:HD11	21:i6:1285:G:H5'	1.87	0.55
10:C6:141:VAL:O	10:C6:142:LYS:HG3	2.05	0.55
10:C6:145:LYS:HD2	21:i6:1348:G:O4'	2.06	0.55
13:M6:93:LYS:HB2	13:M6:102:LYS:HB3	1.88	0.55
15:O6:96:LYS:NZ	15:O6:130:GLU:OE1	2.36	0.55
18:Z6:82:SER:N	21:i6:1598:G:O2'	2.40	0.55
22:A6:104:THR:O	22:A6:107:THR:OG1	2.20	0.55
25:E6:11:ARG:HH11	25:E6:20:LEU:HB3	1.72	0.55
36:k3:174:LEU:O	36:k3:177:MET:N	2.39	0.55
37:l4:128:VAL:HG12	37:l4:129:THR:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l6:128:VAL:HG12	37:l6:129:THR:H	1.71	0.55
7:d1:22:ARG:NH1	7:d1:38:MET:SD	2.80	0.55
9:g1:34:ALA:HB2	9:g1:40:ILE:HG23	1.88	0.55
14:N1:133:ARG:CD	30:L1:152:LYS:HG3	2.35	0.55
20:e1:43:VAL:HG11	21:i1:551:U:H4'	1.87	0.55
21:i1:739:C:N3	21:i1:746:C:N4	2.54	0.55
21:i1:932:G:O2'	21:i1:934:G:OP2	2.23	0.55
21:i1:1265:A:H2	21:i1:1517:G:H22	1.55	0.55
21:i1:1523:C:C5	34:S1:141:ARG:NH2	2.75	0.55
21:i1:1754:G:O6	21:i1:1779:G:C2	2.60	0.55
22:A1:3:GLY:HA3	22:A1:8:LEU:HD11	1.88	0.55
23:B1:22:VAL:O	23:B1:22:VAL:HG12	2.05	0.55
25:E1:231:GLY:O	25:E1:233:LYS:N	2.37	0.55
9:g2:79:LEU:HD11	9:g2:120:ILE:HD13	1.89	0.55
11:G2:154:ARG:HG3	21:i2:77:A:N3	2.20	0.55
13:M2:36:ARG:HH22	21:i2:1310:U:H5	1.32	0.55
15:O2:99:ALA:H	15:O2:133:THR:HB	1.71	0.55
28:I2:150:ASP:O	28:I2:154:LYS:NZ	2.39	0.55
9:g3:153:CYS:HB2	9:g3:197:THR:HA	1.88	0.55
12:J3:127:ARG:NH2	21:i3:523:A:OP2	2.36	0.55
14:N3:135:LEU:HB3	14:N3:136:PRO:CD	2.36	0.55
21:i3:1182:A:H5''	35:j3:15:ARG:CD	2.36	0.55
23:B3:138:PHE:O	23:B3:213:ARG:N	2.39	0.55
33:R3:81:ARG:HG2	33:R3:81:ARG:NH1	2.20	0.55
1:T4:116:ASP:HB2	1:T4:120:GLY:HA3	1.89	0.55
10:C4:91:SER:O	10:C4:94:ILE:HG22	2.07	0.55
18:Z4:82:SER:N	21:i4:1598:G:O2'	2.40	0.55
21:i4:1523:C:C5	34:S4:141:ARG:NH2	2.75	0.55
31:P4:30:TYR:O	31:P4:33:LEU:HB2	2.07	0.55
2:U5:118:ASP:O	2:U5:119:ALA:HB3	2.07	0.55
5:a5:102:ARG:N	5:a5:103:PRO:HA	2.20	0.55
9:g5:131:LEU:HB3	9:g5:139:LYS:HB3	1.89	0.55
11:G5:190:ARG:NH1	21:i5:332:G:N7	2.55	0.55
11:G5:230:LYS:O	11:G5:234:LEU:N	2.37	0.55
21:i5:1189:A:H2'	21:i5:1190:A:C8	2.41	0.55
21:i5:1204:A:HO2'	21:i5:1700:C:P	2.29	0.55
21:i5:1259:A:O2'	21:i5:1518:C:N4	2.39	0.55
26:F5:88:MET:HB2	26:F5:91:ARG:HH21	1.71	0.55
26:F5:179:ASN:HB2	26:F5:187:SER:HB3	1.89	0.55
5:a6:101:PHE:C	5:a6:102:ARG:HD2	2.31	0.55
15:O6:99:ALA:H	15:O6:133:THR:HB	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y6:113:ARG:HA	17:Y6:116:LYS:NZ	2.22	0.55
20:e6:51:LYS:O	20:e6:52:LYS:HB2	2.05	0.55
23:B6:110:MET:HE3	23:B6:213:ARG:HG3	1.88	0.55
25:E6:112:HIS:NE2	25:E6:237:SER:O	2.38	0.55
36:k1:11:VAL:CG2	36:k1:177:MET:HE1	2.37	0.55
36:k3:106:LEU:CD2	36:k3:169:TYR:HD1	2.19	0.55
37:l2:148:PHE:CZ	37:l2:156:ALA:CB	2.90	0.55
37:l3:117:ILE:O	37:l3:118:ALA:HB3	2.05	0.55
37:l3:127:TYR:O	37:l3:169:ASP:CA	2.43	0.55
37:l3:148:PHE:CZ	37:l3:156:ALA:CB	2.90	0.55
2:U1:118:ASP:O	2:U1:119:ALA:HB3	2.07	0.55
14:N1:39:LYS:HA	14:N1:42:LYS:NZ	2.21	0.55
21:i1:533:A:H61	21:i1:552:G:H1'	1.72	0.55
21:i1:688:U:C1'	21:i1:689:U:P	2.94	0.55
21:i1:1348:G:H22	21:i1:1381:G:N2	2.04	0.55
23:B1:175:GLU:O	23:B1:178:THR:OG1	2.19	0.55
25:E1:201:HIS:HB3	25:E1:204:SER:HB3	1.88	0.55
28:I1:125:LYS:CD	15:O6:66:ARG:NE	2.63	0.55
34:S1:105:ASN:ND2	21:i3:1761:U:HO2'	2.02	0.55
11:G2:164:LYS:HG2	11:G2:166:GLY:H	1.71	0.55
14:N2:150:VAL:CG1	14:N2:151:ALA:H	2.14	0.55
16:W2:72:CYS:SG	16:W2:73:GLY:N	2.73	0.55
18:Z2:82:SER:HA	21:i2:1598:G:C2'	2.30	0.55
19:b2:21:LYS:O	19:b2:23:ARG:N	2.38	0.55
21:i2:1003:U:O3'	23:B2:165:ARG:NH2	2.40	0.55
23:B2:34:LYS:NZ	23:B2:95:ASN:OD1	2.28	0.55
24:D2:135:GLU:OE2	24:D2:159:HIS:NE2	2.36	0.55
27:H2:95:ILE:HD11	27:H2:133:LEU:HD21	1.87	0.55
34:S2:98:VAL:HG11	34:S2:106:LYS:HD2	1.89	0.55
4:X3:61:GLN:CD	21:i3:1824:A:N7	2.62	0.55
11:G3:154:ARG:HG3	21:i3:77:A:N3	2.20	0.55
21:i3:1184:G:P	35:j3:11:ARG:NH2	2.76	0.55
21:i3:1348:G:H22	21:i3:1381:G:H22	1.53	0.55
21:i3:1523:C:C5	34:S3:141:ARG:NH2	2.74	0.55
21:i3:1594:A:P	32:Q3:45:ARG:HH21	2.29	0.55
5:a4:101:PHE:C	5:a4:102:ARG:HD2	2.31	0.55
7:d4:22:ARG:NH1	7:d4:38:MET:SD	2.80	0.55
20:e4:56:ASN:HB3	21:i4:606:G:H5''	1.89	0.55
21:i4:1574:C:N4	21:i4:1575:G:O6	2.40	0.55
22:A4:3:GLY:HA3	22:A4:8:LEU:HD11	1.88	0.55
23:B4:198:GLU:OE2	23:B4:210:VAL:HB	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E4:201:HIS:HB3	25:E4:204:SER:HB3	1.88	0.55
26:F4:88:MET:HB2	26:F4:91:ARG:HH21	1.71	0.55
1:T5:24:LYS:HG2	1:T5:25:SER:H	1.72	0.55
1:T5:42:HIS:NE2	1:T5:82:ARG:O	2.39	0.55
2:U5:49:LYS:O	2:U5:51:LYS:N	2.36	0.55
3:V5:70:LEU:O	3:V5:74:LYS:HG2	2.07	0.55
4:X5:53:GLU:HB2	4:X5:71:ARG:HB2	1.88	0.55
5:a5:101:PHE:C	5:a5:102:ARG:HD2	2.31	0.55
10:C5:221:ASP:OD1	10:C5:222:CYS:N	2.40	0.55
15:O5:61:LYS:HE3	15:O5:76:LEU:HD13	1.88	0.55
18:Z5:82:SER:N	21:i5:1598:G:O2'	2.40	0.55
21:i5:533:A:H61	21:i5:552:G:H1'	1.72	0.55
21:i5:1069:U:H5''	36:k5:16:GLN:O	2.07	0.55
21:i5:1523:C:C5	34:S5:141:ARG:NH2	2.75	0.55
22:A5:6:ASP:O	22:A5:9:GLN:NE2	2.34	0.55
27:H5:116:ARG:NH2	27:H5:121:THR:HA	2.21	0.55
33:R5:81:ARG:HG2	33:R5:81:ARG:NH1	2.21	0.55
2:U6:87:ARG:NH1	21:i6:1447:G:OP1	2.36	0.55
7:d6:22:ARG:NH1	7:d6:38:MET:SD	2.80	0.55
21:i6:668:A:H5'	21:i6:669:A:OP2	2.06	0.55
21:i6:1300:U:O4	31:P6:51:ARG:HD2	1.98	0.55
21:i6:1523:C:C5	34:S6:141:ARG:NH2	2.74	0.55
21:i6:1597:C:H2'	21:i6:1598:G:C8	2.41	0.55
23:B6:189:ILE:HB	23:B6:190:PRO:HD3	1.87	0.55
27:H6:116:ARG:NH2	27:H6:121:THR:HA	2.21	0.55
36:k1:92:LEU:CD2	36:k1:93:PRO:HD2	2.36	0.55
36:k1:169:TYR:CD2	36:k1:169:TYR:N	2.73	0.55
36:k2:145:VAL:H	36:k2:167:ILE:HB	1.65	0.55
36:k6:95:GLN:CD	36:k6:164:ILE:HD11	2.30	0.55
36:k6:169:TYR:N	36:k6:169:TYR:CD2	2.73	0.55
37:l6:148:PHE:CZ	37:l6:156:ALA:CB	2.90	0.55
18:Z1:48:VAL:HB	18:Z1:83:LEU:HD11	1.89	0.55
21:i1:1070:A:OP1	36:k1:18:LYS:CA	2.55	0.55
21:i1:1210:G:N2	21:i1:1690:U:C2	2.75	0.55
26:F1:137:GLN:HG3	26:F1:204:ARG:N	2.19	0.55
4:X2:81:ILE:HG21	4:X2:120:PHE:HD2	1.72	0.55
8:f2:105:TYR:OH	8:f2:131:PHE:CD2	2.59	0.55
21:i2:209:A:O2'	18:Z5:41:ARG:HA	2.06	0.55
21:i2:1348:G:H22	21:i2:1381:G:H22	1.53	0.55
21:i2:1574:C:N4	21:i2:1575:G:O6	2.40	0.55
34:S2:50:ILE:HD12	34:S2:67:VAL:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z3:82:SER:CB	21:i3:1598:G:C2'	2.72	0.55
18:Z3:88:LEU:HD22	18:Z3:109:TYR:HE2	1.71	0.55
20:e3:45:VAL:HB	21:i3:535:G:O2'	2.06	0.55
21:i3:23:G:O2'	21:i3:416:U:OP1	2.24	0.55
26:F3:195:GLU:OE1	28:I6:138:ASN:ND2	2.40	0.55
4:X4:53:GLU:HB2	4:X4:71:ARG:HB2	1.89	0.55
8:f4:80:ARG:CD	21:i4:1509:U:C4	2.74	0.55
8:f4:93:HIS:CG	21:i4:1304:U:H5'	2.38	0.55
8:f4:96:LYS:NZ	21:i4:1306:U:H3'	2.22	0.55
15:O4:99:ALA:H	15:O4:133:THR:HB	1.71	0.55
22:A4:180:ARG:O	22:A4:184:ARG:HG2	2.06	0.55
26:F4:137:GLN:HG3	26:F4:204:ARG:N	2.20	0.55
27:H4:52:GLU:HA	27:H4:58:LYS:HA	1.87	0.55
28:I4:150:ASP:O	28:I4:154:LYS:NZ	2.39	0.55
6:c5:23:SER:HB3	26:F5:127:ARG:HG2	1.88	0.55
8:f5:96:LYS:NZ	21:i5:1306:U:H3'	2.22	0.55
10:C5:273:LEU:HD13	10:C5:280:VAL:CB	2.35	0.55
11:G5:144:LEU:C	11:G5:144:LEU:HD12	2.32	0.55
18:Z5:88:LEU:HD22	18:Z5:109:TYR:HE2	1.71	0.55
21:i5:1208:A:N6	21:i5:1209:A:H62	2.05	0.55
22:A5:3:GLY:HA3	22:A5:8:LEU:HD11	1.87	0.55
25:E5:201:HIS:HB3	25:E5:204:SER:HB3	1.88	0.55
33:R5:58:MET:CA	33:R5:61:ILE:HG12	2.36	0.55
9:g6:109:LEU:HD22	9:g6:152:SER:HA	1.89	0.55
9:g6:178:ASN:HB2	9:g6:182:CYS:HA	1.88	0.55
21:i6:1356:G:H8	21:i6:1356:G:O5'	1.90	0.55
24:D6:76:ARG:O	24:D6:76:ARG:NH1	2.37	0.55
31:P6:30:TYR:O	31:P6:33:LEU:HB2	2.07	0.55
31:P6:111:MET:O	31:P6:111:MET:HG3	2.04	0.55
36:k4:33:PHE:CD1	36:k4:92:LEU:CG	2.89	0.55
36:k6:140:GLN:CG	36:k6:141:HIS:CE1	2.89	0.55
37:l2:120:ILE:HG22	37:l2:121:PRO:HD2	1.88	0.55
37:l2:128:VAL:HG12	37:l2:129:THR:H	1.71	0.55
37:l3:120:ILE:HG22	37:l3:121:PRO:HD2	1.88	0.55
37:l6:120:ILE:HG22	37:l6:121:PRO:HD2	1.88	0.55
2:U1:20:ILE:N	2:U1:91:LEU:O	2.28	0.55
3:V1:16:LYS:H	10:C1:259:THR:HG21	1.71	0.55
8:f1:95:ARG:CD	21:i1:1289:U:C5'	2.76	0.55
10:C1:273:LEU:HD13	10:C1:280:VAL:CB	2.35	0.55
12:J1:97:ILE:HA	12:J1:100:LEU:HD13	1.89	0.55
17:Y1:113:ARG:HH12	8:f2:110:GLU:C	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z1:82:SER:N	21:i1:1598:G:O2'	2.40	0.55
19:b1:44:THR:O	19:b1:45:THR:O	2.25	0.55
34:S1:74:PRO:HA	34:S1:79:ILE:HD12	1.88	0.55
9:g2:153:CYS:HB2	9:g2:197:THR:HA	1.88	0.55
13:M2:116:LYS:O	13:M2:117:GLU:HB2	2.05	0.55
21:i2:335:G:O5'	21:i2:335:G:H8	1.88	0.55
23:B2:198:GLU:OE2	23:B2:210:VAL:HB	2.06	0.55
26:F2:175:ASP:OD1	26:F2:176:GLU:N	2.40	0.55
4:X3:40:PRO:HG2	4:X3:120:PHE:HE2	1.71	0.55
8:f3:100:LEU:HD11	21:i3:1285:G:H5'	1.88	0.55
9:g3:147:HIS:ND1	9:g3:171:ASP:HB2	2.21	0.55
10:C3:91:SER:O	10:C3:94:ILE:HG22	2.07	0.55
11:G3:70:HIS:ND1	11:G3:103:ASP:OD1	2.40	0.55
16:W3:65:LEU:O	16:W3:67:GLY:N	2.40	0.55
21:i3:375:U:H3	21:i3:389:A:H61	1.54	0.55
21:i3:795:A:H5''	21:i3:797:C:H5	1.72	0.55
21:i3:1380:C:O2'	22:A3:113:GLN:HB3	2.06	0.55
25:E3:11:ARG:HH11	25:E3:20:LEU:HB3	1.72	0.55
26:F3:63:LYS:HG3	26:F3:71:ARG:HH22	1.70	0.55
26:F3:175:ASP:OD1	26:F3:176:GLU:N	2.40	0.55
1:T4:42:HIS:NE2	1:T4:82:ARG:O	2.39	0.55
11:G4:50:VAL:HB	11:G4:111:LEU:HD11	1.88	0.55
11:G4:142:ARG:CD	11:G4:147:LEU:HD12	2.32	0.55
20:e4:51:LYS:O	20:e4:52:LYS:HB2	2.05	0.55
26:F4:179:ASN:HB2	26:F4:187:SER:HB3	1.89	0.55
32:Q4:102:GLU:HG2	32:Q4:106:LYS:HE2	1.88	0.55
8:f5:96:LYS:NZ	21:i5:1306:U:O5'	2.28	0.55
14:N5:39:LYS:HA	14:N5:42:LYS:NZ	2.21	0.55
18:Z5:48:VAL:HB	18:Z5:83:LEU:HD11	1.89	0.55
21:i5:190:G:P	28:I5:148:LYS:CE	2.93	0.55
21:i5:318:A:C2	21:i5:333:G:C2	2.95	0.55
21:i5:1594:A:P	32:Q5:45:ARG:HH21	2.29	0.55
21:i5:1711:U:H2'	21:i5:1712:A:C8	2.42	0.55
23:B5:138:PHE:O	23:B5:213:ARG:N	2.39	0.55
24:D5:132:LYS:HG3	24:D5:191:PRO:HB3	1.88	0.55
31:P5:108:LYS:CB	31:P5:109:PRO:CD	2.64	0.55
8:f6:96:LYS:NZ	21:i6:1306:U:H3'	2.22	0.55
9:g6:79:LEU:HD11	9:g6:120:ILE:HD13	1.89	0.55
12:J6:118:GLY:O	12:J6:120:ALA:N	2.39	0.55
21:i6:317:C:H2'	21:i6:318:A:C8	2.40	0.55
36:k1:170:LEU:CD2	36:k1:171:ASN:N	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k5:114:PRO:HA	36:k5:117:THR:HG22	1.89	0.55
36:k6:83:ARG:NH1	36:k6:175:TRP:CZ2	2.75	0.55
10:C1:63:VAL:N	10:C1:90:GLU:OE2	2.40	0.55
12:J1:64:ASP:HB3	16:W1:117:ARG:HH21	1.72	0.55
14:N1:72:LEU:HD22	21:i1:1019:C:H5''	1.89	0.55
21:i1:334:C:OP1	21:i1:334:C:H4'	2.06	0.55
21:i1:375:U:H3	21:i1:389:A:H61	1.54	0.55
21:i1:1689:C:H2'	21:i1:1690:U:C5'	2.30	0.55
24:D1:53:THR:HA	24:D1:90:LYS:HG3	1.89	0.55
6:c2:23:SER:HB3	26:F2:127:ARG:HG2	1.88	0.55
10:C2:63:VAL:N	10:C2:90:GLU:OE2	2.40	0.55
15:O2:61:LYS:HE3	15:O2:76:LEU:HD13	1.88	0.55
18:Z2:42:ASP:O	21:i2:1600:G:H5'	2.06	0.55
18:Z2:88:LEU:HD22	18:Z2:109:TYR:HE2	1.72	0.55
23:B2:132:GLY:HA3	23:B2:221:PRO:HG3	1.88	0.55
26:F2:179:ASN:HB2	26:F2:187:SER:HB3	1.89	0.55
3:V3:16:LYS:H	10:C3:259:THR:HG21	1.71	0.55
6:c3:13:ARG:NH1	6:c3:33:GLU:OE1	2.33	0.55
9:g3:34:ALA:HB2	9:g3:40:ILE:HG23	1.88	0.55
14:N3:72:LEU:HD22	21:i3:1019:C:H5''	1.89	0.55
15:O3:99:ALA:H	15:O3:133:THR:HB	1.71	0.55
20:e3:28:LYS:HB3	21:i3:525:A:OP1	2.07	0.55
21:i3:537:C:OP1	21:i3:539:C:N4	2.40	0.55
21:i3:1172:U:H5'	35:j3:10:MET:HE3	1.89	0.55
30:L3:4:ILE:HD13	30:L3:55:TYR:HA	1.89	0.55
4:X4:81:ILE:HG21	4:X4:120:PHE:HD2	1.71	0.55
9:g4:34:ALA:HB2	9:g4:40:ILE:HG23	1.88	0.55
16:W4:65:LEU:O	16:W4:67:GLY:N	2.40	0.55
18:Z4:50:PHE:HB3	18:Z4:58:LEU:HD21	1.89	0.55
21:i4:1852:C:OP2	35:j4:1:MET:CB	2.45	0.55
33:R4:81:ARG:HG2	33:R4:81:ARG:NH1	2.20	0.55
15:O5:99:ALA:H	15:O5:133:THR:HB	1.71	0.55
21:i5:12:U:C1'	21:i5:1357:A:O4'	2.55	0.55
22:A5:211:GLU:HG3	33:R5:81:ARG:HH21	1.60	0.55
24:D5:53:THR:HA	24:D5:90:LYS:HG3	1.89	0.55
4:X6:5:ARG:NH2	21:i6:1159:G:OP2	2.35	0.55
4:X6:67:ARG:NH2	21:i6:617:G:N7	2.53	0.55
10:C6:63:VAL:N	10:C6:90:GLU:OE2	2.40	0.55
11:G6:144:LEU:C	11:G6:144:LEU:HD12	2.32	0.55
21:i6:739:C:C3'	21:i6:746:C:H42	2.20	0.55
21:i6:1003:U:O3'	23:B6:165:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A6:6:ASP:O	22:A6:9:GLN:NE2	2.34	0.55
24:D6:60:GLY:HA3	24:D6:65:ARG:HB3	1.89	0.55
26:F6:175:ASP:OD1	26:F6:176:GLU:N	2.40	0.55
36:k5:68:LEU:CD1	36:k5:174:LEU:CD1	2.85	0.55
36:k5:94:HIS:HB2	36:k5:133:ALA:O	2.07	0.55
37:l6:118:ALA:O	37:l6:129:THR:HG22	2.07	0.55
2:U1:21:ARG:O	2:U1:115:THR:OG1	2.24	0.55
9:g1:220:ASP:HB2	9:g1:225:LYS:N	2.23	0.55
21:i1:794:A:H2'	21:i1:795:A:H4'	1.87	0.55
21:i1:1003:U:O3'	23:B1:165:ARG:NH2	2.40	0.55
21:i1:1765:C:OP2	31:P6:10:ARG:O	2.24	0.55
33:R1:100:PRO:HD3	33:R1:118:GLN:HB2	1.89	0.55
1:T2:101:ARG:HH22	21:i2:1566:G:H8	1.53	0.55
2:U2:87:ARG:NH1	21:i2:1447:G:OP1	2.36	0.55
4:X2:70:VAL:O	4:X2:83:ALA:N	2.36	0.55
9:g2:34:ALA:HB2	9:g2:40:ILE:HG23	1.88	0.55
14:N2:133:ARG:HD2	30:L2:152:LYS:CA	2.36	0.55
18:Z2:80:ARG:HH12	34:S2:23:ARG:HD2	1.65	0.55
18:Z2:82:SER:N	21:i2:1598:G:O2'	2.40	0.55
20:e2:56:ASN:HB3	21:i2:606:G:H5''	1.89	0.55
21:i2:537:C:OP1	21:i2:539:C:N4	2.40	0.55
21:i2:1751:C:H4'	21:i2:1751:C:OP1	2.07	0.55
25:E2:11:ARG:HH11	25:E2:20:LEU:HB3	1.72	0.55
26:F2:127:ARG:CB	26:F2:128:ILE:HA	2.24	0.55
1:T3:121:ARG:HH11	21:i3:1563:G:H5'	1.71	0.55
4:X3:81:ILE:HG21	4:X3:120:PHE:HD2	1.72	0.55
8:f3:96:LYS:NZ	21:i3:1306:U:H3'	2.22	0.55
9:g3:109:LEU:HD22	9:g3:152:SER:HA	1.89	0.55
10:C3:68:ARG:NH2	10:C3:276:THR:OG1	2.40	0.55
11:G3:189:ARG:NH1	21:i3:330:G:C6	2.75	0.55
18:Z3:42:ASP:O	21:i3:1600:G:H5'	2.06	0.55
21:i3:1784:G:H2'	21:i3:1785:C:H5'	1.89	0.55
31:P3:30:TYR:O	31:P3:33:LEU:HB2	2.07	0.55
1:T4:121:ARG:HH11	21:i4:1563:G:H5'	1.71	0.55
4:X4:40:PRO:HG2	4:X4:120:PHE:HE2	1.71	0.55
9:g4:109:LEU:HD22	9:g4:152:SER:HA	1.89	0.55
10:C4:221:ASP:OD1	10:C4:222:CYS:N	2.40	0.55
12:J4:64:ASP:HB3	16:W4:117:ARG:HH21	1.72	0.55
13:M4:111:VAL:CG1	13:M4:114:TYR:HE1	2.08	0.55
21:i4:1545:A:HO2'	21:i4:1546:G:H8	1.54	0.55
25:E4:92:ILE:HG23	25:E4:96:GLY:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T5:121:ARG:HH11	21:i5:1563:G:H5'	1.71	0.55
10:C5:64:THR:OG1	10:C5:279:ARG:CZ	2.55	0.55
13:M5:111:VAL:CG1	13:M5:114:TYR:HE1	2.08	0.55
21:i5:12:U:O4'	21:i5:1357:A:O4'	2.25	0.55
21:i5:33:G:H1	21:i5:522:A:H2	1.52	0.55
21:i5:794:A:H2'	21:i5:795:A:H4'	1.87	0.55
22:A5:89:LYS:HZ1	33:R5:82:ASP:CB	2.16	0.55
23:B5:198:GLU:OE2	23:B5:210:VAL:HB	2.06	0.55
5:a6:102:ARG:N	5:a6:103:PRO:HA	2.20	0.55
10:C6:142:LYS:CG	10:C6:157:LEU:CD1	2.62	0.55
12:J6:64:ASP:HB3	16:W6:117:ARG:HH21	1.72	0.55
14:N6:39:LYS:HA	14:N6:42:LYS:NZ	2.21	0.55
16:W6:56:HIS:O	21:i6:918:U:O2'	2.24	0.55
36:k2:17:LEU:HD21	36:k2:52:ILE:HG13	1.89	0.55
36:k3:86:HIS:CG	36:k3:141:HIS:HD2	2.23	0.55
36:k6:168:HIS:NE2	36:k6:174:LEU:CB	2.67	0.55
37:l1:148:PHE:CZ	37:l1:156:ALA:CB	2.90	0.55
37:l6:136:THR:CG2	37:l6:137:PHE:HA	2.36	0.55
1:T1:38:LYS:NZ	21:i1:1628:C:OP1	2.36	0.54
2:U1:115:THR:O	2:U1:116:ILE:O	2.25	0.54
11:G1:70:HIS:ND1	11:G1:103:ASP:OD1	2.40	0.54
11:G1:144:LEU:C	11:G1:144:LEU:HD12	2.32	0.54
21:i1:152:U:O2	21:i1:167:G:N2	2.40	0.54
21:i1:913:A:OP2	27:H1:99:ARG:NH1	2.40	0.54
31:P1:30:TYR:O	31:P1:33:LEU:HB2	2.07	0.54
8:f2:96:LYS:NZ	21:i2:1306:U:H3'	2.22	0.54
9:g2:191:HIS:CG	9:g2:192:THR:H	2.25	0.54
11:G2:189:ARG:CZ	21:i2:330:G:C5	2.89	0.54
12:J2:64:ASP:HB3	16:W2:117:ARG:HH21	1.72	0.54
15:O2:66:ARG:HD2	28:I4:125:LYS:CE	2.34	0.54
18:Z2:41:ARG:HH11	21:i4:211:G:P	2.30	0.54
19:b2:31:TYR:O	19:b2:48:SER:OG	2.19	0.54
1:T3:24:LYS:HG2	1:T3:25:SER:H	1.71	0.54
1:T3:116:ASP:HB2	1:T3:120:GLY:HA3	1.89	0.54
7:d3:22:ARG:NH1	7:d3:38:MET:SD	2.80	0.54
20:e3:56:ASN:HB3	21:i3:606:G:H5''	1.89	0.54
23:B3:198:GLU:OE2	23:B3:210:VAL:HB	2.06	0.54
24:D3:60:GLY:HA3	24:D3:65:ARG:HB3	1.89	0.54
27:H3:116:ARG:NH2	27:H3:121:THR:HA	2.21	0.54
31:P3:15:PHE:CZ	31:P3:17:TYR:CD2	2.85	0.54
33:R3:65:PRO:CB	33:R3:73:LEU:HD21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R3:100:PRO:HD3	33:R3:118:GLN:HB2	1.89	0.54
2:U4:21:ARG:O	2:U4:115:THR:OG1	2.24	0.54
3:V4:70:LEU:O	3:V4:74:LYS:HG2	2.07	0.54
9:g4:153:CYS:HB2	9:g4:197:THR:HA	1.88	0.54
9:g4:191:HIS:CG	9:g4:192:THR:H	2.25	0.54
13:M4:27:ILE:HG23	29:K4:84:HIS:CG	2.41	0.54
21:i4:316:G:C2	21:i4:335:G:C4	2.94	0.54
21:i4:316:G:C4	21:i4:335:G:C2	2.95	0.54
21:i4:1265:A:H2	21:i4:1517:G:H22	1.55	0.54
10:C5:91:SER:O	10:C5:94:ILE:HG22	2.07	0.54
21:i5:1265:A:H2	21:i5:1517:G:H22	1.55	0.54
26:F5:127:ARG:HB3	26:F5:128:ILE:HG12	1.87	0.54
26:F5:137:GLN:HG3	26:F5:204:ARG:N	2.19	0.54
31:P5:41:GLN:NE2	31:P5:115:TYR:CD2	2.76	0.54
32:Q5:102:GLU:HG2	32:Q5:106:LYS:HE2	1.88	0.54
10:C6:142:LYS:HD2	10:C6:157:LEU:HD12	1.87	0.54
10:C6:142:LYS:NZ	10:C6:153:GLY:CA	2.70	0.54
12:J6:97:ILE:HA	12:J6:100:LEU:HD13	1.89	0.54
18:Z6:50:PHE:HB3	18:Z6:58:LEU:HD21	1.89	0.54
21:i6:537:C:OP1	21:i6:539:C:N4	2.40	0.54
21:i6:1259:A:O2'	21:i6:1518:C:N4	2.39	0.54
25:E6:201:HIS:HB3	25:E6:204:SER:HB3	1.88	0.54
25:E6:238:LEU:HD13	25:E6:242:LYS:HA	1.89	0.54
27:H6:108:SER:HB3	27:H6:113:LYS:HD3	1.90	0.54
36:k3:36:ILE:HG13	36:k3:91:ILE:HG21	1.89	0.54
36:k3:114:PRO:HA	36:k3:117:THR:HG22	1.89	0.54
36:k6:114:PRO:HA	36:k6:117:THR:HG22	1.89	0.54
4:X1:53:GLU:HB2	4:X1:71:ARG:HB2	1.89	0.54
6:c1:23:SER:HB3	26:F1:127:ARG:HG2	1.88	0.54
8:f1:96:LYS:NZ	21:i1:1306:U:H3'	2.22	0.54
10:C1:91:SER:O	10:C1:94:ILE:HG22	2.07	0.54
18:Z1:50:PHE:HB3	18:Z1:58:LEU:HD21	1.89	0.54
21:i1:211:G:C2	21:i1:212:C:O2	2.60	0.54
21:i1:795:A:H5''	21:i1:797:C:H5	1.72	0.54
21:i1:1843:G:C8	35:j1:4:LYS:NZ	2.76	0.54
22:A1:6:ASP:O	22:A1:9:GLN:NE2	2.34	0.54
24:D1:124:ARG:O	24:D1:128:GLU:N	2.40	0.54
26:F1:175:ASP:OD1	26:F1:176:GLU:N	2.40	0.54
26:F1:179:ASN:HB2	26:F1:187:SER:HB3	1.89	0.54
9:g2:178:ASN:HB2	9:g2:182:CYS:HA	1.88	0.54
11:G2:70:HIS:ND1	11:G2:103:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N2:39:LYS:HA	14:N2:42:LYS:NZ	2.21	0.54
14:N2:72:LEU:HD22	21:i2:1019:C:H5''	1.89	0.54
20:e2:5:SER:C	20:e2:7:ALA:H	2.16	0.54
21:i2:12:U:O2'	21:i2:1356:G:C2'	2.51	0.54
21:i2:533:A:H61	21:i2:552:G:H1'	1.72	0.54
24:D2:60:GLY:HA3	24:D2:65:ARG:HB3	1.89	0.54
25:E2:201:HIS:HB3	25:E2:204:SER:HB3	1.88	0.54
30:L2:4:ILE:HD13	30:L2:55:TYR:HA	1.88	0.54
14:N3:17:PRO:O	14:N3:20:ARG:NH1	2.30	0.54
18:Z3:82:SER:N	21:i3:1598:G:O2'	2.40	0.54
18:Z3:88:LEU:HB3	18:Z3:109:TYR:CZ	2.40	0.54
21:i3:152:U:O2	21:i3:167:G:N2	2.40	0.54
21:i3:913:A:OP2	27:H3:99:ARG:NH1	2.41	0.54
21:i3:932:G:O2'	21:i3:934:G:OP2	2.23	0.54
21:i3:1003:U:O3'	23:B3:165:ARG:NH2	2.40	0.54
21:i3:1172:U:C4'	35:j3:10:MET:HE3	2.17	0.54
25:E3:201:HIS:HB3	25:E3:204:SER:HB3	1.88	0.54
31:P3:123:TYR:CD1	31:P3:123:TYR:C	2.86	0.54
1:T4:24:LYS:HG2	1:T4:25:SER:H	1.72	0.54
11:G4:144:LEU:C	11:G4:144:LEU:HD12	2.32	0.54
20:e4:45:VAL:CB	21:i4:535:G:C5'	2.85	0.54
21:i4:208:G:N2	21:i4:209:A:N7	2.55	0.54
21:i4:291:G:N2	21:i4:293:C:OP2	2.36	0.54
21:i4:913:A:OP2	27:H4:99:ARG:NH1	2.40	0.54
21:i4:1300:U:C5	31:P4:51:ARG:CD	2.88	0.54
21:i4:1775:U:H2'	21:i4:1776:G:C5'	2.37	0.54
8:f5:96:LYS:CD	21:i5:1307:U:C5	2.88	0.54
12:J5:97:ILE:HA	12:J5:100:LEU:HD13	1.89	0.54
21:i5:795:A:H5''	21:i5:797:C:H5	1.72	0.54
21:i5:1300:U:O2'	31:P5:51:ARG:NH1	2.37	0.54
31:P5:123:TYR:C	31:P5:123:TYR:CD1	2.85	0.54
2:U6:115:THR:O	2:U6:116:ILE:O	2.25	0.54
8:f6:92:LYS:HD3	21:i6:1272:C:OP1	2.06	0.54
10:C6:91:SER:O	10:C6:94:ILE:HG22	2.07	0.54
11:G6:70:HIS:ND1	11:G6:103:ASP:OD1	2.40	0.54
15:O6:61:LYS:HE3	15:O6:76:LEU:HD13	1.88	0.54
21:i6:730:C:OP2	21:i6:730:C:H4'	2.06	0.54
21:i6:795:A:H5''	21:i6:797:C:H5	1.72	0.54
21:i6:1333:U:H4'	24:D6:141:LYS:HE3	1.89	0.54
21:i6:1545:A:HO2'	21:i6:1546:G:H8	1.55	0.54
33:R6:100:PRO:HD3	33:R6:118:GLN:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:2:PHE:CD1	36:k1:174:LEU:HD13	2.43	0.54
37:l2:118:ALA:O	37:l2:129:THR:HG22	2.07	0.54
37:l3:167:GLN:O	37:l3:170:PHE:CZ	2.61	0.54
37:l5:120:ILE:HG22	37:l5:121:PRO:HD2	1.88	0.54
9:g1:191:HIS:CG	9:g1:192:THR:H	2.26	0.54
11:G1:141:ILE:O	11:G1:144:LEU:CG	2.48	0.54
14:N1:130:LYS:NZ	14:N1:137:PRO:O	2.34	0.54
19:b1:37:CYS:SG	19:b1:63:LEU:HD22	2.47	0.54
21:i1:1189:A:H2'	21:i1:1190:A:C8	2.41	0.54
21:i1:1574:C:N4	21:i1:1575:G:O6	2.40	0.54
21:i1:1781:A:N3	21:i1:1781:A:H2'	2.21	0.54
22:A1:68:ILE:HG22	22:A1:70:ASN:H	1.71	0.54
25:E1:112:HIS:NE2	25:E1:237:SER:O	2.39	0.54
26:F1:133:THR:HG21	26:F1:135:ARG:HE	1.73	0.54
11:G2:209:TYR:CD1	11:G2:213:LEU:HD23	2.43	0.54
12:J2:127:ARG:NH2	21:i2:523:A:OP2	2.36	0.54
18:Z2:88:LEU:HB3	18:Z2:109:TYR:CZ	2.40	0.54
21:i2:209:A:H2	18:Z5:41:ARG:HD3	1.72	0.54
21:i2:1112:U:H2'	21:i2:1113:A:H4'	1.90	0.54
9:g3:191:HIS:CG	9:g3:192:THR:H	2.26	0.54
10:C3:221:ASP:OD1	10:C3:222:CYS:N	2.40	0.54
11:G3:164:LYS:HG2	11:G3:166:GLY:H	1.71	0.54
16:W3:103:VAL:HB	16:W3:110:ILE:HD11	1.90	0.54
21:i3:525:A:H61	21:i3:588:G:H22	1.54	0.54
21:i3:1191:C:H5'	21:i3:1714:U:O2'	2.07	0.54
21:i3:1700:C:N3	21:i3:1834:A:N6	2.53	0.54
21:i3:1849:G:H1	37:l3:153:SER:HA	1.72	0.54
26:F3:137:GLN:HG3	26:F3:204:ARG:N	2.19	0.54
1:T4:97:LYS:NZ	21:i4:1570:G:N7	2.42	0.54
2:U4:20:ILE:N	2:U4:91:LEU:O	2.28	0.54
8:f4:92:LYS:HD3	21:i4:1272:C:OP1	2.06	0.54
18:Z4:48:VAL:HB	18:Z4:83:LEU:HD11	1.89	0.54
21:i4:696:G:H22	21:i4:734:C:H5''	1.71	0.54
21:i4:1189:A:H2'	21:i4:1190:A:C8	2.41	0.54
21:i4:1711:U:H2'	21:i4:1712:A:C8	2.42	0.54
25:E4:11:ARG:HH11	25:E4:20:LEU:HB3	1.72	0.54
2:U5:115:THR:O	2:U5:116:ILE:O	2.25	0.54
9:g5:153:CYS:HB2	9:g5:197:THR:HA	1.88	0.54
21:i5:208:G:N2	21:i5:209:A:N7	2.56	0.54
21:i5:1320:G:H2'	21:i5:1321:G:H4'	1.90	0.54
21:i5:1644:C:OP1	32:Q5:143:LYS:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P5:30:TYR:O	31:P5:33:LEU:HB2	2.07	0.54
4:X6:81:ILE:HG21	4:X6:120:PHE:HD2	1.72	0.54
9:g6:153:CYS:HB2	9:g6:197:THR:HA	1.88	0.54
14:N6:72:LEU:HD22	21:i6:1019:C:H5''	1.89	0.54
19:b6:36:LYS:HE2	19:b6:80:ARG:HD2	1.88	0.54
21:i6:913:A:OP2	27:H6:99:ARG:NH1	2.41	0.54
21:i6:941:C:H2'	21:i6:942:G:C8	2.42	0.54
21:i6:1781:A:H2'	21:i6:1781:A:N3	2.22	0.54
24:D6:55:THR:HG23	24:D6:56:GLN:H	1.73	0.54
31:P6:34:MET:HB3	31:P6:42:ARG:CG	2.29	0.54
37:l3:128:VAL:HG12	37:l3:129:THR:H	1.72	0.54
37:l6:167:GLN:O	37:l6:170:PHE:HZ	1.91	0.54
37:l6:178:ILE:CG1	37:l6:190:ILE:HG21	2.34	0.54
21:i1:368:U:O2	36:k6:109:ALA:CB	2.55	0.54
21:i1:730:C:OP2	21:i1:730:C:H4'	2.06	0.54
23:B1:138:PHE:O	23:B1:213:ARG:N	2.39	0.54
8:f2:96:LYS:HZ3	21:i2:1306:U:H3'	1.72	0.54
12:J2:97:ILE:HA	12:J2:100:LEU:HD13	1.89	0.54
20:e2:25:LYS:HE2	21:i2:554:A:H5''	1.89	0.54
5:a3:102:ARG:N	5:a3:103:PRO:HA	2.20	0.54
8:f3:105:TYR:OH	8:f3:131:PHE:CD2	2.59	0.54
17:Y3:113:ARG:HA	17:Y3:116:LYS:NZ	2.21	0.54
21:i3:208:G:N2	21:i3:209:A:N7	2.55	0.54
21:i3:941:C:H2'	21:i3:942:G:C8	2.42	0.54
26:F3:133:THR:HG21	26:F3:135:ARG:HE	1.73	0.54
26:F3:179:ASN:HB2	26:F3:187:SER:HB3	1.89	0.54
20:e4:10:GLY:HA2	21:i4:616:A:HO2'	1.71	0.54
20:e4:32:ALA:HB2	21:i4:525:A:H5''	1.87	0.54
21:i4:1320:G:H2'	21:i4:1321:G:H4'	1.90	0.54
21:i4:1781:A:H2'	21:i4:1781:A:N3	2.21	0.54
21:i4:1837:G:H4'	21:i4:1838:U:H5''	1.89	0.54
26:F4:133:THR:HG21	26:F4:135:ARG:HE	1.73	0.54
34:S4:98:VAL:HG11	34:S4:106:LYS:HD2	1.89	0.54
8:f5:93:HIS:CG	21:i5:1304:U:H5'	2.38	0.54
19:b5:21:LYS:O	19:b5:23:ARG:N	2.38	0.54
31:P5:41:GLN:HE22	31:P5:115:TYR:HB3	1.72	0.54
33:R5:27:ASP:O	33:R5:30:THR:OG1	2.24	0.54
1:T6:42:HIS:NE2	1:T6:82:ARG:O	2.39	0.54
3:V6:70:LEU:O	3:V6:74:LYS:HG2	2.07	0.54
4:X6:53:GLU:HB2	4:X6:71:ARG:HB2	1.89	0.54
8:f6:105:TYR:CE2	8:f6:106:TYR:CE2	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:533:A:H61	21:i6:552:G:H1'	1.72	0.54
26:F6:136:ARG:C	26:F6:203:ASN:ND2	2.66	0.54
36:k2:170:LEU:HG	36:k2:171:ASN:N	2.19	0.54
36:k4:33:PHE:HD1	36:k4:92:LEU:HG	1.72	0.54
36:k5:14:CYS:SG	36:k5:180:TYR:OH	2.61	0.54
37:l3:167:GLN:O	37:l3:170:PHE:HZ	1.91	0.54
37:l4:118:ALA:O	37:l4:129:THR:HG22	2.07	0.54
4:X1:81:ILE:HG21	4:X1:120:PHE:HD2	1.72	0.54
10:C1:68:ARG:NH2	10:C1:276:THR:OG1	2.40	0.54
21:i1:1522:A:O4'	31:P1:128:HIS:CG	2.61	0.54
1:T2:116:ASP:HB2	1:T2:120:GLY:HA3	1.89	0.54
2:U2:115:THR:O	2:U2:116:ILE:O	2.25	0.54
4:X2:53:GLU:HB2	4:X2:71:ARG:HB2	1.89	0.54
8:f2:96:LYS:CD	21:i2:1307:U:C5	2.88	0.54
10:C2:221:ASP:OD1	10:C2:222:CYS:N	2.40	0.54
16:W2:112:ASP:OD1	16:W2:113:HIS:N	2.37	0.54
21:i2:208:G:N2	21:i2:209:A:N7	2.55	0.54
21:i2:695:C:C5	21:i2:736:C:O2	2.60	0.54
21:i2:1270:G:H2'	21:i2:1271:C:O4'	2.08	0.54
25:E2:238:LEU:HD13	25:E2:242:LYS:HA	1.89	0.54
20:e3:25:LYS:NZ	21:i3:554:A:P	2.79	0.54
21:i3:533:A:H61	21:i3:552:G:H1'	1.72	0.54
21:i3:1753:C:H4'	21:i3:1780:G:H21	1.71	0.54
26:F3:127:ARG:HB3	26:F3:128:ILE:HG12	1.87	0.54
9:g4:79:LEU:HD11	9:g4:120:ILE:HD13	1.89	0.54
16:W4:77:PRO:HG2	16:W4:79:PHE:CE2	2.43	0.54
21:i4:211:G:N7	21:i4:212:C:C4	2.75	0.54
21:i4:1236:G:H4'	31:P4:133:ILE:HB	1.88	0.54
24:D4:53:THR:HA	24:D4:90:LYS:HG3	1.89	0.54
24:D4:55:THR:HG23	24:D4:56:GLN:H	1.72	0.54
26:F4:175:ASP:OD1	26:F4:176:GLU:N	2.40	0.54
5:a5:101:PHE:HD2	5:a5:101:PHE:N	2.06	0.54
19:b5:21:LYS:C	19:b5:23:ARG:H	2.14	0.54
21:i5:152:U:O2	21:i5:167:G:N2	2.40	0.54
21:i5:465:A:H4'	21:i5:466:G:O5'	2.08	0.54
21:i5:1574:C:N4	21:i5:1575:G:O6	2.40	0.54
34:S5:98:VAL:HG11	34:S5:106:LYS:HD2	1.89	0.54
1:T6:116:ASP:HB2	1:T6:120:GLY:HA3	1.89	0.54
21:i6:465:A:H4'	21:i6:466:G:O5'	2.08	0.54
21:i6:628:A:H61	24:D6:145:GLN:HG3	1.70	0.54
23:B6:23:ASP:OD1	23:B6:24:PRO:HD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D6:132:LYS:HG3	24:D6:191:PRO:HB3	1.88	0.54
36:k1:17:LEU:HD21	36:k1:52:ILE:HG13	1.90	0.54
36:k3:108:GLY:C	36:k3:166:ASN:ND2	2.66	0.54
36:k4:17:LEU:HD21	36:k4:52:ILE:HG13	1.90	0.54
37:l1:128:VAL:HG12	37:l1:129:THR:H	1.72	0.54
37:l2:115:VAL:C	37:l2:116:THR:HG1	2.10	0.54
37:l4:148:PHE:CZ	37:l4:156:ALA:CB	2.90	0.54
37:l5:136:THR:HG23	37:l5:137:PHE:HA	1.90	0.54
37:l5:167:GLN:O	37:l5:170:PHE:HZ	1.91	0.54
3:V1:70:LEU:O	3:V1:74:LYS:HG2	2.07	0.54
8:f1:78:LYS:HG3	8:f1:78:LYS:O	2.07	0.54
14:N1:42:LYS:HD2	14:N1:42:LYS:N	2.23	0.54
21:i1:1378:A:OP2	22:A1:132:GLN:NE2	2.40	0.54
9:g2:109:LEU:HD22	9:g2:152:SER:HA	1.89	0.54
16:W2:56:HIS:O	21:i2:918:U:O2'	2.24	0.54
21:i2:152:U:O2	21:i2:167:G:N2	2.40	0.54
21:i2:795:A:H5''	21:i2:797:C:H5	1.71	0.54
21:i2:1751:C:H6	21:i2:1751:C:H3'	1.72	0.54
24:D2:53:THR:HA	24:D2:90:LYS:HG3	1.89	0.54
25:E2:151:ASP:O	25:E2:154:ILE:HG12	2.08	0.54
31:P2:30:TYR:O	31:P2:33:LEU:HB2	2.07	0.54
8:f3:80:ARG:HH21	21:i3:1503:C:H1'	1.72	0.54
11:G3:79:LYS:HB3	11:G3:86:PRO:HG3	1.90	0.54
14:N3:135:LEU:HB3	14:N3:136:PRO:HD2	1.88	0.54
21:i3:1781:A:N3	21:i3:1781:A:H2'	2.22	0.54
21:i3:1783:C:O2'	21:i3:1784:G:OP2	2.25	0.54
10:C4:273:LEU:HB3	10:C4:280:VAL:HG12	1.84	0.54
21:i4:555:A:N7	21:i4:557:U:C5	2.75	0.54
29:K4:57:TYR:O	29:K4:72:THR:OG1	2.20	0.54
31:P4:123:TYR:CD1	31:P4:123:TYR:C	2.86	0.54
4:X5:81:ILE:HG21	4:X5:120:PHE:HD2	1.71	0.54
9:g5:109:LEU:HD22	9:g5:152:SER:HA	1.89	0.54
10:C5:68:ARG:CD	10:C5:277:HIS:HB3	2.36	0.54
11:G5:149:LYS:HB2	11:G5:149:LYS:HZ3	1.73	0.54
12:J5:30:LYS:HA	20:e5:38:TYR:CE1	2.42	0.54
12:J5:64:ASP:HB3	16:W5:117:ARG:HH21	1.72	0.54
21:i5:1751:C:H3'	21:i5:1751:C:H6	1.73	0.54
22:A5:210:ILE:HG13	22:A5:211:GLU:N	2.22	0.54
25:E5:11:ARG:HH11	25:E5:20:LEU:HB3	1.72	0.54
31:P5:16:THR:O	31:P5:16:THR:HG22	2.06	0.54
8:f6:96:LYS:CD	21:i6:1307:U:C5	2.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:64:THR:OG1	10:C6:279:ARG:CZ	2.56	0.54
21:i6:1320:G:H2'	21:i6:1321:G:H4'	1.90	0.54
21:i6:1522:A:O4'	31:P6:128:HIS:CG	2.61	0.54
21:i6:1534:C:O2	21:i6:1598:G:N2	2.41	0.54
23:B6:105:LEU:HD23	23:B6:110:MET:HE2	1.90	0.54
24:D6:53:THR:HA	24:D6:90:LYS:HG3	1.89	0.54
26:F6:88:MET:HB2	26:F6:91:ARG:HH21	1.71	0.54
30:L6:42:LEU:HD21	30:L6:72:ILE:HD11	1.90	0.54
36:k3:145:VAL:HB	36:k3:167:ILE:HG21	1.89	0.54
36:k6:96:GLN:HB3	36:k6:122:LYS:O	2.08	0.54
36:k6:146:GLY:CA	36:k6:167:ILE:CG1	2.86	0.54
37:l1:136:THR:HG23	37:l1:137:PHE:HA	1.90	0.54
37:l4:167:GLN:O	37:l4:170:PHE:HZ	1.91	0.54
37:l5:148:PHE:CZ	37:l5:156:ALA:CB	2.90	0.54
8:f1:96:LYS:CD	21:i1:1307:U:C5	2.88	0.54
9:g1:131:LEU:HB3	9:g1:139:LYS:HB3	1.89	0.54
11:G1:209:TYR:CD1	11:G1:213:LEU:HD23	2.43	0.54
13:M1:27:ILE:CG2	29:K1:84:HIS:CG	2.91	0.54
21:i1:463:C:OP1	8:f2:117:LEU:HD22	2.08	0.54
21:i1:465:A:H4'	21:i1:466:G:O5'	2.08	0.54
21:i1:941:C:H2'	21:i1:942:G:C8	2.42	0.54
21:i1:1711:U:H2'	21:i1:1712:A:C8	2.42	0.54
22:A1:180:ARG:O	22:A1:184:ARG:HG2	2.06	0.54
25:E1:11:ARG:HH11	25:E1:20:LEU:HB3	1.72	0.54
33:R1:32:LYS:HZ1	33:R1:47:ARG:HH21	1.56	0.54
5:a2:101:PHE:HD2	5:a2:101:PHE:N	2.06	0.54
8:f2:92:LYS:HD3	21:i2:1272:C:OP1	2.06	0.54
9:g2:220:ASP:HB2	9:g2:225:LYS:N	2.22	0.54
11:G2:206:ALA:HA	11:G2:209:TYR:CD2	2.43	0.54
21:i2:941:C:H2'	21:i2:942:G:C8	2.43	0.54
21:i2:1333:U:H4'	24:D2:141:LYS:HE3	1.90	0.54
21:i2:1775:U:H2'	21:i2:1776:G:C5'	2.37	0.54
22:A2:89:LYS:HZ1	33:R2:82:ASP:CB	2.18	0.54
23:B2:105:LEU:HD23	23:B2:110:MET:HE2	1.90	0.54
10:C3:64:THR:OG1	10:C3:279:ARG:CZ	2.56	0.54
11:G3:209:TYR:CD1	11:G3:213:LEU:HD23	2.43	0.54
12:J3:97:ILE:HA	12:J3:100:LEU:HD13	1.89	0.54
13:M3:27:ILE:CG2	29:K3:84:HIS:CG	2.91	0.54
18:Z3:50:PHE:HB3	18:Z3:58:LEU:HD21	1.89	0.54
18:Z3:83:LEU:HD21	34:S3:55:ARG:NH2	2.21	0.54
21:i3:12:U:O2'	21:i3:1356:G:C2'	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:527:C:H6	21:i3:527:C:O5'	1.91	0.54
21:i3:1112:U:H2'	21:i3:1113:A:H4'	1.90	0.54
21:i3:1270:G:H2'	21:i3:1271:C:O4'	2.08	0.54
21:i3:1534:C:O2	21:i3:1598:G:N2	2.41	0.54
12:J4:4:ALA:HB3	12:J4:5:ARG:HA	1.90	0.54
13:M4:27:ILE:CG2	29:K4:84:HIS:CG	2.91	0.54
21:i4:596:U:HO2'	21:i4:645:C:HO2'	1.49	0.54
21:i4:1003:U:O3'	23:B4:165:ARG:NH2	2.40	0.54
21:i4:1270:G:H2'	21:i4:1271:C:O4'	2.08	0.54
26:F4:127:ARG:HB3	26:F4:128:ILE:HG12	1.87	0.54
1:T5:38:LYS:NZ	21:i5:1628:C:OP1	2.36	0.54
11:G5:209:TYR:CD1	11:G5:213:LEU:HD23	2.42	0.54
12:J5:14:VAL:HG23	12:J5:48:PHE:CD1	2.43	0.54
20:e5:43:VAL:CG1	21:i5:551:U:C2'	2.61	0.54
21:i5:913:A:OP2	27:H5:99:ARG:NH1	2.40	0.54
21:i5:1534:C:O2	21:i5:1598:G:N2	2.41	0.54
21:i5:1568:C:O2'	21:i5:1569:A:O5'	2.22	0.54
28:I5:133:GLU:O	28:I5:137:LEU:N	2.41	0.54
32:Q5:4:LYS:HZ3	32:Q5:99:TYR:HA	1.60	0.54
11:G6:50:VAL:HB	11:G6:111:LEU:HD11	1.88	0.54
18:Z6:82:SER:HA	21:i6:1598:G:C2'	2.31	0.54
21:i6:538:U:H5''	21:i6:546:G:C4	2.43	0.54
21:i6:1270:G:H2'	21:i6:1271:C:O4'	2.08	0.54
21:i6:1322:G:H2'	21:i6:1323:U:O4'	2.08	0.54
21:i6:1574:C:N4	21:i6:1575:G:O6	2.40	0.54
21:i6:1615:U:O4	31:P6:40:ARG:NH1	2.41	0.54
26:F6:32:ASP:CG	26:F6:33:ILE:H	2.15	0.54
31:P6:96:VAL:CG2	31:P6:116:LEU:HD13	1.86	0.54
33:R6:60:ARG:HG2	33:R6:60:ARG:O	2.06	0.54
36:k2:86:HIS:ND1	36:k2:141:HIS:CD2	2.75	0.54
36:k2:96:GLN:NE2	36:k2:122:LYS:CD	2.71	0.54
36:k3:17:LEU:HD21	36:k3:52:ILE:HG13	1.90	0.54
36:k5:118:SER:HB2	36:k5:119:PRO:CD	2.34	0.54
37:l4:136:THR:HG23	37:l4:137:PHE:HA	1.90	0.54
37:l6:167:GLN:O	37:l6:170:PHE:CZ	2.61	0.54
1:T1:116:ASP:HB2	1:T1:120:GLY:HA3	1.90	0.54
8:f1:105:TYR:CZ	8:f1:131:PHE:CB	2.75	0.54
9:g1:109:LEU:HD22	9:g1:152:SER:HA	1.89	0.54
10:C1:64:THR:OG1	10:C1:279:ARG:CZ	2.56	0.54
11:G1:216:ARG:HG3	11:G1:223:LYS:HZ2	1.72	0.54
16:W1:77:PRO:HG2	16:W1:79:PHE:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e1:56:ASN:HB3	21:i1:606:G:H5''	1.88	0.54
21:i1:537:C:OP1	21:i1:539:C:N4	2.40	0.54
21:i1:1300:U:C5	31:P1:51:ARG:CD	2.86	0.54
21:i1:1320:G:H2'	21:i1:1321:G:H4'	1.90	0.54
21:i1:1766:C:OP1	31:P6:12:PHE:HZ	1.91	0.54
30:L1:42:LEU:HD21	30:L1:72:ILE:HD11	1.90	0.54
33:R1:81:ARG:HG2	33:R1:81:ARG:NH1	2.20	0.54
10:C2:68:ARG:NE	10:C2:277:HIS:HB2	2.23	0.54
11:G2:141:ILE:CG1	11:G2:144:LEU:CG	2.78	0.54
12:J2:4:ALA:HB3	12:J2:5:ARG:HA	1.90	0.54
12:J2:87:LEU:HG	12:J2:91:LYS:HE3	1.90	0.54
21:i2:557:U:O3'	21:i2:558:G:H8	1.90	0.54
21:i2:1844:U:C4	35:j2:4:LYS:CD	2.78	0.54
22:A2:4:ALA:N	22:A2:5:LEU:HA	2.16	0.54
3:V3:70:LEU:O	3:V3:74:LYS:HG2	2.07	0.54
5:a3:101:PHE:HD2	5:a3:101:PHE:N	2.06	0.54
11:G3:144:LEU:HD12	11:G3:144:LEU:C	2.32	0.54
11:G3:220:ALA:HA	11:G3:223:LYS:HZ1	1.73	0.54
16:W3:77:PRO:HG2	16:W3:79:PHE:CE2	2.43	0.54
21:i3:693:A:N6	21:i3:734:C:C4	2.76	0.54
21:i3:1412:C:O2'	21:i3:1413:G:N7	2.34	0.54
21:i3:1852:C:OP2	35:j3:1:MET:HA	2.08	0.54
22:A3:211:GLU:HB2	33:R3:81:ARG:NH2	2.18	0.54
25:E3:125:LYS:H	25:E3:142:HIS:CE1	2.26	0.54
26:F3:185:SER:O	26:F3:191:LYS:NZ	2.33	0.54
33:R3:21:TYR:HE1	33:R3:61:ILE:HD12	1.72	0.54
2:U4:115:THR:O	2:U4:116:ILE:O	2.25	0.54
4:X4:67:ARG:NH2	21:i4:617:G:N7	2.53	0.54
14:N4:42:LYS:HD2	14:N4:42:LYS:N	2.23	0.54
21:i4:465:A:H4'	21:i4:466:G:O5'	2.07	0.54
21:i4:1184:G:OP1	35:j4:11:ARG:NH2	2.41	0.54
21:i4:1464:C:OP1	33:R4:60:ARG:NH2	2.41	0.54
26:F4:88:MET:HE3	26:F4:91:ARG:HH21	1.73	0.54
26:F4:136:ARG:O	26:F4:203:ASN:ND2	2.36	0.54
14:N5:72:LEU:HD22	21:i5:1019:C:H5''	1.89	0.54
14:N5:101:HIS:ND1	21:i5:1008:A:H1'	2.18	0.54
15:O5:14:VAL:HG21	15:O5:18:GLY:HA3	1.90	0.54
16:W5:77:PRO:HG2	16:W5:79:PHE:CE2	2.43	0.54
18:Z5:83:LEU:HD21	34:S5:55:ARG:NH2	2.21	0.54
21:i5:61:A:H4'	21:i5:317:C:C2'	2.35	0.54
21:i5:1003:U:O3'	23:B5:165:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1070:A:OP2	36:k5:18:LYS:NZ	2.41	0.54
21:i5:1280:G:H1'	21:i5:1318:G:N2	2.23	0.54
30:L5:153:LYS:O	30:L5:153:LYS:HD2	2.08	0.54
33:R5:100:PRO:HD3	33:R5:118:GLN:HB2	1.89	0.54
21:i6:375:U:H3	21:i6:389:A:H61	1.54	0.54
33:R6:78:ARG:O	33:R6:82:ASP:HB2	2.08	0.54
36:k1:96:GLN:NE2	36:k1:122:LYS:CD	2.71	0.54
36:k3:96:GLN:NE2	36:k3:122:LYS:CD	2.71	0.54
36:k6:96:GLN:NE2	36:k6:122:LYS:CD	2.71	0.54
37:l1:167:GLN:O	37:l1:170:PHE:CZ	2.61	0.54
37:l3:146:ARG:O	37:l3:150:GLN:HB2	2.08	0.54
37:l4:167:GLN:O	37:l4:170:PHE:CZ	2.61	0.54
8:f1:103:LEU:CD2	13:M1:64:LEU:HD12	2.38	0.54
12:J1:4:ALA:HB3	12:J1:5:ARG:HA	1.90	0.54
15:O1:14:VAL:HG21	15:O1:18:GLY:HA3	1.90	0.54
21:i1:208:G:N2	21:i1:209:A:N7	2.55	0.54
22:A1:211:GLU:HG3	33:R1:81:ARG:HH21	1.59	0.54
2:U2:28:ASN:HD21	2:U2:30:LYS:HB3	1.73	0.54
10:C2:64:THR:OG1	10:C2:279:ARG:CZ	2.55	0.54
11:G2:50:VAL:HB	11:G2:111:LEU:HD11	1.88	0.54
13:M2:36:ARG:HH12	21:i2:1310:U:H5	1.19	0.54
21:i2:1711:U:H2'	21:i2:1712:A:C8	2.42	0.54
24:D2:55:THR:HG23	24:D2:56:GLN:H	1.73	0.54
34:S2:105:ASN:ND2	21:i4:1760:G:N3	2.49	0.54
5:a3:101:PHE:C	5:a3:102:ARG:HD2	2.31	0.54
14:N3:42:LYS:HD2	14:N3:42:LYS:N	2.23	0.54
21:i3:465:A:H4'	21:i3:466:G:O5'	2.08	0.54
21:i3:1204:A:O2'	21:i3:1700:C:OP2	2.11	0.54
21:i3:1265:A:H2	21:i3:1517:G:H22	1.55	0.54
21:i3:1522:A:O4'	31:P3:128:HIS:CG	2.61	0.54
21:i3:1711:U:H2'	21:i3:1712:A:C8	2.42	0.54
21:i3:1836:G:H4'	21:i3:1837:G:C4	2.43	0.54
31:P3:34:MET:HE3	31:P3:46:ASN:HB2	1.89	0.54
33:R3:58:MET:CA	33:R3:61:ILE:HG12	2.36	0.54
11:G4:79:LYS:HB3	11:G4:86:PRO:HG3	1.90	0.54
12:J4:14:VAL:HG23	12:J4:48:PHE:CD1	2.43	0.54
14:N4:133:ARG:CD	30:L4:152:LYS:HG3	2.38	0.54
18:Z4:82:SER:HA	21:i4:1598:G:C2'	2.31	0.54
21:i4:538:U:H5''	21:i4:546:G:C4	2.43	0.54
21:i4:1112:U:H2'	21:i4:1113:A:H4'	1.90	0.54
21:i4:1497:G:N7	29:K4:25:LYS:NZ	2.52	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1705:C:O2'	35:j4:1:MET:N	2.39	0.54
24:D4:60:GLY:HA3	24:D4:65:ARG:HB3	1.90	0.54
24:D4:204:LEU:O	24:D4:206:ASP:N	2.36	0.54
25:E4:151:ASP:O	25:E4:154:ILE:HG12	2.08	0.54
25:E4:238:LEU:HD13	25:E4:242:LYS:HA	1.89	0.54
26:F4:32:ASP:CG	26:F4:33:ILE:H	2.16	0.54
9:g5:191:HIS:CG	9:g5:192:THR:H	2.26	0.54
12:J5:4:ALA:HB3	12:J5:5:ARG:HA	1.89	0.54
18:Z5:50:PHE:HB3	18:Z5:58:LEU:HD21	1.89	0.54
18:Z5:68:ILE:HG22	18:Z5:109:TYR:HD2	1.73	0.54
18:Z5:85:ARG:CZ	21:i5:1596:U:C5	2.89	0.54
20:e5:56:ASN:HB3	21:i5:606:G:H5''	1.89	0.54
21:i5:941:C:H2'	21:i5:942:G:C8	2.43	0.54
14:N6:17:PRO:O	14:N6:20:ARG:NH1	2.30	0.54
16:W6:11:LEU:HD21	16:W6:37:PHE:CE2	2.43	0.54
20:e6:56:ASN:HB3	21:i6:606:G:H5''	1.89	0.54
21:i6:127:C:HO2'	21:i6:184:G:H1	1.47	0.54
26:F6:128:ILE:HD11	26:F6:204:ARG:OXT	2.08	0.54
31:P6:121:ILE:HB	34:S6:120:HIS:NE2	2.23	0.54
36:k1:9:GLU:O	36:k1:56:HIS:CE1	2.61	0.54
36:k3:95:GLN:CD	36:k3:164:ILE:HD11	2.31	0.54
36:k4:2:PHE:CA	36:k4:168:HIS:HE1	2.11	0.54
36:k5:167:ILE:HG22	36:k5:168:HIS:H	1.73	0.54
37:l2:136:THR:HG23	37:l2:137:PHE:HA	1.90	0.54
37:l3:118:ALA:O	37:l3:129:THR:HG22	2.07	0.54
37:l4:127:TYR:N	37:l4:168:GLY:HA2	2.23	0.54
37:l4:146:ARG:O	37:l4:150:GLN:HB2	2.08	0.54
37:l5:128:VAL:HG12	37:l5:129:THR:H	1.71	0.54
37:l6:136:THR:HG23	37:l6:137:PHE:HA	1.90	0.54
2:U1:18:HIS:CG	2:U1:117:ALA:HB1	2.43	0.54
9:g1:153:CYS:HB2	9:g1:197:THR:HA	1.88	0.54
21:i1:1044:G:N7	36:k1:20:SER:OG	2.39	0.54
21:i1:1270:G:H2'	21:i1:1271:C:O4'	2.08	0.54
21:i1:1775:U:H2'	21:i1:1776:G:C5'	2.37	0.54
24:D1:55:THR:HG23	24:D1:56:GLN:H	1.72	0.54
2:U2:118:ASP:O	2:U2:119:ALA:HB3	2.07	0.54
10:C2:68:ARG:NH2	10:C2:276:THR:OG1	2.40	0.54
11:G2:144:LEU:C	11:G2:144:LEU:HD12	2.32	0.54
21:i2:688:U:C4	27:H2:100:ILE:CG2	2.89	0.54
26:F2:88:MET:HE3	26:F2:91:ARG:HH21	1.73	0.54
33:R2:77:GLU:CG	33:R2:81:ARG:HG3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X3:53:GLU:HB2	4:X3:71:ARG:HB2	1.88	0.54
8:f3:96:LYS:HZ3	21:i3:1306:U:H3'	1.72	0.54
8:f3:103:LEU:CD2	13:M3:64:LEU:HD12	2.38	0.54
14:N3:132:LYS:CA	30:L3:152:LYS:HZ3	2.21	0.54
14:N3:135:LEU:CB	14:N3:136:PRO:HD2	2.38	0.54
21:i3:356:C:OP2	30:L3:105:ARG:NH1	2.20	0.54
21:i3:1775:U:H2'	21:i3:1776:G:C5'	2.37	0.54
23:B3:34:LYS:NZ	23:B3:95:ASN:OD1	2.29	0.54
24:D3:53:THR:HA	24:D3:90:LYS:HG3	1.89	0.54
25:E3:238:LEU:HD13	25:E3:242:LYS:HA	1.89	0.54
31:P3:133:ILE:HG22	31:P3:134:GLY:N	2.23	0.54
11:G4:209:TYR:CD1	11:G4:213:LEU:HD23	2.43	0.54
21:i4:537:C:OP1	21:i4:539:C:N4	2.41	0.54
21:i4:1705:C:O3'	35:j4:1:MET:N	2.41	0.54
29:K4:94:LEU:O	29:K4:95:ARG:HB2	2.08	0.54
30:L4:89:ARG:HG2	30:L4:108:ASN:HB3	1.90	0.54
21:i5:538:U:H5''	21:i5:546:G:C4	2.43	0.54
21:i5:969:U:OP1	21:i5:970:G:O2'	2.23	0.54
21:i5:1270:G:H2'	21:i5:1271:C:O4'	2.08	0.54
24:D5:55:THR:HG23	24:D5:56:GLN:H	1.72	0.54
25:E5:125:LYS:H	25:E5:142:HIS:CE1	2.26	0.54
31:P5:18:ARG:HG2	34:S5:93:GLY:HA2	1.90	0.54
33:R5:52:GLY:O	33:R5:55:THR:OG1	2.20	0.54
9:g6:191:HIS:CG	9:g6:192:THR:H	2.25	0.54
11:G6:209:TYR:CD1	11:G6:213:LEU:HD23	2.43	0.54
13:M6:27:ILE:HG23	29:K6:84:HIS:CG	2.41	0.54
13:M6:27:ILE:CG2	29:K6:84:HIS:CG	2.91	0.54
17:Y6:9:THR:HG22	17:Y6:25:ILE:HA	1.90	0.54
21:i6:94:G:O2'	21:i6:508:A:O2'	2.16	0.54
21:i6:208:G:N2	21:i6:209:A:N7	2.55	0.54
21:i6:356:C:OP2	30:L6:105:ARG:NH1	2.20	0.54
22:A6:104:THR:OG1	22:A6:107:THR:OG1	2.25	0.54
25:E6:125:LYS:H	25:E6:142:HIS:CE1	2.26	0.54
29:K6:24:LYS:HE2	29:K6:65:ARG:HD3	1.90	0.54
34:S6:98:VAL:HG11	34:S6:106:LYS:HD2	1.89	0.54
36:k1:17:LEU:HB2	36:k1:50:VAL:CG2	2.33	0.54
36:k2:96:GLN:HB3	36:k2:122:LYS:O	2.08	0.54
36:k3:118:SER:HB2	36:k3:119:PRO:CD	2.34	0.54
37:l5:167:GLN:O	37:l5:170:PHE:CZ	2.61	0.54
11:G1:3:LEU:HD13	11:G1:5:ILE:HG13	1.90	0.53
16:W1:103:VAL:HB	16:W1:110:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:689:U:C4	27:H1:122:LEU:CD1	2.87	0.53
21:i1:963:A:OP1	28:I3:123:ARG:NH1	2.41	0.53
21:i1:1333:U:H4'	24:D1:141:LYS:HE3	1.90	0.53
21:i1:1497:G:N7	29:K1:25:LYS:NZ	2.52	0.53
28:I1:133:GLU:O	28:I1:137:LEU:N	2.41	0.53
34:S1:50:ILE:HD12	34:S1:67:VAL:HG21	1.87	0.53
11:G2:189:ARG:HD2	21:i2:330:G:C5	2.36	0.53
14:N2:42:LYS:HD2	14:N2:42:LYS:N	2.23	0.53
16:W2:26:LEU:HD21	16:W2:60:LYS:HD3	1.90	0.53
16:W2:77:PRO:HG2	16:W2:79:PHE:CE2	2.43	0.53
16:W2:103:VAL:HB	16:W2:110:ILE:HD11	1.89	0.53
21:i2:209:A:N3	18:Z5:41:ARG:HB3	2.23	0.53
21:i2:688:U:C6	27:H2:122:LEU:HD13	2.43	0.53
21:i2:1322:G:H2'	21:i2:1323:U:O4'	2.08	0.53
28:I2:42:ARG:HG2	28:I2:59:ARG:HB2	1.91	0.53
31:P2:45:LEU:CD1	31:P2:49:LEU:CD2	2.84	0.53
2:U3:77:TRP:CD1	32:Q3:132:PHE:HB2	2.44	0.53
2:U3:115:THR:O	2:U3:116:ILE:O	2.26	0.53
8:f3:99:LYS:HB3	21:i3:1285:G:C2	2.43	0.53
21:i3:1259:A:O2'	21:i3:1518:C:N4	2.39	0.53
21:i3:1333:U:H4'	24:D3:141:LYS:HE3	1.89	0.53
21:i3:1574:C:N4	21:i3:1575:G:O6	2.40	0.53
21:i3:1674:G:H5''	26:F3:86:LYS:HB3	1.91	0.53
22:A3:4:ALA:N	22:A3:5:LEU:HA	2.16	0.53
26:F3:88:MET:HE3	26:F3:91:ARG:HH21	1.73	0.53
31:P3:121:ILE:HB	34:S3:120:HIS:NE2	2.23	0.53
33:R3:44:LYS:O	33:R3:48:ASN:ND2	2.41	0.53
10:C4:64:THR:OG1	10:C4:279:ARG:CZ	2.55	0.53
10:C4:238:LYS:NZ	21:i4:1356:G:OP1	2.40	0.53
21:i4:1280:G:H1'	21:i4:1318:G:N2	2.23	0.53
26:F4:127:ARG:CB	26:F4:128:ILE:CG1	2.86	0.53
29:K4:24:LYS:HE2	29:K4:65:ARG:HD3	1.90	0.53
30:L4:42:LEU:HD21	30:L4:72:ILE:HD11	1.90	0.53
9:g5:220:ASP:HB2	9:g5:225:LYS:N	2.22	0.53
10:C5:68:ARG:NH2	10:C5:276:THR:OG1	2.40	0.53
11:G5:65:GLN:HE22	21:i5:1746:U:C4'	2.21	0.53
21:i5:730:C:OP2	21:i5:730:C:H4'	2.06	0.53
24:D5:204:LEU:O	24:D5:206:ASP:N	2.36	0.53
26:F5:133:THR:HG21	26:F5:135:ARG:HE	1.73	0.53
29:K5:24:LYS:HE2	29:K5:65:ARG:HD3	1.89	0.53
31:P5:121:ILE:HB	34:S5:120:HIS:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R5:44:LYS:O	33:R5:48:ASN:ND2	2.41	0.53
5:a6:101:PHE:N	5:a6:101:PHE:HD2	2.06	0.53
10:C6:65:LYS:HZ2	10:C6:280:VAL:HB	1.73	0.53
10:C6:277:HIS:O	10:C6:279:ARG:N	2.36	0.53
12:J6:14:VAL:HG23	12:J6:48:PHE:CD1	2.44	0.53
16:W6:103:VAL:HB	16:W6:110:ILE:HD11	1.89	0.53
20:e6:36:MET:HE3	21:i6:553:U:P	2.49	0.53
21:i6:152:U:O2	21:i6:167:G:N2	2.40	0.53
21:i6:1280:G:H1'	21:i6:1318:G:N2	2.23	0.53
21:i6:1711:U:H2'	21:i6:1712:A:C8	2.42	0.53
21:i6:1853:C:N4	35:j6:5:TRP:CZ2	2.75	0.53
26:F6:133:THR:HG21	26:F6:135:ARG:HE	1.73	0.53
28:I6:133:GLU:O	28:I6:137:LEU:N	2.41	0.53
36:k3:96:GLN:HB3	36:k3:122:LYS:O	2.08	0.53
36:k3:168:HIS:NE2	36:k3:174:LEU:CB	2.71	0.53
37:l5:146:ARG:O	37:l5:150:GLN:HB2	2.08	0.53
37:l6:117:ILE:CD1	37:l6:174:ILE:HG13	2.38	0.53
11:G1:79:LYS:HB3	11:G1:86:PRO:HG3	1.90	0.53
14:N1:141:TYR:CE1	14:N1:146:ALA:HB1	2.44	0.53
16:W1:56:HIS:O	21:i1:918:U:O2'	2.24	0.53
21:i1:526:A:C2	21:i1:560:A:N1	2.77	0.53
21:i1:1534:C:O2	21:i1:1598:G:N2	2.41	0.53
21:i1:1836:G:H4'	21:i1:1837:G:C4	2.43	0.53
22:A1:190:SER:O	22:A1:192:GLU:N	2.40	0.53
27:H1:108:SER:HB3	27:H1:113:LYS:HD3	1.90	0.53
29:K1:57:TYR:O	29:K1:72:THR:OG1	2.19	0.53
30:L1:30:LYS:HE2	23:B6:21:VAL:CB	2.38	0.53
3:V2:70:LEU:O	3:V2:74:LYS:HG2	2.07	0.53
21:i2:465:A:H4'	21:i2:466:G:O5'	2.08	0.53
21:i2:1388:A:O2'	24:D2:205:PRO:O	2.16	0.53
21:i2:1534:C:O2	21:i2:1598:G:N2	2.41	0.53
26:F2:133:THR:HG21	26:F2:135:ARG:HE	1.73	0.53
9:g3:114:SER:OG	9:g3:116:ASP:OD1	2.17	0.53
11:G3:3:LEU:HD13	11:G3:5:ILE:HG13	1.90	0.53
21:i3:538:U:H5''	21:i3:546:G:C4	2.44	0.53
21:i3:1220:A:N3	21:i3:1677:U:O2'	2.40	0.53
31:P3:115:TYR:H	31:P3:115:TYR:HD2	1.52	0.53
2:U4:77:TRP:CD1	32:Q4:132:PHE:HB2	2.44	0.53
8:f4:103:LEU:CD2	13:M4:64:LEU:HD12	2.38	0.53
8:f4:105:TYR:CE1	8:f4:131:PHE:CB	2.85	0.53
14:N4:130:LYS:NZ	14:N4:137:PRO:O	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W4:26:LEU:HD21	16:W4:60:LYS:HD3	1.90	0.53
16:W4:103:VAL:HB	16:W4:110:ILE:HD11	1.90	0.53
21:i4:829:C:OP1	25:E4:22:LYS:N	2.41	0.53
23:B4:21:VAL:HG22	30:L5:31:GLU:HG3	0.57	0.53
31:P4:121:ILE:HB	34:S4:120:HIS:NE2	2.23	0.53
16:W5:11:LEU:HD21	16:W5:37:PHE:CE2	2.43	0.53
20:e5:28:LYS:O	20:e5:33:LYS:HE2	2.08	0.53
21:i5:211:G:H2'	21:i5:212:C:C6	2.43	0.53
21:i5:368:U:N3	36:k4:109:ALA:CA	2.71	0.53
21:i5:537:C:OP1	21:i5:539:C:N4	2.41	0.53
21:i5:1103:C:H2'	21:i5:1104:G:C8	2.44	0.53
21:i5:1522:A:O4'	31:P5:128:HIS:CG	2.61	0.53
21:i5:1775:U:H2'	21:i5:1776:G:C5'	2.37	0.53
25:E5:238:LEU:HD13	25:E5:242:LYS:HA	1.89	0.53
26:F5:32:ASP:CG	26:F5:33:ILE:H	2.15	0.53
28:I5:42:ARG:HG2	28:I5:59:ARG:HB2	1.90	0.53
30:L5:89:ARG:HG2	30:L5:108:ASN:HB3	1.90	0.53
34:S5:50:ILE:HD12	34:S5:67:VAL:HG21	1.87	0.53
2:U6:118:ASP:O	2:U6:119:ALA:HB3	2.07	0.53
18:Z6:48:VAL:HB	18:Z6:83:LEU:HD11	1.89	0.53
19:b6:34:ASP:HA	19:b6:45:THR:HA	1.90	0.53
21:i6:1265:A:H2	21:i6:1517:G:H22	1.55	0.53
21:i6:1300:U:C5	31:P6:51:ARG:CD	2.85	0.53
31:P6:41:GLN:O	31:P6:45:LEU:HD22	2.07	0.53
36:k1:114:PRO:HA	36:k1:117:THR:HG22	1.89	0.53
36:k5:92:LEU:CD1	36:k5:131:ILE:CG2	2.86	0.53
36:k5:94:HIS:ND1	36:k5:135:MET:CG	2.71	0.53
36:k5:146:GLY:CA	36:k5:167:ILE:HG13	2.37	0.53
37:l2:146:ARG:O	37:l2:150:GLN:HB2	2.08	0.53
37:l2:167:GLN:O	37:l2:170:PHE:CZ	2.61	0.53
37:l2:167:GLN:O	37:l2:170:PHE:HZ	1.91	0.53
37:l5:127:TYR:N	37:l5:168:GLY:HA2	2.23	0.53
37:l5:128:VAL:HG22	37:l5:167:GLN:HA	1.91	0.53
10:C1:68:ARG:NE	10:C1:277:HIS:HB2	2.23	0.53
20:e1:39:ASN:OD1	20:e1:43:VAL:HG21	2.09	0.53
21:i1:186:C:H3'	21:i1:186:C:H6	1.72	0.53
21:i1:1280:G:H1'	21:i1:1318:G:N2	2.23	0.53
21:i1:1322:G:H2'	21:i1:1323:U:O4'	2.08	0.53
21:i1:1842:C:OP1	35:j1:4:LYS:N	2.41	0.53
26:F1:18:LYS:HG3	26:F1:46:ALA:HB3	1.90	0.53
26:F1:128:ILE:N	26:F1:137:GLN:OE1	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I1:150:ASP:O	28:I1:154:LYS:NZ	2.39	0.53
28:I1:160:SER:OG	21:i6:956:G:C8	2.62	0.53
5:a2:102:ARG:N	5:a2:103:PRO:HA	2.20	0.53
9:g2:109:LEU:HD11	9:g2:125:ARG:HE	1.74	0.53
13:M2:27:ILE:CG2	29:K2:84:HIS:CG	2.91	0.53
14:N2:133:ARG:HB2	30:L2:152:LYS:HE2	1.89	0.53
17:Y2:99:LYS:O	17:Y2:101:LYS:NZ	2.41	0.53
20:e2:24:LYS:HG3	20:e2:25:LYS:HG3	1.91	0.53
20:e2:36:MET:HE3	21:i2:553:U:C5'	2.38	0.53
21:i2:1522:A:O4'	31:P2:128:HIS:CG	2.61	0.53
21:i2:1748:G:C6	21:i2:1749:G:C5	2.96	0.53
23:B2:24:PRO:HD2	30:L4:27:GLU:CB	2.38	0.53
28:I2:133:GLU:O	28:I2:137:LEU:N	2.41	0.53
33:R2:44:LYS:O	33:R2:48:ASN:ND2	2.41	0.53
2:U3:28:ASN:HD21	2:U3:30:LYS:HB3	1.74	0.53
8:f3:92:LYS:HD3	21:i3:1272:C:OP1	2.06	0.53
11:G3:50:VAL:HB	11:G3:111:LEU:HD11	1.88	0.53
14:N3:39:LYS:HA	14:N3:42:LYS:HZ3	1.72	0.53
28:I3:42:ARG:HG2	28:I3:59:ARG:HB2	1.91	0.53
28:I3:133:GLU:O	28:I3:137:LEU:N	2.41	0.53
15:O4:63:LYS:HE2	28:I5:163:GLU:HG3	1.87	0.53
17:Y4:9:THR:HG22	17:Y4:25:ILE:HA	1.90	0.53
21:i4:152:U:O2	21:i4:167:G:N2	2.41	0.53
21:i4:1388:A:O2'	24:D4:205:PRO:O	2.16	0.53
21:i4:1534:C:O2	21:i4:1598:G:N2	2.41	0.53
21:i4:1848:U:H5''	37:I4:146:ARG:NH1	2.22	0.53
25:E4:125:LYS:H	25:E4:142:HIS:CE1	2.26	0.53
33:R4:44:LYS:O	33:R4:48:ASN:ND2	2.42	0.53
2:U5:77:TRP:CD1	32:Q5:132:PHE:HB2	2.43	0.53
8:f5:103:LEU:CD2	13:M5:64:LEU:HD12	2.38	0.53
10:C5:68:ARG:NE	10:C5:277:HIS:HB2	2.23	0.53
11:G5:3:LEU:HD13	11:G5:5:ILE:HG13	1.90	0.53
11:G5:79:LYS:HB3	11:G5:86:PRO:HG3	1.90	0.53
11:G5:206:ALA:HA	11:G5:209:TYR:CD2	2.43	0.53
16:W5:103:VAL:HB	16:W5:110:ILE:HD11	1.90	0.53
21:i5:748:C:OP1	21:i5:796:G:N1	2.35	0.53
21:i5:1674:G:H5''	26:F5:86:LYS:HB3	1.90	0.53
21:i5:1841:C:OP1	35:j5:2:ARG:HD2	2.08	0.53
10:C6:68:ARG:NE	10:C6:277:HIS:HB2	2.23	0.53
17:Y6:99:LYS:O	17:Y6:101:LYS:NZ	2.41	0.53
21:i6:192:C:OP2	28:I6:141:ARG:CZ	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A6:211:GLU:HG3	33:R6:81:ARG:HH21	1.60	0.53
26:F6:18:LYS:HG3	26:F6:46:ALA:HB3	1.90	0.53
29:K6:94:LEU:O	29:K6:95:ARG:HB2	2.08	0.53
30:L6:145:VAL:O	30:L6:145:VAL:HG12	2.08	0.53
31:P6:123:TYR:C	31:P6:123:TYR:CD1	2.86	0.53
36:k4:93:PRO:O	36:k4:132:VAL:HB	2.09	0.53
36:k5:96:GLN:NE2	36:k5:122:LYS:CD	2.71	0.53
36:k6:17:LEU:HD21	36:k6:52:ILE:HG13	1.90	0.53
36:k6:147:VAL:N	36:k6:167:ILE:HD11	2.23	0.53
37:l1:146:ARG:O	37:l1:150:GLN:HB2	2.08	0.53
2:U1:56:MET:HE3	2:U1:57:PRO:HD2	1.91	0.53
10:C1:121:ARG:CZ	21:i1:1347:U:OP1	2.50	0.53
11:G1:143:LYS:CD	21:i1:1777:G:O5'	2.57	0.53
12:J1:14:VAL:HG23	12:J1:48:PHE:CD1	2.43	0.53
14:N1:34:LYS:HG2	14:N1:74:ILE:HD11	1.91	0.53
17:Y1:9:THR:HG22	17:Y1:25:ILE:HA	1.90	0.53
18:Z1:82:SER:CB	21:i1:1598:G:C2'	2.72	0.53
18:Z1:85:ARG:NH1	21:i1:1596:U:H6	2.03	0.53
21:i1:13:C:O3'	21:i1:1355:C:O2	2.26	0.53
21:i1:555:A:C8	21:i1:557:U:OP1	2.60	0.53
21:i1:1112:U:H2'	21:i1:1113:A:H4'	1.90	0.53
21:i1:1617:G:N2	21:i1:1620:A:O5'	2.42	0.53
25:E1:125:LYS:H	25:E1:142:HIS:CE1	2.26	0.53
28:I1:42:ARG:HG2	28:I1:59:ARG:HB2	1.90	0.53
33:R1:44:LYS:O	33:R1:48:ASN:ND2	2.42	0.53
8:f2:103:LEU:CD2	13:M2:64:LEU:HD12	2.38	0.53
12:J2:14:VAL:HG23	12:J2:48:PHE:CD1	2.43	0.53
21:i2:537:C:O2'	21:i2:548:C:N3	2.41	0.53
21:i2:913:A:OP2	27:H2:99:ARG:NH1	2.41	0.53
21:i2:1265:A:H2	21:i2:1517:G:H22	1.55	0.53
21:i2:1320:G:H2'	21:i2:1321:G:H4'	1.90	0.53
21:i2:1522:A:H8	31:P2:128:HIS:HB3	1.73	0.53
21:i2:1772:C:O4'	34:S5:112:GLU:CG	2.52	0.53
2:U3:118:ASP:O	2:U3:119:ALA:HB3	2.07	0.53
9:g3:109:LEU:HD11	9:g3:125:ARG:HE	1.74	0.53
16:W3:26:LEU:HD21	16:W3:60:LYS:HD3	1.90	0.53
21:i3:187:G:N3	21:i3:213:G:N2	2.57	0.53
21:i3:964:A:N1	21:i3:1065:G:O2'	2.36	0.53
15:O4:14:VAL:HG21	15:O4:18:GLY:HA3	1.90	0.53
17:Y4:29:HIS:ND1	17:Y4:29:HIS:O	2.42	0.53
21:i4:1674:G:H5''	26:F4:86:LYS:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1706:G:H5'	35:j4:1:MET:H3	1.73	0.53
22:A4:205:ARG:CB	22:A4:210:ILE:HG21	2.39	0.53
28:I4:133:GLU:O	28:I4:137:LEU:N	2.41	0.53
33:R4:100:PRO:HD3	33:R4:118:GLN:HB2	1.89	0.53
1:T5:116:ASP:HB2	1:T5:120:GLY:HA3	1.89	0.53
5:a5:85:ARG:HG3	5:a5:86:ASN:H	1.74	0.53
11:G5:218:LYS:O	11:G5:221:LYS:NZ	2.27	0.53
17:Y5:29:HIS:ND1	17:Y5:29:HIS:O	2.42	0.53
17:Y5:99:LYS:O	17:Y5:101:LYS:NZ	2.41	0.53
21:i5:1322:G:H2'	21:i5:1323:U:O4'	2.08	0.53
26:F5:18:LYS:HG3	26:F5:46:ALA:HB3	1.90	0.53
30:L5:42:LEU:HD21	30:L5:72:ILE:HD11	1.90	0.53
2:U6:77:TRP:CD1	32:Q6:132:PHE:HB2	2.44	0.53
4:X6:70:VAL:O	4:X6:83:ALA:N	2.37	0.53
8:f6:103:LEU:CD2	13:M6:64:LEU:HD12	2.38	0.53
11:G6:3:LEU:HD13	11:G6:5:ILE:HG13	1.90	0.53
14:N6:34:LYS:HG2	14:N6:74:ILE:HD11	1.91	0.53
16:W6:65:LEU:O	16:W6:67:GLY:N	2.40	0.53
20:e6:24:LYS:HG3	20:e6:25:LYS:HG3	1.91	0.53
21:i6:739:C:C2'	21:i6:746:C:N4	2.72	0.53
21:i6:1144:A:O4'	21:i6:1355:C:N4	2.42	0.53
21:i6:1617:G:N2	21:i6:1620:A:O5'	2.42	0.53
21:i6:1775:U:H2'	21:i6:1776:G:C5'	2.37	0.53
21:i6:1849:G:OP2	37:l6:146:ARG:CZ	2.56	0.53
24:D6:204:LEU:O	24:D6:206:ASP:N	2.36	0.53
26:F6:179:ASN:HB2	26:F6:187:SER:HB3	1.89	0.53
30:L6:153:LYS:O	30:L6:153:LYS:NZ	2.39	0.53
36:k6:145:VAL:C	36:k6:167:ILE:CG1	2.47	0.53
1:T1:131:LEU:HD12	1:T1:134:ILE:HD11	1.91	0.53
8:f1:99:LYS:HB3	21:i1:1285:G:C2	2.43	0.53
9:g1:8:ARG:HB2	9:g1:309:VAL:HG23	1.91	0.53
11:G1:206:ALA:HA	11:G1:209:TYR:CD2	2.43	0.53
17:Y1:99:LYS:O	17:Y1:101:LYS:NZ	2.41	0.53
19:b1:37:CYS:C	19:b1:77:CYS:SG	2.91	0.53
21:i1:829:C:OP1	25:E1:22:LYS:N	2.42	0.53
21:i1:1210:G:N2	21:i1:1690:U:C1'	2.66	0.53
22:A1:217:ALA:HB1	22:A1:220:LYS:CE	2.34	0.53
25:E1:238:LEU:HD13	25:E1:242:LYS:HA	1.89	0.53
26:F1:88:MET:HE3	26:F1:91:ARG:HH21	1.73	0.53
31:P1:123:TYR:CD1	31:P1:123:TYR:C	2.86	0.53
21:i2:318:A:C6	21:i2:333:G:N2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:829:C:OP1	25:E2:22:LYS:N	2.41	0.53
25:E2:177:THR:HA	25:E2:195:ILE:HB	1.91	0.53
31:P2:121:ILE:HB	34:S2:120:HIS:NE2	2.23	0.53
31:P2:123:TYR:CD1	31:P2:123:TYR:C	2.85	0.53
9:g3:178:ASN:HB2	9:g3:182:CYS:HA	1.88	0.53
10:C3:63:VAL:N	10:C3:90:GLU:OE2	2.40	0.53
10:C3:194:ARG:N	10:C3:225:SER:OG	2.42	0.53
16:W3:101:PHE:HA	16:W3:113:HIS:HD2	1.73	0.53
24:D3:135:GLU:OE2	24:D3:159:HIS:NE2	2.36	0.53
26:F3:32:ASP:CG	26:F3:33:ILE:H	2.16	0.53
1:T4:38:LYS:NZ	21:i4:1628:C:OP1	2.35	0.53
2:U4:87:ARG:NH1	21:i4:1447:G:OP1	2.36	0.53
5:a4:101:PHE:HD2	5:a4:101:PHE:N	2.06	0.53
9:g4:109:LEU:HD11	9:g4:125:ARG:HE	1.74	0.53
19:b4:34:ASP:HA	19:b4:45:THR:HA	1.89	0.53
21:i4:647:U:H2'	21:i4:648:A:C8	2.44	0.53
21:i4:1452:A:N7	21:i4:1475:G:N1	2.57	0.53
1:T5:131:LEU:HD12	1:T5:134:ILE:HD11	1.91	0.53
18:Z5:85:ARG:HH11	21:i5:1596:U:H5	0.62	0.53
26:F5:175:ASP:OD1	26:F5:176:GLU:N	2.40	0.53
33:R5:73:LEU:C	33:R5:75:GLU:N	2.61	0.53
2:U6:56:MET:HE3	2:U6:57:PRO:HD2	1.90	0.53
9:g6:147:HIS:CE1	9:g6:173:LEU:HB2	2.30	0.53
10:C6:142:LYS:HD3	10:C6:153:GLY:C	2.33	0.53
12:J6:87:LEU:HG	12:J6:91:LYS:HE3	1.90	0.53
14:N6:84:LEU:HD21	14:N6:149:LEU:O	2.09	0.53
22:A6:128:ARG:HD3	22:A6:153:PRO:HD2	1.91	0.53
23:B6:138:PHE:O	23:B6:213:ARG:N	2.39	0.53
36:k1:96:GLN:HB3	36:k1:122:LYS:O	2.08	0.53
36:k2:174:LEU:O	36:k2:177:MET:N	2.42	0.53
36:k4:114:PRO:HA	36:k4:117:THR:HG22	1.89	0.53
37:l1:127:TYR:N	37:l1:168:GLY:HA2	2.24	0.53
37:l2:128:VAL:HG22	37:l2:167:GLN:HA	1.91	0.53
2:U1:28:ASN:HD21	2:U1:30:LYS:HB3	1.73	0.53
8:f1:111:ASN:O	17:Y2:131:PRO:HD3	2.08	0.53
11:G1:24:LEU:O	11:G1:26:THR:N	2.41	0.53
15:O1:85:CYS:HB2	15:O1:90:ILE:HD11	1.91	0.53
17:Y1:10:ARG:HB2	21:i1:833:C:N4	2.24	0.53
21:i1:413:G:H2'	21:i1:414:A:H8	1.74	0.53
21:i1:1377:U:H5	22:A1:102:ARG:NH1	1.54	0.53
21:i1:1674:G:H5''	26:F1:86:LYS:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A1:205:ARG:CB	22:A1:210:ILE:HG21	2.39	0.53
25:E1:177:THR:HA	25:E1:195:ILE:HB	1.91	0.53
11:G2:3:LEU:HD13	11:G2:5:ILE:HG13	1.91	0.53
11:G2:153:VAL:O	11:G2:155:GLN:N	2.42	0.53
11:G2:220:ALA:HA	11:G2:223:LYS:HZ1	1.74	0.53
17:Y2:9:THR:HG22	17:Y2:25:ILE:HA	1.90	0.53
17:Y2:10:ARG:HB2	21:i2:833:C:N4	2.24	0.53
21:i2:557:U:C3'	21:i2:558:G:H8	2.20	0.53
21:i2:1693:G:H21	21:i2:1834:A:H1'	1.73	0.53
29:K2:94:LEU:O	29:K2:95:ARG:HB2	2.08	0.53
30:L2:42:LEU:HD21	30:L2:72:ILE:HD11	1.90	0.53
17:Y3:50:THR:O	17:Y3:51:THR:OG1	2.26	0.53
21:i3:331:C:H2'	21:i3:332:G:C8	2.44	0.53
21:i3:1171:G:N2	21:i3:1188:A:OP2	2.36	0.53
24:D3:55:THR:HG23	24:D3:56:GLN:H	1.72	0.53
25:E3:62:LYS:HA	25:E3:80:ILE:HG12	1.91	0.53
26:F3:128:ILE:N	26:F3:137:GLN:OE1	2.35	0.53
30:L3:42:LEU:HD21	30:L3:72:ILE:HD11	1.90	0.53
33:R3:58:MET:C	33:R3:61:ILE:HG12	2.34	0.53
2:U4:28:ASN:HD21	2:U4:30:LYS:HB3	1.74	0.53
10:C4:273:LEU:HD13	10:C4:280:VAL:CB	2.35	0.53
12:J4:97:ILE:HA	12:J4:100:LEU:HD13	1.89	0.53
15:O4:63:LYS:NZ	28:I5:163:GLU:HB2	2.21	0.53
17:Y4:94:HIS:NE2	17:Y4:96:LEU:HD23	2.24	0.53
18:Z4:68:ILE:HG22	18:Z4:109:TYR:HD2	1.73	0.53
19:b4:37:CYS:HA	19:b4:63:LEU:HD21	1.89	0.53
21:i4:843:C:H2'	21:i4:844:U:H5'	1.91	0.53
21:i4:941:C:H2'	21:i4:942:G:C8	2.43	0.53
21:i4:1236:G:H5'	31:P4:133:ILE:CD1	2.17	0.53
21:i4:1617:G:N2	21:i4:1620:A:O5'	2.42	0.53
27:H4:162:GLN:HA	27:H4:162:GLN:OE1	2.08	0.53
2:U5:18:HIS:CG	2:U5:117:ALA:HB1	2.43	0.53
8:f5:80:ARG:NE	21:i5:1509:U:C4	2.77	0.53
11:G5:153:VAL:O	11:G5:155:GLN:N	2.42	0.53
12:J5:14:VAL:HG23	12:J5:48:PHE:HD1	1.74	0.53
14:N5:34:LYS:HG2	14:N5:74:ILE:HD11	1.91	0.53
16:W5:56:HIS:O	21:i5:918:U:O2'	2.23	0.53
19:b5:34:ASP:HA	19:b5:45:THR:HA	1.91	0.53
20:e5:24:LYS:HG3	20:e5:25:LYS:HG3	1.91	0.53
21:i5:525:A:H8	21:i5:525:A:O5'	1.92	0.53
24:D5:60:GLY:HA3	24:D5:65:ARG:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D5:124:ARG:O	24:D5:128:GLU:N	2.40	0.53
26:F5:185:SER:O	26:F5:191:LYS:NZ	2.33	0.53
2:U6:18:HIS:CG	2:U6:117:ALA:HB1	2.43	0.53
5:a6:101:PHE:CD2	5:a6:101:PHE:N	2.77	0.53
11:G6:94:ARG:NH2	21:i6:1737:G:OP1	2.42	0.53
12:J6:127:ARG:NH2	21:i6:523:A:OP2	2.36	0.53
18:Z6:85:ARG:NH1	21:i6:1596:U:H6	2.02	0.53
21:i6:628:A:C2	24:D6:179:GLN:CD	2.86	0.53
21:i6:1753:C:O2'	21:i6:1754:G:H5''	2.09	0.53
22:A6:210:ILE:HG13	22:A6:211:GLU:N	2.22	0.53
25:E6:62:LYS:HA	25:E6:80:ILE:HG12	1.91	0.53
36:k6:95:GLN:O	36:k6:96:GLN:C	2.51	0.53
37:l3:117:ILE:CD1	37:l3:174:ILE:HG13	2.38	0.53
37:l6:127:TYR:N	37:l6:168:GLY:HA2	2.23	0.53
37:l6:146:ARG:O	37:l6:150:GLN:HB2	2.08	0.53
2:U1:60:THR:HG23	2:U1:81:GLN:HE22	1.74	0.53
5:a1:85:ARG:HG3	5:a1:86:ASN:H	1.74	0.53
8:f1:105:TYR:CE2	8:f1:106:TYR:CE2	2.91	0.53
13:M1:28:HIS:NE2	13:M1:116:LYS:HE3	2.22	0.53
14:N1:84:LEU:HD21	14:N1:149:LEU:O	2.09	0.53
21:i1:1378:A:P	22:A1:132:GLN:CD	2.92	0.53
29:K1:94:LEU:O	29:K1:95:ARG:HB2	2.08	0.53
9:g2:8:ARG:HB2	9:g2:309:VAL:HG23	1.91	0.53
9:g2:149:GLU:CD	9:g2:170:TRP:HB2	2.34	0.53
11:G2:219:GLU:O	11:G2:223:LYS:N	2.38	0.53
15:O2:14:VAL:HG21	15:O2:18:GLY:HA3	1.90	0.53
16:W2:11:LEU:HD21	16:W2:37:PHE:CE2	2.43	0.53
21:i2:970:G:N2	28:I4:200:ARG:CG	2.66	0.53
21:i2:1544:C:H42	21:i2:1588:A:H8	1.57	0.53
26:F2:137:GLN:HG3	26:F2:204:ARG:N	2.19	0.53
29:K2:24:LYS:HE2	29:K2:65:ARG:HD3	1.90	0.53
34:S2:50:ILE:HD11	34:S2:67:VAL:HG23	1.91	0.53
9:g3:8:ARG:HB2	9:g3:309:VAL:HG23	1.91	0.53
9:g3:220:ASP:HB2	9:g3:225:LYS:N	2.23	0.53
10:C3:68:ARG:NE	10:C3:277:HIS:HB2	2.23	0.53
11:G3:153:VAL:O	11:G3:155:GLN:N	2.42	0.53
11:G3:206:ALA:HA	11:G3:209:TYR:CD2	2.43	0.53
12:J3:4:ALA:HB3	12:J3:5:ARG:HA	1.90	0.53
21:i3:413:G:H2'	21:i3:414:A:H8	1.73	0.53
21:i3:1300:U:C5	31:P3:51:ARG:CD	2.86	0.53
21:i3:1617:G:N2	21:i3:1620:A:O5'	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1621:U:O2	31:P3:117:GLY:O	2.27	0.53
23:B3:105:LEU:HD23	23:B3:110:MET:HE2	1.90	0.53
1:T4:131:LEU:HD12	1:T4:134:ILE:HD11	1.91	0.53
8:f4:95:ARG:CD	21:i4:1289:U:C5'	2.76	0.53
9:g4:220:ASP:HB2	9:g4:225:LYS:N	2.22	0.53
20:e4:31:ARG:NH1	21:i4:525:A:O2'	2.42	0.53
21:i4:430:C:H2'	21:i4:431:G:C8	2.44	0.53
21:i4:1521:C:H42	34:S4:137:LYS:CE	2.21	0.53
21:i4:1621:U:O2	31:P4:117:GLY:O	2.27	0.53
22:A4:128:ARG:HD3	22:A4:153:PRO:HD2	1.91	0.53
4:X5:61:GLN:CD	21:i5:1824:A:H8	2.16	0.53
11:G5:190:ARG:NH2	21:i5:332:G:C5	2.72	0.53
21:i5:1777:G:C5	21:i5:1778:C:C4	2.97	0.53
23:B5:105:LEU:HD23	23:B5:110:MET:HE2	1.90	0.53
25:E5:151:ASP:O	25:E5:154:ILE:HG12	2.08	0.53
1:T6:131:LEU:HD12	1:T6:134:ILE:HD11	1.91	0.53
6:c6:13:ARG:NH1	6:c6:33:GLU:OE1	2.33	0.53
15:O6:14:VAL:HG21	15:O6:18:GLY:HA3	1.90	0.53
21:i6:127:C:O2'	21:i6:184:G:N1	2.37	0.53
21:i6:130:G:O5'	21:i6:214:U:O4	2.27	0.53
21:i6:413:G:H2'	21:i6:414:A:H8	1.73	0.53
28:I6:150:ASP:O	28:I6:154:LYS:NZ	2.39	0.53
33:R6:44:LYS:O	33:R6:48:ASN:ND2	2.42	0.53
37:I4:128:VAL:HG22	37:I4:167:GLN:HA	1.91	0.53
37:I6:127:TYR:O	37:I6:169:ASP:CA	2.43	0.53
5:a1:101:PHE:HD2	5:a1:101:PHE:N	2.06	0.53
11:G1:153:VAL:O	11:G1:155:GLN:N	2.42	0.53
16:W1:65:LEU:O	16:W1:67:GLY:N	2.40	0.53
21:i1:1070:A:OP2	36:k1:18:LYS:CD	2.57	0.53
24:D1:76:ARG:O	24:D1:76:ARG:NH1	2.37	0.53
28:I1:123:ARG:NH1	15:O6:66:ARG:N	2.57	0.53
29:K1:24:LYS:HE2	29:K1:65:ARG:HD3	1.90	0.53
11:G2:141:ILE:HG12	11:G2:144:LEU:CD2	1.94	0.53
13:M2:111:VAL:CG1	13:M2:114:TYR:HE1	2.08	0.53
21:i2:448:A:H5''	28:I2:25:ARG:HA	1.91	0.53
21:i2:737:G:H5''	21:i2:738:C:O4'	2.08	0.53
21:i2:969:U:O2	28:I4:193:LYS:NZ	2.42	0.53
21:i2:1210:G:H1	21:i2:1689:C:N4	2.04	0.53
26:F2:32:ASP:CG	26:F2:33:ILE:H	2.16	0.53
27:H2:108:SER:HB3	27:H2:113:LYS:HD3	1.89	0.53
2:U3:60:THR:HG23	2:U3:81:GLN:HE22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a3:85:ARG:HG3	5:a3:86:ASN:H	1.74	0.53
11:G3:219:GLU:O	11:G3:223:LYS:N	2.38	0.53
17:Y3:94:HIS:NE2	17:Y3:96:LEU:HD23	2.24	0.53
21:i3:829:C:OP1	25:E3:22:LYS:N	2.42	0.53
21:i3:1865:C:H5'	21:i3:1866:A:C8	2.44	0.53
25:E3:151:ASP:O	25:E3:154:ILE:HG12	2.08	0.53
26:F3:18:LYS:HG3	26:F3:46:ALA:HB3	1.90	0.53
34:S3:50:ILE:HD11	34:S3:67:VAL:HG23	1.91	0.53
2:U4:19:ARG:CD	2:U4:119:ALA:O	2.23	0.53
17:Y4:10:ARG:HB2	21:i4:833:C:N4	2.24	0.53
17:Y4:99:LYS:O	17:Y4:101:LYS:NZ	2.41	0.53
21:i4:213:G:N2	21:i4:214:U:C6	2.75	0.53
21:i4:969:U:OP1	21:i4:970:G:O2'	2.22	0.53
21:i4:1865:C:H5'	21:i4:1866:A:C8	2.44	0.53
25:E4:184:THR:O	25:E4:224:ASN:ND2	2.42	0.53
26:F4:18:LYS:HG3	26:F4:46:ALA:HB3	1.90	0.53
26:F4:133:THR:CG2	26:F4:135:ARG:HE	2.22	0.53
27:H4:108:SER:HB3	27:H4:113:LYS:HD3	1.90	0.53
6:c5:13:ARG:NH1	6:c5:33:GLU:OE1	2.33	0.53
17:Y5:9:THR:HG22	17:Y5:25:ILE:HA	1.90	0.53
21:i5:356:C:OP2	30:L5:105:ARG:NH1	2.20	0.53
21:i5:1174:U:P	35:j5:21:ARG:NH2	2.81	0.53
21:i5:1621:U:O2	31:P5:117:GLY:O	2.27	0.53
22:A5:205:ARG:CB	22:A5:210:ILE:HG21	2.39	0.53
24:D5:67:ARG:CG	29:K5:96:ARG:HH21	2.22	0.53
28:I5:207:GLY:C	36:k4:12:SER:HB3	2.34	0.53
9:g6:131:LEU:HB3	9:g6:139:LYS:HB3	1.89	0.53
10:C6:68:ARG:NH2	10:C6:276:THR:OG1	2.40	0.53
10:C6:194:ARG:N	10:C6:225:SER:OG	2.42	0.53
21:i6:1388:A:O2'	24:D6:205:PRO:O	2.15	0.53
21:i6:1521:C:H42	34:S6:137:LYS:CE	2.21	0.53
21:i6:1621:U:O2	31:P6:117:GLY:O	2.27	0.53
31:P6:41:GLN:CG	31:P6:84:ILE:HD13	2.38	0.53
33:R6:32:LYS:HZ1	33:R6:47:ARG:HH21	1.57	0.53
34:S6:50:ILE:HD11	34:S6:67:VAL:HG23	1.91	0.53
36:k4:169:TYR:N	36:k4:169:TYR:HD2	2.07	0.53
37:l1:117:ILE:CD1	37:l1:174:ILE:HG13	2.38	0.53
37:l2:127:TYR:N	37:l2:168:GLY:HA2	2.23	0.53
37:l6:152:PHE:HE1	37:l6:173:ASP:OD1	1.92	0.53
2:U1:97:ILE:HG23	2:U1:100:GLN:HB3	1.91	0.53
8:f1:96:LYS:HZ3	21:i1:1306:U:H3'	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:87:LEU:HG	12:J1:91:LYS:HE3	1.90	0.53
17:Y1:94:HIS:NE2	17:Y1:96:LEU:HD23	2.24	0.53
20:e1:24:LYS:HG3	20:e1:25:LYS:HG3	1.91	0.53
21:i1:309:G:H2'	21:i1:310:C:N1	2.24	0.53
21:i1:1621:U:O2	31:P1:117:GLY:O	2.27	0.53
21:i1:1741:U:H2'	21:i1:1742:C:O4'	2.09	0.53
21:i1:1749:G:N2	21:i1:1786:U:O2	2.42	0.53
26:F1:32:ASP:CG	26:F1:33:ILE:H	2.15	0.53
27:H1:134:VAL:HG12	27:H1:137:SER:HB3	1.91	0.53
30:L1:126:VAL:HG21	30:L1:145:VAL:HG22	1.91	0.53
2:U2:49:LYS:O	2:U2:51:LYS:N	2.36	0.53
2:U2:97:ILE:HG23	2:U2:100:GLN:HB3	1.91	0.53
8:f2:80:ARG:NE	21:i2:1509:U:C4	2.76	0.53
8:f2:80:ARG:HH21	21:i2:1503:C:H1'	1.74	0.53
8:f2:95:ARG:CD	21:i2:1289:U:C5'	2.76	0.53
9:g2:299:PHE:CD1	9:g2:309:VAL:HG12	2.44	0.53
12:J2:144:ILE:HG21	21:i2:824:C:H1'	1.91	0.53
14:N2:34:LYS:HG2	14:N2:74:ILE:HD11	1.91	0.53
17:Y2:111:LYS:NZ	21:i2:56:G:OP1	2.41	0.53
20:e2:5:SER:O	20:e2:7:ALA:N	2.39	0.53
21:i2:551:U:H3'	21:i2:552:G:H8	1.74	0.53
21:i2:1280:G:H1'	21:i2:1318:G:N2	2.23	0.53
21:i2:1619:A:H4'	31:P2:44:ARG:NH2	2.24	0.53
21:i2:1674:G:H5''	26:F2:86:LYS:HB3	1.91	0.53
21:i2:1865:C:H5'	21:i2:1866:A:C8	2.44	0.53
24:D2:124:ARG:O	24:D2:128:GLU:N	2.40	0.53
25:E2:62:LYS:HA	25:E2:80:ILE:HG12	1.91	0.53
26:F2:127:ARG:HB3	26:F2:128:ILE:HG12	1.87	0.53
27:H2:134:VAL:HG12	27:H2:137:SER:HB3	1.91	0.53
33:R2:100:PRO:HD3	33:R2:118:GLN:HB2	1.89	0.53
2:U3:47:ASN:HA	2:U3:48:LEU:HB2	1.91	0.53
8:f3:93:HIS:CG	21:i3:1304:U:H5'	2.38	0.53
14:N3:34:LYS:HG2	14:N3:74:ILE:HD11	1.91	0.53
14:N3:84:LEU:HA	14:N3:135:LEU:CD2	2.39	0.53
16:W3:11:LEU:HD21	16:W3:37:PHE:CE2	2.43	0.53
17:Y3:9:THR:HG22	17:Y3:25:ILE:HA	1.90	0.53
20:e3:24:LYS:HG3	20:e3:25:LYS:HG3	1.91	0.53
20:e3:45:VAL:HG11	21:i3:535:G:H5''	1.86	0.53
21:i3:696:G:N2	21:i3:734:C:C5'	2.70	0.53
26:F3:182:LYS:HZ2	21:i6:200:G:C3'	2.21	0.53
31:P3:34:MET:CA	31:P3:42:ARG:HG3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C4:63:VAL:N	10:C4:90:GLU:OE2	2.40	0.53
11:G4:24:LEU:O	11:G4:26:THR:N	2.41	0.53
11:G4:153:VAL:O	11:G4:155:GLN:N	2.42	0.53
20:e4:8:ARG:HH11	20:e4:11:LYS:HD2	1.74	0.53
21:i4:213:G:C2	21:i4:214:U:C6	2.97	0.53
21:i4:309:G:H2'	21:i4:310:C:N1	2.24	0.53
1:T5:111:LYS:HB3	1:T5:126:GLN:NE2	2.24	0.53
2:U5:28:ASN:HD21	2:U5:30:LYS:HB3	1.74	0.53
11:G5:142:ARG:CD	11:G5:147:LEU:HD12	2.32	0.53
13:M5:27:ILE:CG2	29:K5:84:HIS:CG	2.91	0.53
21:i5:557:U:H2'	21:i5:558:G:C5	2.31	0.53
21:i5:974:C:H2'	21:i5:975:G:H8	1.74	0.53
25:E5:62:LYS:HA	25:E5:80:ILE:HG12	1.91	0.53
25:E5:184:THR:O	25:E5:224:ASN:ND2	2.42	0.53
31:P5:119:PHE:HE1	34:S5:119:ALA:HB1	1.46	0.53
9:g6:149:GLU:CD	9:g6:170:TRP:HB2	2.34	0.53
11:G6:79:LYS:HB3	11:G6:86:PRO:HG3	1.90	0.53
11:G6:206:ALA:HA	11:G6:209:TYR:CD2	2.43	0.53
17:Y6:29:HIS:ND1	17:Y6:29:HIS:O	2.42	0.53
21:i6:1103:C:H2'	21:i6:1104:G:C8	2.44	0.53
21:i6:1674:G:H5''	26:F6:86:LYS:HB3	1.91	0.53
23:B6:130:THR:HB	23:B6:180:ASP:OD1	2.09	0.53
25:E6:184:THR:O	25:E6:224:ASN:ND2	2.42	0.53
28:I6:42:ARG:HG2	28:I6:59:ARG:HB2	1.91	0.53
30:L6:121:GLN:CB	30:L6:153:LYS:HG3	2.38	0.53
36:k5:17:LEU:HD21	36:k5:52:ILE:HG13	1.90	0.53
36:k5:96:GLN:HB3	36:k5:122:LYS:O	2.08	0.53
37:l1:118:ALA:O	37:l1:129:THR:HG22	2.07	0.53
37:l3:127:TYR:N	37:l3:168:GLY:HA2	2.23	0.53
2:U1:47:ASN:HA	2:U1:48:LEU:HB2	1.91	0.53
17:Y1:111:LYS:NZ	21:i1:56:G:OP1	2.41	0.53
19:b1:21:LYS:O	19:b1:23:ARG:N	2.38	0.53
21:i1:211:G:C5	21:i1:212:C:N3	2.77	0.53
21:i1:430:C:H2'	21:i1:431:G:C8	2.44	0.53
21:i1:538:U:H5''	21:i1:546:G:C4	2.44	0.53
21:i1:688:U:O2'	21:i1:689:U:OP2	2.27	0.53
21:i1:1522:A:H8	31:P1:128:HIS:HB3	1.74	0.53
21:i1:1780:G:C5	21:i1:1781:A:H8	2.26	0.53
21:i1:1849:G:H5''	37:l1:146:ARG:NH2	2.23	0.53
24:D1:67:ARG:CG	29:K1:96:ARG:HH21	2.22	0.53
25:E1:62:LYS:HA	25:E1:80:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E1:124:CYS:O	25:E1:160:ILE:N	2.29	0.53
25:E1:184:THR:O	25:E1:224:ASN:ND2	2.42	0.53
26:F1:45:TYR:H	26:F1:46:ALA:HA	1.74	0.53
32:Q1:134:GLY:HA3	32:Q1:141:TYR:H	1.74	0.53
14:N2:17:PRO:O	14:N2:20:ARG:NH1	2.30	0.53
14:N2:141:TYR:CE1	14:N2:146:ALA:HB1	2.44	0.53
19:b2:34:ASP:HA	19:b2:45:THR:HA	1.90	0.53
21:i2:430:C:H2'	21:i2:431:G:C8	2.44	0.53
21:i2:843:C:H2'	21:i2:844:U:H5'	1.91	0.53
21:i2:1545:A:HO2'	21:i2:1546:G:H8	1.57	0.53
21:i2:1617:G:N2	21:i2:1620:A:O5'	2.42	0.53
21:i2:1849:G:C5	37:l2:149:ALA:CB	2.90	0.53
22:A2:190:SER:O	22:A2:192:GLU:N	2.40	0.53
25:E2:125:LYS:H	25:E2:142:HIS:CE1	2.26	0.53
34:S2:50:ILE:HD12	34:S2:67:VAL:HG23	1.83	0.53
2:U3:56:MET:HE3	2:U3:57:PRO:HD2	1.90	0.53
9:g3:299:PHE:CD1	9:g3:309:VAL:HG12	2.44	0.53
21:i3:1103:C:H2'	21:i3:1104:G:C8	2.43	0.53
22:A3:190:SER:O	22:A3:192:GLU:N	2.40	0.53
25:E3:45:ILE:HA	25:E3:61:VAL:HG11	1.91	0.53
27:H3:108:SER:HB3	27:H3:113:LYS:HD3	1.90	0.53
28:I3:197:PHE:CD2	30:L3:10:TYR:HB2	2.43	0.53
4:X4:48:LYS:HB3	4:X4:99:GLU:OE2	2.09	0.53
10:C4:194:ARG:N	10:C4:225:SER:OG	2.42	0.53
13:M4:52:LEU:O	13:M4:78:LYS:HA	2.09	0.53
15:O4:63:LYS:CE	28:I5:163:GLU:CG	2.84	0.53
21:i4:12:U:C1'	21:i4:1357:A:C1'	2.86	0.53
21:i4:314:U:O2	21:i4:337:C:C2	2.62	0.53
21:i4:413:G:H2'	21:i4:414:A:H8	1.74	0.53
21:i4:440:G:OP1	28:I4:24:LYS:NZ	2.41	0.53
21:i4:553:U:O4	21:i4:554:A:N6	2.42	0.53
21:i4:1322:G:H2'	21:i4:1323:U:O4'	2.08	0.53
21:i4:1544:C:H42	21:i4:1588:A:H8	1.57	0.53
21:i4:1702:G:H8	21:i4:1702:G:O5'	1.91	0.53
22:A4:217:ALA:HB1	22:A4:220:LYS:CE	2.33	0.53
33:R4:32:LYS:HZ1	33:R4:47:ARG:HH21	1.57	0.53
2:U5:47:ASN:HA	2:U5:48:LEU:HB2	1.91	0.53
2:U5:60:THR:HG23	2:U5:81:GLN:HE22	1.74	0.53
5:a5:101:PHE:CD2	5:a5:101:PHE:N	2.77	0.53
12:J5:29:LEU:HG	20:e5:38:TYR:HB2	1.91	0.53
13:M5:36:ARG:HH22	21:i5:1310:U:H5	1.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e5:31:ARG:NH1	21:i5:525:A:O2'	2.42	0.53
21:i5:305:U:H5'	28:I5:41:ARG:NH2	2.24	0.53
21:i5:829:C:OP1	25:E5:22:LYS:N	2.41	0.53
29:K5:51:SER:O	29:K5:54:SER:OG	2.25	0.53
4:X6:22:TRP:NE1	21:i6:359:U:OP1	2.37	0.53
10:C6:68:ARG:CD	10:C6:277:HIS:HB3	2.36	0.53
11:G6:24:LEU:O	11:G6:26:THR:N	2.42	0.53
11:G6:147:LEU:HD13	11:G6:148:SER:HB3	1.91	0.53
11:G6:153:VAL:O	11:G6:155:GLN:N	2.42	0.53
14:N6:42:LYS:N	14:N6:42:LYS:HD2	2.22	0.53
16:W6:77:PRO:HG2	16:W6:79:PHE:CE2	2.43	0.53
21:i6:334:C:H2'	21:i6:335:G:C8	2.44	0.53
21:i6:551:U:H3'	21:i6:552:G:H8	1.74	0.53
21:i6:1144:A:H5'	21:i6:1355:C:C5	2.43	0.53
21:i6:1544:C:H42	21:i6:1588:A:H8	1.57	0.53
21:i6:1644:C:OP1	32:Q6:143:LYS:N	2.38	0.53
22:A6:205:ARG:CB	22:A6:210:ILE:HG21	2.39	0.53
25:E6:151:ASP:O	25:E6:154:ILE:HG12	2.08	0.53
36:k1:146:GLY:CA	36:k1:167:ILE:HG13	2.38	0.53
36:k2:86:HIS:CB	36:k2:141:HIS:CD2	2.63	0.53
36:k2:114:PRO:HA	36:k2:117:THR:HG22	1.89	0.53
36:k4:94:HIS:HA	36:k4:133:ALA:C	2.21	0.53
36:k5:86:HIS:NE2	36:k5:142:ALA:O	2.39	0.53
36:k5:94:HIS:ND1	36:k5:135:MET:HG2	2.24	0.53
37:l2:113:GLN:HB3	37:l2:114:LYS:HE3	1.91	0.53
37:l3:113:GLN:HB3	37:l3:114:LYS:HE3	1.91	0.53
37:l5:123:ALA:HB3	37:l5:126:LYS:CG	2.39	0.53
37:l6:183:PRO:C	37:l6:184:GLU:HG2	2.34	0.53
12:J1:14:VAL:HG23	12:J1:48:PHE:HD1	1.74	0.52
18:Z1:68:ILE:HG22	18:Z1:109:TYR:HD2	1.73	0.52
21:i1:537:C:O2'	21:i1:548:C:N3	2.41	0.52
22:A1:128:ARG:HD3	22:A1:153:PRO:HD2	1.91	0.52
2:U2:77:TRP:CD1	32:Q2:132:PHE:HB2	2.43	0.52
10:C2:114:LYS:HB2	21:i2:1358:U:OP1	2.09	0.52
11:G2:24:LEU:O	11:G2:26:THR:N	2.42	0.52
15:O2:84:ARG:NH2	30:L4:27:GLU:OE1	2.42	0.52
18:Z2:50:PHE:HB3	18:Z2:58:LEU:HD21	1.89	0.52
29:K2:13:GLU:O	29:K2:17:LYS:N	2.42	0.52
30:L2:89:ARG:HG2	30:L2:108:ASN:HB3	1.90	0.52
31:P2:133:ILE:HG22	31:P2:134:GLY:N	2.25	0.52
12:J3:14:VAL:HG23	12:J3:48:PHE:CD1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:537:C:O2'	21:i3:548:C:N3	2.41	0.52
21:i3:1236:G:C5'	31:P3:133:ILE:CG1	2.86	0.52
21:i3:1320:G:H2'	21:i3:1321:G:H4'	1.90	0.52
21:i3:1522:A:H8	31:P3:128:HIS:HB3	1.73	0.52
21:i3:1644:C:OP1	32:Q3:143:LYS:N	2.38	0.52
21:i3:1842:C:C2'	35:j3:4:LYS:NZ	2.72	0.52
22:A3:39:TYR:HB2	22:A3:50:ASN:HB3	1.91	0.52
26:F3:127:ARG:CB	26:F3:128:ILE:CG1	2.86	0.52
29:K3:24:LYS:HE2	29:K3:65:ARG:HD3	1.90	0.52
5:a4:101:PHE:HD1	5:a4:102:ARG:NH1	2.08	0.52
9:g4:27:PHE:HB3	9:g4:30:MET:HB3	1.92	0.52
15:O4:85:CYS:HB2	15:O4:90:ILE:HD11	1.91	0.52
21:i4:213:G:H21	21:i4:214:U:C1'	2.21	0.52
21:i4:305:U:H5'	28:I4:41:ARG:NH2	2.24	0.52
21:i4:795:A:H5''	21:i4:797:C:H5	1.72	0.52
21:i4:1522:A:O4'	31:P4:128:HIS:CG	2.61	0.52
23:B4:130:THR:HB	23:B4:180:ASP:OD1	2.09	0.52
24:D4:67:ARG:CG	29:K4:96:ARG:HH21	2.22	0.52
1:T5:71:GLY:N	21:i5:1562:C:OP1	2.42	0.52
2:U5:21:ARG:O	2:U5:115:THR:OG1	2.24	0.52
4:X5:5:ARG:NH2	21:i5:1159:G:OP2	2.35	0.52
9:g5:149:GLU:CD	9:g5:170:TRP:HB2	2.34	0.52
21:i5:291:G:N2	21:i5:293:C:OP2	2.36	0.52
21:i5:448:A:H5''	28:I5:25:ARG:HA	1.91	0.52
21:i5:455:A:C4'	21:i5:1736:G:H4'	2.38	0.52
15:O6:85:CYS:HB2	15:O6:90:ILE:HD11	1.91	0.52
16:W6:26:LEU:HD21	16:W6:60:LYS:HD3	1.90	0.52
16:W6:120:HIS:NE2	21:i6:805:U:O3'	2.42	0.52
18:Z6:68:ILE:HG22	18:Z6:109:TYR:HD2	1.73	0.52
21:i6:647:U:H2'	21:i6:648:A:C8	2.44	0.52
24:D6:103:GLU:O	24:D6:106:ARG:HG2	2.09	0.52
26:F6:127:ARG:CB	26:F6:128:ILE:CG1	2.86	0.52
31:P6:57:LEU:HD23	31:P6:61:ARG:HH21	1.75	0.52
36:k1:174:LEU:O	36:k1:177:MET:N	2.42	0.52
36:k2:92:LEU:HD23	36:k2:93:PRO:CD	2.40	0.52
36:k4:96:GLN:CD	36:k4:122:LYS:HB2	2.34	0.52
37:l3:123:ALA:HB3	37:l3:126:LYS:CG	2.39	0.52
37:l3:136:THR:HG23	37:l3:137:PHE:HA	1.90	0.52
37:l5:127:TYR:N	37:l5:168:GLY:CA	2.72	0.52
37:l5:183:PRO:C	37:l5:184:GLU:HG2	2.34	0.52
37:l6:123:ALA:HB3	37:l6:126:LYS:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:169:ARG:NH2	12:J1:170:PRO:O	2.43	0.52
16:W1:26:LEU:HD21	16:W1:60:LYS:HD3	1.90	0.52
19:b1:31:TYR:O	19:b1:48:SER:OG	2.19	0.52
20:e1:46:VAL:O	20:e1:46:VAL:HG13	2.08	0.52
21:i1:440:G:OP1	28:I1:24:LYS:NZ	2.41	0.52
21:i1:528:A:N1	21:i1:558:G:N1	2.58	0.52
21:i1:1644:C:OP1	32:Q1:143:LYS:N	2.38	0.52
21:i1:1865:C:H5'	21:i1:1866:A:C8	2.44	0.52
24:D1:60:GLY:HA3	24:D1:65:ARG:HB3	1.90	0.52
25:E1:151:ASP:O	25:E1:154:ILE:HG12	2.08	0.52
1:T2:111:LYS:HB3	1:T2:126:GLN:NE2	2.24	0.52
2:U2:56:MET:HE3	2:U2:57:PRO:HD2	1.90	0.52
5:a2:85:ARG:HG3	5:a2:86:ASN:H	1.74	0.52
5:a2:101:PHE:HD1	5:a2:102:ARG:NH1	2.08	0.52
11:G2:79:LYS:HB3	11:G2:86:PRO:HG3	1.90	0.52
13:M2:52:LEU:O	13:M2:78:LYS:HA	2.10	0.52
16:W2:65:LEU:O	16:W2:67:GLY:N	2.40	0.52
17:Y2:36:PRO:HG3	21:i2:570:C:H4'	1.91	0.52
18:Z2:68:ILE:HG22	18:Z2:109:TYR:HD2	1.74	0.52
21:i2:553:U:O4	21:i2:554:A:N6	2.43	0.52
21:i2:1621:U:O2	31:P2:117:GLY:O	2.27	0.52
21:i2:1700:C:O2	21:i2:1834:A:N6	2.42	0.52
21:i2:1741:U:H2'	21:i2:1742:C:O4'	2.10	0.52
22:A2:39:TYR:HB2	22:A2:50:ASN:HB3	1.91	0.52
2:U3:49:LYS:O	2:U3:51:LYS:N	2.36	0.52
7:d3:23:VAL:HG23	7:d3:38:MET:HE1	1.91	0.52
9:g3:149:GLU:CD	9:g3:170:TRP:HB2	2.34	0.52
12:J3:87:LEU:HG	12:J3:91:LYS:HE3	1.90	0.52
12:J3:169:ARG:NH2	12:J3:170:PRO:O	2.43	0.52
15:O3:14:VAL:HG21	15:O3:18:GLY:HA3	1.90	0.52
18:Z3:75:GLU:HG3	21:i6:193:C:H5'	1.92	0.52
21:i3:553:U:O4	21:i3:554:A:N6	2.43	0.52
21:i3:647:U:H2'	21:i3:648:A:C8	2.44	0.52
21:i3:969:U:OP1	21:i3:970:G:O2'	2.23	0.52
21:i3:1172:U:C5'	35:j3:10:MET:HE3	2.39	0.52
21:i3:1280:G:H1'	21:i3:1318:G:N2	2.23	0.52
29:K3:13:GLU:O	29:K3:17:LYS:N	2.42	0.52
33:R3:65:PRO:N	33:R3:73:LEU:HD21	2.25	0.52
7:d4:23:VAL:HG23	7:d4:38:MET:HE1	1.91	0.52
11:G4:206:ALA:HA	11:G4:209:TYR:CD2	2.43	0.52
12:J4:113:GLN:HA	12:J4:116:LYS:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B4:105:LEU:HD23	23:B4:110:MET:HE2	1.90	0.52
25:E4:177:THR:HA	25:E4:195:ILE:HB	1.91	0.52
9:g5:8:ARG:HB2	9:g5:309:VAL:HG23	1.91	0.52
15:O5:83:GLN:O	15:O5:86:LYS:HG2	2.09	0.52
21:i5:1204:A:O2'	21:i5:1700:C:OP2	2.19	0.52
21:i5:1865:C:H5'	21:i5:1866:A:C8	2.44	0.52
24:D5:103:GLU:O	24:D5:106:ARG:HG2	2.09	0.52
27:H5:108:SER:HB3	27:H5:113:LYS:HD3	1.90	0.52
8:f6:78:LYS:O	8:f6:78:LYS:HG3	2.08	0.52
12:J6:4:ALA:HB3	12:J6:5:ARG:HA	1.90	0.52
13:M6:106:CYS:SG	21:i6:1284:A:N6	2.82	0.52
17:Y6:85:ASN:HD21	25:E6:67:GLN:NE2	2.07	0.52
21:i6:528:A:C2	21:i6:558:G:C2	2.97	0.52
21:i6:537:C:O2'	21:i6:548:C:N3	2.41	0.52
21:i6:843:C:H2'	21:i6:844:U:H5'	1.91	0.52
21:i6:1352:G:H2'	21:i6:1353:A:C8	2.45	0.52
21:i6:1693:G:H21	21:i6:1834:A:H1'	1.73	0.52
22:A6:214:GLU:HB3	22:A6:215:GLN:OE1	2.10	0.52
32:Q6:134:GLY:HA3	32:Q6:141:TYR:H	1.74	0.52
36:k3:71:PHE:HZ	36:k3:167:ILE:HG21	1.73	0.52
36:k4:71:PHE:HZ	36:k4:167:ILE:CG2	2.23	0.52
36:k4:94:HIS:CG	36:k4:135:MET:HG2	2.44	0.52
37:l1:123:ALA:HB3	37:l1:126:LYS:CG	2.39	0.52
37:l4:117:ILE:CD1	37:l4:174:ILE:HG13	2.38	0.52
37:l4:123:ALA:HB3	37:l4:126:LYS:CG	2.39	0.52
2:U1:67:LYS:O	7:d1:44:ARG:NH2	2.43	0.52
4:X1:48:LYS:HB3	4:X1:99:GLU:OE2	2.09	0.52
13:M1:52:LEU:O	13:M1:78:LYS:HA	2.10	0.52
20:e1:43:VAL:HG11	21:i1:551:U:C4'	2.39	0.52
21:i1:551:U:H3'	21:i1:552:G:H8	1.74	0.52
21:i1:1300:U:O4	31:P1:51:ARG:HD2	1.98	0.52
21:i1:1544:C:H42	21:i1:1588:A:H8	1.57	0.52
24:D1:103:GLU:O	24:D1:106:ARG:HG2	2.09	0.52
24:D1:204:LEU:O	24:D1:206:ASP:N	2.36	0.52
25:E1:188:ASN:HA	25:E1:245:ARG:HH12	1.74	0.52
14:N2:84:LEU:HD21	14:N2:149:LEU:O	2.09	0.52
17:Y2:29:HIS:ND1	17:Y2:29:HIS:O	2.42	0.52
18:Z2:83:LEU:HD21	34:S2:55:ARG:NH2	2.21	0.52
21:i2:647:U:H2'	21:i2:648:A:C8	2.44	0.52
27:H2:68:GLN:O	27:H2:71:SER:OG	2.25	0.52
28:I2:123:ARG:NH1	15:O5:64:ALA:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:18:HIS:CG	2:U3:117:ALA:HB1	2.44	0.52
10:C3:277:HIS:O	10:C3:279:ARG:N	2.35	0.52
12:J3:144:ILE:HG21	21:i3:824:C:H1'	1.91	0.52
13:M3:52:LEU:O	13:M3:78:LYS:HA	2.10	0.52
17:Y3:99:LYS:O	17:Y3:101:LYS:NZ	2.41	0.52
18:Z3:82:SER:CB	21:i3:1598:G:H8	2.23	0.52
21:i3:316:G:C6	21:i3:335:G:C6	2.97	0.52
21:i3:974:C:H2'	21:i3:975:G:H8	1.74	0.52
21:i3:1322:G:H2'	21:i3:1323:U:O4'	2.08	0.52
21:i3:1708:C:C1'	37:l3:153:SER:HB2	2.39	0.52
26:F3:127:ARG:NE	26:F3:128:ILE:HG23	2.17	0.52
26:F3:133:THR:CG2	26:F3:135:ARG:HE	2.22	0.52
2:U4:56:MET:HE3	2:U4:57:PRO:HD2	1.91	0.52
12:J4:87:LEU:HG	12:J4:91:LYS:HE3	1.90	0.52
17:Y4:85:ASN:HD21	25:E4:67:GLN:NE2	2.08	0.52
21:i4:551:U:H3'	21:i4:552:G:H8	1.74	0.52
21:i4:735:C:OP2	21:i4:735:C:H4'	2.08	0.52
21:i4:1333:U:H4'	24:D4:141:LYS:HE3	1.89	0.52
21:i4:1741:U:H2'	21:i4:1742:C:O4'	2.10	0.52
11:G5:147:LEU:HD13	11:G5:148:SER:HB3	1.92	0.52
14:N5:84:LEU:HD21	14:N5:149:LEU:O	2.09	0.52
16:W5:26:LEU:HD21	16:W5:60:LYS:HD3	1.90	0.52
17:Y5:94:HIS:NE2	17:Y5:96:LEU:HD23	2.24	0.52
20:e5:31:ARG:NH1	21:i5:525:A:C3'	2.72	0.52
21:i5:309:G:H2'	21:i5:310:C:N1	2.24	0.52
21:i5:647:U:H2'	21:i5:648:A:C8	2.44	0.52
21:i5:1175:G:P	35:j5:21:ARG:HH12	2.33	0.52
21:i5:1419:C:H4'	21:i5:1420:G:OP1	2.09	0.52
21:i5:1452:A:N7	21:i5:1475:G:N1	2.57	0.52
21:i5:1544:C:H42	21:i5:1588:A:H8	1.57	0.52
21:i5:1617:G:N2	21:i5:1620:A:O5'	2.42	0.52
21:i5:1622:U:OP2	21:i5:1623:A:O2'	2.26	0.52
22:A5:104:THR:OG1	22:A5:107:THR:OG1	2.26	0.52
22:A5:128:ARG:HD3	22:A5:153:PRO:HD2	1.91	0.52
31:P5:108:LYS:CB	31:P5:109:PRO:HD2	2.10	0.52
4:X6:48:LYS:HB3	4:X6:99:GLU:OE2	2.10	0.52
10:C6:118:ALA:HB1	21:i6:1486:A:O2'	2.08	0.52
17:Y6:94:HIS:NE2	17:Y6:96:LEU:HD23	2.24	0.52
21:i6:448:A:H5''	28:I6:25:ARG:HA	1.91	0.52
21:i6:1354:G:H8	21:i6:1354:G:O5'	1.91	0.52
21:i6:1702:G:H8	21:i6:1702:G:O5'	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1741:U:H2'	21:i6:1742:C:O4'	2.10	0.52
21:i6:1777:G:C5	21:i6:1778:C:C4	2.97	0.52
26:F6:88:MET:HE3	26:F6:91:ARG:HH21	1.73	0.52
30:L6:128:VAL:HG12	30:L6:140:PHE:HB3	1.92	0.52
36:k1:10:ASN:ND2	36:k1:56:HIS:HE1	2.01	0.52
36:k3:39:TRP:NE1	36:k3:90:PHE:CE1	2.78	0.52
36:k4:86:HIS:CG	36:k4:141:HIS:HB3	2.45	0.52
37:l1:127:TYR:N	37:l1:168:GLY:CA	2.72	0.52
37:l2:133:GLY:C	37:l2:134:LEU:HG	2.35	0.52
37:l3:133:GLY:C	37:l3:134:LEU:HG	2.35	0.52
37:l4:127:TYR:N	37:l4:168:GLY:CA	2.72	0.52
37:l6:127:TYR:N	37:l6:168:GLY:CA	2.72	0.52
4:X1:140:ARG:NH2	4:X1:142:ARG:HH11	2.08	0.52
10:C1:194:ARG:N	10:C1:225:SER:OG	2.42	0.52
12:J1:4:ALA:H	12:J1:5:ARG:HB2	1.74	0.52
18:Z1:88:LEU:HB3	18:Z1:109:TYR:CZ	2.40	0.52
21:i1:867:G:C5'	30:L1:149:ALA:HB1	2.38	0.52
21:i1:1142:G:N2	21:i1:1144:A:H3'	2.25	0.52
22:A1:89:LYS:HZ1	33:R1:82:ASP:CB	2.17	0.52
23:B1:130:THR:HB	23:B1:180:ASP:OD1	2.09	0.52
28:I1:92:ARG:HG3	36:k6:9:GLU:OE2	2.09	0.52
30:L1:153:LYS:O	30:L1:153:LYS:HE2	2.09	0.52
31:P1:121:ILE:HB	34:S1:120:HIS:NE2	2.24	0.52
2:U2:18:HIS:CG	2:U2:117:ALA:HB1	2.44	0.52
4:X2:67:ARG:NH2	21:i2:617:G:N7	2.53	0.52
8:f2:93:HIS:CG	21:i2:1304:U:H5'	2.38	0.52
11:G2:87:ARG:NH2	21:i2:162:C:H5'	2.25	0.52
12:J2:169:ARG:NH2	12:J2:170:PRO:O	2.43	0.52
15:O2:83:GLN:O	15:O2:86:LYS:HG2	2.09	0.52
21:i2:1452:A:N7	21:i2:1475:G:N1	2.57	0.52
21:i2:1644:C:OP1	32:Q2:143:LYS:N	2.38	0.52
23:B2:130:THR:HB	23:B2:180:ASP:OD1	2.09	0.52
26:F2:128:ILE:N	26:F2:137:GLN:OE1	2.35	0.52
5:a3:101:PHE:HD1	5:a3:102:ARG:NH1	2.08	0.52
11:G3:147:LEU:HD13	11:G3:148:SER:HB3	1.92	0.52
17:Y3:36:PRO:HG3	21:i3:570:C:H4'	1.91	0.52
18:Z3:68:ILE:HG22	18:Z3:109:TYR:HD2	1.74	0.52
21:i3:843:C:H2'	21:i3:844:U:H5'	1.91	0.52
21:i3:1741:U:H2'	21:i3:1742:C:O4'	2.09	0.52
23:B3:175:GLU:O	23:B3:178:THR:OG1	2.19	0.52
25:E3:124:CYS:O	25:E3:160:ILE:N	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:H3:134:VAL:HG12	27:H3:137:SER:HB3	1.92	0.52
30:L3:89:ARG:HG2	30:L3:108:ASN:HB3	1.90	0.52
10:C4:68:ARG:NE	10:C4:277:HIS:HB2	2.23	0.52
12:J4:4:ALA:H	12:J4:5:ARG:HB2	1.75	0.52
12:J4:14:VAL:HG23	12:J4:48:PHE:HD1	1.74	0.52
21:i4:1656:G:H2'	21:i4:1657:G:C8	2.45	0.52
23:B4:27:LYS:HA	23:B4:51:ARG:NH2	2.25	0.52
25:E4:62:LYS:HA	25:E4:80:ILE:HG12	1.91	0.52
27:H4:134:VAL:HG12	27:H4:137:SER:HB3	1.92	0.52
28:I4:42:ARG:HG2	28:I4:59:ARG:HB2	1.91	0.52
2:U5:56:MET:HE3	2:U5:57:PRO:HD2	1.90	0.52
10:C5:194:ARG:N	10:C5:225:SER:OG	2.42	0.52
11:G5:24:LEU:O	11:G5:26:THR:N	2.42	0.52
11:G5:87:ARG:NH2	21:i5:162:C:H5'	2.25	0.52
12:J5:113:GLN:HA	12:J5:116:LYS:HG2	1.91	0.52
12:J5:169:ARG:NH2	12:J5:170:PRO:O	2.43	0.52
14:N5:129:TYR:HB3	14:N5:134:VAL:HG23	1.76	0.52
21:i5:1521:C:H42	34:S5:137:LYS:CE	2.21	0.52
25:E5:45:ILE:HA	25:E5:61:VAL:HG11	1.92	0.52
26:F5:43:GLU:HB3	26:F5:44:LYS:HA	1.91	0.52
33:R5:32:LYS:HZ1	33:R5:47:ARG:HH21	1.57	0.52
1:T6:111:LYS:HB3	1:T6:126:GLN:NE2	2.24	0.52
2:U6:97:ILE:HG23	2:U6:100:GLN:HB3	1.91	0.52
9:g6:109:LEU:HD11	9:g6:125:ARG:HE	1.74	0.52
9:g6:299:PHE:CD1	9:g6:309:VAL:HG12	2.44	0.52
11:G6:219:GLU:O	11:G6:223:LYS:N	2.38	0.52
12:J6:113:GLN:HA	12:J6:116:LYS:HG2	1.91	0.52
15:O6:83:GLN:O	15:O6:86:LYS:HG2	2.10	0.52
21:i6:309:G:H2'	21:i6:310:C:N1	2.24	0.52
21:i6:1352:G:H2'	21:i6:1353:A:H8	1.74	0.52
21:i6:1419:C:H4'	21:i6:1420:G:OP1	2.09	0.52
21:i6:1452:A:N7	21:i6:1475:G:N1	2.57	0.52
24:D6:135:GLU:OE2	24:D6:159:HIS:NE2	2.36	0.52
36:k4:146:GLY:HA2	36:k4:167:ILE:HD11	1.89	0.52
36:k5:95:GLN:H	36:k5:134:ILE:HA	1.75	0.52
37:l2:117:ILE:CD1	37:l2:174:ILE:HG13	2.38	0.52
37:l2:120:ILE:HG22	37:l2:121:PRO:N	2.25	0.52
37:l5:113:GLN:HB3	37:l5:114:LYS:HE3	1.91	0.52
37:l5:117:ILE:CD1	37:l5:174:ILE:HG13	2.38	0.52
37:l6:128:VAL:HG22	37:l6:167:GLN:HA	1.91	0.52
13:M1:106:CYS:SG	21:i1:1284:A:N6	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y1:36:PRO:HG3	21:i1:570:C:H4'	1.91	0.52
18:Z1:83:LEU:HD21	34:S1:55:ARG:NH2	2.21	0.52
21:i1:525:A:H61	21:i1:588:G:N2	2.07	0.52
21:i1:843:C:H2'	21:i1:844:U:H5'	1.91	0.52
21:i1:1452:A:N7	21:i1:1475:G:N1	2.57	0.52
21:i1:1521:C:H42	34:S1:137:LYS:CE	2.21	0.52
23:B1:105:LEU:HD23	23:B1:110:MET:HE2	1.90	0.52
24:D1:135:GLU:OE2	24:D1:159:HIS:NE2	2.36	0.52
25:E1:45:ILE:HA	25:E1:61:VAL:HG11	1.92	0.52
31:P1:41:GLN:NE2	31:P1:115:TYR:CD2	2.77	0.52
4:X2:48:LYS:HB3	4:X2:99:GLU:OE2	2.10	0.52
9:g2:27:PHE:HB3	9:g2:30:MET:HB3	1.92	0.52
21:i2:413:G:H2'	21:i2:414:A:H8	1.74	0.52
21:i2:538:U:H5''	21:i2:546:G:C4	2.44	0.52
21:i2:1236:G:C6	34:S2:137:LYS:HE3	2.33	0.52
21:i2:1751:C:N3	21:i2:1784:G:C6	2.77	0.52
25:E2:188:ASN:HA	25:E2:245:ARG:HH12	1.75	0.52
7:d3:10:HIS:HB3	21:i3:1513:C:H5''	1.92	0.52
9:g3:27:PHE:HB3	9:g3:30:MET:HB3	1.91	0.52
13:M3:106:CYS:SG	21:i3:1284:A:N6	2.82	0.52
14:N3:130:LYS:CE	14:N3:139:TRP:O	2.58	0.52
15:O3:83:GLN:O	15:O3:86:LYS:HG2	2.09	0.52
17:Y3:29:HIS:ND1	17:Y3:29:HIS:O	2.41	0.52
21:i3:49:C:O2	21:i3:477:G:N2	2.42	0.52
21:i3:309:G:H2'	21:i3:310:C:N1	2.24	0.52
21:i3:430:C:H2'	21:i3:431:G:C8	2.44	0.52
21:i3:867:G:C4'	30:L3:149:ALA:HA	2.38	0.52
21:i3:1300:U:N3	31:P3:51:ARG:CD	2.73	0.52
25:E3:177:THR:HA	25:E3:195:ILE:HB	1.91	0.52
12:J4:144:ILE:HG21	21:i4:824:C:H1'	1.91	0.52
21:i4:537:C:O2'	21:i4:548:C:N3	2.41	0.52
21:i4:1103:C:H2'	21:i4:1104:G:C8	2.44	0.52
21:i4:1708:C:O2'	37:I4:151:LYS:C	2.53	0.52
24:D4:103:GLU:O	24:D4:106:ARG:HG2	2.09	0.52
24:D4:124:ARG:O	24:D4:128:GLU:N	2.40	0.52
1:T5:35:ASP:CB	34:S5:46:ARG:NE	2.62	0.52
4:X5:140:ARG:NH2	4:X5:142:ARG:HH11	2.08	0.52
9:g5:147:HIS:CE1	9:g5:173:LEU:HB2	2.30	0.52
10:C5:63:VAL:N	10:C5:90:GLU:OE2	2.40	0.52
11:G5:216:ARG:HG3	11:G5:223:LYS:HZ2	1.73	0.52
12:J5:30:LYS:HD3	20:e5:42:PHE:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:42:LYS:N	14:N5:42:LYS:HD2	2.23	0.52
21:i5:406:U:H2'	21:i5:408:A:C8	2.45	0.52
21:i5:413:G:H2'	21:i5:414:A:H8	1.74	0.52
21:i5:430:C:H2'	21:i5:431:G:C8	2.44	0.52
21:i5:557:U:C3'	21:i5:558:G:C8	2.92	0.52
21:i5:1702:G:H2'	21:i5:1703:C:O4'	2.09	0.52
25:E5:188:ASN:HA	25:E5:245:ARG:HH12	1.75	0.52
29:K5:32:HIS:N	29:K5:41:PRO:HA	2.22	0.52
31:P5:107:ILE:HA	31:P5:111:MET:SD	2.49	0.52
9:g6:298:LEU:HB3	9:g6:310:TRP:HB2	1.92	0.52
21:i6:1112:U:H2'	21:i6:1113:A:H4'	1.90	0.52
21:i6:1359:U:H6	21:i6:1359:U:O5'	1.93	0.52
21:i6:1497:G:N7	29:K6:25:LYS:NZ	2.52	0.52
26:F6:127:ARG:HB3	26:F6:128:ILE:HG12	1.87	0.52
36:k1:22:ILE:HG12	36:k1:50:VAL:CG2	2.18	0.52
36:k2:95:GLN:CB	36:k2:134:ILE:HD11	2.30	0.52
36:k3:86:HIS:CD2	36:k3:142:ALA:N	2.77	0.52
37:l1:128:VAL:HG22	37:l1:167:GLN:HA	1.91	0.52
37:l1:167:GLN:O	37:l1:170:PHE:HZ	1.91	0.52
37:l3:174:ILE:HG23	37:l3:175:ILE:HG23	1.92	0.52
37:l4:113:GLN:HB3	37:l4:114:LYS:HE3	1.91	0.52
37:l4:133:GLY:C	37:l4:134:LEU:HG	2.35	0.52
2:U1:77:TRP:CD1	32:Q1:132:PHE:HB2	2.44	0.52
5:a1:101:PHE:HD1	5:a1:102:ARG:NH1	2.08	0.52
9:g1:27:PHE:HB3	9:g1:30:MET:HB3	1.92	0.52
9:g1:149:GLU:CD	9:g1:170:TRP:HB2	2.34	0.52
10:C1:253:PRO:HA	10:C1:256:TRP:CD2	2.45	0.52
15:O1:46:ASP:O	15:O1:49:GLY:N	2.39	0.52
17:Y1:29:HIS:ND1	17:Y1:29:HIS:O	2.42	0.52
19:b1:37:CYS:HA	19:b1:63:LEU:HD21	1.88	0.52
21:i1:331:C:H2'	21:i1:332:G:N7	2.24	0.52
21:i1:1656:G:H2'	21:i1:1657:G:C8	2.45	0.52
21:i1:1777:G:C5	21:i1:1778:C:C4	2.98	0.52
22:A1:104:THR:O	22:A1:107:THR:OG1	2.20	0.52
26:F1:133:THR:CG2	26:F1:135:ARG:HE	2.22	0.52
30:L1:121:GLN:CG	30:L1:153:LYS:CE	2.53	0.52
5:a2:101:PHE:CD2	5:a2:101:PHE:N	2.77	0.52
6:c2:26:GLN:OE1	21:i2:1219:C:O2'	2.23	0.52
12:J2:4:ALA:H	12:J2:5:ARG:HB2	1.75	0.52
15:O2:65:ASP:HB3	28:I4:123:ARG:NH1	2.18	0.52
21:i2:305:U:H5'	28:I2:41:ARG:NH2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1702:G:H8	21:i2:1702:G:O5'	1.93	0.52
21:i2:1777:G:C5	21:i2:1778:C:C4	2.97	0.52
22:A2:6:ASP:O	22:A2:9:GLN:NE2	2.34	0.52
14:N3:17:PRO:HG3	21:i3:1016:U:H6	1.75	0.52
2:U4:47:ASN:HA	2:U4:48:LEU:HB2	1.92	0.52
2:U4:60:THR:HG23	2:U4:81:GLN:HE22	1.74	0.52
7:d4:10:HIS:HB3	21:i4:1513:C:H5''	1.92	0.52
9:g4:8:ARG:HB2	9:g4:309:VAL:HG23	1.91	0.52
9:g4:149:GLU:CD	9:g4:170:TRP:HB2	2.34	0.52
11:G4:87:ARG:NH2	21:i4:162:C:H5'	2.25	0.52
13:M4:49:LEU:HD13	13:M4:128:PHE:HE2	1.75	0.52
20:e4:39:ASN:HB3	21:i4:552:G:P	2.49	0.52
21:i4:974:C:H2'	21:i4:975:G:H8	1.75	0.52
21:i4:1236:G:H5''	31:P4:133:ILE:HD12	0.54	0.52
21:i4:1777:G:C5	21:i4:1778:C:C4	2.97	0.52
2:U5:67:LYS:O	7:d5:44:ARG:NH2	2.42	0.52
7:d5:23:VAL:HG23	7:d5:38:MET:HE1	1.91	0.52
9:g5:109:LEU:HD11	9:g5:125:ARG:HE	1.74	0.52
21:i5:190:G:OP1	28:I5:148:LYS:CE	2.58	0.52
21:i5:1142:G:N2	21:i5:1144:A:H3'	2.25	0.52
21:i5:1333:U:H4'	24:D5:141:LYS:HE3	1.90	0.52
21:i5:1522:A:H8	31:P5:128:HIS:HB3	1.73	0.52
21:i5:1741:U:H2'	21:i5:1742:C:O4'	2.09	0.52
21:i5:1834:A:H2	21:i5:1837:G:H22	1.58	0.52
21:i5:1836:G:H4'	21:i5:1837:G:C4	2.45	0.52
26:F5:45:TYR:H	26:F5:46:ALA:HA	1.74	0.52
26:F5:88:MET:HE3	26:F5:91:ARG:HH21	1.73	0.52
27:H5:134:VAL:HG12	27:H5:137:SER:HB3	1.92	0.52
2:U6:67:LYS:O	7:d6:44:ARG:NH2	2.42	0.52
12:J6:144:ILE:HG21	21:i6:824:C:H1'	1.91	0.52
17:Y6:10:ARG:HB2	21:i6:833:C:N4	2.24	0.52
17:Y6:36:PRO:HG3	21:i6:570:C:H4'	1.92	0.52
21:i6:1656:G:H2'	21:i6:1657:G:C8	2.44	0.52
22:A6:58:LEU:HD21	22:A6:177:MET:HG2	1.92	0.52
23:B6:27:LYS:HA	23:B6:51:ARG:NH2	2.25	0.52
26:F6:45:TYR:H	26:F6:46:ALA:HA	1.75	0.52
29:K6:13:GLU:O	29:K6:17:LYS:N	2.42	0.52
36:k1:96:GLN:NE2	36:k1:122:LYS:HD3	2.25	0.52
36:k1:170:LEU:CG	36:k1:171:ASN:N	2.72	0.52
36:k5:96:GLN:NE2	36:k5:122:LYS:HD3	2.25	0.52
36:k6:170:LEU:CD1	36:k6:175:TRP:CZ3	2.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l3:120:ILE:HG23	37:l3:121:PRO:CD	2.40	0.52
37:l3:183:PRO:C	37:l3:184:GLU:HG2	2.34	0.52
37:l6:174:ILE:HG23	37:l6:175:ILE:HG23	1.92	0.52
3:V1:65:SER:O	3:V1:68:SER:OG	2.23	0.52
8:f1:93:HIS:CG	21:i1:1304:U:H5'	2.39	0.52
17:Y1:85:ASN:HD21	25:E1:67:GLN:NE2	2.08	0.52
21:i1:12:U:O4'	21:i1:1357:A:C4'	2.57	0.52
21:i1:49:C:O2	21:i1:477:G:N2	2.42	0.52
21:i1:305:U:H5'	28:I1:41:ARG:NH2	2.25	0.52
21:i1:406:U:H2'	21:i1:408:A:C8	2.45	0.52
21:i1:647:U:H2'	21:i1:648:A:C8	2.44	0.52
21:i1:1103:C:H2'	21:i1:1104:G:C8	2.44	0.52
21:i1:1776:G:N3	21:i1:1776:G:C3'	2.73	0.52
21:i1:1841:C:H5''	35:j1:2:ARG:HD2	1.91	0.52
22:A1:39:TYR:HB2	22:A1:50:ASN:HB3	1.91	0.52
24:D1:164:VAL:O	24:D1:168:VAL:HG22	2.10	0.52
1:T2:131:LEU:HD12	1:T2:134:ILE:HD11	1.91	0.52
7:d2:23:VAL:HG23	7:d2:38:MET:HE1	1.91	0.52
10:C2:194:ARG:N	10:C2:225:SER:OG	2.42	0.52
13:M2:27:ILE:HG21	29:K2:84:HIS:CD2	2.45	0.52
18:Z2:82:SER:CB	21:i2:1598:G:H8	2.23	0.52
21:i2:733:C:N1	27:H2:149:ASP:O	2.42	0.52
21:i2:1103:C:H2'	21:i2:1104:G:C8	2.43	0.52
21:i2:1142:G:N2	21:i2:1144:A:H3'	2.25	0.52
25:E2:184:THR:O	25:E2:224:ASN:ND2	2.42	0.52
26:F2:18:LYS:HG3	26:F2:46:ALA:HB3	1.90	0.52
2:U3:49:LYS:C	2:U3:51:LYS:H	2.18	0.52
10:C3:253:PRO:HA	10:C3:256:TRP:CD2	2.45	0.52
21:i3:551:U:H3'	21:i3:552:G:H8	1.74	0.52
21:i3:733:C:C5	27:H3:149:ASP:HB3	2.44	0.52
21:i3:1172:U:C5'	35:j3:14:LYS:HD3	2.37	0.52
1:T4:111:LYS:HB3	1:T4:126:GLN:NE2	2.24	0.52
11:G4:141:ILE:HG12	11:G4:144:LEU:HD11	1.92	0.52
14:N4:84:LEU:HD21	14:N4:149:LEU:O	2.09	0.52
21:i4:690:G:N3	21:i4:690:G:C3'	2.73	0.52
21:i4:737:G:H4'	21:i4:737:G:OP1	2.10	0.52
21:i4:1172:U:C4'	35:j4:14:LYS:HD3	2.39	0.52
22:A4:190:SER:O	22:A4:192:GLU:N	2.40	0.52
24:D4:164:VAL:O	24:D4:168:VAL:HG22	2.10	0.52
5:a5:100:ARG:CZ	5:a5:100:ARG:CB	2.88	0.52
13:M5:106:CYS:SG	21:i5:1284:A:N6	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:368:U:O2	36:k4:109:ALA:HA	2.09	0.52
26:F5:25:THR:HA	26:F5:107:ASN:HD21	1.75	0.52
32:Q5:4:LYS:NZ	32:Q5:99:TYR:CD1	2.72	0.52
32:Q5:134:GLY:HA3	32:Q5:141:TYR:H	1.75	0.52
33:R5:60:ARG:HG3	33:R5:60:ARG:NH1	2.21	0.52
33:R5:80:ARG:HH11	33:R5:80:ARG:CG	2.23	0.52
7:d6:11:PRO:HB3	7:d6:13:LYS:NZ	2.25	0.52
21:i6:980:A:O2'	21:i6:981:A:OP1	2.27	0.52
21:i6:1058:A:N6	21:i6:1830:U:OP1	2.38	0.52
21:i6:1170:A:N6	21:i6:1189:A:OP2	2.41	0.52
21:i6:1208:A:N1	21:i6:1209:A:C5	2.77	0.52
21:i6:1776:G:N3	21:i6:1776:G:C3'	2.73	0.52
22:A6:39:TYR:HB2	22:A6:50:ASN:HB3	1.91	0.52
24:D6:80:PRO:O	24:D6:82:GLY:N	2.43	0.52
24:D6:168:VAL:HG12	24:D6:189:MET:HA	1.92	0.52
36:k2:90:PHE:CD1	36:k2:90:PHE:C	2.87	0.52
36:k2:169:TYR:N	36:k2:169:TYR:HD2	2.08	0.52
36:k3:82:LEU:HD12	36:k3:169:TYR:C	2.34	0.52
36:k5:94:HIS:HA	36:k5:133:ALA:N	2.24	0.52
36:k5:170:LEU:CD2	36:k5:171:ASN:N	2.67	0.52
37:l1:113:GLN:HB3	37:l1:114:LYS:HE3	1.90	0.52
37:l1:120:ILE:HG23	37:l1:121:PRO:CD	2.40	0.52
37:l4:183:PRO:C	37:l4:184:GLU:HG2	2.34	0.52
1:T1:71:GLY:N	21:i1:1562:C:OP1	2.42	0.52
1:T1:111:LYS:HB3	1:T1:126:GLN:NE2	2.24	0.52
7:d1:10:HIS:HB3	21:i1:1513:C:H5''	1.92	0.52
7:d1:23:VAL:HG23	7:d1:38:MET:HE1	1.91	0.52
9:g1:299:PHE:CD1	9:g1:309:VAL:HG12	2.44	0.52
10:C1:238:LYS:NZ	21:i1:1356:G:OP1	2.42	0.52
11:G1:143:LYS:HD2	21:i1:1777:G:O5'	2.09	0.52
12:J1:61:LEU:HA	12:J1:70:ARG:HH12	1.75	0.52
15:O1:83:GLN:O	15:O1:86:LYS:HG2	2.09	0.52
16:W1:120:HIS:NE2	21:i1:805:U:O3'	2.42	0.52
21:i1:553:U:O4	21:i1:554:A:N6	2.43	0.52
21:i1:1058:A:N6	21:i1:1830:U:OP1	2.38	0.52
21:i1:1300:U:N3	31:P1:51:ARG:CD	2.73	0.52
21:i1:1521:C:C4	34:S1:137:LYS:CG	2.93	0.52
22:A1:138:SER:HG	22:A1:156:TYR:HD1	1.56	0.52
27:H1:87:PHE:HE2	27:H1:90:LYS:HD2	1.75	0.52
30:L1:77:VAL:HG12	30:L1:122:ILE:HG22	1.92	0.52
2:U2:67:LYS:O	7:d2:44:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G2:186:GLN:HA	21:i2:331:C:H42	1.67	0.52
13:M2:49:LEU:HD13	13:M2:128:PHE:HE2	1.75	0.52
13:M2:125:GLU:O	13:M2:129:LYS:HG3	2.10	0.52
21:i2:172:U:OP2	21:i2:315:C:O2'	2.28	0.52
21:i2:1419:C:H4'	21:i2:1420:G:OP1	2.09	0.52
21:i2:1656:G:H2'	21:i2:1657:G:C8	2.45	0.52
21:i2:1748:G:N2	21:i2:1749:G:H1'	2.25	0.52
21:i2:1836:G:H4'	21:i2:1837:G:C4	2.45	0.52
23:B2:27:LYS:HA	23:B2:51:ARG:NH2	2.25	0.52
33:R2:74:GLN:C	33:R2:76:GLU:N	2.68	0.52
4:X3:48:LYS:HB3	4:X3:99:GLU:OE2	2.09	0.52
13:M3:27:ILE:HG21	29:K3:84:HIS:CD2	2.45	0.52
14:N3:84:LEU:HD21	14:N3:149:LEU:O	2.09	0.52
16:W3:56:HIS:O	21:i3:918:U:O2'	2.24	0.52
17:Y3:10:ARG:HB2	21:i3:833:C:N4	2.24	0.52
19:b3:31:TYR:O	19:b3:48:SER:OG	2.19	0.52
21:i3:326:C:H4'	21:i3:327:G:H5'	1.92	0.52
21:i3:1044:G:O6	36:k3:20:SER:CB	2.57	0.52
21:i3:1300:U:O2'	31:P3:51:ARG:NH1	2.37	0.52
21:i3:1544:C:H42	21:i3:1588:A:H8	1.57	0.52
21:i3:1702:G:H2'	21:i3:1703:C:O4'	2.10	0.52
21:i3:1776:G:N3	21:i3:1776:G:C3'	2.73	0.52
23:B3:27:LYS:HA	23:B3:51:ARG:NH2	2.25	0.52
26:F3:40:ALA:HA	26:F3:44:LYS:HE3	1.92	0.52
33:R3:80:ARG:HH11	33:R3:80:ARG:CG	2.23	0.52
33:R3:86:PRO:O	33:R3:89:SER:OG	2.16	0.52
2:U4:18:HIS:CG	2:U4:117:ALA:HB1	2.44	0.52
8:f4:99:LYS:CB	21:i4:1285:G:N2	2.36	0.52
9:g4:299:PHE:CD1	9:g4:309:VAL:HG12	2.44	0.52
12:J4:164:PRO:CB	21:i4:561:A:H5''	2.40	0.52
21:i4:1521:C:C4	34:S4:137:LYS:CG	2.93	0.52
21:i4:1827:U:O2'	37:l4:154:CYS:SG	2.41	0.52
22:A4:210:ILE:HG13	22:A4:211:GLU:N	2.23	0.52
10:C5:253:PRO:HA	10:C5:256:TRP:CD2	2.45	0.52
12:J5:87:LEU:HG	12:J5:91:LYS:HE3	1.90	0.52
12:J5:144:ILE:HG21	21:i5:824:C:H1'	1.91	0.52
13:M5:27:ILE:HG21	29:K5:84:HIS:CD2	2.45	0.52
13:M5:52:LEU:O	13:M5:78:LYS:HA	2.10	0.52
15:O5:14:VAL:HG11	15:O5:17:LEU:C	2.35	0.52
15:O5:85:CYS:HB2	15:O5:90:ILE:HD11	1.91	0.52
16:W5:65:LEU:O	16:W5:67:GLY:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1112:U:H2'	21:i5:1113:A:H4'	1.90	0.52
21:i5:1656:G:H2'	21:i5:1657:G:C8	2.44	0.52
23:B5:130:THR:HB	23:B5:180:ASP:OD1	2.09	0.52
26:F5:127:ARG:CB	26:F5:128:ILE:CG1	2.86	0.52
13:M6:52:LEU:O	13:M6:78:LYS:HA	2.10	0.52
14:N6:133:ARG:NH1	30:L6:152:LYS:CB	2.25	0.52
15:O6:14:VAL:HG11	15:O6:17:LEU:C	2.35	0.52
18:Z6:82:SER:CB	21:i6:1598:G:H8	2.23	0.52
18:Z6:85:ARG:HH11	21:i6:1596:U:H5	0.62	0.52
21:i6:430:C:H2'	21:i6:431:G:C8	2.44	0.52
21:i6:1300:U:O2'	31:P6:51:ARG:NH1	2.37	0.52
21:i6:1376:A:P	22:A6:102:ARG:CD	2.98	0.52
25:E6:188:ASN:HA	25:E6:245:ARG:HH12	1.75	0.52
26:F6:157:GLY:HA2	26:F6:160:GLU:HG2	1.92	0.52
33:R6:27:ASP:O	33:R6:30:THR:OG1	2.24	0.52
36:k3:168:HIS:NE2	36:k3:174:LEU:HB2	2.24	0.52
36:k6:2:PHE:CD2	36:k6:168:HIS:ND1	2.77	0.52
37:l3:120:ILE:HG22	37:l3:121:PRO:N	2.25	0.52
2:U1:87:ARG:NH1	21:i1:1447:G:OP1	2.36	0.52
13:M1:27:ILE:HG23	29:K1:84:HIS:CG	2.41	0.52
13:M1:27:ILE:HG21	29:K1:84:HIS:CD2	2.45	0.52
18:Z1:88:LEU:HD22	18:Z1:109:TYR:CE2	2.45	0.52
26:F1:43:GLU:HB3	26:F1:44:LYS:HA	1.91	0.52
31:P1:12:PHE:HE2	21:i3:1764:G:C5'	2.23	0.52
5:a2:100:ARG:CZ	5:a2:100:ARG:CB	2.88	0.52
7:d2:10:HIS:HB3	21:i2:1513:C:H5''	1.92	0.52
11:G2:143:LYS:HD3	21:i2:1777:G:OP1	2.10	0.52
17:Y2:58:PHE:O	17:Y2:72:PHE:N	2.32	0.52
21:i2:49:C:O2	21:i2:477:G:N2	2.42	0.52
21:i2:309:G:H2'	21:i2:310:C:N1	2.24	0.52
21:i2:1781:A:N3	21:i2:1781:A:C2'	2.73	0.52
22:A2:211:GLU:HG3	33:R2:81:ARG:HH21	1.60	0.52
24:D2:80:PRO:O	24:D2:82:GLY:N	2.43	0.52
26:F2:133:THR:CG2	26:F2:135:ARG:HE	2.22	0.52
1:T3:111:LYS:HB3	1:T3:126:GLN:NE2	2.24	0.52
2:U3:97:ILE:HG23	2:U3:100:GLN:HB3	1.91	0.52
4:X3:140:ARG:NH2	4:X3:142:ARG:HH11	2.08	0.52
7:d3:11:PRO:HB3	7:d3:13:LYS:NZ	2.25	0.52
8:f3:103:LEU:HD22	13:M3:64:LEU:HD12	1.92	0.52
12:J3:61:LEU:HA	12:J3:70:ARG:HH12	1.75	0.52
13:M3:111:VAL:CG1	13:M3:114:TYR:HE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O3:85:CYS:HB2	15:O3:90:ILE:HD11	1.91	0.52
21:i3:448:A:H5''	28:I3:25:ARG:HA	1.91	0.52
21:i3:1777:G:C5	21:i3:1778:C:C4	2.97	0.52
27:H3:87:PHE:HE2	27:H3:90:LYS:HD2	1.75	0.52
28:I3:190:LEU:HB3	28:I3:195:LEU:HB2	1.90	0.52
4:X4:140:ARG:NH2	4:X4:142:ARG:HH11	2.08	0.52
5:a4:85:ARG:HG3	5:a4:86:ASN:H	1.74	0.52
17:Y4:113:ARG:HA	17:Y4:116:LYS:NZ	2.21	0.52
18:Z4:88:LEU:HD22	18:Z4:109:TYR:CE2	2.45	0.52
21:i4:691:G:H3'	21:i4:692:G:H5''	1.91	0.52
21:i4:1142:G:N2	21:i4:1144:A:H3'	2.25	0.52
21:i4:1419:C:H4'	21:i4:1420:G:OP1	2.09	0.52
24:D4:80:PRO:O	24:D4:82:GLY:N	2.43	0.52
29:K4:13:GLU:O	29:K4:17:LYS:N	2.42	0.52
32:Q4:34:VAL:N	32:Q4:37:ARG:O	2.25	0.52
8:f5:105:TYR:CD1	8:f5:131:PHE:CE1	2.98	0.52
14:N5:150:VAL:CG1	14:N5:151:ALA:N	2.73	0.52
17:Y5:85:ASN:HD21	25:E5:67:GLN:NE2	2.07	0.52
23:B5:27:LYS:HA	23:B5:51:ARG:NH2	2.25	0.52
26:F5:19:LEU:O	26:F5:21:GLY:N	2.43	0.52
2:U6:39:LEU:HD22	2:U6:102:THR:HG22	1.92	0.52
10:C6:253:PRO:HA	10:C6:256:TRP:CD2	2.45	0.52
13:M6:49:LEU:HD13	13:M6:128:PHE:HE2	1.75	0.52
13:M6:79:VAL:HG12	13:M6:80:ASP:H	1.75	0.52
20:e6:25:LYS:HD2	21:i6:554:A:H5''	1.91	0.52
21:i6:305:U:H5'	28:I6:41:ARG:NH2	2.24	0.52
21:i6:406:U:H2'	21:i6:408:A:C8	2.45	0.52
21:i6:829:C:OP1	25:E6:22:LYS:N	2.42	0.52
22:A6:89:LYS:NZ	33:R6:82:ASP:OD2	2.23	0.52
22:A6:138:SER:HG	22:A6:156:TYR:HD1	1.56	0.52
25:E6:45:ILE:HA	25:E6:61:VAL:HG11	1.92	0.52
26:F6:174:ALA:O	26:F6:178:ILE:HG12	2.10	0.52
27:H6:134:VAL:HG12	27:H6:137:SER:HB3	1.92	0.52
36:k1:94:HIS:CB	36:k1:133:ALA:O	2.54	0.52
37:l1:183:PRO:C	37:l1:184:GLU:HG2	2.34	0.52
37:l5:120:ILE:HG22	37:l5:121:PRO:N	2.25	0.52
7:d1:11:PRO:HB3	7:d1:13:LYS:HZ3	1.75	0.52
7:d1:11:PRO:HB3	7:d1:13:LYS:NZ	2.25	0.52
7:d1:32:ARG:HH22	21:i1:1659:U:H3'	1.75	0.52
10:C1:65:LYS:HA	10:C1:277:HIS:ND1	2.24	0.52
12:J1:113:GLN:HA	12:J1:116:LYS:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W1:11:LEU:HD21	16:W1:37:PHE:CE2	2.43	0.52
21:i1:197:U:H2'	21:i1:198:U:H4'	1.92	0.52
21:i1:1614:A:H62	31:P1:40:ARG:HH12	1.58	0.52
22:A1:58:LEU:HD21	22:A1:177:MET:HG2	1.92	0.52
22:A1:104:THR:HG1	22:A1:107:THR:HG1	1.53	0.52
30:L1:89:ARG:HG2	30:L1:108:ASN:HB3	1.91	0.52
31:P1:121:ILE:CG2	31:P1:122:THR:N	2.73	0.52
11:G2:216:ARG:HG3	11:G2:223:LYS:HZ2	1.75	0.52
11:G2:218:LYS:O	11:G2:221:LYS:NZ	2.26	0.52
13:M2:106:CYS:SG	21:i2:1284:A:N6	2.83	0.52
17:Y2:94:HIS:NE2	17:Y2:96:LEU:HD23	2.24	0.52
21:i2:1521:C:C4	34:S2:137:LYS:CG	2.93	0.52
22:A2:198:MET:SD	22:A2:199:PRO:HD2	2.50	0.52
27:H2:87:PHE:HE2	27:H2:90:LYS:HD2	1.75	0.52
33:R2:27:ASP:O	33:R2:30:THR:OG1	2.24	0.52
2:U3:67:LYS:O	7:d3:44:ARG:NH2	2.42	0.52
21:i3:305:U:H5'	28:I3:41:ARG:NH2	2.24	0.52
21:i3:1183:A:OP1	35:j3:15:ARG:NH2	2.43	0.52
21:i3:1419:C:H4'	21:i3:1420:G:OP1	2.09	0.52
21:i3:1452:A:N7	21:i3:1475:G:N1	2.57	0.52
21:i3:1521:C:C4	34:S3:137:LYS:CG	2.93	0.52
21:i3:1781:A:N3	21:i3:1781:A:C2'	2.73	0.52
23:B3:130:THR:HB	23:B3:180:ASP:OD1	2.09	0.52
24:D3:124:ARG:O	24:D3:128:GLU:N	2.40	0.52
26:F3:43:GLU:HB3	26:F3:44:LYS:HA	1.91	0.52
31:P3:96:VAL:CG2	31:P3:116:LEU:HD13	1.87	0.52
4:X4:9:THR:O	4:X4:11:ARG:N	2.43	0.52
5:a4:100:ARG:CZ	5:a4:100:ARG:CB	2.88	0.52
5:a4:100:ARG:CG	5:a4:100:ARG:NH1	2.73	0.52
5:a4:101:PHE:CD2	5:a4:101:PHE:N	2.77	0.52
6:c4:37:ASP:O	6:c4:39:SER:N	2.43	0.52
10:C4:68:ARG:NE	10:C4:277:HIS:CB	2.73	0.52
12:J4:27:GLN:O	12:J4:30:LYS:HG2	2.10	0.52
13:M4:27:ILE:HG21	29:K4:84:HIS:CD2	2.45	0.52
13:M4:106:CYS:SG	21:i4:1284:A:N6	2.83	0.52
16:W4:72:CYS:SG	16:W4:73:GLY:N	2.73	0.52
21:i4:49:C:O2	21:i4:477:G:N2	2.42	0.52
21:i4:1163:C:H2'	21:i4:1164:G:H8	1.75	0.52
21:i4:1781:A:N3	21:i4:1781:A:C2'	2.73	0.52
26:F4:157:GLY:HA2	26:F4:160:GLU:HG2	1.92	0.52
27:H4:87:PHE:HE2	27:H4:90:LYS:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U5:97:ILE:HG23	2:U5:100:GLN:HB3	1.91	0.52
4:X5:67:ARG:NH2	21:i5:617:G:N7	2.53	0.52
9:g5:298:LEU:HB3	9:g5:310:TRP:HB2	1.92	0.52
24:D5:80:PRO:O	24:D5:82:GLY:N	2.43	0.52
2:U6:47:ASN:HA	2:U6:48:LEU:HB2	1.91	0.52
9:g6:27:PHE:HB3	9:g6:30:MET:HB3	1.92	0.52
9:g6:105:THR:OG1	9:g6:126:ASP:OD2	2.28	0.52
12:J6:14:VAL:HG23	12:J6:48:PHE:HD1	1.74	0.52
14:N6:25:TRP:CZ3	19:b6:84:HIS:CE1	2.98	0.52
21:i6:974:C:H2'	21:i6:975:G:H8	1.75	0.52
21:i6:1736:G:H2'	21:i6:1737:G:C8	2.45	0.52
25:E6:177:THR:HA	25:E6:195:ILE:HB	1.91	0.52
36:k1:9:GLU:C	36:k1:56:HIS:HE1	2.18	0.52
36:k1:39:TRP:NE1	36:k1:90:PHE:HZ	2.01	0.52
36:k3:79:TYR:HD1	36:k3:131:ILE:CG2	2.23	0.52
36:k3:93:PRO:O	36:k3:133:ALA:HB3	2.10	0.52
36:k4:96:GLN:NE2	36:k4:122:LYS:HD3	2.25	0.52
37:l1:152:PHE:HE1	37:l1:173:ASP:OD1	1.92	0.52
37:l2:120:ILE:HG23	37:l2:121:PRO:CD	2.40	0.52
37:l2:127:TYR:N	37:l2:168:GLY:CA	2.72	0.52
37:l4:120:ILE:HG23	37:l4:121:PRO:CD	2.40	0.52
37:l5:133:GLY:C	37:l5:134:LEU:HG	2.35	0.52
37:l6:133:GLY:C	37:l6:134:LEU:HG	2.35	0.52
1:T1:49:ASP:OD1	1:T1:50:GLU:N	2.44	0.51
17:Y1:113:ARG:HD3	8:f2:111:ASN:OD1	2.10	0.51
19:b1:36:LYS:HD3	19:b1:43:ILE:HG21	1.92	0.51
21:i1:314:U:O2	21:i1:337:C:C2	2.63	0.51
21:i1:448:A:H5''	28:I1:25:ARG:HA	1.91	0.51
21:i1:748:C:OP1	21:i1:796:G:N1	2.35	0.51
26:F1:25:THR:HA	26:F1:107:ASN:HD21	1.75	0.51
26:F1:40:ALA:HA	26:F1:44:LYS:HE3	1.92	0.51
26:F1:174:ALA:O	26:F1:178:ILE:HG12	2.10	0.51
4:X2:5:ARG:NH2	21:i2:1159:G:OP2	2.35	0.51
4:X2:9:THR:O	4:X2:11:ARG:N	2.43	0.51
14:N2:15:ALA:HB1	19:b2:26:GLN:HG2	1.93	0.51
21:i2:326:C:H4'	21:i2:327:G:H5'	1.92	0.51
21:i2:695:C:H5	21:i2:736:C:O2	1.93	0.51
32:Q2:134:GLY:HA3	32:Q2:141:TYR:H	1.74	0.51
4:X3:5:ARG:NH2	21:i3:1159:G:OP2	2.34	0.51
4:X3:9:THR:O	4:X3:11:ARG:N	2.44	0.51
7:d3:32:ARG:HH22	21:i3:1659:U:H3'	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J3:164:PRO:HG3	21:i3:561:A:O3'	2.11	0.51
17:Y3:85:ASN:HD21	25:E3:67:GLN:NE2	2.07	0.51
21:i3:12:U:H1'	21:i3:1357:A:C1'	2.39	0.51
21:i3:525:A:H61	21:i3:588:G:N2	2.07	0.51
21:i3:748:C:OP1	21:i3:796:G:N1	2.35	0.51
22:A3:128:ARG:HD3	22:A3:153:PRO:HD2	1.91	0.51
24:D3:103:GLU:O	24:D3:106:ARG:HG2	2.09	0.51
26:F3:115:ALA:O	26:F3:119:SER:OG	2.19	0.51
32:Q3:134:GLY:HA3	32:Q3:141:TYR:H	1.74	0.51
7:d4:32:ARG:HH22	21:i4:1659:U:H3'	1.75	0.51
9:g4:259:TRP:HE1	9:g4:266:ILE:HG13	1.76	0.51
10:C4:65:LYS:HA	10:C4:277:HIS:ND1	2.24	0.51
11:G4:189:ARG:NH1	21:i4:330:G:C5	2.79	0.51
13:M4:49:LEU:HD22	13:M4:75:ASN:HB2	1.92	0.51
14:N4:17:PRO:HG3	21:i4:1016:U:H6	1.75	0.51
17:Y4:36:PRO:HG3	21:i4:570:C:H4'	1.91	0.51
21:i4:406:U:H2'	21:i4:408:A:C8	2.45	0.51
21:i4:794:A:N6	21:i4:796:G:O6	2.44	0.51
21:i4:1644:C:OP1	32:Q4:143:LYS:N	2.38	0.51
26:F4:40:ALA:HA	26:F4:44:LYS:HE3	1.92	0.51
30:L4:152:LYS:HD2	30:L4:152:LYS:N	2.23	0.51
33:R4:27:ASP:O	33:R4:30:THR:OG1	2.24	0.51
34:S4:26:ILE:O	34:S4:30:ILE:HG12	2.11	0.51
7:d5:11:PRO:HB3	7:d5:13:LYS:NZ	2.25	0.51
17:Y5:10:ARG:HB2	21:i5:833:C:N4	2.24	0.51
20:e5:28:LYS:HG3	21:i5:524:U:O2'	2.10	0.51
21:i5:183:G:P	21:i5:184:G:H5'	2.50	0.51
21:i5:528:A:N3	21:i5:558:G:N2	2.58	0.51
21:i5:1170:A:N6	21:i5:1189:A:OP2	2.42	0.51
21:i5:1776:G:N3	21:i5:1776:G:C3'	2.73	0.51
21:i5:1854:U:H2'	21:i5:1855:G:C8	2.45	0.51
24:D5:164:VAL:O	24:D5:168:VAL:HG22	2.10	0.51
8:f6:93:HIS:CG	21:i6:1304:U:H5'	2.38	0.51
9:g6:8:ARG:HB2	9:g6:309:VAL:HG23	1.91	0.51
11:G6:87:ARG:NH2	21:i6:162:C:H5'	2.25	0.51
21:i6:1865:C:H5'	21:i6:1866:A:C8	2.44	0.51
22:A6:210:ILE:CG1	22:A6:211:GLU:N	2.74	0.51
24:D6:164:VAL:O	24:D6:168:VAL:HG22	2.10	0.51
26:F6:43:GLU:HB3	26:F6:44:LYS:HA	1.91	0.51
26:F6:133:THR:CG2	26:F6:135:ARG:HE	2.22	0.51
30:L6:89:ARG:HG2	30:L6:108:ASN:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R6:80:ARG:HH11	33:R6:80:ARG:CG	2.23	0.51
36:k2:96:GLN:NE2	36:k2:122:LYS:HD3	2.25	0.51
37:l6:113:GLN:HB3	37:l6:114:LYS:HE3	1.91	0.51
4:X1:5:ARG:NH2	21:i1:1159:G:OP2	2.35	0.51
4:X1:70:VAL:O	4:X1:83:ALA:N	2.36	0.51
6:c1:37:ASP:O	6:c1:39:SER:N	2.43	0.51
9:g1:109:LEU:HD11	9:g1:125:ARG:HE	1.74	0.51
11:G1:60:GLY:O	21:i1:156:G:N2	2.44	0.51
15:O1:14:VAL:HG11	15:O1:17:LEU:C	2.35	0.51
21:i1:1220:A:N3	21:i1:1677:U:O2'	2.40	0.51
21:i1:1749:G:C2	21:i1:1786:U:O2	2.63	0.51
28:I1:200:ARG:HG2	21:i6:970:G:H21	1.71	0.51
9:g2:259:TRP:HE1	9:g2:266:ILE:HG13	1.76	0.51
12:J2:61:LEU:HA	12:J2:70:ARG:HH12	1.75	0.51
14:N2:17:PRO:HG3	21:i2:1016:U:H6	1.75	0.51
21:i2:291:G:N2	21:i2:293:C:OP2	2.36	0.51
21:i2:368:U:H3	36:k5:109:ALA:HB1	1.71	0.51
21:i2:1236:G:H4'	31:P2:133:ILE:HB	1.91	0.51
24:D2:164:VAL:O	24:D2:168:VAL:HG22	2.09	0.51
26:F2:45:TYR:H	26:F2:46:ALA:HA	1.75	0.51
31:P2:57:LEU:HD23	31:P2:61:ARG:HH21	1.74	0.51
5:a3:101:PHE:CD2	5:a3:101:PHE:N	2.77	0.51
6:c3:26:GLN:OE1	21:i3:1219:C:O2'	2.23	0.51
9:g3:259:TRP:HE1	9:g3:266:ILE:HG13	1.76	0.51
9:g3:298:LEU:HB3	9:g3:310:TRP:HB2	1.92	0.51
10:C3:210:PRO:HD3	10:C3:236:PHE:HE2	1.75	0.51
12:J3:113:GLN:HA	12:J3:116:LYS:HG2	1.91	0.51
13:M3:125:GLU:O	13:M3:129:LYS:HG3	2.10	0.51
20:e3:25:LYS:HE2	21:i3:554:A:OP2	2.00	0.51
20:e3:48:THR:CA	20:e3:49:PHE:HB2	2.31	0.51
21:i3:315:C:C2	21:i3:336:A:C2	2.92	0.51
21:i3:1377:U:C3'	22:A3:102:ARG:NH2	2.73	0.51
22:A3:58:LEU:HD21	22:A3:177:MET:HG2	1.92	0.51
26:F3:45:TYR:H	26:F3:46:ALA:HA	1.74	0.51
27:H3:53:VAL:HG11	27:H3:172:THR:HA	1.92	0.51
2:U4:67:LYS:O	7:d4:44:ARG:NH2	2.42	0.51
9:g4:105:THR:OG1	9:g4:126:ASP:OD2	2.28	0.51
10:C4:68:ARG:NH2	10:C4:276:THR:OG1	2.40	0.51
10:C4:210:PRO:HD3	10:C4:236:PHE:HE2	1.75	0.51
11:G4:3:LEU:HD13	11:G4:5:ILE:HG13	1.90	0.51
12:J4:173:VAL:HG21	21:i4:561:A:C5	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:14:VAL:HG11	15:O4:17:LEU:C	2.35	0.51
16:W4:11:LEU:HD21	16:W4:37:PHE:CE2	2.43	0.51
17:Y4:111:LYS:NZ	21:i4:56:G:OP1	2.41	0.51
21:i4:197:U:H2'	21:i4:198:U:H4'	1.92	0.51
21:i4:448:A:H5''	28:I4:25:ARG:HA	1.91	0.51
21:i4:1751:C:H2'	21:i4:1752:C:OP1	2.10	0.51
25:E4:45:ILE:HA	25:E4:61:VAL:HG11	1.91	0.51
25:E4:124:CYS:O	25:E4:160:ILE:N	2.29	0.51
27:H4:68:GLN:O	27:H4:71:SER:OG	2.25	0.51
6:c5:37:ASP:O	6:c5:39:SER:N	2.43	0.51
13:M5:28:HIS:NE2	13:M5:116:LYS:HE3	2.22	0.51
13:M5:49:LEU:HD13	13:M5:128:PHE:HE2	1.75	0.51
18:Z5:88:LEU:HD22	18:Z5:109:TYR:CE2	2.45	0.51
21:i5:49:C:O2	21:i5:477:G:N2	2.42	0.51
21:i5:537:C:O2'	21:i5:548:C:N3	2.41	0.51
22:A5:138:SER:HG	22:A5:156:TYR:HD1	1.57	0.51
30:L5:77:VAL:HG12	30:L5:122:ILE:HG22	1.93	0.51
2:U6:60:THR:HG23	2:U6:81:GLN:HE22	1.74	0.51
8:f6:105:TYR:CD1	8:f6:131:PHE:CE1	2.98	0.51
11:G6:141:ILE:HG12	11:G6:144:LEU:HD11	1.92	0.51
12:J6:169:ARG:NH2	12:J6:170:PRO:O	2.42	0.51
13:M6:49:LEU:HD22	13:M6:75:ASN:HB2	1.92	0.51
14:N6:17:PRO:HG3	21:i6:1016:U:H6	1.75	0.51
21:i6:964:A:N1	21:i6:1065:G:O2'	2.36	0.51
21:i6:1142:G:N2	21:i6:1144:A:H3'	2.25	0.51
21:i6:1521:C:C4	34:S6:137:LYS:CG	2.93	0.51
21:i6:1522:A:H8	31:P6:128:HIS:HB3	1.74	0.51
27:H6:87:PHE:HE2	27:H6:90:LYS:HD2	1.75	0.51
34:S6:26:ILE:O	34:S6:30:ILE:HG12	2.11	0.51
36:k3:33:PHE:CE1	36:k3:92:LEU:CG	2.92	0.51
36:k4:90:PHE:CD1	36:k4:90:PHE:C	2.88	0.51
37:l3:127:TYR:N	37:l3:168:GLY:CA	2.72	0.51
37:l3:128:VAL:HG22	37:l3:167:GLN:HA	1.91	0.51
37:l3:174:ILE:HG23	37:l3:175:ILE:N	2.26	0.51
12:J1:78:LEU:HD21	12:J1:97:ILE:HD11	1.93	0.51
21:i1:969:U:O5'	21:i1:971:G:C4'	2.58	0.51
21:i1:1163:C:H2'	21:i1:1164:G:H8	1.75	0.51
21:i1:1419:C:H4'	21:i1:1420:G:OP1	2.09	0.51
22:A1:214:GLU:HB3	22:A1:215:GLN:OE1	2.10	0.51
27:H1:53:VAL:HG11	27:H1:172:THR:HA	1.93	0.51
29:K1:13:GLU:O	29:K1:17:LYS:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P1:57:LEU:HD23	31:P1:61:ARG:HH21	1.75	0.51
33:R1:80:ARG:HH11	33:R1:80:ARG:CG	2.23	0.51
34:S1:26:ILE:O	34:S1:30:ILE:HG12	2.11	0.51
2:U2:60:THR:HG23	2:U2:81:GLN:HE22	1.74	0.51
7:d2:11:PRO:HB3	7:d2:13:LYS:NZ	2.25	0.51
10:C2:253:PRO:HA	10:C2:256:TRP:CD2	2.45	0.51
11:G2:60:GLY:O	21:i2:156:G:N2	2.44	0.51
12:J2:164:PRO:HG3	21:i2:561:A:O3'	2.11	0.51
13:M2:79:VAL:HG12	13:M2:80:ASP:H	1.75	0.51
15:O2:14:VAL:HG11	15:O2:17:LEU:C	2.35	0.51
15:O2:111:GLY:HA2	15:O2:114:SER:HB3	1.92	0.51
21:i2:733:C:N3	27:H2:149:ASP:O	2.43	0.51
21:i2:1170:A:H5'	21:i2:1172:U:H1'	1.93	0.51
22:A2:210:ILE:HG13	22:A2:211:GLU:N	2.22	0.51
22:A2:214:GLU:CD	33:R2:84:TYR:CG	2.89	0.51
24:D2:204:LEU:O	24:D2:206:ASP:N	2.36	0.51
25:E2:45:ILE:HA	25:E2:61:VAL:HG11	1.92	0.51
8:f3:105:TYR:CD1	8:f3:131:PHE:CE1	2.98	0.51
12:J3:14:VAL:HG23	12:J3:48:PHE:HD1	1.74	0.51
14:N3:15:ALA:HB1	19:b3:26:GLN:HG2	1.93	0.51
18:Z3:85:ARG:CZ	21:i3:1596:U:C5	2.89	0.51
18:Z3:111:ARG:HH12	18:Z3:114:LYS:HG2	1.75	0.51
21:i3:1377:U:P	22:A3:102:ARG:NE	2.52	0.51
26:F3:182:LYS:HZ2	21:i6:201:C:P	2.34	0.51
28:I3:206:LYS:O	36:k1:12:SER:HA	2.10	0.51
30:L3:128:VAL:HG12	30:L3:140:PHE:HB3	1.92	0.51
10:C4:69:LEU:HD22	10:C4:74:LYS:HD2	1.91	0.51
12:J4:169:ARG:NH2	12:J4:170:PRO:O	2.43	0.51
34:S4:105:ASN:HD21	21:i5:1761:U:C5'	2.21	0.51
4:X5:48:LYS:HB3	4:X5:99:GLU:OE2	2.09	0.51
5:a5:101:PHE:HD1	5:a5:102:ARG:NH1	2.08	0.51
16:W5:120:HIS:NE2	21:i5:805:U:O3'	2.42	0.51
25:E5:177:THR:HA	25:E5:195:ILE:HB	1.91	0.51
27:H5:87:PHE:HE2	27:H5:90:LYS:HD2	1.75	0.51
29:K5:94:LEU:O	29:K5:95:ARG:HB2	2.08	0.51
30:L5:128:VAL:HG12	30:L5:140:PHE:HB3	1.92	0.51
2:U6:49:LYS:C	2:U6:51:LYS:H	2.18	0.51
4:X6:140:ARG:NH2	4:X6:142:ARG:HH11	2.08	0.51
6:c6:22:GLY:O	26:F6:127:ARG:NE	2.43	0.51
6:c6:26:GLN:OE1	21:i6:1219:C:O2'	2.23	0.51
7:d6:23:VAL:HG23	7:d6:38:MET:HE1	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C6:125:LYS:HE3	21:i6:1357:A:OP1	2.10	0.51
12:J6:27:GLN:O	12:J6:30:LYS:HG2	2.10	0.51
12:J6:61:LEU:HA	12:J6:70:ARG:HH12	1.75	0.51
13:M6:27:ILE:HG21	29:K6:84:HIS:CD2	2.45	0.51
21:i6:689:U:O4	27:H6:122:LEU:HD11	2.11	0.51
22:A6:198:MET:SD	22:A6:199:PRO:HD2	2.50	0.51
36:k1:171:ASN:C	36:k1:176:HIS:NE2	2.69	0.51
36:k3:169:TYR:CE1	36:k3:172:ASP:HB3	2.46	0.51
36:k4:83:ARG:HG3	36:k4:175:TRP:CE3	2.45	0.51
36:k5:43:ILE:HD11	36:k5:88:TYR:CE2	2.45	0.51
37:l2:123:ALA:HB3	37:l2:126:LYS:CG	2.40	0.51
37:l2:183:PRO:C	37:l2:184:GLU:HG2	2.34	0.51
37:l5:178:ILE:CG1	37:l5:190:ILE:HG21	2.34	0.51
4:X1:9:THR:O	4:X1:11:ARG:N	2.43	0.51
10:C1:68:ARG:NE	10:C1:277:HIS:CB	2.73	0.51
13:M1:125:GLU:O	13:M1:129:LYS:HG3	2.10	0.51
14:N1:15:ALA:HB1	19:b1:26:GLN:HG2	1.93	0.51
16:W1:37:PHE:O	16:W1:40:VAL:HG22	2.11	0.51
18:Z1:111:ARG:HH12	18:Z1:114:LYS:HG2	1.75	0.51
21:i1:39:A:N6	21:i1:515:G:H1'	2.26	0.51
21:i1:196:C:O2'	21:i1:203:G:N2	2.43	0.51
21:i1:526:A:H8	21:i1:526:A:O5'	1.93	0.51
21:i1:1736:G:H2'	21:i1:1737:G:C8	2.46	0.51
22:A1:198:MET:SD	22:A1:199:PRO:HD2	2.50	0.51
28:I1:141:ARG:HH12	26:F6:191:LYS:HD3	1.75	0.51
28:I1:200:ARG:NH2	21:i6:970:G:P	2.80	0.51
1:T2:49:ASP:OD1	1:T2:50:GLU:N	2.44	0.51
9:g2:23:THR:HG21	9:g2:292:SER:HA	1.93	0.51
9:g2:298:LEU:HB3	9:g2:310:TRP:HB2	1.92	0.51
17:Y2:85:ASN:HD21	25:E2:67:GLN:NE2	2.07	0.51
21:i2:197:U:H2'	21:i2:198:U:H4'	1.92	0.51
21:i2:1854:U:H2'	21:i2:1855:G:C8	2.45	0.51
26:F2:127:ARG:CB	26:F2:128:ILE:CG1	2.86	0.51
30:L2:128:VAL:HG12	30:L2:140:PHE:HB3	1.92	0.51
1:T3:71:GLY:N	21:i3:1562:C:OP1	2.42	0.51
1:T3:131:LEU:HD12	1:T3:134:ILE:HD11	1.91	0.51
9:g3:23:THR:HG21	9:g3:292:SER:HA	1.93	0.51
12:J3:27:GLN:O	12:J3:30:LYS:HG2	2.10	0.51
13:M3:49:LEU:HD22	13:M3:75:ASN:HB2	1.92	0.51
13:M3:79:VAL:HG12	13:M3:80:ASP:H	1.75	0.51
21:i3:187:G:C4	21:i3:213:G:N2	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:525:A:N6	21:i3:587:A:N1	2.57	0.51
21:i3:1069:U:H5''	36:k3:16:GLN:O	2.11	0.51
22:A3:205:ARG:CB	22:A3:210:ILE:HG21	2.39	0.51
26:F3:15:PRO:HG3	32:Q3:57:LEU:HA	1.93	0.51
30:L3:77:VAL:HG12	30:L3:122:ILE:HG22	1.92	0.51
2:U4:39:LEU:HD22	2:U4:102:THR:HG22	1.92	0.51
5:a4:99:PRO:HB3	21:i4:1868:U:O4	2.11	0.51
6:c4:47:LYS:HZ1	26:F4:145:ARG:HG2	1.74	0.51
14:N4:133:ARG:HH21	30:L4:154:GLN:CB	2.22	0.51
15:O4:83:GLN:O	15:O4:86:LYS:HG2	2.09	0.51
21:i4:326:C:H4'	21:i4:327:G:H5'	1.92	0.51
21:i4:1412:C:O2'	21:i4:1413:G:N7	2.34	0.51
24:D4:168:VAL:HG12	24:D4:189:MET:HA	1.92	0.51
25:E4:188:ASN:HA	25:E4:245:ARG:HH12	1.75	0.51
26:F4:43:GLU:HB3	26:F4:44:LYS:HA	1.91	0.51
26:F4:45:TYR:H	26:F4:46:ALA:HA	1.75	0.51
26:F4:174:ALA:O	26:F4:178:ILE:HG12	2.10	0.51
10:C5:65:LYS:HA	10:C5:277:HIS:ND1	2.24	0.51
11:G5:60:GLY:O	21:i5:156:G:N2	2.44	0.51
14:N5:15:ALA:HB1	19:b5:26:GLN:HG2	1.92	0.51
21:i5:197:U:H2'	21:i5:198:U:H4'	1.92	0.51
21:i5:553:U:O4	21:i5:554:A:N6	2.43	0.51
22:A5:58:LEU:HD21	22:A5:177:MET:HG2	1.92	0.51
22:A5:198:MET:SD	22:A5:199:PRO:HD2	2.50	0.51
22:A5:214:GLU:CD	33:R5:84:TYR:CG	2.89	0.51
26:F5:133:THR:CG2	26:F5:135:ARG:HE	2.22	0.51
31:P5:15:PHE:CD2	31:P5:109:PRO:O	2.63	0.51
1:T6:77:LYS:HE2	21:i6:1588:A:H5''	1.92	0.51
5:a6:101:PHE:HD1	5:a6:102:ARG:NH1	2.08	0.51
7:d6:22:ARG:NH2	7:d6:36:LEU:O	2.44	0.51
9:g6:30:MET:HE3	9:g6:42:MET:HE1	1.93	0.51
9:g6:220:ASP:HB2	9:g6:225:LYS:N	2.22	0.51
11:G6:216:ARG:HG3	11:G6:223:LYS:HZ2	1.75	0.51
16:W6:37:PHE:O	16:W6:40:VAL:HG22	2.11	0.51
21:i6:326:C:H4'	21:i6:327:G:H5'	1.92	0.51
21:i6:553:U:O4	21:i6:554:A:N6	2.43	0.51
21:i6:1522:A:N6	31:P6:131:PRO:CB	2.74	0.51
21:i6:1836:G:H4'	21:i6:1837:G:C4	2.45	0.51
36:k5:171:ASN:C	36:k5:176:HIS:NE2	2.69	0.51
36:k6:118:SER:HB2	36:k6:119:PRO:CD	2.34	0.51
37:l3:158:VAL:HG23	37:l3:164:ILE:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l4:158:VAL:HG23	37:l4:164:ILE:HD13	1.93	0.51
37:l6:120:ILE:HG22	37:l6:121:PRO:N	2.25	0.51
37:l6:126:LYS:HA	37:l6:168:GLY:CA	2.40	0.51
12:J1:144:ILE:HG21	21:i1:824:C:H1'	1.91	0.51
13:M1:79:VAL:HG12	13:M1:80:ASP:H	1.75	0.51
14:N1:17:PRO:HG3	21:i1:1016:U:H6	1.75	0.51
21:i1:186:C:C2'	21:i1:187:G:C8	2.72	0.51
21:i1:1102:G:H2'	21:i1:1103:C:H6	1.76	0.51
21:i1:1854:U:H2'	21:i1:1855:G:C8	2.45	0.51
23:B1:27:LYS:HA	23:B1:51:ARG:NH2	2.25	0.51
26:F1:19:LEU:O	26:F1:21:GLY:N	2.43	0.51
30:L1:13:GLN:NE2	30:L1:14:PRO:HD2	2.26	0.51
4:X2:140:ARG:NH2	4:X2:142:ARG:HH11	2.08	0.51
8:f2:105:TYR:CD1	8:f2:131:PHE:CE1	2.98	0.51
9:g2:105:THR:OG1	9:g2:126:ASP:OD2	2.28	0.51
11:G2:147:LEU:HD13	11:G2:148:SER:HB3	1.92	0.51
15:O2:12:GLU:N	15:O2:14:VAL:HA	2.26	0.51
21:i2:794:A:N6	21:i2:796:G:O6	2.43	0.51
21:i2:1163:C:H2'	21:i2:1164:G:H8	1.75	0.51
21:i2:1376:A:O5'	22:A2:102:ARG:HD3	2.11	0.51
22:A2:128:ARG:HD3	22:A2:153:PRO:HD2	1.91	0.51
22:A2:205:ARG:CB	22:A2:210:ILE:HG21	2.39	0.51
24:D2:103:GLU:O	24:D2:106:ARG:HG2	2.09	0.51
26:F2:185:SER:O	26:F2:191:LYS:NZ	2.32	0.51
31:P2:121:ILE:CG2	31:P2:122:THR:N	2.73	0.51
33:R2:80:ARG:HH11	33:R2:80:ARG:CG	2.23	0.51
1:T3:77:LYS:HE2	21:i3:1588:A:H5''	1.93	0.51
1:T3:81:GLY:O	1:T3:93:SER:N	2.44	0.51
2:U3:39:LEU:HD22	2:U3:102:THR:HG22	1.92	0.51
6:c3:37:ASP:O	6:c3:39:SER:N	2.43	0.51
10:C3:65:LYS:HG2	10:C3:279:ARG:NE	2.26	0.51
11:G3:60:GLY:O	21:i3:156:G:N2	2.44	0.51
11:G3:87:ARG:NH2	21:i3:162:C:H5'	2.25	0.51
21:i3:76:U:O2'	21:i3:78:C:OP2	2.25	0.51
21:i3:1142:G:N2	21:i3:1144:A:H3'	2.25	0.51
21:i3:1163:C:H2'	21:i3:1164:G:H8	1.75	0.51
24:D3:80:PRO:O	24:D3:82:GLY:N	2.43	0.51
25:E3:184:THR:O	25:E3:224:ASN:ND2	2.42	0.51
29:K3:94:LEU:O	29:K3:95:ARG:HB2	2.08	0.51
31:P3:57:LEU:HD23	31:P3:61:ARG:HH21	1.75	0.51
1:T4:77:LYS:HE2	21:i4:1588:A:H5''	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:122:ILE:O	14:N4:126:ALA:N	2.33	0.51
17:Y4:58:PHE:O	17:Y4:72:PHE:N	2.32	0.51
18:Z4:82:SER:CB	21:i4:1598:G:H8	2.23	0.51
21:i4:350:C:O2'	21:i4:383:G:N2	2.43	0.51
21:i4:528:A:N1	21:i4:558:G:N1	2.59	0.51
21:i4:1300:U:O2'	31:P4:51:ARG:NH1	2.39	0.51
21:i4:1621:U:H4'	31:P4:115:TYR:HH	1.72	0.51
22:A4:58:LEU:HD21	22:A4:177:MET:HG2	1.92	0.51
26:F4:19:LEU:O	26:F4:21:GLY:N	2.43	0.51
26:F4:25:THR:HA	26:F4:107:ASN:HD21	1.75	0.51
31:P4:57:LEU:HD23	31:P4:61:ARG:HH21	1.74	0.51
13:M5:79:VAL:HG12	13:M5:80:ASP:H	1.75	0.51
15:O5:111:GLY:HA2	15:O5:114:SER:HB3	1.93	0.51
18:Z5:82:SER:CB	21:i5:1598:G:H8	2.23	0.51
21:i5:318:A:N3	21:i5:333:G:N2	2.58	0.51
21:i5:1852:C:P	35:j5:5:TRP:HD1	2.33	0.51
21:i5:1853:C:C5	35:j5:5:TRP:HZ2	2.24	0.51
27:H5:53:VAL:HG11	27:H5:172:THR:HA	1.93	0.51
31:P5:121:ILE:CG2	31:P5:122:THR:N	2.73	0.51
4:X6:9:THR:O	4:X6:11:ARG:N	2.44	0.51
7:d6:10:HIS:HB3	21:i6:1513:C:H5''	1.92	0.51
9:g6:23:THR:HG21	9:g6:292:SER:HA	1.93	0.51
10:C6:65:LYS:HA	10:C6:277:HIS:ND1	2.24	0.51
21:i6:1781:A:N3	21:i6:1781:A:C2'	2.73	0.51
30:L6:77:VAL:HG12	30:L6:122:ILE:HG22	1.93	0.51
36:k1:145:VAL:HB	36:k1:167:ILE:HB	1.93	0.51
36:k3:85:LEU:CD2	36:k3:133:ALA:HB2	2.31	0.51
37:l1:133:GLY:C	37:l1:134:LEU:HG	2.35	0.51
37:l2:126:LYS:HA	37:l2:168:GLY:CA	2.40	0.51
37:l2:126:LYS:CA	37:l2:168:GLY:HA2	2.40	0.51
37:l2:174:ILE:HG23	37:l2:175:ILE:N	2.25	0.51
37:l3:126:LYS:CA	37:l3:168:GLY:HA2	2.40	0.51
37:l5:174:ILE:HG23	37:l5:175:ILE:HG23	1.92	0.51
1:T1:97:LYS:NZ	21:i1:1570:G:N7	2.42	0.51
5:a1:101:PHE:CD2	5:a1:101:PHE:N	2.77	0.51
10:C1:65:LYS:HG2	10:C1:279:ARG:NE	2.26	0.51
10:C1:69:LEU:HD22	10:C1:74:LYS:HD2	1.91	0.51
15:O1:12:GLU:N	15:O1:14:VAL:HA	2.26	0.51
21:i1:184:G:OP2	21:i1:185:G:OP2	2.28	0.51
21:i1:794:A:N6	21:i1:796:G:O6	2.44	0.51
21:i1:1170:A:H5'	21:i1:1172:U:H1'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D1:80:PRO:O	24:D1:82:GLY:N	2.43	0.51
25:E1:211:LYS:HE2	25:E1:215:GLY:HA2	1.93	0.51
5:a2:79:ILE:HG13	5:a2:84:VAL:HG23	1.93	0.51
10:C2:65:LYS:HG2	10:C2:279:ARG:NE	2.25	0.51
11:G2:141:ILE:HG12	11:G2:144:LEU:HD11	1.92	0.51
11:G2:153:VAL:C	11:G2:155:GLN:N	2.69	0.51
12:J2:14:VAL:HG23	12:J2:48:PHE:HD1	1.74	0.51
12:J2:78:LEU:HD21	12:J2:97:ILE:HD11	1.93	0.51
14:N2:133:ARG:CD	30:L2:152:LYS:CD	2.88	0.51
21:i2:332:G:H2'	21:i2:333:G:H8	1.75	0.51
24:D2:168:VAL:HG12	24:D2:189:MET:HA	1.93	0.51
26:F2:19:LEU:O	26:F2:21:GLY:N	2.43	0.51
26:F2:157:GLY:HA2	26:F2:160:GLU:HG2	1.92	0.51
27:H2:53:VAL:HG11	27:H2:172:THR:HA	1.93	0.51
1:T3:49:ASP:OD1	1:T3:50:GLU:N	2.44	0.51
8:f3:130:VAL:HG13	21:i3:1310:U:C5'	2.20	0.51
11:G3:189:ARG:NH1	21:i3:330:G:O6	2.42	0.51
13:M3:49:LEU:HD13	13:M3:128:PHE:HE2	1.75	0.51
19:b3:34:ASP:HA	19:b3:45:THR:HA	1.91	0.51
21:i3:39:A:N6	21:i3:515:G:H1'	2.26	0.51
21:i3:197:U:H2'	21:i3:198:U:H4'	1.92	0.51
21:i3:314:U:O2	21:i3:337:C:C2	2.64	0.51
21:i3:368:U:O2	36:k1:109:ALA:HA	2.10	0.51
21:i3:1656:G:H2'	21:i3:1657:G:C8	2.45	0.51
21:i3:1854:U:H2'	21:i3:1855:G:C8	2.45	0.51
24:D3:164:VAL:O	24:D3:168:VAL:HG22	2.10	0.51
24:D3:168:VAL:HG12	24:D3:189:MET:HA	1.93	0.51
31:P3:121:ILE:CG2	31:P3:122:THR:N	2.74	0.51
2:U4:49:LYS:C	2:U4:51:LYS:H	2.18	0.51
2:U4:97:ILE:HG23	2:U4:100:GLN:HB3	1.91	0.51
8:f4:105:TYR:CD1	8:f4:131:PHE:CE1	2.98	0.51
9:g4:68:ASP:OD1	9:g4:69:VAL:N	2.44	0.51
10:C4:277:HIS:O	10:C4:279:ARG:N	2.36	0.51
18:Z4:83:LEU:HD21	34:S4:55:ARG:NH2	2.21	0.51
21:i4:13:C:H5'	21:i4:1356:G:H1'	1.93	0.51
21:i4:689:U:H2'	21:i4:689:U:O2	2.10	0.51
26:F4:127:ARG:NE	26:F4:128:ILE:HG23	2.17	0.51
5:a5:99:PRO:HB3	21:i5:1868:U:O4	2.11	0.51
8:f5:103:LEU:HD22	13:M5:64:LEU:HD12	1.92	0.51
9:g5:27:PHE:HB3	9:g5:30:MET:HB3	1.92	0.51
9:g5:68:ASP:OD1	9:g5:69:VAL:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g5:299:PHE:CD1	9:g5:309:VAL:HG12	2.44	0.51
11:G5:141:ILE:HG12	11:G5:144:LEU:HD11	1.92	0.51
15:O5:12:GLU:N	15:O5:14:VAL:HA	2.26	0.51
21:i5:60:A:C2	21:i5:318:A:H1'	2.46	0.51
26:F5:157:GLY:HA2	26:F5:160:GLU:HG2	1.93	0.51
30:L5:13:GLN:NE2	30:L5:14:PRO:HD2	2.26	0.51
34:S5:50:ILE:HD11	34:S5:67:VAL:HG23	1.91	0.51
2:U6:28:ASN:HD21	2:U6:30:LYS:HB3	1.73	0.51
5:a6:100:ARG:CG	5:a6:100:ARG:NH1	2.73	0.51
9:g6:259:TRP:HE1	9:g6:266:ILE:HG13	1.75	0.51
14:N6:15:ALA:HB1	19:b6:26:GLN:HG2	1.93	0.51
21:i6:628:A:C6	24:D6:179:GLN:NE2	2.78	0.51
21:i6:1828:C:OP1	37:l6:125:LYS:NZ	2.44	0.51
22:A6:211:GLU:HB2	33:R6:81:ARG:NH2	2.19	0.51
23:B6:102:GLY:HA2	23:B6:215:VAL:HG13	1.93	0.51
26:F6:25:THR:HA	26:F6:107:ASN:HD21	1.75	0.51
26:F6:40:ALA:HA	26:F6:44:LYS:HE3	1.92	0.51
31:P6:121:ILE:CG2	31:P6:122:THR:N	2.73	0.51
36:k3:171:ASN:C	36:k3:176:HIS:NE2	2.69	0.51
2:U1:39:LEU:HD22	2:U1:102:THR:HG22	1.92	0.51
4:X1:11:ARG:NH1	21:i1:399:C:H4'	2.26	0.51
10:C1:64:THR:HA	10:C1:279:ARG:HD2	1.93	0.51
12:J1:27:GLN:O	12:J1:30:LYS:HG2	2.10	0.51
13:M1:49:LEU:HD13	13:M1:128:PHE:HE2	1.75	0.51
21:i1:690:G:N3	21:i1:690:G:C3'	2.73	0.51
26:F1:182:LYS:O	26:F1:184:SER:N	2.40	0.51
2:U2:47:ASN:HA	2:U2:48:LEU:HB2	1.91	0.51
10:C2:69:LEU:HD22	10:C2:74:LYS:HD2	1.91	0.51
12:J2:40:LYS:HG3	20:e2:34:ARG:HH12	1.76	0.51
18:Z2:111:ARG:HH12	18:Z2:114:LYS:HG2	1.75	0.51
20:e2:31:ARG:HH11	21:i2:525:A:H4'	1.75	0.51
21:i2:187:G:N1	21:i2:213:G:N3	2.57	0.51
21:i2:1300:U:C5	31:P2:51:ARG:CD	2.85	0.51
21:i2:1378:A:O5'	22:A2:105:PRO:CG	2.59	0.51
21:i2:1521:C:H42	34:S2:137:LYS:CE	2.21	0.51
22:A2:58:LEU:HD21	22:A2:177:MET:HG2	1.92	0.51
33:R2:74:GLN:O	33:R2:78:ARG:HB2	2.10	0.51
12:J3:40:LYS:HG3	20:e3:34:ARG:HH12	1.76	0.51
13:M3:36:ARG:HH12	21:i3:1310:U:H5	1.20	0.51
17:Y3:111:LYS:NZ	21:i3:56:G:OP1	2.41	0.51
21:i3:291:G:N2	21:i3:293:C:OP2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:436:G:OP1	21:i3:471:G:O2'	2.29	0.51
21:i3:867:G:H5''	30:L3:150:GLY:N	2.25	0.51
21:i3:1678:A:H2'	21:i3:1679:A:C8	2.46	0.51
21:i3:1736:G:H2'	21:i3:1737:G:C8	2.46	0.51
21:i3:1751:C:H6	21:i3:1751:C:H3'	1.76	0.51
22:A3:198:MET:SD	22:A3:199:PRO:HD2	2.50	0.51
26:F3:128:ILE:HD11	26:F3:204:ARG:OXT	2.11	0.51
28:I3:79:ILE:HG21	28:I3:170:LYS:HZ2	1.75	0.51
5:a4:79:ILE:HG13	5:a4:84:VAL:HG23	1.93	0.51
7:d4:11:PRO:HB3	7:d4:13:LYS:NZ	2.25	0.51
10:C4:64:THR:HA	10:C4:279:ARG:HD2	1.93	0.51
10:C4:253:PRO:HA	10:C4:256:TRP:CD2	2.45	0.51
13:M4:92:CYS:SG	13:M4:103:VAL:HG22	2.51	0.51
14:N4:141:TYR:CE1	14:N4:146:ALA:HB1	2.44	0.51
20:e4:24:LYS:HG3	20:e4:25:LYS:HG3	1.91	0.51
21:i4:39:A:N6	21:i4:515:G:H1'	2.26	0.51
21:i4:1059:G:O2'	37:l4:157:SER:CB	2.56	0.51
21:i4:1172:U:C3'	35:j4:14:LYS:HD3	2.40	0.51
26:F4:115:ALA:O	26:F4:119:SER:OG	2.19	0.51
8:f5:130:VAL:HG13	21:i5:1310:U:C5'	2.20	0.51
10:C5:64:THR:HA	10:C5:279:ARG:HD2	1.93	0.51
12:J5:27:GLN:O	12:J5:30:LYS:HG2	2.10	0.51
13:M5:49:LEU:HD22	13:M5:75:ASN:HB2	1.92	0.51
21:i5:551:U:H3'	21:i5:552:G:H8	1.74	0.51
21:i5:1828:C:C4'	37:l5:154:CYS:CA	2.74	0.51
10:C6:65:LYS:CA	10:C6:277:HIS:HE1	2.24	0.51
13:M6:125:GLU:O	13:M6:129:LYS:HG3	2.10	0.51
18:Z6:85:ARG:CZ	21:i6:1596:U:C5	2.90	0.51
18:Z6:88:LEU:HB3	18:Z6:109:TYR:CZ	2.41	0.51
21:i6:1102:G:H2'	21:i6:1103:C:H6	1.76	0.51
21:i6:1163:C:H2'	21:i6:1164:G:H8	1.75	0.51
21:i6:1780:G:C4	21:i6:1781:A:H8	2.29	0.51
33:R6:21:TYR:HH	33:R6:72:LYS:HE3	1.76	0.51
36:k2:82:LEU:HD23	36:k2:142:ALA:HB3	1.91	0.51
36:k3:96:GLN:NE2	36:k3:122:LYS:HD3	2.25	0.51
36:k4:170:LEU:CD1	36:k4:175:TRP:CH2	2.93	0.51
36:k5:17:LEU:HB2	36:k5:50:VAL:CG2	2.33	0.51
36:k6:35:GLY:HA3	36:k6:91:ILE:HA	1.93	0.51
36:k6:94:HIS:HA	36:k6:133:ALA:C	2.25	0.51
36:k6:96:GLN:NE2	36:k6:122:LYS:HD3	2.25	0.51
37:l1:174:ILE:HG23	37:l1:175:ILE:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l2:158:VAL:HG23	37:l2:164:ILE:HD13	1.93	0.51
37:l4:174:ILE:HG23	37:l4:175:ILE:N	2.26	0.51
37:l5:174:ILE:HG23	37:l5:175:ILE:N	2.25	0.51
5:a1:99:PRO:HB3	21:i1:1868:U:O4	2.11	0.51
6:c1:21:THR:O	6:c1:29:GLN:NE2	2.44	0.51
9:g1:298:LEU:HB3	9:g1:310:TRP:HB2	1.92	0.51
21:i1:61:A:N1	21:i1:334:C:H2'	2.25	0.51
21:i1:326:C:H4'	21:i1:327:G:H5'	1.92	0.51
21:i1:1678:A:H2'	21:i1:1679:A:C8	2.46	0.51
22:A1:145:ILE:HG22	22:A1:159:ILE:HB	1.93	0.51
26:F1:157:GLY:HA2	26:F1:160:GLU:HG2	1.92	0.51
28:I1:160:SER:CB	21:i6:955:A:O2'	2.51	0.51
28:I1:161:LEU:CG	21:i6:969:U:H5	2.20	0.51
30:L1:128:VAL:HG12	30:L1:140:PHE:HB3	1.92	0.51
31:P1:41:GLN:OE1	31:P1:84:ILE:CG1	2.59	0.51
31:P1:133:ILE:HG22	31:P1:134:GLY:N	2.22	0.51
1:T2:81:GLY:O	1:T2:93:SER:N	2.44	0.51
10:C2:64:THR:HA	10:C2:279:ARG:HD2	1.92	0.51
10:C2:210:PRO:HD3	10:C2:236:PHE:HE2	1.75	0.51
12:J2:113:GLN:HA	12:J2:116:LYS:HG2	1.91	0.51
13:M2:49:LEU:HD22	13:M2:75:ASN:HB2	1.92	0.51
15:O2:63:LYS:CE	28:I4:163:GLU:HG2	2.38	0.51
15:O2:85:CYS:HB2	15:O2:90:ILE:HD11	1.91	0.51
16:W2:37:PHE:O	16:W2:40:VAL:HG22	2.11	0.51
20:e2:25:LYS:HE2	21:i2:554:A:C5'	2.40	0.51
21:i2:57:U:O2'	21:i2:499:G:N3	2.44	0.51
21:i2:1736:G:H2'	21:i2:1737:G:C8	2.46	0.51
30:L2:77:VAL:HG12	30:L2:122:ILE:HG22	1.93	0.51
10:C3:69:LEU:HD22	10:C3:74:LYS:HD2	1.91	0.51
14:N3:141:TYR:CE1	14:N3:146:ALA:HB1	2.43	0.51
15:O3:14:VAL:HG11	15:O3:17:LEU:C	2.35	0.51
17:Y3:58:PHE:HZ	25:E3:56:LEU:HD11	1.76	0.51
21:i3:690:G:N3	21:i3:690:G:C5'	2.73	0.51
21:i3:1828:C:P	37:l3:125:LYS:HZ3	2.32	0.51
22:A3:214:GLU:CD	33:R3:84:TYR:CG	2.89	0.51
4:X4:60:LYS:HB3	4:X4:62:PRO:HD2	1.93	0.51
11:G4:147:LEU:HD13	11:G4:148:SER:HB3	1.91	0.51
12:J4:40:LYS:HG3	20:e4:34:ARG:HH12	1.76	0.51
14:N4:15:ALA:HB1	19:b4:26:GLN:HG2	1.93	0.51
14:N4:34:LYS:HG2	14:N4:74:ILE:HD11	1.91	0.51
14:N4:99:ARG:HG2	14:N4:115:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:17:LEU:CD2	15:O4:18:GLY:H	2.22	0.51
15:O4:74:ALA:HB1	15:O4:115:ALA:HB2	1.93	0.51
15:O4:111:GLY:HA2	15:O4:114:SER:HB3	1.93	0.51
16:W4:78:ARG:HH12	21:i4:864:A:H4'	1.76	0.51
22:A4:39:TYR:HB2	22:A4:50:ASN:HB3	1.91	0.51
22:A4:104:THR:O	22:A4:107:THR:OG1	2.20	0.51
26:F4:123:GLU:OE2	26:F4:197:GLU:HA	2.11	0.51
26:F4:128:ILE:HD11	26:F4:204:ARG:OXT	2.11	0.51
34:S4:50:ILE:HD11	34:S4:67:VAL:HG23	1.91	0.51
9:g5:30:MET:HE3	9:g5:42:MET:HE1	1.93	0.51
10:C5:65:LYS:HG2	10:C5:279:ARG:NE	2.26	0.51
10:C5:68:ARG:NE	10:C5:277:HIS:CB	2.73	0.51
21:i5:843:C:H2'	21:i5:844:U:H5'	1.91	0.51
21:i5:1144:A:OP1	21:i5:1355:C:C5	2.63	0.51
21:i5:1521:C:C4	34:S5:137:LYS:CG	2.93	0.51
21:i5:1736:G:H2'	21:i5:1737:G:C8	2.46	0.51
4:X6:11:ARG:NH1	21:i6:399:C:H4'	2.26	0.51
4:X6:37:LYS:HE3	21:i6:1811:C:OP1	2.10	0.51
7:d6:11:PRO:HB3	7:d6:13:LYS:HZ3	1.76	0.51
10:C6:65:LYS:HG2	10:C6:279:ARG:NE	2.26	0.51
10:C6:69:LEU:HD22	10:C6:74:LYS:HD2	1.91	0.51
11:G6:141:ILE:CG1	11:G6:144:LEU:CG	2.78	0.51
14:N6:141:TYR:CE1	14:N6:146:ALA:HB1	2.43	0.51
21:i6:39:A:N6	21:i6:515:G:H1'	2.26	0.51
21:i6:1854:U:H2'	21:i6:1855:G:C8	2.45	0.51
22:A6:190:SER:O	22:A6:192:GLU:N	2.40	0.51
36:k2:110:ASN:OD1	36:k2:166:ASN:HB2	2.10	0.51
36:k2:171:ASN:C	36:k2:176:HIS:NE2	2.69	0.51
37:l5:120:ILE:HG23	37:l5:121:PRO:CD	2.40	0.51
37:l5:126:LYS:HD2	37:l5:167:GLN:HB3	1.93	0.51
4:X1:60:LYS:HB3	4:X1:62:PRO:HD2	1.93	0.51
9:g1:105:THR:OG1	9:g1:126:ASP:OD2	2.28	0.51
11:G1:87:ARG:NH2	21:i1:162:C:H5'	2.25	0.51
11:G1:147:LEU:HD13	11:G1:148:SER:HB3	1.92	0.51
14:N1:23:PRO:O	14:N1:25:TRP:N	2.44	0.51
23:B1:102:GLY:HA2	23:B1:215:VAL:HG13	1.93	0.51
34:S1:50:ILE:HD11	34:S1:67:VAL:HG23	1.91	0.51
2:U2:20:ILE:N	2:U2:91:LEU:O	2.28	0.51
4:X2:11:ARG:NH1	21:i2:399:C:H4'	2.26	0.51
8:f2:103:LEU:HD22	13:M2:64:LEU:HD12	1.92	0.51
9:g2:30:MET:HE3	9:g2:42:MET:HE1	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y2:50:THR:O	17:Y2:51:THR:OG1	2.26	0.51
21:i2:406:U:H2'	21:i2:408:A:C8	2.45	0.51
21:i2:528:A:C2	21:i2:558:G:C2	2.99	0.51
21:i2:974:C:H2'	21:i2:975:G:H8	1.75	0.51
21:i2:1750:C:O2	21:i2:1784:G:N1	2.43	0.51
21:i2:1758:G:O2'	21:i2:1774:C:N4	2.44	0.51
21:i2:1763:G:H5'	34:S5:109:GLU:OE1	2.10	0.51
23:B2:102:GLY:HA2	23:B2:215:VAL:HG13	1.93	0.51
26:F2:128:ILE:HD11	26:F2:204:ARG:OXT	2.11	0.51
5:a3:79:ILE:HG13	5:a3:84:VAL:HG23	1.93	0.51
11:G3:50:VAL:HG21	11:G3:111:LEU:HD21	1.93	0.51
14:N3:99:ARG:HG2	14:N3:115:LEU:HD11	1.93	0.51
21:i3:406:U:H2'	21:i3:408:A:C8	2.45	0.51
21:i3:868:G:O2'	21:i3:869:A:OP1	2.28	0.51
21:i3:1208:A:N6	21:i3:1209:A:N6	2.59	0.51
21:i3:1236:G:C6	34:S3:137:LYS:HE3	2.33	0.51
21:i3:1708:C:H1'	37:I3:153:SER:HB2	1.92	0.51
21:i3:1776:G:N3	21:i3:1776:G:C5'	2.73	0.51
25:E3:188:ASN:HA	25:E3:245:ARG:HH12	1.75	0.51
9:g4:30:MET:HE3	9:g4:42:MET:HE1	1.93	0.51
11:G4:50:VAL:HG21	11:G4:111:LEU:HD21	1.93	0.51
18:Z4:111:ARG:HH12	18:Z4:114:LYS:HG2	1.75	0.51
21:i4:355:G:OP1	30:L4:105:ARG:NH1	2.44	0.51
21:i4:1522:A:H8	31:P4:128:HIS:HB3	1.74	0.51
27:H4:170:VAL:HG13	27:H4:171:GLU:N	2.26	0.51
30:L4:13:GLN:NE2	30:L4:14:PRO:HD2	2.26	0.51
30:L4:152:LYS:HA	30:L4:152:LYS:NZ	2.26	0.51
1:T5:77:LYS:HE2	21:i5:1588:A:H5''	1.92	0.51
9:g5:301:GLY:HA2	9:g5:307:VAL:HA	1.93	0.51
12:J5:78:LEU:HD21	12:J5:97:ILE:HD11	1.93	0.51
16:W5:24:GLN:HG3	16:W5:64:ASN:HA	1.93	0.51
21:i5:191:A:O3'	28:I5:141:ARG:HG2	2.11	0.51
21:i5:1163:C:H2'	21:i5:1164:G:H8	1.75	0.51
21:i5:1300:U:N3	31:P5:51:ARG:CD	2.73	0.51
21:i5:1751:C:C5	21:i5:1781:A:C2	2.99	0.51
21:i5:1758:G:O2'	21:i5:1774:C:N4	2.44	0.51
22:A5:39:TYR:HB2	22:A5:50:ASN:HB3	1.91	0.51
26:F5:174:ALA:O	26:F5:178:ILE:HG12	2.10	0.51
31:P5:57:LEU:HD23	31:P5:61:ARG:HH21	1.75	0.51
11:G6:220:ALA:HA	11:G6:223:LYS:HZ1	1.75	0.51
20:e6:45:VAL:CG1	21:i6:534:G:O3'	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:440:G:OP1	28:I6:24:LYS:NZ	2.41	0.51
21:i6:535:G:N2	21:i6:548:C:H42	2.09	0.51
21:i6:1569:A:O2'	21:i6:1626:C:O2	2.25	0.51
22:A6:39:TYR:CE2	33:R6:105:MET:HB3	2.46	0.51
26:F6:19:LEU:O	26:F6:21:GLY:N	2.43	0.51
36:k2:118:SER:HB2	36:k2:119:PRO:CD	2.34	0.51
36:k2:170:LEU:HG	36:k2:175:TRP:CE2	2.46	0.51
36:k4:95:GLN:OE1	36:k4:95:GLN:HA	2.11	0.51
37:l1:158:VAL:HG23	37:l1:164:ILE:HD13	1.93	0.51
2:U1:49:LYS:C	2:U1:51:LYS:H	2.18	0.51
9:g1:30:MET:HE3	9:g1:42:MET:HE1	1.93	0.51
9:g1:301:GLY:HA2	9:g1:307:VAL:HA	1.93	0.51
13:M1:49:LEU:HD22	13:M1:75:ASN:HB2	1.92	0.51
14:N1:133:ARG:CZ	30:L1:154:GLN:HA	2.38	0.51
17:Y1:58:PHE:HZ	25:E1:56:LEU:HD11	1.76	0.51
21:i1:974:C:H2'	21:i1:975:G:H8	1.75	0.51
21:i1:1380:C:O2'	22:A1:112:ILE:O	2.26	0.51
21:i1:1522:A:N6	31:P1:131:PRO:CB	2.73	0.51
28:I1:123:ARG:NE	15:O6:64:ALA:O	2.44	0.51
28:I1:200:ARG:CB	21:i6:970:G:N2	2.74	0.51
32:Q1:112:LEU:HB3	32:Q1:119:LEU:HD13	1.93	0.51
33:R1:61:ILE:O	33:R1:73:LEU:CD1	2.59	0.51
1:T2:77:LYS:HE2	21:i2:1588:A:H5''	1.92	0.51
4:X2:22:TRP:NE1	21:i2:359:U:OP1	2.37	0.51
6:c2:21:THR:O	6:c2:29:GLN:NE2	2.44	0.51
10:C2:68:ARG:NE	10:C2:277:HIS:CB	2.73	0.51
10:C2:74:LYS:CE	10:C2:272:HIS:CB	2.70	0.51
13:M2:92:CYS:SG	13:M2:103:VAL:HG22	2.51	0.51
15:O2:17:LEU:CD2	15:O2:18:GLY:H	2.22	0.51
15:O2:128:ARG:HH12	15:O2:130:GLU:HB2	1.76	0.51
17:Y2:109:GLU:CD	17:Y2:113:ARG:HD2	2.31	0.51
21:i2:39:A:N6	21:i2:515:G:H1'	2.26	0.51
21:i2:436:G:OP1	21:i2:471:G:O2'	2.29	0.51
21:i2:687:C:H4'	21:i2:688:U:OP2	2.10	0.51
21:i2:1102:G:H2'	21:i2:1103:C:H6	1.76	0.51
26:F2:174:ALA:O	26:F2:178:ILE:HG12	2.10	0.51
9:g3:105:THR:OG1	9:g3:126:ASP:OD2	2.28	0.51
9:g3:130:LYS:HB3	9:g3:141:THR:HG23	1.93	0.51
10:C3:68:ARG:NE	10:C3:277:HIS:CB	2.73	0.51
10:C3:272:HIS:O	10:C3:274:VAL:N	2.42	0.51
16:W3:37:PHE:O	16:W3:40:VAL:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W3:111:MET:HB2	16:W3:115:GLU:CD	2.36	0.51
18:Z3:85:ARG:HH11	21:i3:1596:U:H5	0.62	0.51
21:i3:794:A:N6	21:i3:796:G:O6	2.43	0.51
22:A3:145:ILE:HG22	22:A3:159:ILE:HB	1.93	0.51
23:B3:102:GLY:HA2	23:B3:215:VAL:HG13	1.93	0.51
24:D3:92:ALA:O	24:D3:93:THR:OG1	2.27	0.51
24:D3:204:LEU:C	24:D3:206:ASP:H	2.19	0.51
9:g4:23:THR:HG21	9:g4:292:SER:HA	1.93	0.51
11:G4:147:LEU:HD13	11:G4:148:SER:CB	2.41	0.51
12:J4:61:LEU:HA	12:J4:70:ARG:HH12	1.75	0.51
13:M4:79:VAL:HG12	13:M4:80:ASP:H	1.75	0.51
21:i4:748:C:OP1	21:i4:796:G:N1	2.35	0.51
21:i4:1678:A:H2'	21:i4:1679:A:C8	2.46	0.51
21:i4:1854:U:H2'	21:i4:1855:G:C8	2.45	0.51
22:A4:39:TYR:CE2	33:R4:105:MET:HB3	2.46	0.51
22:A4:214:GLU:CD	33:R4:84:TYR:CG	2.89	0.51
24:D4:135:GLU:OE2	24:D4:159:HIS:NE2	2.36	0.51
30:L4:128:VAL:HG12	30:L4:140:PHE:HB3	1.92	0.51
32:Q4:134:GLY:HA3	32:Q4:141:TYR:H	1.75	0.51
7:d5:10:HIS:HB3	21:i5:1513:C:H5''	1.92	0.51
10:C5:210:PRO:HD3	10:C5:236:PHE:HE2	1.75	0.51
14:N5:17:PRO:HG3	21:i5:1016:U:H6	1.75	0.51
17:Y5:36:PRO:HG3	21:i5:570:C:H4'	1.92	0.51
17:Y5:111:LYS:NZ	21:i5:56:G:OP1	2.41	0.51
21:i5:39:A:N6	21:i5:515:G:H1'	2.26	0.51
21:i5:1170:A:H5'	21:i5:1172:U:H1'	1.93	0.51
21:i5:1621:U:H4'	31:P5:115:TYR:HH	1.69	0.51
26:F5:123:GLU:OE2	26:F5:197:GLU:HA	2.11	0.51
27:H5:87:PHE:CE2	27:H5:90:LYS:HD2	2.46	0.51
1:T6:49:ASP:OD1	1:T6:50:GLU:N	2.44	0.51
6:c6:37:ASP:O	6:c6:39:SER:N	2.43	0.51
7:d6:32:ARG:HH22	21:i6:1659:U:H3'	1.75	0.51
10:C6:142:LYS:NZ	10:C6:153:GLY:C	2.69	0.51
10:C6:272:HIS:O	10:C6:274:VAL:N	2.42	0.51
21:i6:57:U:O2'	21:i6:499:G:N3	2.44	0.51
21:i6:560:A:H2'	21:i6:561:A:H8	1.76	0.51
21:i6:1220:A:N3	21:i6:1677:U:O2'	2.40	0.51
21:i6:1758:G:O2'	21:i6:1774:C:N4	2.44	0.51
24:D6:124:ARG:O	24:D6:128:GLU:N	2.40	0.51
25:E6:124:CYS:O	25:E6:160:ILE:N	2.29	0.51
30:L6:13:GLN:NE2	30:L6:14:PRO:HD2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:L6:145:VAL:HG12	30:L6:147:LYS:HG2	1.93	0.51
31:P6:133:ILE:HG22	31:P6:134:GLY:N	2.25	0.51
36:k4:82:LEU:HD12	36:k4:169:TYR:CA	2.41	0.51
36:k5:96:GLN:CD	36:k5:122:LYS:HD3	2.36	0.51
36:k6:39:TRP:CE2	36:k6:90:PHE:CZ	3.00	0.51
37:l4:126:LYS:HA	37:l4:168:GLY:CA	2.40	0.51
37:l5:158:VAL:HG23	37:l5:164:ILE:HD13	1.93	0.51
11:G1:186:GLN:NE2	21:i1:331:C:N3	2.40	0.50
15:O1:111:GLY:HA2	15:O1:114:SER:HB3	1.93	0.50
16:W1:78:ARG:HH12	21:i1:864:A:H4'	1.75	0.50
21:i1:436:G:OP1	21:i1:471:G:O2'	2.29	0.50
21:i1:1781:A:N3	21:i1:1781:A:C2'	2.73	0.50
22:A1:39:TYR:CE2	33:R1:105:MET:HB3	2.47	0.50
23:B1:22:VAL:HA	23:B1:27:LYS:HZ1	1.76	0.50
34:S1:86:ARG:NH2	34:S1:110:ASP:OD2	2.44	0.50
2:U2:39:LEU:HD22	2:U2:102:THR:HG22	1.93	0.50
2:U2:49:LYS:C	2:U2:51:LYS:H	2.18	0.50
5:a2:99:PRO:HB3	21:i2:1868:U:O4	2.11	0.50
12:J2:27:GLN:O	12:J2:30:LYS:HG2	2.10	0.50
21:i2:980:A:O2'	21:i2:981:A:OP1	2.27	0.50
26:F2:15:PRO:HG3	32:Q2:57:LEU:HA	1.93	0.50
10:C3:65:LYS:HZ2	10:C3:280:VAL:HB	1.73	0.50
11:G3:24:LEU:O	11:G3:26:THR:N	2.42	0.50
11:G3:32:MET:HA	11:G3:52:ILE:HG13	1.94	0.50
11:G3:94:ARG:NH2	21:i3:1737:G:OP1	2.44	0.50
11:G3:154:ARG:O	21:i3:77:A:C5'	2.60	0.50
13:M3:48:HIS:CB	13:M3:114:TYR:OH	2.60	0.50
16:W3:101:PHE:HA	16:W3:113:HIS:CD2	2.46	0.50
21:i3:196:C:O2'	21:i3:203:G:N2	2.44	0.50
21:i3:337:C:O2'	21:i3:339:A:OP1	2.16	0.50
21:i3:1170:A:H5'	21:i3:1172:U:H1'	1.93	0.50
21:i3:1208:A:H2'	21:i3:1209:A:C8	2.46	0.50
21:i3:1842:C:C2'	35:j3:4:LYS:HZ3	2.23	0.50
26:F3:19:LEU:O	26:F3:21:GLY:N	2.43	0.50
30:L3:13:GLN:NE2	30:L3:14:PRO:HD2	2.26	0.50
31:P3:34:MET:C	31:P3:42:ARG:HG3	2.37	0.50
10:C4:65:LYS:HG2	10:C4:279:ARG:NE	2.26	0.50
18:Z4:85:ARG:NH1	21:i4:1596:U:H6	2.02	0.50
21:i4:695:C:H4'	21:i4:695:C:OP1	2.11	0.50
21:i4:1395:C:H3'	21:i4:1396:A:H5''	1.93	0.50
21:i4:1736:G:H2'	21:i4:1737:G:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1776:G:N3	21:i4:1776:G:C3'	2.73	0.50
21:i4:1842:C:P	35:j4:2:ARG:HE	2.33	0.50
26:F4:38:TYR:HD1	26:F4:144:LEU:HD13	1.76	0.50
4:X5:9:THR:O	4:X5:11:ARG:N	2.43	0.50
13:M5:117:GLU:OE1	13:M5:119:GLN:N	2.36	0.50
13:M5:125:GLU:O	13:M5:129:LYS:HG3	2.10	0.50
15:O5:46:ASP:O	15:O5:49:GLY:N	2.40	0.50
16:W5:37:PHE:O	16:W5:40:VAL:HG22	2.11	0.50
17:Y5:58:PHE:HZ	25:E5:56:LEU:HD11	1.76	0.50
18:Z5:85:ARG:HH12	21:i5:1595:U:H3'	1.76	0.50
21:i5:12:U:H1'	21:i5:1357:A:O4'	2.12	0.50
21:i5:187:G:C6	21:i5:188:C:N4	2.79	0.50
21:i5:1709:G:OP1	37:l5:151:LYS:CD	2.59	0.50
21:i5:1750:C:H5	21:i5:1781:A:N1	2.09	0.50
24:D5:64:ARG:HD3	29:K5:95:ARG:NH2	2.24	0.50
29:K5:59:LYS:O	29:K5:70:TYR:N	2.37	0.50
33:R5:10:LYS:HD3	33:R5:14:ARG:HH22	1.76	0.50
34:S5:86:ARG:NH2	34:S5:110:ASP:OD2	2.44	0.50
1:T6:81:GLY:O	1:T6:93:SER:N	2.44	0.50
8:f6:80:ARG:NH1	21:i6:1509:U:C5	2.78	0.50
8:f6:92:LYS:C	21:i6:1304:U:C4'	2.65	0.50
23:B6:27:LYS:HA	23:B6:51:ARG:HH21	1.76	0.50
25:E6:45:ILE:HG13	25:E6:61:VAL:HG11	1.94	0.50
26:F6:123:GLU:OE2	26:F6:197:GLU:HA	2.11	0.50
31:P6:115:TYR:H	31:P6:115:TYR:HD2	1.53	0.50
36:k1:83:ARG:NH2	36:k1:175:TRP:CD1	2.78	0.50
36:k3:92:LEU:CD2	36:k3:131:ILE:O	2.58	0.50
36:k5:9:GLU:O	36:k5:56:HIS:HE1	1.95	0.50
37:l2:174:ILE:HG23	37:l2:175:ILE:HG23	1.92	0.50
37:l6:120:ILE:HG23	37:l6:121:PRO:CD	2.40	0.50
8:f1:92:LYS:C	21:i1:1304:U:C4'	2.64	0.50
10:C1:166:ARG:O	10:C1:181:PRO:HD3	2.11	0.50
11:G1:141:ILE:HG12	11:G1:144:LEU:HD11	1.92	0.50
15:O1:66:ARG:HH21	28:I3:125:LYS:CE	2.00	0.50
21:i1:968:U:O3'	21:i1:971:G:H4'	2.11	0.50
34:S1:108:ARG:NH2	21:i3:1773:C:H5'	2.27	0.50
11:G2:50:VAL:HG21	11:G2:111:LEU:HD21	1.93	0.50
11:G2:154:ARG:O	21:i2:77:A:C5'	2.60	0.50
11:G2:189:ARG:CZ	21:i2:331:C:N4	2.73	0.50
13:M2:48:HIS:CB	13:M2:114:TYR:OH	2.60	0.50
17:Y2:58:PHE:HZ	25:E2:56:LEU:HD11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:305:U:O2'	21:i2:309:G:OP2	2.29	0.50
21:i2:350:C:O2'	21:i2:383:G:N2	2.43	0.50
21:i2:535:G:N2	21:i2:548:C:H42	2.09	0.50
21:i2:1170:A:N6	21:i2:1189:A:OP2	2.41	0.50
23:B2:21:VAL:HG23	30:L4:31:GLU:O	1.96	0.50
23:B2:32:ASP:OD1	23:B2:33:VAL:N	2.44	0.50
26:F2:25:THR:HA	26:F2:107:ASN:HD21	1.75	0.50
26:F2:43:GLU:HB3	26:F2:44:LYS:HA	1.91	0.50
27:H2:87:PHE:CE2	27:H2:90:LYS:HD2	2.46	0.50
30:L2:152:LYS:HE3	30:L2:152:LYS:CA	2.36	0.50
34:S2:86:ARG:NH2	34:S2:110:ASP:OD2	2.45	0.50
34:S2:108:ARG:NH2	21:i4:1773:C:C2'	2.54	0.50
4:X3:11:ARG:NH1	21:i3:399:C:H4'	2.26	0.50
11:G3:147:LEU:HD13	11:G3:148:SER:CB	2.41	0.50
12:J3:78:LEU:HD21	12:J3:97:ILE:HD11	1.93	0.50
18:Z3:93:SER:N	18:Z3:97:ILE:HG21	2.26	0.50
22:A3:210:ILE:CG1	22:A3:211:GLU:N	2.74	0.50
24:D3:161:GLY:O	24:D3:164:VAL:HG12	2.12	0.50
25:E3:211:LYS:HE2	25:E3:215:GLY:HA2	1.93	0.50
26:F3:174:ALA:O	26:F3:178:ILE:HG12	2.10	0.50
1:T4:49:ASP:OD1	1:T4:50:GLU:N	2.44	0.50
18:Z4:93:SER:N	18:Z4:97:ILE:HG21	2.27	0.50
21:i4:1102:G:H2'	21:i4:1103:C:C6	2.47	0.50
23:B4:138:PHE:O	23:B4:213:ARG:N	2.39	0.50
31:P4:121:ILE:CG2	31:P4:122:THR:N	2.73	0.50
32:Q4:112:LEU:HB3	32:Q4:119:LEU:HD13	1.92	0.50
33:R4:28:PHE:HA	33:R4:55:THR:HG21	1.94	0.50
33:R4:36:GLU:OE1	33:R4:36:GLU:N	2.43	0.50
33:R4:58:MET:HA	33:R4:61:ILE:CG1	2.42	0.50
11:G5:66:GLY:O	21:i5:1790:A:H2	1.94	0.50
11:G5:147:LEU:HD13	11:G5:148:SER:CB	2.42	0.50
11:G5:154:ARG:O	21:i5:77:A:C5'	2.59	0.50
14:N5:133:ARG:HE	30:L5:154:GLN:CB	2.11	0.50
21:i5:1102:G:H2'	21:i5:1103:C:C6	2.47	0.50
21:i5:1708:C:O2'	37:l5:152:PHE:N	2.45	0.50
23:B5:32:ASP:OD1	23:B5:33:VAL:N	2.45	0.50
4:X6:81:ILE:HG21	4:X6:120:PHE:CD2	2.47	0.50
5:a6:85:ARG:HG3	5:a6:86:ASN:H	1.74	0.50
8:f6:103:LEU:HD22	13:M6:64:LEU:HD12	1.92	0.50
10:C6:64:THR:HA	10:C6:279:ARG:HD2	1.93	0.50
11:G6:60:GLY:O	21:i6:156:G:N2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G6:147:LEU:HD13	11:G6:148:SER:CB	2.41	0.50
14:N6:29:THR:O	14:N6:30:SER:C	2.55	0.50
15:O6:12:GLU:N	15:O6:14:VAL:HA	2.26	0.50
18:Z6:88:LEU:HD22	18:Z6:109:TYR:CE2	2.45	0.50
21:i6:355:G:OP1	30:L6:105:ARG:NH1	2.45	0.50
21:i6:436:G:OP1	21:i6:471:G:O2'	2.29	0.50
21:i6:557:U:H2'	21:i6:558:G:C8	2.46	0.50
21:i6:1828:C:C5'	37:l6:154:CYS:SG	2.99	0.50
32:Q6:112:LEU:HB3	32:Q6:119:LEU:HD13	1.93	0.50
33:R6:74:GLN:HB3	33:R6:77:GLU:HB2	1.93	0.50
36:k3:169:TYR:N	36:k3:169:TYR:CD2	2.79	0.50
36:k5:167:ILE:HG22	36:k5:168:HIS:N	2.27	0.50
37:l1:120:ILE:HG22	37:l1:121:PRO:N	2.25	0.50
37:l4:120:ILE:HG22	37:l4:121:PRO:N	2.25	0.50
37:l6:175:ILE:HD12	37:l6:175:ILE:O	2.12	0.50
4:X1:81:ILE:HG21	4:X1:120:PHE:CD2	2.47	0.50
5:a1:102:ARG:N	5:a1:102:ARG:CD	2.73	0.50
8:f1:103:LEU:HD22	13:M1:64:LEU:HD12	1.92	0.50
9:g1:130:LYS:HB3	9:g1:141:THR:HG23	1.93	0.50
11:G1:154:ARG:O	21:i1:77:A:C5'	2.60	0.50
18:Z1:82:SER:CB	21:i1:1598:G:H8	2.23	0.50
20:e1:45:VAL:CG2	21:i1:536:A:P	2.91	0.50
21:i1:186:C:C2'	21:i1:187:G:O4'	2.57	0.50
25:E1:191:ARG:HE	25:E1:245:ARG:HD2	1.77	0.50
29:K1:4:PRO:HG2	29:K1:8:ARG:HE	1.77	0.50
9:g2:130:LYS:HB3	9:g2:141:THR:HG23	1.93	0.50
12:J2:17:ARG:HE	21:i2:3:C:H41	1.60	0.50
14:N2:23:PRO:O	14:N2:25:TRP:N	2.44	0.50
18:Z2:85:ARG:CZ	21:i2:1596:U:C5	2.89	0.50
18:Z2:93:SER:N	18:Z2:97:ILE:HG21	2.27	0.50
21:i2:1300:U:N3	31:P2:51:ARG:CD	2.73	0.50
21:i2:1772:C:O2'	34:S5:108:ARG:CB	2.49	0.50
21:i2:1828:C:P	37:l2:125:LYS:HZ3	2.34	0.50
22:A2:145:ILE:HG22	22:A2:159:ILE:HB	1.93	0.50
26:F2:40:ALA:HA	26:F2:44:LYS:HE3	1.92	0.50
30:L2:13:GLN:NE2	30:L2:14:PRO:HD2	2.26	0.50
5:a3:100:ARG:CZ	5:a3:100:ARG:CB	2.88	0.50
11:G3:153:VAL:C	11:G3:155:GLN:N	2.69	0.50
15:O3:111:GLY:HA2	15:O3:114:SER:HB3	1.93	0.50
15:O3:128:ARG:HH12	15:O3:130:GLU:HB2	1.76	0.50
16:W3:78:ARG:HH12	21:i3:864:A:H4'	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z3:88:LEU:HD22	18:Z3:109:TYR:CE2	2.45	0.50
21:i3:980:A:O2'	21:i3:981:A:OP1	2.27	0.50
22:A3:39:TYR:CE2	33:R3:105:MET:HB3	2.47	0.50
23:B3:32:ASP:OD1	23:B3:33:VAL:N	2.45	0.50
24:D3:204:LEU:O	24:D3:206:ASP:N	2.36	0.50
32:Q3:34:VAL:N	32:Q3:37:ARG:O	2.25	0.50
34:S3:26:ILE:O	34:S3:30:ILE:HG12	2.10	0.50
1:T4:81:GLY:O	1:T4:93:SER:N	2.44	0.50
2:U4:17:ILE:HG21	2:U4:94:PRO:CB	2.38	0.50
11:G4:60:GLY:O	21:i4:156:G:N2	2.44	0.50
12:J4:164:PRO:HG3	21:i4:561:A:O3'	2.11	0.50
14:N4:23:PRO:O	14:N4:25:TRP:N	2.44	0.50
16:W4:37:PHE:O	16:W4:40:VAL:HG22	2.11	0.50
17:Y4:50:THR:O	17:Y4:51:THR:OG1	2.26	0.50
20:e4:11:LYS:NZ	20:e4:11:LYS:HB3	2.25	0.50
21:i4:1758:G:O2'	21:i4:1774:C:N4	2.44	0.50
22:A4:198:MET:SD	22:A4:199:PRO:HD2	2.50	0.50
24:D4:161:GLY:O	24:D4:164:VAL:HG12	2.12	0.50
25:E4:176:ASP:OD1	25:E4:177:THR:N	2.41	0.50
27:H4:87:PHE:CE2	27:H4:90:LYS:HD2	2.47	0.50
33:R4:80:ARG:HH11	33:R4:80:ARG:CG	2.23	0.50
34:S4:86:ARG:NH2	34:S4:110:ASP:OD2	2.44	0.50
2:U5:39:LEU:HD22	2:U5:102:THR:HG22	1.92	0.50
9:g5:23:THR:HG21	9:g5:292:SER:HA	1.93	0.50
9:g5:105:THR:OG1	9:g5:126:ASP:OD2	2.28	0.50
12:J5:26:ASP:CB	20:e5:41:ARG:NH2	2.73	0.50
14:N5:141:TYR:CE1	14:N5:146:ALA:HB1	2.44	0.50
21:i5:535:G:N2	21:i5:548:C:H42	2.09	0.50
21:i5:1552:G:N3	21:i5:1557:C:N4	2.45	0.50
25:E5:45:ILE:HG13	25:E5:61:VAL:HG11	1.94	0.50
29:K5:93:THR:CB	29:K5:95:ARG:HH12	2.25	0.50
9:g6:186:THR:HA	24:D6:226:GLN:HG3	1.94	0.50
10:C6:68:ARG:NE	10:C6:277:HIS:CB	2.73	0.50
12:J6:78:LEU:HD21	12:J6:97:ILE:HD11	1.93	0.50
15:O6:66:ARG:NH2	21:i6:962:A:O3'	2.43	0.50
21:i6:49:C:O2	21:i6:477:G:N2	2.42	0.50
21:i6:794:A:N6	21:i6:796:G:O6	2.44	0.50
21:i6:890:U:O4	21:i6:896:U:O2'	2.29	0.50
21:i6:1678:A:H2'	21:i6:1679:A:C8	2.46	0.50
22:A6:145:ILE:HG22	22:A6:159:ILE:HB	1.92	0.50
36:k4:9:GLU:O	36:k4:56:HIS:HE1	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:96:GLN:CD	36:k6:122:LYS:HD3	2.36	0.50
37:l1:126:LYS:CA	37:l1:168:GLY:HA2	2.40	0.50
37:l4:174:ILE:HG23	37:l4:175:ILE:HG23	1.92	0.50
1:T1:77:LYS:HE2	21:i1:1588:A:H5''	1.93	0.50
1:T1:81:GLY:O	1:T1:93:SER:N	2.44	0.50
9:g1:68:ASP:OD1	9:g1:69:VAL:N	2.44	0.50
18:Z1:85:ARG:HH12	21:i1:1595:U:H3'	1.77	0.50
21:i1:535:G:N2	21:i1:548:C:H42	2.09	0.50
21:i1:1842:C:C6	35:j1:4:LYS:HE2	2.46	0.50
23:B1:32:ASP:OD1	23:B1:33:VAL:N	2.45	0.50
28:I1:141:ARG:CZ	26:F6:191:LYS:HE2	2.29	0.50
2:U2:21:ARG:O	2:U2:115:THR:OG1	2.24	0.50
6:c2:47:LYS:HZ1	26:F2:145:ARG:HG2	1.76	0.50
8:f2:80:ARG:NH1	21:i2:1509:U:C5	2.80	0.50
8:f2:105:TYR:CE1	8:f2:131:PHE:CZ	3.00	0.50
10:C2:277:HIS:O	10:C2:279:ARG:N	2.36	0.50
17:Y2:109:GLU:CD	17:Y2:113:ARG:CZ	2.84	0.50
21:i2:691:G:H3'	21:i2:692:G:H5''	1.92	0.50
21:i2:691:G:H4'	21:i2:691:G:OP1	2.11	0.50
21:i2:748:C:OP1	21:i2:796:G:N1	2.35	0.50
21:i2:1678:A:H2'	21:i2:1679:A:C8	2.46	0.50
23:B2:27:LYS:HA	23:B2:51:ARG:HH21	1.77	0.50
25:E2:45:ILE:HG13	25:E2:61:VAL:HG11	1.94	0.50
25:E2:211:LYS:HE2	25:E2:215:GLY:HA2	1.93	0.50
29:K2:18:GLU:HG3	29:K2:20:VAL:HG22	1.94	0.50
29:K2:57:TYR:O	29:K2:72:THR:OG1	2.19	0.50
31:P2:34:MET:HB3	31:P2:42:ARG:HG3	1.93	0.50
34:S2:108:ARG:HH12	21:i4:1773:C:H2'	1.77	0.50
11:G3:141:ILE:HG12	11:G3:144:LEU:HD11	1.92	0.50
13:M3:28:HIS:NE2	13:M3:116:LYS:HE3	2.22	0.50
18:Z3:41:ARG:HB3	21:i6:209:A:C2	2.44	0.50
21:i3:305:U:O2'	21:i3:309:G:OP2	2.30	0.50
22:A3:6:ASP:O	22:A3:9:GLN:NE2	2.34	0.50
22:A3:104:THR:OG1	22:A3:107:THR:OG1	2.25	0.50
28:I3:191:GLU:N	28:I3:195:LEU:HB2	2.26	0.50
33:R3:10:LYS:HD3	33:R3:14:ARG:HH22	1.76	0.50
33:R3:36:GLU:OE1	33:R3:36:GLU:N	2.43	0.50
7:d4:29:GLY:O	7:d4:40:ARG:HG3	2.12	0.50
11:G4:154:ARG:O	21:i4:77:A:C5'	2.60	0.50
14:N4:39:LYS:HA	14:N4:42:LYS:HZ2	1.76	0.50
15:O4:12:GLU:N	15:O4:14:VAL:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z4:85:ARG:HH12	21:i4:1595:U:H3'	1.77	0.50
19:b4:21:LYS:O	19:b4:23:ARG:N	2.38	0.50
21:i4:12:U:HO2'	21:i4:1356:G:C2'	2.23	0.50
21:i4:93:U:O2'	25:E4:8:HIS:ND1	2.42	0.50
21:i4:1373:C:H5'	33:R4:7:LYS:HB2	1.94	0.50
22:A4:104:THR:OG1	22:A4:107:THR:OG1	2.26	0.50
22:A4:145:ILE:HG22	22:A4:159:ILE:HB	1.93	0.50
24:D4:204:LEU:C	24:D4:206:ASP:H	2.19	0.50
25:E4:191:ARG:HE	25:E4:245:ARG:HD2	1.77	0.50
1:T5:81:GLY:O	1:T5:93:SER:N	2.44	0.50
5:a5:79:ILE:HG13	5:a5:84:VAL:HG23	1.93	0.50
8:f5:80:ARG:HH21	21:i5:1503:C:H1'	1.75	0.50
9:g5:242:SER:N	9:g5:246:TYR:O	2.44	0.50
10:C5:118:ALA:HB3	21:i5:1486:A:O2'	2.12	0.50
15:O5:34:PHE:CD1	15:O5:98:ARG:HD3	2.47	0.50
15:O5:74:ALA:HB1	15:O5:115:ALA:HB2	1.93	0.50
17:Y5:15:ASN:HD21	17:Y5:20:ARG:HH21	1.60	0.50
21:i5:326:C:H4'	21:i5:327:G:H5'	1.92	0.50
24:D5:135:GLU:OE2	24:D5:159:HIS:NE2	2.36	0.50
31:P5:15:PHE:CE2	31:P5:109:PRO:O	2.65	0.50
5:a6:99:PRO:HB3	21:i6:1868:U:O4	2.11	0.50
8:f6:80:ARG:NH1	21:i6:1509:U:O4	2.20	0.50
8:f6:100:LEU:HD22	8:f6:103:LEU:HD11	1.93	0.50
11:G6:32:MET:HA	11:G6:52:ILE:HG13	1.94	0.50
11:G6:154:ARG:O	21:i6:77:A:C5'	2.59	0.50
18:Z6:93:SER:N	18:Z6:97:ILE:HG21	2.26	0.50
18:Z6:111:ARG:HH12	18:Z6:114:LYS:HG2	1.75	0.50
21:i6:1170:A:H5'	21:i6:1172:U:H1'	1.93	0.50
28:I6:79:ILE:HG21	28:I6:170:LYS:HZ2	1.77	0.50
32:Q6:54:PRO:HG2	32:Q6:88:ILE:HD11	1.94	0.50
36:k2:83:ARG:CZ	36:k2:175:TRP:CE3	2.94	0.50
36:k2:96:GLN:CD	36:k2:122:LYS:HD3	2.36	0.50
36:k3:96:GLN:CD	36:k3:122:LYS:HD3	2.36	0.50
37:l1:126:LYS:HD2	37:l1:167:GLN:HB3	1.93	0.50
37:l1:174:ILE:HG23	37:l1:175:ILE:N	2.26	0.50
37:l6:158:VAL:HG23	37:l6:164:ILE:HD13	1.93	0.50
10:C1:210:PRO:HD3	10:C1:236:PHE:HE2	1.75	0.50
11:G1:147:LEU:HD13	11:G1:148:SER:CB	2.41	0.50
12:J1:40:LYS:HG3	20:e1:34:ARG:HH12	1.76	0.50
13:M1:92:CYS:SG	13:M1:103:VAL:HG22	2.51	0.50
18:Z1:85:ARG:HH11	21:i1:1596:U:H5	0.62	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:356:C:OP2	30:L1:105:ARG:NH1	2.20	0.50
21:i1:1560:U:H2'	21:i1:1561:A:C8	2.47	0.50
25:E1:45:ILE:HG13	25:E1:61:VAL:HG11	1.93	0.50
10:C2:74:LYS:CE	10:C2:272:HIS:HB3	2.41	0.50
11:G2:189:ARG:HB2	21:i2:331:C:H5	1.76	0.50
14:N2:34:LYS:HB3	14:N2:38:TYR:CE2	2.47	0.50
21:i2:733:C:N4	27:H2:149:ASP:HA	2.27	0.50
21:i2:1220:A:N3	21:i2:1677:U:O2'	2.40	0.50
21:i2:1522:A:N6	31:P2:131:PRO:CB	2.74	0.50
21:i2:1776:G:N3	21:i2:1776:G:C3'	2.73	0.50
21:i2:1854:U:H2'	21:i2:1855:G:H8	1.77	0.50
32:Q2:112:LEU:HB3	32:Q2:119:LEU:HD13	1.92	0.50
6:c3:21:THR:O	6:c3:29:GLN:NE2	2.44	0.50
12:J3:4:ALA:H	12:J3:5:ARG:HB2	1.75	0.50
14:N3:23:PRO:O	14:N3:25:TRP:N	2.44	0.50
20:e3:31:ARG:HH12	21:i3:526:A:C5'	2.20	0.50
26:F3:25:THR:HA	26:F3:107:ASN:HD21	1.75	0.50
26:F3:157:GLY:HA2	26:F3:160:GLU:HG2	1.93	0.50
27:H3:87:PHE:CE2	27:H3:90:LYS:HD2	2.47	0.50
27:H3:88:SER:O	27:H3:90:LYS:N	2.42	0.50
13:M4:125:GLU:O	13:M4:129:LYS:HG3	2.10	0.50
17:Y4:58:PHE:HZ	25:E4:56:LEU:HD11	1.76	0.50
18:Z4:75:GLU:CD	21:i5:193:C:C5'	2.84	0.50
21:i4:296:U:O2'	25:E4:130:PHE:O	2.23	0.50
21:i4:980:A:O2'	21:i4:981:A:OP1	2.28	0.50
21:i4:1069:U:O5'	36:k4:18:LYS:NZ	2.25	0.50
23:B4:102:GLY:HA2	23:B4:215:VAL:HG13	1.93	0.50
1:T5:49:ASP:OD1	1:T5:50:GLU:N	2.44	0.50
4:X5:11:ARG:NH1	21:i5:399:C:H4'	2.26	0.50
5:a5:101:PHE:CB	5:a5:102:ARG:HD2	2.42	0.50
7:d5:32:ARG:HH22	21:i5:1659:U:H3'	1.75	0.50
17:Y5:113:ARG:HA	17:Y5:116:LYS:NZ	2.21	0.50
20:e5:45:VAL:HG13	21:i5:535:G:O3'	2.10	0.50
21:i5:1143:A:O3'	21:i5:1355:C:C4	2.65	0.50
21:i5:1220:A:N3	21:i5:1677:U:O2'	2.40	0.50
22:A5:217:ALA:HB1	22:A5:220:LYS:CE	2.34	0.50
24:D5:168:VAL:HG12	24:D5:189:MET:HA	1.92	0.50
34:S5:86:ARG:HB3	34:S5:89:ASP:OD1	2.12	0.50
6:c6:21:THR:O	6:c6:29:GLN:NE2	2.44	0.50
9:g6:130:LYS:HB3	9:g6:141:THR:HG23	1.93	0.50
14:N6:29:THR:HG22	14:N6:31:ASP:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b6:31:TYR:O	19:b6:48:SER:OG	2.19	0.50
21:i6:197:U:H2'	21:i6:198:U:H4'	1.92	0.50
21:i6:350:C:O2'	21:i6:383:G:N2	2.43	0.50
21:i6:1860:A:O2'	21:i6:1861:G:OP2	2.27	0.50
25:E6:211:LYS:HE2	25:E6:215:GLY:HA2	1.93	0.50
26:F6:15:PRO:HG3	32:Q6:57:LEU:HA	1.93	0.50
29:K6:32:HIS:N	29:K6:41:PRO:HA	2.22	0.50
36:k3:9:GLU:O	36:k3:56:HIS:HE1	1.95	0.50
36:k6:146:GLY:HA2	36:k6:167:ILE:HD11	1.94	0.50
5:a1:100:ARG:CZ	5:a1:100:ARG:CB	2.88	0.50
9:g1:186:THR:HA	24:D1:226:GLN:HG3	1.94	0.50
9:g1:259:TRP:HE1	9:g1:266:ILE:HG13	1.76	0.50
11:G1:219:GLU:O	11:G1:223:LYS:N	2.37	0.50
14:N1:137:PRO:CD	30:L1:154:GLN:HB3	2.39	0.50
16:W1:24:GLN:HG3	16:W1:64:ASN:HA	1.94	0.50
18:Z1:93:SER:N	18:Z1:97:ILE:HG21	2.27	0.50
21:i1:211:G:N1	21:i1:212:C:O2	2.44	0.50
21:i1:222:U:H3	21:i1:299:A:H61	1.60	0.50
21:i1:316:G:H8	21:i1:316:G:O5'	1.94	0.50
21:i1:868:G:O2'	21:i1:869:A:OP1	2.28	0.50
21:i1:970:G:C5	28:I3:200:ARG:NH2	2.80	0.50
21:i1:1079:C:O2'	21:i1:1182:A:N1	2.45	0.50
21:i1:1280:G:H1'	21:i1:1318:G:H22	1.77	0.50
26:F1:127:ARG:CB	26:F1:128:ILE:CG1	2.86	0.50
27:H1:87:PHE:CE2	27:H1:90:LYS:HD2	2.47	0.50
28:I1:123:ARG:NH1	21:i6:963:A:P	2.85	0.50
3:V2:76:ASP:OD1	3:V2:77:GLY:N	2.45	0.50
6:c2:37:ASP:O	6:c2:39:SER:N	2.43	0.50
7:d2:32:ARG:HH22	21:i2:1659:U:H3'	1.76	0.50
9:g2:292:SER:OG	9:g2:293:ALA:N	2.45	0.50
10:C2:145:LYS:HG3	21:i2:1348:G:C4'	2.38	0.50
16:W2:78:ARG:HH12	21:i2:864:A:H4'	1.76	0.50
18:Z2:88:LEU:HD22	18:Z2:109:TYR:CE2	2.45	0.50
20:e2:39:ASN:HB3	21:i2:552:G:C5'	2.40	0.50
21:i2:13:C:H5'	21:i2:1356:G:H1'	1.94	0.50
21:i2:1325:G:H1	21:i2:1503:C:H42	1.60	0.50
22:A2:39:TYR:CE2	33:R2:105:MET:HB3	2.47	0.50
24:D2:161:GLY:O	24:D2:164:VAL:HG12	2.12	0.50
28:I2:42:ARG:HG3	28:I2:58:LEU:HB2	1.94	0.50
2:U3:21:ARG:O	2:U3:115:THR:OG1	2.24	0.50
3:V3:76:ASP:OD1	3:V3:77:GLY:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X3:60:LYS:HB3	4:X3:62:PRO:HD2	1.93	0.50
8:f3:105:TYR:CE1	8:f3:131:PHE:CZ	3.00	0.50
9:g3:44:LYS:HB3	9:g3:46:THR:HG23	1.93	0.50
9:g3:242:SER:N	9:g3:246:TYR:O	2.44	0.50
10:C3:166:ARG:O	10:C3:181:PRO:HD3	2.11	0.50
11:G3:216:ARG:HG3	11:G3:223:LYS:HZ2	1.76	0.50
17:Y3:15:ASN:HD21	17:Y3:20:ARG:HH21	1.59	0.50
21:i3:1102:G:H2'	21:i3:1103:C:H6	1.76	0.50
21:i3:1395:C:H3'	21:i3:1396:A:H5''	1.93	0.50
25:E3:45:ILE:HG13	25:E3:61:VAL:HG11	1.93	0.50
28:I3:42:ARG:HG3	28:I3:58:LEU:HB2	1.94	0.50
29:K3:32:HIS:N	29:K3:41:PRO:HA	2.22	0.50
33:R3:61:ILE:HA	33:R3:73:LEU:HD22	1.93	0.50
34:S3:86:ARG:NH2	34:S3:110:ASP:OD2	2.44	0.50
34:S3:108:ARG:HH22	21:i6:1774:C:P	2.34	0.50
9:g4:298:LEU:HB3	9:g4:310:TRP:HB2	1.92	0.50
10:C4:68:ARG:CD	10:C4:277:HIS:HB3	2.36	0.50
21:i4:868:G:O2'	21:i4:869:A:OP1	2.28	0.50
23:B4:179:ASN:HB2	23:B4:183:GLU:HB3	1.94	0.50
26:F4:35:LEU:HD21	26:F4:146:ARG:HD3	1.94	0.50
33:R4:86:PRO:O	33:R4:89:SER:OG	2.15	0.50
8:f5:100:LEU:HD22	8:f5:103:LEU:HD11	1.94	0.50
11:G5:32:MET:HA	11:G5:52:ILE:HG13	1.94	0.50
13:M5:92:CYS:SG	13:M5:103:VAL:HG22	2.51	0.50
14:N5:23:PRO:O	14:N5:25:TRP:N	2.44	0.50
16:W5:78:ARG:HH12	21:i5:864:A:H4'	1.76	0.50
18:Z5:111:ARG:HH12	18:Z5:114:LYS:HG2	1.75	0.50
21:i5:13:C:O3'	21:i5:1355:C:O2	2.29	0.50
21:i5:436:G:OP1	21:i5:471:G:O2'	2.29	0.50
26:F5:40:ALA:HA	26:F5:44:LYS:HE3	1.92	0.50
32:Q5:54:PRO:HG2	32:Q5:88:ILE:HD11	1.94	0.50
34:S5:26:ILE:O	34:S5:30:ILE:HG12	2.11	0.50
1:T6:71:GLY:N	21:i6:1562:C:OP1	2.42	0.50
4:X6:60:LYS:HB3	4:X6:62:PRO:HD2	1.93	0.50
5:a6:101:PHE:HB3	5:a6:102:ARG:CD	2.42	0.50
5:a6:101:PHE:CB	5:a6:102:ARG:HD2	2.42	0.50
6:c6:23:SER:OG	6:c6:24:GLN:N	2.44	0.50
10:C6:145:LYS:CD	21:i6:1348:G:H5'	2.41	0.50
12:J6:164:PRO:HG3	21:i6:561:A:O3'	2.11	0.50
13:M6:28:HIS:NE2	13:M6:116:LYS:HE3	2.22	0.50
15:O6:111:GLY:HA2	15:O6:114:SER:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O6:128:ARG:HH12	15:O6:130:GLU:HB2	1.77	0.50
21:i6:1300:U:N3	31:P6:51:ARG:CD	2.73	0.50
21:i6:1376:A:C5'	22:A6:102:ARG:HD2	2.42	0.50
27:H6:87:PHE:CE2	27:H6:90:LYS:HD2	2.46	0.50
29:K6:93:THR:CB	29:K6:95:ARG:HH12	2.24	0.50
33:R6:28:PHE:HA	33:R6:55:THR:HG21	1.94	0.50
34:S6:86:ARG:NH2	34:S6:110:ASP:OD2	2.44	0.50
36:k1:96:GLN:CD	36:k1:122:LYS:HD3	2.36	0.50
36:k2:94:HIS:CB	36:k2:133:ALA:O	2.59	0.50
36:k3:71:PHE:CZ	36:k3:167:ILE:CG2	2.91	0.50
36:k3:86:HIS:CG	36:k3:141:HIS:CB	2.87	0.50
36:k5:94:HIS:CG	36:k5:135:MET:HG3	2.44	0.50
36:k6:17:LEU:HB2	36:k6:50:VAL:CG2	2.33	0.50
37:l5:126:LYS:CA	37:l5:168:GLY:HA2	2.40	0.50
5:a1:79:ILE:HG13	5:a1:84:VAL:HG23	1.93	0.50
5:a1:102:ARG:CB	5:a1:103:PRO:HA	2.40	0.50
8:f1:110:GLU:O	17:Y2:113:ARG:NE	2.42	0.50
10:C1:189:GLY:HA3	21:i1:1355:C:C2	2.47	0.50
11:G1:66:GLY:CA	21:i1:1745:A:C8	2.95	0.50
12:J1:164:PRO:HG3	21:i1:561:A:O3'	2.11	0.50
17:Y1:15:ASN:HD21	17:Y1:20:ARG:HH21	1.60	0.50
17:Y1:88:LYS:HD2	17:Y1:91:LEU:HB2	1.94	0.50
20:e1:43:VAL:CB	21:i1:551:U:OP1	2.59	0.50
21:i1:1395:C:O2	21:i1:1474:A:N6	2.45	0.50
21:i1:1569:A:O2'	21:i1:1626:C:O2	2.25	0.50
21:i1:1707:U:O2	37:l1:153:SER:HB3	2.10	0.50
23:B1:27:LYS:HA	23:B1:51:ARG:HH21	1.77	0.50
24:D1:168:VAL:HG12	24:D1:189:MET:HA	1.92	0.50
24:D1:204:LEU:C	24:D1:206:ASP:H	2.20	0.50
26:F1:15:PRO:HG3	32:Q1:57:LEU:HA	1.93	0.50
27:H1:68:GLN:O	27:H1:71:SER:OG	2.25	0.50
28:I1:141:ARG:HH12	26:F6:191:LYS:CD	2.25	0.50
30:L1:27:GLU:HB3	23:B6:24:PRO:CD	2.41	0.50
8:f2:130:VAL:HG13	21:i2:1310:U:C5'	2.20	0.50
9:g2:194:TYR:O	9:g2:211:GLY:HA3	2.12	0.50
10:C2:65:LYS:HA	10:C2:277:HIS:ND1	2.24	0.50
11:G2:147:LEU:HD13	11:G2:148:SER:CB	2.41	0.50
11:G2:200:LYS:O	11:G2:204:GLU:N	2.45	0.50
15:O2:66:ARG:NH2	21:i2:962:A:O3'	2.43	0.50
18:Z2:85:ARG:HH11	21:i2:1596:U:H5	0.62	0.50
20:e2:36:MET:CE	21:i2:553:U:H5''	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:196:C:O2'	21:i2:203:G:N2	2.43	0.50
21:i2:1849:G:C2	37:l2:149:ALA:O	2.64	0.50
33:R2:80:ARG:HH11	33:R2:80:ARG:HG2	1.77	0.50
5:a3:101:PHE:HB3	5:a3:102:ARG:CD	2.42	0.50
9:g3:30:MET:HE3	9:g3:42:MET:HE1	1.93	0.50
9:g3:174:VAL:O	9:g3:188:HIS:HD2	1.95	0.50
13:M3:92:CYS:SG	13:M3:103:VAL:HG22	2.51	0.50
21:i3:598:G:O2'	21:i3:605:A:N1	2.42	0.50
21:i3:1325:G:H1	21:i3:1503:C:H42	1.59	0.50
21:i3:1522:A:N6	31:P3:131:PRO:CB	2.74	0.50
21:i3:1700:C:O2	21:i3:1834:A:N6	2.44	0.50
21:i3:1854:U:H2'	21:i3:1855:G:H8	1.77	0.50
26:F3:123:GLU:OE2	26:F3:197:GLU:HA	2.11	0.50
29:K3:18:GLU:HG3	29:K3:20:VAL:HG22	1.94	0.50
31:P3:18:ARG:HA	34:S3:93:GLY:HA3	1.94	0.50
33:R3:80:ARG:HH11	33:R3:80:ARG:HG2	1.77	0.50
7:d4:22:ARG:NH2	7:d4:36:LEU:O	2.44	0.50
8:f4:100:LEU:HD22	8:f4:103:LEU:HD11	1.94	0.50
8:f4:103:LEU:HD22	13:M4:64:LEU:HD12	1.93	0.50
9:g4:130:LYS:HB3	9:g4:141:THR:HG23	1.94	0.50
19:b4:35:VAL:HG13	19:b4:37:CYS:H	1.75	0.50
21:i4:356:C:OP2	30:L4:105:ARG:NH1	2.20	0.50
21:i4:436:G:OP1	21:i4:471:G:O2'	2.29	0.50
21:i4:535:G:N2	21:i4:548:C:H42	2.09	0.50
25:E4:45:ILE:HG13	25:E4:61:VAL:HG11	1.94	0.50
29:K4:51:SER:O	29:K4:54:SER:OG	2.25	0.50
30:L4:121:GLN:CG	30:L4:153:LYS:CD	2.87	0.50
33:R4:10:LYS:HD3	33:R4:14:ARG:HH22	1.76	0.50
2:U5:49:LYS:C	2:U5:51:LYS:H	2.18	0.50
3:V5:65:SER:O	3:V5:68:SER:OG	2.23	0.50
9:g5:259:TRP:HE1	9:g5:266:ILE:HG13	1.76	0.50
11:G5:50:VAL:HG21	11:G5:111:LEU:HD21	1.93	0.50
14:N5:34:LYS:HB3	14:N5:38:TYR:CE2	2.47	0.50
15:O5:66:ARG:NH2	21:i5:962:A:O3'	2.43	0.50
18:Z5:85:ARG:NH1	21:i5:1596:U:H6	2.03	0.50
21:i5:371:A:OP2	28:I5:10:LYS:HB2	2.12	0.50
21:i5:794:A:N6	21:i5:796:G:O6	2.44	0.50
21:i5:1079:C:O2'	21:i5:1182:A:N1	2.44	0.50
21:i5:1102:G:H2'	21:i5:1103:C:H6	1.76	0.50
21:i5:1781:A:C2'	21:i5:1781:A:N3	2.74	0.50
21:i5:1781:A:N3	21:i5:1781:A:H2'	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g6:68:ASP:OD1	9:g6:69:VAL:N	2.44	0.50
14:N6:34:LYS:HB3	14:N6:38:TYR:CE2	2.47	0.50
18:Z6:85:ARG:HH12	21:i6:1595:U:H3'	1.77	0.50
21:i6:868:G:O2'	21:i6:869:A:OP1	2.28	0.50
21:i6:1373:C:H5'	33:R6:7:LYS:HB2	1.94	0.50
21:i6:1854:U:H2'	21:i6:1855:G:H8	1.77	0.50
26:F6:136:ARG:O	26:F6:203:ASN:CB	2.60	0.50
36:k1:11:VAL:CB	36:k1:180:TYR:CE1	2.95	0.50
36:k3:146:GLY:HA2	36:k3:167:ILE:HG12	1.94	0.50
36:k4:171:ASN:C	36:k4:176:HIS:NE2	2.69	0.50
36:k5:83:ARG:HH22	36:k5:175:TRP:CD1	2.28	0.50
37:l5:126:LYS:HA	37:l5:168:GLY:CA	2.39	0.50
2:U1:17:ILE:HG22	2:U1:18:HIS:N	2.25	0.50
8:f1:105:TYR:CE1	8:f1:131:PHE:CZ	3.00	0.50
8:f1:105:TYR:CD1	8:f1:131:PHE:CE1	2.99	0.50
9:g1:147:HIS:CE1	9:g1:173:LEU:HB2	2.30	0.50
10:C1:106:VAL:HG22	10:C1:128:VAL:HG22	1.94	0.50
14:N1:137:PRO:HD3	30:L1:154:GLN:CD	2.37	0.50
21:i1:335:G:H2'	21:i1:336:A:C8	2.47	0.50
21:i1:1758:G:O2'	21:i1:1774:C:N4	2.44	0.50
23:B1:192:SER:O	23:B1:196:ASP:N	2.45	0.50
24:D1:161:GLY:O	24:D1:164:VAL:HG12	2.12	0.50
28:I1:197:PHE:HA	28:I1:200:ARG:CD	2.41	0.50
33:R1:61:ILE:O	33:R1:73:LEU:CG	2.59	0.50
33:R1:86:PRO:O	33:R1:89:SER:OG	2.15	0.50
34:S1:50:ILE:HD12	34:S1:67:VAL:HG23	1.83	0.50
5:a2:100:ARG:CG	5:a2:100:ARG:NH1	2.73	0.50
8:f2:100:LEU:HD22	8:f2:103:LEU:HD11	1.94	0.50
10:C2:272:HIS:O	10:C2:274:VAL:N	2.42	0.50
14:N2:133:ARG:CG	30:L2:152:LYS:CE	2.89	0.50
15:O2:74:ALA:HB1	15:O2:115:ALA:HB2	1.93	0.50
21:i2:969:U:OP1	21:i2:970:G:O2'	2.23	0.50
28:I2:124:LYS:C	28:I2:125:LYS:HG2	2.36	0.50
32:Q2:54:PRO:HG2	32:Q2:88:ILE:HD11	1.94	0.50
33:R2:10:LYS:HD3	33:R2:14:ARG:HH22	1.76	0.50
5:a3:101:PHE:CB	5:a3:102:ARG:HD2	2.42	0.50
10:C3:64:THR:HA	10:C3:279:ARG:HD2	1.92	0.50
10:C3:65:LYS:HA	10:C3:277:HIS:ND1	2.24	0.50
12:J3:17:ARG:HE	21:i3:3:C:H41	1.60	0.50
14:N3:132:LYS:C	30:L3:152:LYS:NZ	2.69	0.50
15:O3:12:GLU:N	15:O3:14:VAL:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:350:C:O2'	21:i3:383:G:N2	2.43	0.50
21:i3:371:A:OP2	28:I3:10:LYS:HB2	2.12	0.50
21:i3:482:G:N1	21:i3:485:A:OP2	2.45	0.50
21:i3:1521:C:H42	34:S3:137:LYS:CE	2.21	0.50
21:i3:1758:G:O2'	21:i3:1774:C:N4	2.44	0.50
25:E3:191:ARG:HE	25:E3:245:ARG:HD2	1.76	0.50
27:H3:39:GLN:HB3	27:H3:75:ILE:HD11	1.94	0.50
33:R3:69:ILE:H	33:R3:70:SER:HB3	1.76	0.50
34:S3:6:PRO:CD	34:S3:58:GLU:HG2	2.42	0.50
1:T4:71:GLY:N	21:i4:1562:C:OP1	2.42	0.50
4:X4:5:ARG:NH2	21:i4:1159:G:OP2	2.35	0.50
9:g4:186:THR:HA	24:D4:226:GLN:HG3	1.93	0.50
10:C4:145:LYS:CD	21:i4:1348:G:H5'	2.42	0.50
12:J4:23:SER:O	12:J4:27:GLN:N	2.45	0.50
12:J4:78:LEU:HD21	12:J4:97:ILE:HD11	1.93	0.50
17:Y4:20:ARG:HD2	17:Y4:76:TYR:CE1	2.47	0.50
21:i4:1560:U:H2'	21:i4:1561:A:C8	2.47	0.50
26:F4:185:SER:O	26:F4:191:LYS:NZ	2.33	0.50
27:H4:53:VAL:HG11	27:H4:172:THR:HA	1.93	0.50
5:a5:101:PHE:HB3	5:a5:102:ARG:CD	2.42	0.50
11:G5:159:ARG:HH11	21:i5:75:G:H21	1.60	0.50
17:Y5:125:VAL:O	17:Y5:129:LYS:HG3	2.12	0.50
21:i5:61:A:C5'	21:i5:317:C:HO2'	2.09	0.50
21:i5:187:G:C2	21:i5:213:G:N1	2.80	0.50
21:i5:1300:U:C5	31:P5:51:ARG:CD	2.86	0.50
21:i5:1852:C:H5	35:j5:5:TRP:CG	2.29	0.50
22:A5:39:TYR:CE2	33:R5:105:MET:HB3	2.46	0.50
23:B5:27:LYS:HA	23:B5:51:ARG:HH21	1.77	0.50
25:E5:176:ASP:OD1	25:E5:177:THR:N	2.41	0.50
33:R5:28:PHE:HA	33:R5:55:THR:HG21	1.94	0.50
33:R5:60:ARG:NH1	33:R5:60:ARG:CG	2.74	0.50
1:T6:5:THR:OG1	1:T6:6:VAL:N	2.44	0.50
10:C6:210:PRO:HD3	10:C6:236:PHE:HE2	1.75	0.50
11:G6:50:VAL:HG21	11:G6:111:LEU:HD21	1.93	0.50
12:J6:131:ARG:NH1	21:i6:563:G:HO2'	2.10	0.50
13:M6:117:GLU:OE1	13:M6:119:GLN:N	2.36	0.50
18:Z6:85:ARG:NH2	18:Z6:85:ARG:CG	2.73	0.50
20:e6:43:VAL:HG21	21:i6:551:U:O2'	2.12	0.50
21:i6:371:A:OP2	28:I6:10:LYS:HB2	2.12	0.50
21:i6:1244:U:H2'	21:i6:1245:G:H8	1.77	0.50
23:B6:85:LYS:HB2	23:B6:101:HIS:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D6:204:LEU:C	24:D6:206:ASP:H	2.19	0.50
27:H6:53:VAL:HG11	27:H6:172:THR:HA	1.93	0.50
36:k1:11:VAL:HG21	36:k1:180:TYR:CE1	2.47	0.50
36:k1:33:PHE:CD1	36:k1:92:LEU:HG	2.47	0.50
36:k3:149:LYS:HE2	36:k3:165:GLU:OE1	2.12	0.50
37:l1:175:ILE:O	37:l1:175:ILE:HD12	2.12	0.50
5:a1:101:PHE:CB	5:a1:102:ARG:HD2	2.42	0.50
6:c1:23:SER:OG	6:c1:24:GLN:N	2.44	0.50
14:N1:99:ARG:HG2	14:N1:115:LEU:HD11	1.93	0.50
23:B1:179:ASN:HB2	23:B1:183:GLU:HB3	1.94	0.50
26:F1:128:ILE:HD11	26:F1:204:ARG:OXT	2.11	0.50
16:W2:24:GLN:HG3	16:W2:64:ASN:HA	1.94	0.50
17:Y2:88:LYS:HD2	17:Y2:91:LEU:HB2	1.94	0.50
17:Y2:113:ARG:NH1	17:Y2:131:PRO:HB3	2.25	0.50
21:i2:371:A:OP2	28:l2:10:LYS:HB2	2.12	0.50
21:i2:1183:A:H2'	21:i2:1184:G:H8	1.77	0.50
21:i2:1552:G:N3	21:i2:1557:C:N4	2.45	0.50
25:E2:124:CYS:O	25:E2:160:ILE:N	2.29	0.50
25:E2:195:ILE:O	25:E2:197:ASN:N	2.45	0.50
33:R2:60:ARG:CG	33:R2:60:ARG:NH1	2.74	0.50
34:S2:86:ARG:HB3	34:S2:89:ASP:OD1	2.12	0.50
5:a3:99:PRO:HB3	21:i3:1868:U:O4	2.11	0.50
9:g3:292:SER:OG	9:g3:293:ALA:N	2.45	0.50
13:M3:117:GLU:OE1	13:M3:119:GLN:N	2.36	0.50
14:N3:34:LYS:HB3	14:N3:38:TYR:CE2	2.47	0.50
21:i3:1102:G:H2'	21:i3:1103:C:C6	2.47	0.50
21:i3:1182:A:H5''	35:j3:15:ARG:HD2	1.94	0.50
21:i3:1849:G:OP2	37:l3:146:ARG:CZ	2.60	0.50
22:A3:138:SER:HG	22:A3:156:TYR:HD1	1.58	0.50
27:H3:156:VAL:HB	27:H3:187:PHE:CD1	2.47	0.50
30:L3:153:LYS:HD2	30:L3:153:LYS:C	2.36	0.50
32:Q3:112:LEU:HB3	32:Q3:119:LEU:HD13	1.93	0.50
4:X4:11:ARG:NH1	21:i4:399:C:H4'	2.26	0.50
8:f4:105:TYR:CE1	8:f4:131:PHE:CZ	3.00	0.50
8:f4:130:VAL:HG13	21:i4:1310:U:C5'	2.20	0.50
11:G4:189:ARG:CZ	21:i4:330:G:O6	2.60	0.50
17:Y4:88:LYS:HD2	17:Y4:91:LEU:HB2	1.94	0.50
21:i4:795:A:H62	27:H4:109:ARG:NH2	2.10	0.50
21:i4:1170:A:N6	21:i4:1189:A:OP2	2.42	0.50
21:i4:1709:G:OP1	37:l4:151:LYS:CD	2.60	0.50
21:i4:1828:C:O2'	37:l4:155:GLY:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B4:21:VAL:C	30:L5:31:GLU:OE2	2.55	0.50
25:E4:211:LYS:HE2	25:E4:215:GLY:HA2	1.93	0.50
31:P4:115:TYR:H	31:P4:115:TYR:HD2	1.52	0.50
34:S4:105:ASN:HD21	21:i5:1761:U:P	2.20	0.50
11:G5:153:VAL:C	11:G5:155:GLN:N	2.69	0.50
11:G5:200:LYS:O	11:G5:204:GLU:N	2.45	0.50
12:J5:17:ARG:HE	21:i5:3:C:H41	1.60	0.50
12:J5:164:PRO:HG3	21:i5:561:A:O3'	2.11	0.50
21:i5:222:U:H3	21:i5:299:A:H61	1.60	0.50
21:i5:1244:U:H2'	21:i5:1245:G:H8	1.77	0.50
21:i5:1678:A:H2'	21:i5:1679:A:C8	2.46	0.50
23:B5:102:GLY:HA2	23:B5:215:VAL:HG13	1.93	0.50
26:F5:15:PRO:HG3	32:Q5:57:LEU:HA	1.93	0.50
28:I5:79:ILE:HG21	28:I5:170:LYS:HZ2	1.77	0.50
9:g6:301:GLY:HA2	9:g6:307:VAL:HA	1.93	0.50
12:J6:4:ALA:H	12:J6:5:ARG:HB2	1.75	0.50
12:J6:17:ARG:HE	21:i6:3:C:H41	1.60	0.50
13:M6:92:CYS:SG	13:M6:103:VAL:HG22	2.51	0.50
22:A6:111:GLN:HG3	22:A6:112:ILE:HG13	1.94	0.50
36:k3:77:PRO:HB2	36:k3:131:ILE:HD11	1.92	0.50
36:k3:170:LEU:CG	36:k3:171:ASN:N	2.74	0.50
36:k5:145:VAL:C	36:k5:167:ILE:HG13	2.37	0.50
37:l6:126:LYS:HD2	37:l6:167:GLN:HB3	1.93	0.50
10:C1:65:LYS:CG	10:C1:279:ARG:NE	2.75	0.49
21:i1:350:C:O2'	21:i1:383:G:N2	2.43	0.49
21:i1:363:A:N6	21:i1:400:C:O2'	2.45	0.49
22:A1:111:GLN:HG3	22:A1:112:ILE:HG13	1.94	0.49
24:D1:64:ARG:CZ	29:K1:95:ARG:HH21	2.25	0.49
28:I1:158:ILE:CG1	15:O6:63:LYS:HZ2	2.24	0.49
31:P1:18:ARG:HA	34:S1:93:GLY:HA3	1.94	0.49
33:R1:28:PHE:HA	33:R1:55:THR:HG21	1.94	0.49
8:f2:92:LYS:C	21:i2:1304:U:C4'	2.64	0.49
9:g2:285:GLN:HE21	9:g2:303:THR:HG21	1.77	0.49
21:i2:500:A:H3'	21:i2:501:C:C6	2.47	0.49
21:i2:1553:C:H4'	21:i2:1554:C:H5	1.77	0.49
29:K2:4:PRO:HG2	29:K2:8:ARG:HE	1.77	0.49
34:S2:26:ILE:O	34:S2:30:ILE:HG12	2.11	0.49
1:T3:35:ASP:CB	34:S3:46:ARG:NE	2.61	0.49
4:X3:48:LYS:NZ	21:i3:483:C:H5''	2.27	0.49
9:g3:186:THR:HA	24:D3:226:GLN:HG3	1.94	0.49
10:C3:74:LYS:CE	10:C3:272:HIS:HB3	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G3:218:LYS:O	11:G3:221:LYS:NZ	2.27	0.49
14:N3:84:LEU:CB	14:N3:135:LEU:CD2	2.90	0.49
15:O3:74:ALA:HB1	15:O3:115:ALA:HB2	1.93	0.49
21:i3:1183:A:H2'	21:i3:1184:G:H8	1.77	0.49
21:i3:1377:U:OP2	22:A3:102:ARG:HG3	2.12	0.49
21:i3:1560:U:H2'	21:i3:1561:A:C8	2.47	0.49
32:Q3:54:PRO:HG2	32:Q3:88:ILE:HD11	1.94	0.49
33:R3:28:PHE:HA	33:R3:55:THR:HG21	1.94	0.49
6:c4:21:THR:O	6:c4:29:GLN:NE2	2.44	0.49
6:c4:44:ARG:HA	6:c4:64:GLU:O	2.12	0.49
9:g4:194:TYR:O	9:g4:211:GLY:HA3	2.12	0.49
11:G4:200:LYS:O	11:G4:204:GLU:N	2.45	0.49
13:M4:48:HIS:CB	13:M4:114:TYR:OH	2.60	0.49
15:O4:128:ARG:HH12	15:O4:130:GLU:HB2	1.76	0.49
17:Y4:15:ASN:HD21	17:Y4:20:ARG:HH21	1.60	0.49
18:Z4:85:ARG:CZ	21:i4:1596:U:C5	2.90	0.49
21:i4:363:A:N6	21:i4:400:C:O2'	2.45	0.49
21:i4:371:A:OP2	28:I4:10:LYS:HB2	2.12	0.49
22:A4:76:VAL:HG13	22:A4:123:VAL:HG23	1.94	0.49
23:B4:198:GLU:O	23:B4:202:GLN:HB2	2.12	0.49
2:U5:17:ILE:HG22	2:U5:18:HIS:N	2.25	0.49
6:c5:21:THR:O	6:c5:29:GLN:NE2	2.44	0.49
7:d5:29:GLY:O	7:d5:40:ARG:HG3	2.12	0.49
9:g5:186:THR:HA	24:D5:226:GLN:HG3	1.94	0.49
10:C5:145:LYS:HG3	21:i5:1348:G:H4'	1.94	0.49
12:J5:23:SER:O	12:J5:27:GLN:N	2.45	0.49
12:J5:131:ARG:NH1	21:i5:563:G:HO2'	2.10	0.49
14:N5:129:TYR:HA	14:N5:134:VAL:CG2	2.35	0.49
18:Z5:93:SER:N	18:Z5:97:ILE:HG21	2.26	0.49
20:e5:43:VAL:HG11	21:i5:551:U:C3'	2.41	0.49
21:i5:363:A:N6	21:i5:400:C:O2'	2.45	0.49
21:i5:1199:A:H2	21:i5:1356:G:H22	1.60	0.49
21:i5:1280:G:H1'	21:i5:1318:G:H22	1.77	0.49
23:B5:32:ASP:HB2	23:B5:46:LYS:HG2	1.94	0.49
30:L5:152:LYS:CE	30:L5:154:GLN:NE2	2.74	0.49
9:g6:285:GLN:HE21	9:g6:303:THR:HG21	1.77	0.49
11:G6:200:LYS:O	11:G6:204:GLU:N	2.44	0.49
14:N6:99:ARG:HG2	14:N6:115:LEU:HD11	1.93	0.49
14:N6:122:ILE:O	14:N6:126:ALA:N	2.33	0.49
18:Z6:83:LEU:HD21	34:S6:55:ARG:NH2	2.21	0.49
21:i6:128:U:C4'	21:i6:214:U:O2'	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1102:G:H2'	21:i6:1103:C:C6	2.47	0.49
21:i6:1183:A:H2'	21:i6:1184:G:H8	1.77	0.49
21:i6:1395:C:H3'	21:i6:1396:A:H5''	1.93	0.49
21:i6:1560:U:H2'	21:i6:1561:A:C8	2.47	0.49
25:E6:191:ARG:HE	25:E6:245:ARG:HD2	1.77	0.49
26:F6:128:ILE:N	26:F6:137:GLN:OE1	2.35	0.49
36:k5:180:TYR:O	36:k5:181:LYS:C	2.53	0.49
37:l2:127:TYR:CD2	37:l2:169:ASP:HB3	2.47	0.49
37:l3:127:TYR:CD2	37:l3:169:ASP:HB3	2.47	0.49
37:l3:182:TRP:HE3	37:l3:183:PRO:CB	2.26	0.49
4:X1:48:LYS:NZ	21:i1:483:C:H5''	2.28	0.49
5:a1:101:PHE:HB3	5:a1:102:ARG:CD	2.42	0.49
8:f1:100:LEU:HD22	8:f1:103:LEU:HD11	1.94	0.49
8:f1:105:TYR:CE1	8:f1:131:PHE:CB	2.85	0.49
9:g1:48:ASP:HB2	9:g1:51:ASN:O	2.12	0.49
11:G1:199:THR:HG21	21:i1:126:G:H8	1.77	0.49
13:M1:117:GLU:OE1	13:M1:119:GLN:N	2.36	0.49
15:O1:34:PHE:CD1	15:O1:98:ARG:HD3	2.47	0.49
17:Y1:20:ARG:HD2	17:Y1:76:TYR:CE1	2.47	0.49
21:i1:296:U:O2'	25:E1:130:PHE:O	2.23	0.49
23:B1:22:VAL:HA	23:B1:27:LYS:NZ	2.28	0.49
31:P1:34:MET:HB3	31:P1:42:ARG:HG2	1.92	0.49
1:T2:71:GLY:N	21:i2:1562:C:OP1	2.42	0.49
4:X2:81:ILE:HG21	4:X2:120:PHE:CD2	2.47	0.49
5:a2:101:PHE:CB	5:a2:102:ARG:HD2	2.42	0.49
7:d2:29:GLY:O	7:d2:40:ARG:HG3	2.12	0.49
17:Y2:15:ASN:HD21	17:Y2:20:ARG:HH21	1.60	0.49
18:Z2:85:ARG:HH12	21:i2:1595:U:H3'	1.76	0.49
20:e2:28:LYS:HG3	21:i2:524:U:O2'	2.11	0.49
21:i2:355:G:OP1	30:L2:105:ARG:NH1	2.45	0.49
21:i2:1395:C:H3'	21:i2:1396:A:H5''	1.93	0.49
23:B2:32:ASP:HB2	23:B2:46:LYS:HG2	1.95	0.49
23:B2:192:SER:O	23:B2:196:ASP:N	2.45	0.49
33:R2:32:LYS:HZ1	33:R2:47:ARG:HH21	1.60	0.49
4:X3:81:ILE:HG21	4:X3:120:PHE:CD2	2.47	0.49
8:f3:100:LEU:HD22	8:f3:103:LEU:HD11	1.94	0.49
18:Z3:85:ARG:NH2	18:Z3:85:ARG:CG	2.73	0.49
21:i3:184:G:H2'	21:i3:185:G:H5'	1.94	0.49
21:i3:1373:C:H5'	33:R3:7:LYS:HB2	1.94	0.49
23:B3:179:ASN:HB2	23:B3:183:GLU:HB3	1.94	0.49
25:E3:176:ASP:OD1	25:E3:177:THR:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C4:166:ARG:O	10:C4:181:PRO:HD3	2.11	0.49
11:G4:153:VAL:C	11:G4:155:GLN:N	2.69	0.49
21:i4:57:U:O2'	21:i4:499:G:N3	2.44	0.49
21:i4:187:G:H8	21:i4:187:G:O5'	1.95	0.49
21:i4:689:U:C6	21:i4:689:U:C5'	2.95	0.49
21:i4:1170:A:H5'	21:i4:1172:U:H1'	1.93	0.49
21:i4:1244:U:H2'	21:i4:1245:G:H8	1.77	0.49
21:i4:1325:G:H1	21:i4:1503:C:H42	1.60	0.49
21:i4:1854:U:H2'	21:i4:1855:G:H8	1.77	0.49
22:A4:89:LYS:HZ1	33:R4:82:ASP:CB	2.18	0.49
23:B4:32:ASP:OD1	23:B4:33:VAL:N	2.45	0.49
26:F4:182:LYS:O	26:F4:184:SER:N	2.40	0.49
29:K4:4:PRO:HG2	29:K4:8:ARG:HE	1.77	0.49
4:X5:60:LYS:HB3	4:X5:62:PRO:HD2	1.93	0.49
9:g5:44:LYS:HB3	9:g5:46:THR:HG23	1.93	0.49
9:g5:194:TYR:O	9:g5:211:GLY:HA3	2.12	0.49
17:Y5:20:ARG:HD2	17:Y5:76:TYR:CE1	2.47	0.49
21:i5:316:G:H21	21:i5:335:G:N2	2.07	0.49
21:i5:368:U:C2	36:k4:109:ALA:HA	2.47	0.49
21:i5:1395:C:O2	21:i5:1474:A:N6	2.45	0.49
21:i5:1693:G:H21	21:i5:1834:A:H1'	1.75	0.49
22:A5:108:PHE:HB2	22:A5:136:GLU:HB3	1.94	0.49
22:A5:111:GLN:HG3	22:A5:112:ILE:HG13	1.94	0.49
27:H5:156:VAL:HB	27:H5:187:PHE:CD1	2.47	0.49
4:X6:48:LYS:H	21:i6:483:C:H5'	1.77	0.49
11:G6:199:THR:HG21	21:i6:126:G:H8	1.77	0.49
16:W6:24:GLN:HG3	16:W6:64:ASN:HA	1.93	0.49
24:D6:64:ARG:HG3	29:K6:95:ARG:HH22	1.77	0.49
27:H6:39:GLN:HB3	27:H6:75:ILE:HD11	1.94	0.49
36:k3:82:LEU:CD2	36:k3:142:ALA:CB	2.90	0.49
36:k5:39:TRP:CD1	36:k5:90:PHE:HZ	2.28	0.49
37:l4:126:LYS:HD2	37:l4:167:GLN:HB3	1.93	0.49
3:V1:76:ASP:OD1	3:V1:77:GLY:N	2.45	0.49
9:g1:23:THR:HG21	9:g1:292:SER:HA	1.93	0.49
12:J1:17:ARG:HE	21:i1:3:C:H41	1.60	0.49
12:J1:23:SER:O	12:J1:27:GLN:N	2.45	0.49
15:O1:66:ARG:NH2	21:i1:962:A:O3'	2.43	0.49
20:e1:28:LYS:CB	21:i1:525:A:OP1	2.60	0.49
21:i1:355:G:OP1	30:L1:105:ARG:NH1	2.44	0.49
23:B1:198:GLU:O	23:B1:202:GLN:HB2	2.12	0.49
4:X2:48:LYS:NZ	21:i2:483:C:H5''	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a2:101:PHE:HB3	5:a2:102:ARG:CD	2.42	0.49
10:C2:166:ARG:O	10:C2:181:PRO:HD3	2.11	0.49
17:Y2:125:VAL:O	17:Y2:129:LYS:HG3	2.12	0.49
21:i2:388:U:C4	21:i2:389:A:N7	2.81	0.49
21:i2:690:G:C6	21:i2:738:C:N4	2.81	0.49
21:i2:696:G:O6	21:i2:734:C:C5'	2.52	0.49
21:i2:735:C:C3'	21:i2:735:C:C6	2.96	0.49
22:A2:108:PHE:HB2	22:A2:136:GLU:HB3	1.94	0.49
26:F2:38:TYR:HD1	26:F2:144:LEU:HD13	1.77	0.49
27:H2:39:GLN:HB3	27:H2:75:ILE:HD11	1.94	0.49
27:H2:156:VAL:HB	27:H2:187:PHE:CD1	2.48	0.49
33:R2:65:PRO:HB2	33:R2:73:LEU:CD2	2.22	0.49
2:U3:117:ALA:O	2:U3:118:ASP:HB2	2.13	0.49
17:Y3:88:LYS:HD2	17:Y3:91:LEU:HB2	1.94	0.49
21:i3:355:G:OP1	30:L3:105:ARG:NH1	2.44	0.49
21:i3:363:A:N6	21:i3:400:C:O2'	2.45	0.49
21:i3:535:G:N2	21:i3:548:C:H42	2.09	0.49
21:i3:878:G:N3	21:i3:878:G:H2'	2.27	0.49
21:i3:1137:U:O2'	21:i3:1138:C:OP1	2.29	0.49
21:i3:1553:C:H4'	21:i3:1554:C:H5	1.78	0.49
23:B3:85:LYS:HB2	23:B3:101:HIS:HB3	1.93	0.49
25:E3:195:ILE:O	25:E3:197:ASN:N	2.46	0.49
5:a4:101:PHE:CB	5:a4:102:ARG:HD2	2.42	0.49
5:a4:102:ARG:N	5:a4:102:ARG:CD	2.74	0.49
9:g4:44:LYS:HB3	9:g4:46:THR:HG23	1.93	0.49
9:g4:285:GLN:HE21	9:g4:303:THR:HG21	1.77	0.49
9:g4:301:GLY:HA2	9:g4:307:VAL:HA	1.93	0.49
10:C4:244:ILE:HA	10:C4:247:THR:HG23	1.95	0.49
11:G4:32:MET:HA	11:G4:52:ILE:HG13	1.94	0.49
12:J4:131:ARG:NH1	21:i4:563:G:HO2'	2.10	0.49
13:M4:36:ARG:HH12	21:i4:1310:U:H5	1.20	0.49
14:N4:34:LYS:HB3	14:N4:38:TYR:CE2	2.47	0.49
21:i4:1102:G:H2'	21:i4:1103:C:H6	1.76	0.49
21:i4:1280:G:H1'	21:i4:1318:G:H22	1.77	0.49
21:i4:1395:C:O2	21:i4:1474:A:N6	2.45	0.49
22:A4:108:PHE:HB2	22:A4:136:GLU:HB3	1.94	0.49
26:F4:15:PRO:HG3	32:Q4:57:LEU:HA	1.93	0.49
26:F4:158:ALA:HB2	26:F4:173:LEU:HB3	1.94	0.49
28:I4:8:TRP:HZ3	28:I4:20:PRO:HB3	1.77	0.49
32:Q4:54:PRO:HG2	32:Q4:88:ILE:HD11	1.94	0.49
33:R4:61:ILE:HG22	33:R4:73:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V5:76:ASP:OD1	3:V5:77:GLY:N	2.45	0.49
10:C5:166:ARG:O	10:C5:181:PRO:HD3	2.11	0.49
13:M5:36:ARG:HE	13:M5:40:LYS:NZ	2.08	0.49
20:e5:35:ARG:HH12	21:i5:526:A:C5'	2.20	0.49
21:i5:368:U:N3	36:k4:109:ALA:HA	2.26	0.49
21:i5:440:G:O2'	21:i5:1737:G:H1'	2.13	0.49
21:i5:890:U:O4	21:i5:896:U:O2'	2.29	0.49
21:i5:1208:A:C6	21:i5:1209:A:C6	3.01	0.49
21:i5:1395:C:H3'	21:i5:1396:A:H5''	1.94	0.49
21:i5:1816:G:N2	35:j5:20:MET:HE3	2.27	0.49
22:A5:190:SER:O	22:A5:192:GLU:N	2.40	0.49
23:B5:192:SER:O	23:B5:196:ASP:N	2.45	0.49
23:B5:198:GLU:O	23:B5:202:GLN:HB2	2.12	0.49
26:F5:128:ILE:HD11	26:F5:204:ARG:OXT	2.11	0.49
32:Q5:112:LEU:HB3	32:Q5:119:LEU:HD13	1.93	0.49
33:R5:77:GLU:CG	33:R5:81:ARG:HG3	2.42	0.49
34:S5:128:GLY:O	34:S5:144:ARG:NH2	2.45	0.49
2:U6:17:ILE:HG22	2:U6:18:HIS:N	2.25	0.49
4:X6:48:LYS:NZ	21:i6:483:C:H5''	2.27	0.49
7:d6:29:GLY:O	7:d6:40:ARG:HG3	2.12	0.49
21:i6:1552:G:N3	21:i6:1557:C:N4	2.45	0.49
23:B6:179:ASN:HB2	23:B6:183:GLU:HB3	1.94	0.49
23:B6:198:GLU:O	23:B6:202:GLN:HB2	2.12	0.49
27:H6:156:VAL:HB	27:H6:187:PHE:CD1	2.47	0.49
29:K6:43:LEU:HG	29:K6:44:HIS:ND1	2.28	0.49
33:R6:80:ARG:HH11	33:R6:80:ARG:HG2	1.77	0.49
36:k2:82:LEU:CD2	36:k2:142:ALA:CB	2.88	0.49
37:l6:126:LYS:CA	37:l6:168:GLY:HA2	2.40	0.49
17:Y1:125:VAL:O	17:Y1:129:LYS:HG3	2.12	0.49
21:i1:371:A:OP2	28:I1:10:LYS:HB2	2.12	0.49
28:I1:200:ARG:CA	21:i6:970:G:H22	2.25	0.49
34:S1:6:PRO:CD	34:S1:58:GLU:HG2	2.42	0.49
34:S1:86:ARG:HB3	34:S1:89:ASP:OD1	2.12	0.49
34:S1:128:GLY:O	34:S1:144:ARG:NH2	2.45	0.49
4:X2:60:LYS:HB3	4:X2:62:PRO:HD2	1.93	0.49
12:J2:131:ARG:NH1	21:i2:563:G:HO2'	2.10	0.49
17:Y2:20:ARG:NH1	17:Y2:22:GLN:OE1	2.44	0.49
21:i2:482:G:N1	21:i2:485:A:OP2	2.45	0.49
21:i2:1022:U:H5'	21:i2:1023:A:C8	2.48	0.49
21:i2:1102:G:H2'	21:i2:1103:C:C6	2.47	0.49
21:i2:1139:C:H5	21:i2:1149:A:H62	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1244:U:H2'	21:i2:1245:G:H8	1.77	0.49
21:i2:1860:A:O2'	21:i2:1861:G:OP2	2.27	0.49
22:A2:111:GLN:HG3	22:A2:112:ILE:HG13	1.94	0.49
23:B2:198:GLU:O	23:B2:202:GLN:HB2	2.12	0.49
9:g3:194:TYR:O	9:g3:211:GLY:HA3	2.12	0.49
11:G3:200:LYS:O	11:G3:204:GLU:N	2.45	0.49
14:N3:129:TYR:C	14:N3:134:VAL:HG23	2.26	0.49
15:O3:17:LEU:CD2	15:O3:18:GLY:H	2.22	0.49
16:W3:80:ASP:OD1	16:W3:124:LYS:HG2	2.13	0.49
21:i3:1240:A:C2	31:P3:100:LYS:CB	2.96	0.49
21:i3:1395:C:O2	21:i3:1474:A:N6	2.45	0.49
23:B3:192:SER:O	23:B3:196:ASP:N	2.45	0.49
2:U4:17:ILE:HG22	2:U4:18:HIS:N	2.25	0.49
9:g4:48:ASP:HB2	9:g4:51:ASN:O	2.12	0.49
9:g4:174:VAL:O	9:g4:188:HIS:HD2	1.95	0.49
12:J4:181:GLY:O	12:J4:185:ALA:N	2.46	0.49
18:Z4:75:GLU:CD	21:i5:193:C:H5'	2.38	0.49
21:i4:388:U:C4	21:i4:389:A:N7	2.81	0.49
21:i4:693:A:N6	21:i4:738:C:O2	2.45	0.49
21:i4:878:G:N3	21:i4:878:G:H2'	2.28	0.49
21:i4:1069:U:P	36:k4:18:LYS:CE	3.00	0.49
21:i4:1843:G:OP2	35:j4:4:LYS:CE	2.60	0.49
23:B4:27:LYS:HA	23:B4:51:ARG:HH21	1.77	0.49
27:H4:39:GLN:HB3	27:H4:75:ILE:HD11	1.94	0.49
33:R4:80:ARG:HH11	33:R4:80:ARG:HG2	1.77	0.49
9:g5:48:ASP:HB2	9:g5:51:ASN:O	2.12	0.49
10:C5:106:VAL:HG22	10:C5:128:VAL:HG22	1.94	0.49
12:J5:122:SER:CB	21:i5:527:C:OP1	2.60	0.49
14:N5:133:ARG:CG	30:L5:154:GLN:HG3	2.42	0.49
21:i5:196:C:O2'	21:i5:203:G:N2	2.44	0.49
21:i5:1560:U:H2'	21:i5:1561:A:C8	2.47	0.49
22:A5:76:VAL:HG13	22:A5:123:VAL:HG23	1.94	0.49
23:B5:179:ASN:HB2	23:B5:183:GLU:HB3	1.94	0.49
25:E5:191:ARG:HE	25:E5:245:ARG:HD2	1.76	0.49
26:F5:38:TYR:HD1	26:F5:144:LEU:HD13	1.77	0.49
26:F5:76:MET:HB2	26:F5:89:THR:HB	1.95	0.49
27:H5:105:THR:OG1	27:H5:106:ARG:N	2.45	0.49
31:P5:15:PHE:HE2	31:P5:112:ILE:HD13	1.74	0.49
3:V6:76:ASP:OD1	3:V6:77:GLY:N	2.45	0.49
9:g6:174:VAL:O	9:g6:188:HIS:HD2	1.95	0.49
17:Y6:88:LYS:HD2	17:Y6:91:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:314:U:O2	21:i6:337:C:N3	2.45	0.49
21:i6:1621:U:H4'	31:P6:115:TYR:HH	1.75	0.49
22:A6:76:VAL:HG13	22:A6:123:VAL:HG23	1.94	0.49
23:B6:32:ASP:OD1	23:B6:33:VAL:N	2.45	0.49
23:B6:32:ASP:HB2	23:B6:46:LYS:HG2	1.94	0.49
26:F6:185:SER:O	26:F6:191:LYS:NZ	2.33	0.49
36:k6:108:GLY:C	36:k6:166:ASN:ND2	2.71	0.49
37:l4:178:ILE:CG1	37:l4:190:ILE:HG21	2.34	0.49
2:U1:117:ALA:O	2:U1:118:ASP:HB2	2.13	0.49
6:c1:44:ARG:HA	6:c1:64:GLU:O	2.13	0.49
8:f1:110:GLU:O	17:Y2:113:ARG:NH2	2.43	0.49
9:g1:44:LYS:HB3	9:g1:46:THR:HG23	1.93	0.49
9:g1:174:VAL:O	9:g1:188:HIS:HD2	1.96	0.49
11:G1:50:VAL:HG21	11:G1:111:LEU:HD21	1.93	0.49
11:G1:65:GLN:NE2	21:i1:1746:U:H1'	2.27	0.49
18:Z1:85:ARG:NH2	18:Z1:85:ARG:CG	2.73	0.49
21:i1:1022:U:H5'	21:i1:1023:A:C8	2.48	0.49
21:i1:1102:G:H2'	21:i1:1103:C:C6	2.46	0.49
21:i1:1373:C:H5'	33:R1:7:LYS:HB2	1.94	0.49
23:B1:32:ASP:HB2	23:B1:46:LYS:HG2	1.94	0.49
26:F1:76:MET:HB2	26:F1:89:THR:HB	1.95	0.49
27:H1:39:GLN:HB3	27:H1:75:ILE:HD11	1.94	0.49
33:R1:80:ARG:HH11	33:R1:80:ARG:HG2	1.77	0.49
2:U2:44:LYS:HA	2:U2:47:ASN:HB3	1.94	0.49
7:d2:22:ARG:NH2	7:d2:36:LEU:O	2.44	0.49
9:g2:44:LYS:HB3	9:g2:46:THR:HG23	1.93	0.49
9:g2:48:ASP:HB2	9:g2:51:ASN:O	2.12	0.49
15:O2:63:LYS:NZ	28:I4:121:LEU:CD1	2.76	0.49
21:i2:103:A:N6	21:i2:356:C:O4'	2.46	0.49
21:i2:311:C:H4'	21:i2:339:A:H4'	1.94	0.49
21:i2:691:G:C5'	21:i2:692:G:H5''	2.42	0.49
21:i2:890:U:O4	21:i2:896:U:O2'	2.29	0.49
21:i2:1240:A:C2	31:P2:100:LYS:CB	2.96	0.49
21:i2:1373:C:H5'	33:R2:7:LYS:HB2	1.94	0.49
26:F2:76:MET:HB2	26:F2:89:THR:HB	1.95	0.49
31:P2:18:ARG:HA	34:S2:93:GLY:HA3	1.94	0.49
11:G3:199:THR:HG21	21:i3:126:G:H8	1.77	0.49
13:M3:42:LEU:HG	13:M3:74:ILE:HD13	1.94	0.49
17:Y3:125:VAL:O	17:Y3:129:LYS:HG3	2.12	0.49
21:i3:1244:U:H2'	21:i3:1245:G:H8	1.77	0.49
26:F3:182:LYS:HZ3	21:i6:200:G:H5''	0.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S3:86:ARG:HB3	34:S3:89:ASP:OD1	2.12	0.49
4:X4:48:LYS:NZ	21:i4:483:C:H5''	2.28	0.49
4:X4:70:VAL:O	4:X4:83:ALA:N	2.37	0.49
4:X4:81:ILE:HG21	4:X4:120:PHE:CD2	2.46	0.49
5:a4:101:PHE:HB3	5:a4:102:ARG:CD	2.42	0.49
17:Y4:125:VAL:O	17:Y4:129:LYS:HG3	2.12	0.49
19:b4:36:LYS:CG	19:b4:78:SER:OG	2.60	0.49
21:i4:76:U:O2'	21:i4:78:C:OP2	2.25	0.49
21:i4:305:U:O2'	21:i4:309:G:OP2	2.30	0.49
21:i4:1022:U:H5'	21:i4:1023:A:C8	2.48	0.49
21:i4:1619:A:H4'	31:P4:44:ARG:NH2	2.27	0.49
22:A4:111:GLN:HG3	22:A4:112:ILE:HG13	1.94	0.49
23:B4:192:SER:O	23:B4:196:ASP:N	2.45	0.49
24:D4:64:ARG:HG3	29:K4:95:ARG:HH22	1.76	0.49
25:E4:195:ILE:O	25:E4:197:ASN:N	2.46	0.49
26:F4:76:MET:HB2	26:F4:89:THR:HB	1.95	0.49
4:X5:48:LYS:H	21:i5:483:C:H5'	1.78	0.49
9:g5:285:GLN:HE21	9:g5:303:THR:HG21	1.77	0.49
11:G5:37:ALA:HA	11:G5:49:VAL:HA	1.95	0.49
11:G5:121:ILE:O	11:G5:125:THR:OG1	2.30	0.49
14:N5:99:ARG:HG2	14:N5:115:LEU:HD11	1.93	0.49
21:i5:190:G:H22	21:i5:208:G:H3'	1.78	0.49
21:i5:333:G:H8	21:i5:333:G:O5'	1.96	0.49
21:i5:556:U:O2'	21:i5:558:G:OP2	2.30	0.49
21:i5:1139:C:H5	21:i5:1149:A:H62	1.61	0.49
21:i5:1553:C:H4'	21:i5:1554:C:H5	1.78	0.49
23:B5:85:LYS:HB2	23:B5:101:HIS:HB3	1.93	0.49
24:D5:204:LEU:C	24:D5:206:ASP:H	2.19	0.49
28:I5:197:PHE:HA	28:I5:200:ARG:CD	2.41	0.49
9:g6:60:ARG:H	32:Q6:97:GLN:NE2	2.11	0.49
10:C6:189:GLY:CA	21:i6:1355:C:C1'	2.90	0.49
12:J6:23:SER:O	12:J6:27:GLN:N	2.45	0.49
17:Y6:20:ARG:HD2	17:Y6:76:TYR:CE1	2.47	0.49
17:Y6:58:PHE:HZ	25:E6:56:LEU:HD11	1.76	0.49
21:i6:388:U:N3	21:i6:389:A:N7	2.60	0.49
21:i6:878:G:N3	21:i6:878:G:H2'	2.27	0.49
21:i6:1139:C:H5	21:i6:1149:A:H62	1.61	0.49
31:P6:18:ARG:HA	34:S6:93:GLY:HA3	1.94	0.49
33:R6:10:LYS:HD3	33:R6:14:ARG:HH22	1.76	0.49
36:k1:79:TYR:HD1	36:k1:131:ILE:HG21	1.77	0.49
36:k4:86:HIS:CD2	36:k4:142:ALA:H	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l3:126:LYS:HA	37:l3:168:GLY:CA	2.40	0.49
37:l3:152:PHE:HE1	37:l3:173:ASP:OD1	1.92	0.49
37:l4:126:LYS:CA	37:l4:168:GLY:HA2	2.40	0.49
37:l4:175:ILE:O	37:l4:175:ILE:HD12	2.12	0.49
37:l5:181:LYS:CB	37:l5:184:GLU:CD	2.86	0.49
15:O1:128:ARG:HH12	15:O1:130:GLU:HB2	1.76	0.49
20:e1:45:VAL:CB	21:i1:535:G:C2'	2.63	0.49
21:i1:103:A:N6	21:i1:356:C:O4'	2.46	0.49
21:i1:555:A:N7	21:i1:557:U:H5	2.09	0.49
21:i1:690:G:N3	21:i1:690:G:C5'	2.73	0.49
21:i1:890:U:O4	21:i1:896:U:O2'	2.29	0.49
23:B1:85:LYS:HB2	23:B1:101:HIS:HB3	1.94	0.49
26:F1:35:LEU:HD21	26:F1:146:ARG:HD3	1.94	0.49
4:X2:48:LYS:H	21:i2:483:C:H5'	1.78	0.49
12:J2:23:SER:O	12:J2:27:GLN:N	2.45	0.49
13:M2:36:ARG:HE	13:M2:40:LYS:NZ	2.08	0.49
14:N2:99:ARG:HG2	14:N2:115:LEU:HD11	1.93	0.49
21:i2:217:A:H2'	21:i2:218:U:H5'	1.95	0.49
21:i2:878:G:H2'	21:i2:878:G:N3	2.28	0.49
21:i2:1395:C:O2	21:i2:1474:A:N6	2.45	0.49
21:i2:1560:U:H2'	21:i2:1561:A:C8	2.47	0.49
22:A2:210:ILE:CG1	22:A2:211:GLU:N	2.73	0.49
25:E2:191:ARG:HE	25:E2:245:ARG:HD2	1.76	0.49
9:g3:60:ARG:H	32:Q3:97:GLN:NE2	2.11	0.49
10:C3:65:LYS:CG	10:C3:279:ARG:HE	2.11	0.49
11:G3:37:ALA:HA	11:G3:49:VAL:HA	1.95	0.49
12:J3:23:SER:O	12:J3:27:GLN:N	2.45	0.49
12:J3:172:ARG:HD3	21:i3:562:U:C5	2.48	0.49
17:Y3:20:ARG:HD2	17:Y3:76:TYR:CE1	2.47	0.49
19:b3:74:THR:O	19:b3:76:GLY:N	2.46	0.49
21:i3:57:U:O2'	21:i3:499:G:N3	2.44	0.49
21:i3:190:G:H22	21:i3:208:G:H3'	1.78	0.49
21:i3:890:U:O4	21:i3:896:U:O2'	2.29	0.49
21:i3:1622:U:OP2	21:i3:1623:A:O2'	2.26	0.49
21:i3:1699:A:H8	21:i3:1699:A:O5'	1.96	0.49
24:D3:64:ARG:HD3	29:K3:95:ARG:NH2	2.24	0.49
33:R3:77:GLU:CG	33:R3:81:ARG:HG3	2.42	0.49
12:J4:172:ARG:HD3	21:i4:562:U:C5	2.48	0.49
21:i4:186:C:H2'	21:i4:187:G:C8	2.48	0.49
21:i4:222:U:H3	21:i4:299:A:H61	1.60	0.49
29:K4:43:LEU:HG	29:K4:44:HIS:ND1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C5:244:ILE:HA	10:C5:247:THR:HG23	1.94	0.49
15:O5:128:ARG:HH12	15:O5:130:GLU:HB2	1.76	0.49
21:i5:355:G:OP1	30:L5:105:ARG:NH1	2.45	0.49
21:i5:735:C:C3'	21:i5:735:C:C6	2.95	0.49
21:i5:980:A:O2'	21:i5:981:A:OP1	2.28	0.49
21:i5:1392:U:H2'	21:i5:1393:G:C8	2.48	0.49
26:F5:158:ALA:HB2	26:F5:173:LEU:HB3	1.95	0.49
26:F5:182:LYS:O	26:F5:184:SER:N	2.41	0.49
32:Q5:34:VAL:N	32:Q5:37:ARG:O	2.25	0.49
33:R5:21:TYR:HE2	33:R5:72:LYS:HD3	1.70	0.49
1:T6:36:THR:OG1	34:S6:80:PRO:HG2	2.13	0.49
5:a6:79:ILE:HG13	5:a6:84:VAL:HG23	1.93	0.49
9:g6:242:SER:N	9:g6:246:TYR:O	2.44	0.49
11:G6:37:ALA:HA	11:G6:49:VAL:HA	1.95	0.49
11:G6:137:ARG:HG3	21:i6:170:A:H5'	1.95	0.49
20:e6:48:THR:HA	20:e6:49:PHE:CB	2.30	0.49
21:i6:211:G:N1	21:i6:212:C:O2	2.46	0.49
21:i6:337:C:O2'	21:i6:339:A:OP1	2.24	0.49
21:i6:748:C:OP1	21:i6:796:G:N1	2.35	0.49
21:i6:1280:G:H1'	21:i6:1318:G:H22	1.77	0.49
26:F6:76:MET:HB2	26:F6:89:THR:HB	1.95	0.49
29:K6:15:LEU:HD21	29:K6:71:LEU:HD11	1.95	0.49
36:k3:96:GLN:HE22	36:k3:122:LYS:HD3	1.78	0.49
36:k4:170:LEU:HD21	36:k4:171:ASN:OD1	2.13	0.49
36:k6:171:ASN:CA	36:k6:176:HIS:NE2	2.76	0.49
36:k6:178:LYS:HG2	36:k6:179:THR:HG23	1.95	0.49
37:l1:181:LYS:CB	37:l1:184:GLU:CD	2.86	0.49
37:l6:127:TYR:CD2	37:l6:169:ASP:HB3	2.48	0.49
37:l6:174:ILE:HG23	37:l6:175:ILE:N	2.26	0.49
4:X1:48:LYS:H	21:i1:483:C:H5'	1.78	0.49
13:M1:42:LEU:HG	13:M1:74:ILE:HD13	1.95	0.49
14:N1:34:LYS:HB3	14:N1:38:TYR:CE2	2.47	0.49
21:i1:115:U:O2'	21:i1:381:C:O2	2.28	0.49
21:i1:1139:C:H5	21:i1:1149:A:H62	1.61	0.49
22:A1:76:VAL:HG13	22:A1:123:VAL:HG23	1.94	0.49
25:E1:195:ILE:O	25:E1:197:ASN:N	2.46	0.49
26:F1:123:GLU:OE2	26:F1:197:GLU:HA	2.11	0.49
26:F1:127:ARG:NE	26:F1:128:ILE:HG23	2.17	0.49
27:H1:18:GLU:HG2	27:H1:19:PHE:H	1.78	0.49
27:H1:88:SER:O	27:H1:90:LYS:N	2.43	0.49
27:H1:156:VAL:HB	27:H1:187:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I1:205:ARG:HA	36:k6:56:HIS:ND1	2.27	0.49
30:L1:35:ARG:NE	30:L1:50:ALA:O	2.45	0.49
6:c2:44:ARG:HA	6:c2:64:GLU:O	2.12	0.49
11:G2:77:LEU:N	11:G2:93:LYS:O	2.44	0.49
11:G2:159:ARG:NH2	21:i2:77:A:O3'	2.46	0.49
16:W2:80:ASP:OD1	16:W2:124:LYS:HG2	2.13	0.49
21:i2:363:A:N6	21:i2:400:C:O2'	2.45	0.49
21:i2:595:U:O2'	21:i2:596:U:O5'	2.31	0.49
21:i2:1784:G:N3	21:i2:1784:G:C2'	2.76	0.49
22:A2:76:VAL:HG13	22:A2:123:VAL:HG23	1.94	0.49
23:B2:85:LYS:HB2	23:B2:101:HIS:HB3	1.94	0.49
26:F2:123:GLU:OE2	26:F2:197:GLU:HA	2.12	0.49
6:c3:44:ARG:HA	6:c3:64:GLU:O	2.13	0.49
7:d3:29:GLY:O	7:d3:40:ARG:HG3	2.12	0.49
9:g3:48:ASP:HB2	9:g3:51:ASN:O	2.12	0.49
9:g3:185:LYS:HG2	24:D3:226:GLN:HE21	1.77	0.49
10:C3:196:ILE:HG23	10:C3:223:TYR:HB2	1.95	0.49
17:Y3:20:ARG:NH1	17:Y3:22:GLN:OE1	2.44	0.49
18:Z3:85:ARG:HH12	21:i3:1595:U:H3'	1.77	0.49
21:i3:222:U:H3	21:i3:299:A:H61	1.60	0.49
21:i3:1139:C:H5	21:i3:1149:A:H62	1.61	0.49
21:i3:1204:A:H1'	21:i3:1699:A:H2'	1.95	0.49
22:A3:111:GLN:HG3	22:A3:112:ILE:HG13	1.94	0.49
26:F3:76:MET:HB2	26:F3:89:THR:HB	1.95	0.49
31:P3:15:PHE:CE2	31:P3:112:ILE:HD11	2.48	0.49
5:a4:102:ARG:CB	5:a4:103:PRO:CA	2.87	0.49
12:J4:17:ARG:HE	21:i4:3:C:H41	1.60	0.49
16:W4:80:ASP:OD1	16:W4:124:LYS:HG2	2.13	0.49
21:i4:103:A:N6	21:i4:356:C:O4'	2.46	0.49
21:i4:1144:A:H5'	21:i4:1355:C:H41	1.77	0.49
30:L4:77:VAL:HG12	30:L4:122:ILE:HG22	1.92	0.49
31:P4:18:ARG:HA	34:S4:93:GLY:HA3	1.94	0.49
31:P4:34:MET:HB3	31:P4:42:ARG:HG3	1.95	0.49
4:X5:125:VAL:HG22	4:X5:126:ALA:H	1.78	0.49
21:i5:440:G:OP1	28:I5:24:LYS:NZ	2.41	0.49
21:i5:1392:U:H2'	21:i5:1393:G:H8	1.78	0.49
22:A5:145:ILE:HG22	22:A5:159:ILE:HB	1.93	0.49
29:K5:18:GLU:HG3	29:K5:20:VAL:HG22	1.94	0.49
9:g6:44:LYS:HB3	9:g6:46:THR:HG23	1.93	0.49
12:J6:40:LYS:HG3	20:e6:34:ARG:HH12	1.76	0.49
15:O6:34:PHE:CD1	15:O6:98:ARG:HD3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O6:74:ALA:HB1	15:O6:115:ALA:HB2	1.93	0.49
20:e6:43:VAL:CG2	21:i6:551:U:O2'	2.61	0.49
21:i6:1392:U:H2'	21:i6:1393:G:H8	1.78	0.49
23:B6:36:PRO:HD3	23:B6:98:THR:HG23	1.95	0.49
33:R6:21:TYR:CZ	33:R6:72:LYS:HE2	2.48	0.49
36:k6:79:TYR:HD1	36:k6:131:ILE:HG12	1.76	0.49
37:l3:181:LYS:CB	37:l3:184:GLU:CD	2.86	0.49
37:l4:152:PHE:HE1	37:l4:173:ASP:OD1	1.92	0.49
37:l6:181:LYS:CB	37:l6:184:GLU:CD	2.86	0.49
11:G1:200:LYS:O	11:G1:204:GLU:N	2.45	0.49
15:O1:72:TYR:HA	15:O1:75:MET:SD	2.53	0.49
21:i1:388:U:C4	21:i1:389:A:N7	2.81	0.49
21:i1:1069:U:H1'	36:k1:16:GLN:OE1	2.13	0.49
21:i1:1183:A:H2'	21:i1:1184:G:H8	1.77	0.49
21:i1:1199:A:H2	21:i1:1356:G:H22	1.61	0.49
21:i1:1553:C:H4'	21:i1:1554:C:H5	1.78	0.49
22:A1:108:PHE:HB2	22:A1:136:GLU:HB3	1.94	0.49
28:I1:79:ILE:HG21	28:I1:170:LYS:HZ2	1.77	0.49
28:I1:196:GLU:HG3	28:I1:200:ARG:NE	2.27	0.49
29:K1:18:GLU:HG3	29:K1:20:VAL:HG22	1.94	0.49
33:R1:10:LYS:HD3	33:R1:14:ARG:HH22	1.77	0.49
9:g2:174:VAL:O	9:g2:188:HIS:HD2	1.95	0.49
9:g2:185:LYS:HG2	24:D2:226:GLN:HE21	1.77	0.49
12:J2:172:ARG:HD3	21:i2:562:U:C5	2.48	0.49
21:i2:190:G:H22	21:i2:208:G:H3'	1.78	0.49
21:i2:527:C:H2'	21:i2:528:A:C8	2.48	0.49
21:i2:1137:U:O2'	21:i2:1138:C:OP1	2.29	0.49
21:i2:1650:A:H3'	21:i2:1651:A:H8	1.78	0.49
22:A2:32:PHE:CE2	22:A2:33:GLN:HG3	2.48	0.49
26:F2:120:GLY:O	26:F2:146:ARG:NH2	2.46	0.49
2:U3:59:LYS:HG2	24:D3:8:LYS:NZ	2.28	0.49
9:g3:68:ASP:OD1	9:g3:69:VAL:N	2.44	0.49
10:C3:244:ILE:HA	10:C3:247:THR:HG23	1.95	0.49
11:G3:141:ILE:HG12	11:G3:144:LEU:CD2	1.94	0.49
11:G3:159:ARG:NH2	21:i3:77:A:O3'	2.46	0.49
21:i3:335:G:O5'	21:i3:335:G:H8	1.95	0.49
21:i3:1208:A:O2'	21:i3:1835:A:N7	2.43	0.49
21:i3:1828:C:C5'	37:l3:154:CYS:SG	3.00	0.49
23:B3:40:ASN:N	23:B3:75:GLN:OE1	2.34	0.49
26:F3:38:TYR:HD1	26:F3:144:LEU:HD13	1.77	0.49
28:I3:8:TRP:HZ3	28:I3:20:PRO:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:36:THR:OG1	34:S4:80:PRO:HG2	2.13	0.49
10:C4:106:VAL:HG22	10:C4:128:VAL:HG22	1.94	0.49
11:G4:159:ARG:NH2	21:i4:77:A:O3'	2.46	0.49
11:G4:159:ARG:HH11	21:i4:75:G:H21	1.60	0.49
11:G4:187:HIS:NE2	21:i4:317:C:N4	2.61	0.49
15:O4:72:TYR:HA	15:O4:75:MET:SD	2.53	0.49
16:W4:10:ALA:O	16:W4:13:SER:OG	2.24	0.49
21:i4:190:G:H22	21:i4:208:G:H3'	1.78	0.49
21:i4:1173:A:OP2	35:j4:14:LYS:HD3	2.06	0.49
21:i4:1183:A:H2'	21:i4:1184:G:H8	1.77	0.49
21:i4:1342:U:N3	21:i4:1483:A:N1	2.61	0.49
21:i4:1699:A:H8	21:i4:1699:A:O5'	1.96	0.49
22:A4:91:ALA:HB3	22:A4:98:PRO:HB3	1.95	0.49
26:F4:128:ILE:N	26:F4:137:GLN:OE1	2.35	0.49
29:K4:18:GLU:HG3	29:K4:20:VAL:HG22	1.94	0.49
30:L4:73:LEU:HD22	30:L4:90:ARG:HH21	1.78	0.49
33:R4:77:GLU:O	33:R4:78:ARG:C	2.55	0.49
34:S4:6:PRO:CD	34:S4:58:GLU:HG2	2.42	0.49
4:X5:81:ILE:HG21	4:X5:120:PHE:CD2	2.47	0.49
9:g5:130:LYS:HB3	9:g5:141:THR:HG23	1.94	0.49
11:G5:137:ARG:HG3	21:i5:170:A:H5'	1.95	0.49
12:J5:61:LEU:HA	12:J5:70:ARG:HH12	1.75	0.49
17:Y5:88:LYS:HD2	17:Y5:91:LEU:HB2	1.94	0.49
19:b5:74:THR:O	19:b5:76:GLY:N	2.46	0.49
21:i5:1204:A:H1'	21:i5:1699:A:H2'	1.95	0.49
21:i5:1342:U:N3	21:i5:1483:A:N1	2.61	0.49
21:i5:1545:A:HO2'	21:i5:1546:G:H8	1.61	0.49
21:i5:1860:A:O2'	21:i5:1861:G:OP2	2.27	0.49
26:F5:35:LEU:HD21	26:F5:146:ARG:HD3	1.94	0.49
27:H5:18:GLU:HG2	27:H5:19:PHE:H	1.78	0.49
29:K5:13:GLU:O	29:K5:17:LYS:N	2.43	0.49
2:U6:44:LYS:HA	2:U6:47:ASN:HB3	1.94	0.49
2:U6:59:LYS:HG2	24:D6:8:LYS:NZ	2.28	0.49
6:c6:44:ARG:HA	6:c6:64:GLU:O	2.13	0.49
12:J6:172:ARG:HD3	21:i6:562:U:C5	2.48	0.49
13:M6:61:TYR:OH	13:M6:108:CYS:SG	2.65	0.49
15:O6:46:ASP:O	15:O6:49:GLY:N	2.40	0.49
21:i6:222:U:H3	21:i6:299:A:H61	1.60	0.49
21:i6:496:C:H2'	21:i6:497:C:C6	2.48	0.49
21:i6:1236:G:H4'	31:P6:133:ILE:HB	1.94	0.49
21:i6:1240:A:C2	31:P6:100:LYS:CB	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F6:171:GLU:HA	26:F6:174:ALA:HB3	1.95	0.49
29:K6:27:VAL:HG13	29:K6:43:LEU:HD13	1.95	0.49
36:k4:118:SER:HB2	36:k4:119:PRO:CD	2.34	0.49
36:k5:81:THR:CG2	36:k5:174:LEU:HD21	2.42	0.49
36:k5:92:LEU:HD13	36:k5:131:ILE:CG2	2.39	0.49
37:l2:126:LYS:HD2	37:l2:167:GLN:HB3	1.93	0.49
37:l2:181:LYS:CB	37:l2:184:GLU:CD	2.86	0.49
37:l3:126:LYS:HD2	37:l3:167:GLN:HB3	1.93	0.49
37:l3:142:LYS:HE2	37:l3:146:ARG:HH11	1.78	0.49
37:l3:175:ILE:O	37:l3:175:ILE:HD12	2.12	0.49
37:l4:130:ARG:C	37:l4:131:VAL:CG2	2.86	0.49
2:U1:59:LYS:HG2	24:D1:8:LYS:NZ	2.28	0.49
9:g1:185:LYS:HG2	24:D1:226:GLN:HE21	1.77	0.49
19:b1:44:THR:O	19:b1:46:VAL:HG13	2.13	0.49
20:e1:39:ASN:CB	20:e1:43:VAL:HG21	2.42	0.49
21:i1:217:A:H2'	21:i1:218:U:H5'	1.95	0.49
21:i1:305:U:O2'	21:i1:309:G:OP2	2.30	0.49
21:i1:500:A:H3'	21:i1:501:C:C6	2.47	0.49
21:i1:555:A:N7	21:i1:557:U:C5	2.81	0.49
21:i1:735:C:C3'	21:i1:735:C:C6	2.95	0.49
21:i1:1143:A:O3'	21:i1:1355:C:C4	2.65	0.49
30:L1:73:LEU:HD22	30:L1:90:ARG:HH21	1.78	0.49
32:Q1:54:PRO:HG2	32:Q1:88:ILE:HD11	1.94	0.49
9:g2:60:ARG:H	32:Q2:97:GLN:NE2	2.11	0.49
9:g2:112:ALA:HB3	9:g2:121:VAL:HB	1.95	0.49
9:g2:186:THR:HA	24:D2:226:GLN:HG3	1.94	0.49
9:g2:301:GLY:HA2	9:g2:307:VAL:HA	1.93	0.49
10:C2:244:ILE:HA	10:C2:247:THR:HG23	1.95	0.49
11:G2:37:ALA:HA	11:G2:49:VAL:HA	1.95	0.49
11:G2:209:TYR:O	11:G2:214:ALA:N	2.46	0.49
13:M2:42:LEU:HG	13:M2:74:ILE:HD13	1.95	0.49
16:W2:76:SER:HB2	16:W2:77:PRO:HD3	1.95	0.49
23:B2:22:VAL:CA	30:L4:30:LYS:HE3	2.43	0.49
28:I2:125:LYS:CG	15:O5:66:ARG:NH1	2.76	0.49
29:K2:43:LEU:HG	29:K2:44:HIS:ND1	2.28	0.49
30:L2:35:ARG:NE	30:L2:50:ALA:O	2.46	0.49
32:Q2:39:LEU:HD23	32:Q2:52:LEU:HA	1.95	0.49
1:T3:36:THR:OG1	34:S3:80:PRO:HG2	2.13	0.49
10:C3:65:LYS:CG	10:C3:279:ARG:NE	2.75	0.49
10:C3:74:LYS:CE	10:C3:272:HIS:CB	2.70	0.49
11:G3:77:LEU:N	11:G3:93:LYS:O	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:52:G:N2	21:i3:507:G:O6	2.46	0.49
21:i3:556:U:N3	21:i3:588:G:C8	2.80	0.49
21:i3:595:U:O2'	21:i3:596:U:O5'	2.31	0.49
21:i3:1022:U:H5'	21:i3:1023:A:C8	2.48	0.49
21:i3:1068:G:H4'	36:k3:15:ILE:HG23	1.95	0.49
22:A3:32:PHE:CE2	22:A3:33:GLN:HG3	2.48	0.49
22:A3:210:ILE:HG13	22:A3:211:GLU:N	2.22	0.49
27:H3:105:THR:OG1	27:H3:106:ARG:N	2.46	0.49
1:T4:33:TRP:HH2	1:T4:102:ARG:HH11	1.60	0.49
9:g4:242:SER:N	9:g4:246:TYR:O	2.44	0.49
11:G4:199:THR:HG21	21:i4:126:G:H8	1.77	0.49
14:N4:133:ARG:CD	30:L4:152:LYS:CG	2.90	0.49
16:W4:24:GLN:HG3	16:W4:64:ASN:HA	1.94	0.49
18:Z4:66:LYS:HA	18:Z4:111:ARG:HB3	1.95	0.49
18:Z4:85:ARG:HH11	21:i4:1596:U:H5	0.62	0.49
21:i4:316:G:H8	21:i4:316:G:O5'	1.96	0.49
21:i4:595:U:O2'	21:i4:596:U:O5'	2.31	0.49
21:i4:690:G:N3	21:i4:690:G:C5'	2.73	0.49
2:U5:44:LYS:HA	2:U5:47:ASN:HB3	1.94	0.49
9:g5:185:LYS:HG2	24:D5:226:GLN:HE21	1.77	0.49
21:i5:30:C:O2'	21:i5:596:U:OP1	2.25	0.49
21:i5:217:A:H2'	21:i5:218:U:H5'	1.95	0.49
21:i5:496:C:H2'	21:i5:497:C:C6	2.48	0.49
21:i5:737:G:H4'	21:i5:737:G:OP1	2.13	0.49
21:i5:1022:U:H5'	21:i5:1023:A:C8	2.48	0.49
21:i5:1707:U:O2'	21:i5:1849:G:N2	2.46	0.49
25:E5:211:LYS:HE2	25:E5:215:GLY:HA2	1.93	0.49
27:H5:39:GLN:HB3	27:H5:75:ILE:HD11	1.94	0.49
31:P5:110:GLU:CD	34:S5:113:ARG:HG3	2.38	0.49
5:a6:102:ARG:N	5:a6:102:ARG:CD	2.73	0.49
9:g6:185:LYS:HG2	24:D6:226:GLN:HE21	1.77	0.49
11:G6:153:VAL:C	11:G6:155:GLN:N	2.69	0.49
15:O6:14:VAL:N	15:O6:15:ILE:HA	2.26	0.49
16:W6:2:VAL:O	16:W6:4:MET:N	2.46	0.49
19:b6:74:THR:O	19:b6:76:GLY:N	2.46	0.49
20:e6:25:LYS:CE	21:i6:554:A:OP1	2.60	0.49
21:i6:311:C:H4'	21:i6:339:A:H4'	1.94	0.49
21:i6:1199:A:H2	21:i6:1356:G:N2	2.11	0.49
21:i6:1342:U:N3	21:i6:1483:A:N1	2.61	0.49
21:i6:1622:U:OP2	21:i6:1623:A:O2'	2.26	0.49
22:A6:108:PHE:HB2	22:A6:136:GLU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B6:63:LYS:HG3	23:B6:89:GLU:O	2.13	0.49
25:E6:195:ILE:O	25:E6:197:ASN:N	2.45	0.49
27:H6:18:GLU:HG2	27:H6:19:PHE:H	1.78	0.49
29:K6:18:GLU:HG3	29:K6:20:VAL:HG22	1.94	0.49
30:L6:89:ARG:HA	30:L6:108:ASN:HA	1.95	0.49
32:Q6:96:TYR:HA	32:Q6:100:VAL:HG22	1.95	0.49
36:k2:96:GLN:HE22	36:k2:122:LYS:HD3	1.78	0.49
36:k4:82:LEU:HD11	36:k4:169:TYR:HA	1.93	0.49
37:l2:175:ILE:O	37:l2:175:ILE:HD12	2.12	0.49
37:l2:182:TRP:HE3	37:l2:183:PRO:CB	2.26	0.49
37:l4:127:TYR:CD2	37:l4:169:ASP:HB3	2.48	0.49
4:X1:125:VAL:HG22	4:X1:126:ALA:H	1.78	0.49
9:g1:40:ILE:HD12	9:g1:90:TRP:HE1	1.78	0.49
11:G1:37:ALA:HA	11:G1:49:VAL:HA	1.95	0.49
11:G1:159:ARG:NH2	21:i1:77:A:O3'	2.46	0.49
12:J1:172:ARG:HD3	21:i1:562:U:C5	2.48	0.49
14:N1:40:LEU:HD22	14:N1:45:LEU:HD12	1.95	0.49
15:O1:74:ALA:HB1	15:O1:115:ALA:HB2	1.93	0.49
21:i1:12:U:H4'	21:i1:1357:A:O4'	2.13	0.49
21:i1:40:A:H61	21:i1:514:U:H3	1.61	0.49
21:i1:190:G:H22	21:i1:208:G:H3'	1.78	0.49
21:i1:388:U:N3	21:i1:389:A:N7	2.61	0.49
21:i1:496:C:H2'	21:i1:497:C:C6	2.48	0.49
21:i1:1383:A:H2'	21:i1:1384:C:C6	2.48	0.49
22:A1:32:PHE:CE2	22:A1:33:GLN:HG3	2.48	0.49
22:A1:91:ALA:HB3	22:A1:98:PRO:HB3	1.95	0.49
23:B1:97:LEU:HD22	23:B1:232:HIS:CD2	2.48	0.49
26:F1:120:GLY:O	26:F1:146:ARG:NH2	2.46	0.49
29:K1:15:LEU:HD21	29:K1:71:LEU:HD11	1.95	0.49
2:U2:59:LYS:HG2	24:D2:8:LYS:NZ	2.28	0.49
9:g2:64:HIS:CE1	9:g2:84:ASP:HB3	2.48	0.49
10:C2:65:LYS:CG	10:C2:279:ARG:NE	2.74	0.49
11:G2:32:MET:HA	11:G2:52:ILE:HG13	1.94	0.49
14:N2:40:LEU:HD22	14:N2:45:LEU:HD12	1.95	0.49
15:O2:72:TYR:HA	15:O2:75:MET:SD	2.53	0.49
17:Y2:20:ARG:HD2	17:Y2:76:TYR:CE1	2.47	0.49
18:Z2:85:ARG:NH1	21:i2:1596:U:H6	2.03	0.49
19:b2:74:THR:O	19:b2:76:GLY:N	2.46	0.49
21:i2:319:C:N3	21:i2:332:G:N1	2.60	0.49
21:i2:388:U:N3	21:i2:389:A:N7	2.61	0.49
21:i2:1392:U:H2'	21:i2:1393:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A2:217:ALA:HB1	22:A2:220:LYS:CE	2.34	0.49
24:D2:67:ARG:CG	29:K2:96:ARG:HH21	2.22	0.49
33:R2:36:GLU:OE1	33:R2:36:GLU:N	2.43	0.49
1:T3:23:LYS:HE3	1:T3:51:ASN:OD1	2.13	0.49
2:U3:56:MET:HE1	21:i3:1580:A:H8	1.77	0.49
6:c3:16:LYS:HE3	6:c3:31:ARG:HH21	1.78	0.49
9:g3:64:HIS:CE1	9:g3:84:ASP:HB3	2.48	0.49
9:g3:301:GLY:HA2	9:g3:307:VAL:HA	1.94	0.49
11:G3:135:PRO:HB3	11:G3:140:ARG:HG3	1.95	0.49
11:G3:209:TYR:O	11:G3:214:ALA:N	2.46	0.49
19:b3:36:LYS:HB2	19:b3:78:SER:OG	2.13	0.49
21:i3:181:A:H1'	21:i3:182:C:C2	2.48	0.49
21:i3:1170:A:N6	21:i3:1189:A:OP2	2.42	0.49
22:A3:76:VAL:HG13	22:A3:123:VAL:HG23	1.94	0.49
22:A3:104:THR:O	22:A3:107:THR:OG1	2.20	0.49
23:B3:36:PRO:HD3	23:B3:98:THR:HG23	1.95	0.49
26:F3:120:GLY:O	26:F3:146:ARG:NH2	2.46	0.49
4:X4:125:VAL:HG22	4:X4:126:ALA:H	1.78	0.49
15:O4:34:PHE:CD1	15:O4:98:ARG:HD3	2.47	0.49
21:i4:388:U:N3	21:i4:389:A:N7	2.61	0.49
21:i4:1622:U:OP2	21:i4:1623:A:O2'	2.26	0.49
21:i4:1650:A:H3'	21:i4:1651:A:H8	1.78	0.49
21:i4:1829:G:OP1	37:l4:126:LYS:HE3	2.12	0.49
21:i4:1841:C:H3'	35:j4:2:ARG:HH21	0.82	0.49
29:K4:32:HIS:N	29:K4:41:PRO:HA	2.22	0.49
5:a5:100:ARG:CG	5:a5:100:ARG:NH1	2.73	0.49
9:g5:174:VAL:O	9:g5:188:HIS:HD2	1.95	0.49
15:O5:72:TYR:HA	15:O5:75:MET:SD	2.53	0.49
16:W5:76:SER:HB2	16:W5:77:PRO:HD3	1.95	0.49
21:i5:103:A:N6	21:i5:356:C:O4'	2.46	0.49
21:i5:388:U:C4	21:i5:389:A:N7	2.81	0.49
21:i5:388:U:N3	21:i5:389:A:N7	2.61	0.49
23:B5:63:LYS:HG3	23:B5:89:GLU:O	2.13	0.49
26:F5:106:GLU:HG2	26:F5:107:ASN:N	2.28	0.49
26:F5:120:GLY:O	26:F5:146:ARG:NH2	2.46	0.49
33:R5:36:GLU:OE1	33:R5:36:GLU:N	2.43	0.49
8:f6:105:TYR:CE1	8:f6:131:PHE:CZ	3.00	0.49
9:g6:114:SER:OG	9:g6:116:ASP:OD1	2.17	0.49
11:G6:159:ARG:HH11	21:i6:75:G:H21	1.60	0.49
13:M6:48:HIS:CB	13:M6:114:TYR:OH	2.60	0.49
16:W6:80:ASP:OD1	16:W6:124:LYS:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e6:25:LYS:HE2	21:i6:554:A:P	2.53	0.49
21:i6:1395:C:O2	21:i6:1474:A:N6	2.45	0.49
21:i6:1707:U:O2	37:l6:153:SER:OG	2.21	0.49
24:D6:161:GLY:O	24:D6:164:VAL:HG12	2.12	0.49
26:F6:106:GLU:HG2	26:F6:107:ASN:N	2.28	0.49
27:H6:73:GLN:HB3	27:H6:135:PHE:CZ	2.48	0.49
29:K6:4:PRO:HG2	29:K6:8:ARG:HE	1.77	0.49
33:R6:86:PRO:O	33:R6:89:SER:OG	2.15	0.49
36:k2:86:HIS:CD2	36:k2:141:HIS:HA	2.47	0.49
36:k6:170:LEU:HD12	36:k6:175:TRP:CZ3	2.48	0.49
37:l1:126:LYS:HA	37:l1:168:GLY:CA	2.40	0.49
37:l3:164:ILE:O	37:l3:165:ILE:CD1	2.53	0.49
37:l5:115:VAL:HG22	37:l5:132:CYS:O	2.13	0.49
37:l5:175:ILE:HD12	37:l5:175:ILE:O	2.12	0.49
37:l6:130:ARG:C	37:l6:131:VAL:CG2	2.86	0.49
6:c1:16:LYS:HE3	6:c1:31:ARG:HH21	1.78	0.48
8:f1:95:ARG:HD2	21:i1:1289:U:H5''	1.76	0.48
10:C1:65:LYS:HG2	10:C1:279:ARG:HE	1.78	0.48
10:C1:205:VAL:HG12	21:i1:1:U:H1'	1.95	0.48
13:M1:48:HIS:CB	13:M1:114:TYR:OH	2.60	0.48
14:N1:101:HIS:HE2	14:N1:105:ASN:ND2	2.11	0.48
14:N1:122:ILE:O	14:N1:126:ALA:N	2.33	0.48
14:N1:133:ARG:NH1	30:L1:152:LYS:C	2.70	0.48
16:W1:76:SER:HB2	16:W1:77:PRO:HD3	1.95	0.48
21:i1:28:U:H2'	21:i1:29:G:H8	1.78	0.48
21:i1:57:U:O2'	21:i1:499:G:N3	2.44	0.48
21:i1:912:C:O2'	21:i1:913:A:OP1	2.30	0.48
21:i1:1342:U:N3	21:i1:1483:A:N1	2.61	0.48
21:i1:1395:C:H3'	21:i1:1396:A:H5''	1.93	0.48
21:i1:1410:C:H42	21:i1:1435:C:H42	1.61	0.48
23:B1:63:LYS:HG3	23:B1:89:GLU:O	2.13	0.48
29:K1:27:VAL:HG13	29:K1:43:LEU:HD13	1.95	0.48
30:L1:69:ARG:HH22	30:L1:132:ARG:HA	1.78	0.48
32:Q1:96:TYR:HA	32:Q1:100:VAL:HG22	1.95	0.48
3:V2:56:CYS:HB3	3:V2:59:ILE:HG12	1.95	0.48
6:c2:16:LYS:HE3	6:c2:31:ARG:HH21	1.78	0.48
21:i2:172:U:C2	21:i2:336:A:O2'	2.63	0.48
21:i2:598:G:O2'	21:i2:605:A:N1	2.42	0.48
21:i2:795:A:H62	27:H2:109:ARG:NH2	2.10	0.48
26:F2:35:LEU:HD21	26:F2:146:ARG:HD3	1.94	0.48
29:K2:31:LYS:HA	29:K2:41:PRO:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q2:34:VAL:N	32:Q2:37:ARG:O	2.26	0.48
33:R2:28:PHE:HA	33:R2:55:THR:HG21	1.94	0.48
1:T3:40:ALA:H	1:T3:96:SER:HB2	1.78	0.48
7:d3:22:ARG:NH2	7:d3:36:LEU:O	2.44	0.48
8:f3:93:HIS:CB	21:i3:1304:U:H4'	2.28	0.48
11:G3:159:ARG:HH11	21:i3:75:G:H21	1.60	0.48
13:M3:27:ILE:HG23	29:K3:84:HIS:CG	2.41	0.48
15:O3:34:PHE:CD1	15:O3:98:ARG:HD3	2.47	0.48
16:W3:112:ASP:HB3	16:W3:115:GLU:HB3	1.95	0.48
21:i3:388:U:C4	21:i3:389:A:N7	2.81	0.48
21:i3:496:C:H2'	21:i3:497:C:C6	2.48	0.48
21:i3:1079:C:O2'	21:i3:1182:A:N1	2.45	0.48
21:i3:1392:U:H2'	21:i3:1393:G:H8	1.78	0.48
21:i3:1615:U:O4	31:P3:40:ARG:NH2	2.46	0.48
21:i3:1650:A:H3'	21:i3:1651:A:H8	1.78	0.48
22:A3:89:LYS:HZ1	33:R3:82:ASP:CB	2.21	0.48
26:F3:191:LYS:HE2	28:I6:142:SER:CB	2.42	0.48
29:K3:4:PRO:HG2	29:K3:8:ARG:HE	1.77	0.48
30:L3:35:ARG:NE	30:L3:50:ALA:O	2.45	0.48
2:U4:44:LYS:HA	2:U4:47:ASN:HB3	1.94	0.48
2:U4:59:LYS:HG2	24:D4:8:LYS:NZ	2.28	0.48
2:U4:86:LYS:O	2:U4:87:ARG:NH2	2.44	0.48
5:a4:13:LYS:HD2	21:i4:1133:A:H4'	1.95	0.48
10:C4:196:ILE:HG23	10:C4:223:TYR:HB2	1.95	0.48
11:G4:77:LEU:N	11:G4:93:LYS:O	2.44	0.48
11:G4:135:PRO:HB3	11:G4:140:ARG:HG3	1.94	0.48
13:M4:117:GLU:OE1	13:M4:119:GLN:N	2.36	0.48
20:e4:45:VAL:CG1	21:i4:535:G:H5'	2.39	0.48
21:i4:311:C:H4'	21:i4:339:A:H4'	1.94	0.48
21:i4:691:G:H2'	21:i4:691:G:N3	2.27	0.48
21:i4:890:U:O4	21:i4:896:U:O2'	2.29	0.48
21:i4:1383:A:H2'	21:i4:1384:C:C6	2.48	0.48
21:i4:1406:G:H22	21:i4:1441:U:H3	1.61	0.48
23:B4:36:PRO:HD3	23:B4:98:THR:HG23	1.95	0.48
27:H4:156:VAL:HB	27:H4:187:PHE:CD1	2.47	0.48
29:K4:15:LEU:HD21	29:K4:71:LEU:HD11	1.95	0.48
30:L4:69:ARG:HH22	30:L4:132:ARG:HA	1.78	0.48
30:L4:121:GLN:HB3	30:L4:153:LYS:CG	2.43	0.48
4:X5:48:LYS:NZ	21:i5:483:C:H5''	2.27	0.48
6:c5:26:GLN:OE1	21:i5:1219:C:O2'	2.23	0.48
9:g5:121:VAL:HG23	9:g5:156:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M5:48:HIS:CB	13:M5:114:TYR:OH	2.60	0.48
18:Z5:88:LEU:HB3	18:Z5:109:TYR:CZ	2.41	0.48
21:i5:1143:A:O3'	21:i5:1355:C:N4	2.46	0.48
21:i5:1373:C:H5'	33:R5:7:LYS:HB2	1.94	0.48
21:i5:1410:C:H42	21:i5:1435:C:H42	1.61	0.48
21:i5:1522:A:N6	31:P5:131:PRO:CB	2.74	0.48
21:i5:1615:U:O4	31:P5:40:ARG:NH2	2.44	0.48
22:A5:32:PHE:CE2	22:A5:33:GLN:HG3	2.48	0.48
22:A5:214:GLU:HB2	22:A5:215:GLN:OE1	2.13	0.48
25:E5:68:ARG:HG3	25:E5:76:VAL:HG21	1.95	0.48
27:H5:88:SER:O	27:H5:90:LYS:N	2.42	0.48
29:K5:15:LEU:HD21	29:K5:71:LEU:HD11	1.95	0.48
30:L5:73:LEU:HD22	30:L5:90:ARG:HH21	1.78	0.48
30:L5:126:VAL:CG2	30:L5:145:VAL:HG22	2.43	0.48
33:R5:80:ARG:HH11	33:R5:80:ARG:HG2	1.77	0.48
9:g6:48:ASP:HB2	9:g6:51:ASN:O	2.12	0.48
10:C6:123:ARG:HD3	21:i6:1348:G:OP1	2.13	0.48
10:C6:125:LYS:HA	10:C6:143:CYS:HA	1.95	0.48
10:C6:166:ARG:O	10:C6:181:PRO:HD3	2.12	0.48
15:O6:54:CYS:SG	15:O6:84:ARG:HB3	2.53	0.48
16:W6:78:ARG:HH12	21:i6:864:A:H4'	1.76	0.48
21:i6:196:C:O2'	21:i6:203:G:N2	2.43	0.48
26:F6:38:TYR:HD1	26:F6:144:LEU:HD13	1.77	0.48
26:F6:120:GLY:O	26:F6:146:ARG:NH2	2.46	0.48
33:R6:36:GLU:OE1	33:R6:36:GLU:N	2.43	0.48
36:k1:118:SER:HB2	36:k1:119:PRO:CD	2.34	0.48
36:k3:82:LEU:HD23	36:k3:142:ALA:HB3	1.93	0.48
37:l1:127:TYR:CD2	37:l1:169:ASP:HB3	2.48	0.48
37:l4:181:LYS:CB	37:l4:184:GLU:CD	2.86	0.48
7:d1:29:GLY:O	7:d1:40:ARG:HG3	2.12	0.48
9:g1:60:ARG:H	32:Q1:97:GLN:NE2	2.11	0.48
10:C1:142:LYS:HE2	21:i1:1350:U:OP1	2.13	0.48
15:O1:54:CYS:SG	15:O1:84:ARG:HB3	2.53	0.48
16:W1:80:ASP:OD1	16:W1:124:LYS:HG2	2.13	0.48
21:i1:1244:U:H2'	21:i1:1245:G:H8	1.77	0.48
21:i1:1325:G:H1	21:i1:1503:C:H42	1.60	0.48
21:i1:1693:G:N2	21:i1:1834:A:C8	2.82	0.48
11:G2:135:PRO:HB3	11:G2:140:ARG:HG3	1.95	0.48
11:G2:189:ARG:HH21	21:i2:331:C:N4	2.11	0.48
15:O2:34:PHE:CD1	15:O2:98:ARG:HD3	2.47	0.48
21:i2:222:U:H3	21:i2:299:A:H61	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1173:A:C5'	35:j2:17:ARG:NH2	2.77	0.48
21:i2:1288:U:O2'	21:i2:1312:G:N2	2.46	0.48
21:i2:1673:U:H5''	32:Q2:78:VAL:HB	1.95	0.48
28:I2:8:TRP:HZ3	28:I2:20:PRO:HB3	1.78	0.48
28:I2:200:ARG:HD2	21:i5:970:G:H22	1.68	0.48
31:P2:29:SER:O	31:P2:33:LEU:HG	2.13	0.48
33:R2:41:ILE:HD13	33:R2:47:ARG:HB2	1.96	0.48
34:S2:128:GLY:O	34:S2:144:ARG:NH2	2.45	0.48
2:U3:44:LYS:HA	2:U3:47:ASN:HB3	1.94	0.48
2:U3:87:ARG:NH1	21:i3:1447:G:OP1	2.36	0.48
9:g3:285:GLN:HE21	9:g3:303:THR:HG21	1.77	0.48
16:W3:24:GLN:HG3	16:W3:64:ASN:HA	1.94	0.48
21:i3:103:A:N6	21:i3:356:C:O4'	2.46	0.48
21:i3:217:A:H2'	21:i3:218:U:H5'	1.95	0.48
21:i3:311:C:H4'	21:i3:339:A:H4'	1.94	0.48
21:i3:1182:A:H5''	35:j3:15:ARG:HD3	1.96	0.48
23:B3:63:LYS:HG3	23:B3:89:GLU:O	2.13	0.48
23:B3:198:GLU:O	23:B3:202:GLN:HB2	2.12	0.48
26:F3:182:LYS:O	26:F3:184:SER:N	2.40	0.48
29:K3:31:LYS:HA	29:K3:41:PRO:HA	1.96	0.48
1:T4:23:LYS:HE3	1:T4:51:ASN:OD1	2.13	0.48
2:U4:56:MET:HE1	21:i4:1580:A:H8	1.77	0.48
3:V4:76:ASP:OD1	3:V4:77:GLY:N	2.45	0.48
8:f4:105:TYR:CD2	8:f4:106:TYR:CD2	2.96	0.48
9:g4:185:LYS:HG2	24:D4:226:GLN:HE21	1.77	0.48
13:M4:28:HIS:NE2	13:M4:116:LYS:HE3	2.22	0.48
21:i4:28:U:H2'	21:i4:29:G:H8	1.78	0.48
21:i4:1083:A:O2'	21:i4:1858:G:N2	2.44	0.48
21:i4:1347:U:H2'	21:i4:1348:G:C8	2.49	0.48
21:i4:1392:U:H2'	21:i4:1393:G:C8	2.48	0.48
22:A4:15:VAL:HG23	22:A4:16:LEU:HD12	1.95	0.48
22:A4:32:PHE:CE2	22:A4:33:GLN:HG3	2.48	0.48
23:B4:85:LYS:HB2	23:B4:101:HIS:HB3	1.93	0.48
24:D4:92:ALA:O	24:D4:93:THR:OG1	2.27	0.48
27:H4:73:GLN:HB3	27:H4:135:PHE:CZ	2.48	0.48
27:H4:145:ARG:NH1	27:H4:153:LEU:HD12	2.28	0.48
9:g5:40:ILE:HD12	9:g5:90:TRP:HE1	1.78	0.48
9:g5:162:ASN:O	9:g5:164:ILE:N	2.45	0.48
10:C5:114:LYS:HB2	21:i5:1358:U:OP1	2.13	0.48
12:J5:4:ALA:H	12:J5:5:ARG:HB2	1.75	0.48
13:M5:36:ARG:HH21	21:i5:1310:U:H6	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:315:C:H6	21:i5:315:C:H3'	1.76	0.48
21:i5:368:U:C2	36:k4:109:ALA:HB1	2.45	0.48
21:i5:368:U:C4	36:k4:109:ALA:HB1	2.48	0.48
21:i5:1270:G:O2'	21:i5:1301:A:N7	2.42	0.48
21:i5:1288:U:O2'	21:i5:1312:G:N2	2.46	0.48
28:I5:196:GLU:HG3	28:I5:200:ARG:NE	2.27	0.48
29:K5:4:PRO:HG2	29:K5:8:ARG:HE	1.77	0.48
29:K5:45:VAL:HA	29:K5:48:ALA:HB3	1.95	0.48
31:P5:29:SER:O	31:P5:33:LEU:HG	2.13	0.48
1:T6:38:LYS:H	34:S6:39:ARG:HH22	1.61	0.48
3:V6:16:LYS:HA	3:V6:23:ILE:HA	1.96	0.48
4:X6:125:VAL:HG22	4:X6:126:ALA:H	1.78	0.48
8:f6:80:ARG:HD3	21:i6:1327:G:O2'	2.12	0.48
11:G6:209:TYR:O	11:G6:214:ALA:N	2.46	0.48
21:i6:527:C:H6	21:i6:527:C:O5'	1.96	0.48
21:i6:527:C:H2'	21:i6:528:A:C8	2.49	0.48
21:i6:1069:U:O2'	36:k6:16:GLN:NE2	2.45	0.48
21:i6:1325:G:H1	21:i6:1503:C:H42	1.59	0.48
21:i6:1392:U:H2'	21:i6:1393:G:C8	2.48	0.48
21:i6:1673:U:H5''	32:Q6:78:VAL:HB	1.95	0.48
24:D6:67:ARG:CG	29:K6:96:ARG:HH21	2.21	0.48
27:H6:105:THR:OG1	27:H6:106:ARG:N	2.46	0.48
34:S6:86:ARG:HB3	34:S6:89:ASP:OD1	2.12	0.48
36:k2:79:TYR:HE1	36:k2:131:ILE:HG12	1.78	0.48
36:k2:144:CYS:HB2	36:k2:168:HIS:H	1.77	0.48
36:k3:82:LEU:HD22	36:k3:142:ALA:C	2.37	0.48
37:l1:115:VAL:C	37:l1:116:THR:HG1	2.14	0.48
37:l2:115:VAL:HG22	37:l2:132:CYS:O	2.13	0.48
37:l5:152:PHE:HE1	37:l5:173:ASP:OD1	1.92	0.48
37:l6:115:VAL:HG22	37:l6:132:CYS:O	2.14	0.48
2:U1:44:LYS:HA	2:U1:47:ASN:HB3	1.94	0.48
9:g1:194:TYR:O	9:g1:211:GLY:HA3	2.12	0.48
10:C1:125:LYS:HA	10:C1:143:CYS:HA	1.95	0.48
11:G1:32:MET:HA	11:G1:52:ILE:HG13	1.94	0.48
11:G1:139:SER:HA	11:G1:142:ARG:CD	2.43	0.48
21:i1:595:U:O2'	21:i1:596:U:O5'	2.31	0.48
32:Q1:39:LEU:HD23	32:Q1:52:LEU:HA	1.95	0.48
2:U2:117:ALA:O	2:U2:118:ASP:HB2	2.13	0.48
21:i2:440:G:OP1	28:I2:24:LYS:NZ	2.41	0.48
21:i2:1410:C:H42	21:i2:1435:C:H42	1.61	0.48
23:B2:179:ASN:HB2	23:B2:183:GLU:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F2:171:GLU:HA	26:F2:174:ALA:HB3	1.95	0.48
29:K2:27:VAL:HG13	29:K2:43:LEU:HD13	1.94	0.48
32:Q2:96:TYR:HA	32:Q2:100:VAL:HG22	1.94	0.48
33:R2:21:TYR:CE2	33:R2:72:LYS:CE	2.96	0.48
6:c3:47:LYS:HZ1	26:F3:145:ARG:HG2	1.77	0.48
10:C3:68:ARG:CD	10:C3:277:HIS:HB3	2.36	0.48
12:J3:131:ARG:NH1	21:i3:563:G:HO2'	2.10	0.48
15:O3:54:CYS:SG	15:O3:84:ARG:HB3	2.52	0.48
16:W3:2:VAL:O	16:W3:4:MET:N	2.46	0.48
16:W3:76:SER:HB2	16:W3:77:PRO:HD3	1.95	0.48
21:i3:455:A:O2'	21:i3:1735:A:N3	2.38	0.48
21:i3:1377:U:O5'	22:A3:102:ARG:NH2	2.44	0.48
21:i3:1392:U:H2'	21:i3:1393:G:C8	2.48	0.48
22:A3:15:VAL:HG23	22:A3:16:LEU:HD12	1.95	0.48
23:B3:27:LYS:HA	23:B3:51:ARG:HH21	1.77	0.48
26:F3:171:GLU:HA	26:F3:174:ALA:HB3	1.95	0.48
30:L3:73:LEU:HD22	30:L3:90:ARG:HH21	1.78	0.48
33:R3:61:ILE:C	33:R3:73:LEU:HD22	2.38	0.48
2:U4:117:ALA:O	2:U4:118:ASP:HB2	2.13	0.48
8:f4:80:ARG:NE	21:i4:1509:U:O4	2.46	0.48
10:C4:205:VAL:HG12	21:i4:1:U:H1'	1.96	0.48
15:O4:54:CYS:SG	15:O4:84:ARG:HB3	2.53	0.48
16:W4:65:LEU:C	16:W4:67:GLY:H	2.21	0.48
19:b4:74:THR:O	19:b4:76:GLY:N	2.46	0.48
21:i4:40:A:H61	21:i4:514:U:H3	1.61	0.48
21:i4:1392:U:H2'	21:i4:1393:G:H8	1.78	0.48
21:i4:1828:C:C4'	37:l4:154:CYS:HA	2.43	0.48
23:B4:63:LYS:HG3	23:B4:89:GLU:O	2.13	0.48
27:H4:18:GLU:HG2	27:H4:19:PHE:H	1.78	0.48
34:S4:86:ARG:HB3	34:S4:89:ASP:OD1	2.12	0.48
1:T5:23:LYS:HE3	1:T5:51:ASN:OD1	2.13	0.48
2:U5:17:ILE:HG21	2:U5:94:PRO:CB	2.39	0.48
10:C5:65:LYS:HZ2	10:C5:280:VAL:HB	1.76	0.48
14:N5:133:ARG:HD2	14:N5:133:ARG:HA	1.59	0.48
14:N5:135:LEU:CB	14:N5:136:PRO:CD	2.91	0.48
20:e5:45:VAL:HG22	21:i5:535:G:O2'	2.12	0.48
21:i5:28:U:H2'	21:i5:29:G:H8	1.78	0.48
21:i5:52:G:N2	21:i5:507:G:O6	2.46	0.48
21:i5:878:G:N3	21:i5:878:G:H2'	2.27	0.48
21:i5:1325:G:H1	21:i5:1503:C:H42	1.60	0.48
21:i5:1383:A:H2'	21:i5:1384:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I5:42:ARG:HG3	28:I5:58:LEU:HB2	1.94	0.48
28:I5:142:SER:O	28:I5:144:LYS:N	2.47	0.48
30:L5:121:GLN:HG3	30:L5:153:LYS:CE	2.29	0.48
31:P5:20:VAL:HG12	31:P5:25:LEU:HG	1.94	0.48
34:S5:6:PRO:CD	34:S5:58:GLU:HG2	2.42	0.48
1:T6:40:ALA:H	1:T6:96:SER:HB2	1.78	0.48
6:c6:16:LYS:HE3	6:c6:31:ARG:HH21	1.78	0.48
8:f6:80:ARG:NH2	21:i6:1503:C:O2	2.44	0.48
10:C6:244:ILE:HA	10:C6:247:THR:HG23	1.95	0.48
11:G6:135:PRO:HB3	11:G6:140:ARG:HG3	1.95	0.48
12:J6:181:GLY:O	12:J6:185:ALA:N	2.46	0.48
21:i6:363:A:N6	21:i6:400:C:O2'	2.45	0.48
21:i6:377:G:H5'	28:I6:98:LYS:HE2	1.95	0.48
21:i6:595:U:O2'	21:i6:596:U:O5'	2.31	0.48
21:i6:1208:A:H2'	21:i6:1209:A:H8	1.78	0.48
21:i6:1553:C:H4'	21:i6:1554:C:H5	1.78	0.48
36:k4:170:LEU:HG	36:k4:175:TRP:CD2	2.48	0.48
37:l4:182:TRP:HE3	37:l4:183:PRO:CB	2.26	0.48
1:T1:36:THR:OG1	34:S1:80:PRO:HG2	2.13	0.48
3:V1:16:LYS:HA	3:V1:23:ILE:HA	1.95	0.48
9:g1:206:LEU:HD22	9:g1:221:LEU:H	1.78	0.48
9:g1:285:GLN:HE21	9:g1:303:THR:HG21	1.77	0.48
11:G1:159:ARG:HH11	21:i1:75:G:H21	1.60	0.48
12:J1:61:LEU:HD12	12:J1:70:ARG:HH22	1.79	0.48
21:i1:878:G:H2'	21:i1:878:G:N3	2.27	0.48
21:i1:957:A:H1'	21:i1:958:G:H5'	1.96	0.48
21:i1:1240:A:C2	31:P1:100:LYS:CB	2.96	0.48
21:i1:1347:U:H2'	21:i1:1348:G:C8	2.48	0.48
21:i1:1392:U:H2'	21:i1:1393:G:C8	2.48	0.48
21:i1:1650:A:H3'	21:i1:1651:A:H8	1.78	0.48
23:B1:36:PRO:HD3	23:B1:98:THR:HG23	1.95	0.48
26:F1:158:ALA:HB2	26:F1:173:LEU:HB3	1.95	0.48
28:I1:42:ARG:HG3	28:I1:58:LEU:HB2	1.94	0.48
29:K1:43:LEU:HG	29:K1:44:HIS:ND1	2.28	0.48
31:P1:41:GLN:OE1	31:P1:84:ILE:HD13	2.13	0.48
1:T2:36:THR:OG1	34:S2:80:PRO:HG2	2.13	0.48
5:a2:13:LYS:HD2	21:i2:1133:A:H4'	1.95	0.48
9:g2:121:VAL:HG23	9:g2:156:PHE:CZ	2.48	0.48
10:C2:106:VAL:HG22	10:C2:128:VAL:HG22	1.94	0.48
15:O2:139:SER:HB3	21:i2:983:A:C2	2.49	0.48
18:Z2:50:PHE:O	34:S2:5:ILE:HG22	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:52:G:N2	21:i2:507:G:O6	2.46	0.48
21:i2:1232:U:H2'	21:i2:1233:G:H8	1.78	0.48
21:i2:1342:U:N3	21:i2:1483:A:N1	2.61	0.48
22:A2:212:LYS:HE3	22:A2:212:LYS:HB3	1.63	0.48
24:D2:64:ARG:CZ	29:K2:95:ARG:HH21	2.26	0.48
27:H2:105:THR:OG1	27:H2:106:ARG:N	2.45	0.48
4:X3:48:LYS:H	21:i3:483:C:H5'	1.78	0.48
8:f3:92:LYS:C	21:i3:1304:U:C4'	2.64	0.48
11:G3:137:ARG:HG3	21:i3:170:A:H5'	1.95	0.48
11:G3:139:SER:HA	11:G3:142:ARG:CD	2.43	0.48
21:i3:1347:U:H2'	21:i3:1348:G:C8	2.48	0.48
21:i3:1473:G:N2	21:i3:1475:G:O5'	2.47	0.48
21:i3:1780:G:C5	21:i3:1781:A:H8	2.31	0.48
24:D3:67:ARG:CG	29:K3:96:ARG:HH21	2.22	0.48
24:D3:121:GLY:O	24:D3:125:PHE:N	2.41	0.48
27:H3:145:ARG:NH1	27:H3:153:LEU:HD12	2.28	0.48
29:K3:27:VAL:HG13	29:K3:43:LEU:HD13	1.94	0.48
29:K3:43:LEU:HG	29:K3:44:HIS:ND1	2.28	0.48
32:Q3:96:TYR:HA	32:Q3:100:VAL:HG22	1.95	0.48
9:g4:60:ARG:H	32:Q4:97:GLN:NE2	2.11	0.48
16:W4:72:CYS:HA	16:W4:129:PHE:HA	1.95	0.48
21:i4:496:C:H2'	21:i4:497:C:C6	2.48	0.48
21:i4:1139:C:H5	21:i4:1149:A:H62	1.61	0.48
21:i4:1522:A:N6	31:P4:131:PRO:CB	2.73	0.48
23:B4:32:ASP:HB2	23:B4:46:LYS:HG2	1.94	0.48
24:D4:64:ARG:CZ	29:K4:95:ARG:HH21	2.25	0.48
26:F4:106:GLU:HG2	26:F4:107:ASN:N	2.29	0.48
29:K4:27:VAL:HG13	29:K4:43:LEU:HD13	1.95	0.48
31:P4:123:TYR:C	31:P4:123:TYR:HD1	2.22	0.48
1:T5:33:TRP:HH2	1:T5:102:ARG:HH11	1.60	0.48
8:f5:80:ARG:CD	21:i5:1509:U:O4	2.62	0.48
8:f5:87:THR:HG22	8:f5:90:LYS:CE	2.15	0.48
8:f5:92:LYS:C	21:i5:1304:U:C4'	2.65	0.48
9:g5:206:LEU:HD22	9:g5:221:LEU:H	1.79	0.48
10:C5:189:GLY:C	10:C5:191:VAL:H	2.22	0.48
12:J5:172:ARG:HD3	21:i5:562:U:C5	2.48	0.48
12:J5:181:GLY:O	12:J5:185:ALA:N	2.46	0.48
15:O5:54:CYS:SG	15:O5:84:ARG:HB3	2.52	0.48
15:O5:130:GLU:HG2	15:O5:131:ASP:N	2.28	0.48
18:Z5:66:LYS:HA	18:Z5:111:ARG:HB3	1.95	0.48
21:i5:833:C:O2'	21:i5:834:C:OP1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:847:A:C6	21:i5:848:U:H1'	2.48	0.48
21:i5:1240:A:C2	31:P5:100:LYS:CB	2.96	0.48
22:A5:214:GLU:OE1	33:R5:84:TYR:HD1	1.94	0.48
24:D5:161:GLY:O	24:D5:164:VAL:HG12	2.12	0.48
29:K5:31:LYS:HA	29:K5:41:PRO:HA	1.95	0.48
9:g6:121:VAL:HG23	9:g6:156:PHE:CZ	2.48	0.48
10:C6:106:VAL:HG22	10:C6:128:VAL:HG22	1.94	0.48
11:G6:220:ALA:HA	11:G6:223:LYS:NZ	2.29	0.48
14:N6:40:LEU:HD22	14:N6:45:LEU:HD12	1.95	0.48
17:Y6:125:VAL:O	17:Y6:129:LYS:HG3	2.12	0.48
19:b6:36:LYS:HB2	19:b6:78:SER:OG	2.13	0.48
20:e6:28:LYS:HG3	21:i6:524:U:O2'	2.14	0.48
20:e6:32:ALA:HB2	21:i6:525:A:H5''	1.95	0.48
21:i6:28:U:H2'	21:i6:29:G:H8	1.78	0.48
21:i6:388:U:C4	21:i6:389:A:N7	2.81	0.48
21:i6:957:A:H1'	21:i6:958:G:H5'	1.96	0.48
22:A6:32:PHE:CE2	22:A6:33:GLN:HG3	2.48	0.48
31:P6:29:SER:O	31:P6:33:LEU:HG	2.13	0.48
36:k1:33:PHE:CE1	36:k1:92:LEU:CD1	2.88	0.48
36:k2:85:LEU:HD23	36:k2:142:ALA:CB	2.43	0.48
36:k6:36:ILE:HB	36:k6:91:ILE:HG21	1.94	0.48
37:l1:128:VAL:CG2	37:l1:166:ILE:C	2.70	0.48
1:T1:23:LYS:HE3	1:T1:51:ASN:OD1	2.13	0.48
9:g1:64:HIS:CE1	9:g1:84:ASP:HB3	2.48	0.48
11:G1:137:ARG:HG3	21:i1:170:A:H5'	1.95	0.48
12:J1:181:GLY:O	12:J1:185:ALA:N	2.46	0.48
15:O1:68:GLU:OE2	21:i1:958:G:N2	2.47	0.48
15:O1:103:ASN:CG	15:O1:142:ARG:HB2	2.39	0.48
15:O1:139:SER:HB3	21:i1:983:A:C2	2.49	0.48
16:W1:65:LEU:C	16:W1:67:GLY:H	2.22	0.48
19:b1:74:THR:O	19:b1:76:GLY:N	2.46	0.48
21:i1:315:C:H2'	21:i1:316:G:C8	2.48	0.48
21:i1:1237:C:H4'	31:P1:130:ARG:O	2.14	0.48
21:i1:1392:U:H2'	21:i1:1393:G:H8	1.78	0.48
21:i1:1673:U:H5''	32:Q1:78:VAL:HB	1.95	0.48
21:i1:1842:C:H2'	35:j1:4:LYS:HZ3	1.78	0.48
21:i1:1854:U:H2'	21:i1:1855:G:H8	1.77	0.48
22:A1:210:ILE:HG13	22:A1:211:GLU:N	2.22	0.48
26:F1:125:SER:OG	26:F1:137:GLN:O	2.32	0.48
28:I1:8:TRP:HZ3	28:I1:20:PRO:HB3	1.78	0.48
29:K1:59:LYS:O	29:K1:70:TYR:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q1:4:LYS:HZ3	32:Q1:99:TYR:HA	1.63	0.48
33:R1:44:LYS:HG3	33:R1:47:ARG:NH2	2.28	0.48
1:T2:23:LYS:HE3	1:T2:51:ASN:OD1	2.13	0.48
9:g2:68:ASP:OD1	9:g2:69:VAL:N	2.44	0.48
9:g2:206:LEU:HD22	9:g2:221:LEU:H	1.79	0.48
10:C2:196:ILE:HG23	10:C2:223:TYR:HB2	1.95	0.48
16:W2:65:LEU:C	16:W2:67:GLY:H	2.21	0.48
19:b2:36:LYS:HB2	19:b2:78:SER:OG	2.13	0.48
21:i2:847:A:C6	21:i2:848:U:H1'	2.48	0.48
21:i2:1392:U:H2'	21:i2:1393:G:H8	1.78	0.48
21:i2:1622:U:OP2	21:i2:1623:A:O2'	2.26	0.48
22:A2:214:GLU:HB2	22:A2:215:GLN:OE1	2.13	0.48
27:H2:73:GLN:HB3	27:H2:135:PHE:CZ	2.48	0.48
29:K2:45:VAL:HA	29:K2:48:ALA:HB3	1.96	0.48
30:L2:89:ARG:HA	30:L2:108:ASN:HA	1.95	0.48
9:g3:121:VAL:HG23	9:g3:156:PHE:CZ	2.48	0.48
21:i3:181:A:H8	21:i3:182:C:O2	1.97	0.48
21:i3:1378:A:P	22:A3:105:PRO:HG3	2.52	0.48
21:i3:1410:C:H42	21:i3:1435:C:H42	1.61	0.48
22:A3:108:PHE:HB2	22:A3:136:GLU:HB3	1.94	0.48
23:B3:32:ASP:HB2	23:B3:46:LYS:HG2	1.94	0.48
23:B3:97:LEU:HD22	23:B3:232:HIS:CD2	2.49	0.48
25:E3:79:ASP:CG	25:E3:80:ILE:H	2.22	0.48
26:F3:35:LEU:HD21	26:F3:146:ARG:HD3	1.94	0.48
29:K3:15:LEU:HD21	29:K3:71:LEU:HD11	1.95	0.48
34:S3:108:ARG:CZ	21:i6:1760:G:N2	2.76	0.48
8:f4:87:THR:HB	8:f4:90:LYS:HE2	1.94	0.48
12:J4:86:VAL:HG21	12:J4:105:PHE:CE1	2.49	0.48
21:i4:1060:A:O2'	21:i4:1062:A:N7	2.45	0.48
21:i4:1079:C:O2'	21:i4:1182:A:N1	2.45	0.48
21:i4:1240:A:C2	31:P4:100:LYS:CB	2.96	0.48
21:i4:1717:C:O3'	35:j4:21:ARG:CD	2.60	0.48
28:I4:42:ARG:HG3	28:I4:58:LEU:HB2	1.94	0.48
30:L4:35:ARG:NE	30:L4:50:ALA:O	2.45	0.48
34:S4:128:GLY:O	34:S4:144:ARG:NH2	2.45	0.48
1:T5:41:LYS:HD2	21:i5:1627:C:H5'	1.95	0.48
8:f5:105:TYR:CE1	8:f5:131:PHE:CZ	3.00	0.48
11:G5:159:ARG:NH2	21:i5:77:A:O3'	2.46	0.48
13:M5:42:LEU:HG	13:M5:74:ILE:HD13	1.95	0.48
15:O5:68:GLU:OE2	21:i5:958:G:N2	2.47	0.48
19:b5:36:LYS:HB2	19:b5:78:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:40:A:H61	21:i5:514:U:H3	1.61	0.48
21:i5:317:C:H3'	21:i5:317:C:H6	1.78	0.48
21:i5:1473:G:N2	21:i5:1475:G:O5'	2.47	0.48
21:i5:1569:A:O2'	21:i5:1626:C:O2	2.25	0.48
26:F5:70:GLU:O	26:F5:73:THR:OG1	2.30	0.48
30:L5:69:ARG:HH22	30:L5:132:ARG:HA	1.78	0.48
30:L5:89:ARG:HA	30:L5:108:ASN:HA	1.95	0.48
32:Q5:39:LEU:HD23	32:Q5:52:LEU:HA	1.95	0.48
33:R5:58:MET:O	33:R5:61:ILE:HG13	2.13	0.48
2:U6:17:ILE:HG21	2:U6:94:PRO:CB	2.38	0.48
3:V6:56:CYS:HB3	3:V6:59:ILE:HG12	1.96	0.48
8:f6:96:LYS:CG	21:i6:1307:U:C5	2.97	0.48
11:G6:194:LEU:HA	11:G6:197:GLN:HB3	1.95	0.48
17:Y6:15:ASN:HD21	17:Y6:20:ARG:HH21	1.60	0.48
21:i6:1022:U:H5'	21:i6:1023:A:C8	2.48	0.48
21:i6:1380:C:O2'	22:A6:112:ILE:O	2.30	0.48
21:i6:1531:A:OP2	26:F6:81:ARG:NH1	2.46	0.48
21:i6:1694:U:HO2'	21:i6:1833:C:HO2'	1.39	0.48
26:F6:158:ALA:HB2	26:F6:173:LEU:HB3	1.95	0.48
33:R6:41:ILE:HD13	33:R6:47:ARG:HB2	1.96	0.48
34:S6:128:GLY:O	34:S6:144:ARG:NH2	2.45	0.48
36:k1:11:VAL:CG2	36:k1:177:MET:HE3	2.42	0.48
36:k1:11:VAL:HG22	36:k1:177:MET:HE1	1.95	0.48
36:k1:86:HIS:ND1	36:k1:141:HIS:CG	2.82	0.48
36:k1:109:ALA:C	36:k1:166:ASN:HD22	2.15	0.48
36:k2:9:GLU:O	36:k2:56:HIS:HE1	1.95	0.48
37:l1:130:ARG:C	37:l1:131:VAL:CG2	2.86	0.48
37:l5:127:TYR:CD2	37:l5:169:ASP:HB3	2.47	0.48
1:T1:41:LYS:HD2	21:i1:1627:C:H5'	1.96	0.48
3:V1:56:CYS:HB3	3:V1:59:ILE:HG12	1.96	0.48
5:a1:13:LYS:HD2	21:i1:1133:A:H4'	1.95	0.48
11:G1:135:PRO:HB3	11:G1:140:ARG:HG3	1.95	0.48
11:G1:153:VAL:C	11:G1:155:GLN:N	2.69	0.48
11:G1:209:TYR:O	11:G1:214:ALA:N	2.46	0.48
18:Z1:80:ARG:O	21:i1:1599:U:OP2	2.32	0.48
21:i1:52:G:N2	21:i1:507:G:O6	2.46	0.48
21:i1:1083:A:O2'	21:i1:1858:G:N2	2.44	0.48
21:i1:1143:A:O2'	21:i1:1355:C:N4	2.44	0.48
21:i1:1473:G:N2	21:i1:1475:G:O5'	2.46	0.48
21:i1:1702:G:H2'	21:i1:1703:C:O4'	2.13	0.48
26:F1:136:ARG:C	26:F1:203:ASN:ND2	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:L1:121:GLN:HB3	30:L1:153:LYS:CD	2.28	0.48
31:P1:29:SER:O	31:P1:33:LEU:HG	2.14	0.48
1:T2:5:THR:OG1	1:T2:6:VAL:N	2.44	0.48
2:U2:56:MET:HE1	21:i2:1580:A:H8	1.78	0.48
11:G2:121:ILE:O	11:G2:125:THR:OG1	2.30	0.48
11:G2:137:ARG:HG3	21:i2:170:A:H5'	1.95	0.48
11:G2:139:SER:HA	11:G2:142:ARG:CD	2.43	0.48
11:G2:159:ARG:HH11	21:i2:75:G:H21	1.60	0.48
21:i2:1383:A:H2'	21:i2:1384:C:C6	2.48	0.48
23:B2:36:PRO:HD3	23:B2:98:THR:HG23	1.95	0.48
25:E2:68:ARG:HG3	25:E2:76:VAL:HG21	1.95	0.48
31:P2:96:VAL:CG2	31:P2:116:LEU:HD13	1.87	0.48
33:R2:21:TYR:CE2	33:R2:72:LYS:HE2	2.49	0.48
5:a3:13:LYS:HD2	21:i3:1133:A:H4'	1.95	0.48
5:a3:100:ARG:CG	5:a3:100:ARG:NH1	2.73	0.48
10:C3:106:VAL:HG22	10:C3:128:VAL:HG22	1.94	0.48
14:N3:4:MET:HE2	14:N3:5:HIS:NE2	2.29	0.48
14:N3:40:LEU:HD22	14:N3:45:LEU:HD12	1.95	0.48
15:O3:68:GLU:OE2	21:i3:958:G:N2	2.47	0.48
15:O3:130:GLU:HG2	15:O3:131:ASP:N	2.28	0.48
18:Z3:75:GLU:HA	18:Z3:75:GLU:OE1	2.13	0.48
18:Z3:85:ARG:NH1	21:i3:1596:U:H6	2.02	0.48
21:i3:388:U:N3	21:i3:389:A:N7	2.61	0.48
21:i3:1232:U:H2'	21:i3:1233:G:H8	1.78	0.48
21:i3:1288:U:O2'	21:i3:1312:G:N2	2.46	0.48
21:i3:1342:U:N3	21:i3:1483:A:N1	2.61	0.48
29:K3:93:THR:CB	29:K3:95:ARG:HH12	2.25	0.48
1:T4:40:ALA:H	1:T4:96:SER:HB2	1.78	0.48
9:g4:40:ILE:HD12	9:g4:90:TRP:HE1	1.78	0.48
11:G4:194:LEU:O	11:G4:198:ARG:N	2.43	0.48
13:M4:42:LEU:HG	13:M4:74:ILE:HD13	1.95	0.48
15:O4:68:GLU:OE2	21:i4:958:G:N2	2.47	0.48
21:i4:377:G:H5'	28:I4:98:LYS:HE2	1.95	0.48
21:i4:500:A:H3'	21:i4:501:C:C6	2.47	0.48
21:i4:833:C:O2'	21:i4:834:C:OP1	2.28	0.48
21:i4:1380:C:O2'	22:A4:113:GLN:HB3	2.13	0.48
29:K4:45:VAL:HA	29:K4:48:ALA:HB3	1.96	0.48
32:Q4:96:TYR:HA	32:Q4:100:VAL:HG22	1.95	0.48
1:T5:40:ALA:H	1:T5:96:SER:HB2	1.78	0.48
8:f5:80:ARG:HD2	21:i5:1509:U:H3	0.65	0.48
9:g5:292:SER:OG	9:g5:293:ALA:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z5:80:ARG:O	21:i5:1599:U:OP2	2.32	0.48
21:i5:1406:G:H22	21:i5:1441:U:H3	1.62	0.48
26:F5:125:SER:OG	26:F5:137:GLN:O	2.32	0.48
27:H5:145:ARG:NH1	27:H5:153:LEU:HD12	2.28	0.48
29:K5:27:VAL:HG13	29:K5:43:LEU:HD13	1.94	0.48
2:U6:56:MET:HE1	21:i6:1580:A:H8	1.78	0.48
9:g6:40:ILE:HD12	9:g6:90:TRP:HE1	1.78	0.48
9:g6:64:HIS:CE1	9:g6:84:ASP:HB3	2.48	0.48
9:g6:194:TYR:O	9:g6:211:GLY:HA3	2.12	0.48
21:i6:40:A:H61	21:i6:514:U:H3	1.61	0.48
21:i6:77:A:H2'	21:i6:78:C:O4'	2.14	0.48
21:i6:103:A:N6	21:i6:356:C:O4'	2.46	0.48
21:i6:1069:U:OP2	36:k6:18:LYS:NZ	2.45	0.48
21:i6:1288:U:O2'	21:i6:1312:G:N2	2.47	0.48
21:i6:1693:G:N2	21:i6:1834:A:C8	2.82	0.48
25:E6:68:ARG:HG3	25:E6:76:VAL:HG21	1.95	0.48
36:k1:169:TYR:CZ	36:k1:172:ASP:CB	2.96	0.48
36:k4:82:LEU:CD1	36:k4:169:TYR:CA	2.91	0.48
37:l1:115:VAL:HG22	37:l1:132:CYS:O	2.14	0.48
37:l2:164:ILE:O	37:l2:165:ILE:CD1	2.53	0.48
1:T1:35:ASP:CB	34:S1:46:ARG:NE	2.62	0.48
2:U1:56:MET:HE1	21:i1:1580:A:H8	1.78	0.48
7:d1:22:ARG:HA	29:K1:65:ARG:HE	1.79	0.48
12:J1:30:LYS:HB3	20:e1:42:PHE:HE2	1.75	0.48
21:i1:61:A:N6	21:i1:334:C:HO2'	2.08	0.48
21:i1:311:C:H4'	21:i1:339:A:H4'	1.94	0.48
21:i1:1137:U:O2'	21:i1:1138:C:OP1	2.29	0.48
21:i1:1232:U:H2'	21:i1:1233:G:H8	1.78	0.48
21:i1:1288:U:O2'	21:i1:1312:G:N2	2.47	0.48
21:i1:1376:A:H3'	22:A1:102:ARG:HE	1.78	0.48
26:F1:38:TYR:HD1	26:F1:144:LEU:HD13	1.77	0.48
26:F1:171:GLU:HA	26:F1:174:ALA:HB3	1.95	0.48
28:I1:163:GLU:HG2	15:O6:63:LYS:CE	2.36	0.48
1:T2:33:TRP:HH2	1:T2:102:ARG:HH11	1.60	0.48
14:N2:133:ARG:CD	30:L2:152:LYS:HE2	2.14	0.48
15:O2:54:CYS:SG	15:O2:84:ARG:HB3	2.52	0.48
15:O2:139:SER:HB3	21:i2:983:A:H2	1.79	0.48
18:Z2:80:ARG:O	21:i2:1599:U:OP2	2.31	0.48
18:Z2:103:HIS:HE2	26:F2:91:ARG:HD2	1.79	0.48
21:i2:28:U:H2'	21:i2:29:G:H8	1.78	0.48
26:F2:115:ALA:O	26:F2:119:SER:OG	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F2:125:SER:OG	26:F2:137:GLN:O	2.32	0.48
27:H2:185:VAL:HB	27:H2:187:PHE:CE1	2.49	0.48
30:L2:69:ARG:HH22	30:L2:132:ARG:HA	1.78	0.48
31:P2:115:TYR:H	31:P2:115:TYR:HD2	1.52	0.48
33:R2:21:TYR:CE2	33:R2:72:LYS:NZ	2.82	0.48
3:V3:56:CYS:HB3	3:V3:59:ILE:HG12	1.96	0.48
5:a3:102:ARG:CB	5:a3:103:PRO:HA	2.40	0.48
16:W3:65:LEU:C	16:W3:67:GLY:H	2.22	0.48
19:b3:21:LYS:O	19:b3:23:ARG:N	2.38	0.48
21:i3:1383:A:H2'	21:i3:1384:C:C6	2.48	0.48
24:D3:64:ARG:CZ	29:K3:95:ARG:HH21	2.25	0.48
27:H3:18:GLU:HG2	27:H3:19:PHE:H	1.78	0.48
29:K3:45:VAL:HA	29:K3:48:ALA:HB3	1.96	0.48
30:L3:89:ARG:HA	30:L3:108:ASN:HA	1.95	0.48
31:P3:29:SER:O	31:P3:33:LEU:HG	2.13	0.48
1:T4:38:LYS:H	34:S4:39:ARG:HH22	1.62	0.48
4:X4:48:LYS:H	21:i4:483:C:H5'	1.78	0.48
6:c4:16:LYS:HE3	6:c4:31:ARG:HH21	1.78	0.48
8:f4:96:LYS:CG	21:i4:1307:U:C5	2.97	0.48
11:G4:137:ARG:HG3	21:i4:170:A:H5'	1.95	0.48
13:M4:54:SER:OG	13:M4:78:LYS:HB3	2.14	0.48
15:O4:66:ARG:HB3	21:i4:963:A:OP2	2.14	0.48
15:O4:103:ASN:CG	15:O4:142:ARG:HB2	2.39	0.48
15:O4:139:SER:HB3	21:i4:983:A:H2	1.79	0.48
21:i4:52:G:N2	21:i4:507:G:O6	2.46	0.48
21:i4:1313:A:H5''	21:i4:1314:U:H5	1.79	0.48
25:E4:68:ARG:HG3	25:E4:76:VAL:HG21	1.96	0.48
26:F4:120:GLY:O	26:F4:146:ARG:NH2	2.47	0.48
27:H4:185:VAL:HB	27:H4:187:PHE:CE1	2.49	0.48
28:I4:79:ILE:HG21	28:I4:170:LYS:HZ2	1.78	0.48
31:P4:41:GLN:CB	31:P4:84:ILE:CD1	2.57	0.48
32:Q4:39:LEU:HD23	32:Q4:52:LEU:HA	1.95	0.48
3:V5:56:CYS:HB3	3:V5:59:ILE:HG12	1.96	0.48
11:G5:199:THR:HG21	21:i5:126:G:H8	1.77	0.48
13:M5:61:TYR:OH	13:M5:108:CYS:SG	2.65	0.48
16:W5:2:VAL:O	16:W5:4:MET:N	2.46	0.48
16:W5:65:LEU:C	16:W5:67:GLY:H	2.21	0.48
16:W5:80:ASP:OD1	16:W5:124:LYS:HG2	2.12	0.48
21:i5:192:C:OP2	28:I5:141:ARG:NE	2.47	0.48
21:i5:500:A:H3'	21:i5:501:C:C6	2.48	0.48
21:i5:1237:C:H4'	31:P5:130:ARG:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1347:U:H2'	21:i5:1348:G:C8	2.48	0.48
21:i5:1752:C:O2	21:i5:1780:G:N1	2.38	0.48
21:i5:1854:U:H2'	21:i5:1855:G:H8	1.77	0.48
25:E5:195:ILE:O	25:E5:197:ASN:N	2.45	0.48
26:F5:136:ARG:C	26:F5:203:ASN:ND2	2.72	0.48
29:K5:43:LEU:HG	29:K5:44:HIS:ND1	2.27	0.48
31:P5:115:TYR:CD2	31:P5:115:TYR:N	2.73	0.48
31:P5:123:TYR:C	31:P5:123:TYR:HD1	2.21	0.48
2:U6:17:ILE:HG23	2:U6:95:SER:N	1.90	0.48
5:a6:102:ARG:CB	5:a6:103:PRO:HA	2.40	0.48
8:f6:105:TYR:OH	8:f6:131:PHE:CD2	2.59	0.48
21:i6:1208:A:H61	21:i6:1209:A:N6	2.10	0.48
21:i6:1473:G:N2	21:i6:1475:G:O5'	2.47	0.48
23:B6:192:SER:O	23:B6:196:ASP:N	2.45	0.48
24:D6:71:ALA:O	24:D6:75:LYS:N	2.47	0.48
27:H6:145:ARG:NH1	27:H6:153:LEU:HD12	2.28	0.48
29:K6:31:LYS:HA	29:K6:41:PRO:HA	1.95	0.48
32:Q6:39:LEU:HD23	32:Q6:52:LEU:HA	1.95	0.48
36:k6:96:GLN:HE22	36:k6:122:LYS:HD3	1.78	0.48
37:l3:125:LYS:O	37:l3:168:GLY:HA2	2.14	0.48
37:l3:128:VAL:CG2	37:l3:166:ILE:C	2.70	0.48
37:l4:125:LYS:O	37:l4:168:GLY:HA2	2.14	0.48
2:U1:50:VAL:HG23	2:U1:91:LEU:HD21	1.95	0.48
5:a1:102:ARG:CB	5:a1:103:PRO:CA	2.87	0.48
8:f1:96:LYS:CG	21:i1:1307:U:C5	2.97	0.48
9:g1:112:ALA:HB3	9:g1:121:VAL:HB	1.95	0.48
10:C1:196:ILE:HG23	10:C1:223:TYR:HB2	1.95	0.48
11:G1:139:SER:O	11:G1:142:ARG:CB	2.62	0.48
15:O1:66:ARG:HB3	21:i1:963:A:OP2	2.14	0.48
18:Z1:104:ARG:HH21	26:F1:91:ARG:HH12	1.62	0.48
21:i1:795:A:H62	27:H1:109:ARG:NH2	2.10	0.48
21:i1:847:A:C6	21:i1:848:U:H1'	2.48	0.48
28:I1:125:LYS:HD2	15:O6:66:ARG:HD3	0.50	0.48
30:L1:89:ARG:HA	30:L1:108:ASN:HA	1.95	0.48
32:Q1:47:LEU:O	32:Q1:49:TYR:N	2.47	0.48
4:X2:54:LYS:HE2	20:e2:6:LEU:CD1	2.43	0.48
12:J2:61:LEU:HD12	12:J2:70:ARG:HH22	1.79	0.48
14:N2:148:ALA:CB	14:N2:149:LEU:CA	2.85	0.48
21:i2:172:U:N3	21:i2:336:A:O2'	2.45	0.48
21:i2:316:G:N1	21:i2:335:G:N2	2.61	0.48
21:i2:912:C:O2'	21:i2:913:A:OP1	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1754:G:O6	21:i2:1779:G:C2	2.65	0.48
23:B2:63:LYS:HG3	23:B2:89:GLU:O	2.13	0.48
24:D2:64:ARG:CG	29:K2:95:ARG:HH22	2.27	0.48
30:L2:73:LEU:HD22	30:L2:90:ARG:HH21	1.78	0.48
33:R2:69:ILE:HG23	33:R2:70:SER:HA	1.95	0.48
7:d3:22:ARG:HA	29:K3:65:ARG:HE	1.79	0.48
10:C3:205:VAL:HG12	21:i3:1:U:H1'	1.96	0.48
14:N3:136:PRO:HB2	14:N3:139:TRP:HB2	1.96	0.48
15:O3:103:ASN:CG	15:O3:142:ARG:HB2	2.39	0.48
18:Z3:41:ARG:HH12	21:i6:211:G:H4'	1.78	0.48
21:i3:316:G:N1	21:i3:335:G:N1	2.61	0.48
25:E3:68:ARG:HG3	25:E3:76:VAL:HG21	1.95	0.48
1:T4:5:THR:OG1	1:T4:6:VAL:N	2.44	0.48
9:g4:135:LEU:HD12	9:g4:137:VAL:H	1.79	0.48
9:g4:185:LYS:O	24:D4:227:LYS:N	2.22	0.48
15:O4:46:ASP:OD1	15:O4:53:ILE:HD11	2.14	0.48
21:i4:493:A:H61	21:i4:510:G:H1'	1.79	0.48
21:i4:957:A:H1'	21:i4:958:G:H5'	1.96	0.48
21:i4:1410:C:H42	21:i4:1435:C:H42	1.61	0.48
21:i4:1473:G:N2	21:i4:1475:G:O5'	2.47	0.48
21:i4:1553:C:H4'	21:i4:1554:C:H5	1.78	0.48
21:i4:1673:U:H5''	32:Q4:78:VAL:HB	1.95	0.48
21:i4:1776:G:N3	21:i4:1776:G:C5'	2.73	0.48
29:K4:31:LYS:HA	29:K4:41:PRO:HA	1.96	0.48
31:P4:29:SER:O	31:P4:33:LEU:HG	2.14	0.48
2:U5:56:MET:HE1	21:i5:1580:A:H8	1.78	0.48
2:U5:117:ALA:O	2:U5:118:ASP:HB2	2.13	0.48
4:X5:22:TRP:NE1	21:i5:359:U:OP1	2.37	0.48
6:c5:44:ARG:HA	6:c5:64:GLU:O	2.13	0.48
6:c5:47:LYS:HZ1	26:F5:145:ARG:HG2	1.78	0.48
10:C5:65:LYS:HA	10:C5:277:HIS:HE1	1.71	0.48
21:i5:482:G:N1	21:i5:485:A:OP2	2.45	0.48
21:i5:527:C:H2'	21:i5:528:A:C8	2.48	0.48
21:i5:1232:U:H2'	21:i5:1233:G:H8	1.78	0.48
28:I5:8:TRP:HZ3	28:I5:20:PRO:HB3	1.77	0.48
28:I5:130:THR:HB	28:I5:131:PRO:HD3	1.96	0.48
31:P5:41:GLN:OE1	31:P5:84:ILE:HD13	2.14	0.48
1:T6:23:LYS:HE3	1:T6:51:ASN:OD1	2.13	0.48
1:T6:41:LYS:HD2	21:i6:1627:C:H5'	1.95	0.48
9:g6:112:ALA:HB3	9:g6:121:VAL:HB	1.95	0.48
11:G6:139:SER:HA	11:G6:142:ARG:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:735:C:C6	21:i6:735:C:C3'	2.96	0.48
21:i6:1377:U:H2'	22:A6:105:PRO:HG2	1.96	0.48
23:B6:97:LEU:HD22	23:B6:232:HIS:CD2	2.49	0.48
23:B6:228:LEU:HG	23:B6:232:HIS:HB2	1.96	0.48
36:k2:120:GLY:O	36:k2:137:GLU:OE2	2.32	0.48
36:k6:79:TYR:CD1	36:k6:131:ILE:CG1	2.97	0.48
36:k6:146:GLY:HA2	36:k6:167:ILE:CD1	2.44	0.48
37:l2:128:VAL:HG13	37:l2:166:ILE:H	1.20	0.48
37:l2:130:ARG:C	37:l2:131:VAL:CG2	2.86	0.48
37:l3:115:VAL:HG22	37:l3:132:CYS:O	2.14	0.48
1:T1:40:ALA:H	1:T1:96:SER:HB2	1.79	0.48
4:X1:67:ARG:NH2	21:i1:617:G:N7	2.53	0.48
11:G1:121:ILE:O	11:G1:125:THR:OG1	2.30	0.48
18:Z1:84:ALA:O	18:Z1:88:LEU:HG	2.13	0.48
21:i1:122:G:H1	21:i1:342:C:H42	1.62	0.48
21:i1:1313:A:H5''	21:i1:1314:U:H5	1.79	0.48
24:D1:64:ARG:HG3	29:K1:95:ARG:HH22	1.76	0.48
24:D1:121:GLY:O	24:D1:125:PHE:N	2.41	0.48
27:H1:73:GLN:HB3	27:H1:135:PHE:CZ	2.48	0.48
33:R1:77:GLU:CG	33:R1:81:ARG:HG3	2.42	0.48
3:V2:65:SER:O	3:V2:68:SER:OG	2.23	0.48
12:J2:86:VAL:HG21	12:J2:105:PHE:CE1	2.49	0.48
12:J2:181:GLY:O	12:J2:185:ALA:N	2.46	0.48
15:O2:130:GLU:HG2	15:O2:131:ASP:N	2.29	0.48
18:Z2:66:LYS:HA	18:Z2:111:ARG:HB3	1.95	0.48
21:i2:1060:A:O2'	21:i2:1062:A:N7	2.46	0.48
21:i2:1347:U:H2'	21:i2:1348:G:C8	2.49	0.48
27:H2:37:LYS:O	27:H2:39:GLN:N	2.47	0.48
29:K2:15:LEU:HD21	29:K2:71:LEU:HD11	1.95	0.48
2:U3:19:ARG:NH2	2:U3:90:ASP:OD2	2.47	0.48
8:f3:96:LYS:CG	21:i3:1307:U:C5	2.97	0.48
9:g3:135:LEU:HD12	9:g3:137:VAL:H	1.79	0.48
12:J3:61:LEU:HD12	12:J3:70:ARG:HH22	1.79	0.48
17:Y3:112:ASN:HD22	21:i3:53:C:P	2.37	0.48
18:Z3:50:PHE:O	34:S3:5:ILE:HG22	1.93	0.48
21:i3:493:A:H61	21:i3:510:G:H1'	1.79	0.48
21:i3:730:C:OP2	21:i3:730:C:H4'	2.14	0.48
21:i3:1300:U:O4	31:P3:51:ARG:HD2	1.98	0.48
21:i3:1377:U:C3'	22:A3:102:ARG:HH21	2.27	0.48
30:L3:124:ASP:HB2	30:L3:147:LYS:HB3	1.96	0.48
2:U4:17:ILE:HG23	2:U4:95:SER:N	1.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:96:LYS:CB	21:i4:1307:U:H5	2.21	0.48
9:g4:64:HIS:CE1	9:g4:84:ASP:HB3	2.48	0.48
10:C4:273:LEU:CD1	10:C4:280:VAL:HG21	2.44	0.48
10:C4:273:LEU:HB3	10:C4:280:VAL:HG13	1.64	0.48
12:J4:174:LYS:HD3	21:i4:560:A:H5'	1.96	0.48
15:O4:66:ARG:NH2	21:i4:962:A:O3'	2.43	0.48
21:i4:1310:U:H2'	21:i4:1311:C:O4'	2.14	0.48
22:A4:6:ASP:O	22:A4:9:GLN:NE2	2.34	0.48
22:A4:34:MET:HE1	22:A4:148:CYS:HB2	1.96	0.48
30:L4:89:ARG:HA	30:L4:108:ASN:HA	1.95	0.48
35:j4:24:SER:OG	35:j4:24:SER:O	2.32	0.48
8:f5:96:LYS:CG	21:i5:1307:U:C5	2.97	0.48
9:g5:135:LEU:HD12	9:g5:137:VAL:H	1.79	0.48
10:C5:205:VAL:HG12	21:i5:1:U:H1'	1.96	0.48
11:G5:135:PRO:HB3	11:G5:140:ARG:HG3	1.95	0.48
11:G5:194:LEU:O	11:G5:198:ARG:N	2.43	0.48
15:O5:66:ARG:HB3	21:i5:963:A:OP2	2.14	0.48
15:O5:139:SER:HB3	21:i5:983:A:H2	1.79	0.48
20:e5:31:ARG:NH1	21:i5:525:A:H4'	2.29	0.48
21:i5:211:G:H3'	21:i5:212:C:C5	2.49	0.48
21:i5:795:A:H62	27:H5:109:ARG:NH2	2.10	0.48
21:i5:957:A:H1'	21:i5:958:G:H5'	1.96	0.48
21:i5:1703:C:H2'	21:i5:1704:C:O4'	2.14	0.48
21:i5:1852:C:C5	35:j5:5:TRP:CD1	3.01	0.48
22:A5:91:ALA:HB3	22:A5:98:PRO:HB3	1.95	0.48
33:R5:41:ILE:HD13	33:R5:47:ARG:HB2	1.96	0.48
9:g6:206:LEU:HD22	9:g6:221:LEU:H	1.79	0.48
10:C6:196:ILE:HG23	10:C6:223:TYR:HB2	1.95	0.48
11:G6:159:ARG:NH2	21:i6:77:A:O3'	2.46	0.48
12:J6:86:VAL:HG21	12:J6:105:PHE:CE1	2.49	0.48
15:O6:72:TYR:HA	15:O6:75:MET:SD	2.53	0.48
18:Z6:80:ARG:O	21:i6:1599:U:OP2	2.31	0.48
21:i6:13:C:O2'	21:i6:1355:C:C4	2.66	0.48
21:i6:628:A:N3	24:D6:179:GLN:HG3	2.28	0.48
21:i6:847:A:C6	21:i6:848:U:H1'	2.49	0.48
21:i6:1237:C:H4'	31:P6:130:ARG:O	2.14	0.48
21:i6:1351:G:C2'	21:i6:1352:G:C8	2.72	0.48
21:i6:1410:C:H42	21:i6:1435:C:H42	1.61	0.48
32:Q6:34:VAL:N	32:Q6:37:ARG:O	2.25	0.48
36:k1:145:VAL:C	36:k1:167:ILE:CB	2.60	0.48
36:k5:36:ILE:CA	36:k5:91:ILE:HG21	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k6:169:TYR:N	36:k6:169:TYR:HD2	2.12	0.48
37:l1:182:TRP:CE3	37:l1:183:PRO:HB3	2.46	0.48
37:l2:142:LYS:HE2	37:l2:146:ARG:HH11	1.78	0.48
37:l5:142:LYS:HE2	37:l5:146:ARG:HH11	1.78	0.48
1:T1:38:LYS:H	34:S1:39:ARG:HH22	1.62	0.48
9:g1:121:VAL:HG23	9:g1:156:PHE:CZ	2.49	0.48
10:C1:189:GLY:CA	21:i1:1355:C:H1'	2.44	0.48
21:i1:1170:A:N6	21:i1:1189:A:OP2	2.41	0.48
21:i1:1210:G:H21	21:i1:1690:U:H1'	1.76	0.48
21:i1:1236:G:H5'	31:P1:133:ILE:HG21	1.95	0.48
21:i1:1703:C:H2'	21:i1:1704:C:O4'	2.14	0.48
29:K1:31:LYS:HA	29:K1:41:PRO:HA	1.96	0.48
31:P1:78:THR:HG22	31:P1:95:GLY:O	2.14	0.48
9:g2:40:ILE:HD12	9:g2:90:TRP:HE1	1.78	0.48
13:M2:120:ALA:O	13:M2:124:ILE:HG13	2.14	0.48
15:O2:66:ARG:HB3	21:i2:963:A:OP2	2.14	0.48
20:e2:36:MET:HE3	21:i2:553:U:OP1	2.13	0.48
21:i2:76:U:O2'	21:i2:78:C:OP2	2.25	0.48
21:i2:496:C:H2'	21:i2:497:C:C6	2.48	0.48
21:i2:556:U:O2'	21:i2:558:G:OP2	2.29	0.48
21:i2:628:A:N6	24:D2:145:GLN:CG	2.50	0.48
21:i2:1237:C:H4'	31:P2:130:ARG:O	2.14	0.48
22:A2:15:VAL:HG23	22:A2:16:LEU:HD12	1.95	0.48
25:E2:79:ASP:CG	25:E2:80:ILE:H	2.22	0.48
27:H2:145:ARG:NH1	27:H2:153:LEU:HD12	2.28	0.48
28:I2:142:SER:O	28:I2:144:LYS:N	2.47	0.48
29:K2:32:HIS:N	29:K2:41:PRO:HA	2.22	0.48
31:P2:41:GLN:NE2	31:P2:84:ILE:CG2	2.52	0.48
1:T3:38:LYS:H	34:S3:39:ARG:HH22	1.61	0.48
10:C3:125:LYS:HA	10:C3:143:CYS:HA	1.95	0.48
12:J3:181:GLY:O	12:J3:185:ALA:N	2.46	0.48
15:O3:72:TYR:HA	15:O3:75:MET:SD	2.53	0.48
21:i3:795:A:H62	27:H3:109:ARG:NH2	2.10	0.48
21:i3:1280:G:H1'	21:i3:1318:G:H22	1.77	0.48
21:i3:1569:A:O2'	21:i3:1626:C:O2	2.25	0.48
9:g4:215:GLN:HG2	9:g4:231:ASP:HB3	1.96	0.48
10:C4:65:LYS:HZ2	10:C4:280:VAL:HB	1.76	0.48
11:G4:190:ARG:NH2	21:i4:332:G:C5	2.82	0.48
11:G4:209:TYR:O	11:G4:214:ALA:N	2.46	0.48
21:i4:527:C:H2'	21:i4:528:A:C8	2.49	0.48
21:i4:847:A:C6	21:i4:848:U:H1'	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:171:GLU:HA	26:F4:174:ALA:HB3	1.95	0.48
28:I4:130:THR:HB	28:I4:131:PRO:HD3	1.96	0.48
1:T5:36:THR:OG1	34:S5:80:PRO:HG2	2.13	0.48
2:U5:59:LYS:HG2	24:D5:8:LYS:NZ	2.28	0.48
8:f5:141:CYS:HB2	38:f5:500:ZN:ZN	1.35	0.48
9:g5:60:ARG:H	32:Q5:97:GLN:NE2	2.11	0.48
11:G5:209:TYR:O	11:G5:214:ALA:N	2.46	0.48
14:N5:40:LEU:HD22	14:N5:45:LEU:HD12	1.95	0.48
15:O5:103:ASN:CG	15:O5:142:ARG:HB2	2.39	0.48
16:W5:88:LYS:NZ	21:i5:420:G:OP1	2.44	0.48
18:Z5:84:ALA:O	18:Z5:88:LEU:HG	2.14	0.48
21:i5:377:G:H5'	28:I5:98:LYS:HE2	1.95	0.48
21:i5:690:G:H22	21:i5:738:C:H42	1.61	0.48
1:T6:33:TRP:HH2	1:T6:102:ARG:HH11	1.60	0.48
2:U6:50:VAL:HG23	2:U6:91:LEU:HD21	1.96	0.48
9:g6:107:ASP:HB3	9:g6:125:ARG:HG2	1.96	0.48
9:g6:292:SER:OG	9:g6:293:ALA:N	2.45	0.48
13:M6:120:ALA:O	13:M6:124:ILE:HG13	2.14	0.48
15:O6:46:ASP:OD1	15:O6:53:ILE:HD11	2.14	0.48
16:W6:76:SER:HB2	16:W6:77:PRO:HD3	1.95	0.48
17:Y6:15:ASN:HD21	17:Y6:20:ARG:NH2	2.12	0.48
18:Z6:66:LYS:HA	18:Z6:111:ARG:HB3	1.95	0.48
21:i6:52:G:N2	21:i6:507:G:O6	2.46	0.48
21:i6:190:G:H22	21:i6:208:G:H3'	1.78	0.48
21:i6:380:G:H5''	28:I6:31:ARG:NH1	2.29	0.48
21:i6:500:A:H3'	21:i6:501:C:C6	2.47	0.48
21:i6:1013:U:OP1	21:i6:1129:G:O2'	2.32	0.48
21:i6:1351:G:N1	21:i6:1352:G:C5	2.81	0.48
21:i6:1360:U:O5'	21:i6:1360:U:H6	1.97	0.48
21:i6:1383:A:H2'	21:i6:1384:C:C6	2.48	0.48
26:F6:35:LEU:HD21	26:F6:146:ARG:HD3	1.95	0.48
27:H6:185:VAL:HB	27:H6:187:PHE:CE1	2.49	0.48
30:L6:69:ARG:HH22	30:L6:132:ARG:HA	1.78	0.48
30:L6:73:LEU:HD22	30:L6:90:ARG:HH21	1.78	0.48
36:k5:80:PRO:HG3	36:k5:92:LEU:HD12	1.95	0.48
37:l2:125:LYS:O	37:l2:168:GLY:HA2	2.14	0.48
37:l3:182:TRP:CE3	37:l3:183:PRO:HB3	2.46	0.48
37:l6:185:VAL:HA	37:l6:186:ASP:HA	1.51	0.48
6:c1:14:VAL:HG23	6:c1:53:GLY:H	1.79	0.47
9:g1:107:ASP:HB3	9:g1:125:ARG:HG2	1.96	0.47
9:g1:215:GLN:HG2	9:g1:231:ASP:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C1:244:ILE:HA	10:C1:247:THR:HG23	1.95	0.47
21:i1:13:C:C4'	21:i1:1356:G:H1'	2.44	0.47
21:i1:93:U:O2'	25:E1:8:HIS:ND1	2.43	0.47
21:i1:377:G:H5'	28:I1:98:LYS:HE2	1.95	0.47
21:i1:1539:U:H3	21:i1:1594:A:H61	1.62	0.47
25:E1:68:ARG:HG3	25:E1:76:VAL:HG21	1.95	0.47
28:I1:123:ARG:NE	15:O6:64:ALA:C	2.72	0.47
28:I1:123:ARG:HD3	15:O6:64:ALA:HA	1.95	0.47
29:K1:45:VAL:HA	29:K1:48:ALA:HB3	1.96	0.47
29:K1:93:THR:CB	29:K1:95:ARG:HH12	2.25	0.47
2:U2:19:ARG:NH2	2:U2:90:ASP:OD2	2.47	0.47
7:d2:22:ARG:HA	29:K2:65:ARG:HE	1.79	0.47
8:f2:87:THR:HB	8:f2:90:LYS:HE2	1.95	0.47
9:g2:15:ASN:HD21	21:i2:1472:C:H4'	1.78	0.47
10:C2:279:ARG:C	10:C2:280:VAL:CG1	2.76	0.47
11:G2:164:LYS:HD2	11:G2:167:LYS:HB2	1.96	0.47
11:G2:194:LEU:O	11:G2:198:ARG:N	2.43	0.47
12:J2:57:ALA:O	12:J2:61:LEU:N	2.47	0.47
13:M2:54:SER:OG	13:M2:78:LYS:HB3	2.14	0.47
14:N2:4:MET:HE2	14:N2:5:HIS:NE2	2.29	0.47
16:W2:120:HIS:NE2	21:i2:805:U:O3'	2.42	0.47
18:Z2:84:ALA:O	18:Z2:88:LEU:HG	2.14	0.47
21:i2:1751:C:N3	21:i2:1784:G:N7	2.62	0.47
30:L2:16:ILE:HG23	30:L2:36:TYR:HB2	1.96	0.47
1:T3:33:TRP:HH2	1:T3:102:ARG:HH11	1.60	0.47
8:f3:87:THR:HB	8:f3:90:LYS:HE2	1.95	0.47
11:G3:194:LEU:HA	11:G3:197:GLN:HB3	1.96	0.47
18:Z3:66:LYS:HA	18:Z3:111:ARG:HB3	1.95	0.47
18:Z3:80:ARG:O	21:i3:1599:U:OP2	2.32	0.47
21:i3:28:U:H2'	21:i3:29:G:H8	1.78	0.47
21:i3:689:U:H6	21:i3:689:U:H3'	1.79	0.47
21:i3:1406:G:H22	21:i3:1441:U:H3	1.62	0.47
21:i3:1539:U:H3	21:i3:1594:A:H61	1.62	0.47
21:i3:1670:C:H2'	21:i3:1671:G:C8	2.49	0.47
26:F3:136:ARG:C	26:F3:203:ASN:ND2	2.72	0.47
33:R3:41:ILE:HD13	33:R3:47:ARG:HB2	1.96	0.47
33:R3:80:ARG:C	33:R3:82:ASP:H	2.22	0.47
3:V4:56:CYS:HB3	3:V4:59:ILE:HG12	1.95	0.47
9:g4:112:ALA:HB3	9:g4:121:VAL:HB	1.95	0.47
11:G4:210:ALA:O	11:G4:215:LYS:HB2	2.14	0.47
19:b4:36:LYS:HD3	19:b4:43:ILE:HG22	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:335:G:H2'	21:i4:336:A:C8	2.49	0.47
21:i4:1232:U:H2'	21:i4:1233:G:H8	1.78	0.47
21:i4:1288:U:O2'	21:i4:1312:G:N2	2.46	0.47
26:F4:70:GLU:O	26:F4:73:THR:OG1	2.30	0.47
27:H4:105:THR:OG1	27:H4:106:ARG:N	2.46	0.47
31:P4:78:THR:HG22	31:P4:95:GLY:O	2.14	0.47
9:g5:112:ALA:HB3	9:g5:121:VAL:HB	1.95	0.47
10:C5:125:LYS:HA	10:C5:143:CYS:HA	1.95	0.47
11:G5:14:LYS:HG2	11:G5:124:LEU:HD11	1.96	0.47
15:O5:46:ASP:OD1	15:O5:53:ILE:HD11	2.14	0.47
19:b5:31:TYR:O	19:b5:48:SER:OG	2.19	0.47
21:i5:1310:U:H2'	21:i5:1311:C:O4'	2.14	0.47
21:i5:1650:A:H3'	21:i5:1651:A:H8	1.78	0.47
21:i5:1673:U:H5''	32:Q5:78:VAL:HB	1.95	0.47
27:H5:185:VAL:HB	27:H5:187:PHE:CE1	2.49	0.47
10:C6:142:LYS:HD3	10:C6:154:ALA:N	2.29	0.47
11:G6:121:ILE:O	11:G6:125:THR:OG1	2.30	0.47
13:M6:42:LEU:HG	13:M6:74:ILE:HD13	1.95	0.47
15:O6:66:ARG:HB3	21:i6:963:A:OP2	2.14	0.47
21:i6:482:G:N1	21:i6:485:A:OP2	2.45	0.47
21:i6:1232:U:H2'	21:i6:1233:G:H8	1.78	0.47
21:i6:1650:A:H3'	21:i6:1651:A:H8	1.78	0.47
23:B6:40:ASN:N	23:B6:75:GLN:OE1	2.34	0.47
26:F6:125:SER:OG	26:F6:137:GLN:O	2.32	0.47
26:F6:127:ARG:NE	26:F6:128:ILE:HG23	2.17	0.47
28:I6:42:ARG:HG3	28:I6:58:LEU:HB2	1.94	0.47
29:K6:57:TYR:O	29:K6:72:THR:OG1	2.20	0.47
30:L6:152:LYS:HD2	30:L6:152:LYS:H	1.78	0.47
31:P6:41:GLN:CD	31:P6:84:ILE:CG1	2.85	0.47
36:k5:36:ILE:CA	36:k5:91:ILE:CG2	2.92	0.47
37:l4:115:VAL:HG22	37:l4:132:CYS:O	2.13	0.47
37:l5:113:GLN:HA	37:l5:114:LYS:HA	1.58	0.47
37:l5:130:ARG:C	37:l5:131:VAL:CG2	2.86	0.47
9:g1:292:SER:OG	9:g1:293:ALA:N	2.45	0.47
11:G1:220:ALA:HA	11:G1:223:LYS:NZ	2.29	0.47
15:O1:139:SER:HB3	21:i1:983:A:H2	1.79	0.47
18:Z1:104:ARG:HG3	21:i1:1594:A:OP2	2.14	0.47
21:i1:77:A:H2'	21:i1:78:C:O4'	2.14	0.47
21:i1:649:U:H2'	21:i1:650:A:O4'	2.14	0.47
21:i1:1670:C:H2'	21:i1:1671:G:C8	2.50	0.47
22:A1:210:ILE:CG1	22:A1:211:GLU:N	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E1:176:ASP:OD1	25:E1:177:THR:N	2.41	0.47
26:F1:106:GLU:HG2	26:F1:107:ASN:N	2.29	0.47
27:H1:145:ARG:NH1	27:H1:153:LEU:HD12	2.28	0.47
28:I1:142:SER:O	28:I1:144:LYS:N	2.47	0.47
29:K1:51:SER:O	29:K1:54:SER:OG	2.25	0.47
33:R1:41:ILE:HD13	33:R1:47:ARG:HB2	1.96	0.47
1:T2:40:ALA:H	1:T2:96:SER:HB2	1.78	0.47
1:T2:41:LYS:HD2	21:i2:1627:C:H5'	1.96	0.47
11:G2:199:THR:HG21	21:i2:126:G:H8	1.77	0.47
16:W2:2:VAL:O	16:W2:4:MET:N	2.46	0.47
17:Y2:112:ASN:HD22	21:i2:53:C:P	2.37	0.47
23:B2:40:ASN:N	23:B2:75:GLN:OE1	2.34	0.47
9:g3:206:LEU:HD22	9:g3:221:LEU:H	1.78	0.47
12:J3:57:ALA:O	12:J3:61:LEU:N	2.47	0.47
15:O3:46:ASP:OD1	15:O3:53:ILE:HD11	2.14	0.47
15:O3:66:ARG:NH1	28:I6:125:LYS:HZ2	2.09	0.47
16:W3:121:THR:O	16:W3:122:GLY:O	2.32	0.47
21:i3:187:G:N3	21:i3:213:G:C2	2.82	0.47
21:i3:509:G:H2'	21:i3:510:G:H8	1.80	0.47
22:A3:91:ALA:HB3	22:A3:98:PRO:HB3	1.95	0.47
27:H3:73:GLN:HB3	27:H3:135:PHE:CZ	2.48	0.47
28:I3:119:LEU:HD12	28:I3:153:LYS:HE3	1.97	0.47
30:L3:69:ARG:HH22	30:L3:132:ARG:HA	1.78	0.47
31:P3:78:THR:HG22	31:P3:95:GLY:O	2.14	0.47
33:R3:27:ASP:O	33:R3:30:THR:OG1	2.24	0.47
9:g4:107:ASP:HB3	9:g4:125:ARG:HG2	1.96	0.47
11:G4:139:SER:O	11:G4:142:ARG:CB	2.62	0.47
11:G4:164:LYS:HD2	11:G4:167:LYS:HB2	1.96	0.47
21:i4:196:C:O2'	21:i4:203:G:N2	2.43	0.47
21:i4:1214:A:O2'	21:i4:1216:C:OP1	2.28	0.47
21:i4:1718:G:P	35:j4:21:ARG:NE	2.76	0.47
24:D4:121:GLY:O	24:D4:125:PHE:N	2.41	0.47
26:F4:125:SER:OG	26:F4:137:GLN:O	2.32	0.47
30:L4:16:ILE:HG23	30:L4:36:TYR:HB2	1.97	0.47
6:c5:23:SER:OG	6:c5:24:GLN:N	2.44	0.47
9:g5:15:ASN:HD21	21:i5:1472:C:H4'	1.78	0.47
9:g5:215:GLN:HG2	9:g5:231:ASP:HB3	1.96	0.47
10:C5:65:LYS:CA	10:C5:277:HIS:HE1	2.24	0.47
11:G5:77:LEU:N	11:G5:93:LYS:O	2.44	0.47
11:G5:210:ALA:O	11:G5:215:LYS:HB2	2.14	0.47
15:O5:139:SER:HB3	21:i5:983:A:C2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1183:A:H2'	21:i5:1184:G:H8	1.77	0.47
12:J6:61:LEU:HD12	12:J6:70:ARG:HH22	1.79	0.47
12:J6:177:ASN:CG	21:i6:560:A:OP1	2.57	0.47
17:Y6:112:ASN:HD22	21:i6:53:C:P	2.38	0.47
21:i6:800:U:H3	21:i6:865:A:H2	1.62	0.47
21:i6:1069:U:P	36:k6:18:LYS:HZ3	2.37	0.47
21:i6:1236:G:H5''	31:P6:133:ILE:CG1	2.40	0.47
21:i6:1347:U:H2'	21:i6:1348:G:C8	2.49	0.47
34:S6:6:PRO:CD	34:S6:58:GLU:HG2	2.42	0.47
36:k2:79:TYR:HD1	36:k2:131:ILE:CG2	2.23	0.47
36:k3:18:LYS:O	36:k3:22:ILE:CD1	2.63	0.47
36:k3:120:GLY:O	36:k3:137:GLU:OE2	2.32	0.47
36:k3:145:VAL:HB	36:k3:167:ILE:HB	1.95	0.47
36:k4:17:LEU:HB2	36:k4:50:VAL:CG2	2.33	0.47
36:k6:120:GLY:O	36:k6:137:GLU:OE2	2.32	0.47
37:l1:125:LYS:O	37:l1:168:GLY:HA2	2.14	0.47
37:l3:130:ARG:C	37:l3:131:VAL:CG2	2.86	0.47
37:l6:142:LYS:HE2	37:l6:146:ARG:HH11	1.78	0.47
5:a1:44:ILE:HD11	15:O1:97:LEU:HD23	1.97	0.47
9:g1:135:LEU:HD12	9:g1:137:VAL:H	1.79	0.47
11:G1:66:GLY:CA	21:i1:1745:A:H8	2.26	0.47
11:G1:210:ALA:O	11:G1:215:LYS:HB2	2.14	0.47
13:M1:54:SER:OG	13:M1:78:LYS:HB3	2.14	0.47
17:Y1:20:ARG:NH1	17:Y1:22:GLN:OE1	2.44	0.47
21:i1:1208:A:O2'	21:i1:1835:A:N7	2.43	0.47
23:B1:228:LEU:HG	23:B1:232:HIS:HB2	1.96	0.47
27:H1:185:VAL:HB	27:H1:187:PHE:CE1	2.49	0.47
28:I1:158:ILE:CD1	15:O6:63:LYS:HZ1	2.11	0.47
8:f2:105:TYR:CD2	8:f2:106:TYR:CD2	2.96	0.47
9:g2:135:LEU:HD12	9:g2:137:VAL:H	1.79	0.47
18:Z2:104:ARG:HH21	26:F2:91:ARG:HH12	1.62	0.47
21:i2:122:G:H1	21:i2:342:C:H42	1.62	0.47
21:i2:377:G:H5'	28:I2:98:LYS:HE2	1.95	0.47
23:B2:97:LEU:HD22	23:B2:232:HIS:CD2	2.48	0.47
23:B2:173:THR:HG23	23:B2:177:GLN:OE1	2.14	0.47
26:F2:136:ARG:C	26:F2:203:ASN:ND2	2.72	0.47
28:I2:119:LEU:HD12	28:I2:153:LYS:HE3	1.97	0.47
29:K2:93:THR:CB	29:K2:95:ARG:HH12	2.25	0.47
4:X3:125:VAL:HG22	4:X3:126:ALA:H	1.78	0.47
8:f3:105:TYR:CE1	8:f3:131:PHE:CB	2.85	0.47
9:g3:112:ALA:HB3	9:g3:121:VAL:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:e3:28:LYS:HB2	21:i3:525:A:P	2.53	0.47
21:i3:440:G:OP1	28:I3:24:LYS:NZ	2.41	0.47
21:i3:450:C:H2'	21:i3:451:G:H5''	1.96	0.47
21:i3:525:A:H2'	21:i3:526:A:C8	2.49	0.47
21:i3:1703:C:H2'	21:i3:1704:C:O4'	2.14	0.47
22:A3:217:ALA:HB1	22:A3:220:LYS:CE	2.34	0.47
23:B3:71:LEU:HA	23:B3:74:LEU:HB3	1.97	0.47
24:D3:132:LYS:HE3	24:D3:189:MET:HE2	1.97	0.47
26:F3:125:SER:OG	26:F3:137:GLN:O	2.32	0.47
27:H3:185:VAL:HB	27:H3:187:PHE:CE1	2.49	0.47
9:g4:121:VAL:HG23	9:g4:156:PHE:CZ	2.49	0.47
11:G4:37:ALA:HA	11:G4:49:VAL:HA	1.95	0.47
16:W4:111:MET:CE	16:W4:119:LYS:NZ	2.73	0.47
17:Y4:112:ASN:HD22	21:i4:53:C:P	2.37	0.47
21:i4:217:A:H2'	21:i4:218:U:H5'	1.95	0.47
21:i4:598:G:O2'	21:i4:605:A:N1	2.42	0.47
23:B4:173:THR:HG23	23:B4:177:GLN:OE1	2.14	0.47
26:F4:136:ARG:C	26:F4:203:ASN:ND2	2.72	0.47
28:I4:142:SER:O	28:I4:144:LYS:N	2.47	0.47
32:Q4:47:LEU:O	32:Q4:49:TYR:N	2.47	0.47
2:U5:86:LYS:O	2:U5:87:ARG:NH2	2.44	0.47
5:a5:13:LYS:HD2	21:i5:1133:A:H4'	1.95	0.47
9:g5:250:ALA:HB3	9:g5:257:LYS:HB3	1.97	0.47
11:G5:164:LYS:HD2	11:G5:167:LYS:HB2	1.97	0.47
13:M5:27:ILE:HG23	29:K5:84:HIS:CG	2.41	0.47
21:i5:122:G:H1	21:i5:342:C:H42	1.63	0.47
21:i5:319:C:O2	21:i5:332:G:N2	2.47	0.47
21:i5:368:U:H3	36:k4:110:ASN:N	2.12	0.47
31:P5:18:ARG:HA	34:S5:93:GLY:N	2.29	0.47
32:Q5:47:LEU:O	32:Q5:49:TYR:N	2.47	0.47
4:X6:88:ASP:HB2	20:e6:10:GLY:HA2	1.96	0.47
15:O6:68:GLU:OE2	21:i6:958:G:N2	2.47	0.47
15:O6:103:ASN:CG	15:O6:142:ARG:HB2	2.39	0.47
16:W6:72:CYS:HA	16:W6:129:PHE:HA	1.95	0.47
21:i6:217:A:H2'	21:i6:218:U:H5'	1.95	0.47
21:i6:1113:A:H2'	21:i6:1113:A:N3	2.29	0.47
21:i6:1353:A:H2'	21:i6:1354:G:C8	2.49	0.47
28:I6:79:ILE:HG21	28:I6:170:LYS:HD3	1.96	0.47
28:I6:142:SER:O	28:I6:144:LYS:N	2.47	0.47
30:L6:16:ILE:HG23	30:L6:36:TYR:HB2	1.97	0.47
35:j6:24:SER:OG	35:j6:24:SER:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k1:120:GLY:O	36:k1:137:GLU:OE2	2.32	0.47
36:k1:171:ASN:HA	36:k1:176:HIS:NE2	2.30	0.47
37:l1:142:LYS:HE2	37:l1:146:ARG:HH11	1.78	0.47
37:l1:182:TRP:HE3	37:l1:183:PRO:CB	2.26	0.47
10:C1:68:ARG:CD	10:C1:277:HIS:HB3	2.36	0.47
12:J1:131:ARG:NH1	21:i1:563:G:HO2'	2.10	0.47
15:O1:46:ASP:OD1	15:O1:53:ILE:HD11	2.14	0.47
18:Z1:66:LYS:HA	18:Z1:111:ARG:HB3	1.95	0.47
21:i1:184:G:P	21:i1:185:G:OP2	2.72	0.47
21:i1:1415:C:H2'	21:i1:1417:C:H5'	1.97	0.47
22:A1:15:VAL:HG23	22:A1:16:LEU:HD12	1.95	0.47
23:B1:173:THR:HG23	23:B1:177:GLN:OE1	2.14	0.47
27:H1:105:THR:OG1	27:H1:106:ARG:N	2.45	0.47
32:Q1:34:VAL:N	32:Q1:37:ARG:O	2.25	0.47
6:c2:29:GLN:HA	6:c2:45:ASN:HA	1.97	0.47
8:f2:96:LYS:CG	21:i2:1307:U:C5	2.97	0.47
10:C2:125:LYS:HA	10:C2:143:CYS:HA	1.95	0.47
13:M2:28:HIS:NE2	13:M2:116:LYS:HE3	2.22	0.47
21:i2:649:U:H2'	21:i2:650:A:O4'	2.15	0.47
21:i2:1079:C:O2'	21:i2:1182:A:N1	2.45	0.47
21:i2:1113:A:H2'	21:i2:1113:A:N3	2.29	0.47
21:i2:1280:G:H1'	21:i2:1318:G:H22	1.77	0.47
21:i2:1313:A:H5''	21:i2:1314:U:H5	1.79	0.47
21:i2:1406:G:H22	21:i2:1441:U:H3	1.62	0.47
21:i2:1531:A:OP2	26:F2:81:ARG:NH1	2.46	0.47
27:H2:18:GLU:HG2	27:H2:19:PHE:H	1.78	0.47
32:Q2:47:LEU:O	32:Q2:49:TYR:N	2.47	0.47
2:U3:50:VAL:HG23	2:U3:91:LEU:HD21	1.95	0.47
8:f3:92:LYS:HG2	21:i3:1303:C:O2'	2.15	0.47
9:g3:15:ASN:HD21	21:i3:1472:C:H4'	1.78	0.47
10:C3:273:LEU:CD1	10:C3:280:VAL:HG21	2.44	0.47
13:M3:101:ARG:HG3	13:M3:102:LYS:N	2.30	0.47
15:O3:66:ARG:HB3	21:i3:963:A:OP2	2.14	0.47
21:i3:500:A:H3'	21:i3:501:C:C6	2.47	0.47
21:i3:847:A:C6	21:i3:848:U:H1'	2.48	0.47
21:i3:1849:G:OP2	37:l3:146:ARG:NH2	2.47	0.47
26:F3:182:LYS:NZ	21:i6:200:G:C3'	2.77	0.47
30:L3:16:ILE:HG23	30:L3:36:TYR:HB2	1.97	0.47
33:R3:63:ARG:HG2	33:R3:63:ARG:NH1	2.27	0.47
34:S3:50:ILE:HD12	34:S3:67:VAL:HG23	1.83	0.47
5:a4:44:ILE:HD11	15:O4:97:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:92:LYS:HG2	21:i4:1303:C:O2'	2.15	0.47
9:g4:5:MET:HG3	9:g4:270:LEU:HD12	1.97	0.47
10:C4:125:LYS:HE3	21:i4:1357:A:OP1	2.14	0.47
11:G4:220:ALA:HA	11:G4:223:LYS:NZ	2.29	0.47
16:W4:76:SER:HB2	16:W4:77:PRO:HD3	1.96	0.47
18:Z4:85:ARG:NH2	18:Z4:85:ARG:CG	2.73	0.47
22:A4:214:GLU:HB2	22:A4:215:GLN:OE1	2.14	0.47
23:B4:97:LEU:HD22	23:B4:232:HIS:CD2	2.48	0.47
24:D4:64:ARG:HD3	29:K4:95:ARG:NH2	2.24	0.47
33:R4:44:LYS:HG3	33:R4:47:ARG:NH2	2.27	0.47
3:V5:16:LYS:HA	3:V5:23:ILE:HA	1.95	0.47
9:g5:107:ASP:HB3	9:g5:125:ARG:HG2	1.96	0.47
10:C5:273:LEU:CD1	10:C5:280:VAL:HG21	2.44	0.47
10:C5:277:HIS:O	10:C5:279:ARG:N	2.36	0.47
15:O5:14:VAL:N	15:O5:15:ILE:HA	2.26	0.47
17:Y5:15:ASN:HD21	17:Y5:20:ARG:NH2	2.12	0.47
17:Y5:17:LEU:HD22	25:E5:69:PHE:CE1	2.50	0.47
18:Z5:103:HIS:HE2	26:F5:91:ARG:HD2	1.79	0.47
18:Z5:104:ARG:HG3	21:i5:1594:A:OP2	2.15	0.47
21:i5:186:C:H2'	21:i5:187:G:C8	2.49	0.47
28:I5:119:LEU:HD12	28:I5:153:LYS:HE3	1.97	0.47
33:R5:44:LYS:HG3	33:R5:47:ARG:NH2	2.27	0.47
10:C6:65:LYS:CG	10:C6:279:ARG:NE	2.74	0.47
12:J6:57:ALA:O	12:J6:61:LEU:N	2.47	0.47
14:N6:4:MET:HE2	14:N6:5:HIS:NE2	2.29	0.47
18:Z6:84:ALA:O	18:Z6:88:LEU:HG	2.13	0.47
21:i6:190:G:OP1	28:I6:149:TYR:OH	2.29	0.47
21:i6:833:C:O2'	21:i6:834:C:OP1	2.27	0.47
25:E6:79:ASP:CG	25:E6:80:ILE:H	2.22	0.47
36:k1:86:HIS:CD2	36:k1:141:HIS:HA	2.49	0.47
36:k1:180:TYR:O	36:k1:181:LYS:CB	2.56	0.47
36:k3:32:GLN:NE2	36:k3:131:ILE:HD12	2.29	0.47
36:k3:86:HIS:CD2	36:k3:142:ALA:H	2.33	0.47
36:k3:95:GLN:CB	36:k3:134:ILE:HD11	2.32	0.47
37:l2:182:TRP:CE3	37:l2:183:PRO:HB3	2.46	0.47
37:l4:128:VAL:HG13	37:l4:166:ILE:CB	2.41	0.47
37:l6:113:GLN:HA	37:l6:114:LYS:HA	1.58	0.47
37:l6:125:LYS:O	37:l6:168:GLY:HA2	2.14	0.47
9:g1:5:MET:HG3	9:g1:270:LEU:HD12	1.97	0.47
11:G1:164:LYS:HD2	11:G1:167:LYS:HB2	1.97	0.47
12:J1:86:VAL:HG21	12:J1:105:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:143:ASN:HB3	21:i1:823:U:H5	1.80	0.47
17:Y1:50:THR:O	17:Y1:51:THR:OG1	2.26	0.47
21:i1:903:A:H3'	21:i1:903:A:N3	2.30	0.47
21:i1:1531:A:OP2	26:F1:81:ARG:NH1	2.46	0.47
21:i1:1831:A:H2'	21:i1:1832:A:C8	2.49	0.47
23:B1:71:LEU:HA	23:B1:74:LEU:HB3	1.97	0.47
27:H1:72:PHE:HB3	27:H1:76:GLN:HG2	1.97	0.47
35:j1:24:SER:OG	35:j1:24:SER:O	2.32	0.47
2:U2:50:VAL:HG23	2:U2:91:LEU:HD21	1.95	0.47
11:G2:194:LEU:HA	11:G2:197:GLN:HB3	1.96	0.47
27:H2:72:PHE:HB3	27:H2:76:GLN:HG2	1.97	0.47
31:P2:123:TYR:C	31:P2:123:TYR:HD1	2.22	0.47
33:R2:54:VAL:O	33:R2:58:MET:HB2	2.13	0.47
1:T3:41:LYS:HD2	21:i3:1627:C:H5'	1.95	0.47
11:G3:14:LYS:HG2	11:G3:124:LEU:HD11	1.96	0.47
16:W3:121:THR:C	16:W3:122:GLY:O	2.58	0.47
18:Z3:84:ALA:O	18:Z3:88:LEU:HG	2.13	0.47
18:Z3:104:ARG:HG3	21:i3:1594:A:OP2	2.15	0.47
21:i3:1552:G:N3	21:i3:1557:C:N4	2.45	0.47
21:i3:1673:U:H5''	32:Q3:78:VAL:HB	1.95	0.47
24:D3:71:ALA:O	24:D3:75:LYS:N	2.47	0.47
26:F3:158:ALA:HB2	26:F3:173:LEU:HB3	1.94	0.47
32:Q3:39:LEU:HD23	32:Q3:52:LEU:HA	1.96	0.47
34:S3:128:GLY:O	34:S3:144:ARG:NH2	2.45	0.47
2:U4:50:VAL:HG23	2:U4:91:LEU:HD21	1.95	0.47
7:d4:22:ARG:HA	29:K4:65:ARG:HE	1.79	0.47
13:M4:101:ARG:HG3	13:M4:102:LYS:N	2.30	0.47
18:Z4:80:ARG:O	21:i4:1599:U:OP2	2.32	0.47
18:Z4:103:HIS:HE2	26:F4:91:ARG:HD2	1.79	0.47
18:Z4:104:ARG:HG3	21:i4:1594:A:OP2	2.15	0.47
21:i4:380:G:H5''	28:I4:31:ARG:NH1	2.29	0.47
21:i4:963:A:C6	21:i4:964:A:C6	3.03	0.47
21:i4:1204:A:H1'	21:i4:1699:A:H2'	1.97	0.47
21:i4:1755:C:O2'	21:i4:1777:G:N2	2.48	0.47
2:U5:19:ARG:NH2	2:U5:90:ASP:OD2	2.47	0.47
3:V5:66:ASP:OD1	3:V5:67:ASP:N	2.48	0.47
6:c5:16:LYS:HE3	6:c5:31:ARG:HH21	1.78	0.47
7:d5:22:ARG:HA	29:K5:65:ARG:HE	1.79	0.47
10:C5:64:THR:OG1	10:C5:279:ARG:NH2	2.48	0.47
11:G5:139:SER:O	11:G5:142:ARG:CB	2.62	0.47
12:J5:29:LEU:HD11	20:e5:37:GLN:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J5:86:VAL:HG21	12:J5:105:PHE:CE1	2.49	0.47
14:N5:84:LEU:HD23	14:N5:149:LEU:O	2.14	0.47
21:i5:1415:C:H2'	21:i5:1417:C:H5'	1.97	0.47
24:D5:64:ARG:CG	29:K5:95:ARG:HH22	2.27	0.47
30:L5:16:ILE:HG23	30:L5:36:TYR:HB2	1.96	0.47
34:S5:50:ILE:CD1	34:S5:67:VAL:HG21	2.44	0.47
9:g6:135:LEU:HD12	9:g6:137:VAL:H	1.79	0.47
11:G6:139:SER:O	11:G6:142:ARG:CB	2.62	0.47
15:O6:139:SER:HB3	21:i6:983:A:C2	2.49	0.47
18:Z6:103:HIS:HE2	26:F6:91:ARG:HD2	1.79	0.47
18:Z6:104:ARG:HG3	21:i6:1594:A:OP2	2.15	0.47
21:i6:649:U:H2'	21:i6:650:A:O4'	2.14	0.47
21:i6:1670:C:H2'	21:i6:1671:G:C8	2.50	0.47
31:P6:123:TYR:C	31:P6:123:TYR:HD1	2.22	0.47
36:k1:66:GLY:O	36:k1:179:THR:HG22	2.15	0.47
36:k2:109:ALA:C	36:k2:166:ASN:HD21	2.05	0.47
36:k3:171:ASN:HA	36:k3:176:HIS:NE2	2.30	0.47
36:k5:120:GLY:O	36:k5:137:GLU:OE2	2.32	0.47
36:k6:18:LYS:O	36:k6:22:ILE:CD1	2.63	0.47
37:l4:158:VAL:HG23	37:l4:164:ILE:CD1	2.45	0.47
37:l5:125:LYS:O	37:l5:168:GLY:HA2	2.14	0.47
37:l6:123:ALA:HB3	37:l6:126:LYS:HG2	1.96	0.47
6:c1:29:GLN:HA	6:c1:45:ASN:HA	1.97	0.47
10:C1:189:GLY:C	10:C1:191:VAL:H	2.22	0.47
13:M1:71:GLU:HG2	17:Y2:130:LYS:CE	2.42	0.47
13:M1:101:ARG:HG3	13:M1:102:LYS:N	2.30	0.47
21:i1:493:A:H61	21:i1:510:G:H1'	1.79	0.47
28:I1:119:LEU:HD12	28:I1:153:LYS:HE3	1.97	0.47
31:P1:41:GLN:CG	31:P1:84:ILE:HD13	2.45	0.47
31:P1:123:TYR:C	31:P1:123:TYR:HD1	2.22	0.47
33:R1:80:ARG:C	33:R1:82:ASP:H	2.22	0.47
1:T2:38:LYS:H	34:S2:39:ARG:HH22	1.62	0.47
2:U2:17:ILE:HG22	2:U2:18:HIS:N	2.25	0.47
3:V2:16:LYS:HA	3:V2:23:ILE:HA	1.95	0.47
4:X2:88:ASP:HB2	20:e2:10:GLY:HA2	1.97	0.47
10:C2:273:LEU:CD1	10:C2:280:VAL:HG21	2.45	0.47
21:i2:509:G:H2'	21:i2:510:G:H8	1.80	0.47
21:i2:1236:G:C5'	31:P2:133:ILE:HB	2.44	0.47
21:i2:1270:G:O2'	21:i2:1301:A:N7	2.42	0.47
24:D2:64:ARG:CG	29:K2:95:ARG:NH1	2.62	0.47
25:E2:42:LEU:HG	25:E2:46:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a3:44:ILE:HD11	15:O3:97:LEU:HD23	1.97	0.47
9:g3:5:MET:HG3	9:g3:270:LEU:HD12	1.97	0.47
9:g3:236:ILE:HG21	9:g3:239:LEU:HB2	1.97	0.47
9:g3:248:LEU:N	9:g3:259:TRP:O	2.29	0.47
11:G3:139:SER:O	11:G3:142:ARG:CB	2.62	0.47
15:O3:139:SER:HB3	21:i3:983:A:H2	1.79	0.47
17:Y3:58:PHE:O	17:Y3:72:PHE:N	2.32	0.47
21:i3:122:G:H1	21:i3:342:C:H42	1.63	0.47
21:i3:1199:A:H2'	21:i3:1200:A:O4'	2.14	0.47
21:i3:1237:C:H4'	31:P3:130:ARG:O	2.14	0.47
21:i3:1640:A:H2'	21:i3:1641:A:O4'	2.15	0.47
23:B3:173:THR:HG23	23:B3:177:GLN:OE1	2.14	0.47
26:F3:190:ILE:O	26:F3:194:ASP:N	2.48	0.47
27:H3:37:LYS:O	27:H3:39:GLN:N	2.47	0.47
3:V4:69:ILE:O	3:V4:73:ALA:N	2.38	0.47
9:g4:236:ILE:HG21	9:g4:239:LEU:HB2	1.97	0.47
9:g4:272:GLN:HB2	9:g4:308:ARG:NH1	2.30	0.47
10:C4:125:LYS:HA	10:C4:143:CYS:HA	1.95	0.47
10:C4:272:HIS:O	10:C4:274:VAL:N	2.42	0.47
11:G4:66:GLY:CA	21:i4:1745:A:H8	2.27	0.47
12:J4:61:LEU:HD12	12:J4:70:ARG:HH22	1.79	0.47
17:Y4:15:ASN:HD21	17:Y4:20:ARG:NH2	2.12	0.47
21:i4:50:A:H62	21:i4:477:G:H21	1.63	0.47
21:i4:1415:C:H2'	21:i4:1417:C:H5'	1.97	0.47
21:i4:1520:G:H5'	34:S4:136:THR:OG1	2.15	0.47
21:i4:1852:C:H2'	21:i4:1853:C:C6	2.50	0.47
22:A4:212:LYS:HE3	22:A4:212:LYS:HB3	1.63	0.47
23:B4:71:LEU:HA	23:B4:74:LEU:HB3	1.97	0.47
23:B4:228:LEU:HG	23:B4:232:HIS:HB2	1.96	0.47
24:D4:132:LYS:HE3	24:D4:189:MET:HE2	1.97	0.47
25:E4:42:LEU:HG	25:E4:46:ILE:HD11	1.96	0.47
31:P4:10:ARG:HB3	21:i5:1763:G:C4'	2.44	0.47
4:X5:88:ASP:HB2	20:e5:10:GLY:HA2	1.97	0.47
9:g5:64:HIS:CE1	9:g5:84:ASP:HB3	2.48	0.47
10:C5:196:ILE:HG23	10:C5:223:TYR:HB2	1.95	0.47
12:J5:107:GLU:O	12:J5:112:THR:OG1	2.33	0.47
13:M5:120:ALA:O	13:M5:124:ILE:HG13	2.14	0.47
16:W5:72:CYS:HA	16:W5:129:PHE:HA	1.96	0.47
21:i5:77:A:H2'	21:i5:78:C:O4'	2.14	0.47
21:i5:311:C:H4'	21:i5:339:A:H4'	1.95	0.47
21:i5:963:A:C6	21:i5:964:A:C6	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1113:A:H2'	21:i5:1113:A:N3	2.29	0.47
21:i5:1531:A:OP2	26:F5:81:ARG:NH1	2.46	0.47
23:B5:36:PRO:HD3	23:B5:98:THR:HG23	1.95	0.47
24:D5:132:LYS:HE3	24:D5:189:MET:HE2	1.97	0.47
27:H5:73:GLN:HB3	27:H5:135:PHE:CZ	2.48	0.47
2:U6:19:ARG:NH2	2:U6:90:ASP:OD2	2.47	0.47
2:U6:117:ALA:O	2:U6:118:ASP:HB2	2.13	0.47
3:V6:69:ILE:O	3:V6:73:ALA:N	2.38	0.47
9:g6:109:LEU:HB3	9:g6:110:SER:H	1.50	0.47
10:C6:64:THR:OG1	10:C6:279:ARG:NH2	2.48	0.47
14:N6:84:LEU:HD23	14:N6:149:LEU:O	2.15	0.47
21:i6:305:U:O2'	21:i6:309:G:OP2	2.29	0.47
30:L6:5:GLN:O	30:L6:7:GLU:N	2.46	0.47
31:P6:34:MET:CE	31:P6:46:ASN:HB2	2.43	0.47
36:k1:18:LYS:O	36:k1:22:ILE:CD1	2.63	0.47
36:k4:120:GLY:O	36:k4:137:GLU:OE2	2.32	0.47
36:k6:94:HIS:HB3	36:k6:133:ALA:HB3	1.96	0.47
5:a1:100:ARG:CB	5:a1:100:ARG:NH1	2.78	0.47
8:f1:92:LYS:HG2	21:i1:1303:C:O2'	2.15	0.47
9:g1:171:ASP:O	9:g1:173:LEU:HG	2.15	0.47
10:C1:118:ALA:HB3	21:i1:1486:A:O2'	2.15	0.47
11:G1:14:LYS:HG2	11:G1:124:LEU:HD11	1.96	0.47
13:M1:120:ALA:O	13:M1:124:ILE:HG13	2.14	0.47
16:W1:72:CYS:HA	16:W1:129:PHE:HA	1.96	0.47
21:i1:11:A:N3	21:i1:1357:A:C2'	2.72	0.47
21:i1:187:G:C4	21:i1:213:G:N2	2.83	0.47
21:i1:689:U:C4	27:H1:122:LEU:HD13	2.50	0.47
21:i1:1113:A:H2'	21:i1:1113:A:N3	2.29	0.47
21:i1:1310:U:H2'	21:i1:1311:C:O4'	2.14	0.47
21:i1:1622:U:OP2	21:i1:1623:A:O2'	2.26	0.47
24:D1:132:LYS:HE3	24:D1:189:MET:HE2	1.97	0.47
25:E1:56:LEU:HD23	25:E1:57:THR:HG23	1.97	0.47
27:H1:37:LYS:O	27:H1:39:GLN:N	2.47	0.47
4:X2:37:LYS:HE3	21:i2:1811:C:OP1	2.14	0.47
4:X2:125:VAL:HG22	4:X2:126:ALA:H	1.78	0.47
5:a2:44:ILE:HD11	15:O2:97:LEU:HD23	1.97	0.47
5:a2:100:ARG:CB	5:a2:100:ARG:NH1	2.78	0.47
8:f2:87:THR:HG21	8:f2:90:LYS:HZ3	1.62	0.47
8:f2:92:LYS:HG2	21:i2:1303:C:O2'	2.15	0.47
9:g2:11:LEU:H	9:g2:306:LEU:HD11	1.80	0.47
11:G2:139:SER:O	11:G2:142:ARG:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M2:61:TYR:OH	13:M2:108:CYS:SG	2.65	0.47
15:O2:46:ASP:OD1	15:O2:53:ILE:HD11	2.14	0.47
16:W2:72:CYS:HA	16:W2:129:PHE:HA	1.96	0.47
18:Z2:104:ARG:HG3	21:i2:1594:A:OP2	2.15	0.47
21:i2:40:A:H61	21:i2:514:U:H3	1.61	0.47
21:i2:50:A:H62	21:i2:477:G:H21	1.63	0.47
21:i2:115:U:O2'	21:i2:381:C:O2	2.28	0.47
21:i2:187:G:H21	21:i2:213:G:H1'	1.77	0.47
21:i2:450:C:H2'	21:i2:451:G:H5''	1.97	0.47
21:i2:957:A:H1'	21:i2:958:G:H5'	1.96	0.47
21:i2:963:A:C6	21:i2:964:A:C6	3.03	0.47
21:i2:1310:U:H2'	21:i2:1311:C:O4'	2.14	0.47
21:i2:1473:G:N2	21:i2:1475:G:O5'	2.46	0.47
21:i2:1780:G:C6	21:i2:1781:A:C8	3.03	0.47
21:i2:1828:C:P	37:l2:125:LYS:NZ	2.88	0.47
22:A2:214:GLU:CB	33:R2:84:TYR:CE1	2.98	0.47
23:B2:21:VAL:HG22	30:L4:31:GLU:O	1.98	0.47
24:D2:71:ALA:O	24:D2:75:LYS:N	2.47	0.47
26:F2:158:ALA:HB2	26:F2:173:LEU:HB3	1.95	0.47
26:F2:190:ILE:O	26:F2:194:ASP:N	2.48	0.47
31:P2:78:THR:HG22	31:P2:95:GLY:O	2.14	0.47
33:R2:80:ARG:C	33:R2:82:ASP:H	2.22	0.47
34:S2:90:VAL:HG21	34:S2:113:ARG:NH1	2.30	0.47
3:V3:16:LYS:HA	3:V3:23:ILE:HA	1.95	0.47
3:V3:66:ASP:OD1	3:V3:67:ASP:N	2.48	0.47
8:f3:98:VAL:O	8:f3:100:LEU:N	2.48	0.47
8:f3:105:TYR:CD2	8:f3:106:TYR:CD2	2.96	0.47
9:g3:65:PHE:O	9:g3:83:TRP:HD1	1.98	0.47
9:g3:185:LYS:O	24:D3:227:LYS:N	2.22	0.47
11:G3:121:ILE:O	11:G3:125:THR:OG1	2.30	0.47
11:G3:164:LYS:HD2	11:G3:167:LYS:HB2	1.97	0.47
11:G3:209:TYR:HD1	11:G3:213:LEU:HD23	1.80	0.47
11:G3:210:ALA:O	11:G3:215:LYS:HB2	2.14	0.47
12:J3:143:ASN:HB3	21:i3:823:U:H5	1.79	0.47
13:M3:120:ALA:O	13:M3:124:ILE:HG13	2.14	0.47
15:O3:66:ARG:NH2	21:i3:962:A:O3'	2.44	0.47
16:W3:72:CYS:HA	16:W3:129:PHE:HA	1.96	0.47
17:Y3:15:ASN:HD21	17:Y3:20:ARG:NH2	2.12	0.47
21:i3:93:U:O2'	25:E3:8:HIS:ND1	2.42	0.47
21:i3:380:G:H5''	28:I3:31:ARG:NH1	2.29	0.47
21:i3:867:G:H5'	30:L3:149:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:963:A:C6	21:i3:964:A:C6	3.03	0.47
21:i3:1270:G:O2'	21:i3:1301:A:N7	2.42	0.47
21:i3:1310:U:H2'	21:i3:1311:C:O4'	2.14	0.47
21:i3:1511:U:O2'	21:i3:1512:C:O5'	2.32	0.47
21:i3:1755:C:O2'	21:i3:1777:G:N2	2.48	0.47
21:i3:1842:C:H3'	35:j3:4:LYS:NZ	2.30	0.47
21:i3:1852:C:P	35:j3:1:MET:HA	2.54	0.47
21:i3:1852:C:H2'	21:i3:1853:C:C6	2.50	0.47
22:A3:214:GLU:HB2	22:A3:215:GLN:OE1	2.13	0.47
23:B3:197:ILE:O	23:B3:201:CYS:N	2.35	0.47
24:D3:64:ARG:CG	29:K3:95:ARG:NH1	2.63	0.47
28:I3:206:LYS:O	36:k1:12:SER:CB	2.63	0.47
31:P3:41:GLN:CG	31:P3:84:ILE:HD13	2.44	0.47
33:R3:102:THR:O	33:R3:105:MET:HG2	2.15	0.47
1:T4:41:LYS:HD2	21:i4:1627:C:H5'	1.96	0.47
3:V4:66:ASP:OD1	3:V4:67:ASP:N	2.48	0.47
9:g4:109:LEU:HB3	9:g4:110:SER:H	1.50	0.47
9:g4:206:LEU:HD22	9:g4:221:LEU:H	1.78	0.47
10:C4:189:GLY:C	10:C4:191:VAL:H	2.22	0.47
11:G4:68:LEU:O	11:G4:69:THR:OG1	2.28	0.47
11:G4:209:TYR:HD1	11:G4:213:LEU:HD23	1.79	0.47
12:J4:107:GLU:O	12:J4:112:THR:OG1	2.33	0.47
12:J4:125:HIS:CG	21:i4:526:A:O2'	2.68	0.47
14:N4:38:TYR:OH	14:N4:74:ILE:HG12	2.15	0.47
14:N4:101:HIS:HE2	14:N4:105:ASN:ND2	2.11	0.47
15:O4:130:GLU:HG2	15:O4:131:ASP:N	2.29	0.47
18:Z4:84:ALA:O	18:Z4:88:LEU:HG	2.14	0.47
21:i4:912:C:O2'	21:i4:913:A:OP1	2.30	0.47
21:i4:1199:A:H2'	21:i4:1200:A:O4'	2.15	0.47
21:i4:1569:A:O2'	21:i4:1626:C:O2	2.25	0.47
21:i4:1812:U:H2'	21:i4:1813:A:H5''	1.97	0.47
24:D4:138:VAL:HB	24:D4:150:MET:HB3	1.97	0.47
24:D4:167:TYR:OH	24:D4:201:LYS:O	2.30	0.47
27:H4:88:SER:O	27:H4:90:LYS:N	2.42	0.47
29:K4:93:THR:CB	29:K4:95:ARG:HH12	2.24	0.47
6:c5:29:GLN:HA	6:c5:45:ASN:HA	1.97	0.47
8:f5:98:VAL:O	8:f5:100:LEU:N	2.48	0.47
9:g5:171:ASP:O	9:g5:173:LEU:HG	2.15	0.47
11:G5:189:ARG:HD3	21:i5:329:G:C8	2.49	0.47
11:G5:194:LEU:HA	11:G5:197:GLN:HB3	1.96	0.47
14:N5:4:MET:HE2	14:N5:5:HIS:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N5:85:PRO:HD2	14:N5:135:LEU:HD21	1.96	0.47
16:W5:10:ALA:O	16:W5:13:SER:OG	2.24	0.47
18:Z5:46:ASN:ND2	18:Z5:79:ILE:O	2.48	0.47
18:Z5:104:ARG:HH21	26:F5:91:ARG:HH12	1.62	0.47
20:e5:45:VAL:O	20:e5:46:VAL:HB	2.15	0.47
21:i5:71:G:H3'	21:i5:72:C:H5''	1.97	0.47
21:i5:305:U:O2'	21:i5:309:G:OP2	2.29	0.47
21:i5:493:A:H61	21:i5:510:G:H1'	1.79	0.47
21:i5:509:G:H2'	21:i5:510:G:H8	1.80	0.47
21:i5:528:A:C2	21:i5:558:G:N1	2.72	0.47
21:i5:595:U:O2'	21:i5:596:U:O5'	2.31	0.47
21:i5:649:U:H2'	21:i5:650:A:O4'	2.14	0.47
21:i5:1208:A:C4	21:i5:1209:A:N7	2.83	0.47
21:i5:1313:A:H5''	21:i5:1314:U:H5	1.79	0.47
21:i5:1520:G:H5'	34:S5:136:THR:OG1	2.15	0.47
22:A5:34:MET:HE1	22:A5:148:CYS:HB2	1.97	0.47
23:B5:71:LEU:HA	23:B5:74:LEU:HB3	1.97	0.47
23:B5:228:LEU:HG	23:B5:232:HIS:HB2	1.96	0.47
24:D5:64:ARG:CZ	29:K5:95:ARG:HH21	2.25	0.47
25:E5:42:LEU:HG	25:E5:46:ILE:HD11	1.96	0.47
26:F5:171:GLU:HA	26:F5:174:ALA:HB3	1.95	0.47
30:L5:124:ASP:HB3	30:L5:147:LYS:CG	2.42	0.47
31:P5:16:THR:HG22	34:S5:91:LYS:O	2.14	0.47
2:U6:20:ILE:HD13	2:U6:116:ILE:O	2.15	0.47
3:V6:66:ASP:OD1	3:V6:67:ASP:N	2.48	0.47
5:a6:13:LYS:HD2	21:i6:1133:A:H4'	1.96	0.47
6:c6:14:VAL:HG23	6:c6:53:GLY:H	1.79	0.47
9:g6:5:MET:HG3	9:g6:270:LEU:HD12	1.97	0.47
9:g6:171:ASP:O	9:g6:173:LEU:HG	2.14	0.47
9:g6:215:GLN:HG2	9:g6:231:ASP:HB3	1.96	0.47
10:C6:273:LEU:CD1	10:C6:280:VAL:HG21	2.44	0.47
12:J6:60:LEU:HD11	12:J6:70:ARG:HA	1.97	0.47
13:M6:54:SER:OG	13:M6:78:LYS:HB3	2.14	0.47
13:M6:125:GLU:O	13:M6:129:LYS:CG	2.63	0.47
16:W6:4:MET:SD	21:i6:682:U:O2'	2.70	0.47
16:W6:88:LYS:NZ	21:i6:420:G:OP1	2.44	0.47
18:Z6:46:ASN:ND2	18:Z6:79:ILE:O	2.48	0.47
21:i6:12:U:C1'	21:i6:1357:A:O4'	2.62	0.47
21:i6:93:U:O2'	25:E6:8:HIS:ND1	2.42	0.47
21:i6:98:C:H42	21:i6:432:G:H1	1.63	0.47
21:i6:375:U:OP2	30:L6:59:LYS:NZ	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:560:A:H2'	21:i6:561:A:C8	2.49	0.47
21:i6:963:A:C6	21:i6:964:A:C6	3.03	0.47
21:i6:1083:A:O2'	21:i6:1858:G:N2	2.44	0.47
21:i6:1182:A:P	35:j6:18:ARG:NH1	2.86	0.47
21:i6:1208:A:C4	21:i6:1209:A:N7	2.83	0.47
21:i6:1313:A:H5''	21:i6:1314:U:H5	1.79	0.47
21:i6:1490:G:H2'	21:i6:1491:G:C8	2.50	0.47
21:i6:1560:U:HO2'	21:i6:1583:C:HO2'	1.57	0.47
21:i6:1751:C:C5	21:i6:1781:A:N1	2.80	0.47
21:i6:1776:G:N3	21:i6:1776:G:C5'	2.73	0.47
22:A6:91:ALA:HB3	22:A6:98:PRO:HB3	1.96	0.47
23:B6:173:THR:HG23	23:B6:177:GLN:OE1	2.14	0.47
24:D6:138:VAL:HB	24:D6:150:MET:HB3	1.97	0.47
25:E6:42:LEU:HG	25:E6:46:ILE:HD11	1.96	0.47
27:H6:37:LYS:O	27:H6:39:GLN:N	2.47	0.47
28:I6:8:TRP:HZ3	28:I6:20:PRO:HB3	1.78	0.47
29:K6:45:VAL:HA	29:K6:48:ALA:HB3	1.96	0.47
29:K6:51:SER:O	29:K6:54:SER:OG	2.25	0.47
31:P6:78:THR:HG22	31:P6:95:GLY:O	2.14	0.47
32:Q6:47:LEU:O	32:Q6:49:TYR:N	2.47	0.47
33:R6:80:ARG:C	33:R6:82:ASP:H	2.22	0.47
36:k2:82:LEU:CD1	36:k2:169:TYR:CA	2.90	0.47
36:k2:176:HIS:C	36:k2:178:LYS:N	2.72	0.47
36:k4:32:GLN:NE2	36:k4:131:ILE:HD12	2.29	0.47
36:k4:95:GLN:CG	36:k4:164:ILE:HD11	2.12	0.47
36:k4:111:ILE:HB	36:k4:164:ILE:HB	1.96	0.47
36:k5:83:ARG:HH21	36:k5:175:TRP:CD1	2.30	0.47
36:k5:92:LEU:CD1	36:k5:131:ILE:HG22	2.40	0.47
37:l4:123:ALA:HB3	37:l4:126:LYS:HG2	1.96	0.47
37:l4:130:ARG:O	37:l4:131:VAL:HG22	2.15	0.47
37:l6:164:ILE:O	37:l6:165:ILE:CD1	2.53	0.47
9:g1:15:ASN:HD21	21:i1:1472:C:H4'	1.78	0.47
10:C1:64:THR:OG1	10:C1:279:ARG:NH2	2.48	0.47
10:C1:188:CYS:SG	10:C1:191:VAL:HB	2.55	0.47
12:J1:60:LEU:HD11	12:J1:70:ARG:HA	1.97	0.47
21:i1:71:G:H3'	21:i1:72:C:H5''	1.97	0.47
21:i1:380:G:H5''	28:I1:31:ARG:NH1	2.29	0.47
21:i1:450:C:H2'	21:i1:451:G:H5''	1.97	0.47
21:i1:963:A:C6	21:i1:964:A:C6	3.03	0.47
21:i1:1069:U:H5'	36:k1:16:GLN:O	2.14	0.47
21:i1:1520:G:H5'	34:S1:136:THR:OG1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1852:C:H2'	21:i1:1853:C:C6	2.50	0.47
26:F1:190:ILE:O	26:F1:194:ASP:N	2.48	0.47
30:L1:152:LYS:N	30:L1:152:LYS:HD2	2.29	0.47
4:X2:55:VAL:CG2	20:e2:2:VAL:HB	2.17	0.47
6:c2:14:VAL:HG23	6:c2:53:GLY:H	1.79	0.47
8:f2:98:VAL:O	8:f2:100:LEU:N	2.48	0.47
15:O2:103:ASN:CG	15:O2:142:ARG:HB2	2.39	0.47
15:O2:135:ILE:HD12	21:i2:986:G:N2	2.30	0.47
17:Y2:15:ASN:HD21	17:Y2:20:ARG:NH2	2.12	0.47
21:i2:868:G:O2'	21:i2:869:A:OP1	2.28	0.47
21:i2:970:G:C2	28:I4:200:ARG:HB3	2.50	0.47
21:i2:1415:C:H2'	21:i2:1417:C:H5'	1.97	0.47
22:A2:91:ALA:HB3	22:A2:98:PRO:HB3	1.95	0.47
24:D2:132:LYS:HE3	24:D2:189:MET:HE2	1.97	0.47
24:D2:138:VAL:HB	24:D2:150:MET:HB3	1.97	0.47
28:I2:206:LYS:CA	36:k5:56:HIS:NE2	2.62	0.47
29:K2:10:ALA:O	29:K2:14:LEU:N	2.37	0.47
33:R2:102:THR:O	33:R2:105:MET:HG2	2.15	0.47
34:S2:6:PRO:CD	34:S2:58:GLU:HG2	2.42	0.47
3:V3:70:LEU:HD21	22:A3:57:LYS:HD3	1.97	0.47
9:g3:11:LEU:H	9:g3:306:LEU:HD11	1.80	0.47
9:g3:40:ILE:HD12	9:g3:90:TRP:HE1	1.78	0.47
9:g3:171:ASP:O	9:g3:173:LEU:HG	2.15	0.47
14:N3:84:LEU:HD23	14:N3:149:LEU:O	2.15	0.47
18:Z3:103:HIS:HE2	26:F3:91:ARG:HD2	1.79	0.47
21:i3:40:A:H61	21:i3:514:U:H3	1.61	0.47
21:i3:649:U:H2'	21:i3:650:A:O4'	2.14	0.47
21:i3:1124:C:OP1	23:B3:150:ILE:HG13	2.15	0.47
21:i3:1313:A:H5''	21:i3:1314:U:H5	1.79	0.47
22:A3:34:MET:HE1	22:A3:148:CYS:HB2	1.96	0.47
31:P3:115:TYR:CD2	31:P3:115:TYR:N	2.73	0.47
6:c4:26:GLN:OE1	21:i4:1219:C:O2'	2.23	0.47
6:c4:29:GLN:HA	6:c4:45:ASN:HA	1.97	0.47
8:f4:98:VAL:O	8:f4:100:LEU:N	2.48	0.47
9:g4:215:GLN:HA	9:g4:231:ASP:HA	1.97	0.47
10:C4:64:THR:OG1	10:C4:279:ARG:NH2	2.48	0.47
11:G4:139:SER:HA	11:G4:142:ARG:CD	2.43	0.47
13:M4:125:GLU:O	13:M4:129:LYS:CG	2.63	0.47
21:i4:1270:G:O2'	21:i4:1301:A:N7	2.42	0.47
21:i4:1670:C:H2'	21:i4:1671:G:C8	2.50	0.47
21:i4:1851:A:OP1	35:j4:9:ARG:NH2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D4:95:GLY:O	24:D4:97:CYS:N	2.48	0.47
25:E4:79:ASP:CG	25:E4:80:ILE:H	2.22	0.47
28:I4:80:ASP:OD1	28:I4:81:VAL:N	2.48	0.47
31:P4:57:LEU:HD23	31:P4:61:ARG:NH2	2.30	0.47
34:S4:50:ILE:CD1	34:S4:67:VAL:HG21	2.44	0.47
2:U5:20:ILE:HD13	2:U5:116:ILE:O	2.15	0.47
12:J5:61:LEU:HD12	12:J5:70:ARG:HH22	1.79	0.47
15:O5:135:ILE:HD12	21:i5:986:G:N2	2.30	0.47
21:i5:296:U:O2'	25:E5:130:PHE:O	2.24	0.47
21:i5:557:U:O3'	21:i5:558:G:H8	1.98	0.47
21:i5:1124:C:OP1	23:B5:150:ILE:HG13	2.15	0.47
21:i5:1708:C:O2'	37:l5:151:LYS:C	2.58	0.47
25:E5:79:ASP:CG	25:E5:80:ILE:H	2.22	0.47
27:H5:147:LYS:O	27:H5:149:ASP:N	2.48	0.47
33:R5:80:ARG:C	33:R5:82:ASP:H	2.22	0.47
1:T6:35:ASP:CB	34:S6:46:ARG:NE	2.62	0.47
6:c6:29:GLN:HA	6:c6:45:ASN:HA	1.97	0.47
14:N6:25:TRP:CH2	19:b6:84:HIS:HE1	2.31	0.47
15:O6:135:ILE:HD12	21:i6:986:G:N2	2.30	0.47
21:i6:509:G:H2'	21:i6:510:G:H8	1.80	0.47
21:i6:912:C:O2'	21:i6:913:A:OP1	2.30	0.47
21:i6:969:U:OP1	21:i6:970:G:O2'	2.22	0.47
21:i6:1069:U:C4'	36:k6:16:GLN:HB3	2.44	0.47
24:D6:64:ARG:CZ	29:K6:95:ARG:HH21	2.26	0.47
31:P6:15:PHE:CE2	31:P6:17:TYR:HB2	2.50	0.47
33:R6:102:THR:O	33:R6:105:MET:HG2	2.15	0.47
36:k1:169:TYR:N	36:k1:169:TYR:HD2	2.12	0.47
36:k2:82:LEU:HD22	36:k2:142:ALA:HB3	1.97	0.47
36:k2:83:ARG:CG	36:k2:175:TRP:CE3	2.92	0.47
36:k5:18:LYS:O	36:k5:22:ILE:CD1	2.62	0.47
37:l1:123:ALA:HB3	37:l1:126:LYS:HG2	1.96	0.47
37:l2:123:ALA:HB3	37:l2:126:LYS:HG2	1.96	0.47
37:l2:128:VAL:HG13	37:l2:166:ILE:CB	2.41	0.47
37:l3:130:ARG:O	37:l3:131:VAL:HG22	2.15	0.47
37:l3:158:VAL:HG23	37:l3:164:ILE:CD1	2.45	0.47
1:T1:33:TRP:HH2	1:T1:102:ARG:HH11	1.61	0.47
2:U1:20:ILE:HD13	2:U1:116:ILE:O	2.15	0.47
3:V1:66:ASP:OD1	3:V1:67:ASP:N	2.48	0.47
8:f1:99:LYS:NZ	21:i1:1285:G:C2	2.77	0.47
8:f1:110:GLU:O	17:Y2:113:ARG:NH1	2.45	0.47
9:g1:272:GLN:HB2	9:g1:308:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:49:THR:O	12:J1:53:ILE:HG12	2.15	0.47
13:M1:125:GLU:O	13:M1:129:LYS:CG	2.63	0.47
18:Z1:66:LYS:HD3	26:F1:102:LEU:O	2.15	0.47
21:i1:561:A:C2	21:i1:562:U:C2	3.03	0.47
21:i1:587:A:H1'	21:i1:589:G:N2	2.30	0.47
28:I1:130:THR:HB	28:I1:131:PRO:HD3	1.96	0.47
31:P1:15:PHE:CE2	31:P1:17:TYR:HB2	2.50	0.47
33:R1:27:ASP:O	33:R1:30:THR:OG1	2.24	0.47
34:S1:90:VAL:HG21	34:S1:113:ARG:NH1	2.30	0.47
2:U2:20:ILE:HD13	2:U2:116:ILE:O	2.15	0.47
9:g2:236:ILE:HG21	9:g2:239:LEU:HB2	1.97	0.47
10:C2:64:THR:OG1	10:C2:279:ARG:NH2	2.48	0.47
10:C2:68:ARG:CD	10:C2:277:HIS:HB3	2.36	0.47
11:G2:210:ALA:O	11:G2:215:LYS:HB2	2.14	0.47
11:G2:220:ALA:HA	11:G2:223:LYS:NZ	2.29	0.47
21:i2:93:U:O2'	25:E2:8:HIS:ND1	2.43	0.47
21:i2:903:A:H3'	21:i2:903:A:N3	2.30	0.47
21:i2:1349:G:H1	21:i2:1380:C:H42	1.63	0.47
21:i2:1833:C:O5'	21:i2:1833:C:H6	1.98	0.47
22:A2:27:GLY:HA3	22:A2:150:THR:OG1	2.15	0.47
23:B2:228:LEU:HG	23:B2:232:HIS:HB2	1.96	0.47
9:g3:250:ALA:HB3	9:g3:257:LYS:HB3	1.96	0.47
10:C3:189:GLY:C	10:C3:191:VAL:H	2.22	0.47
11:G3:209:TYR:HB3	11:G3:214:ALA:HB2	1.97	0.47
13:M3:125:GLU:O	13:M3:129:LYS:CG	2.63	0.47
15:O3:99:ALA:O	15:O3:101:GLY:N	2.48	0.47
15:O3:135:ILE:HD12	21:i3:986:G:N2	2.30	0.47
21:i3:77:A:H2'	21:i3:78:C:O4'	2.14	0.47
21:i3:996:A:O2'	21:i3:997:A:OP2	2.30	0.47
24:D3:138:VAL:HB	24:D3:150:MET:HB3	1.97	0.47
27:H3:72:PHE:HB3	27:H3:76:GLN:HG2	1.97	0.47
31:P3:57:LEU:HD23	31:P3:61:ARG:NH2	2.30	0.47
31:P3:121:ILE:HD11	31:P3:123:TYR:HE2	0.58	0.47
2:U4:20:ILE:HD13	2:U4:116:ILE:O	2.15	0.47
5:a4:100:ARG:CB	5:a4:100:ARG:NH1	2.78	0.47
9:g4:11:LEU:H	9:g4:306:LEU:HD11	1.80	0.47
9:g4:15:ASN:HD21	21:i4:1472:C:H4'	1.78	0.47
11:G4:181:THR:HG22	11:G4:184:VAL:HG23	1.97	0.47
12:J4:49:THR:O	12:J4:53:ILE:HG12	2.15	0.47
13:M4:120:ALA:O	13:M4:124:ILE:HG13	2.14	0.47
14:N4:40:LEU:HD22	14:N4:45:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:147:ARG:HD2	15:O4:150:ARG:NE	2.30	0.47
18:Z4:104:ARG:HH21	26:F4:91:ARG:HH12	1.62	0.47
21:i4:316:G:O6	21:i4:335:G:N1	2.17	0.47
21:i4:587:A:H1'	21:i4:589:G:N2	2.30	0.47
21:i4:649:U:H2'	21:i4:650:A:O4'	2.14	0.47
21:i4:1113:A:H2'	21:i4:1113:A:N3	2.30	0.47
21:i4:1539:U:H3	21:i4:1594:A:H61	1.62	0.47
24:D4:71:ALA:O	24:D4:75:LYS:N	2.47	0.47
27:H4:147:LYS:O	27:H4:149:ASP:N	2.48	0.47
28:I4:79:ILE:HG21	28:I4:170:LYS:HD3	1.96	0.47
33:R4:41:ILE:HD13	33:R4:47:ARG:HB2	1.96	0.47
5:a5:44:ILE:HD11	15:O5:97:LEU:HD23	1.96	0.47
6:c5:14:VAL:HG23	6:c5:53:GLY:H	1.79	0.47
7:d5:22:ARG:NH2	7:d5:36:LEU:O	2.44	0.47
9:g5:272:GLN:HB2	9:g5:308:ARG:NH1	2.30	0.47
11:G5:191:ARG:CZ	21:i5:314:U:C5	2.96	0.47
11:G5:220:ALA:HA	11:G5:223:LYS:NZ	2.29	0.47
14:N5:38:TYR:OH	14:N5:74:ILE:HG12	2.15	0.47
17:Y5:112:ASN:HD22	21:i5:53:C:P	2.38	0.47
21:i5:490:C:H42	21:i5:510:G:H1	1.63	0.47
21:i5:800:U:H3	21:i5:865:A:H2	1.62	0.47
22:A5:15:VAL:HG23	22:A5:16:LEU:HD12	1.96	0.47
23:B5:173:THR:HG23	23:B5:177:GLN:OE1	2.14	0.47
26:F5:137:GLN:O	26:F5:138:ALA:CB	2.63	0.47
27:H5:37:LYS:O	27:H5:39:GLN:N	2.47	0.47
31:P5:78:THR:HG22	31:P5:95:GLY:O	2.14	0.47
5:a6:100:ARG:NH1	5:a6:100:ARG:CB	2.78	0.47
9:g6:15:ASN:HD21	21:i6:1472:C:H4'	1.78	0.47
10:C6:205:VAL:HG12	21:i6:1:U:H1'	1.96	0.47
18:Z6:66:LYS:HD3	26:F6:102:LEU:O	2.15	0.47
21:i6:11:A:O2'	21:i6:1357:A:H4'	2.15	0.47
21:i6:148:U:H2'	21:i6:149:A:H8	1.80	0.47
21:i6:450:C:H2'	21:i6:451:G:H5''	1.96	0.47
21:i6:1079:C:O2'	21:i6:1182:A:N1	2.45	0.47
21:i6:1124:C:OP1	23:B6:150:ILE:HG13	2.15	0.47
21:i6:1199:A:H2'	21:i6:1200:A:O4'	2.15	0.47
21:i6:1377:U:O5'	22:A6:102:ARG:NH2	2.48	0.47
22:A6:89:LYS:HZ1	33:R6:82:ASP:CB	2.19	0.47
24:D6:95:GLY:O	24:D6:97:CYS:N	2.47	0.47
36:k1:92:LEU:HA	36:k1:93:PRO:HD3	1.61	0.47
36:k3:149:LYS:HE3	36:k3:165:GLU:OE1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k4:171:ASN:HA	36:k4:176:HIS:NE2	2.30	0.47
36:k5:96:GLN:HE22	36:k5:122:LYS:HD3	1.78	0.47
36:k5:167:ILE:C	36:k5:168:HIS:O	2.58	0.47
36:k5:171:ASN:HA	36:k5:176:HIS:NE2	2.30	0.47
37:l5:123:ALA:HB3	37:l5:126:LYS:HG2	1.96	0.47
37:l5:128:VAL:HG13	37:l5:166:ILE:CB	2.41	0.47
37:l5:158:VAL:HG23	37:l5:164:ILE:CD1	2.45	0.47
37:l5:182:TRP:HE3	37:l5:183:PRO:CB	2.26	0.47
5:a1:105:GLY:C	5:a1:107:ALA:N	2.73	0.47
8:f1:80:ARG:NH1	21:i1:1327:G:H1'	2.30	0.47
9:g1:250:ALA:HB3	9:g1:257:LYS:HB3	1.97	0.47
10:C1:145:LYS:CG	21:i1:1348:G:C4'	2.85	0.47
11:G1:194:LEU:HA	11:G1:197:GLN:HB3	1.96	0.47
14:N1:43:LYS:HG2	14:N1:43:LYS:H	1.48	0.47
16:W1:124:LYS:NZ	21:i1:863:U:O2	2.39	0.47
21:i1:1144:A:H5'	21:i1:1355:C:H5	1.79	0.47
25:E1:79:ASP:CG	25:E1:80:ILE:H	2.22	0.47
9:g2:162:ASN:O	9:g2:164:ILE:N	2.45	0.47
12:J2:49:THR:O	12:J2:53:ILE:HG12	2.15	0.47
12:J2:60:LEU:HD11	12:J2:70:ARG:HA	1.97	0.47
12:J2:143:ASN:HB3	21:i2:823:U:H5	1.80	0.47
14:N2:38:TYR:OH	14:N2:74:ILE:HG12	2.15	0.47
14:N2:76:LYS:C	14:N2:79:GLY:H	2.24	0.47
14:N2:84:LEU:HD23	14:N2:149:LEU:O	2.15	0.47
15:O2:68:GLU:OE2	21:i2:958:G:N2	2.47	0.47
20:e2:3:HIS:ND1	20:e2:3:HIS:C	2.73	0.47
21:i2:71:G:H3'	21:i2:72:C:H5''	1.97	0.47
21:i2:77:A:H2'	21:i2:78:C:O4'	2.14	0.47
21:i2:1762:C:C3'	34:S5:109:GLU:OE2	2.64	0.47
30:L2:5:GLN:O	30:L2:7:GLU:N	2.46	0.47
2:U3:17:ILE:HG21	2:U3:94:PRO:CB	2.38	0.47
9:g3:272:GLN:HB2	9:g3:308:ARG:NH1	2.30	0.47
12:J3:86:VAL:HG21	12:J3:105:PHE:CE1	2.49	0.47
15:O3:139:SER:HB3	21:i3:983:A:C2	2.49	0.47
18:Z3:46:ASN:ND2	18:Z3:79:ILE:O	2.48	0.47
18:Z3:104:ARG:HH21	26:F3:91:ARG:HH12	1.62	0.47
21:i3:186:C:H2'	21:i3:187:G:C8	2.50	0.47
21:i3:339:A:HO2'	21:i3:340:C:P	2.38	0.47
21:i3:377:G:H5'	28:I3:98:LYS:HE2	1.96	0.47
21:i3:490:C:H42	21:i3:510:G:H1	1.63	0.47
21:i3:903:A:H3'	21:i3:903:A:N3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:957:A:H1'	21:i3:958:G:H5'	1.96	0.47
21:i3:1377:U:C4'	22:A3:102:ARG:HH21	2.28	0.47
21:i3:1490:G:H2'	21:i3:1491:G:C8	2.50	0.47
32:Q3:47:LEU:O	32:Q3:49:TYR:N	2.47	0.47
3:V4:16:LYS:HA	3:V4:23:ILE:HA	1.96	0.47
3:V4:70:LEU:HD21	22:A4:57:LYS:HD3	1.97	0.47
11:G4:14:LYS:HG2	11:G4:124:LEU:HD11	1.96	0.47
18:Z4:66:LYS:HD3	26:F4:102:LEU:O	2.15	0.47
27:H4:37:LYS:O	27:H4:39:GLN:N	2.47	0.47
28:I4:119:LEU:HD12	28:I4:153:LYS:HE3	1.97	0.47
30:L4:126:VAL:CG2	30:L4:145:VAL:HG22	2.45	0.47
34:S4:90:VAL:HG21	34:S4:113:ARG:NH1	2.30	0.47
1:T5:38:LYS:H	34:S5:39:ARG:HH22	1.62	0.47
4:X5:61:GLN:OE1	21:i5:1824:A:C8	2.68	0.47
7:d5:6:LEU:HA	7:d5:7:TYR:HA	1.75	0.47
9:g5:14:HIS:CD2	9:g5:41:ILE:HG13	2.50	0.47
10:C5:188:CYS:SG	10:C5:191:VAL:HB	2.55	0.47
12:J5:60:LEU:HD11	12:J5:70:ARG:HA	1.97	0.47
12:J5:83:ARG:HG3	12:J5:150:ARG:NE	2.30	0.47
12:J5:136:ARG:HA	12:J5:141:VAL:HA	1.97	0.47
12:J5:143:ASN:HB3	21:i5:823:U:H5	1.80	0.47
13:M5:54:SER:OG	13:M5:78:LYS:HB3	2.14	0.47
21:i5:450:C:H2'	21:i5:451:G:H5''	1.97	0.47
21:i5:587:A:H1'	21:i5:589:G:N2	2.30	0.47
21:i5:1070:A:OP1	36:k5:18:LYS:HA	2.15	0.47
21:i5:1539:U:H3	21:i5:1594:A:H61	1.63	0.47
21:i5:1808:U:H2'	21:i5:1809:A:C8	2.50	0.47
24:D5:71:ALA:HB1	24:D5:75:LYS:HD2	1.97	0.47
25:E5:99:PHE:CD1	25:E5:113:ARG:HG2	2.50	0.47
31:P5:57:LEU:HD23	31:P5:61:ARG:NH2	2.30	0.47
7:d6:30:LEU:HA	7:d6:39:CYS:HA	1.97	0.47
8:f6:98:VAL:O	8:f6:100:LEU:N	2.48	0.47
8:f6:105:TYR:CE2	8:f6:131:PHE:CD2	2.97	0.47
13:M6:101:ARG:HG3	13:M6:102:LYS:N	2.30	0.47
15:O6:139:SER:HB3	21:i6:983:A:H2	1.79	0.47
21:i6:488:U:O2'	21:i6:489:A:OP1	2.33	0.47
21:i6:493:A:H61	21:i6:510:G:H1'	1.79	0.47
21:i6:1378:A:P	22:A6:132:GLN:CD	2.96	0.47
22:A6:15:VAL:HG23	22:A6:16:LEU:HD12	1.95	0.47
22:A6:217:ALA:HB1	22:A6:220:LYS:CE	2.34	0.47
36:k2:108:GLY:CA	36:k2:166:ASN:OD1	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:171:ASN:HA	36:k2:176:HIS:NE2	2.30	0.47
36:k4:94:HIS:CB	36:k4:133:ALA:O	2.60	0.47
36:k4:144:CYS:HB2	36:k4:166:ASN:OD1	2.15	0.47
37:l4:170:PHE:N	37:l4:170:PHE:CD1	2.83	0.47
37:l5:114:LYS:HE3	37:l5:114:LYS:HB3	1.41	0.47
7:d1:22:ARG:NH2	7:d1:36:LEU:O	2.44	0.46
14:N1:4:MET:HE2	14:N1:5:HIS:NE2	2.29	0.46
14:N1:84:LEU:HD23	14:N1:149:LEU:O	2.15	0.46
21:i1:1808:U:H2'	21:i1:1809:A:C8	2.50	0.46
21:i1:1841:C:C5'	35:j1:2:ARG:HD2	2.43	0.46
28:I1:80:ASP:OD1	28:I1:81:VAL:N	2.48	0.46
30:L1:57:ASP:OD1	30:L1:58:LYS:N	2.49	0.46
1:T2:28:LEU:HD13	1:T2:54:TYR:CD2	2.50	0.46
9:g2:5:MET:HG3	9:g2:270:LEU:HD12	1.97	0.46
9:g2:215:GLN:HG2	9:g2:231:ASP:HB3	1.96	0.46
9:g2:230:LEU:HB3	9:g2:259:TRP:HZ3	1.80	0.46
9:g2:250:ALA:HB3	9:g2:257:LYS:HB3	1.97	0.46
10:C2:205:VAL:HG12	21:i2:1:U:H1'	1.96	0.46
12:J2:5:ARG:HD2	21:i2:38:A:H5''	1.97	0.46
12:J2:136:ARG:HA	12:J2:141:VAL:HA	1.97	0.46
13:M2:125:GLU:O	13:M2:129:LYS:CG	2.63	0.46
21:i2:148:U:H2'	21:i2:149:A:H8	1.80	0.46
21:i2:545:A:O2'	21:i2:546:G:H8	1.98	0.46
21:i2:555:A:H8	21:i2:556:U:H4'	1.80	0.46
21:i2:733:C:C4	27:H2:149:ASP:O	2.68	0.46
21:i2:1013:U:OP1	21:i2:1129:G:O2'	2.32	0.46
28:I2:130:THR:HB	28:I2:131:PRO:HD3	1.96	0.46
33:R2:119:VAL:HA	33:R2:120:THR:HA	1.71	0.46
2:U3:17:ILE:HG22	2:U3:18:HIS:N	2.25	0.46
2:U3:77:TRP:HD1	32:Q3:132:PHE:HB2	1.80	0.46
2:U3:86:LYS:O	2:U3:87:ARG:NH2	2.44	0.46
4:X3:88:ASP:HB2	20:e3:10:GLY:HA2	1.96	0.46
5:a3:100:ARG:CB	5:a3:100:ARG:NH1	2.78	0.46
11:G3:220:ALA:HA	11:G3:223:LYS:NZ	2.29	0.46
13:M3:54:SER:OG	13:M3:78:LYS:HB3	2.14	0.46
14:N3:76:LYS:C	14:N3:79:GLY:H	2.24	0.46
21:i3:148:U:H2'	21:i3:149:A:H8	1.80	0.46
21:i3:555:A:H8	21:i3:556:U:H4'	1.80	0.46
21:i3:1693:G:H21	21:i3:1834:A:C1'	2.28	0.46
31:P3:115:TYR:CZ	31:P3:118:GLU:HB2	2.50	0.46
2:U4:19:ARG:NH2	2:U4:90:ASP:OD2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U4:81:GLN:HG2	7:d4:55:LEU:HD12	1.97	0.46
9:g4:14:HIS:CD2	9:g4:41:ILE:HG13	2.50	0.46
9:g4:171:ASP:O	9:g4:173:LEU:HG	2.15	0.46
14:N4:84:LEU:HD23	14:N4:149:LEU:O	2.15	0.46
15:O4:139:SER:HB3	21:i4:983:A:C2	2.49	0.46
21:i4:696:G:N2	21:i4:734:C:H5''	2.29	0.46
21:i4:1237:C:H4'	31:P4:130:ARG:O	2.14	0.46
22:A4:214:GLU:CB	33:R4:84:TYR:CE1	2.98	0.46
23:B4:21:VAL:CB	30:L5:31:GLU:CG	2.75	0.46
2:U5:77:TRP:HD1	32:Q5:132:PHE:HB2	1.80	0.46
10:C5:273:LEU:HD12	10:C5:280:VAL:HG21	1.97	0.46
11:G5:209:TYR:HB3	11:G5:214:ALA:HB2	1.98	0.46
15:O5:99:ALA:O	15:O5:101:GLY:N	2.48	0.46
21:i5:192:C:P	28:I5:141:ARG:NE	2.88	0.46
21:i5:350:C:O2'	21:i5:383:G:N2	2.43	0.46
21:i5:1202:U:H5''	21:i5:1359:U:OP1	2.14	0.46
23:B5:97:LEU:HD22	23:B5:232:HIS:CD2	2.49	0.46
1:T6:28:LEU:HD13	1:T6:54:TYR:CD2	2.50	0.46
11:G6:14:LYS:HG2	11:G6:124:LEU:HD11	1.96	0.46
14:N6:23:PRO:HD2	14:N6:26:LEU:HD23	1.97	0.46
15:O6:99:ALA:O	15:O6:101:GLY:N	2.48	0.46
18:Z6:104:ARG:HH21	26:F6:91:ARG:HH12	1.62	0.46
21:i6:490:C:H42	21:i6:510:G:H1	1.63	0.46
21:i6:555:A:H8	21:i6:556:U:H4'	1.80	0.46
21:i6:1214:A:O2'	21:i6:1216:C:OP1	2.28	0.46
21:i6:1377:U:OP2	22:A6:102:ARG:CZ	2.60	0.46
27:H6:72:PHE:HB3	27:H6:76:GLN:HG2	1.97	0.46
27:H6:147:LYS:O	27:H6:149:ASP:N	2.48	0.46
28:I6:119:LEU:HD12	28:I6:153:LYS:HE3	1.97	0.46
36:k1:80:PRO:HG3	36:k1:92:LEU:HD12	1.97	0.46
36:k1:88:TYR:HD1	36:k1:90:PHE:CE2	2.33	0.46
36:k2:18:LYS:O	36:k2:22:ILE:CD1	2.63	0.46
36:k5:83:ARG:HE	36:k5:175:TRP:HA	1.80	0.46
37:l3:123:ALA:HB3	37:l3:126:LYS:HG2	1.96	0.46
37:l5:127:TYR:H	37:l5:168:GLY:HA2	1.80	0.46
37:l5:170:PHE:N	37:l5:170:PHE:CD1	2.83	0.46
2:U1:19:ARG:NH2	2:U1:90:ASP:OD2	2.47	0.46
2:U1:81:GLN:HG2	7:d1:55:LEU:HD12	1.97	0.46
4:X1:88:ASP:HB2	20:e1:10:GLY:HA2	1.96	0.46
10:C1:273:LEU:CD1	10:C1:280:VAL:HG21	2.44	0.46
17:Y1:9:THR:H	17:Y1:26:ASP:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z1:103:HIS:HE2	26:F1:91:ARG:HD2	1.79	0.46
21:i1:509:G:H2'	21:i1:510:G:H8	1.80	0.46
21:i1:1648:G:HO2'	21:i1:1674:G:H1	1.63	0.46
28:I1:79:ILE:HG21	28:I1:170:LYS:HD3	1.96	0.46
30:L1:16:ILE:HG23	30:L1:36:TYR:HB2	1.97	0.46
31:P1:57:LEU:HD23	31:P1:61:ARG:NH2	2.30	0.46
33:R1:65:PRO:HB3	33:R1:74:GLN:HE21	1.75	0.46
34:S1:50:ILE:CD1	34:S1:67:VAL:HG21	2.44	0.46
3:V2:66:ASP:OD1	3:V2:67:ASP:N	2.48	0.46
9:g2:107:ASP:HB3	9:g2:125:ARG:HG2	1.96	0.46
9:g2:272:GLN:HB2	9:g2:308:ARG:NH1	2.30	0.46
11:G2:14:LYS:HG2	11:G2:124:LEU:HD11	1.96	0.46
12:J2:83:ARG:HG3	12:J2:150:ARG:NE	2.30	0.46
13:M2:27:ILE:HG23	29:K2:84:HIS:CG	2.41	0.46
21:i2:332:G:H8	21:i2:332:G:O5'	1.98	0.46
21:i2:493:A:H61	21:i2:510:G:H1'	1.79	0.46
21:i2:1199:A:H2'	21:i2:1200:A:O4'	2.15	0.46
21:i2:1640:A:H2'	21:i2:1641:A:O4'	2.15	0.46
25:E2:56:LEU:HD23	25:E2:57:THR:HG23	1.97	0.46
34:S2:50:ILE:CD1	34:S2:67:VAL:HG21	2.44	0.46
3:V3:50:PHE:HZ	10:C3:267:GLN:HE22	1.60	0.46
6:c3:29:GLN:HA	6:c3:45:ASN:HA	1.97	0.46
7:d3:30:LEU:HA	7:d3:39:CYS:HA	1.97	0.46
8:f3:105:TYR:CE2	8:f3:131:PHE:CD2	2.97	0.46
10:C3:191:VAL:HA	10:C3:228:GLY:HA3	1.98	0.46
11:G3:181:THR:HG22	11:G3:184:VAL:HG23	1.97	0.46
12:J3:50:LEU:HD13	12:J3:102:ILE:HD13	1.97	0.46
14:N3:38:TYR:OH	14:N3:74:ILE:HG12	2.15	0.46
21:i3:71:G:H3'	21:i3:72:C:H5''	1.97	0.46
21:i3:290:U:O2'	21:i3:292:A:N7	2.49	0.46
21:i3:553:U:H2'	21:i3:554:A:C8	2.50	0.46
21:i3:1113:A:H2'	21:i3:1113:A:N3	2.29	0.46
21:i3:1415:C:H2'	21:i3:1417:C:H5'	1.97	0.46
24:D3:35:SER:HB2	24:D3:51:LEU:O	2.15	0.46
25:E3:42:LEU:HG	25:E3:46:ILE:HD11	1.96	0.46
28:I3:191:GLU:HA	28:I3:195:LEU:CD2	2.45	0.46
33:R3:119:VAL:HA	33:R3:120:THR:HA	1.72	0.46
9:g4:250:ALA:HB3	9:g4:257:LYS:HB3	1.97	0.46
10:C4:273:LEU:HD12	10:C4:280:VAL:HG21	1.97	0.46
11:G4:121:ILE:O	11:G4:125:THR:OG1	2.30	0.46
12:J4:83:ARG:HG3	12:J4:150:ARG:NE	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:4:MET:HE2	14:N4:5:HIS:NE2	2.29	0.46
21:i4:77:A:H2'	21:i4:78:C:O4'	2.14	0.46
21:i4:122:G:H1	21:i4:342:C:H42	1.63	0.46
21:i4:1013:U:OP1	21:i4:1129:G:O2'	2.32	0.46
21:i4:1172:U:P	35:j4:14:LYS:NZ	2.88	0.46
21:i4:1277:C:H3'	21:i4:1278:A:C8	2.51	0.46
21:i4:1490:G:H2'	21:i4:1491:G:C8	2.50	0.46
22:A4:173:LEU:HB2	22:A4:203:PHE:HE1	1.80	0.46
22:A4:211:GLU:HG3	33:R4:81:ARG:HH21	1.60	0.46
24:D4:106:ARG:O	24:D4:110:LEU:N	2.39	0.46
26:F4:190:ILE:O	26:F4:194:ASP:N	2.48	0.46
31:P4:44:ARG:HH11	31:P4:44:ARG:CG	2.28	0.46
1:T5:28:LEU:HD13	1:T5:54:TYR:CD2	2.50	0.46
5:a5:100:ARG:CB	5:a5:100:ARG:NH1	2.78	0.46
17:Y5:9:THR:H	17:Y5:26:ASP:HB3	1.80	0.46
18:Z5:66:LYS:HD3	26:F5:102:LEU:O	2.15	0.46
21:i5:148:U:H2'	21:i5:149:A:H8	1.80	0.46
21:i5:560:A:H2'	21:i5:561:A:C8	2.50	0.46
21:i5:598:G:O2'	21:i5:605:A:N1	2.42	0.46
21:i5:903:A:H3'	21:i5:903:A:N3	2.30	0.46
21:i5:1172:U:C5'	35:j5:10:MET:HE3	2.44	0.46
22:A5:9:GLN:O	22:A5:11:LYS:HG2	2.16	0.46
26:F5:127:ARG:NE	26:F5:128:ILE:HG23	2.17	0.46
27:H5:121:THR:HG22	27:H5:123:THR:H	1.81	0.46
33:R5:77:GLU:HG2	33:R5:81:ARG:CG	2.44	0.46
5:a6:44:ILE:HD11	15:O6:97:LEU:HD23	1.97	0.46
21:i6:339:A:HO2'	21:i6:340:C:P	2.38	0.46
21:i6:1360:U:C4	21:i6:1361:G:C6	3.03	0.46
21:i6:1380:C:C1'	22:A6:110:ASN:ND2	2.73	0.46
21:i6:1644:C:H2'	21:i6:1645:C:C6	2.50	0.46
21:i6:1812:U:H2'	21:i6:1813:A:H5''	1.98	0.46
21:i6:1852:C:H2'	21:i6:1853:C:C6	2.50	0.46
24:D6:56:GLN:HA	24:D6:59:LEU:HD13	1.98	0.46
25:E6:99:PHE:CD1	25:E6:113:ARG:HG2	2.50	0.46
25:E6:125:LYS:HG2	25:E6:126:VAL:O	2.15	0.46
28:I6:80:ASP:OD1	28:I6:81:VAL:N	2.48	0.46
28:I6:130:THR:HB	28:I6:131:PRO:HD3	1.96	0.46
29:K6:93:THR:CB	29:K6:95:ARG:NH1	2.79	0.46
33:R6:94:GLU:HA	33:R6:96:ILE:HG12	1.98	0.46
36:k4:18:LYS:O	36:k4:22:ILE:CD1	2.63	0.46
37:l2:130:ARG:O	37:l2:131:VAL:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l5:127:TYR:O	37:l5:169:ASP:CA	2.43	0.46
37:l5:182:TRP:CE3	37:l5:183:PRO:HB3	2.46	0.46
1:T1:28:LEU:HD13	1:T1:54:TYR:CD2	2.50	0.46
5:a1:100:ARG:CG	5:a1:100:ARG:NH1	2.73	0.46
8:f1:110:GLU:OE1	21:i2:52:G:H5'	2.15	0.46
10:C1:145:LYS:CD	21:i1:1348:G:H5'	2.43	0.46
11:G1:209:TYR:HD1	11:G1:213:LEU:HD23	1.80	0.46
15:O1:130:GLU:HG2	15:O1:131:ASP:N	2.29	0.46
16:W1:2:VAL:O	16:W1:4:MET:N	2.46	0.46
21:i1:883:U:H2'	21:i1:884:C:C6	2.51	0.46
21:i1:1060:A:O2'	21:i1:1062:A:N7	2.45	0.46
24:D1:138:VAL:HB	24:D1:150:MET:HB3	1.97	0.46
25:E1:42:LEU:HG	25:E1:46:ILE:HD11	1.96	0.46
25:E1:125:LYS:HG2	25:E1:126:VAL:O	2.15	0.46
26:F1:88:MET:HB2	26:F1:91:ARG:NH2	2.31	0.46
27:H1:98:ARG:O	27:H1:100:ILE:N	2.48	0.46
31:P1:115:TYR:CZ	31:P1:118:GLU:HB2	2.51	0.46
9:g2:215:GLN:HA	9:g2:231:ASP:HA	1.97	0.46
9:g2:248:LEU:N	9:g2:259:TRP:O	2.29	0.46
12:J2:40:LYS:NZ	21:i2:641:A:OP1	2.35	0.46
16:W2:88:LYS:NZ	21:i2:420:G:OP1	2.44	0.46
18:Z2:46:ASN:ND2	18:Z2:79:ILE:O	2.48	0.46
21:i2:1021:U:H4'	21:i2:1022:U:O4'	2.15	0.46
21:i2:1124:C:OP1	23:B2:150:ILE:HG13	2.16	0.46
24:D2:95:GLY:O	24:D2:97:CYS:N	2.48	0.46
25:E2:71:LYS:HD3	25:E2:74:GLY:HA2	1.98	0.46
27:H2:147:LYS:O	27:H2:149:ASP:N	2.48	0.46
29:K2:58:VAL:CG2	29:K2:69:TRP:HB3	2.45	0.46
12:J3:60:LEU:HD11	12:J3:70:ARG:HA	1.97	0.46
12:J3:83:ARG:HG3	12:J3:150:ARG:NE	2.30	0.46
21:i3:215:G:N7	21:i3:312:G:N1	2.63	0.46
21:i3:696:G:C2	21:i3:734:C:C5'	2.99	0.46
21:i3:1349:G:H1	21:i3:1380:C:H42	1.63	0.46
21:i3:1414:A:N6	21:i3:1419:C:H41	2.14	0.46
21:i3:1808:U:H2'	21:i3:1809:A:C8	2.50	0.46
23:B3:228:LEU:HG	23:B3:232:HIS:HB2	1.96	0.46
25:E3:99:PHE:CD1	25:E3:113:ARG:HG2	2.50	0.46
26:F3:137:GLN:O	26:F3:138:ALA:CB	2.62	0.46
28:I3:193:LYS:HE3	30:L3:32:LYS:NZ	2.30	0.46
31:P3:45:LEU:HD11	31:P3:49:LEU:HD21	1.97	0.46
33:R3:58:MET:HA	33:R3:61:ILE:HD11	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:34:VAL:HG23	1:T4:35:ASP:H	1.80	0.46
4:X4:107:ARG:HD3	4:X4:112:VAL:HB	1.97	0.46
11:G4:149:LYS:NZ	11:G4:149:LYS:CB	2.74	0.46
12:J4:136:ARG:HA	12:J4:141:VAL:HA	1.97	0.46
14:N4:131:THR:O	30:L4:152:LYS:CG	2.63	0.46
21:i4:903:A:H3'	21:i4:903:A:N3	2.30	0.46
21:i4:1349:G:H1	21:i4:1380:C:H42	1.63	0.46
21:i4:1531:A:OP2	26:F4:81:ARG:NH1	2.46	0.46
21:i4:1585:U:O2'	21:i4:1587:G:N7	2.42	0.46
22:A4:9:GLN:O	22:A4:11:LYS:HG2	2.16	0.46
25:E4:56:LEU:HD23	25:E4:57:THR:HG23	1.97	0.46
30:L4:135:SER:HB3	30:L4:138:VAL:HB	1.97	0.46
2:U5:87:ARG:NH1	21:i5:1447:G:OP1	2.36	0.46
3:V5:70:LEU:HD21	22:A5:57:LYS:HD3	1.97	0.46
9:g5:230:LEU:HB3	9:g5:259:TRP:HZ3	1.80	0.46
10:C5:191:VAL:HA	10:C5:228:GLY:HA3	1.97	0.46
11:G5:180:VAL:HG11	21:i5:142:C:O2	2.15	0.46
13:M5:125:GLU:O	13:M5:129:LYS:CG	2.63	0.46
13:M5:125:GLU:O	13:M5:129:LYS:N	2.48	0.46
21:i5:50:A:H62	21:i5:477:G:H21	1.63	0.46
21:i5:545:A:O2'	21:i5:546:G:H8	1.99	0.46
21:i5:1332:A:H2'	24:D5:141:LYS:HZ3	1.80	0.46
21:i5:1694:U:HO2'	21:i5:1833:C:HO2'	1.49	0.46
21:i5:1755:C:O2'	21:i5:1777:G:N2	2.48	0.46
21:i5:1812:U:H2'	21:i5:1813:A:H5''	1.97	0.46
22:A5:173:LEU:HB2	22:A5:203:PHE:HE1	1.80	0.46
32:Q5:96:TYR:HA	32:Q5:100:VAL:HG22	1.95	0.46
33:R5:94:GLU:HA	33:R5:96:ILE:HG12	1.97	0.46
33:R5:119:VAL:HA	33:R5:120:THR:HA	1.72	0.46
9:g6:272:GLN:HB2	9:g6:308:ARG:NH1	2.30	0.46
10:C6:188:CYS:SG	10:C6:191:VAL:HB	2.55	0.46
11:G6:148:SER:OG	11:G6:149:LYS:HA	2.16	0.46
11:G6:209:TYR:HB3	11:G6:214:ALA:HB2	1.98	0.46
12:J6:107:GLU:O	12:J6:112:THR:OG1	2.33	0.46
12:J6:136:ARG:HA	12:J6:141:VAL:HA	1.97	0.46
15:O6:17:LEU:CD2	15:O6:18:GLY:H	2.22	0.46
16:W6:65:LEU:C	16:W6:67:GLY:H	2.21	0.46
16:W6:76:SER:HB3	21:i6:1159:G:P	2.56	0.46
16:W6:106:THR:OG1	16:W6:111:MET:HE3	2.16	0.46
17:Y6:111:LYS:NZ	21:i6:56:G:OP1	2.41	0.46
21:i6:211:G:N7	21:i6:212:C:C4	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:903:A:H3'	21:i6:903:A:N3	2.30	0.46
21:i6:1021:U:H4'	21:i6:1022:U:O4'	2.15	0.46
22:A6:173:LEU:HB2	22:A6:203:PHE:HE1	1.80	0.46
25:E6:141:THR:OG1	25:E6:145:ARG:N	2.49	0.46
30:L6:152:LYS:N	30:L6:152:LYS:CD	2.77	0.46
34:S6:16:LEU:HD21	34:S6:72:GLN:NE2	2.29	0.46
36:k2:14:CYS:HB3	36:k2:180:TYR:CE2	2.46	0.46
36:k2:170:LEU:CD1	36:k2:175:TRP:CE2	2.98	0.46
36:k3:92:LEU:HD23	36:k3:93:PRO:CD	2.37	0.46
36:k4:86:HIS:CD2	36:k4:142:ALA:N	2.84	0.46
37:l2:158:VAL:HG23	37:l2:164:ILE:CD1	2.45	0.46
37:l4:142:LYS:HE2	37:l4:146:ARG:HH11	1.78	0.46
1:T1:34:VAL:HG23	1:T1:35:ASP:H	1.81	0.46
3:V1:70:LEU:HD21	22:A1:57:LYS:HD3	1.97	0.46
8:f1:98:VAL:O	8:f1:100:LEU:N	2.48	0.46
9:g1:14:HIS:CD2	9:g1:41:ILE:HG13	2.50	0.46
9:g1:215:GLN:HA	9:g1:231:ASP:HA	1.97	0.46
9:g1:281:ALA:HB1	33:R1:63:ARG:HH21	1.80	0.46
10:C1:273:LEU:HD12	10:C1:280:VAL:HG21	1.97	0.46
11:G1:181:THR:HG22	11:G1:184:VAL:HG23	1.98	0.46
14:N1:38:TYR:OH	14:N1:74:ILE:HG12	2.15	0.46
14:N1:91:LEU:HD11	14:N1:121:ARG:HD2	1.98	0.46
17:Y1:15:ASN:HD21	17:Y1:20:ARG:NH2	2.12	0.46
21:i1:61:A:C2	21:i1:334:C:H2'	2.50	0.46
21:i1:379:C:OP2	28:I1:181:GLN:NE2	2.49	0.46
21:i1:482:G:N1	21:i1:485:A:OP2	2.45	0.46
21:i1:553:U:H2'	21:i1:554:A:C8	2.51	0.46
21:i1:1199:A:H2'	21:i1:1200:A:O4'	2.15	0.46
21:i1:1277:C:H3'	21:i1:1278:A:C8	2.51	0.46
21:i1:1640:A:H2'	21:i1:1641:A:O4'	2.15	0.46
21:i1:1755:C:O2'	21:i1:1777:G:N2	2.48	0.46
21:i1:1812:U:H2'	21:i1:1813:A:H5''	1.97	0.46
26:F1:115:ALA:O	26:F1:119:SER:OG	2.19	0.46
26:F1:179:ASN:O	26:F1:183:GLY:HA2	2.16	0.46
29:K1:32:HIS:N	29:K1:41:PRO:HA	2.22	0.46
2:U2:86:LYS:O	2:U2:87:ARG:NH2	2.45	0.46
12:J2:50:LEU:HD13	12:J2:102:ILE:HD13	1.98	0.46
14:N2:91:LEU:HD11	14:N2:121:ARG:HD2	1.98	0.46
18:Z2:66:LYS:HD3	26:F2:102:LEU:O	2.15	0.46
18:Z2:111:ARG:C	18:Z2:113:THR:N	2.73	0.46
21:i2:380:G:H5''	28:I2:31:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:996:A:O2'	21:i2:997:A:OP2	2.30	0.46
21:i2:1852:C:H2'	21:i2:1853:C:C6	2.50	0.46
22:A2:34:MET:HE1	22:A2:148:CYS:HB2	1.96	0.46
24:D2:64:ARG:HG3	29:K2:95:ARG:HH22	1.76	0.46
33:R2:94:GLU:HA	33:R2:96:ILE:HG12	1.98	0.46
6:c3:14:VAL:HG23	6:c3:53:GLY:H	1.79	0.46
9:g3:14:HIS:CD2	9:g3:41:ILE:HG13	2.50	0.46
11:G3:92:ARG:NH2	21:i3:1738:C:OP1	2.48	0.46
16:W3:76:SER:HB3	21:i3:1159:G:P	2.55	0.46
21:i3:50:A:H62	21:i3:477:G:H21	1.63	0.46
21:i3:187:G:H8	21:i3:187:G:O5'	1.98	0.46
21:i3:189:U:H3	21:i3:210:U:H3	1.64	0.46
21:i3:301:A:O2'	28:I3:73:THR:OG1	2.33	0.46
25:E3:124:CYS:SG	25:E3:141:THR:HB	2.56	0.46
34:S3:90:VAL:HG21	34:S3:113:ARG:NH1	2.31	0.46
4:X4:22:TRP:NE1	21:i4:359:U:OP1	2.37	0.46
15:O4:43:HIS:HA	15:O4:55:ARG:HA	1.97	0.46
21:i4:209:A:C6	21:i4:210:U:H1'	2.51	0.46
21:i4:555:A:H8	21:i4:556:U:H4'	1.80	0.46
21:i4:1640:A:H2'	21:i4:1641:A:O4'	2.15	0.46
21:i4:1644:C:H2'	21:i4:1645:C:C6	2.51	0.46
22:A4:27:GLY:HA3	22:A4:150:THR:OG1	2.15	0.46
24:D4:35:SER:HB2	24:D4:51:LEU:O	2.15	0.46
25:E4:99:PHE:CD1	25:E4:113:ARG:HG2	2.51	0.46
29:K4:93:THR:CB	29:K4:95:ARG:NH1	2.79	0.46
33:R4:58:MET:C	33:R4:61:ILE:CG1	2.82	0.46
5:a5:101:PHE:C	5:a5:102:ARG:CD	2.89	0.46
9:g5:11:LEU:H	9:g5:306:LEU:HD11	1.81	0.46
10:C5:196:ILE:CG2	10:C5:223:TYR:HB2	2.46	0.46
12:J5:49:THR:O	12:J5:53:ILE:HG12	2.15	0.46
14:N5:3:ARG:HD3	21:i5:924:G:OP1	2.16	0.46
21:i5:380:G:H5''	28:I5:31:ARG:NH1	2.29	0.46
21:i5:868:G:O2'	21:i5:869:A:OP1	2.28	0.46
21:i5:1013:U:OP1	21:i5:1129:G:O2'	2.32	0.46
21:i5:1670:C:H2'	21:i5:1671:G:C8	2.49	0.46
21:i5:1750:C:O2	21:i5:1784:G:O6	2.34	0.46
24:D5:76:ARG:HD3	29:K5:22:VAL:HB	1.97	0.46
25:E5:141:THR:OG1	25:E5:145:ARG:N	2.49	0.46
26:F5:128:ILE:N	26:F5:137:GLN:OE1	2.35	0.46
27:H5:65:PRO:HB2	27:H5:68:GLN:HE22	1.81	0.46
27:H5:72:PHE:HB3	27:H5:76:GLN:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a6:101:PHE:C	5:a6:102:ARG:CD	2.89	0.46
6:c6:23:SER:HB3	26:F6:127:ARG:HG2	1.96	0.46
9:g6:236:ILE:HG21	9:g6:239:LEU:HB2	1.97	0.46
10:C6:273:LEU:HD12	10:C6:280:VAL:HG21	1.97	0.46
12:J6:83:ARG:HG3	12:J6:150:ARG:NE	2.30	0.46
21:i6:71:G:H3'	21:i6:72:C:H5''	1.97	0.46
21:i6:545:A:O2'	21:i6:546:G:H8	1.99	0.46
21:i6:1113:A:H3'	21:i6:1114:U:H5'	1.97	0.46
31:P6:41:GLN:CA	31:P6:84:ILE:HD13	2.45	0.46
36:k2:86:HIS:NE2	36:k2:141:HIS:CA	2.79	0.46
36:k3:95:GLN:OE1	36:k3:95:GLN:HA	2.13	0.46
36:k5:95:GLN:H	36:k5:133:ALA:C	2.15	0.46
36:k6:83:ARG:HH21	36:k6:175:TRP:CD1	2.26	0.46
37:l1:130:ARG:O	37:l1:131:VAL:HG22	2.15	0.46
37:l6:158:VAL:HG23	37:l6:164:ILE:CD1	2.45	0.46
11:G1:148:SER:OG	11:G1:149:LYS:HA	2.16	0.46
12:J1:83:ARG:HG3	12:J1:150:ARG:NE	2.30	0.46
14:N1:76:LYS:C	14:N1:79:GLY:H	2.23	0.46
15:O1:43:HIS:HA	15:O1:55:ARG:HA	1.97	0.46
16:W1:76:SER:HB3	21:i1:1159:G:P	2.56	0.46
17:Y1:112:ASN:HD22	21:i1:53:C:P	2.38	0.46
21:i1:50:A:H62	21:i1:477:G:H21	1.63	0.46
21:i1:290:U:O2'	21:i1:292:A:N7	2.49	0.46
21:i1:490:C:H42	21:i1:510:G:H1	1.63	0.46
21:i1:735:C:H3'	21:i1:735:C:C6	2.49	0.46
21:i1:1270:G:O2'	21:i1:1301:A:N7	2.42	0.46
21:i1:1842:C:C2	35:j1:4:LYS:NZ	2.83	0.46
22:A1:34:MET:HE1	22:A1:148:CYS:HB2	1.97	0.46
24:D1:71:ALA:HB1	24:D1:75:LYS:HD2	1.98	0.46
25:E1:71:LYS:HD3	25:E1:74:GLY:HA2	1.98	0.46
31:P1:34:MET:C	31:P1:42:ARG:HG3	2.41	0.46
3:V2:70:LEU:HD21	22:A2:57:LYS:HD3	1.97	0.46
9:g2:171:ASP:O	9:g2:173:LEU:HG	2.15	0.46
10:C2:189:GLY:C	10:C2:191:VAL:H	2.22	0.46
10:C2:191:VAL:HA	10:C2:228:GLY:HA3	1.98	0.46
10:C2:273:LEU:HD12	10:C2:280:VAL:HG21	1.97	0.46
11:G2:180:VAL:HG11	21:i2:142:C:O2	2.15	0.46
11:G2:186:GLN:CD	21:i2:331:C:N3	2.67	0.46
13:M2:101:ARG:HG3	13:M2:102:LYS:N	2.30	0.46
14:N2:141:TYR:HE1	14:N2:146:ALA:HB1	1.81	0.46
15:O2:99:ALA:O	15:O2:101:GLY:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:290:U:O2'	21:i2:292:A:N7	2.49	0.46
21:i2:1083:A:O2'	21:i2:1858:G:N2	2.43	0.46
21:i2:1490:G:H2'	21:i2:1491:G:C8	2.50	0.46
26:F2:137:GLN:O	26:F2:138:ALA:CB	2.63	0.46
28:I2:79:ILE:HG21	28:I2:170:LYS:HD3	1.97	0.46
30:L2:135:SER:HB3	30:L2:138:VAL:HB	1.97	0.46
31:P2:15:PHE:CE2	31:P2:17:TYR:HB2	2.50	0.46
31:P2:41:GLN:CD	31:P2:84:ILE:CD1	2.87	0.46
31:P2:115:TYR:CZ	31:P2:118:GLU:HB2	2.50	0.46
3:V3:69:ILE:O	3:V3:73:ALA:N	2.38	0.46
9:g3:215:GLN:HG2	9:g3:231:ASP:HB3	1.96	0.46
11:G3:180:VAL:HG11	21:i3:142:C:O2	2.15	0.46
16:W3:106:THR:OG1	16:W3:111:MET:HE3	2.16	0.46
17:Y3:9:THR:H	17:Y3:26:ASP:HB3	1.81	0.46
21:i3:115:U:O2'	21:i3:381:C:O2	2.28	0.46
21:i3:523:A:C6	21:i3:524:U:C2	3.04	0.46
21:i3:1069:U:O2'	36:k3:16:GLN:NE2	2.49	0.46
21:i3:1113:A:H3'	21:i3:1114:U:H5'	1.97	0.46
21:i3:1393:G:H2'	21:i3:1394:G:C8	2.51	0.46
22:A3:27:GLY:HA3	22:A3:150:THR:OG1	2.15	0.46
22:A3:173:LEU:HB2	22:A3:203:PHE:HE1	1.80	0.46
22:A3:214:GLU:CB	33:R3:84:TYR:CE1	2.99	0.46
23:B3:224:GLU:CD	23:B3:226:GLY:H	2.24	0.46
24:D3:54:ARG:HB2	24:D3:58:VAL:HG13	1.98	0.46
24:D3:106:ARG:HG3	24:D3:107:TYR:N	2.30	0.46
25:E3:71:LYS:HD3	25:E3:74:GLY:HA2	1.98	0.46
28:I3:79:ILE:HG21	28:I3:170:LYS:HD3	1.97	0.46
28:I3:142:SER:O	28:I3:144:LYS:N	2.47	0.46
30:L3:57:ASP:OD1	30:L3:58:LYS:N	2.49	0.46
33:R3:94:GLU:HA	33:R3:96:ILE:HG12	1.97	0.46
4:X4:61:GLN:OE1	21:i4:1824:A:N7	2.47	0.46
9:g4:230:LEU:HB3	9:g4:259:TRP:HZ3	1.80	0.46
12:J4:58:ARG:O	12:J4:62:THR:HG23	2.16	0.46
12:J4:143:ASN:HB3	21:i4:823:U:H5	1.80	0.46
15:O4:135:ILE:HD12	21:i4:986:G:N2	2.30	0.46
16:W4:76:SER:HB3	21:i4:1159:G:P	2.56	0.46
17:Y4:9:THR:H	17:Y4:26:ASP:HB3	1.81	0.46
18:Z4:46:ASN:ND2	18:Z4:79:ILE:O	2.48	0.46
21:i4:315:C:H2'	21:i4:316:G:C8	2.50	0.46
21:i4:450:C:H2'	21:i4:451:G:H5''	1.97	0.46
21:i4:553:U:H2'	21:i4:554:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1869:A:N7	23:B4:112:SER:HA	2.31	0.46
33:R4:68:GLY:HA3	33:R4:69:ILE:HA	1.71	0.46
1:T5:34:VAL:HG23	1:T5:35:ASP:H	1.81	0.46
2:U5:17:ILE:HG23	2:U5:95:SER:N	1.91	0.46
13:M5:101:ARG:HG3	13:M5:102:LYS:N	2.30	0.46
14:N5:136:PRO:HB2	14:N5:139:TRP:HB2	1.97	0.46
18:Z5:111:ARG:C	18:Z5:113:THR:N	2.73	0.46
20:e5:34:ARG:HA	20:e5:34:ARG:HD3	1.37	0.46
21:i5:368:U:C2	36:k4:109:ALA:HB2	2.48	0.46
21:i5:558:G:H8	21:i5:558:G:O5'	1.98	0.46
21:i5:1113:A:H3'	21:i5:1114:U:H5'	1.97	0.46
21:i5:1644:C:H2'	21:i5:1645:C:C6	2.51	0.46
30:L5:135:SER:HB3	30:L5:138:VAL:HB	1.97	0.46
34:S5:90:VAL:HG21	34:S5:113:ARG:NH1	2.30	0.46
3:V6:65:SER:O	3:V6:68:SER:OG	2.23	0.46
5:a6:100:ARG:CZ	5:a6:100:ARG:CB	2.88	0.46
10:C6:272:HIS:C	10:C6:274:VAL:N	2.74	0.46
11:G6:210:ALA:O	11:G6:215:LYS:HB2	2.14	0.46
16:W6:33:VAL:HG13	16:W6:34:ILE:HG23	1.98	0.46
18:Z6:111:ARG:C	18:Z6:113:THR:N	2.73	0.46
21:i6:587:A:H1'	21:i6:589:G:N2	2.30	0.46
21:i6:1406:G:H22	21:i6:1441:U:H3	1.62	0.46
21:i6:1689:C:H2'	21:i6:1690:U:H5'	1.98	0.46
22:A6:27:GLY:HA3	22:A6:150:THR:OG1	2.15	0.46
22:A6:34:MET:HE1	22:A6:148:CYS:HB2	1.96	0.46
34:S6:90:VAL:HG21	34:S6:113:ARG:NH1	2.30	0.46
36:k6:33:PHE:CE1	36:k6:92:LEU:CD1	2.98	0.46
36:k6:68:LEU:CD1	36:k6:174:LEU:CD1	2.86	0.46
37:l2:170:PHE:N	37:l2:170:PHE:CD1	2.83	0.46
37:l3:170:PHE:N	37:l3:170:PHE:CD1	2.83	0.46
37:l4:127:TYR:H	37:l4:168:GLY:HA2	1.80	0.46
37:l6:127:TYR:H	37:l6:168:GLY:HA2	1.80	0.46
37:l6:182:TRP:HE3	37:l6:183:PRO:CB	2.26	0.46
37:l6:182:TRP:CE3	37:l6:183:PRO:HB3	2.46	0.46
1:T1:5:THR:OG1	1:T1:6:VAL:N	2.43	0.46
4:X1:90:CYS:HB3	4:X1:130:LEU:HD11	1.98	0.46
5:a1:6:ARG:HH21	21:i1:1134:G:P	2.39	0.46
9:g1:230:LEU:HB3	9:g1:259:TRP:HZ3	1.81	0.46
11:G1:36:VAL:N	11:G1:50:VAL:O	2.47	0.46
12:J1:5:ARG:HD2	21:i1:38:A:H5''	1.97	0.46
14:N1:141:TYR:HE1	14:N1:146:ALA:HB1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z1:85:ARG:CZ	21:i1:1596:U:C5	2.90	0.46
21:i1:1763:G:C4'	34:S6:116:LYS:HD3	2.44	0.46
24:D1:64:ARG:HD3	29:K1:95:ARG:NH2	2.24	0.46
29:K1:93:THR:CB	29:K1:95:ARG:NH1	2.79	0.46
16:W2:76:SER:HB3	21:i2:1159:G:P	2.56	0.46
20:e2:25:LYS:HE2	21:i2:554:A:O5'	2.15	0.46
21:i2:98:C:H42	21:i2:432:G:H1	1.63	0.46
21:i2:380:G:P	28:I2:56:ARG:HH22	2.39	0.46
21:i2:1414:A:N6	21:i2:1419:C:H41	2.14	0.46
21:i2:1849:G:OP2	37:I2:146:ARG:CZ	2.63	0.46
24:D2:56:GLN:HA	24:D2:59:LEU:HD13	1.98	0.46
26:F2:106:GLU:HG2	26:F2:107:ASN:N	2.28	0.46
33:R2:44:LYS:HG3	33:R2:47:ARG:NH2	2.28	0.46
4:X3:22:TRP:NE1	21:i3:359:U:OP1	2.37	0.46
10:C3:188:CYS:SG	10:C3:191:VAL:HB	2.55	0.46
12:J3:136:ARG:HA	12:J3:141:VAL:HA	1.97	0.46
18:Z3:111:ARG:C	18:Z3:113:THR:N	2.73	0.46
21:i3:1013:U:OP1	21:i3:1129:G:O2'	2.32	0.46
21:i3:1784:G:H2'	21:i3:1784:G:N3	2.29	0.46
25:E3:141:THR:OG1	25:E3:145:ARG:N	2.49	0.46
27:H3:121:THR:HG22	27:H3:123:THR:H	1.81	0.46
27:H3:147:LYS:O	27:H3:149:ASP:N	2.48	0.46
28:I3:130:THR:HB	28:I3:131:PRO:HD3	1.96	0.46
10:C4:191:VAL:HA	10:C4:228:GLY:HA3	1.98	0.46
10:C4:275:LYS:CE	10:C4:275:LYS:HA	2.46	0.46
15:O4:99:ALA:O	15:O4:101:GLY:N	2.48	0.46
16:W4:33:VAL:HG13	16:W4:34:ILE:HG23	1.98	0.46
21:i4:800:U:H3	21:i4:865:A:H2	1.62	0.46
21:i4:883:U:H2'	21:i4:884:C:C6	2.51	0.46
21:i4:1565:C:H2'	21:i4:1566:G:O4'	2.16	0.46
27:H4:72:PHE:HB3	27:H4:76:GLN:HG2	1.97	0.46
30:L4:57:ASP:OD1	30:L4:58:LYS:N	2.49	0.46
31:P4:108:LYS:HB3	31:P4:109:PRO:CD	2.40	0.46
33:R4:102:THR:O	33:R4:105:MET:HG2	2.15	0.46
34:S4:16:LEU:HD21	34:S4:72:GLN:NE2	2.29	0.46
2:U5:50:VAL:HG23	2:U5:91:LEU:HD21	1.95	0.46
7:d5:30:LEU:HA	7:d5:39:CYS:HA	1.97	0.46
14:N5:141:TYR:HE1	14:N5:146:ALA:HB1	1.80	0.46
21:i5:883:U:H2'	21:i5:884:C:C6	2.51	0.46
21:i5:1021:U:H4'	21:i5:1022:U:O4'	2.16	0.46
21:i5:1199:A:H2'	21:i5:1200:A:O4'	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B5:224:GLU:CD	23:B5:226:GLY:H	2.24	0.46
24:D5:54:ARG:HB2	24:D5:58:VAL:HG13	1.98	0.46
24:D5:76:ARG:HH21	29:K5:66:HIS:CE1	2.34	0.46
29:K5:58:VAL:CG2	29:K5:69:TRP:HB3	2.46	0.46
31:P5:119:PHE:CD1	34:S5:119:ALA:CA	2.99	0.46
7:d6:9:SER:C	21:i6:1513:C:H5'	2.41	0.46
7:d6:22:ARG:HA	29:K6:65:ARG:HE	1.79	0.46
8:f6:95:ARG:HD2	21:i6:1289:U:H5''	1.76	0.46
11:G6:180:VAL:HG11	21:i6:142:C:O2	2.15	0.46
11:G6:194:LEU:O	11:G6:198:ARG:N	2.43	0.46
12:J6:58:ARG:O	12:J6:62:THR:HG23	2.16	0.46
21:i6:883:U:H2'	21:i6:884:C:C6	2.51	0.46
21:i6:1204:A:H1'	21:i6:1699:A:H2'	1.98	0.46
21:i6:1277:C:H3'	21:i6:1278:A:C8	2.51	0.46
21:i6:1310:U:H2'	21:i6:1311:C:O4'	2.14	0.46
21:i6:1415:C:H2'	21:i6:1417:C:H5'	1.97	0.46
21:i6:1520:G:H5'	34:S6:136:THR:OG1	2.15	0.46
25:E6:56:LEU:HD23	25:E6:57:THR:HG23	1.97	0.46
26:F6:191:LYS:HA	26:F6:194:ASP:CB	2.46	0.46
36:k1:9:GLU:O	36:k1:56:HIS:HE1	1.99	0.46
36:k2:144:CYS:HB2	36:k2:168:HIS:N	2.31	0.46
36:k3:2:PHE:CG	36:k3:168:HIS:CE1	2.99	0.46
36:k4:39:TRP:CE2	36:k4:90:PHE:CZ	3.03	0.46
36:k5:170:LEU:CG	36:k5:171:ASN:N	2.73	0.46
37:l3:128:VAL:HG13	37:l3:166:ILE:CB	2.41	0.46
5:a1:42:ARG:HB2	5:a1:67:LEU:HD11	1.98	0.46
8:f1:130:VAL:HG13	21:i1:1310:U:C5'	2.20	0.46
9:g1:236:ILE:HG21	9:g1:239:LEU:HB2	1.97	0.46
15:O1:135:ILE:HD12	21:i1:986:G:N2	2.30	0.46
19:b1:38:PRO:HB3	19:b1:77:CYS:SG	2.56	0.46
21:i1:1490:G:H2'	21:i1:1491:G:C8	2.50	0.46
21:i1:1644:C:H2'	21:i1:1645:C:C6	2.50	0.46
21:i1:1807:C:H2'	21:i1:1808:U:C6	2.51	0.46
21:i1:1842:C:C5	35:j1:4:LYS:CE	2.99	0.46
22:A1:104:THR:OG1	22:A1:107:THR:OG1	2.25	0.46
22:A1:173:LEU:HB2	22:A1:203:PHE:HE1	1.80	0.46
24:D1:54:ARG:HB2	24:D1:58:VAL:HG13	1.98	0.46
29:K1:58:VAL:CG2	29:K1:69:TRP:HB3	2.46	0.46
30:L1:135:SER:HB3	30:L1:138:VAL:HB	1.97	0.46
1:T2:133:ARG:NH2	21:i2:1420:G:H5'	2.31	0.46
4:X2:91:LEU:O	4:X2:94:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g2:220:ASP:OD1	9:g2:227:LEU:HG	2.16	0.46
10:C2:65:LYS:HG2	10:C2:279:ARG:HE	1.77	0.46
11:G2:148:SER:OG	11:G2:149:LYS:HA	2.16	0.46
11:G2:181:THR:HG22	11:G2:184:VAL:HG23	1.97	0.46
17:Y2:9:THR:H	17:Y2:26:ASP:HB3	1.80	0.46
20:e2:45:VAL:HG11	21:i2:535:G:H5'	1.98	0.46
21:i2:356:C:OP2	30:L2:105:ARG:NH1	2.20	0.46
21:i2:969:U:C5	28:I4:161:LEU:CG	2.78	0.46
21:i2:1539:U:H3	21:i2:1594:A:H61	1.62	0.46
21:i2:1670:C:H2'	21:i2:1671:G:C8	2.49	0.46
22:A2:173:LEU:HB2	22:A2:203:PHE:HE1	1.80	0.46
24:D2:204:LEU:C	24:D2:206:ASP:H	2.19	0.46
4:X3:91:LEU:O	4:X3:94:ILE:HG22	2.16	0.46
5:a3:101:PHE:C	5:a3:102:ARG:CD	2.89	0.46
11:G3:152:ASP:OD1	11:G3:155:GLN:HG2	2.16	0.46
12:J3:49:THR:O	12:J3:53:ILE:HG12	2.15	0.46
21:i3:587:A:H1'	21:i3:589:G:N2	2.30	0.46
21:i3:1807:C:H2'	21:i3:1808:U:C6	2.50	0.46
26:F3:191:LYS:HA	26:F3:194:ASP:CB	2.46	0.46
34:S3:16:LEU:HD21	34:S3:72:GLN:NE2	2.29	0.46
35:j3:13:LEU:HD22	35:j3:13:LEU:O	2.16	0.46
1:T4:28:LEU:HD13	1:T4:54:TYR:CD2	2.50	0.46
4:X4:91:LEU:O	4:X4:94:ILE:HG22	2.16	0.46
5:a4:42:ARG:HB2	5:a4:67:LEU:HD11	1.98	0.46
9:g4:65:PHE:O	9:g4:83:TRP:HD1	1.98	0.46
10:C4:65:LYS:HG2	10:C4:279:ARG:HE	1.78	0.46
11:G4:66:GLY:O	21:i4:1791:A:H1'	2.16	0.46
14:N4:91:LEU:HD11	14:N4:121:ARG:HD2	1.98	0.46
20:e4:8:ARG:CD	20:e4:11:LYS:HD3	2.46	0.46
21:i4:1175:G:OP2	35:j4:21:ARG:NH2	2.49	0.46
23:B4:21:VAL:CA	30:L5:31:GLU:OE1	2.37	0.46
23:B4:224:GLU:CD	23:B4:226:GLY:H	2.24	0.46
24:D4:35:SER:H	24:D4:52:ALA:HA	1.81	0.46
24:D4:54:ARG:HB2	24:D4:58:VAL:HG13	1.98	0.46
25:E4:82:TYR:CD1	25:E4:83:PRO:HD2	2.51	0.46
30:L4:152:LYS:HD2	30:L4:152:LYS:H	1.80	0.46
5:a5:6:ARG:HH21	21:i5:1134:G:P	2.39	0.46
9:g5:155:ARG:HB2	9:g5:199:THR:HA	1.98	0.46
11:G5:181:THR:HG22	11:G5:184:VAL:HG23	1.98	0.46
11:G5:220:ALA:HA	11:G5:223:LYS:HZ1	1.81	0.46
16:W5:27:ILE:HG12	16:W5:61:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1200:A:N3	21:i5:1357:A:H2	2.12	0.46
21:i5:1619:A:H4'	31:P5:44:ARG:NH2	2.31	0.46
21:i5:1621:U:OP2	31:P5:40:ARG:HG3	2.15	0.46
21:i5:1807:C:H2'	21:i5:1808:U:C6	2.50	0.46
24:D5:106:ARG:HB3	24:D5:175:VAL:HG12	1.97	0.46
25:E5:82:TYR:CD1	25:E5:83:PRO:HD2	2.51	0.46
29:K5:93:THR:CB	29:K5:95:ARG:NH1	2.79	0.46
33:R5:102:THR:O	33:R5:105:MET:HG2	2.15	0.46
2:U6:81:GLN:HG2	7:d6:55:LEU:HD12	1.98	0.46
10:C6:189:GLY:C	10:C6:191:VAL:H	2.22	0.46
15:O6:130:GLU:HG2	15:O6:131:ASP:N	2.28	0.46
21:i6:211:G:C6	21:i6:212:C:C2	3.04	0.46
21:i6:1755:C:O2'	21:i6:1777:G:N2	2.48	0.46
23:B6:71:LEU:HA	23:B6:74:LEU:HB3	1.97	0.46
24:D6:76:ARG:HD3	29:K6:22:VAL:HB	1.98	0.46
24:D6:132:LYS:HE3	24:D6:189:MET:HE2	1.97	0.46
28:I6:81:VAL:HG22	28:I6:102:VAL:HG12	1.98	0.46
30:L6:135:SER:HB3	30:L6:138:VAL:HB	1.97	0.46
36:k1:36:ILE:CA	36:k1:91:ILE:HG22	2.46	0.46
36:k3:79:TYR:HD1	36:k3:131:ILE:HG23	1.81	0.46
36:k3:86:HIS:NE2	36:k3:142:ALA:N	2.63	0.46
36:k4:95:GLN:HB3	36:k4:164:ILE:HD12	1.96	0.46
36:k5:83:ARG:NH1	36:k5:175:TRP:CE2	2.84	0.46
37:l6:130:ARG:O	37:l6:131:VAL:HG22	2.15	0.46
1:T1:133:ARG:NH2	21:i1:1420:G:H5'	2.31	0.46
10:C1:272:HIS:O	10:C1:274:VAL:N	2.42	0.46
11:G1:152:ASP:OD1	11:G1:155:GLN:HG2	2.16	0.46
12:J1:107:GLU:O	12:J1:112:THR:OG1	2.33	0.46
14:N1:149:LEU:C	14:N1:149:LEU:CD2	2.89	0.46
18:Z1:86:ALA:HB1	34:S1:3:LEU:HG	1.98	0.46
21:i1:380:G:P	28:I1:56:ARG:HH22	2.39	0.46
21:i1:525:A:H2'	21:i1:526:A:C8	2.51	0.46
21:i1:1214:A:O2'	21:i1:1216:C:OP1	2.28	0.46
22:A1:27:GLY:HA3	22:A1:150:THR:OG1	2.15	0.46
23:B1:33:VAL:HG13	23:B1:96:CYS:O	2.16	0.46
23:B1:197:ILE:O	23:B1:201:CYS:N	2.35	0.46
24:D1:56:GLN:HA	24:D1:59:LEU:HD13	1.98	0.46
25:E1:82:TYR:CD1	25:E1:83:PRO:HD2	2.51	0.46
34:S1:16:LEU:HD21	34:S1:72:GLN:NE2	2.29	0.46
1:T2:34:VAL:HG23	1:T2:35:ASP:H	1.81	0.46
4:X2:91:LEU:HD21	20:e2:6:LEU:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a2:42:ARG:HB2	5:a2:67:LEU:HD11	1.98	0.46
5:a2:102:ARG:CB	5:a2:103:PRO:CA	2.87	0.46
7:d2:30:LEU:HA	7:d2:39:CYS:HA	1.98	0.46
9:g2:14:HIS:CD2	9:g2:41:ILE:HG13	2.50	0.46
17:Y2:113:ARG:HA	17:Y2:116:LYS:HZ1	1.80	0.46
18:Z2:86:ALA:HB1	34:S2:3:LEU:HG	1.98	0.46
21:i2:375:U:OP2	30:L2:59:LYS:NZ	2.41	0.46
21:i2:1520:G:H5'	34:S2:136:THR:OG1	2.15	0.46
21:i2:1565:C:H2'	21:i2:1566:G:O4'	2.16	0.46
21:i2:1569:A:O2'	21:i2:1626:C:O2	2.25	0.46
23:B2:71:LEU:HA	23:B2:74:LEU:HB3	1.97	0.46
25:E2:141:THR:OG1	25:E2:145:ARG:N	2.49	0.46
30:L2:57:ASP:OD1	30:L2:58:LYS:N	2.49	0.46
31:P2:57:LEU:HD23	31:P2:61:ARG:NH2	2.30	0.46
2:U3:81:GLN:HG2	7:d3:55:LEU:HD12	1.98	0.46
5:a3:6:ARG:HH21	21:i3:1134:G:P	2.39	0.46
9:g3:220:ASP:OD1	9:g3:227:LEU:HG	2.16	0.46
10:C3:64:THR:OG1	10:C3:279:ARG:NH2	2.48	0.46
11:G3:194:LEU:O	11:G3:198:ARG:N	2.43	0.46
18:Z3:66:LYS:HD3	26:F3:102:LEU:O	2.15	0.46
21:i3:146:G:O6	21:i3:147:A:N6	2.49	0.46
21:i3:335:G:H2'	21:i3:336:A:C8	2.50	0.46
21:i3:1021:U:H4'	21:i3:1022:U:O4'	2.15	0.46
21:i3:1531:A:OP2	26:F3:81:ARG:NH1	2.46	0.46
25:E3:125:LYS:HG2	25:E3:126:VAL:O	2.15	0.46
26:F3:179:ASN:O	26:F3:183:GLY:HA2	2.16	0.46
28:I3:194:GLU:HB2	30:L3:18:GLN:HE21	1.79	0.46
30:L3:5:GLN:O	30:L3:7:GLU:N	2.46	0.46
8:f4:93:HIS:CB	21:i4:1304:U:H4'	2.28	0.46
10:C4:267:GLN:C	10:C4:269:PHE:H	2.24	0.46
11:G4:141:ILE:HG12	11:G4:144:LEU:CD1	2.46	0.46
12:J4:60:LEU:HD11	12:J4:70:ARG:HA	1.97	0.46
21:i4:148:U:H2'	21:i4:149:A:H8	1.80	0.46
21:i4:380:G:P	28:I4:56:ARG:HH22	2.39	0.46
21:i4:509:G:H2'	21:i4:510:G:H8	1.80	0.46
21:i4:1808:U:H2'	21:i4:1809:A:C8	2.50	0.46
22:A4:149:ASN:HB2	22:A4:165:ASN:OD1	2.16	0.46
24:D4:43:PRO:O	24:D4:44:THR:OG1	2.32	0.46
27:H4:98:ARG:O	27:H4:100:ILE:N	2.48	0.46
28:I4:81:VAL:HG22	28:I4:102:VAL:HG12	1.98	0.46
31:P4:115:TYR:CZ	31:P4:118:GLU:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R4:69:ILE:HG12	33:R4:70:SER:HA	1.97	0.46
4:X5:52:LEU:HD22	4:X5:53:GLU:HG2	1.98	0.46
4:X5:90:CYS:HB3	4:X5:130:LEU:HD11	1.98	0.46
5:a5:37:LYS:HG2	5:a5:72:HIS:CE1	2.51	0.46
11:G5:139:SER:HA	11:G5:142:ARG:CD	2.43	0.46
11:G5:149:LYS:NZ	11:G5:149:LYS:CB	2.75	0.46
12:J5:163:SER:H	12:J5:167:GLY:HA3	1.81	0.46
16:W5:33:VAL:HG13	16:W5:34:ILE:HG23	1.98	0.46
18:Z5:57:LYS:HE2	18:Z5:77:LEU:HD11	1.98	0.46
21:i5:380:G:P	28:I5:56:ARG:HH22	2.39	0.46
21:i5:1103:C:N3	21:i5:1130:G:N2	2.64	0.46
21:i5:1490:G:H2'	21:i5:1491:G:C8	2.50	0.46
21:i5:1640:A:H2'	21:i5:1641:A:O4'	2.15	0.46
21:i5:1869:A:N7	23:B5:112:SER:HA	2.31	0.46
22:A5:27:GLY:HA3	22:A5:150:THR:OG1	2.15	0.46
24:D5:35:SER:H	24:D5:52:ALA:HA	1.81	0.46
26:F5:104:THR:OG1	26:F5:178:ILE:HD12	2.16	0.46
31:P5:50:ARG:HA	31:P5:50:ARG:HD3	1.73	0.46
34:S5:16:LEU:HD21	34:S5:72:GLN:NE2	2.29	0.46
9:g6:65:PHE:O	9:g6:83:TRP:HD1	1.98	0.46
11:G6:209:TYR:HD1	11:G6:213:LEU:HD23	1.79	0.46
14:N6:149:LEU:CD2	14:N6:149:LEU:C	2.89	0.46
15:O6:43:HIS:HA	15:O6:55:ARG:HA	1.97	0.46
21:i6:1349:G:H1	21:i6:1380:C:H42	1.63	0.46
26:F6:104:THR:OG1	26:F6:178:ILE:HD12	2.16	0.46
27:H6:68:GLN:O	27:H6:71:SER:OG	2.25	0.46
36:k2:176:HIS:C	36:k2:178:LYS:H	2.23	0.46
37:l2:152:PHE:HE1	37:l2:173:ASP:OD1	1.92	0.46
37:l3:113:GLN:HA	37:l3:114:LYS:HA	1.58	0.46
37:l6:170:PHE:N	37:l6:170:PHE:CD1	2.83	0.46
9:g1:11:LEU:H	9:g1:306:LEU:HD11	1.80	0.46
12:J1:58:ARG:O	12:J1:62:THR:HG23	2.16	0.46
12:J1:163:SER:H	12:J1:167:GLY:HA3	1.81	0.46
16:W1:106:THR:OG1	16:W1:111:MET:HE3	2.16	0.46
19:b1:37:CYS:CA	19:b1:63:LEU:CD2	2.89	0.46
21:i1:148:U:H2'	21:i1:149:A:H8	1.80	0.46
21:i1:509:G:H2'	21:i1:510:G:C8	2.51	0.46
21:i1:938:A:H2'	21:i1:939:U:O4'	2.16	0.46
21:i1:1454:A:C8	33:R1:3:ARG:HG3	2.51	0.46
21:i1:1828:C:H1'	37:l1:153:SER:O	2.16	0.46
21:i1:1842:C:C3'	35:j1:4:LYS:NZ	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1865:C:H5'	21:i1:1866:A:N7	2.31	0.46
23:B1:224:GLU:CD	23:B1:226:GLY:H	2.24	0.46
25:E1:99:PHE:CD1	25:E1:113:ARG:HG2	2.50	0.46
26:F1:104:THR:OG1	26:F1:178:ILE:HD12	2.16	0.46
28:I1:141:ARG:NH1	26:F6:191:LYS:CD	2.79	0.46
33:R1:102:THR:O	33:R1:105:MET:HG2	2.15	0.46
35:j1:13:LEU:HD22	35:j1:13:LEU:O	2.16	0.46
2:U2:81:GLN:HG2	7:d2:55:LEU:HD12	1.98	0.46
14:N2:3:ARG:HD3	21:i2:924:G:OP1	2.16	0.46
21:i2:12:U:C1'	21:i2:1357:A:C1'	2.89	0.46
21:i2:338:G:O2'	21:i2:339:A:H5'	2.16	0.46
21:i2:490:C:H42	21:i2:510:G:H1	1.63	0.46
21:i2:1096:G:H2'	21:i2:1097:G:H8	1.81	0.46
21:i2:1393:G:H2'	21:i2:1394:G:C8	2.51	0.46
21:i2:1511:U:O2'	21:i2:1512:C:O5'	2.32	0.46
21:i2:1869:A:N7	23:B2:112:SER:HA	2.31	0.46
25:E2:99:PHE:CD1	25:E2:113:ARG:HG2	2.50	0.46
26:F2:104:THR:OG1	26:F2:178:ILE:HD12	2.16	0.46
27:H2:121:THR:HG22	27:H2:123:THR:H	1.81	0.46
28:I2:177:SER:OG	28:I2:184:ARG:O	2.30	0.46
2:U3:17:ILE:HG23	2:U3:95:SER:N	1.90	0.46
9:g3:107:ASP:HB3	9:g3:125:ARG:HG2	1.96	0.46
9:g3:170:TRP:HB3	9:g3:194:TYR:HB2	1.98	0.46
10:C3:272:HIS:C	10:C3:274:VAL:N	2.74	0.46
10:C3:273:LEU:HD12	10:C3:280:VAL:HG21	1.97	0.46
11:G3:148:SER:OG	11:G3:149:LYS:HA	2.16	0.46
12:J3:107:GLU:O	12:J3:112:THR:OG1	2.33	0.46
17:Y3:54:VAL:HB	17:Y3:76:TYR:HB2	1.98	0.46
18:Z3:86:ALA:HB1	34:S3:3:LEU:HG	1.98	0.46
21:i3:337:C:H2'	21:i3:338:G:C4'	2.15	0.46
21:i3:1208:A:C2	21:i3:1209:A:C5	3.03	0.46
21:i3:1236:G:C5'	31:P3:133:ILE:HB	2.46	0.46
21:i3:1869:A:N7	23:B3:112:SER:HA	2.31	0.46
24:D3:71:ALA:HB1	24:D3:75:LYS:HD2	1.98	0.46
29:K3:10:ALA:O	29:K3:14:LEU:N	2.37	0.46
4:X4:61:GLN:HB2	21:i4:1824:A:N7	2.30	0.46
5:a4:101:PHE:C	5:a4:102:ARG:CD	2.89	0.46
6:c4:14:VAL:HG23	6:c4:53:GLY:H	1.79	0.46
11:G4:194:LEU:HA	11:G4:197:GLN:HB3	1.96	0.46
12:J4:50:LEU:HD13	12:J4:102:ILE:HD13	1.98	0.46
14:N4:76:LYS:C	14:N4:79:GLY:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W4:120:HIS:NE2	21:i4:805:U:O3'	2.42	0.46
17:Y4:54:VAL:HB	17:Y4:76:TYR:HB2	1.98	0.46
21:i4:842:C:H2'	21:i4:843:C:O4'	2.16	0.46
21:i4:1241:A:O2'	21:i4:1266:C:O2'	2.32	0.46
21:i4:1454:A:C8	33:R4:3:ARG:HG3	2.51	0.46
31:P4:15:PHE:CE2	31:P4:17:TYR:HB2	2.50	0.46
33:R4:94:GLU:HA	33:R4:96:ILE:HG12	1.98	0.46
8:f5:87:THR:HB	8:f5:90:LYS:HE2	1.95	0.46
9:g5:248:LEU:N	9:g5:259:TRP:O	2.29	0.46
10:C5:267:GLN:C	10:C5:269:PHE:H	2.24	0.46
16:W5:106:THR:OG1	16:W5:111:MET:HE3	2.16	0.46
17:Y5:54:VAL:HB	17:Y5:76:TYR:HB2	1.98	0.46
21:i5:553:U:H2'	21:i5:554:A:C8	2.51	0.46
21:i5:938:A:H2'	21:i5:939:U:O4'	2.16	0.46
21:i5:1393:G:H2'	21:i5:1394:G:C8	2.51	0.46
24:D5:56:GLN:HA	24:D5:59:LEU:HD13	1.98	0.46
27:H5:58:LYS:O	27:H5:90:LYS:HD3	2.16	0.46
8:f6:130:VAL:HG13	21:i6:1310:U:C5'	2.21	0.46
9:g6:215:GLN:HA	9:g6:231:ASP:HA	1.98	0.46
10:C6:196:ILE:CG2	10:C6:223:TYR:HB2	2.46	0.46
12:J6:5:ARG:HD2	21:i6:38:A:H5''	1.97	0.46
14:N6:76:LYS:C	14:N6:79:GLY:H	2.23	0.46
15:O6:128:ARG:NH1	15:O6:130:GLU:HB2	2.31	0.46
17:Y6:9:THR:H	17:Y6:26:ASP:HB3	1.80	0.46
17:Y6:54:VAL:HB	17:Y6:76:TYR:HB2	1.98	0.46
21:i6:795:A:H62	27:H6:109:ARG:NH2	2.10	0.46
21:i6:1699:A:H8	21:i6:1699:A:O5'	1.99	0.46
21:i6:1700:C:O2	21:i6:1834:A:N6	2.47	0.46
21:i6:1807:C:H2'	21:i6:1808:U:C6	2.51	0.46
21:i6:1808:U:H2'	21:i6:1809:A:C8	2.50	0.46
21:i6:1852:C:C5	35:j6:5:TRP:CD1	3.04	0.46
21:i6:1869:A:N7	23:B6:112:SER:HA	2.31	0.46
24:D6:106:ARG:HB3	24:D6:175:VAL:HG12	1.97	0.46
25:E6:124:CYS:SG	25:E6:141:THR:HB	2.56	0.46
25:E6:176:ASP:OD1	25:E6:177:THR:N	2.41	0.46
36:k3:94:HIS:CB	36:k3:133:ALA:O	2.60	0.46
36:k4:93:PRO:O	36:k4:133:ALA:N	2.49	0.46
37:l1:142:LYS:CG	37:l1:146:ARG:HE	2.22	0.46
37:l1:170:PHE:N	37:l1:170:PHE:CD1	2.83	0.46
37:l2:128:VAL:CG2	37:l2:166:ILE:C	2.70	0.46
37:l3:128:VAL:CG1	37:l3:166:ILE:C	2.70	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l5:130:ARG:O	37:l5:131:VAL:HG22	2.15	0.46
37:l6:114:LYS:HE3	37:l6:114:LYS:HB3	1.41	0.46
3:V1:69:ILE:O	3:V1:73:ALA:N	2.38	0.46
11:G1:141:ILE:HG12	11:G1:144:LEU:CD1	2.46	0.46
15:O1:147:ARG:HD2	15:O1:150:ARG:NE	2.30	0.46
18:Z1:46:ASN:ND2	18:Z1:79:ILE:O	2.48	0.46
21:i1:545:A:O2'	21:i1:546:G:H8	1.98	0.46
21:i1:1044:G:O6	36:k1:20:SER:N	2.39	0.46
22:A1:211:GLU:HB2	33:R1:81:ARG:NH2	2.19	0.46
24:D1:106:ARG:HB3	24:D1:175:VAL:HG12	1.97	0.46
30:L1:27:GLU:HG3	23:B6:24:PRO:HD2	1.98	0.46
31:P1:50:ARG:HA	31:P1:50:ARG:HD3	1.73	0.46
33:R1:36:GLU:OE1	33:R1:36:GLU:N	2.43	0.46
9:g2:65:PHE:O	9:g2:83:TRP:HD1	1.98	0.46
10:C2:272:HIS:C	10:C2:274:VAL:N	2.74	0.46
11:G2:152:ASP:OD1	11:G2:155:GLN:HG2	2.16	0.46
13:M2:36:ARG:HH21	21:i2:1310:U:H6	1.59	0.46
15:O2:43:HIS:HA	15:O2:55:ARG:HA	1.97	0.46
21:i2:184:G:C2'	21:i2:185:G:H5'	2.46	0.46
21:i2:587:A:H1'	21:i2:589:G:N2	2.30	0.46
21:i2:1453:C:H42	21:i2:1475:G:H1	1.64	0.46
21:i2:1644:C:H2'	21:i2:1645:C:C6	2.51	0.46
21:i2:1807:C:H2'	21:i2:1808:U:C6	2.51	0.46
23:B2:224:GLU:CD	23:B2:226:GLY:H	2.24	0.46
24:D2:54:ARG:HB2	24:D2:58:VAL:HG13	1.98	0.46
24:D2:71:ALA:HB1	24:D2:75:LYS:HD2	1.97	0.46
24:D2:76:ARG:HH21	29:K2:66:HIS:CE1	2.34	0.46
25:E2:124:CYS:SG	25:E2:141:THR:HB	2.56	0.46
27:H2:65:PRO:HB2	27:H2:68:GLN:HE22	1.80	0.46
28:I2:80:ASP:OD1	28:I2:81:VAL:N	2.48	0.46
2:U3:61:LEU:HD22	7:d3:34:TYR:CZ	2.51	0.46
4:X3:67:ARG:NH2	21:i3:617:G:N7	2.53	0.46
7:d3:7:TYR:CE2	7:d3:9:SER:HB2	2.51	0.46
9:g3:125:ARG:HB2	9:g3:150:TRP:CG	2.51	0.46
10:C3:275:LYS:CE	10:C3:275:LYS:HA	2.46	0.46
15:O3:46:ASP:O	15:O3:49:GLY:N	2.39	0.46
18:Z3:57:LYS:HE2	18:Z3:77:LEU:HD11	1.98	0.46
21:i3:842:C:H2'	21:i3:843:C:O4'	2.16	0.46
21:i3:1036:A:H2'	21:i3:1037:G:H5'	1.98	0.46
21:i3:1860:A:O2'	21:i3:1861:G:OP2	2.27	0.46
25:E3:56:LEU:HD23	25:E3:57:THR:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E3:126:VAL:HG12	25:E3:139:LEU:HD13	1.98	0.46
27:H3:134:VAL:HG22	27:H3:173:PHE:CD2	2.51	0.46
30:L3:121:GLN:HG3	30:L3:153:LYS:HZ3	1.78	0.46
31:P3:41:GLN:OE1	31:P3:41:GLN:HA	2.16	0.46
33:R3:44:LYS:HG3	33:R3:47:ARG:NH2	2.28	0.46
9:g4:125:ARG:HB2	9:g4:150:TRP:CG	2.51	0.46
10:C4:188:CYS:SG	10:C4:191:VAL:HB	2.55	0.46
10:C4:196:ILE:CG2	10:C4:223:TYR:HB2	2.46	0.46
14:N4:149:LEU:CD2	14:N4:149:LEU:C	2.89	0.46
18:Z4:75:GLU:OE2	21:i5:193:C:H5'	2.16	0.46
21:i4:12:U:O2'	21:i4:1356:G:C1'	2.64	0.46
21:i4:380:G:OP1	28:I4:31:ARG:HD2	2.16	0.46
21:i4:482:G:N1	21:i4:485:A:OP2	2.45	0.46
21:i4:488:U:O2'	21:i4:489:A:OP1	2.34	0.46
21:i4:545:A:O2'	21:i4:546:G:H8	1.98	0.46
21:i4:693:A:N1	21:i4:738:C:O2	2.48	0.46
21:i4:1057:C:H6	21:i4:1059:G:H8	1.64	0.46
21:i4:1124:C:OP1	23:B4:150:ILE:HG13	2.15	0.46
21:i4:1818:A:O2'	35:j4:13:LEU:HD21	2.16	0.46
24:D4:76:ARG:HH21	29:K4:66:HIS:CE1	2.34	0.46
25:E4:71:LYS:HD3	25:E4:74:GLY:HA2	1.98	0.46
25:E4:125:LYS:HG2	25:E4:126:VAL:O	2.15	0.46
27:H4:96:ALA:HB3	27:H4:98:ARG:NH1	2.31	0.46
5:a5:47:ALA:O	5:a5:50:VAL:HG12	2.16	0.46
5:a5:92:ARG:HB3	21:i5:1865:C:O2	2.16	0.46
7:d5:7:TYR:CE2	7:d5:9:SER:HB2	2.51	0.46
9:g5:5:MET:HG3	9:g5:270:LEU:HD12	1.96	0.46
11:G5:36:VAL:N	11:G5:50:VAL:O	2.48	0.46
21:i5:455:A:O2'	21:i5:1735:A:H2'	2.16	0.46
21:i5:1050:A:H2	36:k5:16:GLN:OE1	1.98	0.46
21:i5:1414:A:N6	21:i5:1419:C:H41	2.14	0.46
21:i5:1465:A:OP1	33:R5:56:HIS:NE2	2.45	0.46
21:i5:1751:C:O2	21:i5:1784:G:C8	2.69	0.46
21:i5:1865:C:H5'	21:i5:1866:A:N7	2.31	0.46
22:A5:214:GLU:CB	33:R5:84:TYR:CE1	2.99	0.46
23:B5:33:VAL:HG13	23:B5:96:CYS:O	2.16	0.46
25:E5:56:LEU:HD23	25:E5:57:THR:HG23	1.97	0.46
25:E5:124:CYS:SG	25:E5:141:THR:HB	2.56	0.46
28:I5:80:ASP:OD1	28:I5:81:VAL:N	2.49	0.46
31:P5:115:TYR:CZ	31:P5:118:GLU:HB2	2.51	0.46
2:U6:61:LEU:HD22	7:d6:34:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V6:60:ARG:HH12	22:A6:158:ASP:HB3	1.81	0.46
4:X6:48:LYS:HZ2	21:i6:483:C:H5''	1.80	0.46
4:X6:52:LEU:HD22	4:X6:53:GLU:HG2	1.98	0.46
9:g6:11:LEU:H	9:g6:306:LEU:HD11	1.80	0.46
9:g6:220:ASP:OD1	9:g6:227:LEU:HG	2.16	0.46
11:G6:209:TYR:HA	11:G6:213:LEU:HB3	1.98	0.46
12:J6:37:LEU:HB3	12:J6:38:ARG:H	1.45	0.46
14:N6:3:ARG:HD3	21:i6:924:G:OP1	2.16	0.46
14:N6:150:VAL:CG1	14:N6:151:ALA:N	2.73	0.46
20:e6:25:LYS:HD3	21:i6:554:A:OP1	2.16	0.46
21:i6:380:G:H5''	28:I6:31:ARG:HH11	1.81	0.46
23:B6:224:GLU:CD	23:B6:226:GLY:H	2.24	0.46
24:D6:35:SER:HB2	24:D6:51:LEU:O	2.15	0.46
26:F6:137:GLN:HA	26:F6:203:ASN:CG	2.39	0.46
27:H6:96:ALA:HB3	27:H6:98:ARG:NH1	2.31	0.46
27:H6:98:ARG:O	27:H6:100:ILE:N	2.48	0.46
31:P6:15:PHE:CZ	31:P6:17:TYR:HB2	2.51	0.46
36:k1:94:HIS:ND1	36:k1:135:MET:HG3	2.30	0.46
36:k6:7:GLU:CD	36:k6:177:MET:HG3	2.22	0.46
37:l1:127:TYR:H	37:l1:168:GLY:HA2	1.80	0.46
37:l2:127:TYR:H	37:l2:168:GLY:HA2	1.80	0.46
5:a1:37:LYS:HG2	5:a1:72:HIS:CE1	2.51	0.45
9:g1:162:ASN:O	9:g1:164:ILE:N	2.45	0.45
10:C1:65:LYS:HZ1	10:C1:280:VAL:HB	1.79	0.45
10:C1:196:ILE:CG2	10:C1:223:TYR:HB2	2.46	0.45
11:G1:180:VAL:HG11	21:i1:142:C:O2	2.16	0.45
11:G1:209:TYR:HB3	11:G1:214:ALA:HB2	1.98	0.45
14:N1:39:LYS:HA	14:N1:42:LYS:HZ3	1.81	0.45
21:i1:1021:U:H4'	21:i1:1022:U:O4'	2.16	0.45
21:i1:1393:G:H2'	21:i1:1394:G:C8	2.51	0.45
21:i1:1414:A:N6	21:i1:1429:G:H1	2.14	0.45
21:i1:1693:G:O2'	21:i1:1834:A:H4'	2.16	0.45
25:E1:126:VAL:HG12	25:E1:139:LEU:HD13	1.98	0.45
25:E1:141:THR:OG1	25:E1:145:ARG:N	2.49	0.45
27:H1:58:LYS:O	27:H1:90:LYS:HD3	2.16	0.45
27:H1:121:THR:HG22	27:H1:123:THR:H	1.81	0.45
2:U2:61:LEU:HD22	7:d2:34:TYR:CZ	2.51	0.45
5:a2:37:LYS:HG2	5:a2:72:HIS:CE1	2.51	0.45
5:a2:101:PHE:C	5:a2:102:ARG:CD	2.89	0.45
8:f2:87:THR:CB	8:f2:90:LYS:CE	2.85	0.45
9:g2:125:ARG:HB2	9:g2:150:TRP:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G2:209:TYR:HD1	11:G2:213:LEU:HD23	1.79	0.45
16:W2:106:THR:OG1	16:W2:111:MET:HE3	2.16	0.45
17:Y2:109:GLU:HG3	17:Y2:113:ARG:NH2	2.31	0.45
21:i2:1610:G:OP2	34:S2:132:ARG:NE	2.46	0.45
21:i2:1708:C:H1'	37:I2:153:SER:HB2	1.97	0.45
21:i2:1812:U:H2'	21:i2:1813:A:H5''	1.97	0.45
25:E2:95:THR:OG1	25:E2:97:GLU:OE1	2.25	0.45
25:E2:125:LYS:HG2	25:E2:126:VAL:O	2.15	0.45
28:I2:81:VAL:HG22	28:I2:102:VAL:HG12	1.98	0.45
35:j2:24:SER:O	35:j2:24:SER:OG	2.31	0.45
4:X3:107:ARG:HD3	4:X3:112:VAL:HB	1.97	0.45
9:g3:230:LEU:HB3	9:g3:259:TRP:HZ3	1.81	0.45
10:C3:267:GLN:C	10:C3:269:PHE:H	2.24	0.45
18:Z3:49:LEU:H	18:Z3:83:LEU:HD12	1.81	0.45
21:i3:1236:G:C4'	31:P3:133:ILE:HB	2.46	0.45
21:i3:1520:G:H5'	34:S3:136:THR:OG1	2.15	0.45
21:i3:1644:C:H2'	21:i3:1645:C:C6	2.51	0.45
24:D3:56:GLN:HA	24:D3:59:LEU:HD13	1.98	0.45
28:I3:81:VAL:HG22	28:I3:102:VAL:HG12	1.98	0.45
31:P3:123:TYR:C	31:P3:123:TYR:HD1	2.22	0.45
1:T4:133:ARG:NH2	21:i4:1420:G:H5'	2.31	0.45
8:f4:80:ARG:NH2	21:i4:1503:C:H1'	2.31	0.45
8:f4:95:ARG:HD2	21:i4:1289:U:H5''	1.76	0.45
9:g4:155:ARG:HB2	9:g4:199:THR:HA	1.98	0.45
9:g4:170:TRP:HB3	9:g4:194:TYR:HB2	1.98	0.45
21:i4:146:G:O6	21:i4:147:A:N6	2.49	0.45
21:i4:1021:U:H4'	21:i4:1022:U:O4'	2.16	0.45
21:i4:1393:G:H2'	21:i4:1394:G:C8	2.51	0.45
21:i4:1865:C:H5'	21:i4:1866:A:N7	2.31	0.45
25:E4:124:CYS:SG	25:E4:141:THR:HB	2.56	0.45
27:H4:65:PRO:HB2	27:H4:68:GLN:HE22	1.80	0.45
30:L4:5:GLN:O	30:L4:7:GLU:N	2.46	0.45
2:U5:61:LEU:HD22	7:d5:34:TYR:CZ	2.51	0.45
4:X5:91:LEU:O	4:X5:94:ILE:HG22	2.16	0.45
7:d5:12:ARG:O	7:d5:18:SER:OG	2.30	0.45
11:G5:209:TYR:HD1	11:G5:213:LEU:HD23	1.79	0.45
12:J5:5:ARG:HD2	21:i5:38:A:H5''	1.97	0.45
21:i5:367:U:OP1	28:I5:11:ARG:NH2	2.49	0.45
21:i5:509:G:H2'	21:i5:510:G:C8	2.51	0.45
21:i5:555:A:H8	21:i5:556:U:H4'	1.80	0.45
21:i5:1277:C:H3'	21:i5:1278:A:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1414:A:N6	21:i5:1429:G:H1	2.15	0.45
21:i5:1421:A:H62	21:i5:1422:G:N2	2.15	0.45
21:i5:1780:G:C5	21:i5:1781:A:H8	2.34	0.45
21:i5:1852:C:H2'	21:i5:1853:C:C6	2.50	0.45
22:A5:210:ILE:CG1	22:A5:211:GLU:N	2.74	0.45
25:E5:125:LYS:HG2	25:E5:126:VAL:O	2.16	0.45
26:F5:88:MET:HB2	26:F5:91:ARG:NH2	2.30	0.45
29:K5:96:ARG:O	29:K5:98:ARG:HG2	2.17	0.45
2:U6:59:LYS:HG2	24:D6:8:LYS:HZ2	1.81	0.45
9:g6:14:HIS:CD2	9:g6:41:ILE:HG13	2.50	0.45
9:g6:250:ALA:HB3	9:g6:257:LYS:HB3	1.97	0.45
11:G6:152:ASP:OD1	11:G6:155:GLN:HG2	2.16	0.45
12:J6:143:ASN:HB3	21:i6:823:U:H5	1.80	0.45
14:N6:38:TYR:OH	14:N6:74:ILE:HG12	2.15	0.45
18:Z6:86:ALA:HB1	34:S6:3:LEU:HG	1.98	0.45
21:i6:1511:U:O2'	21:i6:1512:C:O5'	2.32	0.45
21:i6:1537:A:H2	21:i6:1597:C:N3	2.14	0.45
21:i6:1640:A:H2'	21:i6:1641:A:O4'	2.15	0.45
21:i6:1751:C:N4	21:i6:1783:C:H1'	2.31	0.45
25:E6:82:TYR:CD1	25:E6:83:PRO:HD2	2.51	0.45
27:H6:65:PRO:HB2	27:H6:68:GLN:HE22	1.81	0.45
29:K6:96:ARG:O	29:K6:98:ARG:HG2	2.16	0.45
33:R6:44:LYS:HG3	33:R6:47:ARG:NH2	2.28	0.45
33:R6:71:ILE:HG12	33:R6:71:ILE:O	2.16	0.45
37:l1:120:ILE:O	37:l1:127:TYR:HA	2.17	0.45
37:l5:120:ILE:HG23	37:l5:121:PRO:HD2	1.98	0.45
4:X1:52:LEU:HD22	4:X1:53:GLU:HG2	1.98	0.45
7:d1:9:SER:C	21:i1:1513:C:H5'	2.41	0.45
7:d1:30:LEU:HA	7:d1:39:CYS:HA	1.97	0.45
12:J1:50:LEU:HD13	12:J1:102:ILE:HD13	1.98	0.45
14:N1:3:ARG:HD3	21:i1:924:G:OP1	2.16	0.45
21:i1:98:C:H42	21:i1:432:G:H1	1.63	0.45
21:i1:209:A:C6	21:i1:210:U:H1'	2.51	0.45
21:i1:980:A:O2'	21:i1:981:A:OP1	2.27	0.45
21:i1:1057:C:H6	21:i1:1059:G:H8	1.64	0.45
21:i1:1069:U:O4'	36:k1:16:GLN:HB3	2.16	0.45
21:i1:1113:A:H3'	21:i1:1114:U:H5'	1.97	0.45
21:i1:1124:C:OP1	23:B1:150:ILE:HG13	2.15	0.45
21:i1:1382:A:H2'	21:i1:1383:A:H5'	1.98	0.45
21:i1:1414:A:N6	21:i1:1419:C:H41	2.14	0.45
21:i1:1453:C:H42	21:i1:1475:G:H1	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1831:A:H2'	21:i1:1832:A:H8	1.79	0.45
21:i1:1869:A:N7	23:B1:112:SER:HA	2.31	0.45
24:D1:35:SER:HB2	24:D1:51:LEU:O	2.16	0.45
26:F1:118:ASN:ND2	26:F1:183:GLY:HA3	2.32	0.45
27:H1:96:ALA:HB3	27:H1:98:ARG:NH1	2.31	0.45
27:H1:134:VAL:HG22	27:H1:173:PHE:CD2	2.51	0.45
28:I1:8:TRP:CZ3	28:I1:20:PRO:HB3	2.51	0.45
11:G2:141:ILE:HG12	11:G2:144:LEU:CD1	2.46	0.45
15:O2:14:VAL:N	15:O2:15:ILE:HA	2.25	0.45
17:Y2:54:VAL:HB	17:Y2:76:TYR:HB2	1.98	0.45
21:i2:842:C:H2'	21:i2:843:C:O4'	2.16	0.45
21:i2:883:U:H2'	21:i2:884:C:C6	2.51	0.45
21:i2:1255:G:H5'	21:i2:1256:G:H4'	1.99	0.45
21:i2:1454:A:C8	33:R2:3:ARG:HG3	2.51	0.45
21:i2:1755:C:O2'	21:i2:1777:G:N2	2.48	0.45
23:B2:33:VAL:HG13	23:B2:96:CYS:O	2.16	0.45
25:E2:126:VAL:HG12	25:E2:139:LEU:HD13	1.99	0.45
27:H2:58:LYS:O	27:H2:90:LYS:HD3	2.16	0.45
1:T3:28:LEU:HD13	1:T3:54:TYR:CD2	2.50	0.45
1:T3:34:VAL:HG23	1:T3:35:ASP:H	1.81	0.45
10:C3:267:GLN:C	10:C3:269:PHE:N	2.74	0.45
11:G3:141:ILE:HG12	11:G3:144:LEU:CD1	2.46	0.45
11:G3:186:GLN:NE2	21:i3:332:G:O6	2.49	0.45
21:i3:338:G:O2'	21:i3:339:A:H5'	2.17	0.45
21:i3:523:A:C2	21:i3:524:U:C1'	2.99	0.45
21:i3:1204:A:HO2'	21:i3:1700:C:P	2.33	0.45
21:i3:1206:G:N3	21:i3:1834:A:H1'	2.32	0.45
21:i3:1812:U:H2'	21:i3:1813:A:H5''	1.97	0.45
21:i3:1865:C:H5'	21:i3:1866:A:N7	2.31	0.45
22:A3:9:GLN:O	22:A3:11:LYS:HG2	2.16	0.45
25:E3:82:TYR:CD1	25:E3:83:PRO:HD2	2.51	0.45
28:I3:80:ASP:OD1	28:I3:81:VAL:N	2.48	0.45
31:P3:119:PHE:CD1	34:S3:119:ALA:CA	2.99	0.45
2:U4:77:TRP:HD1	32:Q4:132:PHE:HB2	1.80	0.45
3:V4:50:PHE:HZ	10:C4:267:GLN:HE22	1.60	0.45
5:a4:47:ALA:O	5:a4:50:VAL:HG12	2.16	0.45
6:c4:23:SER:OG	6:c4:24:GLN:N	2.44	0.45
7:d4:7:TYR:CE2	7:d4:9:SER:HB2	2.51	0.45
11:G4:167:LYS:HB3	11:G4:168:LYS:H	1.51	0.45
11:G4:180:VAL:HG11	21:i4:142:C:O2	2.16	0.45
15:O4:71:PRO:O	15:O4:75:MET:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W4:106:THR:OG1	16:W4:111:MET:HE3	2.16	0.45
21:i4:93:U:H2'	21:i4:94:G:O4'	2.16	0.45
21:i4:98:C:H42	21:i4:432:G:H1	1.63	0.45
21:i4:558:G:H2'	21:i4:559:G:C8	2.51	0.45
21:i4:1414:A:N6	21:i4:1429:G:H1	2.15	0.45
21:i4:1817:G:O2'	35:j4:20:MET:HE1	2.15	0.45
23:B4:33:VAL:HG13	23:B4:96:CYS:O	2.16	0.45
25:E4:126:VAL:HG12	25:E4:139:LEU:HD13	1.98	0.45
25:E4:141:THR:OG1	25:E4:145:ARG:N	2.49	0.45
27:H4:135:PHE:HB3	27:H4:136:PRO:HD3	1.98	0.45
33:R4:80:ARG:C	33:R4:82:ASP:H	2.23	0.45
35:j4:13:LEU:HD22	35:j4:13:LEU:O	2.16	0.45
2:U5:81:GLN:HG2	7:d5:55:LEU:HD12	1.98	0.45
10:C5:272:HIS:O	10:C5:274:VAL:N	2.42	0.45
13:M5:111:VAL:HG12	13:M5:114:TYR:CE1	2.50	0.45
15:O5:17:LEU:CD2	15:O5:18:GLY:H	2.22	0.45
15:O5:43:HIS:HA	15:O5:55:ARG:HA	1.97	0.45
21:i5:93:U:H2'	21:i5:94:G:O4'	2.17	0.45
21:i5:1192:U:H2'	21:i5:1193:U:C6	2.52	0.45
21:i5:1453:C:H42	21:i5:1475:G:H1	1.64	0.45
24:D5:138:VAL:HB	24:D5:150:MET:HB3	1.97	0.45
26:F5:118:ASN:ND2	26:F5:183:GLY:HA3	2.32	0.45
27:H5:98:ARG:O	27:H5:100:ILE:N	2.48	0.45
33:R5:22:THR:CG2	33:R5:72:LYS:HZ1	2.22	0.45
34:S5:50:ILE:HD12	34:S5:67:VAL:HG23	1.83	0.45
35:j5:13:LEU:HD22	35:j5:13:LEU:O	2.16	0.45
3:V6:35:ASN:HB3	3:V6:50:PHE:CD1	2.52	0.45
3:V6:70:LEU:HD21	22:A6:57:LYS:HD3	1.97	0.45
10:C6:191:VAL:HA	10:C6:228:GLY:HA3	1.98	0.45
11:G6:164:LYS:HD2	11:G6:167:LYS:HB2	1.97	0.45
21:i6:50:A:H62	21:i6:477:G:H21	1.63	0.45
21:i6:842:C:H2'	21:i6:843:C:O4'	2.16	0.45
21:i6:1414:A:N6	21:i6:1429:G:H1	2.15	0.45
21:i6:1454:A:C8	33:R6:3:ARG:HG3	2.51	0.45
22:A6:9:GLN:O	22:A6:11:LYS:HG2	2.15	0.45
24:D6:76:ARG:HH21	29:K6:66:HIS:CE1	2.34	0.45
26:F6:182:LYS:O	26:F6:184:SER:N	2.40	0.45
30:L6:57:ASP:OD1	30:L6:58:LYS:N	2.48	0.45
31:P6:57:LEU:HD23	31:P6:61:ARG:NH2	2.30	0.45
36:k5:169:TYR:CE1	36:k5:172:ASP:HB3	2.51	0.45
37:l3:120:ILE:HG23	37:l3:121:PRO:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:I3:185:VAL:HA	37:I3:186:ASP:HA	1.51	0.45
3:V1:60:ARG:HH12	22:A1:158:ASP:HB3	1.81	0.45
21:I1:146:G:O6	21:I1:147:A:N6	2.49	0.45
21:I1:529:A:H2	21:I1:557:U:C1'	2.17	0.45
21:I1:1349:G:H1	21:I1:1380:C:H42	1.64	0.45
21:I1:1406:G:H22	21:I1:1441:U:H3	1.62	0.45
21:I1:1511:U:O2'	21:I1:1512:C:O5'	2.32	0.45
21:I1:1614:A:H62	31:P1:40:ARG:NH1	2.15	0.45
24:D1:35:SER:H	24:D1:52:ALA:HA	1.81	0.45
24:D1:76:ARG:HH21	29:K1:66:HIS:CE1	2.34	0.45
31:P1:44:ARG:HH11	31:P1:44:ARG:CG	2.26	0.45
2:U2:77:TRP:HD1	32:Q2:132:PHE:HB2	1.80	0.45
8:F2:105:TYR:CE2	8:F2:131:PHE:CD2	2.97	0.45
9:G2:170:TRP:HB3	9:G2:194:TYR:HB2	1.98	0.45
9:G2:185:LYS:O	24:D2:227:LYS:N	2.22	0.45
10:C2:65:LYS:HZ2	10:C2:280:VAL:HB	1.80	0.45
10:C2:188:CYS:SG	10:C2:191:VAL:HB	2.55	0.45
10:C2:267:GLN:C	10:C2:269:PHE:N	2.74	0.45
21:I2:317:C:H2'	21:I2:318:A:C8	2.52	0.45
21:I2:733:C:C6	27:H2:149:ASP:O	2.70	0.45
21:I2:1183:A:OP1	35:J2:11:ARG:CG	2.65	0.45
21:I2:1865:C:H5'	21:I2:1866:A:N7	2.31	0.45
24:D2:35:SER:HB2	24:D2:51:LEU:O	2.15	0.45
24:D2:167:TYR:OH	24:D2:201:LYS:O	2.30	0.45
25:E2:82:TYR:CD1	25:E2:83:PRO:HD2	2.51	0.45
26:F2:186:ASN:HA	28:I4:141:ARG:HH22	1.81	0.45
28:I2:8:TRP:CZ3	28:I2:20:PRO:HB3	2.51	0.45
30:L2:126:VAL:CG2	30:L2:145:VAL:HG22	2.46	0.45
31:P2:15:PHE:CZ	31:P2:17:TYR:HB2	2.51	0.45
31:P2:108:LYS:HB3	31:P2:109:PRO:CD	2.40	0.45
14:N3:91:LEU:HD11	14:N3:121:ARG:HD2	1.98	0.45
15:O3:14:VAL:N	15:O3:15:ILE:HA	2.25	0.45
15:O3:71:PRO:O	15:O3:75:MET:HG3	2.17	0.45
15:O3:128:ARG:NH1	15:O3:130:GLU:HB2	2.31	0.45
18:Z3:92:LEU:HA	18:Z3:97:ILE:HB	1.99	0.45
21:I3:545:A:O2'	21:I3:546:G:H8	1.99	0.45
21:I3:883:U:H2'	21:I3:884:C:C6	2.51	0.45
21:I3:938:A:H2'	21:I3:939:U:O4'	2.16	0.45
21:I3:1068:G:H5'	36:k3:15:ILE:CG2	2.46	0.45
21:I3:1096:G:H2'	21:I3:1097:G:H8	1.81	0.45
24:D3:76:ARG:HD3	29:K3:22:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I3:8:TRP:CZ3	28:I3:20:PRO:HB3	2.51	0.45
29:K3:58:VAL:CG2	29:K3:69:TRP:HB3	2.46	0.45
30:L3:135:SER:HB3	30:L3:138:VAL:HB	1.97	0.45
1:T4:2:PRO:HA	1:T4:3:GLY:HA3	1.70	0.45
5:a4:2:THR:OG1	21:i4:1199:A:OP1	2.19	0.45
7:d4:9:SER:C	21:i4:1513:C:H5'	2.41	0.45
16:W4:27:ILE:HG12	16:W4:61:ILE:HB	1.98	0.45
21:i4:1103:C:N3	21:i4:1130:G:N2	2.64	0.45
21:i4:1208:A:O2'	21:i4:1835:A:N7	2.37	0.45
21:i4:1382:A:H2'	21:i4:1383:A:H5'	1.98	0.45
21:i4:1453:C:H42	21:i4:1475:G:H1	1.64	0.45
24:D4:53:THR:HG23	24:D4:90:LYS:HE3	1.98	0.45
24:D4:56:GLN:HA	24:D4:59:LEU:HD13	1.98	0.45
24:D4:76:ARG:HD3	29:K4:22:VAL:HB	1.98	0.45
5:a5:100:ARG:C	5:a5:102:ARG:N	2.74	0.45
8:f5:82:LYS:H	8:f5:82:LYS:HG2	1.56	0.45
9:g5:109:LEU:HB3	9:g5:110:SER:H	1.50	0.45
9:g5:170:TRP:HB3	9:g5:194:TYR:HB2	1.98	0.45
9:g5:215:GLN:HA	9:g5:231:ASP:HA	1.97	0.45
9:g5:220:ASP:OD1	9:g5:227:LEU:HG	2.16	0.45
12:J5:50:LEU:HD13	12:J5:102:ILE:HD13	1.97	0.45
15:O5:128:ARG:NH1	15:O5:130:GLU:HB2	2.31	0.45
20:e5:45:VAL:HG22	21:i5:535:G:C1'	2.46	0.45
21:i5:535:G:H2'	21:i5:535:G:N3	2.31	0.45
21:i5:1349:G:H1	21:i5:1380:C:H42	1.63	0.45
22:A5:89:LYS:NZ	33:R5:82:ASP:OD2	2.23	0.45
24:D5:35:SER:HB2	24:D5:51:LEU:O	2.16	0.45
25:E5:19:MET:HE1	25:E5:108:ARG:HH11	1.82	0.45
27:H5:68:GLN:O	27:H5:71:SER:OG	2.26	0.45
30:L5:57:ASP:OD1	30:L5:58:LYS:N	2.49	0.45
34:S5:17:ASN:HD22	34:S5:101:ASN:ND2	2.10	0.45
35:j5:5:TRP:CE3	35:j5:5:TRP:CA	3.00	0.45
1:T6:133:ARG:NH2	21:i6:1420:G:H5'	2.31	0.45
4:X6:91:LEU:O	4:X6:94:ILE:HG22	2.16	0.45
4:X6:107:ARG:HD3	4:X6:112:VAL:HB	1.97	0.45
7:d6:7:TYR:CE2	7:d6:9:SER:HB2	2.51	0.45
11:G6:143:LYS:CD	21:i6:1778:C:C5'	2.81	0.45
16:W6:10:ALA:O	16:W6:13:SER:OG	2.24	0.45
16:W6:124:LYS:NZ	21:i6:863:U:O2	2.39	0.45
21:i6:146:G:O6	21:i6:147:A:N6	2.49	0.45
21:i6:938:A:H2'	21:i6:939:U:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1036:A:H2'	21:i6:1037:G:H5'	1.99	0.45
21:i6:1565:C:H2'	21:i6:1566:G:O4'	2.17	0.45
21:i6:1865:C:H5'	21:i6:1866:A:N7	2.31	0.45
23:B6:33:VAL:HG13	23:B6:96:CYS:O	2.16	0.45
26:F6:88:MET:HB2	26:F6:91:ARG:NH2	2.30	0.45
27:H6:58:LYS:O	27:H6:90:LYS:HD3	2.16	0.45
34:S6:50:ILE:CD1	34:S6:67:VAL:HG21	2.44	0.45
35:j6:13:LEU:HD22	35:j6:13:LEU:O	2.16	0.45
36:k1:36:ILE:HG13	36:k1:91:ILE:HG21	1.98	0.45
36:k1:96:GLN:HE22	36:k1:122:LYS:HD3	1.78	0.45
36:k2:39:TRP:CE2	36:k2:90:PHE:CZ	3.03	0.45
36:k4:145:VAL:CG1	36:k4:167:ILE:HG21	2.47	0.45
36:k4:170:LEU:HD12	36:k4:175:TRP:CZ3	2.51	0.45
37:l5:118:ALA:O	37:l5:119:LYS:HB3	2.16	0.45
37:l6:118:ALA:O	37:l6:119:LYS:HB3	2.16	0.45
9:g1:65:PHE:O	9:g1:83:TRP:HD1	1.98	0.45
15:O1:99:ALA:O	15:O1:101:GLY:N	2.48	0.45
16:W1:27:ILE:HG12	16:W1:61:ILE:HB	1.98	0.45
16:W1:33:VAL:HG13	16:W1:34:ILE:HG23	1.98	0.45
21:i1:689:U:C4	27:H1:122:LEU:HD11	2.40	0.45
21:i1:1210:G:H22	21:i1:1690:U:C1'	2.28	0.45
21:i1:1537:A:H2	21:i1:1597:C:N3	2.14	0.45
27:H1:135:PHE:HB3	27:H1:136:PRO:HD3	1.99	0.45
31:P1:12:PHE:HE2	21:i3:1764:G:O5'	1.99	0.45
31:P1:15:PHE:CZ	31:P1:17:TYR:HB2	2.51	0.45
31:P1:49:LEU:HD23	31:P1:49:LEU:HA	1.80	0.45
4:X2:48:LYS:HZ3	21:i2:483:C:H5''	1.81	0.45
5:a2:6:ARG:HH21	21:i2:1134:G:P	2.39	0.45
11:G2:209:TYR:HB3	11:G2:214:ALA:HB2	1.98	0.45
12:J2:163:SER:H	12:J2:167:GLY:HA3	1.81	0.45
15:O2:147:ARG:HD2	15:O2:150:ARG:NE	2.30	0.45
18:Z2:57:LYS:HE2	18:Z2:77:LEU:HD11	1.98	0.45
21:i2:488:U:O2'	21:i2:489:A:OP1	2.33	0.45
21:i2:688:U:C6	27:H2:122:LEU:CD1	3.00	0.45
25:E2:132:GLY:N	25:E2:136:ILE:O	2.47	0.45
31:P2:119:PHE:CD1	34:S2:119:ALA:CA	2.99	0.45
1:T3:27:LYS:HG3	1:T3:29:LYS:HG2	1.99	0.45
5:a3:37:LYS:HG2	5:a3:72:HIS:CE1	2.51	0.45
5:a3:42:ARG:HB2	5:a3:67:LEU:HD11	1.98	0.45
7:d3:9:SER:C	21:i3:1513:C:H5'	2.41	0.45
9:g3:178:ASN:OD1	9:g3:183:LYS:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:149:LEU:C	14:N3:149:LEU:CD2	2.89	0.45
16:W3:27:ILE:HG12	16:W3:61:ILE:HB	1.98	0.45
16:W3:33:VAL:HG13	16:W3:34:ILE:HG23	1.98	0.45
21:i3:188:C:H5''	21:i3:188:C:H6	1.81	0.45
21:i3:317:C:H6	21:i3:317:C:O5'	1.98	0.45
21:i3:380:G:P	28:I3:56:ARG:HH22	2.39	0.45
24:D3:64:ARG:HG3	29:K3:95:ARG:HH22	1.76	0.45
5:a4:100:ARG:C	5:a4:102:ARG:N	2.73	0.45
7:d4:11:PRO:HB3	7:d4:13:LYS:HZ3	1.81	0.45
20:e4:45:VAL:CB	21:i4:535:G:H5'	2.46	0.45
21:i4:556:U:O3'	21:i4:557:U:H5	1.99	0.45
21:i4:1005:G:OP1	23:B4:162:ARG:NH1	2.50	0.45
21:i4:1037:G:N1	21:i4:1078:C:O2	2.50	0.45
21:i4:1220:A:N3	21:i4:1677:U:O2'	2.40	0.45
21:i4:1414:A:N6	21:i4:1419:C:H41	2.14	0.45
21:i4:1421:A:H62	21:i4:1422:G:N2	2.15	0.45
21:i4:1537:A:H2	21:i4:1597:C:N3	2.14	0.45
21:i4:1718:G:P	35:j4:21:ARG:HH11	2.39	0.45
21:i4:1807:C:H2'	21:i4:1808:U:C6	2.51	0.45
25:E4:132:GLY:N	25:E4:136:ILE:O	2.47	0.45
26:F4:104:THR:OG1	26:F4:178:ILE:HD12	2.16	0.45
27:H4:121:THR:HG22	27:H4:123:THR:H	1.81	0.45
31:P4:121:ILE:HD11	31:P4:123:TYR:HE2	0.59	0.45
5:a5:89:ARG:HA	5:a5:92:ARG:NH1	2.32	0.45
7:d5:9:SER:C	21:i5:1513:C:H5'	2.41	0.45
8:f5:92:LYS:O	21:i5:1304:U:O4'	2.30	0.45
8:f5:105:TYR:OH	8:f5:131:PHE:CD2	2.59	0.45
14:N5:122:ILE:O	14:N5:126:ALA:N	2.33	0.45
15:O5:71:PRO:O	15:O5:75:MET:HG3	2.16	0.45
16:W5:76:SER:HB3	21:i5:1159:G:P	2.56	0.45
18:Z5:85:ARG:NH2	18:Z5:85:ARG:CG	2.73	0.45
18:Z5:86:ALA:HB1	34:S5:3:LEU:HG	1.98	0.45
20:e5:33:LYS:HD3	20:e5:33:LYS:HA	1.51	0.45
21:i5:146:G:O6	21:i5:147:A:N6	2.49	0.45
21:i5:842:C:H2'	21:i5:843:C:O4'	2.16	0.45
24:D5:43:PRO:O	24:D5:44:THR:OG1	2.32	0.45
28:I5:193:LYS:O	28:I5:196:GLU:HG2	2.17	0.45
31:P5:45:LEU:CD1	31:P5:49:LEU:CD2	2.72	0.45
33:R5:57:LEU:O	33:R5:61:ILE:CG1	2.57	0.45
3:V6:50:PHE:HZ	10:C6:267:GLN:HE22	1.59	0.45
5:a6:37:LYS:HG2	5:a6:72:HIS:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a6:92:ARG:HB3	21:i6:1865:C:O2	2.16	0.45
9:g6:125:ARG:HB2	9:g6:150:TRP:CG	2.51	0.45
9:g6:230:LEU:HB3	9:g6:259:TRP:HZ3	1.81	0.45
10:C6:65:LYS:HG2	10:C6:279:ARG:HE	1.77	0.45
10:C6:115:GLN:HG3	21:i6:1203:G:H1'	1.99	0.45
11:G6:141:ILE:HG12	11:G6:144:LEU:CD1	2.46	0.45
16:W6:27:ILE:HG12	16:W6:61:ILE:HB	1.99	0.45
21:i6:209:A:C6	21:i6:210:U:H1'	2.51	0.45
21:i6:735:C:H3'	21:i6:735:C:C6	2.50	0.45
21:i6:1096:G:H2'	21:i6:1097:G:H8	1.82	0.45
21:i6:1201:U:O4'	21:i6:1357:A:C2	2.69	0.45
24:D6:121:GLY:O	24:D6:125:PHE:N	2.41	0.45
25:E6:19:MET:HE1	25:E6:108:ARG:HH11	1.82	0.45
26:F6:118:ASN:ND2	26:F6:183:GLY:HA3	2.32	0.45
27:H6:121:THR:HG22	27:H6:123:THR:H	1.81	0.45
29:K6:58:VAL:CG2	29:K6:69:TRP:HB3	2.45	0.45
33:R6:71:ILE:C	33:R6:71:ILE:CD1	2.86	0.45
36:k1:2:PHE:HB3	36:k1:174:LEU:HB2	1.98	0.45
36:k6:82:LEU:HD11	36:k6:169:TYR:HA	1.99	0.45
37:l6:120:ILE:O	37:l6:127:TYR:HA	2.17	0.45
4:X1:51:VAL:HG21	4:X1:94:ILE:HD11	1.99	0.45
4:X1:107:ARG:HD3	4:X1:112:VAL:HB	1.97	0.45
5:a1:101:PHE:C	5:a1:102:ARG:CD	2.89	0.45
7:d1:6:LEU:HA	7:d1:7:TYR:HA	1.76	0.45
9:g1:155:ARG:HB2	9:g1:199:THR:HA	1.98	0.45
10:C1:275:LYS:CE	10:C1:275:LYS:HA	2.46	0.45
18:Z1:57:LYS:HE2	18:Z1:77:LEU:HD11	1.99	0.45
18:Z1:111:ARG:C	18:Z1:113:THR:N	2.73	0.45
19:b1:37:CYS:CB	19:b1:63:LEU:CD2	2.81	0.45
21:i1:628:A:H2	21:i1:1500:G:HO2'	1.61	0.45
21:i1:872:A:O2'	21:i1:873:G:OP2	2.33	0.45
22:A1:22:GLY:O	22:A1:24:HIS:N	2.46	0.45
24:D1:95:GLY:O	24:D1:97:CYS:N	2.48	0.45
26:F1:39:ILE:HG23	26:F1:68:ILE:HG21	1.99	0.45
26:F1:133:THR:HG21	26:F1:135:ARG:NE	2.32	0.45
27:H1:65:PRO:HB2	27:H1:68:GLN:HE22	1.80	0.45
28:I1:81:VAL:HG22	28:I1:102:VAL:HG12	1.98	0.45
33:R1:94:GLU:HA	33:R1:96:ILE:HG12	1.97	0.45
3:V2:35:ASN:HB3	3:V2:50:PHE:CD1	2.52	0.45
7:d2:9:SER:C	21:i2:1513:C:H5'	2.41	0.45
11:G2:66:GLY:CA	21:i2:1745:A:H8	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O2:71:PRO:O	15:O2:75:MET:HG3	2.17	0.45
16:W2:77:PRO:HG2	16:W2:79:PHE:CZ	2.52	0.45
21:i2:209:A:C6	21:i2:210:U:H1'	2.51	0.45
21:i2:968:U:OP2	28:I4:203:LYS:HD3	2.17	0.45
21:i2:1103:C:N3	21:i2:1130:G:N2	2.64	0.45
21:i2:1192:U:H2'	21:i2:1193:U:C6	2.52	0.45
21:i2:1421:A:H62	21:i2:1422:G:N2	2.15	0.45
21:i2:1465:A:OP1	33:R2:56:HIS:NE2	2.45	0.45
21:i2:1546:G:H21	21:i2:1669:G:N2	2.15	0.45
21:i2:1808:U:H2'	21:i2:1809:A:C8	2.51	0.45
22:A2:211:GLU:HB2	33:R2:81:ARG:NH2	2.19	0.45
27:H2:6:ALA:O	27:H2:24:SER:OG	2.26	0.45
27:H2:96:ALA:HB3	27:H2:98:ARG:NH1	2.31	0.45
27:H2:135:PHE:HB3	27:H2:136:PRO:HD3	1.98	0.45
28:I2:123:ARG:CZ	15:O5:64:ALA:C	2.90	0.45
28:I2:125:LYS:HD3	15:O5:66:ARG:HD2	1.99	0.45
1:T3:133:ARG:NH2	21:i3:1420:G:H5'	2.32	0.45
7:d3:16:GLN:NE2	7:d3:27:ARG:O	2.35	0.45
12:J3:163:SER:H	12:J3:167:GLY:HA3	1.81	0.45
14:N3:129:TYR:HB3	14:N3:134:VAL:HG21	0.46	0.45
18:Z3:111:ARG:O	18:Z3:113:THR:N	2.50	0.45
23:B3:33:VAL:HG13	23:B3:96:CYS:O	2.16	0.45
24:D3:95:GLY:O	24:D3:97:CYS:N	2.48	0.45
26:F3:106:GLU:HG2	26:F3:107:ASN:N	2.29	0.45
27:H3:6:ALA:O	27:H3:24:SER:OG	2.26	0.45
4:X4:52:LEU:HD22	4:X4:53:GLU:HG2	1.98	0.45
4:X4:90:CYS:HB3	4:X4:130:LEU:HD11	1.98	0.45
5:a4:37:LYS:HG2	5:a4:72:HIS:CE1	2.51	0.45
9:g4:220:ASP:OD1	9:g4:227:LEU:HG	2.16	0.45
10:C4:207:ALA:O	10:C4:210:PRO:HD2	2.17	0.45
11:G4:152:ASP:OD1	11:G4:155:GLN:HG2	2.16	0.45
11:G4:209:TYR:HA	11:G4:213:LEU:HB3	1.99	0.45
14:N4:43:LYS:HG2	14:N4:43:LYS:H	1.48	0.45
21:i4:71:G:H3'	21:i4:72:C:H5''	1.97	0.45
21:i4:509:G:H2'	21:i4:510:G:C8	2.51	0.45
21:i4:938:A:H2'	21:i4:939:U:O4'	2.16	0.45
21:i4:1113:A:H3'	21:i4:1114:U:H5'	1.97	0.45
21:i4:1192:U:H2'	21:i4:1193:U:C6	2.52	0.45
22:A4:22:GLY:O	22:A4:24:HIS:N	2.46	0.45
24:D4:106:ARG:HG3	24:D4:107:TYR:N	2.31	0.45
26:F4:118:ASN:ND2	26:F4:183:GLY:HA3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:179:ASN:O	26:F4:183:GLY:HA2	2.16	0.45
29:K4:96:ARG:O	29:K4:98:ARG:HG2	2.17	0.45
8:f5:92:LYS:HG2	21:i5:1303:C:O2'	2.15	0.45
10:C5:196:ILE:HA	10:C5:197:PRO:HD3	1.81	0.45
12:J5:75:ASN:HB3	25:E5:252:ARG:NH2	2.32	0.45
15:O5:147:ARG:HD2	15:O5:150:ARG:NE	2.31	0.45
21:i5:290:U:O2'	21:i5:292:A:N7	2.49	0.45
21:i5:1057:C:H6	21:i5:1059:G:H8	1.64	0.45
21:i5:1511:U:O2'	21:i5:1512:C:O5'	2.32	0.45
21:i5:1537:A:H2	21:i5:1597:C:N3	2.14	0.45
23:B5:197:ILE:O	23:B5:201:CYS:N	2.35	0.45
24:D5:71:ALA:O	24:D5:75:LYS:N	2.47	0.45
26:F5:39:ILE:HG23	26:F5:68:ILE:HG21	1.99	0.45
29:K5:10:ALA:O	29:K5:14:LEU:N	2.37	0.45
1:T6:34:VAL:HG23	1:T6:35:ASP:H	1.81	0.45
9:g6:170:TRP:HB3	9:g6:194:TYR:HB2	1.99	0.45
11:G6:36:VAL:N	11:G6:50:VAL:O	2.48	0.45
14:N6:141:TYR:HE1	14:N6:146:ALA:HB1	1.80	0.45
16:W6:77:PRO:HG2	16:W6:79:PHE:CZ	2.52	0.45
17:Y6:58:PHE:O	17:Y6:72:PHE:N	2.32	0.45
21:i6:13:C:O3'	21:i6:1355:C:O2	2.35	0.45
21:i6:535:G:H22	21:i6:537:C:H1'	1.82	0.45
21:i6:1057:C:H6	21:i6:1059:G:H8	1.64	0.45
21:i6:1414:A:N6	21:i6:1419:C:H41	2.14	0.45
21:i6:1539:U:H3	21:i6:1594:A:H61	1.62	0.45
24:D6:64:ARG:CG	29:K6:95:ARG:HH22	2.27	0.45
26:F6:107:ASN:HA	26:F6:108:PRO:HD2	1.71	0.45
28:I6:8:TRP:CZ3	28:I6:20:PRO:HB3	2.52	0.45
31:P6:115:TYR:CZ	31:P6:118:GLU:HB2	2.51	0.45
31:P6:119:PHE:CD1	34:S6:119:ALA:CA	2.99	0.45
36:k5:169:TYR:N	36:k5:169:TYR:HD2	2.14	0.45
37:l1:128:VAL:HG13	37:l1:166:ILE:CB	2.41	0.45
37:l4:120:ILE:HG23	37:l4:121:PRO:HD2	1.99	0.45
5:a1:89:ARG:HA	5:a1:92:ARG:NH1	2.32	0.45
8:f1:93:HIS:CB	21:i1:1304:U:H4'	2.28	0.45
9:g1:62:HIS:CE1	9:g1:82:SER:HA	2.52	0.45
10:C1:191:VAL:HA	10:C1:228:GLY:HA3	1.98	0.45
10:C1:267:GLN:C	10:C1:269:PHE:H	2.24	0.45
11:G1:194:LEU:O	11:G1:198:ARG:N	2.43	0.45
12:J1:75:ASN:HB3	25:E1:252:ARG:NH2	2.32	0.45
12:J1:132:GLN:HB2	21:i1:562:U:H4'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:93:U:H2'	21:i1:94:G:O4'	2.17	0.45
21:i1:555:A:H8	21:i1:556:U:H4'	1.80	0.45
21:i1:1535:U:H5'	21:i1:1536:G:C8	2.52	0.45
21:i1:1766:C:OP2	31:P6:12:PHE:HE2	1.95	0.45
22:A1:149:ASN:HB2	22:A1:165:ASN:OD1	2.16	0.45
24:D1:167:TYR:OH	24:D1:201:LYS:O	2.30	0.45
25:E1:124:CYS:SG	25:E1:141:THR:HB	2.56	0.45
28:I1:124:LYS:HA	15:O6:66:ARG:HH22	1.76	0.45
30:L1:5:GLN:O	30:L1:7:GLU:N	2.46	0.45
31:P1:119:PHE:CD1	34:S1:119:ALA:CA	2.99	0.45
34:S1:17:ASN:HD22	34:S1:101:ASN:ND2	2.10	0.45
3:V2:69:ILE:O	3:V2:73:ALA:N	2.38	0.45
10:C2:267:GLN:C	10:C2:269:PHE:H	2.25	0.45
11:G2:209:TYR:HA	11:G2:213:LEU:HB3	1.99	0.45
12:J2:107:GLU:O	12:J2:112:THR:OG1	2.33	0.45
12:J2:128:VAL:HG21	21:i2:525:A:O2'	2.17	0.45
21:i2:93:U:H2'	21:i2:94:G:O4'	2.17	0.45
21:i2:553:U:H2'	21:i2:554:A:C8	2.51	0.45
21:i2:1036:A:H2'	21:i2:1037:G:H5'	1.99	0.45
21:i2:1078:C:H2'	21:i2:1079:C:C6	2.52	0.45
21:i2:1113:A:H3'	21:i2:1114:U:H5'	1.97	0.45
21:i2:1277:C:H3'	21:i2:1278:A:C8	2.51	0.45
24:D2:76:ARG:HD3	29:K2:22:VAL:HB	1.98	0.45
26:F2:127:ARG:C	26:F2:137:GLN:HB2	2.42	0.45
26:F2:179:ASN:O	26:F2:183:GLY:HA2	2.16	0.45
29:K2:51:SER:O	29:K2:54:SER:OG	2.25	0.45
2:U3:20:ILE:HD13	2:U3:116:ILE:O	2.15	0.45
3:V3:35:ASN:HB3	3:V3:50:PHE:CD1	2.52	0.45
11:G3:209:TYR:HA	11:G3:213:LEU:HB3	1.98	0.45
12:J3:75:ASN:HB3	25:E3:252:ARG:NH2	2.32	0.45
16:W3:77:PRO:HG2	16:W3:79:PHE:CZ	2.52	0.45
16:W3:88:LYS:NZ	21:i3:420:G:OP1	2.44	0.45
21:i3:380:G:OP1	28:I3:31:ARG:HD2	2.16	0.45
21:i3:488:U:O2'	21:i3:489:A:OP1	2.34	0.45
21:i3:535:G:H22	21:i3:537:C:H1'	1.82	0.45
21:i3:1078:C:H2'	21:i3:1079:C:C6	2.52	0.45
21:i3:1255:G:H5'	21:i3:1256:G:H4'	1.99	0.45
21:i3:1606:G:O2'	21:i3:1607:A:H8	2.00	0.45
22:A3:212:LYS:HE3	22:A3:212:LYS:HB3	1.62	0.45
24:D3:106:ARG:HB3	24:D3:175:VAL:HG12	1.98	0.45
26:F3:39:ILE:HG23	26:F3:68:ILE:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F3:86:LYS:O	26:F3:87:LEU:HD12	2.17	0.45
28:I3:162:LEU:HG	28:I3:166:PHE:HE2	1.82	0.45
35:j3:5:TRP:CE3	35:j3:5:TRP:CA	3.00	0.45
4:X4:51:VAL:HG21	4:X4:94:ILE:HD11	1.99	0.45
11:G4:140:ARG:HD3	11:G4:140:ARG:HA	1.70	0.45
11:G4:148:SER:OG	11:G4:149:LYS:HA	2.16	0.45
11:G4:223:LYS:O	11:G4:227:GLN:HG2	2.17	0.45
18:Z4:111:ARG:O	18:Z4:113:THR:N	2.50	0.45
21:i4:12:U:O2'	21:i4:1356:G:C2'	2.65	0.45
22:A4:210:ILE:CG1	22:A4:211:GLU:N	2.74	0.45
26:F4:88:MET:HB2	26:F4:91:ARG:NH2	2.30	0.45
9:g5:125:ARG:HB2	9:g5:150:TRP:CG	2.51	0.45
9:g5:236:ILE:HG21	9:g5:239:LEU:HB2	1.97	0.45
10:C5:275:LYS:CE	10:C5:275:LYS:HA	2.46	0.45
11:G5:148:SER:OG	11:G5:149:LYS:HA	2.16	0.45
11:G5:152:ASP:OD1	11:G5:155:GLN:HG2	2.16	0.45
21:i5:1083:A:O2'	21:i5:1858:G:N2	2.44	0.45
21:i5:1572:C:H2'	21:i5:1573:G:O4'	2.17	0.45
25:E5:71:LYS:HD3	25:E5:74:GLY:HA2	1.98	0.45
31:P5:41:GLN:CB	31:P5:84:ILE:CD1	2.56	0.45
1:T6:3:GLY:O	1:T6:4:VAL:HG12	2.17	0.45
4:X6:51:VAL:HG21	4:X6:94:ILE:HD11	1.99	0.45
8:f6:92:LYS:HG2	21:i6:1303:C:O2'	2.15	0.45
11:G6:77:LEU:N	11:G6:93:LYS:O	2.44	0.45
11:G6:149:LYS:NZ	11:G6:149:LYS:CB	2.75	0.45
11:G6:181:THR:HG22	11:G6:184:VAL:HG23	1.98	0.45
12:J6:49:THR:O	12:J6:53:ILE:HG12	2.15	0.45
18:Z6:111:ARG:O	18:Z6:113:THR:N	2.50	0.45
21:i6:93:U:H2'	21:i6:94:G:O4'	2.16	0.45
21:i6:509:G:H2'	21:i6:510:G:C8	2.51	0.45
22:A6:212:LYS:HE3	22:A6:212:LYS:HB3	1.62	0.45
25:E6:71:LYS:HD3	25:E6:74:GLY:HA2	1.98	0.45
26:F6:173:LEU:O	26:F6:177:LEU:HG	2.17	0.45
27:H6:134:VAL:HG22	27:H6:173:PHE:CD2	2.52	0.45
28:I6:193:LYS:O	28:I6:196:GLU:HG2	2.17	0.45
36:k2:33:PHE:CD1	36:k2:92:LEU:HG	2.51	0.45
37:l1:158:VAL:HG23	37:l1:164:ILE:CD1	2.45	0.45
37:l3:178:ILE:CD1	37:l3:190:ILE:HG22	2.17	0.45
1:T1:3:GLY:O	1:T1:4:VAL:HG12	2.17	0.45
2:U1:77:TRP:HD1	32:Q1:132:PHE:HB2	1.80	0.45
3:V1:35:ASN:HB3	3:V1:50:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X1:91:LEU:O	4:X1:94:ILE:HG22	2.16	0.45
5:a1:92:ARG:HB3	21:i1:1865:C:O2	2.16	0.45
9:g1:109:LEU:HB3	9:g1:110:SER:H	1.50	0.45
9:g1:220:ASP:OD1	9:g1:227:LEU:HG	2.16	0.45
13:M1:36:ARG:HE	13:M1:40:LYS:NZ	2.08	0.45
15:O1:71:PRO:O	15:O1:75:MET:HG3	2.17	0.45
21:i1:535:G:N3	21:i1:535:G:H2'	2.31	0.45
21:i1:842:C:H2'	21:i1:843:C:O4'	2.16	0.45
22:A1:80:ARG:HH22	22:A1:166:LYS:HG2	1.82	0.45
23:B1:22:VAL:HB	30:L3:31:GLU:OE2	2.16	0.45
23:B1:34:LYS:HG2	23:B1:43:ASN:HB3	1.99	0.45
27:H1:147:LYS:O	27:H1:149:ASP:N	2.48	0.45
30:L1:132:ARG:O	30:L1:134:LEU:N	2.50	0.45
33:R1:77:GLU:HG2	33:R1:81:ARG:CG	2.45	0.45
35:j1:5:TRP:CE3	35:j1:5:TRP:CA	3.00	0.45
5:a2:100:ARG:C	5:a2:102:ARG:N	2.74	0.45
15:O2:128:ARG:NH1	15:O2:130:GLU:HB2	2.31	0.45
18:Z2:49:LEU:H	18:Z2:83:LEU:HD12	1.81	0.45
18:Z2:85:ARG:NH2	18:Z2:85:ARG:CG	2.73	0.45
21:i2:1057:C:H6	21:i2:1059:G:H8	1.64	0.45
21:i2:1414:A:N6	21:i2:1429:G:H1	2.15	0.45
22:A2:9:GLN:O	22:A2:11:LYS:HG2	2.15	0.45
22:A2:77:ILE:HD11	22:A2:103:PHE:HD1	1.77	0.45
22:A2:80:ARG:HH22	22:A2:166:LYS:HG2	1.82	0.45
22:A2:215:GLN:HE21	33:R2:80:ARG:NH1	2.15	0.45
23:B2:21:VAL:O	30:L4:31:GLU:OE1	2.22	0.45
23:B2:34:LYS:HG2	23:B2:43:ASN:HB3	1.99	0.45
24:D2:30:ALA:HB1	24:D2:103:GLU:OE1	2.17	0.45
31:P2:60:LEU:HD22	31:P2:92:SER:OG	2.17	0.45
1:T3:99:VAL:O	1:T3:103:VAL:HG23	2.17	0.45
3:V3:60:ARG:HH12	22:A3:158:ASP:HB3	1.81	0.45
10:C3:65:LYS:HG2	10:C3:279:ARG:HE	1.78	0.45
11:G3:75:LEU:HD22	21:i3:1791:A:H4'	1.97	0.45
14:N3:72:LEU:HB2	21:i3:1019:C:H5''	1.99	0.45
15:O3:43:HIS:HA	15:O3:55:ARG:HA	1.97	0.45
16:W3:124:LYS:NZ	21:i3:863:U:O2	2.38	0.45
21:i3:98:C:H42	21:i3:432:G:H1	1.63	0.45
21:i3:1070:A:OP1	36:k3:18:LYS:HA	2.17	0.45
21:i3:1535:U:H5'	21:i3:1536:G:C8	2.52	0.45
22:A3:149:ASN:HB2	22:A3:165:ASN:OD1	2.16	0.45
23:B3:34:LYS:HG2	23:B3:43:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P3:60:LEU:HD22	31:P3:92:SER:OG	2.17	0.45
33:R3:61:ILE:O	33:R3:73:LEU:CG	2.63	0.45
10:C4:125:LYS:CE	21:i4:1357:A:OP1	2.64	0.45
11:G4:186:GLN:CD	21:i4:331:C:H42	2.25	0.45
11:G4:209:TYR:HB3	11:G4:214:ALA:HB2	1.98	0.45
16:W4:77:PRO:HG2	16:W4:79:PHE:CZ	2.52	0.45
17:Y4:17:LEU:HD22	25:E4:69:PHE:CE1	2.49	0.45
18:Z4:92:LEU:HA	18:Z4:97:ILE:HB	1.99	0.45
21:i4:24:C:O2'	21:i4:25:A:H2'	2.17	0.45
21:i4:338:G:O2'	21:i4:339:A:H5'	2.16	0.45
21:i4:490:C:H42	21:i4:510:G:H1	1.63	0.45
21:i4:1751:C:C2'	21:i4:1752:C:OP1	2.64	0.45
23:B4:34:LYS:HG2	23:B4:43:ASN:HB3	1.99	0.45
24:D4:106:ARG:HB3	24:D4:175:VAL:HG12	1.97	0.45
28:I4:92:ARG:CG	36:k2:9:GLU:OE2	2.62	0.45
28:I4:162:LEU:HG	28:I4:166:PHE:HE2	1.82	0.45
29:K4:58:VAL:CG2	29:K4:69:TRP:HB3	2.46	0.45
31:P4:15:PHE:CZ	31:P4:17:TYR:HB2	2.51	0.45
35:j4:5:TRP:CE3	35:j4:5:TRP:CA	3.00	0.45
3:V5:69:ILE:O	3:V5:73:ALA:N	2.38	0.45
4:X5:107:ARG:HD3	4:X5:112:VAL:HB	1.97	0.45
9:g5:65:PHE:O	9:g5:83:TRP:HD1	1.98	0.45
10:C5:115:GLN:HG3	21:i5:1203:G:H1'	1.99	0.45
14:N5:76:LYS:C	14:N5:79:GLY:H	2.24	0.45
14:N5:149:LEU:CD2	14:N5:149:LEU:C	2.89	0.45
21:i5:190:G:C5'	28:I5:148:LYS:HE2	2.46	0.45
21:i5:215:G:C5	21:i5:312:G:C2	3.05	0.45
21:i5:837:A:C2	21:i5:839:C:H5''	2.52	0.45
21:i5:1236:G:H5'	31:P5:133:ILE:CD1	2.35	0.45
21:i5:1244:U:H2'	21:i5:1245:G:C8	2.52	0.45
21:i5:1606:G:O2'	21:i5:1607:A:H8	1.99	0.45
21:i5:1776:G:N3	21:i5:1776:G:C5'	2.73	0.45
22:A5:211:GLU:HB2	33:R5:81:ARG:NH2	2.19	0.45
23:B5:34:LYS:HG2	23:B5:43:ASN:HB3	1.99	0.45
26:F5:179:ASN:O	26:F5:183:GLY:HA2	2.16	0.45
26:F5:190:ILE:O	26:F5:194:ASP:N	2.48	0.45
28:I5:79:ILE:HG21	28:I5:170:LYS:HD3	1.97	0.45
30:L5:132:ARG:O	30:L5:134:LEU:N	2.50	0.45
5:a6:6:ARG:HH21	21:i6:1134:G:P	2.39	0.45
11:G6:57:ASP:HA	11:G6:106:LEU:HB2	1.99	0.45
12:J6:50:LEU:HD13	12:J6:102:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J6:158:ASP:OD1	12:J6:159:PHE:N	2.45	0.45
17:Y6:88:LYS:HZ3	17:Y6:97:TYR:HD2	1.65	0.45
21:i6:380:G:OP1	28:I6:31:ARG:HD2	2.16	0.45
21:i6:553:U:H2'	21:i6:554:A:C8	2.51	0.45
21:i6:1103:C:N3	21:i6:1130:G:N2	2.64	0.45
21:i6:1270:G:O2'	21:i6:1301:A:N7	2.42	0.45
21:i6:1393:G:H2'	21:i6:1394:G:C8	2.51	0.45
22:A6:80:ARG:HH22	22:A6:166:LYS:HG2	1.82	0.45
22:A6:149:ASN:HB2	22:A6:165:ASN:OD1	2.16	0.45
26:F6:127:ARG:C	26:F6:137:GLN:HB2	2.42	0.45
36:k1:168:HIS:NE2	36:k1:174:LEU:HB2	2.28	0.45
37:l1:164:ILE:O	37:l1:165:ILE:CD1	2.52	0.45
37:l4:120:ILE:O	37:l4:127:TYR:HA	2.17	0.45
37:l6:130:ARG:C	37:l6:131:VAL:HG23	2.42	0.45
1:T1:27:LYS:HG3	1:T1:29:LYS:HG2	1.99	0.45
4:X1:48:LYS:HG3	21:i1:483:C:H5''	1.99	0.45
7:d1:7:TYR:CE2	7:d1:9:SER:HB2	2.51	0.45
15:O1:128:ARG:NH1	15:O1:130:GLU:HB2	2.31	0.45
18:Z1:112:ASN:O	18:Z1:113:THR:OG1	2.33	0.45
21:i1:180:G:O2'	21:i1:181:A:N3	2.50	0.45
21:i1:933:G:H1'	21:i1:1001:A:H5''	1.99	0.45
21:i1:1174:U:P	35:j1:21:ARG:HH21	2.40	0.45
21:i1:1192:U:H2'	21:i1:1193:U:C6	2.52	0.45
21:i1:1747:C:H42	21:i1:1787:G:H1	1.65	0.45
24:D1:30:ALA:HB1	24:D1:103:GLU:OE1	2.17	0.45
5:a2:47:ALA:O	5:a2:50:VAL:HG12	2.16	0.45
9:g2:155:ARG:HB2	9:g2:199:THR:HA	1.98	0.45
9:g2:178:ASN:OD1	9:g2:183:LYS:HB3	2.17	0.45
10:C2:145:LYS:HG2	21:i2:1348:G:H5'	1.83	0.45
10:C2:196:ILE:CG2	10:C2:223:TYR:HB2	2.46	0.45
10:C2:275:LYS:CE	10:C2:275:LYS:HA	2.46	0.45
12:J2:75:ASN:HB3	25:E2:252:ARG:NH2	2.32	0.45
16:W2:33:VAL:HG13	16:W2:34:ILE:HG23	1.98	0.45
21:i2:146:G:O6	21:i2:147:A:N6	2.49	0.45
21:i2:188:C:H5''	21:i2:188:C:H6	1.81	0.45
21:i2:380:G:OP1	28:I2:31:ARG:HD2	2.16	0.45
21:i2:535:G:H22	21:i2:537:C:H1'	1.82	0.45
21:i2:938:A:H2'	21:i2:939:U:O4'	2.16	0.45
21:i2:1572:C:H2'	21:i2:1573:G:O4'	2.17	0.45
24:D2:35:SER:H	24:D2:52:ALA:HA	1.81	0.45
24:D2:53:THR:HG23	24:D2:90:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E2:186:GLY:N	25:E2:189:LEU:HD23	2.32	0.45
27:H2:98:ARG:O	27:H2:100:ILE:N	2.48	0.45
33:R2:80:ARG:CG	33:R2:80:ARG:NH1	2.80	0.45
35:j2:13:LEU:HD22	35:j2:13:LEU:O	2.17	0.45
12:J3:114:VAL:HB	12:J3:126:ALA:HB1	1.99	0.45
21:i3:509:G:H2'	21:i3:510:G:C8	2.51	0.45
21:i3:589:G:O3'	21:i3:590:A:H2'	2.17	0.45
21:i3:837:A:C2	21:i3:839:C:H5''	2.52	0.45
21:i3:1172:U:C5'	35:j3:10:MET:HE2	2.41	0.45
21:i3:1277:C:H3'	21:i3:1278:A:C8	2.51	0.45
21:i3:1454:A:C8	33:R3:3:ARG:HG3	2.52	0.45
22:A3:210:ILE:C	22:A3:212:LYS:N	2.75	0.45
24:D3:30:ALA:HB1	24:D3:103:GLU:OE1	2.17	0.45
24:D3:35:SER:H	24:D3:52:ALA:HA	1.82	0.45
24:D3:74:GLN:NE2	24:D3:84:VAL:O	2.50	0.45
25:E3:132:GLY:N	25:E3:136:ILE:O	2.46	0.45
26:F3:104:THR:OG1	26:F3:178:ILE:HD12	2.16	0.45
26:F3:118:ASN:ND2	26:F3:183:GLY:HA3	2.31	0.45
33:R3:32:LYS:HZ1	33:R3:47:ARG:HH21	1.63	0.45
1:T4:27:LYS:HG3	1:T4:29:LYS:HG2	1.99	0.45
9:g4:292:SER:OG	9:g4:293:ALA:N	2.45	0.45
11:G4:159:ARG:HB3	11:G4:172:LYS:HB3	1.99	0.45
11:G4:186:GLN:NE2	21:i4:331:C:N3	2.49	0.45
12:J4:5:ARG:HD2	21:i4:38:A:H5''	1.97	0.45
15:O4:128:ARG:NH1	15:O4:130:GLU:HB2	2.31	0.45
21:i4:109:U:H3	21:i4:352:U:H3	1.65	0.45
21:i4:1709:G:OP1	37:I4:151:LYS:HD3	2.17	0.45
24:D4:30:ALA:HB1	24:D4:103:GLU:OE1	2.17	0.45
24:D4:64:ARG:HE	29:K4:95:ARG:NE	2.15	0.45
24:D4:71:ALA:HB1	24:D4:75:LYS:HD2	1.98	0.45
24:D4:104:SER:HB3	24:D4:108:LYS:HE2	1.99	0.45
3:V5:24:ILE:HG23	3:V5:28:ASP:HB3	1.99	0.45
3:V5:35:ASN:HB3	3:V5:50:PHE:CD1	2.52	0.45
3:V5:60:ARG:HH12	22:A5:158:ASP:HB3	1.81	0.45
9:g5:84:ASP:OD1	9:g5:84:ASP:N	2.50	0.45
10:C5:65:LYS:HG2	10:C5:279:ARG:HE	1.78	0.45
11:G5:209:TYR:HA	11:G5:213:LEU:HB3	1.99	0.45
16:W5:12:LYS:NZ	21:i5:1153:C:OP1	2.48	0.45
17:Y5:20:ARG:NH1	17:Y5:22:GLN:OE1	2.44	0.45
21:i5:93:U:O2'	25:E5:8:HIS:ND1	2.43	0.45
21:i5:180:G:O2'	21:i5:181:A:N3	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:180:G:O2'	21:i5:181:A:H2'	2.17	0.45
21:i5:209:A:C6	21:i5:210:U:H1'	2.51	0.45
21:i5:380:G:OP1	28:I5:31:ARG:HD2	2.16	0.45
21:i5:380:G:H5''	28:I5:31:ARG:HH11	1.82	0.45
21:i5:583:C:H5'	21:i5:584:G:OP2	2.17	0.45
21:i5:873:G:H21	27:H5:114:GLN:CD	2.25	0.45
21:i5:1325:G:N2	21:i5:1504:U:O2	2.50	0.45
21:i5:1565:C:H2'	21:i5:1566:G:O4'	2.16	0.45
22:A5:149:ASN:HB2	22:A5:165:ASN:OD1	2.16	0.45
25:E5:186:GLY:N	25:E5:189:LEU:HD23	2.32	0.45
3:V6:24:ILE:HG23	3:V6:28:ASP:HB3	1.99	0.45
9:g6:62:HIS:CE1	9:g6:82:SER:HA	2.52	0.45
21:i6:184:G:C2'	21:i6:185:G:H5'	2.47	0.45
21:i6:338:G:O2'	21:i6:339:A:H5'	2.17	0.45
21:i6:380:G:P	28:I6:56:ARG:HH22	2.39	0.45
21:i6:598:G:O2'	21:i6:605:A:N1	2.42	0.45
21:i6:628:A:N3	24:D6:179:GLN:CG	2.79	0.45
21:i6:1192:U:H2'	21:i6:1193:U:C6	2.52	0.45
21:i6:1535:U:H5'	21:i6:1536:G:C8	2.52	0.45
24:D6:167:TYR:OH	24:D6:201:LYS:O	2.30	0.45
26:F6:179:ASN:O	26:F6:183:GLY:HA2	2.16	0.45
32:Q6:123:ASP:HA	32:Q6:124:PRO:HD2	1.74	0.45
36:k1:82:LEU:HD23	36:k1:142:ALA:HB3	1.99	0.45
36:k2:92:LEU:HD23	36:k2:93:PRO:HD2	1.99	0.45
36:k4:96:GLN:HE22	36:k4:122:LYS:HD3	1.82	0.45
37:I5:130:ARG:C	37:I5:131:VAL:HG23	2.42	0.45
11:G1:57:ASP:HA	11:G1:106:LEU:HB2	1.99	0.45
15:O1:17:LEU:CD2	15:O1:18:GLY:H	2.22	0.45
21:i1:109:U:H3	21:i1:352:U:H3	1.65	0.45
21:i1:380:G:H5''	28:I1:31:ARG:HH11	1.82	0.45
21:i1:968:U:H4'	21:i1:972:A:H1'	1.97	0.45
21:i1:1078:C:H2'	21:i1:1079:C:C6	2.52	0.45
21:i1:1325:G:N2	21:i1:1504:U:O2	2.50	0.45
22:A1:9:GLN:O	22:A1:11:LYS:HG2	2.16	0.45
25:E1:186:GLY:N	25:E1:189:LEU:HD23	2.32	0.45
34:S1:108:ARG:HH21	21:i3:1773:C:P	2.40	0.45
4:X2:107:ARG:HD3	4:X2:112:VAL:HB	1.98	0.45
7:d2:7:TYR:CE2	7:d2:9:SER:HB2	2.51	0.45
10:C2:207:ALA:O	10:C2:210:PRO:HD2	2.17	0.45
12:J2:132:GLN:HB2	21:i2:562:U:H4'	1.99	0.45
13:M2:111:VAL:HG12	13:M2:114:TYR:CE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:367:U:OP1	28:I2:11:ARG:NH2	2.49	0.45
21:i2:496:C:H42	21:i2:506:G:H1	1.65	0.45
21:i2:933:G:H1'	21:i2:1001:A:H5''	1.99	0.45
21:i2:1061:U:O2'	21:i2:1062:A:OP2	2.32	0.45
21:i2:1325:G:H4'	21:i2:1510:G:H4'	1.99	0.45
22:A2:22:GLY:O	22:A2:24:HIS:N	2.46	0.45
22:A2:149:ASN:HB2	22:A2:165:ASN:OD1	2.16	0.45
26:F2:49:LEU:HA	26:F2:50:PRO:HD3	1.84	0.45
26:F2:173:LEU:O	26:F2:177:LEU:HG	2.17	0.45
3:V3:65:SER:O	3:V3:68:SER:OG	2.23	0.45
4:X3:52:LEU:HD22	4:X3:53:GLU:HG2	1.98	0.45
9:g3:109:LEU:HB3	9:g3:110:SER:H	1.50	0.45
9:g3:215:GLN:HA	9:g3:231:ASP:HA	1.97	0.45
12:J3:5:ARG:HD2	21:i3:38:A:H5''	1.97	0.45
12:J3:58:ARG:O	12:J3:62:THR:HG23	2.16	0.45
14:N3:3:ARG:HD3	21:i3:924:G:OP1	2.16	0.45
21:i3:1325:G:N2	21:i3:1504:U:O2	2.50	0.45
21:i3:1421:A:H62	21:i3:1422:G:N2	2.15	0.45
21:i3:1453:C:H42	21:i3:1475:G:H1	1.64	0.45
21:i3:1546:G:H21	21:i3:1669:G:N2	2.15	0.45
22:A3:183:LEU:HD23	22:A3:186:ARG:HD2	1.99	0.45
25:E3:186:GLY:N	25:E3:189:LEU:HD23	2.32	0.45
26:F3:191:LYS:HE2	28:I6:142:SER:HB3	1.98	0.45
27:H3:58:LYS:O	27:H3:90:LYS:HD3	2.16	0.45
27:H3:65:PRO:HB2	27:H3:68:GLN:HE22	1.80	0.45
27:H3:98:ARG:O	27:H3:100:ILE:N	2.48	0.45
29:K3:24:LYS:HA	29:K3:66:HIS:HA	1.99	0.45
10:C4:279:ARG:C	10:C4:280:VAL:CG1	2.76	0.45
11:G4:57:ASP:HA	11:G4:106:LEU:HB2	1.99	0.45
12:J4:163:SER:H	12:J4:167:GLY:HA3	1.81	0.45
19:b4:36:LYS:HG3	19:b4:78:SER:OG	2.17	0.45
21:i4:94:G:O2'	21:i4:508:A:O2'	2.16	0.45
21:i4:496:C:H42	21:i4:506:G:H1	1.65	0.45
21:i4:535:G:H22	21:i4:537:C:H1'	1.82	0.45
26:F4:86:LYS:O	26:F4:87:LEU:HD12	2.17	0.45
26:F4:127:ARG:C	26:F4:137:GLN:HB2	2.42	0.45
27:H4:58:LYS:O	27:H4:90:LYS:HD3	2.16	0.45
8:f5:78:LYS:CE	21:i5:1328:G:OP1	2.65	0.45
9:g5:168:CYS:SG	9:g5:169:GLY:N	2.87	0.45
14:N5:91:LEU:HD11	14:N5:121:ARG:HD2	1.98	0.45
17:Y5:20:ARG:HH11	17:Y5:74:MET:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:98:C:H42	21:i5:432:G:H1	1.63	0.45
21:i5:215:G:N7	21:i5:312:G:C6	2.85	0.45
21:i5:795:A:N6	27:H5:109:ARG:HH22	2.13	0.45
21:i5:851:C:H5''	21:i5:852:G:O4'	2.17	0.45
21:i5:1096:G:H2'	21:i5:1097:G:H8	1.81	0.45
21:i5:1239:U:H1'	21:i5:1242:U:C5	2.52	0.45
22:A5:215:GLN:HE21	33:R5:80:ARG:NH1	2.15	0.45
24:D5:104:SER:HB3	24:D5:108:LYS:HE2	1.99	0.45
26:F5:173:LEU:O	26:F5:177:LEU:HG	2.17	0.45
27:H5:69:LEU:HA	27:H5:72:PHE:HD2	1.82	0.45
27:H5:134:VAL:HG22	27:H5:173:PHE:CD2	2.51	0.45
28:I5:81:VAL:HG22	28:I5:102:VAL:HG12	1.98	0.45
30:L5:35:ARG:NE	30:L5:50:ALA:O	2.45	0.45
2:U6:34:LYS:HA	2:U6:37:ALA:HB3	1.99	0.45
2:U6:77:TRP:HD1	32:Q6:132:PHE:HB2	1.80	0.45
10:C6:235:ASN:HB3	21:i6:1355:C:O2'	2.17	0.45
14:N6:133:ARG:HH21	30:L6:154:GLN:HB2	1.66	0.45
15:O6:147:ARG:HD2	15:O6:150:ARG:NE	2.30	0.45
21:i6:122:G:H1	21:i6:342:C:H42	1.63	0.45
21:i6:130:G:O5'	21:i6:214:U:C4	2.70	0.45
21:i6:211:G:C2	21:i6:212:C:O2	2.70	0.45
21:i6:212:C:O5'	21:i6:212:C:H6	2.00	0.45
21:i6:535:G:H2'	21:i6:535:G:N3	2.31	0.45
21:i6:873:G:H21	27:H6:114:GLN:CD	2.25	0.45
21:i6:933:G:H1'	21:i6:1001:A:H5''	1.99	0.45
21:i6:1144:A:C4'	21:i6:1355:C:H41	2.29	0.45
21:i6:1351:G:C2'	21:i6:1352:G:H8	2.13	0.45
21:i6:1421:A:H62	21:i6:1422:G:N2	2.14	0.45
21:i6:1572:C:H2'	21:i6:1573:G:O4'	2.17	0.45
26:F6:39:ILE:HG23	26:F6:68:ILE:HG21	1.99	0.45
28:I6:162:LEU:HG	28:I6:166:PHE:HE2	1.81	0.45
36:k1:39:TRP:NE1	36:k1:90:PHE:CE1	2.83	0.45
36:k2:88:TYR:HB3	36:k2:91:ILE:HG23	1.99	0.45
37:l2:118:ALA:O	37:l2:119:LYS:HB3	2.16	0.45
37:l2:120:ILE:HG23	37:l2:121:PRO:HD2	1.98	0.45
37:l4:113:GLN:HA	37:l4:114:LYS:HA	1.58	0.45
7:d1:7:TYR:HE2	7:d1:9:SER:HB2	1.82	0.45
9:g1:170:TRP:HB3	9:g1:194:TYR:HB2	1.98	0.45
11:G1:65:GLN:HE22	21:i1:1746:U:C4'	2.30	0.45
11:G1:223:LYS:O	11:G1:227:GLN:HG2	2.17	0.45
12:J1:57:ALA:O	12:J1:61:LEU:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J1:127:ARG:NH1	21:i1:523:A:OP1	2.50	0.45
13:M1:27:ILE:CG2	29:K1:84:HIS:CD2	3.00	0.45
14:N1:133:ARG:HH11	30:L1:152:LYS:C	2.24	0.45
17:Y1:54:VAL:HB	17:Y1:76:TYR:HB2	1.98	0.45
18:Z1:92:LEU:HA	18:Z1:97:ILE:HB	1.99	0.45
21:i1:338:G:O2'	21:i1:339:A:H5'	2.17	0.45
21:i1:589:G:O3'	21:i1:590:A:H2'	2.17	0.45
21:i1:691:G:OP1	21:i1:691:G:C8	2.70	0.45
21:i1:695:C:H6	21:i1:695:C:H5''	1.82	0.45
21:i1:800:U:H3	21:i1:865:A:H2	1.62	0.45
21:i1:1096:G:H2'	21:i1:1097:G:H8	1.81	0.45
22:A1:214:GLU:CB	33:R1:84:TYR:CE1	2.98	0.45
24:D1:76:ARG:HD3	29:K1:22:VAL:HB	1.98	0.45
27:H1:10:LYS:NZ	27:H1:14:GLU:OE2	2.48	0.45
30:L1:124:ASP:OD2	30:L1:147:LYS:HD2	2.17	0.45
32:Q1:109:LYS:HE2	32:Q1:120:LEU:HD21	1.99	0.45
1:T2:35:ASP:CB	34:S2:46:ARG:NE	2.62	0.45
1:T2:35:ASP:HB2	34:S2:46:ARG:NE	2.17	0.45
5:a2:92:ARG:HB3	21:i2:1865:C:O2	2.16	0.45
10:C2:115:GLN:HG3	21:i2:1203:G:H1'	1.99	0.45
10:C2:168:GLY:N	10:C2:179:THR:O	2.32	0.45
11:G2:143:LYS:CA	21:i2:1776:G:O2'	2.57	0.45
12:J2:114:VAL:HB	12:J2:126:ALA:HB1	1.99	0.45
14:N2:72:LEU:HB2	21:i2:1019:C:H5''	1.99	0.45
14:N2:148:ALA:C	14:N2:149:LEU:HD13	2.42	0.45
16:W2:27:ILE:HG12	16:W2:61:ILE:HB	1.98	0.45
21:i2:180:G:O2'	21:i2:181:A:N3	2.50	0.45
21:i2:509:G:H2'	21:i2:510:G:C8	2.51	0.45
21:i2:970:G:N2	28:I4:200:ARG:CB	2.80	0.45
21:i2:1005:G:OP1	23:B2:162:ARG:NH1	2.50	0.45
21:i2:1537:A:H2	21:i2:1597:C:N3	2.14	0.45
24:D2:74:GLN:NE2	24:D2:84:VAL:O	2.50	0.45
26:F2:86:LYS:O	26:F2:87:LEU:HD12	2.17	0.45
26:F2:88:MET:HB2	26:F2:91:ARG:NH2	2.30	0.45
27:H2:158:LEU:O	27:H2:190:PRO:HD2	2.17	0.45
33:R2:61:ILE:HG22	33:R2:66:VAL:H	1.82	0.45
4:X3:85:VAL:HA	4:X3:86:PRO:HD2	1.88	0.45
11:G3:147:LEU:CD1	11:G3:147:LEU:C	2.86	0.45
21:i3:93:U:H2'	21:i3:94:G:O4'	2.17	0.45
21:i3:109:U:H3	21:i3:352:U:H3	1.65	0.45
21:i3:380:G:H5''	28:I3:31:ARG:HH11	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1747:C:H42	21:i3:1787:G:H1	1.65	0.45
21:i3:1843:G:H8	35:j3:4:LYS:HZ3	1.56	0.45
25:E3:38:LEU:HA	25:E3:41:CYS:SG	2.57	0.45
25:E3:95:THR:OG1	25:E3:97:GLU:OE1	2.25	0.45
26:F3:88:MET:HB2	26:F3:91:ARG:NH2	2.31	0.45
34:S3:50:ILE:CD1	34:S3:67:VAL:HG21	2.44	0.45
1:T4:35:ASP:CB	34:S4:46:ARG:NE	2.62	0.45
17:Y4:110:ARG:NH1	17:Y4:128:GLY:O	2.44	0.45
21:i4:180:G:O2'	21:i4:181:A:H2'	2.17	0.45
21:i4:851:C:H5''	21:i4:852:G:O4'	2.17	0.45
21:i4:932:G:O2'	21:i4:934:G:OP2	2.24	0.45
21:i4:1473:G:N2	21:i4:1475:G:H8	2.15	0.45
21:i4:1754:G:H2'	21:i4:1754:G:N3	2.32	0.45
31:P4:60:LEU:HD22	31:P4:92:SER:OG	2.17	0.45
31:P4:119:PHE:CD1	34:S4:119:ALA:CA	2.99	0.45
10:C5:207:ALA:O	10:C5:210:PRO:HD2	2.17	0.45
11:G5:65:GLN:NE2	21:i5:1746:U:H4'	2.32	0.45
12:J5:58:ARG:O	12:J5:62:THR:HG23	2.16	0.45
16:W5:77:PRO:HG2	16:W5:79:PHE:CZ	2.52	0.45
21:i5:1255:G:H5'	21:i5:1256:G:H4'	1.99	0.45
21:i5:1693:G:N2	21:i5:1834:A:C8	2.86	0.45
26:F5:86:LYS:O	26:F5:87:LEU:HD12	2.17	0.45
26:F5:127:ARG:C	26:F5:137:GLN:HB2	2.42	0.45
26:F5:133:THR:HG21	26:F5:135:ARG:NE	2.32	0.45
28:I5:8:TRP:CZ3	28:I5:20:PRO:HB3	2.51	0.45
5:a6:47:ALA:O	5:a6:50:VAL:HG12	2.16	0.45
9:g6:155:ARG:HB2	9:g6:199:THR:HA	1.98	0.45
11:G6:167:LYS:HB3	11:G6:168:LYS:H	1.51	0.45
11:G6:190:ARG:NH2	21:i6:332:G:C5	2.62	0.45
14:N6:72:LEU:HB2	21:i6:1019:C:H5''	1.99	0.45
14:N6:91:LEU:HD11	14:N6:121:ARG:HD2	1.98	0.45
15:O6:49:GLY:O	21:i6:975:G:O2'	2.28	0.45
21:i6:180:G:O2'	21:i6:181:A:H2'	2.17	0.45
21:i6:184:G:H2'	21:i6:185:G:H5'	1.98	0.45
21:i6:563:G:O6	21:i6:564:A:N6	2.50	0.45
21:i6:851:C:H5''	21:i6:852:G:O4'	2.17	0.45
21:i6:1208:A:C5	21:i6:1209:A:N7	2.85	0.45
22:A6:190:SER:HB2	22:A6:193:HIS:HB3	1.99	0.45
24:D6:35:SER:H	24:D6:52:ALA:HA	1.81	0.45
24:D6:43:PRO:O	24:D6:44:THR:OG1	2.32	0.45
24:D6:53:THR:HG23	24:D6:90:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D6:54:ARG:HB2	24:D6:58:VAL:HG13	1.98	0.45
26:F6:190:ILE:O	26:F6:194:ASP:N	2.48	0.45
29:K6:24:LYS:HA	29:K6:66:HIS:HA	1.99	0.45
34:S6:81:ASP:O	34:S6:87:GLN:NE2	2.49	0.45
36:k1:86:HIS:NE2	36:k1:141:HIS:CA	2.79	0.45
36:k1:145:VAL:O	36:k1:167:ILE:N	2.50	0.45
36:k6:93:PRO:O	36:k6:133:ALA:CB	2.60	0.45
37:l2:120:ILE:O	37:l2:127:TYR:HA	2.17	0.45
10:C1:160:LEU:HD22	21:i1:1351:G:OP1	2.17	0.44
10:C1:246:LYS:O	10:C1:249:SER:OG	2.31	0.44
12:J1:114:VAL:HB	12:J1:126:ALA:HB1	1.99	0.44
12:J1:136:ARG:HA	12:J1:141:VAL:HA	1.97	0.44
21:i1:13:C:H1'	21:i1:1356:G:C2	2.51	0.44
21:i1:563:G:O6	21:i1:564:A:N6	2.50	0.44
21:i1:1479:G:H2'	21:i1:1480:A:O4'	2.17	0.44
21:i1:1606:G:O2'	21:i1:1607:A:H8	2.00	0.44
21:i1:1707:U:O2'	21:i1:1849:G:N2	2.50	0.44
21:i1:1753:C:H6	21:i1:1753:C:H3'	1.82	0.44
21:i1:1842:C:H2'	35:j1:4:LYS:NZ	2.32	0.44
26:F1:49:LEU:HA	26:F1:50:PRO:HD3	1.84	0.44
26:F1:127:ARG:C	26:F1:137:GLN:HB2	2.42	0.44
29:K1:96:ARG:O	29:K1:98:ARG:HG2	2.16	0.44
30:L1:147:LYS:HE3	30:L1:147:LYS:HB2	1.76	0.44
32:Q1:87:SER:O	32:Q1:91:ALA:N	2.50	0.44
3:V2:50:PHE:HZ	10:C2:267:GLN:HE22	1.60	0.44
11:G2:159:ARG:HB3	11:G2:172:LYS:HB3	1.99	0.44
11:G2:167:LYS:HB3	11:G2:168:LYS:H	1.51	0.44
14:N2:30:SER:O	14:N2:33:VAL:HG22	2.17	0.44
21:i2:109:U:H3	21:i2:352:U:H3	1.65	0.44
21:i2:216:C:H41	21:i2:309:G:H1	1.66	0.44
21:i2:315:C:H2'	21:i2:316:G:C8	2.52	0.44
21:i2:399:C:C2	30:L2:106:HIS:HD2	2.36	0.44
21:i2:563:G:O6	21:i2:564:A:N6	2.50	0.44
21:i2:583:C:H5'	21:i2:584:G:OP2	2.17	0.44
21:i2:589:G:O3'	21:i2:590:A:H2'	2.17	0.44
21:i2:1334:G:H2'	21:i2:1335:G:O4'	2.17	0.44
21:i2:1606:G:O2'	21:i2:1607:A:H8	2.00	0.44
21:i2:1747:C:H42	21:i2:1787:G:H1	1.65	0.44
21:i2:1785:C:HO2'	21:i2:1786:U:P	2.40	0.44
27:H2:69:LEU:HA	27:H2:72:PHE:HD2	1.83	0.44
29:K2:24:LYS:HA	29:K2:66:HIS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:K2:96:ARG:O	29:K2:98:ARG:HG2	2.17	0.44
33:R2:74:GLN:O	33:R2:76:GLU:N	2.50	0.44
35:j2:5:TRP:CE3	35:j2:5:TRP:CA	3.00	0.44
5:a3:47:ALA:O	5:a3:50:VAL:HG12	2.16	0.44
9:g3:84:ASP:OD1	9:g3:84:ASP:N	2.50	0.44
10:C3:207:ALA:O	10:C3:210:PRO:HD2	2.17	0.44
10:C3:227:ARG:NH1	21:i3:656:G:O2'	2.50	0.44
11:G3:190:ARG:CZ	21:i3:333:G:C6	2.81	0.44
12:J3:127:ARG:NH1	21:i3:523:A:OP1	2.51	0.44
14:N3:30:SER:O	14:N3:33:VAL:HG22	2.17	0.44
21:i3:180:G:O2'	21:i3:181:A:N3	2.50	0.44
21:i3:186:C:O5'	21:i3:186:C:C6	2.70	0.44
21:i3:528:A:H2'	21:i3:529:A:C4'	2.46	0.44
21:i3:851:C:H5''	21:i3:852:G:O4'	2.18	0.44
21:i3:1325:G:H4'	21:i3:1510:G:H4'	1.99	0.44
21:i3:1334:G:H2'	21:i3:1335:G:O4'	2.17	0.44
21:i3:1414:A:N6	21:i3:1429:G:H1	2.15	0.44
21:i3:1473:G:N2	21:i3:1475:G:H8	2.15	0.44
26:F3:49:LEU:HA	26:F3:50:PRO:HD3	1.84	0.44
29:K3:96:ARG:O	29:K3:98:ARG:HG2	2.16	0.44
33:R3:65:PRO:HB3	33:R3:73:LEU:HG	1.99	0.44
12:J4:132:GLN:HB2	21:i4:562:U:H4'	1.98	0.44
14:N4:141:TYR:HE1	14:N4:146:ALA:HB1	1.81	0.44
18:Z4:86:ALA:HB1	34:S4:3:LEU:HG	1.98	0.44
20:e4:47:PRO:HD2	20:e4:48:THR:H	1.83	0.44
21:i4:213:G:N2	21:i4:214:U:N3	2.58	0.44
21:i4:589:G:O3'	21:i4:590:A:H2'	2.17	0.44
21:i4:873:G:H21	27:H4:114:GLN:CD	2.25	0.44
21:i4:1235:G:H1	21:i4:1523:C:N4	2.14	0.44
21:i4:1239:U:H1'	21:i4:1242:U:C5	2.52	0.44
21:i4:1479:G:H2'	21:i4:1480:A:O4'	2.18	0.44
21:i4:1546:G:H21	21:i4:1669:G:N2	2.15	0.44
21:i4:1750:C:O5'	21:i4:1750:C:C6	2.70	0.44
27:H4:158:LEU:O	27:H4:190:PRO:HD2	2.18	0.44
28:I4:8:TRP:CZ3	28:I4:20:PRO:HB3	2.51	0.44
30:L4:132:ARG:O	30:L4:134:LEU:N	2.50	0.44
31:P4:15:PHE:HZ	31:P4:17:TYR:HD2	1.65	0.44
34:S4:50:ILE:HD12	34:S4:67:VAL:HG23	1.83	0.44
5:a5:42:ARG:HB2	5:a5:67:LEU:HD11	1.98	0.44
5:a5:105:GLY:C	5:a5:107:ALA:N	2.73	0.44
8:f5:97:LYS:HG2	21:i5:1288:U:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g5:178:ASN:OD1	9:g5:183:LYS:HB3	2.17	0.44
12:J5:114:VAL:HB	12:J5:126:ALA:HB1	1.99	0.44
21:i5:379:C:OP2	28:I5:181:GLN:NE2	2.49	0.44
21:i5:525:A:O5'	21:i5:525:A:C8	2.70	0.44
21:i5:1473:G:N2	21:i5:1475:G:H8	2.15	0.44
21:i5:1479:G:H2'	21:i5:1480:A:O4'	2.17	0.44
24:D5:74:GLN:NE2	24:D5:84:VAL:O	2.50	0.44
25:E5:124:CYS:O	25:E5:160:ILE:N	2.29	0.44
25:E5:126:VAL:HG12	25:E5:139:LEU:HD13	1.98	0.44
25:E5:132:GLY:N	25:E5:136:ILE:O	2.47	0.44
27:H5:158:LEU:O	27:H5:190:PRO:HD2	2.18	0.44
29:K5:24:LYS:HA	29:K5:66:HIS:HA	1.99	0.44
30:L5:152:LYS:HE2	30:L5:154:GLN:HE21	1.82	0.44
10:C6:207:ALA:O	10:C6:210:PRO:HD2	2.17	0.44
10:C6:227:ARG:NH1	21:i6:656:G:O2'	2.50	0.44
10:C6:275:LYS:CE	10:C6:275:LYS:HA	2.46	0.44
12:J6:114:VAL:HB	12:J6:126:ALA:HB1	1.99	0.44
13:M6:27:ILE:CG2	29:K6:84:HIS:CD2	3.00	0.44
18:Z6:49:LEU:H	18:Z6:83:LEU:HD12	1.81	0.44
21:i6:24:C:O2'	21:i6:25:A:H2'	2.18	0.44
21:i6:693:A:N1	21:i6:734:C:C2	2.77	0.44
21:i6:739:C:H3'	21:i6:746:C:N4	2.31	0.44
21:i6:837:A:C2	21:i6:839:C:H5''	2.52	0.44
21:i6:1453:C:H42	21:i6:1475:G:H1	1.65	0.44
21:i6:1473:G:N2	21:i6:1475:G:H8	2.15	0.44
21:i6:1479:G:H2'	21:i6:1480:A:O4'	2.18	0.44
24:D6:74:GLN:NE2	24:D6:84:VAL:O	2.50	0.44
25:E6:38:LEU:HA	25:E6:41:CYS:SG	2.57	0.44
36:k1:85:LEU:HD23	36:k1:142:ALA:CB	2.46	0.44
36:k2:33:PHE:CD1	36:k2:92:LEU:HD11	2.50	0.44
36:k3:109:ALA:C	36:k3:166:ASN:HD22	2.23	0.44
37:l3:127:TYR:H	37:l3:168:GLY:HA2	1.80	0.44
4:X1:22:TRP:NE1	21:i1:359:U:OP1	2.37	0.44
5:a1:47:ALA:O	5:a1:50:VAL:HG12	2.16	0.44
18:Z1:49:LEU:H	18:Z1:83:LEU:HD12	1.82	0.44
21:i1:317:C:C6	21:i1:317:C:O5'	2.70	0.44
21:i1:380:G:OP1	28:I1:31:ARG:HD2	2.16	0.44
21:i1:1255:G:H5'	21:i1:1256:G:H4'	1.99	0.44
21:i1:1546:G:H21	21:i1:1669:G:N2	2.15	0.44
22:A1:183:LEU:HD23	22:A1:186:ARG:HD2	1.99	0.44
22:A1:190:SER:HB2	22:A1:193:HIS:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:125:VAL:HG12	23:B1:169:MET:HE3	1.99	0.44
28:I1:162:LEU:HG	28:I1:166:PHE:HE2	1.82	0.44
31:P1:34:MET:HB3	31:P1:42:ARG:HG3	1.99	0.44
4:X2:48:LYS:HG3	21:i2:483:C:H5''	1.99	0.44
5:a2:105:GLY:C	5:a2:107:ALA:N	2.73	0.44
7:d2:29:GLY:O	7:d2:40:ARG:N	2.50	0.44
10:C2:227:ARG:NH1	21:i2:656:G:O2'	2.51	0.44
11:G2:147:LEU:HD22	11:G2:147:LEU:C	2.42	0.44
11:G2:223:LYS:O	11:G2:227:GLN:HG2	2.17	0.44
14:N2:39:LYS:HA	14:N2:42:LYS:HZ3	1.81	0.44
14:N2:149:LEU:C	14:N2:149:LEU:CD2	2.89	0.44
21:i2:691:G:H3'	21:i2:692:G:C5'	2.47	0.44
21:i2:851:C:H5''	21:i2:852:G:O4'	2.17	0.44
21:i2:872:A:O2'	21:i2:873:G:OP2	2.33	0.44
21:i2:1300:U:O4	31:P2:51:ARG:HD2	1.99	0.44
22:A2:210:ILE:C	22:A2:212:LYS:N	2.75	0.44
25:E2:38:LEU:HA	25:E2:41:CYS:SG	2.57	0.44
26:F2:118:ASN:ND2	26:F2:183:GLY:HA3	2.32	0.44
27:H2:134:VAL:HG22	27:H2:173:PHE:CD2	2.52	0.44
28:I2:193:LYS:O	28:I2:196:GLU:HG2	2.17	0.44
31:P2:49:LEU:HD23	31:P2:49:LEU:HA	1.78	0.44
1:T3:3:GLY:O	1:T3:4:VAL:HG12	2.17	0.44
2:U3:19:ARG:CD	2:U3:119:ALA:HB3	2.32	0.44
3:V3:24:ILE:HG23	3:V3:28:ASP:HB3	1.99	0.44
5:a3:89:ARG:HA	5:a3:92:ARG:NH1	2.32	0.44
7:d3:29:GLY:O	7:d3:40:ARG:N	2.50	0.44
9:g3:155:ARG:HB2	9:g3:199:THR:HA	1.98	0.44
11:G3:146:ASN:HD22	11:G3:146:ASN:HA	1.59	0.44
11:G3:167:LYS:HB3	11:G3:168:LYS:H	1.51	0.44
14:N3:84:LEU:CB	14:N3:135:LEU:HD21	2.47	0.44
21:i3:535:G:H2'	21:i3:535:G:N3	2.32	0.44
21:i3:583:C:H5'	21:i3:584:G:OP2	2.17	0.44
21:i3:695:C:H6	21:i3:695:C:H5''	1.82	0.44
21:i3:1044:G:H8	21:i3:1044:G:OP2	2.00	0.44
21:i3:1192:U:H2'	21:i3:1193:U:C6	2.52	0.44
21:i3:1239:U:H1'	21:i3:1242:U:C5	2.52	0.44
21:i3:1350:U:H3	21:i3:1379:A:H61	1.66	0.44
21:i3:1842:C:C3'	35:j3:4:LYS:HZ3	2.30	0.44
26:F3:182:LYS:HZ2	21:i6:200:G:C5'	2.09	0.44
27:H3:158:LEU:O	27:H3:190:PRO:HD2	2.18	0.44
32:Q3:109:LYS:HE2	32:Q3:120:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T4:99:VAL:O	1:T4:103:VAL:HG23	2.17	0.44
8:f4:99:LYS:HB2	21:i4:1285:G:H21	1.71	0.44
9:g4:178:ASN:OD1	9:g4:183:LYS:HB3	2.17	0.44
12:J4:110:LEU:HD22	12:J4:147:PHE:CD2	2.53	0.44
12:J4:127:ARG:NH1	21:i4:523:A:OP1	2.50	0.44
13:M4:95:ASP:HB2	13:M4:99:LYS:HB2	2.00	0.44
14:N4:3:ARG:HD3	21:i4:924:G:OP1	2.16	0.44
14:N4:72:LEU:HB2	21:i4:1019:C:H5''	1.99	0.44
17:Y4:20:ARG:NH1	17:Y4:22:GLN:OE1	2.44	0.44
21:i4:187:G:C2	21:i4:213:G:N3	2.80	0.44
21:i4:837:A:C2	21:i4:839:C:H5''	2.52	0.44
21:i4:1325:G:H4'	21:i4:1510:G:H4'	1.99	0.44
21:i4:1696:C:H5'	21:i4:1703:C:C4'	2.42	0.44
26:F4:133:THR:HG21	26:F4:135:ARG:NE	2.32	0.44
27:H4:163:GLN:HG3	27:H4:189:PHE:HZ	1.58	0.44
28:I4:193:LYS:O	28:I4:196:GLU:HG2	2.17	0.44
29:K4:10:ALA:O	29:K4:14:LEU:N	2.37	0.44
33:R4:58:MET:HG3	33:R4:61:ILE:CD1	2.29	0.44
4:X5:51:VAL:HG21	4:X5:94:ILE:HD11	1.99	0.44
7:d5:30:LEU:HG	7:d5:38:MET:O	2.17	0.44
8:f5:87:THR:CB	8:f5:90:LYS:CE	2.85	0.44
9:g5:62:HIS:CE1	9:g5:82:SER:HA	2.52	0.44
11:G5:57:ASP:HA	11:G5:106:LEU:HB2	1.99	0.44
21:i5:24:C:O2'	21:i5:25:A:H2'	2.18	0.44
21:i5:1382:A:H2'	21:i5:1383:A:H5'	1.99	0.44
21:i5:1753:C:C6	21:i5:1753:C:O5'	2.71	0.44
22:A5:190:SER:HB2	22:A5:193:HIS:HB3	1.99	0.44
23:B5:125:VAL:HG12	23:B5:169:MET:HE3	1.99	0.44
27:H5:6:ALA:O	27:H5:24:SER:OG	2.26	0.44
33:R5:68:GLY:HA3	33:R5:69:ILE:HA	1.83	0.44
2:U6:26:SER:HB2	2:U6:32:LEU:HD22	1.99	0.44
7:d6:7:TYR:HE2	7:d6:9:SER:HB2	1.82	0.44
12:J6:75:ASN:HB3	25:E6:252:ARG:NH2	2.32	0.44
13:M6:125:GLU:O	13:M6:129:LYS:N	2.48	0.44
17:Y6:20:ARG:HH11	17:Y6:74:MET:HA	1.82	0.44
21:i6:1239:U:H1'	21:i6:1242:U:C5	2.52	0.44
21:i6:1298:G:OP1	31:P6:102:PHE:CZ	2.71	0.44
21:i6:1325:G:H4'	21:i6:1510:G:H4'	1.99	0.44
22:A6:215:GLN:HE21	33:R6:80:ARG:NH1	2.15	0.44
24:D6:71:ALA:HB1	24:D6:75:LYS:HD2	1.98	0.44
30:L6:121:GLN:HB2	30:L6:153:LYS:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:P6:60:LEU:HD22	31:P6:92:SER:OG	2.17	0.44
33:R6:80:ARG:CG	33:R6:80:ARG:NH1	2.80	0.44
36:k1:11:VAL:HG21	36:k1:177:MET:HE3	1.99	0.44
36:k1:94:HIS:ND1	36:k1:135:MET:CG	2.79	0.44
36:k2:86:HIS:NE2	36:k2:142:ALA:N	2.65	0.44
36:k3:86:HIS:HE2	36:k3:142:ALA:N	2.14	0.44
36:k3:140:GLN:CG	36:k3:141:HIS:ND1	2.80	0.44
36:k6:50:VAL:HG12	36:k6:64:VAL:HG22	2.00	0.44
36:k6:82:LEU:HD12	36:k6:169:TYR:HA	1.99	0.44
37:l4:118:ALA:O	37:l4:119:LYS:HB3	2.16	0.44
9:g1:125:ARG:HB2	9:g1:150:TRP:CG	2.51	0.44
9:g1:178:ASN:OD1	9:g1:183:LYS:HB3	2.17	0.44
14:N1:26:LEU:O	14:N1:26:LEU:HG	2.17	0.44
16:W1:77:PRO:HG2	16:W1:79:PHE:CZ	2.52	0.44
21:i1:367:U:OP1	28:I1:11:ARG:NH2	2.49	0.44
21:i1:1070:A:OP2	36:k1:18:LYS:HD3	2.18	0.44
21:i1:1070:A:P	36:k1:18:LYS:HA	2.58	0.44
24:D1:71:ALA:O	24:D1:75:LYS:N	2.47	0.44
24:D1:104:SER:HB3	24:D1:108:LYS:HE2	2.00	0.44
5:a2:89:ARG:HA	5:a2:92:ARG:NH1	2.32	0.44
7:d2:7:TYR:HE2	7:d2:9:SER:HB2	1.82	0.44
7:d2:30:LEU:HG	7:d2:38:MET:O	2.18	0.44
11:G2:57:ASP:HA	11:G2:106:LEU:HB2	1.99	0.44
12:J2:17:ARG:HE	21:i2:3:C:N4	2.16	0.44
12:J2:58:ARG:O	12:J2:62:THR:HG23	2.16	0.44
12:J2:158:ASP:OD1	12:J2:159:PHE:N	2.44	0.44
16:W2:74:VAL:HG23	16:W2:126:LEU:O	2.17	0.44
21:i2:24:C:O2'	21:i2:25:A:H2'	2.17	0.44
21:i2:130:G:OP1	21:i2:214:U:O4	2.36	0.44
21:i2:180:G:O2'	21:i2:181:A:H2'	2.17	0.44
21:i2:315:C:O5'	21:i2:315:C:C6	2.70	0.44
21:i2:689:U:OP2	21:i2:689:U:C5	2.71	0.44
21:i2:695:C:H6	21:i2:695:C:H5''	1.82	0.44
21:i2:837:A:C2	21:i2:839:C:H5''	2.52	0.44
21:i2:1204:A:H1'	21:i2:1699:A:H2'	1.99	0.44
21:i2:1298:G:OP1	31:P2:102:PHE:CZ	2.70	0.44
21:i2:1699:A:H8	21:i2:1699:A:O5'	2.00	0.44
28:I2:200:ARG:NH2	21:i5:970:G:H2'	2.32	0.44
31:P2:26:LEU:CD2	31:P2:88:GLU:HG3	2.48	0.44
9:g3:62:HIS:CE1	9:g3:82:SER:HA	2.52	0.44
11:G3:68:LEU:O	11:G3:69:THR:OG1	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:55:ARG:HA	14:N3:60:VAL:O	2.18	0.44
14:N3:130:LYS:NZ	14:N3:140:LYS:CD	2.78	0.44
21:i3:317:C:O5'	21:i3:317:C:C6	2.70	0.44
21:i3:933:G:H1'	21:i3:1001:A:H5''	1.99	0.44
21:i3:1037:G:N1	21:i3:1078:C:O2	2.50	0.44
21:i3:1173:A:OP2	35:j3:14:LYS:CD	2.65	0.44
21:i3:1565:C:H2'	21:i3:1566:G:O4'	2.16	0.44
21:i3:1572:C:H2'	21:i3:1573:G:O4'	2.17	0.44
25:E3:127:ARG:NE	25:E3:142:HIS:HA	2.33	0.44
26:F3:59:LYS:HB2	26:F3:62:ARG:HD3	2.00	0.44
27:H3:96:ALA:HB3	27:H3:98:ARG:NH1	2.31	0.44
34:S3:63:GLU:HA	34:S3:66:ARG:HG2	2.00	0.44
5:a4:89:ARG:HA	5:a4:92:ARG:NH1	2.31	0.44
10:C4:227:ARG:NH1	21:i4:656:G:O2'	2.50	0.44
14:N4:131:THR:O	30:L4:152:LYS:HD3	2.17	0.44
18:Z4:111:ARG:C	18:Z4:113:THR:N	2.73	0.44
21:i4:61:A:H2	21:i4:334:C:O2	2.01	0.44
21:i4:380:G:H5''	28:I4:31:ARG:HH11	1.81	0.44
21:i4:933:G:H1'	21:i4:1001:A:H5''	1.99	0.44
21:i4:1377:U:H3'	22:A4:102:ARG:NH2	2.33	0.44
22:A4:90:PHE:CD1	22:A4:179:ALA:HB2	2.53	0.44
22:A4:215:GLN:HE21	33:R4:80:ARG:NH1	2.15	0.44
25:E4:61:VAL:HG12	25:E4:80:ILE:HG23	2.00	0.44
26:F4:191:LYS:HA	26:F4:194:ASP:CB	2.46	0.44
31:P4:15:PHE:CG	31:P4:16:THR:N	2.86	0.44
32:Q4:109:LYS:HE2	32:Q4:120:LEU:HD21	1.99	0.44
5:a5:102:ARG:CB	5:a5:103:PRO:HA	2.40	0.44
12:J5:132:GLN:HB2	21:i5:562:U:H4'	1.98	0.44
20:e5:45:VAL:HG11	21:i5:535:G:H5''	1.98	0.44
21:i5:589:G:O3'	21:i5:590:A:H2'	2.17	0.44
21:i5:1699:A:H8	21:i5:1699:A:O5'	2.00	0.44
24:D5:30:ALA:HB1	24:D5:103:GLU:OE1	2.17	0.44
26:F5:41:VAL:HG11	26:F5:68:ILE:HG12	2.00	0.44
27:H5:96:ALA:HB3	27:H5:98:ARG:NH1	2.31	0.44
5:a6:89:ARG:HA	5:a6:92:ARG:NH1	2.32	0.44
7:d6:30:LEU:HG	7:d6:38:MET:O	2.17	0.44
8:f6:87:THR:HB	8:f6:90:LYS:HE2	1.95	0.44
10:C6:267:GLN:C	10:C6:269:PHE:H	2.25	0.44
11:G6:159:ARG:HB3	11:G6:172:LYS:HB3	1.99	0.44
17:Y6:20:ARG:NH1	17:Y6:22:GLN:OE1	2.44	0.44
20:e6:47:PRO:HD2	20:e6:48:THR:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:180:G:O2'	21:i6:181:A:N3	2.50	0.44
21:i6:1044:G:H8	21:i6:1044:G:OP2	2.01	0.44
21:i6:1546:G:H21	21:i6:1669:G:N2	2.15	0.44
21:i6:1606:G:O2'	21:i6:1607:A:H8	1.99	0.44
21:i6:1689:C:C2'	21:i6:1690:U:H5'	2.48	0.44
21:i6:1848:U:H5'	37:l6:146:ARG:HH12	1.63	0.44
31:P6:41:GLN:HE21	31:P6:84:ILE:HG23	1.62	0.44
36:k1:10:ASN:C	36:k1:56:HIS:CE1	2.86	0.44
36:k1:95:GLN:OE1	36:k1:95:GLN:HA	2.13	0.44
37:l4:136:THR:HA	37:l4:137:PHE:HA	1.79	0.44
37:l5:120:ILE:O	37:l5:127:TYR:HA	2.17	0.44
8:f1:87:THR:HG21	8:f1:90:LYS:HZ3	1.66	0.44
10:C1:227:ARG:NH1	21:i1:656:G:O2'	2.51	0.44
12:J1:39:ASN:HB2	21:i1:642:U:P	2.58	0.44
14:N1:148:ALA:C	14:N1:149:LEU:HD13	2.42	0.44
16:W1:74:VAL:HG23	16:W1:126:LEU:O	2.18	0.44
17:Y1:37:LYS:O	17:Y1:41:ARG:HG2	2.18	0.44
18:Z1:111:ARG:O	18:Z1:113:THR:N	2.50	0.44
19:b1:35:VAL:HG21	19:b1:73:LEU:HD21	1.99	0.44
20:e1:25:LYS:NZ	21:i1:554:A:OP2	2.25	0.44
21:i1:12:U:H4'	21:i1:1357:A:H5'	2.00	0.44
21:i1:76:U:O2'	21:i1:78:C:OP2	2.25	0.44
21:i1:1070:A:OP2	36:k1:18:LYS:HD2	2.17	0.44
21:i1:1239:U:H1'	21:i1:1242:U:C5	2.52	0.44
21:i1:1298:G:OP1	31:P1:102:PHE:CZ	2.71	0.44
21:i1:1693:G:H21	21:i1:1834:A:C1'	2.29	0.44
22:A1:90:PHE:CD1	22:A1:179:ALA:HB2	2.53	0.44
24:D1:53:THR:HG23	24:D1:90:LYS:HE3	1.98	0.44
26:F1:55:ARG:HG2	26:F1:62:ARG:NH1	2.33	0.44
26:F1:86:LYS:O	26:F1:87:LEU:HD12	2.17	0.44
31:P1:15:PHE:CG	31:P1:16:THR:N	2.86	0.44
31:P1:41:GLN:HE22	31:P1:115:TYR:HB3	1.83	0.44
34:S1:108:ARG:NH2	21:i3:1772:C:H3'	2.32	0.44
5:a2:45:VAL:HG22	5:a2:49:ALA:HB3	2.00	0.44
8:f2:80:ARG:NH2	21:i2:1503:C:O2'	2.50	0.44
13:M2:117:GLU:OE1	13:M2:119:GLN:N	2.36	0.44
15:O2:46:ASP:O	15:O2:49:GLY:N	2.40	0.44
16:W2:28:ARG:NH1	21:i2:921:G:H2'	2.33	0.44
21:i2:186:C:H2'	21:i2:187:G:C8	2.52	0.44
21:i2:380:G:H5''	28:l2:31:ARG:HH11	1.82	0.44
21:i2:1325:G:N2	21:i2:1504:U:O2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1382:A:H2'	21:i2:1383:A:H5'	1.98	0.44
21:i2:1702:G:O5'	21:i2:1702:G:C8	2.70	0.44
21:i2:1751:C:C2	21:i2:1784:G:C5	3.05	0.44
24:D2:106:ARG:HB3	24:D2:175:VAL:HG12	1.98	0.44
25:E2:61:VAL:HG12	25:E2:80:ILE:HG23	2.00	0.44
25:E2:127:ARG:NE	25:E2:142:HIS:HA	2.33	0.44
26:F2:70:GLU:O	26:F2:73:THR:OG1	2.30	0.44
28:I2:162:LEU:HG	28:I2:166:PHE:HE2	1.82	0.44
4:X3:48:LYS:HG3	21:i3:483:C:H5''	1.99	0.44
9:g3:110:SER:HB3	9:g3:153:CYS:HA	2.00	0.44
21:i3:209:A:C6	21:i3:210:U:H1'	2.51	0.44
21:i3:216:C:H41	21:i3:309:G:H1	1.66	0.44
21:i3:379:C:OP2	28:I3:181:GLN:NE2	2.49	0.44
21:i3:1057:C:H6	21:i3:1059:G:H8	1.64	0.44
21:i3:1244:U:H2'	21:i3:1245:G:C8	2.52	0.44
31:P3:41:GLN:CG	31:P3:84:ILE:HG21	2.47	0.44
3:V4:24:ILE:HG23	3:V4:28:ASP:HB3	1.99	0.44
7:d4:30:LEU:HA	7:d4:39:CYS:HA	1.98	0.44
7:d4:30:LEU:HG	7:d4:38:MET:O	2.17	0.44
9:g4:162:ASN:O	9:g4:164:ILE:N	2.45	0.44
16:W4:2:VAL:O	16:W4:4:MET:N	2.46	0.44
20:e4:6:LEU:O	20:e4:6:LEU:HD23	2.17	0.44
21:i4:735:C:C3'	21:i4:735:C:C6	3.00	0.44
21:i4:1078:C:H2'	21:i4:1079:C:C6	2.52	0.44
21:i4:1141:G:H1	21:i4:1146:C:H42	1.65	0.44
21:i4:1318:G:C2	21:i4:1319:U:C2	3.06	0.44
21:i4:1325:G:N2	21:i4:1504:U:O2	2.50	0.44
21:i4:1552:G:N3	21:i4:1557:C:N4	2.45	0.44
21:i4:1606:G:O2'	21:i4:1607:A:H8	2.00	0.44
24:D4:64:ARG:CG	29:K4:95:ARG:HH22	2.27	0.44
1:T5:3:GLY:O	1:T5:4:VAL:HG12	2.17	0.44
3:V5:50:PHE:HZ	10:C5:267:GLN:HE22	1.60	0.44
9:g5:6:THR:O	9:g5:8:ARG:NH1	2.51	0.44
11:G5:147:LEU:CD1	11:G5:147:LEU:C	2.86	0.44
11:G5:223:LYS:O	11:G5:227:GLN:HG2	2.17	0.44
14:N5:130:LYS:NZ	14:N5:139:TRP:O	2.44	0.44
15:O5:135:ILE:O	21:i5:943:U:O2'	2.35	0.44
18:Z5:92:LEU:HA	18:Z5:97:ILE:HB	1.99	0.44
21:i5:338:G:O2'	21:i5:339:A:H5'	2.16	0.44
21:i5:399:C:C2	30:L5:106:HIS:HD2	2.36	0.44
21:i5:872:A:O2'	21:i5:873:G:OP2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1044:G:OP2	21:i5:1044:G:H8	2.01	0.44
21:i5:1280:G:C2	21:i5:1281:G:H1'	2.53	0.44
21:i5:1318:G:C2	21:i5:1319:U:C2	3.06	0.44
21:i5:1454:A:C8	33:R5:3:ARG:HG3	2.51	0.44
21:i5:1583:C:H3'	21:i5:1584:G:H8	1.83	0.44
21:i5:1851:A:C5'	35:j5:1:MET:CE	2.92	0.44
23:B5:40:ASN:N	23:B5:75:GLN:OE1	2.34	0.44
23:B5:128:LYS:HG3	23:B5:129:THR:O	2.18	0.44
24:D5:106:ARG:HG3	24:D5:107:TYR:N	2.31	0.44
28:I5:162:LEU:HG	28:I5:166:PHE:HE2	1.82	0.44
5:a6:42:ARG:HB2	5:a6:67:LEU:HD11	1.98	0.44
12:J6:132:GLN:HB2	21:i6:562:U:H4'	1.99	0.44
14:N6:30:SER:O	14:N6:33:VAL:HG22	2.17	0.44
17:Y6:37:LYS:O	17:Y6:41:ARG:HG2	2.17	0.44
21:i6:212:C:O5'	21:i6:212:C:C6	2.70	0.44
21:i6:327:G:H1'	21:i6:328:U:O4'	2.18	0.44
21:i6:1334:G:H2'	21:i6:1335:G:O4'	2.17	0.44
22:A6:22:GLY:O	22:A6:24:HIS:N	2.46	0.44
23:B6:214:LYS:HD3	23:B6:216:LYS:HD2	2.00	0.44
26:F6:133:THR:HG21	26:F6:135:ARG:NE	2.32	0.44
33:R6:58:MET:HG3	33:R6:61:ILE:CD1	2.41	0.44
36:k1:176:HIS:C	36:k1:178:LYS:N	2.73	0.44
36:k3:83:ARG:HG2	36:k3:175:TRP:CZ3	2.52	0.44
36:k4:86:HIS:CE1	36:k4:141:HIS:CB	2.81	0.44
36:k6:79:TYR:CE1	36:k6:131:ILE:HG12	2.53	0.44
37:l1:118:ALA:O	37:l1:119:LYS:HB3	2.16	0.44
37:l2:137:PHE:CD1	37:l2:137:PHE:O	2.71	0.44
37:l3:120:ILE:O	37:l3:127:TYR:HA	2.17	0.44
37:l4:164:ILE:O	37:l4:165:ILE:CD1	2.53	0.44
37:l4:179:GLN:CG	37:l4:180:GLU:N	2.59	0.44
3:V1:24:ILE:HG23	3:V1:28:ASP:HB3	1.99	0.44
7:d1:30:LEU:HG	7:d1:38:MET:O	2.17	0.44
8:f1:80:ARG:CD	21:i1:1509:U:O4	2.66	0.44
10:C1:207:ALA:O	10:C1:210:PRO:HD2	2.17	0.44
11:G1:159:ARG:HB3	11:G1:172:LYS:HB3	1.99	0.44
21:i1:851:C:H5''	21:i1:852:G:O4'	2.18	0.44
21:i1:1103:C:N3	21:i1:1130:G:N2	2.64	0.44
21:i1:1144:A:H2'	21:i1:1145:A:C8	2.53	0.44
21:i1:1334:G:H2'	21:i1:1335:G:O4'	2.18	0.44
28:I1:193:LYS:O	28:I1:196:GLU:HG2	2.17	0.44
29:K1:24:LYS:HA	29:K1:66:HIS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T2:99:VAL:O	1:T2:103:VAL:HG23	2.17	0.44
3:V2:60:ARG:HH12	22:A2:158:ASP:HB3	1.81	0.44
8:f2:78:LYS:CE	21:i2:1328:G:OP1	2.65	0.44
12:J2:110:LEU:HB2	12:J2:147:PHE:O	2.18	0.44
14:N2:133:ARG:HH21	30:L2:154:GLN:HG3	1.81	0.44
15:O2:84:ARG:HA	15:O2:87:GLU:OE2	2.18	0.44
18:Z2:41:ARG:CD	21:i4:211:G:OP1	2.60	0.44
18:Z2:92:LEU:HA	18:Z2:97:ILE:HB	1.99	0.44
18:Z2:112:ASN:O	18:Z2:113:THR:OG1	2.33	0.44
21:i2:185:G:H8	21:i2:185:G:OP2	2.01	0.44
21:i2:535:G:N3	21:i2:535:G:H2'	2.32	0.44
21:i2:735:C:C6	21:i2:735:C:O5'	2.71	0.44
21:i2:1182:A:OP1	35:j2:18:ARG:NH1	2.44	0.44
24:D2:64:ARG:HD3	29:K2:95:ARG:NH2	2.24	0.44
24:D2:209:SER:HB2	33:R2:40:ILE:HB	2.00	0.44
25:E2:31:PRO:HB3	25:E2:43:PRO:HB3	2.00	0.44
28:I2:123:ARG:NE	15:O5:64:ALA:HA	2.33	0.44
29:K2:93:THR:CB	29:K2:95:ARG:NH1	2.79	0.44
9:g3:270:LEU:HD11	9:g3:310:TRP:NE1	2.33	0.44
10:C3:65:LYS:N	10:C3:277:HIS:CE1	2.86	0.44
10:C3:196:ILE:CG2	10:C3:223:TYR:HB2	2.46	0.44
11:G3:223:LYS:O	11:G3:227:GLN:HG2	2.17	0.44
12:J3:17:ARG:HE	21:i3:3:C:N4	2.16	0.44
21:i3:180:G:O2'	21:i3:181:A:H2'	2.17	0.44
21:i3:367:U:OP1	28:I3:11:ARG:NH2	2.49	0.44
21:i3:563:G:O6	21:i3:564:A:N6	2.50	0.44
21:i3:1005:G:OP1	23:B3:162:ARG:NH1	2.50	0.44
21:i3:1069:U:P	36:k3:18:LYS:HZ1	2.35	0.44
21:i3:1377:U:H2'	22:A3:105:PRO:HG2	1.98	0.44
21:i3:1537:A:H2	21:i3:1597:C:N3	2.14	0.44
21:i3:1583:C:H3'	21:i3:1584:G:H8	1.83	0.44
21:i3:1829:G:OP1	37:l3:167:GLN:HB3	2.18	0.44
22:A3:215:GLN:HE21	33:R3:80:ARG:NH1	2.15	0.44
24:D3:104:SER:HB3	24:D3:108:LYS:HE2	1.99	0.44
25:E3:31:PRO:HB3	25:E3:43:PRO:HB3	2.00	0.44
26:F3:173:LEU:O	26:F3:177:LEU:HG	2.17	0.44
27:H3:135:PHE:HB3	27:H3:136:PRO:HD3	1.99	0.44
34:S3:48:ALA:HB2	34:S3:70:ILE:HD12	2.00	0.44
2:U4:17:ILE:HB	2:U4:94:PRO:HA	1.99	0.44
2:U4:26:SER:HB2	2:U4:32:LEU:HD22	1.99	0.44
5:a4:92:ARG:HB3	21:i4:1865:C:O2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f4:97:LYS:HG2	21:i4:1288:U:OP2	2.18	0.44
11:G4:65:GLN:NE2	21:i4:1746:U:C1'	2.80	0.44
12:J4:114:VAL:HB	12:J4:126:ALA:HB1	1.99	0.44
21:i4:535:G:H2'	21:i4:535:G:N3	2.31	0.44
21:i4:628:A:N6	24:D4:145:GLN:HG2	2.23	0.44
21:i4:1144:A:H2'	21:i4:1145:A:C8	2.53	0.44
21:i4:1535:U:H5'	21:i4:1536:G:C8	2.52	0.44
21:i4:1747:C:H42	21:i4:1787:G:H1	1.65	0.44
21:i4:1842:C:C2'	35:j4:4:LYS:HZ1	2.31	0.44
24:D4:74:GLN:NE2	24:D4:84:VAL:O	2.50	0.44
25:E4:38:LEU:HA	25:E4:41:CYS:SG	2.58	0.44
26:F4:55:ARG:HG2	26:F4:62:ARG:NH1	2.33	0.44
1:T5:133:ARG:NH2	21:i5:1420:G:H5'	2.31	0.44
5:a5:99:PRO:CB	5:a5:101:PHE:CE2	2.87	0.44
7:d5:29:GLY:O	7:d5:40:ARG:N	2.50	0.44
8:f5:114:ILE:HD13	13:M5:68:LEU:HD23	2.00	0.44
11:G5:67:VAL:N	11:G5:100:CYS:SG	2.90	0.44
18:Z5:111:ARG:O	18:Z5:113:THR:N	2.50	0.44
21:i5:368:U:H3	36:k4:110:ASN:H	1.66	0.44
21:i5:1144:A:H2'	21:i5:1145:A:C8	2.53	0.44
21:i5:1535:U:H5'	21:i5:1536:G:C8	2.52	0.44
21:i5:1689:C:O3'	21:i5:1690:U:H5'	2.18	0.44
21:i5:1849:G:N1	37:l5:149:ALA:O	2.48	0.44
24:D5:53:THR:HG23	24:D5:90:LYS:HE3	1.98	0.44
33:R5:21:TYR:HD2	33:R5:72:LYS:CD	2.18	0.44
1:T6:27:LYS:HG3	1:T6:29:LYS:HG2	1.99	0.44
9:g6:89:LEU:O	9:g6:97:THR:HA	2.18	0.44
9:g6:185:LYS:O	24:D6:227:LYS:N	2.22	0.44
21:i6:216:C:H41	21:i6:309:G:H1	1.65	0.44
21:i6:379:C:OP2	28:I6:181:GLN:NE2	2.49	0.44
21:i6:695:C:H6	21:i6:695:C:H5''	1.83	0.44
21:i6:1058:A:H2'	21:i6:1059:G:O4'	2.18	0.44
21:i6:1078:C:H2'	21:i6:1079:C:C6	2.52	0.44
21:i6:1702:G:O5'	21:i6:1702:G:C8	2.70	0.44
30:L6:132:ARG:O	30:L6:134:LEU:N	2.50	0.44
33:R6:77:GLU:CD	33:R6:81:ARG:HG3	2.43	0.44
36:k1:146:GLY:N	36:k1:167:ILE:CG1	2.77	0.44
36:k4:95:GLN:CD	36:k4:164:ILE:HD11	2.41	0.44
36:k6:83:ARG:CZ	36:k6:175:TRP:CE3	3.00	0.44
37:l3:142:LYS:CG	37:l3:146:ARG:HE	2.23	0.44
2:U1:61:LEU:HD22	7:d1:34:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:c1:26:GLN:OE1	21:i1:1219:C:O2'	2.23	0.44
13:M1:36:ARG:HH21	21:i1:1310:U:H6	1.59	0.44
14:N1:30:SER:O	14:N1:33:VAL:HG22	2.17	0.44
15:O1:135:ILE:O	21:i1:943:U:O2'	2.35	0.44
17:Y1:17:LEU:HD22	25:E1:69:PHE:CE1	2.49	0.44
21:i1:180:G:O2'	21:i1:181:A:H2'	2.17	0.44
21:i1:316:G:O5'	21:i1:316:G:C8	2.70	0.44
21:i1:1235:G:H1	21:i1:1523:C:N4	2.14	0.44
21:i1:1325:G:H4'	21:i1:1510:G:H4'	1.99	0.44
21:i1:1473:G:N2	21:i1:1475:G:H8	2.15	0.44
21:i1:1565:C:H2'	21:i1:1566:G:O4'	2.16	0.44
21:i1:1572:C:H2'	21:i1:1573:G:O4'	2.17	0.44
21:i1:1851:A:OP1	35:j1:9:ARG:NH1	2.48	0.44
24:D1:64:ARG:HE	29:K1:95:ARG:NE	2.15	0.44
25:E1:61:VAL:HG12	25:E1:80:ILE:HG23	2.00	0.44
31:P1:12:PHE:HE2	21:i3:1764:G:C4'	2.15	0.44
2:U2:17:ILE:HG23	2:U2:95:SER:N	1.90	0.44
4:X2:90:CYS:HB3	4:X2:130:LEU:HD11	1.98	0.44
5:a2:102:ARG:N	5:a2:102:ARG:CD	2.73	0.44
9:g2:62:HIS:CE1	9:g2:82:SER:HA	2.52	0.44
12:J2:127:ARG:NH1	21:i2:523:A:OP1	2.51	0.44
21:i2:822:U:H5''	21:i2:824:C:P	2.58	0.44
21:i2:873:G:H21	27:H2:114:GLN:CD	2.26	0.44
21:i2:1044:G:H8	21:i2:1044:G:OP2	2.01	0.44
21:i2:1318:G:C2	21:i2:1319:U:C2	3.06	0.44
21:i2:1535:U:H5'	21:i2:1536:G:C8	2.52	0.44
24:D2:64:ARG:HE	29:K2:95:ARG:NE	2.15	0.44
26:F2:19:LEU:H	26:F2:48:TYR:HE1	1.66	0.44
26:F2:39:ILE:HG23	26:F2:68:ILE:HG21	1.99	0.44
31:P2:121:ILE:HD11	31:P2:123:TYR:HE2	0.58	0.44
4:X3:90:CYS:HB3	4:X3:130:LEU:HD11	1.98	0.44
5:a3:102:ARG:N	5:a3:102:ARG:CD	2.73	0.44
12:J3:7:TRP:CD1	21:i3:38:A:H4'	2.53	0.44
12:J3:39:ASN:HB2	21:i3:642:U:P	2.58	0.44
12:J3:132:GLN:HB2	21:i3:562:U:H4'	1.99	0.44
13:M3:40:LYS:HZ3	21:i3:1310:U:H5'	1.74	0.44
21:i3:212:C:O5'	21:i3:212:C:C6	2.70	0.44
21:i3:399:C:C2	30:L3:106:HIS:HD2	2.36	0.44
21:i3:800:U:H3	21:i3:865:A:H2	1.62	0.44
21:i3:1144:A:H2'	21:i3:1145:A:C8	2.53	0.44
21:i3:1280:G:C2	21:i3:1281:G:H1'	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1406:G:H2'	21:i3:1407:U:O4'	2.18	0.44
21:i3:1465:A:OP1	33:R3:56:HIS:NE2	2.45	0.44
21:i3:1753:C:C6	21:i3:1753:C:O5'	2.71	0.44
24:D3:209:SER:HB2	33:R3:40:ILE:HB	2.00	0.44
25:E3:61:VAL:HG12	25:E3:80:ILE:HG23	2.00	0.44
26:F3:70:GLU:O	26:F3:73:THR:OG1	2.30	0.44
33:R3:58:MET:O	33:R3:61:ILE:HG13	2.18	0.44
33:R3:77:GLU:HG2	33:R3:81:ARG:CG	2.44	0.44
33:R3:80:ARG:C	33:R3:82:ASP:N	2.76	0.44
3:V4:60:ARG:HH12	22:A4:158:ASP:HB3	1.81	0.44
4:X4:48:LYS:HG3	21:i4:483:C:H5''	1.99	0.44
12:J4:17:ARG:HE	21:i4:3:C:N4	2.16	0.44
12:J4:75:ASN:HB3	25:E4:252:ARG:NH2	2.32	0.44
14:N4:55:ARG:HA	14:N4:60:VAL:O	2.18	0.44
21:i4:180:G:O2'	21:i4:181:A:N3	2.50	0.44
21:i4:692:G:H3'	21:i4:693:A:C8	2.50	0.44
21:i4:1096:G:H2'	21:i4:1097:G:H8	1.81	0.44
21:i4:1241:A:HO2'	21:i4:1266:C:HO2'	1.62	0.44
21:i4:1334:G:H2'	21:i4:1335:G:O4'	2.17	0.44
21:i4:1572:C:H2'	21:i4:1573:G:O4'	2.17	0.44
22:A4:210:ILE:C	22:A4:212:LYS:N	2.75	0.44
25:E4:31:PRO:HB3	25:E4:43:PRO:HB3	2.00	0.44
26:F4:113:VAL:O	26:F4:117:ILE:HG12	2.18	0.44
30:L4:121:GLN:HB3	30:L4:153:LYS:HG3	1.94	0.44
10:C5:227:ARG:NH1	21:i5:656:G:O2'	2.51	0.44
10:C5:267:GLN:C	10:C5:269:PHE:N	2.74	0.44
15:O5:51:GLU:OE2	23:B5:65:ARG:NH2	2.50	0.44
17:Y5:37:LYS:O	17:Y5:41:ARG:HG2	2.18	0.44
21:i5:109:U:H3	21:i5:352:U:H3	1.65	0.44
21:i5:339:A:O2'	21:i5:340:C:O5'	2.35	0.44
21:i5:735:C:H6	21:i5:735:C:C3'	2.29	0.44
21:i5:739:C:C3'	21:i5:746:C:N4	2.81	0.44
21:i5:1078:C:H2'	21:i5:1079:C:C6	2.52	0.44
21:i5:1236:G:H5''	31:P5:133:ILE:CG1	2.34	0.44
21:i5:1298:G:OP1	31:P5:102:PHE:CZ	2.71	0.44
21:i5:1546:G:H21	21:i5:1669:G:N2	2.15	0.44
25:E5:38:LEU:HA	25:E5:41:CYS:SG	2.58	0.44
26:F5:191:LYS:HA	26:F5:194:ASP:CB	2.46	0.44
4:X6:90:CYS:HB3	4:X6:130:LEU:HD11	1.99	0.44
9:g6:178:ASN:OD1	9:g6:183:LYS:HB3	2.17	0.44
12:J6:85:GLY:HA2	12:J6:151:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J6:110:LEU:HD22	12:J6:147:PHE:CD2	2.52	0.44
15:O6:71:PRO:O	15:O6:75:MET:HG3	2.17	0.44
16:W6:74:VAL:HG23	16:W6:126:LEU:O	2.18	0.44
17:Y6:17:LEU:HD22	25:E6:69:PHE:CE1	2.50	0.44
18:Z6:57:LYS:HE2	18:Z6:77:LEU:HD11	1.98	0.44
21:i6:589:G:O3'	21:i6:590:A:H2'	2.18	0.44
21:i6:690:G:N3	21:i6:690:G:C5'	2.73	0.44
21:i6:1005:G:OP1	23:B6:162:ARG:NH1	2.50	0.44
21:i6:1060:A:H4'	21:i6:1061:U:O5'	2.18	0.44
21:i6:1255:G:H5'	21:i6:1256:G:H4'	1.99	0.44
21:i6:1741:U:OP1	28:I6:58:LEU:HD13	2.17	0.44
22:A6:90:PHE:CD1	22:A6:179:ALA:HB2	2.53	0.44
22:A6:183:LEU:HD23	22:A6:186:ARG:HD2	1.99	0.44
25:E6:186:GLY:N	25:E6:189:LEU:HD23	2.32	0.44
27:H6:157:HIS:HB3	27:H6:190:PRO:HG3	2.00	0.44
33:R6:77:GLU:C	33:R6:79:GLU:N	2.76	0.44
36:k1:95:GLN:CG	36:k1:164:ILE:HD13	2.14	0.44
36:k2:7:GLU:CD	36:k2:177:MET:O	2.59	0.44
36:k2:149:LYS:HE2	36:k2:165:GLU:OE1	2.18	0.44
36:k4:140:GLN:CG	36:k4:141:HIS:ND1	2.80	0.44
36:k5:102:ILE:HD12	36:k5:103:LYS:N	2.33	0.44
37:l3:127:TYR:CG	37:l3:169:ASP:HB3	2.53	0.44
37:l5:137:PHE:CD1	37:l5:137:PHE:O	2.71	0.44
5:a1:45:VAL:HG22	5:a1:49:ALA:HB3	2.00	0.44
9:g1:35:SER:OG	9:g1:36:ARG:N	2.51	0.44
12:J1:7:TRP:CD1	21:i1:38:A:H4'	2.53	0.44
12:J1:17:ARG:HE	21:i1:3:C:N4	2.16	0.44
12:J1:110:LEU:HB2	12:J1:147:PHE:O	2.18	0.44
16:W1:28:ARG:NH1	21:i1:921:G:H2'	2.33	0.44
21:i1:61:A:C2	21:i1:334:C:C2'	3.01	0.44
21:i1:583:C:H5'	21:i1:584:G:OP2	2.17	0.44
21:i1:1060:A:H4'	21:i1:1061:U:O5'	2.18	0.44
21:i1:1397:U:O4	32:Q1:12:VAL:HA	2.18	0.44
21:i1:1421:A:H62	21:i1:1422:G:N2	2.15	0.44
21:i1:1749:G:N1	21:i1:1784:G:O6	2.51	0.44
21:i1:1750:C:O5'	21:i1:1750:C:C6	2.70	0.44
26:F1:19:LEU:H	26:F1:48:TYR:HE1	1.66	0.44
31:P1:26:LEU:CD2	31:P1:88:GLU:HG3	2.48	0.44
34:S1:63:GLU:HA	34:S1:66:ARG:HG2	2.00	0.44
1:T2:27:LYS:HG3	1:T2:29:LYS:HG2	1.99	0.44
3:V2:24:ILE:HG23	3:V2:28:ASP:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X2:101:LEU:O	4:X2:123:VAL:HG22	2.18	0.44
14:N2:55:ARG:HA	14:N2:60:VAL:O	2.18	0.44
20:e2:47:PRO:HD2	20:e2:48:THR:H	1.83	0.44
21:i2:795:A:N6	27:H2:109:ARG:HH22	2.12	0.44
21:i2:980:A:HO2'	21:i2:981:A:P	2.40	0.44
21:i2:1244:U:H2'	21:i2:1245:G:C8	2.52	0.44
21:i2:1280:G:C2	21:i2:1281:G:H1'	2.53	0.44
21:i2:1473:G:N2	21:i2:1475:G:H8	2.15	0.44
21:i2:1776:G:N3	21:i2:1776:G:C5'	2.73	0.44
21:i2:1848:U:N3	21:i2:1850:A:OP2	2.51	0.44
24:D2:92:ALA:O	24:D2:93:THR:OG1	2.26	0.44
26:F2:14:THR:HA	26:F2:15:PRO:HA	1.72	0.44
27:H2:88:SER:O	27:H2:90:LYS:N	2.42	0.44
2:U3:34:LYS:HA	2:U3:37:ALA:HB3	1.99	0.44
11:G3:180:VAL:HG22	21:i3:143:U:H5	1.83	0.44
13:M3:36:ARG:HH21	21:i3:1310:U:H6	1.59	0.44
16:W3:28:ARG:NH1	21:i3:921:G:H2'	2.33	0.44
16:W3:111:MET:HE1	16:W3:119:LYS:HG3	1.99	0.44
21:i3:315:C:O5'	21:i3:315:C:C6	2.71	0.44
21:i3:375:U:OP2	30:L3:59:LYS:NZ	2.41	0.44
21:i3:455:A:H4'	21:i3:1736:G:H5'	2.00	0.44
21:i3:496:C:H42	21:i3:506:G:H1	1.65	0.44
21:i3:535:G:N2	21:i3:537:C:H1'	2.33	0.44
21:i3:867:G:H5''	30:L3:150:GLY:H	1.81	0.44
21:i3:1083:A:O2'	21:i3:1858:G:N2	2.44	0.44
21:i3:1298:G:OP1	31:P3:102:PHE:CZ	2.71	0.44
21:i3:1318:G:C2	21:i3:1319:U:C2	3.06	0.44
21:i3:1490:G:H2'	21:i3:1491:G:H8	1.83	0.44
21:i3:1545:A:C6	21:i3:1546:G:C6	3.06	0.44
24:D3:53:THR:HG23	24:D3:90:LYS:HE3	1.98	0.44
24:D3:70:THR:O	24:D3:74:GLN:HG2	2.18	0.44
24:D3:76:ARG:HH21	29:K3:66:HIS:CE1	2.34	0.44
25:E3:19:MET:HE1	25:E3:108:ARG:HH11	1.82	0.44
30:L3:132:ARG:O	30:L3:134:LEU:N	2.50	0.44
9:g4:62:HIS:CE1	9:g4:82:SER:HA	2.52	0.44
13:M4:36:ARG:HE	13:M4:40:LYS:NZ	2.08	0.44
13:M4:125:GLU:O	13:M4:129:LYS:N	2.48	0.44
16:W4:74:VAL:HG23	16:W4:126:LEU:O	2.17	0.44
20:e4:35:ARG:HH12	21:i4:526:A:C5'	2.25	0.44
21:i4:563:G:O6	21:i4:564:A:N6	2.50	0.44
21:i4:1244:U:H2'	21:i4:1245:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1298:G:OP1	31:P4:102:PHE:CZ	2.71	0.44
21:i4:1406:G:H2'	21:i4:1407:U:O4'	2.18	0.44
25:E4:19:MET:HE1	25:E4:108:ARG:HH11	1.82	0.44
26:F4:41:VAL:HG11	26:F4:68:ILE:HG12	2.00	0.44
27:H4:6:ALA:O	27:H4:24:SER:OG	2.26	0.44
27:H4:134:VAL:HG22	27:H4:173:PHE:CD2	2.51	0.44
31:P4:114:HIS:HB3	31:P4:119:PHE:CE2	2.52	0.44
2:U5:19:ARG:CD	2:U5:119:ALA:HB3	2.32	0.44
5:a5:102:ARG:N	5:a5:102:ARG:CD	2.73	0.44
9:g5:191:HIS:CG	9:g5:192:THR:N	2.86	0.44
12:J5:7:TRP:CD1	21:i5:38:A:H4'	2.53	0.44
12:J5:110:LEU:HD22	12:J5:147:PHE:CD2	2.53	0.44
16:W5:28:ARG:NH1	21:i5:921:G:H2'	2.33	0.44
21:i5:185:G:H2'	21:i5:186:C:C6	2.52	0.44
21:i5:912:C:O2'	21:i5:913:A:OP1	2.30	0.44
21:i5:1377:U:O5'	22:A5:102:ARG:NH2	2.51	0.44
21:i5:1522:A:H2	21:i5:1523:C:C6	2.36	0.44
21:i5:1673:U:OP1	32:Q5:79:ALA:N	2.50	0.44
23:B5:214:LYS:HD3	23:B5:216:LYS:HD2	2.00	0.44
27:H5:135:PHE:HB3	27:H5:136:PRO:HD3	1.99	0.44
34:S5:63:GLU:HA	34:S5:66:ARG:HG2	1.99	0.44
1:T6:2:PRO:HA	1:T6:3:GLY:HA3	1.71	0.44
11:G6:58:LYS:HE3	11:G6:105:ASN:HB2	2.00	0.44
14:N6:149:LEU:C	14:N6:149:LEU:HD22	2.43	0.44
16:W6:28:ARG:NH1	21:i6:921:G:H2'	2.33	0.44
21:i6:913:A:N6	27:H6:98:ARG:HB3	2.33	0.44
21:i6:1325:G:N2	21:i6:1504:U:O2	2.50	0.44
21:i6:1358:U:H6	21:i6:1358:U:H5''	1.82	0.44
21:i6:1382:A:H2'	21:i6:1383:A:H5'	1.99	0.44
27:H6:135:PHE:HB3	27:H6:136:PRO:HD3	1.99	0.44
31:P6:15:PHE:HZ	31:P6:17:TYR:HD2	1.65	0.44
31:P6:41:GLN:CD	31:P6:84:ILE:HG21	2.40	0.44
31:P6:44:ARG:HG3	31:P6:44:ARG:NH1	2.33	0.44
36:k1:50:VAL:HG12	36:k1:64:VAL:HG22	2.00	0.44
36:k2:145:VAL:HB	36:k2:167:ILE:HG22	1.16	0.44
36:k3:10:ASN:C	36:k3:56:HIS:ND1	2.75	0.44
36:k3:168:HIS:NE2	36:k3:174:LEU:HB3	2.31	0.44
36:k4:170:LEU:HG	36:k4:171:ASN:N	2.24	0.44
36:k5:94:HIS:CA	36:k5:133:ALA:HB3	2.48	0.44
37:l3:118:ALA:O	37:l3:119:LYS:HB3	2.16	0.44
37:l3:137:PHE:CD1	37:l3:137:PHE:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l6:128:VAL:HG13	37:l6:166:ILE:CB	2.41	0.44
37:l6:139:ILE:HG22	37:l6:140:ASP:H	1.83	0.44
2:U1:17:ILE:HB	2:U1:94:PRO:HA	1.99	0.44
8:f1:87:THR:HG22	8:f1:90:LYS:CE	2.15	0.44
10:C1:115:GLN:HG3	21:i1:1203:G:H1'	1.99	0.44
11:G1:208:GLU:OE2	25:E1:168:LYS:HE2	2.18	0.44
11:G1:209:TYR:HA	11:G1:213:LEU:HB3	1.99	0.44
13:M1:95:ASP:HB2	13:M1:99:LYS:HB2	2.00	0.44
16:W1:88:LYS:NZ	21:i1:420:G:OP1	2.45	0.44
21:i1:327:G:H1'	21:i1:328:U:O4'	2.18	0.44
21:i1:480:G:H2'	21:i1:481:C:O4'	2.18	0.44
21:i1:1058:A:H2'	21:i1:1059:G:O4'	2.18	0.44
21:i1:1522:A:H2	21:i1:1523:C:C6	2.36	0.44
21:i1:1777:G:H2'	21:i1:1778:C:N1	2.33	0.44
24:D1:74:GLN:NE2	24:D1:84:VAL:O	2.50	0.44
25:E1:19:MET:HE1	25:E1:108:ARG:HH11	1.82	0.44
25:E1:127:ARG:NE	25:E1:142:HIS:HA	2.33	0.44
26:F1:59:LYS:HB2	26:F1:62:ARG:HD3	2.00	0.44
27:H1:72:PHE:O	27:H1:76:GLN:N	2.51	0.44
28:I1:193:LYS:NZ	21:i6:969:U:O2	2.51	0.44
28:I1:203:LYS:CE	21:i6:968:U:OP2	2.66	0.44
31:P1:12:PHE:CZ	21:i3:1764:G:C3'	2.91	0.44
31:P1:15:PHE:HZ	31:P1:17:TYR:HD2	1.65	0.44
33:R1:88:VAL:O	33:R1:92:ASP:HB2	2.18	0.44
34:S1:107:LEU:O	34:S1:111:LEU:HG	2.18	0.44
34:S1:123:LEU:HD22	34:S1:127:TRP:CZ2	2.53	0.44
1:T2:3:GLY:O	1:T2:4:VAL:HG12	2.17	0.44
4:X2:15:SER:O	4:X2:18:ARG:HG2	2.18	0.44
9:g2:68:ASP:O	9:g2:81:GLY:N	2.30	0.44
12:J2:39:ASN:HB2	21:i2:642:U:P	2.58	0.44
14:N2:149:LEU:C	14:N2:149:LEU:HD22	2.43	0.44
21:i2:141:A:O2'	21:i2:178:C:N3	2.37	0.44
21:i2:739:C:C6	21:i2:746:C:N4	2.86	0.44
21:i2:970:G:H21	28:I4:200:ARG:HG2	1.77	0.44
21:i2:1058:A:H2'	21:i2:1059:G:O4'	2.18	0.44
21:i2:1479:G:H2'	21:i2:1480:A:O4'	2.17	0.44
22:A2:190:SER:HB2	22:A2:193:HIS:HB3	1.99	0.44
23:B2:128:LYS:HG3	23:B2:129:THR:O	2.18	0.44
26:F2:182:LYS:O	26:F2:184:SER:N	2.41	0.44
29:K2:59:LYS:O	29:K2:70:TYR:N	2.37	0.44
33:R2:68:GLY:HA3	33:R2:69:ILE:HA	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X3:51:VAL:HG21	4:X3:94:ILE:HD11	1.99	0.44
7:d3:30:LEU:HG	7:d3:38:MET:O	2.17	0.44
8:f3:99:LYS:HB2	21:i3:1285:G:H21	1.71	0.44
10:C3:273:LEU:CG	10:C3:280:VAL:CG1	2.65	0.44
12:J3:85:GLY:HA2	12:J3:151:LEU:HD22	1.99	0.44
14:N3:84:LEU:HA	14:N3:135:LEU:HD23	1.99	0.44
20:e3:47:PRO:HD2	20:e3:48:THR:H	1.83	0.44
21:i3:822:U:H5''	21:i3:824:C:P	2.58	0.44
21:i3:873:G:H21	27:H3:114:GLN:CD	2.26	0.44
21:i3:1058:A:H2'	21:i3:1059:G:O4'	2.18	0.44
21:i3:1522:A:H2	21:i3:1523:C:C6	2.36	0.44
21:i3:1848:U:N3	21:i3:1850:A:OP2	2.51	0.44
33:R3:80:ARG:CG	33:R3:80:ARG:NH1	2.80	0.44
34:S3:108:ARG:O	34:S3:112:GLU:HG2	2.18	0.44
2:U4:34:LYS:HA	2:U4:37:ALA:HB3	1.99	0.44
7:d4:7:TYR:HE2	7:d4:9:SER:HB2	1.83	0.44
9:g4:191:HIS:CG	9:g4:192:THR:N	2.86	0.44
10:C4:267:GLN:C	10:C4:269:PHE:N	2.74	0.44
13:M4:36:ARG:HH21	21:i4:1310:U:H6	1.59	0.44
14:N4:148:ALA:C	14:N4:149:LEU:HD13	2.42	0.44
17:Y4:37:LYS:O	17:Y4:41:ARG:HG2	2.18	0.44
18:Z4:57:LYS:HE2	18:Z4:77:LEU:HD11	1.99	0.44
20:e4:11:LYS:HB3	20:e4:11:LYS:HZ1	1.82	0.44
21:i4:1397:U:O4	32:Q4:12:VAL:HA	2.18	0.44
21:i4:1702:G:O5'	21:i4:1702:G:C8	2.71	0.44
22:A4:80:ARG:HH22	22:A4:166:LYS:HG2	1.82	0.44
22:A4:190:SER:HB2	22:A4:193:HIS:HB3	1.99	0.44
34:S4:107:LEU:O	34:S4:111:LEU:HG	2.18	0.44
9:g5:110:SER:HB3	9:g5:153:CYS:HA	2.00	0.44
11:G5:159:ARG:HB3	11:G5:172:LYS:HB3	1.99	0.44
11:G5:190:ARG:NH1	21:i5:332:G:C8	2.85	0.44
12:J5:169:ARG:NH2	12:J5:170:PRO:HG2	2.33	0.44
21:i5:76:U:O2'	21:i5:78:C:OP2	2.25	0.44
21:i5:480:G:H2'	21:i5:481:C:O4'	2.18	0.44
21:i5:692:G:OP1	21:i5:692:G:H4'	2.18	0.44
21:i5:1328:G:H1	21:i5:1501:C:N4	2.16	0.44
21:i5:1406:G:H2'	21:i5:1407:U:O4'	2.18	0.44
21:i5:1708:C:O2'	37:l5:151:LYS:HA	2.17	0.44
22:A5:183:LEU:HD23	22:A5:186:ARG:HD2	1.99	0.44
25:E5:148:ARG:HE	25:E5:149:TYR:HE2	1.66	0.44
33:R5:88:VAL:O	33:R5:92:ASP:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S5:123:LEU:HD22	34:S5:127:TRP:CZ2	2.53	0.44
4:X6:125:VAL:O	4:X6:127:ASN:N	2.51	0.44
8:f6:105:TYR:CD2	8:f6:106:TYR:CD2	2.96	0.44
9:g6:110:SER:HB3	9:g6:153:CYS:HA	2.00	0.44
9:g6:270:LEU:HD11	9:g6:310:TRP:NE1	2.33	0.44
11:G6:164:LYS:HB2	21:i6:67:C:N4	2.33	0.44
12:J6:39:ASN:HB2	21:i6:642:U:P	2.58	0.44
13:M6:95:ASP:HB2	13:M6:99:LYS:HB2	2.00	0.44
17:Y6:28:LEU:HG	17:Y6:30:PRO:HD3	2.00	0.44
20:e6:49:PHE:CD1	20:e6:49:PHE:O	2.71	0.44
21:i6:12:U:H4'	21:i6:1357:A:H5'	1.99	0.44
21:i6:367:U:OP1	28:I6:11:ARG:NH2	2.49	0.44
21:i6:692:G:OP1	21:i6:692:G:H4'	2.18	0.44
21:i6:822:U:H5''	21:i6:824:C:P	2.58	0.44
21:i6:932:G:O2'	21:i6:934:G:OP2	2.24	0.44
21:i6:1141:G:H1	21:i6:1146:C:H42	1.66	0.44
21:i6:1143:A:H4'	21:i6:1355:C:C2	2.52	0.44
21:i6:1238:U:C4	21:i6:1239:U:C2	3.06	0.44
21:i6:1280:G:C2	21:i6:1281:G:H1'	2.53	0.44
21:i6:1355:C:O5'	21:i6:1355:C:C6	2.71	0.44
21:i6:1747:C:H42	21:i6:1787:G:H1	1.65	0.44
23:B6:34:LYS:HG2	23:B6:43:ASN:HB3	1.99	0.44
24:D6:70:THR:O	24:D6:74:GLN:HG2	2.18	0.44
26:F6:70:GLU:O	26:F6:73:THR:OG1	2.30	0.44
26:F6:110:GLN:O	26:F6:114:ASN:ND2	2.51	0.44
31:P6:108:LYS:HB3	31:P6:109:PRO:CD	2.40	0.44
36:k4:85:LEU:HD23	36:k4:142:ALA:CB	2.48	0.44
37:l1:137:PHE:CD1	37:l1:137:PHE:O	2.71	0.44
37:l3:139:ILE:HG22	37:l3:140:ASP:H	1.83	0.44
4:X1:125:VAL:O	4:X1:127:ASN:N	2.51	0.44
7:d1:29:GLY:O	7:d1:40:ARG:N	2.50	0.44
9:g1:89:LEU:O	9:g1:97:THR:HA	2.18	0.44
9:g1:191:HIS:CG	9:g1:192:THR:N	2.86	0.44
11:G1:147:LEU:CD1	11:G1:147:LEU:C	2.86	0.44
12:J1:169:ARG:NH2	12:J1:170:PRO:HG2	2.33	0.44
14:N1:4:MET:HE2	14:N1:5:HIS:HE2	1.83	0.44
16:W1:10:ALA:O	16:W1:13:SER:OG	2.24	0.44
21:i1:13:C:O4'	21:i1:1356:G:N3	2.51	0.44
21:i1:24:C:O2'	21:i1:25:A:H2'	2.18	0.44
21:i1:315:C:O5'	21:i1:315:C:C6	2.70	0.44
21:i1:368:U:O2	36:k6:109:ALA:HB1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:837:A:C2	21:i1:839:C:H5''	2.52	0.44
21:i1:968:U:H4'	21:i1:972:A:C1'	2.48	0.44
21:i1:1005:G:OP1	23:B1:162:ARG:NH1	2.50	0.44
21:i1:1044:G:H8	21:i1:1044:G:OP2	2.01	0.44
21:i1:1280:G:C2	21:i1:1281:G:H1'	2.53	0.44
21:i1:1454:A:C5'	33:R1:5:ARG:HH22	2.31	0.44
21:i1:1545:A:C6	21:i1:1546:G:C6	3.06	0.44
22:A1:70:ASN:HA	22:A1:71:PRO:HD2	1.88	0.44
25:E1:38:LEU:HA	25:E1:41:CYS:SG	2.57	0.44
28:I1:200:ARG:HB3	21:i6:970:G:C2	2.52	0.44
5:a2:102:ARG:CB	5:a2:103:PRO:HA	2.40	0.44
11:G2:140:ARG:HA	11:G2:140:ARG:HD3	1.70	0.44
11:G2:143:LYS:HA	21:i2:1776:G:HO2'	1.78	0.44
18:Z2:111:ARG:O	18:Z2:113:THR:N	2.50	0.44
20:e2:31:ARG:CZ	21:i2:525:A:H4'	2.48	0.44
20:e2:45:VAL:CG1	21:i2:535:G:H5'	2.48	0.44
21:i2:692:G:OP1	21:i2:692:G:H4'	2.18	0.44
21:i2:1406:G:H2'	21:i2:1407:U:O4'	2.18	0.44
21:i2:1522:A:H2	21:i2:1523:C:C6	2.36	0.44
22:A2:214:GLU:OE1	33:R2:84:TYR:HD1	1.93	0.44
23:B2:214:LYS:HD3	23:B2:216:LYS:HD2	2.00	0.44
24:D2:104:SER:HB3	24:D2:108:LYS:HE2	1.99	0.44
25:E2:19:MET:HE1	25:E2:108:ARG:HH11	1.82	0.44
26:F2:59:LYS:HB2	26:F2:62:ARG:HD3	2.00	0.44
31:P2:15:PHE:HZ	31:P2:17:TYR:HD2	1.65	0.44
31:P2:15:PHE:CG	31:P2:16:THR:N	2.86	0.44
33:R2:80:ARG:C	33:R2:82:ASP:N	2.76	0.44
34:S2:107:LEU:O	34:S2:111:LEU:HG	2.18	0.44
2:U3:17:ILE:HB	2:U3:94:PRO:HA	1.99	0.44
4:X3:15:SER:O	4:X3:18:ARG:HG2	2.18	0.44
5:a3:92:ARG:HB3	21:i3:1865:C:O2	2.17	0.44
9:g3:162:ASN:O	9:g3:164:ILE:N	2.45	0.44
9:g3:162:ASN:HA	9:g3:163:PRO:HD3	1.87	0.44
9:g3:226:HIS:CE1	24:D3:222:PRO:HG2	2.53	0.44
12:J3:110:LEU:HB2	12:J3:147:PHE:O	2.18	0.44
12:J3:110:LEU:HD22	12:J3:147:PHE:CD2	2.53	0.44
14:N3:4:MET:HE2	14:N3:5:HIS:HE2	1.83	0.44
14:N3:141:TYR:HE1	14:N3:146:ALA:HB1	1.80	0.44
15:O3:84:ARG:HA	15:O3:87:GLU:OE2	2.18	0.44
15:O3:135:ILE:O	21:i3:943:U:O2'	2.35	0.44
16:W3:74:VAL:HG23	16:W3:126:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y3:20:ARG:HH11	17:Y3:74:MET:HA	1.82	0.44
20:e3:49:PHE:CD1	20:e3:49:PHE:O	2.71	0.44
22:A3:90:PHE:CD1	22:A3:179:ALA:HB2	2.52	0.44
22:A3:190:SER:HB2	22:A3:193:HIS:HB3	1.99	0.44
25:E3:36:HIS:ND1	25:E3:41:CYS:HB3	2.33	0.44
26:F3:127:ARG:C	26:F3:137:GLN:HB2	2.42	0.44
28:I3:207:GLY:HA2	36:k1:12:SER:HB3	1.99	0.44
29:K3:93:THR:CB	29:K3:95:ARG:NH1	2.79	0.44
31:P3:108:LYS:HB3	31:P3:109:PRO:CD	2.41	0.44
3:V4:35:ASN:HB3	3:V4:50:PHE:CD1	2.52	0.44
5:a4:6:ARG:HH21	21:i4:1134:G:P	2.39	0.44
11:G4:164:LYS:HB2	21:i4:67:C:N4	2.33	0.44
11:G4:208:GLU:OE2	25:E4:168:LYS:HE2	2.18	0.44
12:J4:110:LEU:HB2	12:J4:147:PHE:O	2.18	0.44
15:O4:84:ARG:HA	15:O4:87:GLU:OE2	2.18	0.44
21:i4:327:G:H1'	21:i4:328:U:O4'	2.18	0.44
21:i4:367:U:OP1	28:I4:11:ARG:NH2	2.49	0.44
21:i4:412:G:O2'	21:i4:812:A:N6	2.51	0.44
21:i4:696:G:H22	21:i4:734:C:C5'	2.29	0.44
21:i4:895:G:H2'	21:i4:896:U:H4'	2.00	0.44
21:i4:996:A:O2'	21:i4:997:A:OP2	2.30	0.44
21:i4:1044:G:H8	21:i4:1044:G:OP2	2.01	0.44
21:i4:1280:G:C2	21:i4:1281:G:H1'	2.53	0.44
24:D4:70:THR:O	24:D4:74:GLN:HG2	2.18	0.44
26:F4:137:GLN:HA	26:F4:203:ASN:CG	2.43	0.44
1:T5:27:LYS:HG3	1:T5:29:LYS:HG2	1.99	0.44
1:T5:99:VAL:O	1:T5:103:VAL:HG23	2.18	0.44
2:U5:38:ASP:CG	2:U5:104:ILE:HD12	2.43	0.44
12:J5:110:LEU:HB2	12:J5:147:PHE:O	2.18	0.44
13:M5:51:VAL:HB	13:M5:109:VAL:HB	2.00	0.44
14:N5:148:ALA:C	14:N5:149:LEU:HD13	2.42	0.44
21:i5:933:G:H1'	21:i5:1001:A:H5''	1.99	0.44
21:i5:1005:G:OP1	23:B5:162:ARG:NH1	2.50	0.44
21:i5:1036:A:H2'	21:i5:1037:G:H5'	1.99	0.44
21:i5:1141:G:H1	21:i5:1146:C:H42	1.66	0.44
21:i5:1163:C:H2'	21:i5:1164:G:C8	2.53	0.44
21:i5:1545:A:C6	21:i5:1546:G:C6	3.06	0.44
24:D5:95:GLY:O	24:D5:97:CYS:N	2.48	0.44
25:E5:36:HIS:ND1	25:E5:41:CYS:HB3	2.33	0.44
31:P5:121:ILE:HD11	31:P5:123:TYR:HE2	0.58	0.44
8:f6:114:ILE:HD13	13:M6:68:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g6:248:LEU:N	9:g6:259:TRP:O	2.30	0.44
11:G6:223:LYS:O	11:G6:227:GLN:HG2	2.17	0.44
12:J6:7:TRP:CD1	21:i6:38:A:H4'	2.53	0.44
12:J6:163:SER:H	12:J6:167:GLY:HA3	1.81	0.44
14:N6:55:ARG:HA	14:N6:60:VAL:O	2.18	0.44
21:i6:1058:A:C2	37:l6:126:LYS:CE	2.95	0.44
21:i6:1144:A:H2'	21:i6:1145:A:C8	2.53	0.44
21:i6:1154:U:OP1	21:i6:1156:U:H5'	2.18	0.44
21:i6:1522:A:H2	21:i6:1523:C:C6	2.36	0.44
25:E6:36:HIS:ND1	25:E6:41:CYS:HB3	2.33	0.44
26:F6:59:LYS:HB2	26:F6:62:ARG:HD3	2.00	0.44
26:F6:113:VAL:O	26:F6:117:ILE:HG12	2.18	0.44
27:H6:69:LEU:HA	27:H6:72:PHE:HD2	1.83	0.44
30:L6:35:ARG:NE	30:L6:50:ALA:O	2.45	0.44
32:Q6:109:LYS:HE2	32:Q6:120:LEU:HD21	1.99	0.44
33:R6:60:ARG:HE	33:R6:66:VAL:HB	1.83	0.44
34:S6:107:LEU:O	34:S6:111:LEU:HG	2.18	0.44
35:j6:5:TRP:CE3	35:j6:5:TRP:CA	3.00	0.44
36:k5:90:PHE:CE1	36:k5:91:ILE:HG23	2.53	0.44
37:l4:137:PHE:CD1	37:l4:137:PHE:O	2.71	0.44
3:V1:50:PHE:HZ	10:C1:267:GLN:HE22	1.60	0.43
9:g1:194:TYR:CE2	9:g1:212:LYS:HB2	2.53	0.43
11:G1:58:LYS:HE3	11:G1:105:ASN:HB2	2.00	0.43
12:J1:37:LEU:HB3	12:J1:38:ARG:H	1.45	0.43
17:Y1:86:GLU:HG3	17:Y1:90:ARG:HB2	2.00	0.43
21:i1:628:A:OP2	21:i1:1501:C:H4'	2.18	0.43
21:i1:1036:A:H2'	21:i1:1037:G:H5'	1.99	0.43
21:i1:1406:G:H2'	21:i1:1407:U:O4'	2.18	0.43
21:i1:1583:C:H3'	21:i1:1584:G:H8	1.83	0.43
22:A1:215:GLN:HE21	33:R1:80:ARG:NH1	2.15	0.43
26:F1:110:GLN:O	26:F1:114:ASN:ND2	2.51	0.43
31:P1:12:PHE:HZ	21:i3:1764:G:C3'	2.22	0.43
2:U2:38:ASP:CG	2:U2:104:ILE:HD12	2.43	0.43
4:X2:55:VAL:HG21	20:e2:2:VAL:CG1	2.32	0.43
9:g2:47:ARG:HA	9:g2:52:TYR:CD1	2.53	0.43
9:g2:84:ASP:OD1	9:g2:84:ASP:N	2.50	0.43
9:g2:194:TYR:CE2	9:g2:212:LYS:HB2	2.53	0.43
11:G2:58:LYS:HE3	11:G2:105:ASN:HB2	1.99	0.43
11:G2:189:ARG:NE	21:i2:331:C:H41	2.15	0.43
13:M2:125:GLU:O	13:M2:129:LYS:N	2.48	0.43
14:N2:26:LEU:O	14:N2:26:LEU:HG	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:316:G:C6	21:i2:335:G:N1	2.85	0.43
21:i2:332:G:C8	21:i2:332:G:O5'	2.71	0.43
21:i2:1113:A:H1'	21:i2:1121:G:H1	1.83	0.43
21:i2:1144:A:H2'	21:i2:1145:A:C8	2.53	0.43
21:i2:1239:U:H1'	21:i2:1242:U:C5	2.52	0.43
21:i2:1422:G:H1'	21:i2:1424:G:C8	2.53	0.43
23:B2:21:VAL:HG22	30:L4:31:GLU:HB2	1.35	0.43
33:R2:88:VAL:O	33:R2:92:ASP:HB2	2.18	0.43
1:T3:82:ARG:NH1	21:i3:1589:A:O2'	2.51	0.43
8:f3:87:THR:CB	8:f3:90:LYS:CE	2.85	0.43
9:g3:47:ARG:HA	9:g3:52:TYR:CD1	2.53	0.43
12:J3:4:ALA:H	12:J3:5:ARG:NE	2.16	0.43
15:O3:92:ALA:CB	15:O3:125:LYS:HB2	2.48	0.43
16:W3:41:MET:HG2	16:W3:129:PHE:CE2	2.53	0.43
17:Y3:59:GLY:O	21:i3:572:U:H5''	2.18	0.43
21:i3:24:C:O2'	21:i3:25:A:H2'	2.18	0.43
21:i3:186:C:O5'	21:i3:186:C:H6	2.01	0.43
21:i3:604:A:N3	21:i3:639:C:O2'	2.50	0.43
21:i3:692:G:OP1	21:i3:692:G:H4'	2.18	0.43
21:i3:1103:C:N3	21:i3:1130:G:N2	2.65	0.43
21:i3:1154:U:OP1	21:i3:1156:U:H5'	2.18	0.43
23:B3:128:LYS:HG3	23:B3:129:THR:O	2.18	0.43
24:D3:64:ARG:HE	29:K3:95:ARG:NE	2.15	0.43
26:F3:137:GLN:HA	26:F3:203:ASN:CG	2.43	0.43
2:U4:61:LEU:HD22	7:d4:34:TYR:CZ	2.52	0.43
4:X4:9:THR:OG1	4:X4:10:ALA:N	2.51	0.43
5:a4:45:VAL:HG22	5:a4:49:ALA:HB3	1.99	0.43
7:d4:12:ARG:O	7:d4:18:SER:OG	2.30	0.43
12:J4:7:TRP:CD1	21:i4:38:A:H4'	2.53	0.43
13:M4:27:ILE:CG2	29:K4:84:HIS:CD2	3.00	0.43
16:W4:41:MET:HG2	16:W4:129:PHE:CE2	2.53	0.43
17:Y4:10:ARG:HB2	21:i4:833:C:H41	1.83	0.43
21:i4:316:G:O5'	21:i4:316:G:C8	2.71	0.43
21:i4:399:C:C2	30:L4:106:HIS:HD2	2.36	0.43
21:i4:822:U:H5''	21:i4:824:C:P	2.58	0.43
21:i4:1060:A:H4'	21:i4:1061:U:O5'	2.18	0.43
27:H4:69:LEU:HA	27:H4:72:PHE:HD2	1.83	0.43
27:H4:163:GLN:NE2	27:H4:189:PHE:CD2	2.75	0.43
10:C5:65:LYS:N	10:C5:277:HIS:CE1	2.86	0.43
11:G5:58:LYS:HE3	11:G5:105:ASN:HB2	2.00	0.43
11:G5:141:ILE:HG12	11:G5:144:LEU:CD1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J5:127:ARG:NH1	21:i5:523:A:OP1	2.50	0.43
14:N5:26:LEU:O	14:N5:26:LEU:HG	2.18	0.43
15:O5:92:ALA:CB	15:O5:125:LYS:HB2	2.48	0.43
16:W5:74:VAL:HG23	16:W5:126:LEU:O	2.17	0.43
16:W5:80:ASP:OD2	21:i5:803:C:H4'	2.18	0.43
17:Y5:58:PHE:O	17:Y5:72:PHE:N	2.32	0.43
21:i5:535:G:N2	21:i5:537:C:H1'	2.33	0.43
21:i5:563:G:O6	21:i5:564:A:N6	2.50	0.43
21:i5:695:C:H6	21:i5:695:C:H5''	1.82	0.43
21:i5:1490:G:H2'	21:i5:1491:G:H8	1.83	0.43
21:i5:1848:U:N3	21:i5:1850:A:OP2	2.51	0.43
23:B5:167:LYS:O	23:B5:171:ILE:HG12	2.18	0.43
33:R5:61:ILE:HB	33:R5:73:LEU:CD2	2.48	0.43
1:T6:99:VAL:O	1:T6:103:VAL:HG23	2.17	0.43
4:X6:48:LYS:HG3	21:i6:483:C:H5''	1.99	0.43
9:g6:191:HIS:CG	9:g6:192:THR:N	2.86	0.43
13:M6:36:ARG:HE	13:M6:40:LYS:NZ	2.08	0.43
14:N6:39:LYS:HA	14:N6:42:LYS:HZ3	1.81	0.43
16:W6:80:ASP:OD2	21:i6:803:C:H4'	2.19	0.43
18:Z6:92:LEU:HA	18:Z6:97:ILE:HB	1.99	0.43
21:i6:587:A:H1'	21:i6:589:G:H22	1.84	0.43
21:i6:1504:U:H1'	21:i6:1509:U:H5	1.83	0.43
24:D6:209:SER:HB2	33:R6:40:ILE:HB	2.00	0.43
25:E6:126:VAL:HG12	25:E6:139:LEU:HD13	1.98	0.43
25:E6:127:ARG:NE	25:E6:142:HIS:HA	2.33	0.43
26:F6:19:LEU:H	26:F6:48:TYR:HE1	1.66	0.43
27:H6:88:SER:O	27:H6:90:LYS:N	2.43	0.43
33:R6:80:ARG:C	33:R6:82:ASP:N	2.76	0.43
33:R6:98:VAL:HB	33:R6:115:SER:HB3	2.00	0.43
36:k1:58:HIS:O	36:k1:73:GLN:HA	2.17	0.43
36:k3:102:ILE:HD12	36:k3:103:LYS:N	2.33	0.43
36:k5:81:THR:HG22	36:k5:174:LEU:CD2	2.47	0.43
36:k6:149:LYS:HE3	36:k6:165:GLU:OE1	2.18	0.43
37:l3:136:THR:HA	37:l3:137:PHE:HA	1.78	0.43
37:l6:137:PHE:CD1	37:l6:137:PHE:O	2.71	0.43
1:T1:82:ARG:HH12	21:i1:1590:C:P	2.42	0.43
2:U1:86:LYS:O	2:U1:87:ARG:NH2	2.44	0.43
5:a1:45:VAL:HG11	5:a1:64:LEU:HD21	2.00	0.43
8:f1:97:LYS:HG2	21:i1:1288:U:OP2	2.18	0.43
8:f1:99:LYS:CB	21:i1:1285:G:C2	2.81	0.43
9:g1:110:SER:HB3	9:g1:153:CYS:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g1:162:ASN:HA	9:g1:163:PRO:HD3	1.88	0.43
13:M1:111:VAL:HG12	13:M1:114:TYR:CE1	2.50	0.43
16:W1:12:LYS:NZ	21:i1:1153:C:OP1	2.48	0.43
16:W1:41:MET:HG2	16:W1:129:PHE:CE2	2.53	0.43
17:Y1:10:ARG:HB2	21:i1:833:C:H41	1.83	0.43
21:i1:399:C:C2	30:L1:106:HIS:HD2	2.36	0.43
21:i1:467:G:H2'	21:i1:468:A:H8	1.83	0.43
21:i1:795:A:N6	27:H1:109:ARG:HH22	2.13	0.43
21:i1:822:U:H5''	21:i1:824:C:P	2.58	0.43
21:i1:1113:A:H1'	21:i1:1121:G:H1	1.84	0.43
21:i1:1244:U:H2'	21:i1:1245:G:C8	2.52	0.43
23:B1:221:PRO:C	23:B1:223:PHE:H	2.26	0.43
24:D1:209:SER:HB2	33:R1:40:ILE:HB	2.00	0.43
27:H1:69:LEU:HA	27:H1:72:PHE:HD2	1.83	0.43
33:R1:80:ARG:CG	33:R1:80:ARG:NH1	2.80	0.43
34:S1:48:ALA:HB2	34:S1:70:ILE:HD12	2.00	0.43
4:X2:52:LEU:HD22	4:X2:53:GLU:HG2	1.98	0.43
8:f2:114:ILE:HD13	13:M2:68:LEU:HD23	2.00	0.43
9:g2:35:SER:OG	9:g2:36:ARG:N	2.51	0.43
9:g2:226:HIS:CE1	24:D2:222:PRO:HG2	2.53	0.43
11:G2:208:GLU:OE2	25:E2:168:LYS:HE2	2.18	0.43
12:J2:110:LEU:HD22	12:J2:147:PHE:CD2	2.53	0.43
12:J2:122:SER:OG	21:i2:526:A:O3'	2.35	0.43
13:M2:51:VAL:HB	13:M2:109:VAL:HB	2.00	0.43
14:N2:83:ASP:HB3	14:N2:150:VAL:O	2.18	0.43
14:N2:137:PRO:HD3	30:L2:154:GLN:NE2	2.33	0.43
15:O2:84:ARG:HH22	30:L4:27:GLU:CD	2.26	0.43
15:O2:92:ALA:CB	15:O2:125:LYS:HB2	2.48	0.43
16:W2:41:MET:HG2	16:W2:129:PHE:CE2	2.54	0.43
21:i2:186:C:H2'	21:i2:187:G:H8	1.83	0.43
21:i2:558:G:C8	21:i2:558:G:P	3.06	0.43
21:i2:1060:A:H4'	21:i2:1061:U:O5'	2.18	0.43
21:i2:1490:G:H2'	21:i2:1491:G:H8	1.83	0.43
22:A2:152:SER:HA	22:A2:153:PRO:HD2	1.91	0.43
22:A2:183:LEU:HD23	22:A2:186:ARG:HD2	1.99	0.43
30:L2:132:ARG:O	30:L2:134:LEU:N	2.50	0.43
9:g3:35:SER:OG	9:g3:36:ARG:N	2.51	0.43
10:C3:115:GLN:HG3	21:i3:1203:G:H1'	1.99	0.43
13:M3:27:ILE:CG2	29:K3:84:HIS:CD2	3.00	0.43
18:Z3:112:ASN:O	18:Z3:113:THR:OG1	2.33	0.43
21:i3:587:A:H1'	21:i3:589:G:H22	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:688:U:C1'	21:i3:689:U:P	3.01	0.43
21:i3:872:A:O2'	21:i3:873:G:H8	2.01	0.43
21:i3:1707:U:O2	37:l3:153:SER:CB	2.65	0.43
26:F3:19:LEU:H	26:F3:48:TYR:HE1	1.66	0.43
26:F3:49:LEU:HD11	32:Q3:49:TYR:HB3	2.00	0.43
4:X4:15:SER:O	4:X4:18:ARG:HG2	2.18	0.43
9:g4:6:THR:O	9:g4:8:ARG:NH1	2.51	0.43
12:J4:169:ARG:NH2	12:J4:170:PRO:HG2	2.33	0.43
13:M4:106:CYS:SG	21:i4:1284:A:C6	3.10	0.43
21:i4:216:C:H41	21:i4:309:G:H1	1.65	0.43
21:i4:565:G:N1	21:i4:586:G:H1'	2.33	0.43
21:i4:1113:A:H1'	21:i4:1121:G:H1	1.83	0.43
21:i4:1454:A:C5'	33:R4:5:ARG:HH22	2.31	0.43
24:D4:135:GLU:CD	24:D4:157:MET:HG2	2.44	0.43
25:E4:103:TYR:HB3	25:E4:107:GLY:HA2	2.00	0.43
26:F4:173:LEU:O	26:F4:177:LEU:HG	2.17	0.43
33:R4:80:ARG:C	33:R4:82:ASP:N	2.76	0.43
33:R4:98:VAL:HB	33:R4:115:SER:HB3	2.00	0.43
9:g5:89:LEU:O	9:g5:97:THR:HA	2.18	0.43
11:G5:68:LEU:O	11:G5:69:THR:OG1	2.28	0.43
12:J5:17:ARG:HE	21:i5:3:C:N4	2.16	0.43
15:O5:84:ARG:HA	15:O5:87:GLU:OE2	2.18	0.43
17:Y5:10:ARG:HB2	21:i5:833:C:H41	1.83	0.43
21:i5:327:G:H1'	21:i5:328:U:O4'	2.18	0.43
21:i5:872:A:O2'	21:i5:873:G:H8	2.02	0.43
21:i5:1060:A:H4'	21:i5:1061:U:O5'	2.18	0.43
24:D5:64:ARG:HE	29:K5:95:ARG:NE	2.15	0.43
24:D5:209:SER:HB2	33:R5:40:ILE:HB	2.00	0.43
31:P5:60:LEU:HD22	31:P5:92:SER:OG	2.17	0.43
34:S5:107:LEU:O	34:S5:111:LEU:HG	2.18	0.43
4:X6:101:LEU:O	4:X6:123:VAL:HG22	2.18	0.43
5:a6:45:VAL:HG11	5:a6:64:LEU:HD21	2.00	0.43
5:a6:100:ARG:C	5:a6:102:ARG:N	2.74	0.43
10:C6:267:GLN:C	10:C6:269:PHE:N	2.74	0.43
11:G6:147:LEU:CD1	11:G6:147:LEU:C	2.86	0.43
12:J6:110:LEU:HB2	12:J6:147:PHE:O	2.18	0.43
13:M6:36:ARG:HH21	21:i6:1310:U:H6	1.58	0.43
14:N6:43:LYS:HG2	14:N6:43:LYS:H	1.48	0.43
15:O6:84:ARG:HA	15:O6:87:GLU:OE2	2.18	0.43
21:i6:290:U:O2'	21:i6:292:A:N7	2.49	0.43
21:i6:583:C:H5'	21:i6:584:G:OP2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1163:C:H2'	21:i6:1164:G:C8	2.53	0.43
21:i6:1350:U:H3	21:i6:1379:A:H61	1.66	0.43
23:B6:125:VAL:HG12	23:B6:169:MET:HE3	1.99	0.43
24:D6:64:ARG:HE	29:K6:95:ARG:NE	2.15	0.43
25:E6:61:VAL:HG12	25:E6:80:ILE:HG23	2.00	0.43
32:Q6:4:LYS:HZ2	32:Q6:99:TYR:HB3	1.81	0.43
36:k2:86:HIS:NE2	36:k2:141:HIS:C	2.76	0.43
36:k3:106:LEU:CD2	36:k3:169:TYR:CD1	3.00	0.43
36:k4:102:ILE:HD12	36:k4:103:LYS:N	2.33	0.43
36:k5:50:VAL:HG12	36:k5:64:VAL:HG22	2.00	0.43
36:k6:95:GLN:O	36:k6:97:VAL:HG13	2.18	0.43
1:T1:82:ARG:HG3	1:T1:90:SER:HB2	2.01	0.43
4:X1:101:LEU:O	4:X1:123:VAL:HG22	2.18	0.43
8:f1:80:ARG:HH21	21:i1:1503:C:H1'	1.79	0.43
9:g1:226:HIS:CE1	24:D1:222:PRO:HG2	2.53	0.43
12:J1:110:LEU:HD22	12:J1:147:PHE:CD2	2.53	0.43
14:N1:149:LEU:C	14:N1:149:LEU:HD22	2.43	0.43
15:O1:84:ARG:HA	15:O1:87:GLU:OE2	2.18	0.43
21:i1:186:C:C6	21:i1:186:C:C3'	3.02	0.43
21:i1:212:C:O5'	21:i1:212:C:C6	2.70	0.43
21:i1:535:G:H22	21:i1:537:C:H1'	1.82	0.43
21:i1:873:G:H21	27:H1:114:GLN:CD	2.25	0.43
21:i1:1376:A:H3'	22:A1:102:ARG:NE	2.33	0.43
21:i1:1848:U:N3	21:i1:1850:A:OP2	2.51	0.43
25:E1:95:THR:OG1	25:E1:97:GLU:OE1	2.25	0.43
31:P1:60:LEU:HD22	31:P1:92:SER:OG	2.17	0.43
33:R1:106:LEU:O	33:R1:110:ASP:N	2.40	0.43
34:S1:130:ARG:HD2	34:S1:134:GLN:OE1	2.18	0.43
2:U2:34:LYS:HA	2:U2:37:ALA:HB3	1.99	0.43
12:J2:85:GLY:HA2	12:J2:151:LEU:HD22	1.99	0.43
21:i2:202:G:N7	26:F5:184:SER:OG	2.47	0.43
21:i2:323:C:O2'	21:i2:324:C:O5'	2.36	0.43
21:i2:590:A:O2'	21:i2:591:U:O4'	2.37	0.43
21:i2:837:A:O2'	21:i2:839:C:OP1	2.32	0.43
21:i2:1236:G:H5'	31:P2:133:ILE:HB	2.00	0.43
21:i2:1238:U:C4	21:i2:1239:U:C2	3.07	0.43
21:i2:1350:U:H3	21:i2:1379:A:H61	1.66	0.43
21:i2:1693:G:O2'	21:i2:1835:A:OP2	2.33	0.43
26:F2:137:GLN:HA	26:F2:203:ASN:CG	2.43	0.43
27:H2:72:PHE:O	27:H2:76:GLN:N	2.51	0.43
32:Q2:87:SER:O	32:Q2:91:ALA:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q2:109:LYS:HE2	32:Q2:120:LEU:HD21	1.99	0.43
34:S2:48:ALA:HB2	34:S2:70:ILE:HD12	2.00	0.43
9:g3:194:TYR:CE2	9:g3:212:LYS:HB2	2.54	0.43
11:G3:67:VAL:N	11:G3:100:CYS:SG	2.90	0.43
11:G3:164:LYS:HB2	21:i3:67:C:N4	2.33	0.43
14:N3:148:ALA:C	14:N3:149:LEU:HD13	2.42	0.43
21:i3:1238:U:C4	21:i3:1239:U:C2	3.07	0.43
21:i3:1269:G:N2	21:i3:1514:G:N3	2.66	0.43
28:I3:190:LEU:C	28:I3:195:LEU:HB2	2.43	0.43
29:K3:51:SER:O	29:K3:54:SER:OG	2.25	0.43
30:L3:77:VAL:O	30:L3:123:GLY:N	2.46	0.43
31:P3:50:ARG:HD3	31:P3:50:ARG:HA	1.73	0.43
1:T4:3:GLY:O	1:T4:4:VAL:HG12	2.17	0.43
2:U4:38:ASP:CG	2:U4:104:ILE:HD12	2.43	0.43
11:G4:67:VAL:N	11:G4:100:CYS:SG	2.90	0.43
12:J4:37:LEU:HB3	12:J4:38:ARG:H	1.45	0.43
12:J4:85:GLY:HA2	12:J4:151:LEU:HD22	1.99	0.43
15:O4:135:ILE:O	21:i4:943:U:O2'	2.35	0.43
16:W4:28:ARG:NH1	21:i4:921:G:H2'	2.33	0.43
21:i4:535:G:N2	21:i4:537:C:H1'	2.34	0.43
21:i4:927:C:H2'	21:i4:928:G:C8	2.54	0.43
21:i4:1036:A:H2'	21:i4:1037:G:H5'	1.99	0.43
21:i4:1255:G:H5'	21:i4:1256:G:H4'	1.99	0.43
25:E4:88:ASP:O	25:E4:100:ARG:HA	2.19	0.43
25:E4:127:ARG:NE	25:E4:142:HIS:HA	2.33	0.43
26:F4:59:LYS:HB2	26:F4:62:ARG:HD3	2.00	0.43
34:S4:81:ASP:O	34:S4:87:GLN:NE2	2.49	0.43
4:X5:15:SER:O	4:X5:18:ARG:HG2	2.18	0.43
8:f5:93:HIS:CB	21:i5:1304:U:H4'	2.28	0.43
9:g5:35:SER:OG	9:g5:36:ARG:N	2.51	0.43
10:C5:168:GLY:N	10:C5:179:THR:O	2.32	0.43
11:G5:140:ARG:HA	11:G5:140:ARG:HD3	1.70	0.43
11:G5:167:LYS:HB3	11:G5:168:LYS:H	1.51	0.43
12:J5:57:ALA:O	12:J5:61:LEU:N	2.47	0.43
13:M5:95:ASP:HB2	13:M5:99:LYS:HB2	2.00	0.43
14:N5:72:LEU:HB2	21:i5:1019:C:H5''	1.99	0.43
21:i5:464:A:OP2	21:i5:465:A:N6	2.51	0.43
21:i5:913:A:N6	27:H5:98:ARG:HB3	2.33	0.43
21:i5:1334:G:H2'	21:i5:1335:G:O4'	2.17	0.43
21:i5:1397:U:O4	32:Q5:12:VAL:HA	2.18	0.43
21:i5:1689:C:C2'	21:i5:1690:U:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1841:C:P	35:j5:2:ARG:HD2	2.59	0.43
22:A5:90:PHE:CD1	22:A5:179:ALA:HB2	2.52	0.43
22:A5:210:ILE:C	22:A5:212:LYS:N	2.75	0.43
34:S5:130:ARG:HD2	34:S5:134:GLN:OE1	2.18	0.43
4:X6:15:SER:O	4:X6:18:ARG:HG2	2.18	0.43
8:f6:93:HIS:CB	21:i6:1304:U:H4'	2.28	0.43
9:g6:226:HIS:CE1	24:D6:222:PRO:HG2	2.54	0.43
12:J6:17:ARG:HE	21:i6:3:C:N4	2.16	0.43
12:J6:127:ARG:NH1	21:i6:523:A:OP1	2.51	0.43
14:N6:148:ALA:C	14:N6:149:LEU:HD13	2.42	0.43
16:W6:41:MET:HG2	16:W6:129:PHE:CE2	2.53	0.43
20:e6:48:THR:CA	20:e6:49:PHE:HB2	2.32	0.43
21:i6:493:A:N1	21:i6:510:G:O2'	2.51	0.43
21:i6:535:G:N2	21:i6:537:C:H1'	2.33	0.43
21:i6:590:A:O2'	21:i6:591:U:O4'	2.37	0.43
21:i6:1113:A:H1'	21:i6:1121:G:H1	1.83	0.43
21:i6:1318:G:C2	21:i6:1319:U:C2	3.06	0.43
21:i6:1406:G:H2'	21:i6:1407:U:O4'	2.18	0.43
25:E6:103:TYR:HB3	25:E6:107:GLY:HA2	2.00	0.43
27:H6:158:LEU:O	27:H6:190:PRO:HD2	2.17	0.43
30:L6:77:VAL:O	30:L6:123:GLY:N	2.47	0.43
31:P6:15:PHE:CG	31:P6:16:THR:N	2.86	0.43
33:R6:88:VAL:O	33:R6:92:ASP:HB2	2.18	0.43
36:k1:83:ARG:HH22	36:k1:175:TRP:NE1	2.14	0.43
36:k3:88:TYR:CB	36:k3:91:ILE:HG12	2.47	0.43
36:k4:50:VAL:HG12	36:k4:64:VAL:HG22	2.00	0.43
36:k5:94:HIS:ND1	36:k5:135:MET:HG3	2.33	0.43
37:l1:114:LYS:HE3	37:l1:114:LYS:HB3	1.41	0.43
37:l1:139:ILE:HG22	37:l1:140:ASP:H	1.83	0.43
37:l2:130:ARG:C	37:l2:131:VAL:HG23	2.42	0.43
2:U1:38:ASP:CG	2:U1:104:ILE:HD12	2.43	0.43
9:g1:6:THR:O	9:g1:8:ARG:NH1	2.51	0.43
9:g1:242:SER:N	9:g1:246:TYR:O	2.44	0.43
9:g1:270:LEU:HD11	9:g1:310:TRP:NE1	2.33	0.43
10:C1:65:LYS:HZ2	10:C1:280:VAL:HB	1.83	0.43
11:G1:186:GLN:OE1	21:i1:331:C:C4	2.65	0.43
13:M1:51:VAL:HB	13:M1:109:VAL:HB	2.01	0.43
13:M1:125:GLU:O	13:M1:129:LYS:N	2.48	0.43
21:i1:969:U:O4	28:I3:161:LEU:HD11	2.18	0.43
21:i1:1700:C:N3	21:i1:1834:A:N6	2.65	0.43
21:i1:1776:G:N3	21:i1:1776:G:C5'	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1842:C:C1'	35:j1:4:LYS:HZ1	2.24	0.43
23:B1:214:LYS:HD3	23:B1:216:LYS:HD2	2.00	0.43
26:F1:49:LEU:HD11	32:Q1:49:TYR:HB3	1.99	0.43
1:T2:82:ARG:NH1	21:i2:1589:A:O2'	2.52	0.43
2:U2:61:LEU:H	2:U2:81:GLN:HE22	1.67	0.43
4:X2:95:GLU:HB2	4:X2:98:ASP:OD2	2.18	0.43
9:g2:242:SER:N	9:g2:246:TYR:O	2.44	0.43
11:G2:221:LYS:HA	11:G2:224:ARG:HB3	2.01	0.43
12:J2:7:TRP:CD1	21:i2:38:A:H4'	2.53	0.43
17:Y2:20:ARG:HH11	17:Y2:74:MET:HA	1.82	0.43
21:i2:467:G:H2'	21:i2:468:A:H8	1.84	0.43
21:i2:903:A:H2'	21:i2:904:A:C5	2.53	0.43
21:i2:1785:C:OP2	21:i2:1785:C:C6	2.71	0.43
24:D2:70:THR:O	24:D2:74:GLN:HG2	2.18	0.43
26:F2:55:ARG:HG2	26:F2:62:ARG:NH1	2.33	0.43
28:I2:200:ARG:NH2	21:i5:970:G:C2'	2.77	0.43
33:R2:13:ALA:O	33:R2:16:ILE:HG22	2.18	0.43
34:S2:130:ARG:HD2	34:S2:134:GLN:OE1	2.18	0.43
1:T3:82:ARG:HH12	21:i3:1590:C:P	2.42	0.43
2:U3:38:ASP:CG	2:U3:104:ILE:HD12	2.43	0.43
4:X3:125:VAL:O	4:X3:127:ASN:N	2.51	0.43
10:C3:255:LEU:C	10:C3:257:LYS:H	2.26	0.43
11:G3:57:ASP:HA	11:G3:106:LEU:HB2	1.99	0.43
11:G3:159:ARG:HB3	11:G3:172:LYS:HB3	1.99	0.43
14:N3:149:LEU:C	14:N3:149:LEU:HD22	2.43	0.43
15:O3:147:ARG:HD2	15:O3:150:ARG:NE	2.30	0.43
16:W3:10:ALA:O	16:W3:13:SER:OG	2.24	0.43
17:Y3:110:ARG:NH1	17:Y3:128:GLY:O	2.44	0.43
21:i3:327:G:H1'	21:i3:328:U:O4'	2.18	0.43
21:i3:667:U:H5''	21:i3:1087:A:C5	2.54	0.43
21:i3:903:A:H2'	21:i3:904:A:C5	2.53	0.43
21:i3:912:C:O2'	21:i3:913:A:OP1	2.30	0.43
22:A3:80:ARG:HH22	22:A3:166:LYS:HG2	1.82	0.43
32:Q3:87:SER:O	32:Q3:91:ALA:N	2.50	0.43
33:R3:63:ARG:HH11	33:R3:63:ARG:CG	2.28	0.43
1:T4:82:ARG:HG3	1:T4:90:SER:HB2	2.01	0.43
9:g4:47:ARG:HA	9:g4:52:TYR:CD1	2.53	0.43
11:G4:189:ARG:O	21:i4:331:C:OP2	2.36	0.43
12:J4:39:ASN:HB2	21:i4:642:U:P	2.58	0.43
14:N4:26:LEU:O	14:N4:26:LEU:HG	2.18	0.43
19:b4:67:THR:OG1	19:b4:68:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:118:C:H2'	21:i4:119:U:O4'	2.19	0.43
21:i4:903:A:H2'	21:i4:904:A:C5	2.53	0.43
21:i4:1058:A:H2'	21:i4:1059:G:O4'	2.18	0.43
21:i4:1154:U:OP1	21:i4:1156:U:H5'	2.18	0.43
22:A4:183:LEU:HD23	22:A4:186:ARG:HD2	1.99	0.43
23:B4:167:LYS:O	23:B4:171:ILE:HG12	2.18	0.43
25:E4:186:GLY:N	25:E4:189:LEU:HD23	2.32	0.43
27:H4:170:VAL:CG1	27:H4:171:GLU:N	2.81	0.43
34:S4:48:ALA:HB2	34:S4:70:ILE:HD12	2.00	0.43
34:S4:123:LEU:HD22	34:S4:127:TRP:CZ2	2.53	0.43
2:U5:17:ILE:HB	2:U5:94:PRO:HA	1.99	0.43
4:X5:95:GLU:HB2	4:X5:98:ASP:OD2	2.18	0.43
13:M5:27:ILE:CG2	29:K5:84:HIS:CD2	3.00	0.43
14:N5:30:SER:O	14:N5:33:VAL:HG22	2.18	0.43
21:i5:57:U:O2'	21:i5:499:G:N3	2.44	0.43
21:i5:535:G:H22	21:i5:537:C:H1'	1.82	0.43
21:i5:1154:U:OP1	21:i5:1156:U:H5'	2.18	0.43
22:A5:212:LYS:HE3	22:A5:212:LYS:HB3	1.63	0.43
25:E5:151:ASP:OD2	25:E5:153:LEU:HB2	2.19	0.43
26:F5:19:LEU:H	26:F5:48:TYR:HE1	1.66	0.43
2:U6:38:ASP:CG	2:U6:104:ILE:HD12	2.43	0.43
9:g6:6:THR:O	9:g6:8:ARG:NH1	2.51	0.43
11:G6:221:LYS:HA	11:G6:224:ARG:HB3	2.00	0.43
20:e6:31:ARG:NH1	21:i6:525:A:C3'	2.81	0.43
21:i6:399:C:C2	30:L6:106:HIS:HD2	2.36	0.43
21:i6:480:G:H2'	21:i6:481:C:O4'	2.18	0.43
21:i6:1328:G:H1	21:i6:1501:C:N4	2.16	0.43
21:i6:1490:G:H2'	21:i6:1491:G:H8	1.83	0.43
21:i6:1777:G:H2'	21:i6:1778:C:N1	2.34	0.43
23:B6:167:LYS:O	23:B6:171:ILE:HG12	2.19	0.43
24:D6:30:ALA:HB1	24:D6:103:GLU:OE1	2.17	0.43
24:D6:104:SER:HB3	24:D6:108:LYS:HE2	1.99	0.43
26:F6:86:LYS:O	26:F6:87:LEU:HD12	2.17	0.43
31:P6:26:LEU:CD2	31:P6:88:GLU:HG3	2.48	0.43
34:S6:63:GLU:HA	34:S6:66:ARG:HG2	2.00	0.43
36:k1:140:GLN:CG	36:k1:141:HIS:ND1	2.80	0.43
36:k6:140:GLN:CG	36:k6:141:HIS:ND1	2.80	0.43
37:l1:148:PHE:HZ	37:l1:166:ILE:HG23	1.83	0.43
37:l4:148:PHE:HZ	37:l4:166:ILE:HG23	1.83	0.43
1:T1:82:ARG:NH1	21:i1:1589:A:O2'	2.51	0.43
2:U1:34:LYS:HA	2:U1:37:ALA:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:g1:47:ARG:HA	9:g1:52:TYR:CD1	2.54	0.43
11:G1:4:ASN:HB2	11:G1:110:ASN:OD1	2.19	0.43
11:G1:167:LYS:HB3	11:G1:168:LYS:H	1.51	0.43
14:N1:83:ASP:HB3	14:N1:150:VAL:O	2.18	0.43
17:Y1:76:TYR:OH	17:Y1:86:GLU:OE1	2.21	0.43
21:i1:956:G:OP2	28:I3:160:SER:HB3	2.15	0.43
21:i1:1163:C:H2'	21:i1:1164:G:C8	2.53	0.43
21:i1:1455:A:OP1	33:R1:5:ARG:NH1	2.52	0.43
22:A1:77:ILE:HA	22:A1:99:ILE:O	2.19	0.43
23:B1:167:LYS:O	23:B1:171:ILE:HG12	2.18	0.43
25:E1:148:ARG:HE	25:E1:149:TYR:HE2	1.66	0.43
4:X2:49:GLY:O	4:X2:100:VAL:HG22	2.18	0.43
4:X2:51:VAL:HG21	4:X2:94:ILE:HD11	1.99	0.43
9:g2:110:SER:HB3	9:g2:153:CYS:HA	2.00	0.43
11:G2:149:LYS:NZ	11:G2:149:LYS:CB	2.75	0.43
12:J2:169:ARG:NH2	12:J2:170:PRO:HG2	2.33	0.43
13:M2:27:ILE:CG2	29:K2:84:HIS:CD2	3.00	0.43
14:N2:122:ILE:O	14:N2:126:ALA:N	2.33	0.43
15:O2:35:ALA:HB3	15:O2:98:ARG:O	2.19	0.43
16:W2:10:ALA:O	16:W2:13:SER:OG	2.24	0.43
17:Y2:86:GLU:HG3	17:Y2:90:ARG:HB2	2.01	0.43
21:i2:318:A:N1	21:i2:333:G:N1	2.65	0.43
21:i2:667:U:H5''	21:i2:1087:A:C5	2.54	0.43
21:i2:733:C:H3'	21:i2:733:C:O2	2.19	0.43
21:i2:895:G:H2'	21:i2:896:U:H4'	2.00	0.43
21:i2:1154:U:OP1	21:i2:1156:U:H5'	2.18	0.43
21:i2:1545:A:C6	21:i2:1546:G:C6	3.06	0.43
26:F2:107:ASN:HA	26:F2:108:PRO:HD2	1.71	0.43
1:T3:2:PRO:HA	1:T3:3:GLY:HA3	1.70	0.43
5:a3:45:VAL:HG22	5:a3:49:ALA:HB3	1.99	0.43
9:g3:260:ASP:HB3	9:g3:261:LEU:H	1.67	0.43
13:M3:51:VAL:HB	13:M3:109:VAL:HB	2.01	0.43
13:M3:111:VAL:HG12	13:M3:114:TYR:CE1	2.50	0.43
17:Y3:86:GLU:HG3	17:Y3:90:ARG:HB2	2.01	0.43
21:i3:457:C:H5'	21:i3:1801:A:O2'	2.18	0.43
21:i3:590:A:O2'	21:i3:591:U:O4'	2.37	0.43
21:i3:1060:A:H4'	21:i3:1061:U:O5'	2.18	0.43
21:i3:1479:G:H2'	21:i3:1480:A:O4'	2.17	0.43
22:A3:22:GLY:O	22:A3:24:HIS:N	2.46	0.43
26:F3:55:ARG:HG2	26:F3:62:ARG:NH1	2.33	0.43
27:H3:157:HIS:HB3	27:H3:190:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:L3:13:GLN:HG2	30:L3:36:TYR:HB3	2.01	0.43
33:R3:65:PRO:CB	33:R3:74:GLN:NE2	2.81	0.43
33:R3:88:VAL:O	33:R3:92:ASP:HB2	2.18	0.43
34:S3:130:ARG:HD2	34:S3:134:GLN:OE1	2.18	0.43
1:T4:82:ARG:NH1	21:i4:1589:A:O2'	2.51	0.43
6:c4:13:ARG:HA	6:c4:54:ASP:O	2.19	0.43
7:d4:6:LEU:HA	7:d4:7:TYR:HA	1.76	0.43
7:d4:29:GLY:O	7:d4:40:ARG:N	2.50	0.43
10:C4:115:GLN:HG3	21:i4:1203:G:H1'	1.99	0.43
11:G4:193:ALA:HB2	21:i4:331:C:OP2	2.18	0.43
13:M4:51:VAL:HB	13:M4:109:VAL:HB	2.01	0.43
14:N4:30:SER:O	14:N4:33:VAL:HG22	2.18	0.43
14:N4:83:ASP:HB3	14:N4:150:VAL:O	2.18	0.43
16:W4:3:ARG:HD3	16:W4:9:ASP:OD2	2.19	0.43
20:e4:28:LYS:HG3	21:i4:524:U:O2'	2.18	0.43
21:i4:583:C:H5'	21:i4:584:G:OP2	2.17	0.43
21:i4:872:A:O2'	21:i4:873:G:H8	2.02	0.43
21:i4:1522:A:H2	21:i4:1523:C:C6	2.36	0.43
21:i4:1610:G:OP2	34:S4:132:ARG:NE	2.46	0.43
23:B4:40:ASN:N	23:B4:75:GLN:OE1	2.34	0.43
23:B4:100:PHE:HZ	23:B4:215:VAL:HG11	1.84	0.43
24:D4:126:ILE:HG21	24:D4:134:CYS:HB3	2.01	0.43
26:F4:49:LEU:HD11	32:Q4:49:TYR:HB3	2.00	0.43
26:F4:110:GLN:O	26:F4:114:ASN:ND2	2.51	0.43
27:H4:63:PHE:HA	27:H4:95:ILE:O	2.19	0.43
34:S4:63:GLU:HA	34:S4:66:ARG:HG2	1.99	0.43
34:S4:108:ARG:O	34:S4:112:GLU:HG2	2.18	0.43
2:U5:26:SER:HB2	2:U5:32:LEU:HD22	1.99	0.43
4:X5:101:LEU:O	4:X5:123:VAL:HG22	2.19	0.43
8:f5:82:LYS:HZ1	21:i5:1504:U:H5''	1.83	0.43
8:f5:96:LYS:HZ1	21:i5:1306:U:P	2.41	0.43
9:g5:270:LEU:HD11	9:g5:310:TRP:NE1	2.33	0.43
11:G5:221:LYS:HA	11:G5:224:ARG:HB3	2.00	0.43
12:J5:85:GLY:HA2	12:J5:151:LEU:HD22	2.00	0.43
14:N5:55:ARG:HA	14:N5:60:VAL:O	2.18	0.43
14:N5:83:ASP:HB3	14:N5:150:VAL:O	2.18	0.43
14:N5:149:LEU:C	14:N5:149:LEU:HD22	2.43	0.43
15:O5:49:GLY:O	21:i5:975:G:O2'	2.28	0.43
17:Y5:86:GLU:HG3	17:Y5:90:ARG:HB2	2.00	0.43
21:i5:488:U:O2'	21:i5:489:A:OP1	2.33	0.43
21:i5:903:A:H2'	21:i5:904:A:C5	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1238:U:C4	21:i5:1239:U:C2	3.06	0.43
21:i5:1325:G:H4'	21:i5:1510:G:H4'	1.99	0.43
21:i5:1751:C:C3'	21:i5:1751:C:C6	3.02	0.43
24:D5:135:GLU:CD	24:D5:157:MET:HG2	2.43	0.43
25:E5:103:TYR:HB3	25:E5:107:GLY:HA2	2.01	0.43
26:F5:55:ARG:HG2	26:F5:62:ARG:NH1	2.33	0.43
8:f6:96:LYS:HZ1	21:i6:1306:U:C5'	2.29	0.43
10:C6:255:LEU:C	10:C6:257:LYS:H	2.26	0.43
12:J6:4:ALA:H	12:J6:5:ARG:NE	2.16	0.43
15:O6:92:ALA:CB	15:O6:125:LYS:HB2	2.48	0.43
21:i6:109:U:H3	21:i6:352:U:H3	1.65	0.43
21:i6:733:C:O2	21:i6:733:C:H3'	2.19	0.43
21:i6:872:A:O2'	21:i6:873:G:H8	2.02	0.43
21:i6:1269:G:N2	21:i6:1514:G:N3	2.67	0.43
21:i6:1422:G:H1'	21:i6:1424:G:C8	2.53	0.43
25:E6:31:PRO:HB3	25:E6:43:PRO:HB3	2.00	0.43
25:E6:148:ARG:HE	25:E6:149:TYR:HE2	1.66	0.43
28:I6:107:THR:OG1	28:I6:108:PRO:HD3	2.19	0.43
31:P6:114:HIS:HB3	31:P6:119:PHE:CE2	2.52	0.43
33:R6:66:VAL:O	33:R6:66:VAL:HG13	2.18	0.43
36:k2:11:VAL:CG2	36:k2:177:MET:CE	2.88	0.43
36:k2:86:HIS:ND1	36:k2:141:HIS:CG	2.86	0.43
36:k2:102:ILE:HD12	36:k2:103:LYS:N	2.33	0.43
36:k2:178:LYS:HB3	36:k2:179:THR:H	1.50	0.43
36:k3:86:HIS:NE2	36:k3:141:HIS:C	2.76	0.43
37:l3:128:VAL:HG13	37:l3:166:ILE:H	1.20	0.43
37:l3:130:ARG:C	37:l3:131:VAL:HG23	2.42	0.43
37:l5:139:ILE:HG22	37:l5:140:ASP:H	1.83	0.43
37:l6:148:PHE:HZ	37:l6:166:ILE:HG23	1.83	0.43
2:U1:17:ILE:HG21	2:U1:94:PRO:CB	2.39	0.43
4:X1:49:GLY:O	4:X1:100:VAL:HG22	2.18	0.43
8:f1:87:THR:HB	8:f1:90:LYS:HE2	1.94	0.43
11:G1:164:LYS:HB2	21:i1:67:C:N4	2.33	0.43
12:J1:4:ALA:H	12:J1:5:ARG:NE	2.17	0.43
14:N1:55:ARG:HA	14:N1:60:VAL:O	2.18	0.43
14:N1:137:PRO:CG	30:L1:154:GLN:HB2	2.41	0.43
21:i1:216:C:H41	21:i1:309:G:H1	1.66	0.43
21:i1:488:U:O2'	21:i1:489:A:OP1	2.34	0.43
21:i1:692:G:OP1	21:i1:692:G:H4'	2.18	0.43
21:i1:833:C:O2'	21:i1:834:C:OP1	2.27	0.43
21:i1:1054:G:C2	21:i1:1055:A:H1'	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1141:G:H1	21:i1:1146:C:H42	1.66	0.43
21:i1:1332:A:H2'	24:D1:141:LYS:HZ3	1.82	0.43
21:i1:1490:G:H2'	21:i1:1491:G:H8	1.84	0.43
21:i1:1851:A:OP1	35:j1:9:ARG:NH2	2.47	0.43
26:F1:41:VAL:HG11	26:F1:68:ILE:HG12	2.00	0.43
26:F1:113:VAL:O	26:F1:117:ILE:HG12	2.18	0.43
26:F1:137:GLN:HA	26:F1:203:ASN:CG	2.43	0.43
26:F1:173:LEU:O	26:F1:177:LEU:HG	2.17	0.43
27:H1:158:LEU:O	27:H1:190:PRO:HD2	2.18	0.43
4:X2:54:LYS:HG3	20:e2:6:LEU:CD1	2.44	0.43
4:X2:125:VAL:O	4:X2:127:ASN:N	2.51	0.43
9:g2:89:LEU:O	9:g2:97:THR:HA	2.18	0.43
14:N2:4:MET:HE2	14:N2:5:HIS:HE2	1.84	0.43
21:i2:12:U:H4'	21:i2:1356:G:O2'	2.17	0.43
21:i2:187:G:C5'	21:i2:300:U:OP1	2.67	0.43
21:i2:319:C:H5'	21:i2:320:G:OP2	2.19	0.43
21:i2:1269:G:N2	21:i2:1514:G:N3	2.67	0.43
21:i2:1454:A:H5'	33:R2:5:ARG:HH22	1.84	0.43
21:i2:1583:C:H3'	21:i2:1584:G:H8	1.83	0.43
21:i2:1777:G:H2'	21:i2:1778:C:N1	2.33	0.43
25:E2:88:ASP:O	25:E2:100:ARG:HA	2.19	0.43
25:E2:176:ASP:OD1	25:E2:177:THR:N	2.41	0.43
32:Q2:13:PHE:HA	32:Q2:21:ALA:O	2.19	0.43
9:g3:89:LEU:O	9:g3:97:THR:HA	2.18	0.43
9:g3:294:ASP:OD1	9:g3:295:GLY:N	2.52	0.43
10:C3:274:VAL:HA	10:C3:275:LYS:HA	1.79	0.43
13:M3:95:ASP:HB2	13:M3:99:LYS:HB2	2.00	0.43
14:N3:84:LEU:HA	14:N3:135:LEU:HD21	2.00	0.43
15:O3:35:ALA:HB3	15:O3:98:ARG:O	2.19	0.43
21:i3:565:G:N1	21:i3:586:G:H1'	2.34	0.43
21:i3:1141:G:H1	21:i3:1146:C:H42	1.66	0.43
21:i3:1454:A:H5'	33:R3:5:ARG:HH22	1.84	0.43
21:i3:1504:U:H1'	21:i3:1509:U:H5	1.84	0.43
21:i3:1708:C:O4'	37:l3:153:SER:HB2	2.18	0.43
23:B3:214:LYS:HD3	23:B3:216:LYS:HD2	2.00	0.43
10:C4:242:ASP:HA	10:C4:245:SER:OG	2.19	0.43
17:Y4:59:GLY:O	21:i4:572:U:H5''	2.19	0.43
20:e4:7:ALA:C	20:e4:8:ARG:HG3	2.43	0.43
20:e4:49:PHE:CD1	20:e4:49:PHE:O	2.71	0.43
21:i4:212:C:O5'	21:i4:212:C:C6	2.71	0.43
21:i4:319:C:H5'	21:i4:320:G:OP2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:590:A:O2'	21:i4:591:U:O4'	2.37	0.43
21:i4:1269:G:N2	21:i4:1514:G:N3	2.67	0.43
21:i4:1300:U:N3	31:P4:51:ARG:CD	2.80	0.43
21:i4:1583:C:H3'	21:i4:1584:G:H8	1.83	0.43
21:i4:1693:G:H21	21:i4:1834:A:H1'	1.82	0.43
21:i4:1777:G:H2'	21:i4:1778:C:N1	2.33	0.43
21:i4:1848:U:N3	21:i4:1850:A:OP2	2.51	0.43
22:A4:214:GLU:OE1	33:R4:84:TYR:HD1	1.94	0.43
23:B4:128:LYS:HG3	23:B4:129:THR:O	2.18	0.43
31:P4:118:GLU:O	31:P4:118:GLU:HG3	2.19	0.43
32:Q4:134:GLY:HA3	32:Q4:141:TYR:N	2.33	0.43
1:T5:82:ARG:HH12	21:i5:1590:C:P	2.42	0.43
4:X5:48:LYS:HG3	21:i5:483:C:H5''	1.99	0.43
11:G5:164:LYS:HB2	21:i5:67:C:N4	2.34	0.43
11:G5:208:GLU:OE2	25:E5:168:LYS:HE2	2.18	0.43
21:i5:496:C:H42	21:i5:506:G:H1	1.65	0.43
21:i5:1422:G:H1'	21:i5:1424:G:C8	2.53	0.43
23:B5:100:PHE:HZ	23:B5:215:VAL:HG11	1.84	0.43
23:B5:221:PRO:C	23:B5:223:PHE:H	2.26	0.43
25:E5:31:PRO:HB3	25:E5:43:PRO:HB3	2.00	0.43
26:F5:59:LYS:HB2	26:F5:62:ARG:HD3	2.00	0.43
31:P5:18:ARG:HG2	34:S5:93:GLY:CA	2.49	0.43
31:P5:18:ARG:HA	34:S5:93:GLY:CA	2.49	0.43
31:P5:26:LEU:CD2	31:P5:88:GLU:HG3	2.49	0.43
1:T6:40:ALA:HB2	1:T6:96:SER:N	2.34	0.43
4:X6:95:GLU:HB2	4:X6:98:ASP:OD2	2.18	0.43
6:c6:13:ARG:HA	6:c6:54:ASP:O	2.19	0.43
10:C6:273:LEU:HB3	10:C6:280:VAL:HG13	1.64	0.43
11:G6:208:GLU:OE2	25:E6:168:LYS:HE2	2.18	0.43
14:N6:83:ASP:HB3	14:N6:150:VAL:O	2.18	0.43
15:O6:35:ALA:HB3	15:O6:98:ARG:O	2.19	0.43
17:Y6:22:GLN:NE2	25:E6:56:LEU:HD12	2.31	0.43
21:i6:1143:A:HO2'	21:i6:1355:C:N4	2.14	0.43
21:i6:1413:G:H5''	21:i6:1414:A:OP2	2.19	0.43
21:i6:1465:A:OP1	33:R6:56:HIS:NE2	2.45	0.43
21:i6:1848:U:N3	21:i6:1850:A:OP2	2.51	0.43
23:B6:221:PRO:C	23:B6:223:PHE:H	2.27	0.43
26:F6:49:LEU:HA	26:F6:50:PRO:HD3	1.84	0.43
26:F6:55:ARG:HG2	26:F6:62:ARG:NH1	2.33	0.43
33:R6:13:ALA:O	33:R6:16:ILE:HG22	2.19	0.43
36:k1:145:VAL:C	36:k1:167:ILE:HG12	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:9:GLU:O	36:k2:56:HIS:CE1	2.72	0.43
36:k4:170:LEU:HG	36:k4:175:TRP:CE2	2.53	0.43
36:k6:146:GLY:CA	36:k6:167:ILE:HD11	2.48	0.43
2:U1:91:LEU:HB3	2:U1:93:SER:HB3	2.01	0.43
8:f1:105:TYR:HE2	8:f1:106:TYR:HH	1.67	0.43
8:f1:114:ILE:HD13	13:M1:68:LEU:HD23	2.00	0.43
10:C1:255:LEU:C	10:C1:257:LYS:H	2.26	0.43
12:J1:85:GLY:HA2	12:J1:151:LEU:HD22	2.00	0.43
14:N1:72:LEU:HB2	21:i1:1019:C:H5''	1.99	0.43
15:O1:51:GLU:OE2	23:B1:65:ARG:NH2	2.50	0.43
19:b1:67:THR:OG1	19:b1:68:GLY:N	2.51	0.43
21:i1:312:G:C5'	21:i1:313:A:H5'	2.49	0.43
21:i1:590:A:O2'	21:i1:591:U:O4'	2.37	0.43
21:i1:1238:U:C4	21:i1:1239:U:C2	3.06	0.43
24:D1:135:GLU:CD	24:D1:157:MET:HG2	2.43	0.43
26:F1:136:ARG:O	26:F1:203:ASN:CB	2.67	0.43
31:P1:108:LYS:HB3	31:P1:109:PRO:CD	2.40	0.43
1:T2:2:PRO:HA	1:T2:3:GLY:HA3	1.70	0.43
2:U2:26:SER:HB2	2:U2:32:LEU:HD22	1.99	0.43
9:g2:6:THR:O	9:g2:8:ARG:NH1	2.51	0.43
9:g2:127:LYS:NZ	33:R2:37:GLU:OE2	2.52	0.43
11:G2:4:ASN:HB2	11:G2:110:ASN:OD1	2.19	0.43
11:G2:153:VAL:O	11:G2:154:ARG:C	2.62	0.43
12:J2:4:ALA:H	12:J2:5:ARG:NE	2.17	0.43
17:Y2:10:ARG:HB2	21:i2:833:C:H41	1.83	0.43
17:Y2:28:LEU:HG	17:Y2:30:PRO:HD3	2.00	0.43
20:e2:49:PHE:CD1	20:e2:49:PHE:O	2.71	0.43
21:i2:334:C:H5''	21:i2:334:C:H6	1.84	0.43
21:i2:335:G:H2'	21:i2:336:A:C8	2.54	0.43
21:i2:565:G:N1	21:i2:586:G:H1'	2.34	0.43
21:i2:594:A:O4'	21:i2:643:A:N6	2.52	0.43
21:i2:927:C:H2'	21:i2:928:G:C8	2.54	0.43
21:i2:1397:U:O4	32:Q2:12:VAL:HA	2.18	0.43
21:i2:1751:C:C3'	21:i2:1751:C:C6	3.02	0.43
25:E2:36:HIS:ND1	25:E2:41:CYS:HB3	2.34	0.43
26:F2:110:GLN:O	26:F2:114:ASN:ND2	2.51	0.43
26:F2:113:VAL:O	26:F2:117:ILE:HG12	2.18	0.43
30:L2:121:GLN:CB	30:L2:153:LYS:CD	2.93	0.43
32:Q2:24:HIS:HE1	32:Q2:69:ARG:HB2	1.83	0.43
32:Q2:123:ASP:HA	32:Q2:124:PRO:HD2	1.73	0.43
34:S2:63:GLU:HA	34:S2:66:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:S2:81:ASP:O	34:S2:87:GLN:NE2	2.49	0.43
2:U3:26:SER:HB2	2:U3:32:LEU:HD22	1.99	0.43
2:U3:61:LEU:H	2:U3:81:GLN:HE22	1.67	0.43
14:N3:84:LEU:HB3	14:N3:135:LEU:CD2	2.49	0.43
21:i3:1235:G:H1	21:i3:1523:C:N4	2.15	0.43
21:i3:1382:A:H2'	21:i3:1383:A:H5'	1.99	0.43
21:i3:1422:G:H1'	21:i3:1424:G:C8	2.54	0.43
23:B3:221:PRO:C	23:B3:223:PHE:H	2.26	0.43
24:D3:135:GLU:CD	24:D3:157:MET:HG2	2.43	0.43
24:D3:167:TYR:OH	24:D3:201:LYS:O	2.30	0.43
25:E3:88:ASP:O	25:E3:100:ARG:HA	2.19	0.43
26:F3:133:THR:HG21	26:F3:135:ARG:NE	2.32	0.43
27:H3:69:LEU:HA	27:H3:72:PHE:HD2	1.83	0.43
27:H3:72:PHE:O	27:H3:76:GLN:N	2.51	0.43
32:Q3:134:GLY:HA3	32:Q3:141:TYR:N	2.33	0.43
1:T4:82:ARG:HH12	21:i4:1590:C:P	2.42	0.43
9:g4:168:CYS:SG	9:g4:169:GLY:N	2.87	0.43
15:O4:35:ALA:HB3	15:O4:98:ARG:O	2.19	0.43
16:W4:80:ASP:OD2	21:i4:803:C:H4'	2.19	0.43
17:Y4:86:GLU:HG3	17:Y4:90:ARG:HB2	2.01	0.43
21:i4:61:A:N1	21:i4:334:C:C2'	2.81	0.43
21:i4:560:A:H2'	21:i4:561:A:C8	2.53	0.43
21:i4:587:A:H1'	21:i4:589:G:H22	1.83	0.43
21:i4:667:U:H5''	21:i4:1087:A:C5	2.54	0.43
21:i4:1061:U:O2'	21:i4:1062:A:OP2	2.32	0.43
21:i4:1215:C:O2'	21:i4:1645:C:OP2	2.37	0.43
21:i4:1689:C:C3'	21:i4:1690:U:H5'	2.47	0.43
21:i4:1834:A:H2	21:i4:1837:G:H22	1.65	0.43
24:D4:209:SER:HB2	33:R4:40:ILE:HB	2.00	0.43
26:F4:39:ILE:HG23	26:F4:68:ILE:HG21	1.99	0.43
27:H4:157:HIS:HB3	27:H4:190:PRO:HG3	2.00	0.43
29:K4:24:LYS:HA	29:K4:66:HIS:HA	1.99	0.43
31:P4:26:LEU:CD2	31:P4:88:GLU:HG3	2.48	0.43
33:R4:13:ALA:O	33:R4:16:ILE:HG22	2.18	0.43
8:f5:105:TYR:CE2	8:f5:131:PHE:CD2	2.97	0.43
11:G5:75:LEU:HD22	21:i5:1791:A:C5'	2.49	0.43
11:G5:143:LYS:CG	21:i5:1778:C:C5'	2.66	0.43
12:J5:4:ALA:H	12:J5:5:ARG:NE	2.17	0.43
14:N5:4:MET:HE2	14:N5:5:HIS:HE2	1.83	0.43
17:Y5:28:LEU:HG	17:Y5:30:PRO:HD3	2.00	0.43
21:i5:456:C:O2'	21:i5:1800:A:C2	2.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1269:G:N2	21:i5:1514:G:N3	2.66	0.43
21:i5:1689:C:C3'	21:i5:1690:U:H5'	2.48	0.43
25:E5:61:VAL:HG12	25:E5:80:ILE:HG23	2.00	0.43
26:F5:110:GLN:O	26:F5:114:ASN:ND2	2.51	0.43
32:Q5:37:ARG:HA	32:Q5:38:PRO:HD3	1.90	0.43
32:Q5:109:LYS:HE2	32:Q5:120:LEU:HD21	1.99	0.43
34:S5:48:ALA:HB2	34:S5:70:ILE:HD12	2.00	0.43
1:T6:82:ARG:HG3	1:T6:90:SER:HB2	2.00	0.43
4:X6:49:GLY:O	4:X6:100:VAL:HG22	2.18	0.43
11:G6:4:ASN:HB2	11:G6:110:ASN:OD1	2.19	0.43
11:G6:193:ALA:HB2	21:i6:331:C:OP2	2.18	0.43
17:Y6:8:ARG:O	17:Y6:9:THR:OG1	2.33	0.43
17:Y6:59:GLY:O	21:i6:572:U:H5''	2.18	0.43
17:Y6:86:GLU:HG3	17:Y6:90:ARG:HB2	2.01	0.43
21:i6:561:A:C8	21:i6:561:A:O5'	2.71	0.43
21:i6:594:A:O4'	21:i6:643:A:N6	2.52	0.43
21:i6:895:G:H2'	21:i6:896:U:H4'	2.00	0.43
21:i6:996:A:O2'	21:i6:997:A:OP2	2.30	0.43
21:i6:1215:C:O2'	21:i6:1645:C:OP2	2.37	0.43
21:i6:1244:U:H2'	21:i6:1245:G:C8	2.52	0.43
21:i6:1357:A:O5'	21:i6:1357:A:C8	2.71	0.43
21:i6:1545:A:C6	21:i6:1546:G:C6	3.06	0.43
26:F6:41:VAL:HG11	26:F6:68:ILE:HG12	2.00	0.43
32:Q6:4:LYS:HZ3	32:Q6:99:TYR:HA	1.66	0.43
36:k3:9:GLU:O	36:k3:56:HIS:CE1	2.72	0.43
36:k3:145:VAL:HB	36:k3:167:ILE:CB	2.49	0.43
36:k5:9:GLU:O	36:k5:56:HIS:CE1	2.72	0.43
37:l3:148:PHE:HZ	37:l3:166:ILE:HG23	1.83	0.43
37:l3:161:GLU:N	37:l3:161:GLU:OE1	2.52	0.43
37:l4:161:GLU:N	37:l4:161:GLU:OE1	2.52	0.43
37:l5:136:THR:HG22	37:l5:137:PHE:HB3	2.01	0.43
4:X1:95:GLU:HB2	4:X1:98:ASP:OD2	2.18	0.43
8:f1:96:LYS:HZ1	21:i1:1306:U:C5'	2.29	0.43
17:Y1:20:ARG:HH11	17:Y1:74:MET:HA	1.82	0.43
19:b1:35:VAL:CG2	19:b1:73:LEU:HD21	2.48	0.43
21:i1:12:U:C4'	21:i1:1357:A:H4'	2.47	0.43
21:i1:1476:A:H3'	21:i1:1476:A:N3	2.34	0.43
21:i1:1643:U:O2'	21:i1:1644:C:H6	2.02	0.43
25:E1:36:HIS:ND1	25:E1:41:CYS:HB3	2.33	0.43
27:H1:63:PHE:HA	27:H1:95:ILE:O	2.19	0.43
2:U2:28:ASN:ND2	2:U2:30:LYS:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d2:16:GLN:NE2	7:d2:27:ARG:O	2.35	0.43
9:g2:294:ASP:OD1	9:g2:295:GLY:N	2.52	0.43
11:G2:164:LYS:HB2	21:i2:67:C:N4	2.33	0.43
13:M2:95:ASP:HB2	13:M2:99:LYS:HB2	2.00	0.43
14:N2:90:HIS:HA	14:N2:93:LYS:HE3	2.01	0.43
15:O2:135:ILE:O	21:i2:943:U:O2'	2.35	0.43
20:e2:36:MET:CE	21:i2:553:U:C5'	2.96	0.43
21:i2:327:G:H1'	21:i2:328:U:O4'	2.18	0.43
21:i2:480:G:H2'	21:i2:481:C:O4'	2.18	0.43
21:i2:1753:C:C6	21:i2:1753:C:O5'	2.72	0.43
22:A2:90:PHE:CD1	22:A2:179:ALA:HB2	2.53	0.43
23:B2:221:PRO:C	23:B2:223:PHE:H	2.27	0.43
30:L2:147:LYS:HB2	30:L2:148:ALA:H	1.68	0.43
32:Q2:116:ASP:O	32:Q2:118:THR:N	2.52	0.43
34:S2:123:LEU:HD22	34:S2:127:TRP:CZ2	2.53	0.43
4:X3:95:GLU:HB2	4:X3:98:ASP:OD2	2.18	0.43
8:f3:132:MET:HG2	8:f3:141:CYS:HB2	2.01	0.43
11:G3:65:GLN:HE22	21:i3:1746:U:H4'	1.84	0.43
14:N3:26:LEU:O	14:N3:26:LEU:HG	2.17	0.43
17:Y3:10:ARG:HB2	21:i3:833:C:H41	1.83	0.43
19:b3:62:VAL:HG22	19:b3:64:CYS:H	1.83	0.43
20:e3:46:VAL:HG22	20:e3:46:VAL:O	2.19	0.43
21:i3:30:C:O2'	21:i3:596:U:OP1	2.24	0.43
21:i3:464:A:OP2	21:i3:465:A:N6	2.51	0.43
21:i3:1054:G:C2	21:i3:1055:A:H1'	2.54	0.43
21:i3:1217:A:H2'	21:i3:1218:C:C6	2.54	0.43
21:i3:1413:G:H5''	21:i3:1414:A:OP2	2.19	0.43
21:i3:1476:A:H3'	21:i3:1476:A:N3	2.34	0.43
21:i3:1777:G:H2'	21:i3:1778:C:N1	2.33	0.43
24:D3:43:PRO:O	24:D3:44:THR:OG1	2.32	0.43
31:P3:26:LEU:CD2	31:P3:88:GLU:HG3	2.48	0.43
9:g4:89:LEU:O	9:g4:97:THR:HA	2.18	0.43
9:g4:226:HIS:CE1	24:D4:222:PRO:HG2	2.54	0.43
10:C4:272:HIS:C	10:C4:274:VAL:N	2.74	0.43
15:O4:51:GLU:OE2	23:B4:65:ARG:NH2	2.50	0.43
19:b4:36:LYS:N	19:b4:78:SER:O	2.48	0.43
21:i4:480:G:H2'	21:i4:481:C:O4'	2.18	0.43
21:i4:913:A:N6	27:H4:98:ARG:HB3	2.33	0.43
22:A4:77:ILE:HA	22:A4:99:ILE:O	2.19	0.43
23:B4:125:VAL:HG12	23:B4:169:MET:HE3	2.00	0.43
24:D4:146:ARG:HH11	24:D4:147:ALA:H	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E4:151:ASP:OD2	25:E4:153:LEU:HB2	2.19	0.43
28:I4:107:THR:OG1	28:I4:108:PRO:HD3	2.19	0.43
28:I4:197:PHE:HA	28:I4:200:ARG:CG	2.48	0.43
30:L4:125:ILE:HB	30:L4:146:THR:O	2.19	0.43
31:P4:94:VAL:O	31:P4:105:VAL:HB	2.19	0.43
4:X5:114:ASP:OD2	21:i5:618:C:N4	2.52	0.43
4:X5:125:VAL:O	4:X5:127:ASN:N	2.51	0.43
9:g5:194:TYR:CE2	9:g5:212:LYS:HB2	2.53	0.43
9:g5:226:HIS:CE1	24:D5:222:PRO:HG2	2.53	0.43
10:C5:255:LEU:C	10:C5:257:LYS:H	2.26	0.43
12:J5:39:ASN:HB2	21:i5:642:U:P	2.58	0.43
15:O5:35:ALA:HB3	15:O5:98:ARG:O	2.19	0.43
21:i5:312:G:C5'	21:i5:313:A:H5'	2.49	0.43
21:i5:467:G:H2'	21:i5:468:A:H8	1.83	0.43
21:i5:896:U:O4	21:i5:898:U:N3	2.52	0.43
21:i5:1054:G:C2	21:i5:1055:A:H1'	2.54	0.43
24:D5:64:ARG:HG3	29:K5:95:ARG:HH22	1.76	0.43
24:D5:70:THR:O	24:D5:74:GLN:HG2	2.18	0.43
24:D5:92:ALA:O	24:D5:93:THR:OG1	2.27	0.43
30:L5:13:GLN:HG2	30:L5:36:TYR:HB3	2.00	0.43
32:Q5:13:PHE:HA	32:Q5:21:ALA:O	2.19	0.43
32:Q5:24:HIS:HE1	32:Q5:69:ARG:HB2	1.82	0.43
32:Q5:134:GLY:HA3	32:Q5:141:TYR:N	2.34	0.43
2:U6:17:ILE:HB	2:U6:94:PRO:HA	1.99	0.43
7:d6:29:GLY:O	7:d6:40:ARG:N	2.50	0.43
12:J6:136:ARG:HD3	12:J6:160:SER:HA	2.01	0.43
16:W6:57:ARG:NH1	19:b6:26:GLN:OE1	2.52	0.43
21:i6:315:C:O5'	21:i6:315:C:C6	2.70	0.43
21:i6:467:G:H2'	21:i6:468:A:H8	1.83	0.43
21:i6:667:U:H5''	21:i6:1087:A:C5	2.54	0.43
21:i6:809:A:H4'	25:E6:221:ARG:CZ	2.49	0.43
21:i6:1397:U:O4	32:Q6:12:VAL:HA	2.18	0.43
21:i6:1454:A:H5'	33:R6:5:ARG:HH22	1.84	0.43
21:i6:1454:A:C5'	33:R6:5:ARG:HH22	2.31	0.43
21:i6:1583:C:H3'	21:i6:1584:G:H8	1.83	0.43
23:B6:128:LYS:HG3	23:B6:129:THR:O	2.18	0.43
26:F6:49:LEU:HD11	32:Q6:49:TYR:HB3	2.00	0.43
36:k1:39:TRP:CD1	36:k1:90:PHE:CE1	3.07	0.43
36:k2:50:VAL:HG12	36:k2:64:VAL:HG22	2.00	0.43
36:k6:102:ILE:HD12	36:k6:103:LYS:N	2.33	0.43
37:l1:130:ARG:C	37:l1:131:VAL:HG23	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l1:187:ASP:HB3	37:l1:188:ASP:H	1.60	0.43
37:l4:130:ARG:C	37:l4:131:VAL:HG23	2.42	0.43
37:l5:136:THR:HA	37:l5:137:PHE:HA	1.78	0.43
4:X1:15:SER:O	4:X1:18:ARG:HG2	2.18	0.43
8:f1:80:ARG:NH2	21:i1:1503:C:O2'	2.52	0.43
8:f1:105:TYR:CD2	8:f1:106:TYR:CD2	2.96	0.43
9:g1:218:LEU:HB3	9:g1:227:LEU:HD12	2.01	0.43
12:J1:76:ALA:N	25:E1:252:ARG:HH22	2.17	0.43
21:i1:809:A:H4'	25:E1:221:ARG:CZ	2.49	0.43
21:i1:872:A:O2'	21:i1:873:G:H8	2.01	0.43
21:i1:903:A:H2'	21:i1:904:A:C5	2.54	0.43
21:i1:1154:U:OP1	21:i1:1156:U:H5'	2.18	0.43
21:i1:1269:G:N2	21:i1:1514:G:N3	2.66	0.43
21:i1:1700:C:O2	21:i1:1834:A:N6	2.52	0.43
25:E1:31:PRO:HB3	25:E1:43:PRO:HB3	2.00	0.43
27:H1:157:HIS:HB3	27:H1:190:PRO:HG3	2.00	0.43
29:K1:10:ALA:O	29:K1:14:LEU:N	2.37	0.43
32:Q1:134:GLY:HA3	32:Q1:141:TYR:N	2.33	0.43
33:R1:61:ILE:HA	33:R1:73:LEU:HD22	1.99	0.43
1:T2:82:ARG:HH12	21:i2:1590:C:P	2.41	0.43
2:U2:61:LEU:H	2:U2:81:GLN:NE2	2.17	0.43
5:a2:43:ASN:OD1	5:a2:66:LYS:NZ	2.48	0.43
9:g2:270:LEU:HD11	9:g2:310:TRP:NE1	2.33	0.43
10:C2:255:LEU:C	10:C2:257:LYS:H	2.26	0.43
21:i2:800:U:H3	21:i2:865:A:H2	1.62	0.43
21:i2:1454:A:C5'	33:R2:5:ARG:HH22	2.31	0.43
23:B2:68:GLU:HA	23:B2:84:PHE:O	2.19	0.43
32:Q2:4:LYS:HZ3	32:Q2:99:TYR:HA	1.64	0.43
34:S2:108:ARG:O	34:S2:112:GLU:HG2	2.19	0.43
1:T3:82:ARG:HG3	1:T3:90:SER:HB2	2.01	0.43
8:f3:114:ILE:HD13	13:M3:68:LEU:HD23	2.00	0.43
12:J3:169:ARG:NH2	12:J3:170:PRO:HG2	2.33	0.43
14:N3:83:ASP:HB3	14:N3:150:VAL:O	2.18	0.43
16:W3:3:ARG:HD3	16:W3:9:ASP:OD2	2.19	0.43
21:i3:480:G:H2'	21:i3:481:C:O4'	2.18	0.43
21:i3:594:A:O4'	21:i3:643:A:N6	2.52	0.43
21:i3:1841:C:OP1	35:j3:2:ARG:HD3	2.19	0.43
22:A3:152:SER:HA	22:A3:153:PRO:HD2	1.91	0.43
24:D3:75:LYS:NZ	29:K3:18:GLU:HG2	2.34	0.43
24:D3:126:ILE:HG21	24:D3:134:CYS:HB3	2.01	0.43
26:F3:110:GLN:O	26:F3:114:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F3:113:VAL:O	26:F3:117:ILE:HG12	2.18	0.43
32:Q3:116:ASP:O	32:Q3:118:THR:N	2.52	0.43
34:S3:123:LEU:HD22	34:S3:127:TRP:CZ2	2.53	0.43
1:T4:40:ALA:HB2	1:T4:96:SER:N	2.34	0.43
4:X4:88:ASP:OD2	20:e4:12:VAL:CG2	2.67	0.43
4:X4:95:GLU:HB2	4:X4:98:ASP:OD2	2.18	0.43
4:X4:125:VAL:O	4:X4:127:ASN:N	2.51	0.43
8:f4:132:MET:HG2	8:f4:141:CYS:HB2	2.01	0.43
12:J4:4:ALA:H	12:J4:5:ARG:NE	2.17	0.43
12:J4:9:CYS:HB3	21:i4:519:A:O2'	2.19	0.43
12:J4:28:GLU:HA	12:J4:31:LEU:HD13	2.01	0.43
15:O4:92:ALA:CB	15:O4:125:LYS:HB2	2.48	0.43
16:W4:57:ARG:NH1	19:b4:26:GLN:OE1	2.52	0.43
21:i4:115:U:H2'	21:i4:116:U:C6	2.54	0.43
21:i4:530:U:N3	21:i4:531:A:N7	2.67	0.43
21:i4:1422:G:H1'	21:i4:1424:G:C8	2.53	0.43
21:i4:1455:A:OP1	33:R4:5:ARG:NH1	2.52	0.43
21:i4:1545:A:C6	21:i4:1546:G:C6	3.06	0.43
25:E4:36:HIS:ND1	25:E4:41:CYS:HB3	2.34	0.43
30:L4:114:SER:HA	30:L4:115:PRO:HD3	1.91	0.43
1:T5:115:LYS:HA	1:T5:121:ARG:HA	2.01	0.43
2:U5:91:LEU:HB3	2:U5:93:SER:HB3	2.01	0.43
4:X5:61:GLN:N	4:X5:62:PRO:HD2	2.34	0.43
7:d5:11:PRO:HB3	7:d5:13:LYS:HZ3	1.83	0.43
9:g5:47:ARG:HA	9:g5:52:TYR:CD1	2.53	0.43
12:J5:30:LYS:CA	20:e5:38:TYR:CD1	2.88	0.43
21:i5:590:A:O2'	21:i5:591:U:O4'	2.37	0.43
21:i5:822:U:H5''	21:i5:824:C:P	2.58	0.43
21:i5:1058:A:H2'	21:i5:1059:G:O4'	2.18	0.43
21:i5:1113:A:H1'	21:i5:1121:G:H1	1.83	0.43
21:i5:1215:C:O2'	21:i5:1645:C:OP2	2.37	0.43
21:i5:1350:U:H3	21:i5:1379:A:H61	1.66	0.43
21:i5:1455:A:OP1	33:R5:5:ARG:NH1	2.52	0.43
21:i5:1700:C:O2	21:i5:1834:A:N6	2.47	0.43
22:A5:80:ARG:HH22	22:A5:166:LYS:HG2	1.82	0.43
25:E5:127:ARG:NE	25:E5:142:HIS:HA	2.33	0.43
30:L5:5:GLN:O	30:L5:7:GLU:N	2.46	0.43
33:R5:13:ALA:O	33:R5:16:ILE:HG22	2.19	0.43
1:T6:115:LYS:HA	1:T6:121:ARG:HA	2.01	0.43
9:g6:35:SER:OG	9:g6:36:ARG:N	2.51	0.43
12:J6:76:ALA:N	25:E6:252:ARG:HH22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:123:G:O3'	25:E6:148:ARG:NH1	2.50	0.43
21:i6:731:G:HO2'	21:i6:732:U:P	2.36	0.43
21:i6:1054:G:C2	21:i6:1055:A:H1'	2.54	0.43
21:i6:1455:A:OP1	33:R6:5:ARG:NH1	2.52	0.43
31:P6:81:ARG:HB3	31:P6:117:GLY:CA	2.44	0.43
36:k1:170:LEU:O	36:k1:172:ASP:N	2.52	0.43
36:k3:50:VAL:HG12	36:k3:64:VAL:HG22	2.00	0.43
36:k3:79:TYR:CE1	36:k3:131:ILE:HG12	2.54	0.43
36:k5:140:GLN:CG	36:k5:141:HIS:ND1	2.80	0.43
37:l2:148:PHE:HZ	37:l2:166:ILE:HG23	1.83	0.43
37:l2:161:GLU:OE1	37:l2:161:GLU:N	2.52	0.43
2:U1:26:SER:HB2	2:U1:32:LEU:HD22	1.99	0.43
11:G1:65:GLN:NE2	21:i1:1746:U:C4'	2.82	0.43
11:G1:77:LEU:N	11:G1:93:LYS:O	2.44	0.43
12:J1:28:GLU:HA	12:J1:31:LEU:HD13	2.01	0.43
16:W1:57:ARG:NH1	19:b1:26:GLN:OE1	2.52	0.43
17:Y1:56:PHE:HB2	17:Y1:74:MET:HB3	2.01	0.43
21:i1:52:G:OP1	8:f2:110:GLU:HG2	2.17	0.43
21:i1:115:U:H2'	21:i1:116:U:C6	2.54	0.43
21:i1:895:G:H2'	21:i1:896:U:H4'	2.01	0.43
21:i1:958:G:N3	21:i1:958:G:H2'	2.34	0.43
21:i1:1422:G:H1'	21:i1:1424:G:C8	2.53	0.43
23:B1:100:PHE:HZ	23:B1:215:VAL:HG11	1.84	0.43
24:D1:70:THR:O	24:D1:74:GLN:HG2	2.18	0.43
25:E1:103:TYR:HB3	25:E1:107:GLY:HA2	2.01	0.43
25:E1:132:GLY:N	25:E1:136:ILE:O	2.47	0.43
25:E1:151:ASP:OD2	25:E1:153:LEU:HB2	2.19	0.43
31:P1:94:VAL:O	31:P1:105:VAL:HB	2.19	0.43
34:S1:108:ARG:O	34:S1:112:GLU:HG2	2.18	0.43
6:c2:13:ARG:HA	6:c2:54:ASP:O	2.19	0.43
9:g2:191:HIS:CG	9:g2:192:THR:N	2.86	0.43
18:Z2:66:LYS:HB2	18:Z2:111:ARG:HD2	2.01	0.43
21:i2:118:C:H2'	21:i2:119:U:O4'	2.19	0.43
21:i2:587:A:H1'	21:i2:589:G:H22	1.83	0.43
21:i2:872:A:O2'	21:i2:873:G:H8	2.02	0.43
21:i2:1142:G:H2'	21:i2:1144:A:OP2	2.19	0.43
21:i2:1413:G:H5''	21:i2:1414:A:OP2	2.19	0.43
21:i2:1521:C:H41	34:S2:137:LYS:HD2	1.83	0.43
21:i2:1523:C:C5	34:S2:141:ARG:CZ	3.02	0.43
21:i2:1748:G:C6	21:i2:1749:G:C4	3.07	0.43
21:i2:1748:G:N1	21:i2:1749:G:C4	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B2:167:LYS:O	23:B2:171:ILE:HG12	2.18	0.43
28:I2:107:THR:OG1	28:I2:108:PRO:HD3	2.19	0.43
28:I2:125:LYS:CD	15:O5:66:ARG:CZ	2.87	0.43
4:X3:49:GLY:O	4:X3:100:VAL:HG22	2.18	0.43
8:f3:87:THR:HG21	8:f3:90:LYS:HZ3	1.66	0.43
11:G3:4:ASN:HB2	11:G3:110:ASN:OD1	2.19	0.43
11:G3:58:LYS:HE3	11:G3:105:ASN:HB2	2.00	0.43
11:G3:208:GLU:OE2	25:E3:168:LYS:HE2	2.18	0.43
16:W3:57:ARG:NH1	19:b3:26:GLN:OE1	2.52	0.43
17:Y3:56:PHE:HB2	17:Y3:74:MET:HB3	2.01	0.43
18:Z3:91:LEU:HD23	18:Z3:91:LEU:HA	1.78	0.43
21:i3:535:G:H22	21:i3:548:C:H42	1.67	0.43
21:i3:895:G:H2'	21:i3:896:U:H4'	2.01	0.43
21:i3:970:G:H2'	28:I6:200:ARG:HH22	1.84	0.43
21:i3:1070:A:OP2	36:k3:18:LYS:CD	2.67	0.43
21:i3:1455:A:OP1	33:R3:5:ARG:NH1	2.52	0.43
21:i3:1643:U:O2'	21:i3:1644:C:H6	2.02	0.43
21:i3:1849:G:H5''	37:l3:146:ARG:NH2	2.34	0.43
23:B3:125:VAL:HG12	23:B3:169:MET:HE3	1.99	0.43
23:B3:167:LYS:O	23:B3:171:ILE:HG12	2.18	0.43
24:D3:106:ARG:O	24:D3:110:LEU:N	2.39	0.43
31:P3:37:TYR:OH	31:P3:87:PRO:HD3	2.19	0.43
33:R3:13:ALA:O	33:R3:16:ILE:HG22	2.19	0.43
34:S3:107:LEU:O	34:S3:111:LEU:HG	2.18	0.43
4:X4:49:GLY:O	4:X4:100:VAL:HG22	2.18	0.43
9:g4:270:LEU:HD11	9:g4:310:TRP:NE1	2.33	0.43
18:Z4:75:GLU:OE2	21:i5:193:C:H5'	2.19	0.43
18:Z4:86:ALA:HB1	34:S4:3:LEU:CG	2.49	0.43
21:i4:733:C:H3'	21:i4:733:C:O2	2.19	0.43
21:i4:1163:C:H2'	21:i4:1164:G:C8	2.52	0.43
21:i4:1413:G:H5''	21:i4:1414:A:OP2	2.19	0.43
21:i4:1454:A:H5'	33:R4:5:ARG:HH22	1.84	0.43
21:i4:1693:G:N2	21:i4:1834:A:H8	2.11	0.43
27:H4:43:LEU:HB2	27:H4:72:PHE:CZ	2.54	0.43
33:R4:80:ARG:CG	33:R4:80:ARG:NH1	2.80	0.43
34:S4:105:ASN:HD22	34:S4:108:ARG:HH21	1.67	0.43
1:T5:5:THR:OG1	1:T5:6:VAL:N	2.44	0.43
1:T5:82:ARG:HG3	1:T5:90:SER:HB2	2.01	0.43
2:U5:61:LEU:H	2:U5:81:GLN:NE2	2.17	0.43
11:G5:153:VAL:O	11:G5:154:ARG:C	2.62	0.43
16:W5:41:MET:HG2	16:W5:129:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y5:59:GLY:O	21:i5:572:U:H5''	2.19	0.43
19:b5:62:VAL:HG22	19:b5:64:CYS:H	1.83	0.43
21:i5:61:A:O4'	21:i5:317:C:C2'	2.67	0.43
21:i5:118:C:H2'	21:i5:119:U:O4'	2.19	0.43
21:i5:594:A:O4'	21:i5:643:A:N6	2.52	0.43
21:i5:1142:G:H2'	21:i5:1144:A:OP2	2.19	0.43
21:i5:1235:G:H1	21:i5:1523:C:N4	2.14	0.43
21:i5:1236:G:C4'	31:P5:133:ILE:HB	2.48	0.43
21:i5:1747:C:H42	21:i5:1787:G:H1	1.65	0.43
24:D5:64:ARG:CG	29:K5:95:ARG:NH1	2.62	0.43
26:F5:49:LEU:HD11	32:Q5:49:TYR:HB3	1.99	0.43
26:F5:113:VAL:O	26:F5:117:ILE:HG12	2.18	0.43
30:L5:153:LYS:NZ	30:L5:153:LYS:HB3	2.34	0.43
31:P5:118:GLU:O	31:P5:118:GLU:HG3	2.19	0.43
34:S5:108:ARG:O	34:S5:112:GLU:HG2	2.19	0.43
2:U6:76:THR:HA	32:Q6:132:PHE:CE2	2.54	0.43
4:X6:61:GLN:N	4:X6:62:PRO:HD2	2.34	0.43
8:f6:132:MET:HG2	8:f6:141:CYS:HB2	2.01	0.43
9:g6:194:TYR:CE2	9:g6:212:LYS:HB2	2.54	0.43
10:C6:65:LYS:N	10:C6:277:HIS:CE1	2.86	0.43
10:C6:242:ASP:HA	10:C6:245:SER:OG	2.19	0.43
10:C6:274:VAL:HA	10:C6:275:LYS:HA	1.79	0.43
12:J6:32:ILE:HD11	12:J6:40:LYS:HG2	2.01	0.43
12:J6:169:ARG:NH2	12:J6:170:PRO:HG2	2.33	0.43
13:M6:40:LYS:HZ3	21:i6:1310:U:H5'	1.75	0.43
13:M6:51:VAL:HB	13:M6:109:VAL:HB	2.01	0.43
15:O6:135:ILE:O	21:i6:943:U:O2'	2.35	0.43
21:i6:733:C:N4	27:H6:149:ASP:O	2.52	0.43
21:i6:896:U:O4	21:i6:898:U:N3	2.52	0.43
21:i6:1849:G:OP2	37:l6:146:ARG:CG	2.58	0.43
24:D6:135:GLU:CD	24:D6:157:MET:HG2	2.44	0.43
30:L6:114:SER:HA	30:L6:115:PRO:HD3	1.91	0.43
32:Q6:24:HIS:HE1	32:Q6:69:ARG:HB2	1.82	0.43
34:S6:48:ALA:HB2	34:S6:70:ILE:HD12	2.00	0.43
36:k1:7:GLU:OE1	36:k1:177:MET:O	2.36	0.43
36:k1:92:LEU:HD23	36:k1:93:PRO:CD	2.46	0.43
36:k4:9:GLU:O	36:k4:56:HIS:CE1	2.72	0.43
37:l4:128:VAL:CG2	37:l4:166:ILE:C	2.70	0.43
37:l4:139:ILE:HG22	37:l4:140:ASP:H	1.83	0.43
37:l6:161:GLU:N	37:l6:161:GLU:OE1	2.52	0.43
2:U1:28:ASN:ND2	2:U1:30:LYS:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:61:LEU:H	2:U1:81:GLN:HE22	1.67	0.42
3:V1:36:VAL:HG12	3:V1:37:ALA:N	2.33	0.42
11:G1:153:VAL:O	11:G1:154:ARG:C	2.62	0.42
12:J1:32:ILE:HD11	12:J1:40:LYS:HG2	2.00	0.42
18:Z1:55:TYR:HB3	18:Z1:59:CYS:SG	2.59	0.42
21:i1:319:C:H5'	21:i1:320:G:OP2	2.19	0.42
21:i1:464:A:OP2	21:i1:465:A:N6	2.51	0.42
21:i1:535:G:N2	21:i1:537:C:H1'	2.33	0.42
21:i1:913:A:N6	27:H1:98:ARG:HB3	2.33	0.42
21:i1:1035:A:H2'	21:i1:1036:A:O4'	2.19	0.42
21:i1:1037:G:N1	21:i1:1078:C:O2	2.50	0.42
21:i1:1083:A:N7	21:i1:1841:C:O2'	2.52	0.42
21:i1:1349:G:O6	21:i1:1379:A:N6	2.52	0.42
21:i1:1350:U:H3	21:i1:1379:A:H61	1.66	0.42
26:F1:96:ALA:HA	26:F1:99:ILE:HG22	2.01	0.42
28:I1:37:LYS:O	28:I1:60:LEU:N	2.39	0.42
32:Q1:24:HIS:HE1	32:Q1:69:ARG:HB2	1.83	0.42
8:f2:132:MET:HG2	8:f2:141:CYS:HB2	2.01	0.42
11:G2:143:LYS:HD3	21:i2:1777:G:P	2.59	0.42
16:W2:124:LYS:NZ	21:i2:863:U:O2	2.39	0.42
17:Y2:59:GLY:O	21:i2:572:U:H5''	2.19	0.42
18:Z2:86:ALA:HB1	34:S2:3:LEU:CG	2.49	0.42
21:i2:339:A:O2'	21:i2:340:C:O5'	2.35	0.42
21:i2:809:A:H4'	25:E2:221:ARG:CZ	2.50	0.42
21:i2:913:A:N6	27:H2:98:ARG:HB3	2.33	0.42
21:i2:1832:A:H8	21:i2:1832:A:O5'	2.02	0.42
23:B2:37:ALA:O	23:B2:39:PHE:N	2.47	0.42
26:F2:41:VAL:HG11	26:F2:68:ILE:HG12	1.99	0.42
26:F2:133:THR:HG21	26:F2:135:ARG:NE	2.32	0.42
26:F2:140:ASP:OD1	26:F2:141:VAL:N	2.51	0.42
31:P2:118:GLU:O	31:P2:118:GLU:HG3	2.19	0.42
2:U3:28:ASN:ND2	2:U3:30:LYS:HB3	2.34	0.42
6:c3:13:ARG:HA	6:c3:54:ASP:O	2.19	0.42
9:g3:6:THR:O	9:g3:8:ARG:NH1	2.51	0.42
11:G3:153:VAL:O	11:G3:154:ARG:C	2.62	0.42
12:J3:32:ILE:HD11	12:J3:40:LYS:HG2	2.01	0.42
12:J3:76:ALA:N	25:E3:252:ARG:HH22	2.17	0.42
18:Z3:66:LYS:HB2	18:Z3:111:ARG:HD2	2.01	0.42
18:Z3:86:ALA:HB1	34:S3:3:LEU:CG	2.49	0.42
21:i3:319:C:H5'	21:i3:320:G:OP2	2.19	0.42
21:i3:345:U:H1'	25:E3:33:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:1069:U:H4'	36:k3:16:GLN:CG	2.49	0.42
21:i3:1113:A:H1'	21:i3:1121:G:H1	1.83	0.42
25:E3:123:LEU:HD12	25:E3:160:ILE:O	2.19	0.42
29:K3:89:ILE:O	29:K3:91:PRO:HD3	2.19	0.42
4:X4:61:GLN:N	4:X4:62:PRO:HD2	2.34	0.42
9:g4:84:ASP:OD1	9:g4:84:ASP:N	2.49	0.42
9:g4:127:LYS:NZ	33:R4:37:GLU:OE2	2.52	0.42
11:G4:7:PHE:HA	11:G4:8:PRO:HD2	1.90	0.42
11:G4:58:LYS:HE3	11:G4:105:ASN:HB2	2.00	0.42
15:O4:46:ASP:O	15:O4:49:GLY:N	2.39	0.42
19:b4:62:VAL:HG22	19:b4:64:CYS:H	1.83	0.42
21:i4:345:U:H1'	25:E4:33:THR:HG23	2.01	0.42
21:i4:467:G:H2'	21:i4:468:A:H8	1.84	0.42
21:i4:594:A:O4'	21:i4:643:A:N6	2.52	0.42
21:i4:1054:G:C2	21:i4:1055:A:H1'	2.54	0.42
21:i4:1217:A:H2'	21:i4:1218:C:C6	2.54	0.42
21:i4:1238:U:C4	21:i4:1239:U:C2	3.06	0.42
21:i4:1511:U:O2'	21:i4:1512:C:O5'	2.32	0.42
23:B4:68:GLU:HA	23:B4:84:PHE:O	2.19	0.42
23:B4:221:PRO:C	23:B4:223:PHE:H	2.26	0.42
26:F4:136:ARG:O	26:F4:203:ASN:CB	2.67	0.42
29:K4:89:ILE:O	29:K4:91:PRO:HD3	2.19	0.42
33:R4:73:LEU:HD23	33:R4:73:LEU:HA	1.82	0.42
9:g5:245:ARG:O	9:g5:247:TRP:N	2.52	0.42
11:G5:180:VAL:HG22	21:i5:143:U:H5	1.83	0.42
12:J5:30:LYS:HA	20:e5:38:TYR:HD1	1.71	0.42
16:W5:3:ARG:HD3	16:W5:9:ASP:OD2	2.19	0.42
16:W5:4:MET:SD	21:i5:682:U:O2'	2.70	0.42
21:i5:315:C:C6	21:i5:315:C:C3'	3.02	0.42
21:i5:317:C:C6	21:i5:317:C:C3'	3.02	0.42
21:i5:667:U:H5''	21:i5:1087:A:C5	2.54	0.42
21:i5:733:C:O2	21:i5:733:C:H3'	2.19	0.42
21:i5:927:C:H2'	21:i5:928:G:C8	2.54	0.42
21:i5:1454:A:H5'	33:R5:5:ARG:HH22	1.84	0.42
21:i5:1689:C:H2'	21:i5:1690:U:H5'	2.01	0.42
29:K5:2:LEU:HD12	29:K5:3:MET:HB2	2.02	0.42
31:P5:94:VAL:O	31:P5:105:VAL:HB	2.19	0.42
19:b6:62:VAL:HG22	19:b6:64:CYS:H	1.83	0.42
21:i6:1849:G:C6	37:l6:149:ALA:O	2.70	0.42
23:B6:100:PHE:HZ	23:B6:215:VAL:HG11	1.84	0.42
27:H6:18:GLU:HG2	27:H6:19:PHE:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:K6:59:LYS:O	29:K6:70:TYR:N	2.37	0.42
31:P6:94:VAL:O	31:P6:105:VAL:HB	2.19	0.42
32:Q6:134:GLY:HA3	32:Q6:141:TYR:N	2.33	0.42
34:S6:123:LEU:HD22	34:S6:127:TRP:CZ2	2.53	0.42
36:k1:143:LEU:O	36:k1:169:TYR:HA	2.17	0.42
36:k2:83:ARG:NE	36:k2:175:TRP:CD2	2.86	0.42
36:k2:95:GLN:OE1	36:k2:95:GLN:HA	2.16	0.42
37:l2:185:VAL:HA	37:l2:186:ASP:HA	1.51	0.42
37:l5:128:VAL:CG1	37:l5:166:ILE:C	2.70	0.42
37:l5:161:GLU:N	37:l5:161:GLU:OE1	2.52	0.42
1:T1:115:LYS:HA	1:T1:121:ARG:HA	2.01	0.42
4:X1:60:LYS:HG2	4:X1:114:ASP:O	2.20	0.42
9:g1:143:GLN:HB3	9:g1:144:ASP:H	1.65	0.42
11:G1:7:PHE:HA	11:G1:8:PRO:HD2	1.90	0.42
11:G1:66:GLY:HA3	21:i1:1745:A:C8	2.54	0.42
11:G1:221:LYS:HA	11:G1:224:ARG:HB3	2.00	0.42
15:O1:35:ALA:HB3	15:O1:98:ARG:O	2.19	0.42
16:W1:80:ASP:OD2	21:i1:803:C:H4'	2.19	0.42
21:i1:565:G:N1	21:i1:586:G:H1'	2.34	0.42
21:i1:927:C:H2'	21:i1:928:G:C8	2.54	0.42
21:i1:980:A:HO2'	21:i1:981:A:P	2.42	0.42
21:i1:1119:A:C6	21:i1:1120:U:H1'	2.55	0.42
21:i1:1328:G:H1	21:i1:1501:C:N4	2.16	0.42
21:i1:1521:C:H41	34:S1:137:LYS:HD2	1.83	0.42
21:i1:1523:C:C5	34:S1:141:ARG:CZ	3.03	0.42
23:B1:68:GLU:HA	23:B1:84:PHE:O	2.19	0.42
25:E1:184:THR:HA	25:E1:189:LEU:HB2	2.02	0.42
29:K1:19:GLY:N	29:K1:92:ALA:HB2	2.32	0.42
2:U2:17:ILE:HB	2:U2:94:PRO:HA	1.99	0.42
2:U2:91:LEU:HB3	2:U2:93:SER:HB3	2.01	0.42
5:a2:45:VAL:HG11	5:a2:64:LEU:HD21	2.00	0.42
11:G2:154:ARG:O	21:i2:77:A:O4'	2.37	0.42
16:W2:3:ARG:HD3	16:W2:9:ASP:OD2	2.19	0.42
17:Y2:37:LYS:O	17:Y2:41:ARG:HG2	2.18	0.42
20:e2:46:VAL:HG22	20:e2:46:VAL:O	2.19	0.42
21:i2:530:U:N3	21:i2:531:A:N7	2.67	0.42
21:i2:1235:G:H1	21:i2:1523:C:N4	2.14	0.42
21:i2:1504:U:H1'	21:i2:1509:U:H5	1.84	0.42
23:B2:103:MET:O	23:B2:103:MET:HG3	2.19	0.42
24:D2:43:PRO:O	24:D2:44:THR:OG1	2.32	0.42
24:D2:135:GLU:CD	24:D2:157:MET:HG2	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:146:ARG:HH11	24:D2:147:ALA:H	1.67	0.42
25:E2:148:ARG:HE	25:E2:149:TYR:HE2	1.66	0.42
30:L2:13:GLN:HG2	30:L2:36:TYR:HB3	2.01	0.42
31:P2:94:VAL:O	31:P2:105:VAL:HB	2.19	0.42
31:P2:115:TYR:CD2	31:P2:115:TYR:N	2.73	0.42
33:R2:98:VAL:HB	33:R2:115:SER:HB3	2.00	0.42
2:U3:76:THR:HA	32:Q3:132:PHE:CE2	2.55	0.42
4:X3:101:LEU:O	4:X3:123:VAL:HG22	2.18	0.42
21:i3:334:C:H5''	21:i3:334:C:H6	1.84	0.42
21:i3:1377:U:H3'	22:A3:102:ARG:HH21	1.82	0.42
22:A3:21:ALA:HB1	22:A3:169:HIS:O	2.20	0.42
25:E3:148:ARG:HE	25:E3:149:TYR:HE2	1.67	0.42
26:F3:140:ASP:OD1	26:F3:141:VAL:N	2.51	0.42
33:R3:9:VAL:O	33:R3:13:ALA:N	2.53	0.42
2:U4:91:LEU:HB3	2:U4:93:SER:HB3	2.01	0.42
5:a4:45:VAL:HG11	5:a4:64:LEU:HD21	2.00	0.42
8:f4:92:LYS:O	21:i4:1304:U:O4'	2.30	0.42
9:g4:294:ASP:OD1	9:g4:295:GLY:N	2.52	0.42
12:J4:76:ALA:N	25:E4:252:ARG:HH22	2.17	0.42
13:M4:61:TYR:OH	13:M4:108:CYS:SG	2.65	0.42
17:Y4:20:ARG:HH11	17:Y4:74:MET:HA	1.82	0.42
18:Z4:55:TYR:HB3	18:Z4:59:CYS:SG	2.59	0.42
19:b4:34:ASP:OD1	19:b4:35:VAL:N	2.52	0.42
23:B4:214:LYS:HD3	23:B4:216:LYS:HD2	2.00	0.42
29:K4:37:ASP:HB3	29:K4:38:LYS:H	1.70	0.42
1:T5:40:ALA:HB2	1:T5:96:SER:N	2.34	0.42
6:c5:13:ARG:HA	6:c5:54:ASP:O	2.19	0.42
11:G5:10:THR:OG1	11:G5:128:THR:HG21	2.19	0.42
12:J5:32:ILE:HD11	12:J5:40:LYS:HG2	2.01	0.42
15:O5:34:PHE:HE1	15:O5:98:ARG:CZ	2.32	0.42
18:Z5:49:LEU:H	18:Z5:83:LEU:HD12	1.81	0.42
21:i5:127:C:O2'	21:i5:184:G:N1	2.50	0.42
21:i5:186:C:H6	21:i5:186:C:H3'	1.85	0.42
21:i5:1202:U:H5'	21:i5:1358:U:O3'	2.19	0.42
21:i5:1454:A:C5'	33:R5:5:ARG:HH22	2.31	0.42
21:i5:1777:G:H2'	21:i5:1778:C:N1	2.33	0.42
23:B5:103:MET:O	23:B5:103:MET:HG3	2.19	0.42
26:F5:137:GLN:HA	26:F5:203:ASN:CG	2.43	0.42
29:K5:5:LYS:O	29:K5:9:ILE:N	2.52	0.42
2:U6:61:LEU:H	2:U6:81:GLN:NE2	2.17	0.42
5:a6:43:ASN:OD1	5:a6:66:LYS:NZ	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a6:45:VAL:HG22	5:a6:49:ALA:HB3	2.00	0.42
8:f6:105:TYR:OH	8:f6:131:PHE:CG	2.48	0.42
9:g6:47:ARG:HA	9:g6:52:TYR:CD1	2.53	0.42
11:G6:10:THR:OG1	11:G6:128:THR:HG21	2.19	0.42
18:Z6:82:SER:HB2	21:i6:1598:G:H8	1.84	0.42
21:i6:496:C:H42	21:i6:506:G:H1	1.65	0.42
21:i6:795:A:N6	27:H6:109:ARG:HH22	2.13	0.42
21:i6:869:A:N6	27:H6:114:GLN:O	2.53	0.42
21:i6:903:A:H2'	21:i6:904:A:C5	2.54	0.42
21:i6:927:C:H2'	21:i6:928:G:C8	2.53	0.42
21:i6:1351:G:C5	21:i6:1352:G:N7	2.87	0.42
21:i6:1673:U:OP1	32:Q6:79:ALA:N	2.50	0.42
21:i6:1752:C:H6	21:i6:1752:C:H3'	1.84	0.42
22:A6:210:ILE:C	22:A6:212:LYS:N	2.76	0.42
23:B6:87:ILE:N	23:B6:99:ASN:O	2.52	0.42
23:B6:103:MET:O	23:B6:103:MET:HG3	2.19	0.42
24:D6:106:ARG:O	24:D6:110:LEU:N	2.39	0.42
25:E6:123:LEU:HD12	25:E6:160:ILE:O	2.19	0.42
37:I4:136:THR:HG22	37:I4:137:PHE:HB3	2.01	0.42
2:U1:61:LEU:H	2:U1:81:GLN:NE2	2.17	0.42
4:X1:61:GLN:N	4:X1:62:PRO:HD2	2.34	0.42
4:X1:114:ASP:OD2	21:i1:618:C:N4	2.52	0.42
10:C1:242:ASP:HA	10:C1:245:SER:OG	2.19	0.42
10:C1:267:GLN:C	10:C1:269:PHE:N	2.74	0.42
12:J1:158:ASP:OD1	12:J1:159:PHE:N	2.44	0.42
13:M1:106:CYS:HG	21:i1:1284:A:N6	2.16	0.42
15:O1:92:ALA:CB	15:O1:125:LYS:HB2	2.48	0.42
16:W1:4:MET:SD	21:i1:682:U:O2'	2.70	0.42
19:b1:62:VAL:HG22	19:b1:64:CYS:H	1.84	0.42
21:i1:118:C:H2'	21:i1:119:U:O4'	2.19	0.42
21:i1:212:C:O5'	21:i1:212:C:H6	2.02	0.42
21:i1:530:U:N3	21:i1:531:A:N7	2.67	0.42
21:i1:733:C:H3'	21:i1:733:C:O2	2.19	0.42
21:i1:819:G:H4'	25:E1:255:ARG:NH2	2.34	0.42
21:i1:1172:U:O4'	35:j1:10:MET:HE2	2.18	0.42
21:i1:1785:C:O2	21:i1:1786:U:N1	2.53	0.42
22:A1:144:THR:N	22:A1:158:ASP:OD2	2.53	0.42
22:A1:210:ILE:C	22:A1:212:LYS:N	2.75	0.42
27:H1:43:LEU:HB2	27:H1:72:PHE:CZ	2.54	0.42
33:R1:98:VAL:HB	33:R1:115:SER:HB3	2.00	0.42
4:X2:60:LYS:HG2	4:X2:114:ASP:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X2:91:LEU:CD2	20:e2:6:LEU:HB2	2.49	0.42
9:g2:106:LYS:HB2	9:g2:126:ASP:CB	2.49	0.42
9:g2:164:ILE:HG23	9:g2:178:ASN:HA	2.01	0.42
10:C2:145:LYS:CD	21:i2:1348:G:C4'	2.97	0.42
12:J2:136:ARG:HD3	12:J2:160:SER:HA	2.01	0.42
21:i2:123:G:O3'	25:E2:148:ARG:NH1	2.50	0.42
21:i2:184:G:H2'	21:i2:185:G:H5'	2.01	0.42
21:i2:291:G:H1'	21:i2:292:A:H5''	2.02	0.42
21:i2:815:U:H2'	21:i2:816:A:C8	2.46	0.42
21:i2:896:U:O4	21:i2:898:U:N3	2.52	0.42
21:i2:932:G:O2'	21:i2:934:G:OP2	2.24	0.42
21:i2:1035:A:H2'	21:i2:1036:A:O4'	2.19	0.42
21:i2:1054:G:C2	21:i2:1055:A:H1'	2.54	0.42
21:i2:1215:C:O2'	21:i2:1645:C:OP2	2.37	0.42
21:i2:1455:A:OP1	33:R2:5:ARG:NH1	2.52	0.42
21:i2:1476:A:H3'	21:i2:1476:A:N3	2.35	0.42
24:D2:75:LYS:NZ	29:K2:18:GLU:HG2	2.34	0.42
25:E2:123:LEU:HD12	25:E2:160:ILE:O	2.20	0.42
26:F2:49:LEU:HD11	32:Q2:49:TYR:HB3	2.00	0.42
27:H2:101:LEU:HA	27:H2:102:PRO:HD3	1.79	0.42
33:R2:9:VAL:O	33:R2:13:ALA:N	2.52	0.42
2:U3:56:MET:HB2	2:U3:86:LYS:HB2	2.02	0.42
10:C3:165:VAL:HG12	10:C3:244:ILE:HB	2.02	0.42
11:G3:221:LYS:HA	11:G3:224:ARG:HB3	2.01	0.42
12:J3:9:CYS:HB3	21:i3:519:A:O2'	2.20	0.42
14:N3:129:TYR:HB3	14:N3:134:VAL:CG1	2.50	0.42
15:O3:51:GLU:OE2	23:B3:65:ARG:NH2	2.49	0.42
17:Y3:28:LEU:HG	17:Y3:30:PRO:HD3	2.00	0.42
17:Y3:37:LYS:O	17:Y3:41:ARG:HG2	2.18	0.42
18:Z3:78:LYS:NZ	21:i6:209:A:O2'	2.52	0.42
21:i3:118:C:H2'	21:i3:119:U:O4'	2.19	0.42
21:i3:211:G:C6	21:i3:212:C:N3	2.88	0.42
21:i3:530:U:N3	21:i3:531:A:N7	2.67	0.42
21:i3:913:A:N6	27:H3:98:ARG:HB3	2.33	0.42
21:i3:1397:U:O4	32:Q3:12:VAL:HA	2.18	0.42
21:i3:1523:C:C5	34:S3:141:ARG:CZ	3.03	0.42
21:i3:1842:C:H3'	35:j3:4:LYS:HZ3	1.83	0.42
22:A3:77:ILE:HA	22:A3:99:ILE:O	2.19	0.42
26:F3:14:THR:HA	26:F3:15:PRO:HA	1.72	0.42
27:H3:18:GLU:HG2	27:H3:19:PHE:N	2.34	0.42
28:I3:107:THR:OG1	28:I3:108:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R3:98:VAL:HB	33:R3:115:SER:HB3	2.00	0.42
8:f4:114:ILE:HD13	13:M4:68:LEU:HD23	2.00	0.42
9:g4:14:HIS:ND1	9:g4:15:ASN:N	2.67	0.42
9:g4:35:SER:OG	9:g4:36:ARG:N	2.51	0.42
9:g4:194:TYR:CE2	9:g4:212:LYS:HB2	2.53	0.42
9:g4:218:LEU:HB3	9:g4:227:LEU:HD12	2.01	0.42
9:g4:245:ARG:O	9:g4:247:TRP:N	2.53	0.42
11:G4:216:ARG:O	11:G4:220:ALA:N	2.53	0.42
15:O4:14:VAL:N	15:O4:15:ILE:HA	2.25	0.42
15:O4:34:PHE:HE1	15:O4:98:ARG:CZ	2.33	0.42
17:Y4:56:PHE:HB2	17:Y4:74:MET:HB3	2.01	0.42
18:Z4:49:LEU:H	18:Z4:83:LEU:HD12	1.82	0.42
21:i4:588:G:H21	21:i4:589:G:H1	1.67	0.42
21:i4:1035:A:H2'	21:i4:1036:A:O4'	2.19	0.42
21:i4:1643:U:O2'	21:i4:1644:C:H6	2.02	0.42
21:i4:1673:U:H2'	21:i4:1674:G:O4'	2.20	0.42
22:A4:3:GLY:HA2	22:A4:63:ARG:NH2	2.35	0.42
22:A4:21:ALA:HB1	22:A4:169:HIS:O	2.20	0.42
25:E4:123:LEU:HD12	25:E4:160:ILE:O	2.20	0.42
25:E4:148:ARG:HE	25:E4:149:TYR:HE2	1.67	0.42
29:K4:32:HIS:ND1	29:K4:33:PRO:HD2	2.35	0.42
30:L4:121:GLN:HG3	30:L4:153:LYS:CD	2.37	0.42
32:Q4:116:ASP:O	32:Q4:118:THR:N	2.51	0.42
33:R4:61:ILE:HG12	33:R4:61:ILE:H	1.56	0.42
34:S4:130:ARG:HD2	34:S4:134:GLN:OE1	2.18	0.42
2:U5:31:SER:O	2:U5:35:VAL:HG23	2.19	0.42
20:e5:43:VAL:HB	21:i5:551:U:O2'	2.17	0.42
21:i5:291:G:H1'	21:i5:292:A:H5''	2.01	0.42
21:i5:345:U:H1'	25:E5:33:THR:HG23	2.01	0.42
21:i5:689:U:O4	27:H5:122:LEU:HD11	2.19	0.42
21:i5:1037:G:N1	21:i5:1078:C:O2	2.50	0.42
21:i5:1236:G:C5'	31:P5:133:ILE:HB	2.49	0.42
21:i5:1523:C:C5	34:S5:141:ARG:CZ	3.02	0.42
21:i5:1743:G:C6	21:i5:1744:G:N1	2.87	0.42
31:P5:116:LEU:HD22	31:P5:116:LEU:HA	1.88	0.42
33:R5:80:ARG:CG	33:R5:80:ARG:NH1	2.80	0.42
4:X6:114:ASP:OD2	21:i6:618:C:N4	2.52	0.42
9:g6:162:ASN:O	9:g6:164:ILE:N	2.45	0.42
9:g6:164:ILE:HG23	9:g6:178:ASN:HA	2.01	0.42
10:C6:142:LYS:HZ3	10:C6:153:GLY:C	2.25	0.42
10:C6:189:GLY:CA	21:i6:1355:C:O2	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N6:90:HIS:HA	14:N6:93:LYS:HE3	2.01	0.42
25:E6:88:ASP:O	25:E6:100:ARG:HA	2.19	0.42
26:F6:96:ALA:HA	26:F6:99:ILE:HG22	2.01	0.42
26:F6:157:GLY:HA2	26:F6:160:GLU:OE2	2.20	0.42
27:H6:63:PHE:HA	27:H6:95:ILE:O	2.19	0.42
29:K6:5:LYS:O	29:K6:9:ILE:N	2.52	0.42
29:K6:89:ILE:O	29:K6:91:PRO:HD3	2.19	0.42
32:Q6:116:ASP:O	32:Q6:118:THR:N	2.52	0.42
34:S6:130:ARG:HD2	34:S6:134:GLN:OE1	2.18	0.42
36:k1:102:ILE:HD12	36:k1:103:LYS:N	2.33	0.42
36:k3:51:LYS:HB2	36:k3:63:THR:HG23	2.01	0.42
36:k6:146:GLY:CA	36:k6:167:ILE:HG13	2.49	0.42
37:l1:161:GLU:N	37:l1:161:GLU:OE1	2.52	0.42
37:l5:151:LYS:O	37:l5:152:PHE:CG	2.73	0.42
1:T1:40:ALA:HB2	1:T1:96:SER:N	2.34	0.42
8:f1:130:VAL:HG13	21:i1:1310:U:P	2.57	0.42
9:g1:127:LYS:NZ	33:R1:37:GLU:OE2	2.52	0.42
9:g1:294:ASP:OD1	9:g1:295:GLY:N	2.52	0.42
10:C1:204:ILE:HA	10:C1:221:ASP:OD1	2.20	0.42
11:G1:216:ARG:O	11:G1:220:ALA:N	2.53	0.42
16:W1:32:LYS:HA	16:W1:35:VAL:HG22	2.01	0.42
18:Z1:86:ALA:HB1	34:S1:3:LEU:CG	2.49	0.42
20:e1:45:VAL:CA	21:i1:535:G:O2'	2.55	0.42
21:i1:526:A:N1	21:i1:560:A:N1	2.68	0.42
21:i1:667:U:H5''	21:i1:1087:A:C5	2.54	0.42
21:i1:896:U:O4	21:i1:898:U:N3	2.52	0.42
21:i1:1200:A:N3	21:i1:1357:A:H2	2.18	0.42
21:i1:1318:G:C2	21:i1:1319:U:C2	3.06	0.42
21:i1:1454:A:H5'	33:R1:5:ARG:HH22	1.84	0.42
21:i1:1610:G:OP2	34:S1:132:ARG:NE	2.46	0.42
23:B1:128:LYS:HG3	23:B1:129:THR:O	2.18	0.42
25:E1:123:LEU:HD12	25:E1:160:ILE:O	2.20	0.42
28:I1:123:ARG:HD3	15:O6:64:ALA:C	2.44	0.42
31:P1:118:GLU:O	31:P1:118:GLU:HG3	2.19	0.42
32:Q1:15:ARG:HG2	32:Q1:20:THR:OG1	2.20	0.42
33:R1:68:GLY:HA3	33:R1:69:ILE:HA	1.91	0.42
34:S1:105:ASN:CG	21:i3:1761:U:O2'	2.57	0.42
1:T2:40:ALA:HB2	1:T2:96:SER:N	2.34	0.42
1:T2:82:ARG:HG3	1:T2:90:SER:HB2	2.00	0.42
12:J2:32:ILE:HD11	12:J2:40:LYS:HG2	2.01	0.42
14:N2:16:LEU:HD22	21:i2:919:A:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O2:51:GLU:OE2	23:B2:65:ARG:NH2	2.49	0.42
21:i2:303:C:H5''	28:I2:75:LYS:HD3	2.01	0.42
21:i2:1163:C:H2'	21:i2:1164:G:C8	2.53	0.42
21:i2:1643:U:O2'	21:i2:1644:C:H6	2.02	0.42
21:i2:1755:C:C1'	21:i2:1777:G:H22	2.31	0.42
23:B2:197:ILE:HD11	23:B2:210:VAL:HG11	2.02	0.42
27:H2:43:LEU:HB2	27:H2:72:PHE:CZ	2.54	0.42
27:H2:63:PHE:HA	27:H2:95:ILE:O	2.19	0.42
27:H2:157:HIS:HB3	27:H2:190:PRO:HG3	2.00	0.42
29:K2:29:MET:HA	29:K2:30:PRO:HD3	1.84	0.42
33:R2:65:PRO:HG2	33:R2:74:GLN:NE2	2.34	0.42
33:R2:77:GLU:HG2	33:R2:81:ARG:CG	2.49	0.42
2:U3:91:LEU:HB3	2:U3:93:SER:HB3	2.01	0.42
4:X3:60:LYS:HG2	4:X3:114:ASP:O	2.20	0.42
5:a3:45:VAL:HG11	5:a3:64:LEU:HD21	2.00	0.42
5:a3:105:GLY:C	5:a3:107:ALA:N	2.73	0.42
9:g3:168:CYS:SG	9:g3:169:GLY:N	2.87	0.42
10:C3:242:ASP:HA	10:C3:245:SER:OG	2.19	0.42
11:G3:10:THR:OG1	11:G3:128:THR:HG21	2.19	0.42
11:G3:146:ASN:O	11:G3:147:LEU:HB3	2.19	0.42
12:J3:136:ARG:HD3	12:J3:160:SER:HA	2.02	0.42
16:W3:80:ASP:OD2	21:i3:803:C:H4'	2.18	0.42
17:Y3:17:LEU:HD22	25:E3:69:PHE:CE1	2.50	0.42
21:i3:184:G:C2'	21:i3:185:G:H5'	2.49	0.42
21:i3:745:C:H4'	27:H3:107:LYS:HB3	2.01	0.42
21:i3:869:A:N6	27:H3:114:GLN:O	2.53	0.42
21:i3:980:A:HO2'	21:i3:981:A:P	2.42	0.42
21:i3:1035:A:H2'	21:i3:1036:A:O4'	2.19	0.42
21:i3:1142:G:H2'	21:i3:1144:A:OP2	2.19	0.42
22:A3:70:ASN:HA	22:A3:71:PRO:HD2	1.88	0.42
25:E3:103:TYR:HB3	25:E3:107:GLY:HA2	2.00	0.42
26:F3:136:ARG:O	26:F3:203:ASN:CB	2.67	0.42
27:H3:63:PHE:HA	27:H3:95:ILE:O	2.19	0.42
29:K3:2:LEU:HD12	29:K3:3:MET:HB2	2.02	0.42
29:K3:5:LYS:O	29:K3:9:ILE:N	2.53	0.42
32:Q3:15:ARG:HG2	32:Q3:20:THR:OG1	2.20	0.42
2:U4:61:LEU:H	2:U4:81:GLN:NE2	2.17	0.42
9:g4:112:ALA:HB2	9:g4:154:VAL:HG23	2.02	0.42
10:C4:204:ILE:HA	10:C4:221:ASP:OD1	2.19	0.42
11:G4:10:THR:OG1	11:G4:128:THR:HG21	2.20	0.42
11:G4:193:ALA:HB1	21:i4:331:C:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:90:HIS:HA	14:N4:93:LYS:HE3	2.01	0.42
14:N4:99:ARG:NH1	14:N4:143:SER:HA	2.35	0.42
14:N4:133:ARG:HD2	30:L4:152:LYS:HG3	2.01	0.42
16:W4:111:MET:HG3	16:W4:112:ASP:H	1.84	0.42
21:i4:1476:A:H3'	21:i4:1476:A:N3	2.34	0.42
21:i4:1743:G:C6	21:i4:1744:G:N1	2.88	0.42
28:I4:142:SER:HA	28:I4:146:GLN:HG2	2.01	0.42
30:L4:13:GLN:HG2	30:L4:36:TYR:HB3	2.00	0.42
1:T5:82:ARG:NH1	21:i5:1589:A:O2'	2.51	0.42
2:U5:34:LYS:HA	2:U5:37:ALA:HB3	1.99	0.42
5:a5:45:VAL:HG22	5:a5:49:ALA:HB3	2.00	0.42
10:C5:73:MET:O	10:C5:73:MET:HG3	2.20	0.42
11:G5:4:ASN:HB2	11:G5:110:ASN:OD1	2.19	0.42
11:G5:78:SER:OG	11:G5:79:LYS:N	2.53	0.42
16:W5:57:ARG:NH1	19:b5:26:GLN:OE1	2.52	0.42
18:Z5:55:TYR:HB3	18:Z5:59:CYS:SG	2.59	0.42
21:i5:133:C:H5'	21:i5:134:C:H5'	2.01	0.42
21:i5:319:C:H5'	21:i5:320:G:OP2	2.19	0.42
21:i5:332:G:H2'	21:i5:333:G:C8	2.54	0.42
21:i5:535:G:H22	21:i5:548:C:H42	1.67	0.42
21:i5:587:A:H1'	21:i5:589:G:H22	1.83	0.42
21:i5:1121:G:O2'	23:B5:204:ILE:O	2.37	0.42
21:i5:1217:A:H2'	21:i5:1218:C:C6	2.54	0.42
21:i5:1217:A:O2'	21:i5:1684:C:N3	2.50	0.42
21:i5:1476:A:H3'	21:i5:1476:A:N3	2.34	0.42
22:A5:21:ALA:HB1	22:A5:169:HIS:O	2.20	0.42
24:D5:71:ALA:HB1	29:K5:20:VAL:HG21	2.02	0.42
31:P5:114:HIS:HB3	31:P5:119:PHE:CE2	2.53	0.42
34:S5:105:ASN:HD22	34:S5:108:ARG:HH21	1.67	0.42
2:U6:61:LEU:H	2:U6:81:GLN:HE22	1.67	0.42
2:U6:86:LYS:O	2:U6:87:ARG:NH2	2.44	0.42
21:i6:291:G:H1'	21:i6:292:A:H5''	2.02	0.42
21:i6:1035:A:H2'	21:i6:1036:A:O4'	2.19	0.42
21:i6:1235:G:H1	21:i6:1523:C:N4	2.14	0.42
23:B6:81:PHE:O	23:B6:105:LEU:HD12	2.20	0.42
24:D6:64:ARG:CG	29:K6:95:ARG:NH1	2.63	0.42
24:D6:105:LEU:HD23	24:D6:184:ILE:HD12	2.01	0.42
27:H6:43:LEU:HB2	27:H6:72:PHE:CZ	2.54	0.42
32:Q6:37:ARG:HA	32:Q6:38:PRO:HD3	1.90	0.42
36:k1:85:LEU:HD21	36:k1:133:ALA:HB1	1.98	0.42
36:k1:169:TYR:CD2	36:k1:172:ASP:OD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k2:33:PHE:CD1	36:k2:92:LEU:CG	3.03	0.42
36:k4:95:GLN:HG2	36:k4:132:VAL:HG21	2.00	0.42
36:k6:79:TYR:HD1	36:k6:131:ILE:CG1	2.31	0.42
37:l6:120:ILE:HG23	37:l6:121:PRO:HD2	1.98	0.42
1:T1:99:VAL:O	1:T1:103:VAL:HG23	2.17	0.42
9:g1:112:ALA:HB2	9:g1:154:VAL:HG23	2.02	0.42
16:W1:3:ARG:HD3	16:W1:9:ASP:OD2	2.19	0.42
19:b1:19:HIS:CD2	21:i1:1129:G:H5'	2.55	0.42
21:i1:345:U:H1'	25:E1:33:THR:HG23	2.01	0.42
21:i1:1609:C:OP2	34:S1:134:GLN:NE2	2.53	0.42
25:E1:88:ASP:O	25:E1:100:ARG:HA	2.19	0.42
30:L1:77:VAL:O	30:L1:123:GLY:N	2.46	0.42
2:U2:76:THR:HA	32:Q2:132:PHE:CE2	2.55	0.42
9:g2:254:PRO:HG3	9:g2:284:PRO:HD2	2.01	0.42
10:C2:65:LYS:N	10:C2:277:HIS:CE1	2.86	0.42
10:C2:165:VAL:HG12	10:C2:244:ILE:HB	2.02	0.42
11:G2:180:VAL:HG22	21:i2:143:U:H5	1.83	0.42
12:J2:76:ALA:N	25:E2:252:ARG:HH22	2.17	0.42
15:O2:63:LYS:HZ1	28:I4:158:ILE:HD11	1.79	0.42
19:b2:34:ASP:OD1	19:b2:35:VAL:N	2.53	0.42
19:b2:62:VAL:HG22	19:b2:64:CYS:H	1.83	0.42
21:i2:1141:G:H1	21:i2:1146:C:H42	1.66	0.42
21:i2:1214:A:O2'	21:i2:1216:C:OP1	2.28	0.42
21:i2:1464:C:OP2	33:R2:60:ARG:NH1	2.50	0.42
23:B2:125:VAL:HG12	23:B2:169:MET:HE3	2.00	0.42
23:B2:197:ILE:HD11	23:B2:210:VAL:HG21	2.02	0.42
27:H2:15:LYS:H	27:H2:16:PRO:HD2	1.85	0.42
29:K2:5:LYS:O	29:K2:9:ILE:N	2.53	0.42
32:Q2:138:ARG:O	32:Q2:140:ARG:HG3	2.19	0.42
9:g3:164:ILE:HG23	9:g3:178:ASN:HA	2.02	0.42
15:O3:34:PHE:HE1	15:O3:98:ARG:CZ	2.32	0.42
16:W3:111:MET:HG3	16:W3:112:ASP:H	1.84	0.42
17:Y3:8:ARG:O	17:Y3:9:THR:OG1	2.33	0.42
21:i3:45:A:N6	21:i3:481:C:H4'	2.35	0.42
21:i3:555:A:C5	21:i3:557:U:C5	3.05	0.42
21:i3:927:C:H2'	21:i3:928:G:C8	2.54	0.42
21:i3:1454:A:C5'	33:R3:5:ARG:HH22	2.31	0.42
21:i3:1535:U:O2'	26:F3:88:MET:HE2	2.20	0.42
21:i3:1609:C:OP2	34:S3:134:GLN:NE2	2.53	0.42
23:B3:68:GLU:HA	23:B3:84:PHE:O	2.19	0.42
23:B3:81:PHE:O	23:B3:105:LEU:HD12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:H3:177:TYR:O	27:H3:181:THR:OG1	2.33	0.42
31:P3:118:GLU:O	31:P3:118:GLU:HG3	2.19	0.42
32:Q3:13:PHE:HA	32:Q3:21:ALA:O	2.19	0.42
32:Q3:24:HIS:HE1	32:Q3:69:ARG:HB2	1.83	0.42
6:c4:6:VAL:HG13	6:c4:8:PRO:HD3	2.02	0.42
8:f4:130:VAL:HG13	21:i4:1310:U:P	2.57	0.42
9:g4:164:ILE:HG23	9:g4:178:ASN:HA	2.01	0.42
10:C4:255:LEU:C	10:C4:257:LYS:H	2.26	0.42
11:G4:63:MET:HE1	11:G4:100:CYS:HA	2.02	0.42
11:G4:78:SER:OG	11:G4:79:LYS:N	2.53	0.42
12:J4:125:HIS:CD2	21:i4:526:A:O2'	2.72	0.42
14:N4:149:LEU:C	14:N4:149:LEU:HD22	2.43	0.42
16:W4:30:CYS:HB3	16:W4:59:GLY:H	1.85	0.42
18:Z4:91:LEU:HD23	18:Z4:91:LEU:HA	1.78	0.42
21:i4:556:U:O3'	21:i4:557:U:C5	2.72	0.42
21:i4:695:C:H6	21:i4:695:C:H5''	1.84	0.42
21:i4:819:G:H4'	25:E4:255:ARG:NH2	2.35	0.42
21:i4:1523:C:C5	34:S4:141:ARG:CZ	3.03	0.42
21:i4:1706:G:H2'	21:i4:1707:U:C6	2.55	0.42
26:F4:96:ALA:HA	26:F4:99:ILE:HG22	2.02	0.42
31:P4:115:TYR:CD2	31:P4:115:TYR:N	2.73	0.42
33:R4:88:VAL:O	33:R4:92:ASP:HB2	2.18	0.42
4:X5:49:GLY:O	4:X5:100:VAL:HG22	2.19	0.42
8:f5:96:LYS:HZ1	21:i5:1306:U:C5'	2.29	0.42
9:g5:112:ALA:HB2	9:g5:154:VAL:HG23	2.02	0.42
9:g5:294:ASP:OD1	9:g5:295:GLY:N	2.52	0.42
14:N5:127:ARG:HA	14:N5:130:LYS:HD3	2.02	0.42
16:W5:124:LYS:NZ	21:i5:863:U:O2	2.39	0.42
18:Z5:86:ALA:HB1	34:S5:3:LEU:CG	2.49	0.42
21:i5:115:U:H2'	21:i5:116:U:C6	2.55	0.42
21:i5:332:G:O5'	21:i5:332:G:C8	2.70	0.42
21:i5:809:A:H4'	25:E5:221:ARG:CZ	2.50	0.42
21:i5:958:G:H2'	21:i5:958:G:N3	2.34	0.42
21:i5:1049:A:OP2	21:i5:1068:G:N1	2.37	0.42
21:i5:1504:U:H1'	21:i5:1509:U:H5	1.84	0.42
21:i5:1673:U:H2'	21:i5:1674:G:O4'	2.20	0.42
21:i5:1849:G:H5'	37:l5:146:ARG:HH21	1.67	0.42
24:D5:61:GLU:OE2	29:K5:73:ASN:ND2	2.53	0.42
24:D5:106:ARG:O	24:D5:110:LEU:N	2.39	0.42
27:H5:157:HIS:HB3	27:H5:190:PRO:HG3	2.00	0.42
30:L5:124:ASP:CB	30:L5:147:LYS:HG3	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q5:116:ASP:O	32:Q5:118:THR:N	2.52	0.42
9:g6:84:ASP:OD1	9:g6:84:ASP:N	2.50	0.42
12:J6:38:ARG:HG2	12:J6:39:ASN:H	1.84	0.42
14:N6:71:ILE:H	14:N6:71:ILE:HD12	1.85	0.42
21:i6:133:C:H5'	21:i6:134:C:H5'	2.01	0.42
21:i6:412:G:O2'	21:i6:812:A:N6	2.51	0.42
21:i6:464:A:OP2	21:i6:465:A:N6	2.51	0.42
21:i6:565:G:N1	21:i6:586:G:H1'	2.34	0.42
21:i6:1083:A:N7	21:i6:1841:C:O2'	2.52	0.42
21:i6:1184:G:P	35:j6:11:ARG:HH21	2.42	0.42
21:i6:1376:A:C3'	22:A6:102:ARG:HE	2.18	0.42
23:B6:143:THR:HB	23:B6:205:TYR:HE2	1.85	0.42
23:B6:197:ILE:HD11	23:B6:210:VAL:HG11	2.01	0.42
24:D6:75:LYS:NZ	29:K6:18:GLU:HG2	2.35	0.42
25:E6:51:ARG:NH2	25:E6:109:PHE:O	2.53	0.42
36:k4:51:LYS:HB2	36:k4:63:THR:HG23	2.02	0.42
36:k4:66:GLY:O	36:k4:179:THR:HA	2.18	0.42
36:k6:79:TYR:HA	36:k6:131:ILE:HD13	2.01	0.42
37:l1:113:GLN:HA	37:l1:114:LYS:HA	1.58	0.42
37:l1:181:LYS:HB2	37:l1:182:TRP:HA	2.02	0.42
37:l3:151:LYS:O	37:l3:152:PHE:CG	2.73	0.42
37:l4:151:LYS:O	37:l4:152:PHE:CG	2.73	0.42
2:U1:61:LEU:HD21	24:D1:8:LYS:HG3	2.02	0.42
8:f1:133:ALA:O	8:f1:139:HIS:HA	2.20	0.42
14:N1:137:PRO:HG2	30:L1:154:GLN:CB	2.22	0.42
17:Y1:22:GLN:NE2	25:E1:56:LEU:HD12	2.30	0.42
17:Y1:59:GLY:O	21:i1:572:U:H5''	2.18	0.42
18:Z1:82:SER:HB2	21:i1:1598:G:H8	1.85	0.42
21:i1:496:C:H42	21:i1:506:G:H1	1.65	0.42
21:i1:556:U:C4	21:i1:588:G:C5	3.06	0.42
21:i1:1771:G:H3'	21:i1:1771:G:N3	2.35	0.42
21:i1:1849:G:H5''	37:l1:146:ARG:HH22	1.85	0.42
23:B1:87:ILE:N	23:B1:99:ASN:O	2.53	0.42
23:B1:103:MET:O	23:B1:103:MET:HG3	2.19	0.42
23:B1:143:THR:HB	23:B1:205:TYR:HE2	1.84	0.42
24:D1:75:LYS:NZ	29:K1:18:GLU:HG2	2.34	0.42
25:E1:47:PHE:HD2	25:E1:48:LEU:HD12	1.84	0.42
29:K1:89:ILE:O	29:K1:91:PRO:HD3	2.19	0.42
33:R1:9:VAL:O	33:R1:13:ALA:N	2.52	0.42
2:U2:17:ILE:HG21	2:U2:94:PRO:CB	2.38	0.42
4:X2:61:GLN:N	4:X2:62:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d2:25:SER:OG	29:K2:65:ARG:NH1	2.53	0.42
9:g2:218:LEU:HB3	9:g2:227:LEU:HD12	2.01	0.42
11:G2:21:GLU:O	11:G2:25:ARG:HG2	2.20	0.42
17:Y2:56:PHE:HB2	17:Y2:74:MET:HB3	2.01	0.42
21:i2:561:A:H2'	21:i2:562:U:O4'	2.20	0.42
21:i2:869:A:N6	27:H2:114:GLN:O	2.53	0.42
21:i2:1015:U:O2'	21:i2:1017:U:OP2	2.33	0.42
21:i2:1119:A:C6	21:i2:1120:U:H1'	2.55	0.42
21:i2:1172:U:O3'	35:j2:10:MET:CE	2.65	0.42
21:i2:1217:A:H2'	21:i2:1218:C:C6	2.54	0.42
21:i2:1615:U:P	31:P2:43:ARG:NH2	2.91	0.42
23:B2:81:PHE:O	23:B2:105:LEU:HD12	2.20	0.42
29:K2:2:LEU:HD12	29:K2:3:MET:HB2	2.02	0.42
1:T3:40:ALA:HB2	1:T3:96:SER:N	2.34	0.42
7:d3:25:SER:OG	29:K3:65:ARG:NH1	2.53	0.42
9:g3:106:LYS:HB2	9:g3:126:ASP:CB	2.49	0.42
9:g3:254:PRO:HG3	9:g3:284:PRO:HD2	2.01	0.42
11:G3:140:ARG:HA	11:G3:140:ARG:HD3	1.70	0.42
17:Y3:88:LYS:HZ3	17:Y3:97:TYR:HD2	1.66	0.42
21:i3:534:G:H2'	21:i3:535:G:H8	1.85	0.42
21:i3:958:G:N3	21:i3:958:G:H2'	2.35	0.42
21:i3:1083:A:N7	21:i3:1841:C:O2'	2.52	0.42
21:i3:1163:C:H2'	21:i3:1164:G:C8	2.53	0.42
21:i3:1217:A:O2'	21:i3:1684:C:N3	2.50	0.42
21:i3:1237:C:H4'	31:P3:131:PRO:HA	2.02	0.42
22:A3:144:THR:N	22:A3:158:ASP:OD2	2.53	0.42
23:B3:62:LEU:O	23:B3:88:THR:HG21	2.20	0.42
23:B3:103:MET:O	23:B3:103:MET:HG3	2.19	0.42
30:L3:114:SER:HA	30:L3:115:PRO:HD3	1.91	0.42
33:R3:65:PRO:HB3	33:R3:73:LEU:CG	2.49	0.42
33:R3:71:ILE:HG13	33:R3:72:LYS:H	1.84	0.42
2:U4:76:THR:HA	32:Q4:132:PHE:CE2	2.54	0.42
3:V4:50:PHE:CE2	10:C4:267:GLN:NE2	2.84	0.42
4:X4:101:LEU:O	4:X4:123:VAL:HG22	2.18	0.42
11:G4:153:VAL:O	11:G4:154:ARG:C	2.62	0.42
18:Z4:82:SER:HB2	21:i4:1598:G:H8	1.85	0.42
21:i4:379:C:OP2	28:I4:181:GLN:NE2	2.49	0.42
21:i4:523:A:C2'	21:i4:524:U:H5'	2.49	0.42
21:i4:735:C:H3'	21:i4:735:C:C6	2.51	0.42
21:i4:795:A:H62	27:H4:109:ARG:HH12	1.68	0.42
21:i4:896:U:O4	21:i4:898:U:N3	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1680:G:H2'	21:i4:1681:U:C6	2.55	0.42
23:B4:143:THR:HB	23:B4:205:TYR:HE2	1.85	0.42
25:E4:47:PHE:HD2	25:E4:48:LEU:HD12	1.85	0.42
32:Q4:10:VAL:HG22	32:Q4:98:LYS:HD3	2.02	0.42
32:Q4:13:PHE:HA	32:Q4:21:ALA:O	2.18	0.42
1:T5:133:ARG:NH2	21:i5:1420:G:O3'	2.52	0.42
2:U5:61:LEU:H	2:U5:81:GLN:HE22	1.67	0.42
4:X5:60:LYS:HG2	4:X5:114:ASP:O	2.19	0.42
6:c5:59:LEU:HD21	26:F5:122:ARG:HE	1.85	0.42
9:g5:147:HIS:HB2	9:g5:149:GLU:O	2.20	0.42
9:g5:157:SER:HA	9:g5:158:PRO:HD3	1.87	0.42
9:g5:254:PRO:HG3	9:g5:284:PRO:HD2	2.01	0.42
11:G5:154:ARG:O	21:i5:77:A:O4'	2.37	0.42
11:G5:216:ARG:O	11:G5:220:ALA:N	2.52	0.42
21:i5:211:G:C8	21:i5:212:C:C4	3.07	0.42
21:i5:378:U:C4	21:i5:379:C:C4	3.07	0.42
21:i5:534:G:H2'	21:i5:535:G:H8	1.84	0.42
21:i5:1035:A:H2'	21:i5:1036:A:O4'	2.19	0.42
21:i5:1217:A:H2'	21:i5:1218:C:H6	1.85	0.42
21:i5:1609:C:OP2	34:S5:134:GLN:NE2	2.53	0.42
21:i5:1706:G:H2'	21:i5:1707:U:C6	2.55	0.42
21:i5:1784:G:N3	21:i5:1784:G:C2'	2.81	0.42
22:A5:22:GLY:O	22:A5:24:HIS:N	2.46	0.42
26:F5:157:GLY:HA2	26:F5:160:GLU:OE2	2.20	0.42
27:H5:18:GLU:HG2	27:H5:19:PHE:N	2.34	0.42
27:H5:63:PHE:HA	27:H5:95:ILE:O	2.19	0.42
27:H5:101:LEU:HA	27:H5:102:PRO:HD3	1.79	0.42
10:C6:104:ASP:OD1	10:C6:105:GLU:N	2.53	0.42
10:C6:157:LEU:HD11	21:i6:1351:G:OP2	2.19	0.42
16:W6:30:CYS:HB3	16:W6:59:GLY:H	1.85	0.42
17:Y6:110:ARG:NH1	17:Y6:128:GLY:O	2.43	0.42
21:i6:118:C:H2'	21:i6:119:U:O4'	2.19	0.42
21:i6:331:C:H2'	21:i6:332:G:C8	2.54	0.42
21:i6:867:G:H5''	30:L6:150:GLY:H	1.83	0.42
21:i6:1217:A:H2'	21:i6:1218:C:H6	1.85	0.42
21:i6:1217:A:O2'	21:i6:1684:C:N3	2.51	0.42
21:i6:1223:A:H2'	21:i6:1224:G:O4'	2.20	0.42
21:i6:1375:G:H2'	21:i6:1376:A:C8	2.55	0.42
21:i6:1476:A:H3'	21:i6:1476:A:N3	2.34	0.42
21:i6:1609:C:OP2	34:S6:134:GLN:NE2	2.53	0.42
21:i6:1751:C:H3'	21:i6:1751:C:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1771:G:H3'	21:i6:1771:G:N3	2.35	0.42
22:A6:21:ALA:HB1	22:A6:169:HIS:O	2.20	0.42
22:A6:214:GLU:CB	33:R6:84:TYR:CE1	2.99	0.42
24:D6:64:ARG:HD3	29:K6:95:ARG:NH2	2.24	0.42
25:E6:151:ASP:OD2	25:E6:153:LEU:HB2	2.19	0.42
30:L6:13:GLN:HG2	30:L6:36:TYR:HB3	2.01	0.42
32:Q6:10:VAL:HG22	32:Q6:98:LYS:HD3	2.02	0.42
32:Q6:13:PHE:HA	32:Q6:21:ALA:O	2.18	0.42
36:k1:79:TYR:CE1	36:k1:131:ILE:HD13	2.55	0.42
36:k5:33:PHE:HZ	36:k5:131:ILE:CD1	2.30	0.42
36:k6:35:GLY:CA	36:k6:91:ILE:HG22	2.44	0.42
36:k6:79:TYR:HD1	36:k6:131:ILE:CD1	2.30	0.42
37:l5:148:PHE:HZ	37:l5:166:ILE:HG23	1.83	0.42
2:U1:31:SER:O	2:U1:35:VAL:HG23	2.20	0.42
6:c1:13:ARG:HA	6:c1:54:ASP:O	2.19	0.42
9:g1:147:HIS:HB2	9:g1:149:GLU:O	2.20	0.42
9:g1:254:PRO:HG3	9:g1:284:PRO:HD2	2.02	0.42
21:i1:594:A:O4'	21:i1:643:A:N6	2.52	0.42
21:i1:1234:C:H4'	21:i1:1246:A:H61	1.85	0.42
24:D1:43:PRO:O	24:D1:44:THR:OG1	2.32	0.42
24:D1:146:ARG:HH11	24:D1:147:ALA:H	1.67	0.42
27:H1:18:GLU:HG2	27:H1:19:PHE:N	2.35	0.42
28:I1:107:THR:OG1	28:I1:108:PRO:HD3	2.19	0.42
28:I1:123:ARG:CZ	15:O6:66:ARG:H	2.31	0.42
32:Q1:10:VAL:HG22	32:Q1:98:LYS:HD3	2.02	0.42
32:Q1:138:ARG:O	32:Q1:140:ARG:HG3	2.19	0.42
33:R1:13:ALA:O	33:R1:16:ILE:HG22	2.19	0.42
2:U2:31:SER:O	2:U2:35:VAL:HG23	2.20	0.42
5:a2:107:ALA:HB1	5:a2:108:PRO:HA	2.02	0.42
18:Z2:55:TYR:HB3	18:Z2:59:CYS:SG	2.59	0.42
20:e2:28:LYS:CB	21:i2:524:U:H2'	2.49	0.42
21:i2:335:G:O5'	21:i2:335:G:C8	2.72	0.42
21:i2:535:G:N2	21:i2:537:C:H1'	2.33	0.42
21:i2:795:A:H62	27:H2:109:ARG:HH12	1.68	0.42
21:i2:1234:C:H4'	21:i2:1246:A:H61	1.85	0.42
21:i2:1521:C:C5	34:S2:137:LYS:CB	3.03	0.42
21:i2:1673:U:OP1	32:Q2:79:ALA:N	2.50	0.42
22:A2:144:THR:N	22:A2:158:ASP:OD2	2.53	0.42
23:B2:62:LEU:O	23:B2:88:THR:HG21	2.20	0.42
24:D2:61:GLU:OE2	29:K2:73:ASN:ND2	2.53	0.42
25:E2:238:LEU:CD1	25:E2:242:LYS:HG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F2:191:LYS:HA	26:F2:194:ASP:CB	2.46	0.42
30:L2:114:SER:HA	30:L2:115:PRO:HD3	1.90	0.42
31:P2:64:LYS:HA	31:P2:73:PRO:HB3	2.01	0.42
33:R2:71:ILE:H	33:R2:71:ILE:HG12	1.44	0.42
2:U3:61:LEU:H	2:U3:81:GLN:NE2	2.17	0.42
11:G3:36:VAL:N	11:G3:50:VAL:O	2.48	0.42
19:b3:21:LYS:C	19:b3:23:ARG:N	2.78	0.42
21:i3:115:U:H2'	21:i3:116:U:C6	2.55	0.42
21:i3:123:G:O3'	25:E3:148:ARG:NH1	2.50	0.42
21:i3:368:U:O4	36:k1:110:ASN:HB2	2.19	0.42
21:i3:467:G:H2'	21:i3:468:A:H8	1.83	0.42
21:i3:517:C:H2'	21:i3:518:G:O4'	2.20	0.42
21:i3:736:C:H6	21:i3:736:C:H5''	1.85	0.42
21:i3:1119:A:C6	21:i3:1120:U:H1'	2.55	0.42
21:i3:1783:C:HO2'	21:i3:1784:G:P	2.42	0.42
23:B3:37:ALA:O	23:B3:39:PHE:N	2.46	0.42
23:B3:100:PHE:HZ	23:B3:215:VAL:HG11	1.84	0.42
23:B3:197:ILE:HD11	23:B3:210:VAL:HG11	2.02	0.42
25:E3:36:HIS:HD1	25:E3:41:CYS:HB3	1.85	0.42
25:E3:51:ARG:NH2	25:E3:109:PHE:O	2.53	0.42
26:F3:41:VAL:HG11	26:F3:68:ILE:HG12	2.00	0.42
26:F3:182:LYS:NZ	21:i6:201:C:OP2	2.53	0.42
27:H3:68:GLN:O	27:H3:71:SER:OG	2.26	0.42
28:I3:205:ARG:O	36:k1:56:HIS:NE2	2.50	0.42
31:P3:64:LYS:HA	31:P3:73:PRO:HB3	2.01	0.42
31:P3:94:VAL:O	31:P3:105:VAL:HB	2.19	0.42
6:c4:59:LEU:HD21	26:F4:122:ARG:HE	1.85	0.42
7:d4:25:SER:OG	29:K4:65:ARG:NH1	2.53	0.42
8:f4:78:LYS:CE	21:i4:1328:G:OP1	2.68	0.42
9:g4:106:LYS:HB2	9:g4:126:ASP:CB	2.49	0.42
9:g4:110:SER:HB3	9:g4:153:CYS:HA	2.00	0.42
12:J4:57:ALA:O	12:J4:61:LEU:N	2.47	0.42
17:Y4:35:VAL:HA	17:Y4:36:PRO:HD3	1.89	0.42
21:i4:331:C:C2'	21:i4:332:G:C8	2.98	0.42
21:i4:534:G:H2'	21:i4:535:G:H8	1.85	0.42
21:i4:745:C:H4'	27:H4:107:LYS:HB3	2.02	0.42
21:i4:809:A:H4'	25:E4:221:ARG:CZ	2.49	0.42
21:i4:1069:U:P	36:k4:18:LYS:HE2	2.59	0.42
21:i4:1119:A:C6	21:i4:1120:U:H1'	2.55	0.42
21:i4:1217:A:H2'	21:i4:1218:C:H6	1.85	0.42
21:i4:1350:U:H3	21:i4:1379:A:H61	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D4:61:GLU:OE2	29:K4:73:ASN:ND2	2.53	0.42
24:D4:71:ALA:HB1	29:K4:20:VAL:HG21	2.02	0.42
24:D4:75:LYS:NZ	29:K4:18:GLU:HG2	2.34	0.42
29:K4:2:LEU:HD12	29:K4:3:MET:HB2	2.02	0.42
33:R4:9:VAL:O	33:R4:13:ALA:N	2.53	0.42
33:R4:72:LYS:HB2	33:R4:73:LEU:H	1.62	0.42
9:g5:127:LYS:NZ	33:R5:37:GLU:OE2	2.52	0.42
9:g5:218:LEU:HB3	9:g5:227:LEU:HD12	2.02	0.42
10:C5:104:ASP:OD1	10:C5:105:GLU:N	2.53	0.42
10:C5:242:ASP:HA	10:C5:245:SER:OG	2.19	0.42
10:C5:270:THR:HG23	22:A5:69:GLU:CB	2.43	0.42
10:C5:272:HIS:C	10:C5:274:VAL:N	2.74	0.42
16:W5:35:VAL:O	16:W5:39:THR:HG23	2.20	0.42
17:Y5:22:GLN:NE2	25:E5:56:LEU:HD12	2.30	0.42
17:Y5:56:PHE:HB2	17:Y5:74:MET:HB3	2.01	0.42
21:i5:303:C:H5'	28:I5:75:LYS:HD3	2.01	0.42
21:i5:819:G:H4'	25:E5:255:ARG:NH2	2.35	0.42
21:i5:895:G:H2'	21:i5:896:U:H4'	2.00	0.42
21:i5:1223:A:H2'	21:i5:1224:G:O4'	2.20	0.42
21:i5:1702:G:O5'	21:i5:1702:G:C8	2.70	0.42
24:D5:43:PRO:C	24:D5:44:THR:HG1	2.26	0.42
25:E5:184:THR:HA	25:E5:189:LEU:HB2	2.02	0.42
25:E5:238:LEU:CD1	25:E5:242:LYS:HG2	2.50	0.42
1:T6:82:ARG:NH1	21:i6:1589:A:O2'	2.51	0.42
1:T6:82:ARG:HH12	21:i6:1590:C:P	2.42	0.42
9:g6:185:LYS:CG	24:D6:226:GLN:HE21	2.33	0.42
10:C6:165:VAL:HG12	10:C6:244:ILE:HB	2.02	0.42
10:C6:189:GLY:O	10:C6:191:VAL:N	2.48	0.42
11:G6:216:ARG:O	11:G6:220:ALA:N	2.53	0.42
12:J6:7:TRP:NE1	21:i6:39:A:H5'	2.34	0.42
12:J6:9:CYS:HB3	21:i6:519:A:O2'	2.19	0.42
19:b6:19:HIS:CD2	21:i6:1129:G:H5'	2.55	0.42
19:b6:21:LYS:C	19:b6:23:ARG:N	2.77	0.42
21:i6:319:C:H5'	21:i6:320:G:OP2	2.19	0.42
21:i6:534:G:H2'	21:i6:535:G:H8	1.85	0.42
21:i6:1037:G:N1	21:i6:1078:C:O2	2.50	0.42
21:i6:1142:G:H2'	21:i6:1144:A:OP2	2.19	0.42
22:A6:3:GLY:HA2	22:A6:63:ARG:NH2	2.35	0.42
23:B6:37:ALA:O	23:B6:39:PHE:N	2.47	0.42
24:D6:126:ILE:HG21	24:D6:134:CYS:HB3	2.01	0.42
30:L6:48:LYS:O	30:L6:52:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q6:15:ARG:HG2	32:Q6:20:THR:OG1	2.20	0.42
32:Q6:87:SER:O	32:Q6:91:ALA:N	2.50	0.42
36:k1:10:ASN:N	36:k1:56:HIS:HE1	2.16	0.42
36:k2:10:ASN:CA	36:k2:56:HIS:CE1	2.79	0.42
36:k3:106:LEU:HD23	36:k3:169:TYR:HB2	2.02	0.42
36:k4:86:HIS:ND1	36:k4:141:HIS:HB3	2.29	0.42
36:k5:36:ILE:HA	36:k5:91:ILE:HG21	2.01	0.42
36:k6:95:GLN:CB	36:k6:134:ILE:HD13	2.24	0.42
37:l1:120:ILE:HG23	37:l1:121:PRO:HD2	1.98	0.42
37:l4:181:LYS:HB2	37:l4:182:TRP:HA	2.02	0.42
37:l4:185:VAL:HA	37:l4:186:ASP:HA	1.51	0.42
2:U1:56:MET:HB2	2:U1:86:LYS:HB2	2.02	0.42
7:d1:33:LYS:HE2	7:d1:34:TYR:CE1	2.54	0.42
8:f1:96:LYS:CB	21:i1:1307:U:H5	2.21	0.42
8:f1:102:VAL:HG12	8:f1:102:VAL:O	2.20	0.42
9:g1:185:LYS:CG	24:D1:226:GLN:HE21	2.33	0.42
10:C1:65:LYS:N	10:C1:277:HIS:CE1	2.86	0.42
11:G1:78:SER:OG	11:G1:79:LYS:N	2.53	0.42
11:G1:146:ASN:O	11:G1:147:LEU:HB3	2.19	0.42
11:G1:154:ARG:O	21:i1:77:A:O4'	2.37	0.42
15:O1:65:ASP:O	15:O1:68:GLU:HB2	2.20	0.42
21:i1:303:C:H5''	28:I1:75:LYS:HD3	2.01	0.42
21:i1:659:G:O2'	21:i1:662:G:O3'	2.38	0.42
21:i1:750:C:N4	21:i1:794:A:H1'	2.35	0.42
21:i1:1537:A:H2'	21:i1:1538:C:O4'	2.20	0.42
26:F1:14:THR:HA	26:F1:15:PRO:HA	1.72	0.42
27:H1:163:GLN:HG2	27:H1:189:PHE:CZ	2.55	0.42
30:L1:27:GLU:HB3	23:B6:24:PRO:HD3	2.00	0.42
31:P1:114:HIS:HB3	31:P1:119:PHE:CE2	2.53	0.42
32:Q1:116:ASP:O	32:Q1:118:THR:N	2.52	0.42
34:S1:108:ARG:HH22	21:i3:1773:C:C5'	2.31	0.42
1:T2:40:ALA:N	1:T2:96:SER:HB2	2.35	0.42
2:U2:61:LEU:HD21	24:D2:8:LYS:HG3	2.02	0.42
3:V2:36:VAL:HG12	3:V2:37:ALA:N	2.32	0.42
6:c2:6:VAL:HG13	6:c2:8:PRO:HD3	2.02	0.42
11:G2:153:VAL:C	11:G2:155:GLN:H	2.28	0.42
16:W2:57:ARG:NH1	19:b2:26:GLN:OE1	2.52	0.42
19:b2:21:LYS:C	19:b2:23:ARG:N	2.78	0.42
20:e2:5:SER:C	20:e2:7:ALA:N	2.77	0.42
21:i2:819:G:H4'	25:E2:255:ARG:NH2	2.34	0.42
21:i2:1288:U:HO2'	21:i2:1312:G:N2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1535:U:O2'	26:F2:88:MET:HE2	2.20	0.42
21:i2:1706:G:H2'	21:i2:1707:U:C6	2.55	0.42
21:i2:1743:G:C6	21:i2:1744:G:N1	2.87	0.42
21:i2:1771:G:H3'	21:i2:1771:G:N3	2.34	0.42
22:A2:3:GLY:HA2	22:A2:63:ARG:NH2	2.35	0.42
23:B2:143:THR:HB	23:B2:205:TYR:HE2	1.85	0.42
26:F2:136:ARG:O	26:F2:203:ASN:CB	2.67	0.42
33:R2:113:SER:OG	33:R2:114:LEU:N	2.53	0.42
34:S2:31:THR:HG23	34:S2:37:GLY:HA2	2.02	0.42
2:U3:21:ARG:HB3	2:U3:115:THR:HG21	2.01	0.42
4:X3:61:GLN:N	4:X3:62:PRO:HD2	2.34	0.42
6:c3:23:SER:OG	6:c3:24:GLN:N	2.43	0.42
7:d3:7:TYR:HE2	7:d3:9:SER:HB2	1.83	0.42
9:g3:127:LYS:NZ	33:R3:37:GLU:OE2	2.52	0.42
11:G3:216:ARG:O	11:G3:220:ALA:N	2.53	0.42
21:i3:733:C:H3'	21:i3:733:C:O2	2.19	0.42
21:i3:795:A:H62	27:H3:109:ARG:HH12	1.68	0.42
21:i3:833:C:O2'	21:i3:834:C:OP1	2.28	0.42
21:i3:1743:G:C6	21:i3:1744:G:N1	2.88	0.42
25:E3:151:ASP:OD2	25:E3:153:LEU:HB2	2.19	0.42
32:Q3:10:VAL:HG22	32:Q3:98:LYS:HD3	2.02	0.42
1:T4:115:LYS:HA	1:T4:121:ARG:HA	2.01	0.42
2:U4:31:SER:O	2:U4:35:VAL:HG23	2.20	0.42
2:U4:61:LEU:HD21	24:D4:8:LYS:HG3	2.02	0.42
10:C4:104:ASP:OD1	10:C4:105:GLU:N	2.53	0.42
12:J4:38:ARG:HG2	12:J4:39:ASN:H	1.85	0.42
13:M4:48:HIS:O	13:M4:74:ILE:HG23	2.20	0.42
14:N4:16:LEU:HD22	21:i4:919:A:H5'	2.02	0.42
17:Y4:20:ARG:HB3	17:Y4:76:TYR:CD1	2.55	0.42
21:i4:55:U:OP1	21:i4:451:G:N1	2.43	0.42
21:i4:211:G:C8	21:i4:212:C:N4	2.86	0.42
21:i4:312:G:C5'	21:i4:313:A:H5'	2.49	0.42
21:i4:1504:U:H1'	21:i4:1509:U:H5	1.83	0.42
21:i4:1537:A:H2'	21:i4:1538:C:O4'	2.20	0.42
1:T5:133:ARG:HH22	21:i5:1421:A:P	2.43	0.42
12:J5:76:ALA:N	25:E5:252:ARG:HH22	2.17	0.42
14:N5:90:HIS:HA	14:N5:93:LYS:HE3	2.01	0.42
14:N5:125:LEU:O	14:N5:128:TYR:HB3	2.20	0.42
17:Y5:35:VAL:HA	17:Y5:36:PRO:HD3	1.89	0.42
18:Z5:82:SER:HB2	21:i5:1598:G:H8	1.85	0.42
20:e5:31:ARG:CZ	21:i5:525:A:O3'	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:216:C:H41	21:i5:309:G:H1	1.65	0.42
21:i5:530:U:N3	21:i5:531:A:N7	2.67	0.42
21:i5:565:G:N1	21:i5:586:G:H1'	2.34	0.42
21:i5:1349:G:O6	21:i5:1379:A:N6	2.52	0.42
21:i5:1413:G:H5''	21:i5:1414:A:OP2	2.19	0.42
22:A5:77:ILE:HA	22:A5:99:ILE:O	2.19	0.42
25:E5:123:LEU:HD12	25:E5:160:ILE:O	2.19	0.42
28:I5:84:ASN:HD21	28:I5:90:LEU:HD12	1.85	0.42
31:P5:124:LYS:HG2	31:P5:125:PRO:CD	2.48	0.42
9:g6:294:ASP:OD1	9:g6:295:GLY:N	2.52	0.42
10:C6:185:THR:HG22	10:C6:194:ARG:HB3	2.02	0.42
12:J6:40:LYS:NZ	21:i6:641:A:OP1	2.35	0.42
14:N6:16:LEU:HD22	21:i6:919:A:H5'	2.02	0.42
15:O6:34:PHE:HE1	15:O6:98:ARG:CZ	2.32	0.42
16:W6:3:ARG:HD3	16:W6:9:ASP:OD2	2.19	0.42
21:i6:1119:A:C6	21:i6:1120:U:H1'	2.55	0.42
21:i6:1226:G:N1	21:i6:1639:G:OP2	2.51	0.42
21:i6:1523:C:C5	34:S6:141:ARG:CZ	3.02	0.42
23:B6:62:LEU:O	23:B6:88:THR:HG21	2.20	0.42
24:D6:146:ARG:HH11	24:D6:147:ALA:H	1.67	0.42
25:E6:201:HIS:O	25:E6:204:SER:N	2.46	0.42
31:P6:118:GLU:O	31:P6:118:GLU:HG3	2.19	0.42
34:S6:40:TYR:HE1	34:S6:79:ILE:HG21	1.85	0.42
36:k1:168:HIS:CD2	36:k1:174:LEU:HB3	2.51	0.42
36:k4:94:HIS:ND1	36:k4:94:HIS:O	2.52	0.42
36:k5:51:LYS:HB2	36:k5:63:THR:HG23	2.02	0.42
36:k5:83:ARG:CZ	36:k5:175:TRP:CG	3.02	0.42
37:l1:151:LYS:O	37:l1:152:PHE:CG	2.73	0.42
37:l2:181:LYS:HB2	37:l2:184:GLU:CD	2.45	0.42
37:l5:142:LYS:CG	37:l5:146:ARG:HE	2.22	0.42
37:l6:151:LYS:O	37:l6:152:PHE:CG	2.73	0.42
9:g1:69:VAL:HG23	9:g1:80:SER:HB3	2.02	0.42
10:C1:104:ASP:OD1	10:C1:105:GLU:N	2.53	0.42
17:Y1:28:LEU:HG	17:Y1:30:PRO:HD3	2.00	0.42
21:i1:45:A:N6	21:i1:481:C:H4'	2.35	0.42
21:i1:1226:G:N1	21:i1:1639:G:OP2	2.51	0.42
21:i1:1413:G:H5''	21:i1:1414:A:OP2	2.19	0.42
21:i1:1504:U:H1'	21:i1:1509:U:H5	1.84	0.42
21:i1:1592:C:H4'	32:Q1:44:PRO:HB2	2.02	0.42
21:i1:1680:G:H2'	21:i1:1681:U:C6	2.55	0.42
24:D1:126:ILE:HG21	24:D1:134:CYS:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:K1:32:HIS:ND1	29:K1:33:PRO:HD2	2.35	0.42
30:L1:13:GLN:HG2	30:L1:36:TYR:HB3	2.00	0.42
30:L1:48:LYS:O	30:L1:52:GLU:HG2	2.20	0.42
33:R1:113:SER:OG	33:R1:114:LEU:N	2.53	0.42
5:a2:99:PRO:HB3	21:i2:1868:U:C4	2.55	0.42
8:f2:102:VAL:HG12	8:f2:102:VAL:O	2.20	0.42
11:G2:36:VAL:N	11:G2:50:VAL:O	2.48	0.42
12:J2:9:CYS:HB3	21:i2:519:A:O2'	2.19	0.42
14:N2:125:LEU:O	14:N2:128:TYR:HB3	2.20	0.42
21:i2:337:C:H2'	21:i2:338:G:H4'	0.74	0.42
21:i2:412:G:O2'	21:i2:812:A:N6	2.51	0.42
21:i2:659:G:O2'	21:i2:662:G:O3'	2.38	0.42
21:i2:750:C:N4	21:i2:794:A:H1'	2.35	0.42
21:i2:1037:G:N1	21:i2:1078:C:O2	2.50	0.42
21:i2:1237:C:H4'	31:P2:131:PRO:HA	2.02	0.42
21:i2:1349:G:O6	21:i2:1379:A:N6	2.52	0.42
21:i2:1375:G:H2'	21:i2:1376:A:C8	2.55	0.42
25:E2:47:PHE:HD2	25:E2:48:LEU:HD12	1.84	0.42
25:E2:151:ASP:OD2	25:E2:153:LEU:HB2	2.19	0.42
27:H2:10:LYS:NZ	27:H2:14:GLU:OE2	2.48	0.42
4:X3:61:GLN:CG	21:i3:1824:A:N7	2.82	0.42
9:g3:147:HIS:HB2	9:g3:149:GLU:O	2.20	0.42
9:g3:157:SER:HA	9:g3:158:PRO:HD3	1.87	0.42
9:g3:245:ARG:O	9:g3:247:TRP:N	2.52	0.42
12:J3:94:LEU:HA	12:J3:97:ILE:HD12	2.02	0.42
14:N3:99:ARG:NH1	14:N3:143:SER:HA	2.35	0.42
19:b3:34:ASP:OD1	19:b3:35:VAL:N	2.52	0.42
21:i3:368:U:O4	36:k1:110:ASN:C	2.63	0.42
21:i3:659:G:O2'	21:i3:662:G:O3'	2.38	0.42
21:i3:1706:G:H2'	21:i3:1707:U:C6	2.55	0.42
22:A3:104:THR:HG1	22:A3:107:THR:HG1	1.65	0.42
24:D3:135:GLU:HB2	24:D3:187:LYS:HB2	2.02	0.42
24:D3:146:ARG:HH11	24:D3:147:ALA:H	1.67	0.42
2:U4:21:ARG:HB3	2:U4:115:THR:HG21	2.02	0.42
8:f4:133:ALA:O	8:f4:139:HIS:HA	2.20	0.42
9:g4:69:VAL:HG23	9:g4:80:SER:HB3	2.02	0.42
9:g4:185:LYS:CG	24:D4:226:GLN:HE21	2.33	0.42
10:C4:61:MET:HA	10:C4:62:PRO:HD2	1.90	0.42
11:G4:4:ASN:HB2	11:G4:110:ASN:OD1	2.19	0.42
14:N4:4:MET:HE2	14:N4:5:HIS:HE2	1.84	0.42
14:N4:125:LEU:O	14:N4:128:TYR:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O4:39:ASP:N	15:O4:69:SER:HB3	2.35	0.42
21:i4:1290:G:N2	21:i4:1310:U:O2	2.53	0.42
21:i4:1375:G:H2'	21:i4:1376:A:C8	2.55	0.42
21:i4:1771:G:H3'	21:i4:1771:G:N3	2.35	0.42
23:B4:62:LEU:O	23:B4:88:THR:HG21	2.20	0.42
23:B4:197:ILE:HD11	23:B4:210:VAL:HG21	2.02	0.42
27:H4:145:ARG:HH11	27:H4:153:LEU:HD12	1.85	0.42
30:L4:48:LYS:O	30:L4:52:GLU:HG2	2.20	0.42
31:P4:85:ILE:HD11	31:P4:116:LEU:HD23	2.02	0.42
32:Q4:15:ARG:HG2	32:Q4:20:THR:OG1	2.20	0.42
1:T5:40:ALA:N	1:T5:96:SER:HB2	2.35	0.42
17:Y5:110:ARG:NH1	17:Y5:128:GLY:O	2.44	0.42
21:i5:313:A:O2'	21:i5:314:U:O5'	2.38	0.42
21:i5:745:C:H4'	27:H5:107:LYS:HB3	2.02	0.42
21:i5:932:G:O2'	21:i5:934:G:OP2	2.23	0.42
21:i5:1237:C:H4'	31:P5:131:PRO:HA	2.02	0.42
21:i5:1680:G:H2'	21:i5:1681:U:C6	2.55	0.42
21:i5:1818:A:O2'	35:j5:13:LEU:HD21	2.19	0.42
23:B5:68:GLU:HA	23:B5:84:PHE:O	2.20	0.42
24:D5:34:TYR:HA	24:D5:52:ALA:HB1	2.02	0.42
24:D5:126:ILE:HG21	24:D5:134:CYS:HB3	2.00	0.42
25:E5:51:ARG:NH2	25:E5:109:PHE:O	2.53	0.42
27:H5:10:LYS:NZ	27:H5:14:GLU:OE2	2.48	0.42
27:H5:15:LYS:H	27:H5:16:PRO:HD2	1.85	0.42
31:P5:44:ARG:NH1	31:P5:44:ARG:HG3	2.35	0.42
32:Q5:87:SER:O	32:Q5:91:ALA:N	2.50	0.42
33:R5:9:VAL:O	33:R5:13:ALA:N	2.52	0.42
33:R5:113:SER:OG	33:R5:114:LEU:N	2.53	0.42
9:g6:157:SER:HA	9:g6:158:PRO:HD3	1.87	0.42
18:Z6:55:TYR:HB3	18:Z6:59:CYS:SG	2.59	0.42
21:i6:872:A:O2'	21:i6:873:G:OP2	2.33	0.42
21:i6:1217:A:H2'	21:i6:1218:C:C6	2.54	0.42
21:i6:1349:G:O6	21:i6:1379:A:N6	2.52	0.42
21:i6:1528:G:O2'	21:i6:1666:C:OP1	2.38	0.42
21:i6:1546:G:H1	21:i6:1655:C:HO2'	1.67	0.42
21:i6:1706:G:H2'	21:i6:1707:U:C6	2.55	0.42
21:i6:1743:G:C6	21:i6:1744:G:N1	2.88	0.42
24:D6:61:GLU:OE2	29:K6:73:ASN:ND2	2.53	0.42
27:H6:6:ALA:O	27:H6:24:SER:OG	2.26	0.42
27:H6:72:PHE:O	27:H6:76:GLN:N	2.51	0.42
31:P6:64:LYS:HA	31:P6:73:PRO:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R6:9:VAL:O	33:R6:13:ALA:N	2.53	0.42
33:R6:113:SER:OG	33:R6:114:LEU:N	2.53	0.42
36:k4:82:LEU:CD2	36:k4:142:ALA:HB3	2.49	0.42
36:k6:149:LYS:CE	36:k6:165:GLU:OE1	2.68	0.42
37:l3:181:LYS:HB2	37:l3:182:TRP:HA	2.02	0.42
37:l5:181:LYS:HB2	37:l5:182:TRP:HA	2.02	0.42
6:c1:59:LEU:HD21	26:F1:122:ARG:HE	1.85	0.42
8:f1:132:MET:HG2	8:f1:141:CYS:HB2	2.01	0.42
11:G1:220:ALA:HA	11:G1:223:LYS:HZ1	1.85	0.42
12:J1:109:ARG:O	12:J1:112:THR:OG1	2.32	0.42
13:M1:48:HIS:O	13:M1:74:ILE:HG23	2.20	0.42
14:N1:71:ILE:H	14:N1:71:ILE:HD12	1.85	0.42
14:N1:90:HIS:HA	14:N1:93:LYS:HE3	2.01	0.42
17:Y1:40:ILE:O	17:Y1:44:LEU:HD13	2.20	0.42
21:i1:378:U:C4	21:i1:379:C:C4	3.07	0.42
21:i1:688:U:O4'	21:i1:689:U:C5	2.73	0.42
21:i1:690:G:N1	21:i1:738:C:N4	2.59	0.42
21:i1:869:A:N6	27:H1:114:GLN:O	2.53	0.42
21:i1:1217:A:H2'	21:i1:1218:C:C6	2.54	0.42
21:i1:1860:A:O2'	21:i1:1861:G:OP2	2.26	0.42
22:A1:21:ALA:HB1	22:A1:169:HIS:O	2.19	0.42
24:D1:64:ARG:CG	29:K1:95:ARG:HH22	2.27	0.42
24:D1:135:GLU:HB2	24:D1:187:LYS:HB2	2.02	0.42
27:H1:54:GLY:HA3	27:H1:57:ARG:HH21	1.85	0.42
28:I1:142:SER:HA	28:I1:146:GLN:HG2	2.02	0.42
30:L1:125:ILE:O	30:L1:146:THR:N	2.51	0.42
31:P1:116:LEU:HD22	31:P1:116:LEU:HA	1.88	0.42
9:g2:14:HIS:ND1	9:g2:15:ASN:N	2.68	0.42
10:C2:68:ARG:CD	10:C2:277:HIS:HB2	2.49	0.42
10:C2:273:LEU:CG	10:C2:280:VAL:CG1	2.65	0.42
11:G2:146:ASN:O	11:G2:147:LEU:HB3	2.20	0.42
16:W2:80:ASP:OD2	21:i2:803:C:H4'	2.19	0.42
21:i2:45:A:N6	21:i2:481:C:H4'	2.35	0.42
21:i2:378:U:C4	21:i2:379:C:C4	3.07	0.42
21:i2:517:C:H2'	21:i2:518:G:O4'	2.20	0.42
21:i2:535:G:H22	21:i2:548:C:H42	1.67	0.42
21:i2:735:C:H6	21:i2:735:C:C3'	2.30	0.42
21:i2:1173:A:OP1	35:j2:17:ARG:NH2	2.44	0.42
22:A2:21:ALA:HB1	22:A2:169:HIS:O	2.20	0.42
23:B2:100:PHE:HZ	23:B2:215:VAL:HG11	1.84	0.42
24:D2:105:LEU:HD23	24:D2:184:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E2:191:ARG:NE	25:E2:245:ARG:HB3	2.35	0.42
29:K2:89:ILE:O	29:K2:91:PRO:HD3	2.19	0.42
34:S2:25:LYS:HD3	34:S2:25:LYS:HA	1.89	0.42
34:S2:40:TYR:HE1	34:S2:79:ILE:HG21	1.85	0.42
7:d3:40:ARG:HD2	21:i3:1256:G:C8	2.55	0.42
10:C3:125:LYS:CE	21:i3:1357:A:OP1	2.68	0.42
13:M3:125:GLU:O	13:M3:129:LYS:N	2.48	0.42
18:Z3:77:LEU:HD23	18:Z3:78:LYS:H	1.85	0.42
21:i3:502:C:O4'	25:E3:66:MET:HG3	2.20	0.42
21:i3:896:U:O4	21:i3:898:U:N3	2.52	0.42
21:i3:1234:C:H4'	21:i3:1246:A:H61	1.85	0.42
21:i3:1236:G:H5'	31:P3:133:ILE:HB	2.02	0.42
21:i3:1673:U:H2'	21:i3:1674:G:O4'	2.20	0.42
21:i3:1751:C:C3'	21:i3:1751:C:C6	3.03	0.42
22:A3:3:GLY:HA2	22:A3:63:ARG:NH2	2.35	0.42
25:E3:238:LEU:CD1	25:E3:242:LYS:HG2	2.50	0.42
26:F3:36:GLN:C	26:F3:38:TYR:H	2.28	0.42
26:F3:157:GLY:HA2	26:F3:160:GLU:OE2	2.20	0.42
27:H3:10:LYS:NZ	27:H3:14:GLU:OE2	2.48	0.42
27:H3:15:LYS:H	27:H3:16:PRO:HD2	1.85	0.42
27:H3:43:LEU:HB2	27:H3:72:PHE:CZ	2.54	0.42
27:H3:101:LEU:HA	27:H3:102:PRO:HD3	1.79	0.42
33:R3:67:ARG:CZ	33:R3:67:ARG:HB3	2.49	0.42
33:R3:69:ILE:HG12	33:R3:70:SER:HA	2.02	0.42
2:U4:56:MET:HB2	2:U4:86:LYS:HB2	2.02	0.42
7:d4:40:ARG:HD2	21:i4:1256:G:C8	2.55	0.42
8:f4:92:LYS:C	21:i4:1304:U:C4'	2.64	0.42
10:C4:65:LYS:N	10:C4:277:HIS:CE1	2.86	0.42
10:C4:73:MET:O	10:C4:73:MET:HG3	2.20	0.42
11:G4:14:LYS:HG2	11:G4:124:LEU:CD1	2.50	0.42
11:G4:66:GLY:CA	21:i4:1745:A:C8	3.03	0.42
11:G4:143:LYS:HD3	21:i4:1778:C:O5'	2.10	0.42
11:G4:221:LYS:HA	11:G4:224:ARG:HB3	2.00	0.42
12:J4:32:ILE:HD11	12:J4:40:LYS:HG2	2.01	0.42
12:J4:173:VAL:HG11	21:i4:561:A:H62	1.84	0.42
17:Y4:28:LEU:HG	17:Y4:30:PRO:HD3	2.00	0.42
18:Z4:66:LYS:HB2	18:Z4:111:ARG:HD2	2.01	0.42
21:i4:422:U:O2'	21:i4:652:U:H5''	2.20	0.42
21:i4:535:G:H22	21:i4:548:C:H42	1.67	0.42
21:i4:629:A:C6	21:i4:632:C:C2	3.08	0.42
21:i4:750:C:N4	21:i4:794:A:H1'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:869:A:N6	27:H4:114:GLN:O	2.53	0.42
21:i4:1142:G:H2'	21:i4:1144:A:OP2	2.19	0.42
21:i4:1609:C:OP2	34:S4:134:GLN:NE2	2.53	0.42
21:i4:1673:U:OP1	32:Q4:79:ALA:N	2.49	0.42
21:i4:1719:A:OP1	35:j4:24:SER:OG	2.38	0.42
22:A4:89:LYS:NZ	33:R4:82:ASP:OD2	2.23	0.42
23:B4:87:ILE:N	23:B4:99:ASN:O	2.53	0.42
31:P4:49:LEU:HD23	31:P4:49:LEU:HA	1.80	0.42
5:a5:45:VAL:HG11	5:a5:64:LEU:HD21	2.00	0.42
9:g5:68:ASP:O	9:g5:81:GLY:N	2.29	0.42
9:g5:69:VAL:HG23	9:g5:80:SER:HB3	2.02	0.42
10:C5:204:ILE:HA	10:C5:221:ASP:OD1	2.20	0.42
11:G5:63:MET:HE1	11:G5:100:CYS:HA	2.02	0.42
11:G5:146:ASN:O	11:G5:147:LEU:HB3	2.19	0.42
12:J5:28:GLU:HA	12:J5:31:LEU:HD13	2.01	0.42
13:M5:48:HIS:O	13:M5:74:ILE:HG23	2.20	0.42
14:N5:71:ILE:HD12	14:N5:71:ILE:H	1.85	0.42
16:W5:42:MET:HE1	27:H5:146:VAL:HG11	2.02	0.42
19:b5:19:HIS:CD2	21:i5:1129:G:H5'	2.55	0.42
19:b5:21:LYS:C	19:b5:23:ARG:N	2.77	0.42
19:b5:34:ASP:OD1	19:b5:35:VAL:N	2.52	0.42
21:i5:306:C:H5'	21:i5:309:G:OP2	2.20	0.42
21:i5:609:U:O2	21:i5:635:G:N2	2.53	0.42
21:i5:1069:U:P	36:k5:18:LYS:HZ3	2.24	0.42
21:i5:1226:G:N1	21:i5:1639:G:OP2	2.50	0.42
21:i5:1717:C:O2'	35:j5:21:ARG:HG3	2.20	0.42
27:H5:43:LEU:HB2	27:H5:72:PHE:CZ	2.54	0.42
31:P5:49:LEU:HD23	31:P5:49:LEU:HA	1.78	0.42
32:Q5:10:VAL:HG22	32:Q5:98:LYS:HD3	2.02	0.42
34:S5:81:ASP:O	34:S5:87:GLN:NE2	2.49	0.42
2:U6:28:ASN:ND2	2:U6:30:LYS:HB3	2.34	0.42
2:U6:91:LEU:HB3	2:U6:93:SER:HB3	2.02	0.42
7:d6:16:GLN:NE2	7:d6:27:ARG:O	2.34	0.42
8:f6:131:PHE:O	21:i6:1310:U:P	2.78	0.42
9:g6:106:LYS:HB2	9:g6:126:ASP:CB	2.49	0.42
11:G6:153:VAL:C	11:G6:155:GLN:H	2.28	0.42
14:N6:4:MET:HE2	14:N6:5:HIS:HE2	1.83	0.42
15:O6:39:ASP:N	15:O6:69:SER:HB3	2.35	0.42
21:i6:530:U:N3	21:i6:531:A:N7	2.67	0.42
21:i6:745:C:H4'	27:H6:107:LYS:HB3	2.02	0.42
21:i6:1234:C:H4'	21:i6:1246:A:H61	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1412:C:H5'	21:i6:1413:G:OP1	2.20	0.42
21:i6:1680:G:H2'	21:i6:1681:U:C6	2.55	0.42
23:B6:68:GLU:HA	23:B6:84:PHE:O	2.19	0.42
31:P6:49:LEU:HD23	31:P6:49:LEU:HA	1.78	0.42
32:Q6:3:SER:O	32:Q6:4:LYS:HB3	2.20	0.42
32:Q6:4:LYS:NZ	32:Q6:99:TYR:HB3	2.34	0.42
34:S6:17:ASN:HD22	34:S6:101:ASN:ND2	2.09	0.42
36:k1:51:LYS:HB2	36:k1:63:THR:HG23	2.02	0.42
36:k1:85:LEU:HD23	36:k1:142:ALA:HB3	2.02	0.42
36:k1:95:GLN:H	36:k1:134:ILE:HD13	1.84	0.42
36:k2:51:LYS:HB2	36:k2:63:THR:HG23	2.01	0.42
36:k2:83:ARG:CZ	36:k2:175:TRP:CZ3	3.03	0.42
37:l4:181:LYS:HB2	37:l4:184:GLU:CD	2.45	0.42
9:g1:72:SER:OG	9:g1:115:SER:HA	2.20	0.41
9:g1:164:ILE:HG23	9:g1:178:ASN:HA	2.01	0.41
11:G1:14:LYS:HG2	11:G1:124:LEU:CD1	2.50	0.41
14:N1:125:LEU:O	14:N1:128:TYR:HB3	2.20	0.41
16:W1:111:MET:HG3	16:W1:112:ASP:H	1.83	0.41
21:i1:502:C:O4'	25:E1:66:MET:HG3	2.20	0.41
21:i1:587:A:H1'	21:i1:589:G:H22	1.83	0.41
21:i1:1013:U:OP1	21:i1:1129:G:O2'	2.32	0.41
21:i1:1237:C:H4'	31:P1:131:PRO:HA	2.02	0.41
21:i1:1614:A:N6	31:P1:40:ARG:HH12	2.17	0.41
21:i1:1706:G:H2'	21:i1:1707:U:C6	2.55	0.41
21:i1:1755:C:C1'	21:i1:1777:G:H22	2.31	0.41
21:i1:1833:C:O5'	21:i1:1833:C:H6	2.03	0.41
23:B1:220:LYS:C	23:B1:222:LYS:H	2.28	0.41
24:D1:154:ASP:OD1	24:D1:155:GLY:N	2.53	0.41
26:F1:191:LYS:HA	26:F1:194:ASP:CB	2.46	0.41
31:P1:34:MET:CA	31:P1:42:ARG:HG3	2.50	0.41
34:S1:31:THR:HG23	34:S1:37:GLY:HA2	2.02	0.41
1:T2:133:ARG:HH22	21:i2:1421:A:P	2.43	0.41
2:U2:56:MET:HB2	2:U2:86:LYS:HB2	2.02	0.41
7:d2:33:LYS:HE2	7:d2:34:TYR:CE1	2.54	0.41
8:f2:131:PHE:O	21:i2:1310:U:P	2.78	0.41
14:N2:71:ILE:H	14:N2:71:ILE:HD12	1.85	0.41
14:N2:150:VAL:CG1	14:N2:151:ALA:N	2.73	0.41
15:O2:34:PHE:HE1	15:O2:98:ARG:CZ	2.33	0.41
15:O2:65:ASP:O	15:O2:68:GLU:HB2	2.20	0.41
16:W2:111:MET:HG3	16:W2:112:ASP:H	1.84	0.41
21:i2:379:C:OP2	28:I2:181:GLN:NE2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:958:G:N3	21:i2:958:G:H2'	2.35	0.41
24:D2:135:GLU:HB2	24:D2:187:LYS:HB2	2.02	0.41
25:E2:36:HIS:HD1	25:E2:41:CYS:HB3	1.85	0.41
25:E2:51:ARG:NH2	25:E2:109:PHE:O	2.53	0.41
26:F2:126:THR:C	26:F2:127:ARG:CG	2.87	0.41
28:I2:142:SER:HA	28:I2:146:GLN:HG2	2.01	0.41
33:R2:65:PRO:HG3	33:R2:73:LEU:O	2.20	0.41
34:S2:108:ARG:NH2	21:i4:1773:C:C5'	2.83	0.41
2:U3:31:SER:O	2:U3:35:VAL:HG23	2.20	0.41
5:a3:100:ARG:C	5:a3:102:ARG:N	2.74	0.41
7:d3:33:LYS:HE2	7:d3:34:TYR:CE1	2.55	0.41
11:G3:154:ARG:O	21:i3:77:A:O4'	2.37	0.41
12:J3:28:GLU:HA	12:J3:31:LEU:HD13	2.01	0.41
12:J3:38:ARG:HG2	12:J3:39:ASN:H	1.85	0.41
21:i3:378:U:C4	21:i3:379:C:C4	3.07	0.41
21:i3:493:A:N1	21:i3:510:G:O2'	2.51	0.41
21:i3:555:A:OP1	21:i3:589:G:H5'	2.20	0.41
21:i3:558:G:H2'	21:i3:559:G:C8	2.55	0.41
21:i3:1223:A:H2'	21:i3:1224:G:O4'	2.20	0.41
21:i3:1349:G:O6	21:i3:1379:A:N6	2.52	0.41
23:B3:87:ILE:N	23:B3:99:ASN:O	2.53	0.41
23:B3:143:THR:HB	23:B3:205:TYR:HE2	1.84	0.41
23:B3:220:LYS:C	23:B3:222:LYS:H	2.28	0.41
34:S3:31:THR:HG23	34:S3:37:GLY:HA2	2.01	0.41
2:U4:28:ASN:ND2	2:U4:30:LYS:HB3	2.34	0.41
2:U4:56:MET:HE1	21:i4:1580:A:C8	2.55	0.41
4:X4:114:ASP:OD2	21:i4:618:C:N4	2.52	0.41
9:g4:72:SER:OG	9:g4:115:SER:HA	2.20	0.41
10:C4:185:THR:HG22	10:C4:194:ARG:HB3	2.02	0.41
11:G4:153:VAL:C	11:G4:155:GLN:H	2.28	0.41
12:J4:40:LYS:NZ	21:i4:641:A:OP1	2.35	0.41
12:J4:94:LEU:HA	12:J4:97:ILE:HD12	2.02	0.41
15:O4:65:ASP:O	15:O4:68:GLU:HB2	2.20	0.41
19:b4:19:HIS:CD2	21:i4:1129:G:H5'	2.55	0.41
21:i4:45:A:N6	21:i4:481:C:H4'	2.35	0.41
21:i4:148:U:H2'	21:i4:149:A:C8	2.55	0.41
21:i4:213:G:C2	21:i4:214:U:C4	3.07	0.41
21:i4:303:C:H5''	28:I4:75:LYS:HD3	2.01	0.41
21:i4:872:A:O2'	21:i4:873:G:OP2	2.33	0.41
22:A4:184:ARG:HB3	22:A4:191:ARG:HH21	1.85	0.41
25:E4:36:HIS:HD1	25:E4:41:CYS:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E4:180:LEU:HD12	25:E4:228:ILE:HG13	2.02	0.41
29:K4:5:LYS:O	29:K4:9:ILE:N	2.52	0.41
32:Q4:3:SER:O	32:Q4:4:LYS:HB3	2.20	0.41
2:U5:76:THR:HA	32:Q5:132:PHE:CE2	2.55	0.41
4:X5:85:VAL:HG12	4:X5:122:VAL:HG11	2.01	0.41
9:g5:32:LEU:HD23	9:g5:71:ILE:HD12	2.02	0.41
17:Y5:20:ARG:HB3	17:Y5:76:TYR:CD1	2.55	0.41
21:i5:1119:A:C6	21:i5:1120:U:H1'	2.55	0.41
21:i5:1234:C:H4'	21:i5:1246:A:H61	1.85	0.41
21:i5:1380:C:H1'	22:A5:110:ASN:ND2	2.31	0.41
21:i5:1643:U:O2'	21:i5:1644:C:H6	2.02	0.41
21:i5:1832:A:H8	21:i5:1832:A:O5'	2.03	0.41
22:A5:144:THR:N	22:A5:158:ASP:OD2	2.53	0.41
23:B5:62:LEU:O	23:B5:88:THR:HG21	2.20	0.41
23:B5:81:PHE:O	23:B5:105:LEU:HD12	2.20	0.41
24:D5:25:LEU:HD23	24:D5:37:VAL:HG11	2.02	0.41
24:D5:75:LYS:NZ	29:K5:18:GLU:HG2	2.34	0.41
26:F5:14:THR:HA	26:F5:15:PRO:HA	1.72	0.41
27:H5:72:PHE:O	27:H5:76:GLN:N	2.51	0.41
27:H5:163:GLN:HG2	27:H5:189:PHE:CZ	2.55	0.41
29:K5:32:HIS:ND1	29:K5:33:PRO:HD2	2.35	0.41
30:L5:125:ILE:CG2	30:L5:146:THR:OG1	2.67	0.41
31:P5:64:LYS:HA	31:P5:73:PRO:HB3	2.01	0.41
32:Q5:3:SER:O	32:Q5:4:LYS:HB3	2.20	0.41
33:R5:7:LYS:NZ	33:R5:11:LYS:HD2	2.35	0.41
33:R5:98:VAL:HB	33:R5:115:SER:HB3	2.00	0.41
1:T6:40:ALA:N	1:T6:96:SER:HB2	2.35	0.41
7:d6:33:LYS:HE2	7:d6:34:TYR:CE1	2.55	0.41
9:g6:69:VAL:HG23	9:g6:80:SER:HB3	2.02	0.41
9:g6:127:LYS:NZ	33:R6:37:GLU:OE2	2.52	0.41
10:C6:204:ILE:HA	10:C6:221:ASP:OD1	2.19	0.41
15:O6:65:ASP:O	15:O6:68:GLU:HB2	2.20	0.41
16:W6:42:MET:HE1	27:H6:146:VAL:HG11	2.02	0.41
21:i6:689:U:O5'	21:i6:689:U:C6	2.70	0.41
21:i6:1535:U:O2'	26:F6:88:MET:HE2	2.20	0.41
21:i6:1643:U:O2'	21:i6:1644:C:H6	2.02	0.41
28:I6:178:ARG:HG3	28:I6:178:ARG:O	2.20	0.41
36:k4:146:GLY:C	36:k4:167:ILE:HD11	2.45	0.41
36:k5:149:LYS:HE3	36:k5:165:GLU:OE1	2.20	0.41
36:k6:112:MET:HG2	36:k6:114:PRO:HD3	1.98	0.41
37:l3:136:THR:HG22	37:l3:137:PHE:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:l5:185:VAL:HA	37:l5:186:ASP:HA	1.51	0.41
37:l6:181:LYS:HB2	37:l6:184:GLU:CD	2.45	0.41
1:T1:23:LYS:HD3	1:T1:54:TYR:CG	2.56	0.41
3:V1:36:VAL:O	22:A1:67:ALA:HB2	2.20	0.41
11:G1:139:SER:O	11:G1:142:ARG:HB2	2.20	0.41
11:G1:153:VAL:C	11:G1:155:GLN:H	2.28	0.41
11:G1:160:LYS:H	11:G1:172:LYS:HG2	1.85	0.41
15:O1:34:PHE:HE1	15:O1:98:ARG:CZ	2.32	0.41
16:W1:42:MET:HE1	27:H1:146:VAL:HG11	2.02	0.41
17:Y1:110:ARG:NH1	17:Y1:128:GLY:O	2.43	0.41
19:b1:21:LYS:C	19:b1:23:ARG:N	2.78	0.41
21:i1:54:A:H3'	21:i1:451:G:H22	1.85	0.41
21:i1:148:U:H2'	21:i1:149:A:C8	2.55	0.41
21:i1:306:C:H5'	21:i1:309:G:OP2	2.20	0.41
21:i1:1058:A:H2	37:l1:126:LYS:CE	2.23	0.41
21:i1:1215:C:O2'	21:i1:1645:C:OP2	2.37	0.41
21:i1:1785:C:O2'	21:i1:1786:U:H6	2.03	0.41
22:A1:212:LYS:HE3	22:A1:212:LYS:HB3	1.63	0.41
23:B1:40:ASN:N	23:B1:75:GLN:OE1	2.34	0.41
23:B1:62:LEU:O	23:B1:88:THR:HG21	2.20	0.41
24:D1:61:GLU:OE2	29:K1:73:ASN:ND2	2.53	0.41
29:K1:2:LEU:HD12	29:K1:3:MET:HB2	2.02	0.41
29:K1:5:LYS:O	29:K1:9:ILE:N	2.53	0.41
29:K1:16:PHE:CE2	29:K1:85:LEU:HD13	2.55	0.41
31:P1:85:ILE:HD11	31:P1:116:LEU:HD23	2.02	0.41
33:R1:119:VAL:HA	33:R1:120:THR:HA	1.71	0.41
1:T2:115:LYS:HA	1:T2:121:ARG:HA	2.01	0.41
2:U2:21:ARG:HB3	2:U2:115:THR:HG21	2.02	0.41
7:d2:6:LEU:HA	7:d2:7:TYR:HA	1.76	0.41
8:f2:93:HIS:CG	8:f2:94:LYS:H	2.38	0.41
9:g2:162:ASN:HA	9:g2:163:PRO:HD3	1.88	0.41
10:C2:73:MET:O	10:C2:73:MET:HG3	2.20	0.41
10:C2:145:LYS:HG3	21:i2:1348:G:H4'	2.02	0.41
11:G2:67:VAL:N	11:G2:100:CYS:SG	2.90	0.41
12:J2:28:GLU:HA	12:J2:31:LEU:HD13	2.01	0.41
12:J2:94:LEU:HA	12:J2:97:ILE:HD12	2.02	0.41
16:W2:32:LYS:HA	16:W2:35:VAL:HG22	2.02	0.41
16:W2:42:MET:HE1	27:H2:146:VAL:HG11	2.02	0.41
17:Y2:13:MET:O	17:Y2:22:GLN:N	2.47	0.41
17:Y2:33:ALA:HB2	21:i2:582:C:O4'	2.20	0.41
21:i2:115:U:H2'	21:i2:116:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:296:U:O2'	25:E2:130:PHE:O	2.24	0.41
21:i2:534:G:H2'	21:i2:535:G:H8	1.84	0.41
21:i2:1236:G:H5''	31:P2:133:ILE:CG1	2.50	0.41
21:i2:1290:G:N2	21:i2:1310:U:O2	2.54	0.41
21:i2:1673:U:H2'	21:i2:1674:G:O4'	2.20	0.41
21:i2:1751:C:O2	21:i2:1784:G:C5	2.73	0.41
22:A2:184:ARG:HB3	22:A2:191:ARG:HH21	1.85	0.41
24:D2:126:ILE:HG21	24:D2:134:CYS:HB3	2.01	0.41
27:H2:18:GLU:HG2	27:H2:19:PHE:N	2.35	0.41
28:I2:123:ARG:CZ	15:O5:64:ALA:O	2.68	0.41
30:L2:48:LYS:O	30:L2:52:GLU:HG2	2.20	0.41
31:P2:45:LEU:HD12	31:P2:45:LEU:HA	1.84	0.41
34:S2:105:ASN:CG	21:i4:1760:G:O2'	2.63	0.41
6:c3:22:GLY:HA3	6:c3:27:CYS:SG	2.61	0.41
8:f3:93:HIS:CG	8:f3:94:LYS:H	2.38	0.41
8:f3:130:VAL:HG13	21:i3:1310:U:P	2.57	0.41
10:C3:204:ILE:HA	10:C3:221:ASP:OD1	2.20	0.41
11:G3:21:GLU:O	11:G3:25:ARG:HG2	2.20	0.41
11:G3:78:SER:OG	11:G3:79:LYS:N	2.53	0.41
12:J3:114:VAL:HG13	12:J3:119:LEU:HD22	2.02	0.41
13:M3:36:ARG:HE	13:M3:40:LYS:NZ	2.08	0.41
14:N3:122:ILE:O	14:N3:126:ALA:N	2.33	0.41
18:Z3:55:TYR:HB3	18:Z3:59:CYS:SG	2.59	0.41
21:i3:291:G:H1'	21:i3:292:A:H5''	2.01	0.41
21:i3:412:G:O2'	21:i3:812:A:N6	2.51	0.41
21:i3:809:A:H4'	25:E3:221:ARG:CZ	2.49	0.41
21:i3:1673:U:OP1	32:Q3:79:ALA:N	2.50	0.41
25:E3:191:ARG:NE	25:E3:245:ARG:HB3	2.36	0.41
31:P3:41:GLN:OE1	31:P3:84:ILE:CG1	2.68	0.41
33:R3:7:LYS:NZ	33:R3:11:LYS:HD2	2.35	0.41
4:X4:60:LYS:HG2	4:X4:114:ASP:O	2.20	0.41
8:f4:80:ARG:NE	21:i4:1509:U:C4	2.87	0.41
11:G4:154:ARG:O	21:i4:77:A:O4'	2.37	0.41
20:e4:45:VAL:HG23	21:i4:535:G:H4'	1.96	0.41
21:i4:133:C:H5'	21:i4:134:C:H5'	2.01	0.41
21:i4:440:G:O2'	21:i4:1737:G:H1'	2.21	0.41
21:i4:1234:C:H4'	21:i4:1246:A:H61	1.85	0.41
21:i4:1288:U:HO2'	21:i4:1312:G:N2	2.19	0.41
21:i4:1372:U:OP1	21:i4:1385:G:N2	2.40	0.41
21:i4:1490:G:H2'	21:i4:1491:G:H8	1.83	0.41
23:B4:220:LYS:C	23:B4:222:LYS:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:F4:19:LEU:H	26:F4:48:TYR:HE1	1.66	0.41
27:H4:54:GLY:HA3	27:H4:57:ARG:HH21	1.85	0.41
29:K4:16:PHE:CE2	29:K4:85:LEU:HD13	2.55	0.41
32:Q4:87:SER:O	32:Q4:91:ALA:N	2.50	0.41
2:U5:20:ILE:CD1	2:U5:116:ILE:O	2.68	0.41
7:d5:33:LYS:HE2	7:d5:34:TYR:CE1	2.55	0.41
12:J5:136:ARG:HD3	12:J5:160:SER:HA	2.01	0.41
16:W5:30:CYS:HB3	16:W5:59:GLY:H	1.85	0.41
17:Y5:88:LYS:HZ3	17:Y5:97:TYR:HD2	1.66	0.41
17:Y5:90:ARG:HA	17:Y5:93:ARG:HG2	2.02	0.41
21:i5:378:U:H5'	28:I5:97:VAL:CG1	2.51	0.41
21:i5:837:A:O2'	21:i5:839:C:OP1	2.32	0.41
21:i5:869:A:N6	27:H5:114:GLN:O	2.53	0.41
21:i5:1535:U:O2'	26:F5:88:MET:HE2	2.20	0.41
21:i5:1706:G:H4'	35:j5:9:ARG:NH2	2.35	0.41
21:i5:1771:G:H3'	21:i5:1771:G:N3	2.35	0.41
22:A5:123:VAL:HG12	22:A5:145:ILE:CG1	2.50	0.41
22:A5:201:LEU:N	33:R5:85:VAL:HG11	2.35	0.41
23:B5:87:ILE:N	23:B5:99:ASN:O	2.53	0.41
25:E5:88:ASP:O	25:E5:100:ARG:HA	2.19	0.41
28:I5:142:SER:HA	28:I5:146:GLN:HG2	2.02	0.41
31:P5:85:ILE:HD11	31:P5:116:LEU:HD23	2.02	0.41
1:T6:133:ARG:HH22	21:i6:1421:A:P	2.43	0.41
2:U6:56:MET:HB2	2:U6:86:LYS:HB2	2.02	0.41
2:U6:116:ILE:HB	2:U6:117:ALA:H	1.72	0.41
3:V6:28:ASP:OD2	3:V6:31:SER:HB3	2.21	0.41
4:X6:85:VAL:HG12	4:X6:122:VAL:HG11	2.02	0.41
9:g6:152:SER:HB2	9:g6:168:CYS:SG	2.61	0.41
9:g6:218:LEU:HB3	9:g6:227:LEU:HD12	2.01	0.41
9:g6:245:ARG:O	9:g6:247:TRP:N	2.52	0.41
11:G6:21:GLU:O	11:G6:25:ARG:HG2	2.20	0.41
12:J6:28:GLU:HA	12:J6:31:LEU:HD13	2.01	0.41
15:O6:38:ASN:C	15:O6:69:SER:HB3	2.45	0.41
17:Y6:56:PHE:HB2	17:Y6:74:MET:HB3	2.02	0.41
17:Y6:90:ARG:HA	17:Y6:93:ARG:HG2	2.02	0.41
21:i6:819:G:H4'	25:E6:255:ARG:NH2	2.34	0.41
21:i6:1237:C:H4'	31:P6:131:PRO:HA	2.02	0.41
21:i6:1537:A:H2'	21:i6:1538:C:O4'	2.20	0.41
21:i6:1707:U:O2'	21:i6:1849:G:N2	2.53	0.41
21:i6:1849:G:O6	37:l6:149:ALA:HB2	2.10	0.41
22:A6:77:ILE:HA	22:A6:99:ILE:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A6:144:THR:N	22:A6:158:ASP:OD2	2.53	0.41
24:D6:135:GLU:HB2	24:D6:187:LYS:HB2	2.02	0.41
28:I6:177:SER:HB2	28:I6:186:ASP:HB2	2.02	0.41
28:I6:177:SER:OG	28:I6:184:ARG:O	2.30	0.41
30:L6:144:LYS:NZ	30:L6:146:THR:CG2	2.72	0.41
31:P6:40:ARG:HD2	31:P6:40:ARG:HA	1.74	0.41
32:Q6:138:ARG:O	32:Q6:140:ARG:HG3	2.19	0.41
37:I6:127:TYR:CG	37:I6:169:ASP:HB3	2.53	0.41
37:I6:136:THR:HG22	37:I6:137:PHE:HB3	2.01	0.41
1:T1:133:ARG:HH22	21:i1:1421:A:P	2.43	0.41
3:V1:28:ASP:OD2	3:V1:31:SER:HB3	2.21	0.41
5:a1:100:ARG:HD2	5:a1:101:PHE:N	2.35	0.41
7:d1:25:SER:OG	29:K1:65:ARG:NH1	2.53	0.41
7:d1:40:ARG:HD2	21:i1:1256:G:C8	2.55	0.41
8:f1:78:LYS:CE	21:i1:1328:G:OP1	2.68	0.41
9:g1:152:SER:HB2	9:g1:168:CYS:SG	2.60	0.41
9:g1:168:CYS:SG	9:g1:169:GLY:N	2.87	0.41
9:g1:245:ARG:O	9:g1:247:TRP:N	2.53	0.41
10:C1:107:LEU:HB2	10:C1:127:PHE:HB2	2.02	0.41
11:G1:21:GLU:O	11:G1:25:ARG:HG2	2.20	0.41
11:G1:180:VAL:HG22	21:i1:143:U:H5	1.83	0.41
16:W1:35:VAL:O	16:W1:39:THR:HG23	2.20	0.41
21:i1:291:G:H1'	21:i1:292:A:H5''	2.02	0.41
21:i1:556:U:O4	21:i1:588:G:C5	2.72	0.41
21:i1:1036:A:C2	21:i1:1844:U:H4'	2.56	0.41
21:i1:1172:U:C5'	35:j1:14:LYS:CE	2.82	0.41
23:B1:197:ILE:HD11	23:B1:210:VAL:HG11	2.01	0.41
26:F1:157:GLY:HA2	26:F1:160:GLU:OE2	2.20	0.41
27:H1:145:ARG:HH11	27:H1:153:LEU:HD12	1.85	0.41
28:I1:84:ASN:HD21	28:I1:90:LEU:HD12	1.85	0.41
33:R1:7:LYS:NZ	33:R1:11:LYS:HD2	2.36	0.41
1:T2:89:PRO:HD2	21:i2:1665:G:H5''	2.03	0.41
3:V2:28:ASP:OD2	3:V2:31:SER:HB3	2.20	0.41
8:f2:133:ALA:O	8:f2:139:HIS:HA	2.20	0.41
9:g2:32:LEU:HD23	9:g2:71:ILE:HD12	2.03	0.41
9:g2:245:ARG:O	9:g2:247:TRP:N	2.52	0.41
10:C2:204:ILE:HA	10:C2:221:ASP:OD1	2.20	0.41
11:G2:10:THR:OG1	11:G2:128:THR:HG21	2.20	0.41
11:G2:216:ARG:O	11:G2:220:ALA:N	2.53	0.41
12:J2:38:ARG:HG2	12:J2:39:ASN:H	1.85	0.41
17:Y2:22:GLN:NE2	25:E2:56:LEU:HD12	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:133:C:H5'	21:i2:134:C:H5'	2.01	0.41
21:i2:312:G:C5'	21:i2:313:A:H5'	2.49	0.41
21:i2:533:A:N6	21:i2:552:G:H1'	2.35	0.41
21:i2:689:U:O4	27:H2:122:LEU:CD2	2.67	0.41
21:i2:689:U:O5'	21:i2:689:U:C6	2.73	0.41
21:i2:1175:G:P	35:j2:21:ARG:HH22	2.23	0.41
23:B2:220:LYS:C	23:B2:222:LYS:H	2.28	0.41
24:D2:140:GLY:HA3	24:D2:182:LEU:HB2	2.02	0.41
26:F2:157:GLY:HA2	26:F2:160:GLU:OE2	2.20	0.41
30:L2:31:GLU:CA	23:B5:21:VAL:HG22	2.49	0.41
31:P2:85:ILE:HD11	31:P2:116:LEU:HD23	2.02	0.41
32:Q2:10:VAL:HG22	32:Q2:98:LYS:HD3	2.02	0.41
32:Q2:15:ARG:HG2	32:Q2:20:THR:OG1	2.20	0.41
1:T3:40:ALA:N	1:T3:96:SER:HB2	2.35	0.41
1:T3:133:ARG:NH2	21:i3:1420:G:O3'	2.52	0.41
1:T3:133:ARG:HH22	21:i3:1421:A:P	2.43	0.41
6:c3:6:VAL:HG13	6:c3:8:PRO:HD3	2.02	0.41
8:f3:133:ALA:O	8:f3:139:HIS:HA	2.20	0.41
9:g3:32:LEU:HD23	9:g3:71:ILE:HD12	2.03	0.41
9:g3:185:LYS:CG	24:D3:226:GLN:HE21	2.33	0.41
10:C3:68:ARG:HD2	10:C3:277:HIS:HB2	1.96	0.41
10:C3:104:ASP:OD1	10:C3:105:GLU:N	2.53	0.41
11:G3:160:LYS:H	11:G3:172:LYS:HG2	1.84	0.41
14:N3:90:HIS:HA	14:N3:93:LYS:HE3	2.01	0.41
16:W3:12:LYS:NZ	21:i3:1153:C:OP1	2.48	0.41
18:Z3:82:SER:HB2	21:i3:1598:G:H8	1.85	0.41
21:i3:316:G:C2	21:i3:335:G:C2	3.09	0.41
21:i3:609:U:O2	21:i3:635:G:N2	2.54	0.41
21:i3:795:A:N6	27:H3:109:ARG:HH22	2.13	0.41
21:i3:815:U:H2'	21:i3:816:A:C8	2.46	0.41
21:i3:819:G:H4'	25:E3:255:ARG:NH2	2.35	0.41
21:i3:1521:C:N3	34:S3:137:LYS:HG3	2.36	0.41
21:i3:1537:A:H2'	21:i3:1538:C:O4'	2.20	0.41
21:i3:1592:C:H4'	32:Q3:44:PRO:HB2	2.02	0.41
21:i3:1694:U:H4'	21:i3:1833:C:O2'	2.20	0.41
21:i3:1771:G:H3'	21:i3:1771:G:N3	2.35	0.41
22:A3:201:LEU:N	33:R3:85:VAL:HG11	2.36	0.41
24:D3:64:ARG:CG	29:K3:95:ARG:HH22	2.27	0.41
28:I3:90:LEU:HD13	28:I3:97:VAL:HG21	2.02	0.41
28:I3:142:SER:HA	28:I3:146:GLN:HG2	2.01	0.41
29:K3:59:LYS:O	29:K3:70:TYR:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d4:33:LYS:HE2	7:d4:34:TYR:CE1	2.55	0.41
8:f4:93:HIS:CG	8:f4:94:LYS:H	2.38	0.41
11:G4:231:ARG:HA	11:G4:234:LEU:HD12	2.02	0.41
17:Y4:40:ILE:O	17:Y4:44:LEU:HD13	2.21	0.41
21:i4:609:U:O2	21:i4:635:G:N2	2.53	0.41
21:i4:958:G:N3	21:i4:958:G:H2'	2.34	0.41
21:i4:1349:G:O6	21:i4:1379:A:N6	2.52	0.41
21:i4:1535:U:O2'	26:F4:88:MET:HE2	2.20	0.41
21:i4:1615:U:P	31:P4:43:ARG:NH2	2.92	0.41
21:i4:1829:G:OP2	37:I4:126:LYS:CE	2.67	0.41
22:A4:144:THR:N	22:A4:158:ASP:OD2	2.53	0.41
24:D4:34:TYR:HA	24:D4:52:ALA:HB1	2.02	0.41
24:D4:105:LEU:HD23	24:D4:184:ILE:HD12	2.01	0.41
27:H4:72:PHE:O	27:H4:76:GLN:N	2.51	0.41
28:I4:84:ASN:HD21	28:I4:90:LEU:HD12	1.85	0.41
2:U5:59:LYS:HG2	24:D5:8:LYS:HZ1	1.84	0.41
3:V5:28:ASP:OD2	3:V5:31:SER:HB3	2.21	0.41
7:d5:25:SER:OG	29:K5:65:ARG:NH1	2.53	0.41
8:f5:93:HIS:CG	8:f5:94:LYS:H	2.39	0.41
8:f5:102:VAL:HG12	8:f5:102:VAL:O	2.20	0.41
9:g5:152:SER:HB2	9:g5:168:CYS:SG	2.60	0.41
9:g5:185:LYS:CG	24:D5:226:GLN:HE21	2.33	0.41
11:G5:14:LYS:HG2	11:G5:124:LEU:CD1	2.50	0.41
11:G5:153:VAL:C	11:G5:155:GLN:H	2.28	0.41
12:J5:9:CYS:HB3	21:i5:519:A:O2'	2.19	0.41
12:J5:38:ARG:HG2	12:J5:39:ASN:H	1.85	0.41
15:O5:38:ASN:C	15:O5:69:SER:HB3	2.45	0.41
19:b5:10:PRO:HB2	19:b5:11:SER:H	1.64	0.41
21:i5:517:C:H2'	21:i5:518:G:O4'	2.20	0.41
21:i5:1036:A:C2	21:i5:1844:U:H4'	2.56	0.41
21:i5:1144:A:C4'	21:i5:1355:C:H41	2.33	0.41
21:i5:1412:C:H5'	21:i5:1413:G:OP1	2.20	0.41
21:i5:1521:C:N3	34:S5:137:LYS:HG3	2.35	0.41
21:i5:1537:A:H2'	21:i5:1538:C:O4'	2.20	0.41
21:i5:1610:G:OP2	34:S5:132:ARG:NE	2.46	0.41
21:i5:1852:C:C5	35:j5:5:TRP:CE2	3.08	0.41
23:B5:71:LEU:HB2	23:B5:82:ARG:HB2	2.02	0.41
26:F5:36:GLN:C	26:F5:38:TYR:H	2.28	0.41
28:I5:90:LEU:HD13	28:I5:97:VAL:HG21	2.02	0.41
32:Q5:15:ARG:HG2	32:Q5:20:THR:OG1	2.20	0.41
33:R5:80:ARG:C	33:R5:82:ASP:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T6:133:ARG:NH2	21:i6:1420:G:O3'	2.52	0.41
2:U6:31:SER:O	2:U6:35:VAL:HG23	2.19	0.41
8:f6:87:THR:CB	8:f6:90:LYS:CE	2.85	0.41
8:f6:93:HIS:CG	8:f6:94:LYS:H	2.39	0.41
9:g6:147:HIS:HB2	9:g6:149:GLU:O	2.20	0.41
11:G6:67:VAL:HG11	11:G6:99:GLY:HA2	2.03	0.41
11:G6:153:VAL:O	11:G6:154:ARG:C	2.62	0.41
11:G6:154:ARG:O	21:i6:77:A:O4'	2.37	0.41
14:N6:99:ARG:NH1	14:N6:143:SER:HA	2.35	0.41
18:Z6:86:ALA:HB1	34:S6:3:LEU:CG	2.49	0.41
20:e6:25:LYS:CD	21:i6:554:A:OP1	2.69	0.41
20:e6:46:VAL:HG22	20:e6:46:VAL:O	2.20	0.41
21:i6:378:U:C4	21:i6:379:C:C4	3.08	0.41
21:i6:1372:U:OP1	21:i6:1385:G:N2	2.40	0.41
28:I6:37:LYS:O	28:I6:60:LEU:N	2.39	0.41
29:K6:16:PHE:CE2	29:K6:85:LEU:HD13	2.55	0.41
34:S6:31:THR:HG23	34:S6:37:GLY:HA2	2.01	0.41
37:l1:136:THR:HG22	37:l1:137:PHE:HB3	2.01	0.41
37:l3:114:LYS:HE3	37:l3:114:LYS:HB3	1.41	0.41
37:l3:181:LYS:HB2	37:l3:184:GLU:CD	2.45	0.41
37:l3:187:ASP:HB3	37:l3:188:ASP:H	1.59	0.41
37:l4:127:TYR:CG	37:l4:169:ASP:HB3	2.53	0.41
2:U1:76:THR:HA	32:Q1:132:PHE:CE2	2.55	0.41
5:a1:43:ASN:OD1	5:a1:66:LYS:NZ	2.47	0.41
9:g1:256:ILE:HD12	9:g1:270:LEU:HD13	2.03	0.41
10:C1:61:MET:HA	10:C1:62:PRO:HD2	1.90	0.41
11:G1:63:MET:HE1	11:G1:100:CYS:HA	2.02	0.41
14:N1:99:ARG:NH1	14:N1:143:SER:HA	2.35	0.41
21:i1:133:C:H5'	21:i1:134:C:H5'	2.01	0.41
21:i1:378:U:H5'	28:I1:97:VAL:CG1	2.51	0.41
21:i1:643:A:H4'	21:i1:644:G:H5'	2.03	0.41
21:i1:745:C:H4'	27:H1:107:LYS:HB3	2.01	0.41
21:i1:950:C:H2'	21:i1:951:C:O4'	2.21	0.41
22:A1:123:VAL:HG12	22:A1:145:ILE:CG1	2.51	0.41
22:A1:184:ARG:HB3	22:A1:191:ARG:HH21	1.85	0.41
22:A1:210:ILE:C	22:A1:212:LYS:H	2.28	0.41
25:E1:51:ARG:NH2	25:E1:109:PHE:O	2.53	0.41
25:E1:180:LEU:HD12	25:E1:228:ILE:HG13	2.02	0.41
30:L1:68:ILE:HA	30:L1:130:GLU:O	2.20	0.41
33:R1:80:ARG:C	33:R1:82:ASP:N	2.76	0.41
6:c2:59:LEU:HD21	26:F2:122:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:f2:99:LYS:HB2	21:i2:1285:G:H21	1.71	0.41
9:g2:112:ALA:HB2	9:g2:154:VAL:HG23	2.02	0.41
10:C2:242:ASP:HA	10:C2:245:SER:OG	2.19	0.41
11:G2:14:LYS:HG2	11:G2:124:LEU:CD1	2.50	0.41
11:G2:145:PHE:CD1	11:G2:145:PHE:O	2.74	0.41
12:J2:114:VAL:HG13	12:J2:119:LEU:HD22	2.02	0.41
16:W2:12:LYS:NZ	21:i2:1153:C:OP1	2.48	0.41
21:i2:306:C:H5'	21:i2:309:G:OP2	2.20	0.41
21:i2:345:U:H1'	25:E2:33:THR:HG23	2.01	0.41
21:i2:493:A:N1	21:i2:510:G:O2'	2.51	0.41
21:i2:950:C:H2'	21:i2:951:C:O4'	2.21	0.41
21:i2:1223:A:H2'	21:i2:1224:G:O4'	2.20	0.41
22:A2:201:LEU:N	33:R2:85:VAL:HG11	2.36	0.41
26:F2:45:TYR:H	26:F2:46:ALA:CA	2.34	0.41
27:H2:145:ARG:HH11	27:H2:153:LEU:HD12	1.85	0.41
28:I2:90:LEU:HD13	28:I2:97:VAL:HG21	2.02	0.41
1:T3:89:PRO:HD2	21:i3:1665:G:H5''	2.02	0.41
1:T3:115:LYS:HA	1:T3:121:ARG:HA	2.01	0.41
5:a3:100:ARG:HD2	5:a3:101:PHE:N	2.36	0.41
5:a3:107:ALA:HB1	5:a3:108:PRO:HA	2.02	0.41
9:g3:14:HIS:ND1	9:g3:15:ASN:N	2.68	0.41
9:g3:72:SER:OG	9:g3:115:SER:HA	2.20	0.41
9:g3:172:LYS:HB3	9:g3:191:HIS:HB3	2.03	0.41
9:g3:256:ILE:HD12	9:g3:270:LEU:HD22	2.03	0.41
10:C3:276:THR:C	10:C3:278:THR:H	2.29	0.41
11:G3:14:LYS:HG2	11:G3:124:LEU:CD1	2.50	0.41
11:G3:67:VAL:HG11	11:G3:99:GLY:HA2	2.03	0.41
13:M3:42:LEU:HD22	13:M3:110:VAL:HG22	2.03	0.41
15:O3:39:ASP:N	15:O3:69:SER:HB3	2.35	0.41
19:b3:19:HIS:CD2	21:i3:1129:G:H5'	2.55	0.41
21:i3:133:C:H5'	21:i3:134:C:H5'	2.01	0.41
21:i3:867:G:H4'	30:L3:149:ALA:CA	2.44	0.41
21:i3:1208:A:N1	21:i3:1209:A:C6	2.89	0.41
21:i3:1226:G:N1	21:i3:1639:G:OP2	2.51	0.41
21:i3:1377:U:O5'	22:A3:102:ARG:NE	2.50	0.41
22:A3:210:ILE:C	22:A3:212:LYS:H	2.28	0.41
24:D3:61:GLU:OE2	29:K3:73:ASN:ND2	2.53	0.41
26:F3:33:ILE:O	26:F3:35:LEU:N	2.52	0.41
28:I3:84:ASN:HD21	28:I3:90:LEU:HD12	1.85	0.41
30:L3:48:LYS:O	30:L3:52:GLU:HG2	2.20	0.41
31:P3:41:GLN:CD	31:P3:84:ILE:HG21	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R3:113:SER:OG	33:R3:114:LEU:N	2.53	0.41
1:T4:23:LYS:HD3	1:T4:54:TYR:CG	2.56	0.41
4:X4:85:VAL:HG12	4:X4:122:VAL:HG11	2.01	0.41
9:g4:32:LEU:HD23	9:g4:71:ILE:HD12	2.03	0.41
9:g4:254:PRO:HG3	9:g4:284:PRO:HD2	2.01	0.41
11:G4:37:ALA:HA	11:G4:49:VAL:HG12	2.02	0.41
12:J4:71:LEU:C	12:J4:74:GLY:H	2.29	0.41
16:W4:35:VAL:O	16:W4:39:THR:HG23	2.20	0.41
16:W4:88:LYS:NZ	21:i4:420:G:OP1	2.44	0.41
17:Y4:55:ILE:HG23	17:Y4:75:ILE:HG12	2.02	0.41
21:i4:502:C:O4'	25:E4:66:MET:HG3	2.21	0.41
21:i4:659:G:O2'	21:i4:662:G:O3'	2.38	0.41
21:i4:1206:G:N3	21:i4:1834:A:H1'	2.35	0.41
21:i4:1521:C:C5	34:S4:137:LYS:CB	3.03	0.41
23:B4:103:MET:O	23:B4:103:MET:HG3	2.19	0.41
23:B4:138:PHE:CD2	23:B4:214:LYS:HB3	2.56	0.41
23:B4:197:ILE:HD11	23:B4:210:VAL:HG11	2.02	0.41
26:F4:45:TYR:H	26:F4:46:ALA:CA	2.34	0.41
29:K4:59:LYS:O	29:K4:70:TYR:N	2.37	0.41
30:L4:153:LYS:O	30:L4:153:LYS:NZ	2.53	0.41
33:R4:69:ILE:H	33:R4:70:SER:HB3	1.85	0.41
7:d5:7:TYR:HE2	7:d5:9:SER:HB2	1.82	0.41
7:d5:40:ARG:HD2	21:i5:1256:G:C8	2.55	0.41
8:f5:133:ALA:O	8:f5:139:HIS:HA	2.20	0.41
9:g5:256:ILE:HD12	9:g5:270:LEU:HD13	2.02	0.41
11:G5:189:ARG:NH1	21:i5:329:G:C5	2.70	0.41
13:M5:27:ILE:HG21	29:K5:84:HIS:CG	2.55	0.41
14:N5:99:ARG:NH1	14:N5:143:SER:HA	2.35	0.41
14:N5:127:ARG:O	14:N5:131:THR:HG23	2.20	0.41
16:W5:111:MET:HG3	16:W5:112:ASP:H	1.84	0.41
21:i5:45:A:N6	21:i5:481:C:H4'	2.35	0.41
21:i5:1520:G:H5'	21:i5:1521:C:OP2	2.21	0.41
21:i5:1708:C:O2'	37:l5:151:LYS:CA	2.69	0.41
22:A5:210:ILE:C	22:A5:212:LYS:H	2.28	0.41
23:B5:138:PHE:CD2	23:B5:214:LYS:HB3	2.56	0.41
23:B5:197:ILE:HD11	23:B5:210:VAL:HG21	2.02	0.41
23:B5:197:ILE:HD11	23:B5:210:VAL:HG11	2.01	0.41
24:D5:140:GLY:HA3	24:D5:182:LEU:HB2	2.02	0.41
25:E5:47:PHE:HD2	25:E5:48:LEU:HD12	1.84	0.41
26:F5:49:LEU:HA	26:F5:50:PRO:HD3	1.84	0.41
30:L5:48:LYS:O	30:L5:52:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Q5:138:ARG:O	32:Q5:140:ARG:HG3	2.19	0.41
2:U6:21:ARG:HB3	2:U6:115:THR:HG21	2.02	0.41
4:X6:9:THR:OG1	4:X6:10:ALA:N	2.51	0.41
5:a6:107:ALA:HB1	5:a6:108:PRO:HA	2.02	0.41
8:f6:102:VAL:HG12	8:f6:102:VAL:O	2.20	0.41
9:g6:112:ALA:HB2	9:g6:154:VAL:HG23	2.01	0.41
11:G6:140:ARG:HD3	11:G6:140:ARG:HA	1.69	0.41
11:G6:146:ASN:O	11:G6:147:LEU:HB3	2.20	0.41
14:N6:25:TRP:HH2	19:b6:84:HIS:CE1	2.36	0.41
14:N6:125:LEU:O	14:N6:128:TYR:HB3	2.20	0.41
21:i6:345:U:H1'	25:E6:33:THR:HG23	2.01	0.41
21:i6:609:U:O2	21:i6:635:G:N2	2.53	0.41
21:i6:659:G:O2'	21:i6:662:G:O3'	2.38	0.41
21:i6:750:C:N4	21:i6:794:A:H1'	2.35	0.41
21:i6:1036:A:C2	21:i6:1844:U:H4'	2.56	0.41
21:i6:1610:G:OP2	34:S6:132:ARG:NE	2.46	0.41
22:A6:152:SER:HA	22:A6:153:PRO:HD2	1.91	0.41
22:A6:210:ILE:C	22:A6:212:LYS:H	2.29	0.41
24:D6:154:ASP:OD1	24:D6:155:GLY:N	2.53	0.41
26:F6:36:GLN:C	26:F6:38:TYR:H	2.28	0.41
29:K6:32:HIS:ND1	29:K6:33:PRO:HD2	2.35	0.41
31:P6:115:TYR:CD2	31:P6:115:TYR:N	2.73	0.41
36:k1:9:GLU:C	36:k1:56:HIS:CE1	2.97	0.41
36:k1:86:HIS:NE2	36:k1:141:HIS:C	2.79	0.41
36:k2:86:HIS:CD2	36:k2:142:ALA:N	2.88	0.41
36:k2:91:ILE:O	36:k2:92:LEU:CG	2.61	0.41
36:k2:143:LEU:O	36:k2:169:TYR:CA	2.68	0.41
37:l1:181:LYS:HB2	37:l1:184:GLU:CD	2.45	0.41
37:l3:136:THR:CG2	37:l3:137:PHE:CA	2.98	0.41
37:l5:136:THR:CG2	37:l5:137:PHE:CA	2.98	0.41
37:l5:164:ILE:O	37:l5:165:ILE:CD1	2.53	0.41
4:X1:9:THR:OG1	4:X1:10:ALA:N	2.51	0.41
9:g1:172:LYS:HB3	9:g1:191:HIS:HB3	2.03	0.41
11:G1:145:PHE:CD1	11:G1:145:PHE:O	2.74	0.41
12:J1:136:ARG:HD3	12:J1:160:SER:HA	2.01	0.41
14:N1:114:ARG:O	14:N1:118:ILE:HG13	2.21	0.41
17:Y1:20:ARG:HB3	17:Y1:76:TYR:CD1	2.55	0.41
17:Y1:55:ILE:HG23	17:Y1:75:ILE:HG12	2.02	0.41
20:e1:32:ALA:HB2	21:i1:525:A:H5''	2.01	0.41
21:i1:30:C:O2'	21:i1:596:U:OP1	2.24	0.41
21:i1:455:A:O4'	21:i1:1736:G:H4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:517:C:H2'	21:i1:518:G:O4'	2.20	0.41
21:i1:609:U:O2	21:i1:635:G:N2	2.54	0.41
21:i1:691:G:O4'	21:i1:691:G:P	2.79	0.41
21:i1:1142:G:H2'	21:i1:1144:A:OP2	2.19	0.41
21:i1:1217:A:H2'	21:i1:1218:C:H6	1.85	0.41
21:i1:1592:C:H2'	21:i1:1593:C:C6	2.56	0.41
21:i1:1673:U:H2'	21:i1:1674:G:O4'	2.20	0.41
21:i1:1719:A:P	35:j1:24:SER:OG	2.75	0.41
26:F1:137:GLN:O	26:F1:138:ALA:CB	2.63	0.41
27:H1:6:ALA:O	27:H1:24:SER:OG	2.26	0.41
27:H1:15:LYS:H	27:H1:16:PRO:HD2	1.85	0.41
27:H1:68:GLN:N	27:H1:68:GLN:OE1	2.54	0.41
34:S1:40:TYR:HE1	34:S1:79:ILE:HG21	1.85	0.41
7:d2:40:ARG:HD2	21:i2:1256:G:C8	2.55	0.41
9:g2:147:HIS:HB2	9:g2:149:GLU:O	2.20	0.41
12:J2:122:SER:OG	21:i2:527:C:OP1	2.37	0.41
14:N2:133:ARG:CG	30:L2:152:LYS:HE2	2.51	0.41
15:O2:39:ASP:N	15:O2:69:SER:HB3	2.35	0.41
19:b2:19:HIS:CD2	21:i2:1129:G:H5'	2.55	0.41
21:i2:609:U:O2	21:i2:635:G:N2	2.53	0.41
21:i2:1753:C:H6	21:i2:1753:C:H3'	1.86	0.41
22:A2:77:ILE:HA	22:A2:99:ILE:O	2.19	0.41
24:D2:162:ASP:N	24:D2:163:PRO:HD2	2.36	0.41
26:F2:96:ALA:HA	26:F2:99:ILE:HG22	2.01	0.41
28:I2:178:ARG:O	28:I2:178:ARG:HG3	2.21	0.41
33:R2:6:THR:HG22	33:R2:8:THR:H	1.86	0.41
8:f3:80:ARG:NH1	21:i3:1509:U:C5	2.88	0.41
8:f3:131:PHE:O	21:i3:1310:U:P	2.78	0.41
14:N3:71:ILE:HD12	14:N3:71:ILE:H	1.85	0.41
14:N3:101:HIS:NE2	14:N3:105:ASN:ND2	2.69	0.41
14:N3:125:LEU:O	14:N3:128:TYR:HB3	2.20	0.41
16:W3:42:MET:HE1	27:H3:146:VAL:HG11	2.02	0.41
16:W3:111:MET:HB2	16:W3:115:GLU:CG	2.50	0.41
17:Y3:125:VAL:HG12	17:Y3:129:LYS:NZ	2.36	0.41
21:i3:303:C:H5''	28:I3:75:LYS:HD3	2.01	0.41
21:i3:312:G:C5'	21:i3:313:A:H5'	2.49	0.41
21:i3:750:C:N4	21:i3:794:A:H1'	2.35	0.41
21:i3:950:C:H2'	21:i3:951:C:O4'	2.21	0.41
21:i3:1173:A:H2'	21:i3:1174:U:O4'	2.21	0.41
21:i3:1290:G:N2	21:i3:1310:U:O2	2.53	0.41
21:i3:1748:G:C6	21:i3:1749:G:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A3:184:ARG:HB3	22:A3:191:ARG:HH21	1.85	0.41
23:B3:71:LEU:HB2	23:B3:82:ARG:HB2	2.02	0.41
28:I3:207:GLY:N	36:k1:12:SER:OG	2.53	0.41
31:P3:49:LEU:HD23	31:P3:49:LEU:HA	1.78	0.41
32:Q3:3:SER:O	32:Q3:4:LYS:HB3	2.20	0.41
32:Q3:138:ARG:O	32:Q3:140:ARG:HG3	2.19	0.41
33:R3:6:THR:HG22	33:R3:8:THR:H	1.86	0.41
1:T4:133:ARG:HH22	21:i4:1421:A:P	2.43	0.41
3:V4:36:VAL:O	22:A4:67:ALA:HB2	2.20	0.41
3:V4:55:ILE:HD11	3:V4:69:ILE:HD11	2.03	0.41
5:a4:97:PRO:CB	21:i4:1868:U:H3	2.33	0.41
16:W4:119:LYS:HE2	21:i4:735:C:O2'	2.20	0.41
19:b4:21:LYS:C	19:b4:23:ARG:N	2.77	0.41
21:i4:555:A:N7	21:i4:557:U:H5	2.17	0.41
21:i4:1137:U:O2'	21:i4:1138:C:OP1	2.29	0.41
21:i4:1223:A:H2'	21:i4:1224:G:O4'	2.19	0.41
21:i4:1412:C:H5'	21:i4:1413:G:OP1	2.20	0.41
21:i4:1818:A:O2'	35:j4:17:ARG:NH1	2.53	0.41
23:B4:81:PHE:O	23:B4:105:LEU:HD12	2.20	0.41
24:D4:162:ASP:N	24:D4:163:PRO:HD2	2.36	0.41
26:F4:35:LEU:HD12	26:F4:117:ILE:HD13	2.02	0.41
26:F4:157:GLY:HA2	26:F4:160:GLU:OE2	2.20	0.41
27:H4:18:GLU:HG2	27:H4:19:PHE:N	2.35	0.41
30:L4:68:ILE:HA	30:L4:130:GLU:O	2.20	0.41
31:P4:64:LYS:HA	31:P4:73:PRO:HB3	2.01	0.41
33:R4:119:VAL:HA	33:R4:120:THR:HA	1.72	0.41
2:U5:28:ASN:ND2	2:U5:30:LYS:HB3	2.34	0.41
10:C5:127:PHE:HA	10:C5:140:GLY:O	2.20	0.41
10:C5:246:LYS:O	10:C5:249:SER:OG	2.31	0.41
12:J5:94:LEU:HA	12:J5:97:ILE:HD12	2.02	0.41
13:M5:106:CYS:SG	21:i5:1284:A:C6	3.10	0.41
14:N5:25:TRP:C	14:N5:27:LYS:H	2.29	0.41
15:O5:39:ASP:N	15:O5:69:SER:HB3	2.35	0.41
15:O5:65:ASP:O	15:O5:68:GLU:HB2	2.20	0.41
16:W5:32:LYS:HA	16:W5:35:VAL:HG22	2.02	0.41
19:b5:67:THR:OG1	19:b5:68:GLY:N	2.51	0.41
22:A5:3:GLY:HA2	22:A5:63:ARG:NH2	2.35	0.41
22:A5:70:ASN:HA	22:A5:71:PRO:HD2	1.88	0.41
26:F5:96:ALA:O	26:F5:99:ILE:HG22	2.21	0.41
34:S5:40:TYR:HE1	34:S5:79:ILE:HG21	1.85	0.41
3:V6:36:VAL:HG12	3:V6:37:ALA:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a6:99:PRO:HB3	21:i6:1868:U:C4	2.55	0.41
8:f6:133:ALA:O	8:f6:139:HIS:HA	2.20	0.41
9:g6:133:ASN:HB3	9:g6:135:LEU:HG	2.03	0.41
9:g6:168:CYS:SG	9:g6:169:GLY:N	2.87	0.41
9:g6:254:PRO:HG3	9:g6:284:PRO:HD2	2.01	0.41
10:C6:107:LEU:HB2	10:C6:127:PHE:HB2	2.02	0.41
17:Y6:10:ARG:HB2	21:i6:833:C:H41	1.83	0.41
17:Y6:21:LYS:HE2	17:Y6:23:MET:HE1	2.03	0.41
17:Y6:40:ILE:O	17:Y6:44:LEU:HD13	2.21	0.41
17:Y6:55:ILE:HG23	17:Y6:75:ILE:HG12	2.02	0.41
19:b6:34:ASP:OD1	19:b6:35:VAL:N	2.53	0.41
21:i6:54:A:H3'	21:i6:451:G:H22	1.85	0.41
21:i6:312:G:C5'	21:i6:313:A:H5'	2.49	0.41
21:i6:502:C:O4'	25:E6:66:MET:HG3	2.20	0.41
21:i6:1673:U:H2'	21:i6:1674:G:O4'	2.20	0.41
21:i6:1755:C:H1'	21:i6:1777:G:N2	2.33	0.41
21:i6:1832:A:H8	21:i6:1832:A:O5'	2.02	0.41
24:D6:71:ALA:HB1	29:K6:20:VAL:HG21	2.02	0.41
24:D6:140:GLY:HA3	24:D6:182:LEU:HB2	2.02	0.41
25:E6:36:HIS:HD1	25:E6:41:CYS:HB3	1.85	0.41
25:E6:238:LEU:CD1	25:E6:242:LYS:HG2	2.50	0.41
27:H6:163:GLN:HG2	27:H6:189:PHE:CZ	2.55	0.41
28:I6:142:SER:HA	28:I6:146:GLN:HG2	2.01	0.41
36:k1:11:VAL:HG21	36:k1:177:MET:CE	2.51	0.41
36:k1:86:HIS:CB	36:k1:141:HIS:CD2	2.59	0.41
36:k3:80:PRO:O	36:k3:145:VAL:HG21	2.20	0.41
36:k5:1:MET:HE3	36:k5:1:MET:HB2	1.78	0.41
37:l2:136:THR:CG2	37:l2:137:PHE:CA	2.98	0.41
37:l2:139:ILE:HG22	37:l2:140:ASP:H	1.83	0.41
37:l2:151:LYS:O	37:l2:152:PHE:CG	2.73	0.41
11:G1:10:THR:OG1	11:G1:128:THR:HG21	2.19	0.41
11:G1:141:ILE:C	11:G1:144:LEU:CD2	2.94	0.41
11:G1:146:ASN:HD22	11:G1:146:ASN:HA	1.59	0.41
11:G1:149:LYS:NZ	11:G1:149:LYS:CB	2.75	0.41
11:G1:186:GLN:HA	21:i1:331:C:H41	1.86	0.41
12:J1:9:CYS:HB3	21:i1:519:A:O2'	2.19	0.41
12:J1:71:LEU:C	12:J1:74:GLY:H	2.29	0.41
15:O1:38:ASN:C	15:O1:69:SER:HB3	2.45	0.41
16:W1:30:CYS:HB3	16:W1:59:GLY:H	1.85	0.41
19:b1:36:LYS:HE2	19:b1:80:ARG:HD2	2.01	0.41
21:i1:317:C:O5'	21:i1:317:C:H6	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:422:U:O2'	21:i1:652:U:H5''	2.21	0.41
21:i1:1223:A:H2'	21:i1:1224:G:O4'	2.19	0.41
21:i1:1740:C:H2'	21:i1:1741:U:C6	2.56	0.41
21:i1:1743:G:C6	21:i1:1744:G:N1	2.87	0.41
21:i1:1753:C:C6	21:i1:1753:C:C3'	3.04	0.41
22:A1:130:ASP:O	22:A1:133:PRO:HD2	2.21	0.41
23:B1:81:PHE:O	23:B1:105:LEU:HD12	2.20	0.41
24:D1:34:TYR:HA	24:D1:52:ALA:HB1	2.03	0.41
24:D1:137:VAL:HG22	24:D1:151:LYS:HG2	2.02	0.41
3:V2:36:VAL:O	22:A2:67:ALA:HB2	2.20	0.41
4:X2:55:VAL:HG23	20:e2:2:VAL:CG1	2.39	0.41
10:C2:183:LYS:HE3	16:W2:95:PRO:HA	2.03	0.41
18:Z2:82:SER:HB2	21:i2:1598:G:H8	1.85	0.41
21:i2:422:U:O2'	21:i2:652:U:H5''	2.21	0.41
21:i2:730:C:OP2	21:i2:730:C:H4'	2.20	0.41
21:i2:745:C:H4'	27:H2:107:LYS:HB3	2.02	0.41
21:i2:1175:G:P	35:j2:21:ARG:HH12	2.43	0.41
21:i2:1217:A:O2'	21:i2:1684:C:N3	2.51	0.41
21:i2:1537:A:H2'	21:i2:1538:C:O4'	2.20	0.41
21:i2:1592:C:H4'	32:Q2:44:PRO:HB2	2.02	0.41
21:i2:1609:C:OP2	34:S2:134:GLN:NE2	2.53	0.41
24:D2:154:ASP:OD1	24:D2:155:GLY:N	2.53	0.41
26:F2:36:GLN:C	26:F2:38:TYR:H	2.29	0.41
28:I2:84:ASN:HD21	28:I2:90:LEU:HD12	1.85	0.41
28:I2:197:PHE:O	28:I2:200:ARG:HB3	2.21	0.41
33:R2:7:LYS:NZ	33:R2:11:LYS:HD2	2.35	0.41
1:T3:23:LYS:HD3	1:T3:54:TYR:CG	2.56	0.41
2:U3:20:ILE:CD1	2:U3:116:ILE:O	2.69	0.41
2:U3:56:MET:HE1	21:i3:1580:A:C8	2.55	0.41
4:X3:85:VAL:HG12	4:X3:122:VAL:HG11	2.01	0.41
6:c3:59:LEU:HD21	26:F3:122:ARG:HE	1.85	0.41
8:f3:102:VAL:HG12	8:f3:102:VAL:O	2.20	0.41
9:g3:105:THR:OG1	9:g3:106:LYS:N	2.54	0.41
9:g3:133:ASN:HB3	9:g3:135:LEU:HG	2.03	0.41
10:C3:73:MET:O	10:C3:73:MET:HG3	2.20	0.41
10:C3:127:PHE:HA	10:C3:140:GLY:O	2.20	0.41
11:G3:153:VAL:C	11:G3:155:GLN:H	2.28	0.41
14:N3:81:ALA:HA	14:N3:82:PRO:HD3	1.94	0.41
15:O3:65:ASP:O	15:O3:68:GLU:HB2	2.20	0.41
17:Y3:40:ILE:O	17:Y3:44:LEU:HD13	2.21	0.41
21:i3:378:U:H5'	28:I3:97:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i3:468:A:H2'	21:i3:469:A:O4'	2.21	0.41
21:i3:643:A:H4'	21:i3:644:G:H5'	2.03	0.41
21:i3:970:G:H5'	28:I6:200:ARG:NH2	2.34	0.41
21:i3:1208:A:C6	21:i3:1209:A:N6	2.88	0.41
21:i3:1375:G:H2'	21:i3:1376:A:C8	2.55	0.41
21:i3:1520:G:H5'	21:i3:1521:C:OP2	2.21	0.41
21:i3:1772:C:H5''	21:i3:1773:C:OP2	2.21	0.41
22:A3:201:LEU:HA	33:R3:85:VAL:HG11	2.03	0.41
25:E3:14:ALA:HA	25:E3:15:PRO:HD3	1.87	0.41
26:F3:45:TYR:H	26:F3:46:ALA:CA	2.34	0.41
27:H3:163:GLN:HG2	27:H3:189:PHE:CZ	2.55	0.41
31:P3:45:LEU:HD12	31:P3:45:LEU:HA	1.83	0.41
34:S3:40:TYR:HE1	34:S3:79:ILE:HG21	1.85	0.41
2:U4:61:LEU:H	2:U4:81:GLN:HE22	1.67	0.41
4:X4:85:VAL:HA	4:X4:86:PRO:HD2	1.88	0.41
5:a4:100:ARG:HD2	5:a4:101:PHE:N	2.36	0.41
10:C4:65:LYS:CG	10:C4:279:ARG:NE	2.74	0.41
12:J4:64:ASP:HB3	16:W4:117:ARG:NH2	2.36	0.41
12:J4:136:ARG:HD3	12:J4:160:SER:HA	2.01	0.41
14:N4:71:ILE:H	14:N4:71:ILE:HD12	1.85	0.41
17:Y4:90:ARG:HA	17:Y4:93:ARG:HG2	2.02	0.41
21:i4:378:U:C4	21:i4:379:C:C4	3.08	0.41
21:i4:493:A:N1	21:i4:510:G:O2'	2.51	0.41
21:i4:1083:A:N7	21:i4:1841:C:O2'	2.52	0.41
21:i4:1334:G:H4'	24:D4:183:GLY:H	1.86	0.41
21:i4:1740:C:H2'	21:i4:1741:U:C6	2.56	0.41
22:A4:210:ILE:C	22:A4:212:LYS:H	2.29	0.41
24:D4:25:LEU:HD23	24:D4:37:VAL:HG11	2.02	0.41
27:H4:15:LYS:H	27:H4:16:PRO:HD2	1.85	0.41
28:I4:90:LEU:HD13	28:I4:97:VAL:HG21	2.02	0.41
29:K4:19:GLY:N	29:K4:92:ALA:HB2	2.32	0.41
33:R4:7:LYS:NZ	33:R4:11:LYS:HD2	2.35	0.41
34:S4:31:THR:HG23	34:S4:37:GLY:HA2	2.01	0.41
1:T5:23:LYS:HD3	1:T5:54:TYR:CG	2.56	0.41
8:f5:102:VAL:HG21	13:M5:36:ARG:HB2	2.03	0.41
9:g5:164:ILE:HG23	9:g5:178:ASN:HA	2.01	0.41
10:C5:107:LEU:HB2	10:C5:127:PHE:HB2	2.02	0.41
11:G5:139:SER:O	11:G5:142:ARG:HB2	2.21	0.41
11:G5:160:LYS:H	11:G5:172:LYS:HG2	1.85	0.41
14:N5:101:HIS:NE2	14:N5:105:ASN:ND2	2.69	0.41
17:Y5:33:ALA:HB2	21:i5:582:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y5:55:ILE:HG23	17:Y5:75:ILE:HG12	2.02	0.41
21:i5:736:C:H6	21:i5:736:C:H5''	1.86	0.41
21:i5:750:C:N4	21:i5:794:A:H1'	2.35	0.41
21:i5:1206:G:N3	21:i5:1834:A:H1'	2.36	0.41
21:i5:1349:G:H1	21:i5:1380:C:N4	2.18	0.41
21:i5:1375:G:H2'	21:i5:1376:A:C8	2.55	0.41
21:i5:1592:C:H2'	21:i5:1593:C:C6	2.56	0.41
22:A5:152:SER:HA	22:A5:153:PRO:HD2	1.91	0.41
24:D5:137:VAL:HG22	24:D5:151:LYS:HG2	2.02	0.41
28:I5:107:THR:OG1	28:I5:108:PRO:HD3	2.19	0.41
2:U6:20:ILE:CD1	2:U6:116:ILE:O	2.68	0.41
11:G6:37:ALA:HA	11:G6:49:VAL:HG12	2.01	0.41
14:N6:143:SER:OG	14:N6:144:SER:N	2.53	0.41
21:i6:7:G:H1	21:i6:17:C:H42	1.68	0.41
21:i6:45:A:N6	21:i6:481:C:H4'	2.35	0.41
21:i6:76:U:O2'	21:i6:78:C:OP2	2.25	0.41
21:i6:115:U:H2'	21:i6:116:U:C6	2.55	0.41
21:i6:422:U:O2'	21:i6:652:U:H5''	2.21	0.41
21:i6:604:A:N3	21:i6:639:C:O2'	2.50	0.41
21:i6:689:U:C4	21:i6:690:G:H1'	2.55	0.41
21:i6:958:G:H2'	21:i6:958:G:N3	2.34	0.41
21:i6:1015:U:O2'	21:i6:1017:U:OP2	2.33	0.41
21:i6:1290:G:N2	21:i6:1310:U:O2	2.54	0.41
21:i6:1843:G:H5'	35:j6:7:LYS:NZ	2.36	0.41
22:A6:123:VAL:HG12	22:A6:145:ILE:CG1	2.51	0.41
25:E6:47:PHE:HD2	25:E6:48:LEU:HD12	1.84	0.41
36:k1:1:MET:HE3	36:k1:1:MET:HB2	1.78	0.41
36:k2:108:GLY:C	36:k2:166:ASN:OD1	2.62	0.41
36:k3:169:TYR:O	36:k3:172:ASP:OD2	2.38	0.41
37:l2:136:THR:HG22	37:l2:137:PHE:HB3	2.01	0.41
37:l5:181:LYS:HB2	37:l5:184:GLU:CD	2.45	0.41
1:T1:133:ARG:NH2	21:i1:1420:G:O3'	2.52	0.41
2:U1:21:ARG:HB3	2:U1:115:THR:HG21	2.02	0.41
4:X1:107:ARG:NH1	4:X1:110:HIS:HD2	2.19	0.41
8:f1:102:VAL:HG21	13:M1:36:ARG:HB2	2.03	0.41
10:C1:68:ARG:CD	10:C1:277:HIS:HB2	2.49	0.41
14:N1:25:TRP:C	14:N1:27:LYS:H	2.29	0.41
17:Y1:58:PHE:O	17:Y1:72:PHE:N	2.32	0.41
21:i1:177:G:H2'	21:i1:313:A:H62	1.86	0.41
21:i1:588:G:H21	21:i1:589:G:H1	1.67	0.41
21:i1:1144:A:H5'	21:i1:1355:C:C5	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:1412:C:H5'	21:i1:1413:G:OP1	2.20	0.41
21:i1:1553:C:H4'	21:i1:1554:C:C5	2.55	0.41
25:E1:201:HIS:O	25:E1:204:SER:N	2.46	0.41
26:F1:35:LEU:HD12	26:F1:117:ILE:HD13	2.02	0.41
28:I1:90:LEU:HD13	28:I1:97:VAL:HG21	2.02	0.41
30:L1:27:GLU:O	30:L1:30:LYS:HG3	2.21	0.41
30:L1:85:THR:HG1	30:L1:111:VAL:C	2.29	0.41
32:Q1:13:PHE:HA	32:Q1:21:ALA:O	2.19	0.41
34:S1:4:VAL:CG2	34:S1:58:GLU:CD	2.74	0.41
2:U2:20:ILE:CD1	2:U2:116:ILE:O	2.68	0.41
2:U2:49:LYS:O	2:U2:50:VAL:HG12	2.21	0.41
4:X2:85:VAL:HA	4:X2:86:PRO:HD2	1.88	0.41
6:c2:22:GLY:HA3	6:c2:27:CYS:SG	2.61	0.41
6:c2:66:ARG:O	6:c2:67:ARG:C	2.63	0.41
9:g2:105:THR:OG1	9:g2:106:LYS:N	2.54	0.41
9:g2:185:LYS:CG	24:D2:226:GLN:HE21	2.33	0.41
12:J2:71:LEU:C	12:J2:74:GLY:H	2.29	0.41
13:M2:42:LEU:HD22	13:M2:110:VAL:HG22	2.03	0.41
15:O2:75:MET:O	15:O2:79:GLN:HG2	2.21	0.41
17:Y2:21:LYS:HE2	17:Y2:23:MET:HE1	2.03	0.41
21:i2:12:U:O4'	21:i2:1357:A:O4'	2.39	0.41
21:i2:737:G:OP2	21:i2:738:C:H1'	2.20	0.41
21:i2:1207:G:H5''	21:i2:1208:A:O5'	2.20	0.41
21:i2:1217:A:H2'	21:i2:1218:C:H6	1.85	0.41
21:i2:1521:C:N3	34:S2:137:LYS:HG3	2.35	0.41
21:i2:1522:A:N6	31:P2:131:PRO:CA	2.84	0.41
21:i2:1584:G:O4'	21:i2:1586:U:H4'	2.21	0.41
24:D2:99:ILE:O	24:D2:103:GLU:HG2	2.21	0.41
25:E2:103:TYR:HB3	25:E2:107:GLY:HA2	2.00	0.41
26:F2:96:ALA:O	26:F2:99:ILE:HG22	2.21	0.41
27:H2:163:GLN:HG2	27:H2:189:PHE:CZ	2.55	0.41
28:I2:177:SER:HB2	28:I2:186:ASP:HB2	2.02	0.41
29:K2:16:PHE:CE2	29:K2:85:LEU:HD13	2.55	0.41
33:R2:21:TYR:HE2	33:R2:72:LYS:NZ	2.18	0.41
2:U3:61:LEU:HD21	24:D3:8:LYS:HG3	2.02	0.41
8:f3:97:LYS:HG2	21:i3:1288:U:OP2	2.18	0.41
9:g3:152:SER:HB2	9:g3:168:CYS:SG	2.60	0.41
9:g3:218:LEU:HB3	9:g3:227:LEU:HD12	2.01	0.41
10:C3:125:LYS:HE3	21:i3:1357:A:OP1	2.20	0.41
10:C3:189:GLY:O	10:C3:191:VAL:N	2.48	0.41
13:M3:27:ILE:HG21	29:K3:84:HIS:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:16:LEU:HD22	21:i3:919:A:H5'	2.02	0.41
17:Y3:22:GLN:NE2	25:E3:56:LEU:HD12	2.31	0.41
21:i3:306:C:H5'	21:i3:309:G:OP2	2.20	0.41
21:i3:332:G:C8	21:i3:332:G:O5'	2.74	0.41
21:i3:422:U:O2'	21:i3:652:U:H5''	2.21	0.41
21:i3:733:C:N4	27:H3:149:ASP:OD2	2.47	0.41
21:i3:1215:C:O2'	21:i3:1645:C:OP2	2.37	0.41
21:i3:1217:A:H2'	21:i3:1218:C:H6	1.85	0.41
21:i3:1245:G:O2'	21:i3:1492:U:OP1	2.33	0.41
24:D3:162:ASP:N	24:D3:163:PRO:HD2	2.36	0.41
25:E3:47:PHE:HD2	25:E3:48:LEU:HD12	1.85	0.41
28:I3:178:ARG:O	28:I3:178:ARG:HG3	2.21	0.41
29:K3:16:PHE:CE2	29:K3:85:LEU:HD13	2.56	0.41
1:T4:89:PRO:HD2	21:i4:1665:G:H5''	2.03	0.41
2:U4:20:ILE:CD1	2:U4:116:ILE:O	2.68	0.41
3:V4:28:ASP:OD2	3:V4:31:SER:HB3	2.20	0.41
5:a4:107:ALA:HB1	5:a4:108:PRO:HA	2.02	0.41
8:f4:131:PHE:O	21:i4:1310:U:P	2.78	0.41
9:g4:172:LYS:HB3	9:g4:191:HIS:HB3	2.02	0.41
9:g4:227:LEU:HB3	9:g4:228:TYR:H	1.73	0.41
11:G4:67:VAL:HG11	11:G4:99:GLY:HA2	2.02	0.41
11:G4:145:PHE:CD1	11:G4:145:PHE:O	2.74	0.41
13:M4:38:ALA:HB1	13:M4:110:VAL:HG23	2.03	0.41
20:e4:11:LYS:N	21:i4:616:A:O2'	2.53	0.41
20:e4:46:VAL:HG22	20:e4:46:VAL:O	2.20	0.41
21:i4:177:G:H2'	21:i4:313:A:H62	1.86	0.41
21:i4:213:G:C2	21:i4:214:U:N3	2.88	0.41
21:i4:1349:G:H1	21:i4:1380:C:N4	2.18	0.41
21:i4:1752:C:H3'	21:i4:1752:C:H6	1.86	0.41
26:F4:107:ASN:HA	26:F4:108:PRO:HD2	1.71	0.41
30:L4:37:TYR:CD2	30:L4:51:ILE:HG12	2.56	0.41
31:P4:121:ILE:CG2	31:P4:122:THR:H	2.34	0.41
32:Q4:138:ARG:O	32:Q4:140:ARG:HG3	2.19	0.41
1:T5:89:PRO:HD2	21:i5:1665:G:H5''	2.03	0.41
5:a5:107:ALA:HB1	5:a5:108:PRO:HA	2.02	0.41
8:f5:96:LYS:CB	21:i5:1307:U:H5	2.21	0.41
8:f5:131:PHE:O	21:i5:1310:U:P	2.78	0.41
9:g5:72:SER:OG	9:g5:115:SER:HA	2.20	0.41
9:g5:256:ILE:HD12	9:g5:270:LEU:HD22	2.03	0.41
10:C5:256:TRP:HB3	16:W5:68:ARG:NH1	2.36	0.41
11:G5:191:ARG:NH2	21:i5:314:U:C5	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:G5:220:ALA:O	11:G5:224:ARG:N	2.53	0.41
21:i5:481:C:H5''	21:i5:482:G:OP2	2.21	0.41
27:H5:68:GLN:N	27:H5:68:GLN:OE1	2.54	0.41
27:H5:145:ARG:HH11	27:H5:153:LEU:HD12	1.85	0.41
29:K5:89:ILE:O	29:K5:91:PRO:HD3	2.19	0.41
31:P5:36:LEU:HD23	31:P5:36:LEU:HA	1.85	0.41
31:P5:85:ILE:O	31:P5:112:ILE:O	2.38	0.41
33:R5:6:THR:HG22	33:R5:8:THR:H	1.85	0.41
1:T6:23:LYS:HD3	1:T6:54:TYR:CG	2.56	0.41
4:X6:60:LYS:HG2	4:X6:114:ASP:O	2.20	0.41
4:X6:85:VAL:HA	4:X6:86:PRO:HD2	1.88	0.41
5:a6:90:GLU:OE1	5:a6:90:GLU:N	2.51	0.41
6:c6:6:VAL:HG13	6:c6:8:PRO:HD3	2.02	0.41
9:g6:68:ASP:O	9:g6:81:GLY:N	2.29	0.41
11:G6:145:PHE:O	11:G6:145:PHE:CD1	2.74	0.41
11:G6:146:ASN:HD22	11:G6:146:ASN:HA	1.59	0.41
16:W6:35:VAL:O	16:W6:39:THR:HG23	2.20	0.41
21:i6:141:A:N3	21:i6:143:U:H1'	2.36	0.41
21:i6:523:A:C2'	21:i6:524:U:H5'	2.51	0.41
22:A6:184:ARG:HB3	22:A6:191:ARG:HH21	1.85	0.41
22:A6:201:LEU:N	33:R6:85:VAL:HG11	2.36	0.41
23:B6:71:LEU:HB2	23:B6:82:ARG:HB2	2.03	0.41
23:B6:167:LYS:NZ	23:B6:200:ALA:O	2.54	0.41
36:k1:10:ASN:O	36:k1:55:CYS:HB3	2.20	0.41
36:k2:140:GLN:CG	36:k2:141:HIS:ND1	2.80	0.41
36:k3:1:MET:HE3	36:k3:1:MET:HB2	1.78	0.41
36:k4:170:LEU:O	36:k4:172:ASP:N	2.54	0.41
36:k6:51:LYS:HB2	36:k6:63:THR:HG23	2.02	0.41
37:l4:182:TRP:CE3	37:l4:183:PRO:HB3	2.46	0.41
37:l5:187:ASP:HB3	37:l5:188:ASP:H	1.59	0.41
4:X1:85:VAL:HG12	4:X1:122:VAL:HG11	2.02	0.41
10:C1:73:MET:O	10:C1:73:MET:HG3	2.20	0.41
11:G1:65:GLN:HE22	21:i1:1746:U:C2'	2.33	0.41
13:M1:85:LEU:HB3	13:M1:106:CYS:O	2.21	0.41
14:N1:118:ILE:HA	14:N1:121:ARG:NH2	2.36	0.41
14:N1:123:HIS:O	14:N1:127:ARG:NH1	2.54	0.41
15:O1:14:VAL:N	15:O1:15:ILE:HA	2.25	0.41
15:O1:45:THR:HG22	15:O1:52:THR:HG22	2.03	0.41
15:O1:75:MET:O	15:O1:79:GLN:HG2	2.21	0.41
17:Y1:33:ALA:HB2	21:i1:582:C:O4'	2.21	0.41
20:e1:51:LYS:O	20:e1:52:LYS:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i1:303:C:H1'	28:I1:184:ARG:NH2	2.36	0.41
21:i1:534:G:H2'	21:i1:535:G:H8	1.85	0.41
21:i1:1245:G:O2'	21:i1:1492:U:OP1	2.33	0.41
21:i1:1290:G:N2	21:i1:1310:U:O2	2.53	0.41
21:i1:1375:G:H2'	21:i1:1376:A:C8	2.55	0.41
21:i1:1522:A:N6	31:P1:131:PRO:CA	2.84	0.41
21:i1:1535:U:O2'	26:F1:88:MET:HE2	2.20	0.41
21:i1:1584:G:O4'	21:i1:1586:U:H4'	2.21	0.41
21:i1:1841:C:O5'	35:j1:2:ARG:CD	2.69	0.41
22:A1:201:LEU:N	33:R1:85:VAL:HG11	2.36	0.41
24:D1:71:ALA:HB1	29:K1:20:VAL:HG21	2.02	0.41
24:D1:99:ILE:O	24:D1:103:GLU:HG2	2.21	0.41
24:D1:105:LEU:HD23	24:D1:184:ILE:HD12	2.01	0.41
24:D1:140:GLY:HA3	24:D1:182:LEU:HB2	2.02	0.41
24:D1:162:ASP:N	24:D1:163:PRO:HD2	2.35	0.41
1:T2:133:ARG:NH2	21:i2:1420:G:O3'	2.52	0.41
4:X2:54:LYS:CG	20:e2:6:LEU:HD11	2.45	0.41
5:a2:2:THR:OG1	21:i2:1199:A:OP1	2.19	0.41
9:g2:133:ASN:HB3	9:g2:135:LEU:HG	2.03	0.41
9:g2:172:LYS:HB3	9:g2:191:HIS:HB3	2.03	0.41
9:g2:256:ILE:HD12	9:g2:270:LEU:HD22	2.03	0.41
11:G2:231:ARG:HA	11:G2:234:LEU:HD12	2.02	0.41
12:J2:136:ARG:HB3	12:J2:141:VAL:HG12	2.03	0.41
14:N2:99:ARG:NH1	14:N2:143:SER:HA	2.35	0.41
17:Y2:17:LEU:HD22	25:E2:69:PHE:CE1	2.50	0.41
17:Y2:55:ILE:HG23	17:Y2:75:ILE:HG12	2.02	0.41
21:i2:318:A:N1	21:i2:333:G:N2	2.59	0.41
21:i2:958:G:C6	21:i2:959:G:N1	2.89	0.41
21:i2:1412:C:H5'	21:i2:1413:G:OP1	2.20	0.41
22:A2:123:VAL:HG12	22:A2:145:ILE:CG1	2.50	0.41
29:K2:31:LYS:HG2	29:K2:32:HIS:O	2.21	0.41
29:K2:32:HIS:ND1	29:K2:33:PRO:HD2	2.35	0.41
30:L2:85:THR:HG1	30:L2:111:VAL:C	2.29	0.41
3:V3:36:VAL:O	22:A3:67:ALA:HB2	2.20	0.41
10:C3:256:TRP:HB3	16:W3:68:ARG:NH1	2.36	0.41
12:J3:71:LEU:C	12:J3:74:GLY:H	2.29	0.41
14:N3:114:ARG:O	14:N3:118:ILE:HG13	2.21	0.41
14:N3:123:HIS:O	14:N3:127:ARG:NH1	2.54	0.41
14:N3:133:ARG:NH1	30:L3:153:LYS:HA	2.35	0.41
16:W3:35:VAL:O	16:W3:39:THR:HG23	2.20	0.41
17:Y3:33:ALA:HB2	21:i3:582:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y3:55:ILE:HG23	17:Y3:75:ILE:HG12	2.02	0.41
18:Z3:41:ARG:N	21:i6:210:U:O3'	2.54	0.41
18:Z3:85:ARG:CD	21:i3:1598:G:O6	2.47	0.41
21:i3:12:U:H4'	21:i3:1356:G:O2'	2.21	0.41
21:i3:72:C:O3'	21:i3:73:C:H2'	2.21	0.41
21:i3:141:A:N3	21:i3:143:U:H1'	2.36	0.41
21:i3:212:C:O5'	21:i3:212:C:H6	2.03	0.41
21:i3:1214:A:O2'	21:i3:1216:C:OP1	2.28	0.41
22:A3:215:GLN:C	22:A3:217:ALA:N	2.78	0.41
24:D3:154:ASP:OD1	24:D3:155:GLY:N	2.53	0.41
26:F3:96:ALA:HA	26:F3:99:ILE:HG22	2.01	0.41
28:I3:190:LEU:O	28:I3:195:LEU:HD22	2.21	0.41
29:K3:32:HIS:ND1	29:K3:33:PRO:HD2	2.35	0.41
33:R3:67:ARG:HA	33:R3:68:GLY:HA2	1.63	0.41
9:g4:260:ASP:HB3	9:g4:261:LEU:H	1.67	0.41
10:C4:65:LYS:CA	10:C4:277:HIS:HE1	2.24	0.41
12:J4:114:VAL:HG13	12:J4:119:LEU:HD22	2.03	0.41
19:b4:10:PRO:HB2	19:b4:11:SER:H	1.65	0.41
21:i4:7:G:H1	21:i4:17:C:H42	1.69	0.41
21:i4:54:A:H3'	21:i4:451:G:H22	1.85	0.41
21:i4:315:C:O5'	21:i4:315:C:C6	2.71	0.41
21:i4:378:U:H5'	28:I4:97:VAL:CG1	2.50	0.41
21:i4:468:A:H2'	21:i4:469:A:O4'	2.21	0.41
21:i4:736:C:H6	21:i4:736:C:H5''	1.84	0.41
21:i4:836:G:N7	21:i4:837:A:O2'	2.54	0.41
21:i4:875:A:H2	21:i4:911:C:O2	2.04	0.41
21:i4:950:C:H2'	21:i4:951:C:O4'	2.21	0.41
21:i4:1173:A:H2'	21:i4:1174:U:O4'	2.21	0.41
21:i4:1544:C:H2'	21:i4:1545:A:H5''	2.03	0.41
21:i4:1648:G:H5''	32:Q4:125:ARG:HB3	2.03	0.41
22:A4:211:GLU:HB2	33:R4:81:ARG:NH2	2.19	0.41
32:Q4:86:GLN:HE22	32:Q4:122:ALA:HB2	1.86	0.41
2:U5:56:MET:HE1	21:i5:1580:A:C8	2.55	0.41
2:U5:61:LEU:HD21	24:D5:8:LYS:HG3	2.02	0.41
10:C5:185:THR:HG22	10:C5:194:ARG:HB3	2.02	0.41
11:G5:37:ALA:HA	11:G5:49:VAL:HG12	2.02	0.41
11:G5:67:VAL:HG11	11:G5:99:GLY:HA2	2.03	0.41
12:J5:64:ASP:HB3	16:W5:117:ARG:NH2	2.36	0.41
14:N5:143:SER:OG	14:N5:144:SER:N	2.53	0.41
18:Z5:77:LEU:HD23	18:Z5:78:LYS:H	1.85	0.41
21:i5:72:C:O3'	21:i5:73:C:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:468:A:H2'	21:i5:469:A:O4'	2.21	0.41
21:i5:795:A:H62	27:H5:109:ARG:HH12	1.68	0.41
21:i5:1200:A:O2'	21:i5:1357:A:N1	2.38	0.41
21:i5:1395:C:OP1	32:Q5:15:ARG:NH2	2.53	0.41
23:B5:37:ALA:O	23:B5:39:PHE:N	2.47	0.41
26:F5:96:ALA:HA	26:F5:99:ILE:HG22	2.01	0.41
26:F5:98:GLU:N	26:F5:98:GLU:OE1	2.54	0.41
31:P5:20:VAL:CG1	31:P5:25:LEU:HG	2.50	0.41
3:V6:50:PHE:CE2	10:C6:267:GLN:NE2	2.85	0.41
7:d6:25:SER:OG	29:K6:65:ARG:NH1	2.53	0.41
9:g6:44:LYS:HG3	9:g6:55:PRO:O	2.21	0.41
9:g6:105:THR:OG1	9:g6:106:LYS:N	2.54	0.41
10:C6:73:MET:O	10:C6:73:MET:HG3	2.20	0.41
11:G6:78:SER:OG	11:G6:79:LYS:N	2.53	0.41
12:J6:94:LEU:HA	12:J6:97:ILE:HD12	2.02	0.41
14:N6:114:ARG:O	14:N6:118:ILE:HG13	2.21	0.41
15:O6:28:PHE:HA	15:O6:92:ALA:O	2.21	0.41
16:W6:111:MET:HG3	16:W6:112:ASP:H	1.84	0.41
18:Z6:111:ARG:C	18:Z6:113:THR:H	2.29	0.41
19:b6:67:THR:OG1	19:b6:68:GLY:N	2.51	0.41
21:i6:303:C:H1'	28:I6:184:ARG:NH2	2.36	0.41
21:i6:306:C:H5'	21:i6:309:G:OP2	2.20	0.41
21:i6:535:G:H22	21:i6:548:C:H42	1.68	0.41
21:i6:950:C:H2'	21:i6:951:C:O4'	2.21	0.41
21:i6:1862:G:H4'	21:i6:1863:A:OP1	2.21	0.41
22:A6:25:LEU:HB2	22:A6:46:ILE:HG21	2.03	0.41
23:B6:138:PHE:CD2	23:B6:214:LYS:HB3	2.56	0.41
24:D6:137:VAL:HG22	24:D6:151:LYS:HG2	2.02	0.41
26:F6:35:LEU:HD12	26:F6:117:ILE:HD13	2.02	0.41
26:F6:98:GLU:OE1	26:F6:98:GLU:N	2.54	0.41
27:H6:15:LYS:H	27:H6:16:PRO:HD2	1.85	0.41
28:I6:90:LEU:HD13	28:I6:97:VAL:HG21	2.02	0.41
33:R6:7:LYS:NZ	33:R6:11:LYS:HD2	2.35	0.41
36:k2:17:LEU:HD13	36:k2:25:ILE:HD12	2.03	0.41
36:k2:33:PHE:CE1	36:k2:92:LEU:CD1	2.89	0.41
36:k5:95:GLN:O	36:k5:134:ILE:HG23	2.21	0.41
37:l1:136:THR:CG2	37:l1:137:PHE:CA	2.99	0.41
37:l6:181:LYS:HB2	37:l6:182:TRP:HA	2.02	0.41
1:T1:40:ALA:N	1:T1:96:SER:HB2	2.35	0.41
2:U1:56:MET:HE1	21:i1:1580:A:C8	2.55	0.41
3:V1:53:TYR:CE1	3:V1:72:LEU:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X1:58:GLU:HG2	4:X1:66:ILE:HG12	2.03	0.41
5:a1:99:PRO:CB	5:a1:101:PHE:CE2	2.87	0.41
6:c1:11:LEU:HB2	6:c1:36:ASP:HB2	2.03	0.41
8:f1:131:PHE:O	21:i1:1310:U:P	2.78	0.41
9:g1:32:LEU:HD23	9:g1:71:ILE:HD12	2.03	0.41
9:g1:157:SER:HA	9:g1:200:VAL:HG11	2.03	0.41
10:C1:165:VAL:HG12	10:C1:244:ILE:HB	2.02	0.41
10:C1:168:GLY:N	10:C1:179:THR:O	2.32	0.41
10:C1:183:LYS:HE3	16:W1:95:PRO:HA	2.03	0.41
10:C1:189:GLY:O	10:C1:191:VAL:N	2.48	0.41
11:G1:37:ALA:HA	11:G1:49:VAL:HG12	2.01	0.41
11:G1:67:VAL:N	11:G1:100:CYS:SG	2.90	0.41
12:J1:94:LEU:HA	12:J1:97:ILE:HD12	2.02	0.41
12:J1:136:ARG:HB3	12:J1:141:VAL:HG12	2.03	0.41
15:O1:28:PHE:HA	15:O1:92:ALA:O	2.21	0.41
15:O1:39:ASP:N	15:O1:69:SER:HB3	2.35	0.41
17:Y1:60:PHE:N	17:Y1:71:GLY:HA2	2.31	0.41
18:Z1:77:LEU:HD23	18:Z1:78:LYS:H	1.85	0.41
19:b1:35:VAL:HA	19:b1:79:PHE:HA	2.03	0.41
21:i1:7:G:H1	21:i1:17:C:H42	1.69	0.41
21:i1:118:C:H1'	21:i1:445:A:C4	2.56	0.41
21:i1:629:A:C6	21:i1:632:C:C2	3.08	0.41
21:i1:744:G:O2'	27:H1:107:LYS:HA	2.21	0.41
21:i1:815:U:H2'	21:i1:816:A:C8	2.46	0.41
21:i1:958:G:C6	21:i1:959:G:N1	2.89	0.41
21:i1:963:A:H5'	28:I3:123:ARG:HH22	1.86	0.41
21:i1:1520:G:H5'	21:i1:1521:C:OP2	2.21	0.41
21:i1:1521:C:C5	34:S1:137:LYS:CB	3.03	0.41
21:i1:1528:G:O2'	21:i1:1666:C:OP1	2.38	0.41
21:i1:1544:C:H2'	21:i1:1545:A:H5''	2.03	0.41
21:i1:1751:C:H3'	21:i1:1751:C:H6	1.86	0.41
22:A1:3:GLY:HA2	22:A1:63:ARG:NH2	2.35	0.41
22:A1:85:ARG:O	22:A1:89:LYS:HG2	2.21	0.41
23:B1:21:VAL:HG23	23:B1:22:VAL:HG23	2.03	0.41
23:B1:71:LEU:HB2	23:B1:82:ARG:HB2	2.02	0.41
25:E1:36:HIS:HD1	25:E1:41:CYS:HB3	1.85	0.41
26:F1:17:ILE:HG23	26:F1:18:LYS:N	2.36	0.41
26:F1:45:TYR:H	26:F1:46:ALA:CA	2.33	0.41
26:F1:96:ALA:O	26:F1:99:ILE:HG22	2.21	0.41
26:F1:137:GLN:CB	26:F1:204:ARG:OXT	2.60	0.41
27:H1:81:ARG:O	27:H1:85:LYS:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:I1:177:SER:HB2	28:I1:186:ASP:HB2	2.02	0.41
28:I1:178:ARG:O	28:I1:178:ARG:HG3	2.21	0.41
28:I1:201:LYS:O	28:I1:205:ARG:HG2	2.21	0.41
29:K1:26:ASP:H	29:K1:42:ASN:ND2	2.19	0.41
31:P1:119:PHE:CZ	34:S1:119:ALA:CB	2.97	0.41
3:V2:66:ASP:OD2	22:A2:154:LEU:HD13	2.21	0.41
4:X2:55:VAL:HG21	20:e2:2:VAL:HA	0.41	0.41
4:X2:85:VAL:HG12	4:X2:122:VAL:HG11	2.02	0.41
5:a2:53:ILE:HG12	15:O2:126:ILE:CD1	2.51	0.41
5:a2:100:ARG:HD2	5:a2:101:PHE:N	2.36	0.41
6:c2:11:LEU:HB2	6:c2:36:ASP:HB2	2.03	0.41
9:g2:44:LYS:HG3	9:g2:55:PRO:O	2.21	0.41
9:g2:69:VAL:HG23	9:g2:80:SER:HB3	2.02	0.41
9:g2:72:SER:OG	9:g2:115:SER:HA	2.20	0.41
10:C2:104:ASP:OD1	10:C2:105:GLU:N	2.53	0.41
10:C2:107:LEU:HB2	10:C2:127:PHE:HB2	2.02	0.41
10:C2:127:PHE:HA	10:C2:140:GLY:O	2.20	0.41
10:C2:276:THR:C	10:C2:278:THR:H	2.29	0.41
11:G2:133:LEU:HG	11:G2:160:LYS:NZ	2.35	0.41
11:G2:189:ARG:HD3	21:i2:330:G:C8	2.47	0.41
11:G2:220:ALA:O	11:G2:224:ARG:N	2.53	0.41
13:M2:38:ALA:HB1	13:M2:110:VAL:HG23	2.03	0.41
14:N2:114:ARG:O	14:N2:118:ILE:HG13	2.21	0.41
15:O2:38:ASN:C	15:O2:69:SER:HB3	2.45	0.41
16:W2:35:VAL:O	16:W2:39:THR:HG23	2.20	0.41
17:Y2:40:ILE:O	17:Y2:44:LEU:HD13	2.21	0.41
17:Y2:90:ARG:HA	17:Y2:93:ARG:HG2	2.02	0.41
17:Y2:125:VAL:HG12	17:Y2:129:LYS:NZ	2.36	0.41
21:i2:141:A:N3	21:i2:143:U:H1'	2.36	0.41
21:i2:303:C:H1'	28:I2:184:ARG:NH2	2.36	0.41
21:i2:338:G:H2'	21:i2:339:A:C8	2.56	0.41
21:i2:378:U:H5'	28:I2:97:VAL:CG1	2.51	0.41
21:i2:468:A:H2'	21:i2:469:A:O4'	2.21	0.41
21:i2:481:C:H5''	21:i2:482:G:OP2	2.21	0.41
21:i2:629:A:C6	21:i2:632:C:C2	3.08	0.41
21:i2:643:A:H4'	21:i2:644:G:H5'	2.03	0.41
21:i2:875:A:H2	21:i2:911:C:O2	2.04	0.41
21:i2:1036:A:C2	21:i2:1844:U:H4'	2.56	0.41
21:i2:1083:A:N7	21:i2:1841:C:O2'	2.52	0.41
21:i2:1648:G:HO2'	21:i2:1674:G:H1	1.69	0.41
21:i2:1680:G:H2'	21:i2:1681:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1740:C:H2'	21:i2:1741:U:C6	2.56	0.41
22:A2:25:LEU:HB2	22:A2:46:ILE:HG21	2.03	0.41
23:B2:87:ILE:N	23:B2:99:ASN:O	2.53	0.41
23:B2:167:LYS:NZ	23:B2:200:ALA:O	2.54	0.41
24:D2:137:VAL:HG22	24:D2:151:LYS:HG2	2.02	0.41
25:E2:180:LEU:HD12	25:E2:228:ILE:HG13	2.02	0.41
25:E2:184:THR:HA	25:E2:189:LEU:HB2	2.02	0.41
26:F2:35:LEU:HD12	26:F2:117:ILE:HD13	2.02	0.41
27:H2:81:ARG:O	27:H2:85:LYS:HD3	2.21	0.41
29:K2:26:ASP:H	29:K2:42:ASN:ND2	2.19	0.41
31:P2:50:ARG:HA	31:P2:50:ARG:HD3	1.72	0.41
32:Q2:134:GLY:HA3	32:Q2:141:TYR:N	2.33	0.41
1:T3:41:LYS:HD2	21:i3:1627:C:C5'	2.51	0.41
2:U3:49:LYS:O	2:U3:50:VAL:HG12	2.21	0.41
3:V3:28:ASP:OD2	3:V3:31:SER:HB3	2.21	0.41
5:a3:97:PRO:CB	21:i3:1868:U:H3	2.33	0.41
6:c3:66:ARG:O	6:c3:67:ARG:C	2.63	0.41
8:f3:99:LYS:NZ	21:i3:1285:G:C2	2.76	0.41
9:g3:44:LYS:HG3	9:g3:55:PRO:O	2.21	0.41
9:g3:127:LYS:HE2	9:g3:127:LYS:HB2	1.94	0.41
11:G3:7:PHE:HA	11:G3:8:PRO:HD2	1.91	0.41
11:G3:133:LEU:HG	11:G3:160:LYS:NZ	2.36	0.41
11:G3:145:PHE:CD1	11:G3:145:PHE:O	2.74	0.41
13:M3:38:ALA:HB1	13:M3:110:VAL:HG23	2.03	0.41
14:N3:38:TYR:OH	14:N3:74:ILE:CG1	2.69	0.41
15:O3:75:MET:O	15:O3:79:GLN:HG2	2.21	0.41
16:W3:32:LYS:HA	16:W3:35:VAL:HG22	2.02	0.41
17:Y3:21:LYS:HE2	17:Y3:23:MET:HE1	2.03	0.41
18:Z3:111:ARG:C	18:Z3:113:THR:H	2.29	0.41
21:i3:118:C:H1'	21:i3:445:A:C4	2.56	0.41
21:i3:303:C:H1'	28:I3:184:ARG:NH2	2.36	0.41
21:i3:338:G:H2'	21:i3:339:A:C8	2.56	0.41
21:i3:689:U:C3'	21:i3:689:U:C6	3.04	0.41
21:i3:733:C:H42	27:H3:149:ASP:CG	2.12	0.41
21:i3:958:G:C6	21:i3:959:G:N1	2.89	0.41
21:i3:970:G:H5'	28:I6:200:ARG:HH21	1.86	0.41
21:i3:1069:U:P	36:k3:18:LYS:HE2	2.61	0.41
21:i3:1412:C:H5'	21:i3:1413:G:OP1	2.20	0.41
21:i3:1521:C:C5	34:S3:137:LYS:CB	3.03	0.41
21:i3:1592:C:H2'	21:i3:1593:C:C6	2.56	0.41
21:i3:1740:C:H2'	21:i3:1741:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A3:214:GLU:OE1	33:R3:84:TYR:HD1	1.94	0.41
24:D3:71:ALA:HB1	29:K3:20:VAL:HG21	2.02	0.41
24:D3:105:LEU:HD23	24:D3:184:ILE:HD12	2.01	0.41
25:E3:180:LEU:HD12	25:E3:228:ILE:HG13	2.02	0.41
26:F3:35:LEU:HD12	26:F3:117:ILE:HD13	2.02	0.41
27:H3:40:LEU:HD23	27:H3:40:LEU:O	2.21	0.41
27:H3:81:ARG:O	27:H3:85:LYS:HD3	2.21	0.41
28:I3:177:SER:HB2	28:I3:186:ASP:HB2	2.02	0.41
28:I3:193:LYS:HE3	30:L3:32:LYS:HZ3	1.86	0.41
30:L3:37:TYR:CD2	30:L3:51:ILE:HG12	2.56	0.41
31:P3:85:ILE:HD11	31:P3:116:LEU:HD23	2.03	0.41
32:Q3:37:ARG:HB3	32:Q3:41:MET:HG3	2.02	0.41
33:R3:65:PRO:CB	33:R3:73:LEU:HD23	2.50	0.41
1:T4:14:PHE:CZ	1:T4:131:LEU:HD11	2.56	0.41
1:T4:40:ALA:N	1:T4:96:SER:HB2	2.35	0.41
1:T4:133:ARG:NH2	21:i4:1420:G:O3'	2.52	0.41
4:X4:58:GLU:HG2	4:X4:66:ILE:HG12	2.03	0.41
5:a4:53:ILE:HG12	15:O4:126:ILE:CD1	2.51	0.41
5:a4:105:GLY:C	5:a4:107:ALA:N	2.73	0.41
6:c4:22:GLY:HA3	6:c4:27:CYS:SG	2.60	0.41
9:g4:147:HIS:HB2	9:g4:149:GLU:O	2.20	0.41
9:g4:152:SER:HB2	9:g4:168:CYS:SG	2.60	0.41
9:g4:256:ILE:HD12	9:g4:270:LEU:HD22	2.03	0.41
10:C4:68:ARG:HH11	10:C4:277:HIS:HB3	0.48	0.41
10:C4:127:PHE:HA	10:C4:140:GLY:O	2.20	0.41
10:C4:276:THR:C	10:C4:278:THR:H	2.29	0.41
11:G4:21:GLU:O	11:G4:25:ARG:HG2	2.20	0.41
11:G4:142:ARG:CD	11:G4:147:LEU:CD1	2.82	0.41
11:G4:160:LYS:H	11:G4:172:LYS:HG2	1.85	0.41
15:O4:75:MET:O	15:O4:79:GLN:HG2	2.21	0.41
21:i4:118:C:H1'	21:i4:445:A:C4	2.56	0.41
21:i4:517:C:H2'	21:i4:518:G:O4'	2.20	0.41
21:i4:526:A:H2'	21:i4:527:C:H5'	2.01	0.41
21:i4:533:A:N6	21:i4:552:G:H1'	2.35	0.41
21:i4:958:G:C6	21:i4:959:G:N1	2.89	0.41
21:i4:1036:A:C2	21:i4:1844:U:H4'	2.56	0.41
21:i4:1377:U:C5	22:A4:102:ARG:NE	2.42	0.41
21:i4:1420:G:H22	21:i4:1427:C:H2'	1.86	0.41
21:i4:1520:G:H5'	21:i4:1521:C:OP2	2.21	0.41
21:i4:1592:C:H2'	21:i4:1593:C:C6	2.56	0.41
21:i4:1592:C:H4'	32:Q4:44:PRO:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1772:C:H5''	21:i4:1773:C:OP2	2.21	0.41
22:A4:123:VAL:HG12	22:A4:145:ILE:CG1	2.51	0.41
22:A4:201:LEU:N	33:R4:85:VAL:HG11	2.36	0.41
23:B4:167:LYS:NZ	23:B4:200:ALA:O	2.54	0.41
26:F4:96:ALA:O	26:F4:99:ILE:HG22	2.21	0.41
26:F4:98:GLU:N	26:F4:98:GLU:OE1	2.54	0.41
27:H4:40:LEU:O	27:H4:40:LEU:HD23	2.21	0.41
31:P4:81:ARG:HB3	31:P4:117:GLY:CA	2.44	0.41
33:R4:95:ILE:N	33:R4:96:ILE:HA	2.27	0.41
2:U5:49:LYS:O	2:U5:50:VAL:HG12	2.21	0.41
2:U5:56:MET:HB2	2:U5:86:LYS:HB2	2.02	0.41
3:V5:36:VAL:O	22:A5:67:ALA:HB2	2.20	0.41
6:c5:22:GLY:HA3	6:c5:27:CYS:SG	2.61	0.41
8:f5:132:MET:HG2	8:f5:141:CYS:HB2	2.01	0.41
9:g5:105:THR:OG1	9:g5:106:LYS:N	2.54	0.41
10:C5:65:LYS:CG	10:C5:279:ARG:NE	2.74	0.41
10:C5:276:THR:C	10:C5:278:THR:H	2.29	0.41
11:G5:21:GLU:O	11:G5:25:ARG:HG2	2.20	0.41
11:G5:133:LEU:HG	11:G5:160:LYS:NZ	2.36	0.41
11:G5:189:ARG:HD3	21:i5:329:G:H8	1.85	0.41
12:J5:114:VAL:HG13	12:J5:119:LEU:HD22	2.02	0.41
14:N5:16:LEU:HD22	21:i5:919:A:H5'	2.02	0.41
15:O5:75:MET:O	15:O5:79:GLN:HG2	2.21	0.41
17:Y5:40:ILE:O	17:Y5:44:LEU:HD13	2.20	0.41
21:i5:7:G:H1	21:i5:17:C:H42	1.69	0.41
21:i5:39:A:H61	21:i5:515:G:H1'	1.86	0.41
21:i5:61:A:H4'	21:i5:317:C:O4'	2.19	0.41
21:i5:118:C:H1'	21:i5:445:A:C4	2.56	0.41
21:i5:303:C:H1'	28:I5:184:ARG:NH2	2.36	0.41
21:i5:338:G:H2'	21:i5:339:A:C8	2.56	0.41
21:i5:558:G:C8	21:i5:558:G:O5'	2.73	0.41
21:i5:629:A:C6	21:i5:632:C:C2	3.08	0.41
21:i5:744:G:O2'	27:H5:107:LYS:HA	2.21	0.41
21:i5:950:C:H2'	21:i5:951:C:O4'	2.21	0.41
21:i5:1199:A:H2	21:i5:1356:G:N2	2.18	0.41
21:i5:1290:G:N2	21:i5:1310:U:O2	2.53	0.41
21:i5:1458:G:C6	21:i5:1459:G:C5	3.09	0.41
21:i5:1772:C:H5''	21:i5:1773:C:OP2	2.21	0.41
22:A5:201:LEU:HA	33:R5:85:VAL:HG11	2.03	0.41
24:D5:99:ILE:O	24:D5:103:GLU:HG2	2.21	0.41
24:D5:105:LEU:HD23	24:D5:184:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D5:154:ASP:OD1	24:D5:155:GLY:N	2.54	0.41
25:E5:36:HIS:HD1	25:E5:41:CYS:HB3	1.85	0.41
26:F5:136:ARG:O	26:F5:203:ASN:CB	2.67	0.41
28:I5:144:LYS:HA	28:I5:144:LYS:HD2	1.91	0.41
31:P5:18:ARG:HA	34:S5:93:GLY:HA3	2.02	0.41
31:P5:81:ARG:HB3	31:P5:117:GLY:CA	2.44	0.41
1:T6:41:LYS:HD2	21:i6:1627:C:C5'	2.51	0.41
4:X6:140:ARG:HA	4:X6:141:PRO:HD3	1.97	0.41
6:c6:22:GLY:HA3	6:c6:27:CYS:SG	2.60	0.41
6:c6:59:LEU:HD21	26:F6:122:ARG:HE	1.85	0.41
6:c6:66:ARG:O	6:c6:67:ARG:C	2.63	0.41
7:d6:6:LEU:HA	7:d6:7:TYR:HA	1.76	0.41
9:g6:32:LEU:HD23	9:g6:71:ILE:HD12	2.02	0.41
9:g6:256:ILE:HD12	9:g6:270:LEU:HD22	2.03	0.41
10:C6:127:PHE:HA	10:C6:140:GLY:O	2.20	0.41
12:J6:71:LEU:C	12:J6:74:GLY:H	2.29	0.41
13:M6:101:ARG:HG3	13:M6:102:LYS:H	1.86	0.41
14:N6:38:TYR:OH	14:N6:74:ILE:CG1	2.69	0.41
14:N6:123:HIS:O	14:N6:127:ARG:NH1	2.54	0.41
17:Y6:20:ARG:HB3	17:Y6:76:TYR:CD1	2.55	0.41
20:e6:45:VAL:HG13	20:e6:47:PRO:HD3	2.03	0.41
21:i6:332:G:C8	21:i6:332:G:O5'	2.74	0.41
21:i6:378:U:H5'	28:I6:97:VAL:CG1	2.51	0.41
21:i6:517:C:H2'	21:i6:518:G:O4'	2.20	0.41
21:i6:533:A:N6	21:i6:552:G:H1'	2.35	0.41
21:i6:688:U:C1'	21:i6:689:U:OP2	2.67	0.41
21:i6:815:U:H2'	21:i6:816:A:C8	2.46	0.41
21:i6:836:G:N7	21:i6:837:A:O2'	2.54	0.41
21:i6:1464:C:P	33:R6:60:ARG:HH12	2.42	0.41
21:i6:1522:A:N6	31:P6:131:PRO:CA	2.84	0.41
21:i6:1592:C:H4'	32:Q6:44:PRO:HB2	2.02	0.41
21:i6:1740:C:H2'	21:i6:1741:U:C6	2.56	0.41
21:i6:1755:C:C1'	21:i6:1777:G:H22	2.31	0.41
24:D6:34:TYR:HA	24:D6:52:ALA:HB1	2.02	0.41
24:D6:162:ASP:N	24:D6:163:PRO:HD2	2.36	0.41
26:F6:140:ASP:OD1	26:F6:141:VAL:N	2.51	0.41
27:H6:34:SER:OG	27:H6:35:ASP:N	2.54	0.41
28:I6:84:ASN:HD21	28:I6:90:LEU:HD12	1.85	0.41
28:I6:161:LEU:HD23	28:I6:196:GLU:HB3	2.03	0.41
28:I6:197:PHE:O	28:I6:200:ARG:HB3	2.21	0.41
29:K6:2:LEU:HD12	29:K6:3:MET:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:R6:14:ARG:HA	33:R6:17:ILE:HB	2.03	0.41
33:R6:119:VAL:HA	33:R6:120:THR:HA	1.72	0.41
36:k2:143:LEU:O	36:k2:169:TYR:HA	2.20	0.41
36:k2:144:CYS:HA	36:k2:168:HIS:C	2.41	0.41
36:k3:17:LEU:HD13	36:k3:25:ILE:HD12	2.03	0.41
36:k4:145:VAL:H	36:k4:167:ILE:HB	1.85	0.41
37:l1:185:VAL:HA	37:l1:186:ASP:HA	1.51	0.41
37:l2:181:LYS:HB2	37:l2:182:TRP:HA	2.02	0.41
37:l4:114:LYS:HE3	37:l4:114:LYS:HB3	1.41	0.41
2:U1:20:ILE:CD1	2:U1:116:ILE:O	2.69	0.41
4:X1:124:LYS:HA	4:X1:129:SER:HA	2.04	0.41
5:a1:53:ILE:HG12	15:O1:126:ILE:CD1	2.51	0.41
8:f1:87:THR:CB	8:f1:90:LYS:CE	2.85	0.41
8:f1:93:HIS:CG	8:f1:94:LYS:H	2.38	0.41
10:C1:127:PHE:HA	10:C1:140:GLY:O	2.20	0.41
14:N1:142:GLU:CB	14:N1:145:THR:OG1	2.67	0.41
15:O1:28:PHE:HD2	15:O1:94:HIS:NE2	2.19	0.41
21:i1:795:A:H62	27:H1:109:ARG:HH12	1.68	0.41
21:i1:1334:G:H4'	24:D1:183:GLY:H	1.86	0.41
21:i1:1395:C:OP1	32:Q1:15:ARG:NH2	2.53	0.41
21:i1:1621:U:O4	31:P1:82:ASP:CG	2.41	0.41
21:i1:1702:G:O5'	21:i1:1702:G:C8	2.70	0.41
22:A1:201:LEU:HA	33:R1:85:VAL:HG11	2.03	0.41
26:F1:98:GLU:N	26:F1:98:GLU:OE1	2.54	0.41
29:K1:31:LYS:HG2	29:K1:32:HIS:O	2.21	0.41
33:R1:6:THR:HG22	33:R1:8:THR:H	1.86	0.41
1:T2:23:LYS:HD3	1:T2:54:TYR:CG	2.56	0.41
8:f2:97:LYS:HG2	21:i2:1288:U:OP2	2.18	0.41
10:C2:185:THR:HG22	10:C2:194:ARG:HB3	2.02	0.41
10:C2:210:PRO:HD3	10:C2:236:PHE:CE2	2.56	0.41
11:G2:37:ALA:HA	11:G2:49:VAL:HG12	2.02	0.41
13:M2:101:ARG:HG3	13:M2:102:LYS:H	1.86	0.41
14:N2:25:TRP:C	14:N2:27:LYS:H	2.29	0.41
14:N2:38:TYR:OH	14:N2:74:ILE:CG1	2.69	0.41
18:Z2:77:LEU:HD23	18:Z2:78:LYS:H	1.85	0.41
20:e2:31:ARG:NH1	21:i2:525:A:O2'	2.54	0.41
21:i2:30:C:O2'	21:i2:596:U:OP1	2.24	0.41
21:i2:118:C:H1'	21:i2:445:A:C4	2.56	0.41
21:i2:148:U:H2'	21:i2:149:A:C8	2.55	0.41
21:i2:368:U:O4	36:k5:110:ASN:O	2.38	0.41
21:i2:1334:G:H4'	24:D2:183:GLY:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1372:U:OP1	21:i2:1385:G:N2	2.40	0.41
21:i2:1629:C:OP1	34:S2:39:ARG:NE	2.54	0.41
23:B2:24:PRO:CD	30:L4:27:GLU:CG	2.95	0.41
23:B2:138:PHE:CD2	23:B2:214:LYS:HB3	2.56	0.41
24:D2:25:LEU:HD23	24:D2:37:VAL:HG11	2.02	0.41
27:H2:40:LEU:O	27:H2:40:LEU:HD23	2.21	0.41
31:P2:124:LYS:HG2	31:P2:125:PRO:CD	2.48	0.41
32:Q2:60:LYS:O	32:Q2:64:ALA:N	2.54	0.41
5:a3:99:PRO:HB3	21:i3:1868:U:C4	2.55	0.41
9:g3:112:ALA:HB2	9:g3:154:VAL:HG23	2.02	0.41
11:G3:139:SER:O	11:G3:142:ARG:HB2	2.21	0.41
12:J3:158:ASP:OD1	12:J3:159:PHE:N	2.44	0.41
21:i3:318:A:H2	21:i3:332:G:H22	1.69	0.41
21:i3:1069:U:C5'	36:k3:16:GLN:O	2.68	0.41
22:A3:72:ALA:HA	22:A3:95:GLY:O	2.21	0.41
22:A3:130:ASP:O	22:A3:133:PRO:HD2	2.21	0.41
24:D3:25:LEU:HD23	24:D3:37:VAL:HG11	2.02	0.41
26:F3:91:ARG:O	26:F3:95:HIS:ND1	2.54	0.41
28:I3:37:LYS:O	28:I3:60:LEU:N	2.39	0.41
29:K3:31:LYS:HG2	29:K3:32:HIS:O	2.21	0.41
34:S3:81:ASP:O	34:S3:87:GLN:NE2	2.49	0.41
5:a4:99:PRO:HB3	21:i4:1868:U:C4	2.55	0.41
11:G4:133:LEU:HG	11:G4:160:LYS:NZ	2.36	0.41
11:G4:146:ASN:HD22	11:G4:146:ASN:HA	1.59	0.41
11:G4:189:ARG:NH1	21:i4:329:G:N7	2.68	0.41
13:M4:22:LEU:HD12	13:M4:88:TRP:HB3	2.03	0.41
16:W4:32:LYS:HA	16:W4:35:VAL:HG22	2.01	0.41
17:Y4:33:ALA:HB2	21:i4:582:C:O4'	2.21	0.41
18:Z4:75:GLU:CD	21:i5:193:C:H5''	2.46	0.41
18:Z4:77:LEU:HD23	18:Z4:78:LYS:H	1.85	0.41
18:Z4:111:ARG:C	18:Z4:113:THR:H	2.29	0.41
19:b4:37:CYS:HA	19:b4:63:LEU:CD2	2.50	0.41
21:i4:303:C:H1'	28:I4:184:ARG:NH2	2.36	0.41
21:i4:643:A:H4'	21:i4:644:G:H5'	2.02	0.41
21:i4:1176:G:H2'	21:i4:1177:U:O4'	2.21	0.41
21:i4:1226:G:N1	21:i4:1639:G:OP2	2.51	0.41
21:i4:1240:A:N3	31:P4:100:LYS:CG	2.82	0.41
21:i4:1521:C:N3	34:S4:137:LYS:HG3	2.36	0.41
21:i4:1528:G:O2'	21:i4:1666:C:OP1	2.38	0.41
23:B4:103:MET:HG2	23:B4:215:VAL:CG1	2.48	0.41
24:D4:64:ARG:CG	29:K4:95:ARG:NH1	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:E4:184:THR:HA	25:E4:189:LEU:HB2	2.02	0.41
26:F4:140:ASP:OD1	26:F4:141:VAL:N	2.51	0.41
28:I4:178:ARG:O	28:I4:178:ARG:HG3	2.21	0.41
31:P4:15:PHE:C	31:P4:16:THR:HG1	2.18	0.41
31:P4:51:ARG:O	31:P4:54:HIS:N	2.53	0.41
5:a5:99:PRO:HB3	21:i5:1868:U:C4	2.55	0.41
8:f5:99:LYS:HB2	21:i5:1285:G:H21	1.71	0.41
10:C5:279:ARG:HH12	22:A5:118:GLU:HG2	1.86	0.41
11:G5:146:ASN:HD22	11:G5:146:ASN:HA	1.59	0.41
11:G5:184:VAL:HG12	11:G5:188:LYS:HG2	2.03	0.41
15:O5:28:PHE:HD2	15:O5:94:HIS:CE1	2.39	0.41
17:Y5:13:MET:O	17:Y5:22:GLN:N	2.47	0.41
17:Y5:125:VAL:HG12	17:Y5:129:LYS:NZ	2.36	0.41
21:i5:557:U:O2	21:i5:558:G:O6	2.38	0.41
21:i5:875:A:H2	21:i5:911:C:O2	2.04	0.41
21:i5:1174:U:OP1	35:j5:21:ARG:NH2	2.50	0.41
21:i5:1240:A:N3	31:P5:100:LYS:CG	2.82	0.41
21:i5:1522:A:N6	31:P5:131:PRO:CA	2.84	0.41
22:A5:14:ASP:OD1	22:A5:17:LYS:NZ	2.52	0.41
22:A5:130:ASP:O	22:A5:133:PRO:HD2	2.21	0.41
23:B5:131:ASP:O	23:B5:133:TYR:N	2.51	0.41
27:H5:40:LEU:O	27:H5:40:LEU:HD23	2.21	0.41
27:H5:125:VAL:O	27:H5:129:ILE:HG13	2.21	0.41
29:K5:31:LYS:HG2	29:K5:32:HIS:O	2.21	0.41
33:R5:58:MET:HA	33:R5:61:ILE:CD1	2.51	0.41
2:U6:49:LYS:O	2:U6:50:VAL:HG12	2.21	0.41
3:V6:36:VAL:O	22:A6:67:ALA:HB2	2.21	0.41
3:V6:66:ASP:OD2	22:A6:154:LEU:HD13	2.21	0.41
5:a6:53:ILE:HG12	15:O6:126:ILE:CD1	2.51	0.41
5:a6:99:PRO:CB	5:a6:101:PHE:CE2	2.87	0.41
8:f6:97:LYS:HG2	21:i6:1288:U:OP2	2.18	0.41
11:G6:63:MET:HE1	11:G6:100:CYS:HA	2.02	0.41
11:G6:133:LEU:HG	11:G6:160:LYS:NZ	2.36	0.41
13:M6:48:HIS:O	13:M6:74:ILE:HG23	2.20	0.41
15:O6:28:PHE:HD2	15:O6:94:HIS:CE1	2.39	0.41
15:O6:75:MET:O	15:O6:79:GLN:HG2	2.21	0.41
15:O6:97:LEU:HD21	15:O6:112:ALA:HB1	2.03	0.41
16:W6:32:LYS:HA	16:W6:35:VAL:HG22	2.02	0.41
21:i6:629:A:C6	21:i6:632:C:C2	3.08	0.41
21:i6:1176:G:H2'	21:i6:1177:U:O4'	2.21	0.41
21:i6:1206:G:N3	21:i6:1834:A:H1'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1458:G:C6	21:i6:1459:G:C5	3.09	0.41
22:A6:38:ILE:HG13	22:A6:39:TYR:N	2.36	0.41
22:A6:130:ASP:O	22:A6:133:PRO:HD2	2.21	0.41
26:F6:14:THR:HA	26:F6:15:PRO:HA	1.72	0.41
27:H6:10:LYS:NZ	27:H6:14:GLU:OE2	2.48	0.41
27:H6:81:ARG:O	27:H6:85:LYS:HD3	2.21	0.41
27:H6:125:VAL:O	27:H6:129:ILE:HG13	2.21	0.41
32:Q6:86:GLN:HE22	32:Q6:122:ALA:HB2	1.86	0.41
36:k5:10:ASN:C	36:k5:56:HIS:ND1	2.75	0.41
36:k5:109:ALA:C	36:k5:166:ASN:HD22	2.17	0.41
5:a1:2:THR:OG1	21:i1:1199:A:OP1	2.19	0.40
6:c1:66:ARG:O	6:c1:67:ARG:C	2.63	0.40
8:f1:92:LYS:O	21:i1:1304:U:O4'	2.30	0.40
10:C1:77:SER:HA	10:C1:97:PHE:CE1	2.56	0.40
12:J1:38:ARG:HG2	12:J1:39:ASN:H	1.85	0.40
12:J1:177:ASN:O	12:J1:180:LYS:HG2	2.22	0.40
13:M1:22:LEU:HD12	13:M1:88:TRP:HB3	2.03	0.40
14:N1:16:LEU:HD22	21:i1:919:A:H5'	2.02	0.40
14:N1:101:HIS:NE2	14:N1:105:ASN:ND2	2.69	0.40
21:i1:30:C:O2'	21:i1:596:U:H5''	2.22	0.40
21:i1:52:G:OP2	8:f2:110:GLU:CD	2.61	0.40
21:i1:201:C:C5	21:i1:202:G:H1'	2.57	0.40
21:i1:338:G:H2'	21:i1:339:A:C8	2.56	0.40
21:i1:468:A:H2'	21:i1:469:A:O4'	2.21	0.40
21:i1:1208:A:H2'	21:i1:1209:A:C8	2.56	0.40
21:i1:1240:A:N3	31:P1:100:LYS:CG	2.83	0.40
21:i1:1359:U:H2'	21:i1:1360:U:C6	2.56	0.40
21:i1:1597:C:O2'	21:i1:1598:G:O4'	2.33	0.40
28:I1:86:SER:OG	28:I1:87:ASN:N	2.53	0.40
30:L1:125:ILE:CB	30:L1:146:THR:O	2.64	0.40
1:T2:14:PHE:CZ	1:T2:131:LEU:HD11	2.57	0.40
2:U2:116:ILE:HB	2:U2:117:ALA:H	1.72	0.40
4:X2:107:ARG:NH1	4:X2:110:HIS:HD2	2.19	0.40
9:g2:152:SER:HB2	9:g2:168:CYS:SG	2.60	0.40
9:g2:235:ILE:O	9:g2:252:THR:HA	2.21	0.40
10:C2:77:SER:HA	10:C2:97:PHE:CE1	2.56	0.40
10:C2:256:TRP:HB3	16:W2:68:ARG:NH1	2.36	0.40
21:i2:1136:U:H2'	21:i2:1137:U:C6	2.57	0.40
21:i2:1226:G:N1	21:i2:1639:G:OP2	2.51	0.40
21:i2:1458:G:C6	21:i2:1459:G:C5	3.09	0.40
21:i2:1521:C:C4	34:S2:137:LYS:CD	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i2:1748:G:C2	21:i2:1749:G:C1'	3.01	0.40
21:i2:1838:U:O2'	21:i2:1839:U:H5'	2.22	0.40
22:A2:72:ALA:HA	22:A2:95:GLY:O	2.21	0.40
23:B2:71:LEU:HB2	23:B2:82:ARG:HB2	2.03	0.40
25:E2:15:PRO:HD2	25:E2:18:TRP:CE3	2.57	0.40
27:H2:68:GLN:OE1	27:H2:68:GLN:N	2.54	0.40
28:I2:161:LEU:HD23	28:I2:196:GLU:HB3	2.03	0.40
30:L2:125:ILE:CG2	30:L2:146:THR:OG1	2.66	0.40
33:R2:14:ARG:HA	33:R2:17:ILE:HB	2.03	0.40
4:X3:107:ARG:NH1	4:X3:110:HIS:HD2	2.19	0.40
5:a3:35:ALA:O	5:a3:37:LYS:HG3	2.22	0.40
5:a3:101:PHE:CD1	5:a3:102:ARG:NH1	2.89	0.40
7:d3:12:ARG:O	7:d3:18:SER:OG	2.30	0.40
9:g3:157:SER:HA	9:g3:200:VAL:HG11	2.04	0.40
10:C3:183:LYS:HE3	16:W3:95:PRO:HA	2.03	0.40
12:J3:136:ARG:HB3	12:J3:141:VAL:HG12	2.03	0.40
14:N3:130:LYS:HZ1	14:N3:140:LYS:HD2	1.85	0.40
14:N3:133:ARG:HD2	30:L3:152:LYS:HD3	2.02	0.40
15:O3:49:GLY:O	21:i3:975:G:O2'	2.28	0.40
19:b3:67:THR:OG1	19:b3:68:GLY:N	2.51	0.40
21:i3:481:C:H5''	21:i3:482:G:OP2	2.21	0.40
21:i3:561:A:H2'	21:i3:562:U:O4'	2.22	0.40
21:i3:793:G:OP2	21:i3:793:G:H8	2.04	0.40
21:i3:1584:G:O4'	21:i3:1586:U:H4'	2.21	0.40
23:B3:197:ILE:HD11	23:B3:210:VAL:HG21	2.02	0.40
24:D3:140:GLY:HA3	24:D3:182:LEU:HB2	2.02	0.40
26:F3:96:ALA:O	26:F3:99:ILE:HG22	2.21	0.40
27:H3:145:ARG:HH11	27:H3:153:LEU:HD12	1.86	0.40
28:I3:203:LYS:HB2	28:I3:203:LYS:HE2	1.88	0.40
31:P3:34:MET:CE	31:P3:46:ASN:HB2	2.50	0.40
33:R3:106:LEU:O	33:R3:110:ASP:N	2.40	0.40
2:U4:19:ARG:CD	2:U4:119:ALA:HB3	2.32	0.40
8:f4:102:VAL:HG21	13:M4:36:ARG:HB2	2.03	0.40
9:g4:256:ILE:HD12	9:g4:270:LEU:HD13	2.03	0.40
14:N4:19:ARG:HB2	27:H4:138:GLU:OE2	2.22	0.40
21:i4:213:G:C2	21:i4:214:U:C5	3.09	0.40
21:i4:693:A:C8	21:i4:693:A:O5'	2.74	0.40
21:i4:1553:C:H4'	21:i4:1554:C:C5	2.56	0.40
21:i4:1755:C:C1'	21:i4:1777:G:H22	2.31	0.40
21:i4:1849:G:H5'	37:I4:146:ARG:HG2	2.02	0.40
23:B4:71:LEU:HB2	23:B4:82:ARG:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D4:137:VAL:HG22	24:D4:151:LYS:HG2	2.02	0.40
28:I4:86:SER:OG	28:I4:87:ASN:N	2.53	0.40
29:K4:31:LYS:HG2	29:K4:32:HIS:O	2.21	0.40
1:T5:37:VAL:HG21	21:i5:1567:G:O2'	2.22	0.40
3:V5:50:PHE:CE2	10:C5:267:GLN:NE2	2.85	0.40
3:V5:55:ILE:HD11	3:V5:69:ILE:HD11	2.03	0.40
12:J5:86:VAL:HG21	12:J5:105:PHE:CD1	2.56	0.40
14:N5:123:HIS:O	14:N5:127:ARG:NH1	2.54	0.40
18:Z5:111:ARG:C	18:Z5:113:THR:H	2.29	0.40
21:i5:141:A:N3	21:i5:143:U:H1'	2.36	0.40
21:i5:215:G:C8	21:i5:312:G:N1	2.88	0.40
21:i5:955:A:OP2	21:i5:955:A:H8	2.04	0.40
21:i5:1545:A:O2'	21:i5:1546:G:H8	2.04	0.40
21:i5:1592:C:H4'	32:Q5:44:PRO:HB2	2.02	0.40
21:i5:1828:C:C3'	37:I5:155:GLY:H	2.33	0.40
26:F5:35:LEU:HD12	26:F5:117:ILE:HD13	2.02	0.40
27:H5:54:GLY:HA3	27:H5:57:ARG:HH21	1.85	0.40
28:I5:161:LEU:HD23	28:I5:196:GLU:HB3	2.03	0.40
28:I5:178:ARG:O	28:I5:178:ARG:HG3	2.21	0.40
30:L5:68:ILE:HA	30:L5:130:GLU:O	2.21	0.40
32:Q5:86:GLN:HE22	32:Q5:122:ALA:HB2	1.86	0.40
34:S5:31:THR:HG23	34:S5:37:GLY:HA2	2.02	0.40
8:f6:80:ARG:HH21	21:i6:1503:C:H1'	1.76	0.40
9:g6:72:SER:OG	9:g6:115:SER:HA	2.21	0.40
9:g6:157:SER:HA	9:g6:200:VAL:HG11	2.03	0.40
10:C6:256:TRP:HB3	16:W6:68:ARG:NH1	2.36	0.40
13:M6:42:LEU:HD22	13:M6:110:VAL:HG22	2.03	0.40
14:N6:142:GLU:N	14:N6:145:THR:OG1	2.54	0.40
15:O6:51:GLU:OE2	23:B6:65:ARG:NH2	2.50	0.40
18:Z6:112:ASN:O	18:Z6:113:THR:OG1	2.33	0.40
19:b6:54:VAL:N	19:b6:62:VAL:HG23	2.36	0.40
21:i6:303:C:H5''	28:I6:75:LYS:HD3	2.01	0.40
21:i6:690:G:O6	21:i6:739:C:C2	2.74	0.40
21:i6:958:G:C6	21:i6:959:G:N1	2.89	0.40
21:i6:1545:A:O2'	21:i6:1546:G:H8	2.04	0.40
21:i6:1584:G:O4'	21:i6:1586:U:H4'	2.21	0.40
21:i6:1838:U:O2'	21:i6:1839:U:H5'	2.21	0.40
29:K6:31:LYS:HG2	29:K6:32:HIS:O	2.20	0.40
30:L6:68:ILE:HA	30:L6:130:GLU:O	2.21	0.40
36:k2:68:LEU:HD11	36:k2:178:LYS:O	2.22	0.40
36:k4:146:GLY:HA2	36:k4:167:ILE:CD1	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:k5:171:ASN:CA	36:k5:176:HIS:NE2	2.85	0.40
36:k6:35:GLY:O	36:k6:90:PHE:HE1	2.04	0.40
37:l2:187:ASP:HB3	37:l2:188:ASP:H	1.60	0.40
37:l4:136:THR:CG2	37:l4:137:PHE:CA	2.98	0.40
9:g1:124:SER:OG	9:g1:126:ASP:OD1	2.38	0.40
12:J1:114:VAL:HG13	12:J1:119:LEU:HD22	2.02	0.40
13:M1:27:ILE:HG21	29:K1:84:HIS:CG	2.56	0.40
14:N1:62:GLN:HB3	14:N1:65:PHE:CD2	2.56	0.40
15:O1:63:LYS:NZ	28:I3:158:ILE:HD11	2.35	0.40
15:O1:126:ILE:HG22	15:O1:127:GLY:N	2.37	0.40
21:i1:1176:G:H2'	21:i1:1177:U:O4'	2.21	0.40
21:i1:1442:U:C4	21:i1:1443:C:C4	3.10	0.40
24:D1:25:LEU:HD23	24:D1:37:VAL:HG11	2.02	0.40
25:E1:157:ASN:O	25:E1:175:PHE:HB2	2.22	0.40
25:E1:161:GLN:O	25:E1:169:ILE:HA	2.22	0.40
31:P1:64:LYS:HA	31:P1:73:PRO:HB3	2.01	0.40
8:f2:102:VAL:HG21	13:M2:36:ARG:HB2	2.03	0.40
11:G2:78:SER:OG	11:G2:79:LYS:N	2.53	0.40
11:G2:160:LYS:H	11:G2:172:LYS:HG2	1.85	0.40
17:Y2:20:ARG:HB3	17:Y2:76:TYR:CD1	2.55	0.40
19:b2:35:VAL:HG22	19:b2:37:CYS:H	1.87	0.40
21:i2:201:C:C5	21:i2:202:G:H1'	2.57	0.40
21:i2:1004:U:H2'	21:i2:1005:G:C8	2.57	0.40
21:i2:1240:A:N3	31:P2:100:LYS:CG	2.82	0.40
21:i2:1553:C:H4'	21:i2:1554:C:C5	2.55	0.40
22:A2:130:ASP:O	22:A2:133:PRO:HD2	2.21	0.40
24:D2:34:TYR:HA	24:D2:52:ALA:HB1	2.02	0.40
24:D2:106:ARG:HG3	24:D2:107:TYR:N	2.31	0.40
25:E2:157:ASN:O	25:E2:175:PHE:HB2	2.22	0.40
29:K2:19:GLY:N	29:K2:92:ALA:HB2	2.32	0.40
30:L2:37:TYR:CD2	30:L2:51:ILE:HG12	2.56	0.40
34:S2:16:LEU:HD21	34:S2:72:GLN:NE2	2.29	0.40
1:T3:37:VAL:HG21	21:i3:1567:G:O2'	2.21	0.40
4:X3:58:GLU:HG2	4:X3:66:ILE:HG12	2.03	0.40
7:d3:6:LEU:HA	7:d3:7:TYR:HA	1.76	0.40
8:f3:102:VAL:HG21	13:M3:36:ARG:HB2	2.03	0.40
10:C3:214:LEU:HD22	10:C3:219:ILE:HG13	2.03	0.40
13:M3:48:HIS:O	13:M3:74:ILE:HG23	2.20	0.40
13:M3:101:ARG:HG3	13:M3:102:LYS:H	1.86	0.40
15:O3:38:ASN:C	15:O3:69:SER:HB3	2.45	0.40
17:Y3:20:ARG:HB3	17:Y3:76:TYR:CD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Y3:35:VAL:HA	17:Y3:36:PRO:HD3	1.89	0.40
19:b3:10:PRO:HB2	19:b3:11:SER:H	1.65	0.40
19:b3:35:VAL:HG22	19:b3:37:CYS:H	1.86	0.40
21:i3:148:U:H2'	21:i3:149:A:C8	2.55	0.40
21:i3:558:G:O5'	21:i3:558:G:C8	2.70	0.40
21:i3:1522:A:N6	31:P3:131:PRO:CA	2.84	0.40
21:i3:1680:G:H2'	21:i3:1681:U:C6	2.55	0.40
21:i3:1755:C:H1'	21:i3:1777:G:N2	2.33	0.40
22:A3:123:VAL:HG12	22:A3:145:ILE:CG1	2.51	0.40
25:E3:157:ASN:O	25:E3:175:PHE:HB2	2.22	0.40
26:F3:121:PRO:O	26:F3:141:VAL:HG11	2.21	0.40
30:L3:68:ILE:HA	30:L3:130:GLU:O	2.21	0.40
4:X4:107:ARG:NH1	4:X4:110:HIS:HD2	2.19	0.40
6:c4:66:ARG:O	6:c4:67:ARG:C	2.64	0.40
9:g4:157:SER:HA	9:g4:200:VAL:HG11	2.04	0.40
10:C4:107:LEU:HB2	10:C4:127:PHE:HB2	2.02	0.40
12:J4:86:VAL:HG21	12:J4:105:PHE:CD1	2.57	0.40
14:N4:142:GLU:CB	14:N4:145:THR:OG1	2.67	0.40
16:W4:124:LYS:NZ	21:i4:863:U:O2	2.38	0.40
17:Y4:13:MET:O	17:Y4:22:GLN:N	2.47	0.40
21:i4:39:A:H61	21:i4:515:G:H1'	1.86	0.40
21:i4:72:C:O3'	21:i4:73:C:H2'	2.21	0.40
21:i4:291:G:H1'	21:i4:292:A:H5''	2.01	0.40
21:i4:1145:A:N6	21:i4:1150:A:H2	2.19	0.40
21:i4:1356:G:H2'	21:i4:1357:A:C8	2.56	0.40
21:i4:1838:U:O2'	21:i4:1839:U:H5'	2.21	0.40
25:E4:51:ARG:NH2	25:E4:109:PHE:O	2.53	0.40
26:F4:14:THR:HA	26:F4:15:PRO:HA	1.72	0.40
26:F4:121:PRO:O	26:F4:141:VAL:HG11	2.21	0.40
27:H4:68:GLN:N	27:H4:68:GLN:OE1	2.54	0.40
27:H4:91:HIS:CD2	27:H4:169:LYS:CB	3.04	0.40
27:H4:125:VAL:O	27:H4:129:ILE:HG13	2.21	0.40
31:P4:50:ARG:HD3	31:P4:50:ARG:HA	1.76	0.40
34:S4:125:HIS:CE1	34:S4:131:VAL:HG21	2.57	0.40
4:X5:107:ARG:NH1	4:X5:110:HIS:HD2	2.19	0.40
5:a5:53:ILE:HG12	15:O5:126:ILE:CD1	2.51	0.40
5:a5:101:PHE:HD2	5:a5:101:PHE:H	1.69	0.40
6:c5:66:ARG:O	6:c5:67:ARG:C	2.64	0.40
10:C5:165:VAL:HG12	10:C5:244:ILE:HB	2.02	0.40
13:M5:22:LEU:HD12	13:M5:88:TRP:HB3	2.03	0.40
13:M5:85:LEU:HB3	13:M5:106:CYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z5:51:ASP:N	18:Z5:54:THR:OG1	2.40	0.40
20:e5:25:LYS:CE	21:i5:554:A:OP1	2.68	0.40
21:i5:54:A:H3'	21:i5:451:G:H22	1.85	0.40
21:i5:659:G:O2'	21:i5:662:G:O3'	2.38	0.40
21:i5:818:A:H1'	21:i5:847:A:C5	2.57	0.40
21:i5:1544:C:H2'	21:i5:1545:A:H5''	2.03	0.40
21:i5:1648:G:H5''	32:Q5:125:ARG:HB3	2.03	0.40
21:i5:1689:C:HO3'	21:i5:1690:U:P	2.38	0.40
23:B5:143:THR:HB	23:B5:205:TYR:HE2	1.84	0.40
23:B5:167:LYS:NZ	23:B5:200:ALA:O	2.54	0.40
25:E5:15:PRO:HD2	25:E5:18:TRP:CE3	2.57	0.40
26:F5:121:PRO:O	26:F5:141:VAL:HG11	2.21	0.40
27:H5:81:ARG:O	27:H5:85:LYS:HD3	2.21	0.40
30:L5:37:TYR:CD2	30:L5:51:ILE:HG12	2.56	0.40
1:T6:14:PHE:CZ	1:T6:131:LEU:HD11	2.57	0.40
2:U6:61:LEU:HD21	24:D6:8:LYS:HG3	2.02	0.40
7:d6:12:ARG:O	7:d6:18:SER:OG	2.30	0.40
7:d6:40:ARG:HD2	21:i6:1256:G:C8	2.55	0.40
9:g6:256:ILE:HD12	9:g6:270:LEU:HD13	2.03	0.40
10:C6:214:LEU:HD22	10:C6:219:ILE:HG13	2.03	0.40
11:G6:67:VAL:N	11:G6:100:CYS:SG	2.90	0.40
12:J6:177:ASN:ND2	21:i6:560:A:OP1	2.54	0.40
13:M6:27:ILE:HG21	29:K6:84:HIS:CG	2.55	0.40
15:O6:28:PHE:HD2	15:O6:94:HIS:NE2	2.19	0.40
17:Y6:33:ALA:HB2	21:i6:582:C:O4'	2.21	0.40
21:i6:72:C:O3'	21:i6:73:C:H2'	2.21	0.40
21:i6:118:C:H1'	21:i6:445:A:C4	2.56	0.40
21:i6:793:G:H8	21:i6:793:G:OP2	2.05	0.40
21:i6:1332:A:H2'	24:D6:141:LYS:NZ	2.36	0.40
21:i6:1520:G:H5'	21:i6:1521:C:OP2	2.21	0.40
21:i6:1553:C:H4'	21:i6:1554:C:C5	2.56	0.40
23:B6:197:ILE:HD11	23:B6:210:VAL:HG21	2.02	0.40
26:F6:91:ARG:O	26:F6:95:HIS:ND1	2.55	0.40
26:F6:96:ALA:O	26:F6:99:ILE:HG22	2.21	0.40
26:F6:121:PRO:O	26:F6:141:VAL:HG11	2.20	0.40
31:P6:50:ARG:HA	31:P6:50:ARG:HD3	1.72	0.40
36:k1:86:HIS:CE1	36:k1:141:HIS:CG	3.07	0.40
36:k2:94:HIS:ND1	36:k2:135:MET:HG3	2.36	0.40
36:k4:10:ASN:CA	36:k4:56:HIS:CE1	2.79	0.40
36:k4:78:PHE:O	36:k4:131:ILE:HD13	2.21	0.40
36:k6:94:HIS:CD2	36:k6:135:MET:CG	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a1:99:PRO:HB3	21:i1:1868:U:C4	2.55	0.40
6:c1:6:VAL:HG13	6:c1:8:PRO:HD3	2.02	0.40
10:C1:272:HIS:C	10:C1:274:VAL:N	2.74	0.40
11:G1:68:LEU:O	11:G1:69:THR:OG1	2.28	0.40
13:M1:106:CYS:SG	21:i1:1284:A:C6	3.10	0.40
17:Y1:125:VAL:HG12	17:Y1:129:LYS:NZ	2.36	0.40
19:b1:36:LYS:CE	19:b1:80:ARG:HD2	2.51	0.40
21:i1:535:G:H22	21:i1:548:C:H42	1.67	0.40
21:i1:604:A:N3	21:i1:639:C:O2'	2.50	0.40
21:i1:878:G:H3'	21:i1:878:G:OP1	2.21	0.40
21:i1:1648:G:H5''	32:Q1:125:ARG:HB3	2.03	0.40
22:A1:97:THR:HA	22:A1:98:PRO:HD3	1.80	0.40
23:B1:138:PHE:CD2	23:B1:214:LYS:HB3	2.56	0.40
23:B1:167:LYS:NZ	23:B1:200:ALA:O	2.54	0.40
25:E1:15:PRO:HD2	25:E1:18:TRP:CE3	2.56	0.40
32:Q1:3:SER:O	32:Q1:4:LYS:HB3	2.20	0.40
32:Q1:32:ILE:HD11	32:Q1:63:PHE:CE1	2.56	0.40
4:X2:58:GLU:HG2	4:X2:66:ILE:HG12	2.03	0.40
11:G2:63:MET:HE1	11:G2:100:CYS:HA	2.02	0.40
11:G2:139:SER:O	11:G2:142:ARG:HB2	2.21	0.40
12:J2:177:ASN:O	12:J2:180:LYS:HG2	2.21	0.40
15:O2:28:PHE:HD2	15:O2:94:HIS:NE2	2.19	0.40
21:i2:54:A:H3'	21:i2:451:G:H22	1.85	0.40
21:i2:502:C:O4'	25:E2:66:MET:HG3	2.21	0.40
21:i2:689:U:C4	27:H2:122:LEU:HD21	2.56	0.40
21:i2:1204:A:HO2'	21:i2:1700:C:P	2.41	0.40
21:i2:1245:G:O2'	21:i2:1492:U:OP1	2.33	0.40
21:i2:1328:G:H1	21:i2:1501:C:N4	2.16	0.40
21:i2:1754:G:N3	21:i2:1754:G:H2'	2.35	0.40
21:i2:1785:C:OP2	21:i2:1785:C:H6	2.04	0.40
22:A2:210:ILE:C	22:A2:212:LYS:H	2.28	0.40
23:B2:158:HIS:O	23:B2:162:ARG:HG3	2.22	0.40
23:B2:180:ASP:O	23:B2:184:VAL:HG23	2.22	0.40
24:D2:121:GLY:O	24:D2:125:PHE:N	2.41	0.40
27:H2:21:SER:O	27:H2:25:GLN:HG3	2.22	0.40
27:H2:54:GLY:HA3	27:H2:57:ARG:HH21	1.85	0.40
1:T3:77:LYS:O	1:T3:78:ILE:HB	2.22	0.40
3:V3:66:ASP:OD2	22:A3:154:LEU:HD13	2.21	0.40
4:X3:114:ASP:OD2	21:i3:618:C:N4	2.52	0.40
9:g3:235:ILE:O	9:g3:252:THR:HA	2.22	0.40
10:C3:137:VAL:O	10:C3:162:ILE:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J3:86:VAL:HG21	12:J3:105:PHE:CD1	2.57	0.40
21:i3:30:C:O2'	21:i3:596:U:H5''	2.22	0.40
21:i3:317:C:H2'	21:i3:318:A:C8	2.56	0.40
21:i3:875:A:H2	21:i3:911:C:O2	2.05	0.40
21:i3:937:C:H2'	21:i3:938:A:C8	2.56	0.40
21:i3:1173:A:OP2	35:j3:14:LYS:HD3	2.22	0.40
21:i3:1349:G:H1	21:i3:1380:C:N4	2.19	0.40
21:i3:1356:G:H2'	21:i3:1357:A:C8	2.56	0.40
21:i3:1842:C:H3'	35:j3:4:LYS:CE	2.51	0.40
22:A3:167:GLY:O	22:A3:171:VAL:HG23	2.22	0.40
23:B3:138:PHE:CD2	23:B3:214:LYS:HB3	2.56	0.40
24:D3:58:VAL:HG23	24:D3:59:LEU:HD12	2.04	0.40
25:E3:161:GLN:O	25:E3:169:ILE:HA	2.21	0.40
28:I3:86:SER:OG	28:I3:87:ASN:N	2.53	0.40
28:I3:177:SER:OG	28:I3:184:ARG:O	2.30	0.40
30:L3:33:LEU:HD12	30:L3:33:LEU:O	2.22	0.40
34:S3:108:ARG:NH2	21:i6:1773:C:C4'	2.84	0.40
1:T4:37:VAL:HG21	21:i4:1567:G:O2'	2.22	0.40
8:f4:102:VAL:HG12	8:f4:102:VAL:O	2.20	0.40
9:g4:44:LYS:HG3	9:g4:55:PRO:O	2.21	0.40
9:g4:133:ASN:HB3	9:g4:135:LEU:HG	2.03	0.40
9:g4:157:SER:HA	9:g4:158:PRO:HD3	1.87	0.40
10:C4:137:VAL:O	10:C4:162:ILE:HA	2.21	0.40
10:C4:256:TRP:HB3	16:W4:68:ARG:NH1	2.36	0.40
11:G4:139:SER:O	11:G4:142:ARG:HB2	2.21	0.40
11:G4:146:ASN:O	11:G4:147:LEU:HB3	2.19	0.40
11:G4:216:ARG:HD2	11:G4:223:LYS:HD3	2.03	0.40
13:M4:37:GLU:HG2	21:i4:1312:G:OP2	2.22	0.40
14:N4:25:TRP:C	14:N4:27:LYS:H	2.29	0.40
14:N4:60:VAL:HG23	14:N4:66:VAL:HG21	2.03	0.40
14:N4:62:GLN:HB3	14:N4:65:PHE:CD2	2.57	0.40
14:N4:123:HIS:O	14:N4:127:ARG:NH1	2.54	0.40
16:W4:12:LYS:NZ	21:i4:1153:C:OP1	2.48	0.40
16:W4:28:ARG:HB3	16:W4:29:PRO:HD3	2.04	0.40
16:W4:51:GLU:OE1	27:H4:145:ARG:HB3	2.22	0.40
20:e4:48:THR:HA	20:e4:49:PHE:CB	2.29	0.40
21:i4:4:C:H2'	21:i4:5:U:C6	2.57	0.40
21:i4:141:A:N3	21:i4:143:U:H1'	2.36	0.40
21:i4:688:U:O4'	21:i4:689:U:OP2	2.38	0.40
21:i4:1145:A:H61	21:i4:1150:A:H2	1.70	0.40
21:i4:1465:A:OP1	33:R4:56:HIS:NE2	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i4:1629:C:OP1	34:S4:39:ARG:NE	2.54	0.40
23:B4:34:LYS:O	23:B4:98:THR:HG22	2.22	0.40
23:B4:37:ALA:O	23:B4:39:PHE:N	2.47	0.40
23:B4:180:ASP:O	23:B4:184:VAL:HG23	2.22	0.40
25:E4:15:PRO:HD2	25:E4:18:TRP:CE3	2.57	0.40
25:E4:120:LYS:HE3	25:E4:164:LEU:HD21	2.04	0.40
33:R4:6:THR:HG22	33:R4:8:THR:H	1.86	0.40
2:U5:21:ARG:HB3	2:U5:115:THR:HG21	2.02	0.40
3:V5:53:TYR:CE1	3:V5:72:LEU:HB3	2.56	0.40
5:a5:43:ASN:OD1	5:a5:66:LYS:NZ	2.47	0.40
11:G5:231:ARG:HA	11:G5:234:LEU:HD12	2.02	0.40
15:O5:84:ARG:HE	23:B5:25:PHE:HE2	1.68	0.40
16:W5:28:ARG:HB3	16:W5:29:PRO:HD3	2.04	0.40
21:i5:148:U:H2'	21:i5:149:A:C8	2.56	0.40
21:i5:533:A:N6	21:i5:552:G:H1'	2.35	0.40
21:i5:793:G:H8	21:i5:793:G:OP2	2.05	0.40
21:i5:958:G:C6	21:i5:959:G:N1	2.89	0.40
21:i5:1176:G:H2'	21:i5:1177:U:O4'	2.22	0.40
21:i5:1236:G:C5'	31:P5:133:ILE:CG1	2.95	0.40
21:i5:1356:G:H2'	21:i5:1357:A:C8	2.56	0.40
22:A5:184:ARG:HB3	22:A5:191:ARG:HH21	1.85	0.40
24:D5:61:GLU:OE1	24:D5:64:ARG:NH1	2.55	0.40
24:D5:146:ARG:HH11	24:D5:147:ALA:H	1.67	0.40
25:E5:157:ASN:O	25:E5:175:PHE:HB2	2.22	0.40
29:K5:26:ASP:H	29:K5:42:ASN:ND2	2.19	0.40
3:V6:53:TYR:CE1	3:V6:72:LEU:HB3	2.56	0.40
4:X6:40:PRO:HB3	4:X6:79:LYS:CE	2.52	0.40
9:g6:235:ILE:O	9:g6:252:THR:HA	2.22	0.40
10:C6:183:LYS:HE3	16:W6:95:PRO:HA	2.03	0.40
11:G6:180:VAL:HG22	21:i6:143:U:H5	1.83	0.40
12:J6:86:VAL:HG21	12:J6:105:PHE:CD1	2.56	0.40
12:J6:114:VAL:HG13	12:J6:119:LEU:HD22	2.03	0.40
13:M6:85:LEU:HB3	13:M6:106:CYS:O	2.21	0.40
14:N6:101:HIS:NE2	14:N6:105:ASN:ND2	2.69	0.40
17:Y6:50:THR:O	17:Y6:51:THR:OG1	2.26	0.40
18:Z6:77:LEU:HD23	18:Z6:78:LYS:H	1.85	0.40
18:Z6:91:LEU:HA	18:Z6:91:LEU:HD23	1.78	0.40
21:i6:318:A:C2	21:i6:333:G:C2	3.10	0.40
21:i6:643:A:H4'	21:i6:644:G:H5'	2.03	0.40
21:i6:744:G:O2'	27:H6:107:LYS:HA	2.21	0.40
21:i6:875:A:H2	21:i6:911:C:O2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i6:1103:C:H2'	21:i6:1104:G:H8	1.87	0.40
21:i6:1136:U:H2'	21:i6:1137:U:C6	2.56	0.40
21:i6:1606:G:H22	21:i6:1632:G:H2'	1.87	0.40
21:i6:1853:C:N4	35:j6:5:TRP:CH2	2.89	0.40
22:A6:201:LEU:HA	33:R6:85:VAL:HG11	2.03	0.40
23:B6:220:LYS:C	23:B6:222:LYS:H	2.28	0.40
24:D6:25:LEU:HD23	24:D6:37:VAL:HG11	2.02	0.40
25:E6:180:LEU:HD12	25:E6:228:ILE:HG13	2.02	0.40
25:E6:184:THR:HA	25:E6:189:LEU:HB2	2.02	0.40
27:H6:54:GLY:HA3	27:H6:57:ARG:HH21	1.85	0.40
33:R6:6:THR:HG22	33:R6:8:THR:H	1.86	0.40
36:k1:35:GLY:O	36:k1:90:PHE:HE1	2.04	0.40
36:k4:17:LEU:HD13	36:k4:25:ILE:HD12	2.03	0.40
37:l3:115:VAL:C	37:l3:116:THR:OG1	2.62	0.40
5:a1:35:ALA:O	5:a1:37:LYS:HG3	2.22	0.40
8:f1:93:HIS:CG	8:f1:94:LYS:N	2.90	0.40
9:g1:256:ILE:HD12	9:g1:270:LEU:HD22	2.03	0.40
10:C1:256:TRP:HB3	16:W1:68:ARG:NH1	2.36	0.40
10:C1:276:THR:C	10:C1:278:THR:H	2.29	0.40
12:J1:30:LYS:CB	20:e1:42:PHE:HE2	2.34	0.40
14:N1:143:SER:OG	14:N1:144:SER:N	2.53	0.40
17:Y1:21:LYS:HE2	17:Y1:23:MET:HE1	2.03	0.40
17:Y1:90:ARG:HA	17:Y1:93:ARG:HG2	2.02	0.40
18:Z1:111:ARG:C	18:Z1:113:THR:H	2.29	0.40
21:i1:123:G:O3'	25:E1:148:ARG:NH1	2.50	0.40
21:i1:561:A:C2	21:i1:562:U:H1'	2.56	0.40
21:i1:1356:G:H2'	21:i1:1357:A:C8	2.56	0.40
21:i1:1520:G:H5''	21:i1:1521:C:C5	2.57	0.40
21:i1:1521:C:C4	34:S1:137:LYS:CD	3.04	0.40
21:i1:1521:C:N3	34:S1:137:LYS:HG3	2.36	0.40
22:A1:25:LEU:HB2	22:A1:46:ILE:HG21	2.03	0.40
22:A1:215:GLN:C	22:A1:217:ALA:N	2.78	0.40
26:F1:36:GLN:C	26:F1:38:TYR:H	2.29	0.40
26:F1:70:GLU:O	26:F1:73:THR:OG1	2.30	0.40
27:H1:125:VAL:O	27:H1:129:ILE:HG13	2.21	0.40
30:L1:37:TYR:CD2	30:L1:51:ILE:HG12	2.56	0.40
31:P1:81:ARG:HB3	31:P1:117:GLY:CA	2.44	0.40
2:U2:19:ARG:CD	2:U2:119:ALA:HB3	2.33	0.40
10:C2:275:LYS:HB3	10:C2:275:LYS:HE3	1.99	0.40
15:O2:45:THR:HG22	15:O2:52:THR:HG22	2.04	0.40
15:O2:97:LEU:HD21	15:O2:112:ALA:HB1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W2:30:CYS:HB3	16:W2:59:GLY:H	1.85	0.40
21:i2:177:G:H2'	21:i2:313:A:H62	1.86	0.40
21:i2:350:C:O2'	21:i2:383:G:N1	2.54	0.40
21:i2:833:C:O2'	21:i2:834:C:OP1	2.27	0.40
21:i2:878:G:OP1	21:i2:878:G:H3'	2.21	0.40
21:i2:1145:A:N6	21:i2:1150:A:H2	2.20	0.40
21:i2:1176:G:H2'	21:i2:1177:U:O4'	2.22	0.40
21:i2:1592:C:H2'	21:i2:1593:C:C6	2.56	0.40
22:A2:103:PHE:CE1	22:A2:108:PHE:CE2	3.09	0.40
26:F2:33:ILE:O	26:F2:35:LEU:N	2.51	0.40
26:F2:91:ARG:O	26:F2:95:HIS:ND1	2.55	0.40
30:L2:68:ILE:HA	30:L2:130:GLU:O	2.20	0.40
34:S2:17:ASN:HD22	34:S2:101:ASN:ND2	2.09	0.40
1:T3:14:PHE:CZ	1:T3:131:LEU:HD11	2.57	0.40
3:V3:53:TYR:CE1	3:V3:72:LEU:HB3	2.56	0.40
8:f3:96:LYS:HZ1	21:i3:1306:U:C5'	2.29	0.40
11:G3:63:MET:HE1	11:G3:100:CYS:HA	2.02	0.40
15:O3:28:PHE:HD2	15:O3:94:HIS:NE2	2.19	0.40
17:Y3:90:ARG:HA	17:Y3:93:ARG:HG2	2.02	0.40
21:i3:55:U:OP1	21:i3:451:G:N1	2.43	0.40
21:i3:296:U:O2'	25:E3:130:PHE:O	2.24	0.40
21:i3:332:G:O5'	21:i3:332:G:H8	2.05	0.40
21:i3:629:A:C6	21:i3:632:C:C2	3.08	0.40
21:i3:735:C:C3'	21:i3:735:C:C6	3.05	0.40
21:i3:735:C:H6	21:i3:735:C:H3'	1.85	0.40
21:i3:878:G:OP1	21:i3:878:G:H3'	2.21	0.40
21:i3:1629:C:OP1	34:S3:39:ARG:NE	2.54	0.40
21:i3:1699:A:O5'	21:i3:1699:A:C8	2.75	0.40
21:i3:1753:C:H4'	21:i3:1780:G:N2	2.36	0.40
21:i3:1754:G:O6	21:i3:1779:G:C2	2.72	0.40
21:i3:1838:U:O2'	21:i3:1839:U:H5'	2.21	0.40
23:B3:167:LYS:NZ	23:B3:200:ALA:O	2.54	0.40
25:E3:151:ASP:HA	25:E3:152:PRO:HD3	1.95	0.40
27:H3:21:SER:O	27:H3:25:GLN:HG3	2.21	0.40
32:Q3:86:GLN:HE22	32:Q3:122:ALA:HB2	1.87	0.40
33:R3:74:GLN:C	33:R3:76:GLU:N	2.79	0.40
4:X4:40:PRO:HB3	4:X4:79:LYS:CE	2.52	0.40
8:f4:105:TYR:CE2	8:f4:131:PHE:CD2	2.97	0.40
9:g4:235:ILE:O	9:g4:252:THR:HA	2.22	0.40
14:N4:42:LYS:CD	14:N4:42:LYS:H	2.35	0.40
14:N4:101:HIS:NE2	14:N4:105:ASN:ND2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N4:114:ARG:O	14:N4:118:ILE:HG13	2.21	0.40
15:O4:28:PHE:HD2	15:O4:94:HIS:NE2	2.19	0.40
21:i4:306:C:H5'	21:i4:309:G:OP2	2.20	0.40
21:i4:464:A:OP2	21:i4:465:A:N6	2.51	0.40
21:i4:557:U:H6	21:i4:557:U:P	2.44	0.40
21:i4:1004:U:H2'	21:i4:1005:G:C8	2.57	0.40
21:i4:1458:G:C6	21:i4:1459:G:C5	3.09	0.40
22:A4:85:ARG:O	22:A4:89:LYS:HG2	2.22	0.40
25:E4:121:TYR:HB2	25:E4:161:GLN:HE21	1.87	0.40
25:E4:161:GLN:O	25:E4:169:ILE:HA	2.22	0.40
29:K4:26:ASP:H	29:K4:42:ASN:ND2	2.19	0.40
31:P4:57:LEU:CD2	31:P4:61:ARG:HH21	2.35	0.40
31:P4:116:LEU:HD22	31:P4:116:LEU:HA	1.88	0.40
32:Q4:60:LYS:O	32:Q4:64:ALA:N	2.55	0.40
1:T5:14:PHE:CZ	1:T5:131:LEU:HD11	2.56	0.40
1:T5:77:LYS:O	1:T5:78:ILE:HB	2.22	0.40
4:X5:40:PRO:HB3	4:X5:79:LYS:CE	2.52	0.40
4:X5:124:LYS:HA	4:X5:129:SER:HA	2.04	0.40
5:a5:100:ARG:HD2	5:a5:101:PHE:N	2.36	0.40
6:c5:6:VAL:HG13	6:c5:8:PRO:HD3	2.02	0.40
9:g5:172:LYS:HB3	9:g5:191:HIS:HB3	2.03	0.40
10:C5:68:ARG:HH11	10:C5:277:HIS:HB3	0.48	0.40
12:J5:158:ASP:OD1	12:J5:159:PHE:N	2.44	0.40
13:M5:38:ALA:HB1	13:M5:110:VAL:HG23	2.03	0.40
14:N5:19:ARG:HB2	27:H5:138:GLU:OE2	2.22	0.40
14:N5:114:ARG:O	14:N5:118:ILE:HG13	2.21	0.40
14:N5:142:GLU:N	14:N5:145:THR:OG1	2.54	0.40
15:O5:28:PHE:HA	15:O5:92:ALA:O	2.21	0.40
20:e5:45:VAL:O	20:e5:46:VAL:CB	2.70	0.40
21:i5:557:U:O2	21:i5:558:G:C5	2.74	0.40
21:i5:643:A:H4'	21:i5:644:G:H5'	2.03	0.40
21:i5:735:C:O2'	21:i5:736:C:OP1	2.36	0.40
21:i5:878:G:H3'	21:i5:878:G:OP1	2.21	0.40
21:i5:1145:A:N6	21:i5:1150:A:H2	2.20	0.40
21:i5:1332:A:H2'	24:D5:141:LYS:NZ	2.37	0.40
21:i5:1334:G:H4'	24:D5:183:GLY:H	1.86	0.40
21:i5:1359:U:H2'	21:i5:1360:U:C6	2.57	0.40
21:i5:1521:C:C4	34:S5:137:LYS:CD	3.04	0.40
21:i5:1551:U:C2	21:i5:1577:G:C6	3.10	0.40
21:i5:1553:C:H4'	21:i5:1554:C:C5	2.55	0.40
21:i5:1584:G:O4'	21:i5:1586:U:H4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:i5:1740:C:H2'	21:i5:1741:U:C6	2.56	0.40
21:i5:1755:C:H1'	21:i5:1777:G:N2	2.33	0.40
24:D5:162:ASP:N	24:D5:163:PRO:HD2	2.36	0.40
25:E5:180:LEU:HD12	25:E5:228:ILE:HG13	2.02	0.40
31:P5:112:ILE:H	31:P5:112:ILE:HG13	1.75	0.40
1:T6:37:VAL:HG21	21:i6:1567:G:O2'	2.22	0.40
2:U6:56:MET:HE1	21:i6:1580:A:C8	2.55	0.40
9:g6:59:LEU:HD21	9:g6:90:TRP:CE3	2.57	0.40
9:g6:143:GLN:HB3	9:g6:144:ASP:H	1.66	0.40
11:G6:139:SER:O	11:G6:142:ARG:HB2	2.21	0.40
12:J6:136:ARG:HB3	12:J6:141:VAL:HG12	2.03	0.40
13:M6:38:ALA:HB1	13:M6:110:VAL:HG23	2.03	0.40
21:i6:795:A:H62	27:H6:109:ARG:HH12	1.68	0.40
21:i6:937:C:H2'	21:i6:938:A:C8	2.57	0.40
21:i6:1442:U:C4	21:i6:1443:C:C4	3.10	0.40
21:i6:1521:C:C5	34:S6:137:LYS:CB	3.03	0.40
21:i6:1521:C:N3	34:S6:137:LYS:HG3	2.35	0.40
21:i6:1648:G:HO2'	21:i6:1674:G:H1	1.69	0.40
23:B6:180:ASP:O	23:B6:184:VAL:HG23	2.21	0.40
25:E6:161:GLN:O	25:E6:169:ILE:HA	2.22	0.40
27:H6:68:GLN:OE1	27:H6:68:GLN:N	2.54	0.40
29:K6:26:ASP:H	29:K6:42:ASN:ND2	2.19	0.40
30:L6:33:LEU:HD12	30:L6:33:LEU:O	2.22	0.40
31:P6:85:ILE:HD11	31:P6:116:LEU:HD23	2.02	0.40
33:R6:75:GLU:O	33:R6:79:GLU:OE1	2.40	0.40
36:k1:176:HIS:O	36:k1:178:LYS:N	2.54	0.40
36:k3:92:LEU:CD2	36:k3:93:PRO:HD2	2.41	0.40
37:l2:127:TYR:CG	37:l2:169:ASP:HB3	2.52	0.40
37:l2:142:LYS:CG	37:l2:146:ARG:HE	2.22	0.40
37:l4:174:ILE:CG2	37:l4:175:ILE:N	2.85	0.40
1:T1:89:PRO:HD2	21:i1:1665:G:H5''	2.03	0.40
8:f1:102:VAL:CG2	13:M1:36:ARG:HB2	2.52	0.40
11:G1:231:ARG:HA	11:G1:234:LEU:HD12	2.02	0.40
16:W1:28:ARG:HB3	16:W1:29:PRO:HD3	2.04	0.40
21:i1:1332:A:H2'	24:D1:141:LYS:NZ	2.36	0.40
21:i1:1349:G:H1	21:i1:1380:C:N4	2.19	0.40
23:B1:197:ILE:HD11	23:B1:210:VAL:HG21	2.02	0.40
28:I1:161:LEU:HD23	28:I1:196:GLU:HB3	2.03	0.40
34:S1:38:ARG:O	34:S1:42:HIS:ND1	2.51	0.40
3:V2:53:TYR:CE1	3:V2:72:LEU:HB3	2.56	0.40
3:V2:55:ILE:HD11	3:V2:69:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:d2:12:ARG:O	7:d2:18:SER:OG	2.30	0.40
9:g2:107:ASP:O	9:g2:124:SER:HB2	2.22	0.40
9:g2:147:HIS:HB3	9:g2:171:ASP:OD2	2.21	0.40
12:J2:86:VAL:HG21	12:J2:105:PHE:CD1	2.56	0.40
13:M2:85:LEU:HB3	13:M2:106:CYS:O	2.21	0.40
14:N2:123:HIS:O	14:N2:127:ARG:NH1	2.54	0.40
15:O2:126:ILE:HG22	15:O2:127:GLY:N	2.37	0.40
21:i2:187:G:N1	21:i2:213:G:C4	2.89	0.40
21:i2:691:G:C3'	21:i2:692:G:H5''	2.51	0.40
21:i2:1173:A:H2'	21:i2:1174:U:O4'	2.21	0.40
21:i2:1332:A:H2'	24:D2:141:LYS:NZ	2.37	0.40
22:A2:97:THR:HA	22:A2:98:PRO:HD3	1.79	0.40
22:A2:167:GLY:O	22:A2:171:VAL:HG23	2.22	0.40
24:D2:58:VAL:HG23	24:D2:59:LEU:HD12	2.04	0.40
24:D2:71:ALA:HB1	29:K2:20:VAL:HG21	2.02	0.40
26:F2:121:PRO:O	26:F2:141:VAL:HG11	2.21	0.40
32:Q2:3:SER:O	32:Q2:4:LYS:HB3	2.20	0.40
32:Q2:32:ILE:HD11	32:Q2:63:PHE:CE1	2.57	0.40
4:X3:40:PRO:HB3	4:X3:79:LYS:CE	2.51	0.40
6:c3:11:LEU:HB2	6:c3:36:ASP:HB2	2.03	0.40
9:g3:149:GLU:CD	9:g3:150:TRP:N	2.80	0.40
10:C3:77:SER:HA	10:C3:97:PHE:CE1	2.57	0.40
10:C3:168:GLY:N	10:C3:179:THR:O	2.32	0.40
10:C3:189:GLY:O	10:C3:190:SER:OG	2.31	0.40
10:C3:210:PRO:HD3	10:C3:236:PHE:CE2	2.56	0.40
10:C3:238:LYS:NZ	21:i3:1356:G:OP1	2.55	0.40
12:J3:3:VAL:HB	12:J3:5:ARG:CB	2.52	0.40
12:J3:37:LEU:HB3	12:J3:38:ARG:H	1.45	0.40
15:O3:45:THR:HG22	15:O3:52:THR:HG22	2.04	0.40
21:i3:4:C:H2'	21:i3:5:U:C6	2.57	0.40
21:i3:54:A:H3'	21:i3:451:G:H22	1.85	0.40
21:i3:177:G:H2'	21:i3:313:A:H62	1.86	0.40
21:i3:201:C:C5	21:i3:202:G:H1'	2.57	0.40
21:i3:744:G:O2'	27:H3:107:LYS:HA	2.21	0.40
21:i3:912:C:H4'	21:i3:913:A:OP2	2.22	0.40
21:i3:1332:A:H2'	24:D3:141:LYS:NZ	2.37	0.40
21:i3:1442:U:C4	21:i3:1443:C:C4	3.10	0.40
24:D3:99:ILE:O	24:D3:103:GLU:HG2	2.21	0.40
25:E3:184:THR:HA	25:E3:189:LEU:HB2	2.02	0.40
25:E3:229:GLY:N	25:E3:235:TRP:HB2	2.36	0.40
27:H3:54:GLY:HA3	27:H3:57:ARG:HH21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:H3:68:GLN:N	27:H3:68:GLN:OE1	2.54	0.40
34:S3:125:HIS:CE1	34:S3:131:VAL:HG21	2.57	0.40
1:T4:31:PRO:HG3	1:T4:102:ARG:HG2	2.04	0.40
3:V4:53:TYR:CE1	3:V4:72:LEU:HB3	2.56	0.40
8:f4:93:HIS:CG	8:f4:94:LYS:N	2.90	0.40
10:C4:165:VAL:HG12	10:C4:244:ILE:HB	2.02	0.40
11:G4:190:ARG:NH2	21:i4:332:G:C6	2.89	0.40
11:G4:220:ALA:O	11:G4:224:ARG:N	2.53	0.40
13:M4:27:ILE:HG21	29:K4:84:HIS:CG	2.55	0.40
13:M4:111:VAL:HG12	13:M4:114:TYR:CE1	2.50	0.40
15:O4:28:PHE:HD2	15:O4:94:HIS:CE1	2.40	0.40
17:Y4:125:VAL:HG12	17:Y4:129:LYS:NZ	2.36	0.40
21:i4:306:C:H5''	21:i4:307:G:C8	2.57	0.40
21:i4:1121:G:O2'	23:B4:204:ILE:O	2.37	0.40
21:i4:1236:G:C4'	31:P4:133:ILE:HB	2.50	0.40
21:i4:1237:C:H4'	31:P4:131:PRO:HA	2.02	0.40
21:i4:1359:U:H2'	21:i4:1360:U:C6	2.56	0.40
21:i4:1860:A:O2'	21:i4:1861:G:OP2	2.27	0.40
24:D4:154:ASP:OD1	24:D4:155:GLY:N	2.54	0.40
24:D4:170:THR:HG23	24:D4:186:VAL:O	2.22	0.40
26:F4:127:ARG:CB	26:F4:128:ILE:HG12	2.51	0.40
27:H4:81:ARG:O	27:H4:85:LYS:HD3	2.21	0.40
28:I4:129:LEU:O	28:I4:130:THR:OG1	2.34	0.40
33:R4:41:ILE:CD1	33:R4:47:ARG:HB2	2.52	0.40
3:V5:66:ASP:OD2	22:A5:154:LEU:HD13	2.21	0.40
4:X5:48:LYS:HZ3	21:i5:483:C:H5''	1.85	0.40
4:X5:88:ASP:HB3	21:i5:617:G:H4'	2.04	0.40
6:c5:11:LEU:HB2	6:c5:36:ASP:HB2	2.03	0.40
11:G5:145:PHE:CD1	11:G5:145:PHE:O	2.74	0.40
12:J5:71:LEU:C	12:J5:74:GLY:H	2.29	0.40
13:M5:42:LEU:HD22	13:M5:110:VAL:HG22	2.03	0.40
14:N5:38:TYR:OH	14:N5:74:ILE:CG1	2.69	0.40
14:N5:60:VAL:HG23	14:N5:66:VAL:HG21	2.03	0.40
18:Z5:66:LYS:HB2	18:Z5:111:ARG:HD2	2.01	0.40
21:i5:502:C:O4'	25:E5:66:MET:HG3	2.21	0.40
21:i5:1136:U:H2'	21:i5:1137:U:C6	2.57	0.40
21:i5:1838:U:O2'	21:i5:1839:U:H5'	2.21	0.40
23:B5:158:HIS:O	23:B5:162:ARG:HG3	2.22	0.40
24:D5:58:VAL:HG23	24:D5:59:LEU:HD12	2.04	0.40
24:D5:167:TYR:OH	24:D5:201:LYS:O	2.30	0.40
27:H5:21:SER:O	27:H5:25:GLN:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:L5:33:LEU:HD12	30:L5:33:LEU:O	2.22	0.40
32:Q5:32:ILE:HD11	32:Q5:63:PHE:CE1	2.57	0.40
4:X6:88:ASP:HB3	21:i6:617:G:H4'	2.04	0.40
8:f6:96:LYS:CB	21:i6:1307:U:H5	2.21	0.40
11:G6:160:LYS:H	11:G6:172:LYS:HG2	1.85	0.40
11:G6:231:ARG:HA	11:G6:234:LEU:HD12	2.02	0.40
14:N6:42:LYS:CD	14:N6:42:LYS:H	2.35	0.40
17:Y6:125:VAL:HG12	17:Y6:129:LYS:NZ	2.36	0.40
18:Z6:80:ARG:HG3	18:Z6:82:SER:H	1.87	0.40
18:Z6:82:SER:CB	21:i6:1598:G:C8	3.03	0.40
20:e6:36:MET:CE	21:i6:553:U:OP1	2.67	0.40
21:i6:12:U:H1'	21:i6:1357:A:C1'	2.52	0.40
21:i6:148:U:H2'	21:i6:149:A:C8	2.55	0.40
21:i6:338:G:H2'	21:i6:339:A:C8	2.57	0.40
21:i6:878:G:H3'	21:i6:878:G:OP1	2.22	0.40
21:i6:912:C:H4'	21:i6:913:A:OP2	2.22	0.40
21:i6:1769:C:O5'	21:i6:1771:G:N1	2.53	0.40
21:i6:1772:C:H5''	21:i6:1773:C:OP2	2.21	0.40
21:i6:1780:G:C6	21:i6:1781:A:N7	2.90	0.40
24:D6:106:ARG:HG3	24:D6:107:TYR:N	2.30	0.40
25:E6:191:ARG:NE	25:E6:245:ARG:HB3	2.35	0.40
27:H6:145:ARG:HD3	27:H6:155:LYS:HE3	2.04	0.40
29:K6:26:ASP:H	29:K6:42:ASN:HD21	1.69	0.40
31:P6:116:LEU:O	31:P6:120:SER:HB2	2.22	0.40
31:P6:121:ILE:CG2	31:P6:122:THR:H	2.34	0.40
32:Q6:32:ILE:HD11	32:Q6:63:PHE:CE1	2.57	0.40
33:R6:76:GLU:O	33:R6:80:ARG:HB2	2.21	0.40
34:S6:125:HIS:CE1	34:S6:131:VAL:HG21	2.57	0.40
36:k5:112:MET:HG2	36:k5:114:PRO:HD3	1.98	0.40
37:l1:127:TYR:O	37:l1:169:ASP:CA	2.43	0.40
37:l6:174:ILE:CG2	37:l6:175:ILE:N	2.85	0.40

All (109) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b1:81:ARG:CB	27:H4:35:ASP:O[2_545]	0.92	1.28
21:i2:1109:C:OP1	19:b3:41:TYR:CD2[2_555]	1.03	1.17
19:b5:41:TYR:OH	21:i6:1109:C:O4'[2_555]	1.05	1.15
27:H1:165:ASN:OD1	27:H4:164:ASN:N[2_545]	1.07	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:b5:41:TYR:OH	21:i6:1109:C:C4'[2_555]	1.09	1.11
19:b1:81:ARG:NH1	27:H4:34:SER:O[2_545]	1.10	1.10
21:i2:541:U:O4	1:T4:140:ALA:O[1_455]	1.20	1.00
21:i1:541:U:O4	1:T3:140:ALA:CB[1_454]	1.21	0.99
24:D2:56:GLN:CA	21:i4:1416:C:N4[1_455]	1.21	0.99
21:i2:1109:C:OP1	19:b3:41:TYR:CE2[2_555]	1.30	0.90
24:D2:56:GLN:OE1	21:i4:1418:C:C5'[1_455]	1.36	0.84
24:D2:87:TYR:CE1	21:i4:1414:A:OP1[1_455]	1.39	0.81
9:g3:184:LEU:CD2	21:i6:1438:A:O2'[1_655]	1.47	0.73
21:i5:1116:C:O4'	14:N6:24:THR:CG2[2_555]	1.49	0.71
21:i2:1109:C:P	19:b3:41:TYR:CE2[2_555]	1.51	0.69
24:D2:56:GLN:N	21:i4:1416:C:N4[1_455]	1.52	0.68
27:H1:165:ASN:N	27:H4:164:ASN:O[2_545]	1.53	0.67
19:b5:42:LYS:CE	21:i6:1110:G:OP1[2_555]	1.55	0.65
24:D2:56:GLN:CD	21:i4:1418:C:C5'[1_455]	1.56	0.64
24:D2:56:GLN:NE2	21:i4:1418:C:C5'[1_455]	1.58	0.62
27:H1:164:ASN:OD1	27:H4:168:HIS:NE2[2_545]	1.62	0.58
9:g4:184:LEU:CD2	21:i5:1438:A:O2'[1_656]	1.63	0.57
27:H1:82:GLU:OE2	27:H4:192:PHE:CD1[2_545]	1.66	0.54
14:N1:32:ASP:CA	19:b4:41:TYR:CD1[2_545]	1.67	0.53
33:R2:95:ILE:O	27:H3:78:ARG:NE[2_555]	1.67	0.53
21:i5:1116:C:OP1	14:N6:24:THR:O[2_555]	1.67	0.53
19:b1:41:TYR:CE1	14:N4:32:ASP:CA[2_545]	1.70	0.50
29:K1:97:SER:CB	1:T3:117:GLN:NE2[1_454]	1.71	0.49
14:N1:32:ASP:OD1	19:b4:42:LYS:CD[2_545]	1.72	0.48
14:N2:24:THR:CG2	21:i3:1116:C:O2'[2_555]	1.74	0.46
19:b1:41:TYR:CB	14:N4:29:THR:CG2[2_545]	1.75	0.45
19:b1:82:LYS:CE	27:H4:75:ILE:CG1[2_545]	1.75	0.45
27:H1:164:ASN:C	27:H4:164:ASN:O[2_545]	1.75	0.45
21:i2:1768:A:OP1	13:M3:129:LYS:O[1_454]	1.75	0.45
21:i2:1109:C:O5'	19:b3:41:TYR:CZ[2_555]	1.76	0.44
29:K2:98:ARG:NH2	21:i4:1432:U:C2'[1_455]	1.77	0.43
27:H1:165:ASN:OD1	27:H4:164:ASN:CB[2_545]	1.78	0.42
21:i5:1116:C:C4'	14:N6:24:THR:CG2[2_555]	1.80	0.40
27:H1:165:ASN:CA	27:H4:164:ASN:CB[2_545]	1.81	0.39
21:i2:541:U:C4	1:T4:140:ALA:O[1_455]	1.81	0.39
19:b1:79:PHE:O	27:H4:38:ALA:CB[2_545]	1.82	0.38
24:D1:56:GLN:NE2	21:i3:1417:C:O2'[1_454]	1.83	0.37
19:b1:81:ARG:CD	27:H4:35:ASP:CA[2_545]	1.85	0.35
19:b1:81:ARG:CB	27:H4:35:ASP:C[2_545]	1.85	0.35
19:b1:36:LYS:NZ	27:H4:74:LYS:NZ[2_545]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:H5:82:GLU:OE2	33:R6:91:LEU:CA[2_555]	1.87	0.33
14:N1:32:ASP:N	19:b4:41:TYR:CD1[2_545]	1.89	0.31
21:i1:541:U:N3	1:T3:2:PRO:CD[1_454]	1.90	0.30
27:H1:165:ASN:CG	27:H4:164:ASN:CA[2_545]	1.90	0.30
27:H1:165:ASN:CG	27:H4:164:ASN:C[2_545]	1.90	0.30
27:H1:165:ASN:CB	27:H4:164:ASN:CB[2_545]	1.91	0.29
21:i2:541:U:O4	1:T4:140:ALA:C[1_455]	1.91	0.29
24:D2:56:GLN:NE2	21:i4:1418:C:OP2[1_455]	1.91	0.29
27:H1:39:GLN:NE2	19:b4:80:ARG:CA[2_545]	1.92	0.28
19:b1:81:ARG:NH1	27:H4:34:SER:C[2_545]	1.93	0.27
9:g4:141:THR:O	21:i5:1437:C:O2[1_656]	1.94	0.26
19:b5:41:TYR:CZ	21:i6:1109:C:C4'[2_555]	1.95	0.25
24:D1:56:GLN:CD	21:i3:1417:C:O3'[1_454]	1.96	0.24
27:H1:165:ASN:CG	27:H4:164:ASN:CB[2_545]	1.96	0.24
21:i2:1109:C:OP2	19:b3:41:TYR:CE2[2_555]	1.96	0.24
19:b5:42:LYS:NZ	21:i6:1110:G:OP1[2_555]	1.96	0.24
19:b1:41:TYR:CE1	14:N4:32:ASP:N[2_545]	1.97	0.23
27:H1:165:ASN:ND2	27:H4:164:ASN:C[2_545]	1.97	0.23
33:R2:95:ILE:O	27:H3:78:ARG:CD[2_555]	1.97	0.23
9:g1:27:PHE:CE1	9:g6:183:LYS:CE[1_554]	2.00	0.20
21:i2:75:G:OP2	8:f3:116:ARG:NE[1_454]	2.00	0.20
21:i5:1116:C:OP1	14:N6:24:THR:C[2_555]	2.00	0.20
27:H5:33:ASN:OD1	33:R6:91:LEU:CD2[2_555]	2.00	0.20
9:g1:26:GLN:NE2	9:g6:178:ASN:OD1[1_554]	2.01	0.19
19:b5:41:TYR:OH	21:i6:1109:C:C5'[2_555]	2.01	0.19
19:b1:81:ARG:CA	27:H4:35:ASP:O[2_545]	2.02	0.18
24:D1:55:THR:OG1	21:i3:1418:C:OP1[1_454]	2.02	0.18
24:D1:56:GLN:NE2	21:i3:1417:C:O3'[1_454]	2.03	0.17
14:N1:35:GLU:CB	19:b4:41:TYR:OH[2_545]	2.04	0.16
19:b1:81:ARG:CZ	27:H4:34:SER:O[2_545]	2.04	0.16
27:H1:165:ASN:ND2	27:H4:165:ASN:N[2_545]	2.04	0.16
21:i2:1109:C:O5'	19:b3:41:TYR:OH[2_555]	2.05	0.15
27:H5:82:GLU:CG	33:R6:91:LEU:CD1[2_555]	2.05	0.15
19:b1:41:TYR:CZ	14:N4:32:ASP:CA[2_545]	2.06	0.14
9:g2:27:PHE:CE1	9:g5:183:LYS:CE[1_556]	2.06	0.14
29:K2:98:ARG:NH2	21:i4:1432:U:O2[1_455]	2.06	0.14
21:i5:1116:C:C5'	14:N6:24:THR:CG2[2_555]	2.06	0.14
19:b1:80:ARG:CG	27:H4:39:GLN:NE2[2_545]	2.07	0.13
19:b2:80:ARG:NH2	21:i3:1117:C:N4[2_555]	2.07	0.13
21:i2:75:G:O5'	8:f3:116:ARG:NH2[1_454]	2.07	0.13
27:H5:82:GLU:OE1	33:R6:91:LEU:CB[2_555]	2.07	0.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N1:32:ASP:CA	19:b4:41:TYR:CE1[2_545]	2.08	0.12
27:H1:39:GLN:CG	19:b4:82:LYS:CG[2_545]	2.08	0.12
24:D2:56:GLN:NE2	21:i4:1418:C:O5'[1_455]	2.09	0.11
14:N1:35:GLU:CG	19:b4:41:TYR:CZ[2_545]	2.10	0.10
19:b1:80:ARG:CG	27:H4:39:GLN:CD[2_545]	2.10	0.10
24:D2:87:TYR:OH	21:i4:1414:A:OP2[1_455]	2.10	0.10
27:H5:33:ASN:CG	33:R6:91:LEU:CD2[2_555]	2.10	0.10
9:g1:27:PHE:CG	9:g6:183:LYS:CE[1_554]	2.11	0.09
24:D2:55:THR:C	21:i4:1416:C:N4[1_455]	2.11	0.09
24:D2:87:TYR:CZ	21:i4:1414:A:OP1[1_455]	2.11	0.09
27:H1:82:GLU:OE2	27:H4:192:PHE:CG[2_545]	2.12	0.08
19:b2:82:LYS:CE	19:b3:75:GLU:CG[2_555]	2.12	0.08
21:i2:75:G:OP2	8:f3:116:ARG:CZ[1_454]	2.12	0.08
24:D1:56:GLN:NE2	21:i3:1417:C:C4'[1_454]	2.13	0.07
24:D1:56:GLN:NE2	21:i3:1417:C:C3'[1_454]	2.14	0.06
24:D2:56:GLN:CB	21:i4:1416:C:N4[1_455]	2.14	0.06
27:H1:164:ASN:CG	27:H4:168:HIS:CD2[2_545]	2.15	0.05
21:i2:1109:C:OP1	19:b3:41:TYR:CG[2_555]	2.15	0.05
27:H1:39:GLN:OE1	19:b4:82:LYS:CE[2_545]	2.16	0.04
21:i2:1109:C:P	19:b3:41:TYR:CZ[2_555]	2.16	0.04
14:N1:31:ASP:CB	19:b4:41:TYR:CB[2_545]	2.18	0.02
14:N1:35:GLU:CA	19:b4:41:TYR:OH[2_545]	2.18	0.02
27:H1:165:ASN:CG	27:H4:164:ASN:N[2_545]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	T1	141/145 (97%)	119 (84%)	15 (11%)	7 (5%)	1	15
1	T2	141/145 (97%)	119 (84%)	15 (11%)	7 (5%)	1	15
1	T3	141/145 (97%)	119 (84%)	16 (11%)	6 (4%)	2	17
1	T4	141/145 (97%)	119 (84%)	16 (11%)	6 (4%)	2	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	T5	141/145 (97%)	119 (84%)	15 (11%)	7 (5%)	1	15
1	T6	141/145 (97%)	119 (84%)	16 (11%)	6 (4%)	2	17
2	U1	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
2	U2	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
2	U3	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
2	U4	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
2	U5	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
2	U6	102/119 (86%)	84 (82%)	12 (12%)	6 (6%)	1	13
3	V1	81/83 (98%)	65 (80%)	11 (14%)	5 (6%)	1	12
3	V2	81/83 (98%)	66 (82%)	10 (12%)	5 (6%)	1	12
3	V3	81/83 (98%)	65 (80%)	11 (14%)	5 (6%)	1	12
3	V4	81/83 (98%)	65 (80%)	11 (14%)	5 (6%)	1	12
3	V5	81/83 (98%)	65 (80%)	11 (14%)	5 (6%)	1	12
3	V6	81/83 (98%)	65 (80%)	11 (14%)	5 (6%)	1	12
4	X1	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
4	X2	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
4	X3	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
4	X4	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
4	X5	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
4	X6	139/143 (97%)	114 (82%)	12 (9%)	13 (9%)	0	8
5	a1	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
5	a2	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
5	a3	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
5	a4	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
5	a5	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
5	a6	105/115 (91%)	73 (70%)	19 (18%)	13 (12%)	0	4
6	c1	62/69 (90%)	47 (76%)	9 (14%)	6 (10%)	0	7
6	c2	62/69 (90%)	47 (76%)	10 (16%)	5 (8%)	1	9
6	c3	62/69 (90%)	47 (76%)	10 (16%)	5 (8%)	1	9
6	c4	62/69 (90%)	47 (76%)	10 (16%)	5 (8%)	1	9
6	c5	62/69 (90%)	47 (76%)	9 (14%)	6 (10%)	0	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	c6	62/69 (90%)	47 (76%)	10 (16%)	5 (8%)	1	9
7	d1	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
7	d2	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
7	d3	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
7	d4	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
7	d5	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
7	d6	51/56 (91%)	44 (86%)	7 (14%)	0	100	100
8	f1	70/156 (45%)	56 (80%)	10 (14%)	4 (6%)	1	14
8	f2	70/156 (45%)	56 (80%)	10 (14%)	4 (6%)	1	14
8	f3	70/156 (45%)	56 (80%)	10 (14%)	4 (6%)	1	14
8	f4	70/156 (45%)	57 (81%)	9 (13%)	4 (6%)	1	14
8	f5	70/156 (45%)	56 (80%)	10 (14%)	4 (6%)	1	14
8	f6	70/156 (45%)	55 (79%)	11 (16%)	4 (6%)	1	14
9	g1	311/317 (98%)	237 (76%)	58 (19%)	16 (5%)	1	15
9	g2	311/317 (98%)	236 (76%)	59 (19%)	16 (5%)	1	15
9	g3	311/317 (98%)	236 (76%)	59 (19%)	16 (5%)	1	15
9	g4	311/317 (98%)	237 (76%)	58 (19%)	16 (5%)	1	15
9	g5	311/317 (98%)	237 (76%)	58 (19%)	16 (5%)	1	15
9	g6	311/317 (98%)	236 (76%)	59 (19%)	16 (5%)	1	15
10	C1	220/293 (75%)	182 (83%)	27 (12%)	11 (5%)	1	15
10	C2	220/293 (75%)	181 (82%)	28 (13%)	11 (5%)	1	15
10	C3	220/293 (75%)	182 (83%)	27 (12%)	11 (5%)	1	15
10	C4	220/293 (75%)	182 (83%)	27 (12%)	11 (5%)	1	15
10	C5	220/293 (75%)	182 (83%)	27 (12%)	11 (5%)	1	15
10	C6	220/293 (75%)	182 (83%)	27 (12%)	11 (5%)	1	15
11	G1	235/249 (94%)	194 (83%)	25 (11%)	16 (7%)	1	11
11	G2	235/249 (94%)	195 (83%)	24 (10%)	16 (7%)	1	11
11	G3	235/249 (94%)	194 (83%)	25 (11%)	16 (7%)	1	11
11	G4	235/249 (94%)	194 (83%)	26 (11%)	15 (6%)	1	12
11	G5	235/249 (94%)	194 (83%)	25 (11%)	16 (7%)	1	11
11	G6	235/249 (94%)	194 (83%)	25 (11%)	16 (7%)	1	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	J1	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
12	J2	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
12	J3	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
12	J4	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
12	J5	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
12	J6	183/194 (94%)	157 (86%)	16 (9%)	10 (6%)	1	14
13	M1	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
13	M2	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
13	M3	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
13	M4	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
13	M5	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
13	M6	121/132 (92%)	111 (92%)	8 (7%)	2 (2%)	7	36
14	N1	148/151 (98%)	125 (84%)	14 (10%)	9 (6%)	1	12
14	N2	148/151 (98%)	125 (84%)	14 (10%)	9 (6%)	1	12
14	N3	148/151 (98%)	124 (84%)	15 (10%)	9 (6%)	1	12
14	N4	148/151 (98%)	125 (84%)	14 (10%)	9 (6%)	1	12
14	N5	148/151 (98%)	124 (84%)	15 (10%)	9 (6%)	1	12
14	N6	148/151 (98%)	125 (84%)	13 (9%)	10 (7%)	1	11
15	O1	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
15	O2	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
15	O3	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
15	O4	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
15	O5	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
15	O6	138/151 (91%)	101 (73%)	24 (17%)	13 (9%)	0	8
16	W1	127/130 (98%)	109 (86%)	13 (10%)	5 (4%)	2	18
16	W2	127/130 (98%)	109 (86%)	13 (10%)	5 (4%)	2	18
16	W3	127/130 (98%)	108 (85%)	13 (10%)	6 (5%)	2	16
16	W4	127/130 (98%)	109 (86%)	13 (10%)	5 (4%)	2	18
16	W5	127/130 (98%)	109 (86%)	13 (10%)	5 (4%)	2	18
16	W6	127/130 (98%)	109 (86%)	13 (10%)	5 (4%)	2	18
17	Y1	129/133 (97%)	108 (84%)	16 (12%)	5 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	Y2	129/133 (97%)	109 (84%)	15 (12%)	5 (4%)	2	18
17	Y3	129/133 (97%)	109 (84%)	15 (12%)	5 (4%)	2	18
17	Y4	129/133 (97%)	109 (84%)	15 (12%)	5 (4%)	2	18
17	Y5	129/133 (97%)	109 (84%)	15 (12%)	5 (4%)	2	18
17	Y6	129/133 (97%)	108 (84%)	16 (12%)	5 (4%)	2	18
18	Z1	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
18	Z2	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
18	Z3	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
18	Z4	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
18	Z5	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
18	Z6	73/125 (58%)	54 (74%)	15 (20%)	4 (6%)	1	14
19	b1	81/84 (96%)	64 (79%)	12 (15%)	5 (6%)	1	12
19	b2	81/84 (96%)	67 (83%)	12 (15%)	2 (2%)	4	26
19	b3	81/84 (96%)	67 (83%)	11 (14%)	3 (4%)	2	19
19	b4	81/84 (96%)	65 (80%)	11 (14%)	5 (6%)	1	12
19	b5	81/84 (96%)	67 (83%)	10 (12%)	4 (5%)	1	15
19	b6	81/84 (96%)	67 (83%)	12 (15%)	2 (2%)	4	26
20	e1	56/133 (42%)	41 (73%)	11 (20%)	4 (7%)	1	10
20	e2	56/133 (42%)	37 (66%)	12 (21%)	7 (12%)	0	4
20	e3	56/133 (42%)	38 (68%)	12 (21%)	6 (11%)	0	6
20	e4	56/133 (42%)	35 (62%)	15 (27%)	6 (11%)	0	6
20	e5	56/133 (42%)	38 (68%)	11 (20%)	7 (12%)	0	4
20	e6	56/133 (42%)	38 (68%)	12 (21%)	6 (11%)	0	6
22	A1	220/295 (75%)	181 (82%)	31 (14%)	8 (4%)	2	20
22	A2	220/295 (75%)	180 (82%)	32 (14%)	8 (4%)	2	20
22	A3	220/295 (75%)	181 (82%)	31 (14%)	8 (4%)	2	20
22	A4	220/295 (75%)	181 (82%)	31 (14%)	8 (4%)	2	20
22	A5	220/295 (75%)	181 (82%)	31 (14%)	8 (4%)	2	20
22	A6	220/295 (75%)	181 (82%)	31 (14%)	8 (4%)	2	20
23	B1	212/264 (80%)	174 (82%)	31 (15%)	7 (3%)	3	21
23	B2	212/264 (80%)	174 (82%)	29 (14%)	9 (4%)	2	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	B3	212/264 (80%)	174 (82%)	30 (14%)	8 (4%)	2	19
23	B4	212/264 (80%)	174 (82%)	30 (14%)	8 (4%)	2	19
23	B5	212/264 (80%)	174 (82%)	30 (14%)	8 (4%)	2	19
23	B6	212/264 (80%)	174 (82%)	31 (15%)	7 (3%)	3	21
24	D1	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
24	D2	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
24	D3	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
24	D4	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
24	D5	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
24	D6	225/243 (93%)	183 (81%)	24 (11%)	18 (8%)	1	9
25	E1	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
25	E2	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
25	E3	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
25	E4	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
25	E5	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
25	E6	260/263 (99%)	215 (83%)	30 (12%)	15 (6%)	1	13
26	F1	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
26	F2	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
26	F3	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
26	F4	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
26	F5	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
26	F6	189/204 (93%)	144 (76%)	30 (16%)	15 (8%)	1	9
27	H1	187/194 (96%)	145 (78%)	28 (15%)	14 (8%)	1	10
27	H2	187/194 (96%)	145 (78%)	28 (15%)	14 (8%)	1	10
27	H3	187/194 (96%)	145 (78%)	28 (15%)	14 (8%)	1	10
27	H4	187/194 (96%)	146 (78%)	27 (14%)	14 (8%)	1	10
27	H5	187/194 (96%)	146 (78%)	27 (14%)	14 (8%)	1	10
27	H6	187/194 (96%)	146 (78%)	27 (14%)	14 (8%)	1	10
28	I1	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13
28	I2	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13
28	I3	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
28	I4	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13
28	I5	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13
28	I6	204/208 (98%)	168 (82%)	24 (12%)	12 (6%)	1	13
29	K1	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
29	K2	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
29	K3	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
29	K4	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
29	K5	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
29	K6	96/165 (58%)	76 (79%)	15 (16%)	5 (5%)	1	14
30	L1	151/158 (96%)	129 (85%)	11 (7%)	11 (7%)	1	10
30	L2	151/158 (96%)	125 (83%)	15 (10%)	11 (7%)	1	10
30	L3	151/158 (96%)	128 (85%)	14 (9%)	9 (6%)	1	13
30	L4	151/158 (96%)	127 (84%)	13 (9%)	11 (7%)	1	10
30	L5	151/158 (96%)	128 (85%)	14 (9%)	9 (6%)	1	13
30	L6	151/158 (96%)	126 (83%)	15 (10%)	10 (7%)	1	12
31	P1	123/145 (85%)	111 (90%)	6 (5%)	6 (5%)	1	15
31	P2	123/145 (85%)	111 (90%)	6 (5%)	6 (5%)	1	15
31	P3	123/145 (85%)	108 (88%)	11 (9%)	4 (3%)	3	21
31	P4	123/145 (85%)	111 (90%)	6 (5%)	6 (5%)	1	15
31	P5	123/145 (85%)	112 (91%)	6 (5%)	5 (4%)	2	17
31	P6	123/145 (85%)	111 (90%)	6 (5%)	6 (5%)	1	15
32	Q1	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
32	Q2	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
32	Q3	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
32	Q4	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
32	Q5	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
32	Q6	144/146 (99%)	112 (78%)	22 (15%)	10 (7%)	1	11
33	R1	130/135 (96%)	94 (72%)	25 (19%)	11 (8%)	0	9
33	R2	130/135 (96%)	95 (73%)	22 (17%)	13 (10%)	0	7
33	R3	130/135 (96%)	95 (73%)	24 (18%)	11 (8%)	0	9
33	R4	130/135 (96%)	97 (75%)	23 (18%)	10 (8%)	1	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	R5	130/135 (96%)	93 (72%)	26 (20%)	11 (8%)	0	9
33	R6	130/135 (96%)	93 (72%)	27 (21%)	10 (8%)	1	9
34	S1	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
34	S2	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
34	S3	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
34	S4	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
34	S5	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
34	S6	141/152 (93%)	135 (96%)	6 (4%)	0	100	100
35	j1	23/25 (92%)	23 (100%)	0	0	100	100
35	j2	23/25 (92%)	23 (100%)	0	0	100	100
35	j3	23/25 (92%)	23 (100%)	0	0	100	100
35	j4	23/25 (92%)	23 (100%)	0	0	100	100
35	j5	23/25 (92%)	23 (100%)	0	0	100	100
35	j6	23/25 (92%)	23 (100%)	0	0	100	100
36	k1	179/181 (99%)	162 (90%)	13 (7%)	4 (2%)	5	29
36	k2	179/181 (99%)	161 (90%)	16 (9%)	2 (1%)	11	46
36	k3	179/181 (99%)	164 (92%)	14 (8%)	1 (1%)	21	59
36	k4	179/181 (99%)	160 (89%)	17 (10%)	2 (1%)	11	46
36	k5	179/181 (99%)	164 (92%)	13 (7%)	2 (1%)	11	46
36	k6	179/181 (99%)	164 (92%)	13 (7%)	2 (1%)	11	46
37	l1	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
37	l2	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
37	l3	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
37	l4	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
37	l5	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
37	l6	77/198 (39%)	44 (57%)	24 (31%)	9 (12%)	0	4
All	All	30804/35724 (86%)	25074 (81%)	3953 (13%)	1777 (6%)	1	13

All (1777) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	T1	4	VAL
2	U1	50	VAL

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Mol	Chain	Res	Type
2	U1	103	SER
2	U1	107	GLU
2	U1	116	ILE
4	X1	35	ALA
5	a1	3	LYS
5	a1	101	PHE
5	a1	106	ALA
6	c1	67	ARG
8	f1	99	LYS
9	g1	55	PRO
9	g1	99	ARG
9	g1	102	VAL
9	g1	281	ALA
10	C1	262	THR
11	G1	107	SER
11	G1	122	PRO
11	G1	145	PHE
11	G1	150	GLU
12	J1	3	VAL
12	J1	8	VAL
12	J1	17	ARG
14	N1	24	THR
14	N1	146	ALA
16	W1	66	THR
19	b1	37	CYS
19	b1	38	PRO
20	e1	47	PRO
22	A1	125	THR
22	A1	208	GLU
23	B1	147	ASN
24	D1	3	VAL
24	D1	55	THR
24	D1	81	GLU
25	E1	76	VAL
25	E1	164	LEU
26	F1	15	PRO
26	F1	33	ILE
27	H1	66	VAL
27	H1	107	LYS
28	I1	130	THR
29	K1	3	MET
30	L1	8	ARG

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Mol	Chain	Res	Type
30	L1	116	CYS
31	P1	131	PRO
32	Q1	42	ILE
32	Q1	117	ARG
33	R1	42	PRO
33	R1	94	GLU
33	R1	131	PRO
1	T2	4	VAL
2	U2	50	VAL
2	U2	103	SER
2	U2	107	GLU
2	U2	116	ILE
4	X2	35	ALA
5	a2	3	LYS
5	a2	18	VAL
5	a2	101	PHE
5	a2	106	ALA
6	c2	67	ARG
8	f2	99	LYS
9	g2	55	PRO
9	g2	99	ARG
9	g2	102	VAL
9	g2	281	ALA
10	C2	262	THR
11	G2	107	SER
11	G2	122	PRO
11	G2	145	PHE
11	G2	150	GLU
12	J2	3	VAL
12	J2	8	VAL
12	J2	17	ARG
14	N2	24	THR
14	N2	146	ALA
16	W2	66	THR
22	A2	125	THR
22	A2	208	GLU
23	B2	147	ASN
24	D2	3	VAL
24	D2	55	THR
24	D2	81	GLU
25	E2	76	VAL
25	E2	164	LEU

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Mol	Chain	Res	Type
26	F2	15	PRO
26	F2	33	ILE
27	H2	66	VAL
27	H2	107	LYS
28	I2	130	THR
29	K2	3	MET
30	L2	8	ARG
30	L2	116	CYS
31	P2	131	PRO
31	P2	133	ILE
32	Q2	42	ILE
32	Q2	117	ARG
33	R2	42	PRO
33	R2	70	SER
33	R2	94	GLU
33	R2	131	PRO
1	T3	4	VAL
2	U3	50	VAL
2	U3	103	SER
2	U3	107	GLU
2	U3	116	ILE
4	X3	35	ALA
5	a3	3	LYS
5	a3	18	VAL
5	a3	101	PHE
5	a3	106	ALA
6	c3	67	ARG
8	f3	99	LYS
9	g3	55	PRO
9	g3	99	ARG
9	g3	102	VAL
9	g3	281	ALA
10	C3	262	THR
11	G3	107	SER
11	G3	122	PRO
11	G3	145	PHE
11	G3	150	GLU
12	J3	3	VAL
12	J3	8	VAL
12	J3	17	ARG
14	N3	24	THR
14	N3	146	ALA

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Mol	Chain	Res	Type
16	W3	66	THR
22	A3	125	THR
22	A3	208	GLU
23	B3	147	ASN
24	D3	3	VAL
24	D3	55	THR
24	D3	81	GLU
25	E3	76	VAL
25	E3	164	LEU
26	F3	15	PRO
26	F3	33	ILE
27	H3	66	VAL
27	H3	107	LYS
28	I3	130	THR
29	K3	3	MET
30	L3	8	ARG
30	L3	116	CYS
31	P3	16	THR
31	P3	131	PRO
31	P3	133	ILE
32	Q3	42	ILE
32	Q3	117	ARG
33	R3	42	PRO
33	R3	71	ILE
33	R3	94	GLU
33	R3	131	PRO
1	T4	4	VAL
2	U4	50	VAL
2	U4	103	SER
2	U4	107	GLU
2	U4	116	ILE
4	X4	35	ALA
5	a4	3	LYS
5	a4	18	VAL
5	a4	101	PHE
5	a4	106	ALA
6	c4	67	ARG
8	f4	99	LYS
9	g4	55	PRO
9	g4	99	ARG
9	g4	102	VAL
9	g4	281	ALA

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Mol	Chain	Res	Type
10	C4	262	THR
11	G4	107	SER
11	G4	122	PRO
11	G4	145	PHE
11	G4	150	GLU
12	J4	3	VAL
12	J4	8	VAL
12	J4	17	ARG
14	N4	24	THR
14	N4	146	ALA
16	W4	66	THR
19	b4	37	CYS
19	b4	38	PRO
22	A4	125	THR
22	A4	208	GLU
23	B4	147	ASN
24	D4	3	VAL
24	D4	55	THR
24	D4	81	GLU
25	E4	76	VAL
25	E4	164	LEU
26	F4	15	PRO
26	F4	33	ILE
27	H4	66	VAL
27	H4	107	LYS
28	I4	130	THR
29	K4	3	MET
30	L4	8	ARG
30	L4	116	CYS
31	P4	131	PRO
31	P4	133	ILE
32	Q4	42	ILE
32	Q4	117	ARG
33	R4	42	PRO
33	R4	94	GLU
33	R4	131	PRO
1	T5	4	VAL
2	U5	50	VAL
2	U5	103	SER
2	U5	107	GLU
2	U5	116	ILE
4	X5	35	ALA

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Mol	Chain	Res	Type
5	a5	3	LYS
5	a5	101	PHE
5	a5	106	ALA
6	c5	67	ARG
8	f5	99	LYS
9	g5	55	PRO
9	g5	99	ARG
9	g5	102	VAL
9	g5	281	ALA
10	C5	262	THR
11	G5	107	SER
11	G5	122	PRO
11	G5	145	PHE
11	G5	150	GLU
12	J5	3	VAL
12	J5	8	VAL
12	J5	17	ARG
14	N5	24	THR
14	N5	146	ALA
16	W5	66	THR
20	e5	47	PRO
20	e5	51	LYS
22	A5	125	THR
22	A5	208	GLU
23	B5	147	ASN
24	D5	3	VAL
24	D5	55	THR
24	D5	81	GLU
25	E5	76	VAL
25	E5	164	LEU
26	F5	15	PRO
26	F5	33	ILE
27	H5	66	VAL
27	H5	107	LYS
28	I5	130	THR
29	K5	3	MET
30	L5	8	ARG
30	L5	116	CYS
31	P5	131	PRO
31	P5	133	ILE
32	Q5	42	ILE
32	Q5	117	ARG

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Mol	Chain	Res	Type
33	R5	42	PRO
33	R5	74	GLN
33	R5	94	GLU
33	R5	131	PRO
1	T6	4	VAL
2	U6	50	VAL
2	U6	103	SER
2	U6	107	GLU
2	U6	116	ILE
4	X6	35	ALA
5	a6	3	LYS
5	a6	101	PHE
5	a6	106	ALA
6	c6	67	ARG
8	f6	99	LYS
9	g6	55	PRO
9	g6	99	ARG
9	g6	102	VAL
9	g6	281	ALA
10	C6	262	THR
11	G6	107	SER
11	G6	122	PRO
11	G6	145	PHE
11	G6	150	GLU
12	J6	3	VAL
12	J6	8	VAL
12	J6	17	ARG
14	N6	30	SER
14	N6	146	ALA
16	W6	66	THR
22	A6	125	THR
22	A6	208	GLU
23	B6	147	ASN
24	D6	3	VAL
24	D6	55	THR
24	D6	81	GLU
25	E6	76	VAL
25	E6	164	LEU
26	F6	15	PRO
26	F6	33	ILE
27	H6	66	VAL
27	H6	107	LYS

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Mol	Chain	Res	Type
28	I6	130	THR
29	K6	3	MET
30	L6	8	ARG
30	L6	116	CYS
31	P6	131	PRO
31	P6	133	ILE
32	Q6	42	ILE
32	Q6	117	ARG
33	R6	42	PRO
33	R6	78	ARG
33	R6	94	GLU
33	R6	131	PRO
36	k2	171	ASN
36	k5	168	HIS
37	l1	125	LYS
37	l1	151	LYS
37	l1	184	GLU
37	l1	185	VAL
37	l2	125	LYS
37	l2	151	LYS
37	l2	184	GLU
37	l2	185	VAL
37	l3	125	LYS
37	l3	151	LYS
37	l3	184	GLU
37	l3	185	VAL
37	l4	125	LYS
37	l4	151	LYS
37	l4	184	GLU
37	l4	185	VAL
37	l5	125	LYS
37	l5	151	LYS
37	l5	184	GLU
37	l5	185	VAL
37	l6	125	LYS
37	l6	151	LYS
37	l6	184	GLU
37	l6	185	VAL
1	T1	5	THR
1	T1	132	ASP
3	V1	9	VAL
3	V1	10	ASP

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Mol	Chain	Res	Type
3	V1	78	ILE
4	X1	10	ALA
5	a1	13	LYS
5	a1	18	VAL
5	a1	46	GLU
5	a1	89	ARG
6	c1	59	LEU
9	g1	15	ASN
9	g1	28	PRO
9	g1	56	GLN
9	g1	145	GLU
9	g1	261	LEU
10	C1	261	PHE
11	G1	12	CYS
11	G1	20	ASP
11	G1	25	ARG
11	G1	154	ARG
12	J1	37	LEU
12	J1	147	PHE
14	N1	3	ARG
14	N1	102	LEU
14	N1	147	SER
15	O1	48	SER
15	O1	126	ILE
15	O1	128	ARG
16	W1	5	ASN
17	Y1	34	THR
17	Y1	119	GLY
18	Z1	93	SER
19	b1	10	PRO
19	b1	45	THR
19	b1	75	GLU
20	e1	29	THR
22	A1	13	GLU
22	A1	31	ASP
22	A1	170	SER
22	A1	210	ILE
23	B1	37	ALA
23	B1	83	LYS
23	B1	190	PRO
24	D1	93	THR
24	D1	198	ILE

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Mol	Chain	Res	Type
25	E1	144	ALA
25	E1	214	ASN
26	F1	17	ILE
26	F1	48	TYR
26	F1	57	ALA
26	F1	202	SER
27	H1	34	SER
27	H1	115	LYS
28	I1	75	LYS
28	I1	122	GLY
28	I1	140	LYS
28	I1	143	LYS
28	I1	155	ASN
28	I1	186	ASP
31	P1	133	ILE
32	Q1	5	GLY
32	Q1	100	VAL
33	R1	73	LEU
33	R1	83	ASN
33	R1	119	VAL
1	T2	5	THR
1	T2	132	ASP
3	V2	9	VAL
3	V2	10	ASP
3	V2	78	ILE
4	X2	10	ALA
5	a2	13	LYS
5	a2	46	GLU
5	a2	89	ARG
6	c2	59	LEU
9	g2	15	ASN
9	g2	28	PRO
9	g2	56	GLN
9	g2	145	GLU
9	g2	261	LEU
10	C2	261	PHE
11	G2	12	CYS
11	G2	20	ASP
11	G2	25	ARG
11	G2	154	ARG
12	J2	37	LEU
12	J2	147	PHE

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Mol	Chain	Res	Type
14	N2	3	ARG
14	N2	102	LEU
14	N2	147	SER
15	O2	48	SER
15	O2	126	ILE
15	O2	128	ARG
16	W2	5	ASN
17	Y2	34	THR
17	Y2	119	GLY
18	Z2	93	SER
19	b2	10	PRO
19	b2	75	GLU
20	e2	3	HIS
20	e2	29	THR
20	e2	49	PHE
22	A2	13	GLU
22	A2	31	ASP
22	A2	170	SER
22	A2	210	ILE
23	B2	22	VAL
23	B2	37	ALA
23	B2	83	LYS
23	B2	190	PRO
24	D2	93	THR
24	D2	198	ILE
25	E2	144	ALA
25	E2	214	ASN
26	F2	17	ILE
26	F2	48	TYR
26	F2	57	ALA
26	F2	202	SER
27	H2	34	SER
27	H2	112	ASN
27	H2	115	LYS
28	I2	75	LYS
28	I2	122	GLY
28	I2	140	LYS
28	I2	143	LYS
28	I2	155	ASN
28	I2	186	ASP
32	Q2	5	GLY
32	Q2	100	VAL

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Mol	Chain	Res	Type
33	R2	71	ILE
33	R2	83	ASN
33	R2	119	VAL
1	T3	5	THR
1	T3	132	ASP
3	V3	9	VAL
3	V3	10	ASP
3	V3	78	ILE
4	X3	10	ALA
5	a3	13	LYS
5	a3	46	GLU
5	a3	89	ARG
6	c3	59	LEU
9	g3	15	ASN
9	g3	28	PRO
9	g3	56	GLN
9	g3	145	GLU
9	g3	261	LEU
10	C3	261	PHE
11	G3	12	CYS
11	G3	20	ASP
11	G3	25	ARG
11	G3	154	ARG
12	J3	37	LEU
12	J3	147	PHE
14	N3	3	ARG
14	N3	102	LEU
14	N3	147	SER
15	O3	48	SER
15	O3	126	ILE
15	O3	128	ARG
16	W3	5	ASN
17	Y3	34	THR
17	Y3	119	GLY
18	Z3	93	SER
19	b3	10	PRO
19	b3	75	GLU
20	e3	29	THR
20	e3	49	PHE
22	A3	13	GLU
22	A3	31	ASP
22	A3	170	SER

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Mol	Chain	Res	Type
22	A3	210	ILE
23	B3	22	VAL
23	B3	37	ALA
23	B3	83	LYS
23	B3	190	PRO
24	D3	93	THR
24	D3	198	ILE
25	E3	144	ALA
25	E3	214	ASN
26	F3	17	ILE
26	F3	48	TYR
26	F3	57	ALA
26	F3	202	SER
27	H3	34	SER
27	H3	115	LYS
28	I3	75	LYS
28	I3	122	GLY
28	I3	140	LYS
28	I3	143	LYS
28	I3	155	ASN
28	I3	186	ASP
32	Q3	5	GLY
32	Q3	100	VAL
33	R3	73	LEU
33	R3	83	ASN
33	R3	119	VAL
1	T4	5	THR
1	T4	132	ASP
3	V4	9	VAL
3	V4	10	ASP
3	V4	78	ILE
4	X4	10	ALA
5	a4	13	LYS
5	a4	46	GLU
5	a4	89	ARG
6	c4	59	LEU
9	g4	15	ASN
9	g4	28	PRO
9	g4	56	GLN
9	g4	145	GLU
9	g4	261	LEU
10	C4	261	PHE

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Mol	Chain	Res	Type
11	G4	12	CYS
11	G4	20	ASP
11	G4	25	ARG
11	G4	154	ARG
12	J4	37	LEU
12	J4	147	PHE
14	N4	3	ARG
14	N4	102	LEU
14	N4	147	SER
15	O4	48	SER
15	O4	126	ILE
15	O4	128	ARG
16	W4	5	ASN
17	Y4	34	THR
17	Y4	119	GLY
18	Z4	93	SER
19	b4	10	PRO
19	b4	75	GLU
20	e4	14	GLY
20	e4	29	THR
20	e4	49	PHE
22	A4	13	GLU
22	A4	31	ASP
22	A4	170	SER
22	A4	210	ILE
23	B4	22	VAL
23	B4	37	ALA
23	B4	83	LYS
23	B4	190	PRO
24	D4	93	THR
24	D4	198	ILE
25	E4	144	ALA
25	E4	214	ASN
26	F4	17	ILE
26	F4	48	TYR
26	F4	57	ALA
26	F4	202	SER
27	H4	34	SER
27	H4	112	ASN
27	H4	115	LYS
28	I4	75	LYS
28	I4	122	GLY

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Mol	Chain	Res	Type
28	I4	140	LYS
28	I4	143	LYS
28	I4	155	ASN
28	I4	186	ASP
32	Q4	5	GLY
32	Q4	100	VAL
33	R4	83	ASN
33	R4	119	VAL
1	T5	5	THR
1	T5	132	ASP
3	V5	9	VAL
3	V5	10	ASP
3	V5	78	ILE
4	X5	10	ALA
5	a5	13	LYS
5	a5	18	VAL
5	a5	46	GLU
5	a5	89	ARG
6	c5	59	LEU
9	g5	15	ASN
9	g5	28	PRO
9	g5	56	GLN
9	g5	145	GLU
9	g5	261	LEU
10	C5	261	PHE
11	G5	12	CYS
11	G5	20	ASP
11	G5	25	ARG
11	G5	154	ARG
12	J5	37	LEU
12	J5	147	PHE
14	N5	3	ARG
14	N5	102	LEU
14	N5	147	SER
15	O5	48	SER
15	O5	126	ILE
15	O5	128	ARG
16	W5	5	ASN
17	Y5	34	THR
17	Y5	119	GLY
18	Z5	93	SER
19	b5	10	PRO

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Mol	Chain	Res	Type
19	b5	75	GLU
20	e5	29	THR
20	e5	45	VAL
20	e5	46	VAL
22	A5	13	GLU
22	A5	31	ASP
22	A5	170	SER
22	A5	210	ILE
23	B5	22	VAL
23	B5	37	ALA
23	B5	83	LYS
23	B5	190	PRO
24	D5	93	THR
24	D5	198	ILE
25	E5	144	ALA
25	E5	214	ASN
26	F5	17	ILE
26	F5	48	TYR
26	F5	57	ALA
26	F5	202	SER
27	H5	34	SER
27	H5	115	LYS
28	I5	75	LYS
28	I5	122	GLY
28	I5	140	LYS
28	I5	143	LYS
28	I5	155	ASN
28	I5	186	ASP
31	P5	108	LYS
32	Q5	5	GLY
32	Q5	100	VAL
33	R5	83	ASN
33	R5	119	VAL
1	T6	5	THR
1	T6	132	ASP
3	V6	9	VAL
3	V6	10	ASP
3	V6	78	ILE
4	X6	10	ALA
5	a6	13	LYS
5	a6	18	VAL
5	a6	46	GLU

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Mol	Chain	Res	Type
5	a6	89	ARG
6	c6	59	LEU
9	g6	15	ASN
9	g6	28	PRO
9	g6	56	GLN
9	g6	145	GLU
9	g6	261	LEU
10	C6	261	PHE
11	G6	12	CYS
11	G6	20	ASP
11	G6	25	ARG
11	G6	154	ARG
12	J6	37	LEU
12	J6	147	PHE
14	N6	3	ARG
14	N6	29	THR
14	N6	102	LEU
14	N6	147	SER
15	O6	48	SER
15	O6	126	ILE
15	O6	128	ARG
16	W6	5	ASN
17	Y6	34	THR
17	Y6	119	GLY
18	Z6	93	SER
19	b6	10	PRO
19	b6	75	GLU
20	e6	29	THR
20	e6	49	PHE
22	A6	13	GLU
22	A6	31	ASP
22	A6	170	SER
22	A6	210	ILE
23	B6	37	ALA
23	B6	83	LYS
23	B6	190	PRO
24	D6	93	THR
24	D6	198	ILE
25	E6	144	ALA
25	E6	214	ASN
26	F6	17	ILE
26	F6	48	TYR

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Mol	Chain	Res	Type
26	F6	57	ALA
26	F6	139	VAL
26	F6	202	SER
27	H6	34	SER
27	H6	115	LYS
28	I6	75	LYS
28	I6	122	GLY
28	I6	140	LYS
28	I6	143	LYS
28	I6	155	ASN
28	I6	186	ASP
32	Q6	5	GLY
32	Q6	100	VAL
33	R6	83	ASN
33	R6	119	VAL
36	k1	93	PRO
36	k1	171	ASN
36	k3	171	ASN
36	k4	171	ASN
36	k5	171	ASN
1	T1	34	VAL
3	V1	36	VAL
4	X1	46	HIS
4	X1	64	SER
4	X1	77	ASN
4	X1	79	LYS
4	X1	109	GLY
4	X1	126	ALA
5	a1	5	ARG
5	a1	61	ALA
5	a1	102	ARG
6	c1	36	ASP
8	f1	100	LEU
9	g1	105	THR
9	g1	244	ASN
9	g1	246	TYR
10	C1	188	CYS
10	C1	226	ALA
10	C1	273	LEU
11	G1	175	LYS
11	G1	212	LEU
11	G1	213	LEU

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Mol	Chain	Res	Type
12	J1	119	LEU
12	J1	122	SER
13	M1	114	TYR
14	N1	12	SER
15	O1	65	ASP
15	O1	67	ASP
15	O1	68	GLU
15	O1	138	ASP
15	O1	140	THR
16	W1	93	LEU
17	Y1	3	ASP
18	Z1	112	ASN
22	A1	98	PRO
23	B1	76	ASN
24	D1	44	THR
24	D1	215	ASP
24	D1	216	GLU
25	E1	77	ARG
25	E1	93	ASP
25	E1	196	THR
25	E1	232	ASN
26	F1	42	LYS
26	F1	47	LYS
26	F1	85	LYS
26	F1	139	VAL
27	H1	112	ASN
27	H1	148	LEU
28	I1	86	SER
28	I1	132	GLU
28	I1	180	GLY
30	L1	3	ASP
30	L1	21	LYS
30	L1	33	LEU
30	L1	133	PRO
30	L1	152	LYS
31	P1	11	THR
32	Q1	6	PRO
32	Q1	48	GLN
32	Q1	56	LEU
32	Q1	101	ASP
32	Q1	145	TYR
1	T2	34	VAL

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Mol	Chain	Res	Type
3	V2	36	VAL
4	X2	46	HIS
4	X2	64	SER
4	X2	77	ASN
4	X2	79	LYS
4	X2	109	GLY
4	X2	126	ALA
5	a2	61	ALA
5	a2	102	ARG
6	c2	36	ASP
8	f2	100	LEU
9	g2	105	THR
9	g2	244	ASN
9	g2	246	TYR
10	C2	188	CYS
10	C2	226	ALA
10	C2	273	LEU
11	G2	175	LYS
11	G2	212	LEU
11	G2	213	LEU
12	J2	119	LEU
12	J2	122	SER
13	M2	114	TYR
14	N2	12	SER
15	O2	65	ASP
15	O2	67	ASP
15	O2	68	GLU
15	O2	138	ASP
15	O2	140	THR
16	W2	93	LEU
17	Y2	3	ASP
18	Z2	112	ASN
20	e2	6	LEU
20	e2	51	LYS
22	A2	98	PRO
23	B2	76	ASN
24	D2	44	THR
24	D2	215	ASP
24	D2	216	GLU
25	E2	77	ARG
25	E2	93	ASP
25	E2	196	THR

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Mol	Chain	Res	Type
25	E2	232	ASN
26	F2	42	LYS
26	F2	47	LYS
26	F2	85	LYS
26	F2	139	VAL
27	H2	148	LEU
28	I2	86	SER
28	I2	132	GLU
28	I2	180	GLY
30	L2	3	ASP
30	L2	21	LYS
30	L2	33	LEU
30	L2	133	PRO
30	L2	152	LYS
31	P2	11	THR
32	Q2	6	PRO
32	Q2	48	GLN
32	Q2	56	LEU
32	Q2	101	ASP
32	Q2	145	TYR
33	R2	73	LEU
33	R2	75	GLU
1	T3	34	VAL
3	V3	36	VAL
4	X3	46	HIS
4	X3	64	SER
4	X3	77	ASN
4	X3	79	LYS
4	X3	109	GLY
4	X3	126	ALA
5	a3	61	ALA
5	a3	102	ARG
6	c3	36	ASP
8	f3	100	LEU
9	g3	105	THR
9	g3	244	ASN
9	g3	246	TYR
10	C3	188	CYS
10	C3	226	ALA
10	C3	273	LEU
11	G3	175	LYS
11	G3	212	LEU

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Mol	Chain	Res	Type
11	G3	213	LEU
12	J3	119	LEU
12	J3	122	SER
13	M3	114	TYR
14	N3	12	SER
15	O3	65	ASP
15	O3	67	ASP
15	O3	68	GLU
15	O3	138	ASP
15	O3	140	THR
16	W3	93	LEU
16	W3	122	GLY
17	Y3	3	ASP
18	Z3	112	ASN
20	e3	51	LYS
22	A3	98	PRO
23	B3	76	ASN
24	D3	44	THR
24	D3	215	ASP
24	D3	216	GLU
25	E3	77	ARG
25	E3	93	ASP
25	E3	196	THR
25	E3	232	ASN
26	F3	42	LYS
26	F3	47	LYS
26	F3	85	LYS
26	F3	139	VAL
27	H3	112	ASN
27	H3	148	LEU
28	I3	86	SER
28	I3	132	GLU
28	I3	180	GLY
30	L3	3	ASP
30	L3	21	LYS
30	L3	33	LEU
30	L3	133	PRO
32	Q3	6	PRO
32	Q3	48	GLN
32	Q3	56	LEU
32	Q3	101	ASP
32	Q3	145	TYR

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Mol	Chain	Res	Type
1	T4	34	VAL
3	V4	36	VAL
4	X4	46	HIS
4	X4	64	SER
4	X4	77	ASN
4	X4	79	LYS
4	X4	109	GLY
4	X4	126	ALA
5	a4	61	ALA
5	a4	102	ARG
6	c4	36	ASP
8	f4	100	LEU
9	g4	105	THR
9	g4	244	ASN
9	g4	246	TYR
10	C4	188	CYS
10	C4	226	ALA
10	C4	273	LEU
11	G4	175	LYS
11	G4	212	LEU
11	G4	213	LEU
12	J4	119	LEU
12	J4	122	SER
13	M4	114	TYR
14	N4	12	SER
15	O4	65	ASP
15	O4	67	ASP
15	O4	68	GLU
15	O4	138	ASP
15	O4	140	THR
16	W4	93	LEU
17	Y4	3	ASP
18	Z4	112	ASN
20	e4	4	GLY
20	e4	51	LYS
22	A4	98	PRO
24	D4	44	THR
24	D4	215	ASP
24	D4	216	GLU
25	E4	77	ARG
25	E4	93	ASP
25	E4	196	THR

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Mol	Chain	Res	Type
25	E4	232	ASN
26	F4	42	LYS
26	F4	47	LYS
26	F4	85	LYS
26	F4	139	VAL
27	H4	148	LEU
28	I4	86	SER
28	I4	132	GLU
28	I4	180	GLY
30	L4	3	ASP
30	L4	21	LYS
30	L4	33	LEU
30	L4	133	PRO
30	L4	152	LYS
31	P4	11	THR
32	Q4	6	PRO
32	Q4	48	GLN
32	Q4	56	LEU
32	Q4	101	ASP
32	Q4	145	TYR
33	R4	73	LEU
1	T5	34	VAL
3	V5	36	VAL
4	X5	46	HIS
4	X5	64	SER
4	X5	77	ASN
4	X5	79	LYS
4	X5	109	GLY
4	X5	126	ALA
5	a5	61	ALA
5	a5	102	ARG
6	c5	36	ASP
8	f5	100	LEU
9	g5	105	THR
9	g5	244	ASN
9	g5	246	TYR
10	C5	188	CYS
10	C5	226	ALA
10	C5	273	LEU
11	G5	175	LYS
11	G5	212	LEU
11	G5	213	LEU

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Mol	Chain	Res	Type
12	J5	119	LEU
12	J5	122	SER
13	M5	114	TYR
14	N5	12	SER
15	O5	65	ASP
15	O5	68	GLU
15	O5	138	ASP
15	O5	140	THR
16	W5	93	LEU
17	Y5	3	ASP
18	Z5	112	ASN
22	A5	98	PRO
24	D5	44	THR
24	D5	215	ASP
24	D5	216	GLU
25	E5	77	ARG
25	E5	93	ASP
25	E5	196	THR
25	E5	232	ASN
26	F5	42	LYS
26	F5	47	LYS
26	F5	85	LYS
26	F5	139	VAL
27	H5	112	ASN
27	H5	148	LEU
28	I5	86	SER
28	I5	132	GLU
28	I5	180	GLY
30	L5	3	ASP
30	L5	21	LYS
30	L5	33	LEU
30	L5	133	PRO
32	Q5	6	PRO
32	Q5	48	GLN
32	Q5	56	LEU
32	Q5	101	ASP
32	Q5	145	TYR
33	R5	73	LEU
1	T6	34	VAL
3	V6	36	VAL
4	X6	46	HIS
4	X6	64	SER

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Mol	Chain	Res	Type
4	X6	77	ASN
4	X6	79	LYS
4	X6	109	GLY
4	X6	126	ALA
5	a6	61	ALA
5	a6	102	ARG
6	c6	36	ASP
8	f6	100	LEU
9	g6	105	THR
9	g6	244	ASN
9	g6	246	TYR
10	C6	188	CYS
10	C6	226	ALA
10	C6	273	LEU
11	G6	175	LYS
11	G6	212	LEU
11	G6	213	LEU
12	J6	119	LEU
12	J6	122	SER
13	M6	114	TYR
14	N6	12	SER
15	O6	65	ASP
15	O6	67	ASP
15	O6	68	GLU
15	O6	138	ASP
15	O6	140	THR
16	W6	93	LEU
17	Y6	3	ASP
18	Z6	112	ASN
20	e6	51	LYS
22	A6	98	PRO
23	B6	76	ASN
24	D6	44	THR
24	D6	215	ASP
24	D6	216	GLU
25	E6	77	ARG
25	E6	93	ASP
25	E6	196	THR
25	E6	232	ASN
26	F6	42	LYS
26	F6	47	LYS
26	F6	85	LYS

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Mol	Chain	Res	Type
27	H6	112	ASN
27	H6	148	LEU
28	I6	86	SER
28	I6	132	GLU
28	I6	180	GLY
30	L6	3	ASP
30	L6	21	LYS
30	L6	33	LEU
30	L6	133	PRO
30	L6	152	LYS
31	P6	11	THR
32	Q6	6	PRO
32	Q6	48	GLN
32	Q6	56	LEU
32	Q6	101	ASP
32	Q6	145	TYR
37	I1	116	THR
37	I1	117	ILE
37	I2	116	THR
37	I2	117	ILE
37	I3	116	THR
37	I3	117	ILE
37	I4	116	THR
37	I4	117	ILE
37	I5	116	THR
37	I5	117	ILE
37	I6	116	THR
37	I6	117	ILE
1	T1	6	VAL
2	U1	48	LEU
4	X1	9	THR
4	X1	87	ASN
4	X1	117	GLY
5	a1	62	TYR
5	a1	64	LEU
8	f1	96	LYS
9	g1	191	HIS
10	C1	85	SER
10	C1	134	ASN
10	C1	264	SER
10	C1	276	THR
11	G1	146	ASN

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Mol	Chain	Res	Type
11	G1	147	LEU
11	G1	152	ASP
12	J1	138	ARG
13	M1	117	GLU
14	N1	143	SER
15	O1	47	LEU
15	O1	129	ILE
16	W1	111	MET
17	Y1	51	THR
17	Y1	53	ASP
18	Z1	49	LEU
22	A1	4	ALA
23	B1	86	LEU
23	B1	223	PHE
24	D1	83	SER
24	D1	153	VAL
24	D1	206	ASP
24	D1	222	PRO
24	D1	223	ILE
25	E1	131	VAL
25	E1	168	LYS
26	F1	138	ALA
27	H1	12	ASN
27	H1	38	ALA
27	H1	138	GLU
27	H1	162	GLN
29	K1	39	ASN
29	K1	41	PRO
29	K1	91	PRO
30	L1	4	ILE
30	L1	6	THR
30	L1	150	GLY
31	P1	16	THR
32	Q1	144	SER
33	R1	80	ARG
1	T2	6	VAL
2	U2	48	LEU
4	X2	9	THR
4	X2	87	ASN
4	X2	117	GLY
5	a2	5	ARG
5	a2	62	TYR

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Mol	Chain	Res	Type
5	a2	64	LEU
8	f2	96	LYS
9	g2	191	HIS
10	C2	85	SER
10	C2	134	ASN
10	C2	264	SER
10	C2	276	THR
11	G2	146	ASN
11	G2	147	LEU
11	G2	152	ASP
12	J2	138	ARG
13	M2	117	GLU
14	N2	143	SER
15	O2	47	LEU
15	O2	129	ILE
16	W2	111	MET
17	Y2	51	THR
17	Y2	53	ASP
18	Z2	49	LEU
22	A2	4	ALA
23	B2	86	LEU
23	B2	223	PHE
24	D2	153	VAL
24	D2	206	ASP
24	D2	222	PRO
24	D2	223	ILE
25	E2	131	VAL
25	E2	168	LYS
26	F2	138	ALA
27	H2	12	ASN
27	H2	38	ALA
27	H2	138	GLU
27	H2	162	GLN
29	K2	39	ASN
29	K2	41	PRO
29	K2	91	PRO
30	L2	4	ILE
30	L2	6	THR
30	L2	148	ALA
31	P2	16	THR
32	Q2	144	SER
33	R2	80	ARG

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Mol	Chain	Res	Type
1	T3	6	VAL
2	U3	48	LEU
4	X3	9	THR
4	X3	87	ASN
4	X3	117	GLY
5	a3	5	ARG
5	a3	62	TYR
5	a3	64	LEU
8	f3	96	LYS
9	g3	191	HIS
10	C3	85	SER
10	C3	134	ASN
10	C3	264	SER
10	C3	276	THR
11	G3	146	ASN
11	G3	147	LEU
11	G3	152	ASP
12	J3	138	ARG
13	M3	117	GLU
14	N3	143	SER
15	O3	47	LEU
15	O3	129	ILE
16	W3	3	ARG
16	W3	111	MET
17	Y3	51	THR
17	Y3	53	ASP
18	Z3	49	LEU
22	A3	4	ALA
23	B3	86	LEU
23	B3	223	PHE
24	D3	153	VAL
24	D3	206	ASP
24	D3	222	PRO
24	D3	223	ILE
25	E3	68	ARG
25	E3	131	VAL
26	F3	138	ALA
27	H3	12	ASN
27	H3	38	ALA
27	H3	138	GLU
27	H3	162	GLN
29	K3	39	ASN

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Mol	Chain	Res	Type
29	K3	41	PRO
29	K3	91	PRO
30	L3	4	ILE
30	L3	6	THR
32	Q3	144	SER
33	R3	80	ARG
1	T4	6	VAL
2	U4	48	LEU
4	X4	9	THR
4	X4	87	ASN
4	X4	117	GLY
5	a4	5	ARG
5	a4	62	TYR
5	a4	64	LEU
8	f4	96	LYS
9	g4	191	HIS
10	C4	85	SER
10	C4	134	ASN
10	C4	264	SER
10	C4	276	THR
11	G4	146	ASN
11	G4	147	LEU
11	G4	152	ASP
12	J4	138	ARG
13	M4	117	GLU
14	N4	143	SER
15	O4	47	LEU
15	O4	129	ILE
16	W4	3	ARG
16	W4	111	MET
17	Y4	51	THR
17	Y4	53	ASP
18	Z4	49	LEU
22	A4	4	ALA
23	B4	76	ASN
23	B4	86	LEU
23	B4	223	PHE
24	D4	83	SER
24	D4	153	VAL
24	D4	206	ASP
24	D4	222	PRO
24	D4	223	ILE

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Mol	Chain	Res	Type
25	E4	131	VAL
26	F4	138	ALA
27	H4	12	ASN
27	H4	38	ALA
27	H4	138	GLU
29	K4	39	ASN
29	K4	41	PRO
29	K4	91	PRO
30	L4	4	ILE
30	L4	6	THR
31	P4	16	THR
32	Q4	144	SER
33	R4	80	ARG
33	R4	110	ASP
1	T5	6	VAL
2	U5	48	LEU
4	X5	9	THR
4	X5	87	ASN
4	X5	117	GLY
5	a5	5	ARG
5	a5	62	TYR
5	a5	64	LEU
8	f5	96	LYS
9	g5	191	HIS
10	C5	85	SER
10	C5	134	ASN
10	C5	264	SER
10	C5	276	THR
11	G5	146	ASN
11	G5	147	LEU
11	G5	152	ASP
12	J5	138	ARG
13	M5	117	GLU
14	N5	143	SER
15	O5	47	LEU
15	O5	67	ASP
15	O5	129	ILE
16	W5	111	MET
17	Y5	51	THR
17	Y5	53	ASP
18	Z5	49	LEU
22	A5	4	ALA

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Mol	Chain	Res	Type
23	B5	76	ASN
23	B5	86	LEU
23	B5	223	PHE
24	D5	153	VAL
24	D5	206	ASP
24	D5	222	PRO
24	D5	223	ILE
25	E5	68	ARG
25	E5	131	VAL
26	F5	138	ALA
27	H5	12	ASN
27	H5	38	ALA
27	H5	138	GLU
27	H5	162	GLN
29	K5	39	ASN
29	K5	41	PRO
29	K5	91	PRO
30	L5	4	ILE
30	L5	6	THR
32	Q5	144	SER
33	R5	80	ARG
33	R5	110	ASP
1	T6	6	VAL
2	U6	48	LEU
4	X6	9	THR
4	X6	87	ASN
4	X6	117	GLY
5	a6	5	ARG
5	a6	62	TYR
5	a6	64	LEU
8	f6	96	LYS
9	g6	191	HIS
10	C6	85	SER
10	C6	134	ASN
10	C6	264	SER
10	C6	276	THR
11	G6	146	ASN
11	G6	147	LEU
11	G6	152	ASP
12	J6	138	ARG
13	M6	117	GLU
14	N6	143	SER

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Mol	Chain	Res	Type
15	O6	47	LEU
15	O6	129	ILE
16	W6	3	ARG
16	W6	111	MET
17	Y6	51	THR
17	Y6	53	ASP
18	Z6	49	LEU
22	A6	4	ALA
23	B6	86	LEU
23	B6	223	PHE
24	D6	153	VAL
24	D6	206	ASP
24	D6	222	PRO
24	D6	223	ILE
25	E6	68	ARG
25	E6	131	VAL
25	E6	168	LYS
26	F6	138	ALA
27	H6	12	ASN
27	H6	38	ALA
27	H6	138	GLU
27	H6	162	GLN
29	K6	39	ASN
29	K6	41	PRO
29	K6	91	PRO
30	L6	4	ILE
30	L6	6	THR
31	P6	16	THR
32	Q6	144	SER
33	R6	80	ARG
33	R6	110	ASP
36	k6	93	PRO
2	U1	98	VAL
3	V1	45	ARG
4	X1	54	LYS
4	X1	127	ASN
8	f1	93	HIS
10	C1	176	LYS
11	G1	105	ASN
12	J1	76	ALA
14	N1	8	GLY
15	O1	56	VAL

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Mol	Chain	Res	Type
15	O1	112	ALA
15	O1	134	PRO
16	W1	3	ARG
18	Z1	108	ILE
20	e1	4	GLY
20	e1	14	GLY
24	D1	68	GLU
24	D1	220	THR
25	E1	30	ARG
25	E1	68	ARG
25	E1	69	PHE
25	E1	245	ARG
26	F1	20	PHE
26	F1	32	ASP
27	H1	89	GLY
27	H1	99	ARG
27	H1	100	ILE
29	K1	92	ALA
31	P1	15	PHE
33	R1	65	PRO
33	R1	110	ASP
2	U2	98	VAL
3	V2	45	ARG
4	X2	54	LYS
4	X2	127	ASN
8	f2	93	HIS
10	C2	176	LYS
11	G2	105	ASN
14	N2	8	GLY
15	O2	56	VAL
15	O2	112	ALA
15	O2	134	PRO
16	W2	3	ARG
18	Z2	108	ILE
20	e2	14	GLY
20	e2	48	THR
24	D2	68	GLU
24	D2	83	SER
24	D2	220	THR
25	E2	30	ARG
25	E2	68	ARG
25	E2	69	PHE

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Mol	Chain	Res	Type
25	E2	245	ARG
26	F2	20	PHE
26	F2	32	ASP
27	H2	89	GLY
27	H2	99	ARG
27	H2	100	ILE
29	K2	92	ALA
31	P2	15	PHE
33	R2	110	ASP
2	U3	98	VAL
3	V3	45	ARG
4	X3	54	LYS
4	X3	127	ASN
8	f3	93	HIS
10	C3	176	LYS
11	G3	105	ASN
12	J3	76	ALA
14	N3	8	GLY
15	O3	56	VAL
15	O3	112	ALA
15	O3	134	PRO
18	Z3	108	ILE
20	e3	4	GLY
20	e3	14	GLY
20	e3	48	THR
24	D3	68	GLU
24	D3	83	SER
24	D3	220	THR
25	E3	30	ARG
25	E3	69	PHE
25	E3	168	LYS
25	E3	245	ARG
26	F3	20	PHE
26	F3	32	ASP
27	H3	89	GLY
27	H3	100	ILE
33	R3	110	ASP
2	U4	98	VAL
3	V4	45	ARG
4	X4	54	LYS
4	X4	127	ASN
8	f4	93	HIS

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Mol	Chain	Res	Type
10	C4	176	LYS
11	G4	105	ASN
12	J4	76	ALA
14	N4	8	GLY
15	O4	56	VAL
15	O4	134	PRO
18	Z4	108	ILE
20	e4	48	THR
24	D4	68	GLU
24	D4	220	THR
25	E4	30	ARG
25	E4	68	ARG
25	E4	69	PHE
25	E4	168	LYS
25	E4	245	ARG
26	F4	20	PHE
26	F4	32	ASP
27	H4	89	GLY
27	H4	99	ARG
27	H4	100	ILE
29	K4	92	ALA
30	L4	148	ALA
31	P4	15	PHE
2	U5	98	VAL
3	V5	45	ARG
4	X5	54	LYS
4	X5	127	ASN
8	f5	93	HIS
10	C5	176	LYS
11	G5	105	ASN
12	J5	76	ALA
14	N5	8	GLY
15	O5	56	VAL
15	O5	112	ALA
15	O5	134	PRO
16	W5	3	ARG
18	Z5	108	ILE
20	e5	4	GLY
20	e5	14	GLY
24	D5	68	GLU
24	D5	83	SER
24	D5	220	THR

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Mol	Chain	Res	Type
25	E5	30	ARG
25	E5	69	PHE
25	E5	168	LYS
25	E5	245	ARG
26	F5	20	PHE
26	F5	32	ASP
27	H5	89	GLY
27	H5	99	ARG
27	H5	100	ILE
2	U6	98	VAL
3	V6	45	ARG
4	X6	54	LYS
4	X6	127	ASN
8	f6	93	HIS
10	C6	176	LYS
11	G6	105	ASN
14	N6	8	GLY
15	O6	56	VAL
15	O6	112	ALA
15	O6	134	PRO
18	Z6	108	ILE
20	e6	4	GLY
20	e6	14	GLY
20	e6	48	THR
24	D6	68	GLU
24	D6	83	SER
24	D6	220	THR
25	E6	30	ARG
25	E6	69	PHE
25	E6	245	ARG
26	F6	20	PHE
26	F6	32	ASP
27	H6	89	GLY
27	H6	99	ARG
27	H6	100	ILE
29	K6	92	ALA
31	P6	15	PHE
36	k1	92	LEU
37	l3	139	ILE
37	l4	139	ILE
1	T1	29	LYS
1	T1	142	ASN

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Mol	Chain	Res	Type
5	a1	98	PRO
6	c1	38	THR
11	G1	68	LEU
24	D1	154	ASP
26	F1	41	VAL
27	H1	190	PRO
28	I1	97	VAL
30	L1	98	LYS
33	R1	97	GLU
1	T2	29	LYS
1	T2	142	ASN
5	a2	98	PRO
11	G2	68	LEU
12	J2	76	ALA
24	D2	154	ASP
26	F2	41	VAL
28	I2	97	VAL
30	L2	98	LYS
33	R2	97	GLU
1	T3	142	ASN
5	a3	98	PRO
10	C3	274	VAL
11	G3	68	LEU
24	D3	154	ASP
26	F3	41	VAL
27	H3	99	ARG
28	I3	97	VAL
29	K3	92	ALA
30	L3	98	LYS
33	R3	97	GLU
1	T4	142	ASN
5	a4	98	PRO
15	O4	112	ALA
24	D4	154	ASP
26	F4	41	VAL
27	H4	113	LYS
28	I4	97	VAL
30	L4	98	LYS
33	R4	97	GLU
1	T5	29	LYS
1	T5	142	ASN
5	a5	98	PRO

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Mol	Chain	Res	Type
6	c5	38	THR
10	C5	274	VAL
11	G5	68	LEU
14	N5	68	GLY
19	b5	22	LYS
24	D5	154	ASP
26	F5	41	VAL
27	H5	190	PRO
28	I5	97	VAL
29	K5	92	ALA
30	L5	98	LYS
33	R5	97	GLU
1	T6	142	ASN
5	a6	98	PRO
11	G6	68	LEU
12	J6	76	ALA
24	D6	154	ASP
26	F6	41	VAL
27	H6	190	PRO
28	I6	97	VAL
30	L6	98	LYS
33	R6	97	GLU
36	k1	177	MET
36	k2	167	ILE
37	l1	139	ILE
37	l1	175	ILE
37	l2	139	ILE
37	l2	175	ILE
37	l3	175	ILE
37	l4	175	ILE
37	l5	139	ILE
37	l5	175	ILE
37	l6	139	ILE
37	l6	175	ILE
6	c1	8	PRO
9	g1	13	GLY
10	C1	274	VAL
12	J1	171	GLY
14	N1	68	GLY
6	c2	8	PRO
9	g2	13	GLY
10	C2	274	VAL

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Mol	Chain	Res	Type
12	J2	171	GLY
14	N2	68	GLY
27	H2	190	PRO
6	c3	8	PRO
9	g3	13	GLY
12	J3	171	GLY
14	N3	68	GLY
27	H3	190	PRO
6	c4	8	PRO
9	g4	13	GLY
10	C4	274	VAL
12	J4	171	GLY
14	N4	68	GLY
27	H4	190	PRO
6	c5	8	PRO
9	g5	13	GLY
12	J5	171	GLY
31	P5	109	PRO
9	g6	13	GLY
10	C6	274	VAL
12	J6	171	GLY
14	N6	68	GLY
24	D1	41	VAL
24	D1	200	PRO
25	E1	15	PRO
24	D2	200	PRO
25	E2	15	PRO
24	D3	41	VAL
25	E3	15	PRO
25	E4	15	PRO
25	E5	15	PRO
6	c6	8	PRO
24	D6	41	VAL
24	D6	200	PRO
25	E6	15	PRO
36	k6	167	ILE
9	g1	61	GLY
9	g1	267	VAL
28	I1	102	VAL
31	P1	129	GLY
33	R1	121	GLN
9	g2	61	GLY

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Mol	Chain	Res	Type
9	g2	267	VAL
24	D2	41	VAL
28	I2	102	VAL
33	R2	121	GLN
9	g3	61	GLY
9	g3	267	VAL
24	D3	200	PRO
28	I3	102	VAL
33	R3	121	GLN
9	g4	61	GLY
9	g4	267	VAL
24	D4	41	VAL
24	D4	200	PRO
31	P4	129	GLY
33	R4	121	GLN
9	g5	61	GLY
9	g5	267	VAL
24	D5	41	VAL
24	D5	200	PRO
28	I5	102	VAL
33	R5	121	GLN
9	g6	61	GLY
9	g6	267	VAL
28	I6	102	VAL
33	R6	121	GLN
36	k4	167	ILE
26	F1	128	ILE
26	F2	128	ILE
31	P2	129	GLY
26	F3	128	ILE
31	P3	129	GLY
26	F4	128	ILE
28	I4	102	VAL
26	F5	128	ILE
31	P5	129	GLY
26	F6	128	ILE
31	P6	129	GLY
37	l1	115	VAL
37	l2	115	VAL
37	l3	115	VAL
37	l4	115	VAL
37	l5	115	VAL

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Mol	Chain	Res	Type
37	l6	115	VAL
6	c1	22	GLY
6	c2	22	GLY
23	B2	132	GLY
6	c3	22	GLY
19	b3	76	GLY
6	c4	22	GLY
19	b4	76	GLY
6	c5	22	GLY
19	b5	76	GLY
6	c6	22	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	T1	113/115 (98%)	113 (100%)	0	100	100
1	T2	113/115 (98%)	113 (100%)	0	100	100
1	T3	113/115 (98%)	113 (100%)	0	100	100
1	T4	113/115 (98%)	113 (100%)	0	100	100
1	T5	113/115 (98%)	113 (100%)	0	100	100
1	T6	113/115 (98%)	113 (100%)	0	100	100
2	U1	94/107 (88%)	91 (97%)	3 (3%)	34	56
2	U2	94/107 (88%)	91 (97%)	3 (3%)	34	56
2	U3	94/107 (88%)	91 (97%)	3 (3%)	34	56
2	U4	94/107 (88%)	91 (97%)	3 (3%)	34	56
2	U5	94/107 (88%)	91 (97%)	3 (3%)	34	56
2	U6	94/107 (88%)	91 (97%)	3 (3%)	34	56
3	V1	67/67 (100%)	67 (100%)	0	100	100
3	V2	67/67 (100%)	67 (100%)	0	100	100
3	V3	67/67 (100%)	67 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	V4	67/67 (100%)	67 (100%)	0	100	100
3	V5	67/67 (100%)	67 (100%)	0	100	100
3	V6	67/67 (100%)	67 (100%)	0	100	100
4	X1	113/115 (98%)	113 (100%)	0	100	100
4	X2	113/115 (98%)	113 (100%)	0	100	100
4	X3	113/115 (98%)	113 (100%)	0	100	100
4	X4	113/115 (98%)	113 (100%)	0	100	100
4	X5	113/115 (98%)	113 (100%)	0	100	100
4	X6	113/115 (98%)	113 (100%)	0	100	100
5	a1	90/98 (92%)	87 (97%)	3 (3%)	33	55
5	a2	90/98 (92%)	87 (97%)	3 (3%)	33	55
5	a3	90/98 (92%)	87 (97%)	3 (3%)	33	55
5	a4	90/98 (92%)	87 (97%)	3 (3%)	33	55
5	a5	90/98 (92%)	87 (97%)	3 (3%)	33	55
5	a6	90/98 (92%)	87 (97%)	3 (3%)	33	55
6	c1	57/62 (92%)	57 (100%)	0	100	100
6	c2	57/62 (92%)	57 (100%)	0	100	100
6	c3	57/62 (92%)	57 (100%)	0	100	100
6	c4	57/62 (92%)	57 (100%)	0	100	100
6	c5	57/62 (92%)	57 (100%)	0	100	100
6	c6	57/62 (92%)	57 (100%)	0	100	100
7	d1	47/49 (96%)	47 (100%)	0	100	100
7	d2	47/49 (96%)	47 (100%)	0	100	100
7	d3	47/49 (96%)	47 (100%)	0	100	100
7	d4	47/49 (96%)	47 (100%)	0	100	100
7	d5	47/49 (96%)	47 (100%)	0	100	100
7	d6	47/49 (96%)	47 (100%)	0	100	100
8	f1	65/140 (46%)	61 (94%)	4 (6%)	16	38
8	f2	65/140 (46%)	61 (94%)	4 (6%)	16	38
8	f3	65/140 (46%)	59 (91%)	6 (9%)	8	27
8	f4	65/140 (46%)	59 (91%)	6 (9%)	8	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	f5	65/140 (46%)	59 (91%)	6 (9%)	8	27
8	f6	65/140 (46%)	60 (92%)	5 (8%)	12	32
9	g1	272/275 (99%)	272 (100%)	0	100	100
9	g2	272/275 (99%)	272 (100%)	0	100	100
9	g3	272/275 (99%)	272 (100%)	0	100	100
9	g4	272/275 (99%)	272 (100%)	0	100	100
9	g5	272/275 (99%)	272 (100%)	0	100	100
9	g6	272/275 (99%)	272 (100%)	0	100	100
10	C1	188/225 (84%)	186 (99%)	2 (1%)	65	76
10	C2	188/225 (84%)	186 (99%)	2 (1%)	65	76
10	C3	188/225 (84%)	186 (99%)	2 (1%)	65	76
10	C4	188/225 (84%)	186 (99%)	2 (1%)	65	76
10	C5	188/225 (84%)	186 (99%)	2 (1%)	65	76
10	C6	188/225 (84%)	186 (99%)	2 (1%)	65	76
11	G1	207/218 (95%)	201 (97%)	6 (3%)	37	58
11	G2	207/218 (95%)	201 (97%)	6 (3%)	37	58
11	G3	207/218 (95%)	201 (97%)	6 (3%)	37	58
11	G4	207/218 (95%)	201 (97%)	6 (3%)	37	58
11	G5	207/218 (95%)	201 (97%)	6 (3%)	37	58
11	G6	207/218 (95%)	201 (97%)	6 (3%)	37	58
12	J1	161/168 (96%)	161 (100%)	0	100	100
12	J2	161/168 (96%)	161 (100%)	0	100	100
12	J3	161/168 (96%)	161 (100%)	0	100	100
12	J4	161/168 (96%)	161 (100%)	0	100	100
12	J5	161/168 (96%)	161 (100%)	0	100	100
12	J6	161/168 (96%)	161 (100%)	0	100	100
13	M1	104/108 (96%)	92 (88%)	12 (12%)	5	18
13	M2	104/108 (96%)	92 (88%)	12 (12%)	5	18
13	M3	104/108 (96%)	92 (88%)	12 (12%)	5	18
13	M4	104/108 (96%)	92 (88%)	12 (12%)	5	18
13	M5	104/108 (96%)	92 (88%)	12 (12%)	5	18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	M6	104/108 (96%)	92 (88%)	12 (12%)	5	18
14	N1	130/131 (99%)	127 (98%)	3 (2%)	44	64
14	N2	130/131 (99%)	127 (98%)	3 (2%)	44	64
14	N3	130/131 (99%)	124 (95%)	6 (5%)	24	45
14	N4	130/131 (99%)	127 (98%)	3 (2%)	44	64
14	N5	130/131 (99%)	124 (95%)	6 (5%)	24	45
14	N6	130/131 (99%)	126 (97%)	4 (3%)	35	56
15	O1	110/119 (92%)	110 (100%)	0	100	100
15	O2	110/119 (92%)	110 (100%)	0	100	100
15	O3	110/119 (92%)	110 (100%)	0	100	100
15	O4	110/119 (92%)	110 (100%)	0	100	100
15	O5	110/119 (92%)	110 (100%)	0	100	100
15	O6	110/119 (92%)	110 (100%)	0	100	100
16	W1	112/113 (99%)	112 (100%)	0	100	100
16	W2	112/113 (99%)	112 (100%)	0	100	100
16	W3	112/113 (99%)	112 (100%)	0	100	100
16	W4	112/113 (99%)	112 (100%)	0	100	100
16	W5	112/113 (99%)	112 (100%)	0	100	100
16	W6	112/113 (99%)	112 (100%)	0	100	100
17	Y1	113/115 (98%)	113 (100%)	0	100	100
17	Y2	113/115 (98%)	113 (100%)	0	100	100
17	Y3	113/115 (98%)	113 (100%)	0	100	100
17	Y4	113/115 (98%)	113 (100%)	0	100	100
17	Y5	113/115 (98%)	113 (100%)	0	100	100
17	Y6	113/115 (98%)	113 (100%)	0	100	100
18	Z1	66/103 (64%)	64 (97%)	2 (3%)	36	57
18	Z2	66/103 (64%)	64 (97%)	2 (3%)	36	57
18	Z3	66/103 (64%)	64 (97%)	2 (3%)	36	57
18	Z4	66/103 (64%)	64 (97%)	2 (3%)	36	57
18	Z5	66/103 (64%)	64 (97%)	2 (3%)	36	57
18	Z6	66/103 (64%)	64 (97%)	2 (3%)	36	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
19	b1	75/76 (99%)	74 (99%)	1 (1%)	61	74
19	b2	75/76 (99%)	75 (100%)	0	100	100
19	b3	75/76 (99%)	75 (100%)	0	100	100
19	b4	75/76 (99%)	74 (99%)	1 (1%)	61	74
19	b5	75/76 (99%)	75 (100%)	0	100	100
19	b6	75/76 (99%)	75 (100%)	0	100	100
20	e1	47/104 (45%)	44 (94%)	3 (6%)	16	37
20	e2	47/104 (45%)	44 (94%)	3 (6%)	16	37
20	e3	47/104 (45%)	45 (96%)	2 (4%)	26	47
20	e4	47/104 (45%)	43 (92%)	4 (8%)	10	29
20	e5	47/104 (45%)	43 (92%)	4 (8%)	10	29
20	e6	47/104 (45%)	45 (96%)	2 (4%)	26	47
22	A1	184/243 (76%)	182 (99%)	2 (1%)	65	76
22	A2	184/243 (76%)	181 (98%)	3 (2%)	55	70
22	A3	184/243 (76%)	182 (99%)	2 (1%)	65	76
22	A4	184/243 (76%)	182 (99%)	2 (1%)	65	76
22	A5	184/243 (76%)	182 (99%)	2 (1%)	65	76
22	A6	184/243 (76%)	182 (99%)	2 (1%)	65	76
23	B1	195/231 (84%)	194 (100%)	1 (0%)	81	83
23	B2	195/231 (84%)	195 (100%)	0	100	100
23	B3	195/231 (84%)	195 (100%)	0	100	100
23	B4	195/231 (84%)	195 (100%)	0	100	100
23	B5	195/231 (84%)	195 (100%)	0	100	100
23	B6	195/231 (84%)	195 (100%)	0	100	100
24	D1	190/202 (94%)	190 (100%)	0	100	100
24	D2	190/202 (94%)	190 (100%)	0	100	100
24	D3	190/202 (94%)	190 (100%)	0	100	100
24	D4	190/202 (94%)	190 (100%)	0	100	100
24	D5	190/202 (94%)	190 (100%)	0	100	100
24	D6	190/202 (94%)	190 (100%)	0	100	100
25	E1	224/225 (100%)	224 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	E2	224/225 (100%)	224 (100%)	0	100	100
25	E3	224/225 (100%)	224 (100%)	0	100	100
25	E4	224/225 (100%)	224 (100%)	0	100	100
25	E5	224/225 (100%)	224 (100%)	0	100	100
25	E6	224/225 (100%)	224 (100%)	0	100	100
26	F1	161/170 (95%)	157 (98%)	4 (2%)	42	62
26	F2	161/170 (95%)	157 (98%)	4 (2%)	42	62
26	F3	161/170 (95%)	157 (98%)	4 (2%)	42	62
26	F4	161/170 (95%)	157 (98%)	4 (2%)	42	62
26	F5	161/170 (95%)	157 (98%)	4 (2%)	42	62
26	F6	161/170 (95%)	157 (98%)	4 (2%)	42	62
27	H1	169/174 (97%)	169 (100%)	0	100	100
27	H2	169/174 (97%)	169 (100%)	0	100	100
27	H3	169/174 (97%)	169 (100%)	0	100	100
27	H4	169/174 (97%)	166 (98%)	3 (2%)	51	68
27	H5	169/174 (97%)	169 (100%)	0	100	100
27	H6	169/174 (97%)	169 (100%)	0	100	100
28	I1	178/180 (99%)	178 (100%)	0	100	100
28	I2	178/180 (99%)	178 (100%)	0	100	100
28	I3	178/180 (99%)	177 (99%)	1 (1%)	78	82
28	I4	178/180 (99%)	178 (100%)	0	100	100
28	I5	178/180 (99%)	178 (100%)	0	100	100
28	I6	178/180 (99%)	178 (100%)	0	100	100
29	K1	89/136 (65%)	89 (100%)	0	100	100
29	K2	89/136 (65%)	89 (100%)	0	100	100
29	K3	89/136 (65%)	89 (100%)	0	100	100
29	K4	89/136 (65%)	89 (100%)	0	100	100
29	K5	89/136 (65%)	89 (100%)	0	100	100
29	K6	89/136 (65%)	89 (100%)	0	100	100
30	L1	137/142 (96%)	134 (98%)	3 (2%)	45	64
30	L2	137/142 (96%)	134 (98%)	3 (2%)	45	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
30	L3	137/142 (96%)	134 (98%)	3 (2%)	45	64
30	L4	137/142 (96%)	134 (98%)	3 (2%)	45	64
30	L5	137/142 (96%)	134 (98%)	3 (2%)	45	64
30	L6	137/142 (96%)	134 (98%)	3 (2%)	45	64
31	P1	112/130 (86%)	97 (87%)	15 (13%)	4	14
31	P2	112/130 (86%)	96 (86%)	16 (14%)	3	13
31	P3	112/130 (86%)	98 (88%)	14 (12%)	4	16
31	P4	112/130 (86%)	96 (86%)	16 (14%)	3	13
31	P5	112/130 (86%)	96 (86%)	16 (14%)	3	13
31	P6	112/130 (86%)	99 (88%)	13 (12%)	5	18
32	Q1	121/121 (100%)	119 (98%)	2 (2%)	53	69
32	Q2	121/121 (100%)	119 (98%)	2 (2%)	53	69
32	Q3	121/121 (100%)	119 (98%)	2 (2%)	53	69
32	Q4	121/121 (100%)	119 (98%)	2 (2%)	53	69
32	Q5	121/121 (100%)	119 (98%)	2 (2%)	53	69
32	Q6	121/121 (100%)	119 (98%)	2 (2%)	53	69
33	R1	120/122 (98%)	113 (94%)	7 (6%)	18	40
33	R2	120/122 (98%)	113 (94%)	7 (6%)	18	40
33	R3	120/122 (98%)	114 (95%)	6 (5%)	22	43
33	R4	120/122 (98%)	113 (94%)	7 (6%)	18	40
33	R5	120/122 (98%)	114 (95%)	6 (5%)	22	43
33	R6	120/122 (98%)	112 (93%)	8 (7%)	15	36
34	S1	124/132 (94%)	116 (94%)	8 (6%)	15	37
34	S2	124/132 (94%)	116 (94%)	8 (6%)	15	37
34	S3	124/132 (94%)	116 (94%)	8 (6%)	15	37
34	S4	124/132 (94%)	116 (94%)	8 (6%)	15	37
34	S5	124/132 (94%)	116 (94%)	8 (6%)	15	37
34	S6	124/132 (94%)	116 (94%)	8 (6%)	15	37
35	j1	24/24 (100%)	18 (75%)	6 (25%)	0	4
35	j2	24/24 (100%)	18 (75%)	6 (25%)	0	4
35	j3	24/24 (100%)	18 (75%)	6 (25%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	j4	24/24 (100%)	19 (79%)	5 (21%)	1	6
35	j5	24/24 (100%)	18 (75%)	6 (25%)	0	4
35	j6	24/24 (100%)	18 (75%)	6 (25%)	0	4
36	k1	152/159 (96%)	145 (95%)	7 (5%)	24	45
36	k2	152/159 (96%)	144 (95%)	8 (5%)	20	41
36	k3	152/159 (96%)	145 (95%)	7 (5%)	24	45
36	k4	152/159 (96%)	145 (95%)	7 (5%)	24	45
36	k5	152/159 (96%)	148 (97%)	4 (3%)	40	61
36	k6	152/159 (96%)	145 (95%)	7 (5%)	24	45
37	l1	69/168 (41%)	54 (78%)	15 (22%)	1	6
37	l2	69/168 (41%)	54 (78%)	15 (22%)	1	6
37	l3	69/168 (41%)	54 (78%)	15 (22%)	1	6
37	l4	69/168 (41%)	54 (78%)	15 (22%)	1	6
37	l5	69/168 (41%)	54 (78%)	15 (22%)	1	6
37	l6	69/168 (41%)	54 (78%)	15 (22%)	1	6
All	All	26880/30402 (88%)	26220 (98%)	660 (2%)	42	62

All (660) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	U1	18	HIS
2	U1	116	ILE
2	U1	118	ASP
5	a1	100	ARG
5	a1	101	PHE
5	a1	102	ARG
8	f1	86	THR
8	f1	92	LYS
8	f1	94	LYS
8	f1	98	VAL
10	C1	275	LYS
10	C1	276	THR
11	G1	139	SER
11	G1	141	ILE
11	G1	146	ASN
11	G1	147	LEU
11	G1	149	LYS

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Mol	Chain	Res	Type
11	G1	151	ASP
13	M1	21	VAL
13	M1	26	LEU
13	M1	35	ILE
13	M1	36	ARG
13	M1	45	ARG
13	M1	65	VAL
13	M1	74	ILE
13	M1	89	VAL
13	M1	104	VAL
13	M1	116	LYS
13	M1	117	GLU
13	M1	118	SER
14	N1	42	LYS
14	N1	43	LYS
14	N1	149	LEU
18	Z1	85	ARG
18	Z1	88	LEU
19	b1	35	VAL
20	e1	45	VAL
20	e1	49	PHE
20	e1	52	LYS
22	A1	210	ILE
22	A1	213	GLU
23	B1	21	VAL
26	F1	128	ILE
26	F1	130	ARG
26	F1	134	VAL
26	F1	136	ARG
30	L1	147	LYS
30	L1	152	LYS
30	L1	153	LYS
31	P1	29	SER
31	P1	38	SER
31	P1	40	ARG
31	P1	44	ARG
31	P1	45	LEU
31	P1	50	ARG
31	P1	75	VAL
31	P1	78	THR
31	P1	84	ILE
31	P1	115	TYR

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Mol	Chain	Res	Type
31	P1	116	LEU
31	P1	118	GLU
31	P1	122	THR
31	P1	130	ARG
31	P1	133	ILE
32	Q1	1	MET
32	Q1	4	LYS
33	R1	66	VAL
33	R1	67	ARG
33	R1	69	ILE
33	R1	71	ILE
33	R1	72	LYS
33	R1	74	GLN
33	R1	80	ARG
34	S1	4	VAL
34	S1	14	ARG
34	S1	19	ASN
34	S1	71	MET
34	S1	98	VAL
34	S1	129	LEU
34	S1	131	VAL
34	S1	138	THR
35	j1	2	ARG
35	j1	5	TRP
35	j1	9	ARG
35	j1	16	LYS
35	j1	17	ARG
35	j1	19	LYS
2	U2	18	HIS
2	U2	116	ILE
2	U2	118	ASP
5	a2	100	ARG
5	a2	101	PHE
5	a2	102	ARG
8	f2	86	THR
8	f2	92	LYS
8	f2	94	LYS
8	f2	98	VAL
10	C2	275	LYS
10	C2	276	THR
11	G2	139	SER
11	G2	141	ILE

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Mol	Chain	Res	Type
11	G2	146	ASN
11	G2	147	LEU
11	G2	149	LYS
11	G2	151	ASP
13	M2	21	VAL
13	M2	26	LEU
13	M2	35	ILE
13	M2	36	ARG
13	M2	45	ARG
13	M2	65	VAL
13	M2	74	ILE
13	M2	89	VAL
13	M2	104	VAL
13	M2	116	LYS
13	M2	117	GLU
13	M2	118	SER
14	N2	42	LYS
14	N2	43	LYS
14	N2	149	LEU
18	Z2	85	ARG
18	Z2	88	LEU
20	e2	6	LEU
20	e2	48	THR
20	e2	52	LYS
22	A2	107	THR
22	A2	210	ILE
22	A2	213	GLU
26	F2	128	ILE
26	F2	130	ARG
26	F2	134	VAL
26	F2	136	ARG
30	L2	147	LYS
30	L2	152	LYS
30	L2	153	LYS
31	P2	29	SER
31	P2	35	GLN
31	P2	38	SER
31	P2	40	ARG
31	P2	42	ARG
31	P2	44	ARG
31	P2	45	LEU
31	P2	50	ARG

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Mol	Chain	Res	Type
31	P2	75	VAL
31	P2	78	THR
31	P2	84	ILE
31	P2	115	TYR
31	P2	116	LEU
31	P2	118	GLU
31	P2	122	THR
31	P2	130	ARG
32	Q2	1	MET
32	Q2	4	LYS
33	R2	60	ARG
33	R2	66	VAL
33	R2	69	ILE
33	R2	71	ILE
33	R2	73	LEU
33	R2	75	GLU
33	R2	80	ARG
34	S2	4	VAL
34	S2	14	ARG
34	S2	19	ASN
34	S2	71	MET
34	S2	98	VAL
34	S2	129	LEU
34	S2	131	VAL
34	S2	138	THR
35	j2	2	ARG
35	j2	5	TRP
35	j2	9	ARG
35	j2	16	LYS
35	j2	17	ARG
35	j2	19	LYS
2	U3	18	HIS
2	U3	116	ILE
2	U3	118	ASP
5	a3	100	ARG
5	a3	101	PHE
5	a3	102	ARG
8	f3	81	LYS
8	f3	82	LYS
8	f3	86	THR
8	f3	92	LYS
8	f3	94	LYS

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Mol	Chain	Res	Type
8	f3	98	VAL
10	C3	275	LYS
10	C3	276	THR
11	G3	139	SER
11	G3	141	ILE
11	G3	146	ASN
11	G3	147	LEU
11	G3	149	LYS
11	G3	151	ASP
13	M3	21	VAL
13	M3	26	LEU
13	M3	35	ILE
13	M3	36	ARG
13	M3	45	ARG
13	M3	65	VAL
13	M3	74	ILE
13	M3	89	VAL
13	M3	104	VAL
13	M3	116	LYS
13	M3	117	GLU
13	M3	118	SER
14	N3	42	LYS
14	N3	43	LYS
14	N3	133	ARG
14	N3	134	VAL
14	N3	135	LEU
14	N3	149	LEU
18	Z3	85	ARG
18	Z3	88	LEU
20	e3	48	THR
20	e3	52	LYS
22	A3	210	ILE
22	A3	213	GLU
26	F3	128	ILE
26	F3	130	ARG
26	F3	134	VAL
26	F3	136	ARG
28	I3	196	GLU
30	L3	147	LYS
30	L3	153	LYS
30	L3	154	GLN
31	P3	13	ARG

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Mol	Chain	Res	Type
31	P3	29	SER
31	P3	38	SER
31	P3	40	ARG
31	P3	45	LEU
31	P3	50	ARG
31	P3	75	VAL
31	P3	78	THR
31	P3	84	ILE
31	P3	115	TYR
31	P3	116	LEU
31	P3	118	GLU
31	P3	122	THR
31	P3	130	ARG
32	Q3	1	MET
32	Q3	4	LYS
33	R3	63	ARG
33	R3	69	ILE
33	R3	71	ILE
33	R3	72	LYS
33	R3	74	GLN
33	R3	80	ARG
34	S3	4	VAL
34	S3	14	ARG
34	S3	19	ASN
34	S3	71	MET
34	S3	98	VAL
34	S3	129	LEU
34	S3	131	VAL
34	S3	138	THR
35	j3	2	ARG
35	j3	5	TRP
35	j3	9	ARG
35	j3	16	LYS
35	j3	17	ARG
35	j3	19	LYS
2	U4	18	HIS
2	U4	116	ILE
2	U4	118	ASP
5	a4	100	ARG
5	a4	101	PHE
5	a4	102	ARG
8	f4	81	LYS

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Mol	Chain	Res	Type
8	f4	82	LYS
8	f4	86	THR
8	f4	92	LYS
8	f4	94	LYS
8	f4	98	VAL
10	C4	275	LYS
10	C4	276	THR
11	G4	139	SER
11	G4	141	ILE
11	G4	146	ASN
11	G4	147	LEU
11	G4	149	LYS
11	G4	151	ASP
13	M4	21	VAL
13	M4	26	LEU
13	M4	35	ILE
13	M4	36	ARG
13	M4	45	ARG
13	M4	65	VAL
13	M4	74	ILE
13	M4	89	VAL
13	M4	104	VAL
13	M4	116	LYS
13	M4	117	GLU
13	M4	118	SER
14	N4	42	LYS
14	N4	43	LYS
14	N4	149	LEU
18	Z4	85	ARG
18	Z4	88	LEU
19	b4	35	VAL
20	e4	11	LYS
20	e4	12	VAL
20	e4	48	THR
20	e4	52	LYS
22	A4	210	ILE
22	A4	213	GLU
26	F4	128	ILE
26	F4	130	ARG
26	F4	134	VAL
26	F4	136	ARG
27	H4	162	GLN

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Mol	Chain	Res	Type
27	H4	164	ASN
27	H4	169	LYS
30	L4	147	LYS
30	L4	152	LYS
30	L4	153	LYS
31	P4	29	SER
31	P4	35	GLN
31	P4	38	SER
31	P4	40	ARG
31	P4	42	ARG
31	P4	44	ARG
31	P4	45	LEU
31	P4	49	LEU
31	P4	75	VAL
31	P4	78	THR
31	P4	84	ILE
31	P4	115	TYR
31	P4	116	LEU
31	P4	118	GLU
31	P4	122	THR
31	P4	130	ARG
32	Q4	1	MET
32	Q4	4	LYS
33	R4	61	ILE
33	R4	66	VAL
33	R4	67	ARG
33	R4	69	ILE
33	R4	71	ILE
33	R4	73	LEU
33	R4	80	ARG
34	S4	4	VAL
34	S4	14	ARG
34	S4	19	ASN
34	S4	71	MET
34	S4	98	VAL
34	S4	129	LEU
34	S4	131	VAL
34	S4	138	THR
35	j4	5	TRP
35	j4	9	ARG
35	j4	16	LYS
35	j4	17	ARG

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Mol	Chain	Res	Type
35	j4	19	LYS
2	U5	18	HIS
2	U5	116	ILE
2	U5	118	ASP
5	a5	100	ARG
5	a5	101	PHE
5	a5	102	ARG
8	f5	81	LYS
8	f5	82	LYS
8	f5	86	THR
8	f5	92	LYS
8	f5	94	LYS
8	f5	98	VAL
10	C5	275	LYS
10	C5	276	THR
11	G5	139	SER
11	G5	141	ILE
11	G5	146	ASN
11	G5	147	LEU
11	G5	149	LYS
11	G5	151	ASP
13	M5	21	VAL
13	M5	26	LEU
13	M5	35	ILE
13	M5	36	ARG
13	M5	45	ARG
13	M5	65	VAL
13	M5	74	ILE
13	M5	89	VAL
13	M5	104	VAL
13	M5	116	LYS
13	M5	117	GLU
13	M5	118	SER
14	N5	42	LYS
14	N5	43	LYS
14	N5	133	ARG
14	N5	134	VAL
14	N5	135	LEU
14	N5	149	LEU
18	Z5	85	ARG
18	Z5	88	LEU
20	e5	33	LYS

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Mol	Chain	Res	Type
20	e5	34	ARG
20	e5	40	ARG
20	e5	52	LYS
22	A5	210	ILE
22	A5	213	GLU
26	F5	128	ILE
26	F5	130	ARG
26	F5	134	VAL
26	F5	136	ARG
30	L5	147	LYS
30	L5	152	LYS
30	L5	153	LYS
31	P5	29	SER
31	P5	35	GLN
31	P5	38	SER
31	P5	42	ARG
31	P5	44	ARG
31	P5	45	LEU
31	P5	50	ARG
31	P5	75	VAL
31	P5	78	THR
31	P5	84	ILE
31	P5	112	ILE
31	P5	115	TYR
31	P5	116	LEU
31	P5	118	GLU
31	P5	122	THR
31	P5	130	ARG
32	Q5	1	MET
32	Q5	4	LYS
33	R5	60	ARG
33	R5	66	VAL
33	R5	69	ILE
33	R5	71	ILE
33	R5	74	GLN
33	R5	80	ARG
34	S5	4	VAL
34	S5	14	ARG
34	S5	19	ASN
34	S5	71	MET
34	S5	98	VAL
34	S5	129	LEU

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Mol	Chain	Res	Type
34	S5	131	VAL
34	S5	138	THR
35	j5	2	ARG
35	j5	5	TRP
35	j5	9	ARG
35	j5	16	LYS
35	j5	17	ARG
35	j5	19	LYS
2	U6	18	HIS
2	U6	116	ILE
2	U6	118	ASP
5	a6	100	ARG
5	a6	101	PHE
5	a6	102	ARG
8	f6	81	LYS
8	f6	86	THR
8	f6	92	LYS
8	f6	94	LYS
8	f6	98	VAL
10	C6	275	LYS
10	C6	276	THR
11	G6	139	SER
11	G6	141	ILE
11	G6	146	ASN
11	G6	147	LEU
11	G6	149	LYS
11	G6	151	ASP
13	M6	21	VAL
13	M6	26	LEU
13	M6	35	ILE
13	M6	36	ARG
13	M6	45	ARG
13	M6	65	VAL
13	M6	74	ILE
13	M6	89	VAL
13	M6	104	VAL
13	M6	116	LYS
13	M6	117	GLU
13	M6	118	SER
14	N6	27	LYS
14	N6	42	LYS
14	N6	43	LYS

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Mol	Chain	Res	Type
14	N6	149	LEU
18	Z6	85	ARG
18	Z6	88	LEU
20	e6	48	THR
20	e6	52	LYS
22	A6	210	ILE
22	A6	213	GLU
26	F6	128	ILE
26	F6	130	ARG
26	F6	134	VAL
26	F6	136	ARG
30	L6	147	LYS
30	L6	152	LYS
30	L6	153	LYS
31	P6	29	SER
31	P6	40	ARG
31	P6	44	ARG
31	P6	45	LEU
31	P6	50	ARG
31	P6	75	VAL
31	P6	78	THR
31	P6	84	ILE
31	P6	115	TYR
31	P6	116	LEU
31	P6	118	GLU
31	P6	122	THR
31	P6	130	ARG
32	Q6	1	MET
32	Q6	4	LYS
33	R6	69	ILE
33	R6	71	ILE
33	R6	72	LYS
33	R6	73	LEU
33	R6	75	GLU
33	R6	76	GLU
33	R6	77	GLU
33	R6	80	ARG
34	S6	4	VAL
34	S6	14	ARG
34	S6	19	ASN
34	S6	71	MET
34	S6	98	VAL

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Mol	Chain	Res	Type
34	S6	129	LEU
34	S6	131	VAL
34	S6	138	THR
35	j6	2	ARG
35	j6	5	TRP
35	j6	9	ARG
35	j6	16	LYS
35	j6	17	ARG
35	j6	19	LYS
36	k1	15	ILE
36	k1	91	ILE
36	k1	92	LEU
36	k1	95	GLN
36	k1	144	CYS
36	k1	168	HIS
36	k1	169	TYR
36	k2	15	ILE
36	k2	95	GLN
36	k2	144	CYS
36	k2	166	ASN
36	k2	167	ILE
36	k2	168	HIS
36	k2	169	TYR
36	k2	178	LYS
36	k3	15	ILE
36	k3	91	ILE
36	k3	92	LEU
36	k3	95	GLN
36	k3	144	CYS
36	k3	168	HIS
36	k3	169	TYR
36	k4	15	ILE
36	k4	92	LEU
36	k4	95	GLN
36	k4	144	CYS
36	k4	164	ILE
36	k4	168	HIS
36	k4	169	TYR
36	k5	15	ILE
36	k5	95	GLN
36	k5	144	CYS
36	k5	169	TYR

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Mol	Chain	Res	Type
36	k6	15	ILE
36	k6	92	LEU
36	k6	144	CYS
36	k6	167	ILE
36	k6	168	HIS
36	k6	169	TYR
36	k6	170	LEU
37	l1	114	LYS
37	l1	119	LYS
37	l1	132	CYS
37	l1	140	ASP
37	l1	142	LYS
37	l1	150	GLN
37	l1	153	SER
37	l1	154	CYS
37	l1	175	ILE
37	l1	177	VAL
37	l1	181	LYS
37	l1	185	VAL
37	l1	186	ASP
37	l1	190	ILE
37	l1	191	GLU
37	l2	114	LYS
37	l2	119	LYS
37	l2	132	CYS
37	l2	140	ASP
37	l2	142	LYS
37	l2	150	GLN
37	l2	153	SER
37	l2	154	CYS
37	l2	175	ILE
37	l2	177	VAL
37	l2	181	LYS
37	l2	185	VAL
37	l2	186	ASP
37	l2	190	ILE
37	l2	191	GLU
37	l3	114	LYS
37	l3	119	LYS
37	l3	132	CYS
37	l3	140	ASP
37	l3	142	LYS

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Mol	Chain	Res	Type
37	l3	150	GLN
37	l3	153	SER
37	l3	154	CYS
37	l3	175	ILE
37	l3	177	VAL
37	l3	181	LYS
37	l3	185	VAL
37	l3	186	ASP
37	l3	190	ILE
37	l3	191	GLU
37	l4	114	LYS
37	l4	119	LYS
37	l4	132	CYS
37	l4	140	ASP
37	l4	142	LYS
37	l4	150	GLN
37	l4	153	SER
37	l4	154	CYS
37	l4	175	ILE
37	l4	177	VAL
37	l4	181	LYS
37	l4	185	VAL
37	l4	186	ASP
37	l4	190	ILE
37	l4	191	GLU
37	l5	114	LYS
37	l5	119	LYS
37	l5	132	CYS
37	l5	140	ASP
37	l5	142	LYS
37	l5	150	GLN
37	l5	153	SER
37	l5	154	CYS
37	l5	175	ILE
37	l5	177	VAL
37	l5	181	LYS
37	l5	185	VAL
37	l5	186	ASP
37	l5	190	ILE
37	l5	191	GLU
37	l6	114	LYS
37	l6	119	LYS

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Mol	Chain	Res	Type
37	l6	132	CYS
37	l6	140	ASP
37	l6	142	LYS
37	l6	150	GLN
37	l6	153	SER
37	l6	154	CYS
37	l6	175	ILE
37	l6	177	VAL
37	l6	181	LYS
37	l6	185	VAL
37	l6	186	ASP
37	l6	190	ILE
37	l6	191	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (435) such sidechains are listed below:

Mol	Chain	Res	Type
1	T1	83	GLN
2	U1	18	HIS
2	U1	81	GLN
4	X1	63	ASN
4	X1	87	ASN
4	X1	110	HIS
5	a1	8	ASN
5	a1	80	HIS
7	d1	4	GLN
8	f1	111	ASN
9	g1	51	ASN
9	g1	64	HIS
9	g1	162	ASN
9	g1	178	ASN
9	g1	187	ASN
9	g1	188	HIS
9	g1	285	GLN
9	g1	311	GLN
10	C1	115	GLN
10	C1	277	HIS
11	G1	65	GLN
11	G1	146	ASN
12	J1	75	ASN
12	J1	113	GLN
12	J1	143	ASN

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Mol	Chain	Res	Type
12	J1	156	HIS
13	M1	28	HIS
13	M1	75	ASN
14	N1	36	GLN
14	N1	58	HIS
14	N1	105	ASN
15	O1	13	GLN
15	O1	103	ASN
16	W1	70	ASN
17	Y1	63	HIS
17	Y1	85	ASN
17	Y1	89	HIS
18	Z1	112	ASN
19	b1	83	GLN
19	b1	84	HIS
20	e1	44	ASN
20	e1	56	ASN
23	B1	101	HIS
24	D1	57	ASN
24	D1	101	GLN
24	D1	226	GLN
25	E1	161	GLN
25	E1	224	ASN
26	F1	74	ASN
26	F1	83	ASN
26	F1	110	GLN
26	F1	114	ASN
26	F1	118	ASN
27	H1	33	ASN
27	H1	163	GLN
27	H1	165	ASN
28	I1	52	ASN
28	I1	99	ASN
28	I1	138	ASN
30	L1	13	GLN
30	L1	112	HIS
31	P1	79	HIS
32	Q1	35	ASN
33	R1	74	GLN
34	S1	72	GLN
34	S1	85	ASN
34	S1	97	GLN

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Mol	Chain	Res	Type
34	S1	101	ASN
34	S1	105	ASN
34	S1	134	GLN
1	T2	83	GLN
2	U2	81	GLN
4	X2	63	ASN
4	X2	87	ASN
4	X2	110	HIS
5	a2	8	ASN
7	d2	4	GLN
9	g2	51	ASN
9	g2	64	HIS
9	g2	162	ASN
9	g2	178	ASN
9	g2	187	ASN
9	g2	188	HIS
9	g2	285	GLN
9	g2	311	GLN
10	C2	115	GLN
10	C2	272	HIS
10	C2	277	HIS
11	G2	146	ASN
11	G2	187	HIS
12	J2	113	GLN
12	J2	125	HIS
12	J2	143	ASN
12	J2	156	HIS
13	M2	28	HIS
13	M2	75	ASN
14	N2	105	ASN
15	O2	13	GLN
15	O2	26	ASN
15	O2	103	ASN
16	W2	15	ASN
16	W2	70	ASN
17	Y2	63	HIS
17	Y2	85	ASN
18	Z2	112	ASN
19	b2	84	HIS
23	B2	101	HIS
24	D2	57	ASN
24	D2	226	GLN

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Mol	Chain	Res	Type
25	E2	161	GLN
25	E2	224	ASN
26	F2	74	ASN
26	F2	83	ASN
26	F2	110	GLN
26	F2	114	ASN
26	F2	118	ASN
27	H2	33	ASN
27	H2	76	GLN
27	H2	163	GLN
27	H2	165	ASN
28	I2	52	ASN
28	I2	99	ASN
28	I2	138	ASN
28	I2	167	GLN
30	L2	13	GLN
31	P2	79	HIS
32	Q2	35	ASN
33	R2	74	GLN
34	S2	72	GLN
34	S2	85	ASN
34	S2	101	ASN
34	S2	134	GLN
1	T3	83	GLN
2	U3	18	HIS
2	U3	81	GLN
4	X3	63	ASN
4	X3	87	ASN
4	X3	110	HIS
5	a3	8	ASN
5	a3	80	HIS
7	d3	4	GLN
9	g3	51	ASN
9	g3	64	HIS
9	g3	162	ASN
9	g3	178	ASN
9	g3	187	ASN
9	g3	188	HIS
9	g3	285	GLN
9	g3	311	GLN
10	C3	115	GLN
10	C3	277	HIS

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Mol	Chain	Res	Type
11	G3	65	GLN
11	G3	146	ASN
11	G3	186	GLN
12	J3	75	ASN
12	J3	113	GLN
12	J3	143	ASN
12	J3	156	HIS
13	M3	28	HIS
13	M3	75	ASN
14	N3	36	GLN
14	N3	105	ASN
15	O3	13	GLN
15	O3	26	ASN
15	O3	103	ASN
16	W3	70	ASN
16	W3	113	HIS
17	Y3	63	HIS
17	Y3	85	ASN
18	Z3	112	ASN
19	b3	84	HIS
23	B3	101	HIS
24	D3	57	ASN
24	D3	226	GLN
25	E3	161	GLN
25	E3	224	ASN
26	F3	74	ASN
26	F3	83	ASN
26	F3	110	GLN
26	F3	114	ASN
26	F3	118	ASN
27	H3	33	ASN
27	H3	76	GLN
27	H3	163	GLN
27	H3	165	ASN
28	I3	52	ASN
28	I3	99	ASN
28	I3	138	ASN
28	I3	167	GLN
29	K3	73	ASN
30	L3	5	GLN
30	L3	13	GLN
30	L3	112	HIS

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Mol	Chain	Res	Type
30	L3	121	GLN
30	L3	141	ASN
30	L3	154	GLN
31	P3	79	HIS
32	Q3	35	ASN
33	R3	74	GLN
34	S3	72	GLN
34	S3	85	ASN
34	S3	101	ASN
34	S3	134	GLN
1	T4	83	GLN
2	U4	18	HIS
2	U4	81	GLN
4	X4	63	ASN
4	X4	87	ASN
4	X4	92	ASN
4	X4	110	HIS
5	a4	8	ASN
5	a4	80	HIS
7	d4	4	GLN
9	g4	51	ASN
9	g4	64	HIS
9	g4	162	ASN
9	g4	178	ASN
9	g4	187	ASN
9	g4	188	HIS
9	g4	285	GLN
9	g4	311	GLN
10	C4	115	GLN
10	C4	277	HIS
11	G4	65	GLN
11	G4	146	ASN
12	J4	113	GLN
12	J4	125	HIS
12	J4	143	ASN
12	J4	156	HIS
13	M4	28	HIS
13	M4	75	ASN
14	N4	36	GLN
14	N4	105	ASN
15	O4	13	GLN
15	O4	103	ASN

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Mol	Chain	Res	Type
16	W4	15	ASN
16	W4	70	ASN
17	Y4	63	HIS
17	Y4	85	ASN
17	Y4	89	HIS
18	Z4	112	ASN
19	b4	84	HIS
20	e4	56	ASN
23	B4	101	HIS
24	D4	57	ASN
24	D4	101	GLN
24	D4	226	GLN
25	E4	161	GLN
25	E4	224	ASN
26	F4	31	ASN
26	F4	74	ASN
26	F4	83	ASN
26	F4	110	GLN
26	F4	114	ASN
26	F4	118	ASN
27	H4	33	ASN
27	H4	76	GLN
27	H4	91	HIS
27	H4	164	ASN
28	I4	52	ASN
28	I4	99	ASN
28	I4	138	ASN
28	I4	146	GLN
29	K4	84	HIS
30	L4	13	GLN
31	P4	79	HIS
32	Q4	35	ASN
34	S4	72	GLN
34	S4	85	ASN
34	S4	97	GLN
34	S4	101	ASN
34	S4	105	ASN
34	S4	134	GLN
1	T5	83	GLN
2	U5	18	HIS
2	U5	81	GLN
4	X5	63	ASN

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Mol	Chain	Res	Type
4	X5	87	ASN
4	X5	110	HIS
5	a5	8	ASN
5	a5	80	HIS
7	d5	4	GLN
8	f5	111	ASN
9	g5	51	ASN
9	g5	64	HIS
9	g5	162	ASN
9	g5	178	ASN
9	g5	187	ASN
9	g5	188	HIS
9	g5	285	GLN
9	g5	311	GLN
10	C5	115	GLN
10	C5	277	HIS
11	G5	65	GLN
11	G5	146	ASN
11	G5	187	HIS
12	J5	75	ASN
12	J5	113	GLN
12	J5	124	HIS
12	J5	143	ASN
12	J5	156	HIS
13	M5	28	HIS
14	N5	36	GLN
14	N5	105	ASN
15	O5	13	GLN
15	O5	103	ASN
16	W5	15	ASN
16	W5	70	ASN
17	Y5	63	HIS
17	Y5	85	ASN
17	Y5	89	HIS
18	Z5	112	ASN
19	b5	84	HIS
20	e5	37	GLN
20	e5	56	ASN
23	B5	101	HIS
24	D5	57	ASN
24	D5	226	GLN
25	E5	161	GLN

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Mol	Chain	Res	Type
25	E5	224	ASN
26	F5	74	ASN
26	F5	83	ASN
26	F5	110	GLN
26	F5	114	ASN
26	F5	118	ASN
27	H5	33	ASN
27	H5	76	GLN
27	H5	163	GLN
27	H5	165	ASN
28	I5	52	ASN
28	I5	84	ASN
28	I5	138	ASN
30	L5	13	GLN
30	L5	154	GLN
31	P5	79	HIS
32	Q5	35	ASN
34	S5	72	GLN
34	S5	85	ASN
34	S5	101	ASN
34	S5	105	ASN
34	S5	134	GLN
1	T6	83	GLN
2	U6	18	HIS
2	U6	81	GLN
4	X6	63	ASN
4	X6	87	ASN
4	X6	110	HIS
5	a6	8	ASN
7	d6	4	GLN
9	g6	51	ASN
9	g6	64	HIS
9	g6	178	ASN
9	g6	187	ASN
9	g6	188	HIS
9	g6	285	GLN
10	C6	115	GLN
10	C6	277	HIS
11	G6	146	ASN
12	J6	75	ASN
12	J6	113	GLN
12	J6	143	ASN

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Mol	Chain	Res	Type
12	J6	156	HIS
13	M6	28	HIS
13	M6	75	ASN
14	N6	36	GLN
14	N6	105	ASN
15	O6	13	GLN
15	O6	103	ASN
16	W6	15	ASN
16	W6	70	ASN
17	Y6	63	HIS
17	Y6	85	ASN
17	Y6	89	HIS
18	Z6	112	ASN
19	b6	84	HIS
20	e6	56	ASN
22	A6	132	GLN
23	B6	101	HIS
24	D6	57	ASN
24	D6	101	GLN
24	D6	226	GLN
25	E6	161	GLN
25	E6	224	ASN
26	F6	31	ASN
26	F6	83	ASN
26	F6	110	GLN
26	F6	114	ASN
26	F6	118	ASN
27	H6	33	ASN
27	H6	76	GLN
27	H6	163	GLN
27	H6	165	ASN
28	I6	52	ASN
28	I6	88	ASN
28	I6	138	ASN
28	I6	167	GLN
29	K6	73	ASN
30	L6	13	GLN
30	L6	141	ASN
31	P6	79	HIS
32	Q6	35	ASN
34	S6	72	GLN
34	S6	85	ASN

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Mol	Chain	Res	Type
34	S6	101	ASN
34	S6	134	GLN
36	k1	10	ASN
36	k1	16	GLN
36	k1	42	GLN
36	k1	141	HIS
36	k2	16	GLN
36	k2	42	GLN
36	k2	141	HIS
36	k2	166	ASN
36	k3	16	GLN
36	k3	42	GLN
36	k3	141	HIS
36	k4	16	GLN
36	k4	42	GLN
36	k4	110	ASN
36	k4	141	HIS
36	k4	168	HIS
36	k5	42	GLN
36	k5	96	GLN
36	k5	141	HIS
36	k6	16	GLN
36	k6	42	GLN
36	k6	56	HIS
36	k6	141	HIS
36	k6	166	ASN
37	l1	145	GLN
37	l2	145	GLN
37	l3	145	GLN
37	l4	145	GLN
37	l5	145	GLN
37	l6	145	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
21	i1	1714/1869 (91%)	684 (39%)	0
21	i2	1714/1869 (91%)	687 (40%)	0
21	i3	1714/1869 (91%)	683 (39%)	0
21	i4	1714/1869 (91%)	683 (39%)	0
21	i5	1714/1869 (91%)	682 (39%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
21	i6	1714/1869 (91%)	682 (39%)	0
All	All	10284/11214 (91%)	4101 (39%)	0

All (4101) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
21	i1	2	A
21	i1	3	C
21	i1	4	C
21	i1	9	U
21	i1	17	C
21	i1	18	C
21	i1	25	A
21	i1	27	A
21	i1	31	U
21	i1	33	G
21	i1	41	G
21	i1	42	A
21	i1	44	U
21	i1	45	A
21	i1	46	A
21	i1	52	G
21	i1	56	G
21	i1	62	G
21	i1	64	A
21	i1	67	C
21	i1	68	A
21	i1	69	C
21	i1	70	G
21	i1	72	C
21	i1	73	C
21	i1	74	G
21	i1	76	U
21	i1	77	A
21	i1	78	C
21	i1	79	A
21	i1	83	A
21	i1	84	A
21	i1	98	C
21	i1	99	A
21	i1	103	A
21	i1	113	G

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Mol	Chain	Res	Type
21	i1	114	G
21	i1	126	G
21	i1	127	C
21	i1	140	C
21	i1	141	A
21	i1	142	C
21	i1	144	U
21	i1	148	U
21	i1	153	G
21	i1	154	U
21	i1	155	G
21	i1	156	G
21	i1	160	U
21	i1	161	U
21	i1	162	C
21	i1	163	U
21	i1	167	G
21	i1	168	C
21	i1	171	A
21	i1	172	U
21	i1	175	A
21	i1	177	G
21	i1	178	C
21	i1	180	G
21	i1	181	A
21	i1	184	G
21	i1	185	G
21	i1	186	C
21	i1	188	C
21	i1	190	G
21	i1	191	A
21	i1	192	C
21	i1	198	U
21	i1	201	C
21	i1	202	G
21	i1	208	G
21	i1	209	A
21	i1	210	U
21	i1	211	G
21	i1	214	U
21	i1	215	G
21	i1	216	C

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Mol	Chain	Res	Type
21	i1	219	U
21	i1	291	G
21	i1	292	A
21	i1	293	C
21	i1	295	C
21	i1	299	A
21	i1	304	C
21	i1	305	U
21	i1	306	C
21	i1	307	G
21	i1	308	G
21	i1	309	G
21	i1	312	G
21	i1	313	A
21	i1	314	U
21	i1	319	C
21	i1	320	G
21	i1	323	C
21	i1	324	C
21	i1	325	C
21	i1	326	C
21	i1	328	U
21	i1	329	G
21	i1	330	G
21	i1	333	G
21	i1	334	C
21	i1	337	C
21	i1	338	G
21	i1	339	A
21	i1	340	C
21	i1	341	C
21	i1	342	C
21	i1	343	A
21	i1	347	G
21	i1	351	G
21	i1	354	U
21	i1	360	A
21	i1	361	U
21	i1	362	C
21	i1	364	A
21	i1	369	C
21	i1	370	G

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Mol	Chain	Res	Type
21	i1	371	A
21	i1	385	G
21	i1	386	C
21	i1	388	U
21	i1	391	C
21	i1	400	C
21	i1	401	A
21	i1	402	C
21	i1	407	G
21	i1	408	A
21	i1	409	C
21	i1	411	G
21	i1	413	G
21	i1	417	C
21	i1	418	A
21	i1	423	U
21	i1	426	A
21	i1	429	C
21	i1	434	G
21	i1	435	A
21	i1	436	G
21	i1	438	G
21	i1	441	C
21	i1	448	A
21	i1	449	A
21	i1	450	C
21	i1	452	G
21	i1	459	C
21	i1	464	A
21	i1	465	A
21	i1	466	G
21	i1	467	G
21	i1	469	A
21	i1	472	C
21	i1	473	A
21	i1	474	G
21	i1	482	G
21	i1	487	U
21	i1	488	U
21	i1	489	A
21	i1	492	C
21	i1	493	A

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Mol	Chain	Res	Type
21	i1	495	U
21	i1	502	C
21	i1	503	C
21	i1	505	G
21	i1	507	G
21	i1	516	A
21	i1	517	C
21	i1	524	U
21	i1	528	A
21	i1	529	A
21	i1	530	U
21	i1	532	C
21	i1	533	A
21	i1	534	G
21	i1	535	G
21	i1	537	C
21	i1	538	U
21	i1	539	C
21	i1	540	U
21	i1	542	U
21	i1	544	G
21	i1	545	A
21	i1	547	G
21	i1	549	C
21	i1	550	C
21	i1	551	U
21	i1	556	U
21	i1	557	U
21	i1	559	G
21	i1	560	A
21	i1	561	A
21	i1	563	G
21	i1	566	U
21	i1	574	A
21	i1	575	A
21	i1	576	A
21	i1	581	U
21	i1	582	C
21	i1	584	G
21	i1	585	C
21	i1	587	A
21	i1	588	G

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Mol	Chain	Res	Type
21	i1	589	G
21	i1	590	A
21	i1	591	U
21	i1	592	C
21	i1	593	C
21	i1	596	U
21	i1	604	A
21	i1	605	A
21	i1	606	G
21	i1	607	U
21	i1	608	C
21	i1	613	G
21	i1	621	C
21	i1	627	U
21	i1	628	A
21	i1	629	A
21	i1	631	U
21	i1	634	A
21	i1	638	C
21	i1	643	A
21	i1	644	G
21	i1	651	U
21	i1	655	A
21	i1	656	G
21	i1	657	U
21	i1	660	C
21	i1	666	U
21	i1	669	A
21	i1	670	A
21	i1	671	A
21	i1	672	A
21	i1	673	G
21	i1	675	U
21	i1	679	A
21	i1	683	G
21	i1	685	A
21	i1	686	U
21	i1	687	C
21	i1	688	U
21	i1	689	U
21	i1	690	G
21	i1	691	G

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Mol	Chain	Res	Type
21	i1	692	G
21	i1	693	A
21	i1	694	G
21	i1	695	C
21	i1	696	G
21	i1	697	G
21	i1	698	G
21	i1	732	U
21	i1	733	C
21	i1	734	C
21	i1	735	C
21	i1	736	C
21	i1	738	C
21	i1	739	C
21	i1	746	C
21	i1	747	U
21	i1	749	U
21	i1	750	C
21	i1	751	G
21	i1	752	G
21	i1	753	C
21	i1	787	G
21	i1	788	G
21	i1	789	G
21	i1	790	C
21	i1	791	C
21	i1	794	A
21	i1	795	A
21	i1	796	G
21	i1	797	C
21	i1	798	A
21	i1	800	U
21	i1	810	A
21	i1	811	A
21	i1	812	A
21	i1	813	A
21	i1	815	U
21	i1	818	A
21	i1	821	G
21	i1	822	U
21	i1	823	U
21	i1	830	A

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Mol	Chain	Res	Type
21	i1	834	C
21	i1	835	C
21	i1	837	A
21	i1	838	G
21	i1	839	C
21	i1	840	C
21	i1	841	G
21	i1	842	C
21	i1	843	C
21	i1	847	A
21	i1	848	U
21	i1	853	C
21	i1	864	A
21	i1	865	A
21	i1	869	A
21	i1	870	A
21	i1	873	G
21	i1	874	G
21	i1	876	C
21	i1	877	C
21	i1	878	G
21	i1	879	C
21	i1	881	G
21	i1	883	U
21	i1	887	U
21	i1	888	U
21	i1	889	U
21	i1	890	U
21	i1	891	G
21	i1	892	U
21	i1	893	U
21	i1	894	G
21	i1	896	U
21	i1	897	U
21	i1	899	U
21	i1	900	C
21	i1	901	G
21	i1	902	G
21	i1	903	A
21	i1	904	A
21	i1	907	G
21	i1	908	A

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Mol	Chain	Res	Type
21	i1	909	G
21	i1	913	A
21	i1	914	U
21	i1	917	U
21	i1	919	A
21	i1	920	A
21	i1	930	C
21	i1	933	G
21	i1	934	G
21	i1	939	U
21	i1	943	U
21	i1	952	G
21	i1	954	U
21	i1	955	A
21	i1	956	G
21	i1	958	G
21	i1	961	G
21	i1	963	A
21	i1	964	A
21	i1	965	U
21	i1	969	U
21	i1	970	G
21	i1	971	G
21	i1	972	A
21	i1	973	C
21	i1	978	G
21	i1	979	C
21	i1	981	A
21	i1	990	A
21	i1	992	A
21	i1	996	A
21	i1	999	G
21	i1	1002	U
21	i1	1008	A
21	i1	1017	U
21	i1	1022	U
21	i1	1023	A
21	i1	1027	A
21	i1	1028	A
21	i1	1029	G
21	i1	1041	G
21	i1	1042	A

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Mol	Chain	Res	Type
21	i1	1044	G
21	i1	1052	A
21	i1	1059	G
21	i1	1060	A
21	i1	1061	U
21	i1	1062	A
21	i1	1068	G
21	i1	1076	G
21	i1	1081	U
21	i1	1083	A
21	i1	1084	A
21	i1	1085	C
21	i1	1087	A
21	i1	1088	U
21	i1	1110	G
21	i1	1113	A
21	i1	1114	U
21	i1	1115	U
21	i1	1116	C
21	i1	1118	C
21	i1	1119	A
21	i1	1120	U
21	i1	1126	G
21	i1	1134	G
21	i1	1138	C
21	i1	1139	C
21	i1	1148	A
21	i1	1149	A
21	i1	1150	A
21	i1	1153	C
21	i1	1154	U
21	i1	1155	U
21	i1	1157	G
21	i1	1166	G
21	i1	1170	A
21	i1	1171	G
21	i1	1172	U
21	i1	1175	G
21	i1	1180	C
21	i1	1181	A
21	i1	1186	U
21	i1	1194	A

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Mol	Chain	Res	Type
21	i1	1195	A
21	i1	1198	G
21	i1	1208	A
21	i1	1212	G
21	i1	1213	C
21	i1	1214	A
21	i1	1215	C
21	i1	1216	C
21	i1	1217	A
21	i1	1224	G
21	i1	1231	C
21	i1	1238	U
21	i1	1240	A
21	i1	1241	A
21	i1	1242	U
21	i1	1248	U
21	i1	1250	A
21	i1	1251	A
21	i1	1253	A
21	i1	1256	G
21	i1	1257	G
21	i1	1258	A
21	i1	1259	A
21	i1	1260	A
21	i1	1264	C
21	i1	1265	A
21	i1	1268	C
21	i1	1269	G
21	i1	1271	C
21	i1	1274	G
21	i1	1275	G
21	i1	1276	A
21	i1	1277	C
21	i1	1280	G
21	i1	1281	G
21	i1	1283	C
21	i1	1284	A
21	i1	1287	A
21	i1	1288	U
21	i1	1289	U
21	i1	1290	G
21	i1	1292	C

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Mol	Chain	Res	Type
21	i1	1294	G
21	i1	1295	A
21	i1	1296	U
21	i1	1297	U
21	i1	1298	G
21	i1	1299	A
21	i1	1300	U
21	i1	1301	A
21	i1	1302	G
21	i1	1303	C
21	i1	1305	C
21	i1	1306	U
21	i1	1307	U
21	i1	1308	U
21	i1	1310	U
21	i1	1311	C
21	i1	1313	A
21	i1	1315	U
21	i1	1317	C
21	i1	1318	G
21	i1	1321	G
21	i1	1323	U
21	i1	1324	G
21	i1	1330	G
21	i1	1331	C
21	i1	1332	A
21	i1	1337	C
21	i1	1341	C
21	i1	1342	U
21	i1	1343	U
21	i1	1363	C
21	i1	1364	U
21	i1	1371	U
21	i1	1372	U
21	i1	1373	C
21	i1	1378	A
21	i1	1383	A
21	i1	1393	G
21	i1	1396	A
21	i1	1397	U
21	i1	1398	G
21	i1	1404	U

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Mol	Chain	Res	Type
21	i1	1405	A
21	i1	1407	U
21	i1	1409	A
21	i1	1410	C
21	i1	1412	C
21	i1	1413	G
21	i1	1414	A
21	i1	1415	C
21	i1	1416	C
21	i1	1418	C
21	i1	1419	C
21	i1	1420	G
21	i1	1423	C
21	i1	1424	G
21	i1	1425	G
21	i1	1427	C
21	i1	1428	G
21	i1	1431	G
21	i1	1432	U
21	i1	1434	C
21	i1	1436	C
21	i1	1437	C
21	i1	1438	A
21	i1	1442	U
21	i1	1448	A
21	i1	1449	G
21	i1	1454	A
21	i1	1455	A
21	i1	1456	G
21	i1	1457	U
21	i1	1458	G
21	i1	1463	U
21	i1	1464	C
21	i1	1468	C
21	i1	1471	C
21	i1	1472	C
21	i1	1473	G
21	i1	1475	G
21	i1	1476	A
21	i1	1477	U
21	i1	1480	A
21	i1	1481	G

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Mol	Chain	Res	Type
21	i1	1484	A
21	i1	1487	A
21	i1	1489	A
21	i1	1490	G
21	i1	1493	C
21	i1	1494	U
21	i1	1495	G
21	i1	1497	G
21	i1	1498	A
21	i1	1505	U
21	i1	1506	A
21	i1	1507	G
21	i1	1508	A
21	i1	1509	U
21	i1	1510	G
21	i1	1512	C
21	i1	1513	C
21	i1	1515	G
21	i1	1520	G
21	i1	1521	C
21	i1	1522	A
21	i1	1523	C
21	i1	1525	C
21	i1	1526	G
21	i1	1527	C
21	i1	1531	A
21	i1	1533	A
21	i1	1535	U
21	i1	1536	G
21	i1	1538	C
21	i1	1540	G
21	i1	1543	U
21	i1	1545	A
21	i1	1546	G
21	i1	1550	G
21	i1	1551	U
21	i1	1552	G
21	i1	1553	C
21	i1	1554	C
21	i1	1555	U
21	i1	1556	A
21	i1	1557	C

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Mol	Chain	Res	Type
21	i1	1558	C
21	i1	1567	G
21	i1	1568	C
21	i1	1569	A
21	i1	1570	G
21	i1	1573	G
21	i1	1574	C
21	i1	1575	G
21	i1	1579	A
21	i1	1580	A
21	i1	1581	C
21	i1	1585	U
21	i1	1586	U
21	i1	1587	G
21	i1	1588	A
21	i1	1589	A
21	i1	1598	G
21	i1	1599	U
21	i1	1600	G
21	i1	1603	G
21	i1	1614	A
21	i1	1621	U
21	i1	1623	A
21	i1	1626	C
21	i1	1636	G
21	i1	1637	A
21	i1	1638	G
21	i1	1639	G
21	i1	1640	A
21	i1	1644	C
21	i1	1648	G
21	i1	1651	A
21	i1	1653	U
21	i1	1654	G
21	i1	1655	C
21	i1	1660	C
21	i1	1661	A
21	i1	1662	U
21	i1	1663	A
21	i1	1664	A
21	i1	1665	G
21	i1	1679	A

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Mol	Chain	Res	Type
21	i1	1680	G
21	i1	1686	G
21	i1	1688	C
21	i1	1690	U
21	i1	1694	U
21	i1	1695	A
21	i1	1697	A
21	i1	1698	C
21	i1	1714	U
21	i1	1719	A
21	i1	1721	U
21	i1	1722	G
21	i1	1729	U
21	i1	1730	U
21	i1	1735	A
21	i1	1737	G
21	i1	1742	C
21	i1	1743	G
21	i1	1744	G
21	i1	1745	A
21	i1	1746	U
21	i1	1748	G
21	i1	1751	C
21	i1	1752	C
21	i1	1754	G
21	i1	1755	C
21	i1	1757	G
21	i1	1758	G
21	i1	1772	C
21	i1	1773	C
21	i1	1775	U
21	i1	1776	G
21	i1	1777	G
21	i1	1781	A
21	i1	1783	C
21	i1	1784	G
21	i1	1786	U
21	i1	1805	G
21	i1	1812	U
21	i1	1813	A
21	i1	1814	G
21	i1	1823	A

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Mol	Chain	Res	Type
21	i1	1824	A
21	i1	1825	A
21	i1	1826	G
21	i1	1831	A
21	i1	1838	U
21	i1	1839	U
21	i1	1849	G
21	i1	1850	A
21	i1	1851	A
21	i1	1852	C
21	i1	1857	G
21	i1	1858	G
21	i1	1861	G
21	i1	1862	G
21	i1	1863	A
21	i1	1865	C
21	i1	1868	U
21	i1	1869	A
21	i2	2	A
21	i2	3	C
21	i2	4	C
21	i2	9	U
21	i2	17	C
21	i2	18	C
21	i2	25	A
21	i2	27	A
21	i2	31	U
21	i2	33	G
21	i2	41	G
21	i2	42	A
21	i2	44	U
21	i2	45	A
21	i2	46	A
21	i2	52	G
21	i2	56	G
21	i2	62	G
21	i2	64	A
21	i2	67	C
21	i2	68	A
21	i2	69	C
21	i2	70	G
21	i2	72	C

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Mol	Chain	Res	Type
21	i2	73	C
21	i2	74	G
21	i2	76	U
21	i2	77	A
21	i2	78	C
21	i2	79	A
21	i2	83	A
21	i2	84	A
21	i2	98	C
21	i2	99	A
21	i2	103	A
21	i2	113	G
21	i2	114	G
21	i2	126	G
21	i2	127	C
21	i2	140	C
21	i2	141	A
21	i2	142	C
21	i2	144	U
21	i2	148	U
21	i2	153	G
21	i2	154	U
21	i2	155	G
21	i2	156	G
21	i2	160	U
21	i2	161	U
21	i2	162	C
21	i2	163	U
21	i2	167	G
21	i2	168	C
21	i2	171	A
21	i2	172	U
21	i2	175	A
21	i2	177	G
21	i2	178	C
21	i2	180	G
21	i2	181	A
21	i2	183	G
21	i2	184	G
21	i2	185	G
21	i2	188	C
21	i2	189	U

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Mol	Chain	Res	Type
21	i2	190	G
21	i2	191	A
21	i2	192	C
21	i2	198	U
21	i2	201	C
21	i2	202	G
21	i2	208	G
21	i2	209	A
21	i2	210	U
21	i2	211	G
21	i2	214	U
21	i2	215	G
21	i2	219	U
21	i2	291	G
21	i2	292	A
21	i2	293	C
21	i2	295	C
21	i2	299	A
21	i2	304	C
21	i2	305	U
21	i2	306	C
21	i2	307	G
21	i2	308	G
21	i2	309	G
21	i2	312	G
21	i2	313	A
21	i2	314	U
21	i2	316	G
21	i2	319	C
21	i2	320	G
21	i2	323	C
21	i2	324	C
21	i2	325	C
21	i2	326	C
21	i2	328	U
21	i2	329	G
21	i2	330	G
21	i2	333	G
21	i2	334	C
21	i2	337	C
21	i2	338	G
21	i2	339	A

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Mol	Chain	Res	Type
21	i2	340	C
21	i2	341	C
21	i2	342	C
21	i2	343	A
21	i2	347	G
21	i2	351	G
21	i2	354	U
21	i2	360	A
21	i2	361	U
21	i2	362	C
21	i2	364	A
21	i2	369	C
21	i2	370	G
21	i2	371	A
21	i2	385	G
21	i2	386	C
21	i2	388	U
21	i2	391	C
21	i2	400	C
21	i2	401	A
21	i2	402	C
21	i2	407	G
21	i2	408	A
21	i2	409	C
21	i2	411	G
21	i2	413	G
21	i2	417	C
21	i2	418	A
21	i2	423	U
21	i2	426	A
21	i2	429	C
21	i2	434	G
21	i2	435	A
21	i2	436	G
21	i2	438	G
21	i2	441	C
21	i2	448	A
21	i2	449	A
21	i2	450	C
21	i2	452	G
21	i2	459	C
21	i2	464	A

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Mol	Chain	Res	Type
21	i2	465	A
21	i2	466	G
21	i2	467	G
21	i2	469	A
21	i2	472	C
21	i2	473	A
21	i2	474	G
21	i2	482	G
21	i2	487	U
21	i2	488	U
21	i2	489	A
21	i2	492	C
21	i2	493	A
21	i2	495	U
21	i2	502	C
21	i2	503	C
21	i2	505	G
21	i2	507	G
21	i2	516	A
21	i2	517	C
21	i2	524	U
21	i2	526	A
21	i2	529	A
21	i2	530	U
21	i2	532	C
21	i2	533	A
21	i2	534	G
21	i2	535	G
21	i2	537	C
21	i2	538	U
21	i2	539	C
21	i2	540	U
21	i2	542	U
21	i2	544	G
21	i2	545	A
21	i2	547	G
21	i2	549	C
21	i2	550	C
21	i2	551	U
21	i2	556	U
21	i2	557	U
21	i2	559	G

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Mol	Chain	Res	Type
21	i2	560	A
21	i2	561	A
21	i2	563	G
21	i2	566	U
21	i2	574	A
21	i2	575	A
21	i2	576	A
21	i2	581	U
21	i2	582	C
21	i2	584	G
21	i2	585	C
21	i2	587	A
21	i2	588	G
21	i2	589	G
21	i2	590	A
21	i2	591	U
21	i2	592	C
21	i2	593	C
21	i2	596	U
21	i2	604	A
21	i2	605	A
21	i2	606	G
21	i2	607	U
21	i2	608	C
21	i2	613	G
21	i2	621	C
21	i2	627	U
21	i2	628	A
21	i2	629	A
21	i2	631	U
21	i2	634	A
21	i2	643	A
21	i2	644	G
21	i2	651	U
21	i2	655	A
21	i2	656	G
21	i2	657	U
21	i2	660	C
21	i2	666	U
21	i2	669	A
21	i2	670	A
21	i2	671	A

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Mol	Chain	Res	Type
21	i2	672	A
21	i2	673	G
21	i2	675	U
21	i2	679	A
21	i2	683	G
21	i2	685	A
21	i2	686	U
21	i2	687	C
21	i2	688	U
21	i2	689	U
21	i2	690	G
21	i2	691	G
21	i2	692	G
21	i2	693	A
21	i2	694	G
21	i2	695	C
21	i2	696	G
21	i2	697	G
21	i2	698	G
21	i2	731	G
21	i2	732	U
21	i2	733	C
21	i2	734	C
21	i2	735	C
21	i2	736	C
21	i2	737	G
21	i2	738	C
21	i2	739	C
21	i2	746	C
21	i2	747	U
21	i2	749	U
21	i2	750	C
21	i2	751	G
21	i2	752	G
21	i2	753	C
21	i2	787	G
21	i2	788	G
21	i2	789	G
21	i2	790	C
21	i2	791	C
21	i2	794	A
21	i2	795	A

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Mol	Chain	Res	Type
21	i2	796	G
21	i2	797	C
21	i2	798	A
21	i2	800	U
21	i2	810	A
21	i2	811	A
21	i2	812	A
21	i2	813	A
21	i2	815	U
21	i2	818	A
21	i2	821	G
21	i2	822	U
21	i2	823	U
21	i2	830	A
21	i2	834	C
21	i2	835	C
21	i2	837	A
21	i2	838	G
21	i2	839	C
21	i2	840	C
21	i2	841	G
21	i2	842	C
21	i2	843	C
21	i2	847	A
21	i2	848	U
21	i2	853	C
21	i2	864	A
21	i2	865	A
21	i2	869	A
21	i2	870	A
21	i2	873	G
21	i2	874	G
21	i2	876	C
21	i2	877	C
21	i2	878	G
21	i2	879	C
21	i2	881	G
21	i2	883	U
21	i2	887	U
21	i2	888	U
21	i2	889	U
21	i2	890	U

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Mol	Chain	Res	Type
21	i2	891	G
21	i2	892	U
21	i2	893	U
21	i2	894	G
21	i2	896	U
21	i2	897	U
21	i2	899	U
21	i2	900	C
21	i2	901	G
21	i2	902	G
21	i2	903	A
21	i2	904	A
21	i2	907	G
21	i2	908	A
21	i2	909	G
21	i2	913	A
21	i2	914	U
21	i2	917	U
21	i2	919	A
21	i2	920	A
21	i2	930	C
21	i2	933	G
21	i2	934	G
21	i2	939	U
21	i2	943	U
21	i2	952	G
21	i2	954	U
21	i2	955	A
21	i2	956	G
21	i2	958	G
21	i2	961	G
21	i2	963	A
21	i2	964	A
21	i2	965	U
21	i2	970	G
21	i2	971	G
21	i2	972	A
21	i2	973	C
21	i2	978	G
21	i2	979	C
21	i2	981	A
21	i2	990	A

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Mol	Chain	Res	Type
21	i2	992	A
21	i2	996	A
21	i2	999	G
21	i2	1002	U
21	i2	1008	A
21	i2	1017	U
21	i2	1022	U
21	i2	1023	A
21	i2	1027	A
21	i2	1028	A
21	i2	1029	G
21	i2	1041	G
21	i2	1042	A
21	i2	1044	G
21	i2	1050	A
21	i2	1052	A
21	i2	1059	G
21	i2	1060	A
21	i2	1061	U
21	i2	1062	A
21	i2	1068	G
21	i2	1076	G
21	i2	1081	U
21	i2	1083	A
21	i2	1084	A
21	i2	1085	C
21	i2	1087	A
21	i2	1088	U
21	i2	1110	G
21	i2	1113	A
21	i2	1114	U
21	i2	1115	U
21	i2	1116	C
21	i2	1118	C
21	i2	1119	A
21	i2	1120	U
21	i2	1126	G
21	i2	1134	G
21	i2	1138	C
21	i2	1139	C
21	i2	1148	A
21	i2	1149	A

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Mol	Chain	Res	Type
21	i2	1150	A
21	i2	1153	C
21	i2	1154	U
21	i2	1155	U
21	i2	1157	G
21	i2	1166	G
21	i2	1170	A
21	i2	1171	G
21	i2	1172	U
21	i2	1175	G
21	i2	1180	C
21	i2	1181	A
21	i2	1186	U
21	i2	1194	A
21	i2	1195	A
21	i2	1198	G
21	i2	1208	A
21	i2	1212	G
21	i2	1213	C
21	i2	1214	A
21	i2	1215	C
21	i2	1216	C
21	i2	1217	A
21	i2	1224	G
21	i2	1231	C
21	i2	1238	U
21	i2	1240	A
21	i2	1241	A
21	i2	1242	U
21	i2	1248	U
21	i2	1250	A
21	i2	1251	A
21	i2	1253	A
21	i2	1256	G
21	i2	1257	G
21	i2	1258	A
21	i2	1259	A
21	i2	1260	A
21	i2	1264	C
21	i2	1265	A
21	i2	1268	C
21	i2	1269	G

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Mol	Chain	Res	Type
21	i2	1271	C
21	i2	1274	G
21	i2	1275	G
21	i2	1276	A
21	i2	1277	C
21	i2	1280	G
21	i2	1281	G
21	i2	1283	C
21	i2	1284	A
21	i2	1287	A
21	i2	1288	U
21	i2	1289	U
21	i2	1290	G
21	i2	1292	C
21	i2	1294	G
21	i2	1295	A
21	i2	1296	U
21	i2	1297	U
21	i2	1298	G
21	i2	1299	A
21	i2	1300	U
21	i2	1301	A
21	i2	1302	G
21	i2	1303	C
21	i2	1305	C
21	i2	1306	U
21	i2	1307	U
21	i2	1308	U
21	i2	1310	U
21	i2	1311	C
21	i2	1313	A
21	i2	1315	U
21	i2	1317	C
21	i2	1318	G
21	i2	1321	G
21	i2	1323	U
21	i2	1324	G
21	i2	1330	G
21	i2	1331	C
21	i2	1332	A
21	i2	1337	C
21	i2	1341	C

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Mol	Chain	Res	Type
21	i2	1342	U
21	i2	1343	U
21	i2	1363	C
21	i2	1364	U
21	i2	1371	U
21	i2	1372	U
21	i2	1373	C
21	i2	1378	A
21	i2	1383	A
21	i2	1393	G
21	i2	1396	A
21	i2	1397	U
21	i2	1398	G
21	i2	1404	U
21	i2	1405	A
21	i2	1407	U
21	i2	1409	A
21	i2	1410	C
21	i2	1412	C
21	i2	1413	G
21	i2	1414	A
21	i2	1415	C
21	i2	1416	C
21	i2	1418	C
21	i2	1419	C
21	i2	1420	G
21	i2	1423	C
21	i2	1424	G
21	i2	1425	G
21	i2	1427	C
21	i2	1428	G
21	i2	1431	G
21	i2	1432	U
21	i2	1434	C
21	i2	1436	C
21	i2	1437	C
21	i2	1438	A
21	i2	1442	U
21	i2	1448	A
21	i2	1449	G
21	i2	1454	A
21	i2	1455	A

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Mol	Chain	Res	Type
21	i2	1456	G
21	i2	1457	U
21	i2	1458	G
21	i2	1463	U
21	i2	1464	C
21	i2	1468	C
21	i2	1471	C
21	i2	1472	C
21	i2	1473	G
21	i2	1475	G
21	i2	1476	A
21	i2	1477	U
21	i2	1480	A
21	i2	1481	G
21	i2	1484	A
21	i2	1487	A
21	i2	1489	A
21	i2	1490	G
21	i2	1493	C
21	i2	1494	U
21	i2	1495	G
21	i2	1497	G
21	i2	1498	A
21	i2	1505	U
21	i2	1506	A
21	i2	1507	G
21	i2	1508	A
21	i2	1509	U
21	i2	1510	G
21	i2	1512	C
21	i2	1513	C
21	i2	1515	G
21	i2	1520	G
21	i2	1521	C
21	i2	1522	A
21	i2	1523	C
21	i2	1525	C
21	i2	1526	G
21	i2	1527	C
21	i2	1531	A
21	i2	1533	A
21	i2	1535	U

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Mol	Chain	Res	Type
21	i2	1536	G
21	i2	1538	C
21	i2	1540	G
21	i2	1543	U
21	i2	1545	A
21	i2	1546	G
21	i2	1550	G
21	i2	1551	U
21	i2	1552	G
21	i2	1553	C
21	i2	1554	C
21	i2	1555	U
21	i2	1556	A
21	i2	1557	C
21	i2	1558	C
21	i2	1567	G
21	i2	1568	C
21	i2	1569	A
21	i2	1570	G
21	i2	1573	G
21	i2	1574	C
21	i2	1575	G
21	i2	1579	A
21	i2	1580	A
21	i2	1581	C
21	i2	1585	U
21	i2	1586	U
21	i2	1587	G
21	i2	1588	A
21	i2	1589	A
21	i2	1598	G
21	i2	1599	U
21	i2	1600	G
21	i2	1603	G
21	i2	1614	A
21	i2	1621	U
21	i2	1623	A
21	i2	1626	C
21	i2	1636	G
21	i2	1637	A
21	i2	1638	G
21	i2	1639	G

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Mol	Chain	Res	Type
21	i2	1640	A
21	i2	1644	C
21	i2	1648	G
21	i2	1651	A
21	i2	1653	U
21	i2	1654	G
21	i2	1655	C
21	i2	1660	C
21	i2	1661	A
21	i2	1662	U
21	i2	1663	A
21	i2	1664	A
21	i2	1665	G
21	i2	1679	A
21	i2	1680	G
21	i2	1686	G
21	i2	1688	C
21	i2	1690	U
21	i2	1694	U
21	i2	1695	A
21	i2	1697	A
21	i2	1698	C
21	i2	1714	U
21	i2	1719	A
21	i2	1721	U
21	i2	1722	G
21	i2	1729	U
21	i2	1730	U
21	i2	1735	A
21	i2	1737	G
21	i2	1742	C
21	i2	1743	G
21	i2	1744	G
21	i2	1745	A
21	i2	1746	U
21	i2	1748	G
21	i2	1751	C
21	i2	1752	C
21	i2	1754	G
21	i2	1755	C
21	i2	1757	G
21	i2	1758	G

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Mol	Chain	Res	Type
21	i2	1772	C
21	i2	1773	C
21	i2	1775	U
21	i2	1776	G
21	i2	1777	G
21	i2	1781	A
21	i2	1784	G
21	i2	1786	U
21	i2	1805	G
21	i2	1812	U
21	i2	1813	A
21	i2	1814	G
21	i2	1823	A
21	i2	1824	A
21	i2	1825	A
21	i2	1826	G
21	i2	1829	G
21	i2	1831	A
21	i2	1835	A
21	i2	1838	U
21	i2	1839	U
21	i2	1849	G
21	i2	1850	A
21	i2	1851	A
21	i2	1852	C
21	i2	1857	G
21	i2	1858	G
21	i2	1861	G
21	i2	1862	G
21	i2	1863	A
21	i2	1865	C
21	i2	1868	U
21	i2	1869	A
21	i3	2	A
21	i3	3	C
21	i3	4	C
21	i3	9	U
21	i3	17	C
21	i3	18	C
21	i3	25	A
21	i3	27	A
21	i3	31	U

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Mol	Chain	Res	Type
21	i3	33	G
21	i3	41	G
21	i3	42	A
21	i3	44	U
21	i3	45	A
21	i3	46	A
21	i3	52	G
21	i3	56	G
21	i3	62	G
21	i3	64	A
21	i3	67	C
21	i3	68	A
21	i3	69	C
21	i3	70	G
21	i3	72	C
21	i3	73	C
21	i3	74	G
21	i3	76	U
21	i3	77	A
21	i3	78	C
21	i3	79	A
21	i3	83	A
21	i3	84	A
21	i3	98	C
21	i3	99	A
21	i3	103	A
21	i3	113	G
21	i3	114	G
21	i3	126	G
21	i3	127	C
21	i3	140	C
21	i3	141	A
21	i3	142	C
21	i3	144	U
21	i3	148	U
21	i3	153	G
21	i3	154	U
21	i3	155	G
21	i3	156	G
21	i3	160	U
21	i3	161	U
21	i3	162	C

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Mol	Chain	Res	Type
21	i3	163	U
21	i3	167	G
21	i3	168	C
21	i3	171	A
21	i3	172	U
21	i3	175	A
21	i3	177	G
21	i3	178	C
21	i3	180	G
21	i3	181	A
21	i3	183	G
21	i3	184	G
21	i3	185	G
21	i3	188	C
21	i3	189	U
21	i3	190	G
21	i3	191	A
21	i3	192	C
21	i3	198	U
21	i3	201	C
21	i3	202	G
21	i3	208	G
21	i3	209	A
21	i3	210	U
21	i3	211	G
21	i3	214	U
21	i3	215	G
21	i3	216	C
21	i3	219	U
21	i3	291	G
21	i3	292	A
21	i3	293	C
21	i3	295	C
21	i3	299	A
21	i3	304	C
21	i3	305	U
21	i3	306	C
21	i3	307	G
21	i3	308	G
21	i3	309	G
21	i3	312	G
21	i3	313	A

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Mol	Chain	Res	Type
21	i3	314	U
21	i3	319	C
21	i3	320	G
21	i3	323	C
21	i3	324	C
21	i3	325	C
21	i3	326	C
21	i3	328	U
21	i3	329	G
21	i3	330	G
21	i3	334	C
21	i3	337	C
21	i3	338	G
21	i3	339	A
21	i3	340	C
21	i3	341	C
21	i3	342	C
21	i3	343	A
21	i3	347	G
21	i3	351	G
21	i3	354	U
21	i3	360	A
21	i3	361	U
21	i3	362	C
21	i3	364	A
21	i3	369	C
21	i3	370	G
21	i3	371	A
21	i3	385	G
21	i3	386	C
21	i3	388	U
21	i3	391	C
21	i3	400	C
21	i3	401	A
21	i3	402	C
21	i3	407	G
21	i3	408	A
21	i3	409	C
21	i3	411	G
21	i3	413	G
21	i3	417	C
21	i3	418	A

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Mol	Chain	Res	Type
21	i3	423	U
21	i3	426	A
21	i3	429	C
21	i3	434	G
21	i3	435	A
21	i3	436	G
21	i3	438	G
21	i3	441	C
21	i3	448	A
21	i3	449	A
21	i3	450	C
21	i3	452	G
21	i3	459	C
21	i3	464	A
21	i3	465	A
21	i3	466	G
21	i3	467	G
21	i3	469	A
21	i3	472	C
21	i3	473	A
21	i3	474	G
21	i3	482	G
21	i3	487	U
21	i3	488	U
21	i3	489	A
21	i3	492	C
21	i3	493	A
21	i3	495	U
21	i3	502	C
21	i3	503	C
21	i3	505	G
21	i3	507	G
21	i3	516	A
21	i3	517	C
21	i3	528	A
21	i3	529	A
21	i3	530	U
21	i3	532	C
21	i3	533	A
21	i3	534	G
21	i3	535	G
21	i3	537	C

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Mol	Chain	Res	Type
21	i3	538	U
21	i3	539	C
21	i3	540	U
21	i3	542	U
21	i3	544	G
21	i3	545	A
21	i3	547	G
21	i3	549	C
21	i3	550	C
21	i3	551	U
21	i3	556	U
21	i3	557	U
21	i3	559	G
21	i3	560	A
21	i3	561	A
21	i3	563	G
21	i3	566	U
21	i3	574	A
21	i3	575	A
21	i3	576	A
21	i3	581	U
21	i3	582	C
21	i3	584	G
21	i3	585	C
21	i3	587	A
21	i3	588	G
21	i3	589	G
21	i3	590	A
21	i3	591	U
21	i3	592	C
21	i3	593	C
21	i3	596	U
21	i3	604	A
21	i3	605	A
21	i3	606	G
21	i3	607	U
21	i3	608	C
21	i3	613	G
21	i3	621	C
21	i3	627	U
21	i3	628	A
21	i3	629	A

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Mol	Chain	Res	Type
21	i3	631	U
21	i3	634	A
21	i3	643	A
21	i3	644	G
21	i3	651	U
21	i3	655	A
21	i3	656	G
21	i3	657	U
21	i3	660	C
21	i3	666	U
21	i3	669	A
21	i3	670	A
21	i3	671	A
21	i3	672	A
21	i3	673	G
21	i3	675	U
21	i3	679	A
21	i3	683	G
21	i3	685	A
21	i3	686	U
21	i3	687	C
21	i3	688	U
21	i3	689	U
21	i3	690	G
21	i3	692	G
21	i3	693	A
21	i3	694	G
21	i3	695	C
21	i3	696	G
21	i3	697	G
21	i3	698	G
21	i3	732	U
21	i3	733	C
21	i3	734	C
21	i3	735	C
21	i3	736	C
21	i3	737	G
21	i3	738	C
21	i3	739	C
21	i3	746	C
21	i3	747	U
21	i3	749	U

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Mol	Chain	Res	Type
21	i3	750	C
21	i3	751	G
21	i3	752	G
21	i3	753	C
21	i3	787	G
21	i3	788	G
21	i3	789	G
21	i3	790	C
21	i3	791	C
21	i3	794	A
21	i3	795	A
21	i3	796	G
21	i3	797	C
21	i3	798	A
21	i3	800	U
21	i3	810	A
21	i3	811	A
21	i3	812	A
21	i3	813	A
21	i3	815	U
21	i3	818	A
21	i3	821	G
21	i3	822	U
21	i3	823	U
21	i3	830	A
21	i3	834	C
21	i3	835	C
21	i3	837	A
21	i3	838	G
21	i3	839	C
21	i3	840	C
21	i3	841	G
21	i3	842	C
21	i3	843	C
21	i3	847	A
21	i3	848	U
21	i3	853	C
21	i3	864	A
21	i3	865	A
21	i3	869	A
21	i3	870	A
21	i3	873	G

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Mol	Chain	Res	Type
21	i3	874	G
21	i3	876	C
21	i3	877	C
21	i3	878	G
21	i3	879	C
21	i3	881	G
21	i3	883	U
21	i3	887	U
21	i3	888	U
21	i3	889	U
21	i3	890	U
21	i3	891	G
21	i3	892	U
21	i3	893	U
21	i3	894	G
21	i3	896	U
21	i3	897	U
21	i3	899	U
21	i3	900	C
21	i3	901	G
21	i3	902	G
21	i3	903	A
21	i3	904	A
21	i3	907	G
21	i3	908	A
21	i3	909	G
21	i3	913	A
21	i3	914	U
21	i3	917	U
21	i3	919	A
21	i3	920	A
21	i3	930	C
21	i3	933	G
21	i3	934	G
21	i3	939	U
21	i3	943	U
21	i3	952	G
21	i3	954	U
21	i3	955	A
21	i3	956	G
21	i3	958	G
21	i3	961	G

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Mol	Chain	Res	Type
21	i3	963	A
21	i3	964	A
21	i3	965	U
21	i3	970	G
21	i3	971	G
21	i3	972	A
21	i3	973	C
21	i3	978	G
21	i3	979	C
21	i3	981	A
21	i3	990	A
21	i3	992	A
21	i3	996	A
21	i3	999	G
21	i3	1002	U
21	i3	1008	A
21	i3	1017	U
21	i3	1022	U
21	i3	1023	A
21	i3	1027	A
21	i3	1028	A
21	i3	1029	G
21	i3	1041	G
21	i3	1042	A
21	i3	1044	G
21	i3	1052	A
21	i3	1059	G
21	i3	1060	A
21	i3	1061	U
21	i3	1062	A
21	i3	1068	G
21	i3	1076	G
21	i3	1081	U
21	i3	1083	A
21	i3	1084	A
21	i3	1085	C
21	i3	1087	A
21	i3	1088	U
21	i3	1110	G
21	i3	1113	A
21	i3	1114	U
21	i3	1115	U

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Mol	Chain	Res	Type
21	i3	1116	C
21	i3	1118	C
21	i3	1119	A
21	i3	1120	U
21	i3	1126	G
21	i3	1134	G
21	i3	1138	C
21	i3	1139	C
21	i3	1148	A
21	i3	1149	A
21	i3	1150	A
21	i3	1153	C
21	i3	1154	U
21	i3	1155	U
21	i3	1157	G
21	i3	1166	G
21	i3	1170	A
21	i3	1171	G
21	i3	1172	U
21	i3	1175	G
21	i3	1180	C
21	i3	1181	A
21	i3	1186	U
21	i3	1194	A
21	i3	1195	A
21	i3	1198	G
21	i3	1208	A
21	i3	1212	G
21	i3	1213	C
21	i3	1214	A
21	i3	1215	C
21	i3	1216	C
21	i3	1217	A
21	i3	1224	G
21	i3	1231	C
21	i3	1238	U
21	i3	1240	A
21	i3	1241	A
21	i3	1242	U
21	i3	1248	U
21	i3	1250	A
21	i3	1251	A

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Mol	Chain	Res	Type
21	i3	1253	A
21	i3	1256	G
21	i3	1257	G
21	i3	1258	A
21	i3	1259	A
21	i3	1260	A
21	i3	1264	C
21	i3	1265	A
21	i3	1268	C
21	i3	1269	G
21	i3	1271	C
21	i3	1274	G
21	i3	1275	G
21	i3	1276	A
21	i3	1277	C
21	i3	1280	G
21	i3	1281	G
21	i3	1283	C
21	i3	1284	A
21	i3	1287	A
21	i3	1288	U
21	i3	1289	U
21	i3	1290	G
21	i3	1292	C
21	i3	1294	G
21	i3	1295	A
21	i3	1296	U
21	i3	1297	U
21	i3	1298	G
21	i3	1299	A
21	i3	1300	U
21	i3	1301	A
21	i3	1302	G
21	i3	1303	C
21	i3	1305	C
21	i3	1306	U
21	i3	1307	U
21	i3	1308	U
21	i3	1310	U
21	i3	1311	C
21	i3	1313	A
21	i3	1315	U

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Mol	Chain	Res	Type
21	i3	1317	C
21	i3	1318	G
21	i3	1321	G
21	i3	1323	U
21	i3	1324	G
21	i3	1330	G
21	i3	1331	C
21	i3	1332	A
21	i3	1337	C
21	i3	1341	C
21	i3	1342	U
21	i3	1343	U
21	i3	1363	C
21	i3	1364	U
21	i3	1371	U
21	i3	1372	U
21	i3	1373	C
21	i3	1378	A
21	i3	1383	A
21	i3	1393	G
21	i3	1396	A
21	i3	1397	U
21	i3	1398	G
21	i3	1404	U
21	i3	1405	A
21	i3	1407	U
21	i3	1409	A
21	i3	1410	C
21	i3	1412	C
21	i3	1413	G
21	i3	1414	A
21	i3	1415	C
21	i3	1416	C
21	i3	1418	C
21	i3	1419	C
21	i3	1420	G
21	i3	1423	C
21	i3	1424	G
21	i3	1425	G
21	i3	1427	C
21	i3	1428	G
21	i3	1431	G

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Mol	Chain	Res	Type
21	i3	1432	U
21	i3	1434	C
21	i3	1436	C
21	i3	1437	C
21	i3	1438	A
21	i3	1442	U
21	i3	1448	A
21	i3	1449	G
21	i3	1454	A
21	i3	1455	A
21	i3	1456	G
21	i3	1457	U
21	i3	1458	G
21	i3	1463	U
21	i3	1464	C
21	i3	1468	C
21	i3	1471	C
21	i3	1472	C
21	i3	1473	G
21	i3	1475	G
21	i3	1476	A
21	i3	1477	U
21	i3	1480	A
21	i3	1481	G
21	i3	1484	A
21	i3	1487	A
21	i3	1489	A
21	i3	1490	G
21	i3	1493	C
21	i3	1494	U
21	i3	1495	G
21	i3	1497	G
21	i3	1498	A
21	i3	1505	U
21	i3	1506	A
21	i3	1507	G
21	i3	1508	A
21	i3	1509	U
21	i3	1510	G
21	i3	1512	C
21	i3	1513	C
21	i3	1515	G

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Mol	Chain	Res	Type
21	i3	1520	G
21	i3	1521	C
21	i3	1522	A
21	i3	1523	C
21	i3	1525	C
21	i3	1526	G
21	i3	1527	C
21	i3	1531	A
21	i3	1533	A
21	i3	1535	U
21	i3	1536	G
21	i3	1538	C
21	i3	1540	G
21	i3	1543	U
21	i3	1545	A
21	i3	1546	G
21	i3	1550	G
21	i3	1551	U
21	i3	1552	G
21	i3	1553	C
21	i3	1554	C
21	i3	1555	U
21	i3	1556	A
21	i3	1557	C
21	i3	1558	C
21	i3	1567	G
21	i3	1568	C
21	i3	1569	A
21	i3	1570	G
21	i3	1573	G
21	i3	1574	C
21	i3	1575	G
21	i3	1579	A
21	i3	1580	A
21	i3	1581	C
21	i3	1585	U
21	i3	1586	U
21	i3	1587	G
21	i3	1588	A
21	i3	1589	A
21	i3	1598	G
21	i3	1599	U

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Mol	Chain	Res	Type
21	i3	1600	G
21	i3	1603	G
21	i3	1614	A
21	i3	1621	U
21	i3	1623	A
21	i3	1626	C
21	i3	1636	G
21	i3	1637	A
21	i3	1638	G
21	i3	1639	G
21	i3	1640	A
21	i3	1644	C
21	i3	1648	G
21	i3	1651	A
21	i3	1653	U
21	i3	1654	G
21	i3	1655	C
21	i3	1660	C
21	i3	1661	A
21	i3	1662	U
21	i3	1663	A
21	i3	1664	A
21	i3	1665	G
21	i3	1679	A
21	i3	1680	G
21	i3	1686	G
21	i3	1688	C
21	i3	1690	U
21	i3	1694	U
21	i3	1695	A
21	i3	1697	A
21	i3	1698	C
21	i3	1714	U
21	i3	1719	A
21	i3	1721	U
21	i3	1722	G
21	i3	1729	U
21	i3	1730	U
21	i3	1735	A
21	i3	1737	G
21	i3	1742	C
21	i3	1743	G

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Mol	Chain	Res	Type
21	i3	1744	G
21	i3	1745	A
21	i3	1746	U
21	i3	1748	G
21	i3	1751	C
21	i3	1752	C
21	i3	1754	G
21	i3	1755	C
21	i3	1757	G
21	i3	1758	G
21	i3	1772	C
21	i3	1773	C
21	i3	1775	U
21	i3	1776	G
21	i3	1777	G
21	i3	1781	A
21	i3	1784	G
21	i3	1785	C
21	i3	1786	U
21	i3	1805	G
21	i3	1812	U
21	i3	1813	A
21	i3	1814	G
21	i3	1823	A
21	i3	1824	A
21	i3	1825	A
21	i3	1826	G
21	i3	1831	A
21	i3	1833	C
21	i3	1835	A
21	i3	1838	U
21	i3	1839	U
21	i3	1849	G
21	i3	1850	A
21	i3	1851	A
21	i3	1852	C
21	i3	1857	G
21	i3	1858	G
21	i3	1861	G
21	i3	1862	G
21	i3	1863	A
21	i3	1865	C

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Mol	Chain	Res	Type
21	i3	1868	U
21	i3	1869	A
21	i4	2	A
21	i4	3	C
21	i4	4	C
21	i4	9	U
21	i4	17	C
21	i4	18	C
21	i4	25	A
21	i4	27	A
21	i4	31	U
21	i4	33	G
21	i4	41	G
21	i4	42	A
21	i4	44	U
21	i4	45	A
21	i4	46	A
21	i4	52	G
21	i4	56	G
21	i4	62	G
21	i4	64	A
21	i4	67	C
21	i4	68	A
21	i4	69	C
21	i4	70	G
21	i4	72	C
21	i4	73	C
21	i4	74	G
21	i4	76	U
21	i4	77	A
21	i4	78	C
21	i4	79	A
21	i4	83	A
21	i4	84	A
21	i4	98	C
21	i4	99	A
21	i4	103	A
21	i4	113	G
21	i4	114	G
21	i4	126	G
21	i4	127	C
21	i4	140	C

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Mol	Chain	Res	Type
21	i4	141	A
21	i4	142	C
21	i4	144	U
21	i4	148	U
21	i4	153	G
21	i4	154	U
21	i4	155	G
21	i4	156	G
21	i4	160	U
21	i4	161	U
21	i4	162	C
21	i4	163	U
21	i4	167	G
21	i4	168	C
21	i4	171	A
21	i4	172	U
21	i4	175	A
21	i4	177	G
21	i4	178	C
21	i4	180	G
21	i4	181	A
21	i4	183	G
21	i4	184	G
21	i4	185	G
21	i4	186	C
21	i4	188	C
21	i4	190	G
21	i4	191	A
21	i4	192	C
21	i4	198	U
21	i4	201	C
21	i4	202	G
21	i4	208	G
21	i4	209	A
21	i4	210	U
21	i4	211	G
21	i4	212	C
21	i4	215	G
21	i4	216	C
21	i4	219	U
21	i4	291	G
21	i4	292	A

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Mol	Chain	Res	Type
21	i4	293	C
21	i4	295	C
21	i4	299	A
21	i4	304	C
21	i4	305	U
21	i4	306	C
21	i4	307	G
21	i4	308	G
21	i4	309	G
21	i4	312	G
21	i4	313	A
21	i4	314	U
21	i4	319	C
21	i4	320	G
21	i4	323	C
21	i4	324	C
21	i4	325	C
21	i4	326	C
21	i4	328	U
21	i4	329	G
21	i4	330	G
21	i4	334	C
21	i4	335	G
21	i4	337	C
21	i4	338	G
21	i4	339	A
21	i4	340	C
21	i4	341	C
21	i4	342	C
21	i4	343	A
21	i4	347	G
21	i4	351	G
21	i4	354	U
21	i4	360	A
21	i4	361	U
21	i4	362	C
21	i4	364	A
21	i4	369	C
21	i4	370	G
21	i4	371	A
21	i4	385	G
21	i4	386	C

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Mol	Chain	Res	Type
21	i4	388	U
21	i4	391	C
21	i4	400	C
21	i4	401	A
21	i4	402	C
21	i4	407	G
21	i4	408	A
21	i4	409	C
21	i4	411	G
21	i4	413	G
21	i4	417	C
21	i4	418	A
21	i4	423	U
21	i4	426	A
21	i4	429	C
21	i4	434	G
21	i4	435	A
21	i4	436	G
21	i4	438	G
21	i4	441	C
21	i4	448	A
21	i4	449	A
21	i4	450	C
21	i4	452	G
21	i4	459	C
21	i4	464	A
21	i4	465	A
21	i4	466	G
21	i4	467	G
21	i4	469	A
21	i4	472	C
21	i4	473	A
21	i4	474	G
21	i4	482	G
21	i4	487	U
21	i4	488	U
21	i4	489	A
21	i4	492	C
21	i4	493	A
21	i4	495	U
21	i4	502	C
21	i4	503	C

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Mol	Chain	Res	Type
21	i4	505	G
21	i4	507	G
21	i4	516	A
21	i4	517	C
21	i4	524	U
21	i4	527	C
21	i4	529	A
21	i4	530	U
21	i4	532	C
21	i4	533	A
21	i4	534	G
21	i4	535	G
21	i4	537	C
21	i4	538	U
21	i4	539	C
21	i4	540	U
21	i4	542	U
21	i4	544	G
21	i4	545	A
21	i4	547	G
21	i4	549	C
21	i4	550	C
21	i4	551	U
21	i4	556	U
21	i4	559	G
21	i4	560	A
21	i4	563	G
21	i4	566	U
21	i4	574	A
21	i4	575	A
21	i4	576	A
21	i4	581	U
21	i4	582	C
21	i4	584	G
21	i4	585	C
21	i4	587	A
21	i4	588	G
21	i4	589	G
21	i4	590	A
21	i4	591	U
21	i4	592	C
21	i4	593	C

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Mol	Chain	Res	Type
21	i4	596	U
21	i4	604	A
21	i4	605	A
21	i4	606	G
21	i4	607	U
21	i4	608	C
21	i4	613	G
21	i4	621	C
21	i4	627	U
21	i4	628	A
21	i4	629	A
21	i4	631	U
21	i4	634	A
21	i4	643	A
21	i4	644	G
21	i4	651	U
21	i4	655	A
21	i4	656	G
21	i4	657	U
21	i4	660	C
21	i4	666	U
21	i4	669	A
21	i4	670	A
21	i4	671	A
21	i4	672	A
21	i4	673	G
21	i4	675	U
21	i4	679	A
21	i4	683	G
21	i4	685	A
21	i4	686	U
21	i4	687	C
21	i4	688	U
21	i4	689	U
21	i4	690	G
21	i4	691	G
21	i4	692	G
21	i4	694	G
21	i4	695	C
21	i4	696	G
21	i4	697	G
21	i4	698	G

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Mol	Chain	Res	Type
21	i4	732	U
21	i4	733	C
21	i4	734	C
21	i4	735	C
21	i4	736	C
21	i4	738	C
21	i4	739	C
21	i4	746	C
21	i4	747	U
21	i4	749	U
21	i4	750	C
21	i4	751	G
21	i4	752	G
21	i4	753	C
21	i4	787	G
21	i4	788	G
21	i4	789	G
21	i4	790	C
21	i4	791	C
21	i4	794	A
21	i4	795	A
21	i4	796	G
21	i4	797	C
21	i4	798	A
21	i4	800	U
21	i4	810	A
21	i4	811	A
21	i4	812	A
21	i4	813	A
21	i4	815	U
21	i4	818	A
21	i4	821	G
21	i4	822	U
21	i4	823	U
21	i4	830	A
21	i4	834	C
21	i4	835	C
21	i4	837	A
21	i4	838	G
21	i4	839	C
21	i4	840	C
21	i4	841	G

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Mol	Chain	Res	Type
21	i4	842	C
21	i4	843	C
21	i4	847	A
21	i4	848	U
21	i4	853	C
21	i4	864	A
21	i4	865	A
21	i4	869	A
21	i4	870	A
21	i4	873	G
21	i4	874	G
21	i4	876	C
21	i4	877	C
21	i4	878	G
21	i4	879	C
21	i4	881	G
21	i4	883	U
21	i4	887	U
21	i4	888	U
21	i4	889	U
21	i4	890	U
21	i4	891	G
21	i4	892	U
21	i4	893	U
21	i4	894	G
21	i4	896	U
21	i4	897	U
21	i4	899	U
21	i4	900	C
21	i4	901	G
21	i4	902	G
21	i4	903	A
21	i4	904	A
21	i4	907	G
21	i4	908	A
21	i4	909	G
21	i4	913	A
21	i4	914	U
21	i4	917	U
21	i4	919	A
21	i4	920	A
21	i4	930	C

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Mol	Chain	Res	Type
21	i4	933	G
21	i4	934	G
21	i4	939	U
21	i4	943	U
21	i4	952	G
21	i4	954	U
21	i4	955	A
21	i4	956	G
21	i4	958	G
21	i4	961	G
21	i4	963	A
21	i4	964	A
21	i4	965	U
21	i4	970	G
21	i4	971	G
21	i4	972	A
21	i4	973	C
21	i4	978	G
21	i4	979	C
21	i4	981	A
21	i4	990	A
21	i4	992	A
21	i4	996	A
21	i4	999	G
21	i4	1002	U
21	i4	1008	A
21	i4	1017	U
21	i4	1022	U
21	i4	1023	A
21	i4	1027	A
21	i4	1028	A
21	i4	1029	G
21	i4	1041	G
21	i4	1042	A
21	i4	1044	G
21	i4	1052	A
21	i4	1059	G
21	i4	1060	A
21	i4	1061	U
21	i4	1062	A
21	i4	1068	G
21	i4	1076	G

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Mol	Chain	Res	Type
21	i4	1081	U
21	i4	1083	A
21	i4	1084	A
21	i4	1085	C
21	i4	1087	A
21	i4	1088	U
21	i4	1110	G
21	i4	1113	A
21	i4	1114	U
21	i4	1115	U
21	i4	1116	C
21	i4	1118	C
21	i4	1119	A
21	i4	1120	U
21	i4	1126	G
21	i4	1134	G
21	i4	1138	C
21	i4	1139	C
21	i4	1148	A
21	i4	1149	A
21	i4	1150	A
21	i4	1153	C
21	i4	1154	U
21	i4	1155	U
21	i4	1157	G
21	i4	1166	G
21	i4	1170	A
21	i4	1171	G
21	i4	1172	U
21	i4	1175	G
21	i4	1180	C
21	i4	1181	A
21	i4	1186	U
21	i4	1194	A
21	i4	1195	A
21	i4	1198	G
21	i4	1208	A
21	i4	1212	G
21	i4	1213	C
21	i4	1214	A
21	i4	1215	C
21	i4	1216	C

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Mol	Chain	Res	Type
21	i4	1217	A
21	i4	1224	G
21	i4	1231	C
21	i4	1238	U
21	i4	1240	A
21	i4	1241	A
21	i4	1242	U
21	i4	1248	U
21	i4	1250	A
21	i4	1251	A
21	i4	1253	A
21	i4	1256	G
21	i4	1257	G
21	i4	1258	A
21	i4	1259	A
21	i4	1260	A
21	i4	1264	C
21	i4	1265	A
21	i4	1268	C
21	i4	1269	G
21	i4	1271	C
21	i4	1274	G
21	i4	1275	G
21	i4	1276	A
21	i4	1277	C
21	i4	1280	G
21	i4	1281	G
21	i4	1283	C
21	i4	1284	A
21	i4	1287	A
21	i4	1288	U
21	i4	1289	U
21	i4	1290	G
21	i4	1292	C
21	i4	1294	G
21	i4	1295	A
21	i4	1296	U
21	i4	1297	U
21	i4	1298	G
21	i4	1299	A
21	i4	1300	U
21	i4	1301	A

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Mol	Chain	Res	Type
21	i4	1302	G
21	i4	1303	C
21	i4	1305	C
21	i4	1306	U
21	i4	1307	U
21	i4	1308	U
21	i4	1310	U
21	i4	1311	C
21	i4	1313	A
21	i4	1315	U
21	i4	1317	C
21	i4	1318	G
21	i4	1321	G
21	i4	1323	U
21	i4	1324	G
21	i4	1330	G
21	i4	1331	C
21	i4	1332	A
21	i4	1337	C
21	i4	1341	C
21	i4	1342	U
21	i4	1343	U
21	i4	1363	C
21	i4	1364	U
21	i4	1371	U
21	i4	1372	U
21	i4	1373	C
21	i4	1378	A
21	i4	1383	A
21	i4	1393	G
21	i4	1396	A
21	i4	1397	U
21	i4	1398	G
21	i4	1404	U
21	i4	1405	A
21	i4	1407	U
21	i4	1409	A
21	i4	1410	C
21	i4	1412	C
21	i4	1413	G
21	i4	1414	A
21	i4	1415	C

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Mol	Chain	Res	Type
21	i4	1416	C
21	i4	1418	C
21	i4	1419	C
21	i4	1420	G
21	i4	1423	C
21	i4	1424	G
21	i4	1425	G
21	i4	1427	C
21	i4	1428	G
21	i4	1431	G
21	i4	1432	U
21	i4	1434	C
21	i4	1436	C
21	i4	1437	C
21	i4	1438	A
21	i4	1442	U
21	i4	1448	A
21	i4	1449	G
21	i4	1454	A
21	i4	1455	A
21	i4	1456	G
21	i4	1457	U
21	i4	1458	G
21	i4	1463	U
21	i4	1464	C
21	i4	1468	C
21	i4	1471	C
21	i4	1472	C
21	i4	1473	G
21	i4	1475	G
21	i4	1476	A
21	i4	1477	U
21	i4	1480	A
21	i4	1481	G
21	i4	1484	A
21	i4	1487	A
21	i4	1489	A
21	i4	1490	G
21	i4	1493	C
21	i4	1494	U
21	i4	1495	G
21	i4	1497	G

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Mol	Chain	Res	Type
21	i4	1498	A
21	i4	1505	U
21	i4	1506	A
21	i4	1507	G
21	i4	1508	A
21	i4	1509	U
21	i4	1510	G
21	i4	1512	C
21	i4	1513	C
21	i4	1515	G
21	i4	1520	G
21	i4	1521	C
21	i4	1522	A
21	i4	1523	C
21	i4	1525	C
21	i4	1526	G
21	i4	1527	C
21	i4	1531	A
21	i4	1533	A
21	i4	1535	U
21	i4	1536	G
21	i4	1538	C
21	i4	1540	G
21	i4	1543	U
21	i4	1545	A
21	i4	1546	G
21	i4	1550	G
21	i4	1551	U
21	i4	1552	G
21	i4	1553	C
21	i4	1554	C
21	i4	1555	U
21	i4	1556	A
21	i4	1557	C
21	i4	1558	C
21	i4	1567	G
21	i4	1568	C
21	i4	1569	A
21	i4	1570	G
21	i4	1573	G
21	i4	1574	C
21	i4	1575	G

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Mol	Chain	Res	Type
21	i4	1579	A
21	i4	1580	A
21	i4	1581	C
21	i4	1585	U
21	i4	1586	U
21	i4	1587	G
21	i4	1588	A
21	i4	1589	A
21	i4	1598	G
21	i4	1599	U
21	i4	1600	G
21	i4	1603	G
21	i4	1614	A
21	i4	1621	U
21	i4	1623	A
21	i4	1626	C
21	i4	1636	G
21	i4	1637	A
21	i4	1638	G
21	i4	1639	G
21	i4	1640	A
21	i4	1644	C
21	i4	1648	G
21	i4	1651	A
21	i4	1653	U
21	i4	1654	G
21	i4	1655	C
21	i4	1660	C
21	i4	1661	A
21	i4	1662	U
21	i4	1663	A
21	i4	1664	A
21	i4	1665	G
21	i4	1679	A
21	i4	1680	G
21	i4	1686	G
21	i4	1688	C
21	i4	1690	U
21	i4	1694	U
21	i4	1695	A
21	i4	1697	A
21	i4	1698	C

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Mol	Chain	Res	Type
21	i4	1714	U
21	i4	1719	A
21	i4	1721	U
21	i4	1722	G
21	i4	1729	U
21	i4	1730	U
21	i4	1735	A
21	i4	1737	G
21	i4	1742	C
21	i4	1743	G
21	i4	1744	G
21	i4	1745	A
21	i4	1746	U
21	i4	1748	G
21	i4	1751	C
21	i4	1752	C
21	i4	1753	C
21	i4	1754	G
21	i4	1755	C
21	i4	1757	G
21	i4	1758	G
21	i4	1772	C
21	i4	1773	C
21	i4	1775	U
21	i4	1776	G
21	i4	1777	G
21	i4	1781	A
21	i4	1782	G
21	i4	1784	G
21	i4	1785	C
21	i4	1786	U
21	i4	1805	G
21	i4	1812	U
21	i4	1813	A
21	i4	1814	G
21	i4	1823	A
21	i4	1824	A
21	i4	1825	A
21	i4	1826	G
21	i4	1831	A
21	i4	1833	C
21	i4	1838	U

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Mol	Chain	Res	Type
21	i4	1839	U
21	i4	1849	G
21	i4	1850	A
21	i4	1851	A
21	i4	1852	C
21	i4	1857	G
21	i4	1858	G
21	i4	1861	G
21	i4	1862	G
21	i4	1863	A
21	i4	1865	C
21	i4	1868	U
21	i4	1869	A
21	i5	2	A
21	i5	3	C
21	i5	4	C
21	i5	9	U
21	i5	17	C
21	i5	18	C
21	i5	25	A
21	i5	27	A
21	i5	31	U
21	i5	33	G
21	i5	41	G
21	i5	42	A
21	i5	44	U
21	i5	45	A
21	i5	46	A
21	i5	52	G
21	i5	56	G
21	i5	62	G
21	i5	64	A
21	i5	67	C
21	i5	68	A
21	i5	69	C
21	i5	70	G
21	i5	72	C
21	i5	73	C
21	i5	74	G
21	i5	76	U
21	i5	77	A
21	i5	78	C

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Mol	Chain	Res	Type
21	i5	79	A
21	i5	83	A
21	i5	84	A
21	i5	98	C
21	i5	99	A
21	i5	103	A
21	i5	113	G
21	i5	114	G
21	i5	126	G
21	i5	127	C
21	i5	140	C
21	i5	141	A
21	i5	142	C
21	i5	144	U
21	i5	148	U
21	i5	153	G
21	i5	154	U
21	i5	155	G
21	i5	156	G
21	i5	160	U
21	i5	161	U
21	i5	162	C
21	i5	163	U
21	i5	167	G
21	i5	168	C
21	i5	171	A
21	i5	172	U
21	i5	175	A
21	i5	177	G
21	i5	178	C
21	i5	180	G
21	i5	181	A
21	i5	184	G
21	i5	185	G
21	i5	186	C
21	i5	188	C
21	i5	190	G
21	i5	191	A
21	i5	192	C
21	i5	198	U
21	i5	201	C
21	i5	202	G

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Mol	Chain	Res	Type
21	i5	208	G
21	i5	209	A
21	i5	210	U
21	i5	211	G
21	i5	212	C
21	i5	214	U
21	i5	215	G
21	i5	219	U
21	i5	291	G
21	i5	292	A
21	i5	293	C
21	i5	295	C
21	i5	299	A
21	i5	304	C
21	i5	305	U
21	i5	306	C
21	i5	307	G
21	i5	308	G
21	i5	309	G
21	i5	312	G
21	i5	313	A
21	i5	314	U
21	i5	315	C
21	i5	319	C
21	i5	320	G
21	i5	323	C
21	i5	324	C
21	i5	325	C
21	i5	326	C
21	i5	328	U
21	i5	329	G
21	i5	330	G
21	i5	334	C
21	i5	337	C
21	i5	338	G
21	i5	339	A
21	i5	340	C
21	i5	341	C
21	i5	342	C
21	i5	343	A
21	i5	347	G
21	i5	351	G

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Mol	Chain	Res	Type
21	i5	354	U
21	i5	360	A
21	i5	361	U
21	i5	362	C
21	i5	364	A
21	i5	369	C
21	i5	370	G
21	i5	371	A
21	i5	385	G
21	i5	386	C
21	i5	388	U
21	i5	391	C
21	i5	400	C
21	i5	401	A
21	i5	402	C
21	i5	407	G
21	i5	408	A
21	i5	409	C
21	i5	411	G
21	i5	413	G
21	i5	417	C
21	i5	418	A
21	i5	423	U
21	i5	426	A
21	i5	429	C
21	i5	434	G
21	i5	435	A
21	i5	436	G
21	i5	438	G
21	i5	441	C
21	i5	448	A
21	i5	449	A
21	i5	450	C
21	i5	452	G
21	i5	459	C
21	i5	464	A
21	i5	465	A
21	i5	466	G
21	i5	467	G
21	i5	469	A
21	i5	472	C
21	i5	473	A

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Mol	Chain	Res	Type
21	i5	474	G
21	i5	482	G
21	i5	487	U
21	i5	488	U
21	i5	489	A
21	i5	492	C
21	i5	493	A
21	i5	495	U
21	i5	502	C
21	i5	503	C
21	i5	505	G
21	i5	507	G
21	i5	516	A
21	i5	517	C
21	i5	524	U
21	i5	526	A
21	i5	529	A
21	i5	530	U
21	i5	532	C
21	i5	533	A
21	i5	534	G
21	i5	535	G
21	i5	537	C
21	i5	538	U
21	i5	539	C
21	i5	540	U
21	i5	542	U
21	i5	544	G
21	i5	545	A
21	i5	547	G
21	i5	549	C
21	i5	550	C
21	i5	551	U
21	i5	556	U
21	i5	557	U
21	i5	559	G
21	i5	560	A
21	i5	563	G
21	i5	566	U
21	i5	574	A
21	i5	575	A
21	i5	576	A

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Mol	Chain	Res	Type
21	i5	581	U
21	i5	582	C
21	i5	584	G
21	i5	585	C
21	i5	587	A
21	i5	588	G
21	i5	589	G
21	i5	590	A
21	i5	591	U
21	i5	592	C
21	i5	593	C
21	i5	596	U
21	i5	604	A
21	i5	605	A
21	i5	606	G
21	i5	607	U
21	i5	608	C
21	i5	613	G
21	i5	621	C
21	i5	627	U
21	i5	628	A
21	i5	629	A
21	i5	631	U
21	i5	634	A
21	i5	643	A
21	i5	644	G
21	i5	651	U
21	i5	655	A
21	i5	656	G
21	i5	657	U
21	i5	660	C
21	i5	666	U
21	i5	669	A
21	i5	670	A
21	i5	671	A
21	i5	672	A
21	i5	673	G
21	i5	675	U
21	i5	679	A
21	i5	683	G
21	i5	685	A
21	i5	686	U

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Mol	Chain	Res	Type
21	i5	687	C
21	i5	688	U
21	i5	689	U
21	i5	690	G
21	i5	691	G
21	i5	692	G
21	i5	693	A
21	i5	694	G
21	i5	695	C
21	i5	696	G
21	i5	697	G
21	i5	698	G
21	i5	732	U
21	i5	733	C
21	i5	734	C
21	i5	735	C
21	i5	736	C
21	i5	738	C
21	i5	739	C
21	i5	746	C
21	i5	747	U
21	i5	749	U
21	i5	750	C
21	i5	751	G
21	i5	752	G
21	i5	753	C
21	i5	787	G
21	i5	788	G
21	i5	789	G
21	i5	790	C
21	i5	791	C
21	i5	794	A
21	i5	795	A
21	i5	796	G
21	i5	797	C
21	i5	798	A
21	i5	800	U
21	i5	810	A
21	i5	811	A
21	i5	812	A
21	i5	813	A
21	i5	815	U

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Mol	Chain	Res	Type
21	i5	818	A
21	i5	821	G
21	i5	822	U
21	i5	823	U
21	i5	830	A
21	i5	834	C
21	i5	835	C
21	i5	837	A
21	i5	838	G
21	i5	839	C
21	i5	840	C
21	i5	841	G
21	i5	842	C
21	i5	843	C
21	i5	847	A
21	i5	848	U
21	i5	853	C
21	i5	864	A
21	i5	865	A
21	i5	869	A
21	i5	870	A
21	i5	873	G
21	i5	874	G
21	i5	876	C
21	i5	877	C
21	i5	878	G
21	i5	879	C
21	i5	881	G
21	i5	883	U
21	i5	887	U
21	i5	888	U
21	i5	889	U
21	i5	890	U
21	i5	891	G
21	i5	892	U
21	i5	893	U
21	i5	894	G
21	i5	896	U
21	i5	897	U
21	i5	899	U
21	i5	900	C
21	i5	901	G

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Mol	Chain	Res	Type
21	i5	902	G
21	i5	903	A
21	i5	904	A
21	i5	907	G
21	i5	908	A
21	i5	909	G
21	i5	913	A
21	i5	914	U
21	i5	917	U
21	i5	919	A
21	i5	920	A
21	i5	930	C
21	i5	933	G
21	i5	934	G
21	i5	939	U
21	i5	943	U
21	i5	952	G
21	i5	954	U
21	i5	955	A
21	i5	956	G
21	i5	958	G
21	i5	961	G
21	i5	963	A
21	i5	964	A
21	i5	965	U
21	i5	970	G
21	i5	971	G
21	i5	972	A
21	i5	973	C
21	i5	978	G
21	i5	979	C
21	i5	981	A
21	i5	990	A
21	i5	992	A
21	i5	996	A
21	i5	999	G
21	i5	1002	U
21	i5	1008	A
21	i5	1017	U
21	i5	1022	U
21	i5	1023	A
21	i5	1027	A

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Mol	Chain	Res	Type
21	i5	1028	A
21	i5	1029	G
21	i5	1041	G
21	i5	1042	A
21	i5	1044	G
21	i5	1052	A
21	i5	1059	G
21	i5	1060	A
21	i5	1061	U
21	i5	1062	A
21	i5	1068	G
21	i5	1076	G
21	i5	1081	U
21	i5	1083	A
21	i5	1084	A
21	i5	1085	C
21	i5	1087	A
21	i5	1088	U
21	i5	1110	G
21	i5	1113	A
21	i5	1114	U
21	i5	1115	U
21	i5	1116	C
21	i5	1118	C
21	i5	1119	A
21	i5	1120	U
21	i5	1126	G
21	i5	1134	G
21	i5	1138	C
21	i5	1139	C
21	i5	1148	A
21	i5	1149	A
21	i5	1150	A
21	i5	1153	C
21	i5	1154	U
21	i5	1155	U
21	i5	1157	G
21	i5	1166	G
21	i5	1170	A
21	i5	1171	G
21	i5	1172	U
21	i5	1175	G

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Mol	Chain	Res	Type
21	i5	1180	C
21	i5	1181	A
21	i5	1186	U
21	i5	1194	A
21	i5	1195	A
21	i5	1198	G
21	i5	1208	A
21	i5	1210	G
21	i5	1212	G
21	i5	1213	C
21	i5	1214	A
21	i5	1215	C
21	i5	1216	C
21	i5	1217	A
21	i5	1224	G
21	i5	1231	C
21	i5	1238	U
21	i5	1240	A
21	i5	1241	A
21	i5	1242	U
21	i5	1248	U
21	i5	1250	A
21	i5	1251	A
21	i5	1253	A
21	i5	1256	G
21	i5	1257	G
21	i5	1258	A
21	i5	1259	A
21	i5	1260	A
21	i5	1264	C
21	i5	1265	A
21	i5	1268	C
21	i5	1269	G
21	i5	1271	C
21	i5	1274	G
21	i5	1275	G
21	i5	1276	A
21	i5	1277	C
21	i5	1280	G
21	i5	1281	G
21	i5	1283	C
21	i5	1284	A

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Mol	Chain	Res	Type
21	i5	1287	A
21	i5	1288	U
21	i5	1289	U
21	i5	1290	G
21	i5	1292	C
21	i5	1294	G
21	i5	1295	A
21	i5	1296	U
21	i5	1297	U
21	i5	1298	G
21	i5	1299	A
21	i5	1300	U
21	i5	1301	A
21	i5	1302	G
21	i5	1303	C
21	i5	1305	C
21	i5	1306	U
21	i5	1307	U
21	i5	1308	U
21	i5	1310	U
21	i5	1311	C
21	i5	1313	A
21	i5	1315	U
21	i5	1317	C
21	i5	1318	G
21	i5	1321	G
21	i5	1323	U
21	i5	1324	G
21	i5	1330	G
21	i5	1331	C
21	i5	1332	A
21	i5	1337	C
21	i5	1341	C
21	i5	1342	U
21	i5	1343	U
21	i5	1363	C
21	i5	1364	U
21	i5	1371	U
21	i5	1372	U
21	i5	1373	C
21	i5	1378	A
21	i5	1383	A

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Mol	Chain	Res	Type
21	i5	1393	G
21	i5	1396	A
21	i5	1397	U
21	i5	1398	G
21	i5	1404	U
21	i5	1405	A
21	i5	1407	U
21	i5	1409	A
21	i5	1410	C
21	i5	1412	C
21	i5	1413	G
21	i5	1414	A
21	i5	1415	C
21	i5	1416	C
21	i5	1418	C
21	i5	1419	C
21	i5	1420	G
21	i5	1423	C
21	i5	1424	G
21	i5	1425	G
21	i5	1427	C
21	i5	1428	G
21	i5	1431	G
21	i5	1432	U
21	i5	1434	C
21	i5	1436	C
21	i5	1437	C
21	i5	1438	A
21	i5	1442	U
21	i5	1448	A
21	i5	1449	G
21	i5	1454	A
21	i5	1455	A
21	i5	1456	G
21	i5	1457	U
21	i5	1458	G
21	i5	1463	U
21	i5	1464	C
21	i5	1468	C
21	i5	1471	C
21	i5	1472	C
21	i5	1473	G

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Mol	Chain	Res	Type
21	i5	1475	G
21	i5	1476	A
21	i5	1477	U
21	i5	1480	A
21	i5	1481	G
21	i5	1484	A
21	i5	1487	A
21	i5	1489	A
21	i5	1490	G
21	i5	1493	C
21	i5	1494	U
21	i5	1495	G
21	i5	1497	G
21	i5	1498	A
21	i5	1505	U
21	i5	1506	A
21	i5	1507	G
21	i5	1508	A
21	i5	1509	U
21	i5	1510	G
21	i5	1512	C
21	i5	1513	C
21	i5	1515	G
21	i5	1520	G
21	i5	1521	C
21	i5	1522	A
21	i5	1523	C
21	i5	1525	C
21	i5	1526	G
21	i5	1527	C
21	i5	1531	A
21	i5	1533	A
21	i5	1535	U
21	i5	1536	G
21	i5	1538	C
21	i5	1540	G
21	i5	1543	U
21	i5	1545	A
21	i5	1546	G
21	i5	1550	G
21	i5	1551	U
21	i5	1552	G

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Mol	Chain	Res	Type
21	i5	1553	C
21	i5	1554	C
21	i5	1555	U
21	i5	1556	A
21	i5	1557	C
21	i5	1558	C
21	i5	1567	G
21	i5	1568	C
21	i5	1569	A
21	i5	1570	G
21	i5	1573	G
21	i5	1574	C
21	i5	1575	G
21	i5	1579	A
21	i5	1580	A
21	i5	1581	C
21	i5	1585	U
21	i5	1586	U
21	i5	1587	G
21	i5	1588	A
21	i5	1589	A
21	i5	1598	G
21	i5	1599	U
21	i5	1600	G
21	i5	1603	G
21	i5	1614	A
21	i5	1621	U
21	i5	1623	A
21	i5	1626	C
21	i5	1636	G
21	i5	1637	A
21	i5	1638	G
21	i5	1639	G
21	i5	1640	A
21	i5	1644	C
21	i5	1648	G
21	i5	1651	A
21	i5	1653	U
21	i5	1654	G
21	i5	1655	C
21	i5	1660	C
21	i5	1661	A

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Mol	Chain	Res	Type
21	i5	1662	U
21	i5	1663	A
21	i5	1664	A
21	i5	1665	G
21	i5	1679	A
21	i5	1680	G
21	i5	1686	G
21	i5	1688	C
21	i5	1690	U
21	i5	1694	U
21	i5	1695	A
21	i5	1697	A
21	i5	1698	C
21	i5	1714	U
21	i5	1719	A
21	i5	1721	U
21	i5	1722	G
21	i5	1729	U
21	i5	1730	U
21	i5	1735	A
21	i5	1737	G
21	i5	1742	C
21	i5	1743	G
21	i5	1744	G
21	i5	1745	A
21	i5	1746	U
21	i5	1748	G
21	i5	1751	C
21	i5	1752	C
21	i5	1754	G
21	i5	1755	C
21	i5	1757	G
21	i5	1758	G
21	i5	1772	C
21	i5	1773	C
21	i5	1775	U
21	i5	1776	G
21	i5	1777	G
21	i5	1781	A
21	i5	1784	G
21	i5	1785	C
21	i5	1786	U

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Mol	Chain	Res	Type
21	i5	1805	G
21	i5	1812	U
21	i5	1813	A
21	i5	1814	G
21	i5	1823	A
21	i5	1824	A
21	i5	1825	A
21	i5	1826	G
21	i5	1831	A
21	i5	1838	U
21	i5	1839	U
21	i5	1849	G
21	i5	1850	A
21	i5	1851	A
21	i5	1852	C
21	i5	1857	G
21	i5	1858	G
21	i5	1861	G
21	i5	1862	G
21	i5	1863	A
21	i5	1865	C
21	i5	1868	U
21	i5	1869	A
21	i6	2	A
21	i6	3	C
21	i6	4	C
21	i6	9	U
21	i6	17	C
21	i6	18	C
21	i6	25	A
21	i6	27	A
21	i6	31	U
21	i6	33	G
21	i6	41	G
21	i6	42	A
21	i6	44	U
21	i6	45	A
21	i6	46	A
21	i6	52	G
21	i6	56	G
21	i6	62	G
21	i6	64	A

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Mol	Chain	Res	Type
21	i6	67	C
21	i6	68	A
21	i6	69	C
21	i6	70	G
21	i6	72	C
21	i6	73	C
21	i6	74	G
21	i6	76	U
21	i6	77	A
21	i6	78	C
21	i6	79	A
21	i6	83	A
21	i6	84	A
21	i6	98	C
21	i6	99	A
21	i6	103	A
21	i6	113	G
21	i6	114	G
21	i6	126	G
21	i6	127	C
21	i6	140	C
21	i6	141	A
21	i6	142	C
21	i6	144	U
21	i6	148	U
21	i6	153	G
21	i6	154	U
21	i6	155	G
21	i6	156	G
21	i6	160	U
21	i6	161	U
21	i6	162	C
21	i6	163	U
21	i6	167	G
21	i6	168	C
21	i6	171	A
21	i6	172	U
21	i6	175	A
21	i6	177	G
21	i6	178	C
21	i6	180	G
21	i6	181	A

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Mol	Chain	Res	Type
21	i6	184	G
21	i6	185	G
21	i6	186	C
21	i6	188	C
21	i6	190	G
21	i6	191	A
21	i6	192	C
21	i6	198	U
21	i6	201	C
21	i6	202	G
21	i6	208	G
21	i6	209	A
21	i6	210	U
21	i6	211	G
21	i6	212	C
21	i6	214	U
21	i6	215	G
21	i6	216	C
21	i6	219	U
21	i6	291	G
21	i6	292	A
21	i6	293	C
21	i6	295	C
21	i6	299	A
21	i6	304	C
21	i6	305	U
21	i6	306	C
21	i6	307	G
21	i6	308	G
21	i6	309	G
21	i6	312	G
21	i6	313	A
21	i6	314	U
21	i6	317	C
21	i6	319	C
21	i6	320	G
21	i6	323	C
21	i6	324	C
21	i6	325	C
21	i6	326	C
21	i6	328	U
21	i6	329	G

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Mol	Chain	Res	Type
21	i6	330	G
21	i6	334	C
21	i6	337	C
21	i6	338	G
21	i6	339	A
21	i6	340	C
21	i6	341	C
21	i6	342	C
21	i6	343	A
21	i6	347	G
21	i6	351	G
21	i6	354	U
21	i6	360	A
21	i6	361	U
21	i6	362	C
21	i6	364	A
21	i6	369	C
21	i6	370	G
21	i6	371	A
21	i6	385	G
21	i6	386	C
21	i6	388	U
21	i6	391	C
21	i6	400	C
21	i6	401	A
21	i6	402	C
21	i6	407	G
21	i6	408	A
21	i6	409	C
21	i6	411	G
21	i6	413	G
21	i6	417	C
21	i6	418	A
21	i6	423	U
21	i6	426	A
21	i6	429	C
21	i6	434	G
21	i6	435	A
21	i6	436	G
21	i6	438	G
21	i6	441	C
21	i6	448	A

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Mol	Chain	Res	Type
21	i6	449	A
21	i6	450	C
21	i6	452	G
21	i6	459	C
21	i6	464	A
21	i6	465	A
21	i6	466	G
21	i6	467	G
21	i6	469	A
21	i6	472	C
21	i6	473	A
21	i6	474	G
21	i6	482	G
21	i6	487	U
21	i6	488	U
21	i6	489	A
21	i6	492	C
21	i6	493	A
21	i6	495	U
21	i6	502	C
21	i6	503	C
21	i6	505	G
21	i6	507	G
21	i6	516	A
21	i6	517	C
21	i6	524	U
21	i6	529	A
21	i6	530	U
21	i6	532	C
21	i6	533	A
21	i6	534	G
21	i6	535	G
21	i6	537	C
21	i6	538	U
21	i6	539	C
21	i6	540	U
21	i6	542	U
21	i6	544	G
21	i6	545	A
21	i6	547	G
21	i6	549	C
21	i6	550	C

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Mol	Chain	Res	Type
21	i6	551	U
21	i6	556	U
21	i6	557	U
21	i6	559	G
21	i6	563	G
21	i6	566	U
21	i6	574	A
21	i6	575	A
21	i6	576	A
21	i6	581	U
21	i6	582	C
21	i6	584	G
21	i6	585	C
21	i6	587	A
21	i6	588	G
21	i6	589	G
21	i6	590	A
21	i6	591	U
21	i6	592	C
21	i6	593	C
21	i6	596	U
21	i6	604	A
21	i6	605	A
21	i6	606	G
21	i6	607	U
21	i6	608	C
21	i6	613	G
21	i6	621	C
21	i6	627	U
21	i6	628	A
21	i6	629	A
21	i6	631	U
21	i6	634	A
21	i6	643	A
21	i6	644	G
21	i6	651	U
21	i6	655	A
21	i6	656	G
21	i6	657	U
21	i6	660	C
21	i6	666	U
21	i6	669	A

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Mol	Chain	Res	Type
21	i6	670	A
21	i6	671	A
21	i6	672	A
21	i6	673	G
21	i6	675	U
21	i6	679	A
21	i6	683	G
21	i6	685	A
21	i6	686	U
21	i6	687	C
21	i6	688	U
21	i6	689	U
21	i6	690	G
21	i6	691	G
21	i6	692	G
21	i6	693	A
21	i6	694	G
21	i6	695	C
21	i6	696	G
21	i6	697	G
21	i6	698	G
21	i6	732	U
21	i6	733	C
21	i6	734	C
21	i6	735	C
21	i6	736	C
21	i6	738	C
21	i6	739	C
21	i6	746	C
21	i6	747	U
21	i6	749	U
21	i6	750	C
21	i6	751	G
21	i6	752	G
21	i6	753	C
21	i6	787	G
21	i6	788	G
21	i6	789	G
21	i6	790	C
21	i6	791	C
21	i6	794	A
21	i6	795	A

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Mol	Chain	Res	Type
21	i6	796	G
21	i6	797	C
21	i6	798	A
21	i6	800	U
21	i6	810	A
21	i6	811	A
21	i6	812	A
21	i6	813	A
21	i6	815	U
21	i6	818	A
21	i6	821	G
21	i6	822	U
21	i6	823	U
21	i6	830	A
21	i6	834	C
21	i6	835	C
21	i6	837	A
21	i6	838	G
21	i6	839	C
21	i6	840	C
21	i6	841	G
21	i6	842	C
21	i6	843	C
21	i6	847	A
21	i6	848	U
21	i6	853	C
21	i6	864	A
21	i6	865	A
21	i6	869	A
21	i6	870	A
21	i6	873	G
21	i6	874	G
21	i6	876	C
21	i6	877	C
21	i6	878	G
21	i6	879	C
21	i6	881	G
21	i6	883	U
21	i6	887	U
21	i6	888	U
21	i6	889	U
21	i6	890	U

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Mol	Chain	Res	Type
21	i6	891	G
21	i6	892	U
21	i6	893	U
21	i6	894	G
21	i6	896	U
21	i6	897	U
21	i6	899	U
21	i6	900	C
21	i6	901	G
21	i6	902	G
21	i6	903	A
21	i6	904	A
21	i6	907	G
21	i6	908	A
21	i6	909	G
21	i6	913	A
21	i6	914	U
21	i6	917	U
21	i6	919	A
21	i6	920	A
21	i6	930	C
21	i6	933	G
21	i6	934	G
21	i6	939	U
21	i6	943	U
21	i6	952	G
21	i6	954	U
21	i6	955	A
21	i6	956	G
21	i6	958	G
21	i6	961	G
21	i6	963	A
21	i6	964	A
21	i6	965	U
21	i6	970	G
21	i6	971	G
21	i6	972	A
21	i6	973	C
21	i6	978	G
21	i6	979	C
21	i6	981	A
21	i6	990	A

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Mol	Chain	Res	Type
21	i6	992	A
21	i6	996	A
21	i6	999	G
21	i6	1002	U
21	i6	1008	A
21	i6	1017	U
21	i6	1022	U
21	i6	1023	A
21	i6	1027	A
21	i6	1028	A
21	i6	1029	G
21	i6	1041	G
21	i6	1042	A
21	i6	1044	G
21	i6	1052	A
21	i6	1059	G
21	i6	1060	A
21	i6	1061	U
21	i6	1062	A
21	i6	1068	G
21	i6	1076	G
21	i6	1081	U
21	i6	1083	A
21	i6	1084	A
21	i6	1085	C
21	i6	1087	A
21	i6	1088	U
21	i6	1110	G
21	i6	1113	A
21	i6	1114	U
21	i6	1115	U
21	i6	1116	C
21	i6	1118	C
21	i6	1119	A
21	i6	1120	U
21	i6	1126	G
21	i6	1134	G
21	i6	1138	C
21	i6	1139	C
21	i6	1148	A
21	i6	1149	A
21	i6	1150	A

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Mol	Chain	Res	Type
21	i6	1153	C
21	i6	1154	U
21	i6	1155	U
21	i6	1157	G
21	i6	1166	G
21	i6	1170	A
21	i6	1171	G
21	i6	1172	U
21	i6	1175	G
21	i6	1180	C
21	i6	1181	A
21	i6	1186	U
21	i6	1194	A
21	i6	1195	A
21	i6	1198	G
21	i6	1208	A
21	i6	1212	G
21	i6	1213	C
21	i6	1214	A
21	i6	1215	C
21	i6	1216	C
21	i6	1217	A
21	i6	1224	G
21	i6	1231	C
21	i6	1238	U
21	i6	1240	A
21	i6	1241	A
21	i6	1242	U
21	i6	1248	U
21	i6	1250	A
21	i6	1251	A
21	i6	1253	A
21	i6	1256	G
21	i6	1257	G
21	i6	1258	A
21	i6	1259	A
21	i6	1260	A
21	i6	1264	C
21	i6	1265	A
21	i6	1268	C
21	i6	1269	G
21	i6	1271	C

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Mol	Chain	Res	Type
21	i6	1274	G
21	i6	1275	G
21	i6	1276	A
21	i6	1277	C
21	i6	1280	G
21	i6	1281	G
21	i6	1283	C
21	i6	1284	A
21	i6	1287	A
21	i6	1288	U
21	i6	1289	U
21	i6	1290	G
21	i6	1292	C
21	i6	1294	G
21	i6	1295	A
21	i6	1296	U
21	i6	1297	U
21	i6	1298	G
21	i6	1299	A
21	i6	1300	U
21	i6	1301	A
21	i6	1302	G
21	i6	1303	C
21	i6	1305	C
21	i6	1306	U
21	i6	1307	U
21	i6	1308	U
21	i6	1310	U
21	i6	1311	C
21	i6	1313	A
21	i6	1315	U
21	i6	1317	C
21	i6	1318	G
21	i6	1321	G
21	i6	1323	U
21	i6	1324	G
21	i6	1330	G
21	i6	1331	C
21	i6	1332	A
21	i6	1337	C
21	i6	1341	C
21	i6	1342	U

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Mol	Chain	Res	Type
21	i6	1343	U
21	i6	1363	C
21	i6	1364	U
21	i6	1371	U
21	i6	1372	U
21	i6	1373	C
21	i6	1378	A
21	i6	1383	A
21	i6	1393	G
21	i6	1396	A
21	i6	1397	U
21	i6	1398	G
21	i6	1404	U
21	i6	1405	A
21	i6	1407	U
21	i6	1409	A
21	i6	1410	C
21	i6	1412	C
21	i6	1413	G
21	i6	1414	A
21	i6	1415	C
21	i6	1416	C
21	i6	1418	C
21	i6	1419	C
21	i6	1420	G
21	i6	1423	C
21	i6	1424	G
21	i6	1425	G
21	i6	1427	C
21	i6	1428	G
21	i6	1431	G
21	i6	1432	U
21	i6	1434	C
21	i6	1436	C
21	i6	1437	C
21	i6	1438	A
21	i6	1442	U
21	i6	1448	A
21	i6	1449	G
21	i6	1454	A
21	i6	1455	A
21	i6	1456	G

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Mol	Chain	Res	Type
21	i6	1457	U
21	i6	1458	G
21	i6	1463	U
21	i6	1464	C
21	i6	1468	C
21	i6	1471	C
21	i6	1472	C
21	i6	1473	G
21	i6	1475	G
21	i6	1476	A
21	i6	1477	U
21	i6	1480	A
21	i6	1481	G
21	i6	1484	A
21	i6	1487	A
21	i6	1489	A
21	i6	1490	G
21	i6	1493	C
21	i6	1494	U
21	i6	1495	G
21	i6	1497	G
21	i6	1498	A
21	i6	1505	U
21	i6	1506	A
21	i6	1507	G
21	i6	1508	A
21	i6	1509	U
21	i6	1510	G
21	i6	1512	C
21	i6	1513	C
21	i6	1515	G
21	i6	1520	G
21	i6	1521	C
21	i6	1522	A
21	i6	1523	C
21	i6	1525	C
21	i6	1526	G
21	i6	1527	C
21	i6	1531	A
21	i6	1533	A
21	i6	1535	U
21	i6	1536	G

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Mol	Chain	Res	Type
21	i6	1538	C
21	i6	1540	G
21	i6	1543	U
21	i6	1545	A
21	i6	1546	G
21	i6	1550	G
21	i6	1551	U
21	i6	1552	G
21	i6	1553	C
21	i6	1554	C
21	i6	1555	U
21	i6	1556	A
21	i6	1557	C
21	i6	1558	C
21	i6	1567	G
21	i6	1568	C
21	i6	1569	A
21	i6	1570	G
21	i6	1573	G
21	i6	1574	C
21	i6	1575	G
21	i6	1579	A
21	i6	1580	A
21	i6	1581	C
21	i6	1585	U
21	i6	1586	U
21	i6	1587	G
21	i6	1588	A
21	i6	1589	A
21	i6	1598	G
21	i6	1599	U
21	i6	1600	G
21	i6	1603	G
21	i6	1614	A
21	i6	1621	U
21	i6	1623	A
21	i6	1626	C
21	i6	1636	G
21	i6	1637	A
21	i6	1638	G
21	i6	1639	G
21	i6	1640	A

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Mol	Chain	Res	Type
21	i6	1644	C
21	i6	1648	G
21	i6	1651	A
21	i6	1653	U
21	i6	1654	G
21	i6	1655	C
21	i6	1660	C
21	i6	1661	A
21	i6	1662	U
21	i6	1663	A
21	i6	1664	A
21	i6	1665	G
21	i6	1679	A
21	i6	1680	G
21	i6	1686	G
21	i6	1688	C
21	i6	1690	U
21	i6	1694	U
21	i6	1695	A
21	i6	1697	A
21	i6	1698	C
21	i6	1714	U
21	i6	1719	A
21	i6	1721	U
21	i6	1722	G
21	i6	1729	U
21	i6	1730	U
21	i6	1735	A
21	i6	1737	G
21	i6	1742	C
21	i6	1743	G
21	i6	1744	G
21	i6	1745	A
21	i6	1746	U
21	i6	1748	G
21	i6	1751	C
21	i6	1752	C
21	i6	1754	G
21	i6	1755	C
21	i6	1757	G
21	i6	1758	G
21	i6	1772	C

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Mol	Chain	Res	Type
21	i6	1773	C
21	i6	1775	U
21	i6	1776	G
21	i6	1777	G
21	i6	1781	A
21	i6	1782	G
21	i6	1784	G
21	i6	1785	C
21	i6	1786	U
21	i6	1805	G
21	i6	1812	U
21	i6	1813	A
21	i6	1814	G
21	i6	1823	A
21	i6	1824	A
21	i6	1825	A
21	i6	1826	G
21	i6	1831	A
21	i6	1835	A
21	i6	1838	U
21	i6	1839	U
21	i6	1849	G
21	i6	1850	A
21	i6	1851	A
21	i6	1852	C
21	i6	1857	G
21	i6	1858	G
21	i6	1861	G
21	i6	1862	G
21	i6	1863	A
21	i6	1865	C
21	i6	1868	U
21	i6	1869	A

There are no RNA pucker outliers to report.

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
21	i2	1
21	i3	1
21	i5	1
21	i6	1
21	i4	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	i2	1689:C	O3'	1690:U	P	2.39
1	i3	1689:C	O3'	1690:U	P	2.27
1	i5	1689:C	O3'	1690:U	P	2.14
1	i6	1689:C	O3'	1690:U	P	2.07
1	i4	1689:C	O3'	1690:U	P	1.91

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	T1	143/145 (98%)	-0.32	6 (4%)	40	39	166, 196, 227, 240	0
1	T2	143/145 (98%)	-0.25	2 (1%)	73	62	164, 191, 211, 219	0
1	T3	143/145 (98%)	-0.20	9 (6%)	26	30	235, 251, 270, 279	0
1	T4	143/145 (98%)	-0.39	3 (2%)	63	54	302, 349, 376, 382	0
1	T5	143/145 (98%)	-0.27	4 (2%)	55	47	182, 217, 239, 247	0
1	T6	143/145 (98%)	-0.30	9 (6%)	26	30	177, 203, 220, 229	0
2	U1	104/119 (87%)	-0.61	0	100	100	155, 178, 205, 213	0
2	U2	104/119 (87%)	-0.26	2 (1%)	66	56	153, 168, 189, 197	0
2	U3	104/119 (87%)	-0.12	4 (3%)	44	42	222, 235, 250, 257	0
2	U4	104/119 (87%)	0.27	5 (4%)	35	36	241, 266, 296, 311	0
2	U5	104/119 (87%)	0.27	7 (6%)	24	28	173, 200, 224, 233	0
2	U6	104/119 (87%)	-0.19	2 (1%)	66	56	168, 180, 196, 203	0
3	V1	83/83 (100%)	-0.01	5 (6%)	27	32	134, 163, 202, 215	0
3	V2	83/83 (100%)	-0.53	1 (1%)	76	65	128, 151, 181, 191	0
3	V3	83/83 (100%)	-0.57	2 (2%)	59	51	169, 194, 239, 250	0
3	V4	83/83 (100%)	-0.33	4 (4%)	35	36	161, 194, 236, 248	0
3	V5	83/83 (100%)	-0.79	0	100	100	162, 193, 232, 245	0
3	V6	83/83 (100%)	-0.51	0	100	100	153, 179, 211, 222	0
4	X1	141/143 (98%)	0.19	12 (8%)	16	23	112, 126, 143, 151	0
4	X2	141/143 (98%)	-0.19	5 (3%)	47	43	116, 130, 146, 153	0
4	X3	141/143 (98%)	-0.21	5 (3%)	47	43	131, 151, 176, 187	0
4	X4	141/143 (98%)	-0.36	1 (0%)	84	73	129, 166, 204, 218	0
4	X5	141/143 (98%)	0.42	14 (9%)	13	20	137, 151, 168, 180	0
4	X6	141/143 (98%)	-0.03	7 (4%)	34	35	138, 152, 169, 180	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
5	a1	107/115 (93%)	-0.21	3 (2%) 55 47	111, 122, 148, 157	0
5	a2	107/115 (93%)	-0.30	2 (1%) 66 56	113, 123, 149, 155	0
5	a3	107/115 (93%)	0.31	11 (10%) 12 19	144, 161, 211, 220	0
5	a4	107/115 (93%)	0.09	9 (8%) 17 24	136, 154, 197, 204	0
5	a5	107/115 (93%)	0.04	7 (6%) 25 29	135, 144, 180, 188	0
5	a6	107/115 (93%)	0.45	17 (15%) 5 12	133, 141, 171, 176	0
6	c1	64/69 (92%)	-0.23	3 (4%) 36 36	182, 206, 232, 243	0
6	c2	64/69 (92%)	-0.41	1 (1%) 70 59	191, 213, 235, 252	0
6	c3	64/69 (92%)	-0.27	3 (4%) 36 36	209, 217, 229, 241	0
6	c4	64/69 (92%)	-0.88	0 100 100	237, 252, 280, 296	0
6	c5	64/69 (92%)	0.12	6 (9%) 14 21	187, 203, 217, 222	0
6	c6	64/69 (92%)	-0.83	0 100 100	196, 216, 234, 238	0
7	d1	53/56 (94%)	-0.58	0 100 100	156, 160, 181, 189	0
7	d2	53/56 (94%)	-0.57	0 100 100	154, 156, 172, 179	0
7	d3	53/56 (94%)	0.12	2 (3%) 44 42	217, 249, 308, 321	0
7	d4	53/56 (94%)	0.02	5 (9%) 14 21	244, 285, 361, 375	0
7	d5	53/56 (94%)	0.21	7 (13%) 7 15	175, 179, 191, 197	0
7	d6	53/56 (94%)	0.02	4 (7%) 20 26	169, 171, 191, 199	0
8	f1	72/156 (46%)	-0.58	1 (1%) 73 62	179, 218, 268, 285	0
8	f2	72/156 (46%)	-0.30	5 (6%) 23 28	174, 207, 248, 257	0
8	f3	72/156 (46%)	-0.71	2 (2%) 55 47	282, 365, 385, 393	0
8	f4	72/156 (46%)	-0.93	0 100 100	317, 397, 425, 435	0
8	f5	72/156 (46%)	-0.38	7 (9%) 13 20	182, 223, 255, 263	0
8	f6	72/156 (46%)	-0.52	3 (4%) 40 39	185, 229, 268, 282	0
9	g1	313/317 (98%)	-0.72	3 (0%) 79 68	191, 230, 269, 290	0
9	g2	313/317 (98%)	-0.88	3 (0%) 79 68	175, 207, 237, 248	0
9	g3	313/317 (98%)	-0.22	20 (6%) 25 30	208, 228, 248, 255	0
9	g4	313/317 (98%)	-0.63	5 (1%) 70 59	223, 250, 276, 286	0
9	g5	313/317 (98%)	-0.45	6 (1%) 66 56	204, 232, 260, 267	0
9	g6	313/317 (98%)	-0.82	1 (0%) 90 82	191, 224, 256, 271	0
10	C1	222/293 (75%)	-0.31	6 (2%) 56 48	117, 147, 182, 192	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
10	C2	222/293 (75%)	-0.25	8 (3%)	46	43	118, 140, 168, 176	0
10	C3	222/293 (75%)	-0.75	2 (0%)	81	70	145, 179, 221, 235	0
10	C4	222/293 (75%)	-0.55	3 (1%)	73	62	144, 186, 226, 241	0
10	C5	222/293 (75%)	-0.38	4 (1%)	67	57	144, 176, 211, 221	0
10	C6	222/293 (75%)	-0.19	12 (5%)	31	33	141, 166, 194, 203	0
11	G1	237/249 (95%)	-0.35	8 (3%)	48	43	160, 218, 269, 295	0
11	G2	237/249 (95%)	-0.59	1 (0%)	88	79	168, 228, 256, 271	0
11	G3	237/249 (95%)	-0.50	9 (3%)	44	42	166, 225, 250, 256	0
11	G4	237/249 (95%)	-0.26	11 (4%)	37	37	174, 239, 267, 288	0
11	G5	237/249 (95%)	-0.56	6 (2%)	58	49	209, 290, 320, 341	0
11	G6	237/249 (95%)	-0.42	11 (4%)	37	37	212, 290, 318, 339	0
12	J1	185/194 (95%)	-0.09	9 (4%)	35	35	129, 171, 222, 262	0
12	J2	185/194 (95%)	-0.10	9 (4%)	35	35	128, 162, 204, 236	0
12	J3	185/194 (95%)	-0.56	4 (2%)	62	53	157, 197, 258, 306	0
12	J4	185/194 (95%)	-0.48	3 (1%)	70	59	164, 213, 300, 317	0
12	J5	185/194 (95%)	-0.45	3 (1%)	70	59	158, 209, 259, 296	0
12	J6	185/194 (95%)	-0.52	4 (2%)	62	53	154, 195, 238, 271	0
13	M1	123/132 (93%)	-0.57	0	100	100	215, 248, 278, 291	0
13	M2	123/132 (93%)	-0.65	1 (0%)	82	72	201, 226, 255, 268	0
13	M3	123/132 (93%)	-1.06	0	100	100	339, 364, 377, 381	0
13	M4	123/132 (93%)	-1.01	1 (0%)	82	72	369, 398, 417, 422	0
13	M5	123/132 (93%)	-0.80	0	100	100	217, 237, 257, 269	0
13	M6	123/132 (93%)	-0.94	0	100	100	212, 236, 257, 268	0
14	N1	150/151 (99%)	-0.40	2 (1%)	75	63	130, 172, 211, 221	0
14	N2	150/151 (99%)	-0.50	5 (3%)	49	44	124, 158, 185, 191	0
14	N3	150/151 (99%)	-0.42	2 (1%)	75	63	144, 166, 206, 219	0
14	N4	150/151 (99%)	-0.55	0	100	100	138, 166, 208, 222	0
14	N5	150/151 (99%)	-0.70	2 (1%)	75	63	148, 182, 217, 230	0
14	N6	150/151 (99%)	-0.61	0	100	100	144, 178, 207, 216	0
15	O1	140/151 (92%)	0.04	7 (5%)	34	35	121, 151, 185, 197	0
15	O2	140/151 (92%)	0.22	5 (3%)	46	43	124, 154, 181, 195	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
15	O3	140/151 (92%)	0.70	21 (15%) 5 13	150, 202, 247, 260	0
15	O4	140/151 (92%)	0.47	18 (12%) 7 15	147, 199, 237, 259	0
15	O5	140/151 (92%)	-0.37	3 (2%) 63 54	139, 177, 213, 227	0
15	O6	140/151 (92%)	-0.83	1 (0%) 84 73	138, 169, 197, 211	0
16	W1	129/130 (99%)	-0.53	0 100 100	132, 149, 167, 175	0
16	W2	129/130 (99%)	-0.37	2 (1%) 70 59	127, 141, 155, 162	0
16	W3	129/130 (99%)	-0.18	2 (1%) 70 59	146, 165, 180, 186	0
16	W4	129/130 (99%)	0.35	8 (6%) 26 31	140, 162, 178, 187	0
16	W5	129/130 (99%)	-0.72	1 (0%) 82 72	156, 178, 195, 207	0
16	W6	129/130 (99%)	-0.47	0 100 100	152, 169, 184, 194	0
17	Y1	131/133 (98%)	-0.32	9 (6%) 23 28	159, 196, 223, 237	0
17	Y2	131/133 (98%)	-0.37	10 (7%) 20 26	164, 191, 214, 225	0
17	Y3	131/133 (98%)	-0.01	19 (14%) 6 14	180, 220, 252, 267	0
17	Y4	131/133 (98%)	-0.60	4 (3%) 51 45	191, 239, 278, 300	0
17	Y5	131/133 (98%)	-0.08	8 (6%) 27 31	210, 252, 285, 302	0
17	Y6	131/133 (98%)	-0.28	2 (1%) 72 60	208, 239, 266, 280	0
18	Z1	75/125 (60%)	-0.53	0 100 100	196, 226, 255, 258	0
18	Z2	75/125 (60%)	-0.38	2 (2%) 56 48	191, 228, 254, 264	0
18	Z3	75/125 (60%)	-0.76	1 (1%) 75 63	241, 264, 288, 300	0
18	Z4	75/125 (60%)	-0.98	0 100 100	325, 359, 372, 379	0
18	Z5	75/125 (60%)	0.18	6 (8%) 18 24	205, 223, 244, 248	0
18	Z6	75/125 (60%)	0.35	7 (9%) 14 21	195, 217, 236, 244	0
19	b1	83/84 (98%)	-0.45	2 (2%) 59 51	146, 177, 216, 229	0
19	b2	83/84 (98%)	-0.69	1 (1%) 76 65	136, 156, 185, 194	0
19	b3	83/84 (98%)	-0.30	0 100 100	166, 192, 221, 235	0
19	b4	83/84 (98%)	-0.13	7 (8%) 17 24	157, 182, 219, 236	0
19	b5	83/84 (98%)	-0.21	1 (1%) 76 65	169, 191, 221, 235	0
19	b6	83/84 (98%)	-0.56	1 (1%) 76 65	160, 179, 207, 219	0
20	e1	58/133 (43%)	-0.20	3 (5%) 33 34	134, 160, 176, 179	0
20	e2	58/133 (43%)	-0.09	5 (8%) 16 22	143, 155, 166, 168	0
20	e3	58/133 (43%)	-0.03	1 (1%) 69 58	163, 198, 215, 218	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
20	e4	58/133 (43%)	0.53	9 (15%) 5 13	199, 226, 246, 253	0
20	e5	58/133 (43%)	-0.48	5 (8%) 16 22	154, 186, 202, 204	0
20	e6	58/133 (43%)	-0.39	6 (10%) 12 19	158, 181, 191, 194	0
21	i1	1742/1869 (93%)	-0.49	36 (2%) 63 54	110, 170, 323, 428	0
21	i2	1742/1869 (93%)	-0.55	28 (1%) 70 59	113, 169, 301, 421	0
21	i3	1742/1869 (93%)	-0.66	13 (0%) 84 73	130, 200, 353, 478	0
21	i4	1742/1869 (93%)	-0.52	36 (2%) 63 54	128, 212, 362, 457	0
21	i5	1742/1869 (93%)	-0.65	20 (1%) 78 66	133, 191, 362, 430	0
21	i6	1742/1869 (93%)	-0.59	33 (1%) 66 56	132, 188, 335, 417	0
22	A1	222/295 (75%)	-0.21	7 (3%) 50 45	134, 159, 193, 212	0
22	A2	222/295 (75%)	-0.42	1 (0%) 87 77	128, 149, 178, 190	0
22	A3	222/295 (75%)	-0.38	6 (2%) 56 48	172, 206, 247, 272	0
22	A4	222/295 (75%)	-0.95	0 100 100	161, 197, 237, 252	0
22	A5	222/295 (75%)	-0.53	3 (1%) 73 62	162, 191, 229, 245	0
22	A6	222/295 (75%)	-0.12	11 (4%) 34 35	154, 177, 211, 222	0
23	B1	214/264 (81%)	-0.57	3 (1%) 73 62	127, 168, 205, 214	0
23	B2	214/264 (81%)	-0.46	11 (5%) 33 35	124, 157, 193, 204	0
23	B3	214/264 (81%)	-0.20	12 (5%) 30 33	166, 208, 248, 254	0
23	B4	214/264 (81%)	-0.11	4 (1%) 66 56	151, 197, 248, 262	0
23	B5	214/264 (81%)	-0.88	2 (0%) 81 70	150, 186, 220, 228	0
23	B6	214/264 (81%)	-0.90	1 (0%) 87 77	144, 172, 204, 210	0
24	D1	227/243 (93%)	-0.39	3 (1%) 75 63	159, 173, 203, 250	0
24	D2	227/243 (93%)	-0.31	6 (2%) 57 49	156, 173, 205, 233	0
24	D3	227/243 (93%)	0.39	22 (9%) 13 20	211, 244, 269, 286	0
24	D4	227/243 (93%)	0.37	18 (7%) 18 25	217, 260, 298, 310	0
24	D5	227/243 (93%)	-0.08	5 (2%) 62 53	180, 191, 221, 254	0
24	D6	227/243 (93%)	-0.18	9 (3%) 42 40	171, 184, 221, 250	0
25	E1	262/263 (99%)	-0.03	15 (5%) 29 33	149, 195, 227, 236	0
25	E2	262/263 (99%)	-0.01	12 (4%) 37 37	151, 188, 219, 227	0
25	E3	262/263 (99%)	-0.48	6 (2%) 61 52	154, 197, 221, 238	0
25	E4	262/263 (99%)	-0.34	6 (2%) 61 52	158, 209, 239, 261	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
25	E5	262/263 (99%)	-0.15	13 (4%) 34 35	190, 242, 280, 296	0
25	E6	262/263 (99%)	-0.14	8 (3%) 51 45	189, 232, 270, 280	0
26	F1	191/204 (93%)	-0.10	10 (5%) 33 34	175, 204, 228, 236	0
26	F2	191/204 (93%)	-0.49	3 (1%) 70 59	172, 203, 224, 232	0
26	F3	191/204 (93%)	-0.45	6 (3%) 51 45	209, 229, 245, 255	0
26	F4	191/204 (93%)	-0.42	4 (2%) 63 54	242, 289, 324, 338	0
26	F5	191/204 (93%)	0.13	15 (7%) 18 25	185, 201, 218, 223	0
26	F6	191/204 (93%)	-0.29	5 (2%) 57 49	180, 203, 216, 221	0
27	H1	189/194 (97%)	-0.31	2 (1%) 78 66	173, 225, 287, 300	0
27	H2	189/194 (97%)	-0.55	2 (1%) 78 66	156, 196, 245, 258	0
27	H3	189/194 (97%)	0.04	10 (5%) 32 34	172, 222, 267, 278	0
27	H4	189/194 (97%)	-0.23	6 (3%) 50 45	176, 228, 290, 303	0
27	H5	189/194 (97%)	-0.39	5 (2%) 57 49	196, 242, 297, 312	0
27	H6	189/194 (97%)	-0.51	0 100 100	183, 227, 279, 291	0
28	I1	206/208 (99%)	0.11	15 (7%) 21 26	135, 223, 315, 326	0
28	I2	206/208 (99%)	-0.25	3 (1%) 72 60	139, 220, 301, 318	0
28	I3	206/208 (99%)	-0.15	5 (2%) 59 51	136, 188, 250, 272	0
28	I4	206/208 (99%)	-0.25	2 (0%) 79 68	139, 204, 286, 313	0
28	I5	206/208 (99%)	0.45	25 (12%) 8 16	163, 250, 344, 364	0
28	I6	206/208 (99%)	-0.00	8 (3%) 43 41	166, 255, 345, 361	0
29	K1	98/165 (59%)	-0.34	1 (1%) 79 68	164, 190, 213, 221	0
29	K2	98/165 (59%)	-0.66	0 100 100	159, 181, 202, 210	0
29	K3	98/165 (59%)	-0.50	0 100 100	255, 297, 324, 332	0
29	K4	98/165 (59%)	-0.63	1 (1%) 79 68	283, 331, 365, 374	0
29	K5	98/165 (59%)	-0.62	2 (2%) 65 55	182, 201, 219, 224	0
29	K6	98/165 (59%)	-0.23	7 (7%) 22 27	174, 192, 204, 210	0
30	L1	153/158 (96%)	-0.09	5 (3%) 49 44	124, 177, 257, 284	0
30	L2	153/158 (96%)	-0.11	5 (3%) 49 44	124, 169, 239, 265	0
30	L3	153/158 (96%)	0.07	12 (7%) 19 25	138, 161, 209, 227	0
30	L4	153/158 (96%)	0.11	9 (5%) 28 32	136, 167, 234, 258	0
30	L5	153/158 (96%)	0.18	13 (8%) 16 23	152, 202, 272, 302	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
30	L6	153/158 (96%)	-0.17	8 (5%)	33 34	150, 200, 273, 303	0
31	P1	125/145 (86%)	-0.90	3 (2%)	59 51	174, 193, 217, 230	0
31	P2	125/145 (86%)	-1.04	1 (0%)	82 72	174, 193, 222, 231	0
31	P3	125/145 (86%)	-0.54	2 (1%)	70 59	265, 327, 365, 374	0
31	P4	125/145 (86%)	-0.58	6 (4%)	35 36	306, 383, 399, 409	0
31	P5	125/145 (86%)	-0.77	1 (0%)	82 72	182, 204, 223, 228	0
31	P6	125/145 (86%)	-0.76	2 (1%)	70 59	187, 212, 240, 251	0
32	Q1	146/146 (100%)	-0.04	8 (5%)	30 33	156, 200, 232, 265	0
32	Q2	146/146 (100%)	-0.24	3 (2%)	63 54	156, 182, 200, 218	0
32	Q3	146/146 (100%)	-0.53	3 (2%)	63 54	212, 223, 233, 243	0
32	Q4	146/146 (100%)	-0.13	11 (7%)	20 26	249, 279, 311, 317	0
32	Q5	146/146 (100%)	-0.22	3 (2%)	63 54	174, 209, 233, 258	0
32	Q6	146/146 (100%)	-0.35	4 (2%)	56 48	170, 194, 210, 229	0
33	R1	132/135 (97%)	-0.52	1 (0%)	82 72	127, 177, 194, 200	0
33	R2	132/135 (97%)	-0.68	2 (1%)	72 60	124, 171, 196, 202	0
33	R3	132/135 (97%)	-0.56	2 (1%)	72 60	171, 211, 240, 249	0
33	R4	132/135 (97%)	-0.59	1 (0%)	82 72	154, 216, 227, 235	0
33	R5	132/135 (97%)	-0.06	5 (3%)	44 42	153, 202, 220, 228	0
33	R6	132/135 (97%)	-0.35	2 (1%)	72 60	146, 196, 217, 224	0
34	S1	143/152 (94%)	-0.28	9 (6%)	26 30	171, 201, 229, 247	0
34	S2	143/152 (94%)	-0.69	3 (2%)	63 54	172, 210, 240, 258	0
34	S3	143/152 (94%)	-0.57	7 (4%)	35 35	268, 296, 323, 339	0
34	S4	143/152 (94%)	-0.56	2 (1%)	73 62	321, 375, 385, 388	0
34	S5	143/152 (94%)	-0.53	1 (0%)	84 73	181, 213, 234, 246	0
34	S6	143/152 (94%)	-0.36	3 (2%)	63 54	183, 215, 233, 243	0
35	j1	25/25 (100%)	-0.25	0	100 100	113, 121, 137, 140	0
35	j2	25/25 (100%)	-0.28	0	100 100	119, 127, 143, 146	0
35	j3	25/25 (100%)	-0.74	0	100 100	137, 141, 145, 149	0
35	j4	25/25 (100%)	-0.67	0	100 100	139, 147, 157, 163	0
35	j5	25/25 (100%)	-0.59	0	100 100	133, 138, 152, 153	0
35	j6	25/25 (100%)	-0.33	0	100 100	134, 141, 155, 157	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
36	k1	181/181 (100%)	-0.83	0 100 100	146, 198, 267, 284	0
36	k2	181/181 (100%)	-0.83	1 (0%) 85 75	147, 195, 253, 268	0
36	k3	181/181 (100%)	-0.97	1 (0%) 85 75	158, 205, 256, 270	0
36	k4	181/181 (100%)	-0.97	0 100 100	168, 233, 302, 315	0
36	k5	181/181 (100%)	-0.67	0 100 100	157, 199, 256, 270	0
36	k6	181/181 (100%)	-0.88	0 100 100	155, 193, 242, 252	0
37	l1	79/198 (39%)	-0.26	1 (1%) 75 63	174, 212, 268, 279	0
37	l2	79/198 (39%)	-0.17	3 (3%) 44 42	185, 206, 233, 240	0
37	l3	79/198 (39%)	-0.33	2 (2%) 58 49	237, 298, 351, 357	0
37	l4	79/198 (39%)	-0.32	1 (1%) 75 63	237, 274, 309, 327	0
37	l5	79/198 (39%)	-0.20	4 (5%) 33 35	199, 234, 288, 302	0
37	l6	79/198 (39%)	-0.14	1 (1%) 75 63	185, 220, 273, 287	0
All	All	41688/46938 (88%)	-0.41	1186 (2%) 55 47	110, 198, 315, 478	0

All (1186) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
22	A3	223	THR	13.9
8	f5	82	LYS	12.9
21	i1	752	G	11.9
22	A3	222	VAL	11.4
21	i1	794	A	11.0
11	G6	161	PRO	10.7
32	Q3	3	SER	10.2
21	i4	882	U	10.1
21	i6	75	G	9.8
21	i1	793	G	9.7
21	i4	883	U	9.6
17	Y2	131	PRO	9.5
26	F1	130	ARG	9.1
17	Y2	129	LYS	8.8
11	G4	211	LYS	8.7
33	R5	90	ALA	8.6
17	Y2	130	LYS	8.4
28	I5	58	LEU	8.4
21	i4	905	C	8.3
21	i4	904	A	8.1
5	a4	105	GLY	8.1

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Mol	Chain	Res	Type	RSRZ
9	g3	234	ASP	8.0
21	i1	309	G	7.8
15	O3	12	GLU	7.8
21	i6	77	A	7.8
28	I5	57	ALA	7.7
23	B2	54	GLY	7.7
17	Y3	132	LYS	7.7
21	i6	786	G	7.6
5	a4	107	ALA	7.5
5	a4	106	ALA	7.5
17	Y3	112	ASN	7.3
17	Y1	127	ALA	7.3
10	C6	191	VAL	7.3
17	Y3	113	ARG	7.1
21	i5	836	G	7.1
15	O5	123	GLY	7.0
21	i1	305	U	6.9
4	X5	82	THR	6.9
20	e4	58	ASN	6.9
10	C2	275	LYS	6.9
8	f2	117	LEU	6.8
17	Y5	131	PRO	6.8
17	Y3	130	LYS	6.7
17	Y3	127	ALA	6.7
30	L4	28	THR	6.6
28	I5	38	ILE	6.6
33	R5	91	LEU	6.5
20	e4	15	GLN	6.4
8	f5	81	LYS	6.4
25	E5	54	TYR	6.4
11	G6	163	ASN	6.3
23	B4	47	THR	6.3
21	i6	67	C	6.3
15	O4	42	VAL	6.3
21	i6	78	C	6.3
5	a4	58	VAL	6.2
21	i4	884	C	6.2
17	Y3	128	GLY	6.2
10	C6	188	CYS	6.2
9	g3	286	CYS	6.1
10	C2	280	VAL	6.1
24	D4	103	GLU	6.1

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Mol	Chain	Res	Type	RSRZ
9	g5	10	THR	6.0
23	B2	55	THR	5.9
21	i1	306	C	5.9
21	i4	907	G	5.9
21	i4	906	U	5.9
26	F1	131	ALA	5.9
26	F5	131	ALA	5.9
9	g3	252	THR	5.9
24	D3	19	ALA	5.8
4	X5	55	VAL	5.8
17	Y3	126	GLY	5.8
26	F1	136	ARG	5.8
10	C2	228	GLY	5.7
8	f2	115	SER	5.7
1	T6	26	GLY	5.7
20	e6	4	GLY	5.6
21	i3	161	U	5.6
21	i1	308	G	5.6
17	Y5	128	GLY	5.6
28	I5	43	ILE	5.6
23	B4	22	VAL	5.5
5	a4	108	PRO	5.5
17	Y3	131	PRO	5.5
11	G4	207	ALA	5.5
20	e5	2	VAL	5.5
17	Y3	114	MET	5.5
21	i5	308	G	5.5
21	i1	792	C	5.5
17	Y3	129	LYS	5.4
10	C6	235	ASN	5.4
17	Y3	116	LYS	5.4
21	i5	305	U	5.4
5	a4	103	PRO	5.3
21	i1	753	C	5.3
2	U4	36	CYS	5.3
26	F1	132	GLY	5.3
20	e4	18	LYS	5.2
8	f3	124	ASP	5.2
21	i6	897	U	5.2
17	Y5	100	LYS	5.1
11	G5	218	LYS	5.1
31	P4	46	ASN	5.1

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Mol	Chain	Res	Type	RSRZ
26	F1	135	ARG	5.1
8	f5	84	SER	5.1
30	L3	154	GLN	5.1
17	Y3	110	ARG	5.1
22	A3	219	GLU	5.0
4	X5	83	ALA	5.0
1	T6	115	LYS	5.0
8	f5	83	LYS	5.0
21	i1	795	A	5.0
28	I5	41	ARG	5.0
24	D6	81	GLU	4.9
28	I1	80	ASP	4.9
19	b4	2	PRO	4.9
11	G4	212	LEU	4.9
34	S1	14	ARG	4.9
20	e4	20	ALA	4.9
21	i3	137	U	4.9
15	O2	89	GLY	4.9
21	i4	789	G	4.8
32	Q1	49	TYR	4.8
21	i2	640	A	4.8
34	S1	17	ASN	4.8
23	B3	46	LYS	4.8
15	O4	31	CYS	4.8
28	I5	36	THR	4.8
5	a5	100	ARG	4.8
34	S6	143	GLY	4.7
25	E3	68	ARG	4.7
17	Y3	111	LYS	4.7
9	g3	284	PRO	4.7
1	T3	109	GLY	4.7
34	S3	126	PHE	4.7
23	B4	21	VAL	4.7
18	Z6	56	ASP	4.7
4	X3	73	GLN	4.7
15	O4	63	LYS	4.6
20	e4	19	VAL	4.6
17	Y3	115	LYS	4.6
32	Q4	61	GLU	4.6
21	i6	308	G	4.6
21	i6	884	C	4.6
17	Y6	131	PRO	4.5

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Mol	Chain	Res	Type	RSRZ
20	e4	57	ALA	4.5
21	i6	883	U	4.5
23	B2	21	VAL	4.5
31	P4	31	GLU	4.5
21	i5	306	C	4.5
17	Y1	130	LYS	4.4
16	W4	21	GLY	4.4
25	E5	43	PRO	4.4
25	E1	206	ASP	4.4
26	F6	32	ASP	4.4
21	i2	6	G	4.4
25	E1	198	ARG	4.4
15	O2	15	ILE	4.4
21	i1	307	G	4.4
21	i5	697	G	4.4
21	i1	1819	A	4.4
12	J3	182	GLN	4.4
7	d6	49	ASP	4.4
15	O3	27	VAL	4.3
11	G1	204	GLU	4.3
15	O4	16	SER	4.3
21	i3	1618	C	4.3
24	D6	198	ILE	4.3
15	O2	16	SER	4.3
23	B3	93	GLY	4.3
27	H3	192	PHE	4.3
21	i1	751	G	4.3
1	T6	25	SER	4.3
30	L4	26	GLY	4.3
24	D3	18	LYS	4.2
21	i5	838	G	4.2
17	Y2	127	ALA	4.2
16	W4	5	ASN	4.2
22	A1	114	ALA	4.2
10	C6	190	SER	4.2
18	Z5	71	ALA	4.2
27	H1	89	GLY	4.2
34	S5	143	GLY	4.2
25	E2	159	THR	4.2
20	e5	6	LEU	4.2
5	a3	82	LYS	4.2
20	e6	5	SER	4.2

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Mol	Chain	Res	Type	RSRZ
7	d6	52	PHE	4.2
21	i5	1134	G	4.2
18	Z5	42	ASP	4.2
26	F6	31	ASN	4.1
21	i6	748	C	4.1
26	F5	130	ARG	4.1
10	C2	278	THR	4.1
31	P2	134	GLY	4.1
34	S3	127	TRP	4.1
33	R5	87	GLU	4.1
24	D2	146	ARG	4.1
15	O3	151	LEU	4.1
23	B3	69	VAL	4.1
37	l3	180	GLU	4.0
10	C4	251	LEU	4.0
21	i6	894	G	4.0
9	g3	254	PRO	4.0
23	B2	22	VAL	4.0
7	d3	51	GLY	4.0
17	Y4	130	LYS	4.0
22	A1	73	ASP	4.0
6	c5	7	GLN	4.0
25	E2	23	LEU	4.0
29	K6	17	LYS	4.0
21	i2	407	G	4.0
25	E5	52	LEU	4.0
26	F2	132	GLY	4.0
30	L3	25	LEU	3.9
1	T1	140	ALA	3.9
12	J5	117	LEU	3.9
11	G6	171	THR	3.9
27	H4	145	ARG	3.9
15	O2	14	VAL	3.9
29	K6	18	GLU	3.9
30	L5	27	GLU	3.9
34	S1	12	ILE	3.9
1	T1	85	ASN	3.9
24	D3	15	GLY	3.9
34	S2	139	THR	3.9
33	R5	80	ARG	3.9
4	X6	96	GLU	3.9
21	i1	649	U	3.9

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Mol	Chain	Res	Type	RSRZ
21	i4	1632	G	3.9
11	G5	212	LEU	3.9
24	D4	137	VAL	3.9
17	Y1	116	LYS	3.8
21	i6	785	C	3.8
22	A5	217	ALA	3.8
28	I5	37	LYS	3.8
4	X6	69	CYS	3.8
23	B2	23	ASP	3.8
21	i4	788	G	3.8
30	L6	153	LYS	3.8
3	V4	19	ALA	3.8
17	Y2	128	GLY	3.8
20	e4	17	PRO	3.8
21	i6	751	G	3.8
26	F5	133	THR	3.8
4	X5	97	ASN	3.8
15	O3	28	PHE	3.8
20	e6	3	HIS	3.8
25	E3	2	ALA	3.8
28	I5	42	ARG	3.8
32	Q4	89	SER	3.8
21	i6	882	U	3.8
17	Y2	132	LYS	3.7
17	Y3	118	ARG	3.8
24	D4	175	VAL	3.7
6	c1	68	LEU	3.7
19	b4	6	ASP	3.7
12	J6	168	GLY	3.7
29	K6	20	VAL	3.7
22	A6	144	THR	3.7
22	A2	114	ALA	3.7
30	L3	50	ALA	3.7
4	X6	53	GLU	3.7
28	I1	76	THR	3.7
21	i2	25	A	3.7
28	I5	171	LEU	3.7
17	Y5	130	LYS	3.7
34	S3	118	ARG	3.7
11	G4	210	ALA	3.7
24	D3	92	ALA	3.7
28	I5	35	ASN	3.7

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Mol	Chain	Res	Type	RSRZ
24	D3	184	ILE	3.7
26	F6	29	GLN	3.7
24	D4	118	ALA	3.7
34	S3	123	LEU	3.7
30	L6	23	VAL	3.6
10	C6	234	GLY	3.6
21	i4	735	C	3.6
21	i6	750	C	3.6
30	L2	24	LEU	3.6
6	c2	67	ARG	3.6
26	F3	132	GLY	3.6
26	F6	171	GLU	3.6
4	X3	72	VAL	3.6
7	d3	50	ILE	3.6
24	D3	22	ASN	3.6
34	S1	19	ASN	3.6
17	Y5	127	ALA	3.6
30	L4	31	GLU	3.6
25	E4	178	GLY	3.6
5	a3	81	SER	3.6
21	i6	1825	A	3.6
3	V4	58	ALA	3.6
11	G4	204	GLU	3.6
34	S1	16	LEU	3.6
1	T3	27	LYS	3.6
14	N3	7	PRO	3.6
5	a1	68	TYR	3.6
5	a3	58	VAL	3.6
29	K6	98	ARG	3.6
23	B4	46	LYS	3.6
1	T6	109	GLY	3.6
21	i5	1869	A	3.6
5	a4	102	ARG	3.6
5	a3	80	HIS	3.6
8	f2	111	ASN	3.6
28	I5	60	LEU	3.6
2	U5	36	CYS	3.5
11	G3	207	ALA	3.5
33	R1	51	ALA	3.5
15	O3	16	SER	3.5
20	e4	50	GLY	3.5
21	i4	885	U	3.5

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Mol	Chain	Res	Type	RSRZ
21	i6	305	U	3.5
34	S4	126	PHE	3.5
23	B3	73	ASP	3.5
12	J1	99	GLY	3.5
32	Q1	145	TYR	3.5
15	O1	12	GLU	3.5
24	D4	135	GLU	3.5
27	H3	110	THR	3.5
4	X1	107	ARG	3.5
4	X5	70	VAL	3.5
5	a4	104	ALA	3.5
21	i4	610	G	3.5
36	k3	75	GLU	3.5
37	l1	143	GLU	3.5
8	f5	85	CYS	3.5
5	a5	69	VAL	3.5
25	E5	99	PHE	3.5
21	i1	648	A	3.5
5	a6	72	HIS	3.5
21	i6	76	U	3.5
10	C6	236	PHE	3.5
8	f1	85	CYS	3.5
28	I1	81	VAL	3.5
9	g4	98	THR	3.5
18	Z6	115	GLY	3.4
8	f2	107	LYS	3.4
17	Y1	22	GLN	3.4
30	L5	28	THR	3.4
30	L3	43	GLY	3.4
17	Y4	132	LYS	3.4
23	B3	108	ASP	3.4
30	L4	27	GLU	3.4
11	G5	210	ALA	3.4
11	G4	226	GLU	3.4
11	G6	173	ALA	3.4
37	l5	191	GLU	3.4
5	a2	100	ARG	3.4
13	M4	131	LYS	3.4
23	B1	55	THR	3.4
24	D5	41	VAL	3.4
25	E5	44	LEU	3.4
20	e2	20	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
4	X2	27	TYR	3.4
37	I5	169	ASP	3.4
26	F5	135	ARG	3.4
33	R2	90	ALA	3.4
23	B2	53	GLN	3.4
26	F5	132	GLY	3.4
28	I1	63	GLY	3.4
28	I5	39	GLY	3.4
28	I3	127	ALA	3.3
4	X3	80	LYS	3.3
15	O3	13	GLN	3.3
18	Z6	53	ALA	3.3
21	i2	24	C	3.3
21	i2	641	A	3.3
9	g5	9	GLY	3.3
17	Y1	126	GLY	3.3
28	I1	45	THR	3.3
21	i4	791	C	3.3
29	K1	21	MET	3.3
9	g3	278	SER	3.3
37	I2	181	LYS	3.3
4	X6	31	HIS	3.3
21	i4	793	G	3.3
28	I5	46	VAL	3.3
9	g3	233	GLY	3.3
31	P4	35	GLN	3.3
24	D4	119	CYS	3.3
31	P1	134	GLY	3.3
24	D4	2	ALA	3.3
10	C6	193	VAL	3.3
21	i5	1825	A	3.3
9	g6	10	THR	3.3
15	O1	13	GLN	3.2
21	i1	288	G	3.2
28	I6	46	VAL	3.2
21	i2	647	U	3.2
21	i1	791	C	3.2
3	V1	18	SER	3.2
18	Z2	110	THR	3.2
7	d6	51	GLY	3.2
22	A1	76	VAL	3.2
5	a6	73	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
11	G6	166	GLY	3.2
30	L6	26	GLY	3.2
25	E5	47	PHE	3.2
21	i5	307	G	3.2
28	I5	105	ASP	3.2
30	L4	29	GLY	3.2
15	O4	91	THR	3.2
28	I1	102	VAL	3.2
28	I5	104	ILE	3.2
9	g1	225	LYS	3.2
1	T1	89	PRO	3.2
10	C3	234	GLY	3.2
6	c3	57	THR	3.2
11	G4	73	VAL	3.2
15	O5	91	THR	3.2
17	Y1	117	VAL	3.2
29	K5	98	ARG	3.2
9	g3	269	GLU	3.2
17	Y1	123	ALA	3.2
21	i4	908	A	3.2
21	i2	4	C	3.2
12	J1	5	ARG	3.2
31	P4	34	MET	3.2
21	i2	21	U	3.2
11	G6	159	ARG	3.2
21	i4	608	C	3.1
21	i5	1135	C	3.1
28	I5	40	PRO	3.1
6	c5	5	ARG	3.1
15	O3	127	GLY	3.1
28	I5	81	VAL	3.1
15	O3	15	ILE	3.1
34	S2	145	THR	3.1
21	i4	1138	C	3.1
30	L6	39	ASN	3.1
28	I1	83	TYR	3.1
5	a3	45	VAL	3.1
21	i3	1816	G	3.1
24	D2	7	LYS	3.1
12	J2	21	GLU	3.1
12	J6	13	TYR	3.1
21	i1	1665	G	3.1

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Mol	Chain	Res	Type	RSRZ
23	B5	110	MET	3.1
25	E1	222	LEU	3.1
32	Q1	7	LEU	3.1
14	N2	60	VAL	3.1
23	B1	21	VAL	3.1
32	Q1	146	ARG	3.1
3	V3	34	MET	3.1
3	V3	62	MET	3.1
7	d5	50	ILE	3.1
26	F4	132	GLY	3.1
25	E2	2	ALA	3.1
11	G3	76	LEU	3.1
21	i3	799	U	3.1
8	f5	79	LYS	3.1
2	U3	61	LEU	3.1
5	a3	100	ARG	3.1
10	C6	187	ARG	3.1
26	F5	171	GLU	3.1
24	D2	1	MET	3.1
25	E4	151	ASP	3.1
28	I6	207	GLY	3.1
19	b6	3	LEU	3.1
27	H5	59	ALA	3.1
7	d5	52	PHE	3.1
18	Z6	42	ASP	3.0
23	B3	26	SER	3.0
32	Q4	3	SER	3.0
1	T4	61	ALA	3.0
21	i3	206	G	3.0
8	f6	79	LYS	3.0
34	S3	115	LYS	3.0
15	O4	24	GLY	3.0
24	D3	112	GLY	3.0
30	L1	36	TYR	3.0
10	C5	237	ALA	3.0
24	D3	100	ALA	3.0
32	Q4	144	SER	3.0
6	c1	67	ARG	3.0
18	Z6	52	LYS	3.0
1	T1	86	GLY	3.0
1	T3	108	GLU	3.0
23	B1	54	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
24	D4	196	GLY	3.0
23	B3	30	TRP	3.0
21	i1	20	G	3.0
21	i6	788	G	3.0
27	H3	95	ILE	3.0
30	L6	80	MET	3.0
6	c3	68	LEU	3.0
34	S4	128	GLY	3.0
11	G4	208	GLU	3.0
26	F4	131	ALA	3.0
37	l4	124	LYS	3.0
2	U4	35	VAL	3.0
2	U5	63	ILE	3.0
25	E1	225	ILE	3.0
25	E6	24	THR	3.0
32	Q6	3	SER	3.0
17	Y2	126	GLY	3.0
27	H3	96	ALA	3.0
5	a6	24	THR	3.0
11	G1	90	GLY	3.0
21	i1	789	G	3.0
25	E2	181	CYS	3.0
3	V2	34	MET	2.9
4	X1	45	SER	2.9
15	O3	94	HIS	2.9
21	i5	698	G	2.9
21	i6	793	G	2.9
4	X5	125	VAL	2.9
19	b4	8	LEU	2.9
30	L2	25	LEU	2.9
32	Q4	120	LEU	2.9
15	O2	54	CYS	2.9
21	i2	648	A	2.9
5	a3	98	PRO	2.9
11	G3	86	PRO	2.9
21	i3	136	C	2.9
11	G3	94	ARG	2.9
22	A6	145	ILE	2.9
24	D3	16	ILE	2.9
27	H2	165	ASN	2.9
10	C4	256	TRP	2.9
5	a1	100	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
5	a6	22	ARG	2.9
18	Z5	76	ARG	2.9
20	e6	6	LEU	2.9
24	D2	2	ALA	2.9
21	i1	289	G	2.9
24	D4	185	LYS	2.9
31	P5	132	GLY	2.9
17	Y4	131	PRO	2.9
15	O4	27	VAL	2.9
25	E5	48	LEU	2.9
18	Z5	43	LYS	2.9
5	a6	20	PRO	2.9
30	L4	22	ARG	2.9
1	T5	115	LYS	2.9
15	O1	151	LEU	2.9
18	Z2	99	LEU	2.9
32	Q1	6	PRO	2.9
25	E2	122	LYS	2.9
21	i6	1354	G	2.9
24	D5	11	PHE	2.9
18	Z6	96	LEU	2.9
27	H4	146	VAL	2.8
5	a3	57	SER	2.8
7	d4	51	GLY	2.8
14	N3	2	GLY	2.8
15	O4	29	GLY	2.8
5	a6	100	ARG	2.8
21	i1	650	A	2.8
11	G3	206	ALA	2.8
19	b4	9	HIS	2.8
16	W3	39	THR	2.8
20	e6	48	THR	2.8
4	X1	43	GLY	2.8
11	G5	80	GLY	2.8
20	e4	14	GLY	2.8
28	I1	55	TYR	2.8
4	X5	54	LYS	2.8
21	i1	18	C	2.8
12	J2	15	THR	2.8
6	c5	67	ARG	2.8
7	d4	49	ASP	2.8
12	J5	103	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
16	W5	21	GLY	2.8
10	C2	229	CYS	2.8
25	E5	149	TYR	2.8
12	J2	16	PRO	2.8
15	O4	26	ASN	2.8
25	E1	134	LYS	2.8
1	T5	121	ARG	2.8
15	O3	40	THR	2.8
5	a3	68	TYR	2.8
9	g3	283	PRO	2.8
17	Y5	129	LYS	2.8
26	F2	131	ALA	2.8
32	Q3	2	PRO	2.8
33	R6	127	ASN	2.8
15	O4	90	ILE	2.8
24	D3	26	THR	2.8
24	D6	75	LYS	2.8
2	U4	38	ASP	2.8
21	i2	1171	G	2.8
25	E1	176	ASP	2.8
26	F5	121	PRO	2.8
30	L4	24	LEU	2.8
21	i1	304	C	2.8
15	O3	14	VAL	2.8
24	D1	223	ILE	2.8
10	C6	238	LYS	2.8
4	X2	22	TRP	2.8
22	A6	137	ALA	2.8
32	Q4	107	GLU	2.8
34	S3	145	THR	2.8
12	J2	100	LEU	2.8
5	a4	100	ARG	2.7
11	G4	215	LYS	2.7
17	Y5	113	ARG	2.7
11	G1	217	MET	2.7
30	L5	43	GLY	2.7
2	U6	16	ALA	2.7
3	V1	37	ALA	2.7
4	X4	61	GLN	2.7
16	W2	90	GLN	2.7
15	O3	107	THR	2.7
26	F1	133	THR	2.7

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Mol	Chain	Res	Type	RSRZ
6	c3	67	ARG	2.7
16	W4	23	ARG	2.7
24	D3	207	HIS	2.7
10	C6	192	LEU	2.7
23	B6	135	LEU	2.7
27	H5	89	GLY	2.7
31	P3	116	LEU	2.7
22	A6	149	ASN	2.7
30	L3	27	GLU	2.7
2	U5	64	THR	2.7
21	i1	24	C	2.7
25	E6	53	LYS	2.7
28	I5	59	ARG	2.7
24	D1	112	GLY	2.7
5	a5	106	ALA	2.7
14	N1	126	ALA	2.7
21	i4	191	A	2.7
24	D3	90	LYS	2.7
10	C2	230	THR	2.7
21	i3	852	G	2.7
26	F5	16	ASP	2.7
2	U4	37	ALA	2.7
19	b4	4	ALA	2.7
21	i2	650	A	2.7
25	E1	202	PRO	2.7
14	N1	106	ARG	2.7
21	i6	24	C	2.7
6	c5	48	GLY	2.7
5	a6	104	ALA	2.6
24	D3	34	TYR	2.6
27	H5	51	ILE	2.6
28	I5	78	ILE	2.6
5	a3	85	ARG	2.6
28	I1	56	ARG	2.6
26	F5	65	GLN	2.6
12	J5	118	GLY	2.6
21	i4	881	G	2.6
22	A6	148	CYS	2.6
4	X1	19	ASP	2.6
25	E1	22	LYS	2.6
15	O3	149	ARG	2.6
24	D4	136	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
30	L2	22	ARG	2.6
21	i6	1138	C	2.6
4	X1	41	PHE	2.6
9	g4	103	GLY	2.6
11	G5	166	GLY	2.6
20	e5	7	ALA	2.6
22	A3	221	ALA	2.6
23	B2	26	SER	2.6
25	E6	14	ALA	2.6
26	F4	133	THR	2.6
25	E6	261	SER	2.6
22	A1	119	PRO	2.6
27	H3	126	HIS	2.6
21	i2	5	U	2.6
4	X5	2	GLY	2.6
1	T2	100	ALA	2.6
11	G3	93	LYS	2.6
30	L4	30	LYS	2.6
4	X5	102	VAL	2.6
10	C6	141	VAL	2.6
11	G1	212	LEU	2.6
21	i4	407	G	2.6
21	i2	460	A	2.6
23	B5	108	ASP	2.6
29	K6	73	ASN	2.6
24	D5	94	ARG	2.6
30	L4	33	LEU	2.6
10	C6	240	THR	2.6
23	B3	52	THR	2.6
33	R3	120	THR	2.6
9	g3	160	SER	2.6
15	O1	134	PRO	2.6
28	I5	44	HIS	2.6
1	T6	114	GLU	2.6
5	a1	69	VAL	2.6
10	C1	280	VAL	2.6
3	V4	62	MET	2.6
10	C3	227	ARG	2.6
12	J1	18	ARG	2.6
20	e1	7	ALA	2.6
24	D6	92	ALA	2.6
30	L5	149	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
32	Q2	145	TYR	2.6
21	i3	160	U	2.6
9	g3	279	SER	2.6
23	B2	24	PRO	2.6
6	c5	47	LYS	2.6
7	d4	54	LYS	2.6
15	O3	95	ILE	2.6
23	B3	44	ILE	2.6
25	E5	41	CYS	2.6
28	I1	38	ILE	2.6
32	Q4	111	ILE	2.6
11	G3	87	ARG	2.6
21	i4	752	G	2.6
1	T5	38	LYS	2.5
10	C1	65	LYS	2.5
23	B3	67	PHE	2.5
21	i1	4	C	2.5
21	i4	792	C	2.5
27	H4	139	ILE	2.5
30	L5	88	ILE	2.5
16	W4	45	GLY	2.5
11	G1	208	GLU	2.5
12	J2	86	VAL	2.5
21	i6	747	U	2.5
4	X6	54	LYS	2.5
5	a6	17	HIS	2.5
4	X6	42	GLY	2.5
22	A1	74	VAL	2.5
27	H3	185	VAL	2.5
1	T1	83	GLN	2.5
12	J3	185	ALA	2.5
25	E2	165	GLU	2.5
15	O3	33	ILE	2.5
17	Y6	18	LEU	2.5
25	E2	24	THR	2.5
12	J2	99	GLY	2.5
17	Y3	117	VAL	2.5
22	A1	120	ARG	2.5
24	D4	183	GLY	2.5
11	G3	210	ALA	2.5
7	d5	49	ASP	2.5
21	i4	794	A	2.5

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Mol	Chain	Res	Type	RSRZ
21	i5	1133	A	2.5
30	L3	38	LYS	2.5
30	L5	34	PRO	2.5
7	d5	35	GLY	2.5
12	J2	17	ARG	2.5
17	Y1	118	ARG	2.5
20	e2	48	THR	2.5
21	i3	867	G	2.5
30	L3	53	GLY	2.5
25	E1	2	ALA	2.5
4	X3	26	GLN	2.5
37	l3	191	GLU	2.5
11	G4	95	LYS	2.5
25	E3	168	LYS	2.5
30	L1	37	TYR	2.5
25	E2	228	ILE	2.5
28	I2	20	PRO	2.5
10	C1	279	ARG	2.5
24	D3	172	VAL	2.5
6	c5	57	THR	2.5
17	Y2	121	ALA	2.5
4	X5	53	GLU	2.5
15	O3	93	LEU	2.5
9	g2	54	ILE	2.5
28	I5	179	PRO	2.5
36	k2	43	ILE	2.5
17	Y3	125	VAL	2.5
24	D3	178	ARG	2.5
27	H3	98	ARG	2.5
21	i1	294	U	2.5
21	i6	885	U	2.5
21	i4	1139	C	2.5
31	P6	19	GLY	2.5
4	X1	44	ALA	2.5
26	F6	42	LYS	2.5
31	P6	127	LYS	2.5
33	R5	89	SER	2.5
11	G6	162	LEU	2.5
22	A5	156	TYR	2.5
24	D2	152	PHE	2.5
37	l5	161	GLU	2.5
15	O4	53	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
10	C4	208	PRO	2.5
15	O3	138	ASP	2.5
24	D6	80	PRO	2.5
26	F5	143	PRO	2.5
23	B2	51	ARG	2.5
21	i1	502	C	2.5
21	i4	457	C	2.5
22	A3	160	ALA	2.5
1	T6	27	LYS	2.5
26	F2	126	THR	2.4
29	K6	16	PHE	2.4
11	G3	222	GLU	2.4
25	E2	162	ILE	2.4
28	I1	46	VAL	2.4
2	U5	82	MET	2.4
21	i2	1529	C	2.4
21	i4	660	C	2.4
21	i6	1742	C	2.4
28	I5	94	LYS	2.4
12	J1	15	THR	2.4
27	H3	177	TYR	2.4
4	X5	61	GLN	2.4
20	e2	22	GLN	2.4
23	B3	92	GLN	2.4
21	i5	1786	U	2.4
26	F5	141	VAL	2.4
37	l2	121	PRO	2.4
9	g5	234	ASP	2.4
21	i4	790	C	2.4
4	X5	81	ILE	2.4
21	i6	895	G	2.4
11	G6	118	GLU	2.4
5	a6	98	PRO	2.4
11	G4	74	ARG	2.4
17	Y1	114	MET	2.4
22	A1	75	SER	2.4
26	F3	130	ARG	2.4
29	K5	87	PRO	2.4
4	X2	43	GLY	2.4
28	I6	53	LYS	2.4
28	I1	171	LEU	2.4
25	E5	18	TRP	2.4

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Mol	Chain	Res	Type	RSRZ
17	Y3	124	ASN	2.4
25	E2	78	THR	2.4
32	Q4	62	ARG	2.4
1	T3	26	GLY	2.4
15	O4	151	LEU	2.4
25	E2	123	LEU	2.4
21	i5	840	C	2.4
37	l5	162	ASP	2.4
9	g2	12	LYS	2.4
22	A6	162	PRO	2.4
32	Q5	114	GLN	2.4
21	i6	310	C	2.4
22	A6	163	CYS	2.4
30	L5	2	ALA	2.4
28	I1	78	ILE	2.4
1	T6	118	ASP	2.4
8	f6	78	LYS	2.4
21	i1	1476	A	2.4
15	O5	151	LEU	2.4
19	b4	3	LEU	2.4
24	D3	20	GLU	2.4
24	D6	38	GLU	2.4
25	E6	260	GLN	2.4
27	H2	69	LEU	2.4
25	E3	78	THR	2.4
9	g3	255	SER	2.4
12	J3	4	ALA	2.4
21	i6	1830	U	2.4
1	T5	103	VAL	2.4
11	G1	201	LYS	2.4
12	J4	66	LYS	2.4
21	i2	415	A	2.4
21	i4	458	A	2.4
21	i4	628	A	2.4
11	G6	174	PRO	2.3
34	S1	101	ASN	2.4
4	X1	33	GLY	2.3
32	Q4	30	GLY	2.3
33	R6	75	GLU	2.3
8	f6	101	ALA	2.3
26	F5	168	THR	2.3
28	I1	101	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
28	I5	185	ALA	2.3
20	e1	59	SER	2.3
21	i2	26	U	2.3
1	T3	29	LYS	2.3
2	U3	82	MET	2.3
16	W4	3	ARG	2.3
32	Q2	27	ARG	2.3
15	O1	67	ASP	2.3
24	D3	23	GLU	2.3
24	D6	152	PHE	2.3
17	Y3	123	ALA	2.3
30	L2	148	ALA	2.3
5	a2	2	THR	2.3
7	d5	54	LYS	2.3
14	N2	106	ARG	2.3
20	e6	2	VAL	2.3
17	Y2	122	LYS	2.3
22	A6	34	MET	2.3
28	I4	206	LYS	2.3
3	V1	50	PHE	2.3
4	X1	2	GLY	2.3
7	d4	52	PHE	2.3
24	D4	203	PRO	2.3
21	i2	880	G	2.3
21	i4	611	G	2.3
25	E5	187	ALA	2.3
32	Q4	114	GLN	2.3
2	U4	75	LYS	2.3
17	Y5	50	THR	2.3
25	E1	126	VAL	2.3
27	H5	110	THR	2.3
30	L5	6	THR	2.3
10	C5	245	SER	2.3
5	a6	97	PRO	2.3
22	A3	162	PRO	2.3
7	d5	47	ALA	2.3
11	G1	197	GLN	2.3
23	B2	58	ALA	2.3
25	E1	187	ALA	2.3
28	I6	57	ALA	2.3
21	i6	1285	G	2.3
10	C2	276	THR	2.3

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Mol	Chain	Res	Type	RSRZ
24	D4	195	THR	2.3
26	F5	14	THR	2.3
5	a5	41	ILE	2.3
12	J2	102	ILE	2.3
2	U2	118	ASP	2.3
18	Z5	115	GLY	2.3
32	Q3	5	GLY	2.3
32	Q1	139	ALA	2.3
4	X2	20	GLN	2.3
11	G6	165	GLU	2.3
16	W4	32	LYS	2.3
19	b4	53	VAL	2.3
14	N2	54	LEU	2.3
19	b5	81	ARG	2.3
21	i2	1639	G	2.3
21	i5	75	G	2.3
31	P3	83	MET	2.3
21	i2	194	C	2.3
21	i4	1565	C	2.3
28	I6	115	SER	2.3
32	Q1	82	TYR	2.3
24	D3	99	ILE	2.3
24	D5	15	GLY	2.3
30	L5	30	LYS	2.3
32	Q5	122	ALA	2.3
1	T3	22	LEU	2.3
2	U2	112	VAL	2.3
30	L6	25	LEU	2.3
34	S1	15	VAL	2.3
2	U3	81	GLN	2.3
9	g3	285	GLN	2.3
14	N2	104	ARG	2.3
15	O3	130	GLU	2.3
18	Z5	75	GLU	2.3
4	X5	69	CYS	2.3
21	i3	744	G	2.3
21	i4	1094	C	2.3
28	I5	76	THR	2.3
5	a6	21	ILE	2.3
37	l6	157	SER	2.3
5	a6	12	LYS	2.3
9	g5	12	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
14	N2	43	LYS	2.3
15	O4	123	GLY	2.3
27	H4	153	LEU	2.3
11	G6	170	ARG	2.3
12	J2	64	ASP	2.3
24	D1	117	ARG	2.3
32	Q6	40	GLU	2.2
2	U3	28	ASN	2.2
2	U5	84	ILE	2.2
24	D2	184	ILE	2.2
4	X1	49	GLY	2.2
24	D4	112	GLY	2.2
28	I2	140	LYS	2.2
28	I3	128	LYS	2.2
29	K6	91	PRO	2.2
31	P1	125	PRO	2.2
15	O4	44	VAL	2.2
16	W3	62	VAL	2.2
30	L3	35	ARG	2.2
24	D6	89	GLU	2.2
25	E6	40	GLU	2.2
8	f5	111	ASN	2.2
25	E4	154	ILE	2.2
25	E5	82	TYR	2.2
12	J6	15	THR	2.2
31	P1	127	LYS	2.2
9	g5	13	GLY	2.2
12	J1	186	GLY	2.2
2	U5	31	SER	2.2
8	f3	123	SER	2.2
11	G2	210	ALA	2.2
22	A5	222	VAL	2.2
26	F3	122	ARG	2.2
17	Y4	106	GLN	2.2
9	g4	165	ILE	2.2
21	i1	1648	G	2.2
21	i2	23	G	2.2
30	L3	36	TYR	2.2
28	I3	17	LYS	2.2
5	a5	25	ASN	2.2
5	a6	31	PRO	2.2
9	g3	274	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
25	E3	166	THR	2.2
25	E4	177	THR	2.2
30	L6	29	GLY	2.2
34	S3	143	GLY	2.2
2	U6	105	SER	2.2
26	F4	75	SER	2.2
32	Q5	89	SER	2.2
20	e5	3	HIS	2.2
15	O1	130	GLU	2.2
1	T6	110	LEU	2.2
10	C1	266	TYR	2.2
25	E3	149	TYR	2.2
32	Q4	60	LYS	2.2
9	g4	274	VAL	2.2
14	N5	137	PRO	2.2
24	D4	173	ARG	2.2
28	I4	120	PRO	2.2
30	L3	63	THR	2.2
24	D3	35	SER	2.2
25	E6	262	SER	2.2
34	S2	33	ILE	2.2
34	S6	20	ILE	2.2
9	g4	49	GLU	2.2
9	g5	306	LEU	2.2
20	e1	6	LEU	2.2
30	L6	154	GLN	2.2
30	L1	119	ASP	2.2
4	X3	78	GLY	2.2
11	G5	206	ALA	2.2
31	P4	134	GLY	2.2
34	S1	143	GLY	2.2
22	A6	29	ASN	2.2
22	A6	54	THR	2.2
1	T4	110	LEU	2.2
9	g1	44	LYS	2.2
21	i1	1317	C	2.2
21	i3	1565	C	2.2
21	i5	1191	C	2.2
28	I5	103	LEU	2.2
30	L5	37	TYR	2.2
18	Z6	41	ARG	2.2
10	C5	100	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
15	O6	103	ASN	2.2
16	W4	129	PHE	2.2
12	J3	179	LYS	2.2
28	I6	43	ILE	2.2
30	L1	15	THR	2.2
1	T4	42	HIS	2.2
8	f2	103	LEU	2.2
26	F1	134	VAL	2.2
30	L5	145	VAL	2.2
31	P4	104	GLN	2.2
1	T2	121	ARG	2.2
19	b2	13	GLU	2.2
21	i1	1818	A	2.2
21	i5	50	A	2.2
25	E1	200	ARG	2.2
29	K4	21	MET	2.2
5	a5	107	ALA	2.1
19	b1	6	ASP	2.1
4	X1	63	ASN	2.1
12	J1	81	LEU	2.1
27	H1	83	LEU	2.1
28	I3	38	ILE	2.1
20	e3	2	VAL	2.1
5	a6	35	ALA	2.1
9	g3	232	GLY	2.1
15	O4	64	ALA	2.1
21	i5	135	U	2.1
26	F5	58	ALA	2.1
12	J4	67	ASP	2.1
9	g1	54	ILE	2.1
15	O3	97	LEU	2.1
15	O3	143	LYS	2.1
15	O4	143	LYS	2.1
21	i6	881	G	2.1
27	H3	130	LEU	2.1
30	L3	62	PHE	2.1
10	C1	278	THR	2.1
26	F3	133	THR	2.1
1	T3	57	ALA	2.1
9	g3	251	ALA	2.1
10	C2	146	GLU	2.1
15	O1	35	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
25	E4	186	GLY	2.1
30	L5	31	GLU	2.1
2	U5	80	PHE	2.1
12	J1	95	ASP	2.1
12	J4	64	ASP	2.1
14	N5	138	ASN	2.1
15	O3	26	ASN	2.1
23	B3	43	ASN	2.1
27	H3	134	VAL	2.1
27	H4	156	VAL	2.1
3	V1	53	TYR	2.1
21	i4	1095	U	2.1
10	C5	234	GLY	2.1
20	e2	23	GLU	2.1
20	e2	50	GLY	2.1
24	D3	78	GLY	2.1
24	D4	95	GLY	2.1
26	F1	129	GLY	2.1
37	l2	180	GLU	2.1
12	J1	100	LEU	2.1
27	H5	60	ILE	2.1
21	i2	597	G	2.1
21	i2	1425	G	2.1
5	a6	10	ARG	2.1
21	i1	1193	U	2.1
28	I3	18	ARG	2.1
24	D4	55	THR	2.1
6	c1	23	SER	2.1
34	S1	100	ALA	2.1
12	J1	89	GLU	2.1
25	E5	90	ILE	2.1
17	Y2	125	VAL	2.1
30	L2	23	VAL	2.1
32	Q6	121	VAL	2.1
3	V4	61	ARG	2.1
4	X1	5	ARG	2.1
25	E2	200	ARG	2.1
1	T1	144	LYS	2.1
21	i5	837	A	2.1
24	D4	182	LEU	2.1
25	E1	220	THR	2.1
27	H4	147	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
7	d6	47	ALA	2.1
21	i1	1183	A	2.1
13	M2	46	GLN	2.1
33	R3	62	GLN	2.1
5	a6	103	PRO	2.1
12	J6	103	GLU	2.1
7	d4	56	ASP	2.1
20	e5	53	LYS	2.1
24	D3	214	LYS	2.1
33	R4	107	LYS	2.1
5	a5	80	HIS	2.1
9	g3	159	ASN	2.1
26	F1	68	ILE	2.1
28	I6	126	GLY	2.1
10	C1	230	THR	2.1
30	L1	154	GLN	2.1
21	i2	406	U	2.1
21	i2	657	U	2.1
26	F1	81	ARG	2.0
21	i1	748	C	2.0
21	i4	1006	C	2.0
21	i6	133	C	2.0
21	i6	309	G	2.0
30	L3	119	ASP	2.0
34	S6	3	LEU	2.0
5	a3	14	GLY	2.0
9	g3	253	GLY	2.0
21	i2	655	A	2.0
3	V1	52	THR	2.0
25	E1	260	GLN	2.0
4	X5	96	GLU	2.0
9	g3	148	SER	2.0
21	i1	1667	U	2.0
21	i2	44	U	2.0
21	i4	609	U	2.0
24	D5	12	VAL	2.0
1	T3	28	LEU	2.0
1	T6	29	LYS	2.0
18	Z3	96	LEU	2.0
23	B2	27	LYS	2.0
28	I2	60	LEU	2.0
11	G1	145	PHE	2.0

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Mol	Chain	Res	Type	RSRZ
21	i2	193	C	2.0
4	X2	42	GLY	2.0
15	O4	89	GLY	2.0
32	Q6	5	GLY	2.0
9	g2	46	THR	2.0
15	O4	30	VAL	2.0
24	D3	212	GLU	2.0
32	Q1	46	THR	2.0
25	E4	198	ARG	2.0
1	T3	93	SER	2.0
9	g3	135	LEU	2.0
26	F3	34	SER	2.0
26	F5	61	PHE	2.0
25	E6	263	GLY	2.0
33	R2	110	ASP	2.0
21	i3	1088	U	2.0
4	X1	61	GLN	2.0
4	X6	18	ARG	2.0
16	W2	89	TRP	2.0
22	A6	157	VAL	2.0
24	D6	136	VAL	2.0
26	F3	199	VAL	2.0
16	W4	70	ASN	2.0
25	E1	199	GLU	2.0
28	I1	138	ASN	2.0
5	a6	29	CYS	2.0
7	d5	55	LEU	2.0
28	I6	54	LYS	2.0
19	b1	60	SER	2.0
30	L5	110	SER	2.0
32	Q2	144	SER	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
38	ZN	f1	500	1/1	1.00	0.02	80,80,80,80	0
38	ZN	f2	500	1/1	1.00	0.06	80,80,80,80	0
38	ZN	f3	500	1/1	1.00	0.04	80,80,80,80	0
38	ZN	f4	500	1/1	1.00	0.01	80,80,80,80	0
38	ZN	f5	500	1/1	1.00	0.01	80,80,80,80	0
38	ZN	f6	500	1/1	1.00	0.03	80,80,80,80	0

6.5 Other polymers [i](#)

There are no such residues in this entry.