Full wwPDB X-ray Structure Validation Report (i)

Mar 18, 2026 – 08:30 AM UTC

PDB ID	:	4V7K / pdb_00004v7k
Title	:	Structure of RelE nuclease bound to the 70S ribosome (postcleavage state)
Authors	:	Neubauer, C.; Gao, Y.-G.; Andersen, K.R.; Dunham, C.M.; Kelley, A.C.; Hentschel, J.; Gerdes, K.; Ramakrishnan, V.; Brodersen, D.E.
Deposited on	:	2009-11-02
Resolution	:	3.60 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

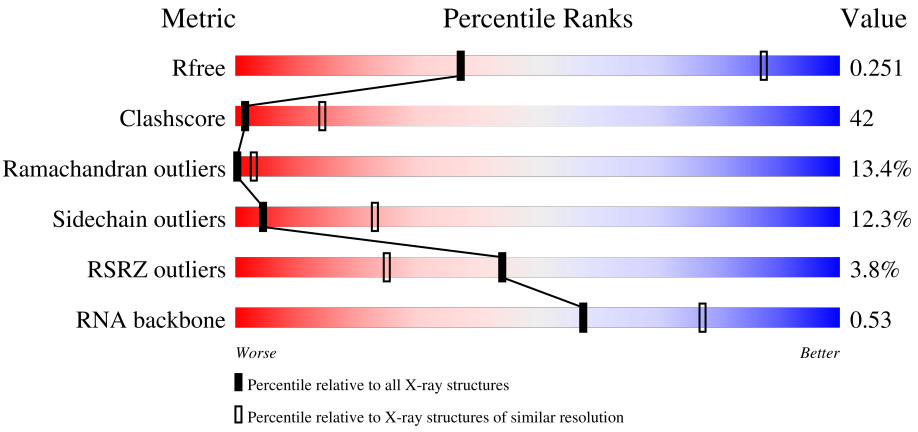
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.60 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	1747 (3.70-3.50)
Clashscore	190562	1827 (3.70-3.50)
Ramachandran outliers	187476	1773 (3.70-3.50)
Sidechain outliers	187428	1772 (3.70-3.50)
RSRZ outliers	180081	1745 (3.70-3.50)
RNA backbone	3983	1014 (4.14-3.06)

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

Mol	Chain	Length	Quality of chain
1	Ab	256	3% 12% 58% 20% • 9%
1	Bb	256	3% 14% 56% 20% • 9%
2	Ac	239	% 18% 53% 15% 14%
2	Bc	239	2% 19% 52% 15% 14%

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Mol	Chain	Length	Quality of chain
3	Ad	209	4% 24% 55% 19%
3	Bd	209	3% 24% 56% 19%
4	Ae	162	% 22% 50% 20% 7%
4	Be	162	% 20% 51% 22% 7%
5	Af	101	2% 27% 60% 12%
5	Bf	101	5% 27% 59% 13%
6	Ag	156	5% 29% 58% 12%
6	Bg	156	4% 26% 61% 12%
7	Ah	138	6% 31% 57% 12%
7	Bh	138	5% 30% 59% 11%
8	Ai	128	12% 18% 62% 18%
8	Bi	128	7% 18% 62% 18%
9	Aj	105	4% 13% 64% 15% 7%
9	Bj	105	2% 15% 62% 15% 7%
10	Ak	129	2% 31% 49% 12% 8%
10	Bk	129	3% 29% 51% 12% 8%
11	Al	132	5% 26% 48% 19% 6%
11	Bl	132	5% 27% 48% 17% 6%
12	Am	126	11% 12% 56% 22% 6%
12	Bm	126	6% 14% 56% 19% 5% 6%
13	An	61	25% 20% 61% 18%
13	Bn	61	7% 23% 57% 18%
14	Ao	89	2% 29% 55% 12%
14	Bo	89	2% 28% 57% 11%
15	Ap	88	2% 24% 60% 9% 6%

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Mol	Chain	Length	Quality of chain
15	Bp	88	3% 22% 66% 5% 6%
16	Aq	105	4% 39% 47% 8% 6%
16	Bq	105	4% 37% 49% 8% 6%
17	Ar	88	3% 23% 42% 14% 20%
17	Br	88	23% 41% 15% 20%
18	As	93	10% 13% 46% 23% 16%
18	Bs	93	4% 13% 46% 23% 16%
19	At	106	8% 25% 54% 15% 7%
19	Bt	106	3% 26% 52% 15% 7%
20	Au	27	15% 41% 37% 11% 11%
20	Bu	27	22% 41% 41% 7% 11%
21	Ay	95	7% 22% 53% 18% 6%
21	By	95	8% 13% 60% 22%
22	Aa	1504	3% 25% 64% 11%
22	Ba	1504	2% 23% 65% 12%
23	Ax	14	21% 21% 29% 43% 7%
23	Bx	14	57% 7% 43% 43% 7%
24	Av	77	% 38% 48% 13%
24	Bv	77	% 31% 51% 17%
25	Aw	77	3% 18% 70% 10%
25	Bw	77	3% 14% 79% 6%
26	AC	229	3% 17% 31% 48%
26	BC	229	2% 17% 31% 48%
27	AD	276	3% 25% 50% 20%
27	BD	276	2% 25% 51% 20%

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Mol	Chain	Length	Quality of chain
28	AE	206	2% 26% 43% 27%
28	BE	206	4% 24% 46% 26%
29	AF	210	% 24% 53% 20%
29	BF	210	2% 25% 54% 19%
30	AG	182	2% 10% 58% 27%
30	BG	182	2% 6% 60% 29% 5%
31	AH	180	3% 18% 49% 21% 9%
31	BH	180	12% 18% 51% 19% 9%
32	AI	148	24% 15% 53% 26%
32	BI	148	18% 14% 53% 28%
33	AJ	173	8% 36% 26% 13% 25%
33	BJ	173	16% 25% 31% 16% 25%
34	AN	140	2% 28% 41% 29%
34	BN	140	2% 26% 43% 29%
35	AO	122	38% 51% 11%
35	BO	122	38% 51% 10%
36	AP	150	7% 16% 43% 34%
36	BP	150	11% 16% 44% 33%
37	AQ	141	4% 37% 46% 16%
37	BQ	141	4% 35% 46% 18%
38	AR	118	3% 24% 53% 20%
38	BR	118	3% 25% 48% 22%
39	AS	112	14% 11% 42% 31% 12%
39	BS	112	12% 12% 40% 32% 12%
40	AT	146	6% 13% 49% 23% 7% 8%

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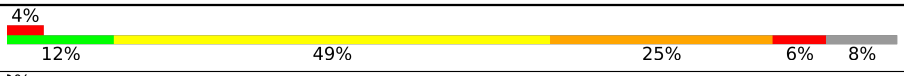
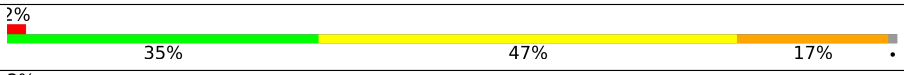
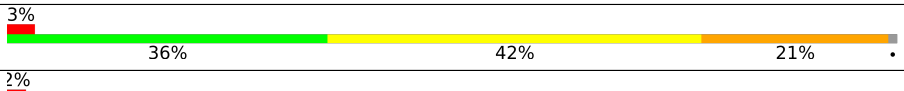
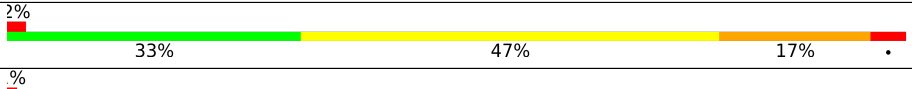
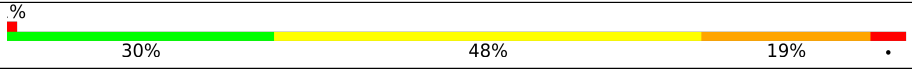
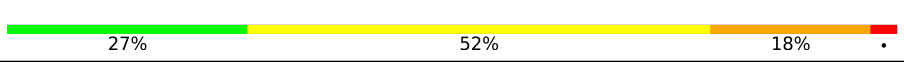
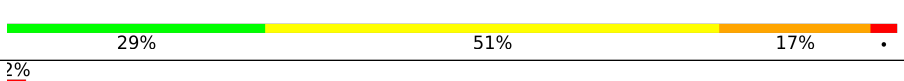
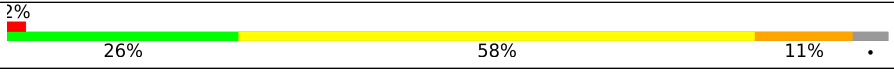
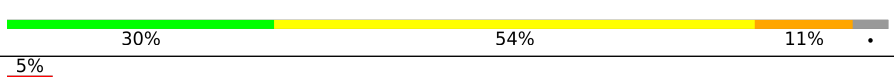
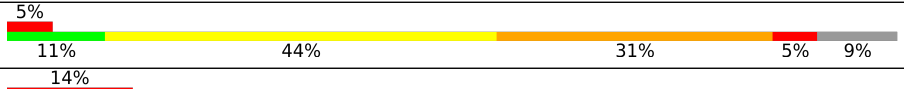
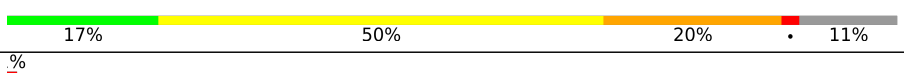
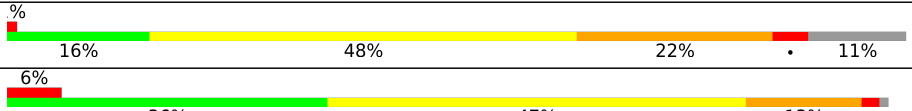
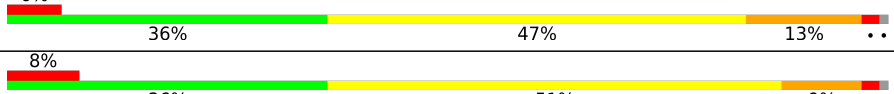
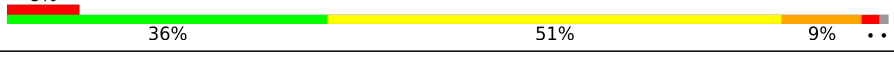
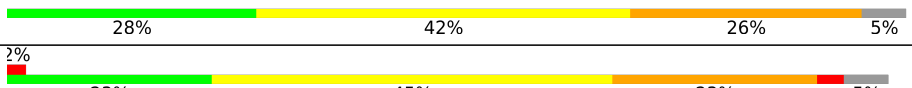
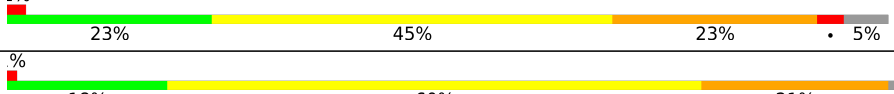
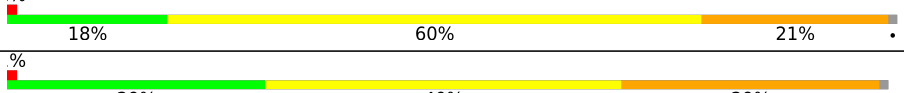
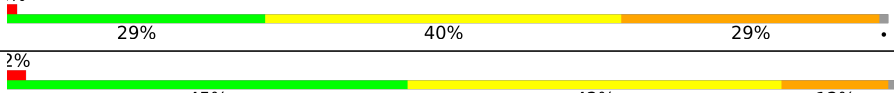
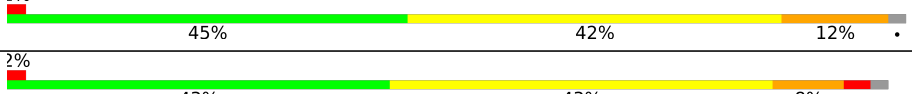
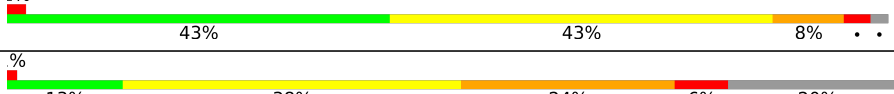
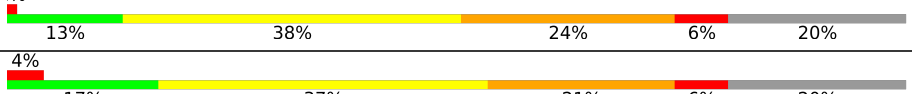
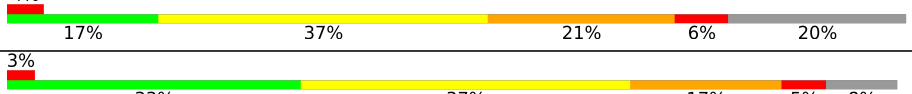
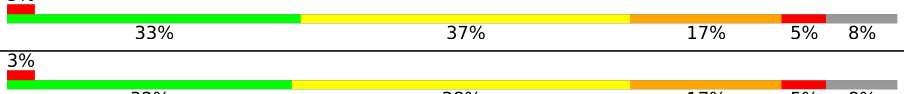
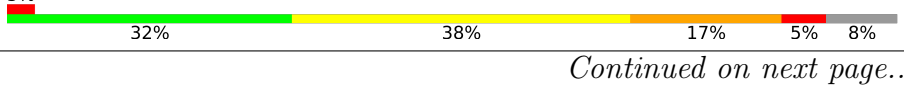
Mol	Chain	Length	Quality of chain
40	BT	146	
41	AU	118	
41	BU	118	
42	AV	101	
42	BV	101	
43	AW	113	
43	BW	113	
44	AX	96	
44	BX	96	
45	AY	110	
45	BY	110	
46	AZ	206	
46	BZ	206	
47	A0	85	
47	B0	85	
48	A1	98	
48	B1	98	
49	A2	72	
49	B2	72	
50	A3	60	
50	B3	60	
51	A4	71	
51	B4	71	
52	A5	60	
52	B5	60	

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Mol	Chain	Length	Quality of chain
53	A6	54	17% 7% 44% 33% 7% 7%
53	B6	54	13% 9% 41% 35% 7% 7%
54	A7	49	2% 41% 43% 10%
54	B7	49	2% 37% 49% 8%
55	A8	65	5% 17% 45% 28% 8%
55	B8	65	6% 18% 43% 29% 6%
56	A9	37	32% 38% 59%
56	B9	37	22% 35% 62%
57	AA	2848	% 33% 52% 14%
57	BA	2848	2% 32% 52% 14%
58	AB	119	6% 23% 63% 14%
58	BB	119	8% 26% 61% 13%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
60	MG	AA	2928	-	-	-	X
60	MG	AA	3117	-	-	-	X
60	MG	AA	3214	-	-	-	X
60	MG	AA	3218	-	-	-	X
60	MG	AA	3248	-	-	-	X
60	MG	AQ	201	-	-	-	X
60	MG	Aa	1602	-	-	-	X
60	MG	Aa	1615	-	-	-	X
60	MG	Aa	1636	-	-	-	X
60	MG	Aa	1669	-	-	-	X
60	MG	Aa	1700	-	-	-	X
60	MG	Aa	1703	-	-	-	X
60	MG	Aa	1713	-	-	-	X
60	MG	Aa	1727	-	-	-	X
60	MG	Ae	201	-	-	-	X
60	MG	BA	2958	-	-	-	X
60	MG	BA	3099	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
60	MG	BA	3160	-	-	-	X
60	MG	BA	3180	-	-	-	X
60	MG	BA	3198	-	-	-	X
60	MG	BA	3243	-	-	-	X
60	MG	BA	3254	-	-	-	X
60	MG	BA	3264	-	-	-	X
60	MG	Ba	1665	-	-	-	X
60	MG	Ba	1676	-	-	-	X
60	MG	Ba	1681	-	-	-	X
60	MG	Ba	1702	-	-	-	X
60	MG	Ba	1706	-	-	-	X

2 Entry composition (i)

There are 60 unique types of molecules in this entry. The entry contains 297230 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 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Ab	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			
1	Bb	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 2 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	Ac	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			
2	Bc	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 3 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	Ad	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
3	Bd	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 4 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	Ae	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			
4	Be	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			

- Molecule 5 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	Af	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
5	Bf	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 6 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	Ag	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
6	Bg	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 7 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	Ah	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
7	Bh	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 8 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
8	Ai	127	Total	C	N	O	0	0	0
			1010	639	197	174			
8	Bi	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 9 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	Aj	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			
9	Bj	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 10 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	Ak	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	Bk	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 11 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	Al	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			
11	Bl	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

- Molecule 12 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	Am	118	Total	C	N	O	S	0	0	0
			937	579	193	163	2			
12	Bm	118	Total	C	N	O	S	0	0	0
			937	579	193	163	2			

- Molecule 13 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	An	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
13	Bn	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 14 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	Ao	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
14	Bo	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 15 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	Ap	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
15	Bp	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 16 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	Aq	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
16	Bq	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 17 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	Ar	70	Total	C	N	O	0	0	0
			574	367	112	95			
17	Br	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 18 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	As	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			
18	Bs	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			

- Molecule 19 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	At	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
19	Bt	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 20 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	Au	24	Total	C	N	O	0	0	0
			208	128	50	30			
20	Bu	24	Total	C	N	O	0	0	0
			208	128	50	30			

- Molecule 21 is a protein called Toxin relE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	Ay	94	Total	C	N	O	S	0	0	0
			782	502	139	139	2			
21	By	94	Total	C	N	O	S	0	0	0
			782	502	139	139	2			

- Molecule 22 is a RNA chain called RNA (1504-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	Aa	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			
22	Ba	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

- Molecule 23 is a RNA chain called RNA (5'-R(*A*AP*GP*UP*AP*AP*AP*AP*AP*UP* GP*UP*A*(CCC))-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	Ax	13	Total	C	N	O	P	0	0	0
			260	117	51	80	12			
23	Bx	13	Total	C	N	O	P	0	0	0
			260	117	51	80	12			

- Molecule 24 is a RNA chain called RNA (77-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	Av	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			
24	Bv	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			

- Molecule 25 is a RNA chain called RNA (77-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	Aw	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
25	Bw	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 26 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	AC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			
26	BC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	AD	271	Total	C	N	O	S	0	0	0
			2104	1329	416	356	3			
27	BD	271	Total	C	N	O	S	0	0	0
			2104	1329	416	356	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	AE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			
28	BE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	AF	207	Total	C	N	O	S	0	0	0
			1623	1035	303	282	3			
29	BF	207	Total	C	N	O	S	0	0	0
			1623	1035	303	282	3			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AH	164	Total	C	N	O	S	0	0	0
			1259	800	233	225	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	164	Total	C	N	O	S	0	0	0
			1259	800	233	225	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AI	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			
32	BI	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			

- Molecule 33 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
33	AJ	130	Total	C	N	O	0	0	0
			641	381	130	130			
33	BJ	130	Total	C	N	O	0	0	0
			641	381	130	130			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	AN	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
34	BN	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 35 is a protein called 50S ribosomal protein L14.

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

- Molecule 36 is a protein called 50S ribosomal protein L15.

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

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AQ	140	Total	C	N	O	S	0	0	0
			1112	710	210	185	7			
37	BQ	140	Total	C	N	O	S	0	0	0
			1112	710	210	185	7			

- Molecule 38 is a protein called 50S ribosomal protein L17.

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

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	AS	98	Total	C	N	O	0	0	0
			770	486	154	130			
39	BS	98	Total	C	N	O	0	0	0
			770	486	154	130			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	AT	135	Total	C	N	O	S	0	0	0
			1123	699	230	193	1			
40	BT	135	Total	C	N	O	S	0	0	0
			1123	699	230	193	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

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

- Molecule 42 is a protein called 50S ribosomal protein L21.

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

- Molecule 43 is a protein called 50S ribosomal protein L22.

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

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	AX	92	Total	C	N	O	0	0	0
			725	471	131	123			
44	BX	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	AY	100	Total	C	N	O	S	0	0	0
			775	500	148	123	4			
45	BY	100	Total	C	N	O	S	0	0	0
			775	500	148	123	4			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	AZ	184	Total	C	N	O	S	0	0	0
			1467	936	261	268	2			
46	BZ	184	Total	C	N	O	S	0	0	0
			1467	936	261	268	2			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	A0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	A1	93	Total	C	N	O	S	0	0	0
			731	460	145	125	1			
48	B1	93	Total	C	N	O	S	0	0	0
			731	460	145	125	1			

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	A2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			
49	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	A3	59	Total	C	N	O	S	0	0	0
			467	298	90	78	1			
50	B3	59	Total	C	N	O	S	0	0	0
			467	298	90	78	1			

- Molecule 51 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	A4	57	Total	C	N	O	S	0	0	0
			450	285	77	83	5			
51	B4	57	Total	C	N	O	S	0	0	0
			450	285	77	83	5			

- Molecule 52 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	A5	55	Total	C	N	O	S	0	0	0
			427	267	86	69	5			
52	B5	55	Total	C	N	O	S	0	0	0
			427	267	86	69	5			

- Molecule 53 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	A6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			
53	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	A7	47	Total	C	N	O	S	0	0	0
			409	251	102	54	2			
54	B7	47	Total	C	N	O	S	0	0	0
			409	251	102	54	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	A8	63	Total	C	N	O	S	0	0	0
			507	326	101	78	2			
55	B8	63	Total	C	N	O	S	0	0	0
			507	326	101	78	2			

- Molecule 56 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	A9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
56	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 57 is a RNA chain called RNA (2848-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	AA	2848	Total	C	N	O	P	0	0	0
			61341	27300	11478	19716	2847			
57	BA	2848	Total	C	N	O	P	0	0	0
			61341	27300	11478	19716	2847			

- Molecule 58 is a RNA chain called RNA (119-MER).

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

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	Ad	1	Total 1	Zn 1	0	0
59	An	1	Total 1	Zn 1	0	0
59	A4	1	Total 1	Zn 1	0	0
59	A9	1	Total 1	Zn 1	0	0
59	Bd	1	Total 1	Zn 1	0	0
59	Bn	1	Total 1	Zn 1	0	0
59	B4	1	Total 1	Zn 1	0	0
59	B9	1	Total 1	Zn 1	0	0

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	Ae	2	Total 2	Mg 2	0	0
60	Aa	145	Total 145	Mg 145	0	0
60	Av	5	Total 5	Mg 5	0	0
60	Aw	1	Total 1	Mg 1	0	0
60	AD	2	Total 2	Mg 2	0	0
60	AF	1	Total 1	Mg 1	0	0
60	AQ	1	Total 1	Mg 1	0	0
60	AX	1	Total 1	Mg 1	0	0

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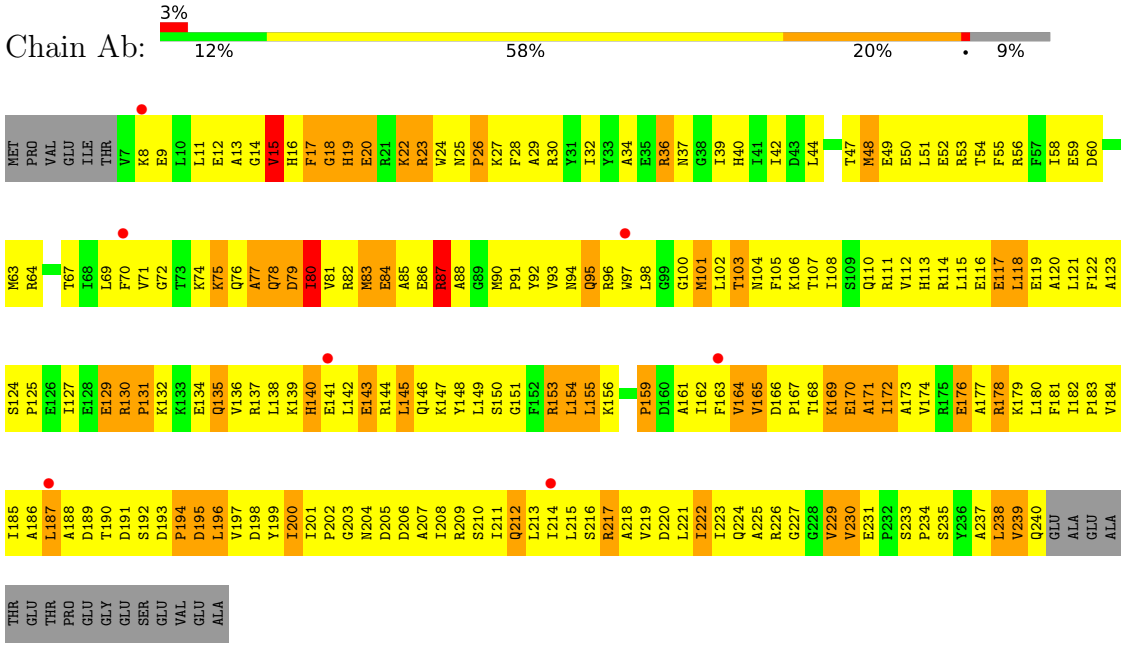
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	A1	2	Total Mg 2 2	0	0
60	A5	1	Total Mg 1 1	0	0
60	A7	1	Total Mg 1 1	0	0
60	AA	367	Total Mg 367 367	0	0
60	AB	3	Total Mg 3 3	0	0
60	Bd	1	Total Mg 1 1	0	0
60	Bl	1	Total Mg 1 1	0	0
60	Bm	1	Total Mg 1 1	0	0
60	Ba	143	Total Mg 143 143	0	0
60	Bx	1	Total Mg 1 1	0	0
60	Bv	5	Total Mg 5 5	0	0
60	Bw	1	Total Mg 1 1	0	0
60	BD	2	Total Mg 2 2	0	0
60	BF	1	Total Mg 1 1	0	0
60	BO	1	Total Mg 1 1	0	0
60	BX	1	Total Mg 1 1	0	0
60	B0	2	Total Mg 2 2	0	0
60	B5	2	Total Mg 2 2	0	0
60	B7	2	Total Mg 2 2	0	0
60	BA	365	Total Mg 365 365	0	0
60	BB	3	Total Mg 3 3	0	0

3 Residue-property plots (i)

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

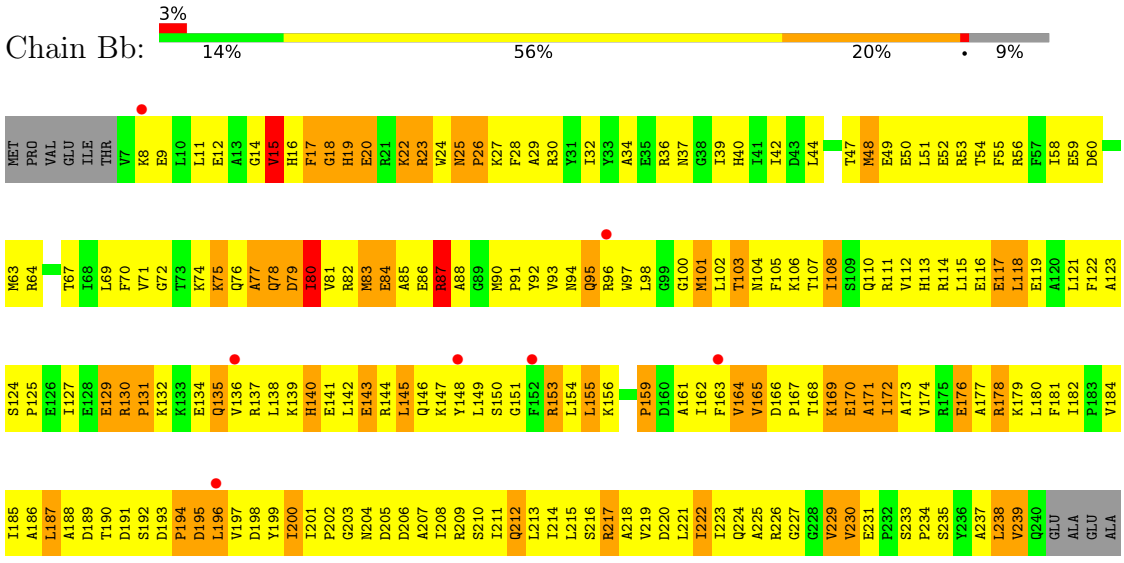
• Molecule 1: 30S ribosomal protein S2

Chain Ab:



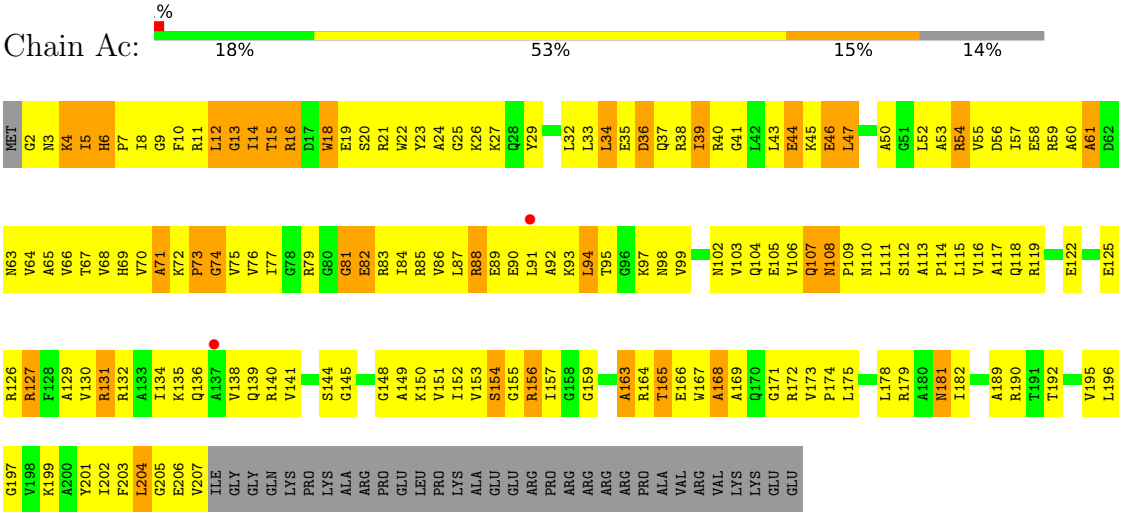
• Molecule 1: 30S ribosomal protein S2

Chain Bb:



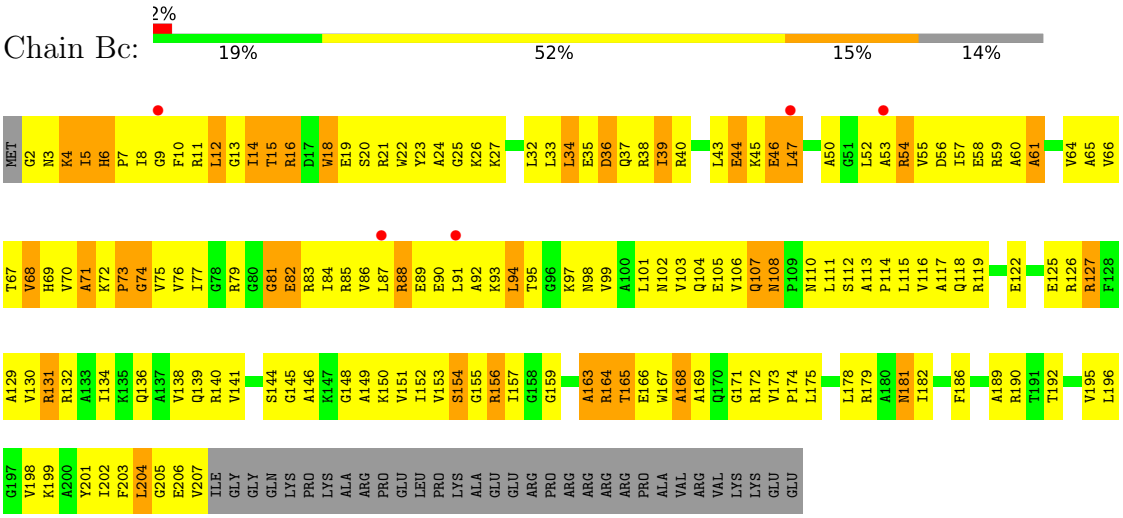
• Molecule 2: 30S ribosomal protein S3

Chain Ac:



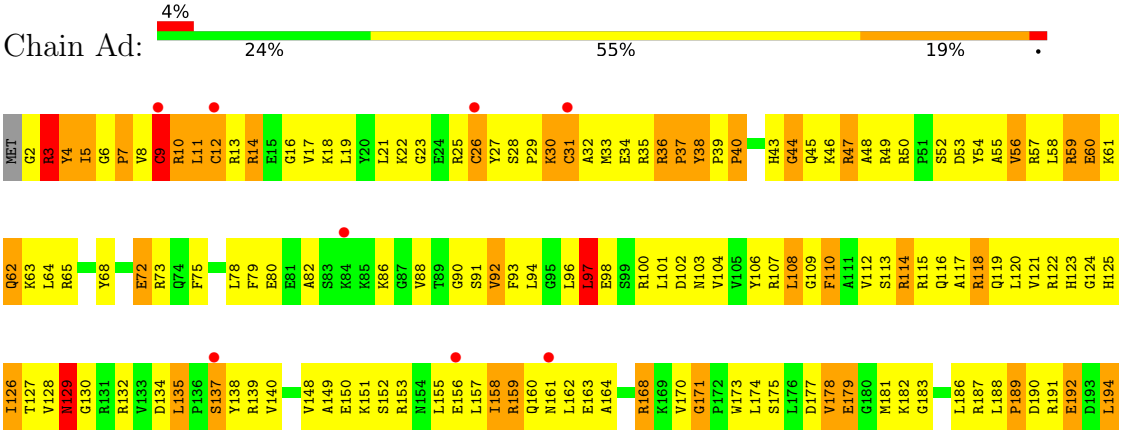
• Molecule 2: 30S ribosomal protein S3

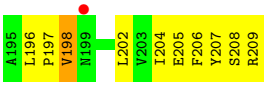
Chain Bc:



• Molecule 3: 30S ribosomal protein S4

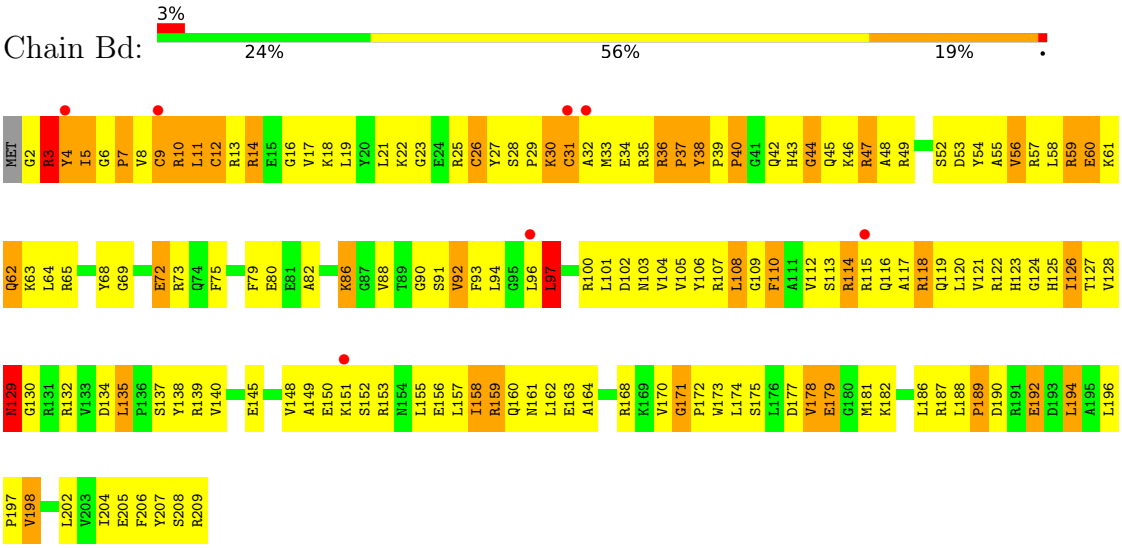
Chain Ad:





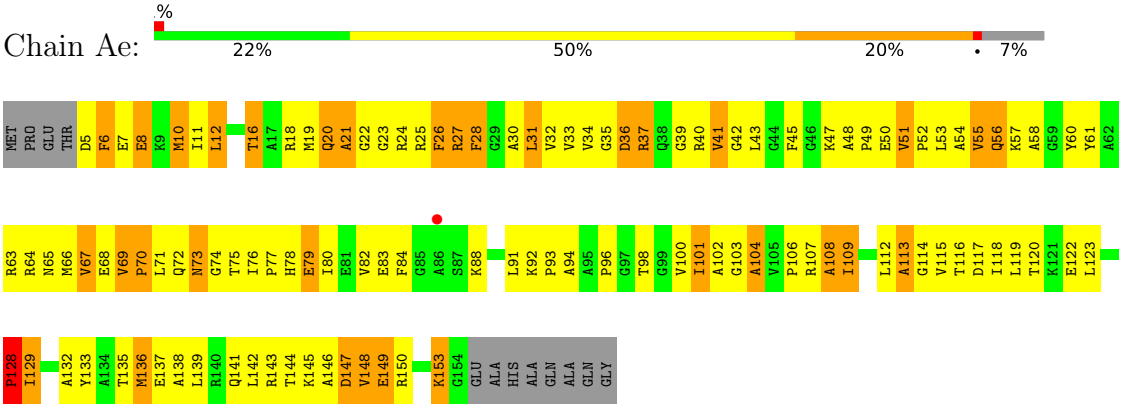
• Molecule 3: 30S ribosomal protein S4

Chain Bd:



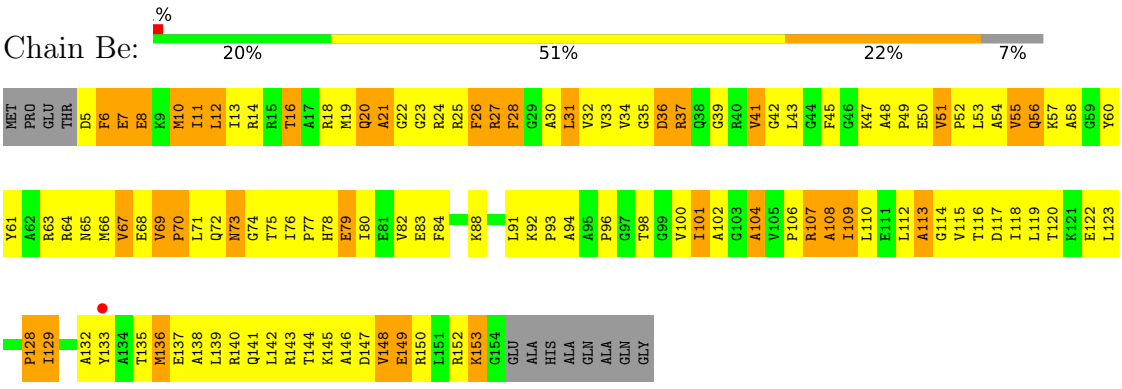
• Molecule 4: 30S ribosomal protein S5

Chain Ae:



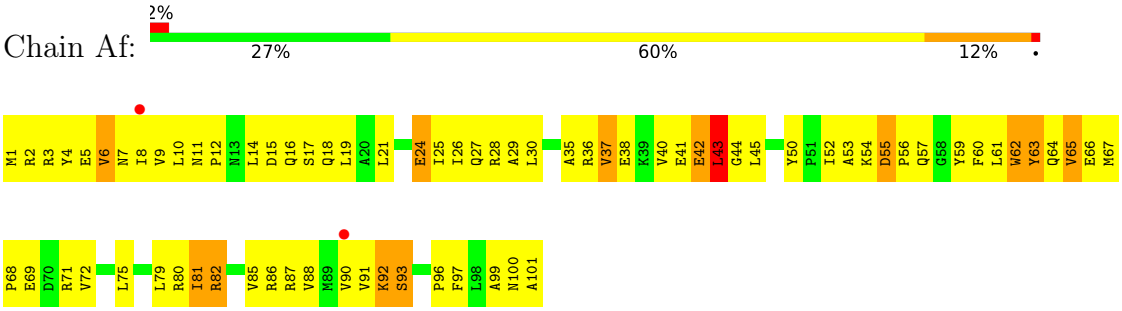
• Molecule 4: 30S ribosomal protein S5

Chain Be:



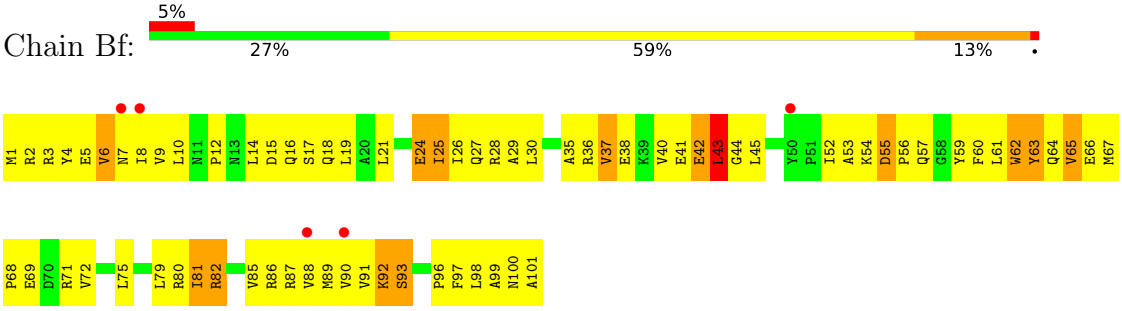
• Molecule 5: 30S ribosomal protein S6

Chain Af:



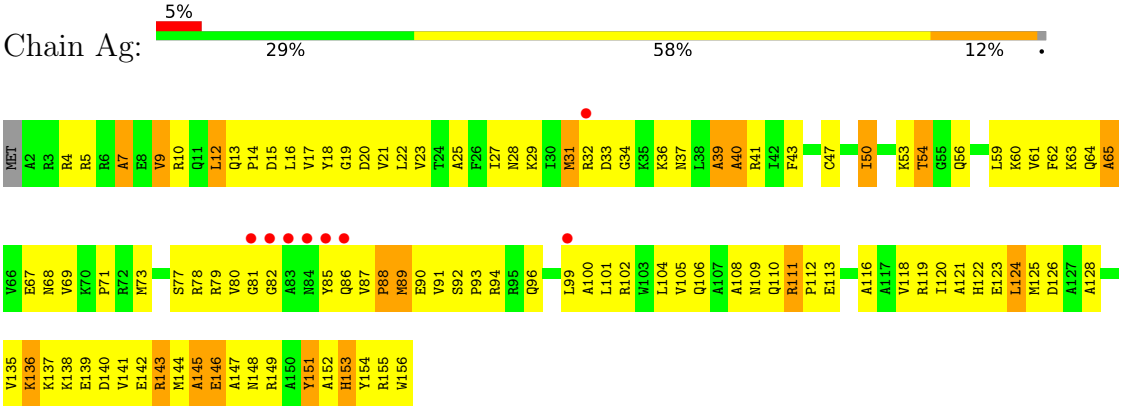
• Molecule 5: 30S ribosomal protein S6

Chain Bf:



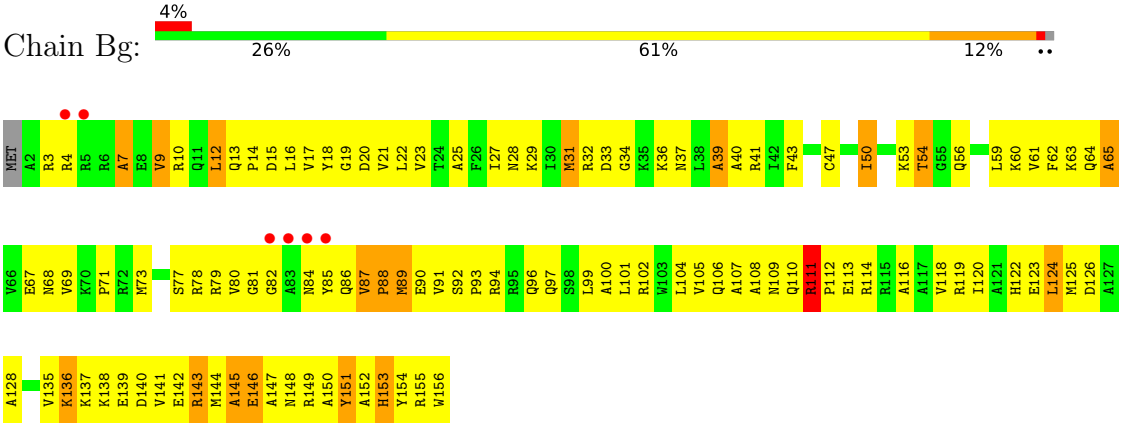
• Molecule 6: 30S ribosomal protein S7

Chain Ag:



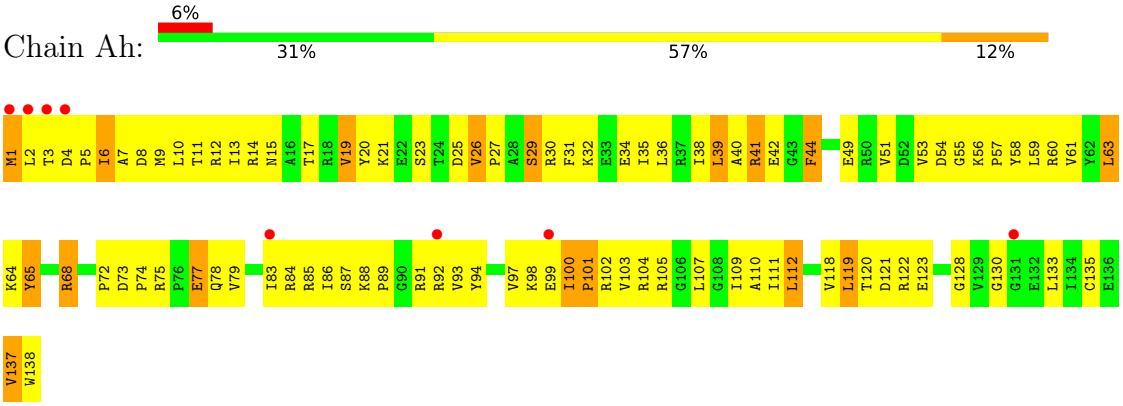
• Molecule 6: 30S ribosomal protein S7

Chain Bg:



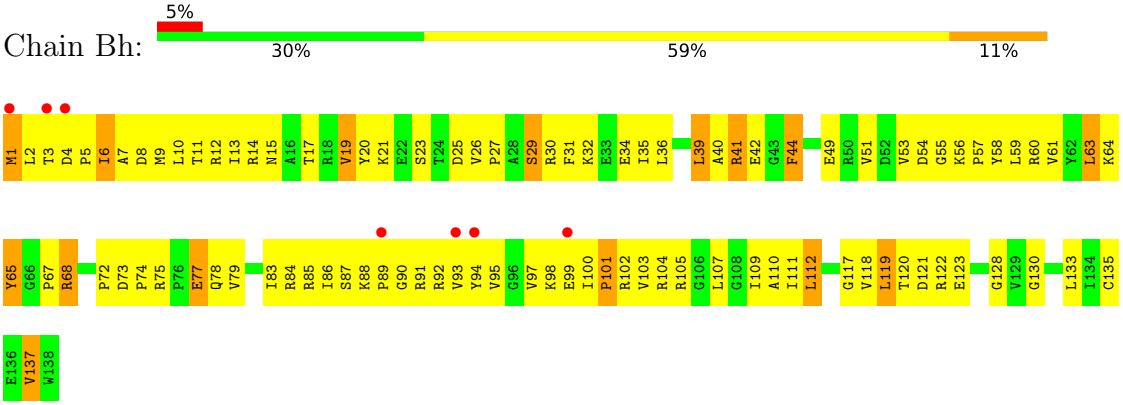
• Molecule 7: 30S ribosomal protein S8

Chain Ah:



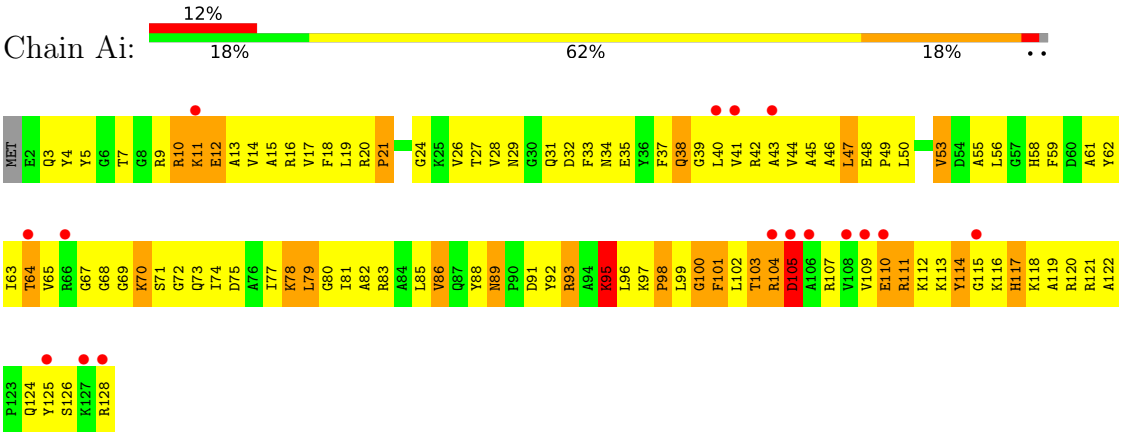
• Molecule 7: 30S ribosomal protein S8

Chain Bh:



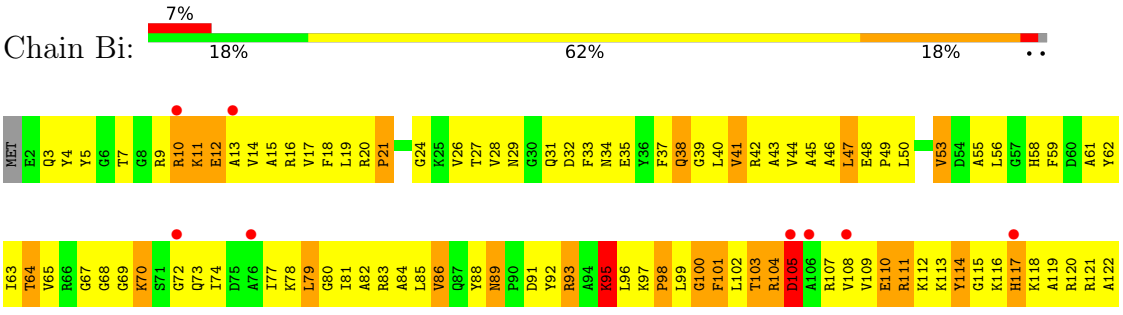
• Molecule 8: 30S ribosomal protein S9

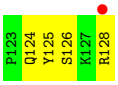
Chain Ai:



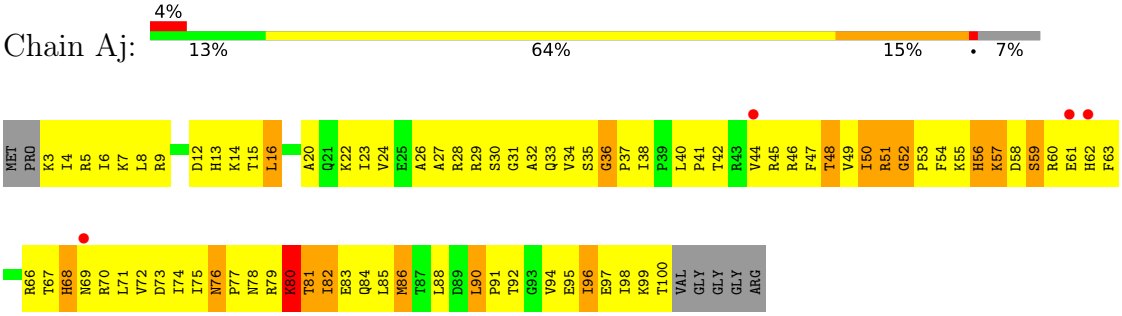
• Molecule 8: 30S ribosomal protein S9

Chain Bi:

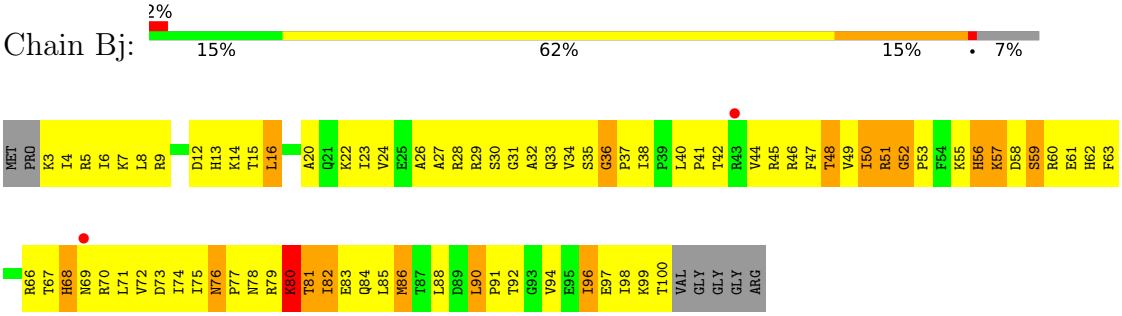




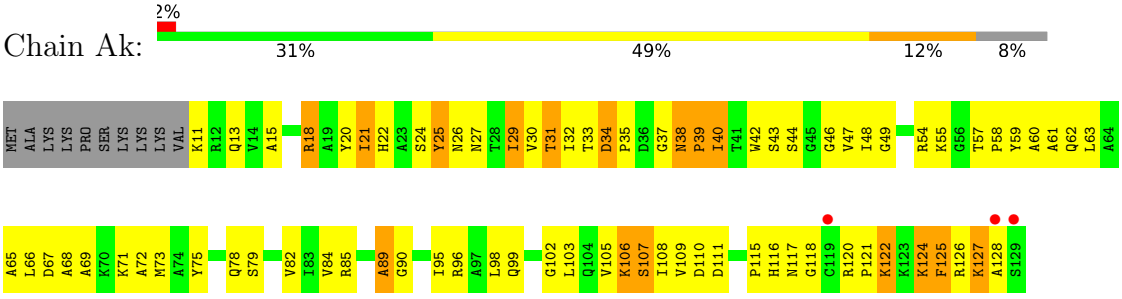
• Molecule 9: 30S ribosomal protein S10



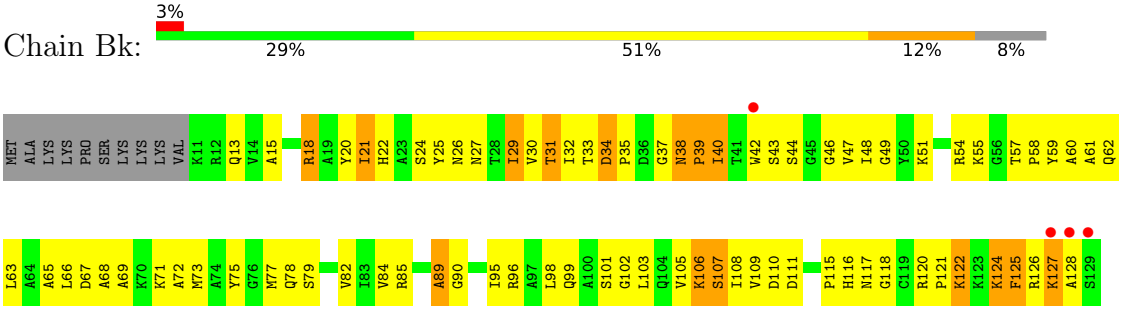
• Molecule 9: 30S ribosomal protein S10



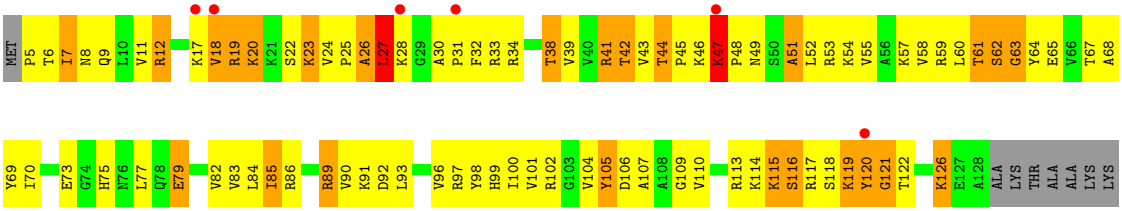
• Molecule 10: 30S ribosomal protein S11



• Molecule 10: 30S ribosomal protein S11

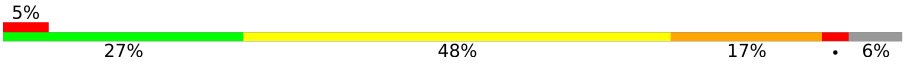


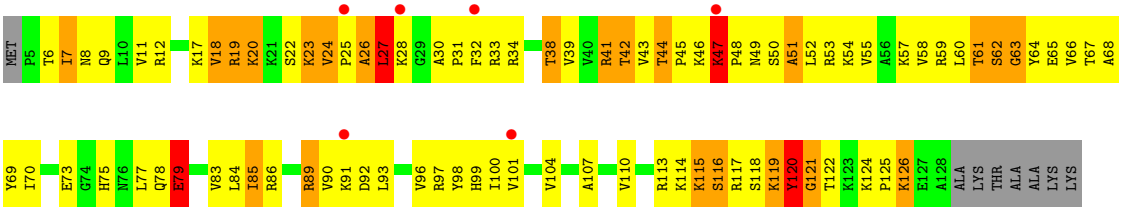
• Molecule 11: 30S ribosomal protein S12



• Molecule 11: 30S ribosomal protein S12

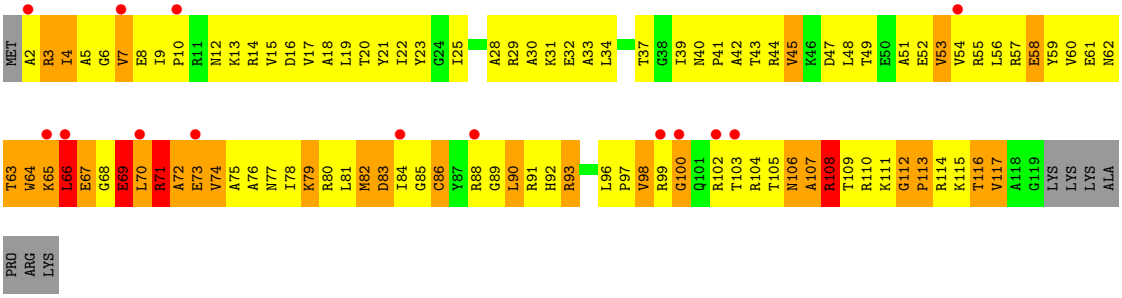
Chain Bl:





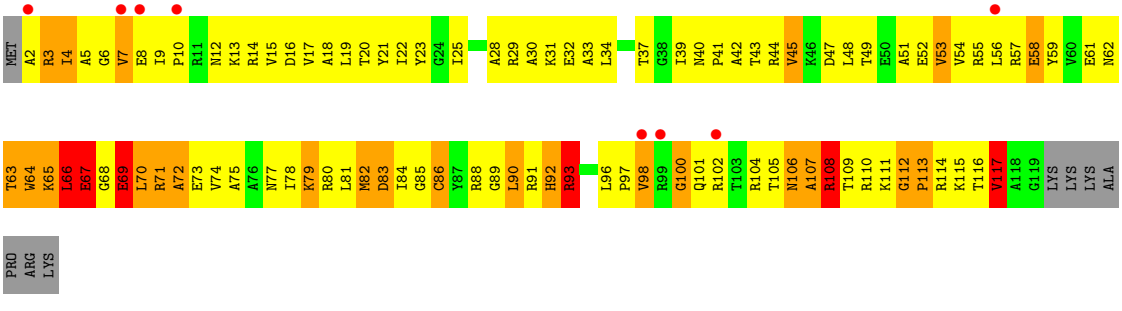
• Molecule 12: 30S ribosomal protein S13

Chain Am:



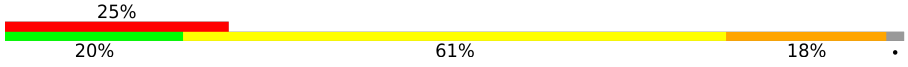
• Molecule 12: 30S ribosomal protein S13

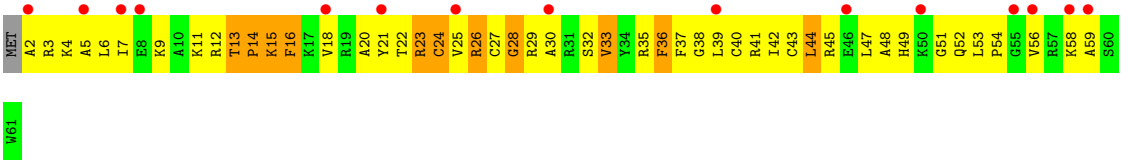
Chain Bm:



• Molecule 13: 30S ribosomal protein S14 type Z

Chain An:





• Molecule 13: 30S ribosomal protein S14 type Z

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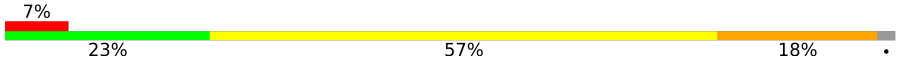
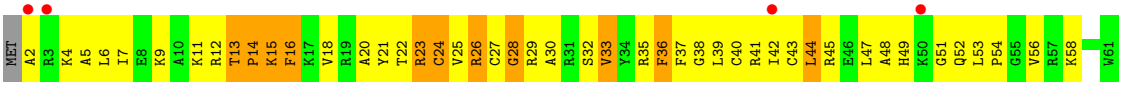
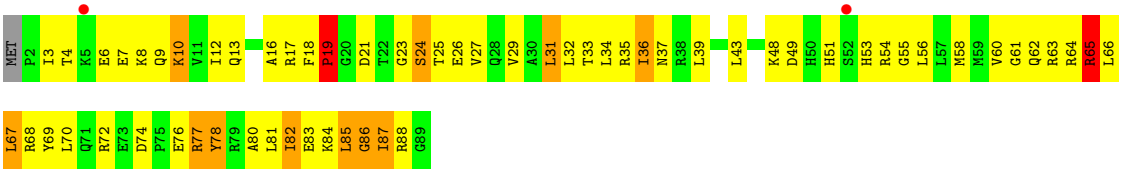




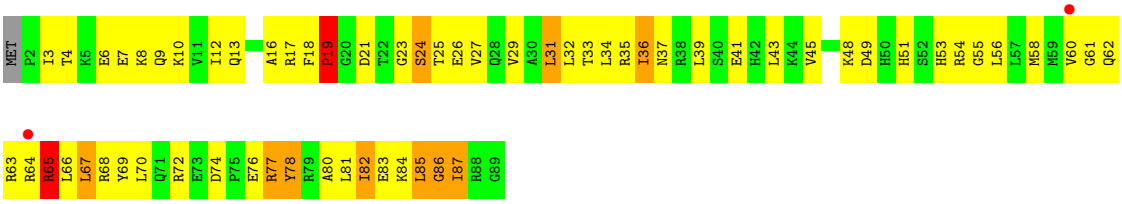
• Molecule 14: 30S ribosomal protein S15

Chain Ao:



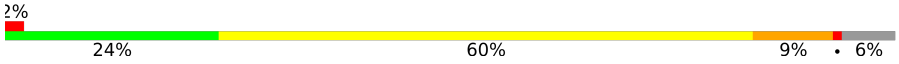
• Molecule 14: 30S ribosomal protein S15

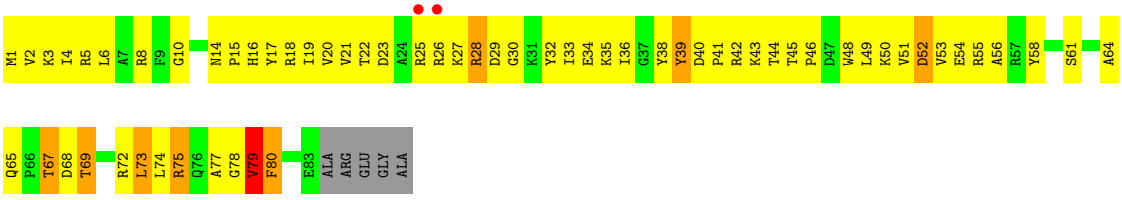
Chain Bo:



• Molecule 15: 30S ribosomal protein S16

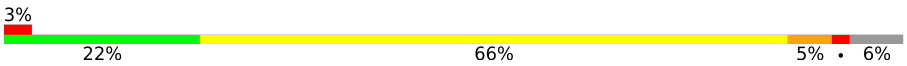
Chain Ap:

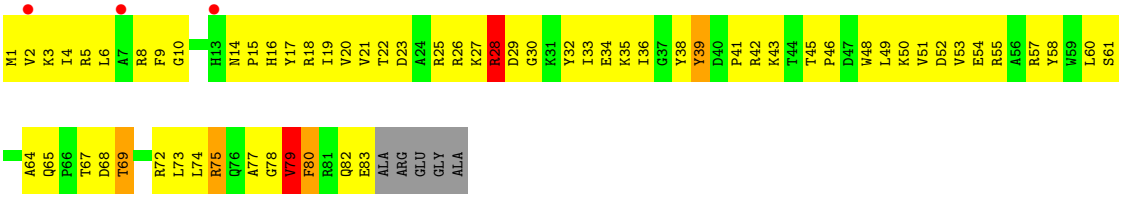




• Molecule 15: 30S ribosomal protein S16

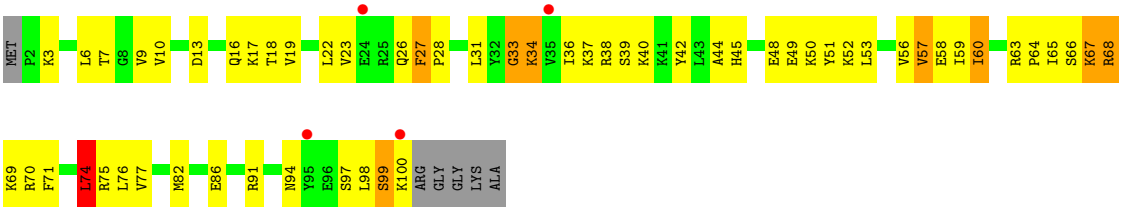
Chain Bp:





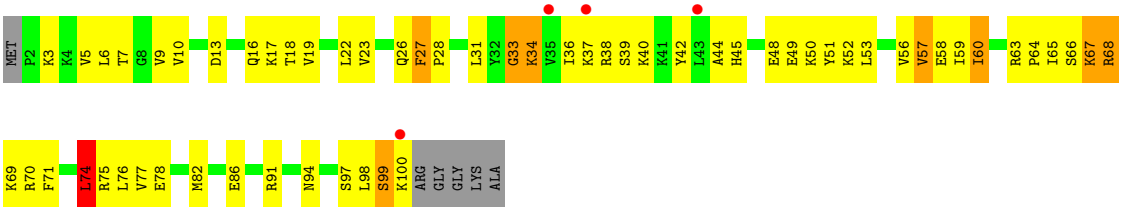
• Molecule 16: 30S ribosomal protein S17

Chain Aq:



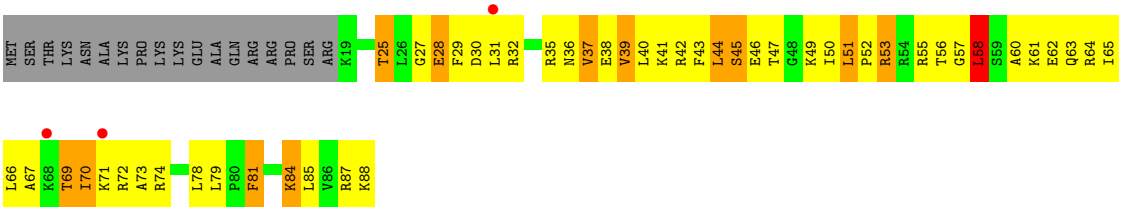
• Molecule 16: 30S ribosomal protein S17

Chain Bq:



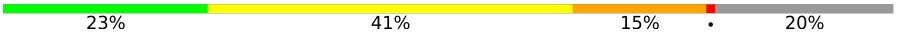
• Molecule 17: 30S ribosomal protein S18

Chain Ar:



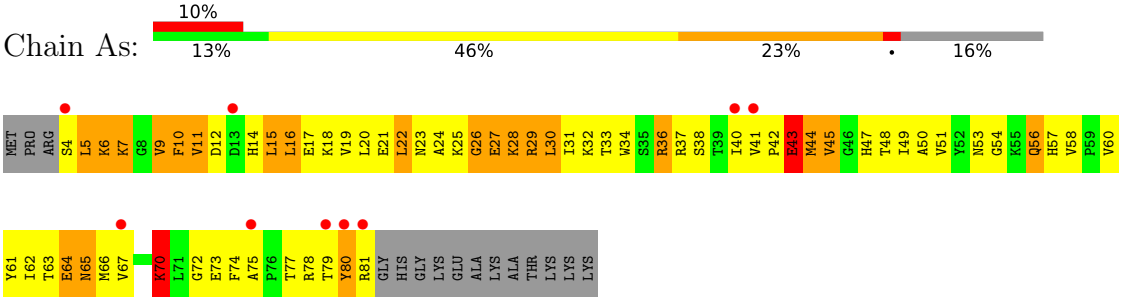
• Molecule 17: 30S ribosomal protein S18

Chain Br:



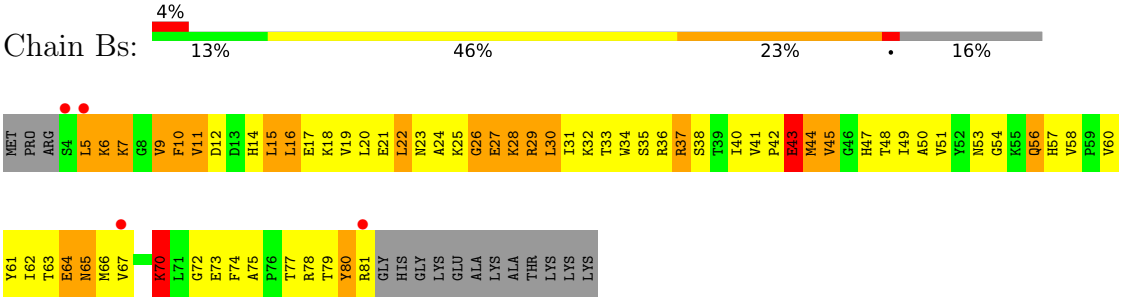
• Molecule 18: 30S ribosomal protein S19

Chain As:



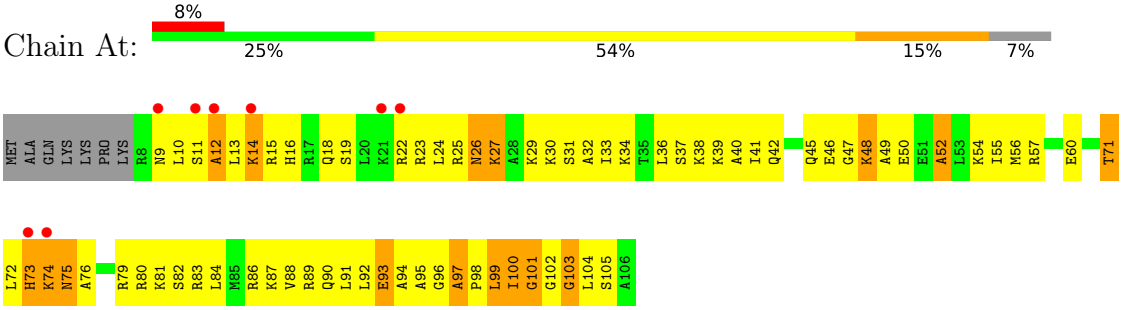
• Molecule 18: 30S ribosomal protein S19

Chain Bs:



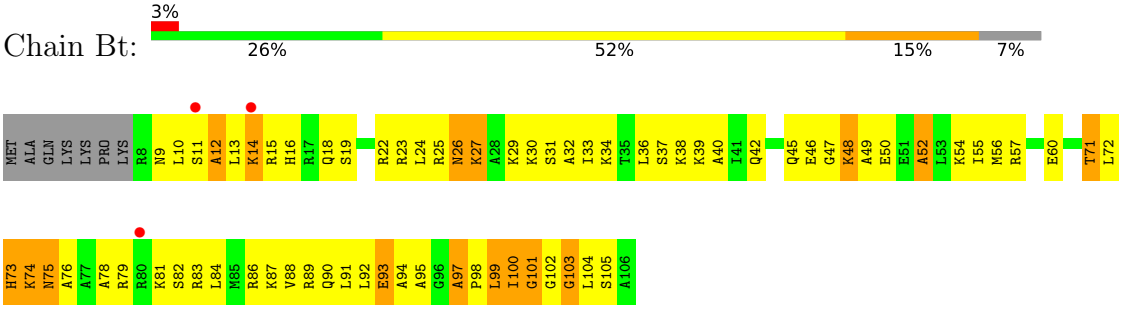
• Molecule 19: 30S ribosomal protein S20

Chain At:



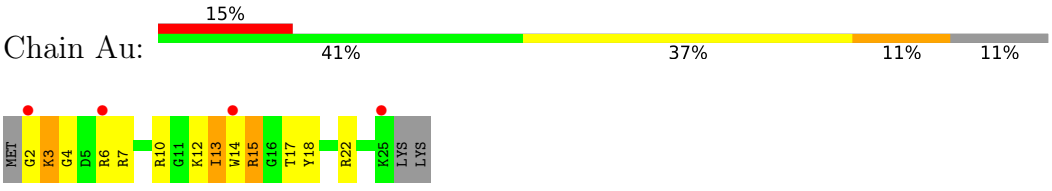
• Molecule 19: 30S ribosomal protein S20

Chain Bt:



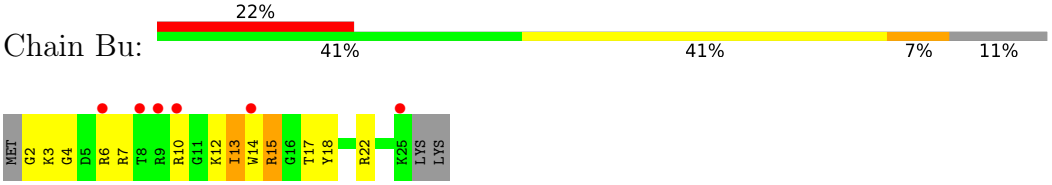
• Molecule 20: 30S ribosomal protein Thx

Chain Au:



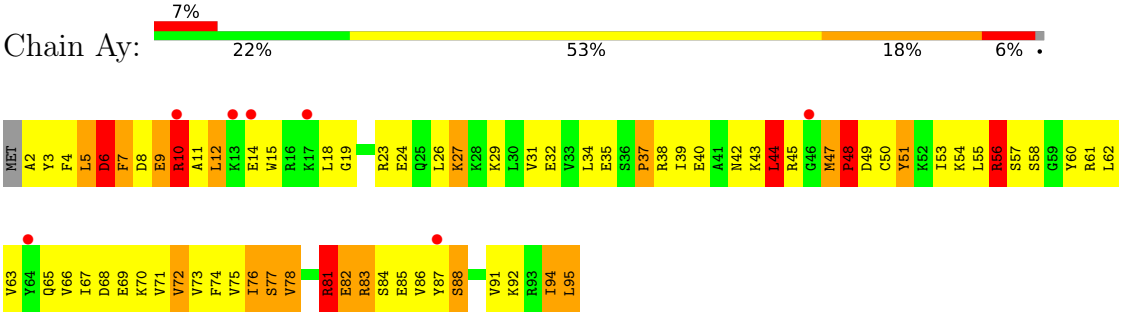
• Molecule 20: 30S ribosomal protein Thx

Chain Bu:



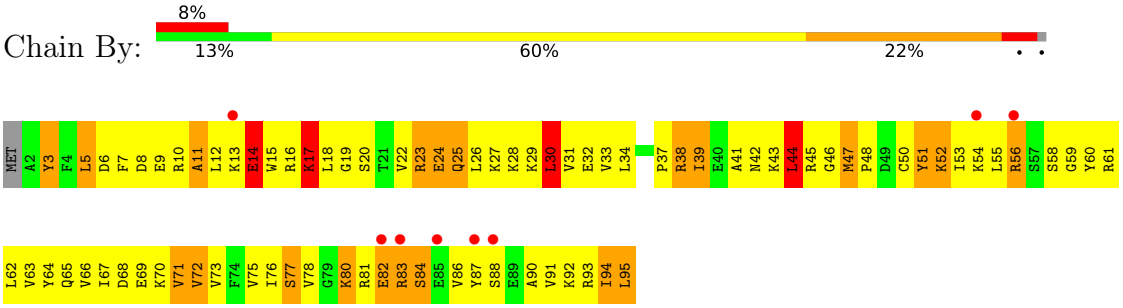
• Molecule 21: Toxin relE

Chain Ay:



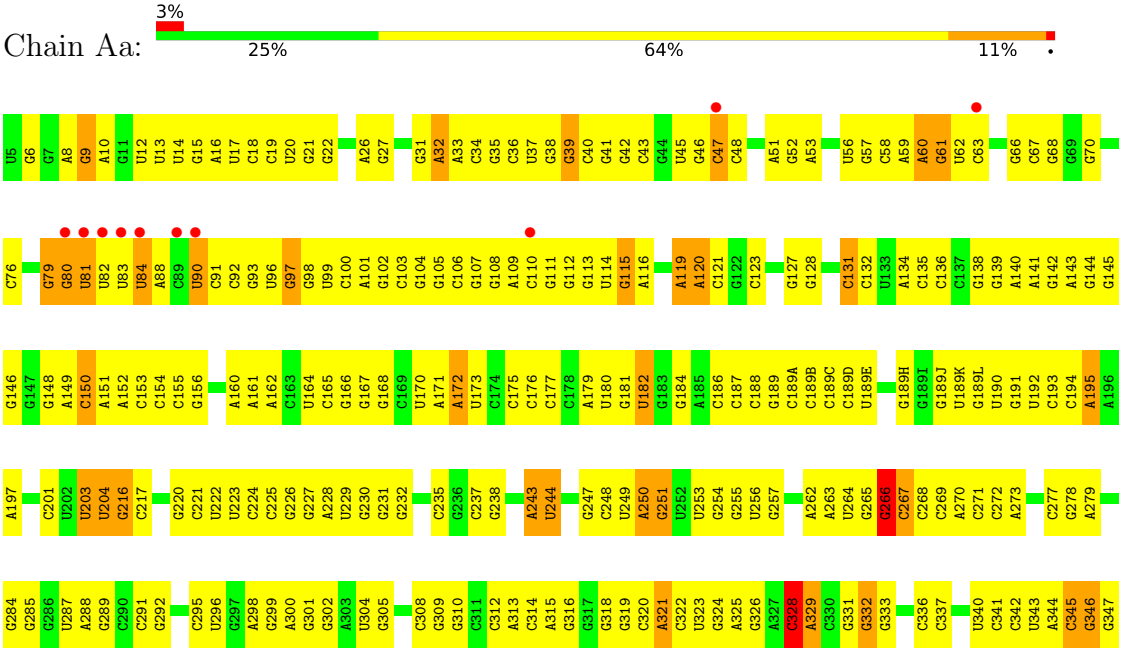
• Molecule 21: Toxin relE

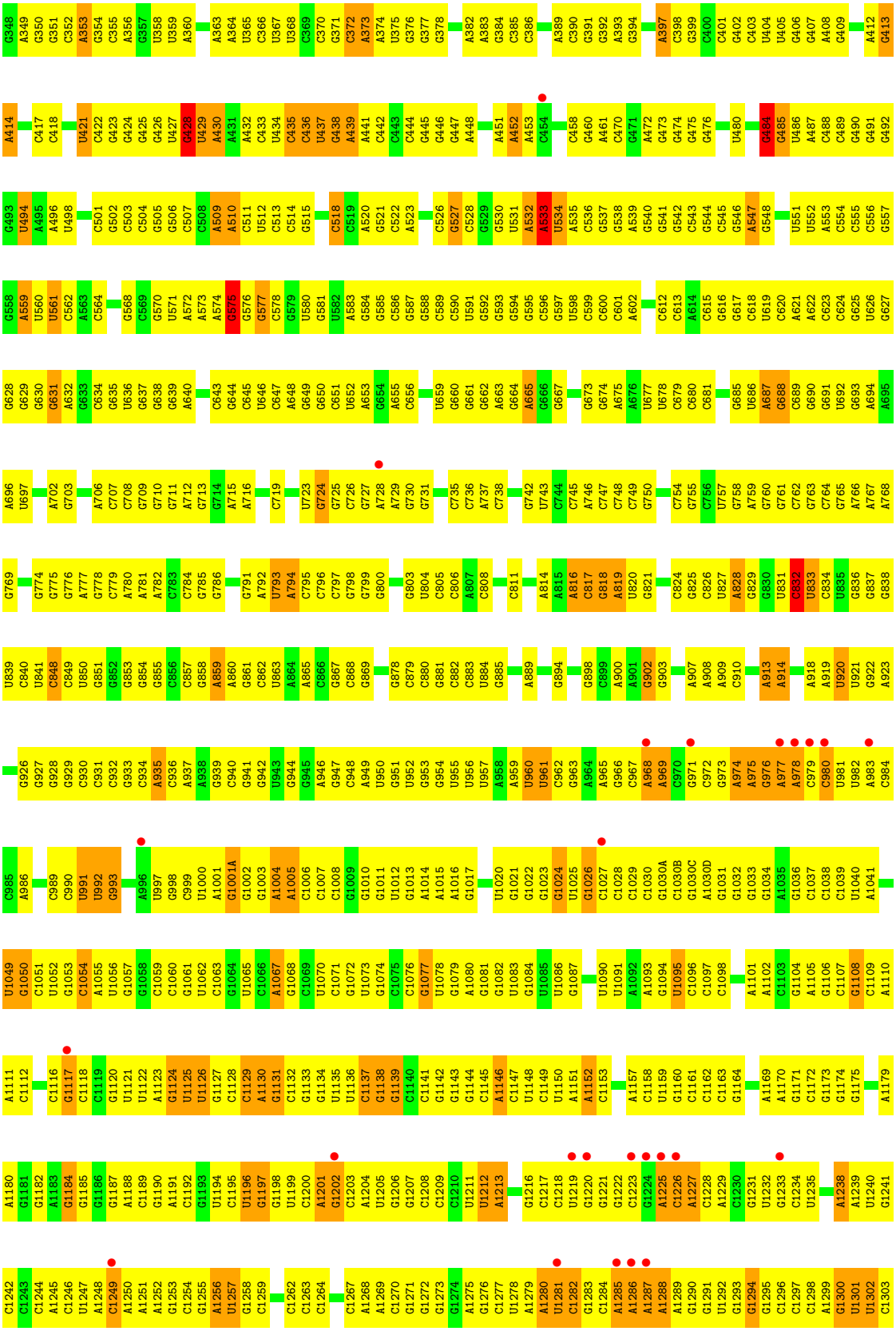
Chain By:

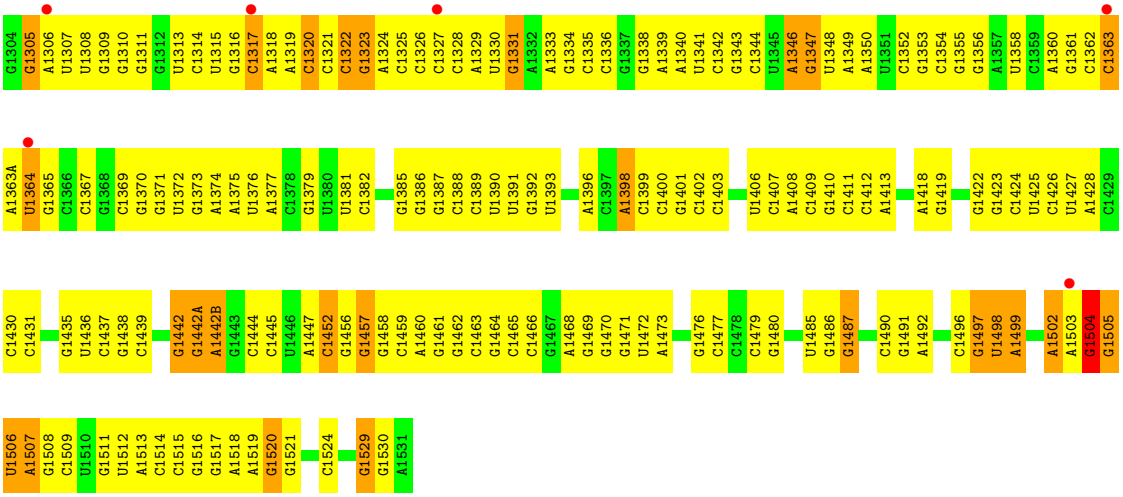


• Molecule 22: RNA (1504-MER)

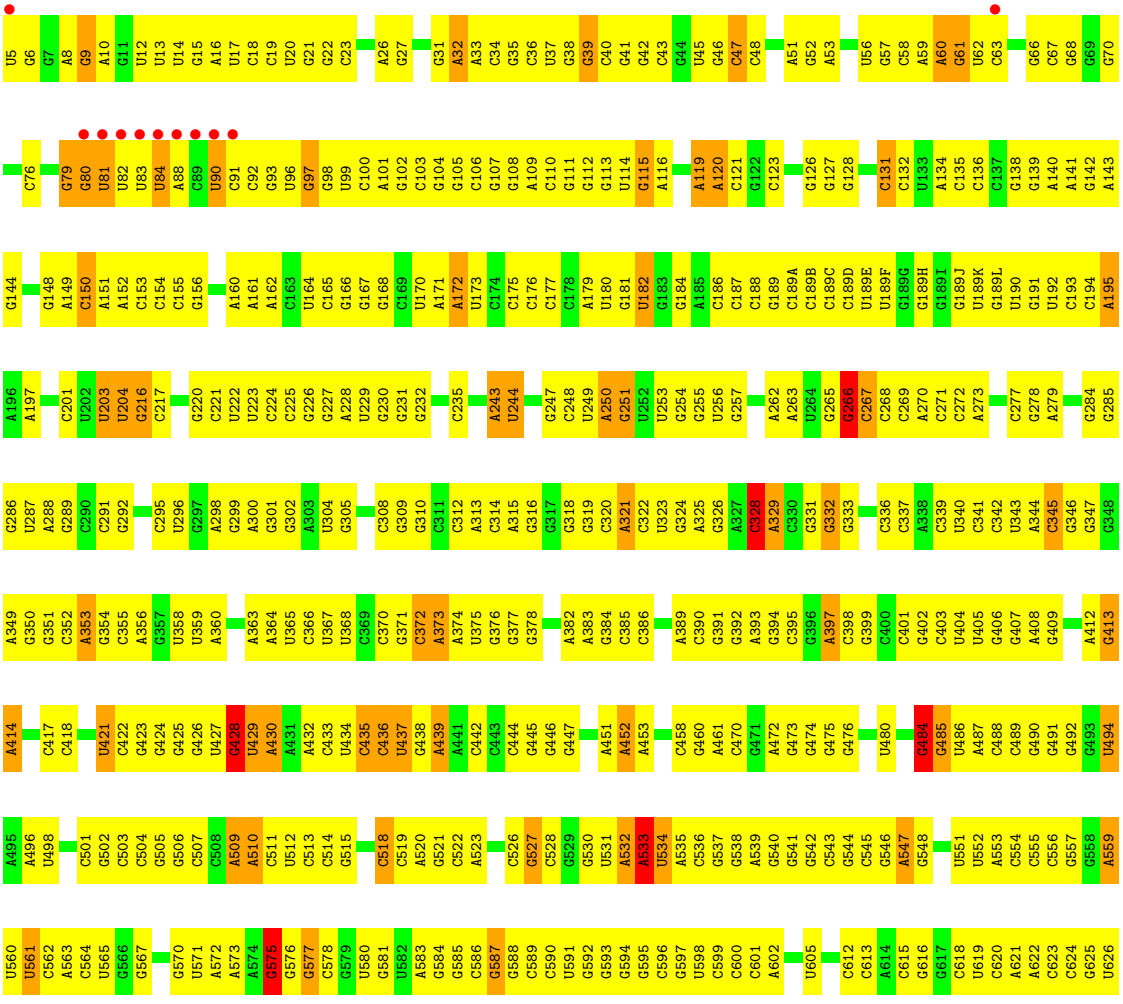
Chain Aa:

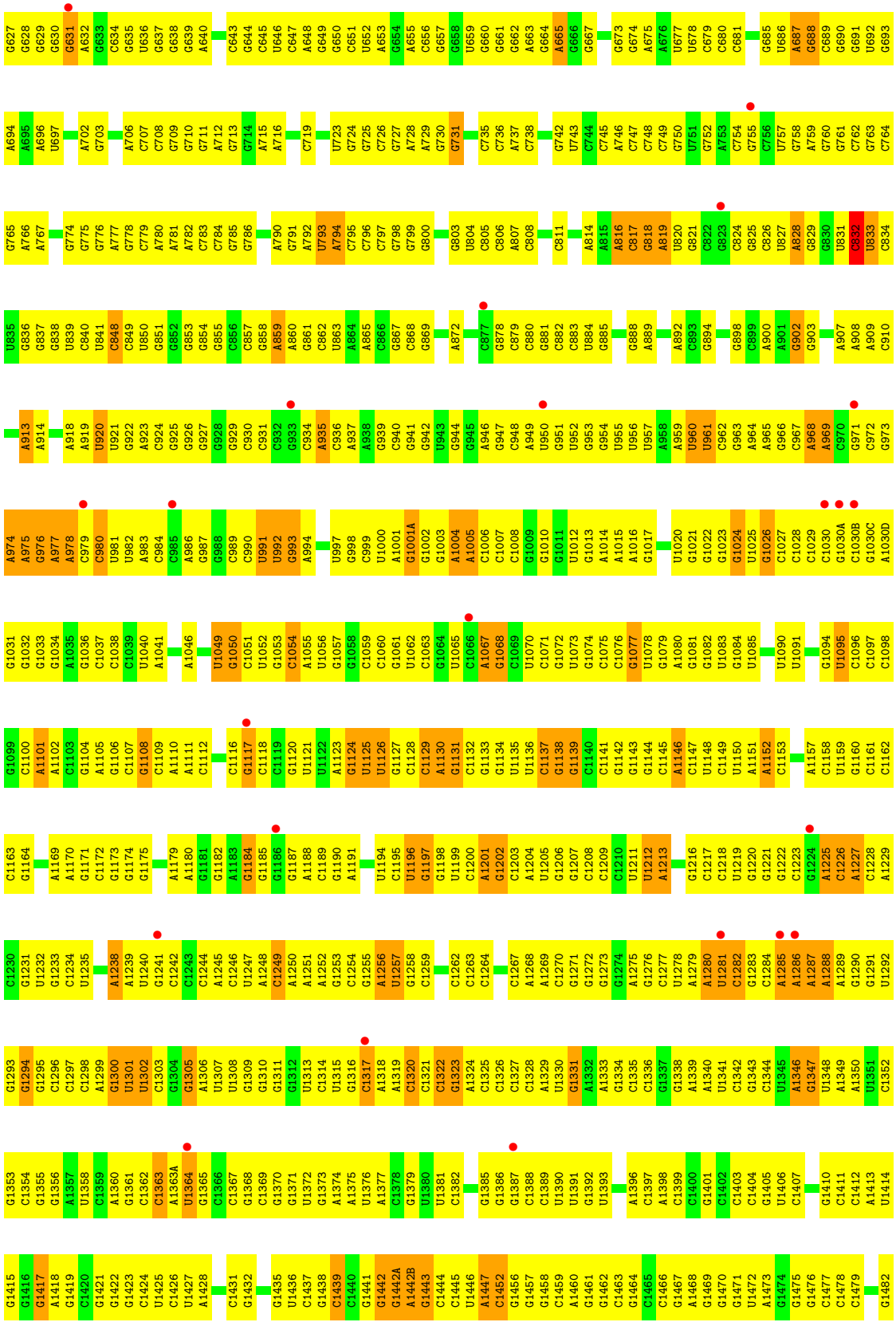


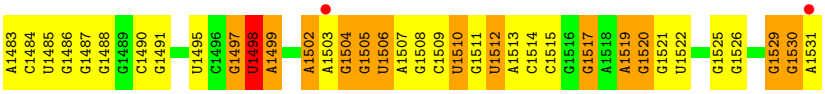




• Molecule 22: RNA (1504-MER)





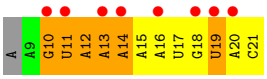


• Molecule 23: RNA (5'-R(*A*AP*GP*UP*AP*AP*AP*AP*AP*UP*GP*UP*A*(CCC))-3')

Chain Ax:

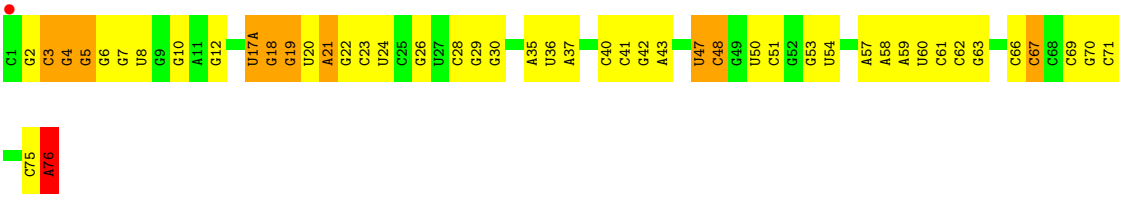
• Molecule 23: RNA (5'-R(*A*AP*GP*UP*AP*AP*AP*AP*AP*UP*GP*UP*A*(CCC))-3')

Chain Bx:



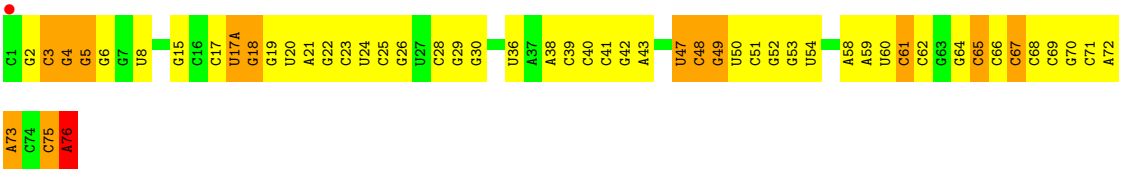
• Molecule 24: RNA (77-MER)

Chain Av:



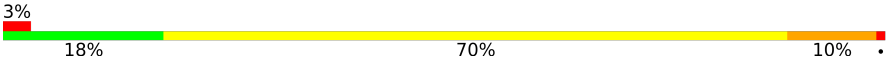
• Molecule 24: RNA (77-MER)

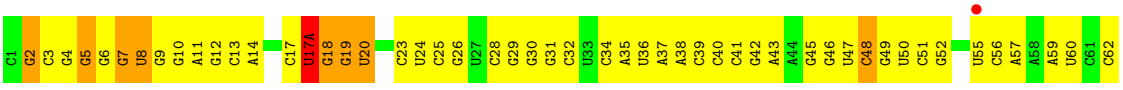
Chain Bv:

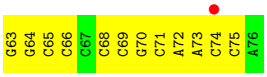


• Molecule 25: RNA (77-MER)

Chain Aw:

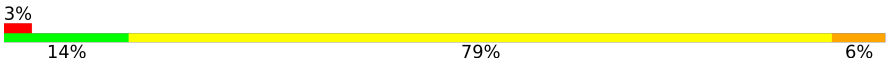


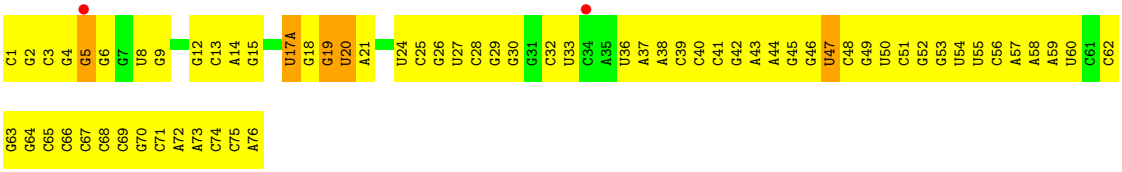




• Molecule 25: RNA (77-MER)

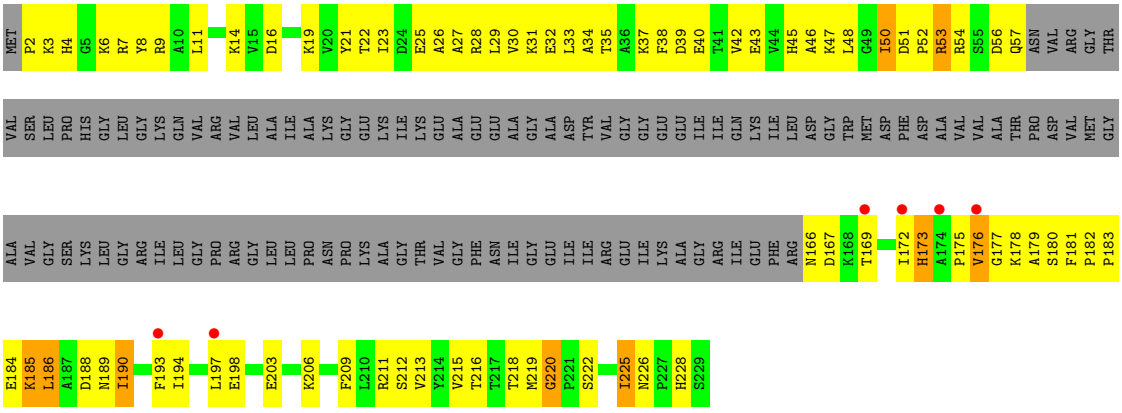
Chain Bw:





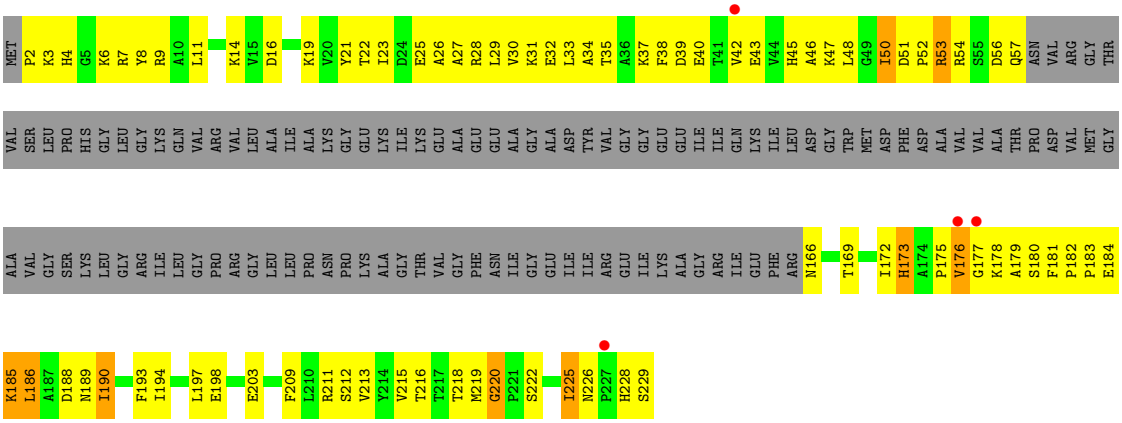
• Molecule 26: 50S ribosomal protein L1

Chain AC:



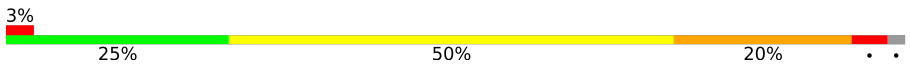
• Molecule 26: 50S ribosomal protein L1

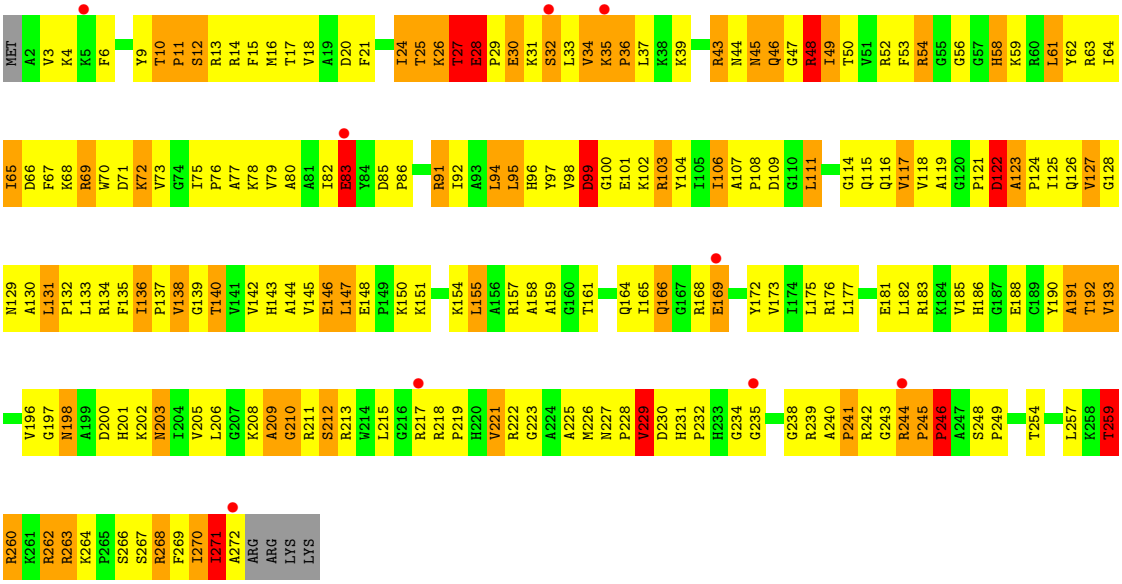
Chain BC:



• Molecule 27: 50S ribosomal protein L2

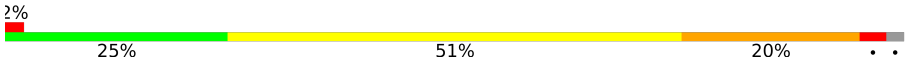
Chain AD:

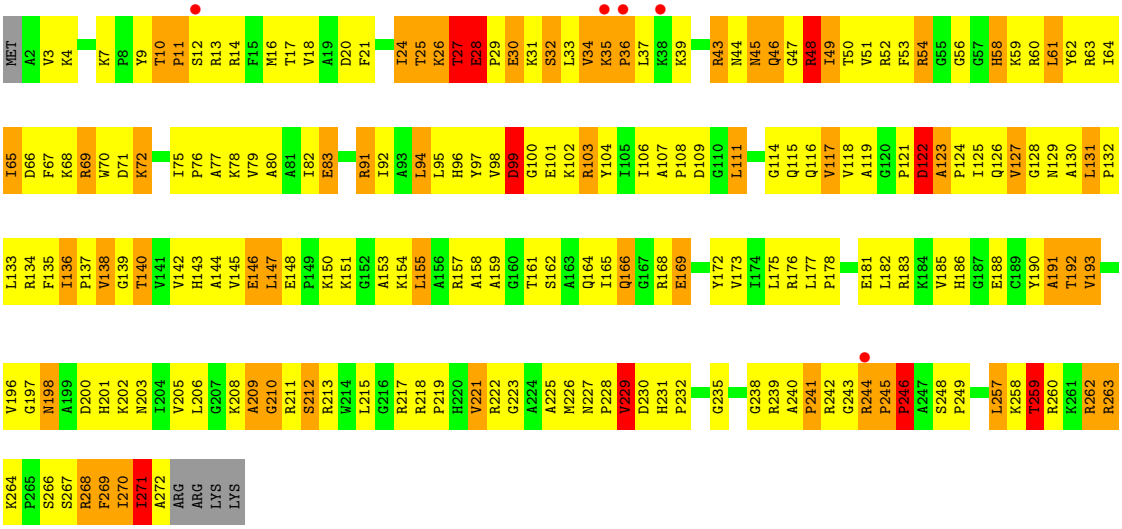




• Molecule 27: 50S ribosomal protein L2

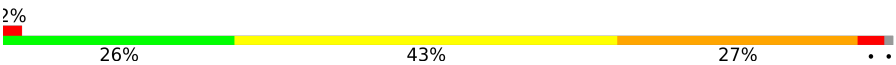
Chain BD:

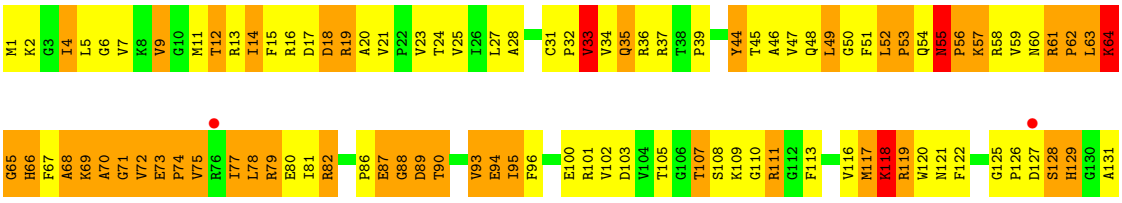


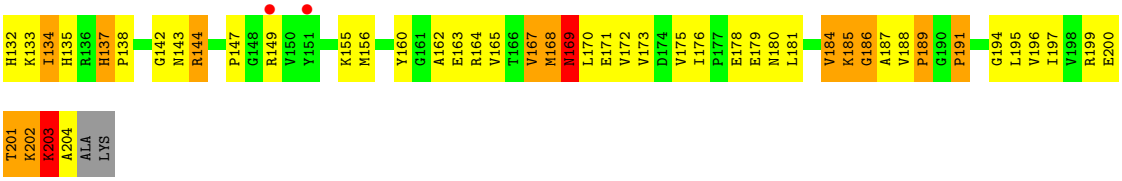


• Molecule 28: 50S ribosomal protein L3

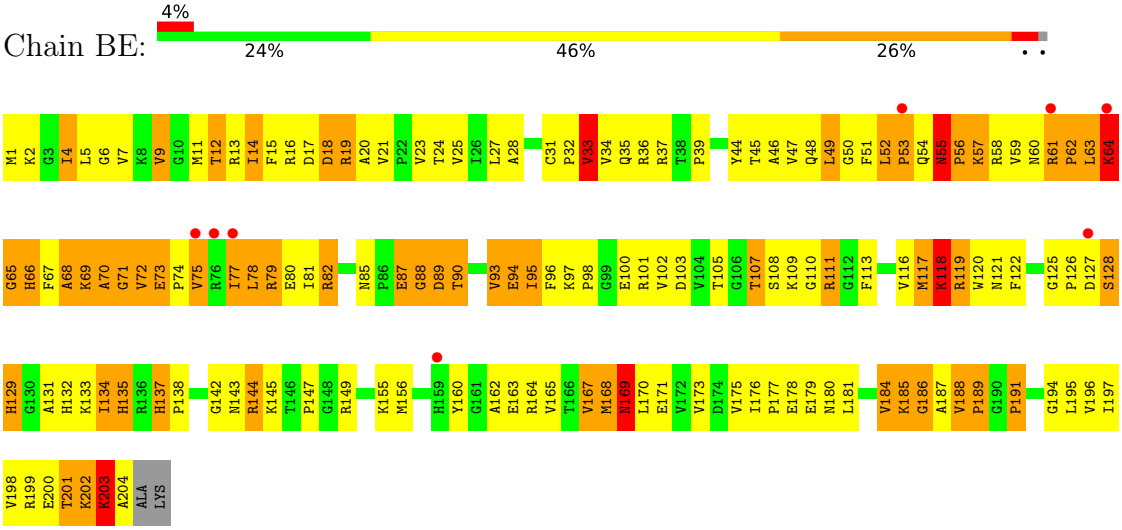
Chain AE:



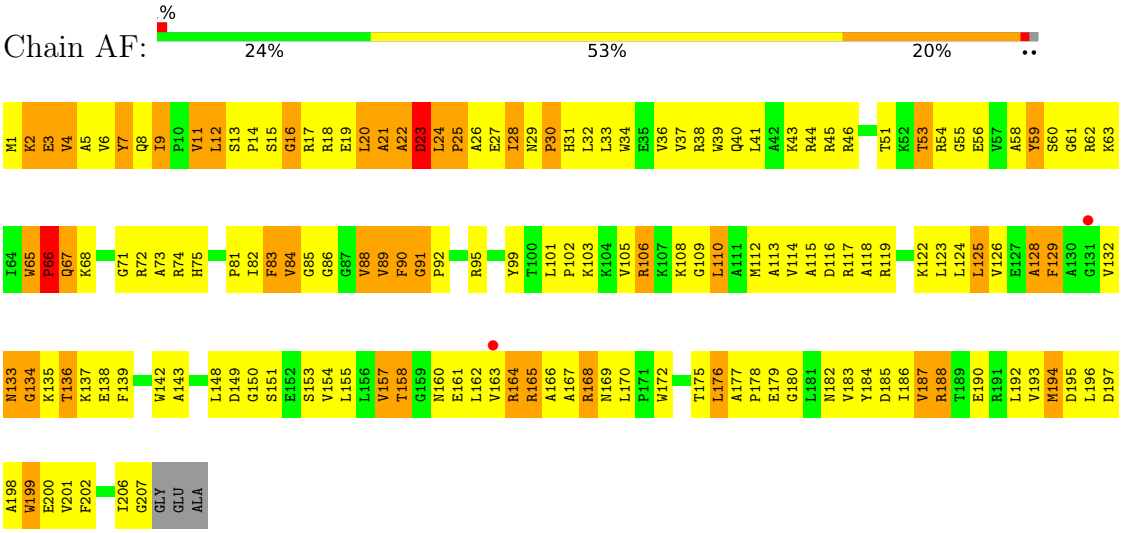




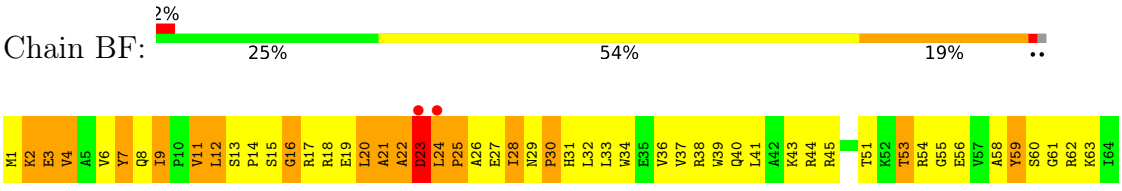
• Molecule 28: 50S ribosomal protein L3

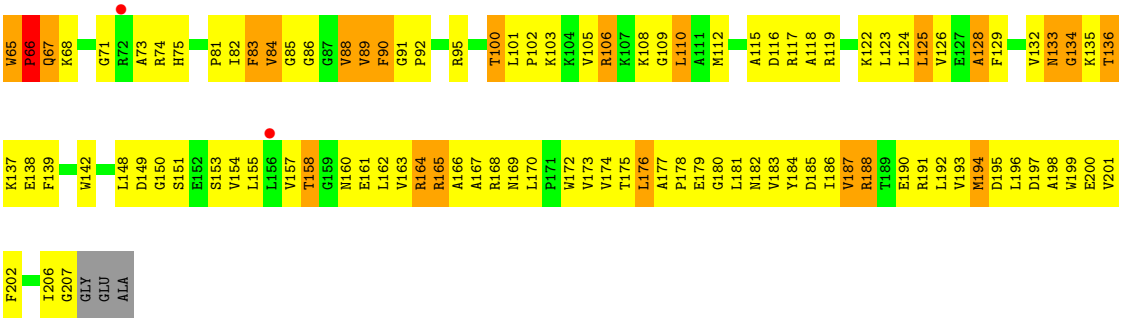


• Molecule 29: 50S ribosomal protein L4

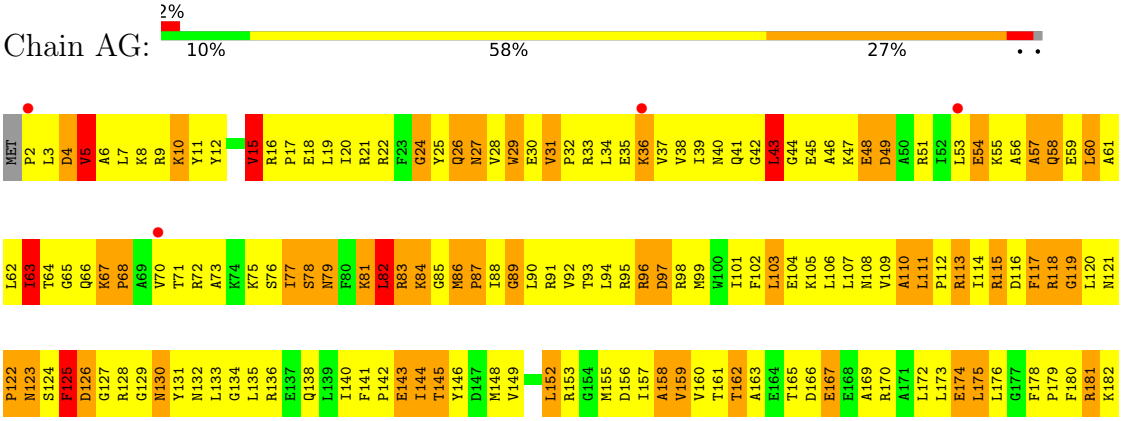


• Molecule 29: 50S ribosomal protein L4

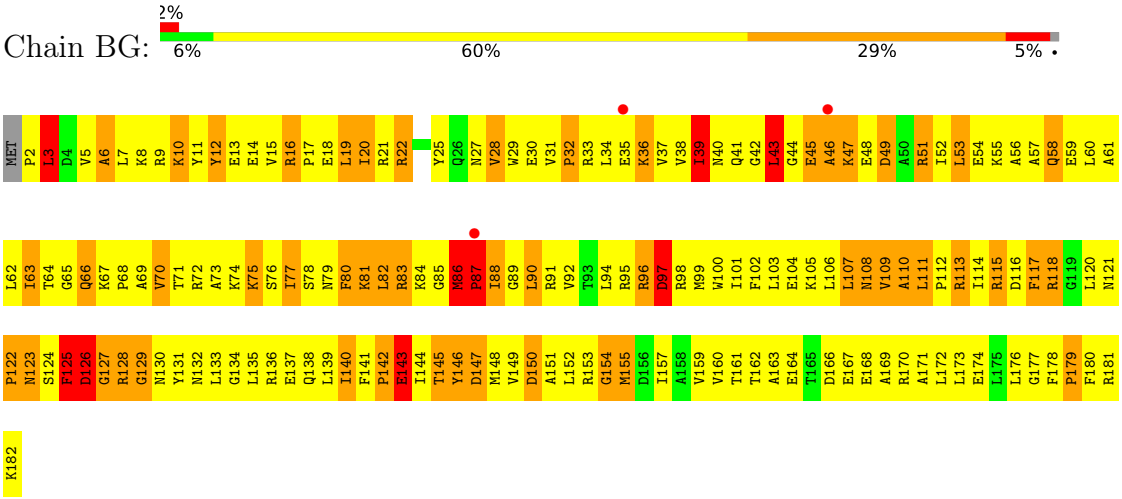




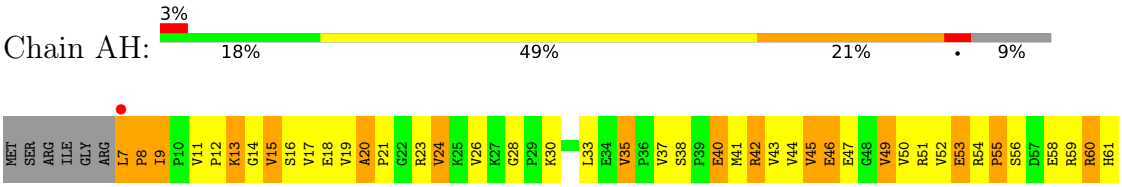
• Molecule 30: 50S ribosomal protein L5

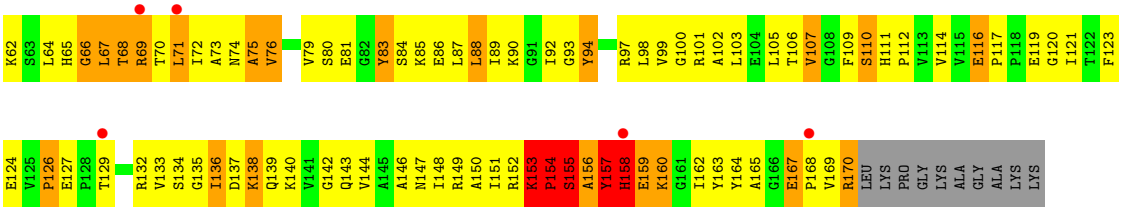


• Molecule 30: 50S ribosomal protein L5



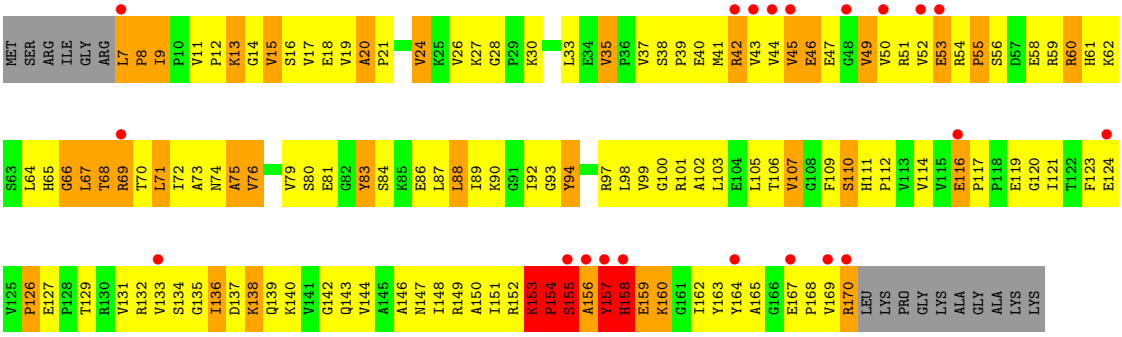
• Molecule 31: 50S ribosomal protein L6





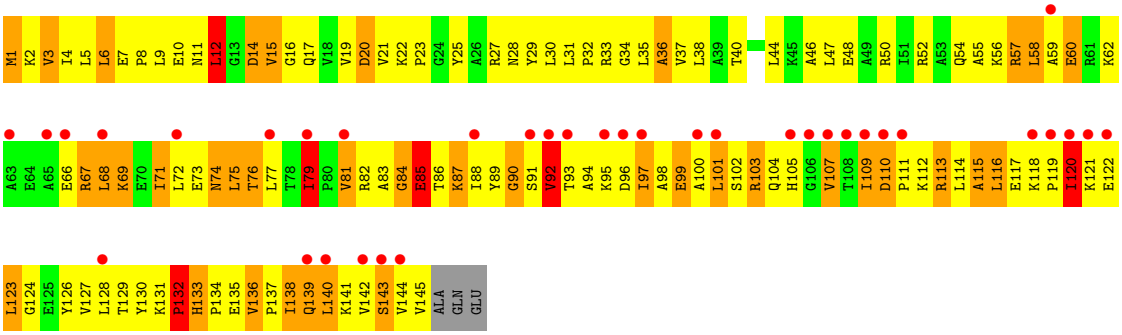
• Molecule 31: 50S ribosomal protein L6

Chain BH:



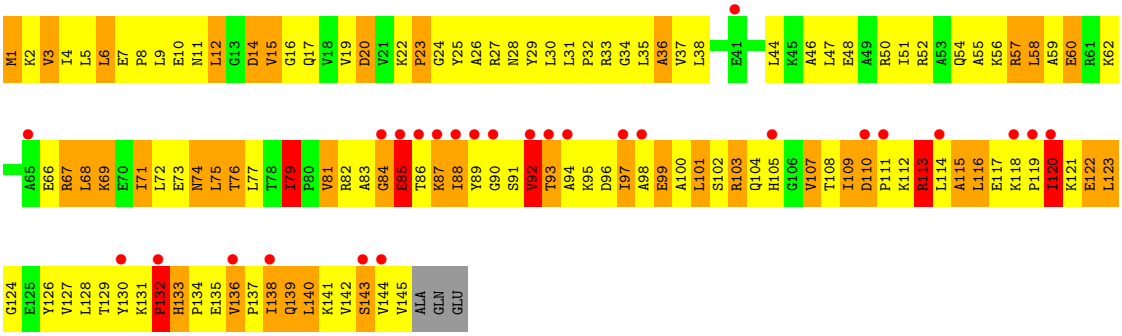
• Molecule 32: 50S ribosomal protein L9

Chain AI:



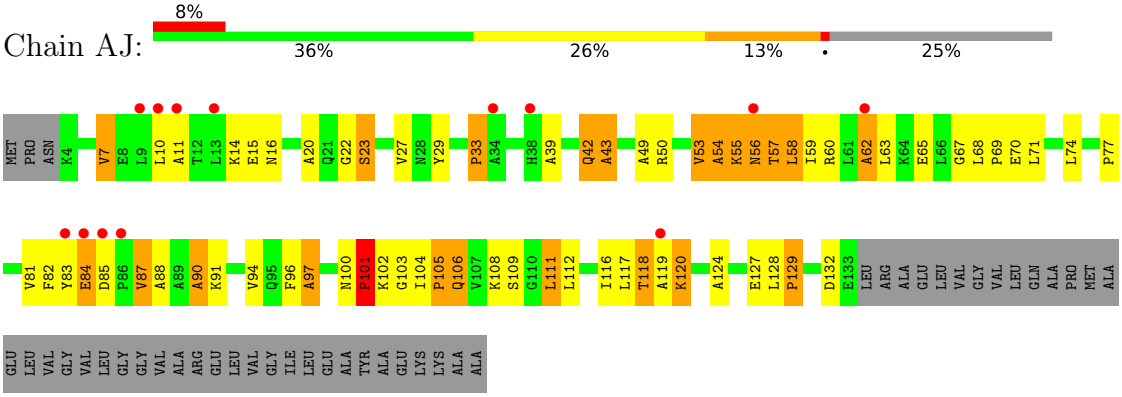
• Molecule 32: 50S ribosomal protein L9

Chain BI:



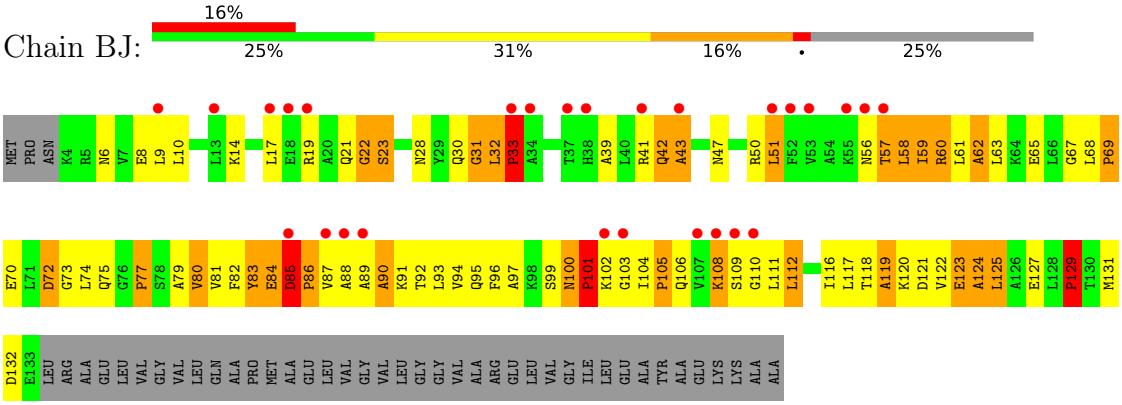
• Molecule 33: 50S ribosomal protein L10

Chain AJ:



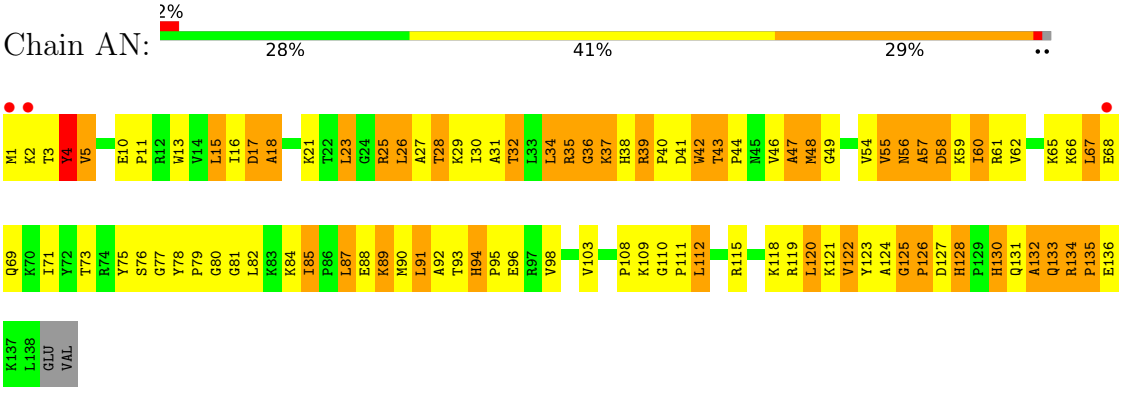
• Molecule 33: 50S ribosomal protein L10

Chain BJ:



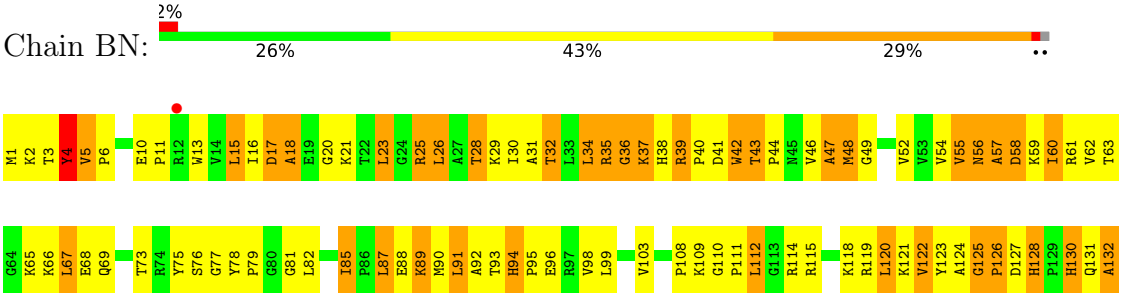
• Molecule 34: 50S ribosomal protein L13

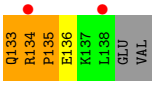
Chain AN:



• Molecule 34: 50S ribosomal protein L13

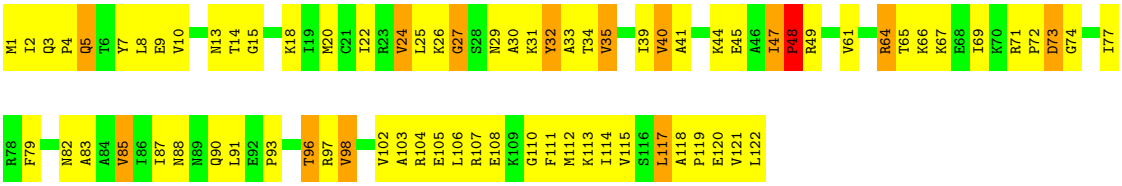
Chain BN:





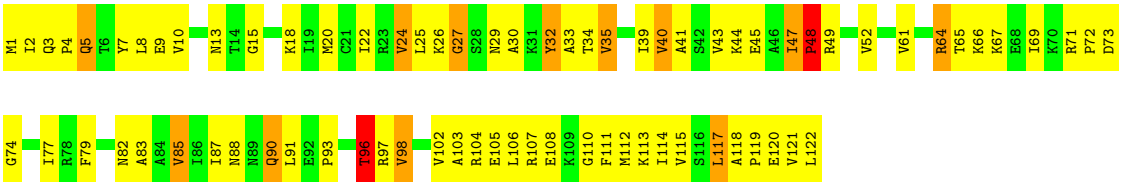
• Molecule 35: 50S ribosomal protein L14

Chain AO:



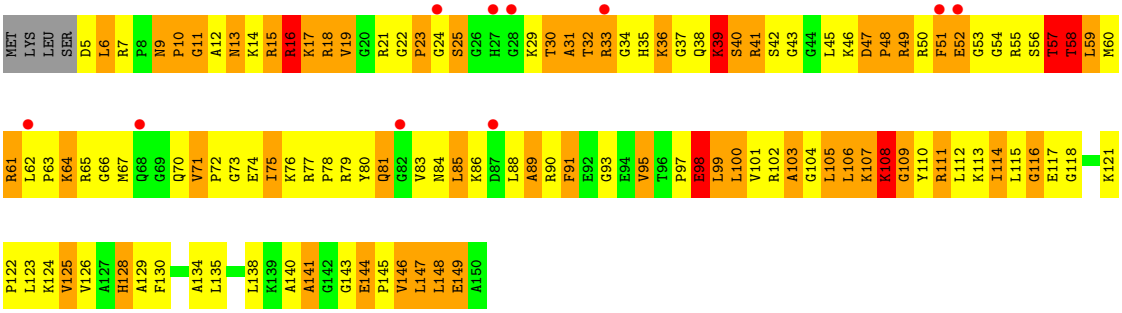
• Molecule 35: 50S ribosomal protein L14

Chain BO:



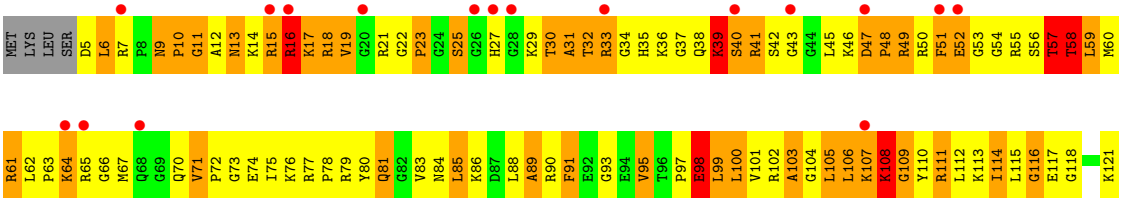
• Molecule 36: 50S ribosomal protein L15

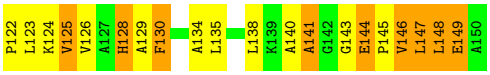
Chain AP:



• Molecule 36: 50S ribosomal protein L15

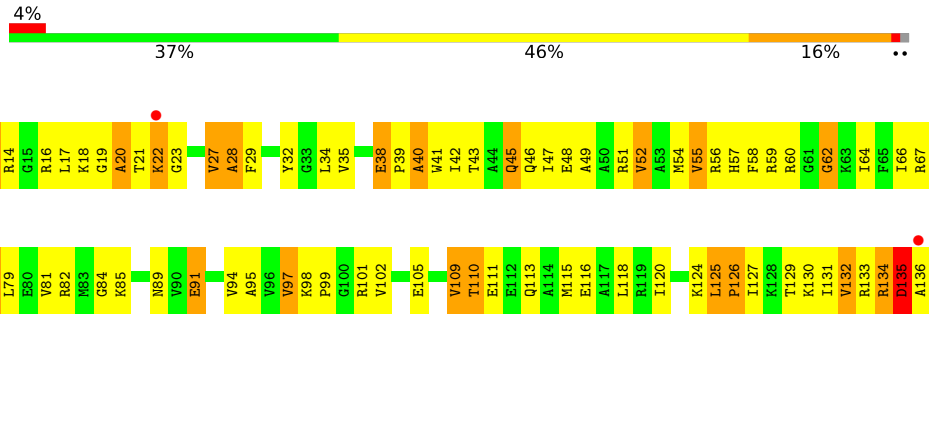
Chain BP:





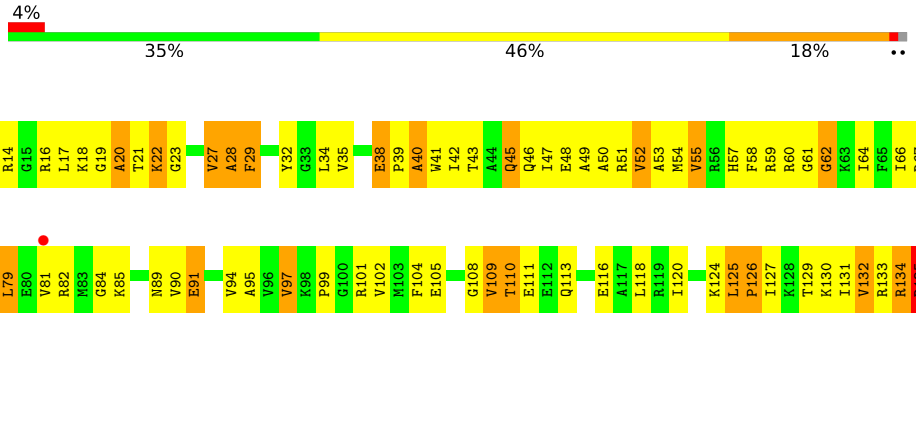
• Molecule 37: 50S ribosomal protein L16

Chain AQ:



• Molecule 37: 50S ribosomal protein L16

Chain BQ:

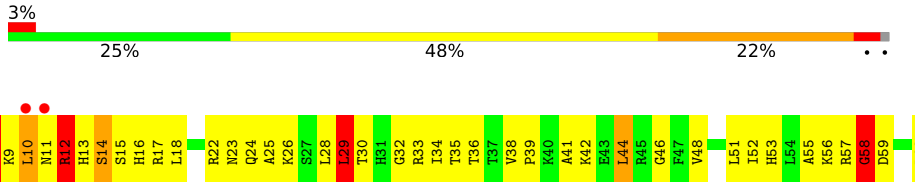


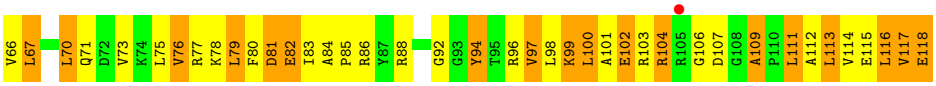
• Molecule 38: 50S ribosomal protein L17

Chain AR:

• Molecule 38: 50S ribosomal protein L17

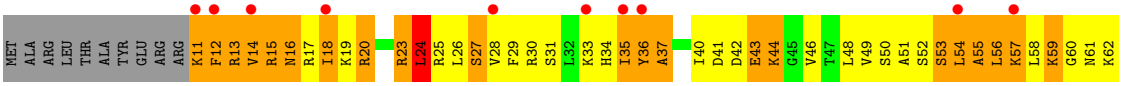
Chain BR:





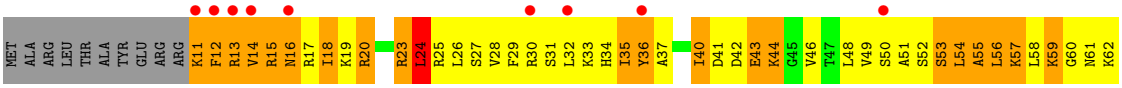
• Molecule 39: 50S ribosomal protein L18

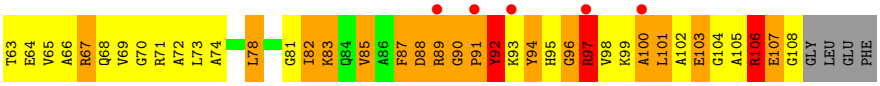
Chain AS:



• Molecule 39: 50S ribosomal protein L18

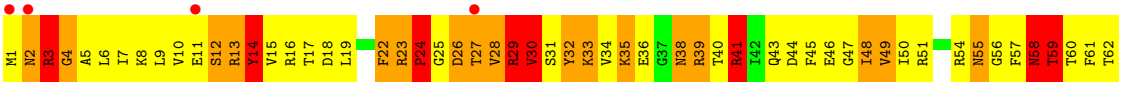
Chain BS:

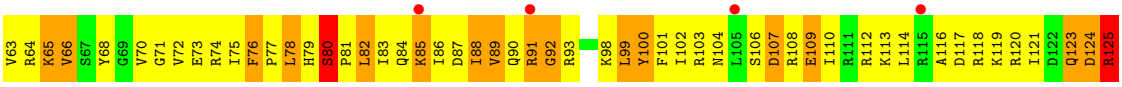


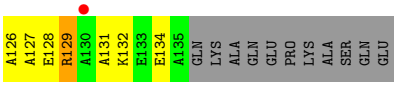


• Molecule 40: 50S ribosomal protein L19

Chain AT:

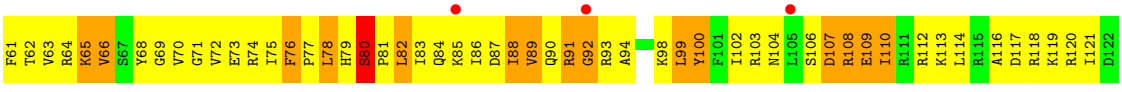


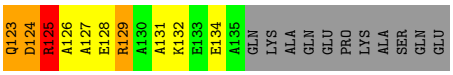




• Molecule 40: 50S ribosomal protein L19

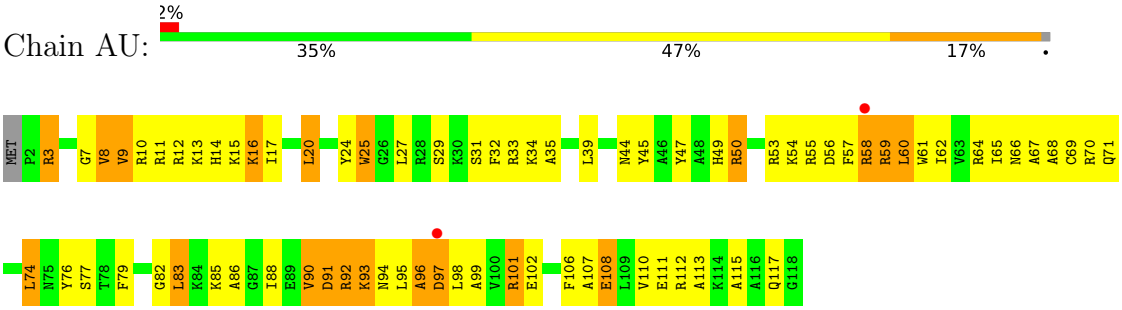
Chain BT:





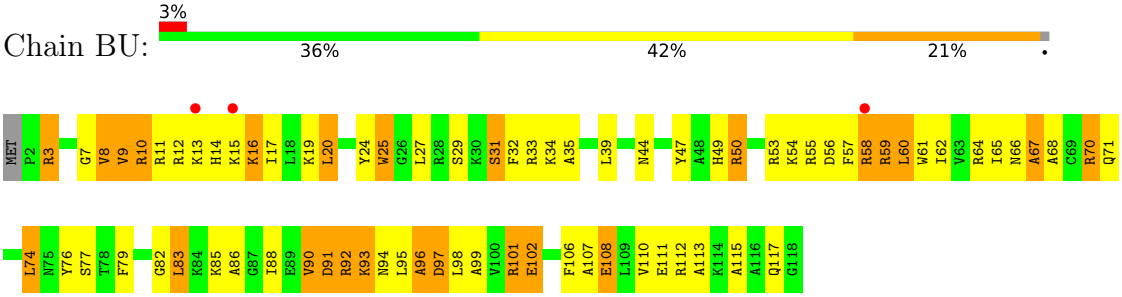
• Molecule 41: 50S ribosomal protein L20

Chain AU:



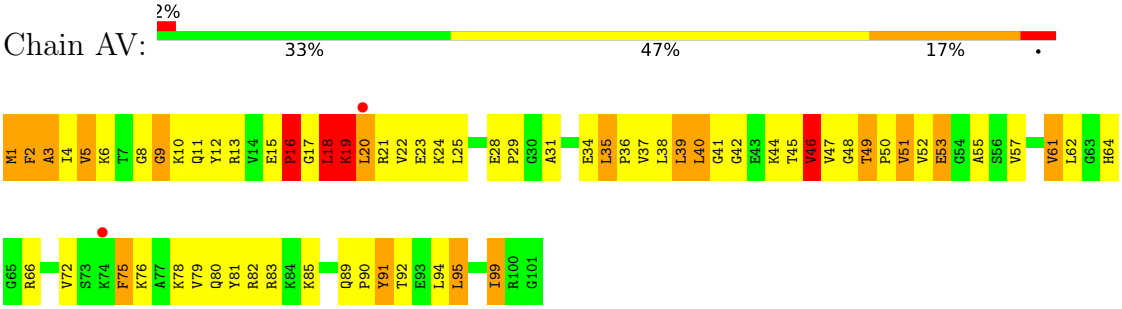
• Molecule 41: 50S ribosomal protein L20

Chain BU:



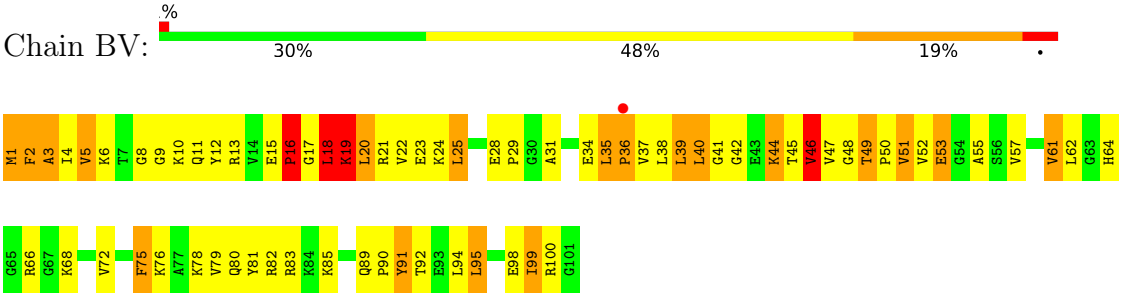
• Molecule 42: 50S ribosomal protein L21

Chain AV:



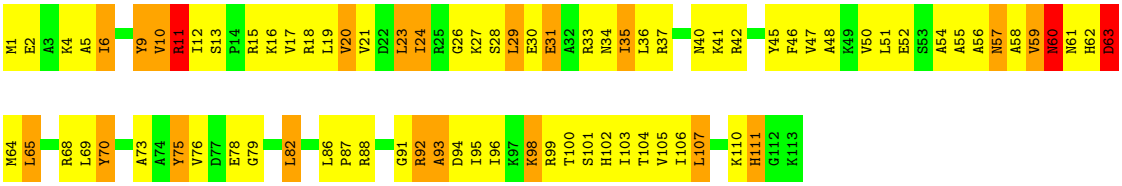
• Molecule 42: 50S ribosomal protein L21

Chain BV:



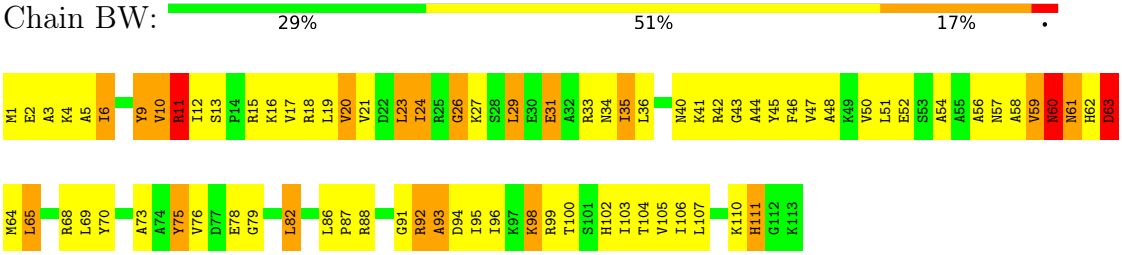
• Molecule 43: 50S ribosomal protein L22

Chain AW:



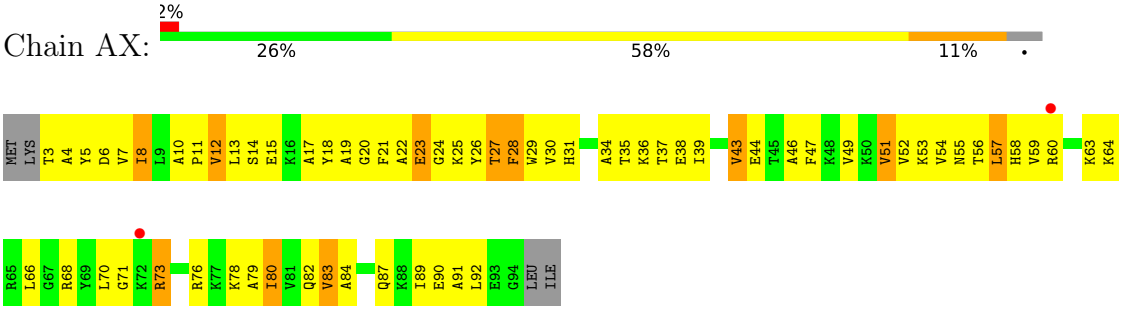
• Molecule 43: 50S ribosomal protein L22

Chain BW:



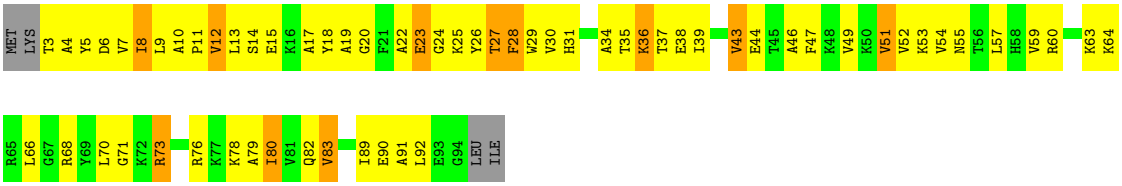
• Molecule 44: 50S ribosomal protein L23

Chain AX:



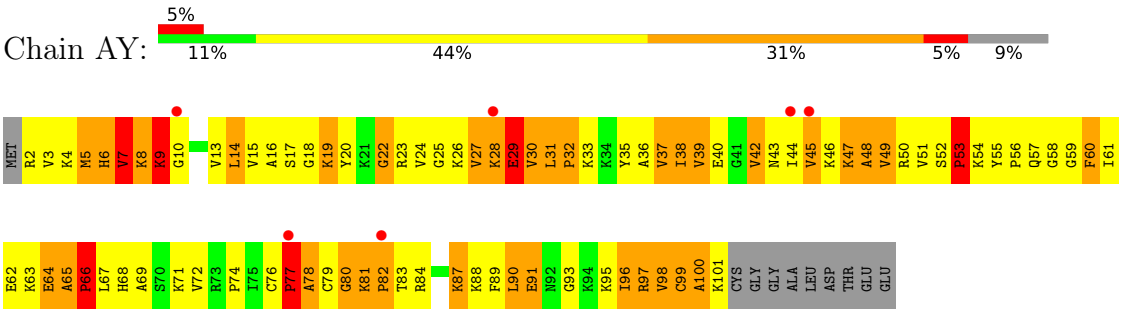
• Molecule 44: 50S ribosomal protein L23

Chain BX:



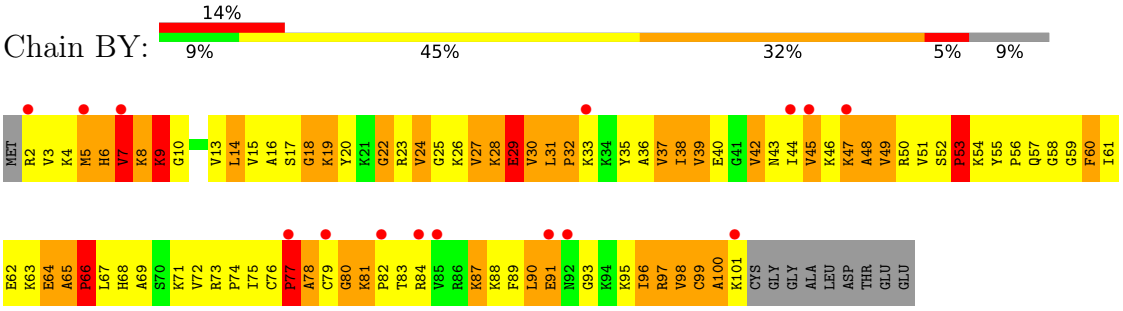
• Molecule 45: 50S ribosomal protein L24

Chain AY:



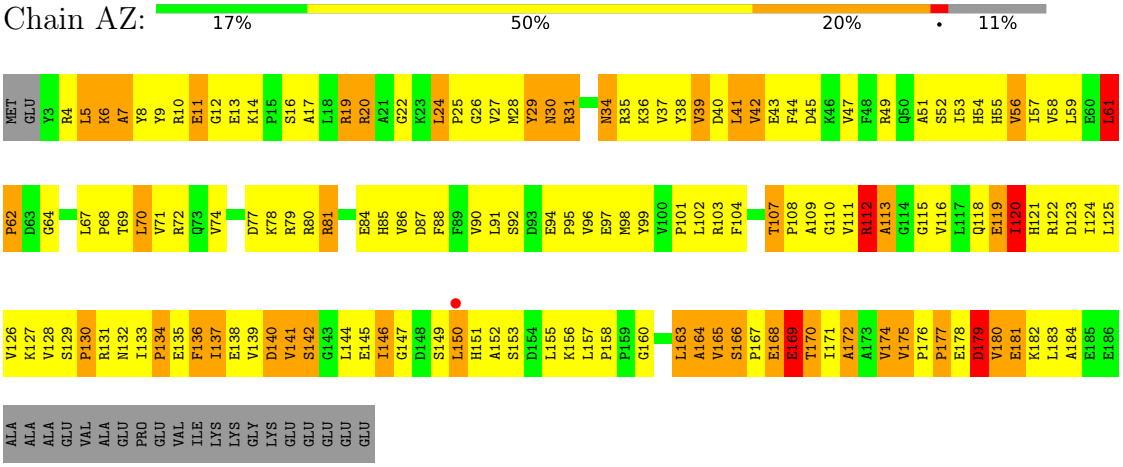
• Molecule 45: 50S ribosomal protein L24

Chain BY:



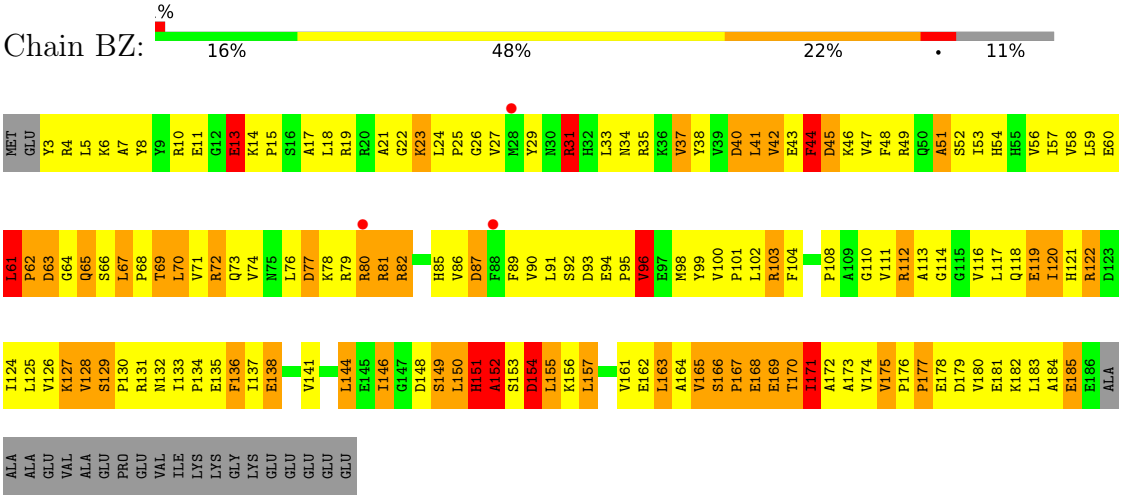
• Molecule 46: 50S ribosomal protein L25

Chain AZ:



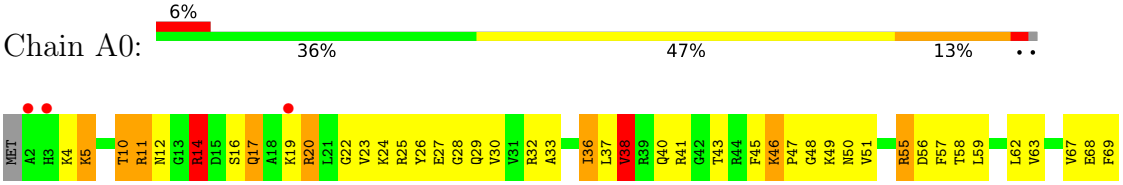
• Molecule 46: 50S ribosomal protein L25

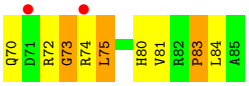
Chain BZ:



• Molecule 47: 50S ribosomal protein L27

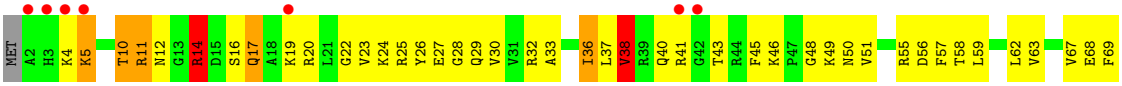
Chain A0:





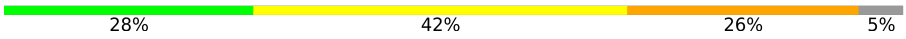
• Molecule 47: 50S ribosomal protein L27

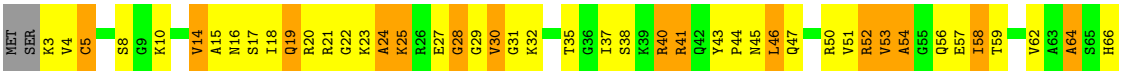
Chain B0:



• Molecule 48: 50S ribosomal protein L28

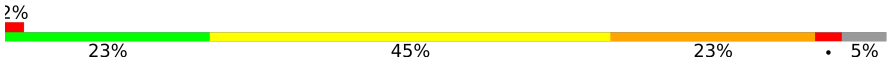
Chain A1:

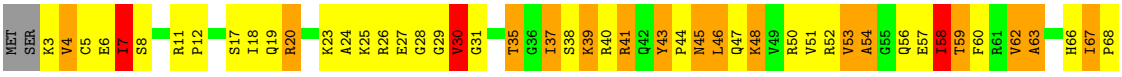


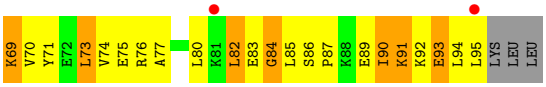


• Molecule 48: 50S ribosomal protein L28

Chain B1:

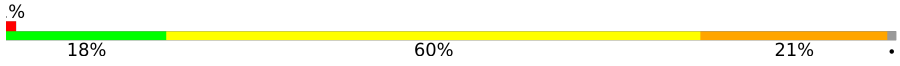


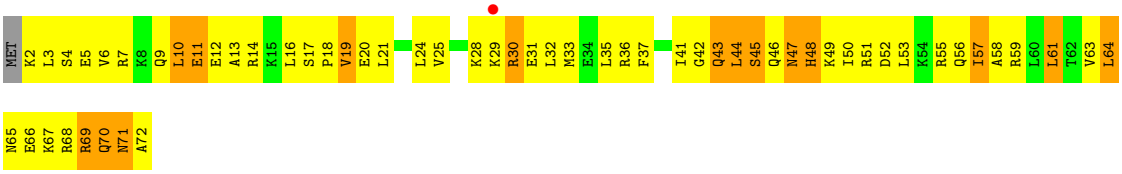




• Molecule 49: 50S ribosomal protein L29

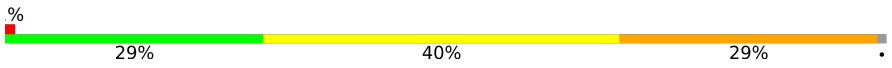
Chain A2:

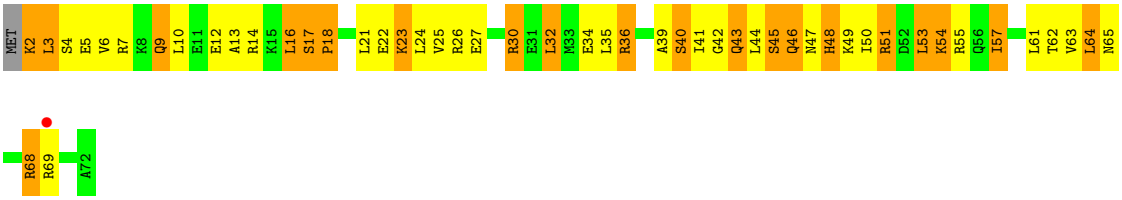




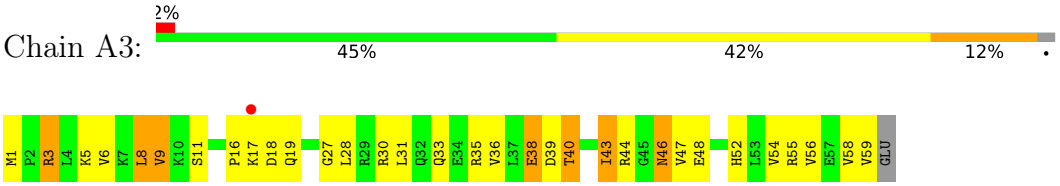
• Molecule 49: 50S ribosomal protein L29

Chain B2:

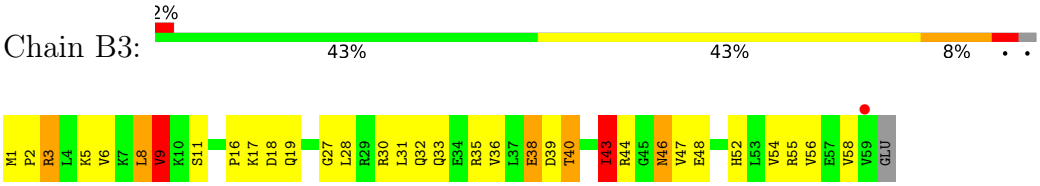




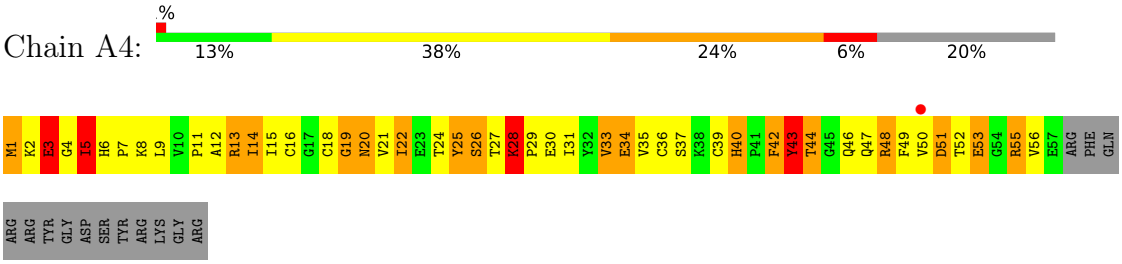
• Molecule 50: 50S ribosomal protein L30



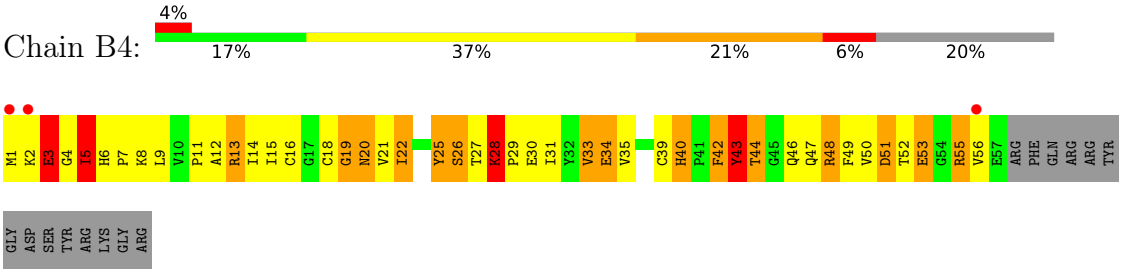
• Molecule 50: 50S ribosomal protein L30



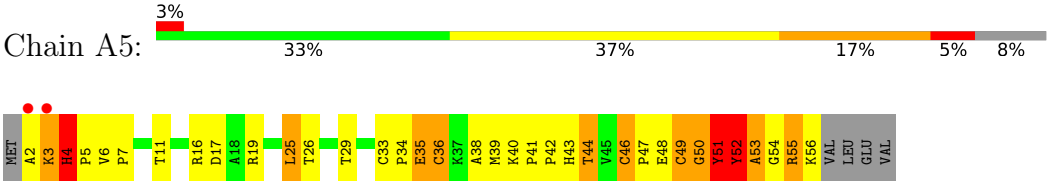
• Molecule 51: 50S ribosomal protein L31



• Molecule 51: 50S ribosomal protein L31

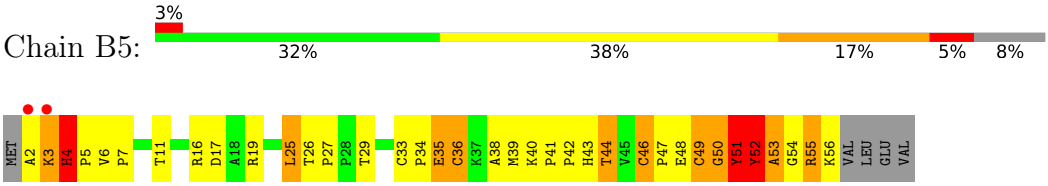


• Molecule 52: 50S ribosomal protein L32



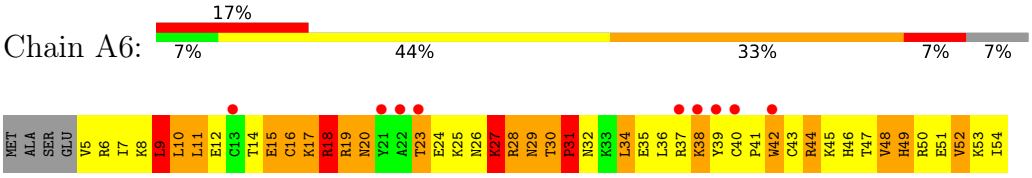
• Molecule 52: 50S ribosomal protein L32

Chain B5:



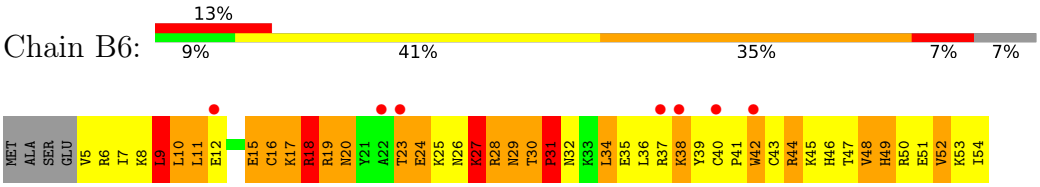
• Molecule 53: 50S ribosomal protein L33

Chain A6:



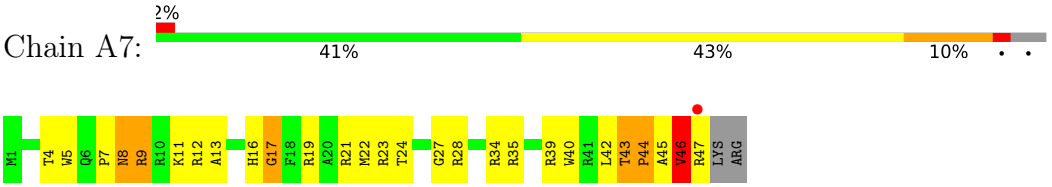
• Molecule 53: 50S ribosomal protein L33

Chain B6:



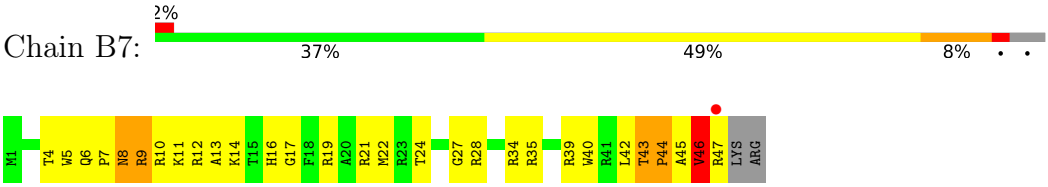
• Molecule 54: 50S ribosomal protein L34

Chain A7:



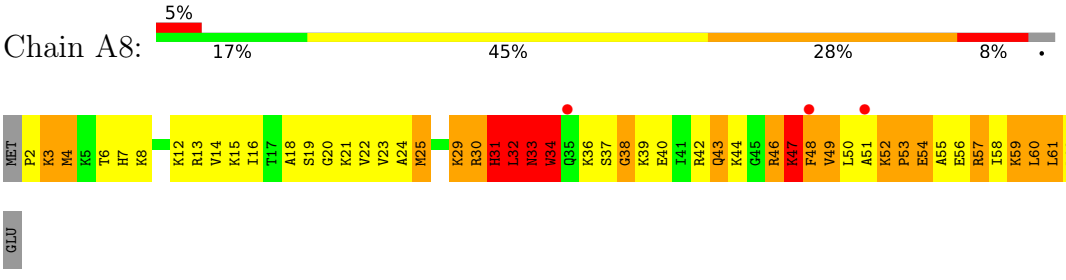
• Molecule 54: 50S ribosomal protein L34

Chain B7:



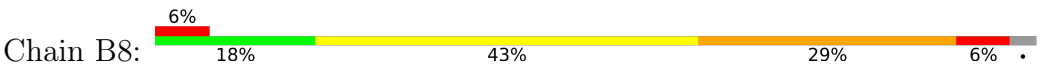
• Molecule 55: 50S ribosomal protein L35

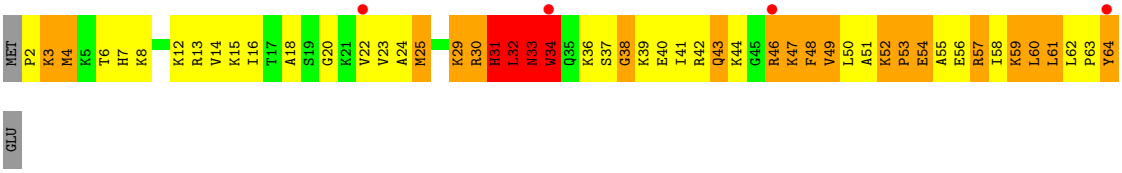
Chain A8:



• Molecule 55: 50S ribosomal protein L35

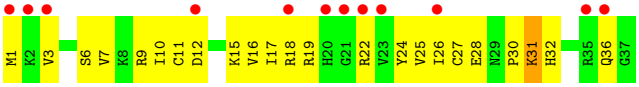
Chain B8:





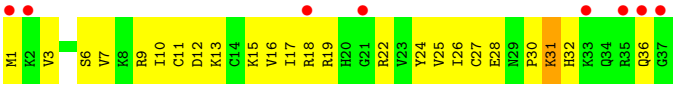
• Molecule 56: 50S ribosomal protein L36

Chain A9:



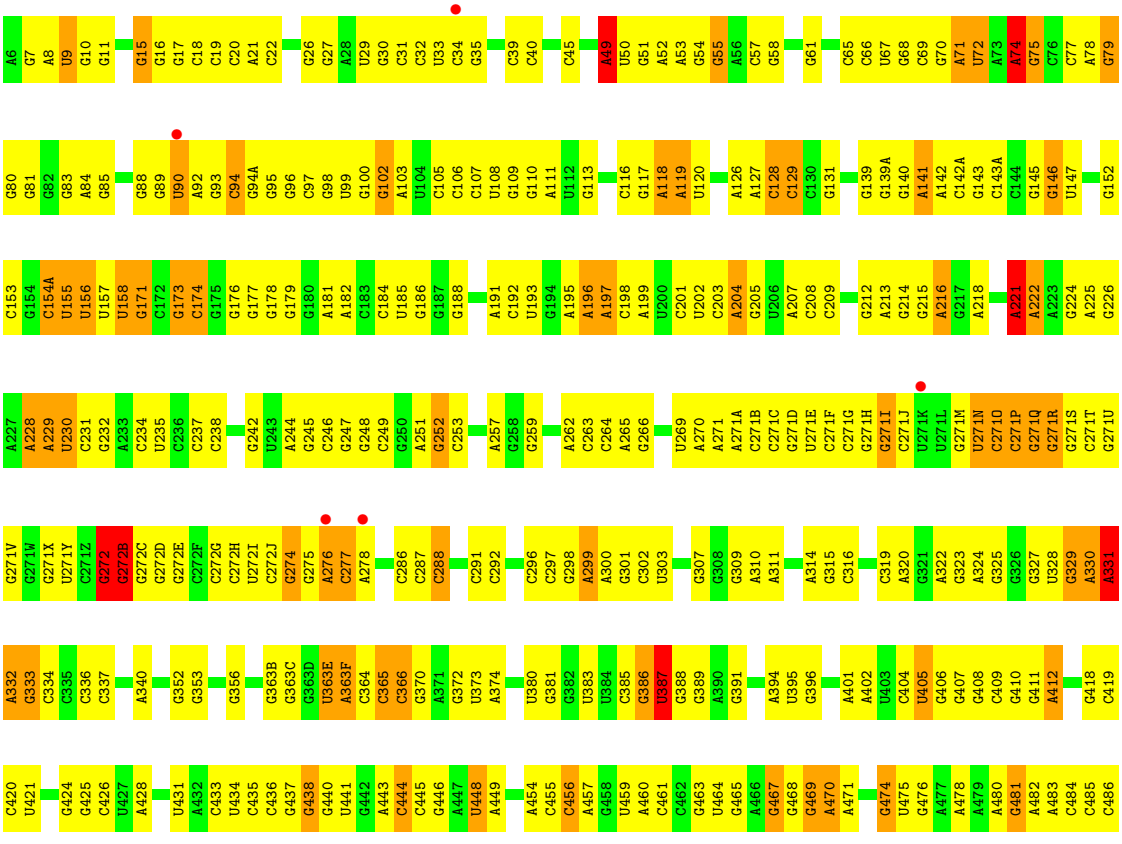
• Molecule 56: 50S ribosomal protein L36

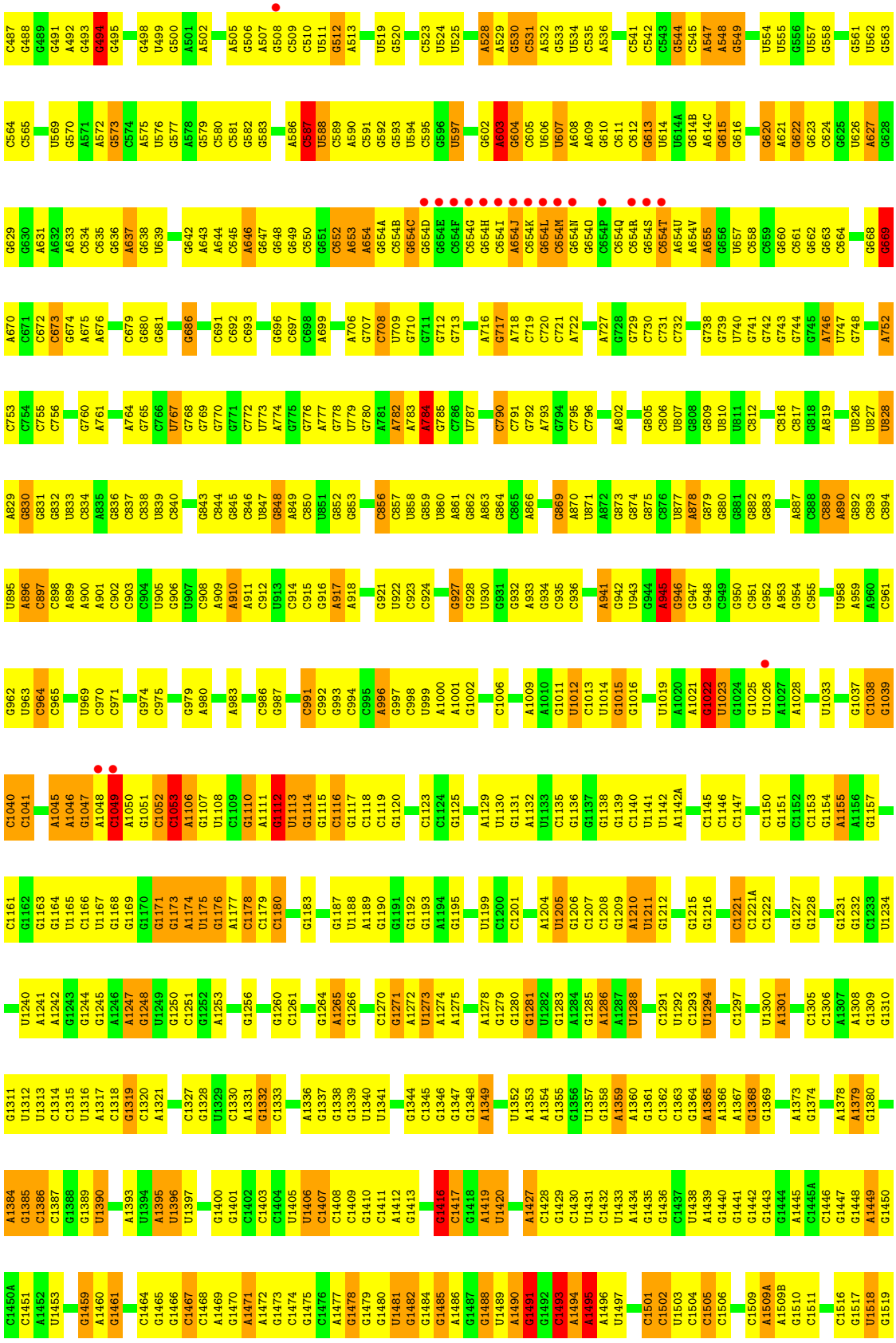
Chain B9:

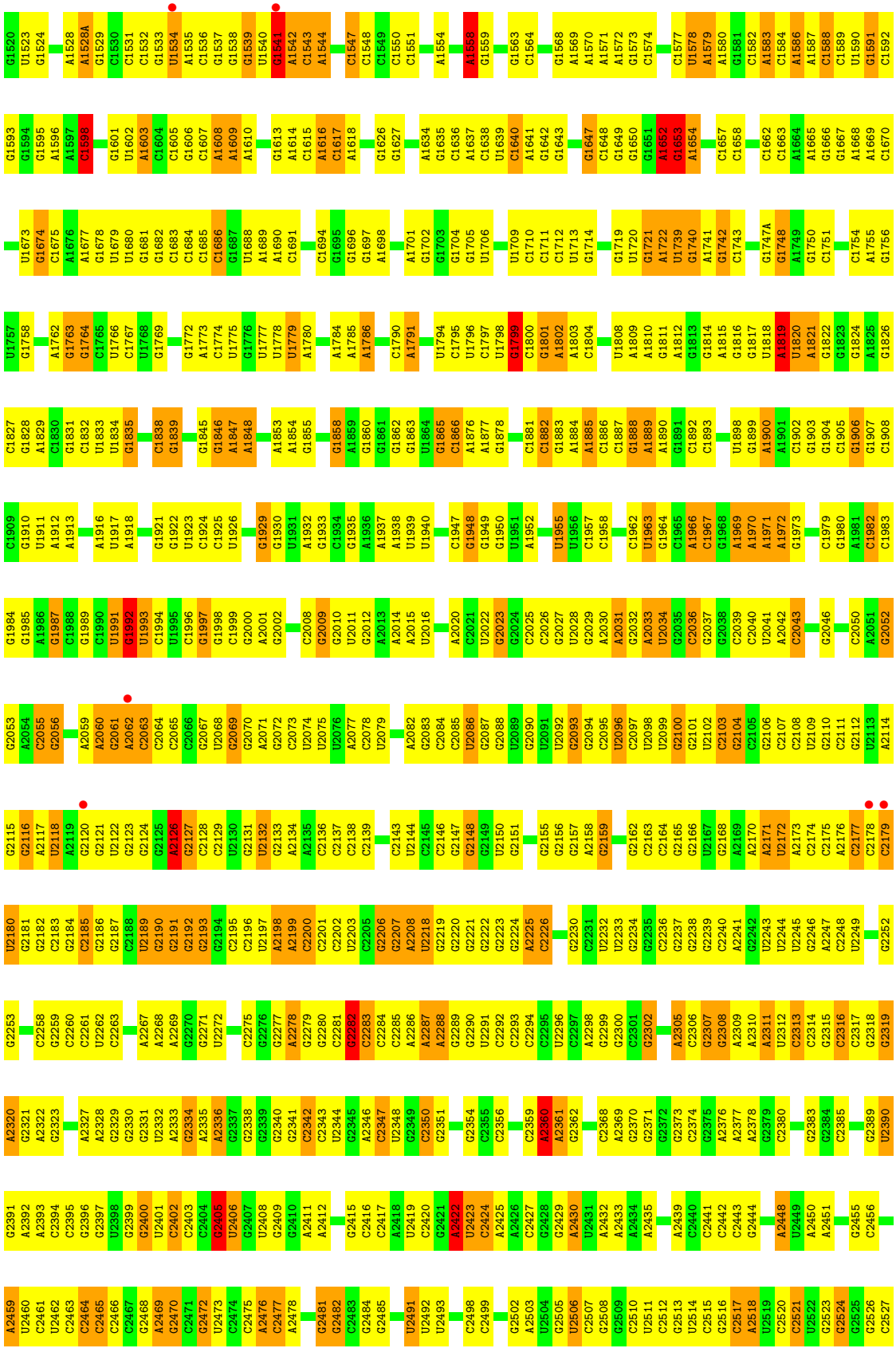


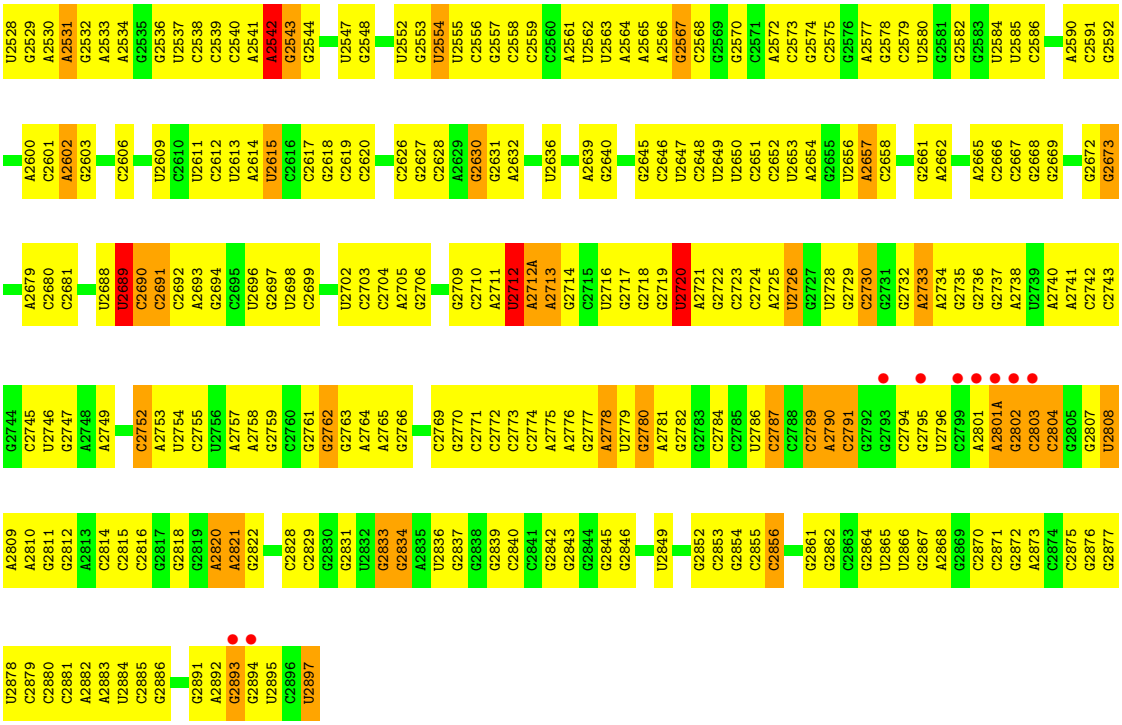
• Molecule 57: RNA (2848-MER)

Chain AA:



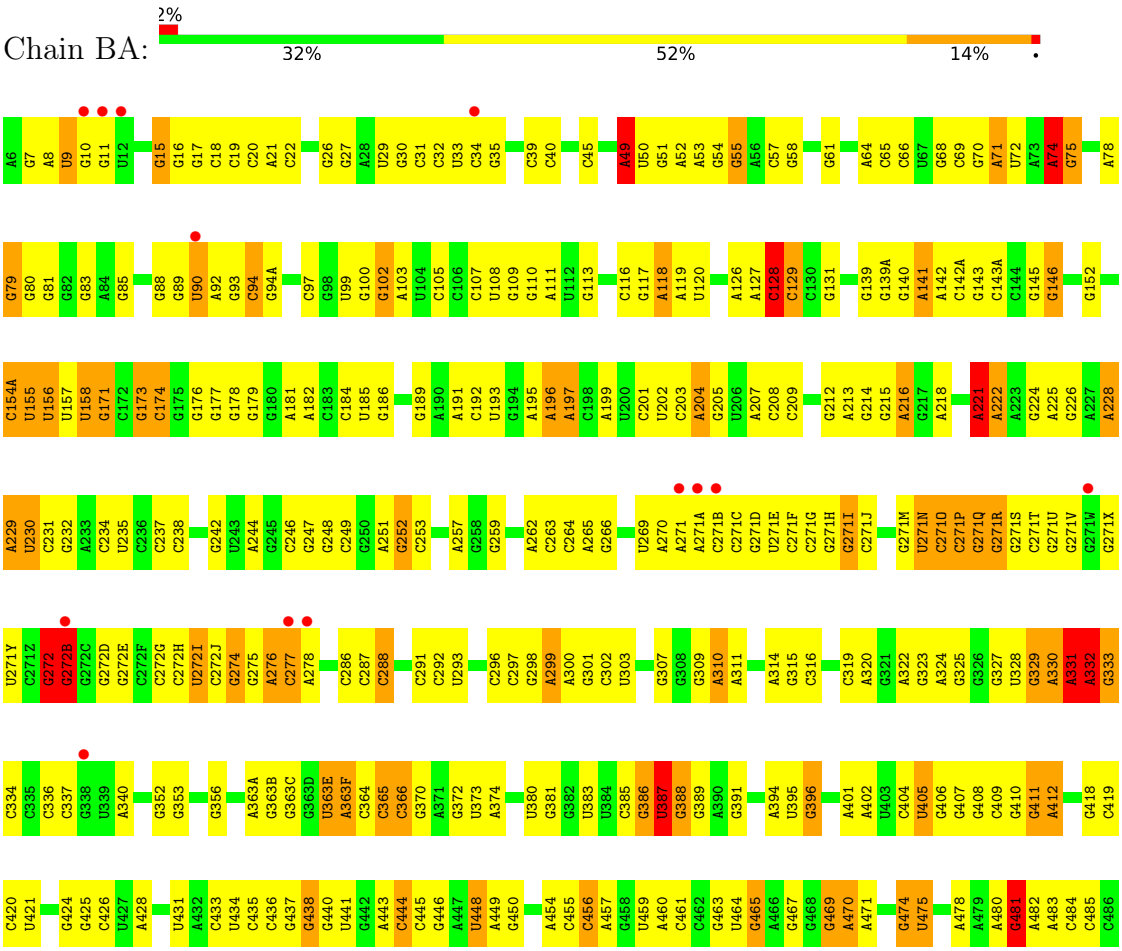


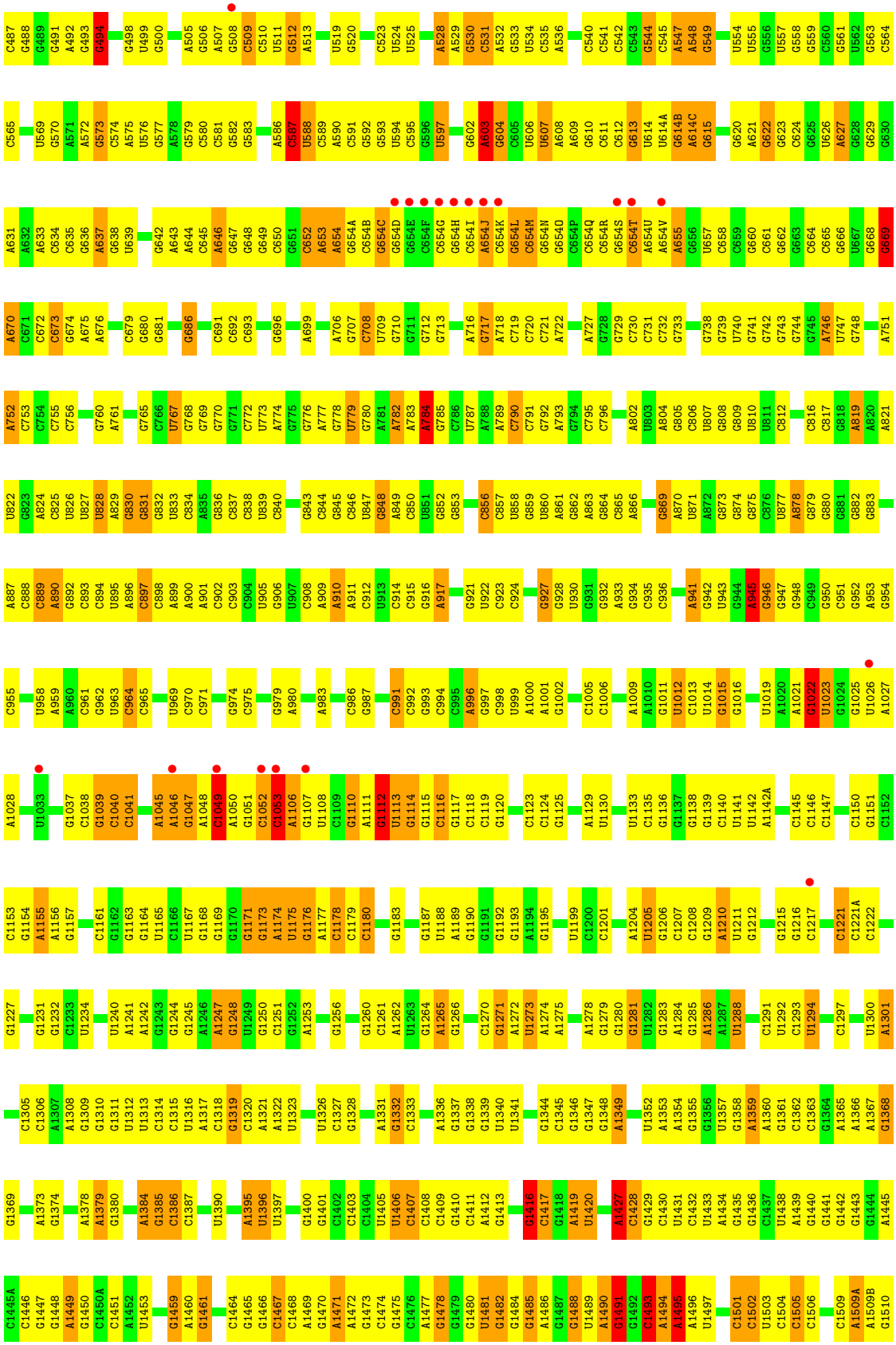


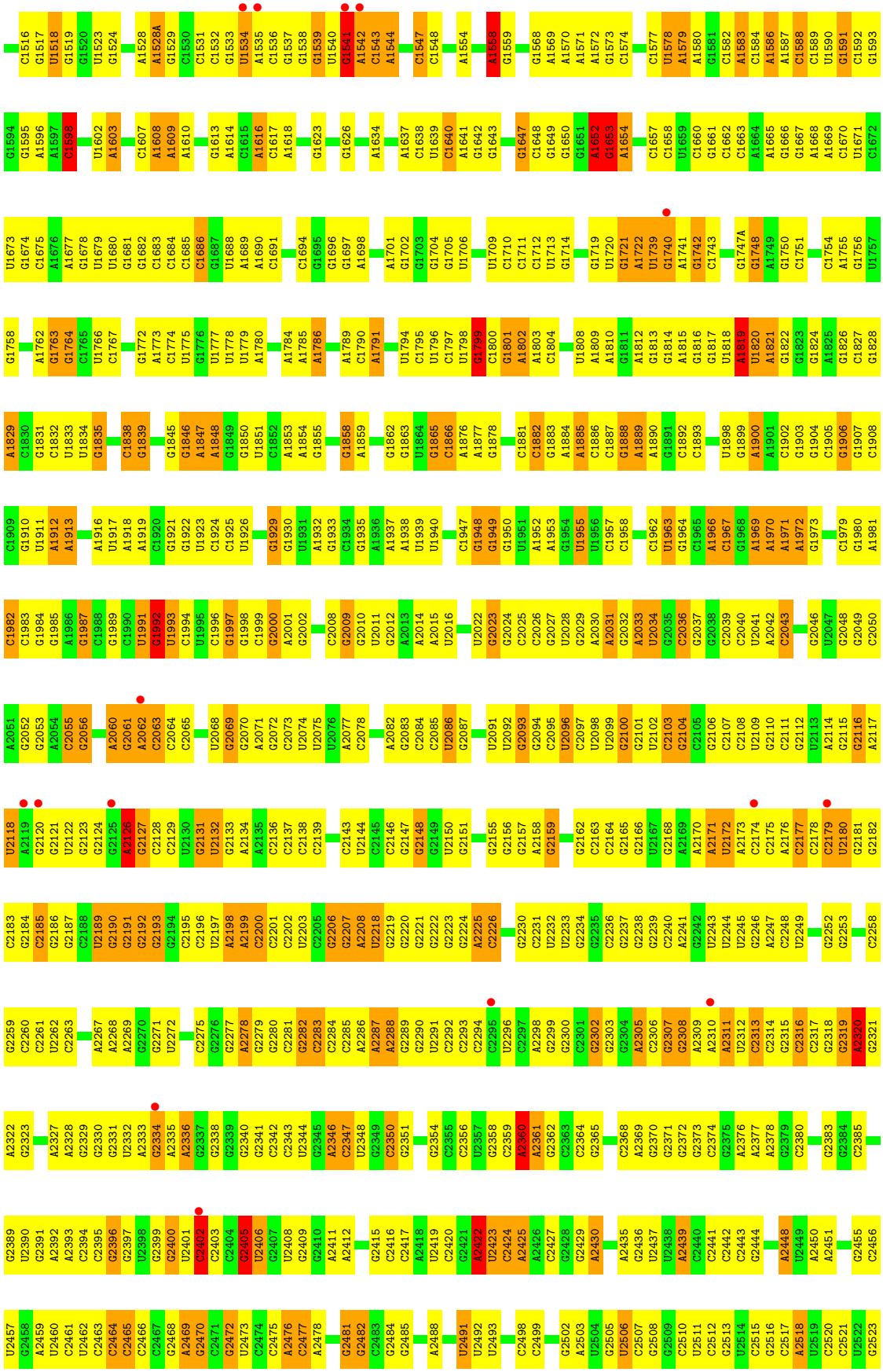


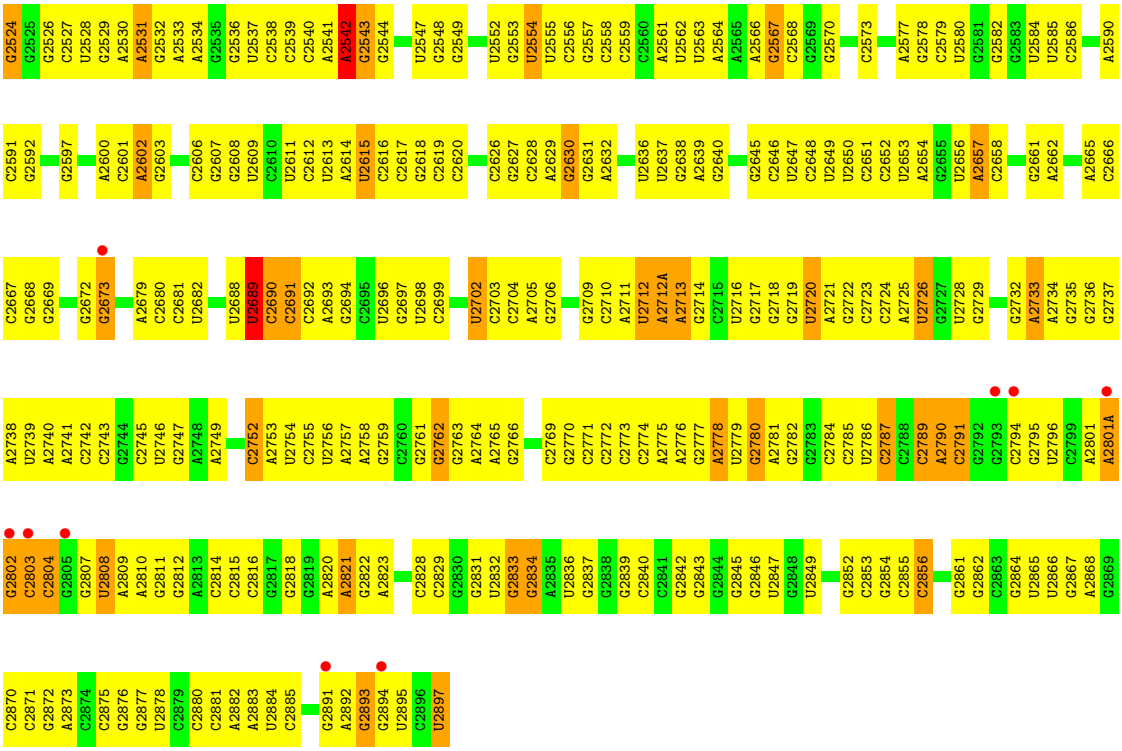
• Molecule 57: RNA (2848-MER)

Chain BA:



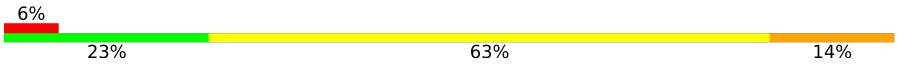


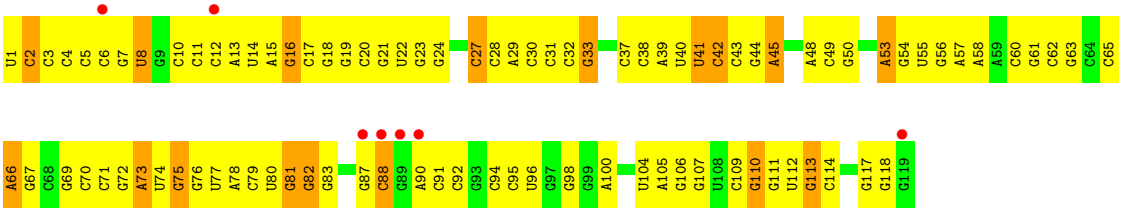




• Molecule 58: RNA (119-MER)

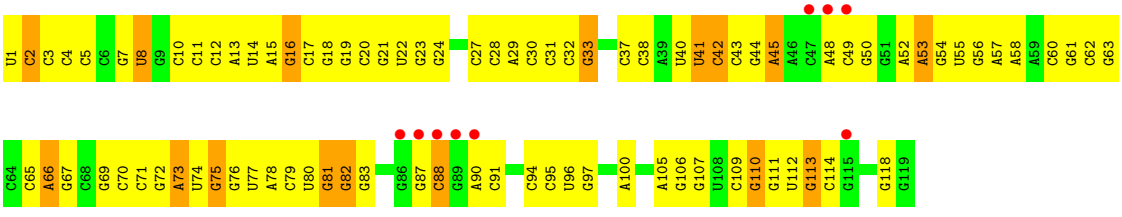
Chain AB:





• Molecule 58: RNA (119-MER)

Chain BB:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	211.23Å 451.43Å 623.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.63 – 3.60 49.63 – 3.60	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.63-3.60) 99.8 (49.63-3.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.23	Depositor
$< I/\sigma(I) >$ [1]	2.28 (at 3.57Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.215 , 0.245 0.219 , 0.251	Depositor DCC
R_{free} test set	30861 reflections (4.53%)	wwPDB-VP
Wilson B-factor (Å^2)	103.4	Xtriage
Anisotropy	0.072	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 99.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	297230	wwPDB-VP
Average B, all atoms (Å^2)	109.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: CCC, ZN, 5MU, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	Ab	0.39	0/1935	1.01	15/2609 (0.6%)
1	Bb	0.39	0/1935	1.02	17/2609 (0.7%)
2	Ac	0.40	0/1636	0.89	6/2205 (0.3%)
2	Bc	0.39	0/1636	0.89	6/2205 (0.3%)
3	Ad	0.43	0/1733	0.97	11/2318 (0.5%)
3	Bd	0.42	0/1733	0.98	9/2318 (0.4%)
4	Ae	0.42	0/1162	1.00	4/1564 (0.3%)
4	Be	0.45	0/1162	1.01	4/1564 (0.3%)
5	Af	0.40	0/856	0.91	0/1154
5	Bf	0.43	0/856	0.92	0/1154
6	Ag	0.39	0/1276	0.92	6/1709 (0.4%)
6	Bg	0.38	0/1276	0.92	6/1709 (0.4%)
7	Ah	0.42	0/1136	1.03	6/1527 (0.4%)
7	Bh	0.41	0/1136	1.02	8/1527 (0.5%)
8	Ai	0.38	0/1029	0.92	4/1379 (0.3%)
8	Bi	0.38	0/1029	0.91	4/1379 (0.3%)
9	Aj	0.42	0/807	0.99	5/1085 (0.5%)
9	Bj	0.43	0/807	0.99	5/1085 (0.5%)
10	Ak	0.41	0/900	0.96	4/1213 (0.3%)
10	Bk	0.42	0/900	0.97	4/1213 (0.3%)
11	Al	0.49	0/986	1.08	9/1320 (0.7%)
11	Bl	0.47	0/986	1.08	7/1320 (0.5%)
12	Am	0.36	0/947	0.87	1/1270 (0.1%)
12	Bm	0.37	0/947	0.95	4/1270 (0.3%)
13	An	0.39	0/501	0.79	0/664
13	Bn	0.40	0/501	0.80	0/664
14	Ao	0.41	0/745	0.89	2/992 (0.2%)
14	Bo	0.42	0/745	0.89	2/992 (0.2%)
15	Ap	0.43	0/716	0.98	3/963 (0.3%)
15	Bp	0.39	0/716	0.97	3/963 (0.3%)
16	Aq	0.42	0/836	1.02	5/1117 (0.4%)
16	Bq	0.42	0/836	1.01	5/1117 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	Ar	0.40	0/579	1.12	12/768 (1.6%)
17	Br	0.41	0/579	1.12	11/768 (1.4%)
18	As	0.44	0/642	0.94	1/865 (0.1%)
18	Bs	0.44	0/642	0.94	0/865
19	At	0.43	0/765	1.02	5/1007 (0.5%)
19	Bt	0.42	0/765	1.01	5/1007 (0.5%)
20	Au	0.46	0/212	0.78	0/277
20	Bu	0.44	0/212	0.78	0/277
21	Ay	0.42	0/793	0.86	3/1059 (0.3%)
21	By	0.41	0/793	1.12	14/1059 (1.3%)
22	Aa	0.42	0/36190	0.63	34/56486 (0.1%)
22	Ba	0.42	0/36190	0.64	29/56486 (0.1%)
23	Ax	0.46	0/289	0.80	0/449
23	Bx	0.46	0/289	0.80	0/449
24	Av	0.42	0/1810	0.67	1/2821 (0.0%)
24	Bv	0.42	0/1810	0.71	1/2821 (0.0%)
25	Aw	0.43	0/1832	0.59	1/2855 (0.0%)
25	Bw	0.43	0/1832	0.57	0/2855
26	AC	0.41	0/956	0.93	2/1288 (0.2%)
26	BC	0.39	0/956	0.93	2/1288 (0.2%)
27	AD	0.58	0/2154	1.20	25/2905 (0.9%)
27	BD	0.62	0/2154	1.22	25/2905 (0.9%)
28	AE	0.58	0/1596	1.25	18/2153 (0.8%)
28	BE	0.61	0/1596	1.24	18/2153 (0.8%)
29	AF	0.52	0/1658	1.15	19/2244 (0.8%)
29	BF	0.54	0/1658	1.17	17/2244 (0.8%)
30	AG	0.44	0/1499	1.12	14/2016 (0.7%)
30	BG	0.47	0/1499	1.11	10/2016 (0.5%)
31	AH	0.46	0/1284	1.22	17/1739 (1.0%)
31	BH	0.54	0/1284	1.26	17/1739 (1.0%)
32	AI	0.54	0/1146	1.19	10/1551 (0.6%)
32	BI	0.54	0/1146	1.17	12/1551 (0.8%)
33	AJ	0.59	0/640	1.23	10/889 (1.1%)
33	BJ	0.59	0/640	1.37	13/889 (1.5%)
34	AN	0.48	0/1131	1.19	15/1525 (1.0%)
34	BN	0.55	0/1131	1.21	15/1525 (1.0%)
35	AO	0.56	0/943	1.01	5/1269 (0.4%)
35	BO	0.57	0/943	1.02	6/1269 (0.5%)
36	AP	0.57	0/1131	1.43	24/1504 (1.6%)
36	BP	0.65	0/1131	1.46	23/1504 (1.5%)
37	AQ	0.47	0/1133	1.03	8/1515 (0.5%)
37	BQ	0.49	0/1133	1.05	10/1515 (0.7%)
38	AR	0.57	0/974	1.15	9/1302 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	BR	0.62	0/974	1.16	9/1302 (0.7%)
39	AS	0.45	0/778	1.14	11/1036 (1.1%)
39	BS	0.47	0/778	1.13	12/1036 (1.2%)
40	AT	0.58	0/1137	1.34	16/1519 (1.1%)
40	BT	0.60	0/1137	1.35	18/1519 (1.2%)
41	AU	0.54	0/975	1.13	7/1297 (0.5%)
41	BU	0.63	0/975	1.15	9/1297 (0.7%)
42	AV	0.49	0/790	1.03	2/1057 (0.2%)
42	BV	0.53	0/790	1.05	3/1057 (0.3%)
43	AW	0.55	0/907	1.07	5/1216 (0.4%)
43	BW	0.57	0/907	1.09	6/1216 (0.5%)
44	AX	0.50	0/739	0.98	2/993 (0.2%)
44	BX	0.56	0/739	1.02	3/993 (0.3%)
45	AY	0.57	0/788	1.26	8/1051 (0.8%)
45	BY	0.63	0/788	1.29	9/1051 (0.9%)
46	AZ	0.42	0/1499	1.04	8/2035 (0.4%)
46	BZ	0.46	0/1499	1.12	15/2035 (0.7%)
47	A0	0.48	0/671	0.99	6/892 (0.7%)
47	B0	0.50	0/671	0.99	6/892 (0.7%)
48	A1	0.51	1/738 (0.1%)	1.18	8/981 (0.8%)
48	B1	0.59	0/738	1.19	8/981 (0.8%)
49	A2	0.41	0/600	0.87	1/793 (0.1%)
49	B2	0.58	0/600	1.06	2/793 (0.3%)
50	A3	0.47	0/472	1.03	2/634 (0.3%)
50	B3	0.52	0/472	1.03	4/634 (0.6%)
51	A4	0.51	0/460	1.07	3/621 (0.5%)
51	B4	0.52	0/460	1.06	2/621 (0.3%)
52	A5	0.58	0/441	1.28	6/596 (1.0%)
52	B5	0.61	0/441	1.29	6/596 (1.0%)
53	A6	0.55	0/440	1.22	4/586 (0.7%)
53	B6	0.56	0/440	1.21	4/586 (0.7%)
54	A7	0.53	0/417	1.08	2/550 (0.4%)
54	B7	0.62	0/417	1.14	3/550 (0.5%)
55	A8	0.67	0/515	1.29	7/679 (1.0%)
55	B8	0.70	0/515	1.32	7/679 (1.0%)
56	A9	0.43	0/310	0.99	1/407 (0.2%)
56	B9	0.48	0/310	1.00	1/407 (0.2%)
57	AA	0.44	0/68704	0.70	67/107260 (0.1%)
57	BA	0.46	0/68704	0.72	69/107260 (0.1%)
58	AB	0.41	0/2853	0.66	0/4451
58	BB	0.43	0/2853	0.67	0/4451
All	All	0.46	1/321584 (0.0%)	0.81	988/480460 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
21	Ay	0	1
22	Aa	0	8
22	Ba	1	11
24	Av	0	1
24	Bv	0	1
34	AN	0	1
34	BN	0	1
43	AW	0	1
43	BW	0	1
52	A5	0	1
52	B5	0	1
57	AA	3	48
57	BA	3	49
All	All	7	125

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	A1	67	ILE	CA-CB	-5.46	1.51	1.54

All (988) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	BA	790	C	C2'-C3'-O3'	15.51	132.76	109.50
22	Ba	1498	U	C2'-C3'-O3'	15.41	132.61	109.50
57	AA	790	C	C2'-C3'-O3'	14.65	131.47	109.50
57	AA	1992	G	C2'-C3'-O3'	14.60	131.40	109.50
57	BA	1992	G	C2'-C3'-O3'	14.49	131.24	109.50
32	BI	67	ARG	N-CA-C	-13.94	96.40	113.41
32	AI	67	ARG	N-CA-C	-13.88	96.47	113.41
57	BA	1799	G	C2'-C3'-O3'	13.58	129.87	109.50
30	AG	54	GLU	N-CA-C	-13.35	93.58	113.61
57	BA	1820	U	C2'-C3'-O3'	13.16	129.24	109.50
57	AA	1799	G	C2'-C3'-O3'	13.13	129.20	109.50
57	BA	1819	A	C2'-C3'-O3'	13.11	129.16	109.50
57	BA	1653	G	C2'-C3'-O3'	12.87	128.81	109.50
57	AA	1820	U	C2'-C3'-O3'	12.86	128.79	109.50
57	BA	331	A	C2'-C3'-O3'	12.84	128.76	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	BA	1022	G	C2'-C3'-O3'	12.68	128.52	109.50
30	BG	54	GLU	N-CA-C	-12.67	97.92	113.50
57	AA	331	A	C2'-C3'-O3'	12.62	128.42	109.50
57	AA	1819	A	C2'-C3'-O3'	12.50	128.25	109.50
22	Aa	575	G	C2'-C3'-O3'	12.42	128.13	109.50
57	AA	1653	G	C2'-C3'-O3'	12.40	128.11	109.50
22	Ba	575	G	C2'-C3'-O3'	12.34	128.01	109.50
22	Aa	115	G	C2'-C3'-O3'	12.32	127.98	109.50
36	AP	52	GLU	N-CA-C	12.27	136.94	110.80
36	BP	52	GLU	N-CA-C	12.21	136.80	110.80
57	AA	49	A	C2'-C3'-O3'	12.20	127.79	109.50
36	AP	54	GLY	N-CA-C	-12.14	97.92	115.64
57	AA	1022	G	C2'-C3'-O3'	12.09	127.64	109.50
57	BA	49	A	C2'-C3'-O3'	12.03	127.55	109.50
57	BA	752	A	C2'-C3'-O3'	12.01	127.51	109.50
36	BP	54	GLY	N-CA-C	-11.98	97.78	115.63
22	Ba	115	G	C2'-C3'-O3'	11.95	127.42	109.50
57	AA	752	A	C2'-C3'-O3'	11.83	127.25	109.50
22	Aa	366	C	C2'-C3'-O3'	11.78	127.17	109.50
22	Ba	366	C	C2'-C3'-O3'	11.67	127.00	109.50
27	AD	210	GLY	N-CA-C	-11.30	94.34	112.31
27	BD	210	GLY	N-CA-C	-11.14	94.61	112.66
45	AY	19	LYS	N-CA-C	-11.09	99.70	113.01
41	AU	97	ASP	N-CA-C	-10.98	100.12	113.19
45	BY	19	LYS	N-CA-C	-10.79	100.06	113.01
40	AT	59	THR	N-CA-C	-10.76	93.74	110.42
41	BU	97	ASP	N-CA-C	-10.55	100.64	113.19
28	AE	73	GLU	CA-C-N	10.46	130.57	119.90
28	AE	73	GLU	C-N-CA	10.46	130.57	119.90
3	Ad	31	CYS	N-CA-C	-10.36	101.29	113.21
57	AA	74	A	C2'-C3'-O3'	10.32	124.98	109.50
22	Ba	60	A	C2'-C3'-O3'	10.28	124.93	109.50
22	Aa	60	A	C2'-C3'-O3'	10.27	124.91	109.50
45	AY	99	CYS	N-CA-C	-10.22	102.97	114.62
45	BY	99	CYS	N-CA-C	-10.19	103.01	114.62
30	BG	125	PHE	N-CA-C	-10.16	100.28	111.36
34	AN	67	LEU	N-CA-C	-10.14	97.14	110.53
3	Bd	31	CYS	N-CA-C	-10.09	101.60	113.21
36	AP	16	ARG	N-CA-C	-10.05	100.89	113.55
34	BN	67	LEU	N-CA-C	-10.01	97.31	110.53
40	BT	59	THR	N-CA-C	-9.92	94.20	110.17
36	BP	41	ARG	N-CA-C	-9.76	92.39	108.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	BA	74	A	C2'-C3'-O3'	9.70	124.05	109.50
31	BH	153	LYS	CA-C-N	9.68	131.93	119.84
31	BH	153	LYS	C-N-CA	9.68	131.93	119.84
27	AD	212	SER	N-CA-C	-9.63	100.09	112.23
36	BP	16	ARG	N-CA-C	-9.62	101.43	113.55
57	AA	1819	A	C4'-C3'-O3'	9.56	123.75	109.40
31	BH	167	GLU	CA-C-N	9.48	130.19	120.14
31	BH	167	GLU	C-N-CA	9.48	130.19	120.14
31	AH	153	LYS	CA-C-N	9.46	131.67	119.84
31	AH	153	LYS	C-N-CA	9.46	131.67	119.84
36	AP	41	ARG	N-CA-C	-9.42	92.94	108.49
26	BC	190	ILE	N-CA-C	-9.35	103.77	111.81
21	Ay	85	GLU	N-CA-C	-9.35	101.89	113.20
53	B6	24	GLU	N-CA-C	9.33	120.56	108.34
22	Aa	913	A	C2'-C3'-O3'	9.29	123.44	109.50
22	Ba	913	A	C2'-C3'-O3'	9.28	123.42	109.50
57	BA	1819	A	C4'-C3'-O3'	9.28	123.32	109.40
26	AC	190	ILE	N-CA-C	-9.27	103.84	111.81
52	A5	46	CYS	CA-C-N	9.19	131.32	119.84
52	A5	46	CYS	C-N-CA	9.19	131.32	119.84
30	AG	125	PHE	N-CA-C	-9.13	100.53	112.68
53	A6	24	GLU	N-CA-C	9.10	120.27	108.34
36	BP	58	THR	N-CA-C	-9.08	91.45	110.80
51	B4	42	PHE	N-CA-C	9.06	120.66	107.88
57	AA	1820	U	C4'-C3'-O3'	9.06	122.98	109.40
57	BA	1799	G	C4'-C3'-O3'	9.02	122.93	109.40
36	AP	58	THR	N-CA-C	-8.99	91.64	110.80
48	B1	90	ILE	N-CA-C	-8.96	102.10	110.53
51	A4	42	PHE	N-CA-C	8.95	120.50	107.88
52	B5	46	CYS	CA-C-N	8.92	131.00	119.84
52	B5	46	CYS	C-N-CA	8.92	131.00	119.84
57	AA	1799	G	C4'-C3'-O3'	8.92	122.78	109.40
1	Ab	169	LYS	N-CA-C	-8.91	104.46	114.62
22	Aa	266	G	C2'-C3'-O3'	8.89	122.83	109.50
57	AA	272	G	C2'-C3'-O3'	8.89	122.83	109.50
36	AP	59	LEU	N-CA-C	-8.87	100.88	112.41
31	AH	158	HIS	N-CA-C	8.85	129.64	110.80
57	BA	1820	U	C4'-C3'-O3'	8.81	122.61	109.40
31	BH	158	HIS	N-CA-C	8.79	129.53	110.80
41	BU	58	ARG	N-CA-C	-8.79	100.50	111.75
22	Ba	266	G	C2'-C3'-O3'	8.79	122.68	109.50
22	Aa	1067	A	C2'-C3'-O3'	8.78	122.67	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BP	51	PHE	N-CA-C	8.78	121.21	110.41
22	Aa	428	G	C2'-C3'-O3'	8.73	122.60	109.50
57	AA	1652	A	C2'-C3'-O3'	8.73	126.79	113.70
30	AG	167	GLU	N-CA-C	-8.72	101.35	111.03
31	AH	167	GLU	CA-C-N	8.72	129.38	120.14
31	AH	167	GLU	C-N-CA	8.72	129.38	120.14
57	BA	272	G	C2'-C3'-O3'	8.71	122.57	109.50
32	BI	79	ILE	N-CA-C	8.70	117.51	107.77
36	BP	59	LEU	N-CA-C	-8.68	101.12	112.41
22	Ba	1067	A	C2'-C3'-O3'	8.68	122.52	109.50
21	By	30	LEU	N-CA-C	-8.68	103.28	114.04
22	Ba	428	G	C2'-C3'-O3'	8.67	122.50	109.50
32	AI	79	ILE	N-CA-C	8.65	117.46	107.77
29	AF	71	GLY	N-CA-C	-8.62	103.70	113.79
36	AP	51	PHE	N-CA-C	8.61	121.00	110.41
28	BE	52	LEU	CA-C-N	8.61	130.60	119.84
28	BE	52	LEU	C-N-CA	8.61	130.60	119.84
28	BE	73	GLU	CA-C-N	8.61	130.60	119.84
28	BE	73	GLU	C-N-CA	8.61	130.60	119.84
57	BA	1652	A	C2'-C3'-O3'	8.60	126.60	113.70
27	BD	212	SER	N-CA-C	-8.52	101.49	112.23
1	Bb	169	LYS	N-CA-C	-8.51	104.92	114.62
46	AZ	112	ARG	N-CA-C	-8.47	102.89	113.23
57	BA	1427	A	C2'-C3'-O3'	8.47	122.21	109.50
32	AI	50	ARG	NE-CZ-NH2	8.46	126.81	119.20
40	BT	4	GLY	N-CA-C	-8.41	102.09	113.27
30	BG	53	LEU	N-CA-C	8.38	122.94	111.54
19	At	12	ALA	N-CA-C	-8.38	102.07	113.30
41	BU	96	ALA	N-CA-C	-8.36	102.63	112.92
15	Bp	77	ALA	N-CA-C	-8.34	101.56	112.41
41	AU	58	ARG	N-CA-C	-8.33	101.09	111.75
27	BD	269	PHE	N-CA-C	-8.30	101.87	114.16
7	Ah	100	ILE	CA-C-N	8.29	130.21	119.84
7	Ah	100	ILE	C-N-CA	8.29	130.21	119.84
30	AG	79	ASN	N-CA-C	-8.28	102.05	112.90
28	AE	52	LEU	CA-C-N	8.24	130.14	119.84
28	AE	52	LEU	C-N-CA	8.24	130.14	119.84
11	Al	119	LYS	N-CA-C	-8.23	96.67	109.76
27	AD	43	ARG	N-CA-C	8.22	122.67	113.21
39	AS	56	LEU	N-CA-C	-8.22	104.40	114.75
15	Ap	79	VAL	N-CA-C	-8.21	105.91	113.71
57	AA	1427	A	C2'-C3'-O3'	8.21	121.81	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Bd	11	LEU	N-CA-C	-8.21	101.59	111.69
57	AA	1022	G	C4'-C3'-O3'	8.21	121.71	109.40
40	AT	4	GLY	N-CA-C	-8.20	102.36	113.27
17	Br	81	PHE	N-CA-C	-8.19	103.89	114.04
53	A6	17	LYS	N-CA-C	-8.18	102.60	112.58
17	Ar	81	PHE	N-CA-C	-8.17	103.91	114.04
32	AI	50	ARG	NE-CZ-NH1	-8.16	113.34	121.50
27	BD	43	ARG	N-CA-C	8.15	122.58	113.21
7	Bh	100	ILE	CA-C-N	8.14	130.01	119.84
7	Bh	100	ILE	C-N-CA	8.14	130.01	119.84
57	BA	2360	A	N9-C1'-C2'	-8.12	101.82	114.00
28	AE	65	GLY	N-CA-C	-8.09	101.83	115.34
8	Ai	93	ARG	N-CA-C	-8.09	103.62	113.97
41	AU	96	ALA	N-CA-C	-8.08	102.98	112.92
19	Bt	12	ALA	N-CA-C	-8.05	102.51	113.30
34	BN	110	GLY	CA-C-N	8.05	127.61	119.24
34	BN	110	GLY	C-N-CA	8.05	127.61	119.24
57	BA	387	U	C2'-C3'-O3'	8.04	121.56	109.50
31	AH	35	VAL	N-CA-C	8.03	116.10	108.15
21	By	14	GLU	N-CA-C	-8.03	103.08	113.12
3	Ad	11	LEU	N-CA-C	-8.02	101.82	111.69
8	Bi	93	ARG	N-CA-C	-8.01	103.72	113.97
40	AT	30	VAL	N-CA-C	8.00	125.98	109.34
57	AA	752	A	C4'-C3'-O3'	7.99	121.39	109.40
7	Ah	77	GLU	N-CA-C	-7.99	100.23	110.53
43	BW	57	ASN	N-CA-C	-7.97	103.50	113.55
33	BJ	9	LEU	N-CA-C	-7.97	101.88	112.72
29	BF	71	GLY	N-CA-C	-7.96	104.48	113.79
15	Ap	77	ALA	N-CA-C	-7.94	102.08	112.41
1	Ab	78	GLN	N-CA-C	-7.93	104.21	114.04
22	Aa	366	C	C4'-C3'-O3'	7.93	121.29	109.40
22	Aa	1498	U	C2'-C3'-O3'	7.92	121.38	109.50
11	Bl	119	LYS	N-CA-C	-7.91	97.18	109.76
22	Ba	687	A	C2'-C3'-O3'	7.91	121.37	109.50
28	BE	65	GLY	N-CA-C	-7.90	102.14	115.34
43	AW	57	ASN	N-CA-C	-7.89	103.61	113.55
57	BA	1022	G	C4'-C3'-O3'	7.88	121.21	109.40
22	Aa	687	A	C2'-C3'-O3'	7.87	121.31	109.50
46	BZ	149	SER	N-CA-C	7.84	119.92	108.86
22	Ba	366	C	C4'-C3'-O3'	7.83	121.15	109.40
40	BT	30	VAL	N-CA-C	7.83	125.62	109.34
57	BA	74	A	C4'-C3'-O3'	7.82	121.13	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	BG	51	ARG	N-CA-C	7.82	121.75	107.99
57	BA	752	A	C4'-C3'-O3'	7.80	121.11	109.40
48	A1	67	ILE	CB-CA-C	-7.74	106.34	113.70
48	A1	74	VAL	N-CA-C	-7.74	102.79	110.30
11	Bl	118	SER	N-CA-C	-7.73	102.54	110.97
40	BT	80	SER	N-CA-C	7.73	126.90	109.81
40	AT	76	PHE	CA-C-N	7.68	127.40	119.56
40	AT	76	PHE	C-N-CA	7.68	127.40	119.56
34	BN	43	THR	CA-C-N	7.67	129.43	119.84
34	BN	43	THR	C-N-CA	7.67	129.43	119.84
30	BG	140	ILE	N-CA-C	-7.66	105.54	112.90
57	AA	2225	A	C2'-C3'-O3'	7.65	120.98	109.50
1	Bb	78	GLN	N-CA-C	-7.65	104.56	114.04
39	BS	56	LEU	N-CA-C	-7.63	105.13	114.75
39	BS	16	ASN	N-CA-C	-7.63	103.97	113.20
33	BJ	33	PRO	N-CA-CB	7.62	111.25	103.25
57	AA	74	A	C4'-C3'-O3'	7.61	120.82	109.40
1	Bb	122	PHE	N-CA-C	-7.60	102.53	112.41
46	BZ	67	LEU	N-CA-C	7.59	121.72	110.10
40	AT	80	SER	N-CA-C	7.59	126.58	109.81
6	Ag	60	LYS	N-CA-C	-7.58	104.27	113.97
57	AA	387	U	C2'-C3'-O3'	7.58	120.86	109.50
40	BT	23	ARG	CA-C-N	7.55	129.28	119.84
40	BT	23	ARG	C-N-CA	7.55	129.28	119.84
34	AN	109	LYS	N-CA-C	7.55	121.41	111.75
31	BH	139	GLN	N-CA-C	-7.53	103.15	111.36
6	Bg	60	LYS	N-CA-C	-7.51	104.64	113.88
45	BY	7	VAL	N-CA-C	7.51	124.96	109.34
31	BH	35	VAL	N-CA-C	7.51	115.58	108.15
31	AH	7	LEU	CA-C-N	7.50	129.22	119.84
31	AH	7	LEU	C-N-CA	7.50	129.22	119.84
15	Bp	79	VAL	N-CA-C	-7.49	106.59	113.71
14	Bo	78	TYR	N-CA-C	-7.49	101.58	111.24
34	BN	18	ALA	N-CA-C	-7.49	100.28	110.68
57	BA	1558	A	C2'-C3'-O3'	7.48	120.72	109.50
11	Bl	44	THR	CA-C-N	7.48	128.49	120.11
11	Bl	44	THR	C-N-CA	7.48	128.49	120.11
57	BA	49	A	C4'-C3'-O3'	7.46	120.58	109.40
14	Ao	78	TYR	N-CA-C	-7.45	101.63	111.24
34	AN	18	ALA	N-CA-C	-7.44	100.34	110.68
57	BA	2225	A	C2'-C3'-O3'	7.43	120.65	109.50
39	AS	106	ARG	N-CA-C	-7.43	104.34	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	AF	23	ASP	N-CA-C	-7.43	104.35	113.19
40	BT	76	PHE	CA-C-N	7.42	127.13	119.56
40	BT	76	PHE	C-N-CA	7.42	127.13	119.56
4	Ae	113	ALA	N-CA-C	-7.40	104.13	113.01
22	Aa	533	A	C2'-C3'-O3'	7.39	120.58	109.50
38	AR	7	GLY	N-CA-C	7.38	123.16	112.60
45	AY	47	LYS	N-CA-C	7.38	120.26	111.33
22	Aa	992	U	C2'-C3'-O3'	7.38	120.56	109.50
40	AT	109	GLU	N-CA-C	-7.37	103.24	112.90
40	BT	125	ARG	N-CA-C	-7.37	99.61	111.04
19	At	72	LEU	N-CA-C	-7.37	100.18	110.35
11	Al	118	SER	N-CA-C	-7.33	102.98	110.97
22	Ba	533	A	C2'-C3'-O3'	7.31	120.47	109.50
39	BS	106	ARG	N-CA-C	-7.31	104.49	113.19
45	AY	7	VAL	N-CA-C	7.29	124.51	109.34
22	Ba	115	G	C4'-C3'-O3'	7.29	120.34	109.40
46	BZ	67	LEU	CA-C-N	7.29	128.95	119.84
46	BZ	67	LEU	C-N-CA	7.29	128.95	119.84
40	AT	23	ARG	CA-C-N	7.28	128.94	119.84
40	AT	23	ARG	C-N-CA	7.28	128.94	119.84
34	BN	109	LYS	N-CA-C	7.28	121.06	111.75
34	AN	110	GLY	CA-C-N	7.27	126.80	119.24
34	AN	110	GLY	C-N-CA	7.27	126.80	119.24
11	Al	44	THR	CA-C-N	7.26	128.25	120.11
11	Al	44	THR	C-N-CA	7.26	128.25	120.11
4	Be	67	VAL	N-CA-C	7.26	117.90	107.88
39	AS	55	ALA	N-CA-C	-7.24	104.04	113.17
40	BT	109	GLU	N-CA-C	-7.23	103.43	112.90
22	Ba	992	U	C2'-C3'-O3'	7.23	120.34	109.50
48	A1	90	ILE	N-CA-C	-7.21	103.64	110.42
55	A8	32	LEU	N-CA-C	-7.20	103.36	111.14
4	Ae	67	VAL	N-CA-C	7.20	117.82	107.88
37	BQ	72	LYS	CA-C-N	7.20	127.46	119.90
37	BQ	72	LYS	C-N-CA	7.20	127.46	119.90
19	At	27	LYS	N-CA-C	-7.20	103.12	110.97
22	Ba	79	G	C2'-C3'-O3'	7.20	120.30	109.50
17	Br	44	LEU	N-CA-C	7.18	122.00	111.87
29	BF	23	ASP	N-CA-C	-7.17	104.65	113.19
4	Be	113	ALA	N-CA-C	-7.17	104.41	113.01
7	Bh	77	GLU	N-CA-C	-7.16	100.47	110.35
34	BN	132	ALA	N-CA-C	-7.16	102.51	112.25
22	Ba	1498	U	C4'-C3'-O3'	7.16	120.14	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	AA	2360	A	N9-C1'-C2'	-7.15	101.27	112.00
17	Ar	44	LEU	N-CA-C	7.15	121.95	111.87
22	Aa	79	G	C2'-C3'-O3'	7.15	120.22	109.50
28	AE	74	PRO	N-CA-C	7.15	122.44	111.15
38	BR	7	GLY	N-CA-C	7.14	122.81	112.60
57	AA	587	C	C2'-C3'-O3'	7.13	120.19	109.50
39	AS	44	LYS	N-CA-C	-7.10	106.53	114.62
38	BR	70	LEU	N-CA-C	-7.10	98.03	109.96
46	BZ	129	SER	CA-C-N	7.10	126.80	119.56
46	BZ	129	SER	C-N-CA	7.10	126.80	119.56
57	BA	1786	A	N9-C1'-C2'	7.09	124.64	114.00
39	AS	16	ASN	N-CA-C	-7.08	104.63	113.20
22	Aa	115	G	C4'-C3'-O3'	7.08	120.01	109.40
22	Ba	748	C	C2'-C3'-O3'	7.07	120.10	109.50
27	AD	91	ARG	N-CA-C	-7.06	99.76	110.14
33	BJ	85	ASP	CA-C-N	7.05	128.65	119.84
33	BJ	85	ASP	C-N-CA	7.05	128.65	119.84
24	Bv	76	A	C2'-C3'-O3'	-7.04	98.95	109.50
1	Ab	117	GLU	N-CA-C	-7.03	104.52	113.23
53	B6	17	LYS	N-CA-C	-7.03	102.51	111.92
34	AN	132	ALA	N-CA-C	-7.02	102.70	112.25
55	B8	32	LEU	N-CA-C	-7.01	103.57	111.14
45	BY	47	LYS	N-CA-C	6.99	119.78	111.33
22	Aa	748	C	C2'-C3'-O3'	6.99	119.98	109.50
27	BD	91	ARG	N-CA-C	-6.99	99.87	110.14
1	Bb	117	GLU	N-CA-C	-6.98	104.57	113.23
2	Bc	88	ARG	N-CA-C	-6.97	104.74	113.18
55	B8	25	MET	N-CA-C	6.97	120.75	110.30
31	AH	139	GLN	N-CA-C	-6.95	103.70	111.28
57	BA	1495	A	N9-C1'-C2'	6.95	122.43	112.00
30	BG	88	ILE	N-CA-C	6.95	119.97	109.20
2	Ac	88	ARG	N-CA-C	-6.95	104.68	113.01
1	Bb	164	VAL	N-CA-C	6.94	118.35	108.42
57	AA	49	A	C4'-C3'-O3'	6.93	119.80	109.40
57	BA	587	C	C2'-C3'-O3'	6.93	119.90	109.50
57	AA	1970	A	C5'-C4'-C3'	6.93	125.59	115.20
1	Ab	122	PHE	N-CA-C	-6.91	102.12	111.87
1	Bb	153	ARG	N-CA-C	-6.91	103.93	114.16
31	BH	7	LEU	CA-C-N	6.90	128.47	119.84
31	BH	7	LEU	C-N-CA	6.90	128.47	119.84
57	AA	1558	A	C2'-C3'-O3'	6.90	119.86	109.50
57	BA	1970	A	C5'-C4'-C3'	6.89	125.54	115.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	By	83	ARG	N-CA-C	-6.87	103.20	112.26
19	Bt	27	LYS	N-CA-C	-6.86	103.49	110.97
34	AN	43	THR	CA-C-N	6.86	128.41	119.84
34	AN	43	THR	C-N-CA	6.86	128.41	119.84
43	AW	98	LYS	N-CA-C	-6.85	96.45	108.23
40	BT	29	ARG	N-CA-C	6.83	125.34	110.80
17	Ar	47	THR	N-CA-C	-6.83	104.27	114.64
19	Bt	72	LEU	N-CA-C	-6.82	100.94	110.35
28	BE	137	HIS	CA-C-N	6.82	126.42	119.19
28	BE	137	HIS	C-N-CA	6.82	126.42	119.19
57	AA	1786	A	N9-C1'-C2'	6.80	124.20	114.00
37	AQ	72	LYS	CA-C-N	6.80	127.04	119.90
37	AQ	72	LYS	C-N-CA	6.80	127.04	119.90
45	BY	8	LYS	N-CA-C	6.79	120.25	109.65
27	BD	53	PHE	N-CA-C	6.79	120.90	111.74
45	BY	65	ALA	CA-C-N	6.79	128.32	119.84
45	BY	65	ALA	C-N-CA	6.79	128.32	119.84
27	AD	53	PHE	N-CA-C	6.79	120.90	111.74
24	Av	76	A	C2'-C3'-O3'	-6.76	99.35	109.50
57	AA	790	C	C4'-C3'-O3'	6.74	119.51	109.40
17	Br	47	THR	N-CA-C	-6.74	104.40	114.64
22	Aa	1504	G	C2'-C3'-O3'	6.74	119.60	109.50
29	AF	187	VAL	N-CA-C	6.74	117.71	111.45
30	AG	174	GLU	N-CA-C	-6.73	103.87	111.14
55	A8	25	MET	N-CA-C	6.73	120.60	110.64
29	BF	187	VAL	N-CA-C	6.73	117.71	111.45
31	BH	107	VAL	N-CA-C	6.72	116.56	106.42
32	AI	57	ARG	N-CA-C	-6.71	105.09	113.28
33	BJ	105	PRO	N-CA-CB	6.71	110.29	103.25
57	AA	474	G	C2'-C3'-O3'	6.71	119.56	109.50
57	BA	474	G	C2'-C3'-O3'	6.70	119.55	109.50
57	AA	1495	A	N9-C1'-C2'	6.70	122.05	112.00
40	AT	29	ARG	N-CA-C	6.69	125.04	110.80
11	Bl	61	THR	N-CA-C	-6.69	104.07	111.36
12	Am	45	VAL	N-CA-C	-6.68	102.70	111.05
51	A4	43	TYR	N-CA-C	6.67	125.00	110.80
39	BS	44	LYS	N-CA-C	-6.67	107.02	114.62
57	BA	2405	G	C2'-C3'-O3'	6.66	119.49	109.50
38	BR	58	GLY	N-CA-C	6.65	128.95	113.18
33	BJ	41	ARG	N-CA-C	-6.65	105.05	112.57
45	AY	8	LYS	N-CA-C	6.65	120.02	109.65
57	AA	221	A	C2'-C3'-O3'	6.65	119.47	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	BP	53	GLY	N-CA-C	-6.64	97.45	113.18
16	Bq	67	LYS	N-CA-C	-6.61	101.80	110.33
43	BW	98	LYS	N-CA-C	-6.61	96.86	108.23
39	BS	55	ALA	N-CA-C	-6.61	104.79	112.92
43	BW	92	ARG	N-CA-C	6.61	118.56	111.36
32	AI	50	ARG	CD-NE-CZ	6.60	133.64	124.40
37	BQ	124	LYS	N-CA-C	-6.59	104.98	113.16
45	AY	65	ALA	CA-C-N	6.59	128.08	119.84
45	AY	65	ALA	C-N-CA	6.59	128.08	119.84
31	AH	107	VAL	N-CA-C	6.58	116.36	106.42
12	Bm	45	VAL	N-CA-C	-6.58	102.83	111.05
16	Aq	67	LYS	N-CA-C	-6.57	101.85	110.33
33	AJ	94	VAL	N-CA-C	-6.57	104.06	113.07
11	Bl	38	THR	N-CA-C	-6.57	104.91	113.12
28	AE	125	GLY	CA-C-N	6.56	127.55	120.13
28	AE	125	GLY	C-N-CA	6.56	127.55	120.13
57	BA	512	G	C4'-C3'-O3'	-6.56	103.16	113.00
29	BF	83	PHE	N-CA-C	6.56	120.19	112.72
57	AA	512	G	C4'-C3'-O3'	-6.55	103.18	113.00
36	AP	53	GLY	N-CA-C	-6.54	97.67	113.18
3	Bd	62	GLN	N-CA-C	-6.54	104.19	111.71
57	BA	221	A	C2'-C3'-O3'	6.54	119.32	109.50
51	B4	43	TYR	N-CA-C	6.53	124.70	110.80
40	BT	124	ASP	N-CA-C	-6.52	105.47	113.50
3	Ad	62	GLN	N-CA-C	-6.52	104.21	111.71
36	BP	22	GLY	CA-C-N	6.52	127.99	119.84
36	BP	22	GLY	C-N-CA	6.52	127.99	119.84
35	AO	25	LEU	N-CA-C	6.51	121.57	112.72
48	B1	63	ALA	N-CA-C	-6.50	100.81	110.23
17	Ar	51	LEU	N-CA-C	6.50	118.08	109.83
43	AW	92	ARG	N-CA-C	6.49	118.43	111.36
57	AA	2405	G	C2'-C3'-O3'	6.49	119.23	109.50
1	Ab	153	ARG	N-CA-C	-6.49	104.04	114.09
38	AR	58	GLY	N-CA-C	6.49	128.55	113.18
34	BN	25	ARG	N-CA-C	-6.47	104.64	112.54
32	BI	57	ARG	N-CA-C	-6.46	105.39	113.28
11	Al	38	THR	N-CA-C	-6.46	105.04	113.12
29	AF	65	TRP	CA-C-N	6.46	127.92	119.84
29	AF	65	TRP	C-N-CA	6.46	127.92	119.84
29	BF	65	TRP	CA-C-N	6.46	127.91	119.84
29	BF	65	TRP	C-N-CA	6.46	127.91	119.84
32	BI	50	ARG	CD-NE-CZ	6.46	133.44	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	AE	118	LYS	N-CA-C	-6.46	97.05	110.80
36	BP	64	LYS	N-CA-C	-6.45	105.27	113.01
43	AW	24	ILE	N-CA-C	6.44	118.36	112.43
34	AN	25	ARG	N-CA-C	-6.44	104.69	112.54
33	AJ	77	PRO	N-CA-CB	6.43	110.12	102.60
41	AU	25	TRP	N-CA-C	6.43	119.60	109.96
35	BO	25	LEU	N-CA-C	6.43	121.46	112.72
22	Aa	1285	A	C2'-C3'-O3'	6.42	119.13	109.50
28	BE	39	PRO	N-CA-C	-6.41	105.69	114.80
28	BE	125	GLY	CA-C-N	6.40	127.36	120.13
28	BE	125	GLY	C-N-CA	6.40	127.36	120.13
30	AG	144	ILE	N-CA-C	6.37	118.56	108.87
33	BJ	77	PRO	N-CA-CB	6.37	109.94	103.25
38	AR	109	ALA	CA-C-N	6.37	126.13	119.76
38	AR	109	ALA	C-N-CA	6.37	126.13	119.76
57	AA	1053	C	N1-C1'-C2'	6.37	121.56	112.00
37	AQ	124	LYS	N-CA-C	-6.37	105.26	113.16
11	Al	7	ILE	N-CA-C	-6.35	104.31	110.72
34	AN	35	ARG	N-CA-C	-6.34	98.94	109.46
31	AH	100	GLY	N-CA-C	-6.33	100.72	112.37
29	AF	20	LEU	N-CA-C	6.33	116.43	108.45
46	BZ	151	HIS	CB-CA-C	-6.33	107.30	116.54
33	AJ	105	PRO	N-CA-CB	6.33	109.90	103.25
3	Bd	72	GLU	N-CA-C	-6.33	104.38	111.28
40	AT	124	ASP	N-CA-C	-6.32	105.72	113.50
17	Br	51	LEU	N-CA-C	6.32	117.86	109.83
11	Bl	7	ILE	N-CA-C	-6.32	104.34	110.72
11	Al	61	THR	N-CA-C	-6.32	104.48	111.36
33	AJ	69	PRO	N-CA-CB	6.32	109.88	103.25
17	Ar	39	VAL	N-CA-C	-6.31	104.49	110.42
38	AR	70	LEU	N-CA-C	-6.31	99.36	109.96
28	AE	93	VAL	N-CA-C	-6.30	106.04	113.42
28	AE	137	HIS	CA-C-N	6.30	125.87	119.19
28	AE	137	HIS	C-N-CA	6.30	125.87	119.19
29	BF	20	LEU	N-CA-C	6.29	116.38	108.45
52	A5	3	LYS	N-CA-C	6.29	117.42	108.74
16	Bq	57	VAL	N-CA-C	6.28	118.21	109.29
22	Ba	1201	A	C2'-C3'-O3'	6.28	118.92	109.50
27	AD	147	LEU	N-CA-C	-6.28	106.25	114.04
22	Aa	1201	A	C2'-C3'-O3'	6.28	118.92	109.50
29	BF	4	VAL	N-CA-C	6.27	115.38	106.53
28	BE	118	LYS	N-CA-C	-6.27	97.45	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	BZ	63	ASP	N-CA-C	-6.27	105.11	114.64
57	BA	1053	C	N1-C1'-C2'	6.27	121.40	112.00
22	Aa	484	G	C2'-C3'-O3'	6.27	118.90	109.50
33	AJ	129	PRO	N-CA-CB	6.26	109.83	103.25
22	Ba	1285	A	C2'-C3'-O3'	6.26	118.89	109.50
31	BH	100	GLY	N-CA-C	-6.26	100.85	112.37
3	Ad	72	GLU	N-CA-C	-6.25	104.47	111.28
28	AE	39	PRO	N-CA-C	-6.24	105.94	114.80
48	B1	43	TYR	CA-C-N	6.24	127.64	119.84
48	B1	43	TYR	C-N-CA	6.24	127.64	119.84
57	BA	790	C	C4'-C3'-O3'	6.24	118.76	109.40
25	Aw	17(A)	U	C2'-C3'-O3'	6.24	118.86	109.50
30	AG	15	VAL	N-CA-C	6.24	116.41	110.42
21	By	47	MET	CA-C-N	6.24	127.63	119.84
21	By	47	MET	C-N-CA	6.24	127.63	119.84
32	BI	50	ARG	NE-CZ-NH2	-6.23	113.60	119.20
32	BI	60	GLU	N-CA-C	-6.22	107.53	114.62
27	BD	147	LEU	N-CA-C	-6.21	106.34	114.04
7	Ah	44	PHE	N-CA-C	-6.20	105.88	113.50
36	BP	15	ARG	N-CA-C	6.20	120.14	107.69
36	AP	22	GLY	CA-C-N	6.19	127.58	119.84
36	AP	22	GLY	C-N-CA	6.19	127.58	119.84
28	AE	168	MET	N-CA-C	6.19	119.24	110.14
55	B8	38	GLY	N-CA-C	-6.19	105.04	113.27
27	AD	48	ARG	N-CA-C	6.18	118.28	110.24
22	Ba	484	G	C2'-C3'-O3'	6.18	118.77	109.50
39	AS	19	LYS	N-CA-C	-6.17	106.11	113.21
39	BS	19	LYS	N-CA-C	-6.17	106.11	113.21
57	BA	272(B)	G	C5'-C4'-C3'	6.17	125.26	116.00
28	BE	93	VAL	N-CA-C	-6.16	106.21	113.42
1	Ab	164	VAL	N-CA-C	6.16	117.98	108.44
30	BG	150	ASP	N-CA-C	-6.16	106.31	113.88
57	BA	945	A	N9-C1'-C2'	6.15	123.22	114.00
33	AJ	101	PRO	N-CA-CB	6.13	109.69	103.25
47	B0	38	VAL	N-CA-C	6.13	115.91	108.06
27	BD	267	SER	N-CA-C	-6.13	102.87	110.41
46	AZ	160	GLY	N-CA-C	-6.13	106.95	114.92
57	AA	784	A	C4'-C3'-O3'	-6.13	103.81	113.00
19	At	52	ALA	N-CA-C	-6.12	104.23	111.03
21	By	39	ILE	N-CA-C	-6.12	105.77	112.80
22	Aa	243	A	C2'-C3'-O3'	6.11	118.67	109.50
27	BD	14	ARG	N-CA-C	-6.10	103.97	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	AP	64	LYS	N-CA-C	-6.10	105.55	112.87
47	A0	38	VAL	N-CA-C	6.10	115.86	108.06
32	BI	103	ARG	N-CA-C	6.09	117.92	111.28
57	AA	272(B)	G	C5'-C4'-C3'	6.09	125.14	116.00
33	BJ	69	PRO	N-CA-CB	6.09	109.64	103.25
33	BJ	101	PRO	N-CA-CB	6.08	109.64	103.25
42	BV	25	LEU	N-CA-C	-6.08	98.37	108.34
29	AF	4	VAL	N-CA-C	6.07	115.09	106.53
57	AA	2126	A	C2'-C3'-O3'	6.07	118.60	109.50
57	AA	669	G	N9-C1'-C2'	6.07	121.10	112.00
44	BX	73	ARG	N-CA-C	-6.06	103.16	110.13
42	BV	36	PRO	N-CA-C	-6.05	105.03	113.81
16	Aq	57	VAL	N-CA-C	6.05	117.88	109.29
52	B5	3	LYS	N-CA-C	6.04	117.08	108.74
57	AA	669	G	C2'-C3'-O3'	-6.04	104.64	113.70
39	BS	103	GLU	CB-CA-C	-6.04	109.63	116.63
22	Ba	243	A	C2'-C3'-O3'	6.03	118.55	109.50
27	AD	259	THR	N-CA-C	6.03	121.15	113.55
36	BP	99	LEU	N-CA-C	-6.03	104.64	112.23
27	BD	259	THR	N-CA-C	6.02	121.14	113.55
31	BH	155	SER	N-CA-C	6.01	123.61	110.80
32	AI	60	GLU	N-CA-C	-6.01	107.77	114.62
39	AS	20	ARG	N-CA-C	6.00	117.98	108.67
28	BE	168	MET	N-CA-C	6.00	118.97	110.14
19	Bt	52	ALA	N-CA-C	-6.00	104.37	111.03
44	AX	5	TYR	N-CA-C	-6.00	105.83	113.02
7	Bh	44	PHE	N-CA-C	-5.99	106.14	113.50
29	BF	151	SER	N-CA-C	-5.98	105.07	112.90
28	AE	169	ASN	N-CA-C	5.98	119.64	111.39
32	AI	103	ARG	N-CA-C	5.97	117.79	111.28
56	A9	3	VAL	N-CA-C	5.97	116.89	108.17
57	AA	945	A	N9-C1'-C2'	5.97	122.96	114.00
57	AA	603	A	C2'-C3'-O3'	5.97	118.46	109.50
27	AD	196	VAL	N-CA-C	5.97	118.51	111.05
15	Ap	75	ARG	N-CA-C	-5.96	104.78	111.28
38	BR	109	ALA	CA-C-N	5.96	125.72	119.76
38	BR	109	ALA	C-N-CA	5.96	125.72	119.76
55	A8	54	GLU	N-CA-C	-5.95	104.13	111.75
44	AX	73	ARG	N-CA-C	-5.95	103.29	110.13
46	AZ	113	ALA	N-CA-C	-5.95	104.89	113.21
31	AH	155	SER	N-CA-C	5.94	123.45	110.80
57	AA	2191	G	C2'-C3'-O3'	5.94	122.61	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AJ	33	PRO	N-CA-CB	5.93	109.48	103.25
3	Ad	108	LEU	N-CA-C	-5.93	103.82	113.19
27	AD	229	VAL	CB-CA-C	-5.93	102.97	112.16
57	BA	669	G	C2'-C3'-O3'	-5.93	104.81	113.70
37	AQ	132	VAL	N-CA-C	5.92	117.23	108.65
48	A1	78	LYS	N-CA-C	-5.92	104.83	111.28
22	Ba	250	A	C2'-C3'-O3'	5.92	118.37	109.50
4	Be	69	VAL	CA-C-N	5.91	127.23	119.84
4	Be	69	VAL	C-N-CA	5.91	127.23	119.84
6	Bg	143	ARG	N-CA-C	-5.91	104.75	111.14
42	AV	20	LEU	N-CA-C	-5.91	103.08	108.75
21	By	46	GLY	N-CA-C	5.91	115.59	110.21
39	BS	20	ARG	N-CA-C	5.91	117.92	108.41
41	BU	25	TRP	N-CA-C	5.90	119.15	109.76
29	AF	6	VAL	N-CA-C	5.90	117.39	107.18
55	A8	38	GLY	N-CA-C	-5.90	105.42	113.27
36	BP	57	THR	CA-C-N	5.89	132.80	121.54
36	BP	57	THR	C-N-CA	5.89	132.80	121.54
27	BD	196	VAL	N-CA-C	5.89	118.42	111.05
29	AF	83	PHE	N-CA-C	5.89	119.44	112.72
30	AG	31	VAL	N-CA-C	-5.89	104.36	109.19
4	Ae	69	VAL	CA-C-N	5.89	127.20	119.84
4	Ae	69	VAL	C-N-CA	5.89	127.20	119.84
36	BP	71	VAL	N-CA-C	5.88	121.59	108.88
33	BJ	129	PRO	N-CA-CB	5.88	109.43	103.25
2	Ac	9	GLY	N-CA-C	-5.88	107.87	114.40
12	Bm	90	LEU	N-CA-C	-5.88	101.71	110.23
9	Aj	80	LYS	N-CA-C	-5.88	105.94	113.23
21	By	13	LYS	N-CA-C	-5.87	106.07	113.18
22	Ba	1531	A	C4'-C3'-O3'	5.86	121.79	113.00
3	Bd	108	LEU	N-CA-C	-5.86	103.83	113.50
17	Br	39	VAL	N-CA-C	-5.86	104.91	110.42
39	AS	17	ARG	N-CA-C	-5.86	106.11	113.20
9	Aj	81	THR	N-CA-C	-5.86	103.61	112.04
44	BX	5	TYR	N-CA-C	-5.85	106.00	113.02
30	BG	19	LEU	N-CA-C	5.85	118.61	111.82
29	BF	195	ASP	N-CA-C	-5.85	101.75	110.23
34	BN	35	ARG	N-CA-C	-5.85	99.75	109.46
27	BD	155	LEU	N-CA-C	5.84	118.43	108.90
47	A0	22	GLY	N-CA-C	5.84	119.17	111.52
47	A0	46	LYS	CA-C-N	5.84	125.77	119.76
47	A0	46	LYS	C-N-CA	5.84	125.77	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	AS	103	GLU	CB-CA-C	-5.83	109.87	116.63
52	B5	46	CYS	N-CA-C	5.83	119.70	108.45
57	BA	2126	A	C2'-C3'-O3'	5.83	118.24	109.50
57	BA	748	G	N9-C1'-C2'	5.83	120.74	112.00
57	AA	494	G	C5'-C4'-C3'	-5.82	107.27	116.00
46	BZ	152	ALA	N-CA-C	5.82	123.20	110.80
56	B9	3	VAL	N-CA-C	5.82	116.67	108.17
38	BR	10	LEU	N-CA-C	5.82	117.61	107.49
12	Bm	93	ARG	N-CA-C	-5.81	105.68	112.89
29	BF	12	LEU	N-CA-C	-5.80	106.24	113.55
22	Ba	509	A	C2'-C3'-O3'	5.80	122.41	113.70
46	AZ	109	ALA	N-CA-C	-5.80	105.92	112.87
6	Ag	143	ARG	N-CA-C	-5.79	104.89	111.14
31	AH	167	GLU	N-CA-C	5.78	118.69	110.24
15	Bp	75	ARG	N-CA-C	-5.78	104.98	111.28
57	BA	2191	G	C2'-C3'-O3'	5.78	122.37	113.70
29	AF	154	VAL	N-CA-C	5.78	117.07	108.46
38	BR	12	ARG	N-CA-C	-5.78	98.50	110.80
57	BA	2542	A	C4'-C3'-O3'	-5.78	104.34	113.00
22	Aa	250	A	C2'-C3'-O3'	5.77	118.16	109.50
47	B0	46	LYS	CA-C-N	5.76	125.70	119.76
47	B0	46	LYS	C-N-CA	5.76	125.70	119.76
9	Bj	80	LYS	N-CA-C	-5.76	106.09	113.23
1	Bb	77	ALA	N-CA-C	5.75	116.65	108.54
8	Ai	72	GLY	N-CA-C	-5.75	105.41	112.77
47	B0	22	GLY	N-CA-C	5.75	119.05	111.52
55	B8	54	GLU	N-CA-C	-5.74	104.41	111.75
46	BZ	138	GLU	N-CA-C	5.73	118.02	109.25
9	Bj	81	THR	N-CA-C	-5.73	103.78	112.04
57	BA	1294	U	C5'-C4'-C3'	-5.73	107.41	116.00
57	AA	1365	A	C5'-C4'-C3'	5.72	124.59	116.00
34	BN	128	HIS	CA-C-N	5.72	126.99	119.84
34	BN	128	HIS	C-N-CA	5.72	126.99	119.84
57	BA	669	G	N9-C1'-C2'	5.71	120.57	112.00
43	BW	24	ILE	N-CA-C	5.71	117.68	112.43
43	BW	31	GLU	N-CA-C	-5.71	105.06	111.28
42	BV	20	LEU	N-CA-C	-5.71	103.27	108.75
46	BZ	124	ILE	N-CA-C	5.71	116.50	108.17
1	Ab	170	GLU	N-CA-C	-5.70	103.93	112.54
57	AA	748	G	N9-C1'-C2'	5.70	120.55	112.00
17	Br	84	LYS	N-CA-C	5.70	118.33	110.35
30	BG	78	SER	N-CA-C	-5.70	105.58	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	AA	331	A	C4'-C3'-O3'	5.70	117.95	109.40
36	AP	71	VAL	N-CA-C	5.70	121.18	108.88
29	AF	12	LEU	N-CA-C	-5.69	106.38	113.55
29	BF	197	ASP	N-CA-C	-5.69	105.83	112.89
43	AW	31	GLU	N-CA-C	-5.69	105.08	111.28
36	AP	57	THR	CA-C-N	5.69	132.41	121.54
36	AP	57	THR	C-N-CA	5.69	132.41	121.54
34	AN	128	HIS	CA-C-N	5.68	126.94	119.84
34	AN	128	HIS	C-N-CA	5.68	126.94	119.84
57	BA	1987	G	C5'-C4'-C3'	-5.68	107.48	116.00
29	BF	6	VAL	N-CA-C	5.68	117.01	107.18
10	Bk	38	ASN	CA-C-N	5.68	126.94	119.84
10	Bk	38	ASN	C-N-CA	5.68	126.94	119.84
36	AP	99	LEU	N-CA-C	-5.67	105.08	112.23
27	BD	48	ARG	N-CA-C	5.67	118.06	110.35
22	Aa	1498	U	N1-C1'-C2'	5.67	122.50	114.00
1	Bb	156	LYS	N-CA-C	-5.67	106.17	112.57
27	BD	136	ILE	CA-C-N	5.66	126.92	119.84
27	BD	136	ILE	C-N-CA	5.66	126.92	119.84
30	AG	55	LYS	N-CA-C	-5.66	105.26	111.82
57	AA	1459	G	N9-C1'-C2'	5.66	120.48	112.00
1	Bb	170	GLU	N-CA-C	-5.65	104.01	112.54
34	BN	122	VAL	N-CA-C	5.65	116.72	108.53
30	AG	57	ALA	N-CA-C	-5.65	106.06	113.12
35	AO	96	THR	N-CA-C	-5.64	106.21	114.39
27	BD	229	VAL	CB-CA-C	-5.64	103.42	112.16
37	BQ	132	VAL	N-CA-C	5.64	116.83	108.65
7	Bh	19	VAL	N-CA-C	-5.63	106.82	112.17
27	AD	69	ARG	N-CA-C	5.63	120.21	113.23
57	BA	1365	A	C5'-C4'-C3'	5.62	124.44	116.00
38	AR	12	ARG	N-CA-C	-5.62	98.82	110.80
1	Bb	87	ARG	N-CA-C	-5.62	106.46	113.15
17	Br	69	THR	N-CA-C	-5.62	105.70	113.18
38	AR	10	LEU	N-CA-C	5.62	117.26	107.49
22	Ba	832	C	N1-C1'-C2'	-5.62	105.58	114.00
55	B8	60	LEU	N-CA-C	-5.62	98.84	110.80
57	AA	1294	U	C5'-C4'-C3'	-5.61	107.58	116.00
22	Aa	832	C	N1-C1'-C2'	-5.61	105.58	114.00
16	Bq	13	ASP	N-CA-C	-5.61	104.66	113.02
34	BN	91	LEU	N-CA-C	-5.61	105.07	111.07
57	BA	494	G	C5'-C4'-C3'	-5.60	107.60	116.00
36	AP	15	ARG	N-CA-C	5.60	118.94	107.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	BF	82	ILE	CB-CA-C	-5.60	104.21	111.88
57	AA	1443	G	C5'-C4'-C3'	-5.60	107.61	116.00
57	AA	2542	A	C4'-C3'-O3'	-5.59	104.61	113.00
2	Ac	21	ARG	N-CA-C	5.59	117.51	108.34
38	BR	111	LEU	N-CA-C	5.58	118.32	109.50
57	BA	1493	C	N1-C1'-C2'	5.58	122.37	114.00
48	B1	7	ILE	N-CA-C	5.58	116.42	111.90
1	Ab	87	ARG	N-CA-C	-5.57	106.52	113.15
46	AZ	56	VAL	N-CA-C	5.57	116.77	109.58
55	A8	47	LYS	N-CA-C	5.57	115.47	108.45
41	BU	92	ARG	N-CA-C	-5.57	98.93	110.80
29	BF	194	MET	N-CA-C	5.57	118.48	109.40
10	Ak	38	ASN	CA-C-N	5.57	126.80	119.84
10	Ak	38	ASN	C-N-CA	5.57	126.80	119.84
28	AE	62	PRO	N-CA-C	-5.57	101.00	112.47
48	A1	64	ALA	N-CA-C	-5.57	105.31	111.71
48	B1	91	LYS	N-CA-C	-5.57	104.23	111.02
17	Ar	84	LYS	N-CA-C	5.56	118.14	110.35
27	AD	210	GLY	CA-C-O	-5.56	116.47	122.47
53	A6	38	LYS	N-CA-C	5.55	118.29	109.96
1	Ab	34	ALA	N-CA-C	5.55	115.44	108.45
50	B3	11	SER	CA-C-N	5.55	126.03	120.04
50	B3	11	SER	C-N-CA	5.55	126.03	120.04
3	Bd	109	GLY	N-CA-C	5.54	126.32	113.18
9	Bj	56	HIS	N-CA-C	-5.54	98.99	110.80
21	By	19	GLY	N-CA-C	5.54	117.85	111.36
27	AD	198	ASN	N-CA-C	-5.54	105.15	112.24
53	A6	29	ASN	N-CA-C	5.53	117.12	111.14
31	BH	167	GLU	N-CA-C	5.53	118.32	110.24
57	BA	1049	C	N1-C1'-C2'	5.53	120.30	112.00
1	Ab	156	LYS	N-CA-C	-5.53	106.32	112.57
32	AI	58	LEU	N-CA-C	-5.53	106.43	114.12
2	Bc	9	GLY	N-CA-C	-5.53	108.26	114.40
35	AO	47	ILE	CA-C-N	5.53	126.75	119.84
35	AO	47	ILE	C-N-CA	5.53	126.75	119.84
50	A3	11	SER	CA-C-N	5.52	126.00	120.04
50	A3	11	SER	C-N-CA	5.52	126.00	120.04
32	BI	50	ARG	NE-CZ-NH1	5.52	127.02	121.50
57	BA	603	A	C2'-C3'-O3'	5.52	117.77	109.50
28	BE	62	PRO	N-CA-C	-5.51	101.11	112.47
33	BJ	17	LEU	N-CA-C	-5.51	106.40	113.02
32	BI	133	HIS	N-CA-C	5.51	121.99	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	Ai	3	GLN	N-CA-C	5.51	117.77	109.23
29	BF	154	VAL	N-CA-C	5.50	116.66	108.46
57	BA	1459	G	N9-C1'-C2'	5.50	120.26	112.00
1	Ab	118	LEU	N-CA-C	-5.50	104.81	112.45
32	BI	58	LEU	N-CA-C	-5.49	106.49	114.12
7	Ah	39	LEU	N-CA-C	-5.48	105.46	111.82
33	BJ	72	ASP	N-CA-C	5.48	117.60	110.53
8	Bi	3	GLN	N-CA-C	5.47	117.71	109.23
31	BH	154	PRO	N-CA-C	5.47	123.74	112.47
16	Aq	13	ASP	N-CA-C	-5.47	104.87	113.02
17	Ar	69	THR	N-CA-C	-5.47	105.91	113.18
50	B3	9	VAL	N-CA-C	5.47	117.46	112.43
6	Bg	145	ALA	N-CA-C	-5.47	103.28	110.33
36	BP	71	VAL	CA-C-N	-5.47	113.01	119.84
36	BP	71	VAL	C-N-CA	-5.47	113.01	119.84
39	BS	17	ARG	N-CA-C	-5.47	106.58	113.20
53	B6	38	LYS	N-CA-C	5.47	118.16	109.96
1	Ab	77	ALA	N-CA-C	5.46	116.25	108.54
55	A8	60	LEU	N-CA-C	-5.46	99.16	110.80
54	B7	6	GLN	CA-C-N	5.46	126.67	119.84
54	B7	6	GLN	C-N-CA	5.46	126.67	119.84
22	Aa	1049	U	C2'-C3'-O3'	5.46	117.69	109.50
27	AD	14	ARG	N-CA-C	-5.46	104.97	111.69
22	Ba	1049	U	C2'-C3'-O3'	5.46	117.69	109.50
37	BQ	125	LEU	CA-C-N	5.46	126.67	119.84
37	BQ	125	LEU	C-N-CA	5.46	126.67	119.84
47	B0	28	GLY	N-CA-C	-5.46	108.58	115.08
39	AS	43	GLU	N-CA-C	-5.46	105.42	113.72
8	Bi	72	GLY	N-CA-C	-5.46	105.78	112.77
27	BD	193	VAL	N-CA-C	5.46	117.49	109.63
52	A5	46	CYS	N-CA-C	5.45	118.97	108.45
16	Bq	27	PHE	CA-C-N	5.45	125.62	119.90
16	Bq	27	PHE	C-N-CA	5.45	125.62	119.90
39	BS	18	ILE	N-CA-C	-5.45	106.52	113.22
35	BO	47	ILE	CA-C-N	5.45	126.65	119.84
35	BO	47	ILE	C-N-CA	5.45	126.65	119.84
33	AJ	97	ALA	N-CA-C	-5.44	106.64	113.28
35	AO	40	VAL	N-CA-C	-5.44	100.53	108.97
1	Bb	118	LEU	N-CA-C	-5.44	104.89	112.45
40	BT	100	TYR	N-CA-C	-5.44	106.60	113.18
36	AP	71	VAL	CA-C-N	-5.44	113.04	119.84
36	AP	71	VAL	C-N-CA	-5.44	113.04	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	AR	81	ASP	N-CA-C	5.44	119.02	112.93
1	Bb	34	ALA	N-CA-C	5.44	115.30	108.45
28	BE	169	ASN	N-CA-C	5.44	118.89	111.39
46	BZ	61	LEU	CA-C-N	5.43	126.63	119.84
46	BZ	61	LEU	C-N-CA	5.43	126.63	119.84
41	AU	92	ARG	N-CA-C	-5.43	99.23	110.80
34	AN	91	LEU	N-CA-C	-5.43	105.26	111.07
33	AJ	16	ASN	N-CA-C	-5.43	106.44	112.57
22	Aa	509	A	C2'-C3'-O3'	5.42	121.83	113.70
2	Bc	21	ARG	N-CA-C	5.42	117.23	108.34
30	AG	5	VAL	N-CA-C	5.42	115.14	108.53
29	AF	195	ASP	N-CA-C	-5.42	102.37	110.23
17	Br	70	ILE	N-CA-C	-5.42	104.59	110.23
21	By	11	ALA	N-CA-C	-5.42	106.04	113.30
57	BA	784	A	C4'-C3'-O3'	-5.42	104.87	113.00
57	BA	2278	A	C5'-C4'-C3'	5.42	124.12	116.00
27	BD	99	ASP	N-CA-C	-5.41	106.37	112.87
31	BH	101	ARG	N-CA-C	-5.41	106.52	113.01
38	AR	111	LEU	N-CA-C	5.40	118.03	109.50
6	Bg	50	ILE	N-CA-C	-5.40	105.11	110.62
7	Bh	95	VAL	N-CA-C	5.40	115.48	108.35
27	BD	56	GLY	N-CA-C	-5.39	102.54	112.62
27	BD	69	ARG	N-CA-C	5.39	119.86	113.28
27	AD	136	ILE	CA-C-N	5.39	126.58	119.84
27	AD	136	ILE	C-N-CA	5.39	126.58	119.84
27	BD	198	ASN	N-CA-C	-5.39	105.34	112.24
55	B8	47	LYS	N-CA-C	5.39	115.24	108.45
36	AP	24	GLY	N-CA-C	-5.39	100.41	113.18
40	AT	100	TYR	N-CA-C	-5.39	106.66	113.18
1	Bb	23	ARG	N-CA-C	-5.39	104.49	111.71
3	Ad	109	GLY	N-CA-C	5.38	125.94	113.18
37	AQ	125	LEU	CA-C-N	5.38	126.57	119.84
37	AQ	125	LEU	C-N-CA	5.38	126.57	119.84
28	BE	88	GLY	N-CA-C	5.38	122.54	114.95
53	B6	29	ASN	N-CA-C	5.38	116.95	111.14
34	BN	125	GLY	N-CA-C	5.38	123.31	112.34
57	BA	128	C	C2'-C3'-O3'	5.38	121.77	113.70
37	AQ	97	VAL	N-CA-C	5.37	115.05	106.88
7	Ah	19	VAL	N-CA-C	-5.37	107.07	112.17
29	AF	194	MET	N-CA-C	5.37	118.16	109.40
6	Ag	50	ILE	N-CA-C	-5.37	105.15	110.62
57	BA	1443	G	C5'-C4'-C3'	-5.37	107.95	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	AA	1049	C	N1-C1'-C2'	5.36	120.05	112.00
27	BD	146	GLU	N-CA-C	-5.36	103.81	110.41
36	AP	128	HIS	N-CA-C	-5.36	107.11	113.97
40	AT	29	ARG	CA-C-N	5.36	131.61	121.97
40	AT	29	ARG	C-N-CA	5.36	131.61	121.97
31	AH	67	LEU	N-CA-C	-5.36	105.10	111.69
31	AH	154	PRO	N-CA-C	5.34	123.48	112.47
2	Bc	39	ILE	N-CA-C	-5.34	105.88	110.74
2	Ac	139	GLN	N-CA-C	-5.34	106.93	113.50
9	Aj	56	HIS	N-CA-C	-5.34	99.42	110.80
57	BA	2422	A	C2'-C3'-O3'	5.34	121.71	113.70
47	A0	28	GLY	N-CA-C	-5.34	108.73	115.08
46	AZ	19	ARG	N-CA-C	-5.34	105.63	111.82
32	BI	93	THR	N-CA-C	-5.34	101.18	108.38
19	Bt	14	LYS	N-CA-C	-5.33	104.92	111.75
57	BA	1598	C	C5'-C4'-C3'	-5.33	108.00	116.00
29	AF	151	SER	N-CA-C	-5.33	105.04	112.45
46	AZ	61	LEU	CA-C-N	5.33	126.50	119.84
46	AZ	61	LEU	C-N-CA	5.33	126.50	119.84
39	BS	43	GLU	N-CA-C	-5.33	105.62	113.72
1	Ab	23	ARG	N-CA-C	-5.33	104.57	111.71
57	AA	784	A	N9-C1'-C2'	5.33	119.99	112.00
49	B2	40	SER	N-CA-C	5.32	116.77	110.97
27	AD	193	VAL	N-CA-C	5.32	117.29	109.63
3	Bd	97	LEU	N-CA-C	-5.32	106.92	113.41
6	Ag	89	MET	N-CA-C	5.32	116.29	107.73
6	Ag	145	ALA	N-CA-C	-5.32	103.47	110.33
2	Bc	139	GLN	N-CA-C	-5.31	106.97	113.50
35	BO	96	THR	N-CA-C	-5.30	106.70	114.39
17	Ar	70	ILE	N-CA-C	-5.30	104.72	110.23
17	Br	51	LEU	CA-C-N	5.30	126.04	120.11
17	Br	51	LEU	C-N-CA	5.30	126.04	120.11
6	Bg	89	MET	N-CA-C	5.29	116.25	107.73
41	BU	31	SER	N-CA-C	5.29	116.93	108.41
57	AA	1987	G	C5'-C4'-C3'	-5.29	108.07	116.00
57	AA	2557	G	C5'-C4'-C3'	-5.29	108.07	116.00
7	Bh	39	LEU	N-CA-C	-5.29	105.57	112.23
28	AE	44	TYR	N-CA-C	5.28	122.04	110.80
55	B8	48	PHE	N-CA-C	5.28	122.04	110.80
27	AD	56	GLY	N-CA-C	-5.27	102.57	112.22
36	BP	116	GLY	N-CA-C	5.27	123.55	112.17
18	As	36	ARG	N-CA-C	-5.26	105.96	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	AA	1493	C	N1-C1'-C2'	5.26	121.89	114.00
40	BT	69	GLY	N-CA-C	5.26	118.60	112.50
22	Aa	1529	G	N9-C1'-C2'	5.26	121.89	114.00
35	BO	40	VAL	N-CA-C	-5.26	100.82	108.97
26	AC	186	LEU	N-CA-C	-5.26	105.14	112.45
39	AS	18	ILE	N-CA-C	-5.25	106.76	113.22
47	A0	14	ARG	N-CA-C	5.25	118.23	110.46
1	Bb	108	ILE	N-CA-C	-5.25	104.40	111.44
22	Aa	115	G	C4'-C3'-C2'	5.25	107.85	102.60
28	BE	135	HIS	N-CA-C	5.25	116.68	111.07
49	B2	62	THR	N-CA-C	-5.25	105.47	111.14
27	AD	146	GLU	N-CA-C	-5.24	103.96	110.41
45	BY	75	ILE	N-CA-C	5.24	115.45	108.27
31	BH	67	LEU	N-CA-C	-5.24	105.24	111.69
57	AA	2689	U	C2'-C3'-O3'	5.24	117.36	109.50
48	B1	62	VAL	N-CA-C	5.24	117.40	108.86
21	By	94	ILE	CB-CA-C	-5.23	107.26	111.71
46	BZ	44	PHE	N-CA-C	-5.23	105.66	111.36
22	Ba	328	C	C2'-C3'-O3'	5.22	117.33	109.50
57	BA	784	A	N9-C1'-C2'	5.22	119.83	112.00
21	By	68	ASP	N-CA-C	-5.22	105.77	111.82
57	BA	332	A	C2'-C3'-O3'	5.22	117.33	109.50
57	AA	1970	A	C5'-C4'-O4'	5.21	116.92	109.10
7	Bh	117	GLY	N-CA-C	5.21	117.35	112.04
36	BP	128	HIS	N-CA-C	-5.21	107.30	113.97
1	Ab	200	ILE	N-CA-C	5.20	117.34	109.12
27	AD	209	ALA	N-CA-C	-5.20	106.08	112.90
48	A1	17	SER	N-CA-C	-5.20	100.03	108.41
40	BT	29	ARG	CA-C-N	5.20	131.34	121.97
40	BT	29	ARG	C-N-CA	5.20	131.34	121.97
55	A8	48	PHE	N-CA-C	5.20	121.88	110.80
36	AP	116	GLY	N-CA-C	5.20	123.40	112.17
35	BO	90	GLN	N-CA-C	-5.20	106.89	113.18
27	AD	155	LEU	N-CA-C	5.20	117.37	108.90
28	AE	88	GLY	N-CA-C	5.20	122.28	114.95
26	BC	186	LEU	N-CA-C	-5.19	105.23	112.45
17	Ar	51	LEU	CA-C-N	5.19	125.92	120.11
17	Ar	51	LEU	C-N-CA	5.19	125.92	120.11
28	BE	198	VAL	N-CA-C	5.18	115.04	107.37
39	BS	87	PHE	N-CA-C	5.18	116.76	108.41
29	AF	91	GLY	CA-C-N	5.18	124.94	119.76
29	AF	91	GLY	C-N-CA	5.18	124.94	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bb	200	ILE	N-CA-C	5.18	117.31	109.12
41	AU	50	ARG	N-CA-C	-5.18	105.28	111.03
21	By	25	GLN	N-CA-C	-5.18	105.55	111.14
6	Ag	61	VAL	N-CA-C	-5.18	105.36	111.00
45	AY	87	LYS	N-CA-C	5.18	116.61	110.97
14	Bo	68	ARG	N-CA-C	-5.18	105.72	111.36
37	BQ	97	VAL	N-CA-C	5.18	114.75	106.88
21	Ay	5	LEU	N-CA-C	5.17	117.20	110.53
2	Bc	71	ALA	N-CA-C	-5.17	106.80	113.01
22	Aa	328	C	C2'-C3'-O3'	5.17	117.25	109.50
32	AI	133	HIS	N-CA-C	5.17	121.23	109.81
27	AD	26	LYS	N-CA-C	-5.17	104.56	111.02
34	AN	125	GLY	N-CA-C	5.17	122.88	112.34
3	Bd	198	VAL	N-CA-C	5.17	116.10	108.45
42	AV	9	GLY	N-CA-C	-5.17	105.98	114.76
41	BU	10	ARG	N-CA-C	5.17	116.72	111.14
17	Ar	32	ARG	N-CA-C	-5.16	107.03	113.38
27	AD	203	ASN	N-CA-C	5.16	119.56	113.16
48	A1	25	LYS	N-CA-C	-5.16	106.83	113.23
36	AP	30	THR	N-CA-C	5.15	117.83	109.79
17	Br	53	ARG	N-CA-C	-5.15	106.50	112.89
31	BH	75	ALA	N-CA-C	-5.14	105.85	111.82
10	Ak	127	LYS	N-CA-C	-5.14	105.66	112.34
10	Bk	18	ARG	N-CA-C	5.14	117.00	109.24
40	BT	108	ARG	N-CA-C	-5.14	105.90	113.61
37	AQ	28	ALA	N-CA-C	5.14	118.85	112.58
40	BT	110	ILE	CB-CA-C	-5.14	105.40	111.97
57	BA	310	A	C5'-C4'-C3'	-5.14	107.49	115.20
22	Aa	60	A	C4'-C3'-O3'	5.13	117.10	109.40
41	BU	70	ARG	N-CA-C	-5.13	105.86	111.82
27	AD	99	ASP	N-CA-C	-5.13	106.71	112.87
30	AG	143	GLU	N-CA-C	5.13	117.54	111.33
29	AF	82	ILE	CB-CA-C	-5.13	104.85	111.88
52	B5	4	HIS	CA-C-N	-5.13	114.47	119.76
52	B5	4	HIS	C-N-CA	-5.13	114.47	119.76
57	BA	629	G	C5'-C4'-C3'	-5.13	108.30	116.00
33	AJ	84	GLU	N-CA-C	5.13	116.64	108.79
57	AA	1541	G	N9-C1'-C2'	5.13	119.69	112.00
37	BQ	28	ALA	N-CA-C	5.13	118.83	112.58
57	BA	481	G	N9-C1'-C2'	5.12	119.69	112.00
33	BJ	28	ASN	N-CA-C	5.12	117.50	107.57
21	Ay	72	VAL	N-CA-C	5.12	116.34	108.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	A7	17	GLY	N-CA-C	5.12	117.82	111.93
57	AA	964	C	C5'-C4'-C3'	-5.12	108.33	116.00
37	BQ	104	PHE	N-CA-C	5.12	117.74	109.40
48	B1	93	GLU	N-CA-C	5.12	116.54	111.07
16	Aq	27	PHE	CA-C-N	5.11	125.27	119.90
16	Aq	27	PHE	C-N-CA	5.11	125.27	119.90
19	At	14	LYS	N-CA-C	-5.11	105.21	111.75
49	A2	61	LEU	N-CA-C	-5.11	105.60	111.07
22	Ba	920	U	C5'-C4'-C3'	-5.11	108.33	116.00
2	Ac	39	ILE	N-CA-C	-5.11	106.09	110.74
40	AT	14	TYR	N-CA-C	-5.11	105.95	113.61
3	Ad	50	ARG	CA-C-N	5.11	125.26	119.90
3	Ad	50	ARG	C-N-CA	5.11	125.26	119.90
11	Al	109	GLY	N-CA-C	-5.11	104.63	112.85
57	AA	906	G	C5'-C4'-C3'	-5.11	108.34	116.00
57	BA	2557	G	C5'-C4'-C3'	-5.10	108.35	116.00
30	AG	29	TRP	N-CA-C	-5.10	106.27	113.20
34	AN	122	VAL	N-CA-C	5.10	115.92	108.53
29	BF	100	THR	N-CA-C	5.10	117.27	109.62
3	Ad	97	LEU	N-CA-C	-5.09	107.19	113.41
57	BA	906	G	C5'-C4'-C3'	-5.09	108.36	116.00
57	BA	2689	U	C2'-C3'-O3'	5.09	117.14	109.50
17	Ar	53	ARG	N-CA-C	-5.09	106.58	112.89
31	AH	75	ALA	N-CA-C	-5.09	105.91	111.82
48	A1	18	ILE	N-CA-C	5.09	115.91	108.58
10	Ak	18	ARG	N-CA-C	5.09	116.81	109.07
44	BX	36	LYS	N-CA-C	-5.09	106.17	112.38
12	Bm	101	GLN	N-CA-C	5.09	115.00	108.34
57	AA	1598	C	C5'-C4'-C3'	-5.09	108.37	116.00
27	BD	26	LYS	N-CA-C	-5.09	104.66	111.02
29	AF	197	ASP	N-CA-C	-5.08	106.58	112.89
11	Al	105	TYR	CB-CA-C	-5.08	110.73	116.63
51	A4	14	ILE	N-CA-C	5.08	113.92	106.55
27	BD	209	ALA	N-CA-C	-5.08	106.24	112.90
22	Ba	119	A	C2'-C3'-O3'	5.08	117.12	109.50
36	BP	40	SER	CA-C-N	5.08	129.84	123.03
36	BP	40	SER	C-N-CA	5.08	129.84	123.03
27	BD	60	ARG	N-CA-C	5.08	116.65	108.32
54	B7	9	ARG	N-CA-C	5.08	116.50	111.07
22	Aa	920	U	C5'-C4'-C3'	-5.08	108.38	116.00
57	AA	2282	G	C2'-C3'-O3'	5.08	117.11	109.50
57	BA	614(C)	A	C2'-C3'-O3'	5.07	117.11	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	Ai	86	VAL	N-CA-C	-5.07	105.20	112.35
22	Aa	438	G	C4'-C3'-O3'	5.07	117.00	109.40
6	Bg	61	VAL	N-CA-C	-5.07	105.48	111.00
22	Aa	119	A	C2'-C3'-O3'	5.07	117.10	109.50
8	Bi	86	VAL	N-CA-C	-5.06	105.21	112.35
31	AH	101	ARG	N-CA-C	-5.06	106.94	113.01
36	BP	30	THR	N-CA-C	5.06	117.68	109.79
37	BQ	50	ALA	N-CA-C	-5.06	105.86	112.23
38	BR	81	ASP	N-CA-C	5.06	118.59	112.93
46	BZ	69	THR	N-CA-C	5.06	117.63	110.50
32	BI	113	ARG	N-CA-C	5.05	118.53	110.70
29	AF	199	TRP	N-CA-C	-5.05	106.38	112.54
36	AP	40	SER	CA-C-N	5.05	129.79	123.03
36	AP	40	SER	C-N-CA	5.05	129.79	123.03
57	AA	2422	A	C2'-C3'-O3'	5.04	121.27	113.70
57	BA	1541	G	N9-C1'-C2'	5.04	119.57	112.00
9	Aj	76	ASN	CA-C-N	5.04	126.14	119.84
9	Aj	76	ASN	C-N-CA	5.04	126.14	119.84
45	BY	87	LYS	N-CA-C	5.04	116.47	110.97
27	AD	83	GLU	N-CA-C	5.04	117.52	109.81
3	Ad	198	VAL	N-CA-C	5.04	115.91	108.45
50	B3	43	ILE	N-CA-C	-5.04	106.17	113.07
1	Bb	25	ASN	CA-C-N	5.04	126.14	119.84
1	Bb	25	ASN	C-N-CA	5.04	126.14	119.84
40	AT	125	ARG	N-CA-C	-5.04	100.07	110.80
57	AA	2278	A	C5'-C4'-C3'	5.04	123.55	116.00
10	Bk	127	LYS	N-CA-C	-5.04	105.79	112.34
43	BW	61	ASN	N-CA-C	5.04	118.89	112.34
57	BA	2402	C	N1-C1'-C2'	5.04	119.55	112.00
9	Bj	76	ASN	CA-C-N	5.03	126.13	119.84
9	Bj	76	ASN	C-N-CA	5.03	126.13	119.84
47	B0	14	ARG	N-CA-C	5.03	117.91	110.46
3	Ad	12	CYS	N-CA-C	-5.03	105.31	111.75
57	AA	629	G	C5'-C4'-C3'	-5.03	108.46	116.00
2	Ac	71	ALA	N-CA-C	-5.02	106.98	113.01
54	A7	9	ARG	N-CA-C	5.02	116.44	111.07
22	Aa	346	G	N9-C1'-C2'	5.02	119.53	112.00
14	Ao	68	ARG	N-CA-C	-5.02	105.89	111.36
30	AG	162	THR	N-CA-C	-5.01	106.67	112.89
57	AA	2521	C	C5'-C4'-C3'	-5.01	108.49	116.00
3	Bd	12	CYS	N-CA-C	-5.01	105.34	111.75
21	By	52	LYS	N-CA-C	5.01	115.14	108.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	BA	964	C	C5'-C4'-C3'	-5.00	108.49	116.00
52	A5	4	HIS	CA-C-N	-5.00	114.61	119.76
52	A5	4	HIS	C-N-CA	-5.00	114.61	119.76
1	Ab	108	ILE	N-CA-C	-5.00	104.74	111.44
41	AU	45	TYR	N-CA-C	-5.00	105.74	111.14
30	BG	39	ILE	N-CA-C	-5.00	104.60	110.05
41	BU	50	ARG	N-CA-C	-5.00	105.48	111.03

All (7) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
57	AA	1799	G	C3'
57	AA	1819	A	C3'
57	AA	1820	U	C3'
22	Ba	1498	U	C3'
57	BA	1799	G	C3'
57	BA	1819	A	C3'
57	BA	1820	U	C3'

All (125) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
52	A5	51	TYR	Sidechain
57	AA	1040	C	Sidechain
57	AA	1112	G	Sidechain
57	AA	1288	U	Sidechain
57	AA	1332	G	Sidechain
57	AA	1378	A	Sidechain
57	AA	1393	A	Sidechain
57	AA	1396	U	Sidechain
57	AA	1416	G	Sidechain
57	AA	1491	G	Sidechain
57	AA	15	G	Sidechain
57	AA	1518	U	Sidechain
57	AA	1613	G	Sidechain
57	AA	1627	G	Sidechain
57	AA	1647	G	Sidechain
57	AA	1673	U	Sidechain
57	AA	1772	G	Sidechain
57	AA	1779	U	Sidechain
57	AA	1802	A	Sidechain
57	AA	1940	U	Sidechain

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Mol	Chain	Res	Type	Group
57	AA	1955	U	Sidechain
57	AA	2009	G	Sidechain
57	AA	2059	A	Sidechain
57	AA	2079	U	Sidechain
57	AA	2086	U	Sidechain
57	AA	2360	A	Sidechain
57	AA	2390	U	Sidechain
57	AA	2464	C	Sidechain
57	AA	249	C	Sidechain
57	AA	2506	U	Sidechain
57	AA	2517	C	Sidechain
57	AA	2542	A	Sidechain
57	AA	2665	A	Sidechain
57	AA	271(Q)	G	Sidechain
57	AA	2712	U	Sidechain
57	AA	272(B)	G	Sidechain
57	AA	2720	U	Sidechain
57	AA	2730	C	Sidechain
57	AA	2856	C	Sidechain
57	AA	387	U	Sidechain
57	AA	463	G	Sidechain
57	AA	467	G	Sidechain
57	AA	469	G	Sidechain
57	AA	562	U	Sidechain
57	AA	597	U	Sidechain
57	AA	642	G	Sidechain
57	AA	652	C	Sidechain
57	AA	746	A	Sidechain
57	AA	767	U	Sidechain
34	AN	4	TYR	Sidechain
43	AW	9	TYR	Sidechain
22	Aa	1077	G	Sidechain
22	Aa	1502	A	Sidechain
22	Aa	436	C	Sidechain
22	Aa	484	G	Sidechain
22	Aa	494	U	Sidechain
22	Aa	832	C	Sidechain
22	Aa	884	U	Sidechain
22	Aa	898	G	Sidechain
24	Av	4	G	Sidechain
21	Ay	56	ARG	Sidechain
52	B5	51	TYR	Sidechain

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Mol	Chain	Res	Type	Group
57	BA	1040	C	Sidechain
57	BA	1112	G	Sidechain
57	BA	1133	U	Sidechain
57	BA	1288	U	Sidechain
57	BA	1332	G	Sidechain
57	BA	1378	A	Sidechain
57	BA	1396	U	Sidechain
57	BA	1416	G	Sidechain
57	BA	1491	G	Sidechain
57	BA	15	G	Sidechain
57	BA	1518	U	Sidechain
57	BA	1613	G	Sidechain
57	BA	1623	G	Sidechain
57	BA	1647	G	Sidechain
57	BA	1673	U	Sidechain
57	BA	1772	G	Sidechain
57	BA	1802	A	Sidechain
57	BA	1829	A	Sidechain
57	BA	1940	U	Sidechain
57	BA	1955	U	Sidechain
57	BA	2000	G	Sidechain
57	BA	2009	G	Sidechain
57	BA	2086	U	Sidechain
57	BA	2320	A	Sidechain
57	BA	2360	A	Sidechain
57	BA	2457	U	Sidechain
57	BA	2464	C	Sidechain
57	BA	249	C	Sidechain
57	BA	2506	U	Sidechain
57	BA	2542	A	Sidechain
57	BA	2597	G	Sidechain
57	BA	2665	A	Sidechain
57	BA	271(Q)	G	Sidechain
57	BA	272(B)	G	Sidechain
57	BA	2739	U	Sidechain
57	BA	2856	C	Sidechain
57	BA	387	U	Sidechain
57	BA	463	G	Sidechain
57	BA	465	G	Sidechain
57	BA	467	G	Sidechain
57	BA	469	G	Sidechain
57	BA	597	U	Sidechain

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Mol	Chain	Res	Type	Group
57	BA	642	G	Sidechain
57	BA	652	C	Sidechain
57	BA	670	A	Sidechain
57	BA	746	A	Sidechain
57	BA	767	U	Sidechain
57	BA	779	U	Sidechain
57	BA	831	G	Sidechain
34	BN	4	TYR	Sidechain
43	BW	9	TYR	Sidechain
22	Ba	1077	G	Sidechain
22	Ba	1417	G	Sidechain
22	Ba	1498	U	Sidechain
22	Ba	1510	U	Sidechain
22	Ba	1512	U	Sidechain
22	Ba	436	C	Sidechain
22	Ba	494	U	Sidechain
22	Ba	587	G	Sidechain
22	Ba	832	C	Sidechain
22	Ba	884	U	Sidechain
22	Ba	898	G	Sidechain
24	Bv	4	G	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ab	1900	0	1951	303	0
1	Bb	1900	0	1951	305	0
2	Ac	1612	0	1677	231	0
2	Bc	1612	0	1677	225	0
3	Ad	1703	0	1763	243	0
3	Bd	1703	0	1764	239	0
4	Ae	1146	0	1207	156	0
4	Be	1146	0	1207	162	0
5	Af	843	0	857	89	0
5	Bf	843	0	857	94	0
6	Ag	1257	0	1296	146	0
6	Bg	1257	0	1296	149	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	Ah	1116	0	1177	149	0
7	Bh	1116	0	1177	149	0
8	Ai	1010	0	1037	180	0
8	Bi	1010	0	1037	187	0
9	Aj	794	0	840	197	0
9	Bj	794	0	840	187	0
10	Ak	885	0	904	121	0
10	Bk	885	0	904	125	0
11	Al	970	0	1057	125	0
11	Bl	970	0	1057	126	0
12	Am	937	0	992	223	0
12	Bm	937	0	990	225	0
13	An	492	0	530	74	0
13	Bn	492	0	530	70	0
14	Ao	734	0	771	80	0
14	Bo	734	0	771	81	0
15	Ap	700	0	720	78	0
15	Bp	700	0	720	81	0
16	Aq	823	0	891	65	0
16	Bq	823	0	891	65	0
17	Ar	574	0	644	77	0
17	Br	574	0	644	78	0
18	As	629	0	652	108	0
18	Bs	629	0	652	106	0
19	At	763	0	861	94	0
19	Bt	763	0	861	91	0
20	Au	208	0	221	20	0
20	Bu	208	0	221	21	0
21	Ay	782	0	827	128	0
21	By	782	0	827	146	0
22	Aa	32329	0	16316	1406	0
22	Ba	32329	0	16317	1421	0
23	Ax	260	0	129	15	0
23	Bx	260	0	129	25	0
24	Av	1641	0	839	46	0
24	Bv	1641	0	839	59	0
25	Aw	1640	0	837	76	0
25	Bw	1640	0	837	78	0
26	AC	937	0	957	122	0
26	BC	937	0	957	126	0
27	AD	2104	0	2182	333	0
27	BD	2104	0	2182	338	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	AE	1563	0	1629	274	0
28	BE	1563	0	1629	272	0
29	AF	1623	0	1677	230	0
29	BF	1623	0	1677	224	0
30	AG	1474	0	1533	354	0
30	BG	1474	0	1532	340	0
31	AH	1259	0	1326	201	0
31	BH	1259	0	1326	195	0
32	AI	1131	0	1218	254	0
32	BI	1131	0	1218	261	0
33	AJ	641	0	309	36	0
33	BJ	641	0	309	53	0
34	AN	1104	0	1180	158	0
34	BN	1104	0	1180	167	0
35	AO	933	0	996	103	0
35	BO	933	0	996	106	0
36	AP	1114	0	1187	308	0
36	BP	1114	0	1187	310	0
37	AQ	1112	0	1171	125	0
37	BQ	1112	0	1171	127	0
38	AR	960	0	1021	135	0
38	BR	960	0	1021	132	0
39	AS	770	0	832	148	0
39	BS	770	0	832	145	0
40	AT	1123	0	1181	249	0
40	BT	1123	0	1181	252	0
41	AU	958	0	1015	155	0
41	BU	958	0	1015	151	0
42	AV	779	0	852	152	0
42	BV	779	0	852	157	0
43	AW	896	0	953	97	0
43	BW	896	0	953	92	0
44	AX	725	0	778	94	0
44	BX	725	0	778	92	0
45	AY	775	0	870	198	0
45	BY	775	0	870	206	0
46	AZ	1467	0	1492	251	0
46	BZ	1467	0	1492	252	0
47	A0	662	0	688	78	0
47	B0	662	0	688	77	0
48	A1	731	0	808	105	0
48	B1	731	0	808	95	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	A2	598	0	653	102	0
49	B2	598	0	653	62	0
50	A3	467	0	523	39	0
50	B3	467	0	523	39	0
51	A4	450	0	449	92	0
51	B4	450	0	449	87	0
52	A5	427	0	445	85	0
52	B5	427	0	445	91	0
53	A6	433	0	461	118	0
53	B6	433	0	461	121	0
54	A7	409	0	454	40	0
54	B7	409	0	454	39	0
55	A8	507	0	576	115	0
55	B8	507	0	576	126	0
56	A9	307	0	336	19	0
56	B9	307	0	336	25	0
57	AA	61341	0	30925	2164	0
57	BA	61341	0	30926	2165	0
58	AB	2551	0	1295	140	0
58	BB	2551	0	1295	116	0
59	A4	1	0	0	0	0
59	A9	1	0	0	0	0
59	Ad	1	0	0	0	0
59	An	1	0	0	0	0
59	B4	1	0	0	0	0
59	B9	1	0	0	0	0
59	Bd	1	0	0	1	0
59	Bn	1	0	0	0	0
60	A1	2	0	0	0	0
60	A5	1	0	0	0	0
60	A7	1	0	0	0	0
60	AA	367	0	0	0	0
60	AB	3	0	0	0	0
60	AD	2	0	0	0	0
60	AF	1	0	0	0	0
60	AQ	1	0	0	0	0
60	AX	1	0	0	0	0
60	Aa	145	0	0	0	0
60	Ae	2	0	0	0	0
60	Av	5	0	0	0	0
60	Aw	1	0	0	0	0
60	B0	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	B5	2	0	0	0	0
60	B7	2	0	0	0	0
60	BA	365	0	0	0	0
60	BB	3	0	0	0	0
60	BD	2	0	0	0	0
60	BF	1	0	0	0	0
60	BO	1	0	0	0	0
60	BX	1	0	0	0	0
60	Ba	143	0	0	0	0
60	Bd	1	0	0	0	0
60	Bl	1	0	0	0	0
60	Bm	1	0	0	0	0
60	Bv	5	0	0	0	0
60	Bw	1	0	0	0	0
60	Bx	1	0	0	0	0
All	All	297230	0	201936	20960	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 42.

All (20960) 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)
12:Bm:65:LYS:CB	12:Bm:66:LEU:HB2	1.40	1.52
12:Am:3:ARG:NH2	30:AG:113:ARG:HG2	1.26	1.43
12:Bm:108:ARG:CZ	12:Bm:114:ARG:HG2	1.48	1.42
12:Am:69:GLU:HA	12:Am:70:LEU:C	1.41	1.39
12:Am:3:ARG:CD	30:AG:113:ARG:HH12	1.36	1.36
12:Bm:69:GLU:CB	12:Bm:72:ALA:HB3	1.60	1.30
12:Bm:69:GLU:HA	12:Bm:70:LEU:C	1.41	1.28
30:AG:106:LEU:O	30:AG:110:ALA:HB3	1.29	1.28
12:Am:66:LEU:N	12:Am:70:LEU:HB2	1.49	1.26
12:Am:65:LYS:CB	12:Am:66:LEU:HB2	1.62	1.26
12:Am:3:ARG:NH2	30:AG:113:ARG:CG	1.97	1.25
12:Am:91:ARG:HD3	18:As:81:ARG:NH2	1.55	1.19
12:Am:65:LYS:HA	12:Am:66:LEU:CG	1.73	1.19
12:Am:65:LYS:HA	12:Am:66:LEU:CB	1.71	1.18
27:AD:242:ARG:HH21	57:AA:1826:G:H4'	1.06	1.17
32:AI:118:LYS:HG2	32:AI:119:PRO:HD2	1.24	1.17
12:Am:65:LYS:CA	12:Am:66:LEU:HB2	1.70	1.16
40:BT:28:VAL:HG13	40:BT:46:GLU:HA	1.28	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1884:A:H2'	57:BA:1885:A:H5"	1.18	1.16
57:AA:1884:A:H2'	57:AA:1885:A:H5"	1.20	1.15
12:Am:63:THR:HG22	12:Am:64:TRP:H	1.09	1.15
57:BA:1747(A):G:H2'	57:BA:1748:G:H5"	1.25	1.15
8:Ai:55:ALA:HB1	8:Ai:58:HIS:HD2	1.10	1.14
30:AG:161:THR:HG22	30:AG:163:ALA:H	1.12	1.14
57:BA:612:C:H2'	57:BA:613:G:H5"	1.27	1.14
42:AV:72:VAL:HG23	42:AV:85:LYS:HB3	1.26	1.14
12:Bm:65:LYS:HB2	12:Bm:66:LEU:CB	1.78	1.14
8:Ai:4:TYR:HB2	8:Ai:19:LEU:HB2	1.26	1.14
58:AB:7:G:H3'	58:AB:8:U:H5"	1.26	1.14
57:BA:1484:G:H2'	57:BA:1485:G:H5"	1.22	1.14
57:BA:1590:U:H2'	57:BA:1591:G:H5"	1.29	1.13
58:BB:7:G:H3'	58:BB:8:U:H5"	1.27	1.13
58:AB:20:C:H2'	58:AB:21:G:H5"	1.27	1.13
57:AA:2491:U:H5'	57:AA:2570:G:H5"	1.25	1.13
36:BP:126:VAL:HA	36:BP:145:PRO:HB2	1.30	1.13
58:BB:20:C:H2'	58:BB:21:G:H5"	1.28	1.13
32:BI:118:LYS:HG2	32:BI:119:PRO:HD2	1.18	1.12
6:Bg:113:GLU:HB2	6:Bg:119:ARG:HG2	1.31	1.12
30:AG:46:ALA:HB3	30:AG:82:LEU:HD11	1.15	1.12
33:AJ:11:ALA:HB2	57:AA:1046:A:H5"	1.22	1.12
47:A0:14:ARG:HB2	47:A0:14:ARG:HH11	1.14	1.12
22:Ba:1423:G:H5'	35:BO:49:ARG:NH2	1.63	1.12
45:BY:76:CYS:SG	45:BY:77:PRO:HD2	1.87	1.12
12:Bm:23:TYR:HB2	12:Bm:67:GLU:HG2	1.27	1.12
12:Bm:65:LYS:CA	12:Bm:66:LEU:HB2	1.78	1.12
26:BC:40:GLU:HB2	26:BC:179:ALA:HB2	1.32	1.12
57:AA:1484:G:H2'	57:AA:1485:G:H5"	1.22	1.11
9:Bj:50:ILE:HD13	9:Bj:50:ILE:H	1.14	1.11
30:BG:46:ALA:HB2	30:BG:88:ILE:HD11	1.29	1.11
57:AA:1845:G:H2'	57:AA:1846:G:H5"	1.12	1.11
57:BA:2491:U:H5'	57:BA:2570:G:H5"	1.26	1.11
21:Ay:26:LEU:HD21	21:Ay:55:LEU:HD11	1.27	1.11
8:Bi:104:ARG:O	8:Bi:105:ASP:HB2	1.47	1.11
57:BA:1899:G:N2	57:BA:1902:C:H41	1.47	1.11
57:AA:1899:G:N2	57:AA:1902:C:H41	1.48	1.10
8:Ai:104:ARG:O	8:Ai:105:ASP:HB2	1.47	1.10
7:Ah:12:ARG:HH12	7:Ah:27:PRO:HD3	1.13	1.10
36:AP:59:LEU:HA	36:AP:61:ARG:NH1	1.67	1.10
1:Bb:162:ILE:HD11	1:Bb:184:VAL:HG22	1.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:55:ARG:HG2	36:AP:56:SER:H	1.14	1.10
2:Ac:154:SER:HB2	22:Aa:1057:G:H5"	1.33	1.09
12:Am:65:LYS:HB2	12:Am:66:LEU:HB2	1.19	1.09
12:Am:66:LEU:H	12:Am:70:LEU:CB	1.65	1.09
42:AV:19:LYS:HG2	42:AV:94:LEU:HB2	1.34	1.09
45:AY:76:CYS:SG	45:AY:77:PRO:HD2	1.92	1.09
12:Am:91:ARG:CD	18:As:81:ARG:NH2	2.14	1.09
26:AC:40:GLU:HB2	26:AC:179:ALA:HB2	1.32	1.09
40:AT:28:VAL:HG13	40:AT:46:GLU:HA	1.28	1.09
8:Bi:55:ALA:HB1	8:Bi:58:HIS:HD2	1.09	1.09
27:BD:242:ARG:HH21	57:BA:1826:G:H4'	1.03	1.09
36:BP:59:LEU:HA	36:BP:61:ARG:NH1	1.67	1.09
57:AA:612:C:H2'	57:AA:613:G:H5"	1.27	1.09
57:AA:1590:U:H2'	57:AA:1591:G:H5"	1.30	1.09
38:BR:2:ARG:HH11	38:BR:2:ARG:N	1.50	1.09
8:Bi:4:TYR:HB2	8:Bi:19:LEU:HB2	1.26	1.08
36:BP:55:ARG:HG2	36:BP:56:SER:H	1.17	1.08
42:BV:72:VAL:HG23	42:BV:85:LYS:HB3	1.23	1.08
38:AR:2:ARG:N	38:AR:2:ARG:HH11	1.50	1.08
32:AI:88:ILE:HD12	32:AI:120:ILE:HG21	1.32	1.08
57:AA:1747(A):G:H2'	57:AA:1748:G:H5"	1.25	1.08
12:Bm:65:LYS:HA	12:Bm:66:LEU:CG	1.82	1.08
22:Aa:975:A:H4'	22:Aa:976:G:H5"	1.36	1.08
21:By:81:ARG:HD2	21:By:82:GLU:N	1.67	1.08
57:BA:1494:A:H2'	57:BA:1495:A:H5"	1.36	1.08
9:Aj:50:ILE:HD13	9:Aj:50:ILE:H	1.14	1.07
36:BP:23:PRO:HD2	36:BP:33:ARG:CZ	1.84	1.07
49:B2:13:ALA:HA	49:B2:16:LEU:HD12	1.35	1.07
32:BI:115:ALA:HB3	32:BI:128:LEU:HB3	1.36	1.07
12:Am:3:ARG:HD3	30:AG:113:ARG:HH12	1.05	1.06
30:AG:106:LEU:HA	30:AG:110:ALA:HB2	1.37	1.06
36:AP:126:VAL:HA	36:AP:145:PRO:HB2	1.30	1.06
36:BP:16:ARG:HD3	36:BP:18:ARG:H	1.20	1.06
52:B5:4:HIS:HB3	52:B5:5:PRO:HD3	1.35	1.06
22:Aa:1003:G:H2'	22:Aa:1004:A:H4'	1.34	1.06
29:AF:24:LEU:HB3	29:AF:25:PRO:HD2	1.35	1.06
36:AP:23:PRO:HD2	36:AP:33:ARG:CZ	1.85	1.06
36:AP:101:VAL:HB	36:AP:107:LYS:HA	1.37	1.06
50:A3:1:MET:HE2	50:A3:39:ASP:HB3	1.38	1.06
52:A5:4:HIS:HB3	52:A5:5:PRO:HD3	1.36	1.06
12:Bm:65:LYS:CA	12:Bm:66:LEU:CB	2.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Bo:82:ILE:HG12	14:Bo:87:ILE:HG13	1.36	1.06
29:BF:24:LEU:HB3	29:BF:25:PRO:HD2	1.37	1.06
30:BG:111:LEU:HA	30:BG:114:ILE:CD1	1.84	1.06
47:B0:14:ARG:HH11	47:B0:14:ARG:HB2	1.16	1.06
6:Ag:113:GLU:HB2	6:Ag:119:ARG:HG2	1.31	1.06
40:AT:28:VAL:HG22	40:AT:47:GLY:N	1.71	1.06
12:Bm:108:ARG:CZ	12:Bm:114:ARG:CG	2.34	1.06
30:BG:111:LEU:CA	30:BG:114:ILE:HD12	1.86	1.06
1:Ab:162:ILE:HD11	1:Ab:184:VAL:HG22	1.33	1.05
22:Ba:1003:G:H2'	22:Ba:1004:A:H4'	1.35	1.05
37:AQ:132:VAL:HG11	46:AZ:81:ARG:HH21	1.22	1.05
3:Bd:59:ARG:HA	3:Bd:59:ARG:HE	1.21	1.05
12:Bm:65:LYS:CB	12:Bm:66:LEU:CB	2.30	1.05
42:BV:19:LYS:HG2	42:BV:94:LEU:HB2	1.35	1.05
12:Am:78:ILE:HG22	12:Am:93:ARG:NH2	1.72	1.05
47:A0:48:GLY:HA3	47:A0:80:HIS:HD1	1.20	1.05
2:Bc:154:SER:HB2	22:Ba:1057:G:H5"	1.36	1.05
55:A8:62:LEU:HD13	57:AA:242:G:H5"	1.10	1.05
7:Bh:12:ARG:HH12	7:Bh:27:PRO:HD3	1.16	1.05
55:B8:62:LEU:HD13	57:BA:242:G:H5"	1.11	1.05
14:Ao:82:ILE:HG12	14:Ao:87:ILE:HG13	1.37	1.04
46:AZ:165:VAL:HG12	46:AZ:166:SER:H	1.21	1.04
57:AA:1494:A:H2'	57:AA:1495:A:H5"	1.37	1.04
40:BT:28:VAL:HG22	40:BT:47:GLY:N	1.70	1.04
36:AP:16:ARG:HD3	36:AP:18:ARG:H	1.20	1.04
57:BA:1845:G:H2'	57:BA:1846:G:H5"	1.13	1.04
39:AS:55:ALA:HB1	58:AB:117:G:H5'	1.37	1.04
22:Ba:975:A:H4'	22:Ba:976:G:H5"	1.35	1.04
31:AH:153:LYS:HD3	31:AH:153:LYS:H	1.20	1.03
48:A1:23:LYS:HD2	48:A1:28:GLY:HA3	1.41	1.03
46:BZ:57:ILE:HG22	46:BZ:58:VAL:H	1.21	1.03
21:By:54:LYS:CE	23:Bx:20:A:O2'	2.05	1.03
22:Ba:979:C:H3'	22:Ba:980:C:H5"	1.40	1.03
40:BT:5:ALA:HB2	57:BA:2875:C:H4'	1.37	1.03
42:AV:21:ARG:HG2	42:AV:91:TYR:CD2	1.93	1.03
1:Bb:18:GLY:H	1:Bb:42:ILE:HG22	1.23	1.03
8:Bi:103:THR:HG22	8:Bi:104:ARG:H	1.24	1.03
36:BP:101:VAL:HB	36:BP:107:LYS:HA	1.40	1.03
8:Ai:99:LEU:HB3	8:Ai:101:PHE:HD1	1.19	1.03
30:AG:67:LYS:HE3	30:AG:67:LYS:N	1.72	1.03
12:Bm:115:LYS:O	22:Ba:1228:C:H4'	1.56	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:By:54:LYS:HE2	23:Bx:20:A:O2'	1.57	1.03
45:AY:51:VAL:HG12	45:AY:53:PRO:HD2	1.39	1.03
28:BE:36:ARG:NH2	28:BE:88:GLY:HA2	1.73	1.03
57:BA:548:A:H2'	57:BA:549:G:H5'	1.41	1.03
1:Ab:172:ILE:H	1:Ab:172:ILE:HD12	1.22	1.02
12:Am:69:GLU:CA	12:Am:70:LEU:C	2.30	1.02
21:Ay:39:ILE:HB	21:Ay:42:ASN:HD22	1.18	1.02
31:BH:153:LYS:HD3	31:BH:153:LYS:H	1.19	1.02
57:BA:1845:G:C2'	57:BA:1846:G:H5"	1.89	1.02
30:AG:4:ASP:HA	30:AG:8:LYS:HD3	1.41	1.02
31:AH:43:VAL:HG11	31:AH:52:VAL:HG22	1.40	1.02
28:AE:36:ARG:NH2	28:AE:88:GLY:HA2	1.72	1.02
57:AA:548:A:H2'	57:AA:549:G:H5'	1.40	1.02
57:AA:1845:G:C2'	57:AA:1846:G:H5"	1.88	1.02
32:BI:88:ILE:HD12	32:BI:120:ILE:HG21	1.36	1.02
19:At:75:ASN:ND2	19:At:75:ASN:H	1.52	1.02
46:AZ:151:HIS:HA	46:AZ:171:ILE:HG13	1.37	1.02
31:BH:43:VAL:HG11	31:BH:52:VAL:HG22	1.39	1.02
57:BA:1884:A:C2'	57:BA:1885:A:H5"	1.89	1.02
21:By:67:ILE:HB	21:By:72:VAL:HG13	1.42	1.02
30:BG:51:ARG:HA	30:BG:51:ARG:NE	1.75	1.02
55:B8:33:ASN:HD22	55:B8:33:ASN:H	1.06	1.02
57:BA:612:C:C2'	57:BA:613:G:H5"	1.90	1.02
30:AG:109:VAL:O	30:AG:113:ARG:HB2	1.59	1.01
36:AP:64:LYS:HB3	55:A8:25:MET:HG3	1.41	1.01
40:AT:5:ALA:HB2	57:AA:2875:C:H4'	1.37	1.01
57:AA:612:C:C2'	57:AA:613:G:H5"	1.89	1.01
8:Bi:120:ARG:HD2	22:Ba:1348:U:H4'	1.42	1.01
9:Bj:4:ILE:HB	9:Bj:74:ILE:HD11	1.39	1.01
10:Bk:99:GLN:HG2	10:Bk:105:VAL:HG11	1.39	1.01
12:Bm:69:GLU:CA	12:Bm:70:LEU:C	2.30	1.01
42:BV:21:ARG:HG2	42:BV:91:TYR:CD2	1.94	1.01
12:Am:3:ARG:CD	30:AG:113:ARG:NH1	2.18	1.01
12:Am:91:ARG:CD	18:As:81:ARG:HH21	1.72	1.01
8:Bi:68:GLY:H	22:Ba:1250:A:H4'	1.25	1.01
40:BT:13:ARG:CZ	40:BT:13:ARG:HA	1.91	1.01
12:Am:65:LYS:HA	12:Am:66:LEU:HG	1.41	1.01
21:Ay:43:LYS:HB2	21:Ay:51:TYR:CD1	1.94	1.01
40:AT:13:ARG:CZ	40:AT:13:ARG:HA	1.91	1.01
45:AY:28:LYS:HB3	45:AY:37:VAL:HB	1.43	1.01
57:AA:2801(A):A:H4'	57:AA:2802:G:H5'	1.40	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:By:5:LEU:HA	21:By:73:VAL:HB	1.37	1.01
45:BY:28:LYS:HB3	45:BY:37:VAL:HB	1.42	1.01
57:BA:2523:G:H2'	57:BA:2524:G:H5"	1.41	1.01
57:BA:2801(A):A:H4'	57:BA:2802:G:H5'	1.39	1.01
21:Ay:38:ARG:HG2	21:Ay:51:TYR:CZ	1.96	1.01
32:BI:74:ASN:H	32:BI:74:ASN:HD22	1.01	1.01
50:B3:1:MET:HE2	50:B3:39:ASP:HB3	1.38	1.01
32:AI:92:VAL:HG11	32:AI:120:ILE:HD13	1.42	1.01
36:AP:30:THR:HG22	36:AP:31:ALA:H	1.23	1.01
11:Bl:38:THR:HG23	11:Bl:39:VAL:HG23	1.41	1.01
12:Bm:23:TYR:CB	12:Bm:67:GLU:HG2	1.89	1.01
38:BR:63:ARG:HE	57:BA:1453:U:H5'	1.26	1.01
45:BY:51:VAL:HG12	45:BY:53:PRO:HD2	1.39	1.01
1:Ab:233:SER:HB2	1:Ab:234:PRO:HD2	1.43	1.00
12:Am:3:ARG:HD3	30:AG:113:ARG:NH1	1.71	1.00
22:Aa:1502:A:H2	22:Aa:1505:G:H1	1.08	1.00
8:Bi:55:ALA:HB1	8:Bi:58:HIS:CD2	1.95	1.00
12:Bm:69:GLU:HB3	12:Bm:72:ALA:CB	1.90	1.00
46:BZ:7:ALA:HB2	46:BZ:59:LEU:HD22	1.42	1.00
10:Ak:99:GLN:HG2	10:Ak:105:VAL:HG11	1.40	1.00
11:Bl:41:ARG:HH11	11:Bl:41:ARG:HB3	1.26	1.00
12:Bm:108:ARG:NH2	12:Bm:114:ARG:HG2	1.75	1.00
47:B0:48:GLY:HA3	47:B0:80:HIS:HD1	1.26	1.00
57:BA:2645:G:H3'	57:BA:2646:C:H5'	1.43	1.00
37:AQ:43:THR:HB	37:AQ:45:GLN:HE21	1.26	1.00
15:Bp:22:THR:HA	15:Bp:33:ILE:HG12	1.44	1.00
27:BD:242:ARG:NH2	57:BA:1826:G:H4'	1.76	1.00
32:BI:79:ILE:HG22	32:BI:81:VAL:HG12	1.43	1.00
3:Ad:59:ARG:HA	3:Ad:59:ARG:HE	1.19	1.00
30:AG:152:LEU:HD23	30:AG:152:LEU:H	1.24	1.00
8:Bi:48:GLU:N	8:Bi:49:PRO:HD2	1.76	1.00
12:Bm:69:GLU:CB	12:Bm:72:ALA:CB	2.39	1.00
32:BI:92:VAL:HB	32:BI:120:ILE:HB	1.41	1.00
57:AA:2523:G:H2'	57:AA:2524:G:H5"	1.44	1.00
46:AZ:128:VAL:HG21	46:AZ:132:ASN:HB2	1.44	1.00
12:Bm:65:LYS:HA	12:Bm:66:LEU:CB	1.92	1.00
12:Bm:66:LEU:H	12:Bm:70:LEU:HB2	1.26	1.00
11:Bl:89:ARG:HH11	11:Bl:89:ARG:HB2	1.26	1.00
24:Bv:47:U:H3'	24:Bv:48:C:H5'	1.44	1.00
36:AP:59:LEU:HA	36:AP:61:ARG:CZ	1.91	0.99
22:Ba:1116:C:H2'	22:Ba:1117:G:H5"	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:18:GLY:H	1:Ab:42:ILE:HG22	1.25	0.99
8:Ai:16:ARG:HH22	22:Aa:1128:C:H5"	1.27	0.99
9:Aj:4:ILE:HB	9:Aj:74:ILE:HD11	1.43	0.99
28:BE:134:ILE:O	28:BE:134:ILE:HG13	1.61	0.99
21:Ay:87:TYR:CE2	23:Ax:20:A:H2'	1.98	0.99
1:Ab:71:VAL:HB	1:Ab:164:VAL:HG12	1.44	0.99
8:Ai:68:GLY:H	22:Aa:1250:A:H4'	1.26	0.99
11:Al:89:ARG:HB2	11:Al:89:ARG:HH11	1.25	0.99
36:BP:30:THR:HG22	36:BP:31:ALA:H	1.25	0.99
57:AA:2645:G:H3'	57:AA:2646:C:H5'	1.44	0.99
57:BA:2206:G:H21	57:BA:2207:G:H5'	1.24	0.99
32:AI:115:ALA:HB3	32:AI:128:LEU:HB3	1.39	0.99
11:Al:38:THR:HG23	11:Al:39:VAL:HG23	1.44	0.99
15:Ap:22:THR:HA	15:Ap:33:ILE:HG12	1.45	0.99
32:AI:127:VAL:HG13	32:AI:139:GLN:HA	1.44	0.99
30:BG:72:ARG:HB3	30:BG:86:MET:HA	1.45	0.99
2:Ac:70:VAL:HG12	2:Ac:72:LYS:H	1.26	0.99
8:Ai:55:ALA:HB1	8:Ai:58:HIS:CD2	1.97	0.99
12:Am:68:GLY:O	12:Am:71:ARG:HB3	1.63	0.99
48:A1:51:VAL:HG21	48:A1:74:VAL:HG21	1.40	0.99
1:Bb:172:ILE:HD12	1:Bb:172:ILE:H	1.22	0.99
32:AI:92:VAL:HB	32:AI:120:ILE:HB	1.41	0.99
57:AA:1884:A:C2'	57:AA:1885:A:H5"	1.92	0.99
57:AA:1747(A):G:C2'	57:AA:1748:G:H5"	1.92	0.98
22:Aa:979:C:H3'	22:Aa:980:C:H5"	1.42	0.98
24:Av:47:U:H3'	24:Av:48:C:H5'	1.44	0.98
12:Bm:68:GLY:O	12:Bm:69:GLU:HB3	1.57	0.98
39:BS:67:ARG:HH11	39:BS:67:ARG:HB3	1.28	0.98
22:Aa:1321:C:H5'	22:Aa:1322:C:H5"	1.44	0.98
1:Bb:80:ILE:HD11	1:Bb:208:ILE:HG23	1.43	0.98
57:AA:2681:C:H5	57:AA:2725:A:H62	1.03	0.98
32:BI:127:VAL:HG13	32:BI:139:GLN:HA	1.44	0.98
21:By:81:ARG:HD2	21:By:82:GLU:H	0.85	0.98
22:Aa:1116:C:H2'	22:Aa:1117:G:H5"	1.44	0.97
22:Aa:1363(A):A:H4'	22:Aa:1364:U:H5"	1.46	0.97
2:Bc:14:ILE:HG12	2:Bc:15:THR:H	1.28	0.97
36:BP:59:LEU:HA	36:BP:61:ARG:CZ	1.93	0.97
54:B7:12:ARG:HD3	54:B7:46:VAL:HG21	1.45	0.97
21:Ay:38:ARG:HG2	21:Ay:51:TYR:CE2	1.99	0.97
30:AG:136:ARG:HH22	57:AA:2306:C:H4'	1.22	0.97
1:Bb:71:VAL:HB	1:Bb:164:VAL:HG12	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Bv:47:U:H3'	24:Bv:48:C:C5'	1.94	0.97
27:BD:35:LYS:O	27:BD:37:LEU:N	1.97	0.97
30:BG:161:THR:HG22	30:BG:163:ALA:H	1.25	0.97
1:Ab:80:ILE:HD11	1:Ab:208:ILE:HG23	1.45	0.97
30:AG:111:LEU:HD22	30:AG:120:LEU:HD21	1.44	0.97
57:AA:2206:G:H21	57:AA:2207:G:H5'	1.26	0.97
12:Bm:66:LEU:N	12:Bm:70:LEU:HB2	1.80	0.97
1:Bb:80:ILE:H	1:Bb:80:ILE:HD12	1.28	0.97
28:BE:77:ILE:HG22	28:BE:78:LEU:H	1.29	0.97
45:AY:57:GLN:HG2	45:AY:58:GLY:H	1.29	0.97
57:BA:1747(A):G:C2'	57:BA:1748:G:H5"	1.93	0.97
57:BA:2206:G:N2	57:BA:2207:G:H5'	1.79	0.97
2:Bc:70:VAL:HG12	2:Bc:72:LYS:H	1.24	0.97
45:BY:28:LYS:HZ2	45:BY:28:LYS:H	1.01	0.97
21:Ay:67:ILE:HB	21:Ay:72:VAL:HG12	1.44	0.97
50:B3:8:LEU:HD13	50:B3:31:LEU:HD23	1.46	0.97
1:Ab:164:VAL:HG23	1:Ab:186:ALA:HB2	1.45	0.97
12:Am:65:LYS:CA	12:Am:66:LEU:CB	2.30	0.97
36:BP:64:LYS:HB3	55:B8:25:MET:HG3	1.43	0.97
2:Ac:14:ILE:HG12	2:Ac:15:THR:H	1.28	0.97
55:A8:33:ASN:H	55:A8:33:ASN:HD22	1.04	0.97
31:BH:97:ARG:HG2	31:BH:98:LEU:H	1.29	0.97
37:BQ:43:THR:HB	37:BQ:45:GLN:HE21	1.28	0.97
27:AD:242:ARG:NH2	57:AA:1826:G:H4'	1.78	0.97
28:AE:77:ILE:HG22	28:AE:78:LEU:H	1.30	0.96
46:AZ:102:LEU:HD21	46:AZ:124:ILE:HG12	1.47	0.96
55:A8:4:MET:HE3	55:A8:61:LEU:HD23	1.47	0.96
12:Bm:115:LYS:HB2	22:Ba:1227:A:O2'	1.64	0.96
32:BI:91:SER:HB2	32:BI:119:PRO:HB2	1.45	0.96
32:BI:109:ILE:HG22	32:BI:110:ASP:H	1.30	0.96
32:AI:74:ASN:HD22	32:AI:74:ASN:H	0.97	0.96
46:BZ:117:LEU:HA	46:BZ:174:VAL:HG22	1.47	0.96
55:A8:50:LEU:HD12	55:A8:51:ALA:H	1.30	0.96
12:Bm:69:GLU:HB3	12:Bm:72:ALA:HB3	1.46	0.96
1:Ab:80:ILE:H	1:Ab:80:ILE:HD12	1.25	0.96
57:AA:2206:G:N2	57:AA:2207:G:H5'	1.79	0.96
1:Bb:164:VAL:HG23	1:Bb:186:ALA:HB2	1.44	0.96
45:BY:76:CYS:HB3	45:BY:96:ILE:HD11	1.44	0.96
12:Am:63:THR:HG22	12:Am:64:TRP:N	1.80	0.96
31:AH:124:GLU:HB2	31:AH:132:ARG:HG2	1.47	0.96
34:AN:125:GLY:HA3	34:AN:126:PRO:O	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:67:THR:HG21	1:Ab:155:LEU:HD21	1.47	0.96
22:Ba:1321:C:H5'	22:Ba:1322:C:H5"	1.44	0.96
23:Bx:16:A:H61	24:Bv:36:U:H3	1.13	0.96
8:Ai:120:ARG:HD2	22:Aa:1348:U:H4'	1.44	0.96
11:Al:41:ARG:HH11	11:Al:41:ARG:HB3	1.27	0.96
57:AA:1210:A:H5'	57:AA:1210:A:H8	1.30	0.96
1:Bb:233:SER:HB2	1:Bb:234:PRO:HD2	1.44	0.96
8:Bi:55:ALA:CB	8:Bi:58:HIS:HD2	1.78	0.96
12:Bm:65:LYS:CE	12:Bm:70:LEU:H	1.78	0.96
41:BU:27:LEU:HD22	41:BU:31:SER:HB2	1.48	0.96
49:B2:47:ASN:HD22	57:BA:94(A):G:H21	1.07	0.96
55:B8:59:LYS:HB2	55:B8:59:LYS:NZ	1.81	0.96
9:Aj:49:VAL:CG2	13:An:41:ARG:HB2	1.96	0.96
32:AI:2:LYS:HD3	32:AI:20:ASP:HB3	1.47	0.96
38:AR:63:ARG:HE	57:AA:1453:U:H5'	1.26	0.96
34:BN:125:GLY:HA3	34:BN:126:PRO:O	1.63	0.96
36:BP:23:PRO:HB2	36:BP:33:ARG:HD2	1.46	0.96
45:AY:42:VAL:HG12	45:AY:65:ALA:HB3	1.47	0.96
22:Aa:1321:C:C5'	22:Aa:1322:C:H5"	1.96	0.95
57:AA:676:A:H8	57:AA:2069:G:H21	1.14	0.95
21:By:51:TYR:HH	21:By:64:TYR:HD1	1.00	0.95
46:BZ:81:ARG:HB3	46:BZ:81:ARG:NH1	1.80	0.95
12:Am:66:LEU:H	12:Am:70:LEU:HB2	0.80	0.95
28:AE:116:VAL:O	28:AE:117:MET:HB3	1.66	0.95
12:Bm:63:THR:HG22	12:Bm:64:TRP:H	1.27	0.95
12:Bm:69:GLU:HB2	12:Bm:72:ALA:HB3	1.47	0.95
22:Ba:1321:C:C5'	22:Ba:1322:C:H5"	1.96	0.95
27:BD:44:ASN:HB3	27:BD:49:ILE:HA	1.47	0.95
28:BE:116:VAL:O	28:BE:117:MET:HB3	1.61	0.95
54:A7:12:ARG:HD3	54:A7:46:VAL:HG21	1.46	0.95
22:Ba:1363(A):A:H4'	22:Ba:1364:U:H5"	1.48	0.95
32:BI:92:VAL:HG11	32:BI:120:ILE:HD13	1.46	0.95
45:BY:42:VAL:HG12	45:BY:65:ALA:HB3	1.48	0.95
57:BA:145:G:H2'	57:BA:146:G:H5"	1.48	0.95
27:AD:44:ASN:HB3	27:AD:49:ILE:HA	1.46	0.95
30:AG:119:GLY:HA2	30:AG:179:PRO:HB2	1.47	0.95
8:Ai:55:ALA:CB	8:Ai:58:HIS:HD2	1.79	0.95
51:A4:12:ALA:HB1	51:A4:29:PRO:HA	1.49	0.95
22:Ba:328:C:H4'	22:Ba:329:A:H5'	1.48	0.95
46:BZ:108:PRO:HB3	46:BZ:144:LEU:HD23	1.47	0.95
21:Ay:43:LYS:HA	21:Ay:51:TYR:HA	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:145:G:H2'	57:AA:146:G:H5"	1.48	0.95
36:BP:32:THR:HG21	36:BP:37:GLY:HA2	1.49	0.95
57:BA:2681:C:H5	57:BA:2725:A:H62	1.07	0.95
3:Bd:129:ASN:HD22	3:Bd:129:ASN:H	0.99	0.95
32:BI:2:LYS:HD3	32:BI:20:ASP:HB3	1.45	0.95
39:AS:67:ARG:HH11	39:AS:67:ARG:HB3	1.31	0.95
55:A8:62:LEU:CD1	57:AA:242:G:H5"	1.96	0.95
57:AA:404:C:H4'	57:AA:405:U:H5'	1.48	0.95
30:BG:19:LEU:HA	30:BG:22:ARG:HB2	1.47	0.95
46:BZ:126:VAL:HG12	46:BZ:163:LEU:HA	1.48	0.95
53:B6:15:GLU:HG3	53:B6:47:THR:HG21	1.48	0.95
57:BA:1590:U:C2'	57:BA:1591:G:H5"	1.96	0.95
38:AR:100:LEU:H	38:AR:100:LEU:HD22	1.32	0.95
24:Bv:73:A:H5'	24:Bv:73:A:H8	1.29	0.95
30:BG:12:TYR:HA	30:BG:16:ARG:HB2	1.49	0.95
57:BA:1484:G:C2'	57:BA:1485:G:H5"	1.97	0.95
57:BA:1779:U:H5	57:BA:1784:A:N7	1.64	0.95
57:BA:2068:U:H3	57:BA:2430:A:H2	0.95	0.95
45:AY:76:CYS:HB3	45:AY:96:ILE:HD11	1.46	0.94
1:Ab:209:ARG:HH11	1:Ab:239:VAL:HG11	1.30	0.94
32:AI:91:SER:HB2	32:AI:119:PRO:HB2	1.48	0.94
55:B8:50:LEU:HD12	55:B8:51:ALA:H	1.31	0.94
6:Ag:7:ALA:HB2	22:Aa:1377:A:H2'	1.47	0.94
12:Am:69:GLU:HB2	12:Am:72:ALA:HB3	1.49	0.94
53:A6:15:GLU:HG3	53:A6:47:THR:HG21	1.47	0.94
57:AA:1948:G:H8	57:AA:1948:G:H5'	1.32	0.94
9:Bj:49:VAL:CG2	13:Bn:41:ARG:HB2	1.96	0.94
2:Ac:108:ASN:HD21	2:Ac:144:SER:HB2	1.32	0.94
28:AE:134:ILE:O	28:AE:134:ILE:HG13	1.65	0.94
31:AH:97:ARG:HG2	31:AH:98:LEU:H	1.31	0.94
27:BD:259:THR:CG2	57:BA:1803:A:H4'	1.97	0.94
57:BA:404:C:H4'	57:BA:405:U:H5'	1.48	0.94
57:AA:1590:U:C2'	57:AA:1591:G:H5"	1.97	0.94
45:BY:57:GLN:HG2	45:BY:58:GLY:H	1.29	0.94
55:B8:4:MET:HE3	55:B8:61:LEU:HD23	1.47	0.94
55:A8:33:ASN:H	55:A8:33:ASN:ND2	1.62	0.94
8:Bi:16:ARG:HH22	22:Ba:1128:C:H5"	1.28	0.94
3:Ad:129:ASN:HD22	3:Ad:129:ASN:H	0.95	0.94
13:An:27:CYS:SG	13:An:29:ARG:HB2	2.07	0.94
27:AD:259:THR:CG2	57:AA:1803:A:H4'	1.98	0.94
29:AF:51:THR:HB	29:AF:88:VAL:HG11	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:79:ILE:HG22	32:AI:81:VAL:HG12	1.47	0.94
46:BZ:163:LEU:HD23	46:BZ:163:LEU:H	1.32	0.94
22:Ba:1347:G:N2	22:Ba:1373:G:H2'	1.83	0.94
27:BD:181:GLU:HA	27:BD:272:ALA:HB3	1.49	0.94
30:BG:67:LYS:HZ2	51:B4:5:ILE:HD11	1.31	0.94
32:AI:113:ARG:HH11	32:AI:113:ARG:HB3	1.33	0.93
57:AA:528:A:O2'	57:AA:529:A:H5'	1.68	0.93
57:AA:1484:G:C2'	57:AA:1485:G:H5"	1.97	0.93
57:AA:1779:U:H5	57:AA:1784:A:N7	1.65	0.93
57:AA:2068:U:H3	57:AA:2430:A:H2	0.97	0.93
1:Bb:209:ARG:HH11	1:Bb:239:VAL:HG11	1.30	0.93
24:Bv:72:A:H2'	24:Bv:73:A:H5"	1.51	0.93
27:BD:34:VAL:HG23	27:BD:35:LYS:H	1.33	0.93
38:BR:100:LEU:HD22	38:BR:100:LEU:H	1.30	0.93
55:B8:62:LEU:CD1	57:BA:242:G:H5"	1.98	0.93
21:Ay:44:LEU:HD21	21:Ay:50:CYS:HB2	1.49	0.93
22:Aa:559:A:H4'	22:Aa:560:U:H5"	1.51	0.93
27:AD:28:GLU:H	27:AD:29:PRO:HD2	1.33	0.93
36:AP:48:PRO:HG2	36:AP:49:ARG:H	1.32	0.93
30:BG:56:ALA:HB2	30:BG:153:ARG:HH11	1.31	0.93
11:Bl:70:ILE:HG12	11:Bl:100:ILE:HD12	1.47	0.93
3:Ad:129:ASN:HD22	3:Ad:129:ASN:N	1.64	0.93
8:Ai:99:LEU:HB3	8:Ai:101:PHE:CD1	2.02	0.93
30:AG:67:LYS:HE3	30:AG:67:LYS:H	1.30	0.93
8:Bi:47:LEU:N	8:Bi:47:LEU:HD12	1.83	0.93
49:B2:16:LEU:O	49:B2:17:SER:HB3	1.68	0.93
22:Aa:328:C:H4'	22:Aa:329:A:C5'	1.98	0.93
22:Aa:1347:G:N2	22:Aa:1373:G:H2'	1.83	0.93
50:A3:8:LEU:HD13	50:A3:31:LEU:HD23	1.49	0.93
17:Br:37:VAL:HG23	17:Br:38:GLU:H	1.32	0.93
30:BG:40:ASN:HD22	30:BG:91:ARG:HB2	1.33	0.93
57:AA:528:A:C2	57:AA:2043:C:H4'	2.03	0.93
57:BA:1210:A:H5'	57:BA:1210:A:H8	1.32	0.93
57:BA:1948:G:H8	57:BA:1948:G:H5'	1.33	0.93
5:Af:43:LEU:HD12	5:Af:43:LEU:H	1.33	0.93
36:AP:23:PRO:HB2	36:AP:33:ARG:HD2	1.51	0.93
7:Bh:11:THR:HG22	7:Bh:15:ASN:HD21	1.33	0.93
22:Aa:328:C:H4'	22:Aa:329:A:H5'	1.47	0.93
57:AA:1494:A:C2'	57:AA:1495:A:H5"	1.98	0.93
51:B4:12:ALA:HB1	51:B4:29:PRO:HA	1.46	0.93
48:A1:19:GLN:HA	48:A1:19:GLN:HE21	1.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:80:SER:HB3	40:BT:81:PRO:HD3	1.49	0.93
22:Aa:673:G:H2'	22:Aa:674:G:C8	2.04	0.93
29:BF:51:THR:HB	29:BF:88:VAL:HG11	1.48	0.93
4:Ae:51:VAL:HB	4:Ae:52:PRO:HD3	1.50	0.92
8:Ai:63:ILE:HD11	8:Ai:81:ILE:HD11	1.51	0.92
21:Ay:43:LYS:HB2	21:Ay:51:TYR:CE1	2.03	0.92
27:AD:35:LYS:O	27:AD:37:LEU:N	2.00	0.92
37:BQ:62:GLY:HA2	46:BZ:116:VAL:HG21	1.50	0.92
57:BA:528:A:O2'	57:BA:529:A:H5'	1.69	0.92
57:BA:1494:A:C2'	57:BA:1495:A:H5"	1.99	0.92
6:Bg:7:ALA:HB2	22:Ba:1377:A:H2'	1.49	0.92
9:Aj:38:ILE:HD11	9:Aj:71:LEU:HD23	1.49	0.92
32:AI:109:ILE:HG22	32:AI:110:ASP:H	1.35	0.92
53:B6:5:VAL:HG22	53:B6:6:ARG:H	1.33	0.92
46:AZ:151:HIS:HB3	46:AZ:170:THR:HA	1.52	0.92
53:A6:5:VAL:HG22	53:A6:6:ARG:H	1.34	0.92
27:BD:79:VAL:HG21	27:BD:111:LEU:HD11	1.50	0.92
45:BY:47:LYS:HG2	57:BA:482:A:H4'	1.51	0.92
57:BA:997:G:O2'	57:BA:998:C:H5'	1.69	0.92
27:AD:24:ILE:HD13	27:AD:25:THR:H	1.34	0.92
57:BA:1022:G:H22	57:BA:1142(A):A:H2	1.13	0.92
2:Bc:108:ASN:HD21	2:Bc:144:SER:HB2	1.33	0.92
58:AB:20:C:C2'	58:AB:21:G:H5"	1.99	0.92
45:BY:44:ILE:O	45:BY:62:GLU:HG3	1.69	0.92
57:BA:1899:G:H22	57:BA:1902:C:H41	1.13	0.92
12:Am:91:ARG:HD2	18:As:81:ARG:HH21	1.34	0.92
37:AQ:12:GLN:HG2	37:AQ:73:PRO:HD2	1.52	0.92
1:Bb:67:THR:HG21	1:Bb:155:LEU:HD21	1.50	0.92
12:Bm:69:GLU:HG3	12:Bm:69:GLU:O	1.69	0.92
27:BD:28:GLU:H	27:BD:29:PRO:HD2	1.34	0.92
30:BG:51:ARG:HA	30:BG:51:ARG:HE	1.27	0.92
40:BT:91:ARG:HB3	40:BT:116:ALA:HA	1.52	0.92
57:BA:2158:A:H4'	57:BA:2159:G:H5'	1.51	0.92
32:AI:88:ILE:HD11	32:AI:142:VAL:HG13	1.52	0.92
43:AW:10:VAL:O	43:AW:11:ARG:HB2	1.69	0.92
46:AZ:67:LEU:HD23	46:AZ:90:VAL:HG11	1.49	0.92
55:A8:59:LYS:NZ	55:A8:59:LYS:HB2	1.82	0.92
52:B5:40:LYS:CE	52:B5:46:CYS:HB3	2.00	0.92
57:BA:528:A:C2	57:BA:2043:C:H4'	2.04	0.92
5:Bf:43:LEU:H	5:Bf:43:LEU:HD12	1.32	0.92
9:Bj:51:ARG:HG3	9:Bj:60:ARG:HA	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:65:LYS:HA	12:Bm:66:LEU:HG	1.52	0.92
31:BH:124:GLU:HB2	31:BH:132:ARG:HG2	1.49	0.92
36:BP:48:PRO:HG2	36:BP:49:ARG:H	1.34	0.92
27:AD:35:LYS:HB3	27:AD:35:LYS:HZ2	1.33	0.91
31:AH:19:VAL:HG21	31:AH:44:VAL:HA	1.51	0.91
40:AT:125:ARG:O	40:AT:128:GLU:HG3	1.69	0.91
13:Bn:12:ARG:C	13:Bn:14:PRO:HD2	1.94	0.91
22:Ba:328:C:H4'	22:Ba:329:A:C5'	1.99	0.91
1:Ab:32:ILE:HD11	1:Ab:40:HIS:HB3	1.52	0.91
7:Ah:12:ARG:NH1	7:Ah:27:PRO:HD3	1.84	0.91
22:Aa:1277:C:H2'	22:Aa:1278:U:H5'	1.52	0.91
57:AA:1022:G:H22	57:AA:1142(A):A:H2	1.15	0.91
45:BY:28:LYS:H	45:BY:28:LYS:NZ	1.67	0.91
57:BA:271(M):G:H2'	57:BA:271(N):U:H5"	1.52	0.91
33:AJ:39:ALA:HA	33:AJ:43:ALA:HB3	1.49	0.91
40:AT:80:SER:HB3	40:AT:81:PRO:HD3	1.48	0.91
49:A2:51:ARG:HD3	49:A2:55:ARG:HH22	1.32	0.91
57:AA:2103:C:H3'	57:AA:2104:G:H5"	1.53	0.91
18:Bs:43:GLU:HG2	18:Bs:43:GLU:O	1.68	0.91
18:As:43:GLU:HG2	18:As:43:GLU:O	1.70	0.91
57:AA:2158:A:H4'	57:AA:2159:G:H5'	1.51	0.91
4:Be:51:VAL:HB	4:Be:52:PRO:HD3	1.50	0.91
12:Bm:69:GLU:CG	12:Bm:72:ALA:HB3	2.00	0.91
29:BF:178:PRO:HB2	29:BF:201:VAL:HG11	1.51	0.91
42:BV:51:VAL:HG12	42:BV:52:VAL:H	1.35	0.91
57:BA:1021:A:H62	57:BA:1141:U:H3	1.14	0.91
12:Am:92:HIS:HD2	12:Am:110:ARG:NH2	1.69	0.91
18:As:42:PRO:HG3	51:A4:50:VAL:HG21	1.51	0.91
1:Bb:75:LYS:HA	1:Bb:78:GLN:HE21	1.35	0.91
11:Bl:6:THR:HG23	11:Bl:9:GLN:HE21	1.33	0.91
15:Bp:20:VAL:HG23	15:Bp:34:GLU:O	1.69	0.91
53:B6:10:LEU:HD23	53:B6:10:LEU:H	1.36	0.91
27:AD:34:VAL:HG23	27:AD:35:LYS:H	1.33	0.91
57:AA:1021:A:H62	57:AA:1141:U:H3	1.17	0.91
13:An:12:ARG:C	13:An:14:PRO:HD2	1.96	0.91
36:AP:18:ARG:HB3	36:AP:18:ARG:NH1	1.86	0.91
41:AU:27:LEU:HD22	41:AU:31:SER:HB2	1.51	0.91
18:Bs:6:LYS:HG2	18:Bs:7:LYS:HE3	1.51	0.91
22:Ba:673:G:H2'	22:Ba:674:G:C8	2.06	0.91
1:Ab:27:LYS:HD2	1:Ab:193:ASP:HB2	1.53	0.91
21:By:81:ARG:CD	21:By:82:GLU:H	1.79	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2833:G:H3'	57:BA:2834:G:C5'	2.00	0.91
9:Aj:51:ARG:HG3	9:Aj:60:ARG:HA	1.51	0.91
32:AI:113:ARG:HB3	32:AI:113:ARG:NH1	1.85	0.91
44:AX:36:LYS:HB2	57:AA:1598:C:H5'	1.50	0.91
51:A4:53:GLU:OE1	51:A4:55:ARG:HG3	1.70	0.91
1:Bb:32:ILE:HD11	1:Bb:40:HIS:HB3	1.52	0.91
9:Bj:38:ILE:HD11	9:Bj:71:LEU:HD23	1.50	0.91
17:Ar:37:VAL:HG23	17:Ar:38:GLU:H	1.35	0.91
36:AP:32:THR:HG21	36:AP:37:GLY:HA2	1.50	0.91
21:By:55:LEU:HD12	21:By:60:TYR:HB2	1.53	0.91
30:AG:63:ILE:HA	30:AG:143:GLU:HG3	1.51	0.90
30:AG:106:LEU:O	30:AG:110:ALA:CB	2.17	0.90
31:BH:30:LYS:HE3	31:BH:81:GLU:H	1.35	0.90
47:B0:23:VAL:HA	47:B0:38:VAL:HG22	1.52	0.90
11:Al:47:LYS:HB3	11:Al:48:PRO:HD3	1.53	0.90
11:Al:70:ILE:HG12	11:Al:100:ILE:HD12	1.50	0.90
45:AY:7:VAL:HB	45:AY:8:LYS:HD2	1.52	0.90
12:Bm:96:LEU:HB3	12:Bm:97:PRO:HD2	1.53	0.90
19:Bt:75:ASN:H	19:Bt:75:ASN:HD22	0.95	0.90
32:BI:88:ILE:HD11	32:BI:142:VAL:HG13	1.51	0.90
52:B5:53:ALA:HB3	52:B5:55:ARG:NH2	1.84	0.90
24:Av:59:A:H2'	24:Av:60:U:H5'	1.50	0.90
38:AR:10:LEU:HB3	38:AR:17:ARG:NE	1.87	0.90
57:AA:997:G:O2'	57:AA:998:C:H5'	1.70	0.90
57:AA:2833:G:H3'	57:AA:2834:G:C5'	2.02	0.90
12:Am:69:GLU:HA	12:Am:70:LEU:O	1.72	0.90
31:AH:30:LYS:HE3	31:AH:81:GLU:H	1.34	0.90
36:AP:45:LEU:HD23	36:AP:46:LYS:H	1.37	0.90
7:Bh:11:THR:HG22	7:Bh:15:ASN:ND2	1.87	0.90
7:Bh:12:ARG:NH1	7:Bh:27:PRO:HD3	1.85	0.90
28:AE:24:THR:HG23	28:AE:184:VAL:HG23	1.53	0.90
57:AA:203:C:H3'	57:AA:204:A:H5"	1.54	0.90
18:As:6:LYS:HG2	18:As:7:LYS:HE3	1.53	0.90
48:A1:89:GLU:HA	48:A1:92:LYS:HB3	1.52	0.90
8:Bi:47:LEU:C	8:Bi:49:PRO:HD2	1.97	0.90
40:BT:102:ILE:O	40:BT:106:SER:HB3	1.72	0.90
58:BB:20:C:C2'	58:BB:21:G:H5"	2.00	0.90
27:AD:24:ILE:CD1	27:AD:25:THR:H	1.85	0.90
46:BZ:68:PRO:HB2	46:BZ:91:LEU:HB2	1.54	0.90
1:Ab:75:LYS:HA	1:Ab:78:GLN:HE21	1.35	0.90
15:Ap:20:VAL:HG23	15:Ap:34:GLU:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Ay:53:ILE:HD12	21:Ay:62:LEU:HD23	1.52	0.90
46:AZ:61:LEU:HD23	46:AZ:61:LEU:H	1.35	0.90
22:Ba:1277:C:H2'	22:Ba:1278:U:H5'	1.53	0.90
27:BD:24:ILE:HD13	27:BD:25:THR:H	1.35	0.90
36:BP:33:ARG:CZ	57:BA:587:C:H2'	2.02	0.90
51:B4:53:GLU:OE1	51:B4:55:ARG:HG3	1.70	0.90
27:AD:79:VAL:HG21	27:AD:111:LEU:HD11	1.53	0.89
52:A5:40:LYS:CE	52:A5:46:CYS:HB3	2.00	0.89
55:A8:33:ASN:HD22	55:A8:33:ASN:N	1.66	0.89
22:Ba:976:G:H5'	22:Ba:1358:U:O2'	1.71	0.89
27:BD:35:LYS:HB3	27:BD:35:LYS:HZ2	1.34	0.89
36:BP:38:GLN:HG3	36:BP:39:LYS:H	1.36	0.89
37:BQ:12:GLN:HG2	37:BQ:73:PRO:HD2	1.54	0.89
40:BT:125:ARG:O	40:BT:128:GLU:HG3	1.72	0.89
12:Am:91:ARG:HH21	12:Am:100:GLY:HA2	1.38	0.89
22:Ba:559:A:H4'	22:Ba:560:U:H5"	1.51	0.89
6:Ag:79:ARG:HD3	6:Ag:82:GLY:H	1.36	0.89
9:Bj:32:ALA:CB	9:Bj:76:ASN:HB3	2.03	0.89
11:Bl:47:LYS:HB3	11:Bl:48:PRO:CD	2.03	0.89
25:Bw:71:C:H4'	57:BA:1851:U:H4'	1.54	0.89
57:BA:2103:C:H3'	57:BA:2104:G:H5"	1.52	0.89
19:At:75:ASN:H	19:At:75:ASN:HD22	0.94	0.89
57:AA:296:C:O2'	57:AA:297:C:H5'	1.71	0.89
11:Al:47:LYS:HB3	11:Al:48:PRO:CD	2.01	0.89
32:BI:74:ASN:HD22	32:BI:74:ASN:N	1.71	0.89
57:BA:1899:G:N2	57:BA:1902:C:N4	2.21	0.89
30:AG:106:LEU:C	30:AG:110:ALA:HB3	1.97	0.89
39:AS:89:ARG:O	39:AS:92:TYR:HB3	1.71	0.89
45:AY:28:LYS:H	45:AY:28:LYS:NZ	1.68	0.89
49:A2:46:GLN:H	49:A2:49:LYS:HD2	1.38	0.89
57:BA:296:C:O2'	57:BA:297:C:H5'	1.72	0.89
11:Al:6:THR:HG23	11:Al:9:GLN:HE21	1.36	0.89
45:AY:28:LYS:HZ2	45:AY:28:LYS:N	1.71	0.89
8:Bi:63:ILE:HD11	8:Bi:81:ILE:HD11	1.53	0.89
12:Bm:14:ARG:HD2	12:Bm:42:ALA:HA	1.54	0.89
19:Bt:75:ASN:H	19:Bt:75:ASN:ND2	1.54	0.89
43:BW:10:VAL:O	43:BW:11:ARG:HB2	1.69	0.89
3:Ad:49:ARG:HA	3:Ad:49:ARG:HE	1.37	0.89
28:AE:61:ARG:H	28:AE:62:PRO:HD2	1.38	0.89
32:AI:74:ASN:HD22	32:AI:74:ASN:N	1.68	0.89
48:A1:45:ASN:ND2	48:A1:47:GLN:NE2	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:47:LYS:HB3	11:Bl:48:PRO:HD3	1.54	0.89
21:By:26:LEU:HD21	21:By:55:LEU:HD11	1.55	0.89
44:BX:36:LYS:HB2	57:BA:1598:C:H5'	1.55	0.89
15:Ap:1:MET:HE2	15:Ap:65:GLN:HG3	1.54	0.89
32:AI:74:ASN:H	32:AI:74:ASN:ND2	1.70	0.89
34:AN:57:ALA:H	34:AN:124:ALA:HA	1.36	0.89
57:AA:208:C:H2'	57:AA:209:C:H6	1.38	0.89
2:Bc:15:THR:HG22	2:Bc:16:ARG:HH12	1.38	0.89
3:Bd:49:ARG:HA	3:Bd:49:ARG:HE	1.36	0.89
6:Bg:79:ARG:HD3	6:Bg:82:GLY:H	1.37	0.89
13:Bn:23:ARG:NH1	13:Bn:30:ALA:HB2	1.88	0.89
39:BS:97:ARG:HH21	39:BS:98:VAL:HA	1.38	0.89
53:B6:27:LYS:HD2	53:B6:30:THR:HB	1.54	0.89
55:B8:33:ASN:H	55:B8:33:ASN:ND2	1.64	0.89
6:Ag:120:ILE:O	6:Ag:124:LEU:HB2	1.72	0.89
25:Aw:25:C:H2'	25:Aw:26:G:H8	1.36	0.89
27:AD:181:GLU:HA	27:AD:272:ALA:HB3	1.54	0.89
31:AH:9:ILE:HD12	31:AH:50:VAL:HB	1.55	0.89
38:AR:63:ARG:NE	57:AA:1453:U:H5'	1.87	0.89
34:BN:57:ALA:H	34:BN:124:ALA:HA	1.35	0.89
45:BY:49:VAL:HG22	57:BA:483:A:H5"	1.53	0.89
45:AY:49:VAL:HG22	57:AA:483:A:H5"	1.54	0.88
30:BG:68:PRO:HA	30:BG:92:VAL:HB	1.55	0.88
38:BR:10:LEU:HB3	38:BR:17:ARG:NE	1.88	0.88
39:AS:52:SER:HB2	39:AS:55:ALA:HB3	1.55	0.88
30:BG:34:LEU:HD23	30:BG:99:MET:HE3	1.54	0.88
42:BV:24:LYS:HE2	42:BV:90:PRO:HB2	1.55	0.88
13:An:23:ARG:NH1	13:An:30:ALA:HB2	1.88	0.88
30:AG:136:ARG:NH2	57:AA:2306:C:H4'	1.89	0.88
34:AN:2:LYS:NZ	41:AU:95:LEU:HD21	1.88	0.88
53:A6:45:LYS:HG2	57:AA:2371:G:H4'	1.56	0.88
47:B0:11:ARG:HB2	47:B0:11:ARG:HH11	1.37	0.88
40:AT:91:ARG:HB3	40:AT:116:ALA:HA	1.52	0.88
55:A8:62:LEU:HD13	57:AA:242:G:C5'	2.01	0.88
15:Bp:1:MET:HE2	15:Bp:65:GLN:HG3	1.55	0.88
28:BE:202:LYS:O	28:BE:203:LYS:HB3	1.73	0.88
2:Ac:15:THR:HG22	2:Ac:16:ARG:HH12	1.38	0.88
4:Ae:76:ILE:HG12	4:Ae:77:PRO:HD2	1.55	0.88
30:AG:64:THR:HG23	30:AG:66:GLN:H	1.38	0.88
34:AN:133:GLN:HG2	34:AN:134:ARG:H	1.36	0.88
26:BC:215:VAL:HG23	26:BC:225:ILE:HD11	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:8:PRO:HB3	32:BI:14:ASP:H	1.39	0.88
57:BA:2359:C:H2'	57:BA:2360:A:H5'	1.56	0.88
12:Am:14:ARG:HD2	12:Am:42:ALA:HA	1.52	0.88
31:AH:70:THR:HG22	31:AH:74:ASN:HD21	1.38	0.88
52:A5:53:ALA:HB3	52:A5:55:ARG:NH2	1.88	0.88
19:Bt:103:GLY:H	22:Ba:192:U:H4'	1.36	0.88
6:Ag:102:ARG:HH22	22:Aa:939:G:H5"	1.38	0.88
9:Aj:32:ALA:CB	9:Aj:76:ASN:HB3	2.03	0.88
29:AF:28:ILE:HG21	29:AF:116:ASP:HB2	1.56	0.88
32:AI:8:PRO:HB3	32:AI:14:ASP:H	1.39	0.88
55:A8:61:LEU:CD1	55:A8:62:LEU:H	1.87	0.88
57:AA:1899:G:N2	57:AA:1902:C:N4	2.21	0.88
34:BN:133:GLN:HG2	34:BN:134:ARG:H	1.36	0.88
8:Ai:53:VAL:HG12	8:Ai:95:LYS:HE3	1.54	0.88
44:AX:64:LYS:HZ3	44:AX:73:ARG:HE	1.21	0.88
46:AZ:116:VAL:HB	46:AZ:175:VAL:HG22	1.54	0.88
55:A8:61:LEU:HD13	55:A8:62:LEU:H	1.39	0.88
57:AA:2359:C:H2'	57:AA:2360:A:H5'	1.55	0.88
2:Bc:206:GLU:HG2	2:Bc:207:VAL:H	1.39	0.88
21:By:8:ASP:HB2	21:By:76:ILE:HG22	1.52	0.88
31:BH:19:VAL:HG21	31:BH:44:VAL:HA	1.56	0.88
36:BP:18:ARG:HB3	36:BP:18:ARG:NH1	1.87	0.88
2:Ac:134:ILE:HD11	2:Ac:153:VAL:HG23	1.56	0.88
12:Am:15:VAL:O	12:Am:19:LEU:HD23	1.74	0.88
39:AS:30:ARG:HH22	39:AS:62:LYS:HD2	1.37	0.88
45:AY:44:ILE:O	45:AY:62:GLU:HG3	1.73	0.88
57:BA:1019:U:HO2'	57:BA:1021:A:H2	0.92	0.88
57:BA:1022:G:N2	57:BA:1142(A):A:H2	1.72	0.88
22:Aa:976:G:H5'	22:Aa:1358:U:O2'	1.73	0.88
39:AS:29:PHE:HE1	58:AB:6:C:HO2'	0.88	0.88
57:AA:673:C:H5'	57:AA:673:C:H6	1.37	0.88
7:Bh:12:ARG:NH1	7:Bh:26:VAL:HA	1.89	0.88
14:Bo:82:ILE:HG23	14:Bo:83:GLU:H	1.39	0.88
27:BD:24:ILE:CD1	27:BD:25:THR:H	1.86	0.88
29:BF:103:LYS:HA	29:BF:106:ARG:HG3	1.56	0.88
30:BG:139:LEU:HA	30:BG:144:ILE:HG21	1.56	0.88
32:BI:113:ARG:NH1	32:BI:113:ARG:HB3	1.89	0.88
39:BS:30:ARG:HH22	39:BS:62:LYS:HD2	1.37	0.88
45:BY:79:CYS:SG	45:BY:80:GLY:N	2.45	0.88
9:Aj:37:PRO:HA	9:Aj:72:VAL:HG22	1.55	0.87
27:AD:44:ASN:CB	27:AD:49:ILE:HA	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:202:LYS:O	28:AE:203:LYS:HB3	1.72	0.87
4:Be:76:ILE:HG12	4:Be:77:PRO:HD2	1.54	0.87
24:Bv:72:A:C2'	24:Bv:73:A:H5"	2.04	0.87
52:B5:51:TYR:HH	52:B5:52:TYR:HD2	0.89	0.87
7:Ah:12:ARG:NH1	7:Ah:26:VAL:HA	1.89	0.87
18:As:20:LEU:HA	18:As:23:ASN:ND2	1.90	0.87
42:AV:24:LYS:HE2	42:AV:90:PRO:HB2	1.56	0.87
57:AA:271(M):G:H2'	57:AA:271(N):U:H5"	1.54	0.87
57:AA:2134:A:H61	57:AA:2157:G:H1'	1.38	0.87
9:Bj:16:LEU:HD23	9:Bj:94:VAL:HG13	1.55	0.87
12:Bm:69:GLU:HA	12:Bm:71:ARG:N	1.87	0.87
13:Bn:27:CYS:SG	13:Bn:29:ARG:HB2	2.14	0.87
24:Bv:4:G:HO2'	24:Bv:5:G:H8	1.17	0.87
36:BP:7:ARG:HA	36:BP:7:ARG:HH11	1.39	0.87
9:Aj:48:THR:HA	9:Aj:62:HIS:HB3	1.54	0.87
10:Ak:43:SER:HA	10:Ak:47:VAL:HG21	1.56	0.87
29:AF:178:PRO:HB2	29:AF:201:VAL:HG11	1.54	0.87
33:AJ:67:GLY:HA2	33:AJ:71:LEU:O	1.73	0.87
34:AN:18:ALA:HB1	34:AN:21:LYS:HB2	1.56	0.87
1:Bb:27:LYS:HD2	1:Bb:193:ASP:HB2	1.53	0.87
57:BA:1689:A:H62	57:BA:1698:A:H2	1.20	0.87
25:Aw:63:G:H2'	25:Aw:64:G:H8	1.38	0.87
41:AU:59:ARG:HD3	57:AA:1009:A:H5'	1.55	0.87
47:A0:23:VAL:HA	47:A0:38:VAL:HG22	1.56	0.87
8:Bi:103:THR:HG22	8:Bi:104:ARG:N	1.88	0.87
57:BA:2317:C:C2'	57:BA:2318:G:H5'	2.04	0.87
58:BB:7:G:C3'	58:BB:8:U:H5"	2.04	0.87
8:Ai:103:THR:HG22	8:Ai:104:ARG:H	1.39	0.87
57:AA:1899:G:H22	57:AA:1902:C:H41	1.18	0.87
3:Bd:129:ASN:HD22	3:Bd:129:ASN:N	1.68	0.87
32:BI:82:ARG:HG2	32:BI:145:VAL:HG11	1.56	0.87
36:BP:45:LEU:HD23	36:BP:46:LYS:H	1.37	0.87
40:BT:28:VAL:HB	40:BT:88:ILE:HG12	1.57	0.87
26:AC:3:LYS:HE3	57:AA:2107:C:H5'	1.57	0.87
41:BU:101:ARG:HH11	41:BU:101:ARG:HB2	1.38	0.87
57:BA:2134:A:H61	57:BA:2157:G:H1'	1.38	0.87
1:Ab:77:ALA:HB2	1:Ab:211:ILE:HD13	1.56	0.87
30:AG:39:ILE:HD11	30:AG:92:VAL:HG12	1.57	0.87
36:AP:7:ARG:HA	36:AP:7:ARG:HH11	1.39	0.87
53:A6:10:LEU:HD23	53:A6:10:LEU:H	1.36	0.87
57:AA:1536:C:H2'	57:AA:1537:G:O4'	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:40:ARG:HA	2:Bc:55:VAL:HG11	1.57	0.87
12:Bm:15:VAL:O	12:Bm:19:LEU:HD23	1.73	0.87
22:Ba:359:U:H2'	22:Ba:360:A:C8	2.10	0.87
36:BP:6:LEU:HD23	36:BP:6:LEU:H	1.40	0.87
36:BP:146:VAL:HG22	36:BP:147:LEU:H	1.38	0.87
57:BA:2068:U:N3	57:BA:2430:A:H2	1.71	0.87
19:At:103:GLY:H	22:Aa:192:U:H4'	1.39	0.87
22:Aa:1423:G:H5'	35:AO:49:ARG:NH2	1.90	0.87
31:AH:158:HIS:NE2	31:AH:170:ARG:HA	1.90	0.87
38:AR:10:LEU:HD22	38:AR:17:ARG:HD3	1.57	0.87
41:AU:101:ARG:HB2	41:AU:101:ARG:HH11	1.37	0.87
57:AA:1689:A:H62	57:AA:1698:A:H2	1.18	0.87
57:AA:2317:C:C2'	57:AA:2318:G:H5'	2.04	0.87
57:AA:2893:G:H5'	57:AA:2894:G:H5'	1.55	0.87
22:Ba:1423:G:H5'	35:BO:49:ARG:HH22	1.33	0.87
31:BH:158:HIS:NE2	31:BH:170:ARG:HA	1.89	0.87
34:BN:18:ALA:HB1	34:BN:21:LYS:HB2	1.57	0.87
49:B2:32:LEU:HD22	49:B2:53:LEU:HD13	1.54	0.87
3:Bd:90:GLY:HA2	3:Bd:204:ILE:HD11	1.57	0.87
8:Bi:47:LEU:N	8:Bi:47:LEU:CD1	2.38	0.87
18:Bs:20:LEU:HA	18:Bs:23:ASN:ND2	1.90	0.87
36:AP:45:LEU:HD23	36:AP:46:LYS:N	1.90	0.86
40:AT:102:ILE:O	40:AT:106:SER:HB3	1.74	0.86
47:A0:11:ARG:HB2	47:A0:11:ARG:HH11	1.40	0.86
8:Bi:53:VAL:HG12	8:Bi:95:LYS:HE3	1.57	0.86
53:B6:45:LYS:HG2	57:BA:2371:G:H4'	1.55	0.86
57:BA:2317:C:H2'	57:BA:2318:G:H5'	1.57	0.86
21:Ay:5:LEU:HD22	21:Ay:7:PHE:HE1	1.40	0.86
22:Aa:1504:G:OP1	22:Aa:1507:A:H4'	1.75	0.86
37:AQ:134:ARG:CZ	46:AZ:122:ARG:HE	1.88	0.86
45:AY:2:ARG:HD3	45:AY:3:VAL:HG23	1.57	0.86
57:AA:2068:U:N3	57:AA:2430:A:H2	1.72	0.86
28:BE:24:THR:HG23	28:BE:184:VAL:HG23	1.55	0.86
42:BV:46:VAL:HG22	42:BV:47:VAL:H	1.40	0.86
46:BZ:23:LYS:HD3	46:BZ:38:TYR:HE1	1.38	0.86
57:BA:1536:C:H2'	57:BA:1537:G:O4'	1.75	0.86
9:Aj:32:ALA:H	9:Aj:78:ASN:HD21	1.22	0.86
9:Bj:37:PRO:HA	9:Bj:72:VAL:HG22	1.56	0.86
34:BN:2:LYS:NZ	41:BU:95:LEU:HD21	1.91	0.86
34:AN:13:TRP:O	34:AN:135:PRO:HD2	1.74	0.86
46:AZ:17:ALA:HA	46:AZ:20:ARG:HB2	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:A6:27:LYS:HD2	53:A6:30:THR:HB	1.55	0.86
58:AB:7:G:C3'	58:AB:8:U:H5"	2.04	0.86
21:By:53:ILE:HD12	21:By:62:LEU:HD23	1.58	0.86
28:BE:61:ARG:H	28:BE:62:PRO:HD2	1.40	0.86
32:BI:113:ARG:HB3	32:BI:113:ARG:HH11	1.39	0.86
45:BY:7:VAL:HB	45:BY:8:LYS:HD2	1.57	0.86
57:BA:676:A:H8	57:BA:2069:G:H21	1.18	0.86
8:Ai:68:GLY:N	22:Aa:1250:A:H4'	1.90	0.86
9:Aj:48:THR:HA	9:Aj:62:HIS:CB	2.04	0.86
26:AC:215:VAL:HG23	26:AC:225:ILE:HD11	1.56	0.86
43:AW:96:ILE:HD11	57:AA:2012:G:H4'	1.57	0.86
57:AA:2728:U:O2'	57:AA:2729:G:H5'	1.74	0.86
29:BF:169:ASN:ND2	57:BA:322:A:H3'	1.91	0.86
38:BR:10:LEU:HD22	38:BR:17:ARG:HD3	1.57	0.86
18:As:6:LYS:H	18:As:6:LYS:HD2	1.40	0.86
50:A3:8:LEU:CD1	50:A3:31:LEU:HD23	2.05	0.86
14:Bo:39:LEU:HD12	14:Bo:56:LEU:HD13	1.57	0.86
27:BD:44:ASN:CB	27:BD:49:ILE:HA	2.04	0.86
29:BF:3:GLU:O	29:BF:19:GLU:HB2	1.76	0.86
50:B3:8:LEU:CD1	50:B3:31:LEU:HD23	2.04	0.86
7:Ah:11:THR:HG22	7:Ah:15:ASN:HD21	1.39	0.86
39:AS:97:ARG:HH21	39:AS:98:VAL:HA	1.39	0.86
57:AA:2801(A):A:H5'	57:AA:2802:G:H8	1.41	0.86
8:Bi:68:GLY:N	22:Ba:1250:A:H4'	1.90	0.86
29:BF:84:VAL:HG12	29:BF:85:GLY:N	1.88	0.86
38:BR:2:ARG:HD3	38:BR:5:LYS:HE2	1.57	0.86
2:Ac:206:GLU:HG2	2:Ac:207:VAL:H	1.39	0.86
3:Bd:177:ASP:HB3	3:Bd:182:LYS:HB2	1.57	0.86
9:Bj:48:THR:HA	9:Bj:62:HIS:CB	2.06	0.86
22:Ba:1129:C:H41	22:Ba:1135:U:H3	1.24	0.86
25:Bw:69:C:H2'	25:Bw:70:G:H8	1.39	0.86
38:BR:63:ARG:NE	57:BA:1453:U:H5'	1.88	0.86
36:AP:146:VAL:HG22	36:AP:147:LEU:H	1.38	0.86
38:AR:2:ARG:HD3	38:AR:5:LYS:HE2	1.58	0.86
38:AR:99:LYS:HD3	38:AR:99:LYS:H	1.39	0.86
58:AB:80:U:H2'	58:AB:81:G:H21	1.41	0.86
2:Ac:40:ARG:HA	2:Ac:55:VAL:HG11	1.56	0.86
36:AP:33:ARG:CZ	57:AA:587:C:H2'	2.05	0.86
1:Bb:77:ALA:HB2	1:Bb:211:ILE:HD13	1.57	0.86
55:B8:62:LEU:HD13	57:BA:242:G:C5'	2.02	0.86
57:BA:1021:A:H3'	57:BA:1021:A:H8	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2893:G:H5'	57:BA:2894:G:H5'	1.55	0.86
12:Am:69:GLU:HA	12:Am:71:ARG:N	1.89	0.85
34:AN:40:PRO:HB3	41:AU:68:ALA:HB2	1.58	0.85
42:AV:18:LEU:HD22	42:AV:19:LYS:H	1.40	0.85
42:AV:51:VAL:HG12	42:AV:52:VAL:H	1.37	0.85
18:Bs:40:ILE:HD13	18:Bs:62:ILE:HD13	1.58	0.85
36:BP:64:LYS:CB	55:B8:25:MET:HG3	2.04	0.85
36:BP:124:LYS:HD3	36:BP:143:GLY:HA3	1.56	0.85
57:BA:208:C:H2'	57:BA:209:C:H6	1.39	0.85
14:Ao:82:ILE:HG23	14:Ao:83:GLU:H	1.39	0.85
40:AT:85:LYS:NZ	40:AT:85:LYS:HB3	1.91	0.85
45:AY:81:LYS:HD3	45:AY:97:ARG:O	1.75	0.85
6:Bg:120:ILE:O	6:Bg:124:LEU:HB2	1.77	0.85
10:Bk:43:SER:HA	10:Bk:47:VAL:HG21	1.57	0.85
36:BP:17:LYS:O	36:BP:17:LYS:HG2	1.76	0.85
41:BU:91:ASP:OD1	41:BU:96:ALA:HB2	1.77	0.85
55:B8:61:LEU:CD1	55:B8:62:LEU:H	1.88	0.85
4:Ae:50:GLU:HB3	4:Ae:53:LEU:HD12	1.57	0.85
22:Aa:359:U:H2'	22:Aa:360:A:C8	2.10	0.85
36:AP:85:LEU:HD23	36:AP:85:LEU:H	1.39	0.85
55:A8:48:PHE:O	55:A8:49:VAL:HG22	1.75	0.85
28:BE:134:ILE:HG21	57:BA:2579:C:H4'	1.57	0.85
42:BV:18:LEU:HD22	42:BV:19:LYS:H	1.39	0.85
43:BW:5:ALA:HB2	43:BW:54:ALA:HB2	1.57	0.85
37:AQ:62:GLY:O	46:AZ:178:GLU:HB2	1.76	0.85
44:AX:80:ILE:HD13	44:AX:80:ILE:O	1.77	0.85
57:AA:2523:G:C2'	57:AA:2524:G:H5"	2.07	0.85
1:Bb:136:VAL:O	1:Bb:140:HIS:HB2	1.76	0.85
34:BN:66:LYS:NZ	57:BA:1140:C:H5"	1.91	0.85
36:BP:45:LEU:HD23	36:BP:46:LYS:N	1.90	0.85
45:BY:2:ARG:HD3	45:BY:3:VAL:HG23	1.58	0.85
7:Ah:11:THR:HG23	7:Ah:14:ARG:HH12	1.40	0.85
22:Aa:1129:C:H41	22:Aa:1135:U:H3	1.25	0.85
22:Aa:1422:G:H4'	35:AO:49:ARG:NH1	1.91	0.85
37:AQ:134:ARG:NH2	46:AZ:122:ARG:HE	1.74	0.85
57:AA:1537:G:H2'	57:AA:1538:G:H8	1.41	0.85
6:Bg:102:ARG:NH2	22:Ba:939:G:H5"	1.92	0.85
22:Ba:405:U:H3'	22:Ba:406:G:H5'	1.59	0.85
31:BH:9:ILE:HD12	31:BH:50:VAL:HB	1.56	0.85
10:Ak:22:HIS:HB3	10:Ak:29:ILE:HG23	1.59	0.85
12:Am:29:ARG:HB3	12:Am:64:TRP:CZ2	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:AR:33:ARG:HG3	38:AR:115:GLU:HG3	1.59	0.85
57:AA:364:C:H2'	57:AA:365:C:H5"	1.59	0.85
6:Bg:102:ARG:HH22	22:Ba:939:G:H5"	1.38	0.85
41:BU:59:ARG:HD3	57:BA:1009:A:H5'	1.57	0.85
57:BA:1537:G:H2'	57:BA:1538:G:H8	1.41	0.85
57:BA:1899:G:H22	57:BA:1902:C:N4	1.73	0.85
21:Ay:47:MET:HE2	21:Ay:91:VAL:HA	1.56	0.85
32:AI:101:LEU:HD23	32:AI:109:ILE:HG12	1.56	0.85
36:AP:64:LYS:CB	55:A8:25:MET:HG3	2.06	0.85
48:A1:52:ARG:HH12	57:AA:2218:U:H1'	1.42	0.85
57:AA:1540:U:H3'	57:AA:1541:G:H3'	1.58	0.85
30:BG:32:PRO:HB2	30:BG:172:LEU:HD12	1.56	0.85
37:BQ:134:ARG:CZ	46:BZ:122:ARG:HE	1.89	0.85
3:Ad:57:ARG:HB3	3:Ad:206:PHE:HB2	1.58	0.85
40:BT:85:LYS:HB3	40:BT:85:LYS:NZ	1.92	0.85
22:Aa:1321:C:H5'	22:Aa:1322:C:C5'	2.07	0.85
29:AF:103:LYS:HA	29:AF:106:ARG:HG3	1.58	0.85
57:AA:1019:U:HO2'	57:AA:1021:A:H2	0.92	0.85
30:BG:67:LYS:NZ	51:B4:5:ILE:HD11	1.90	0.85
30:BG:132:ASN:ND2	57:BA:2303:G:H1'	1.92	0.85
57:BA:1540:U:H3'	57:BA:1541:G:H3'	1.58	0.85
11:Al:25:PRO:C	11:Al:27:LEU:H	1.81	0.85
30:AG:46:ALA:HB3	30:AG:82:LEU:CD1	2.04	0.85
37:AQ:10:ARG:HB2	37:AQ:10:ARG:HH11	1.41	0.85
7:Bh:11:THR:HG23	7:Bh:14:ARG:HH12	1.42	0.85
27:BD:35:LYS:HD2	27:BD:35:LYS:C	2.01	0.85
44:BX:80:ILE:HD13	44:BX:80:ILE:O	1.75	0.85
57:AA:1899:G:H22	57:AA:1902:C:N4	1.74	0.84
12:Bm:65:LYS:HB2	12:Bm:66:LEU:HB2	0.87	0.84
36:BP:85:LEU:HD23	36:BP:85:LEU:H	1.41	0.84
52:B5:48:GLU:O	52:B5:49:CYS:SG	2.35	0.84
57:BA:2523:G:C2'	57:BA:2524:G:H5"	2.06	0.84
57:BA:2801(A):A:H5'	57:BA:2802:G:H8	1.41	0.84
30:AG:152:LEU:H	30:AG:152:LEU:CD2	1.90	0.84
45:AY:47:LYS:HD3	57:AA:481:G:OP2	1.78	0.84
12:Bm:15:VAL:HG12	12:Bm:45:VAL:HG22	1.60	0.84
22:Ba:1144:G:H21	22:Ba:1146:A:H62	1.25	0.84
30:BG:72:ARG:HB3	30:BG:86:MET:CA	2.07	0.84
43:BW:96:ILE:HD11	57:BA:2012:G:H4'	1.58	0.84
44:BX:64:LYS:HZ3	44:BX:73:ARG:HE	1.24	0.84
57:BA:2134:A:N6	57:BA:2157:G:H1'	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ah:11:THR:HG22	7:Ah:15:ASN:ND2	1.91	0.84
45:AY:47:LYS:HG2	57:AA:482:A:H4'	1.58	0.84
18:Bs:6:LYS:HD2	18:Bs:6:LYS:H	1.41	0.84
22:Ba:434:U:H2'	22:Ba:435:C:C6	2.12	0.84
45:BY:13:VAL:HG22	45:BY:14:LEU:H	1.42	0.84
48:B1:56:GLN:NE2	48:B1:85:LEU:HD23	1.92	0.84
8:Ai:10:ARG:HD2	8:Ai:105:ASP:CB	2.06	0.84
22:Aa:434:U:H2'	22:Aa:435:C:C6	2.12	0.84
11:Bl:25:PRO:C	11:Bl:27:LEU:H	1.81	0.84
46:BZ:175:VAL:HB	46:BZ:176:PRO:HD2	1.58	0.84
12:Am:3:ARG:HD2	30:AG:113:ARG:HH12	1.42	0.84
52:A5:51:TYR:OH	52:A5:52:TYR:HD2	1.60	0.84
57:AA:1022:G:N2	57:AA:1142(A):A:H2	1.73	0.84
8:Bi:10:ARG:HD2	8:Bi:105:ASP:CB	2.07	0.84
22:Ba:1293:G:HO2'	22:Ba:1294:G:H8	1.26	0.84
27:AD:35:LYS:C	27:AD:35:LYS:HD2	2.02	0.84
29:AF:108:LYS:HD2	29:AF:112:MET:HE2	1.60	0.84
32:AI:98:ALA:O	32:AI:109:ILE:HD13	1.78	0.84
57:AA:1858:G:H2'	57:AA:1883:G:H22	1.43	0.84
6:Bg:120:ILE:HD12	6:Bg:120:ILE:H	1.43	0.84
12:Bm:69:GLU:HA	12:Bm:70:LEU:O	1.77	0.84
36:BP:9:ASN:H	36:BP:10:PRO:HD2	1.42	0.84
57:BA:1175:U:H4'	57:BA:1176:G:H5'	1.59	0.84
32:AI:124:GLY:O	32:AI:142:VAL:HB	1.78	0.84
40:AT:28:VAL:HB	40:AT:88:ILE:HG12	1.56	0.84
46:AZ:149:SER:HB2	46:AZ:172:ALA:O	1.78	0.84
47:A0:10:THR:HG22	47:A0:11:ARG:H	1.42	0.84
8:Bi:99:LEU:HB3	8:Bi:101:PHE:CD1	2.12	0.84
31:BH:70:THR:HG22	31:BH:74:ASN:HD21	1.42	0.84
42:BV:72:VAL:CG2	42:BV:85:LYS:HB3	2.08	0.84
1:Ab:136:VAL:O	1:Ab:140:HIS:HB2	1.78	0.84
18:As:40:ILE:HD13	18:As:62:ILE:HD13	1.59	0.84
28:AE:134:ILE:HG21	57:AA:2579:C:H4'	1.60	0.84
53:A6:54:ILE:HD13	57:AA:2420:C:H5'	1.60	0.84
57:AA:2134:A:N6	57:AA:2157:G:H1'	1.92	0.84
4:Be:93:PRO:HG2	7:Bh:105:ARG:HH21	1.42	0.84
22:Ba:1116:C:C2'	22:Ba:1117:G:H5"	2.08	0.84
29:BF:108:LYS:HD2	29:BF:112:MET:HE2	1.60	0.84
37:BQ:43:THR:OG1	37:BQ:46:GLN:HG3	1.78	0.84
39:BS:67:ARG:HB3	39:BS:67:ARG:NH1	1.92	0.84
22:Aa:1456:G:H2'	22:Aa:1457:G:H5'	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AF:3:GLU:O	29:AF:19:GLU:HB2	1.76	0.84
30:AG:106:LEU:HA	30:AG:110:ALA:CB	2.06	0.84
32:AI:82:ARG:HG2	32:AI:145:VAL:HG11	1.58	0.84
57:AA:2287:A:H62	57:AA:2344:U:H3	1.25	0.84
39:BS:107:GLU:HG3	57:BA:2377:A:H4'	1.57	0.84
46:BZ:31:ARG:NH1	46:BZ:31:ARG:HB2	1.92	0.84
52:B5:36:CYS:SG	52:B5:38:ALA:HB3	2.18	0.84
21:Ay:87:TYR:HE2	23:Ax:20:A:H2'	1.41	0.84
41:AU:112:ARG:HH12	42:AV:46:VAL:HG11	1.41	0.84
26:BC:3:LYS:HE3	57:BA:2107:C:H5'	1.57	0.84
45:BY:47:LYS:HD3	57:BA:481:G:OP2	1.78	0.84
50:B3:6:VAL:HB	50:B3:54:VAL:HG11	1.60	0.84
6:Ag:102:ARG:NH2	22:Aa:939:G:H5"	1.92	0.83
10:Ak:73:MET:HE1	10:Ak:102:GLY:HA3	1.59	0.83
21:Ay:15:TRP:CZ2	21:Ay:23:ARG:HG3	2.13	0.83
7:Bh:6:ILE:H	7:Bh:6:ILE:HD12	1.42	0.83
27:BD:242:ARG:HH21	57:BA:1826:G:C4'	1.89	0.83
29:BF:28:ILE:HG21	29:BF:116:ASP:HB2	1.58	0.83
22:Aa:1442(B):A:H2'	40:AT:118:ARG:NH1	1.94	0.83
36:AP:6:LEU:HD23	36:AP:6:LEU:H	1.42	0.83
36:AP:18:ARG:HD2	57:AA:662:G:OP1	1.76	0.83
38:AR:117:VAL:O	38:AR:118:GLU:HB2	1.78	0.83
4:Be:50:GLU:HB3	4:Be:53:LEU:HD12	1.58	0.83
4:Be:76:ILE:HD11	4:Be:142:LEU:HD11	1.58	0.83
28:BE:61:ARG:HD3	57:BA:2787:C:H1'	1.60	0.83
57:BA:654(H):G:H22	57:BA:654(J):A:H8	1.25	0.83
9:Aj:50:ILE:HA	9:Aj:60:ARG:HB3	1.59	0.83
29:AF:84:VAL:HG12	29:AF:85:GLY:N	1.92	0.83
30:AG:170:ARG:NH2	30:AG:182:LYS:HE2	1.92	0.83
39:AS:107:GLU:HG3	57:AA:2377:A:H4'	1.57	0.83
57:AA:1175:U:H4'	57:AA:1176:G:H5'	1.59	0.83
57:AA:2317:C:H2'	57:AA:2318:G:H5'	1.58	0.83
18:Bs:50:ALA:HB1	18:Bs:57:HIS:HB3	1.60	0.83
21:By:43:LYS:HA	21:By:51:TYR:HA	1.59	0.83
27:BD:70:TRP:CH2	27:BD:150:LYS:HA	2.13	0.83
55:B8:51:ALA:N	55:B8:53:PRO:HD2	1.94	0.83
57:BA:2206:G:H21	57:BA:2207:G:C5'	1.90	0.83
3:Ad:177:ASP:HB3	3:Ad:182:LYS:HB2	1.58	0.83
9:Aj:16:LEU:HD23	9:Aj:94:VAL:HG13	1.57	0.83
22:Aa:1033:G:H2'	22:Aa:1034:G:H5'	1.61	0.83
36:AP:39:LYS:HD2	57:AA:806:C:OP2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:7:THR:HB	8:Bi:83:ARG:HH11	1.42	0.83
10:Bk:73:MET:HE1	10:Bk:102:GLY:HA3	1.61	0.83
34:BN:13:TRP:O	34:BN:135:PRO:HD2	1.78	0.83
45:BY:81:LYS:HD3	45:BY:97:ARG:O	1.77	0.83
55:B8:14:VAL:HG21	55:B8:22:VAL:HG12	1.61	0.83
43:AW:5:ALA:HB2	43:AW:54:ALA:HB2	1.59	0.83
9:Bj:32:ALA:H	9:Bj:78:ASN:HD21	1.23	0.83
28:BE:132:HIS:ND1	57:BA:1658:C:OP1	2.11	0.83
30:BG:111:LEU:HA	30:BG:114:ILE:HD12	0.91	0.83
55:B8:33:ASN:HD22	55:B8:33:ASN:N	1.68	0.83
55:B8:48:PHE:O	55:B8:49:VAL:HG22	1.77	0.83
57:BA:673:C:H5'	57:BA:673:C:H6	1.44	0.83
57:BA:2287:A:H62	57:BA:2344:U:H3	1.25	0.83
2:Ac:125:GLU:HG2	2:Ac:190:ARG:H	1.42	0.83
3:Ad:90:GLY:HA2	3:Ad:204:ILE:HD11	1.59	0.83
21:Ay:54:LYS:HG3	21:Ay:61:ARG:HD2	1.60	0.83
26:AC:6:LYS:HB2	57:AA:2132:U:H3	1.43	0.83
57:AA:1021:A:H3'	57:AA:1021:A:H8	1.42	0.83
4:Be:20:GLN:HA	22:Ba:922:G:H4'	1.59	0.83
39:BS:89:ARG:O	39:BS:92:TYR:HB3	1.77	0.83
57:BA:1021:A:H3'	57:BA:1021:A:C8	2.14	0.83
27:AD:70:TRP:CH2	27:AD:150:LYS:HA	2.13	0.83
46:AZ:70:LEU:HD11	46:AZ:98:MET:SD	2.19	0.83
1:Bb:18:GLY:H	1:Bb:42:ILE:CG2	1.92	0.83
9:Bj:48:THR:HA	9:Bj:62:HIS:HB3	1.58	0.83
46:BZ:183:LEU:HD23	46:BZ:184:ALA:N	1.94	0.83
7:Ah:6:ILE:HD12	7:Ah:6:ILE:H	1.43	0.83
22:Aa:1239:A:H62	22:Aa:1299:A:H62	1.27	0.83
28:AE:61:ARG:HD3	57:AA:2787:C:H1'	1.59	0.83
45:AY:59:GLY:O	45:AY:60:PHE:HB2	1.79	0.83
1:Bb:93:VAL:HG11	1:Bb:97:TRP:HD1	1.44	0.83
32:BI:74:ASN:H	32:BI:74:ASN:ND2	1.74	0.83
57:BA:364:C:H2'	57:BA:365:C:H5"	1.58	0.83
6:Ag:18:TYR:HD2	6:Ag:59:LEU:HD22	1.43	0.83
9:Aj:27:ALA:HB2	9:Aj:85:LEU:HD11	1.61	0.83
18:As:78:ARG:HH21	22:Aa:1223:C:P	2.02	0.83
44:AX:64:LYS:HZ2	44:AX:73:ARG:HH21	1.27	0.83
3:Bd:57:ARG:HB3	3:Bd:206:PHE:HB2	1.57	0.83
46:BZ:103:ARG:HD2	46:BZ:136:PHE:HB2	1.60	0.83
55:B8:61:LEU:HD13	55:B8:62:LEU:H	1.40	0.83
57:AA:1019:U:H3	57:AA:1142(A):A:H62	1.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2245:U:H5'	57:AA:2246:G:H5'	1.61	0.83
8:Bi:48:GLU:N	8:Bi:49:PRO:CD	2.41	0.83
26:BC:11:LEU:HD22	26:BC:33:LEU:HA	1.59	0.83
37:BQ:27:VAL:HG12	37:BQ:28:ALA:N	1.93	0.83
47:B0:10:THR:HG22	47:B0:11:ARG:H	1.44	0.83
49:B2:53:LEU:HD22	49:B2:57:ILE:HD11	1.61	0.83
57:BA:2036:C:H5'	57:BA:2036:C:H6	1.44	0.83
12:Am:91:ARG:HB3	12:Am:96:LEU:HB2	1.61	0.82
26:AC:11:LEU:HD22	26:AC:33:LEU:HA	1.59	0.82
57:AA:654(V):A:H3'	57:AA:655:A:H2'	1.61	0.82
29:BF:169:ASN:HD21	57:BA:322:A:H3'	1.44	0.82
46:BZ:110:GLY:HA3	46:BZ:146:ILE:HG23	1.61	0.82
57:BA:2728:U:O2'	57:BA:2729:G:H5'	1.78	0.82
12:Am:15:VAL:HG12	12:Am:45:VAL:HG22	1.60	0.82
45:AY:28:LYS:H	45:AY:28:LYS:HZ2	0.86	0.82
57:AA:2206:G:H21	57:AA:2207:G:C5'	1.92	0.82
18:Bs:16:LEU:H	18:Bs:16:LEU:HD12	1.44	0.82
21:By:54:LYS:NZ	23:Bx:20:A:O2'	2.12	0.82
30:BG:116:ASP:O	30:BG:117:PHE:HB2	1.79	0.82
34:BN:3:THR:O	34:BN:5:VAL:N	2.12	0.82
22:Aa:1144:G:H21	22:Aa:1146:A:H62	1.25	0.82
22:Aa:1238:A:N7	22:Aa:1303:C:H1'	1.95	0.82
34:AN:66:LYS:NZ	57:AA:1140:C:H5"	1.93	0.82
43:AW:9:TYR:H	43:AW:102:HIS:CD2	1.97	0.82
57:AA:654(H):G:H22	57:AA:654(J):A:H8	1.25	0.82
57:AA:1697:G:H3'	57:AA:1698:A:H5"	1.61	0.82
9:Bj:27:ALA:HB2	9:Bj:85:LEU:HD11	1.60	0.82
21:By:11:ALA:O	21:By:15:TRP:HB2	1.79	0.82
32:BI:118:LYS:HG2	32:BI:119:PRO:CD	2.05	0.82
12:Am:29:ARG:HH11	12:Am:64:TRP:CG	1.97	0.82
37:AQ:16:ARG:HH22	57:AA:952:G:P	2.00	0.82
30:BG:67:LYS:HD3	51:B4:5:ILE:HG12	1.60	0.82
30:BG:67:LYS:HE3	58:BB:42:C:H5"	1.58	0.82
36:BP:18:ARG:HD2	57:BA:662:G:OP1	1.79	0.82
36:BP:63:PRO:HB3	55:B8:13:ARG:HB3	1.60	0.82
18:As:47:HIS:O	18:As:62:ILE:HG22	1.79	0.82
6:Bg:18:TYR:HD2	6:Bg:59:LEU:HD22	1.44	0.82
12:Bm:29:ARG:HB3	12:Bm:64:TRP:CZ2	2.13	0.82
12:Bm:29:ARG:HD3	12:Bm:64:TRP:CE2	2.15	0.82
21:By:52:LYS:HZ1	21:By:54:LYS:HZ2	1.27	0.82
22:Ba:1321:C:H5'	22:Ba:1322:C:C5'	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:99:LYS:HD3	38:BR:99:LYS:H	1.42	0.82
8:Ai:10:ARG:HD2	8:Ai:105:ASP:HB3	1.61	0.82
28:AE:36:ARG:HH21	28:AE:88:GLY:HA2	1.42	0.82
29:AF:169:ASN:ND2	57:AA:322:A:H3'	1.94	0.82
36:AP:17:LYS:HG2	36:AP:17:LYS:O	1.78	0.82
30:BG:130:ASN:ND2	30:BG:160:VAL:HG13	1.93	0.82
40:BT:89:VAL:HG11	40:BT:91:ARG:HE	1.44	0.82
45:AY:79:CYS:SG	45:AY:80:GLY:N	2.45	0.82
48:A1:52:ARG:NH1	57:AA:2218:U:H1'	1.95	0.82
50:A3:19:GLN:HE22	50:A3:52:HIS:HE1	1.26	0.82
57:AA:271(D):G:H1	57:AA:271(T):C:H42	1.27	0.82
57:AA:545:C:H3'	57:AA:547:A:H5"	1.61	0.82
32:BI:101:LEU:HD23	32:BI:109:ILE:HG12	1.61	0.82
42:BV:19:LYS:NZ	42:BV:20:LEU:H	1.77	0.82
36:AP:55:ARG:HG2	36:AP:56:SER:N	1.92	0.82
37:AQ:27:VAL:HG12	37:AQ:28:ALA:N	1.93	0.82
49:A2:13:ALA:HA	49:A2:16:LEU:HG	1.62	0.82
50:A3:6:VAL:HB	50:A3:54:VAL:HG11	1.59	0.82
2:Bc:125:GLU:HG2	2:Bc:190:ARG:H	1.43	0.82
8:Bi:99:LEU:HB3	8:Bi:101:PHE:HD1	1.43	0.82
9:Bj:50:ILE:H	9:Bj:50:ILE:CD1	1.92	0.82
41:BU:112:ARG:HH12	42:BV:46:VAL:HG11	1.45	0.82
10:Ak:79:SER:HB2	10:Ak:106:LYS:HD2	1.62	0.82
18:As:50:ALA:HB1	18:As:57:HIS:HB3	1.62	0.82
36:AP:9:ASN:H	36:AP:10:PRO:HD2	1.44	0.82
46:AZ:56:VAL:HG13	46:AZ:69:THR:O	1.79	0.82
22:Ba:1239:A:H62	22:Ba:1299:A:H62	1.26	0.82
57:BA:203:C:H3'	57:BA:204:A:H5"	1.58	0.82
57:BA:259:G:H21	57:BA:621:A:H8	1.28	0.82
57:BA:545:C:H3'	57:BA:547:A:H5"	1.62	0.82
57:BA:1015:G:H8	57:BA:1015:G:H5'	1.44	0.82
10:Ak:34:ASP:HB3	10:Ak:40:ILE:HD11	1.61	0.82
2:Bc:182:ILE:HG12	2:Bc:203:PHE:HA	1.60	0.82
30:BG:32:PRO:HB2	30:BG:172:LEU:CD1	2.10	0.82
34:BN:66:LYS:HZ3	57:BA:1140:C:H5"	1.44	0.82
39:BS:52:SER:HB2	39:BS:55:ALA:HB3	1.60	0.82
43:BW:9:TYR:H	43:BW:102:HIS:CD2	1.98	0.82
52:B5:51:TYR:OH	52:B5:52:TYR:HD2	1.63	0.82
57:BA:2327:A:H2'	57:BA:2328:A:C8	2.13	0.82
14:Ao:39:LEU:HD12	14:Ao:56:LEU:HD13	1.61	0.81
42:AV:19:LYS:HZ3	42:AV:20:LEU:H	1.25	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Bv:6:G:H1	24:Bv:67:C:H42	1.28	0.81
36:BP:71:VAL:HG12	36:BP:72:PRO:HD3	1.62	0.81
57:BA:2777:G:H4'	57:BA:2778:A:H5'	1.62	0.81
2:Ac:182:ILE:HG12	2:Ac:203:PHE:HA	1.61	0.81
3:Ad:196:LEU:HD12	3:Ad:196:LEU:H	1.44	0.81
18:As:16:LEU:H	18:As:16:LEU:HD12	1.44	0.81
21:Ay:39:ILE:HB	21:Ay:42:ASN:ND2	1.95	0.81
24:Av:47:U:H3'	24:Av:48:C:C5'	2.11	0.81
28:AE:4:ILE:HD13	28:AE:28:ALA:HB1	1.61	0.81
32:AI:110:ASP:CG	32:AI:113:ARG:HB2	2.05	0.81
57:AA:330:A:H2	57:AA:1210:A:H2'	1.44	0.81
57:AA:1348:G:H2'	57:AA:1349:A:H5"	1.62	0.81
26:BC:26:ALA:O	26:BC:30:VAL:HG23	1.80	0.81
29:BF:8:GLN:HB3	29:BF:126:VAL:HA	1.62	0.81
34:BN:40:PRO:HB3	41:BU:68:ALA:HB2	1.62	0.81
41:BU:47:TYR:HA	41:BU:50:ARG:NH2	1.95	0.81
57:BA:145:G:C2'	57:BA:146:G:H5"	2.10	0.81
3:Ad:96:LEU:HB3	3:Ad:139:ARG:HH22	1.46	0.81
4:Ae:93:PRO:HG2	7:Ah:105:ARG:HH21	1.44	0.81
7:Ah:36:LEU:HA	7:Ah:39:LEU:HD23	1.62	0.81
22:Aa:624:C:H2'	22:Aa:625:G:H8	1.45	0.81
22:Aa:1452:C:H4'	22:Aa:1456:G:H5"	1.62	0.81
28:AE:69:LYS:HZ1	28:AE:90:THR:H	1.28	0.81
30:AG:109:VAL:CG1	30:AG:113:ARG:HD3	2.10	0.81
35:AO:105:GLU:HA	35:AO:108:GLU:OE1	1.80	0.81
41:AU:47:TYR:HA	41:AU:50:ARG:NH2	1.95	0.81
48:A1:51:VAL:HG21	48:A1:74:VAL:CG2	2.10	0.81
3:Bd:196:LEU:H	3:Bd:196:LEU:HD12	1.45	0.81
9:Bj:49:VAL:HG23	13:Bn:41:ARG:HB2	1.60	0.81
18:Bs:63:THR:O	18:Bs:66:MET:HG2	1.79	0.81
26:BC:6:LYS:HB2	57:BA:2132:U:H3	1.43	0.81
34:BN:15:LEU:HD12	34:BN:136:GLU:HG3	1.62	0.81
45:BY:59:GLY:O	45:BY:60:PHE:HB2	1.79	0.81
57:BA:2189:U:C3'	57:BA:2190:G:H5"	2.10	0.81
10:Ak:58:PRO:HD3	10:Ak:89:ALA:HB1	1.63	0.81
22:Aa:1256:A:H61	22:Aa:1278:U:H1'	1.45	0.81
26:AC:26:ALA:O	26:AC:30:VAL:HG23	1.81	0.81
39:AS:67:ARG:HB3	39:AS:67:ARG:NH1	1.95	0.81
42:AV:62:LEU:HD21	42:AV:95:LEU:HB2	1.63	0.81
57:AA:528:A:H2	57:AA:2043:C:H4'	1.45	0.81
57:AA:621:A:H2'	57:AA:622:G:H5'	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2308:G:O6	57:BA:2310:A:H2'	1.80	0.81
2:Ac:134:ILE:HD11	2:Ac:153:VAL:CG2	2.09	0.81
26:AC:6:LYS:HB2	57:AA:2132:U:N3	1.96	0.81
29:AF:22:ALA:HB1	29:AF:26:ALA:HB2	1.62	0.81
57:BA:2121:G:H1	57:BA:2177:C:H42	1.28	0.81
13:An:45:ARG:NH2	22:Aa:1060:C:H5'	1.96	0.81
22:Aa:1519:A:H2'	22:Aa:1520:G:H5'	1.62	0.81
29:AF:123:LEU:HD12	29:AF:124:LEU:H	1.45	0.81
10:Bk:34:ASP:HB3	10:Bk:40:ILE:HD11	1.62	0.81
22:Ba:818:G:O2'	22:Ba:819:A:H5"	1.80	0.81
26:BC:53:ARG:HD3	26:BC:53:ARG:H	1.46	0.81
57:BA:1348:G:H2'	57:BA:1349:A:H5"	1.62	0.81
55:A8:51:ALA:N	55:A8:53:PRO:HD2	1.95	0.81
57:AA:2777:G:H4'	57:AA:2778:A:H5'	1.62	0.81
6:Bg:100:ALA:O	6:Bg:104:LEU:HD23	1.81	0.81
12:Bm:66:LEU:H	12:Bm:70:LEU:CB	1.94	0.81
27:BD:35:LYS:HZ3	27:BD:36:PRO:HD3	1.45	0.81
57:BA:1047:G:H2'	57:BA:1110:G:N2	1.96	0.81
2:Ac:64:VAL:CG1	2:Ac:66:VAL:HG23	2.11	0.81
4:Ae:102:ALA:HB2	4:Ae:120:THR:OG1	1.80	0.81
28:AE:24:THR:CG2	28:AE:184:VAL:HG23	2.11	0.81
33:AJ:29:TYR:H	33:AJ:83:TYR:CB	1.94	0.81
57:AA:155:U:H2'	57:AA:156:U:H5"	1.62	0.81
2:Bc:134:ILE:HD11	2:Bc:153:VAL:HG23	1.61	0.81
37:BQ:10:ARG:HB2	37:BQ:10:ARG:HH11	1.43	0.81
38:BR:33:ARG:HG3	38:BR:115:GLU:HG3	1.62	0.81
57:BA:1858:G:H2'	57:BA:1883:G:H22	1.43	0.81
58:BB:80:U:H2'	58:BB:81:G:H21	1.46	0.81
12:Am:78:ILE:HG22	12:Am:93:ARG:HH22	1.45	0.81
30:AG:45:GLU:N	30:AG:88:ILE:HG13	1.96	0.81
33:AJ:11:ALA:HB2	57:AA:1046:A:C5'	2.06	0.81
33:AJ:11:ALA:CB	57:AA:1046:A:H5"	2.09	0.81
12:Bm:90:LEU:HA	12:Bm:93:ARG:HB2	1.62	0.81
15:Bp:67:THR:HG22	15:Bp:68:ASP:H	1.46	0.81
16:Bq:26:GLN:HG2	16:Bq:37:LYS:HG2	1.63	0.81
18:Bs:78:ARG:HH21	22:Ba:1223:C:P	2.04	0.81
35:BO:105:GLU:HA	35:BO:108:GLU:OE1	1.79	0.81
55:B8:30:ARG:HA	55:B8:30:ARG:HE	1.46	0.81
57:BA:1639:U:O2'	57:BA:1640:C:H5"	1.81	0.81
8:Ai:103:THR:HG22	8:Ai:104:ARG:N	1.96	0.81
17:Ar:58:LEU:H	17:Ar:58:LEU:HD12	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:179:GLU:HB3	28:AE:181:LEU:CD2	2.11	0.81
42:AV:19:LYS:NZ	42:AV:20:LEU:H	1.78	0.81
53:A6:48:VAL:HG23	53:A6:49:HIS:H	1.46	0.81
57:AA:2189:U:C3'	57:AA:2190:G:H5"	2.11	0.81
1:Bb:18:GLY:N	1:Bb:42:ILE:HG22	1.95	0.81
1:Bb:98:LEU:HB2	1:Bb:101:MET:HE3	1.62	0.81
10:Bk:22:HIS:HB3	10:Bk:29:ILE:HG23	1.62	0.81
12:Bm:70:LEU:CD2	12:Bm:71:ARG:N	2.44	0.81
22:Ba:1256:A:H61	22:Ba:1278:U:H1'	1.46	0.81
57:BA:152:G:H1	57:BA:174:C:H42	1.28	0.81
57:BA:155:U:H2'	57:BA:156:U:H5"	1.61	0.81
1:Ab:93:VAL:HG11	1:Ab:97:TRP:HD1	1.44	0.80
22:Aa:1116:C:C2'	22:Aa:1117:G:H5"	2.10	0.80
30:AG:105:LYS:HD3	30:AG:143:GLU:OE1	1.80	0.80
40:AT:89:VAL:HG11	40:AT:91:ARG:HE	1.46	0.80
49:A2:67:LYS:O	49:A2:70:GLN:HG2	1.81	0.80
10:Bk:124:LYS:HZ3	10:Bk:125:PHE:HE1	1.29	0.80
29:BF:68:LYS:HE2	57:BA:2444:G:OP2	1.81	0.80
53:B6:48:VAL:HG23	53:B6:49:HIS:H	1.46	0.80
47:A0:48:GLY:HA3	47:A0:80:HIS:ND1	1.94	0.80
57:AA:603:A:H4'	57:AA:604:G:O5'	1.82	0.80
57:AA:2308:G:O6	57:AA:2310:A:H2'	1.81	0.80
8:Bi:28:VAL:HG22	8:Bi:63:ILE:HB	1.61	0.80
28:BE:36:ARG:HH21	28:BE:88:GLY:HA2	1.45	0.80
39:BS:62:LYS:HB2	58:BB:50:G:OP1	1.81	0.80
57:BA:184:C:H2'	57:BA:185:U:C6	2.17	0.80
57:BA:1038:C:H42	57:BA:1117:G:H1	1.29	0.80
2:Ac:47:LEU:HD21	2:Ac:68:VAL:HG11	1.61	0.80
4:Ae:76:ILE:HD11	4:Ae:142:LEU:HD11	1.62	0.80
7:Ah:1:MET:HE2	7:Ah:1:MET:H3	1.45	0.80
12:Am:2:ALA:HB3	12:Am:9:ILE:HG23	1.64	0.80
48:A1:45:ASN:HD21	57:AA:2090:G:H21	1.24	0.80
1:Bb:166:ASP:HB3	1:Bb:169:LYS:HB2	1.62	0.80
3:Bd:30:LYS:C	3:Bd:32:ALA:H	1.89	0.80
10:Bk:15:ALA:HB1	10:Bk:78:GLN:HG3	1.64	0.80
31:BH:105:LEU:HD23	31:BH:105:LEU:H	1.45	0.80
37:BQ:16:ARG:HH22	57:BA:952:G:P	2.03	0.80
41:BU:25:TRP:CZ3	57:BA:17:G:H4'	2.15	0.80
51:B4:33:VAL:HG12	51:B4:34:GLU:H	1.46	0.80
1:Ab:204:ASN:ND2	1:Ab:206:ASP:H	1.80	0.80
19:At:75:ASN:HD22	19:At:75:ASN:N	1.78	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1442(A):G:H22	40:AT:119:LYS:HB2	1.45	0.80
36:AP:63:PRO:HB3	55:A8:13:ARG:HB3	1.61	0.80
40:AT:60:THR:HG22	40:AT:77:PRO:HA	1.63	0.80
1:Bb:51:LEU:HD23	1:Bb:201:ILE:HD12	1.63	0.80
22:Ba:1238:A:N7	22:Ba:1303:C:H1'	1.95	0.80
27:BD:77:ALA:HB2	27:BD:97:TYR:HA	1.63	0.80
31:BH:83:TYR:HB3	31:BH:134:SER:HA	1.62	0.80
32:BI:111:PRO:HG2	32:BI:112:LYS:HD2	1.63	0.80
57:BA:271(D):G:H1	57:BA:271(T):C:H42	1.27	0.80
57:BA:1403:C:H5"	57:BA:1471:A:H1'	1.62	0.80
6:Ag:100:ALA:O	6:Ag:104:LEU:HD23	1.81	0.80
15:Ap:67:THR:HG22	15:Ap:68:ASP:H	1.43	0.80
21:Ay:5:LEU:HA	21:Ay:73:VAL:HB	1.63	0.80
30:AG:105:LYS:HB3	30:AG:142:PRO:HG3	1.63	0.80
31:AH:105:LEU:HD23	31:AH:105:LEU:H	1.47	0.80
41:AU:44:ASN:ND2	42:AV:75:PHE:HB3	1.97	0.80
42:AV:46:VAL:HG22	42:AV:47:VAL:H	1.47	0.80
47:A0:48:GLY:CA	47:A0:80:HIS:HD1	1.95	0.80
57:AA:1948:G:H5'	57:AA:1948:G:C8	2.17	0.80
8:Bi:88:TYR:O	8:Bi:89:ASN:HB2	1.79	0.80
29:BF:22:ALA:HB1	29:BF:26:ALA:HB2	1.64	0.80
57:BA:2245:U:H5'	57:BA:2246:G:H5'	1.61	0.80
6:Ag:120:ILE:H	6:Ag:120:ILE:HD12	1.46	0.80
9:Aj:6:ILE:HD12	9:Aj:6:ILE:O	1.82	0.80
27:AD:24:ILE:O	27:AD:25:THR:O	1.98	0.80
57:AA:2537:U:H2'	57:AA:2538:C:C6	2.17	0.80
17:Br:58:LEU:H	17:Br:58:LEU:HD12	1.45	0.80
26:BC:6:LYS:HB2	57:BA:2132:U:N3	1.95	0.80
41:BU:34:LYS:HE2	41:BU:34:LYS:HA	1.62	0.80
1:Ab:164:VAL:HG23	1:Ab:186:ALA:CB	2.12	0.80
22:Aa:1141:C:H2'	22:Aa:1142:G:C8	2.16	0.80
36:AP:41:ARG:HH12	36:AP:45:LEU:HD12	1.47	0.80
39:AS:13:ARG:HG3	39:AS:14:VAL:H	1.46	0.80
57:AA:1887:C:H2'	57:AA:1888:G:H5"	1.63	0.80
57:AA:2327:A:H2'	57:AA:2328:A:C8	2.17	0.80
2:Bc:64:VAL:CG1	2:Bc:66:VAL:HG23	2.12	0.80
9:Bj:50:ILE:HA	9:Bj:60:ARG:HB3	1.61	0.80
12:Bm:91:ARG:HD3	18:Bs:81:ARG:NH2	1.95	0.80
46:BZ:81:ARG:HB3	46:BZ:81:ARG:HH11	1.42	0.80
1:Ab:51:LEU:HD23	1:Ab:201:ILE:HD12	1.63	0.80
1:Ab:98:LEU:HB2	1:Ab:101:MET:HE3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ah:63:LEU:HD22	7:Ah:63:LEU:H	1.44	0.80
8:Ai:82:ALA:HB1	8:Ai:96:LEU:HD11	1.64	0.80
9:Aj:49:VAL:HG21	13:An:41:ARG:HB2	1.64	0.80
12:Am:40:ASN:HD22	12:Am:43:THR:HG23	1.44	0.80
15:Ap:10:GLY:HA2	22:Aa:624:C:O3'	1.82	0.80
18:As:63:THR:O	18:As:66:MET:HG2	1.81	0.80
34:AN:3:THR:O	34:AN:5:VAL:N	2.14	0.80
36:AP:124:LYS:HD3	36:AP:143:GLY:HA3	1.63	0.80
37:AQ:132:VAL:HG11	46:AZ:81:ARG:NH2	1.97	0.80
40:AT:6:LEU:HA	40:AT:9:LEU:HD12	1.64	0.80
52:A5:36:CYS:SG	52:A5:38:ALA:HB3	2.22	0.80
18:Bs:48:THR:HG22	18:Bs:61:TYR:HA	1.64	0.80
30:BG:34:LEU:HB3	30:BG:99:MET:HE1	1.64	0.80
36:BP:41:ARG:HH12	36:BP:45:LEU:HD12	1.44	0.80
40:BT:85:LYS:HB3	40:BT:85:LYS:HZ2	1.45	0.80
22:Aa:1003:G:C2'	22:Aa:1004:A:H4'	2.12	0.80
31:AH:30:LYS:HE3	31:AH:81:GLU:N	1.96	0.80
34:AN:2:LYS:HZ3	41:AU:95:LEU:HD21	1.44	0.80
49:A2:2:LYS:HD2	49:A2:5:GLU:OE1	1.82	0.80
49:A2:2:LYS:CB	57:AA:97:C:H5"	2.12	0.80
12:Bm:2:ALA:HB3	12:Bm:9:ILE:HG23	1.63	0.80
30:BG:58:GLN:O	30:BG:62:LEU:HD13	1.82	0.80
32:BI:79:ILE:CG2	32:BI:81:VAL:HG12	2.10	0.80
36:BP:66:GLY:HA3	57:BA:2415:G:O3'	1.81	0.80
42:BV:19:LYS:HZ3	42:BV:20:LEU:H	1.29	0.80
50:B3:19:GLN:HE22	50:B3:52:HIS:HE1	1.29	0.80
53:B6:54:ILE:HD13	57:BA:2420:C:H5'	1.63	0.80
57:BA:2543:G:H2'	57:BA:2544:G:C8	2.17	0.80
8:Ai:28:VAL:HG22	8:Ai:63:ILE:HB	1.64	0.80
10:Ak:124:LYS:HE3	22:Aa:797:C:OP1	1.81	0.80
46:AZ:155:LEU:O	46:AZ:157:LEU:HD23	1.82	0.80
57:AA:145:G:C2'	57:AA:146:G:H5"	2.11	0.80
13:Bn:45:ARG:NH2	22:Ba:1060:C:H5'	1.97	0.80
18:Bs:47:HIS:O	18:Bs:62:ILE:HG22	1.81	0.80
32:BI:142:VAL:HG12	32:BI:142:VAL:O	1.81	0.80
17:Ar:36:ASN:HB3	17:Ar:39:VAL:HB	1.64	0.79
29:AF:139:PHE:HB2	29:AF:166:ALA:HB1	1.62	0.79
30:AG:27:ASN:HD21	58:AB:55:U:H4'	1.47	0.79
30:AG:180:PHE:O	30:AG:182:LYS:HG3	1.82	0.79
41:AU:91:ASP:OD1	41:AU:96:ALA:HB2	1.81	0.79
57:AA:2036:C:H5'	57:AA:2036:C:H6	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:By:61:ARG:HG3	21:By:86:VAL:HG21	1.64	0.79
22:Ba:1033:G:H2'	22:Ba:1034:G:H5'	1.62	0.79
46:BZ:150:LEU:HD23	46:BZ:150:LEU:N	1.97	0.79
57:BA:1270:C:H5"	57:BA:1271:G:H5'	1.64	0.79
1:Ab:18:GLY:H	1:Ab:42:ILE:CG2	1.94	0.79
9:Aj:49:VAL:HG23	13:An:41:ARG:HB2	1.63	0.79
12:Am:108:ARG:CZ	12:Am:114:ARG:HG2	2.11	0.79
21:Ay:27:LYS:O	21:Ay:31:VAL:HG23	1.83	0.79
26:AC:53:ARG:HD3	26:AC:53:ARG:H	1.45	0.79
29:AF:8:GLN:HB3	29:AF:126:VAL:HA	1.62	0.79
30:AG:76:SER:OG	30:AG:83:ARG:HB3	1.81	0.79
30:AG:118:ARG:O	30:AG:181:ARG:HB2	1.82	0.79
52:A5:4:HIS:HB3	52:A5:5:PRO:CD	2.11	0.79
57:AA:259:G:H21	57:AA:621:A:H8	1.28	0.79
57:AA:1047:G:H2'	57:AA:1110:G:N2	1.98	0.79
12:Bm:40:ASN:HD22	12:Bm:43:THR:HG23	1.46	0.79
19:Bt:89:ARG:HD2	19:Bt:104:LEU:HD11	1.64	0.79
22:Ba:1442(A):G:H3'	22:Ba:1442(B):A:H5'	1.64	0.79
29:BF:24:LEU:HB3	29:BF:25:PRO:CD	2.13	0.79
41:BU:90:VAL:O	41:BU:92:ARG:N	2.15	0.79
57:BA:330:A:H2	57:BA:1210:A:H2'	1.46	0.79
2:Ac:20:SER:HB2	2:Ac:40:ARG:HH22	1.48	0.79
12:Am:68:GLY:O	12:Am:69:GLU:HB3	1.79	0.79
22:Aa:405:U:H3'	22:Aa:406:G:H5'	1.62	0.79
30:AG:46:ALA:HB2	30:AG:88:ILE:HD11	1.64	0.79
34:AN:15:LEU:HD12	34:AN:136:GLU:HG3	1.64	0.79
40:AT:64:ARG:HD2	40:AT:73:GLU:HG2	1.64	0.79
47:A0:14:ARG:HH11	47:A0:14:ARG:CB	1.95	0.79
55:A8:51:ALA:C	55:A8:53:PRO:HD2	2.07	0.79
57:AA:1434:A:H61	57:AA:1558:A:H62	1.27	0.79
1:Bb:164:VAL:HG23	1:Bb:186:ALA:CB	2.10	0.79
22:Ba:1003:G:C2'	22:Ba:1004:A:H4'	2.11	0.79
28:BE:101:ARG:HH11	28:BE:171:GLU:HB2	1.46	0.79
32:BI:124:GLY:O	32:BI:142:VAL:HB	1.83	0.79
38:BR:117:VAL:O	38:BR:118:GLU:HB2	1.79	0.79
45:BY:90:LEU:HG	45:BY:91:GLU:H	1.47	0.79
48:B1:20:ARG:HH11	48:B1:20:ARG:HG2	1.46	0.79
48:B1:44:PRO:O	48:B1:46:LEU:HD13	1.83	0.79
8:Ai:88:TYR:O	8:Ai:89:ASN:HB2	1.81	0.79
12:Am:68:GLY:HA3	30:AG:116:ASP:OD2	1.82	0.79
21:Ay:11:ALA:HB1	21:Ay:76:ILE:HA	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1107:C:H2'	22:Aa:1108:G:H5"	1.64	0.79
34:AN:1:MET:O	34:AN:2:LYS:HG3	1.81	0.79
36:AP:62:LEU:HB2	57:AA:2393:A:H5'	1.65	0.79
55:A8:30:ARG:HA	55:A8:30:ARG:HE	1.47	0.79
9:Bj:6:ILE:HD11	9:Bj:72:VAL:HB	1.64	0.79
18:Bs:6:LYS:HG3	22:Ba:1314:C:OP2	1.82	0.79
21:By:61:ARG:NH2	23:Bx:21:CCC:O2C	2.16	0.79
28:BE:4:ILE:HD13	28:BE:28:ALA:HB1	1.64	0.79
29:BF:123:LEU:HD12	29:BF:124:LEU:H	1.46	0.79
30:BG:72:ARG:HD3	30:BG:86:MET:HA	1.65	0.79
30:BG:108:ASN:O	30:BG:109:VAL:CG2	2.30	0.79
39:BS:62:LYS:HB2	58:BB:50:G:P	2.23	0.79
29:AF:74:ARG:HD3	57:AA:674:G:O2'	1.82	0.79
41:AU:92:ARG:O	41:AU:94:ASN:N	2.14	0.79
54:A7:34:ARG:NH1	54:A7:39:ARG:HG3	1.98	0.79
57:AA:1038:C:C3'	57:AA:1039:G:H5"	2.13	0.79
22:Ba:1141:C:H2'	22:Ba:1142:G:C8	2.17	0.79
27:BD:35:LYS:NZ	27:BD:36:PRO:HD3	1.98	0.79
27:BD:43:ARG:HB3	27:BD:54:ARG:HB2	1.64	0.79
32:BI:77:LEU:HD21	32:BI:79:ILE:HB	1.64	0.79
36:BP:55:ARG:HG2	36:BP:56:SER:N	1.94	0.79
36:BP:88:LEU:C	36:BP:90:ARG:H	1.87	0.79
7:Ah:20:TYR:HE2	7:Ah:75:ARG:HD2	1.47	0.79
22:Aa:1422:G:H4'	35:AO:49:ARG:HH12	1.45	0.79
53:A6:27:LYS:HB3	53:A6:30:THR:HG22	1.64	0.79
57:AA:1021:A:H3'	57:AA:1021:A:C8	2.17	0.79
10:Bk:79:SER:HB2	10:Bk:106:LYS:HD2	1.64	0.79
3:Ad:30:LYS:C	3:Ad:32:ALA:H	1.89	0.79
22:Aa:1054:C:O2'	22:Aa:1055:A:H5"	1.82	0.79
28:AE:101:ARG:HH11	28:AE:171:GLU:HB2	1.45	0.79
45:AY:13:VAL:HG22	45:AY:14:LEU:H	1.45	0.79
22:Ba:1504:G:OP1	22:Ba:1507:A:H4'	1.83	0.79
28:BE:179:GLU:HB3	28:BE:181:LEU:CD2	2.12	0.79
31:BH:20:ALA:HB1	31:BH:21:PRO:CD	2.13	0.79
44:BX:64:LYS:HZ3	44:BX:73:ARG:NE	1.81	0.79
57:BA:621:A:H2'	57:BA:622:G:H5'	1.63	0.79
3:Ad:30:LYS:HB3	3:Ad:35:ARG:HD2	1.63	0.79
22:Aa:1054:C:H2'	22:Aa:1054:C:O2	1.82	0.79
27:AD:32:SER:O	27:AD:36:PRO:HG3	1.82	0.79
31:AH:83:TYR:HB3	31:AH:134:SER:HA	1.65	0.79
36:AP:88:LEU:C	36:AP:90:ARG:H	1.89	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AV:72:VAL:CG2	42:AV:85:LYS:HB3	2.11	0.79
57:AA:914:C:H2'	57:AA:915:C:H5'	1.64	0.79
57:AA:2866:U:C6	57:AA:2868:A:H1'	2.18	0.79
22:Ba:1054:C:O2'	22:Ba:1055:A:H5"	1.83	0.79
57:BA:1038:C:C3'	57:BA:1039:G:H5"	2.12	0.79
3:Ad:129:ASN:H	3:Ad:129:ASN:ND2	1.78	0.79
28:AE:179:GLU:HB3	28:AE:181:LEU:HD23	1.65	0.79
46:AZ:81:ARG:HB3	46:AZ:81:ARG:NH1	1.98	0.79
53:A6:19:ARG:HG2	57:AA:2400:G:H4'	1.64	0.79
1:Bb:208:ILE:HA	1:Bb:211:ILE:HD12	1.63	0.79
22:Ba:336:C:H2'	22:Ba:337:C:H6	1.47	0.79
28:BE:131:ALA:HB2	57:BA:2580:U:H5'	1.63	0.79
45:BY:25:GLY:HA3	45:BY:39:VAL:HG13	1.65	0.79
57:BA:1434:A:H61	57:BA:1558:A:H62	1.29	0.79
1:Ab:166:ASP:HB3	1:Ab:169:LYS:HB2	1.63	0.79
9:Aj:6:ILE:O	9:Aj:71:LEU:HD12	1.83	0.79
22:Aa:336:C:H2'	22:Aa:337:C:H6	1.48	0.79
30:AG:91:ARG:HD2	30:AG:91:ARG:C	2.08	0.79
37:AQ:43:THR:OG1	37:AQ:46:GLN:HG3	1.83	0.79
57:AA:271(P):C:O2'	57:AA:271(Q):G:H5'	1.83	0.79
57:AA:365:C:H5'	57:AA:365:C:H6	1.48	0.79
57:AA:1015:G:H5'	57:AA:1015:G:H8	1.47	0.79
3:Bd:25:ARG:HH12	3:Bd:30:LYS:HB2	1.48	0.79
27:BD:75:ILE:O	27:BD:118:VAL:HG23	1.82	0.79
31:BH:41:MET:CG	31:BH:43:VAL:HG13	2.13	0.79
36:BP:18:ARG:HB3	36:BP:18:ARG:HH11	1.47	0.79
36:BP:50:ARG:HG2	36:BP:50:ARG:HH21	1.48	0.79
47:B0:14:ARG:HH11	47:B0:14:ARG:CB	1.95	0.79
47:B0:48:GLY:HA3	47:B0:80:HIS:ND1	1.97	0.79
57:BA:654(V):A:H3'	57:BA:655:A:H2'	1.63	0.79
12:Am:29:ARG:HD3	12:Am:64:TRP:CE2	2.18	0.78
30:AG:45:GLU:H	30:AG:88:ILE:HG21	1.48	0.78
36:AP:38:GLN:HG3	36:AP:39:LYS:H	1.46	0.78
41:AU:25:TRP:CZ3	57:AA:17:G:H4'	2.17	0.78
46:AZ:150:LEU:HD21	46:AZ:172:ALA:HB3	1.64	0.78
7:Bh:63:LEU:HD22	7:Bh:63:LEU:H	1.47	0.78
8:Bi:10:ARG:HD2	8:Bi:105:ASP:HB3	1.63	0.78
22:Ba:1054:C:H2'	22:Ba:1054:C:O2	1.83	0.78
36:BP:7:ARG:HH11	36:BP:7:ARG:CA	1.96	0.78
38:BR:10:LEU:HD22	38:BR:17:ARG:CD	2.12	0.78
41:BU:44:ASN:ND2	42:BV:75:PHE:HB3	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:8:LYS:HD2	45:BY:8:LYS:N	1.97	0.78
5:Af:101:ALA:HA	17:Ar:28:GLU:HG2	1.64	0.78
12:Am:54:VAL:O	12:Am:58:GLU:HG2	1.83	0.78
18:As:48:THR:HG22	18:As:61:TYR:HA	1.65	0.78
57:AA:2121:G:H1	57:AA:2177:C:H42	1.30	0.78
52:B5:4:HIS:HB3	52:B5:5:PRO:CD	2.10	0.78
13:An:13:THR:N	13:An:14:PRO:HD2	1.98	0.78
17:Ar:70:ILE:HG22	17:Ar:74:ARG:HD2	1.65	0.78
31:AH:20:ALA:HB1	31:AH:21:PRO:CD	2.13	0.78
31:AH:41:MET:CG	31:AH:43:VAL:HG13	2.13	0.78
37:AQ:39:PRO:HD3	37:AQ:99:PRO:HG3	1.63	0.78
38:AR:10:LEU:HD22	38:AR:17:ARG:CD	2.12	0.78
41:AU:34:LYS:HE2	41:AU:34:LYS:HA	1.63	0.78
54:A7:34:ARG:HH11	54:A7:39:ARG:HG3	1.48	0.78
57:AA:141:A:H8	57:AA:1408:C:HO2'	1.27	0.78
57:AA:184:C:H2'	57:AA:185:U:C6	2.18	0.78
57:AA:1403:C:H5"	57:AA:1471:A:H1'	1.64	0.78
4:Be:102:ALA:HB2	4:Be:120:THR:OG1	1.83	0.78
13:Bn:13:THR:N	13:Bn:14:PRO:HD2	1.97	0.78
14:Bo:82:ILE:HG23	14:Bo:83:GLU:N	1.98	0.78
22:Ba:1107:C:H2'	22:Ba:1108:G:H5"	1.63	0.78
36:BP:41:ARG:NH1	36:BP:45:LEU:HD12	1.97	0.78
57:BA:2111:C:H1'	57:BA:2118:U:O4'	1.84	0.78
5:Af:82:ARG:HB2	5:Af:85:VAL:HG23	1.65	0.78
8:Ai:7:THR:HB	8:Ai:83:ARG:HH11	1.46	0.78
9:Aj:42:THR:H	22:Aa:1151:A:H5"	1.49	0.78
12:Am:79:LYS:HD3	12:Am:82:MET:HE3	1.65	0.78
30:AG:46:ALA:CB	30:AG:82:LEU:HD11	2.06	0.78
36:AP:41:ARG:NH1	36:AP:45:LEU:HD12	1.99	0.78
46:AZ:119:GLU:HG3	46:AZ:122:ARG:HH11	1.48	0.78
57:AA:2543:G:H2'	57:AA:2544:G:C8	2.18	0.78
58:AB:3:C:H42	58:AB:118:G:H1	1.31	0.78
22:Ba:624:C:H2'	22:Ba:625:G:H8	1.45	0.78
30:BG:71:THR:HG21	57:BA:2312:U:H4'	1.64	0.78
30:BG:111:LEU:HD13	30:BG:179:PRO:CG	2.14	0.78
32:BI:88:ILE:CD1	32:BI:142:VAL:HG13	2.14	0.78
39:BS:13:ARG:HG3	39:BS:14:VAL:H	1.48	0.78
42:BV:62:LEU:HD21	42:BV:95:LEU:HB2	1.63	0.78
9:Aj:6:ILE:HD11	9:Aj:72:VAL:HB	1.66	0.78
41:AU:83:LEU:HD22	41:AU:83:LEU:H	1.47	0.78
55:A8:59:LYS:HB2	55:A8:59:LYS:HZ2	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:15:THR:HG22	2:Bc:16:ARG:NH1	1.99	0.78
30:BG:41:GLN:HB2	30:BG:90:LEU:HB3	1.66	0.78
46:BZ:19:ARG:HH11	46:BZ:19:ARG:HG2	1.46	0.78
55:B8:51:ALA:C	55:B8:53:PRO:HD2	2.08	0.78
57:BA:1887:C:H2'	57:BA:1888:G:H5"	1.63	0.78
57:BA:1948:G:H5'	57:BA:1948:G:C8	2.18	0.78
9:Aj:50:ILE:H	9:Aj:50:ILE:CD1	1.93	0.78
25:Aw:63:G:H2'	25:Aw:64:G:C8	2.17	0.78
48:A1:45:ASN:ND2	48:A1:47:GLN:HE22	1.82	0.78
4:Be:148:VAL:HG21	7:Bh:107:LEU:HD22	1.66	0.78
22:Ba:940:C:H2'	22:Ba:941:G:H8	1.48	0.78
22:Ba:1292:U:H2'	22:Ba:1293:G:C8	2.19	0.78
28:BE:132:HIS:HB3	57:BA:744:G:OP1	1.84	0.78
31:BH:30:LYS:HE3	31:BH:81:GLU:N	1.97	0.78
31:BH:170:ARG:HD2	31:BH:170:ARG:H	1.47	0.78
57:BA:2524:G:H8	57:BA:2524:G:H5'	1.47	0.78
1:Ab:18:GLY:N	1:Ab:42:ILE:HG22	1.97	0.78
2:Ac:131:ARG:NH1	4:Ae:50:GLU:HG2	1.97	0.78
3:Ad:47:ARG:HE	3:Ad:49:ARG:NH2	1.82	0.78
30:AG:145:THR:CG2	30:AG:148:MET:HB3	2.13	0.78
2:Bc:20:SER:HB2	2:Bc:40:ARG:HH22	1.48	0.78
2:Bc:47:LEU:HD21	2:Bc:68:VAL:HG11	1.64	0.78
2:Bc:134:ILE:HD11	2:Bc:153:VAL:CG2	2.13	0.78
25:Bw:28:C:H2'	25:Bw:29:G:C8	2.19	0.78
46:BZ:61:LEU:H	46:BZ:61:LEU:HD23	1.48	0.78
53:B6:25:LYS:HD2	57:BA:2285:C:H41	1.48	0.78
57:BA:2537:U:H2'	57:BA:2538:C:C6	2.18	0.78
1:Ab:208:ILE:HA	1:Ab:211:ILE:HD12	1.64	0.78
9:Aj:41:PRO:HA	22:Aa:1151:A:H5'	1.65	0.78
28:AE:131:ALA:HB2	57:AA:2580:U:H5'	1.65	0.78
30:AG:45:GLU:H	30:AG:88:ILE:HG13	1.49	0.78
39:AS:29:PHE:HE1	58:AB:6:C:O2'	1.67	0.78
46:AZ:43:GLU:O	46:AZ:47:VAL:HG23	1.82	0.78
57:AA:152:G:H1	57:AA:174:C:H42	1.29	0.78
57:AA:298:G:H5'	57:AA:299:A:OP1	1.84	0.78
57:AA:2111:C:H1'	57:AA:2118:U:O4'	1.83	0.78
21:By:64:TYR:CZ	21:By:73:VAL:HG13	2.19	0.78
22:Ba:1513:A:H2'	22:Ba:1514:C:C6	2.19	0.78
39:BS:32:LEU:HD13	58:BB:31:C:H41	1.47	0.78
40:BT:64:ARG:HD2	40:BT:73:GLU:HG2	1.65	0.78
43:BW:6:ILE:HG13	43:BW:104:THR:HG23	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:15:VAL:HG21	1:Ab:209:ARG:HH21	1.49	0.78
7:Ah:89:PRO:HA	7:Ah:92:ARG:NH1	1.99	0.78
12:Am:3:ARG:NH2	30:AG:113:ARG:HG3	1.97	0.78
45:AY:8:LYS:HD2	45:AY:8:LYS:N	1.98	0.78
46:AZ:102:LEU:HD11	46:AZ:124:ILE:HG23	1.64	0.78
1:Bb:15:VAL:HG21	1:Bb:209:ARG:HH21	1.49	0.78
1:Bb:204:ASN:ND2	1:Bb:206:ASP:H	1.80	0.78
4:Be:96:PRO:HA	4:Be:117:ASP:OD2	1.84	0.78
27:BD:24:ILE:O	27:BD:25:THR:O	2.01	0.78
42:BV:18:LEU:HD22	42:BV:19:LYS:N	1.98	0.78
53:B6:27:LYS:HB3	53:B6:30:THR:HG22	1.64	0.78
57:BA:365:C:H5'	57:BA:365:C:H6	1.47	0.78
22:Aa:759:A:H2'	22:Aa:760:G:H5'	1.66	0.78
27:AD:70:TRP:HZ3	27:AD:146:GLU:CD	1.91	0.78
31:AH:170:ARG:H	31:AH:170:ARG:HD2	1.49	0.78
55:A8:50:LEU:CD1	55:A8:51:ALA:H	1.95	0.78
7:Bh:84:ARG:HH12	7:Bh:86:ILE:HD13	1.49	0.78
8:Bi:103:THR:CG2	8:Bi:104:ARG:H	1.97	0.78
10:Bk:58:PRO:HD3	10:Bk:89:ALA:HB1	1.65	0.78
22:Ba:867:G:O2'	22:Ba:868:C:H5'	1.84	0.78
30:BG:98:ARG:HG3	51:B4:1:MET:SD	2.24	0.78
54:B7:34:ARG:NH1	54:B7:39:ARG:HG3	1.98	0.78
57:BA:902:C:H2'	57:BA:903:C:H6	1.49	0.78
57:BA:1014:U:C2'	57:BA:1015:G:H5"	2.14	0.78
57:BA:1019:U:H3	57:BA:1142(A):A:H62	1.32	0.78
5:Af:62:TRP:C	5:Af:63:TYR:HD2	1.92	0.77
14:Ao:9:GLN:HB3	14:Ao:13:GLN:HE21	1.49	0.77
19:At:89:ARG:HD2	19:At:104:LEU:HD11	1.66	0.77
21:Ay:11:ALA:CB	21:Ay:76:ILE:HA	2.14	0.77
36:AP:50:ARG:HG2	36:AP:50:ARG:HH21	1.48	0.77
17:Br:36:ASN:HB3	17:Br:39:VAL:HB	1.64	0.77
30:BG:130:ASN:ND2	30:BG:161:THR:H	1.82	0.77
40:BT:28:VAL:HG22	40:BT:47:GLY:H	1.47	0.77
57:BA:622:G:O2'	57:BA:623:G:H5'	1.84	0.77
30:AG:122:PRO:HB3	30:AG:182:LYS:HA	1.64	0.77
42:AV:45:THR:O	42:AV:46:VAL:HG12	1.83	0.77
3:Bd:121:VAL:O	3:Bd:134:ASP:HA	1.83	0.77
8:Bi:82:ALA:HB1	8:Bi:96:LEU:HD11	1.66	0.77
9:Bj:6:ILE:O	9:Bj:71:LEU:HD12	1.84	0.77
34:BN:1:MET:O	34:BN:2:LYS:HG3	1.84	0.77
34:BN:2:LYS:HZ3	41:BU:95:LEU:HD21	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:30:ARG:HH11	39:BS:35:ILE:HB	1.49	0.77
46:BZ:23:LYS:HD3	46:BZ:38:TYR:CE1	2.19	0.77
3:Ad:22:LYS:HG3	3:Ad:26:CYS:SG	2.24	0.77
9:Aj:40:LEU:HD23	9:Aj:41:PRO:HD2	1.67	0.77
22:Aa:867:G:O2'	22:Aa:868:C:H5'	1.84	0.77
22:Aa:1292:U:H2'	22:Aa:1293:G:C8	2.19	0.77
39:AS:29:PHE:CD1	58:AB:7:G:H4'	2.19	0.77
57:AA:544:G:H21	57:AA:547:A:H2'	1.49	0.77
57:AA:2681:C:H5	57:AA:2725:A:N6	1.81	0.77
1:Bb:144:ARG:HA	1:Bb:147:LYS:HB3	1.66	0.77
3:Bd:47:ARG:HE	3:Bd:49:ARG:NH2	1.83	0.77
9:Bj:41:PRO:HA	22:Ba:1151:A:H5'	1.65	0.77
12:Bm:70:LEU:CD2	12:Bm:71:ARG:H	1.97	0.77
14:Bo:9:GLN:HB3	14:Bo:13:GLN:HE21	1.49	0.77
52:B5:3:LYS:HE3	52:B5:5:PRO:O	1.83	0.77
4:Ae:31:LEU:HD22	4:Ae:43:LEU:HD11	1.67	0.77
27:AD:172:TYR:HD1	27:AD:186:HIS:HA	1.50	0.77
27:AD:268:ARG:HB3	27:AD:268:ARG:NH1	1.99	0.77
45:AY:25:GLY:HA3	45:AY:39:VAL:HG13	1.67	0.77
57:AA:1270:C:H5"	57:AA:1271:G:C5'	2.14	0.77
5:Bf:62:TRP:C	5:Bf:63:TYR:HD2	1.92	0.77
42:BV:21:ARG:HG2	42:BV:91:TYR:HD2	1.48	0.77
46:BZ:53:ILE:HG22	46:BZ:71:VAL:HG23	1.67	0.77
52:B5:54:GLY:C	52:B5:55:ARG:HE	1.91	0.77
57:BA:1697:G:H3'	57:BA:1698:A:H5"	1.65	0.77
4:Ae:22:GLY:O	22:Aa:1194:U:H4'	1.85	0.77
29:AF:133:ASN:HA	29:AF:162:LEU:HD23	1.65	0.77
41:AU:90:VAL:O	41:AU:92:ARG:N	2.17	0.77
55:A8:14:VAL:HG21	55:A8:22:VAL:HG12	1.66	0.77
57:AA:1639:U:O2'	57:AA:1640:C:H5"	1.84	0.77
24:Bv:73:A:H5'	24:Bv:73:A:C8	2.18	0.77
29:BF:40:GLN:NE2	29:BF:184:TYR:HB2	1.99	0.77
30:BG:124:SER:O	57:BA:2303:G:H4'	1.85	0.77
42:BV:45:THR:O	42:BV:46:VAL:HG12	1.85	0.77
51:B4:22:ILE:H	51:B4:22:ILE:HD12	1.49	0.77
57:BA:271(P):C:O2'	57:BA:271(Q):G:H5'	1.83	0.77
3:Ad:25:ARG:HH12	3:Ad:30:LYS:HB2	1.48	0.77
24:Av:40:C:H2'	24:Av:41:C:C6	2.20	0.77
41:AU:93:LYS:HD3	57:AA:997:G:OP1	1.85	0.77
53:A6:35:GLU:HB3	53:A6:51:GLU:HB2	1.66	0.77
4:Be:33:VAL:HG11	4:Be:109:ILE:HA	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bh:20:TYR:HE2	7:Bh:75:ARG:HD2	1.49	0.77
9:Bj:50:ILE:HD11	13:Bn:41:ARG:HD3	1.67	0.77
12:Bm:70:LEU:HD22	12:Bm:71:ARG:H	1.48	0.77
20:Bu:6:ARG:CZ	20:Bu:15:ARG:HH22	1.96	0.77
36:BP:16:ARG:CD	36:BP:18:ARG:H	1.94	0.77
41:BU:83:LEU:H	41:BU:83:LEU:HD22	1.48	0.77
41:BU:92:ARG:O	41:BU:94:ASN:N	2.18	0.77
9:Aj:50:ILE:HD11	13:An:41:ARG:HD3	1.67	0.77
26:AC:50:ILE:HG22	26:AC:57:GLN:HE21	1.49	0.77
27:AD:242:ARG:HH21	57:AA:1826:G:C4'	1.92	0.77
30:AG:111:LEU:HD13	30:AG:179:PRO:HG3	1.66	0.77
36:AP:7:ARG:HH11	36:AP:7:ARG:CA	1.97	0.77
37:AQ:10:ARG:HB2	37:AQ:10:ARG:NH1	2.00	0.77
42:AV:18:LEU:HD22	42:AV:19:LYS:N	1.99	0.77
48:A1:3:LYS:HE2	57:AA:1364:G:C8	2.19	0.77
51:A4:15:ILE:HA	51:A4:21:VAL:HG22	1.66	0.77
57:AA:1270:C:H5"	57:AA:1271:G:H5'	1.65	0.77
2:Bc:150:LYS:HG3	2:Bc:169:ALA:HB2	1.67	0.77
10:Bk:124:LYS:HE3	22:Ba:797:C:OP1	1.85	0.77
22:Ba:1490:C:H2'	22:Ba:1491:G:H5"	1.67	0.77
42:BV:51:VAL:HG12	42:BV:52:VAL:N	1.99	0.77
57:BA:603:A:H4'	57:BA:604:G:O5'	1.85	0.77
57:BA:880:G:H1	57:BA:897:C:H42	1.30	0.77
11:Al:55:VAL:HG12	11:Al:69:TYR:HA	1.67	0.77
12:Am:65:LYS:CB	12:Am:66:LEU:CB	2.54	0.77
25:Aw:51:C:H2'	25:Aw:52:G:H8	1.49	0.77
30:AG:109:VAL:HG12	30:AG:113:ARG:HD3	1.66	0.77
32:AI:126:TYR:O	32:AI:140:LEU:HB3	1.85	0.77
46:AZ:134:PRO:O	46:AZ:135:GLU:HG3	1.84	0.77
4:Be:93:PRO:HG2	7:Bh:105:ARG:NH2	1.99	0.77
5:Bf:101:ALA:HA	17:Br:28:GLU:HG2	1.66	0.77
9:Bj:49:VAL:HG21	13:Bn:41:ARG:HB2	1.65	0.77
15:Bp:20:VAL:HG21	15:Bp:32:TYR:CG	2.19	0.77
22:Ba:759:A:H2'	22:Ba:760:G:H5'	1.65	0.77
28:BE:5:LEU:HB2	28:BE:51:PHE:HD2	1.50	0.77
28:BE:24:THR:CG2	28:BE:184:VAL:HG23	2.14	0.77
29:BF:133:ASN:HA	29:BF:162:LEU:HD23	1.67	0.77
32:BI:82:ARG:O	32:BI:89:TYR:HB2	1.85	0.77
40:BT:34:VAL:O	40:BT:35:LYS:HB3	1.84	0.77
16:Aq:26:GLN:HG2	16:Aq:37:LYS:HG2	1.65	0.77
22:Aa:1028:C:H42	22:Aa:1034:G:H1'	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Aw:70:G:O2'	25:Aw:71:C:H5'	1.85	0.77
36:AP:55:ARG:CG	36:AP:56:SER:H	1.96	0.77
45:AY:46:LYS:H	45:AY:62:GLU:HB2	1.49	0.77
51:A4:33:VAL:HG12	51:A4:34:GLU:H	1.47	0.77
57:AA:271(F):C:H2'	57:AA:271(G):C:H6	1.50	0.77
1:Bb:204:ASN:HD21	1:Bb:206:ASP:HB2	1.50	0.77
27:BD:32:SER:O	27:BD:36:PRO:HG3	1.84	0.77
28:BE:60:ASN:HB2	57:BA:2811:G:OP1	1.85	0.77
31:BH:97:ARG:HG2	31:BH:98:LEU:N	1.93	0.77
32:BI:109:ILE:CG2	32:BI:114:LEU:HD11	2.15	0.77
36:BP:67:MET:N	57:BA:2415:G:H4'	2.00	0.77
45:BY:46:LYS:H	45:BY:62:GLU:HB2	1.49	0.77
57:BA:2298:A:H2'	57:BA:2299:G:O4'	1.85	0.77
18:As:6:LYS:HG3	22:Aa:1314:C:OP2	1.83	0.77
27:AD:43:ARG:HB3	27:AD:54:ARG:HB2	1.67	0.77
36:AP:16:ARG:CD	36:AP:18:ARG:H	1.95	0.77
3:Bd:30:LYS:HB3	3:Bd:35:ARG:HD2	1.65	0.77
22:Ba:1137:C:H4'	22:Ba:1138:G:C2	2.20	0.77
30:BG:96:ARG:HH21	30:BG:97:ASP:HB2	1.49	0.77
51:B4:15:ILE:HA	51:B4:21:VAL:HG22	1.67	0.77
53:B6:15:GLU:CD	53:B6:44:ARG:HH12	1.93	0.77
57:BA:1270:C:H5"	57:BA:1271:G:C5'	2.14	0.77
57:BA:2801(A):A:C4'	57:BA:2802:G:H5'	2.15	0.77
22:Aa:1293:G:HO2'	22:Aa:1294:G:H8	1.32	0.76
27:AD:35:LYS:NZ	27:AD:36:PRO:HD3	2.00	0.76
29:AF:169:ASN:HD21	57:AA:322:A:H3'	1.48	0.76
49:A2:63:VAL:HA	49:A2:66:GLU:HG2	1.67	0.76
53:A6:15:GLU:CD	53:A6:44:ARG:HH12	1.93	0.76
53:A6:54:ILE:O	53:A6:54:ILE:HD12	1.85	0.76
57:AA:1038:C:H3'	57:AA:1039:G:H5"	1.67	0.76
3:Bd:22:LYS:HG3	3:Bd:26:CYS:SG	2.25	0.76
7:Bh:1:MET:HE2	7:Bh:1:MET:H3	1.48	0.76
8:Bi:33:PHE:CE2	8:Bi:47:LEU:HD21	2.20	0.76
22:Ba:1256:A:H5'	22:Ba:1257:U:OP1	1.86	0.76
27:BD:121:PRO:HB3	27:BD:135:PHE:HE1	1.48	0.76
53:B6:35:GLU:HB3	53:B6:51:GLU:HB2	1.67	0.76
12:Am:65:LYS:HB2	12:Am:66:LEU:CB	2.10	0.76
12:Am:91:ARG:O	12:Am:96:LEU:N	2.16	0.76
27:AD:77:ALA:HB2	27:AD:97:TYR:HA	1.65	0.76
43:AW:6:ILE:HG13	43:AW:104:THR:HG23	1.65	0.76
4:Be:24:ARG:HH12	22:Ba:15:G:H4'	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bk:54:ARG:O	10:Bk:57:THR:HG22	1.84	0.76
11:Bl:89:ARG:HB2	11:Bl:89:ARG:NH1	2.01	0.76
12:Bm:63:THR:HG22	12:Bm:64:TRP:N	1.99	0.76
22:Ba:979:C:H3'	22:Ba:980:C:C5'	2.15	0.76
30:BG:71:THR:CG2	57:BA:2312:U:H4'	2.15	0.76
57:BA:2866:U:C6	57:BA:2868:A:H1'	2.21	0.76
14:Ao:17:ARG:HD3	14:Ao:26:GLU:OE1	1.84	0.76
22:Aa:818:G:O2'	22:Aa:819:A:H5"	1.85	0.76
22:Aa:1502:A:H2	22:Aa:1505:G:N1	1.82	0.76
34:AN:66:LYS:HZ3	57:AA:1140:C:H5"	1.51	0.76
37:AQ:32:TYR:HE1	37:AQ:111:GLU:HA	1.50	0.76
38:AR:3:HIS:HB2	57:AA:1654:A:P	2.25	0.76
40:AT:88:ILE:HG22	40:AT:89:VAL:HG22	1.66	0.76
45:AY:28:LYS:HA	45:AY:38:ILE:HG22	1.67	0.76
45:AY:90:LEU:HG	45:AY:91:GLU:H	1.50	0.76
46:AZ:153:SER:HB2	46:AZ:163:LEU:HD13	1.67	0.76
57:AA:1657:C:H2'	57:AA:1658:C:H6	1.50	0.76
3:Bd:117:ALA:O	3:Bd:121:VAL:HG23	1.86	0.76
16:Bq:59:ILE:CG2	16:Bq:71:PHE:HB3	2.15	0.76
22:Ba:438:G:H4'	22:Ba:439:A:OP1	1.85	0.76
25:Bw:62:C:H4'	26:BC:53:ARG:HG3	1.68	0.76
53:B6:19:ARG:HG2	57:BA:2400:G:H4'	1.66	0.76
53:B6:54:ILE:O	53:B6:54:ILE:HD12	1.84	0.76
22:Aa:1256:A:H5'	22:Aa:1257:U:OP1	1.84	0.76
22:Aa:1442(A):G:N2	40:AT:119:LYS:HB2	2.00	0.76
28:AE:61:ARG:H	28:AE:62:PRO:CD	1.98	0.76
30:AG:64:THR:OG1	30:AG:94:LEU:HD21	1.86	0.76
51:A4:14:ILE:HA	51:A4:31:ILE:HB	1.66	0.76
57:AA:1014:U:C2'	57:AA:1015:G:H5"	2.15	0.76
57:AA:2120:G:H2'	57:AA:2121:G:H8	1.50	0.76
57:AA:2298:A:H2'	57:AA:2299:G:O4'	1.86	0.76
4:Be:76:ILE:CG1	4:Be:77:PRO:HD2	2.16	0.76
12:Bm:13:LYS:HA	12:Bm:44:ARG:HH11	1.48	0.76
14:Bo:74:ASP:OD1	14:Bo:77:ARG:HG2	1.85	0.76
25:Bw:69:C:H2'	25:Bw:70:G:C8	2.20	0.76
30:BG:132:ASN:HD22	57:BA:2303:G:H1'	1.50	0.76
36:BP:83:VAL:HG11	36:BP:112:LEU:HD21	1.67	0.76
4:Ae:71:LEU:O	4:Ae:72:GLN:HG3	1.86	0.76
17:Ar:70:ILE:O	17:Ar:74:ARG:HG3	1.86	0.76
29:AF:22:ALA:HB1	29:AF:26:ALA:CB	2.15	0.76
36:AP:18:ARG:HB3	36:AP:18:ARG:HH11	1.47	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:71:VAL:HG12	36:AP:72:PRO:HD3	1.66	0.76
46:AZ:53:ILE:HG22	46:AZ:71:VAL:O	1.85	0.76
47:A0:43:THR:HG22	57:AA:2331:G:O2'	1.84	0.76
51:A4:14:ILE:HG23	51:A4:31:ILE:HG21	1.66	0.76
3:Bd:96:LEU:HB3	3:Bd:139:ARG:HH22	1.49	0.76
21:By:52:LYS:NZ	21:By:54:LYS:NZ	2.34	0.76
29:BF:139:PHE:HB2	29:BF:166:ALA:HB1	1.65	0.76
39:BS:97:ARG:NH2	39:BS:98:VAL:HA	2.00	0.76
45:BY:96:ILE:O	45:BY:97:ARG:HB2	1.84	0.76
57:BA:1542:A:H3'	57:BA:1542:A:H8	1.51	0.76
4:Ae:24:ARG:HH12	22:Aa:15:G:H4'	1.49	0.76
29:AF:24:LEU:HB3	29:AF:25:PRO:CD	2.10	0.76
30:AG:71:THR:HG22	30:AG:89:GLY:O	1.85	0.76
36:AP:16:ARG:HD3	36:AP:18:ARG:N	1.98	0.76
22:Ba:735:C:H2'	22:Ba:736:C:H6	1.51	0.76
22:Ba:1503:A:N6	23:Bx:13:A:OP1	2.19	0.76
27:BD:181:GLU:HA	27:BD:272:ALA:CB	2.16	0.76
32:BI:98:ALA:O	32:BI:109:ILE:HD13	1.85	0.76
32:BI:110:ASP:CG	32:BI:113:ARG:HB2	2.10	0.76
52:B5:40:LYS:NZ	52:B5:46:CYS:HB3	2.00	0.76
53:B6:16:CYS:SG	53:B6:48:VAL:HG21	2.25	0.76
1:Ab:69:LEU:HD22	1:Ab:159:PRO:HG2	1.68	0.76
24:Av:40:C:H2'	24:Av:41:C:H6	1.51	0.76
28:AE:132:HIS:ND1	57:AA:1658:C:OP1	2.18	0.76
30:AG:71:THR:HG21	57:AA:2312:U:O2'	1.86	0.76
32:AI:79:ILE:CG2	32:AI:81:VAL:HG12	2.15	0.76
57:AA:1639:U:C2'	57:AA:1640:C:H5"	2.15	0.76
9:Bj:31:GLY:HA3	9:Bj:78:ASN:ND2	2.01	0.76
12:Bm:79:LYS:HD3	12:Bm:82:MET:HE3	1.66	0.76
17:Br:70:ILE:HG22	17:Br:74:ARG:HD2	1.67	0.76
36:BP:30:THR:HG22	36:BP:31:ALA:N	2.00	0.76
1:Ab:27:LYS:HD2	1:Ab:193:ASP:CB	2.16	0.76
1:Ab:144:ARG:HA	1:Ab:147:LYS:HB3	1.67	0.76
22:Aa:1144:G:H21	22:Aa:1146:A:N6	1.83	0.76
25:Aw:72:A:O2'	25:Aw:73:A:H5'	1.86	0.76
29:AF:68:LYS:HE2	57:AA:2444:G:OP2	1.84	0.76
31:AH:97:ARG:HG2	31:AH:98:LEU:N	1.96	0.76
32:AI:82:ARG:O	32:AI:89:TYR:HB2	1.86	0.76
32:AI:98:ALA:HA	32:AI:101:LEU:HD22	1.68	0.76
35:AO:120:GLU:OE2	35:AO:122:LEU:HD21	1.86	0.76
36:AP:66:GLY:HA3	57:AA:2415:G:O3'	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:A4:22:ILE:H	51:A4:22:ILE:HD12	1.49	0.76
16:Bq:59:ILE:HG21	16:Bq:71:PHE:HB3	1.68	0.76
21:By:43:LYS:HA	21:By:51:TYR:CB	2.15	0.76
29:BF:157:VAL:CG2	29:BF:194:MET:HG2	2.15	0.76
40:BT:6:LEU:HA	40:BT:9:LEU:HD12	1.68	0.76
49:B2:13:ALA:O	49:B2:16:LEU:HB2	1.85	0.76
49:B2:55:ARG:NH1	57:BA:75:G:H4'	2.00	0.76
22:Aa:503:C:H2'	22:Aa:504:C:H6	1.51	0.76
26:AC:48:LEU:HD11	26:AC:172:ILE:HG22	1.68	0.76
32:AI:111:PRO:HG2	32:AI:112:LYS:HD2	1.66	0.76
36:AP:30:THR:HG22	36:AP:31:ALA:N	1.98	0.76
39:AS:74:ALA:HB1	39:AS:103:GLU:HB3	1.68	0.76
41:AU:90:VAL:HG22	42:AV:39:LEU:HG	1.68	0.76
43:AW:1:MET:HE3	43:AW:2:GLU:H	1.51	0.76
1:Bb:27:LYS:HD2	1:Bb:193:ASP:CB	2.15	0.76
22:Ba:503:C:H2'	22:Ba:504:C:H6	1.51	0.76
46:BZ:81:ARG:HH11	46:BZ:81:ARG:CB	1.97	0.76
49:B2:55:ARG:HH11	57:BA:75:G:H4'	1.48	0.76
57:BA:914:C:H2'	57:BA:915:C:H5'	1.66	0.76
57:BA:1639:U:C2'	57:BA:1640:C:H5"	2.16	0.76
2:Ac:15:THR:HG22	2:Ac:16:ARG:NH1	2.00	0.76
9:Aj:31:GLY:HA3	9:Aj:78:ASN:ND2	2.01	0.76
12:Am:13:LYS:HA	12:Am:44:ARG:HH11	1.49	0.76
14:Ao:82:ILE:HG23	14:Ao:83:GLU:N	1.98	0.76
22:Aa:353:A:H8	22:Aa:353:A:H5'	1.51	0.76
28:AE:60:ASN:HB2	57:AA:2811:G:OP1	1.85	0.76
36:AP:83:VAL:HG11	36:AP:112:LEU:HD21	1.67	0.76
46:AZ:156:LYS:O	46:AZ:158:PRO:HD3	1.84	0.76
49:A2:46:GLN:CB	49:A2:49:LYS:HE3	2.16	0.76
49:A2:46:GLN:HB2	49:A2:49:LYS:HE3	1.66	0.76
53:A6:23:THR:HG21	57:AA:2419:U:H5'	1.68	0.76
11:Bl:23:LYS:O	11:Bl:24:VAL:HG23	1.86	0.76
22:Ba:1144:G:H21	22:Ba:1146:A:N6	1.84	0.76
37:BQ:39:PRO:HD3	37:BQ:99:PRO:HG3	1.68	0.76
55:B8:50:LEU:CD1	55:B8:51:ALA:H	1.97	0.76
6:Ag:16:LEU:CD1	8:Ai:42:ARG:HA	2.16	0.75
20:Au:6:ARG:CZ	20:Au:15:ARG:HH22	1.99	0.75
27:AD:35:LYS:HD2	27:AD:36:PRO:N	2.01	0.75
34:AN:3:THR:C	34:AN:5:VAL:H	1.94	0.75
39:AS:25:ARG:HG3	39:AS:88:ASP:HB2	1.68	0.75
7:Bh:122:ARG:NH1	7:Bh:122:ARG:HB2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:40:LEU:HD23	9:Bj:41:PRO:HD2	1.68	0.75
22:Ba:828:A:H2'	22:Ba:829:G:O4'	1.86	0.75
22:Ba:1241:G:H2'	22:Ba:1242:C:C6	2.20	0.75
34:BN:73:THR:HG23	34:BN:82:LEU:HD11	1.66	0.75
45:BY:10:GLY:HA2	45:BY:27:VAL:HG13	1.68	0.75
49:B2:2:LYS:HB3	57:BA:97:C:H5"	1.66	0.75
51:B4:14:ILE:HA	51:B4:31:ILE:HB	1.68	0.75
27:AD:35:LYS:HZ3	27:AD:36:PRO:HD3	1.49	0.75
29:AF:164:ARG:HH11	29:AF:164:ARG:HG2	1.51	0.75
39:AS:52:SER:CB	39:AS:55:ALA:HB3	2.16	0.75
40:AT:65:LYS:HZ2	40:AT:66:VAL:H	1.34	0.75
45:AY:7:VAL:HB	45:AY:8:LYS:CD	2.15	0.75
46:AZ:119:GLU:HG3	46:AZ:122:ARG:NH1	2.01	0.75
12:Bm:54:VAL:O	12:Bm:58:GLU:HG2	1.86	0.75
22:Ba:1423:G:H5'	35:BO:49:ARG:HH21	1.52	0.75
26:BC:50:ILE:HG22	26:BC:57:GLN:HE21	1.51	0.75
42:BV:35:LEU:HB2	42:BV:57:VAL:HG13	1.66	0.75
48:B1:11:ARG:HH11	48:B1:11:ARG:HB3	1.51	0.75
53:B6:23:THR:HG21	57:BA:2419:U:H5'	1.68	0.75
57:BA:528:A:H2	57:BA:2043:C:H4'	1.49	0.75
57:BA:1678:G:N2	57:BA:1989:G:H22	1.83	0.75
10:Ak:54:ARG:O	10:Ak:57:THR:HG22	1.85	0.75
22:Aa:940:C:H2'	22:Aa:941:G:H8	1.50	0.75
27:AD:75:ILE:O	27:AD:118:VAL:HG23	1.86	0.75
37:AQ:13:GLN:HG3	57:AA:910:A:C5	2.22	0.75
43:AW:29:LEU:HD21	43:AW:33:ARG:HH21	1.52	0.75
45:AY:31:LEU:HB2	45:AY:32:PRO:HA	1.67	0.75
57:AA:212:G:O2'	57:AA:213:A:H5'	1.85	0.75
12:Bm:65:LYS:HE3	12:Bm:70:LEU:H	1.49	0.75
14:Bo:17:ARG:HD3	14:Bo:26:GLU:OE1	1.86	0.75
22:Ba:1307:U:H2'	22:Ba:1308:U:C6	2.22	0.75
40:BT:88:ILE:HG22	40:BT:89:VAL:HG22	1.68	0.75
41:BU:108:GLU:HG3	42:BV:44:LYS:HD3	1.68	0.75
57:BA:2645:G:H3'	57:BA:2646:C:C5'	2.17	0.75
27:AD:221:VAL:HG22	27:AD:226:MET:HE2	1.68	0.75
28:AE:203:LYS:O	28:AE:203:LYS:HD2	1.87	0.75
29:AF:40:GLN:NE2	29:AF:184:TYR:HB2	2.01	0.75
30:AG:43:LEU:HD21	30:AG:153:ARG:HD3	1.68	0.75
32:AI:88:ILE:CD1	32:AI:142:VAL:HG13	2.15	0.75
32:AI:142:VAL:HG12	32:AI:142:VAL:O	1.86	0.75
36:AP:105:LEU:HD12	36:AP:105:LEU:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:A1:23:LYS:CD	48:A1:28:GLY:HA3	2.15	0.75
52:A5:3:LYS:HE3	52:A5:5:PRO:O	1.85	0.75
57:AA:1991:U:H2'	57:AA:1992:G:H5"	1.68	0.75
57:AA:2801(A):A:C4'	57:AA:2802:G:H5'	2.17	0.75
6:Bg:16:LEU:CD1	8:Bi:42:ARG:HA	2.16	0.75
9:Bj:42:THR:H	22:Ba:1151:A:H5"	1.50	0.75
22:Ba:1422:G:H4'	35:BO:49:ARG:HH12	1.52	0.75
29:BF:22:ALA:HB1	29:BF:26:ALA:CB	2.15	0.75
36:BP:105:LEU:H	36:BP:105:LEU:HD12	1.50	0.75
57:BA:1210:A:H5'	57:BA:1210:A:C8	2.21	0.75
4:Ae:76:ILE:CG1	4:Ae:77:PRO:HD2	2.17	0.75
6:Ag:77:SER:HA	6:Ag:86:GLN:HA	1.67	0.75
21:Ay:26:LEU:CD2	21:Ay:55:LEU:HD11	2.12	0.75
22:Aa:979:C:H3'	22:Aa:980:C:C5'	2.17	0.75
22:Aa:1241:G:H2'	22:Aa:1242:C:C6	2.20	0.75
36:AP:58:THR:O	36:AP:61:ARG:NE	2.20	0.75
39:AS:30:ARG:HH11	39:AS:35:ILE:HB	1.52	0.75
57:AA:880:G:H1	57:AA:897:C:H42	1.31	0.75
1:Bb:17:PHE:HB3	1:Bb:44:LEU:HD21	1.68	0.75
9:Bj:6:ILE:HG13	9:Bj:72:VAL:O	1.87	0.75
9:Bj:7:LYS:HD3	9:Bj:71:LEU:HD13	1.69	0.75
19:Bt:16:HIS:CE1	22:Ba:333:G:H4'	2.21	0.75
22:Ba:1184:G:H2'	22:Ba:1185:G:H8	1.51	0.75
22:Ba:1437:C:H2'	22:Ba:1438:G:H8	1.52	0.75
46:BZ:131:ARG:HG3	46:BZ:132:ASN:N	2.00	0.75
47:B0:48:GLY:CA	47:B0:80:HIS:HD1	1.97	0.75
55:B8:59:LYS:HB2	55:B8:59:LYS:HZ2	1.49	0.75
57:BA:1038:C:H3'	57:BA:1039:G:H5"	1.67	0.75
10:Ak:15:ALA:HB1	10:Ak:78:GLN:HG3	1.66	0.75
27:AD:48:ARG:HH11	27:AD:48:ARG:HG3	1.52	0.75
30:AG:70:VAL:HG22	30:AG:90:LEU:HD12	1.67	0.75
35:AO:24:VAL:CG2	35:AO:33:ALA:HB2	2.17	0.75
36:AP:61:ARG:NH1	55:A8:13:ARG:HD2	2.01	0.75
42:AV:21:ARG:HG2	42:AV:91:TYR:HD2	1.46	0.75
44:AX:64:LYS:HZ3	44:AX:73:ARG:NE	1.83	0.75
52:A5:54:GLY:C	52:A5:55:ARG:HE	1.94	0.75
53:A6:5:VAL:HG13	53:A6:7:ILE:H	1.52	0.75
57:AA:1210:A:H5'	57:AA:1210:A:C8	2.19	0.75
4:Be:71:LEU:O	4:Be:72:GLN:HG3	1.85	0.75
12:Bm:49:THR:HG22	12:Bm:51:ALA:H	1.51	0.75
27:BD:221:VAL:HG22	27:BD:226:MET:HE2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:268:ARG:HB3	27:BD:268:ARG:NH1	2.02	0.75
31:BH:156:ALA:O	31:BH:157:TYR:C	2.30	0.75
37:BQ:13:GLN:HG3	57:BA:910:A:C5	2.21	0.75
41:BU:90:VAL:HG12	41:BU:91:ASP:H	1.51	0.75
46:BZ:94:GLU:HB3	46:BZ:95:PRO:HD2	1.67	0.75
57:BA:2120:G:H2'	57:BA:2121:G:H8	1.51	0.75
30:AG:5:VAL:H	30:AG:8:LYS:HB3	1.50	0.75
6:Bg:77:SER:HA	6:Bg:86:GLN:HA	1.68	0.75
17:Br:70:ILE:O	17:Br:74:ARG:HG3	1.87	0.75
22:Ba:1028:C:H42	22:Ba:1034:G:H1'	1.51	0.75
32:BI:126:TYR:O	32:BI:140:LEU:HB3	1.87	0.75
34:BN:39:ARG:HD3	34:BN:41:ASP:HB2	1.68	0.75
36:BP:39:LYS:HD2	57:BA:806:C:OP2	1.85	0.75
42:BV:38:LEU:C	42:BV:39:LEU:HD13	2.12	0.75
1:Ab:137:ARG:HD3	1:Ab:138:LEU:N	2.01	0.75
22:Aa:512:U:H2'	22:Aa:513:C:H6	1.50	0.75
29:AF:192:LEU:CD2	29:AF:194:MET:HG3	2.17	0.75
12:Bm:65:LYS:HE2	12:Bm:70:LEU:H	1.50	0.75
28:BE:179:GLU:HB3	28:BE:181:LEU:HD23	1.67	0.75
29:BF:74:ARG:HD3	57:BA:674:G:O2'	1.86	0.75
45:BY:76:CYS:HB3	45:BY:96:ILE:CD1	2.16	0.75
52:B5:36:CYS:SG	52:B5:49:CYS:HB3	2.27	0.75
1:Ab:17:PHE:HB3	1:Ab:44:LEU:HD21	1.69	0.75
21:Ay:15:TRP:CE2	21:Ay:23:ARG:HG3	2.22	0.75
30:AG:111:LEU:HD13	30:AG:179:PRO:CG	2.16	0.75
36:AP:63:PRO:HD2	57:AA:2394:C:OP1	1.86	0.75
55:A8:50:LEU:HD12	55:A8:51:ALA:N	2.02	0.75
30:BG:108:ASN:O	30:BG:109:VAL:HG22	1.87	0.75
30:BG:134:GLY:C	30:BG:135:LEU:HD12	2.12	0.75
31:BH:90:LYS:HB3	31:BH:159:GLU:OE2	1.87	0.75
57:BA:544:G:H21	57:BA:547:A:H2'	1.51	0.75
57:BA:654(Q):C:O2'	57:BA:654(R):C:H5'	1.87	0.75
22:Aa:56:U:H2'	22:Aa:57:G:H8	1.52	0.74
27:AD:121:PRO:HB3	27:AD:135:PHE:HE1	1.52	0.74
39:AS:97:ARG:NH2	39:AS:98:VAL:HA	2.01	0.74
57:AA:1014:U:H2'	57:AA:1015:G:H5"	1.69	0.74
57:AA:1038:C:H42	57:AA:1117:G:H1	1.30	0.74
9:Bj:6:ILE:O	9:Bj:6:ILE:HD12	1.86	0.74
28:BE:69:LYS:NZ	28:BE:89:ASP:HA	2.02	0.74
39:BS:70:GLY:C	39:BS:101:LEU:HD23	2.12	0.74
54:B7:34:ARG:HH11	54:B7:39:ARG:HG3	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:204:ASN:HD21	1:Ab:206:ASP:HB2	1.52	0.74
12:Am:63:THR:CG2	12:Am:64:TRP:H	1.87	0.74
17:Ar:36:ASN:HB3	17:Ar:39:VAL:CG2	2.17	0.74
22:Aa:735:C:H2'	22:Aa:736:C:H6	1.52	0.74
28:AE:78:LEU:C	28:AE:79:ARG:HD2	2.12	0.74
30:AG:96:ARG:H	30:AG:99:MET:HE2	1.51	0.74
32:AI:118:LYS:HG2	32:AI:119:PRO:CD	2.12	0.74
33:AJ:56:ASN:CB	33:AJ:83:TYR:HA	2.17	0.74
40:AT:34:VAL:O	40:AT:35:LYS:HB3	1.85	0.74
43:AW:91:GLY:HA2	57:AA:1614:A:N1	2.02	0.74
45:AY:95:LYS:HG2	45:AY:101:LYS:H	1.51	0.74
57:AA:654(Q):C:O2'	57:AA:654(R):C:H5'	1.87	0.74
57:AA:1678:G:N2	57:AA:1989:G:H22	1.85	0.74
57:AA:2855:C:H2'	57:AA:2856:C:H6	1.52	0.74
5:Bf:82:ARG:HB2	5:Bf:85:VAL:HG23	1.68	0.74
1:Ab:71:VAL:HB	1:Ab:164:VAL:CG1	2.17	0.74
11:Al:47:LYS:HE2	11:Al:48:PRO:CD	2.18	0.74
15:Ap:20:VAL:HG21	15:Ap:32:TYR:CG	2.23	0.74
22:Aa:148:G:O2'	22:Aa:149:A:H5'	1.87	0.74
45:AY:19:LYS:HE3	57:AA:329:G:H1	1.52	0.74
1:Bb:69:LEU:HD22	1:Bb:159:PRO:HG2	1.69	0.74
3:Bd:150:GLU:CD	3:Bd:151:LYS:H	1.95	0.74
27:BD:70:TRP:HZ3	27:BD:146:GLU:CD	1.94	0.74
28:BE:34:VAL:HG13	28:BE:48:GLN:HG2	1.69	0.74
41:BU:13:LYS:HE2	41:BU:13:LYS:N	2.02	0.74
3:Ad:117:ALA:O	3:Ad:121:VAL:HG23	1.86	0.74
22:Aa:438:G:H4'	22:Aa:439:A:OP1	1.88	0.74
40:AT:28:VAL:CG1	40:AT:46:GLU:HA	2.14	0.74
44:AX:12:VAL:HG21	44:AX:17:ALA:HB1	1.69	0.74
49:A2:46:GLN:H	49:A2:49:LYS:CD	2.00	0.74
57:AA:1542:A:H3'	57:AA:1542:A:H8	1.50	0.74
1:Bb:164:VAL:CG2	1:Bb:186:ALA:HB2	2.17	0.74
3:Bd:9:CYS:SG	3:Bd:22:LYS:HD2	2.28	0.74
27:BD:172:TYR:CD1	27:BD:186:HIS:HA	2.23	0.74
29:BF:39:TRP:O	29:BF:43:LYS:HG2	1.87	0.74
30:BG:135:LEU:HD11	30:BG:157:ILE:HD12	1.70	0.74
39:BS:12:PHE:O	39:BS:14:VAL:HG23	1.87	0.74
40:BT:100:TYR:HD2	40:BT:103:ARG:HH21	1.33	0.74
41:BU:90:VAL:HG12	41:BU:91:ASP:N	2.02	0.74
49:B2:23:LYS:O	49:B2:27:GLU:HG3	1.88	0.74
53:B6:10:LEU:H	53:B6:10:LEU:CD2	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:59:LYS:NZ	55:B8:59:LYS:CB	2.50	0.74
57:BA:1991:U:H2'	57:BA:1992:G:H5"	1.70	0.74
1:Ab:172:ILE:H	1:Ab:172:ILE:CD1	1.98	0.74
22:Aa:1346:A:N1	22:Aa:1374:A:H5"	2.02	0.74
41:AU:90:VAL:HG21	42:AV:47:VAL:HG21	1.69	0.74
57:AA:902:C:H2'	57:AA:903:C:H6	1.52	0.74
57:AA:2240:C:O2'	57:AA:2241:A:H5'	1.87	0.74
2:Bc:181:ASN:ND2	2:Bc:205:GLY:H	1.84	0.74
27:BD:35:LYS:HD2	27:BD:36:PRO:N	2.01	0.74
28:BE:78:LEU:C	28:BE:79:ARG:HD2	2.12	0.74
36:BP:55:ARG:CG	36:BP:56:SER:H	1.99	0.74
37:BQ:32:TYR:HE1	37:BQ:111:GLU:HA	1.51	0.74
39:BS:74:ALA:HB1	39:BS:103:GLU:HB3	1.69	0.74
43:BW:1:MET:HE3	43:BW:2:GLU:H	1.51	0.74
45:BY:31:LEU:HB2	45:BY:32:PRO:HA	1.70	0.74
46:BZ:157:LEU:HD23	46:BZ:157:LEU:H	1.51	0.74
57:BA:8:A:H2'	57:BA:9:U:C5	2.22	0.74
57:BA:271(F):C:H2'	57:BA:271(G):C:H6	1.52	0.74
9:Aj:6:ILE:HG13	9:Aj:72:VAL:O	1.88	0.74
22:Aa:1259:C:H42	22:Aa:1276:G:H1	1.35	0.74
42:AV:38:LEU:C	42:AV:39:LEU:HD13	2.13	0.74
48:A1:3:LYS:HE2	57:AA:1364:G:N7	2.03	0.74
49:A2:51:ARG:HB2	49:A2:55:ARG:NH2	2.02	0.74
1:Bb:172:ILE:H	1:Bb:172:ILE:CD1	1.99	0.74
2:Bc:181:ASN:HD22	2:Bc:205:GLY:H	1.32	0.74
3:Bd:100:ARG:HH12	3:Bd:137:SER:HB3	1.53	0.74
21:By:52:LYS:NZ	21:By:54:LYS:HE3	2.01	0.74
22:Ba:1346:A:N1	22:Ba:1374:A:H5"	2.01	0.74
30:BG:40:ASN:ND2	30:BG:91:ARG:HB2	2.01	0.74
1:Ab:14:GLY:O	1:Ab:15:VAL:HG13	1.88	0.74
3:Ad:9:CYS:SG	3:Ad:22:LYS:HD2	2.28	0.74
21:Ay:47:MET:HB3	21:Ay:48:PRO:HD2	1.68	0.74
30:AG:161:THR:HG22	30:AG:163:ALA:N	1.97	0.74
41:AU:92:ARG:NE	57:AA:996:A:H4'	2.03	0.74
49:A2:47:ASN:HD22	57:AA:95:G:H1'	1.53	0.74
1:Bb:17:PHE:HB2	1:Bb:44:LEU:HD11	1.70	0.74
27:BD:176:ARG:HH11	27:BD:176:ARG:HG2	1.52	0.74
36:BP:16:ARG:HD3	36:BP:18:ARG:N	1.98	0.74
40:BT:89:VAL:HG11	40:BT:91:ARG:NE	2.02	0.74
45:BY:28:LYS:HA	45:BY:38:ILE:HG22	1.68	0.74
57:BA:1014:U:H2'	57:BA:1015:G:H5"	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2681:C:H5	57:BA:2725:A:N6	1.83	0.74
2:Ac:181:ASN:HD22	2:Ac:205:GLY:H	1.35	0.74
8:Ai:37:PHE:HB3	8:Ai:43:ALA:HB2	1.70	0.74
9:Aj:26:ALA:HA	9:Aj:29:ARG:NH2	2.02	0.74
21:Ay:67:ILE:HB	21:Ay:72:VAL:CG1	2.16	0.74
22:Aa:1137:C:H4'	22:Aa:1138:G:C2	2.21	0.74
31:AH:83:TYR:HA	31:AH:135:GLY:H	1.53	0.74
36:AP:35:HIS:H	57:AA:1190:G:H5'	1.53	0.74
39:AS:35:ILE:HD11	39:AS:99:LYS:HE2	1.69	0.74
41:AU:90:VAL:HG12	41:AU:91:ASP:H	1.53	0.74
55:A8:43:GLN:C	55:A8:44:LYS:HD2	2.13	0.74
34:BN:3:THR:C	34:BN:5:VAL:H	1.94	0.74
41:BU:90:VAL:HG22	42:BV:39:LEU:HG	1.69	0.74
42:BV:18:LEU:CD2	42:BV:19:LYS:H	2.01	0.74
42:BV:81:TYR:CE2	57:BA:1187:G:H5"	2.23	0.74
57:BA:657:U:H2'	57:BA:658:C:C6	2.23	0.74
12:Am:69:GLU:O	12:Am:69:GLU:HG3	1.85	0.74
20:Au:4:GLY:HA3	22:Aa:1305:G:H5'	1.70	0.74
22:Aa:1184:G:H2'	22:Aa:1185:G:H8	1.53	0.74
32:AI:134:PRO:O	32:AI:135:GLU:HG2	1.88	0.74
36:AP:25:SER:O	36:AP:30:THR:HG23	1.88	0.74
40:AT:33:LYS:HZ2	40:AT:74:ARG:NH2	1.86	0.74
52:A5:40:LYS:NZ	52:A5:46:CYS:HB3	2.01	0.74
57:AA:1318:C:H3'	57:AA:1319:G:H5"	1.69	0.74
1:Bb:137:ARG:HD3	1:Bb:138:LEU:N	2.03	0.74
18:Bs:11:VAL:HG22	18:Bs:16:LEU:HD11	1.69	0.74
19:Bt:75:ASN:ND2	19:Bt:75:ASN:N	2.33	0.74
21:By:10:ARG:O	21:By:14:GLU:HB2	1.88	0.74
22:Ba:737:A:H2'	22:Ba:738:C:C6	2.22	0.74
22:Ba:1234:C:H1'	22:Ba:1364:U:O2	1.88	0.74
24:Bv:59:A:H2'	24:Bv:60:U:H5'	1.70	0.74
30:BG:18:GLU:HG3	30:BG:22:ARG:HG3	1.67	0.74
36:BP:144:GLU:N	36:BP:145:PRO:HD3	2.03	0.74
57:BA:848:G:H5'	57:BA:848:G:H8	1.51	0.74
57:BA:2294:C:H42	57:BA:2338:G:H1	1.36	0.74
57:BA:2795:G:H22	57:BA:2802:G:H21	1.35	0.74
1:Ab:22:LYS:HE2	1:Ab:22:LYS:H	1.52	0.74
7:Ah:122:ARG:NH1	7:Ah:122:ARG:HB2	2.02	0.74
22:Aa:828:A:H2'	22:Aa:829:G:O4'	1.86	0.74
29:AF:74:ARG:CD	57:AA:674:G:H1'	2.18	0.74
29:AF:157:VAL:CG2	29:AF:194:MET:HG2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:8:PRO:O	31:AH:9:ILE:HG22	1.88	0.74
44:AX:12:VAL:HG22	44:AX:27:THR:O	1.88	0.74
49:A2:46:GLN:HB3	57:AA:95:G:H4'	1.70	0.74
53:A6:10:LEU:H	53:A6:10:LEU:CD2	2.01	0.74
57:AA:622:G:O2'	57:AA:623:G:H5'	1.87	0.74
57:AA:1396:U:H2'	57:AA:1396:U:O2	1.87	0.74
57:AA:2491:U:H4'	57:AA:2570:G:OP1	1.88	0.74
1:Bb:69:LEU:HB3	1:Bb:162:ILE:HG22	1.70	0.74
22:Ba:56:U:H2'	22:Ba:57:G:H8	1.52	0.74
28:BE:203:LYS:O	28:BE:203:LYS:HD2	1.88	0.74
30:BG:95:ARG:O	30:BG:96:ARG:O	2.06	0.74
35:BO:120:GLU:OE2	35:BO:122:LEU:HD21	1.87	0.74
45:BY:95:LYS:HG2	45:BY:101:LYS:N	2.03	0.74
54:B7:45:ALA:O	54:B7:46:VAL:HG23	1.88	0.74
2:Ac:150:LYS:HG3	2:Ac:169:ALA:HB2	1.69	0.73
3:Ad:100:ARG:HH12	3:Ad:137:SER:HB3	1.53	0.73
4:Ae:33:VAL:HG11	4:Ae:109:ILE:HA	1.68	0.73
8:Ai:114:TYR:H	8:Ai:114:TYR:HD2	1.36	0.73
14:Ao:65:ARG:HH11	14:Ao:65:ARG:HG2	1.53	0.73
38:AR:92:GLY:O	57:AA:2880:C:H1'	1.88	0.73
40:AT:28:VAL:HG22	40:AT:47:GLY:H	1.49	0.73
46:AZ:42:VAL:HG13	46:AZ:43:GLU:H	1.53	0.73
57:AA:848:G:H8	57:AA:848:G:H5'	1.52	0.73
9:Bj:26:ALA:HA	9:Bj:29:ARG:NH2	2.03	0.73
21:By:52:LYS:HZ1	21:By:54:LYS:NZ	1.85	0.73
22:Ba:979:C:C3'	22:Ba:980:C:H5"	2.17	0.73
39:BS:52:SER:CB	39:BS:55:ALA:HB3	2.18	0.73
40:BT:91:ARG:HA	40:BT:117:ASP:H	1.52	0.73
45:BY:39:VAL:HG12	45:BY:40:GLU:N	2.02	0.73
46:BZ:180:VAL:C	46:BZ:182:LYS:H	1.96	0.73
3:Ad:47:ARG:HE	3:Ad:49:ARG:HH22	1.36	0.73
12:Am:19:LEU:HD11	12:Am:56:LEU:HD11	1.68	0.73
16:Aq:27:PHE:CZ	16:Aq:36:ILE:HD11	2.22	0.73
22:Aa:1234:C:H1'	22:Aa:1364:U:O2	1.88	0.73
24:Av:59:A:C2'	24:Av:60:U:H5'	2.18	0.73
27:AD:176:ARG:HH11	27:AD:176:ARG:HG2	1.53	0.73
28:AE:46:ALA:CB	28:AE:82:ARG:HA	2.18	0.73
45:AY:39:VAL:HG12	45:AY:40:GLU:N	2.03	0.73
8:Bi:124:GLN:NE2	22:Ba:942:G:H21	1.86	0.73
12:Bm:29:ARG:HH11	12:Bm:64:TRP:CG	2.05	0.73
20:Bu:2:GLY:O	20:Bu:4:GLY:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:746:A:O2'	22:Ba:747:C:H5'	1.88	0.73
22:Ba:1497:G:H2'	22:Ba:1498:U:H5'	1.70	0.73
24:Bv:17:C:H2'	24:Bv:17(A):U:C5	2.22	0.73
28:BE:61:ARG:H	28:BE:62:PRO:CD	1.99	0.73
32:BI:134:PRO:O	32:BI:135:GLU:HG2	1.88	0.73
37:BQ:10:ARG:HB2	37:BQ:10:ARG:NH1	2.02	0.73
47:B0:43:THR:HG22	57:BA:2331:G:O2'	1.88	0.73
51:B4:14:ILE:HG23	51:B4:31:ILE:HG21	1.68	0.73
57:BA:2313:C:H2'	57:BA:2314:C:C6	2.21	0.73
3:Ad:150:GLU:CD	3:Ad:151:LYS:H	1.95	0.73
40:AT:85:LYS:HB3	40:AT:85:LYS:HZ2	1.52	0.73
46:AZ:28:MET:HE3	46:AZ:37:VAL:HG11	1.70	0.73
57:AA:8:A:H2'	57:AA:9:U:C5	2.22	0.73
57:AA:315:G:H2'	57:AA:316:C:C6	2.24	0.73
11:Bl:55:VAL:HG12	11:Bl:69:TYR:HA	1.70	0.73
22:Ba:194:C:H2'	22:Ba:195:A:H5"	1.71	0.73
39:BS:36:TYR:H	39:BS:36:TYR:HD1	1.35	0.73
41:BU:90:VAL:HG21	42:BV:47:VAL:HG21	1.69	0.73
57:BA:782:A:H5'	57:BA:783:A:C2	2.23	0.73
30:AG:77:ILE:O	30:AG:77:ILE:HG23	1.88	0.73
8:Bi:95:LYS:HD3	8:Bi:96:LEU:N	2.03	0.73
22:Ba:591:U:H2'	22:Ba:592:G:C8	2.24	0.73
26:BC:48:LEU:HD11	26:BC:172:ILE:HG22	1.69	0.73
27:BD:172:TYR:HD1	27:BD:186:HIS:HA	1.51	0.73
30:BG:141:PHE:O	30:BG:144:ILE:HG22	1.87	0.73
42:BV:18:LEU:HD13	42:BV:19:LYS:H	1.54	0.73
44:BX:12:VAL:HG21	44:BX:17:ALA:HB1	1.69	0.73
57:BA:1846:G:H8	57:BA:1846:G:H5'	1.53	0.73
17:Ar:36:ASN:HB3	17:Ar:39:VAL:CB	2.19	0.73
17:Ar:50:ILE:CD1	17:Ar:70:ILE:HG21	2.19	0.73
22:Aa:979:C:C3'	22:Aa:980:C:H5"	2.18	0.73
27:AD:34:VAL:C	27:AD:36:PRO:HD2	2.13	0.73
27:AD:79:VAL:HG21	27:AD:111:LEU:CD1	2.18	0.73
28:AE:27:LEU:HD22	40:AT:1:MET:HE1	1.70	0.73
32:AI:92:VAL:O	32:AI:119:PRO:HA	1.87	0.73
46:AZ:81:ARG:HH11	46:AZ:81:ARG:CB	2.01	0.73
55:A8:16:ILE:HD12	55:A8:57:ARG:HG2	1.70	0.73
55:A8:56:GLU:O	55:A8:59:LYS:N	2.19	0.73
57:AA:672:C:C2'	57:AA:673:C:H5"	2.18	0.73
57:AA:782:A:H5'	57:AA:783:A:C2	2.23	0.73
2:Bc:43:LEU:O	2:Bc:47:LEU:HB3	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bg:16:LEU:HD13	8:Bi:42:ARG:HA	1.69	0.73
12:Bm:19:LEU:HD11	12:Bm:56:LEU:HD11	1.71	0.73
22:Ba:1003:G:N2	22:Ba:1038:C:H42	1.86	0.73
30:BG:6:ALA:HB1	30:BG:10:LYS:HD2	1.71	0.73
31:BH:83:TYR:HA	31:BH:135:GLY:H	1.52	0.73
45:BY:95:LYS:HG2	45:BY:101:LYS:H	1.52	0.73
19:At:16:HIS:CE1	22:Aa:333:G:H4'	2.24	0.73
27:AD:172:TYR:CD1	27:AD:186:HIS:HA	2.22	0.73
27:AD:259:THR:HG22	57:AA:1798:U:C5'	2.19	0.73
27:AD:259:THR:HG21	57:AA:1803:A:O2'	1.89	0.73
30:AG:140:ILE:HD12	30:AG:141:PHE:N	2.03	0.73
36:AP:64:LYS:HE2	57:AA:631:A:OP1	1.88	0.73
39:AS:11:LYS:N	39:AS:11:LYS:HD2	2.03	0.73
7:Bh:89:PRO:HA	7:Bh:92:ARG:NH1	2.03	0.73
21:By:87:TYR:OH	23:Bx:21:CCC:O2C	2.06	0.73
38:BR:3:HIS:HB2	57:BA:1654:A:P	2.28	0.73
40:BT:38:ASN:HD22	40:BT:40:THR:HG23	1.53	0.73
40:BT:54:ARG:HA	40:BT:59:THR:HB	1.70	0.73
45:BY:39:VAL:HG12	45:BY:40:GLU:H	1.53	0.73
52:B5:46:CYS:SG	52:B5:47:PRO:HD2	2.28	0.73
57:BA:272(J):C:O2'	57:BA:274:G:H5'	1.87	0.73
57:BA:654(S):G:O5'	57:BA:654(T):C:H5"	1.88	0.73
11:Al:89:ARG:HB2	11:Al:89:ARG:NH1	2.00	0.73
36:AP:16:ARG:C	36:AP:16:ARG:HH11	1.96	0.73
44:AX:12:VAL:CG2	44:AX:17:ALA:HB1	2.19	0.73
57:AA:2219:G:O2'	57:AA:2220:G:H5'	1.89	0.73
27:BD:46:GLN:N	27:BD:46:GLN:OE1	2.22	0.73
32:BI:91:SER:HB3	32:BI:121:LYS:HZ3	1.54	0.73
32:BI:123:LEU:HD11	32:BI:144:VAL:HG22	1.69	0.73
36:BP:16:ARG:HD3	36:BP:16:ARG:C	2.13	0.73
57:BA:672:C:O2'	57:BA:673:C:H5"	1.89	0.73
4:Ae:145:LYS:O	4:Ae:149:GLU:HG2	1.88	0.73
6:Ag:16:LEU:HD13	8:Ai:42:ARG:HA	1.69	0.73
10:Ak:124:LYS:HZ3	10:Ak:125:PHE:HE1	1.37	0.73
11:Al:126:LYS:HE2	11:Al:126:LYS:HA	1.69	0.73
18:As:11:VAL:HG22	18:As:16:LEU:HD11	1.70	0.73
22:Aa:650:G:O2'	22:Aa:651:C:H5'	1.89	0.73
27:AD:46:GLN:N	27:AD:46:GLN:OE1	2.22	0.73
27:AD:71:ASP:CB	27:AD:103:ARG:HH22	2.02	0.73
32:AI:66:GLU:OE2	32:AI:134:PRO:HD2	1.88	0.73
40:AT:35:LYS:O	40:AT:36:GLU:HB3	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:AT:54:ARG:HA	40:AT:59:THR:HB	1.69	0.73
57:AA:1846:G:H5'	57:AA:1846:G:H8	1.53	0.73
5:Bf:43:LEU:H	5:Bf:43:LEU:CD1	2.01	0.73
7:Bh:36:LEU:HA	7:Bh:39:LEU:HD23	1.69	0.73
21:By:62:LEU:HD11	21:By:75:VAL:CG1	2.17	0.73
26:BC:34:ALA:HB1	26:BC:40:GLU:HG3	1.70	0.73
31:BH:50:VAL:HG12	31:BH:51:ARG:N	2.02	0.73
36:BP:63:PRO:HD2	57:BA:2394:C:OP1	1.88	0.73
40:BT:28:VAL:CG1	40:BT:46:GLU:HA	2.14	0.73
45:BY:28:LYS:HZ2	45:BY:28:LYS:N	1.82	0.73
46:BZ:15:PRO:O	46:BZ:19:ARG:HG3	1.89	0.73
46:BZ:53:ILE:HG22	46:BZ:71:VAL:O	1.89	0.73
58:BB:3:C:H42	58:BB:118:G:H1	1.34	0.73
7:Ah:40:ALA:C	7:Ah:42:GLU:H	1.97	0.73
22:Aa:737:A:H2'	22:Aa:738:C:C6	2.24	0.73
29:AF:20:LEU:HD12	29:AF:199:TRP:HZ3	1.53	0.73
36:AP:67:MET:N	57:AA:2415:G:H4'	2.02	0.73
40:AT:70:VAL:HG12	40:AT:71:GLY:N	2.04	0.73
42:AV:18:LEU:CD2	42:AV:19:LYS:H	2.01	0.73
48:A1:5:CYS:SG	48:A1:62:VAL:HG23	2.29	0.73
57:AA:272(J):C:O2'	57:AA:274:G:H5'	1.88	0.73
57:AA:330:A:C2	57:AA:1210:A:H2'	2.24	0.73
3:Bd:170:VAL:HG12	3:Bd:174:LEU:HB2	1.71	0.73
19:Bt:75:ASN:HD22	19:Bt:75:ASN:N	1.79	0.73
24:Bv:4:G:O2'	24:Bv:5:G:H8	1.69	0.73
30:BG:169:ALA:O	30:BG:173:LEU:HG	1.89	0.73
38:BR:92:GLY:O	57:BA:2880:C:H1'	1.89	0.73
43:BW:34:ASN:ND2	52:B5:39:MET:HB2	2.04	0.73
45:BY:19:LYS:HE3	57:BA:329:G:H1	1.53	0.73
2:Ac:5:ILE:HG21	9:Aj:51:ARG:HH12	1.54	0.73
7:Ah:12:ARG:HH11	7:Ah:26:VAL:HA	1.51	0.73
11:Al:32:PHE:HB3	11:Al:85:ILE:O	1.89	0.73
22:Aa:1442(A):G:H3'	22:Aa:1442(B):A:H5'	1.71	0.73
28:AE:132:HIS:HB3	57:AA:744:G:OP1	1.88	0.73
29:AF:4:VAL:HG22	29:AF:19:GLU:OE1	1.89	0.73
35:AO:88:ASN:HD21	35:AO:90:GLN:HB2	1.53	0.73
36:AP:144:GLU:N	36:AP:145:PRO:HD3	2.03	0.73
42:AV:35:LEU:HB2	42:AV:57:VAL:HG13	1.70	0.73
45:AY:76:CYS:HB3	45:AY:96:ILE:CD1	2.19	0.73
51:A4:3:GLU:HG2	58:AB:43:C:OP1	1.89	0.73
57:AA:2524:G:H8	57:AA:2524:G:H5'	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:37:PHE:HB3	8:Bi:43:ALA:HB2	1.70	0.73
12:Bm:65:LYS:CA	12:Bm:66:LEU:HG	2.18	0.73
22:Ba:1423:G:C5'	35:BO:49:ARG:NH2	2.50	0.73
55:B8:16:ILE:HD12	55:B8:57:ARG:HG2	1.71	0.73
55:B8:50:LEU:HD12	55:B8:51:ALA:N	2.04	0.73
57:BA:672:C:H2'	57:BA:673:C:H5'	1.71	0.73
2:Ac:18:TRP:H	2:Ac:18:TRP:HE3	1.37	0.72
12:Am:23:TYR:HB2	12:Am:67:GLU:OE1	1.89	0.72
16:Aq:59:ILE:CG2	16:Aq:71:PHE:HB3	2.19	0.72
22:Aa:1084:G:H5'	22:Aa:1102:A:OP2	1.88	0.72
25:Aw:62:C:H4'	26:AC:53:ARG:HG3	1.71	0.72
34:AN:73:THR:HG23	34:AN:82:LEU:HD11	1.69	0.72
36:AP:16:ARG:HD3	36:AP:16:ARG:C	2.14	0.72
39:AS:55:ALA:CB	58:AB:117:G:H5'	2.17	0.72
57:AA:2397:G:N2	57:AA:2420:C:H1'	2.04	0.72
1:Bb:71:VAL:HB	1:Bb:164:VAL:CG1	2.18	0.72
2:Bc:18:TRP:H	2:Bc:18:TRP:HE3	1.36	0.72
22:Ba:390:C:H2'	22:Ba:391:G:H8	1.54	0.72
27:BD:142:VAL:HG23	27:BD:192:THR:C	2.14	0.72
29:BF:122:LYS:HE2	29:BF:122:LYS:HA	1.69	0.72
36:BP:32:THR:HG21	36:BP:37:GLY:CA	2.19	0.72
36:BP:58:THR:O	36:BP:61:ARG:NE	2.21	0.72
36:BP:62:LEU:HB2	57:BA:2393:A:H5'	1.71	0.72
45:BY:25:GLY:HA3	45:BY:39:VAL:CG1	2.19	0.72
57:BA:1657:C:H2'	57:BA:1658:C:H6	1.52	0.72
1:Ab:80:ILE:H	1:Ab:80:ILE:CD1	2.02	0.72
3:Ad:121:VAL:O	3:Ad:134:ASP:HA	1.88	0.72
8:Ai:124:GLN:NE2	22:Aa:942:G:H21	1.85	0.72
30:AG:128:ARG:NH1	57:AA:2315:G:H21	1.86	0.72
32:AI:77:LEU:HD21	32:AI:79:ILE:HB	1.69	0.72
34:AN:58:ASP:OD1	34:AN:124:ALA:HB1	1.89	0.72
39:AS:12:PHE:O	39:AS:14:VAL:HG23	1.89	0.72
48:A1:44:PRO:HB2	48:A1:46:LEU:HD12	1.71	0.72
53:A6:25:LYS:HD2	57:AA:2285:C:H41	1.52	0.72
57:AA:2158:A:H4'	57:AA:2159:G:C5'	2.17	0.72
57:AA:2645:G:H3'	57:AA:2646:C:C5'	2.18	0.72
57:AA:2712:U:H1'	57:AA:2712(A):A:C8	2.24	0.72
8:Bi:28:VAL:HA	8:Bi:63:ILE:O	1.88	0.72
10:Bk:109:VAL:HG13	17:Br:85:LEU:O	1.89	0.72
32:BI:109:ILE:HG21	32:BI:114:LEU:HD11	1.71	0.72
36:BP:33:ARG:O	36:BP:34:GLY:C	2.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:60:THR:HG22	40:BT:77:PRO:HA	1.71	0.72
40:BT:91:ARG:CB	40:BT:116:ALA:HA	2.17	0.72
41:BU:92:ARG:HB3	42:BV:11:GLN:NE2	2.04	0.72
57:BA:1396:U:H2'	57:BA:1396:U:O2	1.87	0.72
57:BA:2158:A:H4'	57:BA:2159:G:C5'	2.17	0.72
57:BA:2219:G:O2'	57:BA:2220:G:H5'	1.89	0.72
18:As:6:LYS:H	18:As:6:LYS:CD	2.02	0.72
22:Aa:221:C:H2'	22:Aa:222:U:H6	1.55	0.72
34:AN:39:ARG:HD3	34:AN:41:ASP:HB2	1.69	0.72
36:AP:99:LEU:HA	36:AP:102:ARG:HH22	1.54	0.72
36:AP:101:VAL:HG13	36:AP:106:LEU:HD23	1.71	0.72
38:AR:10:LEU:HB3	38:AR:17:ARG:CD	2.19	0.72
41:AU:108:GLU:HG3	42:AV:44:LYS:HD3	1.70	0.72
55:A8:59:LYS:NZ	55:A8:59:LYS:CB	2.51	0.72
57:AA:1997:G:O2'	57:AA:1998:G:H5'	1.89	0.72
3:Bd:104:VAL:HG21	3:Bd:140:VAL:HG21	1.71	0.72
15:Bp:10:GLY:HA2	22:Ba:624:C:O3'	1.88	0.72
29:BF:22:ALA:O	29:BF:26:ALA:HB2	1.89	0.72
39:BS:25:ARG:HG3	39:BS:88:ASP:HB2	1.71	0.72
57:BA:141:A:H8	57:BA:1408:C:HO2'	1.37	0.72
57:BA:271(X):G:C2'	57:BA:271(Y):U:H5"	2.19	0.72
57:BA:2855:C:H2'	57:BA:2856:C:H6	1.54	0.72
1:Ab:69:LEU:HB3	1:Ab:162:ILE:HG22	1.70	0.72
8:Ai:95:LYS:HD3	8:Ai:96:LEU:N	2.04	0.72
11:Al:41:ARG:HG2	11:Al:42:THR:H	1.54	0.72
28:AE:34:VAL:HG13	28:AE:48:GLN:HG2	1.71	0.72
28:AE:61:ARG:C	28:AE:63:LEU:H	1.96	0.72
30:AG:131:TYR:H	30:AG:159:VAL:HG13	1.54	0.72
31:AH:90:LYS:HB3	31:AH:159:GLU:OE2	1.88	0.72
1:Bb:17:PHE:CB	1:Bb:44:LEU:HD11	2.19	0.72
10:Bk:126:ARG:NH1	10:Bk:126:ARG:HB3	2.04	0.72
22:Ba:1425:U:H2'	22:Ba:1426:C:H6	1.54	0.72
30:BG:137:GLU:HA	30:BG:152:LEU:HD12	1.72	0.72
36:BP:16:ARG:C	36:BP:16:ARG:HH11	1.97	0.72
36:BP:25:SER:O	36:BP:30:THR:HG23	1.88	0.72
36:BP:85:LEU:HD21	36:BP:116:GLY:O	1.90	0.72
37:BQ:60:ARG:HG2	46:BZ:179:ASP:OD1	1.88	0.72
38:BR:11:ASN:O	38:BR:12:ARG:HG3	1.88	0.72
40:BT:70:VAL:HG12	40:BT:71:GLY:N	2.04	0.72
44:BX:12:VAL:CG2	44:BX:17:ALA:HB1	2.18	0.72
46:BZ:22:GLY:O	46:BZ:41:LEU:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:152:ALA:HA	46:BZ:167:PRO:HB2	1.70	0.72
53:B6:15:GLU:HG2	53:B6:16:CYS:O	1.90	0.72
57:BA:2397:G:N2	57:BA:2420:C:H1'	2.05	0.72
2:Ac:43:LEU:O	2:Ac:47:LEU:HB3	1.88	0.72
2:Ac:77:ILE:HG23	2:Ac:84:ILE:CG2	2.20	0.72
12:Am:65:LYS:CA	12:Am:66:LEU:HG	2.17	0.72
22:Aa:148:G:H2'	22:Aa:149:A:H8	1.53	0.72
30:AG:51:ARG:NE	30:AG:51:ARG:HA	2.04	0.72
36:AP:32:THR:HG21	36:AP:37:GLY:CA	2.19	0.72
40:AT:22:PHE:HD2	40:AT:22:PHE:H	1.37	0.72
40:AT:91:ARG:CB	40:AT:116:ALA:HA	2.19	0.72
41:AU:90:VAL:HG12	41:AU:91:ASP:N	2.04	0.72
4:Be:137:GLU:HG3	4:Be:141:GLN:NE2	2.03	0.72
9:Bj:40:LEU:CD2	9:Bj:41:PRO:HD2	2.18	0.72
27:BD:77:ALA:CB	27:BD:97:TYR:HA	2.19	0.72
32:BI:58:LEU:C	32:BI:60:GLU:H	1.97	0.72
36:BP:97:PRO:HD3	36:BP:126:VAL:O	1.88	0.72
57:BA:1884:A:H2'	57:BA:1885:A:C5'	2.09	0.72
4:Ae:101:ILE:HD11	4:Ae:119:LEU:HD23	1.71	0.72
7:Ah:84:ARG:HH12	7:Ah:86:ILE:HD13	1.53	0.72
9:Aj:40:LEU:CD2	9:Aj:41:PRO:HD2	2.19	0.72
10:Ak:105:VAL:HB	10:Ak:108:ILE:HD11	1.71	0.72
22:Aa:1349:A:H2'	22:Aa:1350:A:C8	2.24	0.72
22:Aa:1423:G:H5'	35:AO:49:ARG:HH22	1.52	0.72
27:AD:48:ARG:HG3	27:AD:48:ARG:NH1	2.05	0.72
28:AE:5:LEU:HB2	28:AE:51:PHE:HD2	1.53	0.72
30:AG:145:THR:HG21	30:AG:148:MET:HB3	1.72	0.72
32:AI:92:VAL:HA	32:AI:96:ASP:HB2	1.71	0.72
42:AV:81:TYR:CE2	57:AA:1187:G:H5"	2.24	0.72
43:AW:59:VAL:HG12	43:AW:60:ASN:N	2.03	0.72
46:AZ:110:GLY:HA2	46:AZ:146:ILE:HG23	1.70	0.72
46:AZ:165:VAL:HG12	46:AZ:166:SER:N	2.00	0.72
51:A4:34:GLU:O	51:A4:35:VAL:HG23	1.90	0.72
55:A8:14:VAL:HG23	55:A8:24:ALA:HB2	1.71	0.72
57:AA:654(S):G:O5'	57:AA:654(T):C:H5"	1.89	0.72
57:AA:676:A:H2	57:AA:802:A:H61	1.37	0.72
2:Bc:70:VAL:HG12	2:Bc:72:LYS:N	2.03	0.72
3:Bd:22:LYS:O	3:Bd:113:SER:HB3	1.89	0.72
11:Bl:53:ARG:HH12	11:Bl:92:ASP:HB3	1.54	0.72
18:Bs:45:VAL:HG12	18:Bs:64:GLU:H	1.55	0.72
22:Ba:67:C:H2'	22:Ba:68:G:C8	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1347:G:H22	22:Ba:1373:G:H2'	1.55	0.72
39:BS:11:LYS:N	39:BS:11:LYS:HD2	2.04	0.72
40:BT:3:ARG:HE	57:BA:2876:G:H4'	1.54	0.72
40:BT:27:THR:HG23	40:BT:28:VAL:H	1.54	0.72
41:BU:93:LYS:HD3	57:BA:997:G:OP1	1.88	0.72
57:BA:2590:A:O2'	57:BA:2591:C:H5'	1.89	0.72
4:Ae:96:PRO:HA	4:Ae:117:ASP:OD2	1.88	0.72
8:Ai:28:VAL:HA	8:Ai:63:ILE:O	1.90	0.72
12:Am:49:THR:HG22	12:Am:51:ALA:H	1.55	0.72
30:AG:173:LEU:HD22	30:AG:178:PHE:CE1	2.25	0.72
46:AZ:69:THR:HG22	46:AZ:90:VAL:HG22	1.70	0.72
7:Bh:12:ARG:HH11	7:Bh:26:VAL:HA	1.52	0.72
17:Br:70:ILE:HG23	17:Br:79:LEU:HD13	1.69	0.72
19:Bt:73:HIS:O	19:Bt:76:ALA:HB3	1.90	0.72
22:Ba:148:G:H2'	22:Ba:149:A:H8	1.55	0.72
22:Ba:1412:C:H2'	22:Ba:1413:A:C8	2.23	0.72
36:BP:33:ARG:O	36:BP:35:HIS:O	2.08	0.72
41:BU:102:GLU:HG3	42:BV:2:PHE:CZ	2.25	0.72
43:BW:29:LEU:HD21	43:BW:33:ARG:HH21	1.54	0.72
55:B8:6:THR:CG2	55:B8:63:PRO:HD3	2.20	0.72
57:BA:212:G:O2'	57:BA:213:A:H5'	1.90	0.72
57:BA:2761:G:C3'	57:BA:2762:G:H5"	2.20	0.72
20:Au:2:GLY:O	20:Au:4:GLY:N	2.23	0.72
21:Ay:81:ARG:C	21:Ay:83:ARG:H	1.97	0.72
28:AE:59:VAL:HG21	28:AE:63:LEU:HA	1.71	0.72
42:AV:51:VAL:HG12	42:AV:52:VAL:N	2.02	0.72
48:A1:45:ASN:HD21	48:A1:47:GLN:NE2	1.86	0.72
57:AA:330:A:HO2'	57:AA:331:A:H8	1.36	0.72
57:AA:2761:G:C3'	57:AA:2762:G:H5"	2.19	0.72
2:Bc:77:ILE:HG23	2:Bc:84:ILE:CG2	2.20	0.72
11:Bl:69:TYR:HB3	11:Bl:99:HIS:HD2	1.55	0.72
14:Bo:63:ARG:O	14:Bo:67:LEU:HD12	1.90	0.72
16:Bq:7:THR:CG2	16:Bq:58:GLU:HG2	2.19	0.72
27:BD:24:ILE:HG12	27:BD:25:THR:N	2.05	0.72
28:BE:51:PHE:HD1	28:BE:52:LEU:N	1.87	0.72
29:BF:4:VAL:HG22	29:BF:19:GLU:OE1	1.90	0.72
29:BF:28:ILE:H	29:BF:28:ILE:HD13	1.54	0.72
31:BH:43:VAL:CG1	31:BH:52:VAL:HG22	2.18	0.72
36:BP:146:VAL:HG22	36:BP:147:LEU:N	2.05	0.72
55:B8:61:LEU:HD12	55:B8:61:LEU:N	2.04	0.72
57:BA:2310:A:O2'	57:BA:2311:A:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Al:53:ARG:HH12	11:Al:92:ASP:HB3	1.53	0.72
36:AP:78:PRO:HA	36:AP:110:TYR:CE2	2.25	0.72
40:AT:16:ARG:HH12	40:AT:19:LEU:HD21	1.54	0.72
49:A2:63:VAL:O	49:A2:66:GLU:HG2	1.89	0.72
55:A8:29:LYS:HD3	55:A8:44:LYS:HG2	1.72	0.72
57:AA:1039:G:H2'	57:AA:1040:C:C6	2.25	0.72
10:Bk:105:VAL:HB	10:Bk:108:ILE:HD11	1.70	0.72
30:BG:96:ARG:HH21	30:BG:97:ASP:CB	2.02	0.72
35:BO:90:GLN:O	35:BO:91:LEU:HB2	1.90	0.72
45:BY:87:LYS:O	45:BY:88:LYS:HB2	1.88	0.72
45:BY:88:LYS:NZ	45:BY:93:GLY:HA3	2.04	0.72
53:B6:5:VAL:HG13	53:B6:7:ILE:H	1.54	0.72
55:B8:29:LYS:HD3	55:B8:44:LYS:HG2	1.71	0.72
55:B8:56:GLU:O	55:B8:59:LYS:N	2.22	0.72
11:Al:23:LYS:O	11:Al:24:VAL:HG23	1.89	0.72
11:Al:69:TYR:HB3	11:Al:99:HIS:HD2	1.54	0.72
21:Ay:62:LEU:HD11	21:Ay:75:VAL:CG1	2.20	0.72
22:Aa:868:C:H2'	22:Aa:869:G:O4'	1.90	0.72
22:Aa:1016:A:H2'	22:Aa:1017:G:O4'	1.90	0.72
27:AD:35:LYS:N	27:AD:36:PRO:HD2	2.05	0.72
30:AG:160:VAL:HG12	30:AG:161:THR:N	2.03	0.72
31:AH:66:GLY:HA2	31:AH:69:ARG:HB3	1.71	0.72
49:A2:46:GLN:O	49:A2:49:LYS:HG3	1.90	0.72
1:Bb:14:GLY:O	1:Bb:15:VAL:HG13	1.90	0.72
1:Bb:80:ILE:HD11	1:Bb:208:ILE:CG2	2.20	0.72
3:Bd:31:CYS:C	3:Bd:33:MET:H	1.98	0.72
11:Bl:47:LYS:HE2	11:Bl:48:PRO:CD	2.20	0.72
17:Br:36:ASN:HB3	17:Br:39:VAL:CB	2.20	0.72
29:BF:164:ARG:HH11	29:BF:164:ARG:HG2	1.55	0.72
30:BG:111:LEU:HB2	30:BG:112:PRO:HD3	1.71	0.72
57:BA:2240:C:O2'	57:BA:2241:A:H5'	1.90	0.72
7:Ah:89:PRO:HA	7:Ah:92:ARG:HH11	1.55	0.71
16:Aq:7:THR:CG2	16:Aq:58:GLU:HG2	2.20	0.71
22:Aa:1402:C:H2'	22:Aa:1403:C:O4'	1.90	0.71
30:AG:47:LYS:H	30:AG:51:ARG:HG3	1.55	0.71
31:AH:9:ILE:HG23	31:AH:9:ILE:O	1.90	0.71
42:AV:29:PRO:O	42:AV:61:VAL:HG22	1.90	0.71
45:AY:10:GLY:HA2	45:AY:27:VAL:HG13	1.70	0.71
45:AY:39:VAL:HG12	45:AY:40:GLU:H	1.54	0.71
45:AY:95:LYS:HG2	45:AY:101:LYS:N	2.04	0.71
57:AA:208:C:H2'	57:AA:209:C:C6	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1542:A:H3'	57:AA:1542:A:C8	2.25	0.71
2:Bc:5:ILE:HG21	9:Bj:51:ARG:HH12	1.55	0.71
4:Be:19:MET:O	4:Be:20:GLN:HB2	1.89	0.71
12:Bm:65:LYS:C	12:Bm:70:LEU:HB2	2.15	0.71
22:Ba:1421:G:O2'	22:Ba:1422:G:H5'	1.90	0.71
27:BD:121:PRO:HB3	27:BD:135:PHE:CE1	2.24	0.71
34:BN:58:ASP:OD1	34:BN:124:ALA:HB1	1.89	0.71
52:B5:54:GLY:CA	52:B5:55:ARG:HE	2.03	0.71
55:B8:43:GLN:C	55:B8:44:LYS:HD2	2.15	0.71
4:Ae:6:PHE:HB2	4:Ae:34:VAL:HG22	1.72	0.71
4:Ae:137:GLU:HG3	4:Ae:141:GLN:NE2	2.05	0.71
11:Al:47:LYS:HE2	11:Al:48:PRO:HD3	1.72	0.71
11:Al:75:HIS:HD2	11:Al:77:LEU:HB2	1.55	0.71
14:Ao:74:ASP:OD1	14:Ao:77:ARG:HG2	1.89	0.71
25:Aw:24:U:H2'	25:Aw:25:C:C6	2.24	0.71
41:AU:25:TRP:CH2	57:AA:17:G:H4'	2.25	0.71
45:AY:25:GLY:HA3	45:AY:39:VAL:CG1	2.21	0.71
46:AZ:31:ARG:HG2	58:AB:106:G:H5"	1.70	0.71
21:By:61:ARG:NE	21:By:81:ARG:HG2	2.05	0.71
22:Ba:141:A:H1'	22:Ba:182:U:O2	1.90	0.71
22:Ba:1349:A:H2'	22:Ba:1350:A:C8	2.25	0.71
29:BF:192:LEU:CD2	29:BF:194:MET:HG3	2.19	0.71
30:BG:114:ILE:O	30:BG:115:ARG:C	2.33	0.71
31:BH:66:GLY:HA2	31:BH:69:ARG:HB3	1.72	0.71
36:BP:23:PRO:HB2	36:BP:33:ARG:CD	2.20	0.71
39:BS:35:ILE:HD11	39:BS:99:LYS:HE2	1.71	0.71
40:BT:65:LYS:NZ	40:BT:66:VAL:H	1.87	0.71
45:BY:7:VAL:HB	45:BY:8:LYS:CE	2.20	0.71
45:BY:7:VAL:HB	45:BY:8:LYS:CD	2.19	0.71
46:BZ:163:LEU:H	46:BZ:163:LEU:CD2	2.02	0.71
57:BA:1997:G:O2'	57:BA:1998:G:H5'	1.89	0.71
1:Ab:164:VAL:CG2	1:Ab:186:ALA:HB2	2.19	0.71
2:Ac:181:ASN:ND2	2:Ac:205:GLY:H	1.87	0.71
3:Ad:170:VAL:HG12	3:Ad:174:LEU:HB2	1.71	0.71
10:Ak:57:THR:HG23	10:Ak:60:ALA:H	1.55	0.71
30:AG:152:LEU:HD23	30:AG:152:LEU:N	2.04	0.71
31:AH:7:LEU:HD22	31:AH:65:HIS:CE1	2.25	0.71
35:AO:4:PRO:O	35:AO:5:GLN:HB2	1.90	0.71
36:AP:101:VAL:HA	36:AP:107:LYS:H	1.55	0.71
41:AU:92:ARG:HB3	42:AV:11:GLN:NE2	2.05	0.71
1:Bb:22:LYS:HE2	1:Bb:22:LYS:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Be:98:THR:HB	4:Be:117:ASP:HB3	1.73	0.71
18:Bs:6:LYS:H	18:Bs:6:LYS:CD	2.03	0.71
22:Ba:392:G:H2'	22:Ba:393:A:H8	1.56	0.71
22:Ba:940:C:H2'	22:Ba:941:G:C8	2.25	0.71
22:Ba:1016:A:H2'	22:Ba:1017:G:O4'	1.89	0.71
27:BD:145:VAL:HG12	27:BD:146:GLU:O	1.89	0.71
31:BH:7:LEU:HD21	31:BH:69:ARG:HD2	1.71	0.71
36:BP:88:LEU:O	36:BP:90:ARG:N	2.23	0.71
36:BP:101:VAL:HG13	36:BP:106:LEU:HD23	1.71	0.71
37:BQ:1:MET:O	37:BQ:2:LEU:HB2	1.91	0.71
40:BT:28:VAL:HG13	40:BT:46:GLU:CA	2.16	0.71
47:B0:25:ARG:HD2	47:B0:29:GLN:NE2	2.05	0.71
52:B5:54:GLY:C	52:B5:55:ARG:NE	2.48	0.71
2:Ac:14:ILE:HG12	2:Ac:15:THR:N	2.05	0.71
4:Ae:57:LYS:HE2	4:Ae:61:TYR:HE2	1.56	0.71
17:Ar:70:ILE:HG23	17:Ar:79:LEU:HD13	1.72	0.71
27:AD:24:ILE:HG12	27:AD:25:THR:N	2.03	0.71
34:AN:62:VAL:HG11	34:AN:67:LEU:HD21	1.71	0.71
36:AP:48:PRO:HG2	36:AP:49:ARG:N	2.05	0.71
37:AQ:1:MET:O	37:AQ:2:LEU:HB2	1.88	0.71
40:AT:16:ARG:NH1	40:AT:19:LEU:HD21	2.04	0.71
43:AW:96:ILE:CD1	57:AA:2012:G:H4'	2.19	0.71
45:AY:7:VAL:HB	45:AY:8:LYS:CE	2.19	0.71
52:A5:48:GLU:O	52:A5:49:CYS:SG	2.48	0.71
53:A6:15:GLU:HG2	53:A6:16:CYS:O	1.89	0.71
8:Bi:77:ILE:O	8:Bi:81:ILE:HG12	1.91	0.71
11:Bl:41:ARG:HG2	11:Bl:42:THR:H	1.55	0.71
22:Ba:148:G:O2'	22:Ba:149:A:H5'	1.88	0.71
22:Ba:1053:G:C3'	22:Ba:1054:C:H5'	2.19	0.71
22:Ba:1259:C:H42	22:Ba:1276:G:H1	1.36	0.71
29:BF:9:ILE:HG22	29:BF:11:VAL:O	1.90	0.71
29:BF:66:PRO:O	29:BF:67:GLN:HB3	1.90	0.71
38:BR:10:LEU:HB3	38:BR:17:ARG:CD	2.19	0.71
45:BY:88:LYS:HZ3	45:BY:93:GLY:HA3	1.55	0.71
14:Ao:65:ARG:HG2	14:Ao:65:ARG:NH1	2.05	0.71
21:Ay:5:LEU:HD22	21:Ay:7:PHE:CE1	2.25	0.71
26:AC:34:ALA:HB1	26:AC:40:GLU:HG3	1.72	0.71
28:AE:111:ARG:HD2	28:AE:160:TYR:CE1	2.25	0.71
31:AH:41:MET:HE3	31:AH:42:ARG:H	1.55	0.71
35:AO:93:PRO:HD3	35:AO:114:ILE:HD11	1.73	0.71
37:AQ:27:VAL:HG12	37:AQ:28:ALA:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AS:23:ARG:HB3	39:AS:24:LEU:HD22	1.71	0.71
54:A7:5:TRP:CD1	54:A7:7:PRO:HD3	2.26	0.71
57:AA:2795:G:H22	57:AA:2802:G:H21	1.35	0.71
2:Bc:43:LEU:HD21	2:Bc:91:LEU:HD21	1.73	0.71
12:Bm:65:LYS:HE3	12:Bm:70:LEU:N	2.05	0.71
22:Ba:353:A:H8	22:Ba:353:A:H5'	1.56	0.71
22:Ba:1442(B):A:H2'	40:BT:118:ARG:NH1	2.06	0.71
36:BP:101:VAL:HA	36:BP:107:LYS:H	1.55	0.71
40:BT:5:ALA:HB3	57:BA:2875:C:O2'	1.90	0.71
42:BV:81:TYR:C	42:BV:82:ARG:HD2	2.16	0.71
45:BY:95:LYS:HE2	45:BY:101:LYS:H	1.53	0.71
46:BZ:125:LEU:HG	46:BZ:164:ALA:HB3	1.71	0.71
54:B7:5:TRP:CD1	54:B7:7:PRO:HD3	2.25	0.71
1:Ab:18:GLY:O	1:Ab:19:HIS:HB2	1.91	0.71
22:Aa:936:C:H2'	22:Aa:937:A:O4'	1.90	0.71
22:Aa:1003:G:N2	22:Aa:1038:C:H42	1.87	0.71
27:AD:77:ALA:CB	27:AD:97:TYR:HA	2.20	0.71
28:AE:51:PHE:HD1	28:AE:52:LEU:N	1.89	0.71
29:AF:132:VAL:HG22	29:AF:133:ASN:H	1.55	0.71
32:AI:88:ILE:HD11	32:AI:142:VAL:HG22	1.72	0.71
34:AN:17:ASP:OD1	34:AN:56:ASN:HB3	1.90	0.71
39:AS:70:GLY:C	39:AS:101:LEU:HD23	2.15	0.71
47:A0:25:ARG:HD2	47:A0:29:GLN:NE2	2.06	0.71
57:AA:271(X):G:C2'	57:AA:271(Y):U:H5"	2.19	0.71
57:AA:545:C:H2'	57:AA:547:A:H4'	1.72	0.71
57:AA:2313:C:H2'	57:AA:2314:C:C6	2.26	0.71
10:Bk:126:ARG:HB3	10:Bk:126:ARG:HH11	1.55	0.71
22:Ba:221:C:H2'	22:Ba:222:U:H6	1.56	0.71
22:Ba:452:A:HO2'	22:Ba:453:A:H8	1.39	0.71
27:BD:43:ARG:CB	27:BD:54:ARG:HB2	2.21	0.71
27:BD:48:ARG:HG3	27:BD:48:ARG:HH11	1.56	0.71
34:BN:73:THR:CG2	34:BN:82:LEU:HD11	2.20	0.71
46:BZ:108:PRO:HB3	46:BZ:144:LEU:CD2	2.20	0.71
46:BZ:116:VAL:C	46:BZ:174:VAL:HG13	2.15	0.71
52:B5:16:ARG:NH1	52:B5:17:ASP:OD1	2.24	0.71
57:BA:2359:C:H2'	57:BA:2360:A:H8	1.56	0.71
57:BA:2491:U:H4'	57:BA:2570:G:OP1	1.90	0.71
1:Ab:17:PHE:CB	1:Ab:44:LEU:HD11	2.20	0.71
1:Ab:17:PHE:HB2	1:Ab:44:LEU:HD11	1.71	0.71
3:Ad:104:VAL:HG21	3:Ad:140:VAL:HG21	1.72	0.71
3:Ad:150:GLU:HA	3:Ad:153:ARG:HD2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Am:70:LEU:O	12:Am:71:ARG:C	2.33	0.71
38:AR:11:ASN:O	38:AR:12:ARG:HG3	1.91	0.71
41:AU:102:GLU:HG3	42:AV:2:PHE:CZ	2.26	0.71
45:AY:88:LYS:NZ	45:AY:93:GLY:HA3	2.05	0.71
45:AY:96:ILE:O	45:AY:97:ARG:HB2	1.90	0.71
46:AZ:103:ARG:O	46:AZ:138:GLU:HA	1.89	0.71
49:A2:25:VAL:O	49:A2:29:LYS:HG2	1.89	0.71
57:AA:927:G:H5'	57:AA:928:G:OP2	1.90	0.71
22:Ba:1324:A:H4'	22:Ba:1362:C:H4'	1.71	0.71
27:BD:34:VAL:C	27:BD:36:PRO:HD2	2.14	0.71
27:BD:79:VAL:HG21	27:BD:111:LEU:CD1	2.19	0.71
31:BH:7:LEU:HD22	31:BH:65:HIS:CE1	2.26	0.71
35:BO:113:LYS:O	35:BO:117:LEU:HB2	1.91	0.71
40:BT:35:LYS:O	40:BT:36:GLU:HB3	1.91	0.71
44:BX:64:LYS:HZ2	44:BX:73:ARG:HH21	1.38	0.71
57:BA:184:C:H2'	57:BA:185:U:H6	1.54	0.71
57:BA:1542:A:H3'	57:BA:1542:A:C8	2.25	0.71
57:BA:2313:C:H2'	57:BA:2314:C:H6	1.55	0.71
1:Ab:88:ALA:HB2	1:Ab:219:VAL:CG1	2.20	0.71
12:Am:71:ARG:O	12:Am:72:ALA:C	2.33	0.71
12:Am:116:THR:O	12:Am:117:VAL:C	2.33	0.71
13:An:37:PHE:HE1	13:An:53:LEU:HD22	1.56	0.71
22:Aa:15:G:H2'	22:Aa:16:A:H8	1.55	0.71
22:Aa:1079:G:H2'	22:Aa:1080:A:C8	2.26	0.71
28:AE:4:ILE:HG12	28:AE:5:LEU:N	2.05	0.71
29:AF:122:LYS:HE2	29:AF:122:LYS:HA	1.70	0.71
31:AH:156:ALA:O	31:AH:157:TYR:C	2.33	0.71
38:AR:99:LYS:H	38:AR:99:LYS:CD	2.04	0.71
41:AU:13:LYS:HE2	41:AU:13:LYS:N	2.06	0.71
53:A6:16:CYS:SG	53:A6:48:VAL:HG21	2.30	0.71
10:Bk:61:ALA:CB	10:Bk:90:GLY:HA3	2.21	0.71
11:Bl:32:PHE:HB3	11:Bl:85:ILE:O	1.89	0.71
12:Bm:89:GLY:C	12:Bm:93:ARG:HD2	2.15	0.71
13:Bn:37:PHE:HE1	13:Bn:53:LEU:HD22	1.56	0.71
28:BE:59:VAL:HG21	28:BE:63:LEU:HA	1.72	0.71
28:BE:111:ARG:HD2	28:BE:160:TYR:CE1	2.26	0.71
30:BG:145:THR:HG21	30:BG:148:MET:HB3	1.73	0.71
57:BA:2103:C:C3'	57:BA:2104:G:H5"	2.20	0.71
1:Ab:167:PRO:HG3	1:Ab:188:ALA:HB2	1.73	0.71
8:Ai:13:ALA:HB2	8:Ai:68:GLY:HA3	1.72	0.71
22:Aa:433:C:H2'	22:Aa:434:U:H6	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1053:G:C3'	22:Aa:1054:C:H5'	2.20	0.71
29:AF:28:ILE:H	29:AF:28:ILE:HD13	1.56	0.71
31:AH:153:LYS:H	31:AH:153:LYS:CD	1.99	0.71
36:AP:146:VAL:HG22	36:AP:147:LEU:N	2.06	0.71
40:AT:5:ALA:HB3	57:AA:2875:C:O2'	1.90	0.71
57:AA:2189:U:H3'	57:AA:2190:G:H5"	1.72	0.71
8:Bi:46:ALA:C	8:Bi:47:LEU:HD12	2.15	0.71
12:Bm:91:ARG:O	12:Bm:96:LEU:O	2.08	0.71
36:BP:35:HIS:H	57:BA:1190:G:H5'	1.55	0.71
46:BZ:3:TYR:HB2	46:BZ:57:ILE:HA	1.73	0.71
49:B2:48:HIS:HA	49:B2:51:ARG:HG3	1.73	0.71
57:BA:94:C:H5'	57:BA:94(A):G:OP2	1.89	0.71
57:BA:298:G:H5'	57:BA:299:A:OP1	1.91	0.71
57:BA:927:G:H5'	57:BA:928:G:OP2	1.91	0.71
57:BA:2698:U:H2'	57:BA:2699:C:C6	2.26	0.71
2:Ac:71:ALA:HA	2:Ac:106:VAL:H	1.54	0.71
10:Ak:109:VAL:HG13	17:Ar:85:LEU:O	1.89	0.71
18:As:45:VAL:HG12	18:As:64:GLU:H	1.54	0.71
21:Ay:44:LEU:HD21	21:Ay:50:CYS:CB	2.20	0.71
32:AI:62:LYS:HD2	32:AI:133:HIS:HD2	1.56	0.71
36:AP:33:ARG:O	36:AP:34:GLY:C	2.34	0.71
40:AT:3:ARG:HE	57:AA:2876:G:H4'	1.55	0.71
48:A1:90:ILE:O	48:A1:94:LEU:HD23	1.91	0.71
57:AA:2126:A:H61	57:AA:2163:C:H4'	1.56	0.71
17:Br:36:ASN:HB3	17:Br:39:VAL:CG2	2.20	0.71
22:Ba:433:C:H2'	22:Ba:434:U:H6	1.54	0.71
29:BF:20:LEU:HD12	29:BF:199:TRP:HZ3	1.54	0.71
30:BG:68:PRO:HB2	30:BG:90:LEU:CD1	2.21	0.71
53:B6:26:ASN:O	53:B6:27:LYS:HB2	1.91	0.71
53:B6:30:THR:O	53:B6:32:ASN:N	2.24	0.71
57:BA:364:C:C2'	57:BA:365:C:H5"	2.21	0.71
57:BA:1405:U:H2'	57:BA:1406:U:C6	2.26	0.71
1:Ab:80:ILE:HD12	1:Ab:80:ILE:N	2.04	0.70
1:Ab:102:LEU:HD12	1:Ab:102:LEU:H	1.55	0.70
22:Aa:67:C:H2'	22:Aa:68:G:C8	2.25	0.70
22:Aa:1307:U:H2'	22:Aa:1308:U:C6	2.26	0.70
34:AN:58:ASP:O	34:AN:60:ILE:N	2.23	0.70
35:AO:114:ILE:HD12	35:AO:114:ILE:H	1.54	0.70
36:AP:89:ALA:HA	36:AP:121:LYS:HD3	1.72	0.70
46:AZ:151:HIS:HA	46:AZ:171:ILE:CG1	2.19	0.70
54:A7:45:ALA:O	54:A7:46:VAL:HG23	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:27:G:N2	57:AA:512:G:H2'	2.06	0.70
1:Bb:101:MET:HE2	1:Bb:101:MET:HA	1.73	0.70
3:Bd:192:GLU:CD	3:Bd:192:GLU:H	1.98	0.70
10:Bk:57:THR:HG23	10:Bk:60:ALA:H	1.56	0.70
22:Ba:650:G:O2'	22:Ba:651:C:H5'	1.90	0.70
22:Ba:936:C:H2'	22:Ba:937:A:O4'	1.91	0.70
28:BE:61:ARG:C	28:BE:63:LEU:H	1.96	0.70
29:BF:132:VAL:HG22	29:BF:133:ASN:H	1.55	0.70
36:BP:89:ALA:HA	36:BP:121:LYS:HD3	1.71	0.70
39:BS:95:HIS:CG	39:BS:96:GLY:H	2.09	0.70
43:BW:40:ASN:O	43:BW:41:LYS:HG2	1.90	0.70
45:BY:7:VAL:CG2	45:BY:8:LYS:HZ2	2.04	0.70
51:B4:34:GLU:O	51:B4:35:VAL:HG23	1.91	0.70
57:BA:394:A:O2'	57:BA:395:U:H5'	1.91	0.70
8:Ai:33:PHE:CZ	8:Ai:47:LEU:HD11	2.26	0.70
8:Ai:77:ILE:O	8:Ai:81:ILE:HG12	1.91	0.70
12:Am:69:GLU:O	12:Am:69:GLU:CG	2.39	0.70
22:Aa:250:A:H4'	22:Aa:251:G:O5'	1.91	0.70
30:AG:131:TYR:HE2	30:AG:133:LEU:HD23	1.56	0.70
42:AV:18:LEU:HD13	42:AV:19:LYS:H	1.56	0.70
45:AY:13:VAL:HB	45:AY:28:LYS:HD3	1.73	0.70
46:AZ:17:ALA:HA	46:AZ:20:ARG:CB	2.21	0.70
46:AZ:110:GLY:O	46:AZ:113:ALA:HB3	1.91	0.70
50:A3:27:GLY:HA3	50:A3:35:ARG:NH1	2.06	0.70
57:AA:32:C:O2'	57:AA:33:U:H5'	1.91	0.70
57:AA:2114:A:H2'	57:AA:2115:G:O4'	1.91	0.70
57:AA:2761:G:H3'	57:AA:2762:G:H5"	1.73	0.70
12:Bm:83:ASP:CG	12:Bm:84:ILE:H	1.98	0.70
21:By:43:LYS:HA	21:By:51:TYR:CA	2.21	0.70
21:By:87:TYR:OH	23:Bx:20:A:H2'	1.90	0.70
22:Ba:250:A:H4'	22:Ba:251:G:O5'	1.89	0.70
22:Ba:389:A:H2'	22:Ba:390:C:H5'	1.72	0.70
22:Ba:512:U:H2'	22:Ba:513:C:H6	1.54	0.70
22:Ba:1172:C:H2'	22:Ba:1173:G:H8	1.55	0.70
26:BC:181:PHE:H	26:BC:181:PHE:HD1	1.39	0.70
36:BP:17:LYS:HG3	36:BP:19:VAL:CG2	2.21	0.70
36:BP:64:LYS:HE2	57:BA:631:A:OP1	1.90	0.70
22:Aa:141:A:H1'	22:Aa:182:U:O2	1.91	0.70
22:Aa:390:C:H2'	22:Aa:391:G:H8	1.55	0.70
22:Aa:1109:C:H2'	22:Aa:1110:A:O4'	1.90	0.70
30:AG:72:ARG:CG	30:AG:87:PRO:HD2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:124:SER:HB2	30:AG:131:TYR:CE1	2.26	0.70
32:AI:123:LEU:HD11	32:AI:144:VAL:HG22	1.72	0.70
33:AJ:58:LEU:CB	57:AA:1107:G:H5'	2.21	0.70
50:A3:5:LYS:HB2	50:A3:36:VAL:HG12	1.72	0.70
11:Bl:41:ARG:HH12	11:Bl:57:LYS:NZ	1.90	0.70
12:Bm:113:PRO:O	12:Bm:114:ARG:HG3	1.91	0.70
16:Bq:27:PHE:CZ	16:Bq:36:ILE:HD11	2.27	0.70
18:Bs:58:VAL:HG21	18:Bs:75:ALA:HB2	1.72	0.70
25:Bw:19:G:H4'	25:Bw:20:U:OP2	1.91	0.70
34:BN:58:ASP:O	34:BN:60:ILE:N	2.23	0.70
36:BP:33:ARG:NH1	57:BA:587:C:H3'	2.06	0.70
36:BP:99:LEU:HA	36:BP:102:ARG:HH22	1.56	0.70
39:BS:95:HIS:CG	39:BS:96:GLY:N	2.59	0.70
1:Ab:88:ALA:HB2	1:Ab:219:VAL:HG13	1.74	0.70
5:Af:43:LEU:H	5:Af:43:LEU:CD1	2.03	0.70
8:Ai:100:GLY:C	8:Ai:102:LEU:H	2.00	0.70
21:Ay:60:TYR:O	21:Ay:61:ARG:HD3	1.91	0.70
25:Aw:25:C:H2'	25:Aw:26:G:C8	2.23	0.70
25:Aw:69:C:H2'	25:Aw:70:G:H8	1.55	0.70
29:AF:3:GLU:CA	29:AF:24:LEU:HG	2.20	0.70
30:AG:73:ALA:H	30:AG:87:PRO:HG3	1.56	0.70
57:AA:2103:C:C3'	57:AA:2104:G:H5"	2.21	0.70
57:AA:2294:C:H42	57:AA:2338:G:H1	1.37	0.70
4:Be:137:GLU:HG3	4:Be:141:GLN:HE21	1.56	0.70
27:BD:71:ASP:CB	27:BD:103:ARG:HH22	2.03	0.70
36:BP:98:GLU:O	36:BP:101:VAL:HG22	1.92	0.70
40:BT:16:ARG:HD2	40:BT:18:ASP:OD1	1.91	0.70
45:BY:84:ARG:HD2	45:BY:97:ARG:NE	2.07	0.70
55:B8:14:VAL:HG21	55:B8:22:VAL:CG1	2.21	0.70
6:Ag:78:ARG:HG2	6:Ag:79:ARG:H	1.56	0.70
8:Ai:16:ARG:HH12	22:Aa:1128:C:H5'	1.57	0.70
57:AA:158:U:H2'	57:AA:171:G:O4'	1.92	0.70
1:Bb:213:LEU:O	1:Bb:213:LEU:HD23	1.91	0.70
4:Be:31:LEU:HD22	4:Be:43:LEU:HD11	1.73	0.70
7:Bh:89:PRO:HG2	22:Ba:878:G:C5'	2.22	0.70
12:Bm:22:ILE:HB	12:Bm:25:ILE:HD12	1.72	0.70
32:BI:87:LYS:HE3	32:BI:121:LYS:HG3	1.74	0.70
43:BW:59:VAL:HG12	43:BW:60:ASN:N	2.06	0.70
50:B3:43:ILE:O	50:B3:47:VAL:HG23	1.91	0.70
57:BA:1318:C:H3'	57:BA:1319:G:H5"	1.72	0.70
8:Ai:120:ARG:HH12	22:Aa:1346:A:H5'	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Ao:63:ARG:O	14:Ao:67:LEU:HD12	1.90	0.70
22:Aa:591:U:H2'	22:Aa:592:G:C8	2.26	0.70
25:Aw:51:C:H2'	25:Aw:52:G:C8	2.27	0.70
30:AG:18:GLU:O	30:AG:22:ARG:HB2	1.91	0.70
30:AG:97:ASP:O	30:AG:101:ILE:HG13	1.91	0.70
40:AT:65:LYS:NZ	40:AT:66:VAL:H	1.89	0.70
57:AA:94:C:H5'	57:AA:94(A):G:OP2	1.91	0.70
57:AA:654(H):G:N2	57:AA:654(J):A:H8	1.90	0.70
10:Bk:13:GLN:NE2	10:Bk:75:TYR:HA	2.06	0.70
12:Bm:70:LEU:O	12:Bm:71:ARG:C	2.35	0.70
26:BC:178:LYS:HB2	26:BC:181:PHE:CD1	2.27	0.70
29:BF:160:ASN:ND2	29:BF:162:LEU:H	1.89	0.70
34:BN:47:ALA:HB2	34:BN:112:LEU:HD11	1.72	0.70
39:BS:51:ALA:HB3	39:BS:73:LEU:HB2	1.72	0.70
41:BU:25:TRP:CH2	57:BA:17:G:H4'	2.26	0.70
43:BW:96:ILE:CD1	57:BA:2012:G:H4'	2.20	0.70
46:BZ:131:ARG:HG3	46:BZ:132:ASN:H	1.57	0.70
57:BA:2564:A:C2	57:BA:2647:U:H4'	2.26	0.70
57:BA:2833:G:H3'	57:BA:2834:G:H5'	1.72	0.70
8:Ai:120:ARG:HH12	22:Aa:1346:A:C5'	2.04	0.70
16:Aq:7:THR:HG22	16:Aq:58:GLU:HG2	1.73	0.70
22:Aa:389:A:H2'	22:Aa:390:C:H5'	1.72	0.70
28:AE:61:ARG:CD	57:AA:2787:C:H1'	2.22	0.70
29:AF:192:LEU:HD21	29:AF:194:MET:HG3	1.74	0.70
35:AO:24:VAL:HG23	35:AO:33:ALA:HB2	1.72	0.70
35:AO:97:ARG:HA	35:AO:117:LEU:HD22	1.71	0.70
57:AA:657:U:H2'	57:AA:658:C:C6	2.25	0.70
57:AA:1779:U:C5	57:AA:1784:A:N7	2.55	0.70
57:AA:2168:G:N2	57:AA:2170:A:H3'	2.07	0.70
1:Bb:18:GLY:O	1:Bb:19:HIS:HB2	1.91	0.70
2:Bc:14:ILE:HG12	2:Bc:15:THR:N	2.05	0.70
4:Be:6:PHE:HB2	4:Be:34:VAL:HG22	1.73	0.70
8:Bi:120:ARG:HH12	22:Ba:1346:A:H5'	1.55	0.70
29:BF:24:LEU:O	29:BF:26:ALA:N	2.25	0.70
31:BH:9:ILE:HG23	31:BH:9:ILE:O	1.91	0.70
32:BI:92:VAL:HA	32:BI:96:ASP:HB2	1.74	0.70
36:BP:61:ARG:NH1	55:B8:13:ARG:HD2	2.06	0.70
36:BP:71:VAL:CG1	36:BP:72:PRO:HD3	2.20	0.70
36:BP:106:LEU:HD13	36:BP:112:LEU:HD23	1.73	0.70
47:B0:81:VAL:O	47:B0:83:PRO:HD3	1.91	0.70
55:B8:4:MET:HG3	55:B8:61:LEU:HD22	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1047:G:H2'	57:BA:1110:G:H22	1.55	0.70
3:Ad:14:ARG:HA	3:Ad:39:PRO:HG3	1.73	0.70
9:Aj:26:ALA:HA	9:Aj:29:ARG:HH22	1.57	0.70
12:Am:22:ILE:HB	12:Am:25:ILE:HD12	1.73	0.70
20:Au:2:GLY:HA3	22:Aa:1305:G:OP1	1.92	0.70
30:AG:36:LYS:HG2	30:AG:37:VAL:N	2.07	0.70
32:AI:120:ILE:HG22	32:AI:121:LYS:N	2.07	0.70
36:AP:85:LEU:HD21	36:AP:116:GLY:O	1.92	0.70
42:AV:81:TYR:C	42:AV:82:ARG:HD2	2.16	0.70
52:A5:36:CYS:SG	52:A5:49:CYS:HB3	2.32	0.70
57:AA:247:G:H4'	57:AA:386:G:C5	2.26	0.70
57:AA:1887:C:C2'	57:AA:1888:G:H5"	2.21	0.70
6:Bg:78:ARG:HG2	6:Bg:79:ARG:H	1.56	0.70
8:Bi:13:ALA:HB2	8:Bi:68:GLY:HA3	1.73	0.70
12:Bm:66:LEU:O	12:Bm:67:GLU:C	2.35	0.70
21:By:52:LYS:CE	21:By:54:LYS:HE3	2.21	0.70
27:BD:35:LYS:N	27:BD:36:PRO:HD2	2.06	0.70
49:B2:47:ASN:ND2	57:BA:94(A):G:H21	1.85	0.70
57:BA:1280:G:C3'	57:BA:1281:G:H5"	2.22	0.70
57:BA:2114:A:H2'	57:BA:2115:G:O4'	1.92	0.70
57:BA:2761:G:H3'	57:BA:2762:G:H5"	1.74	0.70
2:Ac:182:ILE:HG23	2:Ac:202:ILE:O	1.92	0.70
9:Aj:60:ARG:NH2	22:Aa:1367:C:H5'	2.07	0.70
10:Ak:126:ARG:NH1	10:Ak:126:ARG:HB3	2.06	0.70
12:Am:29:ARG:NH1	12:Am:64:TRP:CG	2.60	0.70
26:AC:175:PRO:HG3	57:AA:2124:G:H5"	1.73	0.70
28:AE:72:VAL:HG12	28:AE:72:VAL:O	1.92	0.70
28:AE:101:ARG:HB3	28:AE:169:ASN:ND2	2.06	0.70
29:AF:9:ILE:HG22	29:AF:11:VAL:O	1.91	0.70
30:AG:77:ILE:C	30:AG:79:ASN:H	1.98	0.70
32:AI:109:ILE:CG2	32:AI:114:LEU:HD11	2.22	0.70
43:AW:34:ASN:ND2	52:A5:39:MET:HB2	2.06	0.70
45:AY:76:CYS:HG	45:AY:77:PRO:HD2	1.55	0.70
47:A0:81:VAL:O	47:A0:83:PRO:HD3	1.92	0.70
57:AA:2310:A:O2'	57:AA:2311:A:H5'	1.91	0.70
4:Be:57:LYS:HE2	4:Be:61:TYR:HE2	1.56	0.70
14:Bo:12:ILE:HG12	14:Bo:31:LEU:HD21	1.73	0.70
19:Bt:10:LEU:HD12	19:Bt:11:SER:H	1.56	0.70
29:BF:3:GLU:CA	29:BF:24:LEU:HG	2.21	0.70
29:BF:74:ARG:CD	57:BA:674:G:H1'	2.22	0.70
37:BQ:27:VAL:HG13	37:BQ:105:GLU:OE2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:144:LEU:HD22	46:BZ:144:LEU:H	1.56	0.70
57:BA:545:C:H2'	57:BA:547:A:H4'	1.74	0.70
3:Ad:31:CYS:C	3:Ad:33:MET:H	1.99	0.70
4:Ae:12:LEU:HD22	4:Ae:12:LEU:C	2.17	0.70
9:Aj:6:ILE:HG22	9:Aj:98:ILE:HG13	1.74	0.70
22:Aa:1324:A:H4'	22:Aa:1362:C:H4'	1.73	0.70
28:AE:69:LYS:NZ	28:AE:89:ASP:HA	2.06	0.70
30:AG:111:LEU:HB3	30:AG:117:PHE:CZ	2.27	0.70
55:A8:61:LEU:HD12	55:A8:61:LEU:N	2.06	0.70
57:AA:1547:C:O2'	57:AA:1548:C:H5'	1.92	0.70
57:AA:1709:U:H2'	57:AA:1710:C:C6	2.27	0.70
2:Bc:119:ARG:HG3	2:Bc:119:ARG:HH11	1.57	0.70
4:Be:101:ILE:HD11	4:Be:119:LEU:HD23	1.73	0.70
9:Bj:50:ILE:HD13	9:Bj:50:ILE:N	1.98	0.70
10:Bk:21:ILE:HD12	10:Bk:21:ILE:N	2.07	0.70
22:Ba:924:C:H5'	22:Ba:1399:C:OP2	1.92	0.70
22:Ba:1498:U:C5	23:Bx:17:U:H5'	2.27	0.70
28:BE:46:ALA:CB	28:BE:82:ARG:HA	2.22	0.70
31:BH:41:MET:HE3	31:BH:42:ARG:H	1.56	0.70
32:BI:98:ALA:HA	32:BI:101:LEU:HD22	1.74	0.70
44:BX:12:VAL:HG22	44:BX:27:THR:O	1.90	0.70
53:B6:5:VAL:HG12	53:B6:8:LYS:HB2	1.73	0.70
57:BA:116:C:O2'	57:BA:117:G:H5'	1.92	0.70
4:Ae:98:THR:HB	4:Ae:117:ASP:HB3	1.72	0.69
22:Aa:627:G:O2'	22:Aa:628:G:H5'	1.92	0.69
22:Aa:1172:C:H2'	22:Aa:1173:G:H8	1.55	0.69
27:AD:118:VAL:HG22	27:AD:119:ALA:N	2.07	0.69
30:AG:114:ILE:O	30:AG:115:ARG:C	2.35	0.69
30:AG:142:PRO:HG2	30:AG:143:GLU:H	1.55	0.69
32:AI:77:LEU:HD22	32:AI:140:LEU:HA	1.74	0.69
39:AS:95:HIS:CG	39:AS:96:GLY:H	2.10	0.69
40:AT:31:SER:HG	40:AT:43:GLN:H	1.40	0.69
42:AV:39:LEU:HD12	42:AV:47:VAL:HG11	1.73	0.69
50:A3:43:ILE:O	50:A3:47:VAL:HG23	1.92	0.69
53:A6:5:VAL:HG11	53:A6:7:ILE:HG22	1.73	0.69
57:AA:755:C:H2'	57:AA:756:C:H6	1.56	0.69
57:AA:2120:G:H2'	57:AA:2121:G:C8	2.27	0.69
57:AA:2564:A:C2	57:AA:2647:U:H4'	2.26	0.69
8:Bi:16:ARG:NH2	22:Ba:1128:C:H5"	2.05	0.69
8:Bi:111:ARG:HG2	8:Bi:112:LYS:N	2.07	0.69
9:Bj:24:VAL:O	9:Bj:28:ARG:HG3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:126:LYS:HE2	11:Bl:126:LYS:HA	1.73	0.69
12:Bm:108:ARG:NH1	12:Bm:114:ARG:HG2	2.02	0.69
22:Ba:685:G:O2'	22:Ba:686:U:H5'	1.91	0.69
28:BE:51:PHE:CD1	28:BE:52:LEU:N	2.60	0.69
35:BO:24:VAL:CG2	35:BO:33:ALA:HB2	2.22	0.69
36:BP:126:VAL:CA	36:BP:145:PRO:HB2	2.18	0.69
4:Ae:24:ARG:NH1	22:Aa:15:G:H4'	2.06	0.69
12:Am:83:ASP:CG	12:Am:84:ILE:H	2.00	0.69
12:Am:92:HIS:CD2	12:Am:110:ARG:NH2	2.58	0.69
18:As:58:VAL:HG21	18:As:75:ALA:HB2	1.74	0.69
19:At:23:ARG:HD2	22:Aa:322:C:H4'	1.74	0.69
22:Aa:1347:G:H22	22:Aa:1373:G:H2'	1.54	0.69
30:AG:85:GLY:C	30:AG:87:PRO:HD3	2.17	0.69
32:AI:91:SER:HB3	32:AI:121:LYS:HZ3	1.58	0.69
34:AN:57:ALA:N	34:AN:124:ALA:HA	2.05	0.69
40:AT:91:ARG:HA	40:AT:117:ASP:H	1.55	0.69
45:AY:95:LYS:HE2	45:AY:101:LYS:H	1.57	0.69
46:AZ:94:GLU:HB2	46:AZ:95:PRO:HD2	1.74	0.69
51:A4:2:LYS:NZ	58:AB:44:G:N7	2.40	0.69
54:A7:8:ASN:C	54:A7:8:ASN:HD22	1.98	0.69
3:Bd:90:GLY:CA	3:Bd:204:ILE:HD11	2.21	0.69
10:Bk:20:TYR:HB2	10:Bk:31:THR:HG22	1.75	0.69
35:BO:93:PRO:HD3	35:BO:114:ILE:HD11	1.73	0.69
57:BA:1019:U:O2'	57:BA:1021:A:H2	1.69	0.69
1:Ab:78:GLN:HB3	1:Ab:94:ASN:HD21	1.57	0.69
3:Ad:18:LYS:HE2	3:Ad:31:CYS:HB3	1.72	0.69
3:Ad:192:GLU:CD	3:Ad:192:GLU:H	1.98	0.69
10:Ak:13:GLN:NE2	10:Ak:75:TYR:HA	2.07	0.69
11:Al:41:ARG:HH12	11:Al:57:LYS:NZ	1.90	0.69
22:Aa:194:C:H2'	22:Aa:195:A:H5"	1.72	0.69
27:AD:43:ARG:CB	27:AD:54:ARG:HB2	2.22	0.69
29:AF:24:LEU:O	29:AF:26:ALA:N	2.25	0.69
29:AF:74:ARG:HD2	57:AA:674:G:H1'	1.73	0.69
30:AG:72:ARG:CB	30:AG:87:PRO:HD2	2.22	0.69
31:AH:11:VAL:HG21	31:AH:50:VAL:HG23	1.73	0.69
32:AI:120:ILE:CG2	32:AI:121:LYS:N	2.56	0.69
39:AS:36:TYR:H	39:AS:36:TYR:HD1	1.39	0.69
40:AT:10:VAL:O	40:AT:13:ARG:HG2	1.92	0.69
45:AY:2:ARG:CD	45:AY:3:VAL:HG23	2.22	0.69
57:AA:176:G:O2'	57:AA:177:G:H5'	1.93	0.69
57:AA:2584:U:H2'	57:AA:2585:U:H5'	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2833:G:H3'	57:AA:2834:G:H5'	1.73	0.69
1:Bb:80:ILE:HD12	1:Bb:80:ILE:N	2.07	0.69
2:Bc:71:ALA:HA	2:Bc:106:VAL:H	1.55	0.69
3:Bd:18:LYS:HE2	3:Bd:31:CYS:HB3	1.74	0.69
3:Bd:120:LEU:HB3	3:Bd:126:ILE:HD11	1.74	0.69
7:Bh:53:VAL:HG12	7:Bh:54:ASP:OD2	1.92	0.69
12:Bm:29:ARG:HD3	12:Bm:64:TRP:CZ2	2.26	0.69
22:Ba:1079:G:H2'	22:Ba:1080:A:C8	2.27	0.69
27:BD:49:ILE:HG22	57:BA:779:U:OP1	1.93	0.69
30:BG:66:GLN:HG2	51:B4:1:MET:HG3	1.74	0.69
36:BP:78:PRO:HA	36:BP:110:TYR:CE2	2.27	0.69
57:BA:330:A:C2	57:BA:1210:A:H2'	2.26	0.69
58:BB:32:C:H2'	58:BB:33:G:C8	2.28	0.69
10:Ak:126:ARG:HB3	10:Ak:126:ARG:HH11	1.56	0.69
16:Aq:59:ILE:HG21	16:Aq:71:PHE:HB3	1.73	0.69
27:AD:121:PRO:HB3	27:AD:135:PHE:CE1	2.27	0.69
29:AF:24:LEU:CB	29:AF:25:PRO:HD2	2.20	0.69
30:AG:9:ARG:C	30:AG:11:TYR:H	1.99	0.69
30:AG:96:ARG:N	30:AG:99:MET:HE2	2.07	0.69
30:AG:117:PHE:O	30:AG:118:ARG:HB2	1.89	0.69
31:AH:158:HIS:CD2	31:AH:170:ARG:HA	2.28	0.69
52:A5:3:LYS:NZ	57:AA:2614:A:H5'	2.08	0.69
57:AA:1280:G:C3'	57:AA:1281:G:H5"	2.22	0.69
57:AA:2590:A:O2'	57:AA:2591:C:H5'	1.92	0.69
1:Bb:42:ILE:HD13	1:Bb:203:GLY:HA2	1.75	0.69
1:Bb:88:ALA:HB2	1:Bb:219:VAL:HG13	1.75	0.69
5:Bf:67:MET:HB2	5:Bf:68:PRO:HD2	1.75	0.69
7:Bh:40:ALA:C	7:Bh:42:GLU:H	1.98	0.69
11:Bl:47:LYS:HE2	11:Bl:48:PRO:HD3	1.74	0.69
19:Bt:23:ARG:HD2	22:Ba:322:C:H4'	1.74	0.69
21:By:61:ARG:HB2	21:By:86:VAL:HG11	1.73	0.69
22:Ba:1084:G:H5'	22:Ba:1102:A:OP2	1.91	0.69
29:BF:21:ALA:C	29:BF:23:ASP:H	1.99	0.69
30:BG:97:ASP:O	30:BG:101:ILE:HG13	1.92	0.69
32:BI:88:ILE:HD11	32:BI:142:VAL:HG22	1.73	0.69
36:BP:30:THR:CG2	36:BP:31:ALA:H	2.04	0.69
43:BW:91:GLY:HA2	57:BA:1614:A:N1	2.07	0.69
51:B4:46:GLN:NE2	51:B4:47:GLN:H	1.91	0.69
4:Ae:68:GLU:HG3	4:Ae:70:PRO:HD3	1.74	0.69
8:Ai:97:LYS:HB3	8:Ai:98:PRO:HD3	1.74	0.69
9:Aj:7:LYS:HD3	9:Aj:71:LEU:HD13	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Am:91:ARG:NH2	12:Am:100:GLY:HA2	2.06	0.69
30:AG:42:GLY:HA2	30:AG:89:GLY:HA2	1.74	0.69
30:AG:65:GLY:O	51:A4:7:PRO:HD2	1.92	0.69
30:AG:106:LEU:HD12	30:AG:110:ALA:CB	2.22	0.69
36:AP:30:THR:CG2	36:AP:31:ALA:H	2.03	0.69
38:AR:2:ARG:HD3	38:AR:5:LYS:CE	2.22	0.69
57:AA:1348:G:C2'	57:AA:1349:A:H5"	2.23	0.69
57:AA:2698:U:H2'	57:AA:2699:C:C6	2.28	0.69
12:Bm:68:GLY:O	12:Bm:69:GLU:CB	2.36	0.69
16:Bq:67:LYS:O	16:Bq:69:LYS:N	2.25	0.69
25:Bw:8:U:H3	25:Bw:14:A:H62	1.40	0.69
28:BE:61:ARG:CD	57:BA:2787:C:H1'	2.22	0.69
28:BE:167:VAL:HG22	28:BE:170:LEU:HD11	1.74	0.69
30:BG:108:ASN:C	30:BG:109:VAL:HG23	2.18	0.69
34:BN:17:ASP:OD1	34:BN:56:ASN:HB3	1.91	0.69
40:BT:33:LYS:HZ2	40:BT:74:ARG:NH2	1.89	0.69
41:BU:49:HIS:HD2	57:BA:534:U:O2'	1.76	0.69
44:BX:12:VAL:HG23	44:BX:13:LEU:H	1.57	0.69
47:B0:23:VAL:HG21	57:BA:857:C:H4'	1.75	0.69
54:B7:8:ASN:C	54:B7:8:ASN:HD22	1.98	0.69
57:BA:2168:G:N2	57:BA:2170:A:H3'	2.06	0.69
57:BA:2808:U:O2'	57:BA:2809:A:H5'	1.92	0.69
2:Ac:107:GLN:CD	2:Ac:107:GLN:H	2.01	0.69
14:Ao:23:GLY:HA3	22:Aa:750:G:N3	2.07	0.69
22:Aa:1452:C:H4'	22:Aa:1456:G:C5'	2.23	0.69
27:AD:49:ILE:HG22	57:AA:779:U:OP1	1.92	0.69
32:AI:58:LEU:C	32:AI:60:GLU:H	1.99	0.69
56:A9:18:ARG:HH22	57:AA:1123:C:H1'	1.57	0.69
57:AA:2808:U:O2'	57:AA:2809:A:H5'	1.93	0.69
3:Bd:79:PHE:O	3:Bd:79:PHE:HD2	1.76	0.69
9:Bj:6:ILE:HG22	9:Bj:98:ILE:HG13	1.74	0.69
14:Bo:16:ALA:HB1	14:Bo:21:ASP:HB3	1.75	0.69
14:Bo:23:GLY:HA3	22:Ba:750:G:N3	2.08	0.69
17:Br:50:ILE:CD1	17:Br:70:ILE:HG21	2.23	0.69
20:Bu:2:GLY:C	20:Bu:4:GLY:H	2.00	0.69
22:Ba:1203:C:H2'	22:Ba:1204:A:H8	1.57	0.69
26:BC:175:PRO:HG3	57:BA:2124:G:H5"	1.75	0.69
30:BG:2:PRO:O	30:BG:3:LEU:HD12	1.93	0.69
30:BG:16:ARG:HD3	30:BG:31:VAL:HG21	1.72	0.69
35:BO:67:LYS:HZ3	57:BA:2726:U:H6	1.41	0.69
39:BS:23:ARG:HB3	39:BS:24:LEU:HD22	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:65:LYS:HZ2	40:BT:65:LYS:HA	1.56	0.69
41:BU:83:LEU:HD12	41:BU:88:ILE:HD12	1.74	0.69
41:BU:90:VAL:CG2	42:BV:47:VAL:HG21	2.22	0.69
45:BY:31:LEU:N	45:BY:31:LEU:HD22	2.08	0.69
46:BZ:120:ILE:HB	46:BZ:172:ALA:HA	1.74	0.69
53:B6:8:LYS:HZ1	57:BA:2285:C:H5	1.41	0.69
3:Ad:30:LYS:CB	3:Ad:35:ARG:HD2	2.22	0.69
11:Al:53:ARG:NH2	22:Aa:522:C:H41	1.91	0.69
20:Au:2:GLY:C	20:Au:4:GLY:H	2.01	0.69
21:Ay:26:LEU:HD21	21:Ay:55:LEU:CD1	2.16	0.69
22:Aa:512:U:H2'	22:Aa:513:C:C6	2.27	0.69
22:Aa:960:U:H2'	22:Aa:960:U:O2	1.91	0.69
27:AD:24:ILE:CG1	27:AD:25:THR:N	2.55	0.69
31:AH:43:VAL:CG1	31:AH:52:VAL:HG22	2.21	0.69
34:AN:120:LEU:HD22	34:AN:122:VAL:HG23	1.75	0.69
45:AY:87:LYS:O	45:AY:88:LYS:HB2	1.92	0.69
50:A3:19:GLN:HE22	50:A3:52:HIS:CE1	2.11	0.69
57:AA:141:A:H8	57:AA:1408:C:O2'	1.74	0.69
57:AA:184:C:H2'	57:AA:185:U:H6	1.56	0.69
57:AA:1688:U:H1'	57:AA:1701:A:C6	2.28	0.69
1:Bb:102:LEU:H	1:Bb:102:LEU:HD12	1.56	0.69
2:Bc:108:ASN:ND2	2:Bc:144:SER:HB2	2.06	0.69
12:Bm:108:ARG:NE	12:Bm:114:ARG:HD3	2.08	0.69
19:Bt:57:ARG:NH1	19:Bt:102:GLY:HA3	2.07	0.69
21:By:56:ARG:HB3	22:Ba:531:U:OP1	1.92	0.69
22:Ba:1292:U:H2'	22:Ba:1293:G:H8	1.57	0.69
27:BD:259:THR:HG22	57:BA:1798:U:C5'	2.22	0.69
30:BG:77:ILE:HG22	30:BG:77:ILE:O	1.93	0.69
36:BP:46:LYS:HE2	57:BA:195:A:OP1	1.92	0.69
45:BY:95:LYS:CE	45:BY:100:ALA:HB1	2.22	0.69
57:BA:208:C:H2'	57:BA:209:C:C6	2.26	0.69
57:BA:301:G:H1'	57:BA:302:C:C6	2.28	0.69
57:BA:315:G:H2'	57:BA:316:C:C6	2.27	0.69
57:BA:1348:G:C2'	57:BA:1349:A:H5"	2.23	0.69
57:BA:1488:G:H5'	57:BA:1489:U:OP2	1.91	0.69
1:Ab:172:ILE:HD12	1:Ab:172:ILE:N	2.05	0.69
2:Ac:43:LEU:HD21	2:Ac:91:LEU:HD21	1.75	0.69
10:Ak:61:ALA:CB	10:Ak:90:GLY:HA3	2.22	0.69
15:Ap:45:THR:OG1	15:Ap:46:PRO:HD2	1.93	0.69
22:Aa:746:A:O2'	22:Aa:747:C:H5'	1.92	0.69
22:Aa:1116:C:H2'	22:Aa:1117:G:C5'	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1125:U:H5”	22:Aa:1126:U:H5	1.57	0.69
22:Aa:1292:U:H2’	22:Aa:1293:G:H8	1.57	0.69
22:Aa:1435:G:H2’	22:Aa:1436:U:C6	2.27	0.69
22:Aa:1504:G:O2’	22:Aa:1505:G:OP2	2.08	0.69
28:AE:14:ILE:HG12	28:AE:21:VAL:HG23	1.74	0.69
30:AG:73:ALA:HA	57:AA:2312:U:OP1	1.92	0.69
30:AG:125:PHE:HB3	30:AG:130:ASN:O	1.93	0.69
31:AH:41:MET:HE2	31:AH:43:VAL:CG1	2.22	0.69
31:AH:102:ALA:HA	31:AH:117:PRO:HD3	1.74	0.69
35:AO:64:ARG:HB2	35:AO:83:ALA:HB3	1.73	0.69
40:AT:16:ARG:HD2	40:AT:18:ASP:OD1	1.92	0.69
42:AV:64:HIS:ND1	42:AV:92:THR:HG22	2.08	0.69
57:AA:89:G:H3’	57:AA:90:U:C5’	2.23	0.69
57:AA:672:C:H2’	57:AA:673:C:C5’	2.22	0.69
57:AA:672:C:H2’	57:AA:673:C:H5’	1.75	0.69
57:AA:1884:A:H2’	57:AA:1885:A:C5’	2.12	0.69
57:AA:2747:G:O6	57:AA:2755:C:H5”	1.93	0.69
58:AB:80:U:H2’	58:AB:81:G:N2	2.07	0.69
1:Bb:78:GLN:HB3	1:Bb:94:ASN:HD21	1.57	0.69
3:Bd:30:LYS:CB	3:Bd:35:ARG:HD2	2.22	0.69
4:Be:68:GLU:HG3	4:Be:70:PRO:HD3	1.75	0.69
11:Bl:75:HIS:HD2	11:Bl:77:LEU:HB2	1.58	0.69
21:By:52:LYS:NZ	21:By:54:LYS:CE	2.56	0.69
22:Ba:591:U:H2’	22:Ba:592:G:H8	1.57	0.69
27:BD:244:ARG:HB2	57:BA:1902:C:O2’	1.93	0.69
28:BE:14:ILE:HG12	28:BE:21:VAL:HG23	1.73	0.69
30:BG:135:LEU:HD23	30:BG:140:ILE:HD11	1.75	0.69
32:BI:62:LYS:HD2	32:BI:133:HIS:HD2	1.56	0.69
35:BO:64:ARG:HB2	35:BO:83:ALA:HB3	1.74	0.69
39:BS:20:ARG:HA	39:BS:20:ARG:NE	2.07	0.69
42:BV:29:PRO:O	42:BV:61:VAL:HG22	1.91	0.69
45:BY:2:ARG:CD	45:BY:3:VAL:HG23	2.23	0.69
46:BZ:56:VAL:HG22	46:BZ:70:LEU:HG	1.75	0.69
46:BZ:141:VAL:HA	46:BZ:144:LEU:HD21	1.74	0.69
47:B0:14:ARG:HB2	47:B0:14:ARG:NH1	2.01	0.69
47:B0:24:LYS:O	47:B0:25:ARG:HD3	1.93	0.69
51:B4:33:VAL:HG12	51:B4:34:GLU:N	2.08	0.69
53:B6:52:VAL:HG22	53:B6:53:LYS:N	2.08	0.69
57:BA:158:U:H2’	57:BA:171:G:O4’	1.92	0.69
57:BA:621:A:H2’	57:BA:622:G:C5’	2.23	0.69
57:BA:1384:A:N3	57:BA:1405:U:H1’	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2189:U:H3'	57:BA:2190:G:H5"	1.73	0.69
2:Ac:119:ARG:HH11	2:Ac:119:ARG:HG3	1.58	0.69
6:Ag:50:ILE:O	6:Ag:54:THR:HG22	1.93	0.69
9:Aj:50:ILE:HA	9:Aj:60:ARG:CB	2.22	0.69
19:At:75:ASN:ND2	19:At:75:ASN:N	2.32	0.69
24:Av:10:G:N2	24:Av:26:G:H1'	2.07	0.69
27:AD:24:ILE:CG1	27:AD:25:THR:H	2.06	0.69
30:AG:31:VAL:H	30:AG:33:ARG:NH1	1.91	0.69
36:AP:17:LYS:HG3	36:AP:19:VAL:CG2	2.23	0.69
36:AP:85:LEU:HB3	36:AP:114:ILE:HD11	1.75	0.69
40:AT:38:ASN:HD22	40:AT:40:THR:HG23	1.57	0.69
41:AU:90:VAL:CG2	42:AV:47:VAL:HG21	2.23	0.69
44:AX:12:VAL:HG23	44:AX:13:LEU:H	1.56	0.69
57:AA:1845:G:H2'	57:AA:1846:G:C5'	2.07	0.69
58:AB:32:C:H2'	58:AB:33:G:C8	2.28	0.69
4:Be:24:ARG:NH1	22:Ba:15:G:H4'	2.07	0.69
4:Be:145:LYS:O	4:Be:149:GLU:HG2	1.92	0.69
21:By:8:ASP:OD2	21:By:10:ARG:HD2	1.93	0.69
22:Ba:376:G:H2'	22:Ba:377:G:H8	1.58	0.69
22:Ba:1422:G:H4'	35:BO:49:ARG:NH1	2.08	0.69
22:Ba:1486:G:H2'	22:Ba:1487:G:O4'	1.93	0.69
27:BD:142:VAL:HG23	27:BD:192:THR:O	1.93	0.69
30:BG:51:ARG:HE	30:BG:51:ARG:CA	2.05	0.69
30:BG:125:PHE:HD1	30:BG:126:ASP:H	1.38	0.69
31:BH:41:MET:CG	31:BH:42:ARG:H	2.06	0.69
32:BI:4:ILE:HD11	32:BI:44:LEU:HD12	1.75	0.69
37:BQ:134:ARG:HA	37:BQ:137:TYR:CD1	2.28	0.69
40:BT:16:ARG:HH12	40:BT:19:LEU:HD21	1.56	0.69
50:B3:5:LYS:HB2	50:B3:36:VAL:HG12	1.74	0.69
51:B4:5:ILE:N	51:B4:5:ILE:HD13	2.08	0.69
57:BA:2712:U:H1'	57:BA:2712(A):A:C8	2.28	0.69
58:BB:112:U:H2'	58:BB:113:G:H8	1.58	0.69
3:Ad:22:LYS:O	3:Ad:113:SER:HB3	1.92	0.69
8:Ai:111:ARG:HG2	8:Ai:112:LYS:N	2.07	0.69
22:Aa:723:U:H5"	22:Aa:724:G:OP2	1.93	0.69
22:Aa:1000:U:H2'	22:Aa:1001:A:H8	1.58	0.69
26:AC:181:PHE:H	26:AC:181:PHE:HD1	1.39	0.69
32:AI:86:THR:O	32:AI:87:LYS:HB2	1.93	0.69
32:AI:115:ALA:CB	32:AI:128:LEU:HB3	2.20	0.69
33:AJ:49:ALA:HB3	33:AJ:90:ALA:HB1	1.75	0.69
36:AP:33:ARG:O	36:AP:35:HIS:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AS:13:ARG:CG	39:AS:14:VAL:H	2.05	0.69
40:AT:100:TYR:HD2	40:AT:103:ARG:HH21	1.41	0.69
41:AU:112:ARG:NH1	42:AV:46:VAL:HG11	2.07	0.69
44:AX:35:THR:O	44:AX:39:ILE:HG12	1.93	0.69
49:A2:48:HIS:CD2	57:AA:96:G:H4'	2.28	0.69
51:A4:33:VAL:HG12	51:A4:34:GLU:N	2.08	0.69
52:A5:7:PRO:HA	57:AA:2615:U:C2	2.28	0.69
53:A6:26:ASN:O	53:A6:27:LYS:HB2	1.93	0.69
57:AA:364:C:C2'	57:AA:365:C:H5"	2.22	0.69
12:Bm:61:GLU:HA	12:Bm:66:LEU:HD11	1.75	0.69
27:BD:210:GLY:O	27:BD:211:ARG:HB3	1.93	0.69
27:BD:227:ASN:ND2	57:BA:784:A:H5"	2.08	0.69
27:BD:259:THR:HG21	57:BA:1803:A:H4'	1.73	0.69
30:BG:71:THR:HG21	57:BA:2312:U:O3'	1.92	0.69
32:BI:92:VAL:O	32:BI:119:PRO:HA	1.93	0.69
35:BO:65:THR:OG1	35:BO:69:ILE:HD11	1.93	0.69
35:BO:114:ILE:H	35:BO:114:ILE:HD12	1.58	0.69
36:BP:23:PRO:HD2	36:BP:33:ARG:NH2	2.08	0.69
36:BP:58:THR:O	36:BP:58:THR:HG22	1.93	0.69
40:BT:16:ARG:NH1	40:BT:19:LEU:HD21	2.07	0.69
53:B6:5:VAL:HG11	53:B6:7:ILE:HG22	1.74	0.69
2:Ac:22:TRP:CH2	2:Ac:32:LEU:HB3	2.28	0.68
22:Aa:1001(A):G:H2'	22:Aa:1002:G:O4'	1.93	0.68
27:AD:30:GLU:HG3	27:AD:63:ARG:CZ	2.23	0.68
29:AF:39:TRP:O	29:AF:43:LYS:HG2	1.93	0.68
29:AF:66:PRO:O	29:AF:67:GLN:HB3	1.93	0.68
33:AJ:7:VAL:CB	33:AJ:11:ALA:HB3	2.22	0.68
35:AO:65:THR:OG1	35:AO:69:ILE:HD11	1.93	0.68
45:AY:57:GLN:HG2	45:AY:58:GLY:N	2.08	0.68
53:A6:30:THR:O	53:A6:32:ASN:N	2.25	0.68
53:A6:52:VAL:HG22	53:A6:53:LYS:N	2.08	0.68
55:A8:4:MET:HG3	55:A8:61:LEU:HD22	1.75	0.68
57:AA:1488:G:H5'	57:AA:1489:U:OP2	1.92	0.68
2:Bc:22:TRP:CH2	2:Bc:32:LEU:HB3	2.28	0.68
3:Bd:112:VAL:HG11	22:Ba:408:A:H4'	1.75	0.68
8:Bi:120:ARG:HH12	22:Ba:1346:A:C5'	2.05	0.68
22:Ba:1125:U:H5"	22:Ba:1126:U:H5	1.57	0.68
28:BE:77:ILE:CG2	28:BE:78:LEU:H	2.00	0.68
30:BG:68:PRO:HB2	30:BG:90:LEU:HD11	1.74	0.68
31:BH:8:PRO:O	31:BH:9:ILE:HG22	1.93	0.68
31:BH:158:HIS:CD2	31:BH:170:ARG:HA	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:3:LYS:NZ	57:BA:2614:A:H5'	2.07	0.68
2:Ac:108:ASN:ND2	2:Ac:144:SER:HB2	2.06	0.68
9:Aj:5:ARG:NH2	22:Aa:1125:U:H3	1.92	0.68
28:AE:167:VAL:HG22	28:AE:170:LEU:HD11	1.72	0.68
30:AG:44:GLY:HA2	30:AG:88:ILE:HB	1.74	0.68
30:AG:142:PRO:HG2	30:AG:143:GLU:HG2	1.74	0.68
32:AI:127:VAL:HG22	32:AI:139:GLN:HB3	1.75	0.68
35:AO:113:LYS:O	35:AO:117:LEU:HB2	1.94	0.68
37:AQ:134:ARG:HA	37:AQ:137:TYR:CD1	2.28	0.68
7:Bh:87:SER:HB2	7:Bh:93:VAL:HB	1.75	0.68
7:Bh:91:ARG:HH11	7:Bh:91:ARG:HG2	1.58	0.68
8:Bi:16:ARG:HH12	22:Ba:1128:C:H5'	1.59	0.68
12:Bm:70:LEU:HD23	12:Bm:71:ARG:N	2.07	0.68
14:Bo:82:ILE:HD11	14:Bo:87:ILE:O	1.94	0.68
21:By:94:ILE:HG23	21:By:95:LEU:H	1.59	0.68
22:Ba:501:C:H2'	22:Ba:502:G:H8	1.59	0.68
22:Ba:559:A:H4'	22:Ba:560:U:C5'	2.22	0.68
34:BN:62:VAL:CG2	34:BN:66:LYS:HB2	2.24	0.68
35:BO:97:ARG:HA	35:BO:117:LEU:HD22	1.75	0.68
40:BT:31:SER:HG	40:BT:43:GLN:H	1.40	0.68
40:BT:57:PHE:CD2	40:BT:58:ASN:N	2.60	0.68
56:B9:18:ARG:HH22	57:BA:1123:C:H1'	1.56	0.68
1:Ab:90:MET:HA	1:Ab:90:MET:HE2	1.75	0.68
4:Ae:137:GLU:HG3	4:Ae:141:GLN:HE21	1.57	0.68
22:Aa:530:G:N3	22:Aa:530:G:H2'	2.08	0.68
29:AF:22:ALA:O	29:AF:26:ALA:HB2	1.93	0.68
34:AN:73:THR:CG2	34:AN:82:LEU:HD11	2.23	0.68
40:AT:5:ALA:HB2	57:AA:2875:C:C4'	2.20	0.68
40:AT:27:THR:HG23	40:AT:28:VAL:H	1.58	0.68
49:A2:2:LYS:HB2	57:AA:97:C:H5"	1.74	0.68
2:Bc:19:GLU:HG2	2:Bc:40:ARG:HH21	1.57	0.68
4:Be:12:LEU:HD22	4:Be:12:LEU:C	2.18	0.68
8:Bi:70:LYS:O	8:Bi:74:ILE:HG13	1.94	0.68
12:Bm:29:ARG:NH1	12:Bm:64:TRP:CG	2.61	0.68
16:Bq:7:THR:HG22	16:Bq:58:GLU:HG2	1.73	0.68
22:Ba:1431:C:H2'	22:Ba:1432:G:O4'	1.93	0.68
28:BE:60:ASN:OD1	28:BE:61:ARG:N	2.26	0.68
48:B1:29:GLY:C	48:B1:31:GLY:H	2.01	0.68
57:BA:1887:C:C2'	57:BA:1888:G:H5"	2.22	0.68
58:BB:11:C:OP2	58:BB:12:C:H5	1.76	0.68
4:Ae:39:GLY:HA2	4:Ae:69:VAL:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ah:87:SER:HB2	7:Ah:93:VAL:HB	1.75	0.68
10:Ak:67:ASP:OD1	10:Ak:71:LYS:HE3	1.94	0.68
22:Aa:1203:C:H2'	22:Aa:1204:A:H8	1.59	0.68
29:AF:32:LEU:HD11	29:AF:105:VAL:HG13	1.76	0.68
35:AO:67:LYS:HZ3	57:AA:2726:U:H6	1.41	0.68
35:AO:98:VAL:HG13	35:AO:117:LEU:HB3	1.76	0.68
38:AR:9:LYS:O	38:AR:10:LEU:HD23	1.94	0.68
38:AR:98:LEU:HB2	38:AR:113:LEU:HD21	1.75	0.68
45:AY:95:LYS:CE	45:AY:100:ALA:HB1	2.23	0.68
57:AA:1384:A:N3	57:AA:1405:U:H1'	2.08	0.68
57:AA:1405:U:H2'	57:AA:1406:U:C6	2.28	0.68
2:Bc:76:VAL:HG23	2:Bc:77:ILE:HG13	1.76	0.68
3:Bd:47:ARG:HE	3:Bd:49:ARG:HH22	1.37	0.68
3:Bd:59:ARG:HE	3:Bd:59:ARG:CA	2.01	0.68
3:Bd:150:GLU:HA	3:Bd:153:ARG:HD2	1.76	0.68
12:Bm:108:ARG:HE	12:Bm:114:ARG:HD3	1.59	0.68
22:Ba:403:C:H2'	22:Ba:404:U:H6	1.58	0.68
22:Ba:1109:C:H2'	22:Ba:1110:A:O4'	1.94	0.68
27:BD:24:ILE:CG1	27:BD:25:THR:N	2.56	0.68
28:BE:101:ARG:HB3	28:BE:169:ASN:ND2	2.08	0.68
29:BF:192:LEU:HD21	29:BF:194:MET:HG3	1.74	0.68
34:BN:48:MET:H	34:BN:48:MET:HE3	1.59	0.68
37:BQ:27:VAL:HG12	37:BQ:28:ALA:H	1.56	0.68
57:BA:1779:U:C5	57:BA:1784:A:N7	2.54	0.68
57:BA:2584:U:H2'	57:BA:2585:U:H5'	1.74	0.68
14:Ao:56:LEU:O	14:Ao:60:VAL:HG23	1.93	0.68
22:Aa:1033:G:C2'	22:Aa:1034:G:H5'	2.24	0.68
30:AG:170:ARG:HH22	30:AG:182:LYS:HE2	1.57	0.68
32:AI:92:VAL:CG1	32:AI:120:ILE:HD13	2.22	0.68
35:AO:90:GLN:O	35:AO:91:LEU:HB2	1.93	0.68
40:AT:65:LYS:HZ2	40:AT:66:VAL:N	1.91	0.68
40:AT:89:VAL:HG11	40:AT:91:ARG:NE	2.07	0.68
46:AZ:24:LEU:HD23	46:AZ:25:PRO:N	2.08	0.68
46:AZ:135:GLU:O	46:AZ:137:ILE:N	2.26	0.68
57:AA:1506:C:O2	57:AA:1506:C:H2'	1.93	0.68
57:AA:2313:C:H2'	57:AA:2314:C:H6	1.59	0.68
2:Bc:182:ILE:HG23	2:Bc:202:ILE:O	1.94	0.68
5:Bf:69:GLU:O	5:Bf:72:VAL:HG12	1.93	0.68
8:Bi:55:ALA:CB	8:Bi:58:HIS:CD2	2.69	0.68
22:Ba:512:U:H2'	22:Ba:513:C:C6	2.28	0.68
22:Ba:533:A:O2'	22:Ba:534:U:H5"	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:637:G:H2'	22:Ba:638:G:H8	1.59	0.68
22:Ba:868:C:H2'	22:Ba:869:G:O4'	1.93	0.68
22:Ba:1000:U:H2'	22:Ba:1001:A:H8	1.59	0.68
29:BF:40:GLN:NE2	29:BF:184:TYR:CB	2.57	0.68
30:BG:114:ILE:HD11	30:BG:140:ILE:HD12	1.76	0.68
39:BS:95:HIS:HD2	58:BB:48:A:H4'	1.59	0.68
46:BZ:163:LEU:HD23	46:BZ:163:LEU:N	2.08	0.68
49:B2:3:LEU:O	49:B2:7:ARG:HG3	1.94	0.68
53:B6:52:VAL:HG22	53:B6:53:LYS:H	1.58	0.68
57:BA:654(H):G:N2	57:BA:654(J):A:H8	1.91	0.68
12:Am:29:ARG:HD3	12:Am:64:TRP:CD2	2.28	0.68
12:Am:69:GLU:HB2	12:Am:72:ALA:CB	2.24	0.68
19:At:10:LEU:HD12	19:At:11:SER:H	1.59	0.68
21:Ay:47:MET:HB2	21:Ay:50:CYS:SG	2.34	0.68
22:Aa:403:C:H2'	22:Aa:404:U:H6	1.58	0.68
22:Aa:940:C:H2'	22:Aa:941:G:C8	2.28	0.68
22:Aa:1333:A:H2'	22:Aa:1334:G:O4'	1.94	0.68
27:AD:145:VAL:HG12	27:AD:146:GLU:O	1.93	0.68
28:AE:59:VAL:HG11	28:AE:63:LEU:HG	1.76	0.68
28:AE:60:ASN:OD1	28:AE:61:ARG:N	2.27	0.68
28:AE:132:HIS:HA	28:AE:135:HIS:CE1	2.29	0.68
30:AG:72:ARG:HA	30:AG:87:PRO:HG2	1.76	0.68
31:AH:41:MET:CG	31:AH:42:ARG:H	2.06	0.68
35:AO:26:LYS:O	35:AO:27:GLY:O	2.12	0.68
36:AP:58:THR:O	36:AP:58:THR:HG22	1.92	0.68
40:AT:48:ILE:HD12	40:AT:48:ILE:N	2.08	0.68
41:AU:9:VAL:O	41:AU:13:LYS:HG2	1.93	0.68
41:AU:47:TYR:HA	41:AU:50:ARG:HH22	1.58	0.68
56:A9:27:CYS:SG	56:A9:28:GLU:N	2.64	0.68
57:AA:2477:C:H5'	57:AA:2477:C:H6	1.57	0.68
6:Bg:50:ILE:O	6:Bg:54:THR:HG22	1.93	0.68
15:Bp:25:ARG:NH1	22:Ba:134:A:H61	1.92	0.68
18:Bs:31:ILE:HG23	18:Bs:49:ILE:HA	1.76	0.68
22:Ba:1033:G:C2'	22:Ba:1034:G:H5'	2.24	0.68
22:Ba:1037:C:H2'	22:Ba:1038:C:C6	2.29	0.68
22:Ba:1228:C:H2'	22:Ba:1229:A:H8	1.58	0.68
28:BE:4:ILE:HG12	28:BE:5:LEU:N	2.07	0.68
28:BE:132:HIS:HA	28:BE:135:HIS:CE1	2.29	0.68
38:BR:99:LYS:H	38:BR:99:LYS:CD	2.05	0.68
47:B0:51:VAL:N	47:B0:62:LEU:HD12	2.08	0.68
57:BA:1709:U:H2'	57:BA:1710:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1947:C:C2'	57:BA:1948:G:H5"	2.24	0.68
57:BA:2477:C:H5'	57:BA:2477:C:H6	1.58	0.68
1:Ab:11:LEU:HD12	1:Ab:217:ARG:HH22	1.59	0.68
1:Ab:48:MET:HE2	1:Ab:49:GLU:HA	1.75	0.68
1:Ab:97:TRP:CE2	1:Ab:101:MET:HG3	2.28	0.68
1:Ab:213:LEU:O	1:Ab:213:LEU:HD23	1.93	0.68
4:Ae:93:PRO:HG2	7:Ah:105:ARG:NH2	2.07	0.68
8:Ai:9:ARG:HG2	8:Ai:14:VAL:HG13	1.76	0.68
9:Aj:32:ALA:H	9:Aj:78:ASN:ND2	1.92	0.68
19:At:73:HIS:O	19:At:76:ALA:HB3	1.94	0.68
22:Aa:376:G:H2'	22:Aa:377:G:H8	1.59	0.68
28:AE:1:MET:HE2	28:AE:1:MET:N	2.09	0.68
41:AU:49:HIS:HD2	57:AA:534:U:O2'	1.76	0.68
57:AA:2450:A:O2'	57:AA:2451:A:H5'	1.94	0.68
58:AB:112:U:H2'	58:AB:113:G:H8	1.58	0.68
1:Bb:88:ALA:HB2	1:Bb:219:VAL:CG1	2.22	0.68
3:Bd:129:ASN:H	3:Bd:129:ASN:ND2	1.81	0.68
8:Bi:100:GLY:C	8:Bi:102:LEU:H	2.02	0.68
9:Bj:50:ILE:HA	9:Bj:60:ARG:CB	2.23	0.68
11:Bl:6:THR:HG23	11:Bl:9:GLN:NE2	2.08	0.68
22:Ba:1137:C:H4'	22:Ba:1138:G:N2	2.09	0.68
25:Bw:62:C:H4'	26:BC:53:ARG:CG	2.24	0.68
28:BE:102:VAL:HG12	28:BE:200:GLU:HA	1.75	0.68
30:BG:71:THR:HB	30:BG:89:GLY:C	2.19	0.68
34:BN:67:LEU:HD23	34:BN:87:LEU:HD13	1.76	0.68
37:BQ:60:ARG:HG2	46:BZ:179:ASP:CG	2.19	0.68
47:B0:51:VAL:HG22	47:B0:81:VAL:HG23	1.74	0.68
57:BA:1352:U:O2'	57:BA:1353:A:H5'	1.93	0.68
57:BA:1506:C:H2'	57:BA:1506:C:O2	1.93	0.68
57:BA:2287:A:N6	57:BA:2344:U:H3	1.91	0.68
1:Ab:79:ASP:C	1:Ab:81:VAL:H	2.01	0.68
1:Ab:101:MET:HE2	1:Ab:101:MET:HA	1.76	0.68
2:Ac:19:GLU:HG2	2:Ac:40:ARG:HH21	1.58	0.68
8:Ai:16:ARG:HH22	22:Aa:1128:C:C5'	2.05	0.68
8:Ai:16:ARG:NH2	22:Aa:1128:C:H5"	2.04	0.68
9:Aj:44:VAL:HG22	9:Aj:66:ARG:HG2	1.75	0.68
29:AF:34:TRP:CZ2	36:AP:12:ALA:HB2	2.29	0.68
31:AH:28:GLY:HA3	31:AH:79:VAL:HB	1.75	0.68
39:AS:12:PHE:H	39:AS:12:PHE:HD2	1.42	0.68
41:AU:59:ARG:HD3	57:AA:1009:A:C5'	2.23	0.68
45:AY:68:HIS:CD2	57:AA:328:U:H4'	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A0:24:LYS:O	47:A0:25:ARG:HD3	1.94	0.68
57:AA:1047:G:H2'	57:AA:1110:G:H22	1.56	0.68
58:AB:112:U:H2'	58:AB:113:G:C8	2.29	0.68
1:Bb:48:MET:HE2	1:Bb:49:GLU:HA	1.75	0.68
14:Bo:78:TYR:O	14:Bo:82:ILE:HG22	1.94	0.68
15:Bp:45:THR:OG1	15:Bp:46:PRO:HD2	1.94	0.68
22:Ba:15:G:H2'	22:Ba:16:A:H8	1.57	0.68
22:Ba:960:U:H2'	22:Ba:960:U:O2	1.92	0.68
22:Ba:962:C:H2'	22:Ba:963:G:H8	1.59	0.68
30:BG:51:ARG:NE	30:BG:51:ARG:CA	2.56	0.68
30:BG:138:GLN:OE1	30:BG:152:LEU:HA	1.94	0.68
40:BT:10:VAL:O	40:BT:13:ARG:HG2	1.94	0.68
57:BA:581:C:H2'	57:BA:582:G:C8	2.29	0.68
57:BA:676:A:H2	57:BA:802:A:H61	1.39	0.68
57:BA:755:C:H2'	57:BA:756:C:H6	1.58	0.68
2:Ac:70:VAL:HG12	2:Ac:72:LYS:N	2.05	0.68
7:Ah:89:PRO:HG2	22:Aa:878:G:C5'	2.24	0.68
8:Ai:27:THR:HG23	8:Ai:31:GLN:O	1.94	0.68
9:Aj:24:VAL:O	9:Aj:28:ARG:HG3	1.93	0.68
11:Al:25:PRO:C	11:Al:27:LEU:N	2.51	0.68
21:Ay:19:GLY:HA3	22:Aa:1051:C:H4'	1.74	0.68
22:Aa:392:G:H2'	22:Aa:393:A:H8	1.58	0.68
22:Aa:1211:U:H5'	22:Aa:1212:U:OP1	1.94	0.68
31:AH:11:VAL:CG2	31:AH:50:VAL:HG23	2.24	0.68
36:AP:88:LEU:O	36:AP:90:ARG:N	2.25	0.68
36:AP:97:PRO:HD3	36:AP:126:VAL:O	1.94	0.68
36:AP:126:VAL:CA	36:AP:145:PRO:HB2	2.17	0.68
39:AS:20:ARG:HA	39:AS:20:ARG:NE	2.09	0.68
39:AS:30:ARG:NH1	39:AS:35:ILE:HB	2.09	0.68
39:AS:90:GLY:C	39:AS:92:TYR:H	2.00	0.68
42:AV:38:LEU:O	42:AV:52:VAL:HG12	1.94	0.68
43:AW:93:ALA:HB2	57:AA:1614:A:H62	1.58	0.68
52:A5:46:CYS:SG	52:A5:47:PRO:HD2	2.32	0.68
57:AA:1434:A:H61	57:AA:1558:A:N6	1.91	0.68
57:AA:2801(A):A:H4'	57:AA:2802:G:C5'	2.21	0.68
1:Bb:209:ARG:NH1	1:Bb:239:VAL:HG11	2.07	0.68
9:Bj:5:ARG:NH2	22:Ba:1125:U:H3	1.90	0.68
20:Bu:4:GLY:HA3	22:Ba:1305:G:H5'	1.75	0.68
22:Ba:1001(A):G:H2'	22:Ba:1002:G:O4'	1.94	0.68
22:Ba:1211:U:H5'	22:Ba:1212:U:OP1	1.93	0.68
22:Ba:1333:A:H2'	22:Ba:1334:G:O4'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:51:ASP:O	26:BC:54:ARG:HB2	1.94	0.68
29:BF:101:LEU:HD12	29:BF:102:PRO:HD2	1.75	0.68
31:BH:102:ALA:HA	31:BH:117:PRO:HD3	1.76	0.68
36:BP:67:MET:H	57:BA:2415:G:H4'	1.58	0.68
39:BS:12:PHE:HD2	39:BS:12:PHE:H	1.42	0.68
39:BS:67:ARG:HH11	39:BS:67:ARG:CB	2.03	0.68
57:BA:991:C:H5'	57:BA:991:C:H6	1.59	0.68
57:BA:2734:A:H5'	57:BA:2735:G:OP2	1.93	0.68
1:Ab:42:ILE:HD13	1:Ab:203:GLY:HA2	1.75	0.68
3:Ad:61:LYS:HD2	3:Ad:207:TYR:CZ	2.29	0.68
8:Ai:70:LYS:O	8:Ai:74:ILE:HG13	1.94	0.68
22:Aa:962:C:H2'	22:Aa:963:G:H8	1.58	0.68
22:Aa:1464:G:O2'	22:Aa:1465:C:H5'	1.94	0.68
31:AH:41:MET:HE3	31:AH:42:ARG:C	2.19	0.68
52:A5:16:ARG:NH1	52:A5:17:ASP:OD1	2.26	0.68
57:AA:1887:C:C3'	57:AA:1888:G:H5"	2.23	0.68
57:AA:2315:G:H2'	57:AA:2316:C:C6	2.29	0.68
57:AA:2359:C:C2'	57:AA:2360:A:H5'	2.23	0.68
1:Bb:167:PRO:HG3	1:Bb:188:ALA:HB2	1.75	0.68
12:Bm:49:THR:O	12:Bm:53:VAL:HG23	1.94	0.68
22:Ba:473:G:H2'	22:Ba:474:G:H8	1.59	0.68
27:BD:48:ARG:HG3	27:BD:48:ARG:NH1	2.08	0.68
35:BO:4:PRO:O	35:BO:5:GLN:HB2	1.93	0.68
40:BT:22:PHE:H	40:BT:22:PHE:HD2	1.40	0.68
40:BT:28:VAL:O	40:BT:29:ARG:HD3	1.94	0.68
42:BV:1:MET:HE2	42:BV:1:MET:HA	1.76	0.68
42:BV:64:HIS:ND1	42:BV:92:THR:HG22	2.09	0.68
55:B8:48:PHE:O	55:B8:49:VAL:HG13	1.94	0.68
57:BA:2864:G:H2'	57:BA:2865:U:H6	1.59	0.68
1:Ab:12:GLU:C	1:Ab:14:GLY:H	2.02	0.67
1:Ab:80:ILE:HD11	1:Ab:208:ILE:CG2	2.22	0.67
20:Au:12:LYS:HB3	20:Au:17:THR:O	1.94	0.67
22:Aa:1385:G:O2'	22:Aa:1386:G:H5'	1.95	0.67
25:Aw:24:U:H2'	25:Aw:25:C:H6	1.59	0.67
26:AC:30:VAL:HG11	26:AC:42:VAL:HG22	1.76	0.67
27:AD:181:GLU:HA	27:AD:272:ALA:CB	2.23	0.67
31:AH:50:VAL:HG12	31:AH:51:ARG:N	2.09	0.67
31:AH:70:THR:HG22	31:AH:74:ASN:ND2	2.07	0.67
32:AI:4:ILE:HD11	32:AI:44:LEU:HD12	1.76	0.67
36:AP:23:PRO:HD2	36:AP:33:ARG:NH2	2.09	0.67
47:A0:51:VAL:N	47:A0:62:LEU:HD12	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:A2:33:MET:HG2	49:A2:37:PHE:HE1	1.59	0.67
53:A6:11:LEU:HA	53:A6:54:ILE:OXT	1.94	0.67
57:AA:141:A:C8	57:AA:1408:C:O2'	2.46	0.67
58:AB:11:C:OP2	58:AB:12:C:H5	1.76	0.67
58:AB:40:U:C2	58:AB:43:C:H5"	2.29	0.67
15:Bp:74:LEU:O	15:Bp:79:VAL:HG23	1.94	0.67
22:Ba:486:U:H2'	22:Ba:487:A:H8	1.59	0.67
22:Ba:1432:G:OP1	40:BT:108:ARG:HB3	1.93	0.67
26:BC:30:VAL:HG11	26:BC:42:VAL:HG22	1.76	0.67
32:BI:120:ILE:CG2	32:BI:121:LYS:N	2.57	0.67
34:BN:2:LYS:HZ1	42:BV:12:TYR:HA	1.59	0.67
34:BN:31:ALA:HA	34:BN:34:LEU:HD23	1.75	0.67
39:BS:59:LYS:HG2	39:BS:60:GLY:H	1.59	0.67
57:BA:579:G:H2'	57:BA:580:C:C6	2.29	0.67
57:BA:860:U:H5	57:BA:917:A:N7	1.91	0.67
2:Ac:107:GLN:O	2:Ac:108:ASN:HB2	1.93	0.67
28:AE:102:VAL:HG12	28:AE:200:GLU:HA	1.76	0.67
43:AW:19:LEU:HB3	52:A5:25:LEU:HD12	1.76	0.67
45:AY:4:LYS:HD2	45:AY:32:PRO:CG	2.24	0.67
53:A6:5:VAL:HG12	53:A6:8:LYS:HB2	1.75	0.67
9:Bj:44:VAL:HG22	9:Bj:66:ARG:HG2	1.77	0.67
21:By:20:SER:HA	21:By:23:ARG:HH12	1.60	0.67
22:Ba:1163:C:H2'	22:Ba:1164:G:H8	1.58	0.67
27:BD:35:LYS:HB3	27:BD:35:LYS:NZ	2.09	0.67
30:BG:130:ASN:HD21	30:BG:160:VAL:HG13	1.58	0.67
34:BN:57:ALA:N	34:BN:124:ALA:HA	2.05	0.67
35:BO:47:ILE:CG1	35:BO:48:PRO:HD2	2.23	0.67
45:BY:76:CYS:SG	45:BY:77:PRO:CD	2.77	0.67
50:B3:19:GLN:HE22	50:B3:52:HIS:CE1	2.12	0.67
57:BA:1495:A:N3	57:BA:1496:A:C2	2.62	0.67
58:BB:112:U:H2'	58:BB:113:G:C8	2.28	0.67
1:Ab:59:GLU:HG3	1:Ab:225:ALA:HB1	1.75	0.67
1:Ab:171:ALA:HA	1:Ab:174:VAL:HG23	1.76	0.67
5:Af:67:MET:HB2	5:Af:68:PRO:HD2	1.77	0.67
8:Ai:16:ARG:O	8:Ai:63:ILE:HG23	1.94	0.67
9:Aj:8:LEU:HD23	9:Aj:96:ILE:HG22	1.75	0.67
12:Am:59:TYR:O	12:Am:63:THR:OG1	2.08	0.67
21:Ay:38:ARG:HD3	21:Ay:51:TYR:OH	1.94	0.67
22:Aa:505:G:H2'	22:Aa:506:G:H8	1.58	0.67
26:AC:178:LYS:HB2	26:AC:181:PHE:CD1	2.29	0.67
31:AH:41:MET:CE	31:AH:42:ARG:H	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:101:LEU:HB3	32:AI:109:ILE:HD11	1.77	0.67
40:AT:23:ARG:HG2	40:AT:120:ARG:HH12	1.60	0.67
45:AY:2:ARG:N	45:AY:4:LYS:HE2	2.10	0.67
46:AZ:170:THR:HG21	57:AA:874:G:O2'	1.95	0.67
9:Bj:60:ARG:NH2	22:Ba:1367:C:H5'	2.09	0.67
22:Ba:501:C:H2'	22:Ba:502:G:C8	2.28	0.67
22:Ba:1277:C:C2'	22:Ba:1278:U:H5'	2.24	0.67
27:BD:30:GLU:HG3	27:BD:63:ARG:CZ	2.24	0.67
28:BE:69:LYS:C	28:BE:71:GLY:H	2.03	0.67
30:BG:137:GLU:OE2	30:BG:152:LEU:HD13	1.94	0.67
30:BG:161:THR:HG22	30:BG:163:ALA:N	2.05	0.67
31:BH:136:ILE:HD12	31:BH:136:ILE:N	2.09	0.67
57:BA:1434:A:H61	57:BA:1558:A:N6	1.93	0.67
57:BA:2122:U:H2'	57:BA:2123:G:H8	1.59	0.67
22:Aa:16:A:O2'	22:Aa:17:U:H5'	1.95	0.67
22:Aa:1218:C:H2'	22:Aa:1219:U:C6	2.30	0.67
24:Av:50:U:H2'	24:Av:51:C:H6	1.60	0.67
29:AF:132:VAL:HG22	29:AF:133:ASN:N	2.09	0.67
31:AH:136:ILE:HD12	31:AH:136:ILE:N	2.08	0.67
33:AJ:118:THR:C	33:AJ:120:LYS:H	2.01	0.67
36:AP:46:LYS:HE2	57:AA:195:A:OP1	1.93	0.67
36:AP:71:VAL:CG1	36:AP:72:PRO:HD3	2.25	0.67
57:AA:1542:A:N7	57:AA:1544:A:H5"	2.10	0.67
58:AB:7:G:H3'	58:AB:8:U:C5'	2.16	0.67
2:Bc:154:SER:HB2	22:Ba:1057:G:C5'	2.21	0.67
12:Bm:91:ARG:HD3	18:Bs:81:ARG:HH21	1.59	0.67
19:Bt:48:LYS:O	19:Bt:52:ALA:HB2	1.95	0.67
22:Ba:56:U:H2'	22:Ba:57:G:C8	2.29	0.67
28:BE:111:ARG:HG3	38:BR:2:ARG:CZ	2.25	0.67
29:BF:24:LEU:CB	29:BF:25:PRO:HD2	2.21	0.67
29:BF:34:TRP:CZ2	36:BP:12:ALA:HB2	2.29	0.67
30:BG:173:LEU:O	30:BG:178:PHE:HD1	1.78	0.67
31:BH:7:LEU:CD2	31:BH:69:ARG:HD2	2.24	0.67
36:BP:85:LEU:HB3	36:BP:114:ILE:HD11	1.76	0.67
42:BV:18:LEU:HD13	42:BV:19:LYS:N	2.09	0.67
57:BA:271(E):U:H2'	57:BA:271(F):C:C6	2.30	0.67
57:BA:492:A:H2'	57:BA:493:G:O4'	1.94	0.67
57:BA:2126:A:H61	57:BA:2163:C:H4'	1.58	0.67
57:BA:2472:G:H3'	57:BA:2475:C:N4	2.10	0.67
7:Ah:30:ARG:O	7:Ah:34:GLU:HG2	1.92	0.67
11:Al:28:LYS:HE3	11:Al:33:ARG:HH22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:An:5:ALA:HB2	22:Aa:1216:G:H5"	1.76	0.67
19:At:103:GLY:N	22:Aa:192:U:H4'	2.09	0.67
21:Ay:44:LEU:HD13	21:Ay:44:LEU:H	1.60	0.67
29:AF:165:ARG:HH11	29:AF:165:ARG:CB	2.07	0.67
30:AG:29:TRP:O	58:AB:57:A:H1'	1.93	0.67
32:AI:23:PRO:HB3	32:AI:27:ARG:NH2	2.09	0.67
34:AN:68:GLU:H	34:AN:88:GLU:HG3	1.58	0.67
39:AS:59:LYS:HG2	39:AS:60:GLY:N	2.09	0.67
4:Be:72:GLN:C	4:Be:74:GLY:H	2.02	0.67
9:Bj:55:LYS:HE2	22:Ba:973:G:H1'	1.76	0.67
11:Bl:25:PRO:O	11:Bl:27:LEU:HD13	1.95	0.67
17:Br:56:THR:HB	17:Br:58:LEU:HD13	1.76	0.67
20:Bu:12:LYS:HB3	20:Bu:17:THR:O	1.95	0.67
22:Ba:266:G:H5"	22:Ba:268:C:H41	1.60	0.67
22:Ba:530:G:H2'	22:Ba:530:G:N3	2.08	0.67
22:Ba:1116:C:H2'	22:Ba:1117:G:C5'	2.21	0.67
29:BF:132:VAL:HG22	29:BF:133:ASN:N	2.09	0.67
32:BI:115:ALA:CB	32:BI:128:LEU:HB3	2.17	0.67
34:BN:68:GLU:H	34:BN:88:GLU:HG3	1.59	0.67
39:BS:59:LYS:HG2	39:BS:60:GLY:N	2.10	0.67
41:BU:88:ILE:C	41:BU:90:VAL:H	2.03	0.67
45:BY:81:LYS:HD3	45:BY:97:ARG:HB3	1.77	0.67
46:BZ:53:ILE:O	46:BZ:53:ILE:HD12	1.94	0.67
57:BA:27:G:N2	57:BA:512:G:H2'	2.09	0.67
57:BA:672:C:C2'	57:BA:673:C:H5"	2.24	0.67
7:Ah:53:VAL:HG12	7:Ah:54:ASP:OD2	1.95	0.67
10:Ak:21:ILE:N	10:Ak:21:ILE:HD12	2.09	0.67
12:Am:63:THR:CG2	12:Am:64:TRP:N	2.52	0.67
13:An:27:CYS:C	13:An:29:ARG:H	2.02	0.67
22:Aa:1163:C:H2'	22:Aa:1164:G:H8	1.59	0.67
25:Aw:69:C:H2'	25:Aw:70:G:C8	2.29	0.67
27:AD:259:THR:HG23	57:AA:1803:A:H4'	1.77	0.67
36:AP:33:ARG:NH1	57:AA:587:C:H3'	2.08	0.67
45:AY:31:LEU:HD22	45:AY:31:LEU:N	2.10	0.67
48:A1:80:LEU:O	48:A1:82:LEU:HD22	1.93	0.67
52:A5:50:GLY:O	52:A5:51:TYR:HB2	1.95	0.67
52:A5:54:GLY:C	52:A5:55:ARG:NE	2.52	0.67
57:AA:301:G:H1'	57:AA:302:C:C6	2.30	0.67
57:AA:860:U:H5	57:AA:917:A:N7	1.91	0.67
57:AA:991:C:H5'	57:AA:991:C:H6	1.59	0.67
57:AA:2199:A:H3'	57:AA:2200:C:H6	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:12:GLU:C	1:Bb:14:GLY:H	2.02	0.67
11:Bl:53:ARG:NH2	22:Ba:522:C:H41	1.93	0.67
12:Bm:57:ARG:HH12	51:B4:34:GLU:HA	1.58	0.67
22:Ba:1026:G:H2'	22:Ba:1026:G:N3	2.10	0.67
27:BD:231:HIS:ND1	27:BD:232:PRO:HD2	2.08	0.67
40:BT:106:SER:O	40:BT:107:ASP:CG	2.38	0.67
4:Ae:10:MET:HA	4:Ae:32:VAL:HG22	1.75	0.67
4:Ae:19:MET:O	4:Ae:20:GLN:HB2	1.93	0.67
5:Af:42:GLU:O	5:Af:44:GLY:N	2.27	0.67
8:Ai:18:PHE:HD1	8:Ai:62:TYR:HD2	1.43	0.67
18:As:61:TYR:HE2	18:As:63:THR:HB	1.59	0.67
19:At:57:ARG:NH1	19:At:102:GLY:HA3	2.10	0.67
22:Aa:56:U:H2'	22:Aa:57:G:C8	2.28	0.67
22:Aa:105:G:H2'	22:Aa:106:C:C6	2.29	0.67
22:Aa:189(K):U:H2'	22:Aa:189(L):G:C8	2.30	0.67
28:AE:13:ARG:HD2	28:AE:20:ALA:HB1	1.77	0.67
29:AF:63:LYS:NZ	29:AF:67:GLN:HB2	2.10	0.67
51:A4:14:ILE:HG23	51:A4:31:ILE:CG2	2.24	0.67
4:Be:69:VAL:O	4:Be:71:LEU:N	2.28	0.67
10:Bk:84:VAL:HG22	10:Bk:110:ASP:HA	1.76	0.67
19:Bt:12:ALA:O	19:Bt:15:ARG:HB2	1.95	0.67
38:BR:10:LEU:CD2	38:BR:17:ARG:HD3	2.24	0.67
40:BT:30:VAL:HA	40:BT:44:ASP:HA	1.77	0.67
46:BZ:146:ILE:HG22	46:BZ:174:VAL:HG12	1.76	0.67
53:B6:5:VAL:HG12	53:B6:8:LYS:CB	2.25	0.67
57:BA:836:G:H2'	57:BA:837:C:C6	2.30	0.67
57:BA:2359:C:C2'	57:BA:2360:A:H5'	2.23	0.67
11:Al:119:LYS:O	11:Al:120:TYR:HB2	1.93	0.67
22:Aa:501:C:H2'	22:Aa:502:G:C8	2.30	0.67
22:Aa:1228:C:H2'	22:Aa:1229:A:H8	1.60	0.67
22:Aa:1277:C:C2'	22:Aa:1278:U:H5'	2.23	0.67
22:Aa:1326:C:H2'	22:Aa:1327:C:C6	2.29	0.67
27:AD:28:GLU:H	27:AD:29:PRO:CD	2.05	0.67
28:AE:69:LYS:NZ	28:AE:90:THR:H	1.93	0.67
28:AE:77:ILE:CG2	28:AE:78:LEU:H	2.01	0.67
30:AG:31:VAL:O	30:AG:33:ARG:HD3	1.95	0.67
36:AP:39:LYS:HG3	57:AA:807:U:OP2	1.95	0.67
39:AS:51:ALA:HB3	39:AS:73:LEU:HB2	1.75	0.67
40:AT:35:LYS:NZ	40:AT:41:ARG:HH21	1.92	0.67
45:AY:42:VAL:HG12	45:AY:65:ALA:CB	2.24	0.67
45:AY:81:LYS:HD3	45:AY:97:ARG:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:A1:20:ARG:O	48:A1:21:ARG:HG3	1.95	0.67
57:AA:394:A:O2'	57:AA:395:U:H5'	1.93	0.67
57:AA:2023:G:H5'	57:AA:2617:C:H4'	1.77	0.67
57:AA:2287:A:N6	57:AA:2344:U:H3	1.91	0.67
1:Bb:59:GLU:HG3	1:Bb:225:ALA:HB1	1.75	0.67
5:Bf:42:GLU:C	5:Bf:44:GLY:H	2.03	0.67
14:Bo:56:LEU:O	14:Bo:60:VAL:HG23	1.94	0.67
22:Ba:627:G:O2'	22:Ba:628:G:H5'	1.94	0.67
24:Bv:17:C:H2'	24:Bv:17(A):U:H5	1.60	0.67
28:BE:27:LEU:HD22	40:BT:1:MET:HE1	1.77	0.67
31:BH:107:VAL:O	31:BH:107:VAL:HG23	1.94	0.67
32:BI:109:ILE:HD12	32:BI:109:ILE:N	2.10	0.67
33:BJ:22:GLY:O	33:BJ:119:ALA:HA	1.95	0.67
34:BN:1:MET:HG2	34:BN:2:LYS:N	2.10	0.67
40:BT:23:ARG:O	40:BT:25:GLY:N	2.28	0.67
48:B1:3:LYS:HG3	48:B1:4:VAL:H	1.60	0.67
53:B6:5:VAL:HG22	53:B6:6:ARG:N	2.10	0.67
56:B9:27:CYS:SG	56:B9:28:GLU:N	2.67	0.67
57:BA:89:G:H3'	57:BA:90:U:C5'	2.23	0.67
57:BA:923:C:H2'	57:BA:924:C:H6	1.60	0.67
57:BA:2315:G:H2'	57:BA:2316:C:C6	2.30	0.67
57:BA:2833:G:H3'	57:BA:2834:G:H5"	1.77	0.67
2:Ac:154:SER:HB2	22:Aa:1057:G:C5'	2.19	0.67
22:Aa:1137:C:H4'	22:Aa:1138:G:N2	2.10	0.67
29:AF:3:GLU:C	29:AF:24:LEU:HG	2.20	0.67
30:AG:39:ILE:HD11	30:AG:92:VAL:CG1	2.25	0.67
30:AG:111:LEU:HD22	30:AG:120:LEU:CD2	2.21	0.67
34:AN:31:ALA:HA	34:AN:34:LEU:HD23	1.76	0.67
34:AN:48:MET:H	34:AN:48:MET:HE3	1.60	0.67
37:AQ:132:VAL:CG1	46:AZ:81:ARG:HH21	2.03	0.67
39:AS:67:ARG:HH11	39:AS:67:ARG:CB	2.06	0.67
40:AT:70:VAL:HG12	40:AT:71:GLY:H	1.58	0.67
52:A5:54:GLY:CA	52:A5:55:ARG:HE	2.08	0.67
57:AA:443:A:H1'	57:AA:1201:C:O4'	1.95	0.67
57:AA:2645:G:C3'	57:AA:2646:C:H5'	2.23	0.67
57:AA:2864:G:H2'	57:AA:2865:U:H6	1.59	0.67
9:Bj:8:LEU:HD23	9:Bj:96:ILE:HG22	1.76	0.67
11:Bl:89:ARG:HA	11:Bl:97:ARG:HA	1.77	0.67
11:Bl:114:LYS:HD3	22:Ba:538:G:O3'	1.93	0.67
11:Bl:119:LYS:O	11:Bl:120:TYR:HB2	1.94	0.67
22:Ba:105:G:H2'	22:Ba:106:C:C6	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:723:U:H5”	22:Ba:724:G:OP2	1.94	0.67
28:BE:1:MET:N	28:BE:1:MET:HE2	2.09	0.67
34:BN:35:ARG:C	34:BN:37:LYS:H	2.03	0.67
36:BP:50:ARG:HD3	55:B8:7:HIS:CD2	2.30	0.67
38:BR:9:LYS:O	38:BR:10:LEU:HD23	1.95	0.67
49:B2:21:LEU:O	49:B2:24:LEU:HB3	1.95	0.67
57:BA:330:A:O2’	57:BA:331:A:H8	1.78	0.67
57:BA:654(S):G:H3’	57:BA:654(T):C:C5’	2.25	0.67
57:BA:953:A:O2’	57:BA:954:G:H5’	1.95	0.67
3:Ad:49:ARG:HA	3:Ad:49:ARG:NE	2.09	0.67
3:Ad:90:GLY:CA	3:Ad:204:ILE:HD11	2.24	0.67
6:Ag:7:ALA:CB	22:Aa:1377:A:H2’	2.22	0.67
14:Ao:78:TYR:O	14:Ao:82:ILE:HG22	1.95	0.67
22:Aa:559:A:H4’	22:Aa:560:U:C5’	2.22	0.67
22:Aa:591:U:H2’	22:Aa:592:G:H8	1.60	0.67
30:AG:68:PRO:HA	30:AG:92:VAL:HB	1.76	0.67
32:AI:123:LEU:HD11	32:AI:144:VAL:CG2	2.25	0.67
34:AN:47:ALA:HB2	34:AN:112:LEU:HD11	1.75	0.67
34:AN:120:LEU:CD2	34:AN:122:VAL:HG23	2.25	0.67
46:AZ:31:ARG:HG2	58:AB:106:G:C5’	2.25	0.67
46:AZ:134:PRO:HB2	46:AZ:137:ILE:HD11	1.76	0.67
53:A6:5:VAL:CG1	53:A6:7:ILE:HG22	2.25	0.67
57:AA:438:G:O2’	57:AA:440:G:H5’	1.94	0.67
1:Bb:171:ALA:HA	1:Bb:174:VAL:HG23	1.75	0.67
6:Bg:15:ASP:HB3	6:Bg:19:GLY:N	2.10	0.67
9:Bj:24:VAL:HG21	9:Bj:37:PRO:HG3	1.77	0.67
14:Bo:65:ARG:HG2	14:Bo:65:ARG:HH11	1.60	0.67
22:Ba:1472:U:O2’	22:Ba:1473:A:H5’	1.94	0.67
26:BC:182:PRO:HB2	26:BC:185:LYS:HD2	1.77	0.67
28:BE:143:ASN:O	57:BA:2052:G:H4’	1.94	0.67
29:BF:53:THR:HG23	29:BF:56:GLU:OE1	1.95	0.67
31:BH:149:ARG:HA	31:BH:162:ILE:HG13	1.76	0.67
32:BI:123:LEU:HD11	32:BI:144:VAL:CG2	2.24	0.67
39:BS:30:ARG:NH1	39:BS:35:ILE:HB	2.08	0.67
43:BW:29:LEU:O	43:BW:33:ARG:HG3	1.95	0.67
47:B0:11:ARG:HH11	47:B0:11:ARG:CB	2.07	0.67
57:BA:141:A:H8	57:BA:1408:C:O2’	1.77	0.67
57:BA:176:G:O2’	57:BA:177:G:H5’	1.94	0.67
57:BA:2584:U:C2’	57:BA:2585:U:H5’	2.25	0.67
1:Ab:98:LEU:HB2	1:Ab:101:MET:CE	2.24	0.66
5:Af:86:ARG:O	5:Af:87:ARG:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:38:ILE:HG12	9:Aj:71:LEU:O	1.95	0.66
9:Aj:55:LYS:HE2	22:Aa:973:G:H1'	1.76	0.66
22:Aa:659:U:O2'	22:Aa:660:G:H5'	1.94	0.66
22:Aa:1430:C:H2'	22:Aa:1431:C:H6	1.60	0.66
24:Av:41:C:O2'	24:Av:42:G:H5'	1.96	0.66
24:Av:50:U:H2'	24:Av:51:C:C6	2.30	0.66
25:Aw:71:C:H2'	25:Aw:72:A:C8	2.30	0.66
27:AD:133:LEU:HB3	27:AD:173:VAL:HG11	1.77	0.66
29:AF:21:ALA:C	29:AF:23:ASP:H	2.01	0.66
30:AG:51:ARG:HA	30:AG:51:ARG:HE	1.57	0.66
37:AQ:27:VAL:HG13	37:AQ:105:GLU:OE2	1.95	0.66
40:AT:54:ARG:HH11	40:AT:54:ARG:HG2	1.59	0.66
55:A8:32:LEU:HD12	57:AA:2391:G:OP1	1.94	0.66
57:AA:102:G:H4'	57:AA:102:G:OP1	1.94	0.66
57:AA:1697:G:H3'	57:AA:1698:A:C5'	2.25	0.66
57:AA:1947:C:C2'	57:AA:1948:G:H5"	2.25	0.66
1:Bb:82:ARG:HB3	1:Bb:83:MET:HE2	1.77	0.66
8:Bi:9:ARG:HG2	8:Bi:14:VAL:HG13	1.76	0.66
25:Bw:70:G:O2'	25:Bw:71:C:H5'	1.94	0.66
29:BF:176:LEU:HD12	29:BF:177:ALA:N	2.10	0.66
30:BG:51:ARG:HD3	30:BG:53:LEU:HD23	1.77	0.66
31:BH:41:MET:HE2	31:BH:43:VAL:CG1	2.24	0.66
32:BI:129:THR:HG23	32:BI:136:VAL:O	1.95	0.66
35:BO:98:VAL:HG13	35:BO:117:LEU:HB3	1.77	0.66
40:BT:26:ASP:C	40:BT:26:ASP:OD2	2.39	0.66
41:BU:92:ARG:NE	57:BA:996:A:H4'	2.10	0.66
55:B8:14:VAL:HG23	55:B8:24:ALA:HB2	1.77	0.66
57:BA:633:A:H2'	57:BA:634:C:H5'	1.77	0.66
57:BA:1278:A:O2'	57:BA:1279:G:H5'	1.95	0.66
57:BA:2801(A):A:O4'	57:BA:2802:G:H2'	1.95	0.66
11:Al:25:PRO:O	11:Al:27:LEU:HD13	1.95	0.66
12:Am:49:THR:O	12:Am:53:VAL:HG23	1.94	0.66
16:Aq:67:LYS:O	16:Aq:69:LYS:N	2.27	0.66
27:AD:244:ARG:HB2	57:AA:1902:C:O2'	1.95	0.66
28:AE:46:ALA:HB2	28:AE:82:ARG:HA	1.75	0.66
28:AE:59:VAL:HG13	28:AE:60:ASN:H	1.60	0.66
30:AG:113:ARG:CG	30:AG:113:ARG:NH2	2.42	0.66
32:AI:8:PRO:CB	32:AI:14:ASP:H	2.08	0.66
34:AN:30:ILE:O	34:AN:34:LEU:HD22	1.95	0.66
36:AP:107:LYS:C	36:AP:109:GLY:H	2.03	0.66
46:AZ:182:LYS:O	46:AZ:183:LEU:HD23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A0:14:ARG:HB2	47:A0:14:ARG:NH1	1.99	0.66
53:A6:52:VAL:HG22	53:A6:53:LYS:H	1.58	0.66
56:A9:22:ARG:HH12	57:AA:2741:A:H5"	1.60	0.66
57:AA:492:A:H2'	57:AA:493:G:O4'	1.96	0.66
2:Bc:107:GLN:CD	2:Bc:107:GLN:H	2.02	0.66
3:Bd:79:PHE:HD2	3:Bd:79:PHE:C	2.03	0.66
5:Bf:42:GLU:O	5:Bf:44:GLY:N	2.28	0.66
7:Bh:63:LEU:HB2	7:Bh:65:TYR:CE1	2.30	0.66
9:Bj:6:ILE:HD11	9:Bj:72:VAL:CB	2.24	0.66
30:BG:91:ARG:HG3	57:BA:2313:C:H4'	1.77	0.66
30:BG:164:GLU:N	30:BG:164:GLU:OE1	2.28	0.66
34:BN:120:LEU:HD22	34:BN:122:VAL:HG23	1.75	0.66
41:BU:47:TYR:HA	41:BU:50:ARG:HH22	1.60	0.66
44:BX:12:VAL:HG21	44:BX:27:THR:HG23	1.77	0.66
44:BX:60:ARG:HH21	54:B7:47:ARG:HD2	1.60	0.66
45:BY:4:LYS:HD2	45:BY:32:PRO:CG	2.24	0.66
45:BY:4:LYS:HD2	45:BY:32:PRO:HG3	1.77	0.66
53:B6:15:GLU:CD	53:B6:44:ARG:HH22	2.04	0.66
57:BA:768:G:O2'	57:BA:1379:A:N6	2.27	0.66
3:Ad:112:VAL:HG11	22:Aa:408:A:H4'	1.76	0.66
3:Ad:112:VAL:HG12	3:Ad:116:GLN:OE1	1.95	0.66
8:Ai:48:GLU:N	8:Ai:49:PRO:HD2	2.10	0.66
22:Aa:1010:G:N2	22:Aa:1020:U:H1'	2.11	0.66
26:AC:51:ASP:O	26:AC:54:ARG:HB2	1.95	0.66
28:AE:101:ARG:HB3	28:AE:169:ASN:HD22	1.61	0.66
45:AY:4:LYS:HD2	45:AY:32:PRO:HG3	1.77	0.66
45:AY:8:LYS:HE2	45:AY:72:VAL:HG23	1.78	0.66
46:AZ:71:VAL:HA	46:AZ:87:ASP:O	1.96	0.66
48:A1:29:GLY:O	48:A1:31:GLY:N	2.29	0.66
51:A4:46:GLN:NE2	51:A4:47:GLN:H	1.93	0.66
55:A8:48:PHE:O	55:A8:49:VAL:HG13	1.95	0.66
57:AA:300:A:H2'	57:AA:334:C:H1'	1.77	0.66
57:AA:768:G:O2'	57:AA:1379:A:N6	2.27	0.66
6:Bg:54:THR:OG1	6:Bg:56:GLN:HG2	1.95	0.66
7:Bh:89:PRO:HA	7:Bh:92:ARG:HH11	1.59	0.66
8:Bi:27:THR:HG23	8:Bi:31:GLN:O	1.94	0.66
13:Bn:5:ALA:HB2	22:Ba:1216:G:H5"	1.76	0.66
22:Ba:189(K):U:H2'	22:Ba:189(L):G:C8	2.30	0.66
22:Ba:859:A:H2'	22:Ba:860:A:O4'	1.95	0.66
22:Ba:1293:G:O2'	22:Ba:1294:G:H8	1.78	0.66
27:BD:24:ILE:CG1	27:BD:25:THR:H	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:28:GLU:H	27:BD:29:PRO:CD	2.07	0.66
28:BE:111:ARG:HG3	38:BR:2:ARG:NH2	2.10	0.66
30:BG:172:LEU:O	30:BG:172:LEU:HD23	1.95	0.66
32:BI:86:THR:O	32:BI:87:LYS:HB2	1.95	0.66
35:BO:26:LYS:O	35:BO:27:GLY:O	2.12	0.66
38:BR:3:HIS:HB2	57:BA:1654:A:OP2	1.96	0.66
39:BS:13:ARG:CG	39:BS:14:VAL:H	2.08	0.66
40:BT:132:LYS:C	40:BT:134:GLU:H	2.04	0.66
46:BZ:57:ILE:HG22	46:BZ:58:VAL:N	2.00	0.66
53:B6:11:LEU:HA	53:B6:54:ILE:OXT	1.94	0.66
57:BA:672:C:H2'	57:BA:673:C:C5'	2.25	0.66
57:BA:2106:G:H2'	57:BA:2107:C:O4'	1.96	0.66
57:BA:2120:G:H2'	57:BA:2121:G:C8	2.28	0.66
57:BA:2312:U:H2'	57:BA:2313:C:H5"	1.77	0.66
57:BA:2864:G:H2'	57:BA:2865:U:C6	2.29	0.66
3:Ad:120:LEU:HB3	3:Ad:126:ILE:HD11	1.76	0.66
4:Ae:12:LEU:CD1	4:Ae:31:LEU:HB2	2.25	0.66
4:Ae:36:ASP:O	4:Ae:37:ARG:HG3	1.95	0.66
7:Ah:11:THR:HG23	7:Ah:14:ARG:NH1	2.10	0.66
12:Am:23:TYR:CE1	12:Am:71:ARG:HD3	2.31	0.66
24:Av:23:C:H2'	24:Av:24:U:C6	2.31	0.66
25:Aw:41:C:H2'	25:Aw:42:G:C8	2.31	0.66
27:AD:231:HIS:ND1	27:AD:232:PRO:HD2	2.10	0.66
28:AE:51:PHE:CD1	28:AE:52:LEU:N	2.63	0.66
29:AF:178:PRO:HG2	29:AF:179:GLU:OE2	1.95	0.66
34:AN:15:LEU:HB2	34:AN:134:ARG:HB2	1.78	0.66
41:AU:70:ARG:HA	41:AU:74:LEU:O	1.93	0.66
57:AA:271(E):U:H2'	57:AA:271(F):C:C6	2.30	0.66
57:AA:654(S):G:H3'	57:AA:654(T):C:C5'	2.26	0.66
57:AA:836:G:H2'	57:AA:837:C:C6	2.30	0.66
57:AA:2734:A:H5'	57:AA:2735:G:OP2	1.94	0.66
3:Bd:14:ARG:HA	3:Bd:39:PRO:HG3	1.76	0.66
4:Be:12:LEU:CD1	4:Be:31:LEU:HB2	2.26	0.66
4:Be:21:ALA:HB2	22:Ba:923:A:OP1	1.95	0.66
8:Bi:19:LEU:HD22	8:Bi:59:PHE:HB3	1.77	0.66
32:BI:58:LEU:O	32:BI:58:LEU:HD23	1.95	0.66
36:BP:48:PRO:HG2	36:BP:49:ARG:N	2.06	0.66
38:BR:2:ARG:HD3	38:BR:5:LYS:CE	2.24	0.66
39:BS:90:GLY:C	39:BS:92:TYR:H	2.02	0.66
42:BV:39:LEU:HD12	42:BV:47:VAL:HG11	1.76	0.66
57:BA:1720:U:H2'	57:BA:1721:G:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:24:TRP:CZ3	1:Ab:26:PRO:HA	2.30	0.66
3:Ad:28:SER:HB3	3:Ad:29:PRO:HD2	1.78	0.66
3:Ad:126:ILE:HD12	3:Ad:126:ILE:N	2.11	0.66
5:Af:42:GLU:C	5:Af:44:GLY:H	2.02	0.66
5:Af:60:PHE:O	5:Af:61:LEU:HD12	1.95	0.66
9:Aj:61:GLU:HG3	13:An:58:LYS:HE2	1.78	0.66
12:Am:68:GLY:C	12:Am:71:ARG:CB	2.69	0.66
12:Am:112:GLY:O	12:Am:113:PRO:C	2.36	0.66
22:Aa:685:G:O2'	22:Aa:686:U:H5'	1.95	0.66
22:Aa:1485:U:O2'	22:Aa:1486:G:H5'	1.96	0.66
27:AD:210:GLY:O	27:AD:211:ARG:HB3	1.94	0.66
31:AH:124:GLU:HB2	31:AH:132:ARG:CG	2.25	0.66
32:AI:110:ASP:CB	32:AI:113:ARG:HB2	2.25	0.66
48:A1:40:ARG:HD3	48:A1:40:ARG:C	2.21	0.66
55:A8:6:THR:CG2	55:A8:63:PRO:HD3	2.25	0.66
57:AA:579:G:H2'	57:AA:580:C:C6	2.30	0.66
57:AA:768:G:H2'	57:AA:769:G:H8	1.59	0.66
57:AA:953:A:O2'	57:AA:954:G:H5'	1.95	0.66
57:AA:1485:G:H1'	57:AA:1505:C:H42	1.61	0.66
5:Bf:28:ARG:HG3	5:Bf:28:ARG:HH11	1.61	0.66
7:Bh:61:VAL:HG12	7:Bh:63:LEU:HD13	1.78	0.66
9:Bj:32:ALA:H	9:Bj:78:ASN:ND2	1.93	0.66
12:Bm:17:VAL:HG21	22:Ba:1302:U:C5	2.31	0.66
14:Bo:82:ILE:CG2	14:Bo:83:GLU:H	2.08	0.66
22:Ba:1003:G:H2'	22:Ba:1004:A:C4'	2.20	0.66
22:Ba:1184:G:H2'	22:Ba:1185:G:C8	2.31	0.66
24:Bv:53:G:O2'	24:Bv:54:5MU:H5"	1.96	0.66
29:BF:25:PRO:HB3	29:BF:119:ARG:HD3	1.77	0.66
32:BI:77:LEU:HD22	32:BI:140:LEU:HA	1.76	0.66
32:BI:120:ILE:HG22	32:BI:121:LYS:N	2.09	0.66
34:BN:67:LEU:CD2	34:BN:87:LEU:HD13	2.26	0.66
45:BY:13:VAL:HB	45:BY:28:LYS:HD3	1.76	0.66
45:BY:57:GLN:HG2	45:BY:58:GLY:N	2.08	0.66
46:BZ:54:HIS:HB3	46:BZ:101:PRO:HD3	1.77	0.66
47:B0:50:ASN:C	47:B0:62:LEU:HD12	2.20	0.66
53:B6:5:VAL:CG1	53:B6:7:ILE:HG22	2.25	0.66
57:BA:2134:A:C2	57:BA:2159:G:H1'	2.30	0.66
57:BA:2179:C:OP1	57:BA:2179:C:H4'	1.95	0.66
58:BB:40:U:C2	58:BB:43:C:H5"	2.30	0.66
3:Ad:59:ARG:HA	3:Ad:59:ARG:NE	2.03	0.66
12:Am:111:LYS:O	12:Am:112:GLY:C	2.37	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:As:15:LEU:O	18:As:19:VAL:HG23	1.95	0.66
21:Ay:84:SER:C	21:Ay:86:VAL:H	2.02	0.66
34:AN:67:LEU:HD23	34:AN:87:LEU:HD13	1.78	0.66
36:AP:85:LEU:H	36:AP:85:LEU:CD2	2.09	0.66
39:AS:95:HIS:CG	39:AS:96:GLY:N	2.62	0.66
57:AA:672:C:O2'	57:AA:673:C:H5"	1.94	0.66
57:AA:1657:C:H2'	57:AA:1658:C:C6	2.31	0.66
57:AA:2584:U:C2'	57:AA:2585:U:H5'	2.25	0.66
1:Bb:111:ARG:NH2	1:Bb:114:ARG:HG2	2.11	0.66
5:Bf:26:ILE:O	5:Bf:30:LEU:HG	1.95	0.66
5:Bf:86:ARG:O	5:Bf:87:ARG:HG2	1.96	0.66
9:Bj:55:LYS:HZ2	22:Ba:963:G:N2	1.94	0.66
18:Bs:61:TYR:HE2	18:Bs:63:THR:HB	1.60	0.66
30:BG:43:LEU:HB2	30:BG:88:ILE:HG21	1.76	0.66
31:BH:44:VAL:O	31:BH:46:GLU:N	2.28	0.66
31:BH:70:THR:HG22	31:BH:74:ASN:ND2	2.11	0.66
33:BJ:67:GLY:HA2	33:BJ:72:ASP:HA	1.78	0.66
36:BP:39:LYS:HG3	57:BA:807:U:OP2	1.95	0.66
49:B2:47:ASN:HD22	57:BA:94(A):G:N2	1.88	0.66
52:B5:54:GLY:N	52:B5:55:ARG:HE	1.93	0.66
3:Ad:8:VAL:O	3:Ad:10:ARG:N	2.27	0.66
17:Ar:56:THR:HB	17:Ar:58:LEU:HD13	1.78	0.66
27:AD:35:LYS:HB3	27:AD:35:LYS:NZ	2.07	0.66
27:AD:142:VAL:HG23	27:AD:192:THR:C	2.19	0.66
30:AG:70:VAL:HG22	30:AG:90:LEU:CD1	2.25	0.66
32:AI:87:LYS:HE3	32:AI:121:LYS:HG3	1.77	0.66
39:AS:59:LYS:HG2	39:AS:60:GLY:H	1.59	0.66
44:AX:29:TRP:CZ3	44:AX:78:LYS:HB3	2.30	0.66
49:A2:64:LEU:HD22	49:A2:68:ARG:HH11	1.61	0.66
57:AA:581:C:H2'	57:AA:582:G:C8	2.31	0.66
57:AA:1188:U:O2'	57:AA:1189:A:H5'	1.96	0.66
57:AA:1720:U:H2'	57:AA:1721:G:O4'	1.94	0.66
57:AA:2864:G:H2'	57:AA:2865:U:C6	2.30	0.66
1:Bb:185:ILE:HG22	1:Bb:199:TYR:HB2	1.78	0.66
8:Bi:18:PHE:HD1	8:Bi:62:TYR:HD2	1.44	0.66
13:Bn:44:LEU:HD12	13:Bn:44:LEU:O	1.95	0.66
14:Bo:82:ILE:C	14:Bo:82:ILE:HD13	2.21	0.66
22:Ba:833:U:H2'	22:Ba:834:C:C6	2.31	0.66
22:Ba:1497:G:C2'	22:Ba:1498:U:H5'	2.24	0.66
31:BH:7:LEU:HD23	31:BH:69:ARG:HG3	1.76	0.66
31:BH:46:GLU:O	31:BH:49:VAL:O	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:74:ASN:C	32:BI:76:THR:H	2.03	0.66
36:BP:80:TYR:CZ	36:BP:111:ARG:HD3	2.30	0.66
38:BR:98:LEU:HB2	38:BR:113:LEU:HD21	1.77	0.66
40:BT:5:ALA:HB2	57:BA:2875:C:C4'	2.21	0.66
53:B6:41:PRO:C	53:B6:43:CYS:H	2.04	0.66
12:Am:17:VAL:HG21	22:Aa:1302:U:C5	2.31	0.66
15:Ap:25:ARG:NH1	22:Aa:134:A:H61	1.94	0.66
15:Ap:53:VAL:HG12	15:Ap:79:VAL:HG22	1.78	0.66
22:Aa:818:G:C2'	22:Aa:819:A:H5"	2.26	0.66
22:Aa:1026:G:N3	22:Aa:1026:G:H2'	2.11	0.66
22:Aa:1051:C:H2'	22:Aa:1052:U:H6	1.59	0.66
22:Aa:1514:C:H2'	22:Aa:1515:C:C6	2.31	0.66
28:AE:9:VAL:HG22	28:AE:25:VAL:HB	1.78	0.66
29:AF:25:PRO:HB3	29:AF:119:ARG:HD3	1.76	0.66
30:AG:67:LYS:HZ2	58:AB:42:C:H4'	1.60	0.66
30:AG:71:THR:HG23	57:AA:2312:U:H4'	1.77	0.66
33:AJ:124:ALA:H	33:AJ:127:GLU:CB	2.09	0.66
36:AP:16:ARG:HG2	57:AA:1245:G:OP1	1.95	0.66
40:AT:13:ARG:HA	40:AT:13:ARG:NH1	2.11	0.66
40:AT:23:ARG:O	40:AT:25:GLY:N	2.29	0.66
40:AT:83:ILE:HG13	40:AT:84:GLN:N	2.11	0.66
52:A5:51:TYR:HH	52:A5:52:TYR:HD2	0.78	0.66
57:AA:621:A:H2'	57:AA:622:G:C5'	2.24	0.66
57:AA:1278:A:O2'	57:AA:1279:G:H5'	1.95	0.66
57:AA:2359:C:H2'	57:AA:2360:A:H8	1.61	0.66
57:AA:2392:A:H2	57:AA:2424:C:H42	1.41	0.66
57:AA:2795:G:H2'	57:AA:2795:G:N3	2.11	0.66
2:Bc:107:GLN:O	2:Bc:108:ASN:HB2	1.94	0.66
3:Bd:49:ARG:HA	3:Bd:49:ARG:NE	2.08	0.66
29:BF:183:VAL:O	29:BF:187:VAL:HG23	1.96	0.66
32:BI:113:ARG:O	32:BI:114:LEU:HD23	1.95	0.66
34:BN:120:LEU:CD2	34:BN:122:VAL:HG23	2.25	0.66
45:BY:87:LYS:HG3	45:BY:88:LYS:H	1.60	0.66
57:BA:300:A:H2'	57:BA:334:C:H1'	1.77	0.66
57:BA:1963:U:H2'	57:BA:1963:U:O2	1.96	0.66
2:Ac:76:VAL:HG23	2:Ac:77:ILE:HG13	1.77	0.66
3:Ad:100:ARG:HB3	3:Ad:102:ASP:OD1	1.96	0.66
4:Ae:20:GLN:HA	22:Aa:922:G:H4'	1.76	0.66
4:Ae:72:GLN:C	4:Ae:74:GLY:H	2.02	0.66
5:Af:60:PHE:C	5:Af:61:LEU:HD12	2.21	0.66
6:Ag:12:LEU:HD11	6:Ag:28:ASN:ND2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:266:G:H5”	22:Aa:268:C:H41	1.61	0.66
22:Aa:1134:G:N2	22:Aa:1141:C:H1’	2.10	0.66
26:AC:6:LYS:HD3	57:AA:2132:U:H3	1.61	0.66
28:AE:69:LYS:C	28:AE:71:GLY:H	2.04	0.66
31:AH:86:GLU:HA	31:AH:132:ARG:HA	1.78	0.66
32:AI:82:ARG:HA	32:AI:145:VAL:HG13	1.77	0.66
35:AO:104:ARG:NE	40:AT:33:LYS:HD2	2.11	0.66
36:AP:98:GLU:O	36:AP:101:VAL:HG22	1.95	0.66
38:AR:10:LEU:HD13	38:AR:17:ARG:NH1	2.09	0.66
42:AV:1:MET:HE2	42:AV:1:MET:HA	1.77	0.66
57:AA:271(A):A:H5’	57:AA:271(B):C:OP2	1.96	0.66
1:Bb:24:TRP:CZ3	1:Bb:26:PRO:HA	2.31	0.66
2:Bc:6:HIS:HD2	2:Bc:8:ILE:H	1.44	0.66
3:Bd:59:ARG:HA	3:Bd:59:ARG:NE	2.04	0.66
3:Bd:126:ILE:HD12	3:Bd:126:ILE:N	2.11	0.66
7:Bh:20:TYR:HA	7:Bh:65:TYR:CE2	2.31	0.66
11:Bl:28:LYS:HE3	11:Bl:33:ARG:HH22	1.59	0.66
26:BC:6:LYS:HA	26:BC:9:ARG:HB2	1.78	0.66
28:BE:13:ARG:HD2	28:BE:20:ALA:HB1	1.76	0.66
29:BF:84:VAL:CG1	29:BF:85:GLY:N	2.57	0.66
33:BJ:51:LEU:O	33:BJ:88:ALA:HB3	1.96	0.66
41:BU:112:ARG:NH1	42:BV:46:VAL:HG11	2.10	0.66
50:B3:27:GLY:HA3	50:B3:35:ARG:NH1	2.10	0.66
58:BB:109:C:H5’	58:BB:110:G:O5’	1.94	0.66
3:Ad:162:LEU:HD11	3:Ad:181:MET:HG2	1.77	0.66
11:Al:114:LYS:HD3	22:Aa:538:G:O3’	1.95	0.66
12:Am:96:LEU:HB3	12:Am:97:PRO:HD2	1.77	0.66
14:Ao:82:ILE:CG2	14:Ao:83:GLU:H	2.08	0.66
30:AG:92:VAL:HG23	58:AB:42:C:H1’	1.77	0.66
36:AP:23:PRO:HB2	36:AP:33:ARG:CD	2.25	0.66
36:AP:48:PRO:CG	36:AP:49:ARG:H	2.06	0.66
38:AR:10:LEU:CD2	38:AR:17:ARG:HD3	2.25	0.66
57:AA:2176:A:H2’	57:AA:2177:C:C6	2.31	0.66
2:Bc:173:VAL:O	2:Bc:175:LEU:HD12	1.95	0.66
8:Bi:16:ARG:O	8:Bi:63:ILE:HG23	1.96	0.66
10:Bk:67:ASP:OD1	10:Bk:71:LYS:HE3	1.96	0.66
21:By:33:VAL:HG11	21:By:51:TYR:OH	1.95	0.66
22:Ba:16:A:O2’	22:Ba:17:U:H5’	1.96	0.66
22:Ba:1056:U:O2’	22:Ba:1057:G:H5’	1.96	0.66
22:Ba:1510:U:H1’	22:Ba:1526:G:N2	2.11	0.66
24:Bv:61:C:O2’	24:Bv:62:C:H5’	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:184:GLU:C	26:BC:185:LYS:HE3	2.20	0.66
32:BI:68:LEU:HD11	32:BI:130:TYR:CE2	2.31	0.66
32:BI:120:ILE:HD11	32:BI:126:TYR:HD1	1.61	0.66
36:BP:75:ILE:HD12	36:BP:75:ILE:N	2.11	0.66
42:BV:5:VAL:HG21	42:BV:35:LEU:HG	1.78	0.66
42:BV:15:GLU:HB3	42:BV:16:PRO:HD2	1.78	0.66
47:B0:73:GLY:C	47:B0:75:LEU:H	2.04	0.66
53:B6:12:GLU:HA	53:B6:23:THR:HA	1.78	0.66
57:BA:443:A:H1'	57:BA:1201:C:O4'	1.96	0.66
57:BA:1833:U:H2'	57:BA:1834:U:H6	1.59	0.66
1:Ab:185:ILE:HG22	1:Ab:199:TYR:HB2	1.76	0.65
2:Ac:84:ILE:HD11	2:Ac:88:ARG:HH21	1.61	0.65
5:Af:69:GLU:O	5:Af:72:VAL:HG12	1.95	0.65
10:Ak:15:ALA:CB	10:Ak:78:GLN:HE21	2.09	0.65
11:Al:58:VAL:HG12	11:Al:60:LEU:HD22	1.76	0.65
14:Ao:12:ILE:HG12	14:Ao:31:LEU:HD21	1.78	0.65
22:Aa:170:U:O2'	22:Aa:171:A:H5'	1.96	0.65
22:Aa:708:C:H2'	22:Aa:709:G:H8	1.61	0.65
22:Aa:1208:C:H2'	22:Aa:1209:C:C6	2.31	0.65
29:AF:2:LYS:HG3	29:AF:25:PRO:HG2	1.78	0.65
30:AG:5:VAL:HG12	51:A4:24:THR:HG22	1.76	0.65
30:AG:98:ARG:HG3	51:A4:1:MET:HG2	1.78	0.65
34:AN:62:VAL:CG2	34:AN:66:LYS:HB2	2.26	0.65
34:AN:67:LEU:CD2	34:AN:87:LEU:HD13	2.26	0.65
39:AS:88:ASP:CG	39:AS:89:ARG:H	2.03	0.65
40:AT:106:SER:O	40:AT:107:ASP:CG	2.39	0.65
40:AT:132:LYS:C	40:AT:134:GLU:H	2.03	0.65
42:AV:52:VAL:O	42:AV:52:VAL:HG13	1.96	0.65
44:AX:13:LEU:HD11	49:A2:41:ILE:HG22	1.77	0.65
57:AA:1528(A):A:H62	57:AA:1541:G:N2	1.93	0.65
57:AA:2801(A):A:O4'	57:AA:2802:G:H2'	1.95	0.65
57:AA:2833:G:H3'	57:AA:2834:G:H5"	1.79	0.65
2:Bc:178:LEU:HD23	22:Ba:1112:C:C4	2.31	0.65
4:Be:76:ILE:HD11	4:Be:142:LEU:CD1	2.25	0.65
9:Bj:90:LEU:N	9:Bj:91:PRO:CD	2.59	0.65
17:Br:56:THR:HB	17:Br:58:LEU:CD1	2.25	0.65
22:Ba:505:G:H2'	22:Ba:506:G:H8	1.59	0.65
22:Ba:818:G:C2'	22:Ba:819:A:H5"	2.25	0.65
22:Ba:1049:U:H1'	22:Ba:1201:A:N7	2.11	0.65
25:Bw:59:A:H2'	25:Bw:60:U:H5'	1.78	0.65
26:BC:26:ALA:HB2	26:BC:225:ILE:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:30:GLU:CD	27:BD:63:ARG:HE	2.04	0.65
28:BE:61:ARG:HH21	57:BA:2811:G:H4'	1.61	0.65
29:BF:74:ARG:HD2	57:BA:674:G:H1'	1.78	0.65
34:BN:62:VAL:HG13	34:BN:62:VAL:O	1.96	0.65
37:BQ:35:VAL:HG11	37:BQ:130:LYS:HE2	1.76	0.65
37:BQ:133:ARG:O	37:BQ:134:ARG:HG2	1.96	0.65
39:BS:32:LEU:HD13	58:BB:31:C:N4	2.11	0.65
41:BU:59:ARG:HD3	57:BA:1009:A:C5'	2.26	0.65
41:BU:70:ARG:HA	41:BU:74:LEU:O	1.97	0.65
46:BZ:98:MET:HE2	46:BZ:99:TYR:O	1.95	0.65
57:BA:70:G:H2'	57:BA:113:G:O2'	1.96	0.65
57:BA:1528(A):A:H62	57:BA:1541:G:N2	1.93	0.65
7:Ah:63:LEU:HB2	7:Ah:65:TYR:CE1	2.31	0.65
8:Ai:97:LYS:HA	8:Ai:102:LEU:HD12	1.78	0.65
8:Ai:114:TYR:N	8:Ai:114:TYR:CD2	2.57	0.65
9:Aj:90:LEU:N	9:Aj:91:PRO:CD	2.59	0.65
12:Am:65:LYS:HE2	12:Am:70:LEU:H	1.60	0.65
12:Am:66:LEU:O	12:Am:67:GLU:C	2.39	0.65
14:Ao:16:ALA:HB1	14:Ao:21:ASP:HB3	1.77	0.65
21:Ay:14:GLU:O	21:Ay:18:LEU:HB2	1.95	0.65
21:Ay:39:ILE:CB	21:Ay:42:ASN:HD22	2.02	0.65
28:AE:59:VAL:HG13	28:AE:60:ASN:N	2.12	0.65
30:AG:39:ILE:CD1	30:AG:60:LEU:HD21	2.26	0.65
32:AI:92:VAL:HG22	32:AI:97:ILE:CG1	2.27	0.65
34:AN:2:LYS:HZ1	42:AV:12:TYR:HA	1.59	0.65
35:AO:64:ARG:HG2	35:AO:79:PHE:CG	2.31	0.65
36:AP:95:VAL:HG22	36:AP:125:VAL:HA	1.78	0.65
40:AT:28:VAL:HG22	40:AT:46:GLU:C	2.21	0.65
40:AT:28:VAL:O	40:AT:29:ARG:HD3	1.96	0.65
46:AZ:59:LEU:HG	46:AZ:69:THR:HG21	1.77	0.65
47:A0:51:VAL:HG22	47:A0:81:VAL:HG23	1.76	0.65
55:A8:52:LYS:N	55:A8:53:PRO:CD	2.59	0.65
57:AA:27:G:H22	57:AA:512:G:H2'	1.61	0.65
57:AA:116:C:O2'	57:AA:117:G:H5'	1.96	0.65
57:AA:2122:U:H2'	57:AA:2123:G:H8	1.60	0.65
57:AA:2134:A:C2	57:AA:2159:G:H1'	2.31	0.65
1:Bb:97:TRP:CE2	1:Bb:101:MET:HG3	2.31	0.65
3:Bd:119:GLN:HG3	3:Bd:123:HIS:CD2	2.31	0.65
7:Bh:30:ARG:O	7:Bh:34:GLU:HG2	1.96	0.65
8:Bi:107:ARG:HB3	22:Ba:1347:G:C8	2.31	0.65
8:Bi:114:TYR:HD2	8:Bi:114:TYR:H	1.37	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:26:ALA:C	11:Bl:27:LEU:HD22	2.21	0.65
21:By:52:LYS:HD2	21:By:54:LYS:HE3	1.77	0.65
22:Ba:17:U:H2'	22:Ba:18:C:C6	2.31	0.65
22:Ba:1134:G:N2	22:Ba:1141:C:H1'	2.11	0.65
22:Ba:1218:C:H2'	22:Ba:1219:U:C6	2.31	0.65
22:Ba:1385:G:O2'	22:Ba:1386:G:H5'	1.96	0.65
23:Bx:16:A:N6	24:Bv:36:U:H3	1.89	0.65
27:BD:154:LYS:C	27:BD:155:LEU:HD12	2.22	0.65
28:BE:72:VAL:O	28:BE:72:VAL:HG12	1.96	0.65
31:BH:41:MET:HE3	31:BH:42:ARG:C	2.20	0.65
31:BH:86:GLU:HB3	31:BH:132:ARG:CB	2.26	0.65
37:BQ:28:ALA:O	37:BQ:29:PHE:CD1	2.48	0.65
40:BT:82:LEU:HD12	40:BT:82:LEU:N	2.10	0.65
40:BT:100:TYR:HD2	40:BT:103:ARG:NH2	1.93	0.65
40:BT:113:LYS:O	40:BT:114:LEU:HD23	1.96	0.65
52:B5:50:GLY:O	52:B5:51:TYR:HB2	1.94	0.65
55:B8:32:LEU:HD12	57:BA:2391:G:OP1	1.95	0.65
9:Aj:3:LYS:HB2	9:Aj:4:ILE:HD12	1.78	0.65
22:Aa:473:G:H2'	22:Aa:474:G:H8	1.61	0.65
27:AD:259:THR:HG22	57:AA:1798:U:H5"	1.76	0.65
29:AF:183:VAL:O	29:AF:187:VAL:HG23	1.96	0.65
30:AG:4:ASP:HA	30:AG:8:LYS:CD	2.23	0.65
34:AN:1:MET:HG2	34:AN:2:LYS:N	2.11	0.65
38:AR:57:ARG:O	38:AR:59:ASP:N	2.30	0.65
40:AT:30:VAL:HA	40:AT:44:ASP:HA	1.77	0.65
41:AU:88:ILE:C	41:AU:90:VAL:H	2.04	0.65
45:AY:68:HIS:HB3	45:AY:71:LYS:HG2	1.78	0.65
49:A2:59:ARG:HD3	57:AA:77:C:OP1	1.97	0.65
55:A8:14:VAL:HG21	55:A8:22:VAL:CG1	2.25	0.65
3:Bd:100:ARG:HB3	3:Bd:102:ASP:OD1	1.95	0.65
6:Bg:102:ARG:CZ	22:Ba:939:G:H5"	2.27	0.65
8:Bi:97:LYS:HB3	8:Bi:98:PRO:HD3	1.76	0.65
10:Bk:15:ALA:CB	10:Bk:78:GLN:HE21	2.09	0.65
22:Ba:575:G:OP1	22:Ba:575:G:H4'	1.96	0.65
31:BH:28:GLY:HA3	31:BH:79:VAL:HB	1.77	0.65
40:BT:13:ARG:HA	40:BT:13:ARG:NH1	2.10	0.65
48:B1:48:LYS:N	48:B1:48:LYS:HD2	2.11	0.65
57:BA:1541:G:H1'	57:BA:1542:A:C5	2.31	0.65
1:Ab:82:ARG:HB3	1:Ab:83:MET:HE2	1.77	0.65
3:Ad:17:VAL:HG12	3:Ad:18:LYS:N	2.11	0.65
9:Aj:6:ILE:HD11	9:Aj:72:VAL:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:55:LYS:HG3	22:Aa:973:G:O4'	1.96	0.65
9:Aj:82:ILE:HG22	9:Aj:86:MET:SD	2.37	0.65
30:AG:3:LEU:O	30:AG:4:ASP:HB3	1.96	0.65
31:AH:7:LEU:HD21	31:AH:69:ARG:HD2	1.79	0.65
31:AH:158:HIS:CE1	31:AH:168:PRO:HB2	2.32	0.65
45:AY:87:LYS:HG3	45:AY:88:LYS:H	1.61	0.65
57:AA:1270:C:H5"	57:AA:1271:G:O5'	1.96	0.65
57:AA:2567:G:H2'	57:AA:2568:C:C6	2.32	0.65
1:Bb:11:LEU:HD12	1:Bb:217:ARG:HH22	1.61	0.65
4:Be:51:VAL:HB	4:Be:52:PRO:CD	2.26	0.65
4:Be:78:HIS:CD2	7:Bh:104:ARG:HG3	2.32	0.65
9:Bj:48:THR:HA	9:Bj:62:HIS:HB2	1.78	0.65
9:Bj:90:LEU:H	9:Bj:91:PRO:HD3	1.62	0.65
20:Bu:2:GLY:HA3	22:Ba:1305:G:OP1	1.95	0.65
22:Ba:312:C:H2'	22:Ba:313:A:C8	2.31	0.65
27:BD:259:THR:HG23	57:BA:1803:A:H4'	1.79	0.65
30:BG:111:LEU:HD13	30:BG:179:PRO:HG3	1.77	0.65
31:BH:41:MET:CE	31:BH:42:ARG:H	2.09	0.65
32:BI:8:PRO:CB	32:BI:14:ASP:H	2.08	0.65
32:BI:23:PRO:HB3	32:BI:27:ARG:NH2	2.11	0.65
32:BI:127:VAL:HG22	32:BI:139:GLN:HB3	1.79	0.65
35:BO:24:VAL:HG23	35:BO:33:ALA:HB2	1.78	0.65
36:BP:126:VAL:HG12	36:BP:148:LEU:HD11	1.78	0.65
44:BX:64:LYS:NZ	44:BX:73:ARG:HH21	1.93	0.65
51:B4:14:ILE:HG23	51:B4:31:ILE:CG2	2.26	0.65
56:B9:22:ARG:HH12	57:BA:2741:A:H5"	1.61	0.65
57:BA:654(G):C:H2'	57:BA:654(H):G:C8	2.31	0.65
57:BA:2401:U:C2'	57:BA:2402:C:H5"	2.26	0.65
57:BA:2877:G:O2'	57:BA:2878:U:H5'	1.95	0.65
8:Ai:99:LEU:O	8:Ai:101:PHE:N	2.30	0.65
11:Al:22:SER:C	11:Al:24:VAL:H	2.05	0.65
12:Am:79:LYS:HD3	12:Am:82:MET:CE	2.26	0.65
19:At:18:GLN:O	19:At:22:ARG:HG3	1.96	0.65
22:Aa:452:A:O2'	22:Aa:453:A:H8	1.80	0.65
22:Aa:501:C:H2'	22:Aa:502:G:H8	1.60	0.65
22:Aa:811:C:H4'	22:Aa:900:A:N6	2.11	0.65
29:AF:53:THR:HG23	29:AF:56:GLU:OE1	1.96	0.65
31:AH:149:ARG:HA	31:AH:162:ILE:HG13	1.77	0.65
32:AI:68:LEU:HD11	32:AI:130:TYR:CE2	2.32	0.65
35:AO:18:LYS:HB2	35:AO:45:GLU:HG2	1.78	0.65
36:AP:80:TYR:CZ	36:AP:111:ARG:HD3	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AV:18:LEU:HD13	42:AV:19:LYS:N	2.12	0.65
47:A0:11:ARG:HH11	47:A0:11:ARG:CB	2.09	0.65
57:AA:1503:U:H2'	57:AA:1504:C:C6	2.32	0.65
57:AA:1963:U:H2'	57:AA:1963:U:O2	1.95	0.65
57:AA:2106:G:H2'	57:AA:2107:C:O4'	1.95	0.65
57:AA:2312:U:H2'	57:AA:2313:C:H5"	1.76	0.65
18:Bs:15:LEU:O	18:Bs:19:VAL:HG23	1.97	0.65
22:Ba:1326:C:H2'	22:Ba:1327:C:C6	2.31	0.65
31:BH:43:VAL:HG12	31:BH:52:VAL:HA	1.79	0.65
34:BN:17:ASP:HB2	34:BN:55:VAL:HG12	1.79	0.65
34:BN:18:ALA:CB	34:BN:21:LYS:HB2	2.26	0.65
35:BO:88:ASN:HD21	35:BO:90:GLN:HB2	1.60	0.65
40:BT:28:VAL:HG22	40:BT:46:GLU:C	2.21	0.65
40:BT:54:ARG:HG2	40:BT:54:ARG:HH11	1.61	0.65
42:BV:19:LYS:HG3	42:BV:20:LEU:N	2.10	0.65
45:BY:7:VAL:HG21	45:BY:8:LYS:HZ2	1.62	0.65
48:B1:66:HIS:C	48:B1:68:PRO:HD2	2.21	0.65
48:B1:86:SER:HB2	48:B1:89:GLU:HB2	1.79	0.65
57:BA:141:A:C8	57:BA:1408:C:O2'	2.49	0.65
57:BA:1887:C:C3'	57:BA:1888:G:H5"	2.25	0.65
2:Ac:6:HIS:HD2	2:Ac:8:ILE:H	1.44	0.65
11:Al:83:VAL:HG12	11:Al:84:LEU:N	2.11	0.65
19:At:10:LEU:O	19:At:13:LEU:HD13	1.97	0.65
21:Ay:53:ILE:HB	21:Ay:62:LEU:HB3	1.78	0.65
27:AD:259:THR:HG21	57:AA:1803:A:H4'	1.76	0.65
32:AI:31:LEU:H	32:AI:31:LEU:HD12	1.62	0.65
32:AI:110:ASP:OD2	32:AI:113:ARG:HB2	1.97	0.65
34:AN:76:SER:O	34:AN:78:TYR:N	2.30	0.65
35:AO:47:ILE:CG1	35:AO:48:PRO:HD2	2.26	0.65
36:AP:126:VAL:HG12	36:AP:148:LEU:HD11	1.77	0.65
53:A6:5:VAL:HG12	53:A6:8:LYS:CB	2.27	0.65
7:Bh:11:THR:HG23	7:Bh:14:ARG:NH1	2.10	0.65
8:Bi:10:ARG:HD2	8:Bi:105:ASP:HB2	1.78	0.65
11:Bl:8:ASN:HD21	22:Ba:585:G:H4'	1.62	0.65
11:Bl:24:VAL:O	11:Bl:24:VAL:HG12	1.96	0.65
18:Bs:16:LEU:O	18:Bs:20:LEU:N	2.24	0.65
22:Ba:460:G:O6	22:Ba:470:C:H5"	1.97	0.65
24:Bv:59:A:C2'	24:Bv:60:U:H5'	2.26	0.65
30:BG:46:ALA:HB3	30:BG:82:LEU:HD13	1.78	0.65
30:BG:136:ARG:HH22	57:BA:2306:C:H4'	1.60	0.65
32:BI:88:ILE:HD11	32:BI:142:VAL:CG1	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:16:ARG:HG2	57:BA:1245:G:OP1	1.96	0.65
40:BT:83:ILE:HG13	40:BT:84:GLN:N	2.12	0.65
57:BA:768:G:H2'	57:BA:769:G:H8	1.61	0.65
57:BA:2795:G:N3	57:BA:2795:G:H2'	2.11	0.65
1:Ab:107:THR:HA	1:Ab:110:GLN:HE21	1.61	0.65
1:Ab:209:ARG:NH1	1:Ab:239:VAL:HG11	2.07	0.65
6:Ag:15:ASP:HB3	6:Ag:19:GLY:N	2.11	0.65
6:Ag:73:MET:HA	6:Ag:91:VAL:HG23	1.79	0.65
15:Ap:18:ARG:HD3	15:Ap:35:LYS:HD2	1.78	0.65
16:Aq:22:LEU:HD11	16:Aq:39:SER:HB2	1.78	0.65
21:Ay:44:LEU:H	21:Ay:44:LEU:HD22	1.61	0.65
22:Aa:637:G:H2'	22:Aa:638:G:H8	1.62	0.65
26:AC:6:LYS:HA	26:AC:9:ARG:HB2	1.78	0.65
30:AG:106:LEU:HD12	30:AG:110:ALA:HB1	1.78	0.65
30:AG:159:VAL:HG13	30:AG:159:VAL:O	1.95	0.65
41:AU:83:LEU:HD12	41:AU:88:ILE:HD12	1.78	0.65
42:AV:19:LYS:HG3	42:AV:20:LEU:N	2.10	0.65
44:AX:12:VAL:HG21	44:AX:27:THR:HG23	1.78	0.65
44:AX:60:ARG:HH21	54:A7:47:ARG:HD2	1.60	0.65
45:AY:8:LYS:HE3	45:AY:74:PRO:HD3	1.78	0.65
48:A1:89:GLU:CA	48:A1:92:LYS:HB3	2.25	0.65
57:AA:923:C:H2'	57:AA:924:C:H6	1.60	0.65
57:AA:2292:C:O2'	57:AA:2293:C:H5'	1.96	0.65
57:AA:2781:A:H5"	57:AA:2782:G:H5'	1.79	0.65
57:AA:2801(A):A:H5'	57:AA:2802:G:C8	2.28	0.65
57:AA:2807:G:H3'	57:AA:2808:U:H5"	1.79	0.65
1:Bb:90:MET:HE2	1:Bb:90:MET:HA	1.78	0.65
3:Bd:61:LYS:HD2	3:Bd:207:TYR:CZ	2.31	0.65
8:Bi:102:LEU:C	8:Bi:102:LEU:HD23	2.22	0.65
9:Bj:4:ILE:HD12	9:Bj:4:ILE:N	2.12	0.65
11:Bl:58:VAL:HG12	11:Bl:60:LEU:HD22	1.78	0.65
22:Ba:708:C:H2'	22:Ba:709:G:H8	1.62	0.65
22:Ba:1004:A:C5'	22:Ba:1025:U:H3	2.10	0.65
22:Ba:1051:C:H2'	22:Ba:1052:U:H6	1.61	0.65
27:BD:118:VAL:HG22	27:BD:119:ALA:N	2.12	0.65
31:BH:41:MET:HG3	31:BH:43:VAL:H	1.62	0.65
34:BN:30:ILE:O	34:BN:34:LEU:HD22	1.97	0.65
35:BO:104:ARG:NE	40:BT:33:LYS:HD2	2.12	0.65
36:BP:50:ARG:HG2	36:BP:50:ARG:NH2	2.09	0.65
40:BT:23:ARG:HG2	40:BT:120:ARG:HH12	1.62	0.65
55:B8:29:LYS:HG3	55:B8:29:LYS:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:80:G:O2'	57:BA:81:G:H5'	1.97	0.65
57:BA:330:A:HO2'	57:BA:331:A:H8	1.40	0.65
57:BA:1542:A:N7	57:BA:1544:A:H5"	2.12	0.65
8:Ai:55:ALA:CB	8:Ai:58:HIS:CD2	2.69	0.65
10:Ak:84:VAL:HG22	10:Ak:110:ASP:HA	1.78	0.65
21:Ay:44:LEU:HD22	21:Ay:44:LEU:N	2.11	0.65
22:Aa:1004:A:C5'	22:Aa:1025:U:H3	2.09	0.65
30:AG:83:ARG:NH1	30:AG:84:LYS:HZ1	1.94	0.65
38:AR:3:HIS:HB2	57:AA:1654:A:OP2	1.97	0.65
43:AW:29:LEU:O	43:AW:33:ARG:HG3	1.95	0.65
47:A0:73:GLY:C	47:A0:75:LEU:H	2.05	0.65
48:A1:45:ASN:ND2	57:AA:2090:G:H21	1.94	0.65
53:A6:12:GLU:HA	53:A6:23:THR:HA	1.79	0.65
57:AA:2329:G:H2'	57:AA:2330:G:C8	2.32	0.65
3:Bd:17:VAL:HG12	3:Bd:18:LYS:N	2.12	0.65
5:Bf:61:LEU:HD23	5:Bf:63:TYR:OH	1.97	0.65
9:Bj:26:ALA:HA	9:Bj:29:ARG:HH22	1.60	0.65
9:Bj:38:ILE:HG12	9:Bj:71:LEU:O	1.96	0.65
9:Bj:55:LYS:HZ2	22:Ba:963:G:H21	1.44	0.65
15:Bp:38:TYR:CD2	22:Ba:626:U:H5"	2.32	0.65
19:Bt:23:ARG:O	19:Bt:27:LYS:HB2	1.96	0.65
29:BF:40:GLN:HE22	29:BF:184:TYR:CB	2.10	0.65
29:BF:202:PHE:O	29:BF:206:ILE:HG12	1.97	0.65
31:BH:158:HIS:CE1	31:BH:168:PRO:HB2	2.32	0.65
33:BJ:59:ILE:O	33:BJ:61:LEU:N	2.30	0.65
43:BW:93:ALA:HB2	57:BA:1614:A:H62	1.61	0.65
57:BA:1438:U:O2'	57:BA:1439:A:H5'	1.97	0.65
57:BA:1503:U:H2'	57:BA:1504:C:C6	2.32	0.65
57:BA:1509(B):A:H2'	57:BA:1510:G:C8	2.31	0.65
57:BA:2807:G:H3'	57:BA:2808:U:H5"	1.79	0.65
8:Ai:114:TYR:HD2	8:Ai:114:TYR:N	1.93	0.65
10:Ak:20:TYR:HB2	10:Ak:31:THR:HG22	1.77	0.65
12:Am:69:GLU:CB	12:Am:72:ALA:HB3	2.26	0.65
22:Aa:17:U:H2'	22:Aa:18:C:C6	2.31	0.65
22:Aa:155:C:H2'	22:Aa:156:G:H8	1.62	0.65
22:Aa:340:U:H2'	22:Aa:341:C:C6	2.31	0.65
30:AG:173:LEU:O	30:AG:178:PHE:HB2	1.97	0.65
34:AN:46:VAL:O	34:AN:47:ALA:HB3	1.95	0.65
36:AP:67:MET:H	57:AA:2415:G:H4'	1.60	0.65
45:AY:7:VAL:CG2	45:AY:8:LYS:HZ2	2.09	0.65
49:A2:3:LEU:HD23	49:A2:3:LEU:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:79:ASP:C	1:Bb:81:VAL:H	2.02	0.65
3:Bd:88:VAL:O	3:Bd:92:VAL:HG23	1.97	0.65
11:Bl:25:PRO:C	11:Bl:27:LEU:N	2.51	0.65
11:Bl:41:ARG:HH11	11:Bl:41:ARG:CB	2.05	0.65
19:Bt:39:LYS:O	19:Bt:42:GLN:HB3	1.96	0.65
22:Ba:1129:C:H5"	22:Ba:1139:G:O6	1.97	0.65
22:Ba:1251:A:H2'	22:Ba:1252:A:C8	2.32	0.65
28:BE:96:PHE:HA	28:BE:100:GLU:OE1	1.97	0.65
29:BF:3:GLU:C	29:BF:24:LEU:HG	2.21	0.65
36:BP:6:LEU:HD23	36:BP:6:LEU:N	2.12	0.65
45:BY:76:CYS:CB	45:BY:96:ILE:HD11	2.24	0.65
46:BZ:116:VAL:O	46:BZ:174:VAL:HG13	1.97	0.65
8:Ai:15:ALA:HA	8:Ai:65:VAL:HA	1.79	0.65
8:Ai:19:LEU:HD22	8:Ai:59:PHE:HB3	1.79	0.65
12:Am:30:ALA:C	12:Am:32:GLU:H	2.04	0.65
18:As:31:ILE:HG23	18:As:49:ILE:HA	1.78	0.65
19:At:81:LYS:C	19:At:83:ARG:H	2.04	0.65
26:AC:182:PRO:HB2	26:AC:185:LYS:HD2	1.78	0.65
26:AC:190:ILE:O	26:AC:194:ILE:HG12	1.97	0.65
28:AE:111:ARG:HG3	38:AR:2:ARG:NH2	2.12	0.65
37:AQ:133:ARG:O	37:AQ:134:ARG:HG2	1.96	0.65
44:AX:64:LYS:NZ	44:AX:73:ARG:HH21	1.93	0.65
45:AY:84:ARG:HD2	45:AY:97:ARG:NE	2.10	0.65
46:AZ:110:GLY:HA3	46:AZ:174:VAL:HG11	1.79	0.65
53:A6:41:PRO:C	53:A6:43:CYS:H	2.04	0.65
57:AA:860:U:O2'	57:AA:861:A:H5'	1.96	0.65
57:AA:1352:U:O2'	57:AA:1353:A:H5'	1.96	0.65
57:AA:1532:C:H2'	57:AA:1533:G:O4'	1.97	0.65
57:AA:2223:G:C2'	57:AA:2224:G:H5'	2.27	0.65
3:Bd:79:PHE:C	3:Bd:79:PHE:CD2	2.74	0.65
3:Bd:112:VAL:HG12	3:Bd:116:GLN:OE1	1.96	0.65
4:Be:10:MET:HA	4:Be:32:VAL:HG22	1.78	0.65
12:Bm:30:ALA:C	12:Bm:32:GLU:H	2.04	0.65
14:Bo:43:LEU:HD11	14:Bo:53:HIS:HA	1.78	0.65
15:Bp:28:ARG:HG2	15:Bp:29:ASP:OD2	1.96	0.65
19:Bt:10:LEU:HD12	19:Bt:11:SER:N	2.12	0.65
22:Ba:1442(A):G:C3'	22:Ba:1442(B):A:H5'	2.26	0.65
30:BG:73:ALA:O	30:BG:85:GLY:HA2	1.97	0.65
30:BG:132:ASN:HB2	57:BA:2303:G:O2'	1.96	0.65
32:BI:98:ALA:HB1	32:BI:109:ILE:HB	1.79	0.65
35:BO:18:LYS:HB2	35:BO:45:GLU:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:85:LEU:H	36:BP:85:LEU:CD2	2.10	0.65
38:BR:10:LEU:HD13	38:BR:17:ARG:NH1	2.12	0.65
55:B8:49:VAL:HG23	55:B8:53:PRO:HB3	1.79	0.65
57:BA:2645:G:C3'	57:BA:2646:C:H5'	2.22	0.65
58:BB:40:U:H3'	58:BB:41:U:C5'	2.27	0.65
5:Af:61:LEU:HD23	5:Af:63:TYR:OH	1.97	0.64
14:Ao:82:ILE:HD13	14:Ao:82:ILE:C	2.21	0.64
15:Ap:19:ILE:HG22	15:Ap:36:ILE:HG13	1.79	0.64
16:Aq:17:LYS:HZ2	22:Aa:256:U:P	2.19	0.64
19:At:39:LYS:O	19:At:42:GLN:HB3	1.96	0.64
19:At:48:LYS:O	19:At:52:ALA:HB2	1.96	0.64
22:Aa:625:G:H2'	22:Aa:626:U:C6	2.32	0.64
22:Aa:1037:C:H2'	22:Aa:1038:C:C6	2.31	0.64
22:Aa:1184:G:H2'	22:Aa:1185:G:C8	2.32	0.64
28:AE:37:ARG:NH1	57:AA:2784:C:H1'	2.12	0.64
32:AI:74:ASN:C	32:AI:76:THR:H	2.04	0.64
36:AP:50:ARG:HD3	55:A8:7:HIS:CD2	2.32	0.64
38:AR:98:LEU:HB2	38:AR:113:LEU:CD2	2.27	0.64
41:AU:92:ARG:HE	57:AA:996:A:H4'	1.61	0.64
43:AW:4:LYS:HA	43:AW:106:ILE:HG22	1.78	0.64
43:AW:9:TYR:H	43:AW:102:HIS:HD2	1.45	0.64
47:A0:50:ASN:C	47:A0:62:LEU:HD12	2.21	0.64
58:AB:109:C:H5'	58:AB:110:G:O5'	1.96	0.64
1:Bb:80:ILE:H	1:Bb:80:ILE:CD1	2.04	0.64
1:Bb:130:ARG:HB3	1:Bb:134:GLU:HG3	1.77	0.64
9:Bj:50:ILE:CD1	13:Bn:41:ARG:HD3	2.26	0.64
19:Bt:10:LEU:O	19:Bt:13:LEU:HD13	1.97	0.64
19:Bt:81:LYS:C	19:Bt:83:ARG:H	2.05	0.64
27:BD:108:PRO:HB3	27:BD:143:HIS:CE1	2.33	0.64
29:BF:89:VAL:O	29:BF:91:GLY:N	2.28	0.64
29:BF:165:ARG:HH11	29:BF:165:ARG:CB	2.10	0.64
32:BI:83:ALA:HB2	32:BI:88:ILE:HG23	1.79	0.64
36:BP:64:LYS:HB3	55:B8:25:MET:CG	2.24	0.64
41:BU:92:ARG:HB3	42:BV:11:GLN:HE22	1.62	0.64
46:BZ:43:GLU:O	46:BZ:47:VAL:HG23	1.97	0.64
48:B1:57:GLU:O	48:B1:58:ILE:HG12	1.97	0.64
57:BA:197:A:H5'	57:BA:197:A:C8	2.31	0.64
57:BA:1021:A:C8	57:BA:1021:A:C3'	2.78	0.64
57:BA:2801(A):A:C4'	57:BA:2802:G:H2'	2.27	0.64
1:Ab:111:ARG:NH2	1:Ab:114:ARG:HG2	2.12	0.64
2:Ac:179:ARG:HG2	22:Aa:1112:C:H1'	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:25:ARG:NH1	3:Ad:30:LYS:HB2	2.12	0.64
6:Ag:12:LEU:HD11	6:Ag:28:ASN:HD21	1.61	0.64
7:Ah:20:TYR:HA	7:Ah:65:TYR:CE2	2.31	0.64
9:Aj:48:THR:HA	9:Aj:62:HIS:HB2	1.78	0.64
10:Ak:27:ASN:OD1	10:Ak:55:LYS:HB3	1.96	0.64
11:Al:89:ARG:HA	11:Al:97:ARG:HA	1.79	0.64
12:Am:68:GLY:O	12:Am:71:ARG:CB	2.43	0.64
17:Ar:56:THR:HB	17:Ar:58:LEU:CD1	2.28	0.64
18:As:36:ARG:HD3	22:Aa:1220:G:O3'	1.97	0.64
22:Aa:533:A:O2'	22:Aa:534:U:H5"	1.97	0.64
22:Aa:1116:C:C3'	22:Aa:1117:G:H5"	2.27	0.64
30:AG:53:LEU:HD22	30:AG:53:LEU:H	1.63	0.64
32:AI:58:LEU:O	32:AI:58:LEU:HD23	1.97	0.64
32:AI:109:ILE:HG21	32:AI:114:LEU:HD11	1.78	0.64
40:AT:113:LYS:O	40:AT:114:LEU:HD23	1.97	0.64
57:AA:271(G):C:O2'	57:AA:271(H):G:H5'	1.97	0.64
57:AA:1188:U:C2'	57:AA:1189:A:H5'	2.26	0.64
57:AA:2199:A:H5'	57:AA:2200:C:OP2	1.96	0.64
57:AA:2801(A):A:C4'	57:AA:2802:G:H2'	2.27	0.64
3:Bd:25:ARG:NH1	3:Bd:30:LYS:HB2	2.13	0.64
9:Bj:36:GLY:HA3	22:Ba:1123:A:H4'	1.80	0.64
13:Bn:27:CYS:C	13:Bn:29:ARG:H	2.04	0.64
16:Bq:22:LEU:HD11	16:Bq:39:SER:HB2	1.78	0.64
25:Bw:62:C:C4'	26:BC:53:ARG:HG3	2.27	0.64
30:BG:56:ALA:HB1	30:BG:153:ARG:HD2	1.79	0.64
30:BG:96:ARG:NH2	30:BG:97:ASP:HB2	2.12	0.64
31:BH:68:THR:C	31:BH:70:THR:N	2.52	0.64
31:BH:158:HIS:NE2	31:BH:170:ARG:CA	2.60	0.64
34:BN:62:VAL:HG22	34:BN:66:LYS:HB2	1.79	0.64
36:BP:107:LYS:C	36:BP:109:GLY:H	2.04	0.64
55:B8:61:LEU:HD12	55:B8:63:PRO:HD2	1.79	0.64
57:BA:32:C:O2'	57:BA:33:U:H5'	1.97	0.64
57:BA:270:A:O2'	57:BA:271:A:H5'	1.97	0.64
57:BA:271(A):A:H5'	57:BA:271(B):C:OP2	1.97	0.64
57:BA:1485:G:H1'	57:BA:1505:C:H42	1.63	0.64
5:Af:99:ALA:O	5:Af:100:ASN:HB2	1.98	0.64
9:Aj:4:ILE:HD12	9:Aj:4:ILE:N	2.12	0.64
9:Aj:51:ARG:CG	9:Aj:60:ARG:HA	2.25	0.64
15:Ap:67:THR:HG22	15:Ap:68:ASP:N	2.12	0.64
22:Aa:1391:U:H2'	22:Aa:1392:G:C8	2.32	0.64
28:AE:101:ARG:NH1	28:AE:171:GLU:HB2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:86:GLU:HB3	31:AH:132:ARG:CB	2.28	0.64
34:AN:34:LEU:O	34:AN:49:GLY:HA3	1.98	0.64
36:AP:64:LYS:HB3	55:A8:25:MET:CG	2.24	0.64
38:AR:84:ALA:HB3	38:AR:85:PRO:HD3	1.80	0.64
40:AT:28:VAL:HG13	40:AT:46:GLU:CA	2.16	0.64
42:AV:18:LEU:CG	42:AV:19:LYS:H	2.10	0.64
57:AA:1495:A:N3	57:AA:1496:A:C2	2.65	0.64
57:AA:1542:A:H5'	57:AA:1543:C:OP2	1.97	0.64
57:AA:2789:C:H1'	57:AA:2892:A:H2	1.63	0.64
1:Bb:97:TRP:HH2	1:Bb:176:GLU:HG3	1.62	0.64
1:Bb:196:LEU:HD13	1:Bb:197:VAL:HG23	1.78	0.64
7:Bh:118:VAL:O	7:Bh:119:LEU:HD23	1.96	0.64
22:Ba:674:G:H2'	22:Ba:675:A:H8	1.61	0.64
22:Ba:1310:G:O2'	22:Ba:1311:G:H5'	1.98	0.64
34:BN:76:SER:O	34:BN:78:TYR:N	2.30	0.64
36:BP:7:ARG:HB3	36:BP:7:ARG:NH1	2.11	0.64
37:BQ:110:THR:HG23	37:BQ:113:GLN:HB2	1.77	0.64
39:BS:88:ASP:OD2	39:BS:89:ARG:N	2.31	0.64
40:BT:35:LYS:NZ	40:BT:41:ARG:HH21	1.95	0.64
44:BX:60:ARG:HH21	54:B7:47:ARG:HH11	1.45	0.64
46:BZ:26:GLY:HA2	46:BZ:85:HIS:CD2	2.33	0.64
47:B0:26:TYR:O	47:B0:67:VAL:HB	1.97	0.64
55:B8:52:LYS:N	55:B8:53:PRO:CD	2.59	0.64
57:BA:613:G:C8	57:BA:613:G:H5'	2.33	0.64
57:BA:1547:C:O2'	57:BA:1548:C:H5'	1.95	0.64
1:Ab:84:GLU:HB3	1:Ab:219:VAL:HG21	1.80	0.64
7:Ah:61:VAL:HG12	7:Ah:63:LEU:HD13	1.77	0.64
22:Aa:1117:G:N2	22:Aa:1180:A:H1'	2.13	0.64
22:Aa:1251:A:H2'	22:Aa:1252:A:C8	2.32	0.64
26:AC:26:ALA:HB2	26:AC:225:ILE:HG21	1.78	0.64
30:AG:109:VAL:O	30:AG:113:ARG:CB	2.42	0.64
30:AG:158:ALA:O	30:AG:159:VAL:HB	1.97	0.64
32:AI:127:VAL:HG13	32:AI:138:ILE:O	1.98	0.64
34:AN:35:ARG:C	34:AN:37:LYS:H	2.05	0.64
46:AZ:79:ARG:O	46:AZ:80:ARG:HB2	1.96	0.64
49:A2:47:ASN:ND2	57:AA:94(A):G:N3	2.45	0.64
57:AA:2179:C:OP1	57:AA:2179:C:H4'	1.97	0.64
57:AA:2712:U:O2'	57:AA:2713:A:H5'	1.97	0.64
4:Be:39:GLY:HA2	4:Be:69:VAL:HB	1.77	0.64
5:Bf:43:LEU:HD12	5:Bf:43:LEU:N	2.08	0.64
5:Bf:60:PHE:C	5:Bf:61:LEU:HD12	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:9:ARG:HG2	8:Bi:14:VAL:HG22	1.78	0.64
8:Bi:114:TYR:HD2	8:Bi:114:TYR:N	1.94	0.64
12:Bm:79:LYS:HD3	12:Bm:82:MET:CE	2.27	0.64
15:Bp:18:ARG:HD3	15:Bp:35:LYS:HD2	1.79	0.64
22:Ba:935:A:H2'	22:Ba:936:C:C6	2.32	0.64
22:Ba:1116:C:C3'	22:Ba:1117:G:H5"	2.25	0.64
27:BD:133:LEU:HB3	27:BD:173:VAL:HG11	1.79	0.64
28:BE:37:ARG:NH1	57:BA:2784:C:H1'	2.12	0.64
28:BE:165:VAL:HG11	57:BA:2679:A:H5'	1.78	0.64
29:BF:32:LEU:O	29:BF:36:VAL:HG23	1.98	0.64
31:BH:68:THR:C	31:BH:70:THR:H	2.06	0.64
40:BT:3:ARG:NE	57:BA:2876:G:H4'	2.12	0.64
57:BA:271(M):G:O2'	57:BA:271(O):C:H5'	1.97	0.64
57:BA:2801(A):A:H4'	57:BA:2802:G:C5'	2.20	0.64
57:BA:2801(A):A:H5'	57:BA:2802:G:C8	2.28	0.64
2:Ac:173:VAL:O	2:Ac:175:LEU:HD12	1.98	0.64
6:Ag:54:THR:OG1	6:Ag:56:GLN:HG2	1.97	0.64
15:Ap:74:LEU:O	15:Ap:79:VAL:HG23	1.98	0.64
16:Aq:70:ARG:HG2	22:Aa:235:C:H5'	1.80	0.64
22:Aa:1293:G:O2'	22:Aa:1294:G:H8	1.79	0.64
27:AD:45:ASN:HD22	27:AD:50:THR:HG21	1.63	0.64
27:AD:118:VAL:HG22	27:AD:119:ALA:H	1.62	0.64
27:AD:155:LEU:HD23	27:AD:177:LEU:HD22	1.78	0.64
29:AF:7:TYR:HD2	29:AF:16:GLY:H	1.46	0.64
29:AF:160:ASN:ND2	29:AF:162:LEU:H	1.95	0.64
36:AP:146:VAL:HG13	36:AP:147:LEU:N	2.13	0.64
42:AV:79:VAL:HG22	57:AA:1188:U:H4'	1.80	0.64
57:AA:612:C:C3'	57:AA:613:G:H5"	2.27	0.64
57:AA:613:G:C8	57:AA:613:G:H5'	2.32	0.64
57:AA:2193:G:H8	57:AA:2193:G:H5'	1.61	0.64
1:Bb:17:PHE:CD1	1:Bb:44:LEU:HD11	2.32	0.64
2:Bc:179:ARG:HG2	22:Ba:1112:C:H1'	1.80	0.64
5:Bf:99:ALA:O	5:Bf:100:ASN:HB2	1.98	0.64
6:Bg:18:TYR:CD2	6:Bg:59:LEU:HD22	2.31	0.64
8:Bi:15:ALA:HA	8:Bi:65:VAL:HA	1.80	0.64
8:Bi:16:ARG:HH22	22:Ba:1128:C:C5'	2.06	0.64
8:Bi:100:GLY:O	8:Bi:102:LEU:N	2.31	0.64
8:Bi:114:TYR:HD1	9:Bj:60:ARG:HG3	1.63	0.64
10:Bk:27:ASN:OD1	10:Bk:55:LYS:HB3	1.97	0.64
22:Ba:1010:G:N2	22:Ba:1020:U:H1'	2.13	0.64
27:BD:45:ASN:HD22	27:BD:50:THR:HG21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:77:ILE:HG22	28:BE:78:LEU:N	2.07	0.64
29:BF:157:VAL:HG22	29:BF:194:MET:HG2	1.77	0.64
34:BN:62:VAL:HG11	34:BN:67:LEU:HD21	1.78	0.64
36:BP:48:PRO:CG	36:BP:49:ARG:H	2.08	0.64
40:BT:102:ILE:HB	40:BT:110:ILE:CD1	2.27	0.64
42:BV:79:VAL:HG22	57:BA:1188:U:H4'	1.80	0.64
46:BZ:151:HIS:HB3	46:BZ:170:THR:HA	1.78	0.64
49:B2:2:LYS:CB	57:BA:97:C:H5"	2.28	0.64
57:BA:2199:A:H3'	57:BA:2200:C:H6	1.61	0.64
57:BA:2781:A:H5"	57:BA:2782:G:H5'	1.80	0.64
1:Ab:130:ARG:HB3	1:Ab:134:GLU:HG3	1.78	0.64
2:Ac:81:GLY:O	2:Ac:85:ARG:HB2	1.98	0.64
9:Aj:50:ILE:CD1	13:An:41:ARG:HD3	2.27	0.64
9:Aj:90:LEU:H	9:Aj:91:PRO:HD3	1.63	0.64
11:Al:26:ALA:C	11:Al:27:LEU:HD22	2.23	0.64
21:Ay:8:ASP:HB2	21:Ay:74:PHE:CE2	2.32	0.64
21:Ay:31:VAL:HA	21:Ay:34:LEU:HD12	1.80	0.64
22:Aa:624:C:H2'	22:Aa:625:G:C8	2.30	0.64
27:AD:223:GLY:HA2	27:AD:226:MET:HE3	1.79	0.64
36:AP:106:LEU:HD13	36:AP:112:LEU:HD23	1.79	0.64
37:AQ:59:ARG:HA	46:AZ:180:VAL:HG23	1.80	0.64
42:AV:21:ARG:HD3	42:AV:21:ARG:N	2.13	0.64
51:A4:5:ILE:N	51:A4:5:ILE:HD13	2.13	0.64
54:A7:8:ASN:C	54:A7:8:ASN:ND2	2.55	0.64
57:AA:1809:A:H2'	57:AA:1810:A:C8	2.32	0.64
57:AA:2401:U:C2'	57:AA:2402:C:H5"	2.26	0.64
9:Bj:55:LYS:HG3	22:Ba:973:G:O4'	1.96	0.64
18:Bs:31:ILE:CG2	18:Bs:49:ILE:HA	2.28	0.64
22:Ba:390:C:H2'	22:Ba:391:G:C8	2.32	0.64
22:Ba:663:A:O2'	22:Ba:664:G:H5'	1.97	0.64
22:Ba:777:A:H2'	22:Ba:778:G:H8	1.63	0.64
26:BC:6:LYS:HD3	57:BA:2132:U:H3	1.61	0.64
28:BE:46:ALA:HB2	28:BE:82:ARG:HA	1.79	0.64
28:BE:69:LYS:NZ	28:BE:90:THR:H	1.94	0.64
28:BE:101:ARG:NH1	28:BE:171:GLU:HB2	2.12	0.64
29:BF:40:GLN:HE22	29:BF:184:TYR:H	1.44	0.64
31:BH:9:ILE:C	31:BH:9:ILE:HD13	2.22	0.64
39:BS:88:ASP:CG	39:BS:89:ARG:H	2.03	0.64
40:BT:38:ASN:ND2	40:BT:40:THR:OG1	2.30	0.64
43:BW:64:MET:O	43:BW:65:LEU:HB3	1.97	0.64
44:BX:24:GLY:HA3	44:BX:83:VAL:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:8:LYS:HE3	45:BY:74:PRO:HD3	1.78	0.64
46:BZ:141:VAL:CA	46:BZ:144:LEU:HD21	2.27	0.64
48:B1:57:GLU:C	48:B1:58:ILE:HG23	2.22	0.64
51:B4:14:ILE:HD12	51:B4:14:ILE:N	2.12	0.64
57:BA:1899:G:O2'	57:BA:1900:A:H5"	1.97	0.64
5:Af:28:ARG:HH11	5:Af:28:ARG:HG3	1.61	0.64
8:Ai:114:TYR:HD1	9:Aj:60:ARG:HG3	1.63	0.64
12:Am:73:GLU:O	12:Am:75:ALA:N	2.30	0.64
14:Ao:82:ILE:HD11	14:Ao:87:ILE:O	1.97	0.64
15:Ap:72:ARG:HH21	15:Ap:73:LEU:HD21	1.62	0.64
18:As:58:VAL:O	18:As:58:VAL:HG23	1.98	0.64
22:Aa:639:G:O2'	22:Aa:640:A:H5'	1.97	0.64
22:Aa:1049:U:H1'	22:Aa:1201:A:N7	2.13	0.64
27:AD:227:ASN:HA	27:AD:235:GLY:H	1.63	0.64
28:AE:61:ARG:HH21	57:AA:2811:G:H4'	1.62	0.64
36:AP:84:ASN:HA	36:AP:115:LEU:O	1.97	0.64
57:AA:1438:U:O2'	57:AA:1439:A:H5'	1.98	0.64
57:AA:1541:G:H1'	57:AA:1542:A:C5	2.33	0.64
57:AA:2472:G:H3'	57:AA:2475:C:N4	2.12	0.64
4:Be:36:ASP:O	4:Be:37:ARG:HG3	1.98	0.64
9:Bj:13:HIS:HD2	22:Ba:1152:A:H5"	1.62	0.64
12:Bm:113:PRO:O	12:Bm:114:ARG:CG	2.46	0.64
22:Ba:272:C:O2'	22:Ba:273:A:H5'	1.97	0.64
29:BF:178:PRO:HG2	29:BF:179:GLU:OE2	1.97	0.64
31:BH:11:VAL:HG21	31:BH:50:VAL:HG23	1.79	0.64
31:BH:109:PHE:C	31:BH:111:HIS:H	2.04	0.64
36:BP:115:LEU:HA	36:BP:134:ALA:HB2	1.80	0.64
38:BR:2:ARG:N	38:BR:2:ARG:NH1	2.36	0.64
51:B4:3:GLU:HG2	58:BB:43:C:OP1	1.98	0.64
57:BA:1270:C:H5"	57:BA:1271:G:O5'	1.98	0.64
2:Ac:92:ALA:HB2	2:Ac:99:VAL:CG2	2.28	0.64
2:Ac:131:ARG:HH12	4:Ae:50:GLU:HG2	1.60	0.64
3:Ad:79:PHE:O	3:Ad:79:PHE:HD2	1.80	0.64
5:Af:69:GLU:HB2	22:Aa:738:C:H5"	1.78	0.64
9:Aj:50:ILE:HD13	9:Aj:50:ILE:N	1.99	0.64
22:Aa:1097:C:H2'	22:Aa:1098:C:H6	1.62	0.64
25:Aw:65:C:H2'	25:Aw:66:C:C6	2.33	0.64
28:AE:61:ARG:HD2	57:AA:2632:A:H2	1.63	0.64
28:AE:95:ILE:HD13	28:AE:95:ILE:N	2.13	0.64
28:AE:111:ARG:HG3	38:AR:2:ARG:CZ	2.27	0.64
30:AG:67:LYS:HE2	51:A4:6:HIS:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:44:VAL:HG12	31:AH:45:VAL:H	1.62	0.64
37:AQ:46:GLN:HE21	57:AA:2485:G:H5"	1.61	0.64
40:AT:82:LEU:HD12	40:AT:82:LEU:N	2.13	0.64
43:AW:10:VAL:HG12	43:AW:11:ARG:N	2.13	0.64
43:AW:40:ASN:O	43:AW:41:LYS:HG2	1.98	0.64
46:AZ:112:ARG:HD3	46:AZ:112:ARG:O	1.97	0.64
2:Bc:81:GLY:O	2:Bc:85:ARG:HB2	1.97	0.64
2:Bc:172:ARG:HG2	22:Ba:1106:G:H5"	1.80	0.64
19:Bt:103:GLY:N	22:Ba:192:U:H4'	2.08	0.64
22:Ba:170:U:O2'	22:Ba:171:A:H5'	1.97	0.64
22:Ba:711:G:O2'	22:Ba:712:A:H5'	1.98	0.64
22:Ba:1391:U:H2'	22:Ba:1392:G:C8	2.33	0.64
25:Bw:5:G:O2'	25:Bw:6:G:H5'	1.98	0.64
27:BD:4:LYS:HE3	27:BD:20:ASP:HA	1.79	0.64
27:BD:129:ASN:O	27:BD:193:VAL:HG12	1.98	0.64
30:BG:130:ASN:HD22	30:BG:160:VAL:HG22	1.63	0.64
31:BH:41:MET:CG	31:BH:42:ARG:N	2.61	0.64
31:BH:41:MET:HG3	31:BH:42:ARG:N	2.13	0.64
35:BO:64:ARG:HG2	35:BO:79:PHE:CG	2.32	0.64
38:BR:38:VAL:HB	38:BR:39:PRO:HD3	1.80	0.64
40:BT:23:ARG:HG2	40:BT:120:ARG:NH1	2.13	0.64
46:BZ:69:THR:HA	46:BZ:89:PHE:O	1.98	0.64
46:BZ:114:GLY:O	46:BZ:177:PRO:HG3	1.96	0.64
46:BZ:128:VAL:HG22	46:BZ:132:ASN:O	1.97	0.64
46:BZ:175:VAL:CB	46:BZ:176:PRO:HD2	2.27	0.64
53:B6:48:VAL:O	53:B6:49:HIS:HB2	1.98	0.64
57:BA:247:G:H4'	57:BA:386:G:C5	2.32	0.64
57:BA:1657:C:H2'	57:BA:1658:C:C6	2.33	0.64
57:BA:2023:G:H5'	57:BA:2617:C:H4'	1.79	0.64
57:BA:2146:C:H4'	57:BA:2147:G:C8	2.33	0.64
57:BA:2292:C:O2'	57:BA:2293:C:H5'	1.97	0.64
57:BA:2450:A:O2'	57:BA:2451:A:H5'	1.97	0.64
6:Ag:102:ARG:CZ	22:Aa:939:G:H5"	2.27	0.64
7:Ah:91:ARG:HH11	7:Ah:91:ARG:HG2	1.62	0.64
19:At:23:ARG:O	19:At:27:LYS:HB2	1.97	0.64
22:Aa:84:U:H2'	22:Aa:88:A:H5'	1.79	0.64
22:Aa:1014:A:H2'	22:Aa:1015:A:C8	2.32	0.64
22:Aa:1456:G:H2'	22:Aa:1457:G:C5'	2.26	0.64
29:AF:101:LEU:HD12	29:AF:102:PRO:HD2	1.80	0.64
31:AH:109:PHE:C	31:AH:111:HIS:H	2.04	0.64
32:AI:62:LYS:NZ	32:AI:133:HIS:HB2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:120:ILE:HD11	32:AI:126:TYR:HD1	1.63	0.64
35:AO:20:MET:O	35:AO:41:ALA:HB1	1.98	0.64
46:AZ:157:LEU:HD23	46:AZ:157:LEU:H	1.62	0.64
57:AA:633:A:H2'	57:AA:634:C:H5'	1.80	0.64
57:AA:1681:G:H8	57:AA:1681:G:OP2	1.79	0.64
6:Bg:137:LYS:O	6:Bg:141:VAL:HG23	1.98	0.64
8:Bi:12:GLU:HG3	22:Ba:1370:G:H5"	1.80	0.64
8:Bi:39:GLY:HA3	22:Ba:1291:G:H4'	1.79	0.64
11:Bl:83:VAL:HG12	11:Bl:84:LEU:N	2.13	0.64
15:Bp:19:ILE:HG22	15:Bp:36:ILE:HG13	1.80	0.64
17:Br:36:ASN:HB2	17:Br:40:LEU:CD1	2.28	0.64
21:By:50:CYS:HA	21:By:65:GLN:HA	1.80	0.64
22:Ba:624:C:H2'	22:Ba:625:G:C8	2.30	0.64
22:Ba:659:U:O2'	22:Ba:660:G:H5'	1.97	0.64
22:Ba:862:C:O2'	22:Ba:863:U:H5'	1.98	0.64
30:BG:108:ASN:C	30:BG:109:VAL:CG2	2.71	0.64
40:BT:38:ASN:HD22	40:BT:40:THR:CG2	2.11	0.64
46:BZ:31:ARG:HB2	46:BZ:31:ARG:HH11	1.62	0.64
57:BA:1210:A:H5"	57:BA:1212:G:O4'	1.97	0.64
57:BA:1403:C:H5"	57:BA:1471:A:C1'	2.26	0.64
57:BA:2193:G:H5'	57:BA:2193:G:H8	1.62	0.64
58:BB:38:C:O2	58:BB:48:A:H1'	1.97	0.64
58:BB:80:U:H2'	58:BB:81:G:N2	2.11	0.64
1:Ab:101:MET:HB2	1:Ab:102:LEU:HD12	1.78	0.64
3:Ad:35:ARG:C	3:Ad:37:PRO:HD3	2.23	0.64
4:Ae:69:VAL:O	4:Ae:71:LEU:N	2.27	0.64
18:As:21:GLU:O	18:As:24:ALA:HB3	1.98	0.64
22:Aa:312:C:H2'	22:Aa:313:A:C8	2.33	0.64
22:Aa:859:A:H2'	22:Aa:860:A:O4'	1.96	0.64
22:Aa:1342:C:H2'	22:Aa:1343:G:H8	1.63	0.64
24:Av:3:C:H2'	24:Av:4:G:C5'	2.28	0.64
29:AF:89:VAL:HG21	57:AA:586:A:H5'	1.80	0.64
31:AH:41:MET:HG3	31:AH:43:VAL:H	1.62	0.64
31:AH:107:VAL:HG23	31:AH:107:VAL:O	1.97	0.64
32:AI:83:ALA:HB2	32:AI:88:ILE:HG23	1.79	0.64
34:AN:18:ALA:CB	34:AN:21:LYS:HB2	2.27	0.64
34:AN:57:ALA:O	34:AN:58:ASP:O	2.16	0.64
57:AA:1464:C:O2'	57:AA:1528:A:C8	2.49	0.64
57:AA:1899:G:O2'	57:AA:1900:A:H5"	1.97	0.64
58:AB:40:U:H3'	58:AB:41:U:C5'	2.27	0.64
1:Bb:98:LEU:HB2	1:Bb:101:MET:CE	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:107:THR:HA	1:Bb:110:GLN:HE21	1.61	0.64
3:Bd:126:ILE:HG22	3:Bd:127:THR:N	2.13	0.64
5:Bf:55:ASP:HB2	5:Bf:86:ARG:NH1	2.13	0.64
6:Bg:102:ARG:NH1	22:Ba:939:G:H5"	2.13	0.64
9:Bj:61:GLU:HG3	13:Bn:58:LYS:HE2	1.80	0.64
12:Bm:90:LEU:O	12:Bm:91:ARG:HB2	1.96	0.64
17:Br:45:SER:H	17:Br:51:LEU:HD11	1.63	0.64
19:Bt:18:GLN:O	19:Bt:22:ARG:HG3	1.98	0.64
22:Ba:287:U:O2'	22:Ba:288:A:H5'	1.98	0.64
22:Ba:340:U:H2'	22:Ba:341:C:C6	2.33	0.64
22:Ba:1208:C:H2'	22:Ba:1209:C:C6	2.32	0.64
26:BC:190:ILE:O	26:BC:194:ILE:HG12	1.98	0.64
29:BF:2:LYS:HG3	29:BF:25:PRO:HG2	1.80	0.64
30:BG:12:TYR:HA	30:BG:16:ARG:CB	2.27	0.64
38:BR:2:ARG:O	38:BR:3:HIS:C	2.39	0.64
55:B8:6:THR:HG22	55:B8:63:PRO:HD3	1.79	0.64
55:B8:59:LYS:CB	55:B8:59:LYS:HZ3	2.11	0.64
57:BA:197:A:H5'	57:BA:197:A:H8	1.63	0.64
3:Ad:160:GLN:O	3:Ad:163:GLU:HB3	1.97	0.63
5:Af:26:ILE:O	5:Af:30:LEU:HG	1.97	0.63
10:Ak:38:ASN:O	10:Ak:40:ILE:HD13	1.97	0.63
22:Aa:833:U:H2'	22:Aa:834:C:C6	2.31	0.63
22:Aa:1288:A:H2'	22:Aa:1289:A:H8	1.62	0.63
26:AC:184:GLU:C	26:AC:185:LYS:HE3	2.23	0.63
27:AD:208:LYS:HB2	57:AA:729:G:C5	2.32	0.63
30:AG:106:LEU:CA	30:AG:110:ALA:CB	2.75	0.63
31:AH:158:HIS:NE2	31:AH:170:ARG:CA	2.61	0.63
34:AN:17:ASP:HB2	34:AN:55:VAL:HG12	1.80	0.63
43:AW:6:ILE:HA	43:AW:103:ILE:O	1.98	0.63
46:AZ:72:ARG:O	46:AZ:72:ARG:HD3	1.97	0.63
46:AZ:153:SER:C	46:AZ:155:LEU:HD23	2.24	0.63
52:A5:51:TYR:CG	52:A5:52:TYR:N	2.65	0.63
57:AA:1177:A:H5'	57:AA:1178:C:C6	2.33	0.63
57:AA:1210:A:H5"	57:AA:1212:G:O4'	1.98	0.63
57:AA:1280:G:H2'	57:AA:1281:G:H5"	1.78	0.63
57:AA:1833:U:H2'	57:AA:1834:U:H6	1.62	0.63
57:AA:2146:C:H4'	57:AA:2147:G:C8	2.33	0.63
58:AB:38:C:O2	58:AB:48:A:H1'	1.99	0.63
1:Bb:84:GLU:HB3	1:Bb:219:VAL:HG21	1.79	0.63
2:Bc:84:ILE:HD11	2:Bc:88:ARG:HH21	1.61	0.63
14:Bo:65:ARG:HG2	14:Bo:65:ARG:NH1	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:Bp:43:LYS:HG3	15:Bp:48:TRP:CG	2.33	0.63
21:By:44:LEU:N	21:By:51:TYR:HA	2.12	0.63
21:By:54:LYS:HE2	23:Bx:21:CCC:PC	2.38	0.63
21:By:71:VAL:O	21:By:71:VAL:HG12	1.98	0.63
22:Ba:625:G:H2'	22:Ba:626:U:C6	2.33	0.63
33:BJ:73:GLY:O	33:BJ:75:GLN:N	2.30	0.63
45:BY:8:LYS:HE2	45:BY:72:VAL:HG23	1.79	0.63
57:BA:271(G):C:O2'	57:BA:271(H):G:H5'	1.98	0.63
57:BA:2201:C:O2'	57:BA:2202:C:H5'	1.98	0.63
2:Ac:172:ARG:HG2	22:Aa:1106:G:H5"	1.79	0.63
3:Ad:152:SER:O	3:Ad:155:LEU:HG	1.98	0.63
21:Ay:40:GLU:C	21:Ay:42:ASN:H	2.06	0.63
22:Aa:107:G:C2'	22:Aa:108:G:H5'	2.29	0.63
22:Aa:630:G:H2'	22:Aa:631:G:H5"	1.81	0.63
22:Aa:1310:G:O2'	22:Aa:1311:G:H5'	1.99	0.63
27:AD:30:GLU:CD	27:AD:63:ARG:HE	2.06	0.63
29:AF:40:GLN:NE2	29:AF:184:TYR:CB	2.61	0.63
30:AG:103:LEU:O	30:AG:107:LEU:HG	1.98	0.63
34:AN:128:HIS:HE1	34:AN:134:ARG:NH1	1.96	0.63
38:AR:2:ARG:O	38:AR:3:HIS:C	2.41	0.63
46:AZ:108:PRO:HG2	46:AZ:111:VAL:HG23	1.79	0.63
47:A0:23:VAL:HG21	57:AA:857:C:H4'	1.79	0.63
49:A2:42:GLY:O	49:A2:43:GLN:O	2.15	0.63
49:A2:47:ASN:O	49:A2:49:LYS:N	2.31	0.63
55:A8:49:VAL:HG23	55:A8:53:PRO:HB3	1.81	0.63
8:Bi:33:PHE:C	8:Bi:35:GLU:H	2.05	0.63
29:BF:157:VAL:HG21	29:BF:194:MET:HG2	1.80	0.63
40:BT:70:VAL:HG12	40:BT:71:GLY:H	1.62	0.63
42:BV:18:LEU:CG	42:BV:19:LYS:H	2.10	0.63
42:BV:18:LEU:CD1	42:BV:19:LYS:H	2.11	0.63
46:BZ:119:GLU:O	46:BZ:121:HIS:N	2.30	0.63
48:B1:48:LYS:HD2	48:B1:48:LYS:H	1.64	0.63
52:B5:7:PRO:HA	57:BA:2615:U:C2	2.33	0.63
57:BA:528:A:H2	57:BA:2043:C:C4'	2.11	0.63
57:BA:1722:A:H2	57:BA:1740:G:H2'	1.64	0.63
57:BA:1991:U:C2'	57:BA:1992:G:H5"	2.28	0.63
57:BA:2329:G:H2'	57:BA:2330:G:C8	2.34	0.63
4:Ae:135:THR:O	4:Ae:138:ALA:HB3	1.98	0.63
5:Af:55:ASP:HB2	5:Af:86:ARG:NH1	2.14	0.63
8:Ai:10:ARG:HD2	8:Ai:105:ASP:HB2	1.79	0.63
13:An:45:ARG:HH22	22:Aa:1060:C:H5'	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ar:81:PHE:CE2	22:Aa:674:G:H1'	2.33	0.63
22:Aa:503:C:H2'	22:Aa:504:C:C6	2.33	0.63
22:Aa:1456:G:C2'	22:Aa:1457:G:H5'	2.28	0.63
29:AF:20:LEU:HD12	29:AF:199:TRP:CZ3	2.34	0.63
29:AF:101:LEU:O	29:AF:106:ARG:NH1	2.30	0.63
30:AG:12:TYR:O	30:AG:16:ARG:HB2	1.98	0.63
30:AG:111:LEU:CD2	30:AG:120:LEU:HD21	2.26	0.63
31:AH:44:VAL:O	31:AH:46:GLU:N	2.31	0.63
38:AR:100:LEU:HD22	38:AR:100:LEU:N	2.08	0.63
40:AT:26:ASP:C	40:AT:26:ASP:OD2	2.40	0.63
45:AY:4:LYS:HG3	45:AY:5:MET:H	1.64	0.63
55:A8:8:LYS:O	55:A8:12:LYS:HG3	1.99	0.63
57:AA:654(G):C:H2'	57:AA:654(H):G:C8	2.33	0.63
57:AA:1403:C:H5"	57:AA:1471:A:C1'	2.27	0.63
8:Bi:79:LEU:HD21	8:Bi:103:THR:O	1.98	0.63
9:Bj:84:GLN:O	9:Bj:88:LEU:HB3	1.98	0.63
12:Bm:108:ARG:HG3	12:Bm:113:PRO:O	1.98	0.63
15:Bp:53:VAL:HG12	15:Bp:79:VAL:HG22	1.79	0.63
17:Br:37:VAL:HG23	17:Br:38:GLU:N	2.11	0.63
22:Ba:41:G:H2'	22:Ba:42:G:H8	1.64	0.63
27:BD:139:GLY:H	27:BD:165:ILE:HB	1.63	0.63
30:BG:67:LYS:HE2	51:B4:6:HIS:NE2	2.13	0.63
45:BY:51:VAL:HG12	45:BY:53:PRO:CD	2.21	0.63
53:B6:16:CYS:O	53:B6:17:LYS:HB2	1.98	0.63
57:BA:1280:G:H2'	57:BA:1281:G:H5"	1.79	0.63
57:BA:2176:A:H2'	57:BA:2177:C:C6	2.33	0.63
1:Ab:17:PHE:CD1	1:Ab:44:LEU:HD11	2.34	0.63
2:Ac:178:LEU:HD23	22:Aa:1112:C:C4	2.34	0.63
4:Ae:143:ARG:HH11	4:Ae:143:ARG:HG3	1.62	0.63
6:Ag:20:ASP:C	6:Ag:22:LEU:H	2.05	0.63
22:Aa:148:G:H2'	22:Aa:149:A:C8	2.33	0.63
22:Aa:935:A:H2'	22:Aa:936:C:C6	2.33	0.63
30:AG:109:VAL:HG13	51:A4:33:VAL:HG13	1.80	0.63
36:AP:50:ARG:HG2	36:AP:50:ARG:NH2	2.07	0.63
36:AP:75:ILE:HD12	36:AP:75:ILE:N	2.12	0.63
46:AZ:152:ALA:HB2	46:AZ:168:GLU:HA	1.81	0.63
51:A4:1:MET:H2	58:AB:43:C:H5'	1.63	0.63
58:AB:87:G:C3'	58:AB:88:C:H5"	2.28	0.63
5:Bf:69:GLU:HB2	22:Ba:738:C:H5"	1.81	0.63
11:Bl:22:SER:C	11:Bl:24:VAL:H	2.05	0.63
15:Bp:17:TYR:HE1	15:Bp:41:PRO:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:155:C:H2'	22:Ba:156:G:H8	1.62	0.63
22:Ba:291:C:O2'	22:Ba:292:G:H5'	1.99	0.63
22:Ba:1343:G:H2'	22:Ba:1344:C:C6	2.34	0.63
27:BD:208:LYS:HB2	57:BA:729:G:C5	2.32	0.63
28:BE:59:VAL:HG11	28:BE:63:LEU:HG	1.79	0.63
28:BE:120:TRP:CE3	28:BE:155:LYS:HD3	2.33	0.63
30:BG:111:LEU:HD13	30:BG:179:PRO:HG2	1.79	0.63
31:BH:86:GLU:HA	31:BH:132:ARG:HA	1.79	0.63
32:BI:31:LEU:H	32:BI:31:LEU:HD12	1.63	0.63
32:BI:82:ARG:HA	32:BI:145:VAL:HG13	1.79	0.63
32:BI:84:GLY:HA3	32:BI:89:TYR:CZ	2.34	0.63
32:BI:92:VAL:CB	32:BI:120:ILE:HB	2.23	0.63
36:BP:108:LYS:C	36:BP:110:TYR:H	2.07	0.63
38:BR:10:LEU:HB3	38:BR:17:ARG:HD3	1.80	0.63
41:BU:57:PHE:C	41:BU:59:ARG:N	2.54	0.63
42:BV:38:LEU:O	42:BV:52:VAL:HG12	1.98	0.63
43:BW:4:LYS:HA	43:BW:106:ILE:HG22	1.80	0.63
45:BY:2:ARG:N	45:BY:4:LYS:HE2	2.13	0.63
57:BA:1532:C:H2'	57:BA:1533:G:O4'	1.98	0.63
6:Ag:53:LYS:O	6:Ag:54:THR:HB	1.99	0.63
6:Ag:64:GLN:HG3	6:Ag:68:ASN:HD21	1.64	0.63
8:Ai:33:PHE:C	8:Ai:35:GLU:H	2.06	0.63
15:Ap:38:TYR:CD2	22:Aa:626:U:H5"	2.34	0.63
22:Aa:15:G:H2'	22:Aa:16:A:C8	2.33	0.63
22:Aa:736:C:H2'	22:Aa:737:A:C8	2.33	0.63
25:Aw:9:G:O2'	25:Aw:10:G:C8	2.49	0.63
27:AD:142:VAL:HG23	27:AD:192:THR:O	1.98	0.63
27:AD:263:ARG:NH1	27:AD:263:ARG:HB2	2.14	0.63
29:AF:157:VAL:HG22	29:AF:194:MET:HG2	1.81	0.63
39:AS:88:ASP:OD2	39:AS:89:ARG:N	2.32	0.63
40:AT:23:ARG:HG2	40:AT:120:ARG:NH1	2.12	0.63
44:AX:37:THR:HG21	57:AA:143:G:H1'	1.80	0.63
48:A1:30:VAL:HG23	48:A1:31:GLY:N	2.14	0.63
51:A4:11:PRO:HA	51:A4:25:TYR:HA	1.81	0.63
57:AA:481:G:H1'	57:AA:506:G:N2	2.13	0.63
57:AA:535:C:O2'	57:AA:536:A:H5'	1.99	0.63
9:Bj:81:THR:C	9:Bj:83:GLU:H	2.06	0.63
10:Bk:38:ASN:O	10:Bk:40:ILE:HD13	1.99	0.63
21:By:61:ARG:CG	21:By:86:VAL:HG21	2.26	0.63
22:Ba:336:C:H2'	22:Ba:337:C:C6	2.33	0.63
36:BP:80:TYR:CE1	36:BP:111:ARG:HD3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:134:ARG:NH2	46:BZ:122:ARG:HE	1.95	0.63
40:BT:27:THR:CG2	40:BT:28:VAL:H	2.10	0.63
40:BT:35:LYS:HZ3	40:BT:41:ARG:HH21	1.44	0.63
40:BT:109:GLU:HG2	40:BT:112:ARG:NH2	2.13	0.63
45:BY:4:LYS:HG3	45:BY:5:MET:H	1.64	0.63
46:BZ:56:VAL:HG13	46:BZ:69:THR:O	1.98	0.63
57:BA:1485:G:H2'	57:BA:1486:A:C8	2.32	0.63
57:BA:2233:U:H2'	57:BA:2234:G:C8	2.34	0.63
4:Ae:8:GLU:N	4:Ae:34:VAL:HG23	2.14	0.63
8:Ai:39:GLY:HA3	22:Aa:1291:G:H4'	1.80	0.63
9:Aj:24:VAL:HG21	9:Aj:37:PRO:HG3	1.79	0.63
9:Aj:34:VAL:HG22	9:Aj:74:ILE:HG22	1.79	0.63
15:Ap:20:VAL:HG21	15:Ap:32:TYR:HB2	1.79	0.63
19:At:105:SER:HB3	22:Aa:191:G:C4	2.33	0.63
21:Ay:56:ARG:HB3	22:Aa:531:U:OP1	1.99	0.63
21:Ay:86:VAL:HG23	21:Ay:87:TYR:H	1.62	0.63
22:Aa:486:U:H2'	22:Aa:487:A:H8	1.64	0.63
29:AF:157:VAL:HG21	29:AF:194:MET:HG2	1.81	0.63
30:AG:39:ILE:HD12	30:AG:60:LEU:HD21	1.80	0.63
31:AH:41:MET:CG	31:AH:42:ARG:N	2.62	0.63
36:AP:47:ASP:HB3	36:AP:48:PRO:CA	2.29	0.63
40:AT:31:SER:HG	40:AT:43:GLN:N	1.95	0.63
42:AV:5:VAL:HG21	42:AV:35:LEU:HG	1.81	0.63
43:AW:64:MET:O	43:AW:65:LEU:HB3	1.98	0.63
57:AA:229:A:C5'	57:AA:230:U:H5'	2.29	0.63
57:AA:330:A:O2'	57:AA:331:A:H8	1.79	0.63
57:AA:613:G:H5'	57:AA:613:G:H8	1.63	0.63
57:AA:1173:G:H3'	57:AA:1174:A:H5'	1.81	0.63
3:Bd:35:ARG:C	3:Bd:37:PRO:HD3	2.23	0.63
18:Bs:29:ARG:O	18:Bs:31:ILE:HG22	1.99	0.63
18:Bs:36:ARG:HD3	22:Ba:1220:G:O3'	1.98	0.63
21:By:61:ARG:HE	21:By:81:ARG:HG2	1.63	0.63
22:Ba:295:C:H2'	22:Ba:296:U:C6	2.34	0.63
22:Ba:452:A:O2'	22:Ba:453:A:H8	1.80	0.63
22:Ba:736:C:H2'	22:Ba:737:A:C8	2.33	0.63
27:BD:155:LEU:HD23	27:BD:177:LEU:HD22	1.80	0.63
32:BI:69:LYS:HA	32:BI:136:VAL:HG11	1.81	0.63
38:BR:36:THR:HG22	57:BA:1278:A:H5"	1.81	0.63
40:BT:31:SER:HG	40:BT:43:GLN:N	1.96	0.63
46:BZ:128:VAL:HB	46:BZ:161:VAL:HG13	1.81	0.63
47:B0:73:GLY:O	47:B0:75:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:15:GLU:OE2	53:B6:44:ARG:NH2	2.32	0.63
57:BA:626:U:H5'	57:BA:627:A:H5'	1.79	0.63
3:Ad:119:GLN:HG3	3:Ad:123:HIS:CD2	2.33	0.63
7:Ah:118:VAL:O	7:Ah:119:LEU:HD23	1.99	0.63
9:Aj:33:GLN:O	9:Aj:75:ILE:HG12	1.99	0.63
9:Aj:36:GLY:HA3	22:Aa:1123:A:H4'	1.79	0.63
15:Ap:17:TYR:HE1	15:Ap:41:PRO:HG3	1.62	0.63
22:Aa:1027:C:H2'	22:Aa:1028:C:C5	2.34	0.63
28:AE:96:PHE:HA	28:AE:100:GLU:OE1	1.98	0.63
28:AE:165:VAL:HG11	57:AA:2679:A:H5'	1.79	0.63
30:AG:9:ARG:O	30:AG:11:TYR:N	2.30	0.63
30:AG:128:ARG:NE	57:AA:2302:G:H1'	2.14	0.63
32:AI:140:LEU:HD21	32:AI:142:VAL:HG23	1.80	0.63
36:AP:105:LEU:HD12	36:AP:105:LEU:N	2.13	0.63
37:AQ:110:THR:HG23	37:AQ:113:GLN:HB2	1.79	0.63
43:AW:58:ALA:HB3	43:AW:69:LEU:HD11	1.81	0.63
48:A1:45:ASN:HD21	48:A1:47:GLN:HE22	1.43	0.63
48:A1:93:GLU:O	48:A1:94:LEU:C	2.41	0.63
57:AA:70:G:H2'	57:AA:113:G:O2'	1.99	0.63
57:AA:581:C:H2'	57:AA:582:G:H8	1.64	0.63
5:Bf:97:PHE:O	17:Br:31:LEU:HD23	1.98	0.63
16:Bq:97:SER:C	16:Bq:98:LEU:HD12	2.24	0.63
22:Ba:1117:G:N2	22:Ba:1180:A:H1'	2.13	0.63
22:Ba:1288:A:H2'	22:Ba:1289:A:H8	1.63	0.63
27:BD:61:LEU:O	27:BD:63:ARG:NH1	2.32	0.63
32:BI:107:VAL:O	32:BI:109:ILE:HD11	1.99	0.63
32:BI:110:ASP:CB	32:BI:113:ARG:HB2	2.28	0.63
34:BN:15:LEU:HB2	34:BN:134:ARG:HB2	1.80	0.63
36:BP:62:LEU:HD23	36:BP:63:PRO:N	2.13	0.63
40:BT:3:ARG:C	40:BT:5:ALA:N	2.52	0.63
40:BT:62:THR:HG22	40:BT:75:ILE:HG12	1.81	0.63
40:BT:65:LYS:HZ2	40:BT:66:VAL:H	1.46	0.63
43:BW:73:ALA:HB3	43:BW:106:ILE:HD11	1.80	0.63
45:BY:88:LYS:O	45:BY:90:LEU:HD23	1.99	0.63
46:BZ:157:LEU:HD23	46:BZ:157:LEU:N	2.14	0.63
57:BA:535:C:O2'	57:BA:536:A:H5'	1.98	0.63
57:BA:1542:A:H5'	57:BA:1543:C:OP2	1.98	0.63
58:BB:55:U:O2'	58:BB:56:G:H5'	1.99	0.63
1:Ab:59:GLU:HG3	1:Ab:225:ALA:CB	2.28	0.63
3:Ad:43:HIS:C	3:Ad:45:GLN:H	2.06	0.63
6:Ag:102:ARG:NH1	22:Aa:939:G:H5"	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:102:ARG:HG2	6:Ag:106:GLN:HE21	1.64	0.63
12:Am:115:LYS:O	12:Am:116:THR:C	2.41	0.63
27:AD:58:HIS:HD2	27:AD:59:LYS:O	1.82	0.63
27:AD:139:GLY:H	27:AD:165:ILE:HB	1.63	0.63
36:AP:108:LYS:C	36:AP:110:TYR:H	2.05	0.63
40:AT:22:PHE:N	40:AT:22:PHE:CD2	2.67	0.63
41:AU:13:LYS:HD3	57:AA:1227:G:OP1	1.99	0.63
46:AZ:108:PRO:CB	46:AZ:144:LEU:HB2	2.28	0.63
57:AA:481:G:H1'	57:AA:506:G:H21	1.63	0.63
57:AA:1115:G:H2'	57:AA:1116:C:C6	2.33	0.63
57:AA:1747(A):G:H2'	57:AA:1748:G:C5'	2.17	0.63
57:AA:1876:A:H2'	57:AA:1877:A:C8	2.34	0.63
57:AA:2233:U:H2'	57:AA:2234:G:C8	2.33	0.63
4:Be:143:ARG:HG3	4:Be:143:ARG:HH11	1.64	0.63
7:Bh:103:VAL:HG21	7:Bh:110:ALA:HB2	1.81	0.63
9:Bj:78:ASN:O	9:Bj:82:ILE:HG12	1.99	0.63
21:By:38:ARG:HH11	21:By:38:ARG:HB3	1.64	0.63
22:Ba:484:G:H4'	22:Ba:485:G:O5'	1.99	0.63
22:Ba:1014:A:H2'	22:Ba:1015:A:C8	2.34	0.63
27:BD:223:GLY:HA2	27:BD:226:MET:HE3	1.81	0.63
28:BE:9:VAL:HG22	28:BE:25:VAL:HB	1.80	0.63
28:BE:132:HIS:O	57:BA:1658:C:OP1	2.15	0.63
29:BF:84:VAL:HG12	29:BF:85:GLY:H	1.62	0.63
30:BG:66:GLN:OE1	51:B4:1:MET:HE3	1.99	0.63
30:BG:172:LEU:HD23	30:BG:172:LEU:C	2.23	0.63
40:BT:65:LYS:HZ2	40:BT:65:LYS:CA	2.11	0.63
42:BV:21:ARG:N	42:BV:21:ARG:HD3	2.13	0.63
46:BZ:85:HIS:CE1	58:BB:75:G:H21	2.16	0.63
46:BZ:135:GLU:O	46:BZ:137:ILE:N	2.31	0.63
55:B8:50:LEU:HA	55:B8:53:PRO:HG3	1.81	0.63
57:BA:1174:A:OP1	57:BA:1175:U:H5"	1.99	0.63
57:BA:1681:G:H8	57:BA:1681:G:OP2	1.80	0.63
1:Ab:85:ALA:HB1	1:Ab:92:TYR:CD2	2.34	0.63
1:Ab:97:TRP:HH2	1:Ab:176:GLU:HG3	1.63	0.63
1:Ab:173:ALA:HA	1:Ab:176:GLU:HB2	1.81	0.63
9:Aj:78:ASN:O	9:Aj:82:ILE:HG12	1.98	0.63
12:Am:23:TYR:HB3	12:Am:67:GLU:HA	1.80	0.63
21:Ay:9:GLU:O	21:Ay:12:LEU:N	2.32	0.63
22:Aa:272:C:O2'	22:Aa:273:A:H5'	1.99	0.63
22:Aa:630:G:C3'	22:Aa:631:G:H5"	2.29	0.63
22:Aa:957:U:H2'	22:Aa:959:A:OP2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1129:C:H5"	22:Aa:1139:G:O6	1.99	0.63
28:AE:27:LEU:HD22	40:AT:1:MET:CE	2.29	0.63
30:AG:129:GLY:O	30:AG:130:ASN:CG	2.42	0.63
31:AH:70:THR:CG2	31:AH:74:ASN:HD21	2.09	0.63
40:AT:100:TYR:HD2	40:AT:103:ARG:NH2	1.97	0.63
42:AV:19:LYS:HZ3	42:AV:20:LEU:N	1.97	0.63
47:A0:27:GLU:OE2	57:AA:856:C:H4'	1.99	0.63
53:A6:5:VAL:HG22	53:A6:6:ARG:N	2.11	0.63
57:AA:1722:A:H2	57:AA:1740:G:H2'	1.64	0.63
57:AA:1847:A:H3'	57:AA:1848:A:H5'	1.81	0.63
3:Bd:162:LEU:HD11	3:Bd:181:MET:HG2	1.79	0.63
5:Bf:61:LEU:O	5:Bf:62:TRP:HB2	1.99	0.63
15:Bp:28:ARG:HG2	15:Bp:28:ARG:HH11	1.64	0.63
28:BE:101:ARG:HB3	28:BE:169:ASN:HD22	1.63	0.63
30:BG:107:LEU:HD13	30:BG:177:GLY:O	1.99	0.63
34:BN:34:LEU:O	34:BN:49:GLY:HA3	1.98	0.63
38:BR:97:VAL:O	38:BR:98:LEU:HD23	1.99	0.63
42:BV:52:VAL:O	42:BV:52:VAL:HG13	1.97	0.63
46:BZ:57:ILE:CG2	46:BZ:58:VAL:H	2.02	0.63
46:BZ:169:GLU:O	46:BZ:171:ILE:N	2.32	0.63
57:BA:581:C:H2'	57:BA:582:G:H8	1.61	0.63
57:BA:1173:G:H3'	57:BA:1174:A:C5'	2.29	0.63
5:Af:61:LEU:O	5:Af:62:TRP:HB2	1.99	0.62
7:Ah:120:THR:HG23	7:Ah:123:GLU:OE1	1.99	0.62
22:Aa:1278:U:H5"	22:Aa:1279:A:O4'	1.99	0.62
22:Aa:1514:C:H2'	22:Aa:1515:C:H6	1.64	0.62
27:AD:228:PRO:HD3	27:AD:235:GLY:CA	2.29	0.62
28:AE:1:MET:HE2	28:AE:1:MET:H2	1.64	0.62
32:AI:120:ILE:HG22	32:AI:121:LYS:H	1.63	0.62
32:AI:130:TYR:HD1	32:AI:131:LYS:H	1.46	0.62
36:AP:70:GLN:HB3	57:AA:2406:U:O4	1.98	0.62
36:AP:113:LYS:O	36:AP:115:LEU:HD22	1.99	0.62
40:AT:109:GLU:HG2	40:AT:112:ARG:NH2	2.14	0.62
42:AV:38:LEU:C	42:AV:38:LEU:HD23	2.24	0.62
44:AX:55:ASN:HB2	44:AX:80:ILE:HD12	1.79	0.62
53:A6:15:GLU:CD	53:A6:44:ARG:HH22	2.07	0.62
57:AA:287:C:H2'	57:AA:288:C:C6	2.34	0.62
1:Bb:132:LYS:HA	1:Bb:135:GLN:NE2	2.14	0.62
3:Bd:152:SER:O	3:Bd:155:LEU:HG	1.99	0.62
6:Bg:20:ASP:C	6:Bg:22:LEU:H	2.07	0.62
9:Bj:3:LYS:HB2	9:Bj:4:ILE:HD12	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bk:31:THR:OG1	10:Bk:42:TRP:HB3	1.99	0.62
15:Bp:43:LYS:HA	15:Bp:48:TRP:HB3	1.81	0.62
18:Bs:24:ALA:O	18:Bs:25:LYS:HB2	1.99	0.62
19:Bt:105:SER:HB3	22:Ba:191:G:C4	2.34	0.62
21:By:39:ILE:C	21:By:41:ALA:H	2.07	0.62
22:Ba:811:C:H4'	22:Ba:900:A:N6	2.14	0.62
27:BD:259:THR:HG21	57:BA:1803:A:O2'	1.99	0.62
29:BF:63:LYS:HE2	57:BA:675:A:OP1	1.99	0.62
30:BG:9:ARG:O	30:BG:13:GLU:HG2	1.98	0.62
30:BG:82:LEU:C	30:BG:83:ARG:HG3	2.23	0.62
30:BG:88:ILE:HG22	30:BG:89:GLY:N	2.14	0.62
39:BS:105:ALA:C	39:BS:107:GLU:H	2.07	0.62
40:BT:27:THR:HG23	40:BT:28:VAL:N	2.13	0.62
40:BT:48:ILE:HD12	40:BT:48:ILE:N	2.14	0.62
45:BY:68:HIS:CD2	57:BA:328:U:H4'	2.34	0.62
46:BZ:162:GLU:N	46:BZ:162:GLU:OE1	2.32	0.62
57:BA:139:G:C6	57:BA:140:G:H2'	2.34	0.62
57:BA:1464:C:O2'	57:BA:1528:A:C8	2.50	0.62
57:BA:2443:C:O2'	57:BA:2444:G:H5'	1.99	0.62
57:BA:2790:A:H2'	57:BA:2790:A:N3	2.14	0.62
1:Ab:97:TRP:HH2	1:Ab:176:GLU:CG	2.12	0.62
16:Aq:9:VAL:HG12	16:Aq:56:VAL:HG22	1.81	0.62
22:Aa:390:C:H2'	22:Aa:391:G:C8	2.34	0.62
22:Aa:1296:C:H5'	22:Aa:1297:C:OP2	1.98	0.62
28:AE:77:ILE:HG22	28:AE:78:LEU:HG	1.81	0.62
30:AG:32:PRO:HB2	30:AG:172:LEU:CD1	2.29	0.62
36:AP:16:ARG:HH11	36:AP:16:ARG:CA	2.12	0.62
36:AP:80:TYR:CE1	36:AP:111:ARG:HD3	2.34	0.62
40:AT:27:THR:OG1	40:AT:28:VAL:N	2.30	0.62
55:A8:6:THR:HG22	55:A8:63:PRO:HD3	1.81	0.62
3:Bd:72:GLU:HG2	22:Ba:545:C:H5"	1.81	0.62
10:Bk:34:ASP:HB2	10:Bk:35:PRO:CD	2.29	0.62
22:Ba:1125:U:H5"	22:Ba:1126:U:C5	2.34	0.62
30:BG:42:GLY:O	30:BG:44:GLY:N	2.32	0.62
43:BW:82:LEU:HB3	43:BW:98:LYS:HB2	1.81	0.62
57:BA:654(S):G:H3'	57:BA:654(T):C:H5"	1.81	0.62
58:BB:71:C:H2'	58:BB:72:G:H8	1.64	0.62
1:Ab:75:LYS:HA	1:Ab:78:GLN:NE2	2.12	0.62
2:Ac:192:THR:O	22:Aa:1206:G:H4'	2.00	0.62
8:Ai:7:THR:H	8:Ai:83:ARG:HD2	1.64	0.62
9:Aj:3:LYS:NZ	9:Aj:76:ASN:HA	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:42:THR:H	22:Aa:1151:A:C5'	2.13	0.62
19:At:10:LEU:HD12	19:At:11:SER:N	2.14	0.62
31:AH:88:LEU:HD22	31:AH:88:LEU:H	1.64	0.62
35:AO:22:ILE:HD12	57:AA:1952:A:C5	2.33	0.62
52:A5:2:ALA:N	57:AA:2014:A:HO2'	1.97	0.62
57:AA:229:A:H5'	57:AA:230:U:H5'	1.81	0.62
57:AA:1464:C:H2'	57:AA:1465:G:H8	1.65	0.62
1:Bb:59:GLU:HG3	1:Bb:225:ALA:CB	2.28	0.62
3:Bd:160:GLN:O	3:Bd:163:GLU:HB3	1.99	0.62
6:Bg:73:MET:HA	6:Bg:91:VAL:HG23	1.80	0.62
10:Bk:46:GLY:HA3	22:Ba:689:C:P	2.39	0.62
13:Bn:25:VAL:HG23	13:Bn:38:GLY:O	2.00	0.62
22:Ba:639:G:O2'	22:Ba:640:A:H5'	1.98	0.62
22:Ba:1442(A):G:C8	40:BT:118:ARG:HD2	2.34	0.62
26:BC:185:LYS:HE3	26:BC:185:LYS:N	2.15	0.62
30:BG:77:ILE:HG23	30:BG:80:PHE:H	1.63	0.62
36:BP:65:ARG:NH1	55:B8:15:LYS:HB2	2.14	0.62
40:BT:116:ALA:HB1	40:BT:121:ILE:HD11	1.82	0.62
44:BX:29:TRP:CZ3	44:BX:78:LYS:HB3	2.34	0.62
52:B5:2:ALA:N	57:BA:2014:A:HO2'	1.97	0.62
52:B5:46:CYS:SG	52:B5:47:PRO:CD	2.87	0.62
57:BA:271(M):G:C2'	57:BA:271(N):U:H5"	2.29	0.62
57:BA:2477:C:H5'	57:BA:2477:C:C6	2.34	0.62
57:BA:2544:G:H8	57:BA:2544:G:O5'	1.82	0.62
58:BB:87:G:C3'	58:BB:88:C:H5"	2.29	0.62
2:Ac:97:LYS:O	2:Ac:99:VAL:HG13	2.00	0.62
5:Af:7:ASN:O	5:Af:8:ILE:HG13	2.00	0.62
8:Ai:63:ILE:CD1	8:Ai:81:ILE:HD11	2.28	0.62
10:Ak:34:ASP:HB2	10:Ak:35:PRO:CD	2.30	0.62
17:Ar:36:ASN:HB2	17:Ar:40:LEU:CD1	2.29	0.62
22:Aa:1458:G:O2'	22:Aa:1459:C:H5'	2.00	0.62
28:AE:48:GLN:NE2	28:AE:78:LEU:HD22	2.14	0.62
29:AF:8:GLN:CB	29:AF:126:VAL:HA	2.30	0.62
31:AH:68:THR:C	31:AH:70:THR:N	2.55	0.62
36:AP:46:LYS:HG2	36:AP:52:GLU:CD	2.24	0.62
38:AR:10:LEU:HB3	38:AR:17:ARG:HD3	1.80	0.62
45:AY:100:ALA:O	45:AY:101:LYS:HB2	2.00	0.62
46:AZ:150:LEU:HG	46:AZ:171:ILE:HD11	1.82	0.62
51:A4:14:ILE:HD12	51:A4:14:ILE:N	2.14	0.62
57:AA:1590:U:C3'	57:AA:1591:G:H5"	2.29	0.62
57:AA:1957:C:H2'	57:AA:1958:C:H6	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:126:SER:O	8:Bi:128:ARG:HD3	1.99	0.62
9:Bj:51:ARG:CG	9:Bj:60:ARG:HA	2.25	0.62
15:Bp:20:VAL:HG21	15:Bp:32:TYR:HB2	1.79	0.62
17:Br:43:PHE:C	17:Br:51:LEU:HD12	2.24	0.62
18:Bs:20:LEU:HA	18:Bs:23:ASN:HD22	1.64	0.62
22:Ba:84:U:H2'	22:Ba:88:A:H5'	1.80	0.62
26:BC:216:THR:HB	26:BC:222:SER:HA	1.79	0.62
34:BN:46:VAL:O	34:BN:47:ALA:HB3	1.98	0.62
37:BQ:46:GLN:HE21	57:BA:2485:G:H5"	1.64	0.62
43:BW:5:ALA:O	43:BW:6:ILE:HB	1.99	0.62
48:B1:45:ASN:HD21	48:B1:47:GLN:NE2	1.98	0.62
57:BA:1688:U:H1'	57:BA:1701:A:C6	2.35	0.62
9:Aj:32:ALA:HB3	9:Aj:76:ASN:HB3	1.81	0.62
19:At:12:ALA:O	19:At:15:ARG:HB2	1.99	0.62
25:Aw:59:A:H2'	25:Aw:60:U:H5'	1.82	0.62
26:AC:185:LYS:HE3	26:AC:185:LYS:N	2.15	0.62
28:AE:77:ILE:HG22	28:AE:78:LEU:N	2.09	0.62
29:AF:84:VAL:CG1	29:AF:85:GLY:N	2.61	0.62
29:AF:132:VAL:HG22	29:AF:133:ASN:ND2	2.14	0.62
30:AG:62:LEU:C	30:AG:64:THR:H	2.07	0.62
36:AP:18:ARG:HH11	36:AP:18:ARG:C	2.07	0.62
36:AP:62:LEU:HD23	36:AP:63:PRO:N	2.14	0.62
40:AT:3:ARG:NE	57:AA:2876:G:H4'	2.14	0.62
57:AA:197:A:C8	57:AA:197:A:H5'	2.34	0.62
57:AA:270:A:O2'	57:AA:271:A:H5'	1.99	0.62
57:AA:902:C:H2'	57:AA:903:C:C6	2.34	0.62
57:AA:1484:G:N2	57:AA:1505:C:H42	1.97	0.62
57:AA:1991:U:C2'	57:AA:1992:G:H5"	2.29	0.62
57:AA:2443:C:O2'	57:AA:2444:G:H5'	2.00	0.62
2:Bc:15:THR:CG2	2:Bc:16:ARG:HH12	2.12	0.62
3:Bd:26:CYS:SG	59:Bd:302:ZN:ZN	1.87	0.62
3:Bd:43:HIS:C	3:Bd:45:GLN:H	2.07	0.62
4:Be:135:THR:O	4:Be:138:ALA:HB3	1.99	0.62
6:Bg:113:GLU:HB2	6:Bg:119:ARG:CG	2.21	0.62
10:Bk:44:SER:H	10:Bk:47:VAL:CG2	2.12	0.62
13:Bn:51:GLY:C	13:Bn:53:LEU:H	2.08	0.62
15:Bp:4:ILE:HG23	15:Bp:36:ILE:HD11	1.82	0.62
16:Bq:9:VAL:HG12	16:Bq:56:VAL:HG22	1.81	0.62
21:By:47:MET:HB2	21:By:50:CYS:SG	2.40	0.62
22:Ba:392:G:H2'	22:Ba:393:A:C8	2.34	0.62
22:Ba:630:G:C3'	22:Ba:631:G:H5"	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:859:A:O2'	22:Ba:860:A:H5'	2.00	0.62
29:BF:1:MET:O	29:BF:3:GLU:HG2	2.00	0.62
32:BI:118:LYS:NZ	32:BI:119:PRO:O	2.32	0.62
33:BJ:39:ALA:C	33:BJ:43:ALA:HB3	2.24	0.62
34:BN:57:ALA:O	34:BN:58:ASP:O	2.18	0.62
36:BP:146:VAL:HG13	36:BP:147:LEU:N	2.13	0.62
39:BS:74:ALA:HB1	39:BS:103:GLU:CB	2.29	0.62
42:BV:19:LYS:HE2	42:BV:19:LYS:HA	1.82	0.62
49:B2:53:LEU:O	49:B2:57:ILE:HG12	1.99	0.62
57:BA:287:C:H2'	57:BA:288:C:C6	2.34	0.62
9:Aj:49:VAL:O	9:Aj:60:ARG:HB2	1.99	0.62
18:As:29:ARG:O	18:As:31:ILE:HG22	2.00	0.62
22:Aa:484:G:H4'	22:Aa:485:G:O5'	1.99	0.62
27:AD:129:ASN:O	27:AD:193:VAL:HG12	1.99	0.62
27:AD:244:ARG:HA	57:AA:1902:C:H4'	1.81	0.62
28:AE:64:LYS:HB2	57:AA:2786:U:H4'	1.82	0.62
29:AF:40:GLN:HE22	29:AF:184:TYR:H	1.47	0.62
29:AF:202:PHE:O	29:AF:206:ILE:HG12	1.99	0.62
31:AH:46:GLU:O	31:AH:49:VAL:O	2.18	0.62
37:AQ:28:ALA:O	37:AQ:29:PHE:CD1	2.52	0.62
39:AS:74:ALA:HB1	39:AS:103:GLU:CB	2.28	0.62
45:AY:7:VAL:HG21	45:AY:8:LYS:HZ2	1.64	0.62
57:AA:1509(B):A:H2'	57:AA:1510:G:C8	2.34	0.62
2:Bc:70:VAL:O	2:Bc:105:GLU:HA	2.00	0.62
6:Bg:102:ARG:HG2	6:Bg:106:GLN:HE21	1.64	0.62
8:Bi:7:THR:H	8:Bi:83:ARG:HD2	1.63	0.62
9:Bj:6:ILE:HG22	9:Bj:98:ILE:CG1	2.29	0.62
10:Bk:32:ILE:HD13	10:Bk:72:ALA:HB2	1.82	0.62
16:Bq:91:ARG:HA	16:Bq:94:ASN:HD22	1.64	0.62
19:Bt:89:ARG:NH2	19:Bt:104:LEU:HD21	2.14	0.62
21:By:44:LEU:H	21:By:51:TYR:HA	1.65	0.62
22:Ba:359:U:H2'	22:Ba:360:A:H8	1.61	0.62
22:Ba:1003:G:C2	22:Ba:1004:A:H1'	2.35	0.62
22:Ba:1027:C:H2'	22:Ba:1028:C:C5	2.34	0.62
26:BC:54:ARG:HG3	26:BC:57:GLN:OE1	2.00	0.62
36:BP:70:GLN:HB3	57:BA:2406:U:O4	1.99	0.62
44:BX:8:ILE:N	44:BX:8:ILE:HD12	2.13	0.62
44:BX:44:GLU:CG	44:BX:51:VAL:HG23	2.30	0.62
45:BY:42:VAL:HG12	45:BY:65:ALA:CB	2.27	0.62
45:BY:68:HIS:HB3	45:BY:71:LYS:HG2	1.82	0.62
57:BA:364:C:H2'	57:BA:365:C:C5'	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1188:U:C2'	57:BA:1189:A:H5'	2.30	0.62
2:Ac:16:ARG:NH1	2:Ac:16:ARG:HB2	2.15	0.62
7:Ah:101:PRO:HG2	7:Ah:133:LEU:HD11	1.81	0.62
17:Ar:50:ILE:HD12	17:Ar:70:ILE:HD13	1.81	0.62
22:Aa:1343:G:H2'	22:Aa:1344:C:C6	2.35	0.62
26:AC:7:ARG:HD2	26:AC:35:THR:O	2.00	0.62
28:AE:68:ALA:O	28:AE:70:ALA:N	2.27	0.62
30:AG:131:TYR:H	30:AG:159:VAL:CG1	2.11	0.62
32:AI:107:VAL:O	32:AI:109:ILE:HD11	2.00	0.62
36:AP:115:LEU:HA	36:AP:134:ALA:HB2	1.80	0.62
50:A3:8:LEU:CD1	50:A3:31:LEU:HA	2.29	0.62
54:A7:22:MET:O	54:A7:28:ARG:NH1	2.30	0.62
57:AA:234:C:H2'	57:AA:235:U:H6	1.63	0.62
57:AA:587:C:O2'	57:AA:588:U:OP2	2.17	0.62
57:AA:863:A:O2'	57:AA:864:G:H5'	2.00	0.62
57:AA:1019:U:O2'	57:AA:1021:A:H2	1.73	0.62
57:AA:1286:A:C2'	57:AA:1288:U:OP2	2.47	0.62
1:Bb:97:TRP:HH2	1:Bb:176:GLU:CG	2.11	0.62
1:Bb:101:MET:HB2	1:Bb:102:LEU:HD12	1.81	0.62
1:Bb:111:ARG:NH1	22:Ba:1104:G:H4'	2.14	0.62
1:Bb:172:ILE:HD12	1:Bb:172:ILE:N	2.05	0.62
3:Bd:28:SER:HB3	3:Bd:29:PRO:HD2	1.81	0.62
6:Bg:7:ALA:CB	22:Ba:1377:A:H2'	2.24	0.62
12:Bm:107:ALA:C	12:Bm:109:THR:H	2.07	0.62
12:Bm:108:ARG:NH2	12:Bm:114:ARG:CG	2.55	0.62
14:Bo:25:THR:HG21	14:Bo:70:LEU:HB2	1.81	0.62
22:Ba:107:G:C2'	22:Ba:108:G:H5'	2.29	0.62
22:Ba:1062:U:H2'	22:Ba:1063:C:C6	2.35	0.62
22:Ba:1278:U:H5"	22:Ba:1279:A:O4'	2.00	0.62
32:BI:27:ARG:HH11	32:BI:27:ARG:HG3	1.65	0.62
32:BI:84:GLY:HA3	32:BI:89:TYR:OH	2.00	0.62
32:BI:94:ALA:CB	32:BI:111:PRO:HA	2.30	0.62
34:BN:75:TYR:HA	34:BN:81:GLY:O	2.00	0.62
38:BR:98:LEU:HB2	38:BR:113:LEU:CD2	2.29	0.62
46:BZ:25:PRO:O	46:BZ:85:HIS:HA	2.00	0.62
52:B5:54:GLY:H	52:B5:55:ARG:HH21	1.45	0.62
57:BA:1015:G:O2'	57:BA:1016:G:H5'	2.00	0.62
57:BA:1173:G:H3'	57:BA:1174:A:H5'	1.81	0.62
57:BA:1177:A:H5'	57:BA:1178:C:C6	2.35	0.62
57:BA:1847:A:H3'	57:BA:1848:A:C5'	2.30	0.62
57:BA:1957:C:H2'	57:BA:1958:C:H6	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:196:LEU:HD13	1:Ab:197:VAL:HG23	1.80	0.62
3:Ad:79:PHE:CD2	3:Ad:79:PHE:C	2.77	0.62
3:Ad:114:ARG:HH11	3:Ad:114:ARG:HG3	1.65	0.62
11:Al:41:ARG:HB3	11:Al:41:ARG:NH1	2.09	0.62
21:Ay:38:ARG:HG2	21:Ay:51:TYR:OH	1.99	0.62
22:Aa:859:A:O2'	22:Aa:860:A:H5'	1.99	0.62
22:Aa:1275:A:H2'	22:Aa:1276:G:H8	1.63	0.62
28:AE:31:CYS:HB3	28:AE:49:LEU:HB2	1.81	0.62
29:AF:176:LEU:HD12	29:AF:177:ALA:N	2.14	0.62
31:AH:41:MET:HG3	31:AH:42:ARG:N	2.15	0.62
42:AV:15:GLU:HB3	42:AV:16:PRO:HD2	1.80	0.62
42:AV:49:THR:HB	42:AV:50:PRO:CD	2.30	0.62
53:A6:48:VAL:O	53:A6:49:HIS:HB2	1.98	0.62
55:A8:59:LYS:CB	55:A8:59:LYS:HZ3	2.13	0.62
57:AA:39:C:O2'	57:AA:40:C:H5'	1.99	0.62
57:AA:271(M):G:O2'	57:AA:271(O):C:H5'	2.00	0.62
57:AA:626:U:H5'	57:AA:627:A:H5'	1.81	0.62
57:AA:1358:G:O2'	57:AA:1359:A:H5"	1.99	0.62
57:AA:2521:C:H42	57:AA:2544:G:H1	1.47	0.62
3:Bd:114:ARG:HG3	3:Bd:114:ARG:HH11	1.65	0.62
5:Bf:60:PHE:O	5:Bf:61:LEU:HD12	1.99	0.62
12:Bm:65:LYS:HA	12:Bm:66:LEU:CD2	2.28	0.62
12:Bm:65:LYS:CE	12:Bm:70:LEU:N	2.56	0.62
22:Ba:777:A:H2'	22:Ba:778:G:C8	2.34	0.62
22:Ba:1296:C:H5'	22:Ba:1297:C:OP2	2.00	0.62
26:BC:7:ARG:HD2	26:BC:35:THR:O	1.99	0.62
27:BD:183:ARG:HH11	27:BD:183:ARG:HG2	1.64	0.62
29:BF:21:ALA:HB3	29:BF:23:ASP:OD1	2.00	0.62
30:BG:41:GLN:OE1	30:BG:153:ARG:HG3	2.00	0.62
30:BG:154:GLY:O	30:BG:155:MET:HB3	1.98	0.62
33:BJ:84:GLU:C	33:BJ:86:PRO:N	2.57	0.62
46:BZ:23:LYS:HB3	46:BZ:38:TYR:CD1	2.34	0.62
48:B1:46:LEU:HB3	48:B1:63:ALA:HA	1.82	0.62
57:BA:438:G:O2'	57:BA:440:G:H5'	1.99	0.62
57:BA:2317:C:O2'	57:BA:2318:G:H5'	2.00	0.62
57:BA:2537:U:H2'	57:BA:2538:C:H6	1.64	0.62
7:Ah:103:VAL:HG21	7:Ah:110:ALA:HB2	1.82	0.62
9:Aj:84:GLN:O	9:Aj:88:LEU:HB3	1.99	0.62
9:Aj:96:ILE:HD13	9:Aj:96:ILE:N	2.15	0.62
18:As:17:GLU:O	18:As:21:GLU:HG2	1.99	0.62
22:Aa:336:C:H2'	22:Aa:337:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:359:U:H2'	22:Aa:360:A:H8	1.60	0.62
26:AC:47:LYS:HD3	57:AA:2178:C:H4'	1.82	0.62
26:AC:54:ARG:HG3	26:AC:57:GLN:OE1	1.99	0.62
26:AC:216:THR:HB	26:AC:222:SER:HA	1.81	0.62
28:AE:132:HIS:O	57:AA:1658:C:OP1	2.18	0.62
30:AG:138:GLN:OE1	30:AG:153:ARG:HG2	1.99	0.62
34:AN:62:VAL:HG22	34:AN:66:LYS:HB2	1.80	0.62
34:AN:89:LYS:HA	34:AN:92:ALA:HB3	1.82	0.62
36:AP:18:ARG:HH11	36:AP:18:ARG:CB	2.12	0.62
40:AT:116:ALA:HB1	40:AT:121:ILE:HD11	1.80	0.62
47:A0:26:TYR:O	47:A0:67:VAL:HB	2.00	0.62
49:A2:51:ARG:HD3	49:A2:55:ARG:NH2	2.12	0.62
57:AA:271(X):G:H2'	57:AA:271(Y):U:H5"	1.82	0.62
57:AA:1146:C:O2'	57:AA:1147:C:H5'	1.99	0.62
57:AA:1174:A:OP1	57:AA:1175:U:H5"	1.99	0.62
57:AA:1316:U:H2'	57:AA:1317:A:H8	1.64	0.62
2:Bc:189:ALA:C	2:Bc:190:ARG:HG3	2.24	0.62
4:Be:72:GLN:HE22	4:Be:144:THR:HG22	1.64	0.62
6:Bg:9:VAL:HG22	6:Bg:94:ARG:NH1	2.14	0.62
9:Bj:82:ILE:HG22	9:Bj:86:MET:SD	2.40	0.62
22:Ba:630:G:H2'	22:Ba:631:G:H5"	1.80	0.62
22:Ba:1275:A:H2'	22:Ba:1276:G:H8	1.63	0.62
27:BD:106:ILE:O	27:BD:106:ILE:HG23	2.00	0.62
28:BE:36:ARG:HH22	28:BE:88:GLY:HA2	1.64	0.62
36:BP:105:LEU:HD12	36:BP:105:LEU:N	2.14	0.62
40:BT:27:THR:O	40:BT:28:VAL:HB	1.99	0.62
45:BY:49:VAL:HA	57:BA:483:A:H4'	1.82	0.62
46:BZ:19:ARG:HG2	46:BZ:19:ARG:NH1	2.15	0.62
52:B5:51:TYR:C	52:B5:53:ALA:H	2.08	0.62
57:BA:234:C:H2'	57:BA:235:U:H6	1.64	0.62
57:BA:860:U:O2'	57:BA:861:A:H5'	1.99	0.62
57:BA:2789:C:H1'	57:BA:2892:A:H2	1.65	0.62
5:Af:97:PHE:O	17:Ar:31:LEU:HD23	1.99	0.62
8:Ai:65:VAL:HG21	8:Ai:73:GLN:HB3	1.82	0.62
12:Am:91:ARG:HD2	18:As:81:ARG:NH2	1.95	0.62
12:Am:107:ALA:C	12:Am:109:THR:H	2.08	0.62
14:Ao:43:LEU:HD11	14:Ao:53:HIS:HA	1.82	0.62
15:Ap:28:ARG:HG2	15:Ap:29:ASP:OD2	2.00	0.62
17:Ar:36:ASN:HB3	17:Ar:39:VAL:HG21	1.82	0.62
18:As:16:LEU:O	18:As:20:LEU:N	2.24	0.62
22:Aa:777:A:H2'	22:Aa:778:G:H8	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:832:C:C4	22:Aa:855:G:N1	2.68	0.62
25:Aw:42:G:H2'	25:Aw:43:A:H8	1.65	0.62
28:AE:195:LEU:HD12	28:AE:196:VAL:N	2.15	0.62
32:AI:129:THR:HG23	32:AI:136:VAL:O	2.00	0.62
36:AP:10:PRO:O	36:AP:11:GLY:C	2.42	0.62
38:AR:7:GLY:C	38:AR:8:ARG:NE	2.58	0.62
38:AR:36:THR:HG22	57:AA:1278:A:H5"	1.81	0.62
42:AV:18:LEU:CD1	42:AV:19:LYS:H	2.13	0.62
43:AW:6:ILE:CG1	43:AW:104:THR:HG23	2.30	0.62
55:A8:30:ARG:CZ	57:AA:2419:U:O4	2.48	0.62
57:AA:1015:G:O2'	57:AA:1016:G:H5'	2.00	0.62
57:AA:1173:G:H3'	57:AA:1174:A:C5'	2.29	0.62
57:AA:2537:U:H2'	57:AA:2538:C:H6	1.62	0.62
4:Be:93:PRO:CG	7:Bh:105:ARG:HH21	2.12	0.62
9:Bj:34:VAL:HG22	9:Bj:74:ILE:HG22	1.81	0.62
9:Bj:96:ILE:N	9:Bj:96:ILE:HD13	2.15	0.62
12:Bm:115:LYS:CB	22:Ba:1227:A:O2'	2.45	0.62
22:Ba:15:G:H2'	22:Ba:16:A:C8	2.34	0.62
22:Ba:148:G:H2'	22:Ba:149:A:C8	2.35	0.62
22:Ba:1315:U:O2'	22:Ba:1360:A:H1'	1.99	0.62
24:Bv:29:G:O2'	24:Bv:30:G:H5'	2.00	0.62
25:Bw:41:C:H2'	25:Bw:42:G:C8	2.35	0.62
28:BE:95:ILE:N	28:BE:95:ILE:HD13	2.14	0.62
29:BF:7:TYR:HD2	29:BF:16:GLY:H	1.47	0.62
29:BF:108:LYS:HD2	29:BF:112:MET:CE	2.29	0.62
30:BG:27:ASN:C	30:BG:29:TRP:H	2.08	0.62
31:BH:44:VAL:HG12	31:BH:45:VAL:H	1.64	0.62
31:BH:88:LEU:H	31:BH:88:LEU:HD22	1.64	0.62
32:BI:48:GLU:OE1	32:BI:52:ARG:HD3	2.00	0.62
34:BN:128:HIS:HE1	34:BN:134:ARG:NH1	1.96	0.62
35:BO:47:ILE:HG12	35:BO:48:PRO:HD2	1.81	0.62
36:BP:95:VAL:HG22	36:BP:125:VAL:HA	1.81	0.62
39:BS:30:ARG:HH22	39:BS:62:LYS:CD	2.12	0.62
45:BY:37:VAL:O	45:BY:38:ILE:HB	2.00	0.62
57:BA:271(X):G:H2'	57:BA:271(Y):U:H5"	1.80	0.62
57:BA:286:C:H2'	57:BA:287:C:H6	1.65	0.62
57:BA:612:C:C3'	57:BA:613:G:H5"	2.29	0.62
57:BA:902:C:H2'	57:BA:903:C:C6	2.33	0.62
57:BA:1358:G:O2'	57:BA:1359:A:H5"	2.00	0.62
2:Ac:32:LEU:O	2:Ac:36:ASP:HB2	2.00	0.61
4:Ae:7:GLU:HB3	4:Ae:112:LEU:HD13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:9:VAL:HG22	6:Ag:94:ARG:NH1	2.15	0.61
9:Aj:6:ILE:HG22	9:Aj:98:ILE:CG1	2.29	0.61
12:Am:68:GLY:C	12:Am:71:ARG:HB2	2.25	0.61
14:Ao:55:GLY:HA2	14:Ao:58:MET:HE3	1.81	0.61
21:Ay:15:TRP:CH2	21:Ay:23:ARG:HA	2.35	0.61
22:Aa:287:U:O2'	22:Aa:288:A:H5'	1.99	0.61
22:Aa:575:G:OP1	22:Aa:575:G:H4'	1.98	0.61
28:AE:120:TRP:CE3	28:AE:155:LYS:HD3	2.35	0.61
29:AF:89:VAL:O	29:AF:91:GLY:N	2.30	0.61
30:AG:95:ARG:NE	58:AB:45:A:C8	2.67	0.61
30:AG:126:ASP:O	30:AG:128:ARG:N	2.27	0.61
31:AH:43:VAL:HG12	31:AH:52:VAL:HA	1.80	0.61
36:AP:101:VAL:HG12	36:AP:106:LEU:HB3	1.81	0.61
37:AQ:12:GLN:CG	37:AQ:73:PRO:HD2	2.28	0.61
37:AQ:47:ILE:HG22	37:AQ:48:GLU:N	2.14	0.61
46:AZ:104:PHE:HB3	46:AZ:141:VAL:CG2	2.29	0.61
50:A3:38:GLU:OE2	50:A3:38:GLU:HA	2.00	0.61
57:AA:80:G:O2'	57:AA:81:G:H5'	2.00	0.61
57:AA:203:C:C3'	57:AA:204:A:H5"	2.29	0.61
57:AA:528:A:H2	57:AA:2043:C:C4'	2.10	0.61
57:AA:1485:G:H2'	57:AA:1486:A:C8	2.34	0.61
57:AA:2201:C:O2'	57:AA:2202:C:H5'	2.00	0.61
4:Be:31:LEU:HD23	4:Be:45:PHE:HB2	1.81	0.61
4:Be:60:TYR:HE1	4:Be:64:ARG:HH21	1.48	0.61
6:Bg:12:LEU:HD11	6:Bg:28:ASN:ND2	2.14	0.61
9:Bj:13:HIS:CD2	22:Ba:1152:A:H5"	2.35	0.61
9:Bj:32:ALA:HB3	9:Bj:76:ASN:HB3	1.81	0.61
13:Bn:35:ARG:HG2	22:Ba:1358:U:OP1	1.99	0.61
16:Bq:70:ARG:HG2	22:Ba:235:C:H5'	1.81	0.61
24:Bv:5:G:O2'	24:Bv:6:G:H5'	2.00	0.61
27:BD:35:LYS:NZ	27:BD:36:PRO:CD	2.63	0.61
28:BE:33:VAL:HG12	28:BE:69:LYS:HZ1	1.63	0.61
28:BE:52:LEU:O	28:BE:74:PRO:HA	2.00	0.61
28:BE:61:ARG:HD2	57:BA:2632:A:H2	1.65	0.61
29:BF:63:LYS:NZ	29:BF:67:GLN:HB2	2.14	0.61
29:BF:89:VAL:HG21	57:BA:586:A:H5'	1.82	0.61
32:BI:82:ARG:HG2	32:BI:145:VAL:CG1	2.29	0.61
33:BJ:32:LEU:O	33:BJ:33:PRO:CB	2.48	0.61
57:BA:39:C:O2'	57:BA:40:C:H5'	1.99	0.61
57:BA:792:G:H5"	57:BA:793:A:H5'	1.80	0.61
57:BA:2199:A:H5'	57:BA:2200:C:OP2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:47:LEU:HD21	2:Ac:68:VAL:CG1	2.30	0.61
3:Ad:79:PHE:HD2	3:Ad:79:PHE:C	2.06	0.61
3:Ad:124:GLY:HA3	3:Ad:132:ARG:NH1	2.15	0.61
3:Ad:139:ARG:HG2	3:Ad:139:ARG:HH11	1.64	0.61
8:Ai:9:ARG:HG2	8:Ai:14:VAL:HG22	1.81	0.61
11:Al:27:LEU:HG	11:Al:62:SER:OG	2.00	0.61
13:An:35:ARG:HG2	22:Aa:1358:U:OP1	2.01	0.61
21:Ay:43:LYS:CB	21:Ay:51:TYR:CD1	2.77	0.61
22:Aa:677:U:H3	22:Aa:713:G:H22	1.48	0.61
27:AD:35:LYS:HZ2	27:AD:35:LYS:CB	2.09	0.61
29:AF:188:ARG:HA	36:AP:7:ARG:HD3	1.82	0.61
30:AG:28:VAL:C	30:AG:30:GLU:H	2.07	0.61
30:AG:86:MET:N	30:AG:87:PRO:CD	2.64	0.61
31:AH:13:LYS:O	31:AH:15:VAL:N	2.32	0.61
32:AI:98:ALA:HB1	32:AI:109:ILE:HB	1.82	0.61
36:AP:7:ARG:NH1	36:AP:7:ARG:HB3	2.15	0.61
40:AT:27:THR:O	40:AT:28:VAL:HB	1.99	0.61
52:A5:3:LYS:HB3	57:AA:747:U:C5	2.35	0.61
52:A5:54:GLY:H	52:A5:55:ARG:HH21	1.48	0.61
55:A8:30:ARG:HA	55:A8:30:ARG:NE	2.16	0.61
57:AA:364:C:H2'	57:AA:365:C:C5'	2.29	0.61
57:AA:1639:U:H2'	57:AA:1640:C:H5"	1.81	0.61
1:Bb:85:ALA:HB1	1:Bb:92:TYR:CD2	2.36	0.61
1:Bb:217:ARG:HA	1:Bb:220:ASP:HB2	1.82	0.61
7:Bh:118:VAL:C	7:Bh:119:LEU:HD23	2.25	0.61
9:Bj:3:LYS:NZ	9:Bj:76:ASN:HA	2.14	0.61
13:Bn:21:TYR:CE1	22:Ba:981:U:H5'	2.36	0.61
19:Bt:14:LYS:O	19:Bt:18:GLN:HB2	1.99	0.61
21:By:43:LYS:HA	21:By:51:TYR:HB2	1.82	0.61
22:Ba:957:U:H2'	22:Ba:959:A:OP2	2.00	0.61
22:Ba:1281:U:H5'	22:Ba:1282:C:C5	2.35	0.61
27:BD:240:ALA:HA	57:BA:1971:A:C2	2.35	0.61
28:BE:37:ARG:O	28:BE:45:THR:HA	2.00	0.61
29:BF:8:GLN:CB	29:BF:126:VAL:HA	2.30	0.61
32:BI:93:THR:O	32:BI:97:ILE:N	2.32	0.61
36:BP:83:VAL:HG23	36:BP:105:LEU:HD13	1.81	0.61
40:BT:125:ARG:HA	40:BT:125:ARG:HH11	1.64	0.61
55:B8:30:ARG:CZ	57:BA:2419:U:O4	2.48	0.61
57:BA:157:U:H5'	57:BA:158:U:OP2	2.00	0.61
57:BA:1280:G:C2'	57:BA:1281:G:H5"	2.31	0.61
57:BA:1541:G:H5"	57:BA:1542:A:O5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1711:C:O2'	57:BA:1712:C:H5'	2.00	0.61
6:Ag:137:LYS:O	6:Ag:141:VAL:HG23	1.98	0.61
7:Ah:120:THR:OG1	7:Ah:123:GLU:HG3	2.01	0.61
9:Aj:81:THR:C	9:Aj:83:GLU:H	2.07	0.61
10:Ak:44:SER:H	10:Ak:47:VAL:CG2	2.13	0.61
11:Al:41:ARG:HH11	11:Al:41:ARG:CB	2.07	0.61
17:Ar:50:ILE:HD11	17:Ar:70:ILE:HG21	1.82	0.61
18:As:42:PRO:CG	51:A4:50:VAL:HG21	2.28	0.61
19:At:14:LYS:O	19:At:18:GLN:HB2	2.00	0.61
22:Aa:539:A:H2'	22:Aa:540:G:C8	2.34	0.61
22:Aa:1125:U:H5"	22:Aa:1126:U:C5	2.34	0.61
22:Aa:1226:C:H4'	22:Aa:1227:A:OP1	2.00	0.61
36:AP:46:LYS:HG2	36:AP:52:GLU:OE2	2.00	0.61
36:AP:148:LEU:O	36:AP:149:GLU:HB2	2.01	0.61
37:AQ:35:VAL:HG11	37:AQ:130:LYS:HE2	1.80	0.61
46:AZ:51:ALA:HB1	46:AZ:57:ILE:HD11	1.82	0.61
52:A5:40:LYS:HE2	52:A5:46:CYS:HB3	1.83	0.61
55:A8:29:LYS:O	55:A8:29:LYS:HG3	1.99	0.61
57:AA:139:G:C6	57:AA:140:G:H2'	2.35	0.61
57:AA:307:G:H21	57:AA:330:A:H62	1.48	0.61
57:AA:1847:A:H3'	57:AA:1848:A:C5'	2.29	0.61
57:AA:2777:G:C4'	57:AA:2778:A:H5'	2.29	0.61
1:Bb:216:SER:C	1:Bb:218:ALA:H	2.08	0.61
2:Bc:131:ARG:NH1	4:Be:50:GLU:HG2	2.14	0.61
4:Be:7:GLU:HB3	4:Be:112:LEU:HD13	1.82	0.61
13:Bn:13:THR:N	13:Bn:14:PRO:CD	2.63	0.61
21:By:63:VAL:HB	21:By:76:ILE:O	2.00	0.61
22:Ba:1342:C:H2'	22:Ba:1343:G:H8	1.65	0.61
27:BD:118:VAL:HG22	27:BD:119:ALA:H	1.65	0.61
27:BD:263:ARG:HB2	27:BD:263:ARG:NH1	2.15	0.61
28:BE:28:ALA:HB3	28:BE:93:VAL:HG22	1.83	0.61
28:BE:77:ILE:HG22	28:BE:78:LEU:HG	1.81	0.61
29:BF:65:TRP:CH2	29:BF:75:HIS:HD2	2.18	0.61
31:BH:124:GLU:HB2	31:BH:132:ARG:CG	2.26	0.61
32:BI:92:VAL:HG22	32:BI:97:ILE:HG12	1.83	0.61
36:BP:23:PRO:CD	36:BP:33:ARG:CZ	2.70	0.61
38:BR:7:GLY:C	38:BR:8:ARG:NE	2.58	0.61
46:BZ:24:LEU:CD2	46:BZ:86:VAL:HG23	2.30	0.61
52:B5:36:CYS:SG	52:B5:49:CYS:CB	2.88	0.61
57:BA:523:C:C2'	57:BA:524:U:H5'	2.31	0.61
57:BA:1590:U:C3'	57:BA:1591:G:H5"	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:93:VAL:HG11	1:Ab:97:TRP:CD1	2.32	0.61
1:Ab:102:LEU:HD12	1:Ab:102:LEU:N	2.15	0.61
2:Ac:20:SER:HB2	2:Ac:40:ARG:NH2	2.15	0.61
6:Ag:69:VAL:HG21	6:Ag:104:LEU:HD21	1.83	0.61
13:An:51:GLY:C	13:An:53:LEU:H	2.08	0.61
18:As:5:LEU:HG	18:As:10:PHE:CD1	2.35	0.61
22:Aa:9:G:H2'	22:Aa:10:A:H8	1.64	0.61
39:AS:105:ALA:C	39:AS:107:GLU:H	2.07	0.61
49:A2:59:ARG:O	49:A2:63:VAL:HG23	2.00	0.61
55:A8:61:LEU:HD12	55:A8:63:PRO:HD2	1.82	0.61
57:AA:1021:A:C8	57:AA:1021:A:C3'	2.80	0.61
57:AA:1280:G:C2'	57:AA:1281:G:H5"	2.31	0.61
57:AA:1286:A:O2'	57:AA:1288:U:OP2	2.18	0.61
57:AA:2693:A:H2'	57:AA:2694:G:H8	1.65	0.61
57:AA:2789:C:H1'	57:AA:2892:A:C2	2.35	0.61
7:Bh:17:THR:HB	7:Bh:78:GLN:OE1	2.00	0.61
7:Bh:130:GLY:O	22:Ba:599:C:H4'	1.99	0.61
8:Bi:65:VAL:HG21	8:Bi:73:GLN:HB3	1.82	0.61
22:Ba:106:C:H2'	22:Ba:107:G:H8	1.64	0.61
29:BF:8:GLN:HG2	29:BF:126:VAL:HB	1.82	0.61
34:BN:1:MET:HG2	34:BN:2:LYS:H	1.64	0.61
36:BP:84:ASN:HA	36:BP:115:LEU:O	2.00	0.61
36:BP:100:LEU:N	36:BP:100:LEU:HD22	2.16	0.61
46:BZ:170:THR:HG21	57:BA:875:G:H4'	1.83	0.61
47:B0:23:VAL:HA	47:B0:38:VAL:CG2	2.28	0.61
57:BA:102:G:H4'	57:BA:102:G:OP1	1.98	0.61
57:BA:1858:G:H2'	57:BA:1883:G:N2	2.14	0.61
1:Ab:217:ARG:HA	1:Ab:220:ASP:HB2	1.82	0.61
4:Ae:72:GLN:HE22	4:Ae:144:THR:HG22	1.66	0.61
8:Ai:126:SER:O	8:Ai:128:ARG:HD3	2.00	0.61
9:Aj:13:HIS:HD2	22:Aa:1152:A:H5"	1.64	0.61
10:Ak:32:ILE:HD13	10:Ak:72:ALA:HB2	1.83	0.61
16:Aq:97:SER:C	16:Aq:98:LEU:HD12	2.25	0.61
17:Ar:45:SER:H	17:Ar:51:LEU:HD11	1.65	0.61
22:Aa:57:G:H2'	22:Aa:58:C:C6	2.36	0.61
29:AF:123:LEU:HD12	29:AF:124:LEU:N	2.14	0.61
37:AQ:43:THR:HA	37:AQ:94:VAL:HG12	1.82	0.61
38:AR:12:ARG:HD3	38:AR:16:HIS:CD2	2.35	0.61
46:AZ:169:GLU:O	46:AZ:170:THR:C	2.42	0.61
53:A6:23:THR:HG21	57:AA:2419:U:C5'	2.30	0.61
57:AA:52:A:O2'	57:AA:53:A:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2477:C:H5'	57:AA:2477:C:C6	2.34	0.61
1:Bb:75:LYS:HA	1:Bb:78:GLN:NE2	2.12	0.61
5:Bf:1:MET:HE3	5:Bf:66:GLU:HG2	1.83	0.61
7:Bh:120:THR:HG23	7:Bh:123:GLU:OE1	2.00	0.61
18:Bs:40:ILE:HD13	18:Bs:62:ILE:CD1	2.29	0.61
25:Bw:68:C:H2'	25:Bw:69:C:C6	2.35	0.61
27:BD:44:ASN:HB2	27:BD:48:ARG:O	2.01	0.61
27:BD:244:ARG:HA	57:BA:1902:C:H4'	1.82	0.61
28:BE:33:VAL:HG22	28:BE:33:VAL:O	1.99	0.61
28:BE:59:VAL:O	28:BE:60:ASN:CG	2.43	0.61
29:BF:32:LEU:HD11	29:BF:105:VAL:HG13	1.82	0.61
29:BF:132:VAL:HG22	29:BF:133:ASN:ND2	2.14	0.61
31:BH:13:LYS:O	31:BH:15:VAL:N	2.33	0.61
32:BI:9:LEU:HD12	32:BI:9:LEU:N	2.16	0.61
45:BY:100:ALA:O	45:BY:101:LYS:HB2	1.99	0.61
46:BZ:151:HIS:HA	46:BZ:171:ILE:HG22	1.83	0.61
57:BA:52:A:O2'	57:BA:53:A:H5'	2.01	0.61
57:BA:481:G:H1'	57:BA:506:G:H21	1.66	0.61
57:BA:1537:G:H2'	57:BA:1538:G:C8	2.30	0.61
57:BA:2392:A:H2	57:BA:2424:C:H42	1.47	0.61
3:Ad:9:CYS:SG	3:Ad:31:CYS:O	2.58	0.61
4:Ae:51:VAL:HB	4:Ae:52:PRO:CD	2.25	0.61
11:Al:41:ARG:HH12	11:Al:57:LYS:HZ3	1.47	0.61
22:Aa:107:G:H2'	22:Aa:108:G:H5'	1.83	0.61
25:Aw:35:A:H2'	25:Aw:36:U:C6	2.35	0.61
28:AE:28:ALA:HB3	28:AE:93:VAL:HG22	1.82	0.61
32:AI:62:LYS:HD2	32:AI:133:HIS:CD2	2.35	0.61
32:AI:92:VAL:CB	32:AI:120:ILE:HB	2.23	0.61
32:AI:97:ILE:O	32:AI:101:LEU:HD13	2.00	0.61
36:AP:65:ARG:NH1	55:A8:15:LYS:HB2	2.16	0.61
36:AP:88:LEU:C	36:AP:90:ARG:N	2.59	0.61
38:AR:78:LYS:O	38:AR:83:ILE:HG12	2.00	0.61
44:AX:44:GLU:CG	44:AX:51:VAL:HG23	2.31	0.61
48:A1:25:LYS:HG3	48:A1:31:GLY:HA2	1.82	0.61
48:A1:89:GLU:HA	48:A1:92:LYS:CB	2.27	0.61
53:A6:19:ARG:HG3	57:AA:2399:G:O2'	2.01	0.61
57:AA:1858:G:H2'	57:AA:1883:G:N2	2.15	0.61
2:Bc:16:ARG:NH1	2:Bc:16:ARG:HB2	2.15	0.61
3:Bd:13:ARG:O	3:Bd:16:GLY:N	2.31	0.61
9:Bj:32:ALA:HB2	9:Bj:76:ASN:HB3	1.80	0.61
9:Bj:33:GLN:O	9:Bj:75:ILE:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:93:ARG:HG3	57:BA:888:C:OP1	2.01	0.61
18:Bs:21:GLU:O	18:Bs:24:ALA:HB3	2.00	0.61
21:By:24:GLU:HA	21:By:24:GLU:OE1	2.00	0.61
22:Ba:1097:C:H2'	22:Ba:1098:C:H6	1.64	0.61
22:Ba:1307:U:H2'	22:Ba:1308:U:H6	1.62	0.61
22:Ba:1352:C:H2'	22:Ba:1353:G:C8	2.35	0.61
25:Bw:42:G:H2'	25:Bw:43:A:H8	1.64	0.61
27:BD:144:ALA:HB3	27:BD:192:THR:CG2	2.30	0.61
27:BD:227:ASN:HA	27:BD:235:GLY:H	1.64	0.61
29:BF:119:ARG:HH11	29:BF:119:ARG:HG2	1.64	0.61
36:BP:18:ARG:HH11	36:BP:18:ARG:C	2.07	0.61
44:BX:35:THR:HG22	44:BX:36:LYS:N	2.16	0.61
46:BZ:23:LYS:HZ3	46:BZ:40:ASP:HA	1.65	0.61
53:B6:15:GLU:CD	53:B6:44:ARG:NH1	2.58	0.61
54:B7:8:ASN:C	54:B7:8:ASN:ND2	2.56	0.61
57:BA:65:C:O2'	57:BA:66:C:H5'	1.99	0.61
57:BA:1291:C:H2'	57:BA:1292:U:C6	2.35	0.61
57:BA:1539:G:C2	57:BA:1540:U:H1'	2.36	0.61
57:BA:1697:G:H3'	57:BA:1698:A:C5'	2.29	0.61
57:BA:2881:C:H2'	57:BA:2882:A:H8	1.65	0.61
4:Ae:7:GLU:HG2	4:Ae:112:LEU:HD22	1.83	0.61
7:Ah:118:VAL:C	7:Ah:119:LEU:HD23	2.26	0.61
8:Ai:12:GLU:HG3	22:Aa:1370:G:H5"	1.82	0.61
13:An:40:CYS:O	13:An:44:LEU:HB3	2.00	0.61
22:Aa:291:C:O2'	22:Aa:292:G:H5'	2.01	0.61
22:Aa:393:A:O2'	22:Aa:394:G:H5'	2.00	0.61
22:Aa:460:G:O6	22:Aa:470:C:H5"	2.00	0.61
22:Aa:1007:C:H2'	22:Aa:1008:C:C6	2.36	0.61
22:Aa:1133:G:N2	22:Aa:1143:G:H1'	2.16	0.61
22:Aa:1321:C:C3'	22:Aa:1322:C:H5"	2.31	0.61
26:AC:25:GLU:O	26:AC:29:LEU:HB2	2.01	0.61
27:AD:166:GLN:HE21	27:AD:166:GLN:CA	2.14	0.61
40:AT:54:ARG:HG2	40:AT:54:ARG:NH1	2.15	0.61
57:AA:545:C:C3'	57:AA:547:A:H5"	2.30	0.61
57:AA:783:A:H8	57:AA:784:A:H4'	1.66	0.61
57:AA:954:G:N2	57:AA:964:C:H1'	2.16	0.61
57:AA:1319:G:O2'	57:AA:1320:C:H5'	2.00	0.61
57:AA:2147:G:H2'	57:AA:2148:G:O4'	2.00	0.61
1:Bb:93:VAL:HG11	1:Bb:97:TRP:CD1	2.32	0.61
1:Bb:111:ARG:HH21	1:Bb:114:ARG:HG2	1.66	0.61
1:Bb:149:LEU:O	1:Bb:153:ARG:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:196:LEU:CD1	1:Bb:197:VAL:HG23	2.30	0.61
2:Bc:32:LEU:O	2:Bc:36:ASP:HB2	2.00	0.61
4:Be:6:PHE:HB3	4:Be:35:GLY:C	2.26	0.61
11:Bl:41:ARG:HH12	11:Bl:57:LYS:HZ3	1.48	0.61
12:Bm:3:ARG:HG2	12:Bm:9:ILE:HD11	1.82	0.61
18:Bs:11:VAL:HG22	18:Bs:16:LEU:CD1	2.30	0.61
18:Bs:58:VAL:O	18:Bs:58:VAL:HG23	1.99	0.61
27:BD:35:LYS:HZ2	27:BD:35:LYS:CB	2.09	0.61
27:BD:227:ASN:HD21	57:BA:784:A:H5"	1.64	0.61
28:BE:59:VAL:HG13	28:BE:60:ASN:H	1.64	0.61
28:BE:69:LYS:HZ1	28:BE:90:THR:H	1.47	0.61
32:BI:66:GLU:OE2	32:BI:134:PRO:HD2	2.00	0.61
36:BP:10:PRO:O	36:BP:11:GLY:C	2.43	0.61
42:BV:99:ILE:HD13	42:BV:99:ILE:N	2.16	0.61
44:BX:89:ILE:HG22	44:BX:91:ALA:HB3	1.83	0.61
53:B6:9:LEU:HD13	53:B6:9:LEU:O	2.01	0.61
55:B8:33:ASN:N	55:B8:36:LYS:HD2	2.15	0.61
57:BA:719:C:O2'	57:BA:720:C:H5'	2.01	0.61
57:BA:1925:C:O2'	57:BA:1926:U:H5'	2.01	0.61
57:BA:2267:A:H5"	57:BA:2268:A:H5'	1.82	0.61
7:Ah:17:THR:HB	7:Ah:78:GLN:OE1	2.00	0.61
12:Am:108:ARG:HG3	12:Am:113:PRO:O	2.00	0.61
13:An:13:THR:N	13:An:14:PRO:CD	2.64	0.61
17:Ar:40:LEU:H	17:Ar:40:LEU:HD12	1.66	0.61
18:As:31:ILE:CG2	18:As:49:ILE:HA	2.30	0.61
22:Aa:663:A:O2'	22:Aa:664:G:H5'	2.00	0.61
22:Aa:711:G:O2'	22:Aa:712:A:H5'	2.00	0.61
22:Aa:1281:U:H5'	22:Aa:1282:C:C5	2.35	0.61
27:AD:4:LYS:HE3	27:AD:20:ASP:HA	1.81	0.61
27:AD:44:ASN:HB2	27:AD:48:ARG:O	2.00	0.61
28:AE:59:VAL:O	28:AE:60:ASN:CG	2.44	0.61
35:AO:47:ILE:HG12	35:AO:48:PRO:HD2	1.82	0.61
36:AP:105:LEU:HG	57:AA:626:U:O2	2.01	0.61
42:AV:21:ARG:HB3	42:AV:91:TYR:HB2	1.81	0.61
43:AW:82:LEU:HB3	43:AW:98:LYS:HB2	1.81	0.61
53:A6:16:CYS:O	53:A6:17:LYS:HB2	1.99	0.61
54:A7:12:ARG:CD	54:A7:46:VAL:HG21	2.26	0.61
57:AA:1336:A:H2'	57:AA:1337:G:C8	2.35	0.61
57:AA:1541:G:H5"	57:AA:1542:A:O5'	2.01	0.61
1:Bb:70:PHE:O	1:Bb:93:VAL:N	2.34	0.61
2:Bc:77:ILE:O	2:Bc:83:ARG:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:132:ARG:HG2	2:Bc:136:GLN:NE2	2.16	0.61
3:Bd:68:TYR:CE2	3:Bd:97:LEU:HD22	2.36	0.61
3:Bd:129:ASN:N	3:Bd:129:ASN:ND2	2.37	0.61
6:Bg:36:LYS:O	6:Bg:39:ALA:HB3	2.00	0.61
14:Bo:26:GLU:HA	14:Bo:81:LEU:HD22	1.82	0.61
22:Ba:709:G:O2'	22:Ba:710:G:H5'	2.01	0.61
22:Ba:1504:G:O2'	22:Ba:1505:G:OP2	2.14	0.61
27:BD:270:ILE:O	27:BD:271:ILE:HG23	2.01	0.61
28:BE:119:ARG:HG2	28:BE:160:TYR:HB2	1.83	0.61
30:BG:170:ARG:HG3	30:BG:180:PHE:HE1	1.66	0.61
31:BH:94:TYR:CZ	31:BH:160:LYS:HD3	2.35	0.61
34:BN:76:SER:C	34:BN:78:TYR:H	2.08	0.61
35:BO:110:GLY:HA2	35:BO:112:MET:HE2	1.82	0.61
36:BP:105:LEU:HG	57:BA:626:U:O2	2.01	0.61
45:BY:4:LYS:HB2	45:BY:32:PRO:HG3	1.82	0.61
51:B4:11:PRO:HA	51:B4:25:TYR:HA	1.82	0.61
51:B4:53:GLU:O	51:B4:56:VAL:HG23	2.01	0.61
57:BA:229:A:H5'	57:BA:230:U:H5'	1.82	0.61
57:BA:2359:C:H2'	57:BA:2360:A:C8	2.36	0.61
57:BA:2747:G:O6	57:BA:2755:C:H5"	2.01	0.61
2:Ac:71:ALA:HB2	2:Ac:106:VAL:HB	1.83	0.61
3:Ad:129:ASN:N	3:Ad:129:ASN:ND2	2.34	0.61
6:Ag:151:TYR:HA	6:Ag:153:HIS:CE1	2.36	0.61
9:Aj:50:ILE:HG22	9:Aj:60:ARG:HD3	1.83	0.61
14:Ao:25:THR:HG21	14:Ao:70:LEU:HB2	1.83	0.61
16:Aq:63:ARG:HG2	16:Aq:64:PRO:HD2	1.82	0.61
22:Aa:433:C:H2'	22:Aa:434:U:C6	2.35	0.61
22:Aa:674:G:H2'	22:Aa:675:A:H8	1.65	0.61
22:Aa:1003:G:C2	22:Aa:1004:A:H1'	2.35	0.61
22:Aa:1149:C:H2'	22:Aa:1150:U:C6	2.36	0.61
25:Aw:9:G:O2'	25:Aw:10:G:H8	1.84	0.61
25:Aw:23:C:H2'	25:Aw:24:U:C6	2.36	0.61
26:AC:176:VAL:HB	26:AC:189:ASN:HB3	1.83	0.61
27:AD:61:LEU:O	27:AD:63:ARG:NH1	2.32	0.61
27:AD:227:ASN:ND2	57:AA:784:A:H5"	2.16	0.61
27:AD:245:PRO:O	27:AD:246:PRO:C	2.44	0.61
28:AE:55:ASN:O	28:AE:57:LYS:N	2.34	0.61
28:AE:59:VAL:O	28:AE:62:PRO:HD2	2.00	0.61
29:AF:21:ALA:HB3	29:AF:23:ASP:OD1	2.01	0.61
32:AI:88:ILE:HD11	32:AI:142:VAL:CG1	2.26	0.61
34:AN:17:ASP:CB	34:AN:55:VAL:HG12	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:A4:22:ILE:HD12	51:A4:22:ILE:N	2.16	0.61
57:AA:654(S):G:H3'	57:AA:654(T):C:H5"	1.83	0.61
57:AA:1173:G:H2'	57:AA:1175:U:C5	2.36	0.61
57:AA:1292:U:H2'	57:AA:1293:C:C6	2.36	0.61
57:AA:2317:C:O2'	57:AA:2318:G:H5'	2.01	0.61
2:Bc:53:ALA:HB2	2:Bc:115:LEU:HD21	1.82	0.61
2:Bc:157:ILE:C	2:Bc:159:GLY:H	2.08	0.61
3:Bd:196:LEU:H	3:Bd:196:LEU:CD1	2.14	0.61
5:Bf:16:GLN:CD	5:Bf:16:GLN:H	2.09	0.61
6:Bg:102:ARG:HD3	22:Ba:940:C:OP1	2.00	0.61
19:Bt:23:ARG:HA	19:Bt:26:ASN:HD21	1.66	0.61
22:Ba:832:C:C4	22:Ba:855:G:N1	2.68	0.61
22:Ba:1149:C:H2'	22:Ba:1150:U:C6	2.36	0.61
28:BE:31:CYS:HB3	28:BE:49:LEU:HB2	1.82	0.61
28:BE:195:LEU:HD12	28:BE:196:VAL:N	2.15	0.61
29:BF:101:LEU:O	29:BF:106:ARG:NH1	2.34	0.61
29:BF:160:ASN:C	29:BF:160:ASN:HD22	2.07	0.61
31:BH:7:LEU:HD23	31:BH:69:ARG:CG	2.30	0.61
42:BV:49:THR:HB	42:BV:50:PRO:CD	2.30	0.61
43:BW:19:LEU:HB3	52:B5:25:LEU:HD12	1.83	0.61
44:BX:8:ILE:HD12	44:BX:8:ILE:H	1.66	0.61
44:BX:35:THR:O	44:BX:39:ILE:HG12	2.00	0.61
54:B7:11:LYS:HE2	57:BA:686:G:H5"	1.82	0.61
57:BA:992:C:O2'	57:BA:993:G:H5'	2.01	0.61
57:BA:2147:G:H2'	57:BA:2148:G:O4'	2.01	0.61
57:BA:2577:A:H5"	57:BA:2578:G:H5'	1.82	0.61
57:BA:2712:U:O2'	57:BA:2713:A:H5'	2.01	0.61
28:AE:33:VAL:HG22	28:AE:33:VAL:O	2.01	0.61
29:AF:108:LYS:HD2	29:AF:112:MET:CE	2.29	0.61
32:AI:9:LEU:HD12	32:AI:9:LEU:N	2.15	0.61
34:AN:76:SER:C	34:AN:78:TYR:H	2.09	0.61
36:AP:32:THR:O	36:AP:33:ARG:HB3	2.01	0.61
40:AT:3:ARG:C	40:AT:5:ALA:N	2.54	0.61
40:AT:65:LYS:HZ2	40:AT:65:LYS:HA	1.66	0.61
53:A6:15:GLU:OE2	53:A6:44:ARG:NH2	2.34	0.61
55:A8:50:LEU:O	55:A8:51:ALA:HB3	2.01	0.61
57:AA:1464:C:H2'	57:AA:1465:G:C8	2.36	0.61
57:AA:1925:C:O2'	57:AA:1926:U:H5'	2.01	0.61
57:AA:2360:A:O2'	57:AA:2361:A:O4'	2.17	0.61
57:AA:2753:A:O2'	57:AA:2754:U:H5'	2.00	0.61
3:Bd:8:VAL:O	3:Bd:10:ARG:N	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bk:21:ILE:CD1	10:Bk:82:VAL:HG13	2.31	0.61
10:Bk:106:LYS:O	10:Bk:107:SER:HB3	2.00	0.61
14:Bo:66:LEU:H	14:Bo:66:LEU:HD12	1.64	0.61
15:Bp:67:THR:HG22	15:Bp:68:ASP:N	2.14	0.61
22:Ba:637:G:H2'	22:Ba:638:G:C8	2.35	0.61
28:BE:14:ILE:HG12	28:BE:21:VAL:CG2	2.30	0.61
30:BG:109:VAL:O	30:BG:110:ALA:C	2.44	0.61
42:BV:38:LEU:C	42:BV:38:LEU:HD23	2.26	0.61
44:BX:26:TYR:HD2	44:BX:92:LEU:HD12	1.66	0.61
45:BY:35:TYR:CE2	45:BY:69:ALA:HB3	2.36	0.61
46:BZ:169:GLU:O	46:BZ:170:THR:C	2.44	0.61
52:B5:53:ALA:HB3	52:B5:55:ARG:HH21	1.65	0.61
57:BA:229:A:C5'	57:BA:230:U:H5'	2.30	0.61
57:BA:613:G:H5'	57:BA:613:G:H8	1.64	0.61
57:BA:1484:G:N2	57:BA:1505:C:H42	1.99	0.61
1:Ab:140:HIS:HA	1:Ab:143:GLU:CG	2.31	0.60
4:Ae:6:PHE:HB3	4:Ae:35:GLY:C	2.26	0.60
4:Ae:60:TYR:HE1	4:Ae:64:ARG:HH21	1.48	0.60
8:Ai:100:GLY:O	8:Ai:102:LEU:N	2.34	0.60
10:Ak:31:THR:OG1	10:Ak:42:TRP:HB3	2.01	0.60
12:Am:3:ARG:HG2	12:Am:9:ILE:HD11	1.82	0.60
12:Am:68:GLY:C	12:Am:71:ARG:HB3	2.26	0.60
15:Ap:4:ILE:HD12	15:Ap:4:ILE:N	2.15	0.60
15:Ap:43:LYS:HA	15:Ap:48:TRP:HB3	1.83	0.60
22:Aa:203:U:H5'	22:Aa:216:G:C2	2.36	0.60
22:Aa:1056:U:O2'	22:Aa:1057:G:H5'	2.01	0.60
27:AD:268:ARG:HB3	27:AD:268:ARG:HH11	1.65	0.60
28:AE:87:GLU:OE1	28:AE:89:ASP:N	2.30	0.60
29:AF:8:GLN:HG2	29:AF:126:VAL:HB	1.81	0.60
47:A0:45:PHE:HE2	47:A0:69:PHE:CE2	2.18	0.60
49:A2:13:ALA:HA	49:A2:16:LEU:CG	2.31	0.60
54:A7:11:LYS:HE2	57:AA:686:G:H5"	1.83	0.60
54:A7:24:THR:HG23	54:A7:27:GLY:H	1.66	0.60
57:AA:271(U):G:O2'	57:AA:271(V):G:H5'	2.00	0.60
57:AA:2742:C:O2'	57:AA:2743:C:H5'	2.00	0.60
58:AB:55:U:O2'	58:AB:56:G:H5'	2.01	0.60
1:Bb:173:ALA:HA	1:Bb:176:GLU:HB2	1.83	0.60
22:Ba:123:C:OP1	22:Ba:312:C:H5'	2.01	0.60
22:Ba:1142:G:H2'	22:Ba:1143:G:O4'	2.01	0.60
27:BD:25:THR:HG22	27:BD:26:LYS:CD	2.31	0.60
27:BD:58:HIS:HD2	27:BD:59:LYS:O	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:111:LEU:HB3	30:BG:117:PHE:CE2	2.36	0.60
32:BI:120:ILE:HG22	32:BI:121:LYS:H	1.65	0.60
33:BJ:23:SER:HA	33:BJ:117:LEU:O	2.01	0.60
36:BP:46:LYS:HG2	36:BP:52:GLU:CD	2.26	0.60
43:BW:58:ALA:HB3	43:BW:69:LEU:HD11	1.82	0.60
48:B1:5:CYS:SG	48:B1:62:VAL:HG23	2.41	0.60
48:B1:29:GLY:O	48:B1:31:GLY:N	2.33	0.60
52:B5:3:LYS:HB3	57:BA:747:U:C5	2.36	0.60
2:Ac:189:ALA:C	2:Ac:190:ARG:HG3	2.25	0.60
7:Ah:6:ILE:H	7:Ah:6:ILE:CD1	2.14	0.60
10:Ak:46:GLY:HA3	22:Aa:689:C:P	2.41	0.60
12:Am:73:GLU:O	12:Am:74:VAL:C	2.45	0.60
14:Ao:26:GLU:HA	14:Ao:81:LEU:HD22	1.82	0.60
22:Aa:997:U:H2'	22:Aa:998:G:C8	2.37	0.60
22:Aa:1003:G:H2'	22:Aa:1004:A:C4'	2.20	0.60
22:Aa:1062:U:H2'	22:Aa:1063:C:C6	2.35	0.60
22:Aa:1372:U:H2'	22:Aa:1373:G:O4'	2.01	0.60
24:Av:2:G:H2'	24:Av:3:C:C6	2.36	0.60
25:Aw:34:C:H2'	25:Aw:35:A:O4'	2.02	0.60
28:AE:108:SER:O	28:AE:162:ALA:HA	2.01	0.60
30:AG:148:MET:HG2	30:AG:148:MET:O	2.00	0.60
35:AO:97:ARG:HA	35:AO:117:LEU:CD2	2.30	0.60
39:AS:30:ARG:HH22	39:AS:62:LYS:CD	2.12	0.60
44:AX:8:ILE:HD12	44:AX:8:ILE:N	2.15	0.60
47:A0:5:LYS:NZ	47:A0:5:LYS:HB3	2.16	0.60
47:A0:36:ILE:HG23	57:AA:2354:G:O2'	2.01	0.60
48:A1:45:ASN:CB	57:AA:2230:G:H1'	2.32	0.60
49:A2:16:LEU:O	49:A2:20:GLU:HB3	2.01	0.60
57:AA:1177:A:H5'	57:AA:1178:C:C5	2.36	0.60
57:AA:2877:G:O2'	57:AA:2878:U:H5'	2.01	0.60
1:Bb:17:PHE:O	1:Bb:18:GLY:O	2.19	0.60
2:Bc:192:THR:O	22:Ba:1206:G:H4'	2.02	0.60
3:Bd:139:ARG:HH11	3:Bd:139:ARG:HG2	1.65	0.60
4:Be:12:LEU:HD13	4:Be:31:LEU:HB2	1.83	0.60
4:Be:42:GLY:HA3	4:Be:66:MET:HG2	1.83	0.60
6:Bg:64:GLN:HG3	6:Bg:68:ASN:HD21	1.64	0.60
21:By:47:MET:HE1	21:By:76:ILE:HD11	1.83	0.60
21:By:88:SER:O	21:By:91:VAL:HG12	2.00	0.60
28:BE:116:VAL:O	28:BE:117:MET:CB	2.43	0.60
30:BG:91:ARG:HD2	30:BG:92:VAL:N	2.17	0.60
32:BI:27:ARG:HG3	48:B1:71:TYR:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:92:VAL:HG22	32:BI:97:ILE:CG1	2.30	0.60
37:BQ:43:THR:HA	37:BQ:94:VAL:HG12	1.83	0.60
47:B0:36:ILE:HG23	57:BA:2354:G:O2'	2.00	0.60
53:B6:23:THR:HG21	57:BA:2419:U:C5'	2.30	0.60
55:B8:30:ARG:HA	55:B8:30:ARG:NE	2.14	0.60
57:BA:893:C:H2'	57:BA:894:C:C6	2.36	0.60
57:BA:1652:A:O2'	57:BA:1653:G:H5'	2.01	0.60
57:BA:1847:A:H3'	57:BA:1848:A:H5'	1.81	0.60
57:BA:2894:G:N3	57:BA:2894:G:H2'	2.16	0.60
58:BB:30:C:H2'	58:BB:31:C:O4'	2.01	0.60
1:Ab:167:PRO:HG3	1:Ab:188:ALA:CB	2.30	0.60
2:Ac:99:VAL:O	2:Ac:99:VAL:HG23	2.02	0.60
3:Ad:126:ILE:HG22	3:Ad:127:THR:N	2.16	0.60
7:Ah:89:PRO:HG2	22:Aa:878:G:H5'	1.83	0.60
8:Ai:103:THR:CG2	8:Ai:104:ARG:H	2.09	0.60
9:Aj:16:LEU:O	9:Aj:16:LEU:HD22	2.02	0.60
9:Aj:55:LYS:HZ2	22:Aa:963:G:N2	1.99	0.60
11:Al:6:THR:HG23	11:Al:9:GLN:NE2	2.11	0.60
13:An:25:VAL:HG23	13:An:38:GLY:O	2.00	0.60
15:Ap:4:ILE:HG23	15:Ap:36:ILE:HD11	1.82	0.60
15:Ap:28:ARG:NH2	22:Aa:390:C:O3'	2.34	0.60
22:Aa:973:G:H3'	22:Aa:974:A:H5"	1.83	0.60
22:Aa:1028:C:N4	22:Aa:1034:G:H1'	2.15	0.60
25:Aw:70:G:C2'	25:Aw:71:C:H5'	2.31	0.60
45:AY:13:VAL:HG21	45:AY:72:VAL:HB	1.84	0.60
46:AZ:38:TYR:CD1	46:AZ:38:TYR:O	2.54	0.60
52:A5:41:PRO:O	52:A5:44:THR:OG1	2.15	0.60
57:AA:594:U:H2'	57:AA:595:C:C6	2.36	0.60
57:AA:996:A:H2'	57:AA:997:G:H8	1.66	0.60
2:Bc:92:ALA:HB2	2:Bc:99:VAL:CG2	2.30	0.60
3:Bd:124:GLY:HA3	3:Bd:132:ARG:NH1	2.15	0.60
9:Bj:49:VAL:O	9:Bj:60:ARG:HB2	2.01	0.60
10:Bk:59:TYR:O	10:Bk:62:GLN:HB3	2.01	0.60
11:Bl:22:SER:O	11:Bl:24:VAL:N	2.34	0.60
11:Bl:27:LEU:HG	11:Bl:62:SER:OG	2.00	0.60
12:Bm:20:THR:C	12:Bm:22:ILE:H	2.08	0.60
12:Bm:108:ARG:NE	12:Bm:114:ARG:CG	2.63	0.60
16:Bq:17:LYS:HZ2	22:Ba:256:U:P	2.23	0.60
18:Bs:17:GLU:O	18:Bs:21:GLU:HG2	2.01	0.60
19:Bt:23:ARG:HB2	22:Ba:323:U:H5'	1.83	0.60
21:By:50:CYS:HA	21:By:64:TYR:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:By:87:TYR:CZ	23:Bx:20:A:H2'	2.36	0.60
22:Ba:373:A:O2'	22:Ba:374:A:H5'	2.01	0.60
22:Ba:728:A:H2'	22:Ba:729:A:C8	2.36	0.60
22:Ba:1028:C:N4	22:Ba:1034:G:H1'	2.16	0.60
29:BF:20:LEU:HD12	29:BF:199:TRP:CZ3	2.35	0.60
30:BG:161:THR:HG22	30:BG:162:THR:N	2.16	0.60
33:BJ:79:ALA:O	33:BJ:80:VAL:CB	2.49	0.60
36:BP:18:ARG:HH11	36:BP:18:ARG:CB	2.13	0.60
1:Ab:103:THR:HA	1:Ab:180:LEU:HD11	1.84	0.60
1:Ab:111:ARG:NH1	22:Aa:1104:G:H4'	2.17	0.60
1:Ab:149:LEU:O	1:Ab:153:ARG:HB2	2.00	0.60
12:Am:72:ALA:O	12:Am:75:ALA:HB3	2.01	0.60
22:Aa:45:U:H2'	22:Aa:46:G:C8	2.36	0.60
22:Aa:223:U:H2'	22:Aa:224:C:H6	1.66	0.60
22:Aa:1107:C:C2'	22:Aa:1108:G:H5"	2.32	0.60
22:Aa:1315:U:O2'	22:Aa:1360:A:H1'	2.00	0.60
22:Aa:1353:G:H2'	22:Aa:1354:C:C6	2.36	0.60
27:AD:154:LYS:C	27:AD:155:LEU:HD12	2.27	0.60
27:AD:210:GLY:C	27:AD:212:SER:H	2.10	0.60
29:AF:40:GLN:HE22	29:AF:184:TYR:CB	2.13	0.60
29:AF:40:GLN:OE1	29:AF:182:ASN:HB2	2.00	0.60
30:AG:113:ARG:O	30:AG:140:ILE:HG22	2.01	0.60
37:AQ:135:ASP:HB3	46:AZ:49:ARG:NH1	2.17	0.60
39:AS:29:PHE:CE1	58:AB:7:G:H4'	2.37	0.60
40:AT:125:ARG:HA	40:AT:125:ARG:HH11	1.66	0.60
49:A2:53:LEU:O	49:A2:53:LEU:HD23	2.01	0.60
57:AA:2259:G:H1'	57:AA:2427:C:C2	2.35	0.60
57:AA:2469:A:H2	57:AA:2481:G:H21	1.49	0.60
57:AA:2790:A:H2'	57:AA:2790:A:N3	2.15	0.60
2:Bc:20:SER:HB2	2:Bc:40:ARG:NH2	2.16	0.60
4:Be:78:HIS:HD2	7:Bh:104:ARG:HG3	1.64	0.60
11:Bl:41:ARG:HB3	11:Bl:41:ARG:NH1	2.08	0.60
15:Bp:25:ARG:NH1	22:Ba:134:A:N6	2.49	0.60
18:Bs:5:LEU:HG	18:Bs:10:PHE:CD1	2.36	0.60
22:Ba:194:C:C2'	22:Ba:195:A:H5"	2.31	0.60
22:Ba:503:C:H2'	22:Ba:504:C:C6	2.33	0.60
27:BD:94:LEU:HB2	27:BD:104:TYR:CE2	2.37	0.60
27:BD:94:LEU:HB2	27:BD:104:TYR:HE2	1.63	0.60
28:BE:9:VAL:HG13	28:BE:25:VAL:O	2.01	0.60
28:BE:128:SER:OG	28:BE:129:HIS:N	2.32	0.60
28:BE:201:THR:OG1	28:BE:202:LYS:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:15:LEU:HD13	34:BN:16:ILE:N	2.15	0.60
42:BV:21:ARG:HB3	42:BV:91:TYR:HB2	1.83	0.60
47:B0:5:LYS:NZ	47:B0:5:LYS:HB3	2.16	0.60
47:B0:27:GLU:N	47:B0:27:GLU:OE1	2.35	0.60
57:BA:27:G:H22	57:BA:512:G:H2'	1.66	0.60
57:BA:869:G:O2'	57:BA:870:A:H5'	2.00	0.60
57:BA:1853:A:H2'	57:BA:1854:A:C8	2.37	0.60
57:BA:1876:A:H2'	57:BA:1877:A:C8	2.36	0.60
57:BA:2223:G:C2'	57:BA:2224:G:H5'	2.31	0.60
1:Ab:55:PHE:CD1	1:Ab:58:ILE:HD12	2.36	0.60
7:Ah:5:PRO:O	7:Ah:8:ASP:HB3	2.01	0.60
7:Ah:84:ARG:O	7:Ah:135:CYS:HB2	2.01	0.60
7:Ah:130:GLY:O	22:Aa:599:C:H4'	2.01	0.60
15:Ap:43:LYS:HG3	15:Ap:48:TRP:CG	2.36	0.60
18:As:11:VAL:HG22	18:As:16:LEU:CD1	2.31	0.60
27:AD:94:LEU:HB2	27:AD:104:TYR:HE2	1.66	0.60
27:AD:108:PRO:HB3	27:AD:143:HIS:CE1	2.36	0.60
30:AG:51:ARG:CZ	30:AG:53:LEU:HD21	2.31	0.60
30:AG:77:ILE:O	30:AG:79:ASN:N	2.34	0.60
30:AG:103:LEU:O	30:AG:106:LEU:HB3	2.02	0.60
31:AH:9:ILE:C	31:AH:9:ILE:HD13	2.26	0.60
31:AH:68:THR:C	31:AH:70:THR:H	2.09	0.60
32:AI:113:ARG:O	32:AI:114:LEU:HD23	2.01	0.60
34:AN:1:MET:C	34:AN:2:LYS:HG3	2.26	0.60
46:AZ:146:ILE:HA	46:AZ:174:VAL:HG12	1.83	0.60
48:A1:29:GLY:O	48:A1:30:VAL:HG22	2.01	0.60
49:A2:3:LEU:HD22	49:A2:7:ARG:NH1	2.16	0.60
51:A4:9:LEU:HA	51:A4:26:SER:O	2.01	0.60
57:AA:157:U:H5'	57:AA:158:U:OP2	2.02	0.60
57:AA:271(P):C:HO2'	57:AA:271(Q):G:H5'	1.67	0.60
57:AA:673:C:O2'	57:AA:674:G:H5'	2.00	0.60
57:AA:1502:C:H2'	57:AA:1502:C:O2	2.01	0.60
57:AA:1603:A:H8	57:AA:1603:A:H5'	1.65	0.60
57:AA:2894:G:N3	57:AA:2894:G:H2'	2.17	0.60
11:Bl:47:LYS:HE2	11:Bl:48:PRO:N	2.17	0.60
15:Bp:43:LYS:HG3	15:Bp:48:TRP:CD2	2.36	0.60
22:Ba:1133:G:N2	22:Ba:1143:G:H1'	2.16	0.60
22:Ba:1468:A:H2'	22:Ba:1469:G:O4'	2.01	0.60
27:BD:259:THR:HG22	57:BA:1798:U:H5"	1.84	0.60
30:BG:41:GLN:NE2	30:BG:155:MET:HB3	2.16	0.60
31:BH:67:LEU:HD21	57:BA:2758:A:C4	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:153:LYS:H	31:BH:153:LYS:CD	1.98	0.60
34:BN:89:LYS:HA	34:BN:92:ALA:HB3	1.82	0.60
36:BP:148:LEU:O	36:BP:149:GLU:HB2	2.01	0.60
45:BY:7:VAL:HB	45:BY:8:LYS:NZ	2.17	0.60
50:B3:8:LEU:CD1	50:B3:31:LEU:HA	2.31	0.60
57:BA:672:C:C2'	57:BA:673:C:C5'	2.79	0.60
57:BA:852:G:O2'	57:BA:853:G:H5'	2.02	0.60
57:BA:996:A:H2'	57:BA:997:G:H8	1.67	0.60
57:BA:1021:A:N6	57:BA:1141:U:H3	1.92	0.60
57:BA:1113:U:H2'	57:BA:1114:G:C8	2.35	0.60
57:BA:1678:G:H22	57:BA:1989:G:H22	1.47	0.60
3:Ad:150:GLU:HA	3:Ad:153:ARG:CD	2.32	0.60
4:Ae:76:ILE:HD11	4:Ae:142:LEU:CD1	2.30	0.60
5:Af:3:ARG:HG3	5:Af:3:ARG:HH11	1.66	0.60
12:Am:20:THR:C	12:Am:22:ILE:H	2.08	0.60
13:An:21:TYR:CE1	22:Aa:981:U:H5'	2.37	0.60
19:At:89:ARG:NH2	19:At:104:LEU:HD21	2.17	0.60
22:Aa:192:U:H2'	22:Aa:193:C:C6	2.37	0.60
22:Aa:545:C:O2'	22:Aa:546:G:H5'	2.02	0.60
22:Aa:637:G:H2'	22:Aa:638:G:C8	2.37	0.60
27:AD:183:ARG:HH11	27:AD:183:ARG:HG2	1.65	0.60
30:AG:34:LEU:HD12	30:AG:34:LEU:N	2.16	0.60
30:AG:67:LYS:NZ	58:AB:42:C:H4'	2.17	0.60
31:AH:7:LEU:HD22	31:AH:65:HIS:NE2	2.17	0.60
39:AS:88:ASP:CG	39:AS:89:ARG:N	2.59	0.60
40:AT:27:THR:HG23	40:AT:28:VAL:N	2.16	0.60
40:AT:28:VAL:HG11	40:AT:46:GLU:CD	2.25	0.60
42:AV:19:LYS:HE2	42:AV:19:LYS:HA	1.82	0.60
46:AZ:103:ARG:HG3	46:AZ:103:ARG:HH11	1.67	0.60
57:AA:1494:A:C3'	57:AA:1495:A:H5"	2.31	0.60
57:AA:2392:A:H2	57:AA:2424:C:N4	1.98	0.60
1:Bb:113:HIS:O	1:Bb:117:GLU:HB2	2.02	0.60
5:Bf:61:LEU:O	5:Bf:62:TRP:CB	2.50	0.60
6:Bg:102:ARG:HH12	22:Ba:939:G:H5"	1.66	0.60
6:Bg:105:VAL:O	6:Bg:108:ALA:HB3	2.01	0.60
8:Bi:118:LYS:O	8:Bi:119:ALA:HB3	2.01	0.60
11:Bl:86:ARG:NH2	11:Bl:99:HIS:ND1	2.49	0.60
13:Bn:15:LYS:O	13:Bn:16:PHE:O	2.20	0.60
13:Bn:40:CYS:O	13:Bn:44:LEU:HB3	2.02	0.60
14:Bo:18:PHE:O	14:Bo:19:PRO:C	2.45	0.60
16:Bq:45:HIS:HB2	16:Bq:65:ILE:CD1	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Bq:76:LEU:HD12	16:Bq:77:VAL:N	2.17	0.60
22:Ba:107:G:H2'	22:Ba:108:G:H5'	1.82	0.60
22:Ba:438:G:H2'	22:Ba:494:U:O4	2.01	0.60
22:Ba:1321:C:C3'	22:Ba:1322:C:H5"	2.31	0.60
28:BE:59:VAL:HG13	28:BE:60:ASN:N	2.16	0.60
28:BE:132:HIS:CD2	28:BE:135:HIS:NE2	2.69	0.60
30:BG:29:TRP:HB2	58:BB:57:A:H1'	1.83	0.60
30:BG:57:ALA:HB2	30:BG:90:LEU:HD21	1.83	0.60
30:BG:145:THR:OG1	30:BG:146:TYR:N	2.27	0.60
44:BX:10:ALA:HB1	44:BX:11:PRO:HD2	1.84	0.60
57:BA:8:A:H2'	57:BA:9:U:C6	2.37	0.60
57:BA:594:U:H2'	57:BA:595:C:C6	2.36	0.60
3:Ad:88:VAL:O	3:Ad:92:VAL:HG23	2.02	0.60
11:Al:86:ARG:NH2	11:Al:99:HIS:ND1	2.50	0.60
14:Ao:66:LEU:HD12	14:Ao:66:LEU:H	1.66	0.60
16:Aq:91:ARG:HA	16:Aq:94:ASN:HD22	1.66	0.60
21:Ay:65:GLN:HE22	21:Ay:94:ILE:HG13	1.64	0.60
22:Aa:392:G:H2'	22:Aa:393:A:C8	2.36	0.60
22:Aa:946:A:H2'	22:Aa:947:G:C8	2.36	0.60
28:AE:201:THR:OG1	28:AE:202:LYS:N	2.33	0.60
31:AH:54:ARG:HB3	31:AH:65:HIS:HB2	1.82	0.60
32:AI:8:PRO:HB3	32:AI:14:ASP:N	2.14	0.60
34:AN:43:THR:HB	34:AN:46:VAL:HG12	1.82	0.60
35:AO:119:PRO:HB2	40:AT:68:TYR:CE2	2.37	0.60
40:AT:38:ASN:ND2	40:AT:40:THR:OG1	2.34	0.60
44:AX:38:GLU:OE2	57:AA:143(A):C:H4'	2.01	0.60
45:AY:88:LYS:O	45:AY:90:LEU:HD23	2.02	0.60
46:AZ:171:ILE:O	46:AZ:172:ALA:HB2	2.00	0.60
57:AA:1037:G:H1	57:AA:1118:C:H42	1.50	0.60
57:AA:1113:U:H2'	57:AA:1114:G:C8	2.37	0.60
57:AA:2077:A:H2'	57:AA:2078:C:H6	1.67	0.60
57:AA:2881:C:H2'	57:AA:2882:A:H8	1.66	0.60
58:AB:30:C:H2'	58:AB:31:C:O4'	2.02	0.60
17:Br:50:ILE:HD12	17:Br:70:ILE:HD13	1.84	0.60
22:Ba:203:U:H5'	22:Ba:216:G:C2	2.36	0.60
22:Ba:693:G:H2'	22:Ba:694:A:C8	2.36	0.60
22:Ba:1007:C:H2'	22:Ba:1008:C:C6	2.36	0.60
22:Ba:1442(A):G:H2'	40:BT:118:ARG:CD	2.31	0.60
22:Ba:1478:C:O2'	22:Ba:1479:C:H5'	2.02	0.60
28:BE:55:ASN:O	28:BE:57:LYS:N	2.34	0.60
31:BH:11:VAL:CG2	31:BH:50:VAL:HG23	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:50:VAL:CG1	31:BH:51:ARG:N	2.64	0.60
34:BN:93:THR:O	34:BN:94:HIS:HB2	2.01	0.60
40:BT:28:VAL:HG11	40:BT:46:GLU:CD	2.26	0.60
40:BT:65:LYS:HZ2	40:BT:66:VAL:N	2.00	0.60
57:BA:307:G:H21	57:BA:330:A:H62	1.49	0.60
57:BA:1336:A:H2'	57:BA:1337:G:C8	2.35	0.60
57:BA:2789:C:H1'	57:BA:2892:A:C2	2.36	0.60
3:Ad:13:ARG:HD3	3:Ad:38:TYR:O	2.02	0.60
3:Ad:68:TYR:CE2	3:Ad:97:LEU:HD22	2.36	0.60
6:Ag:111:ARG:HD2	6:Ag:123:GLU:HB2	1.83	0.60
22:Aa:527:G:O2'	22:Aa:528:C:H5'	2.02	0.60
22:Aa:777:A:H2'	22:Aa:778:G:C8	2.36	0.60
26:AC:193:PHE:O	26:AC:197:LEU:HG	2.02	0.60
29:AF:32:LEU:O	29:AF:36:VAL:HG23	2.02	0.60
29:AF:119:ARG:HH11	29:AF:119:ARG:HG2	1.66	0.60
30:AG:40:ASN:HD22	30:AG:41:GLN:H	1.48	0.60
36:AP:50:ARG:HG3	36:AP:51:PHE:N	2.16	0.60
38:AR:38:VAL:HB	38:AR:39:PRO:HD3	1.82	0.60
40:AT:102:ILE:HB	40:AT:110:ILE:CD1	2.31	0.60
45:AY:49:VAL:HA	57:AA:483:A:H4'	1.83	0.60
57:AA:2183:C:O2'	57:AA:2184:G:H5'	2.02	0.60
57:AA:2328:A:H2'	57:AA:2329:G:C8	2.37	0.60
2:Bc:99:VAL:O	2:Bc:99:VAL:HG23	2.01	0.60
4:Be:144:THR:O	4:Be:148:VAL:HG23	2.02	0.60
7:Bh:89:PRO:HG2	22:Ba:878:G:H5'	1.81	0.60
7:Bh:101:PRO:HG2	7:Bh:133:LEU:HD11	1.84	0.60
15:Bp:4:ILE:HD12	15:Bp:4:ILE:N	2.17	0.60
16:Bq:63:ARG:HG2	16:Bq:64:PRO:HD2	1.83	0.60
18:Bs:40:ILE:HG21	18:Bs:62:ILE:HG12	1.83	0.60
21:By:45:ARG:NH2	23:Bx:19:U:O2	2.32	0.60
22:Ba:1072:G:H2'	22:Ba:1073:U:C6	2.36	0.60
22:Ba:1372:U:H2'	22:Ba:1373:G:O4'	2.01	0.60
25:Bw:9:G:H5"	25:Bw:47:U:O4	2.00	0.60
30:BG:67:LYS:HZ1	51:B4:3:GLU:HG3	1.67	0.60
32:BI:140:LEU:HD21	32:BI:142:VAL:HG23	1.81	0.60
36:BP:33:ARG:HH12	57:BA:587:C:H3'	1.66	0.60
39:BS:88:ASP:CG	39:BS:89:ARG:N	2.58	0.60
42:BV:19:LYS:CE	42:BV:20:LEU:H	2.15	0.60
42:BV:24:LYS:HA	42:BV:92:THR:HG23	1.84	0.60
44:BX:55:ASN:HB2	44:BX:80:ILE:HD12	1.83	0.60
57:BA:221:A:H4'	57:BA:222:A:O5'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:654(B):C:H2'	57:BA:654(C):G:C8	2.36	0.60
57:BA:2693:A:H2'	57:BA:2694:G:H8	1.67	0.60
1:Ab:216:SER:C	1:Ab:218:ALA:H	2.10	0.60
2:Ac:132:ARG:HG2	2:Ac:136:GLN:HE21	1.66	0.60
2:Ac:132:ARG:HG2	2:Ac:136:GLN:NE2	2.16	0.60
3:Ad:59:ARG:C	3:Ad:61:LYS:H	2.10	0.60
6:Ag:36:LYS:O	6:Ag:39:ALA:HB3	2.02	0.60
9:Aj:3:LYS:HZ2	9:Aj:76:ASN:HA	1.66	0.60
11:Al:47:LYS:HE2	11:Al:48:PRO:N	2.17	0.60
14:Ao:26:GLU:CD	14:Ao:77:ARG:HD2	2.27	0.60
15:Ap:20:VAL:HG21	15:Ap:32:TYR:CB	2.32	0.60
16:Aq:67:LYS:HA	16:Aq:70:ARG:HH12	1.66	0.60
18:As:20:LEU:HA	18:As:23:ASN:HD22	1.64	0.60
18:As:40:ILE:HD13	18:As:62:ILE:CD1	2.30	0.60
22:Aa:1105:A:H2'	22:Aa:1106:G:H8	1.67	0.60
28:AE:78:LEU:O	28:AE:79:ARG:HD2	2.02	0.60
29:AF:34:TRP:CE2	36:AP:12:ALA:HB2	2.37	0.60
30:AG:47:LYS:O	30:AG:51:ARG:HG2	2.02	0.60
35:AO:22:ILE:HD12	57:AA:1952:A:C6	2.37	0.60
38:AR:2:ARG:N	38:AR:2:ARG:NH1	2.36	0.60
40:AT:57:PHE:CD2	40:AT:58:ASN:N	2.64	0.60
55:A8:52:LYS:N	55:A8:53:PRO:HD2	2.16	0.60
57:AA:156:U:H4'	57:AA:157:U:H5"	1.84	0.60
57:AA:523:C:C2'	57:AA:524:U:H5'	2.31	0.60
57:AA:893:C:H2'	57:AA:894:C:C6	2.36	0.60
57:AA:914:C:C2'	57:AA:915:C:H5'	2.32	0.60
57:AA:1291:C:H2'	57:AA:1292:U:C6	2.36	0.60
57:AA:1607:C:H4'	57:AA:1608:A:O5'	2.01	0.60
3:Bd:5:ILE:HA	3:Bd:115:ARG:HH12	1.67	0.60
6:Bg:12:LEU:HD11	6:Bg:28:ASN:HD21	1.67	0.60
12:Bm:65:LYS:CB	12:Bm:66:LEU:CG	2.80	0.60
22:Ba:59:A:H5'	22:Ba:60:A:C5'	2.32	0.60
22:Ba:339:C:OP2	35:BO:97:ARG:NH1	2.35	0.60
22:Ba:946:A:H2'	22:Ba:947:G:C8	2.36	0.60
22:Ba:954:G:H2'	22:Ba:955:U:C6	2.37	0.60
22:Ba:1226:C:H4'	22:Ba:1227:A:OP1	2.02	0.60
27:BD:94:LEU:HD11	27:BD:96:HIS:CE1	2.37	0.60
27:BD:228:PRO:HD3	27:BD:235:GLY:CA	2.31	0.60
28:BE:1:MET:HE2	28:BE:1:MET:H2	1.65	0.60
28:BE:75:VAL:C	28:BE:77:ILE:H	2.10	0.60
30:BG:34:LEU:HD23	30:BG:99:MET:CE	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BJ:80:VAL:C	33:BJ:82:PHE:H	2.10	0.60
38:BR:79:LEU:HD23	38:BR:83:ILE:HB	1.83	0.60
48:B1:11:ARG:HB3	48:B1:11:ARG:NH1	2.17	0.60
55:B8:52:LYS:N	55:B8:53:PRO:HD2	2.16	0.60
57:BA:1607:C:H4'	57:BA:1608:A:O5'	2.02	0.60
57:BA:2521:C:H42	57:BA:2544:G:H1	1.49	0.60
1:Ab:113:HIS:O	1:Ab:117:GLU:HB2	2.01	0.60
3:Ad:79:PHE:CE1	3:Ad:207:TYR:HB2	2.37	0.60
4:Ae:12:LEU:HD13	4:Ae:31:LEU:HB2	1.83	0.60
6:Ag:105:VAL:O	6:Ag:108:ALA:HB3	2.01	0.60
9:Aj:32:ALA:HB2	9:Aj:76:ASN:HB3	1.80	0.60
9:Aj:57:LYS:CB	22:Aa:972:C:H4'	2.32	0.60
19:At:89:ARG:CZ	19:At:104:LEU:HD21	2.32	0.60
22:Aa:1315:U:H2'	22:Aa:1316:G:O4'	2.02	0.60
22:Aa:1349:A:H2'	22:Aa:1350:A:H8	1.67	0.60
31:AH:7:LEU:CD2	31:AH:69:ARG:HD2	2.31	0.60
35:AO:1:MET:HE2	35:AO:32:TYR:CG	2.37	0.60
40:AT:32:TYR:CD2	40:AT:81:PRO:HB2	2.37	0.60
41:AU:57:PHE:C	41:AU:59:ARG:N	2.58	0.60
45:AY:88:LYS:HZ3	45:AY:93:GLY:HA3	1.66	0.60
46:AZ:10:ARG:HD2	46:AZ:36:LYS:HD3	1.84	0.60
46:AZ:24:LEU:HD23	46:AZ:24:LEU:C	2.26	0.60
47:A0:27:GLU:N	47:A0:27:GLU:OE1	2.34	0.60
57:AA:672:C:C2'	57:AA:673:C:C5'	2.79	0.60
57:AA:852:G:O2'	57:AA:853:G:H5'	2.02	0.60
57:AA:1539:G:C2	57:AA:1540:U:H1'	2.37	0.60
1:Bb:207:ALA:C	1:Bb:209:ARG:H	2.08	0.60
3:Bd:100:ARG:NH1	3:Bd:137:SER:HA	2.17	0.60
11:Bl:119:LYS:C	11:Bl:120:TYR:HD1	2.10	0.60
12:Bm:65:LYS:O	12:Bm:70:LEU:HB2	2.02	0.60
12:Bm:108:ARG:N	12:Bm:108:ARG:HD2	2.17	0.60
15:Bp:20:VAL:HG21	15:Bp:32:TYR:CB	2.31	0.60
18:Bs:6:LYS:CG	18:Bs:7:LYS:HE3	2.28	0.60
21:By:23:ARG:HB3	21:By:23:ARG:NH1	2.17	0.60
22:Ba:1315:U:H2'	22:Ba:1316:G:O4'	2.02	0.60
28:BE:64:LYS:HB2	57:BA:2786:U:H4'	1.83	0.60
29:BF:40:GLN:OE1	29:BF:182:ASN:HB2	2.02	0.60
30:BG:41:GLN:HB3	30:BG:43:LEU:CD1	2.31	0.60
36:BP:88:LEU:C	36:BP:90:ARG:N	2.57	0.60
57:BA:654(A):G:C2'	57:BA:654(B):C:H5'	2.31	0.60
57:BA:2029:G:H2'	57:BA:2031:A:OP1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2317:C:H2'	57:BA:2318:G:C5'	2.31	0.60
57:BA:2408:U:H2'	57:BA:2409:G:C8	2.37	0.60
1:Ab:132:LYS:HA	1:Ab:135:GLN:NE2	2.17	0.59
2:Ac:58:GLU:HB2	2:Ac:65:ALA:HB3	1.84	0.59
2:Ac:70:VAL:O	2:Ac:105:GLU:HA	2.01	0.59
2:Ac:134:ILE:CD1	2:Ac:153:VAL:HG23	2.28	0.59
11:Al:53:ARG:HH21	22:Aa:522:C:H41	1.50	0.59
22:Aa:224:C:H2'	22:Aa:225:C:H6	1.67	0.59
27:AD:10:THR:HG23	27:AD:13:ARG:HB3	1.83	0.59
27:AD:240:ALA:HA	57:AA:1971:A:C2	2.37	0.59
28:AE:34:VAL:HG13	28:AE:48:GLN:HE21	1.67	0.59
30:AG:60:LEU:O	30:AG:64:THR:HG22	2.02	0.59
34:AN:1:MET:HG2	34:AN:2:LYS:H	1.66	0.59
34:AN:75:TYR:HA	34:AN:81:GLY:O	2.02	0.59
40:AT:3:ARG:HD3	57:AA:2876:G:H4'	1.84	0.59
40:AT:25:GLY:HA2	40:AT:92:GLY:HA3	1.84	0.59
40:AT:121:ILE:O	40:AT:124:ASP:HB2	2.02	0.59
41:AU:12:ARG:HA	41:AU:15:LYS:HE2	1.83	0.59
45:AY:2:ARG:HA	45:AY:5:MET:HE2	1.84	0.59
45:AY:35:TYR:CE2	45:AY:69:ALA:HB3	2.36	0.59
46:AZ:55:HIS:NE2	46:AZ:135:GLU:HG2	2.16	0.59
47:A0:84:LEU:H	47:A0:84:LEU:HD12	1.67	0.59
57:AA:755:C:H2'	57:AA:756:C:C6	2.37	0.59
57:AA:2795:G:H22	57:AA:2802:G:N2	2.00	0.59
5:Bf:44:GLY:HA2	5:Bf:59:TYR:CE1	2.37	0.59
6:Bg:111:ARG:HH11	6:Bg:111:ARG:HB3	1.67	0.59
15:Bp:72:ARG:HH21	15:Bp:73:LEU:HD21	1.66	0.59
22:Ba:1107:C:C2'	22:Ba:1108:G:H5"	2.31	0.59
22:Ba:1353:G:H2'	22:Ba:1354:C:C6	2.37	0.59
27:BD:30:GLU:HA	27:BD:83:GLU:OE1	2.02	0.59
27:BD:95:LEU:HD12	27:BD:95:LEU:O	2.02	0.59
27:BD:248:SER:HB2	27:BD:249:PRO:HD2	1.84	0.59
28:BE:5:LEU:HB2	28:BE:51:PHE:CD2	2.35	0.59
29:BF:188:ARG:HA	36:BP:7:ARG:HD3	1.83	0.59
30:BG:142:PRO:O	30:BG:144:ILE:N	2.35	0.59
31:BH:54:ARG:HB3	31:BH:65:HIS:HB2	1.82	0.59
31:BH:153:LYS:HD3	31:BH:153:LYS:N	2.04	0.59
32:BI:77:LEU:HD22	32:BI:141:LYS:N	2.17	0.59
32:BI:81:VAL:HG23	32:BI:82:ARG:N	2.16	0.59
34:BN:17:ASP:CB	34:BN:55:VAL:HG12	2.32	0.59
34:BN:58:ASP:C	34:BN:60:ILE:H	2.09	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:47:ILE:HG22	37:BQ:48:GLU:N	2.16	0.59
37:BQ:95:ALA:O	37:BQ:97:VAL:HG23	2.02	0.59
38:BR:57:ARG:O	38:BR:59:ASP:N	2.33	0.59
38:BR:101:ALA:O	38:BR:102:GLU:HB2	2.02	0.59
40:BT:46:GLU:OE2	40:BT:88:ILE:HG13	2.02	0.59
41:BU:74:LEU:CD1	41:BU:74:LEU:H	2.14	0.59
44:BX:35:THR:HG22	44:BX:37:THR:H	1.67	0.59
44:BX:37:THR:HG21	57:BA:143:G:H1'	1.83	0.59
45:BY:13:VAL:HG21	45:BY:72:VAL:HB	1.84	0.59
51:B4:22:ILE:HD12	51:B4:22:ILE:N	2.17	0.59
57:BA:363(E):U:H5'	57:BA:363(F):A:OP2	2.01	0.59
57:BA:863:A:O2'	57:BA:864:G:H5'	2.02	0.59
57:BA:1188:U:O2'	57:BA:1189:A:H5'	2.01	0.59
57:BA:1286:A:O2'	57:BA:1288:U:OP2	2.18	0.59
57:BA:1464:C:H2'	57:BA:1465:G:C8	2.37	0.59
57:BA:2182:G:H2'	57:BA:2183:C:C6	2.37	0.59
57:BA:2259:G:H1'	57:BA:2427:C:C2	2.37	0.59
57:BA:2360:A:H5'	57:BA:2360:A:H8	1.67	0.59
1:Ab:22:LYS:HE2	1:Ab:22:LYS:N	2.16	0.59
1:Ab:207:ALA:C	1:Ab:209:ARG:H	2.10	0.59
14:Ao:66:LEU:H	14:Ao:66:LEU:CD1	2.16	0.59
19:At:23:ARG:HA	19:At:26:ASN:HD21	1.67	0.59
19:At:100:ILE:O	19:At:102:GLY:N	2.35	0.59
22:Aa:106:C:H2'	22:Aa:107:G:H8	1.67	0.59
26:AC:7:ARG:HH22	26:AC:219:MET:HB3	1.66	0.59
27:AD:229:VAL:HG21	57:AA:784:A:C5	2.37	0.59
29:AF:1:MET:O	29:AF:3:GLU:HG2	2.02	0.59
29:AF:160:ASN:C	29:AF:160:ASN:HD22	2.08	0.59
30:AG:109:VAL:HG13	30:AG:113:ARG:HD3	1.84	0.59
32:AI:93:THR:O	32:AI:97:ILE:N	2.35	0.59
32:AI:101:LEU:CD2	32:AI:109:ILE:HG12	2.28	0.59
36:AP:100:LEU:N	36:AP:100:LEU:HD22	2.17	0.59
38:AR:79:LEU:HD23	38:AR:83:ILE:HB	1.84	0.59
42:AV:19:LYS:CE	42:AV:20:LEU:H	2.15	0.59
43:AW:5:ALA:O	43:AW:6:ILE:HB	2.02	0.59
46:AZ:111:VAL:HG12	46:AZ:112:ARG:H	1.66	0.59
57:AA:363(E):U:H5'	57:AA:363(F):A:OP2	2.03	0.59
57:AA:608:A:H2'	57:AA:609:A:C8	2.37	0.59
57:AA:792:G:H5"	57:AA:793:A:H5'	1.83	0.59
57:AA:869:G:O2'	57:AA:870:A:H5'	2.02	0.59
3:Bd:4:TYR:O	3:Bd:5:ILE:HB	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:42:THR:H	22:Ba:1151:A:C5'	2.14	0.59
12:Bm:23:TYR:HB3	12:Bm:67:GLU:HA	1.84	0.59
13:Bn:45:ARG:HH22	22:Ba:1060:C:H5'	1.65	0.59
22:Ba:950:U:H2'	22:Ba:951:G:H8	1.67	0.59
26:BC:38:PHE:CD1	57:BA:2127:G:H4'	2.37	0.59
26:BC:47:LYS:HD3	57:BA:2178:C:H4'	1.84	0.59
30:BG:35:GLU:HB3	30:BG:160:VAL:HG12	1.84	0.59
32:BI:62:LYS:HD2	32:BI:133:HIS:CD2	2.36	0.59
35:BO:22:ILE:HG23	57:BA:1952:A:C2	2.37	0.59
47:B0:27:GLU:OE2	57:BA:856:C:H4'	2.01	0.59
48:B1:67:ILE:N	48:B1:68:PRO:HD2	2.17	0.59
57:BA:1446:C:H2'	57:BA:1447:G:H8	1.67	0.59
57:BA:1839:G:H8	57:BA:1839:G:H5'	1.66	0.59
1:Ab:111:ARG:HH21	1:Ab:114:ARG:HG2	1.67	0.59
14:Ao:33:THR:HG21	14:Ao:85:LEU:HD21	1.84	0.59
17:Ar:46:GLU:HA	17:Ar:46:GLU:OE2	2.02	0.59
19:At:40:ALA:HB2	19:At:55:ILE:HG22	1.84	0.59
22:Aa:295:C:H2'	22:Aa:296:U:C6	2.38	0.59
22:Aa:728:A:H2'	22:Aa:729:A:C8	2.37	0.59
22:Aa:1316:G:H2'	22:Aa:1317:C:H5"	1.83	0.59
27:AD:43:ARG:HH11	27:AD:44:ASN:ND2	2.00	0.59
27:AD:78:LYS:HG3	27:AD:114:GLY:O	2.02	0.59
28:AE:9:VAL:HG13	28:AE:25:VAL:O	2.02	0.59
28:AE:143:ASN:O	57:AA:2052:G:H4'	2.03	0.59
29:AF:157:VAL:HG22	29:AF:194:MET:HA	1.84	0.59
31:AH:67:LEU:HD21	57:AA:2758:A:C4	2.37	0.59
31:AH:97:ARG:O	31:AH:103:LEU:HD12	2.02	0.59
41:AU:112:ARG:HH12	42:AV:46:VAL:CG1	2.14	0.59
44:AX:24:GLY:HA3	44:AX:83:VAL:HG23	1.84	0.59
45:AY:4:LYS:O	45:AY:5:MET:O	2.20	0.59
57:AA:545:C:H2'	57:AA:547:A:C4'	2.33	0.59
57:AA:1885:A:H5'	57:AA:1885:A:H8	1.67	0.59
2:Bc:132:ARG:HG2	2:Bc:136:GLN:HE21	1.67	0.59
12:Bm:108:ARG:NE	12:Bm:114:ARG:CD	2.65	0.59
22:Ba:539:A:H2'	22:Ba:540:G:C8	2.37	0.59
27:BD:34:VAL:HG23	27:BD:35:LYS:N	2.11	0.59
27:BD:268:ARG:HB3	27:BD:268:ARG:HH11	1.66	0.59
29:BF:34:TRP:CE2	36:BP:12:ALA:HB2	2.36	0.59
29:BF:125:LEU:H	29:BF:125:LEU:HD23	1.67	0.59
31:BH:7:LEU:HD22	31:BH:65:HIS:NE2	2.17	0.59
32:BI:73:GLU:HG3	32:BI:74:ASN:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:133:GLN:HG2	34:BN:135:PRO:HD3	1.84	0.59
40:BT:30:VAL:HG11	40:BT:84:GLN:HG2	1.84	0.59
41:BU:12:ARG:HA	41:BU:15:LYS:HE2	1.84	0.59
43:BW:6:ILE:HA	43:BW:103:ILE:O	2.03	0.59
46:BZ:10:ARG:HH21	46:BZ:26:GLY:H	1.49	0.59
50:B3:38:GLU:HA	50:B3:38:GLU:OE2	2.00	0.59
57:BA:740:U:H2'	57:BA:741:G:C8	2.37	0.59
57:BA:845:G:H8	57:BA:845:G:OP2	1.85	0.59
57:BA:1021:A:H2'	57:BA:1023:U:H5'	1.85	0.59
57:BA:1022:G:N2	57:BA:1142(A):A:C2	2.63	0.59
57:BA:1207:C:H2'	57:BA:1208:C:H6	1.66	0.59
2:Ac:157:ILE:C	2:Ac:159:GLY:H	2.09	0.59
3:Ad:128:VAL:O	3:Ad:130:GLY:N	2.35	0.59
5:Af:16:GLN:CD	5:Af:16:GLN:H	2.10	0.59
6:Ag:111:ARG:HH11	6:Ag:111:ARG:HB3	1.67	0.59
8:Ai:107:ARG:HB3	22:Aa:1347:G:C8	2.37	0.59
9:Aj:13:HIS:CD2	22:Aa:1152:A:H5"	2.37	0.59
12:Am:90:LEU:O	12:Am:92:HIS:N	2.30	0.59
22:Aa:954:G:H2'	22:Aa:955:U:C6	2.36	0.59
22:Aa:1352:C:H2'	22:Aa:1353:G:C8	2.36	0.59
25:Aw:48:C:C2	25:Aw:59:A:H1'	2.37	0.59
28:AE:24:THR:HG23	28:AE:184:VAL:CG2	2.30	0.59
28:AE:52:LEU:O	28:AE:74:PRO:HA	2.01	0.59
29:AF:65:TRP:CH2	29:AF:75:HIS:HD2	2.19	0.59
32:AI:94:ALA:CB	32:AI:111:PRO:HA	2.33	0.59
32:AI:109:ILE:HD12	32:AI:109:ILE:N	2.17	0.59
32:AI:127:VAL:HG22	32:AI:139:GLN:CB	2.32	0.59
34:AN:48:MET:H	34:AN:48:MET:CE	2.15	0.59
36:AP:17:LYS:O	36:AP:17:LYS:CG	2.51	0.59
36:AP:101:VAL:HB	36:AP:107:LYS:CA	2.22	0.59
38:AR:7:GLY:C	38:AR:8:ARG:HE	2.10	0.59
45:AY:57:GLN:CG	45:AY:58:GLY:H	2.11	0.59
46:AZ:59:LEU:CD1	46:AZ:69:THR:HG21	2.32	0.59
47:A0:56:ASP:O	47:A0:57:PHE:HB2	2.02	0.59
53:A6:15:GLU:CD	53:A6:44:ARG:NH1	2.60	0.59
57:AA:719:C:O2'	57:AA:720:C:H5'	2.02	0.59
57:AA:848:G:H2'	57:AA:849:A:C8	2.38	0.59
57:AA:2126:A:H4'	57:AA:2127:G:O5'	2.02	0.59
1:Bb:87:ARG:O	1:Bb:223:ILE:HD11	2.02	0.59
7:Bh:5:PRO:O	7:Bh:8:ASP:HB3	2.03	0.59
8:Bi:104:ARG:HH11	8:Bi:104:ARG:HG3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bn:44:LEU:HD12	13:Bn:44:LEU:C	2.27	0.59
14:Bo:66:LEU:H	14:Bo:66:LEU:CD1	2.15	0.59
15:Bp:67:THR:HG21	22:Ba:376:G:OP2	2.03	0.59
18:Bs:48:THR:HG22	18:Bs:61:TYR:CA	2.33	0.59
18:Bs:58:VAL:HG21	18:Bs:75:ALA:CB	2.32	0.59
22:Ba:1255:G:H2'	22:Ba:1255:G:N3	2.16	0.59
22:Ba:1508:G:H2'	22:Ba:1509:C:O4'	2.02	0.59
26:BC:176:VAL:HB	26:BC:189:ASN:HB3	1.85	0.59
30:BG:44:GLY:H	30:BG:88:ILE:HG21	1.66	0.59
30:BG:71:THR:HG21	57:BA:2312:U:C4'	2.32	0.59
32:BI:3:VAL:HG12	32:BI:36:ALA:HB1	1.84	0.59
35:BO:111:PHE:HB3	35:BO:114:ILE:HD13	1.84	0.59
40:BT:31:SER:C	40:BT:32:TYR:CD2	2.80	0.59
40:BT:54:ARG:HG2	40:BT:54:ARG:NH1	2.17	0.59
40:BT:91:ARG:O	40:BT:117:ASP:HB2	2.03	0.59
41:BU:13:LYS:HD3	57:BA:1227:G:OP1	2.01	0.59
52:B5:40:LYS:HZ3	52:B5:46:CYS:HB3	1.65	0.59
57:BA:271(U):G:O2'	57:BA:271(V):G:H5'	2.03	0.59
57:BA:783:A:H8	57:BA:784:A:H4'	1.67	0.59
57:BA:1049:C:N4	57:BA:1111:A:C2	2.70	0.59
57:BA:1173:G:H2'	57:BA:1175:U:C5	2.36	0.59
57:BA:2071:A:H2'	57:BA:2072:G:H8	1.66	0.59
58:BB:70:C:H2'	58:BB:71:C:H6	1.67	0.59
5:Af:61:LEU:O	5:Af:62:TRP:CB	2.51	0.59
13:An:15:LYS:O	13:An:16:PHE:O	2.20	0.59
17:Ar:35:ARG:C	17:Ar:37:VAL:H	2.10	0.59
22:Aa:833:U:H2'	22:Aa:834:C:H6	1.67	0.59
22:Aa:1072:G:H2'	22:Aa:1073:U:C6	2.37	0.59
22:Aa:1442(B):A:H2'	40:AT:118:ARG:HH12	1.65	0.59
27:AD:155:LEU:HD23	27:AD:177:LEU:CD2	2.32	0.59
28:AE:120:TRP:CD2	28:AE:155:LYS:HD3	2.37	0.59
31:AH:7:LEU:HD23	31:AH:69:ARG:HG3	1.83	0.59
35:AO:22:ILE:HG23	57:AA:1952:A:C2	2.37	0.59
38:AR:113:LEU:O	38:AR:113:LEU:HD23	2.03	0.59
40:AT:62:THR:HG22	40:AT:75:ILE:HG12	1.82	0.59
44:AX:8:ILE:HD12	44:AX:8:ILE:H	1.68	0.59
46:AZ:102:LEU:HD21	46:AZ:124:ILE:CG1	2.29	0.59
46:AZ:163:LEU:HD23	46:AZ:163:LEU:H	1.67	0.59
49:A2:16:LEU:O	49:A2:17:SER:HB3	2.03	0.59
53:A6:9:LEU:C	53:A6:9:LEU:HD22	2.27	0.59
53:A6:9:LEU:HD13	53:A6:9:LEU:O	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:286:C:H2'	57:AA:287:C:H6	1.68	0.59
57:AA:407:G:H2'	57:AA:408:G:H8	1.68	0.59
1:Bb:140:HIS:HA	1:Bb:143:GLU:CG	2.33	0.59
7:Bh:55:GLY:O	7:Bh:57:PRO:HD3	2.03	0.59
12:Bm:108:ARG:HH22	22:Ba:1228:C:P	2.25	0.59
22:Ba:45:U:H2'	22:Ba:46:G:C8	2.38	0.59
22:Ba:417:C:O2'	22:Ba:418:C:H5'	2.02	0.59
22:Ba:521:G:O2'	22:Ba:522:C:H5'	2.03	0.59
22:Ba:1502:A:H4'	22:Ba:1503:A:OP2	2.02	0.59
27:BD:181:GLU:CA	27:BD:272:ALA:HB3	2.29	0.59
27:BD:259:THR:HG22	57:BA:1798:U:H5'	1.84	0.59
32:BI:92:VAL:CG1	32:BI:97:ILE:HD11	2.32	0.59
36:BP:33:ARG:NH2	57:BA:587:C:H2'	2.17	0.59
36:BP:101:VAL:HB	36:BP:107:LYS:CA	2.26	0.59
41:BU:9:VAL:O	41:BU:13:LYS:HG2	2.02	0.59
42:BV:46:VAL:HG13	42:BV:47:VAL:N	2.16	0.59
42:BV:51:VAL:CG1	42:BV:52:VAL:H	2.12	0.59
48:B1:51:VAL:HG21	48:B1:74:VAL:HG22	1.85	0.59
49:B2:2:LYS:O	49:B2:6:VAL:HG23	2.01	0.59
55:B8:8:LYS:O	55:B8:12:LYS:HG3	2.02	0.59
57:BA:407:G:H2'	57:BA:408:G:H8	1.67	0.59
57:BA:481:G:H1'	57:BA:506:G:N2	2.18	0.59
57:BA:1106:A:H2'	57:BA:1107:G:C8	2.38	0.59
57:BA:2328:A:H2'	57:BA:2329:G:C8	2.37	0.59
8:Ai:118:LYS:O	8:Ai:119:ALA:HB3	2.03	0.59
18:As:40:ILE:HG21	18:As:62:ILE:HG12	1.84	0.59
20:Au:13:ILE:CG2	22:Aa:1353:G:H5"	2.32	0.59
22:Aa:266:G:C8	22:Aa:266:G:H5'	2.37	0.59
24:Av:42:G:H2'	24:Av:43:A:H8	1.68	0.59
27:AD:246:PRO:HD3	57:AA:1902:C:H5"	1.84	0.59
28:AE:132:HIS:CD2	28:AE:135:HIS:NE2	2.71	0.59
29:AF:117:ARG:HH21	29:AF:187:VAL:HA	1.68	0.59
30:AG:134:GLY:C	30:AG:135:LEU:HD12	2.27	0.59
31:AH:86:GLU:HB3	31:AH:132:ARG:HB3	1.84	0.59
32:AI:92:VAL:CG1	32:AI:97:ILE:HD11	2.33	0.59
34:AN:36:GLY:O	34:AN:39:ARG:HG3	2.03	0.59
36:AP:18:ARG:HD2	57:AA:662:G:P	2.43	0.59
36:AP:83:VAL:HG23	36:AP:105:LEU:HD13	1.83	0.59
44:AX:60:ARG:HH21	54:A7:47:ARG:HH11	1.48	0.59
44:AX:89:ILE:HG22	44:AX:91:ALA:HB3	1.83	0.59
46:AZ:108:PRO:C	46:AZ:110:GLY:H	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2116:G:N7	57:AA:2117:A:C2	2.70	0.59
7:Bh:130:GLY:C	22:Ba:599:C:H4'	2.28	0.59
15:Bp:17:TYR:CE1	15:Bp:41:PRO:HG3	2.37	0.59
19:Bt:100:ILE:O	19:Bt:102:GLY:N	2.35	0.59
22:Ba:57:G:H2'	22:Ba:58:C:C6	2.37	0.59
22:Ba:973:G:H3'	22:Ba:974:A:H5"	1.84	0.59
22:Ba:997:U:H2'	22:Ba:998:G:C8	2.37	0.59
22:Ba:1505:G:H5"	22:Ba:1506:U:H5"	1.83	0.59
30:BG:55:LYS:HG2	30:BG:59:GLU:OE2	2.02	0.59
36:BP:113:LYS:O	36:BP:115:LEU:HD22	2.03	0.59
38:BR:18:LEU:HD21	38:BR:22:ARG:CZ	2.33	0.59
40:BT:3:ARG:HD3	57:BA:2876:G:H4'	1.84	0.59
40:BT:28:VAL:HG12	40:BT:29:ARG:HD3	1.84	0.59
40:BT:78:LEU:C	40:BT:79:HIS:ND1	2.61	0.59
45:BY:4:LYS:O	45:BY:5:MET:O	2.20	0.59
45:BY:81:LYS:HD2	45:BY:96:ILE:HG22	1.84	0.59
57:BA:330:A:O2'	57:BA:331:A:C8	2.55	0.59
57:BA:1582:C:H2'	57:BA:1583:A:C8	2.38	0.59
57:BA:1766:U:O2'	57:BA:1767:C:H5'	2.02	0.59
58:BB:74:U:H2'	58:BB:75:G:O4'	2.02	0.59
1:Ab:9:GLU:CD	1:Ab:9:GLU:C	2.71	0.59
1:Ab:16:HIS:HB3	1:Ab:210:SER:CB	2.32	0.59
1:Ab:85:ALA:HB1	1:Ab:92:TYR:HD2	1.67	0.59
3:Ad:196:LEU:H	3:Ad:196:LEU:CD1	2.13	0.59
8:Ai:15:ALA:HB2	8:Ai:65:VAL:HB	1.85	0.59
10:Ak:21:ILE:CD1	10:Ak:82:VAL:HG13	2.32	0.59
11:Al:22:SER:O	11:Al:24:VAL:N	2.35	0.59
17:Ar:43:PHE:C	17:Ar:51:LEU:HD12	2.28	0.59
22:Aa:879:C:O2'	22:Aa:880:C:H5'	2.02	0.59
22:Aa:1321:C:H5"	22:Aa:1322:C:H2'	1.85	0.59
28:AE:23:VAL:HG12	28:AE:173:VAL:HG21	1.83	0.59
28:AE:116:VAL:HG21	28:AE:122:PHE:CD2	2.37	0.59
30:AG:39:ILE:HD11	30:AG:60:LEU:HD11	1.85	0.59
30:AG:105:LYS:CB	30:AG:142:PRO:HG3	2.32	0.59
30:AG:118:ARG:HH11	30:AG:118:ARG:HG3	1.68	0.59
35:AO:114:ILE:HD12	35:AO:114:ILE:N	2.18	0.59
36:AP:38:GLN:CD	57:AA:943:U:OP2	2.45	0.59
40:AT:30:VAL:HG21	40:AT:84:GLN:H	1.66	0.59
57:AA:221:A:H4'	57:AA:222:A:O5'	2.03	0.59
57:AA:917:A:N1	58:AB:80:U:H4'	2.18	0.59
57:AA:1493:C:H4'	57:AA:1494:A:OP1	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:AB:71:C:H2'	58:AB:72:G:H8	1.66	0.59
7:Bh:6:ILE:H	7:Bh:6:ILE:CD1	2.13	0.59
9:Bj:23:ILE:HG22	9:Bj:23:ILE:O	2.02	0.59
12:Bm:8:GLU:OE2	12:Bm:67:GLU:HG3	2.03	0.59
15:Bp:3:LYS:O	15:Bp:21:VAL:HA	2.02	0.59
22:Ba:192:U:H2'	22:Ba:193:C:C6	2.38	0.59
22:Ba:1321:C:H5"	22:Ba:1322:C:H2'	1.84	0.59
28:BE:120:TRP:CD2	28:BE:155:LYS:HD3	2.37	0.59
28:BE:187:ALA:HB3	57:BA:2729:G:H1'	1.84	0.59
30:BG:17:PRO:O	30:BG:20:ILE:HG13	2.02	0.59
30:BG:56:ALA:HB2	30:BG:153:ARG:NH1	2.12	0.59
30:BG:77:ILE:CG2	30:BG:80:PHE:H	2.15	0.59
32:BI:91:SER:CB	32:BI:121:LYS:HD3	2.32	0.59
32:BI:116:LEU:O	32:BI:117:GLU:HG3	2.02	0.59
36:BP:16:ARG:HH11	36:BP:16:ARG:CA	2.15	0.59
58:BB:7:G:H3'	58:BB:8:U:C5'	2.16	0.59
58:BB:111:G:H2'	58:BB:112:U:O4'	2.02	0.59
1:Ab:70:PHE:O	1:Ab:93:VAL:N	2.36	0.59
1:Ab:193:ASP:OD2	1:Ab:196:LEU:HG	2.03	0.59
1:Ab:196:LEU:CD1	1:Ab:197:VAL:HG23	2.32	0.59
2:Ac:53:ALA:HB2	2:Ac:115:LEU:HD21	1.84	0.59
9:Aj:57:LYS:HG2	22:Aa:972:C:H4'	1.84	0.59
10:Ak:59:TYR:O	10:Ak:62:GLN:HB3	2.03	0.59
21:Ay:44:LEU:HD23	21:Ay:45:ARG:N	2.17	0.59
22:Aa:32:A:H2'	22:Aa:33:A:C8	2.37	0.59
22:Aa:389:A:C2'	22:Aa:390:C:H5'	2.32	0.59
22:Aa:1007:C:H2'	22:Aa:1008:C:H6	1.67	0.59
24:Av:36:U:H2'	24:Av:37:A:H8	1.67	0.59
40:AT:78:LEU:C	40:AT:79:HIS:ND1	2.61	0.59
41:AU:74:LEU:CD1	41:AU:74:LEU:H	2.15	0.59
57:AA:107:C:H2'	57:AA:108:U:H6	1.68	0.59
57:AA:1541:G:H4'	57:AA:1542:A:O4'	2.03	0.59
1:Bb:144:ARG:HB2	1:Bb:148:TYR:CE2	2.37	0.59
1:Bb:167:PRO:HG3	1:Bb:188:ALA:CB	2.32	0.59
3:Bd:49:ARG:HE	3:Bd:49:ARG:CA	2.13	0.59
6:Bg:23:VAL:O	6:Bg:27:ILE:HG13	2.03	0.59
6:Bg:62:PHE:CD1	6:Bg:124:LEU:HD11	2.37	0.59
6:Bg:140:ASP:HA	6:Bg:143:ARG:HH11	1.66	0.59
9:Bj:58:ASP:O	9:Bj:59:SER:C	2.46	0.59
12:Bm:84:ILE:HG22	12:Bm:84:ILE:O	2.03	0.59
28:BE:87:GLU:OE1	28:BE:89:ASP:N	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:65:TRP:HZ3	29:BF:73:ALA:O	1.86	0.59
31:BH:68:THR:O	31:BH:70:THR:N	2.36	0.59
32:BI:68:LEU:HG	32:BI:72:LEU:HD11	1.85	0.59
32:BI:132:PRO:HG2	32:BI:133:HIS:ND1	2.18	0.59
35:BO:64:ARG:O	35:BO:82:ASN:HA	2.03	0.59
38:BR:7:GLY:C	38:BR:8:ARG:HE	2.11	0.59
43:BW:10:VAL:HG12	43:BW:11:ARG:N	2.17	0.59
45:BY:2:ARG:HA	45:BY:5:MET:HE2	1.85	0.59
47:B0:45:PHE:HE2	47:B0:69:PHE:CE2	2.20	0.59
47:B0:84:LEU:H	47:B0:84:LEU:HD12	1.67	0.59
49:B2:43:GLN:O	49:B2:44:LEU:HB2	2.03	0.59
51:B4:11:PRO:HB3	51:B4:25:TYR:CD2	2.37	0.59
57:BA:61:G:H1	57:BA:94:C:H42	1.50	0.59
57:BA:1040:C:N4	57:BA:1115:G:H1	2.01	0.59
57:BA:1146:C:O2'	57:BA:1147:C:H5'	2.03	0.59
57:BA:1286:A:C2'	57:BA:1288:U:OP2	2.51	0.59
57:BA:1603:A:H5'	57:BA:1603:A:H8	1.66	0.59
3:Ad:96:LEU:HD12	3:Ad:96:LEU:N	2.18	0.59
5:Af:43:LEU:HD12	5:Af:43:LEU:N	2.10	0.59
10:Ak:106:LYS:O	10:Ak:107:SER:HB3	2.01	0.59
12:Am:104:ARG:HD2	22:Aa:1226:C:N4	2.18	0.59
14:Ao:18:PHE:O	14:Ao:19:PRO:C	2.46	0.59
15:Ap:17:TYR:CE1	15:Ap:41:PRO:HG3	2.37	0.59
18:As:58:VAL:HG21	18:As:75:ALA:CB	2.33	0.59
22:Aa:123:C:OP1	22:Aa:312:C:H5'	2.03	0.59
22:Aa:203:U:H5"	22:Aa:204:U:OP1	2.03	0.59
22:Aa:1281:U:H4'	22:Aa:1282:C:OP2	2.03	0.59
29:AF:4:VAL:HG11	29:AF:17:ARG:HD3	1.85	0.59
30:AG:98:ARG:HA	30:AG:101:ILE:HD12	1.85	0.59
31:AH:41:MET:HE2	31:AH:43:VAL:HG13	1.83	0.59
32:AI:69:LYS:HA	32:AI:136:VAL:HG11	1.84	0.59
39:AS:48:LEU:HD23	39:AS:82:ILE:HD11	1.85	0.59
40:AT:38:ASN:HD22	40:AT:40:THR:CG2	2.15	0.59
41:AU:44:ASN:HD21	42:AV:75:PHE:HB3	1.67	0.59
46:AZ:108:PRO:HB2	46:AZ:144:LEU:HB2	1.84	0.59
51:A4:42:PHE:HB2	51:A4:43:TYR:HD1	1.68	0.59
52:A5:51:TYR:C	52:A5:53:ALA:H	2.10	0.59
1:Bb:16:HIS:HB3	1:Bb:210:SER:CB	2.31	0.59
1:Bb:55:PHE:CD1	1:Bb:58:ILE:HD12	2.37	0.59
1:Bb:102:LEU:HD12	1:Bb:102:LEU:N	2.16	0.59
1:Bb:114:ARG:O	1:Bb:118:LEU:HG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:207:ALA:C	1:Bb:209:ARG:N	2.60	0.59
3:Bd:128:VAL:O	3:Bd:130:GLY:N	2.35	0.59
3:Bd:170:VAL:CG1	3:Bd:174:LEU:HB2	2.33	0.59
21:By:15:TRP:O	21:By:18:LEU:HB3	2.03	0.59
21:By:61:ARG:CB	21:By:86:VAL:HG21	2.33	0.59
22:Ba:833:U:H2'	22:Ba:834:C:H6	1.67	0.59
22:Ba:1096:C:O2'	22:Ba:1097:C:H5'	2.03	0.59
25:Bw:2:G:H2'	25:Bw:3:C:C6	2.38	0.59
27:BD:229:VAL:HG21	57:BA:784:A:C5	2.37	0.59
28:BE:48:GLN:NE2	28:BE:78:LEU:HD22	2.18	0.59
28:BE:103:ASP:OD2	28:BE:168:MET:HE2	2.03	0.59
30:BG:120:LEU:N	30:BG:179:PRO:O	2.34	0.59
31:BH:41:MET:HG2	31:BH:43:VAL:HG13	1.85	0.59
32:BI:68:LEU:HD11	32:BI:130:TYR:HE2	1.68	0.59
34:BN:2:LYS:HZ2	41:BU:95:LEU:HD21	1.65	0.59
36:BP:101:VAL:CG1	36:BP:106:LEU:HD23	2.33	0.59
39:BS:78:LEU:HD12	39:BS:103:GLU:OE1	2.03	0.59
41:BU:92:ARG:CZ	42:BV:11:GLN:H	2.16	0.59
42:BV:40:LEU:CD2	42:BV:40:LEU:N	2.66	0.59
44:BX:34:ALA:HA	44:BX:38:GLU:OE1	2.02	0.59
57:BA:1494:A:C3'	57:BA:1495:A:H5"	2.32	0.59
57:BA:2373:G:H2'	57:BA:2374:C:C6	2.38	0.59
57:BA:2807:G:C3'	57:BA:2808:U:H5"	2.33	0.59
2:Ac:77:ILE:HG23	2:Ac:84:ILE:HG21	1.85	0.59
3:Ad:4:TYR:O	3:Ad:5:ILE:HB	2.03	0.59
5:Af:44:GLY:HA2	5:Af:59:TYR:CE1	2.37	0.59
6:Ag:18:TYR:CD2	6:Ag:59:LEU:HD22	2.31	0.59
6:Ag:102:ARG:HH12	22:Aa:939:G:H5"	1.66	0.59
22:Aa:1516:G:H2'	22:Aa:1518:A:OP2	2.03	0.59
24:Av:3:C:H2'	24:Av:4:G:H5"	1.85	0.59
24:Av:35:A:H2'	24:Av:36:U:C6	2.37	0.59
29:AF:84:VAL:HG12	29:AF:85:GLY:H	1.68	0.59
30:AG:2:PRO:HA	51:A4:25:TYR:CE2	2.38	0.59
30:AG:40:ASN:ND2	30:AG:41:GLN:H	2.01	0.59
30:AG:83:ARG:CZ	30:AG:84:LYS:NZ	2.66	0.59
33:AJ:54:ALA:C	33:AJ:56:ASN:H	2.09	0.59
34:AN:128:HIS:CE1	34:AN:134:ARG:HD3	2.38	0.59
40:AT:50:ILE:O	40:AT:99:LEU:HD12	2.03	0.59
42:AV:99:ILE:N	42:AV:99:ILE:HD13	2.18	0.59
45:AY:51:VAL:HG12	45:AY:53:PRO:CD	2.22	0.59
46:AZ:150:LEU:CD2	46:AZ:172:ALA:HB3	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:A4:53:GLU:O	51:A4:56:VAL:HG23	2.03	0.59
57:AA:1446:C:H2'	57:AA:1447:G:H8	1.68	0.59
58:AB:60:C:H2'	58:AB:61:G:H8	1.68	0.59
2:Bc:4:LYS:HZ2	22:Ba:1191:A:H5"	1.67	0.59
3:Bd:68:TYR:OH	3:Bd:196:LEU:HD21	2.01	0.59
5:Bf:7:ASN:O	5:Bf:8:ILE:HG13	2.03	0.59
6:Bg:111:ARG:HD2	6:Bg:123:GLU:HB2	1.84	0.59
9:Bj:16:LEU:HD22	9:Bj:16:LEU:O	2.02	0.59
14:Bo:55:GLY:HA2	14:Bo:58:MET:HE3	1.84	0.59
21:By:47:MET:HE3	21:By:50:CYS:SG	2.42	0.59
21:By:52:LYS:CD	21:By:54:LYS:HE3	2.32	0.59
21:By:64:TYR:OH	21:By:73:VAL:HG22	2.02	0.59
22:Ba:542:G:H2'	22:Ba:543:C:H6	1.68	0.59
22:Ba:620:C:H2'	22:Ba:621:A:O4'	2.02	0.59
28:BE:108:SER:O	28:BE:162:ALA:HA	2.03	0.59
32:BI:130:TYR:HD1	32:BI:131:LYS:H	1.48	0.59
34:BN:1:MET:C	34:BN:2:LYS:HG3	2.27	0.59
37:BQ:69:PHE:CE2	57:BA:871:U:H4'	2.37	0.59
38:BR:84:ALA:HB3	38:BR:85:PRO:HD3	1.84	0.59
40:BT:121:ILE:O	40:BT:124:ASP:HB2	2.03	0.59
41:BU:96:ALA:C	41:BU:98:LEU:H	2.11	0.59
49:B2:54:LYS:HB3	49:B2:54:LYS:NZ	2.18	0.59
54:B7:12:ARG:CD	54:B7:46:VAL:HG21	2.26	0.59
55:B8:50:LEU:C	55:B8:53:PRO:HD2	2.28	0.59
57:BA:155:U:C2'	57:BA:156:U:H5"	2.33	0.59
57:BA:1177:A:H5'	57:BA:1178:C:C5	2.38	0.59
57:BA:1244:G:O2'	57:BA:1245:G:H5'	2.03	0.59
57:BA:2360:A:O2'	57:BA:2361:A:O4'	2.20	0.59
2:Ac:33:LEU:HD21	13:An:53:LEU:CD2	2.33	0.58
2:Ac:107:GLN:H	2:Ac:107:GLN:NE2	2.01	0.58
10:Ak:85:ARG:HG2	10:Ak:111:ASP:O	2.03	0.58
12:Am:79:LYS:NZ	12:Am:79:LYS:HB3	2.18	0.58
17:Ar:36:ASN:HB2	17:Ar:40:LEU:HD11	1.85	0.58
18:As:24:ALA:O	18:As:25:LYS:HB2	2.01	0.58
22:Aa:620:C:H2'	22:Aa:621:A:O4'	2.03	0.58
22:Aa:1203:C:H2'	22:Aa:1204:A:C8	2.38	0.58
25:Aw:19:G:H4'	25:Aw:20:U:OP2	2.02	0.58
28:AE:103:ASP:OD2	28:AE:168:MET:HE2	2.03	0.58
35:AO:110:GLY:HA2	35:AO:112:MET:HE2	1.85	0.58
38:AR:97:VAL:O	38:AR:98:LEU:HD23	2.02	0.58
46:AZ:17:ALA:CA	46:AZ:20:ARG:HB2	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:A3:19:GLN:NE2	50:A3:52:HIS:HE1	1.98	0.58
52:A5:54:GLY:N	52:A5:55:ARG:HE	2.00	0.58
55:A8:33:ASN:N	55:A8:36:LYS:HD2	2.17	0.58
57:AA:654(A):G:C2'	57:AA:654(B):C:H5'	2.33	0.58
57:AA:1766:U:O2'	57:AA:1767:C:H5'	2.03	0.58
57:AA:2807:G:C3'	57:AA:2808:U:H5"	2.33	0.58
2:Bc:77:ILE:HG23	2:Bc:84:ILE:HG21	1.85	0.58
2:Bc:97:LYS:O	2:Bc:99:VAL:HG13	2.03	0.58
16:Bq:67:LYS:HA	16:Bq:70:ARG:HH12	1.67	0.58
19:Bt:89:ARG:CZ	19:Bt:104:LEU:HD21	2.32	0.58
20:Bu:13:ILE:CG2	22:Ba:1353:G:H5"	2.33	0.58
25:Bw:51:C:H2'	25:Bw:52:G:C8	2.38	0.58
26:BC:7:ARG:HH22	26:BC:219:MET:HB3	1.68	0.58
27:BD:43:ARG:HH11	27:BD:44:ASN:ND2	2.01	0.58
28:BE:68:ALA:O	28:BE:70:ALA:N	2.29	0.58
30:BG:96:ARG:HH21	30:BG:97:ASP:CG	2.11	0.58
31:BH:70:THR:CG2	31:BH:74:ASN:HD21	2.12	0.58
32:BI:92:VAL:HG13	32:BI:97:ILE:HD11	1.84	0.58
35:BO:1:MET:HE2	35:BO:32:TYR:CG	2.38	0.58
36:BP:47:ASP:HB3	36:BP:48:PRO:CA	2.33	0.58
36:BP:101:VAL:HG12	36:BP:106:LEU:HB3	1.84	0.58
39:BS:36:TYR:CD1	39:BS:36:TYR:N	2.70	0.58
57:BA:769:G:O2'	57:BA:770:G:H5'	2.03	0.58
57:BA:2795:G:H22	57:BA:2802:G:N2	2.00	0.58
2:Ac:84:ILE:HD11	2:Ac:88:ARG:NH2	2.18	0.58
3:Ad:13:ARG:O	3:Ad:16:GLY:N	2.29	0.58
5:Af:24:GLU:HG2	5:Af:28:ARG:HH12	1.68	0.58
7:Ah:130:GLY:C	22:Aa:599:C:H4'	2.28	0.58
9:Aj:82:ILE:O	9:Aj:86:MET:HB3	2.03	0.58
19:At:49:ALA:HB3	19:At:99:LEU:HD12	1.85	0.58
27:AD:248:SER:HB2	27:AD:249:PRO:HD2	1.85	0.58
28:AE:108:SER:HB3	28:AE:165:VAL:HG21	1.84	0.58
32:AI:77:LEU:HD23	32:AI:77:LEU:C	2.28	0.58
34:AN:93:THR:O	34:AN:94:HIS:HB2	2.01	0.58
40:AT:117:ASP:OD2	40:AT:120:ARG:HG3	2.04	0.58
41:AU:92:ARG:HB3	42:AV:11:GLN:HE22	1.67	0.58
45:AY:7:VAL:HB	45:AY:8:LYS:NZ	2.17	0.58
45:AY:37:VAL:O	45:AY:38:ILE:HB	2.01	0.58
48:A1:82:LEU:N	48:A1:82:LEU:CD2	2.65	0.58
49:A2:14:ARG:HH11	49:A2:14:ARG:HG3	1.67	0.58
57:AA:2267:A:H5"	57:AA:2268:A:H5'	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2463:C:O2'	57:AA:2464:C:H5'	2.03	0.58
1:Bb:85:ALA:HB1	1:Bb:92:TYR:HD2	1.67	0.58
2:Bc:58:GLU:HB2	2:Bc:65:ALA:HB3	1.84	0.58
5:Bf:3:ARG:HD3	5:Bf:64:GLN:NE2	2.18	0.58
7:Bh:88:LYS:HB3	7:Bh:89:PRO:HD2	1.84	0.58
8:Bi:95:LYS:HZ3	8:Bi:96:LEU:HD13	1.67	0.58
12:Bm:114:ARG:HA	22:Ba:1228:C:OP1	2.02	0.58
14:Bo:33:THR:HG21	14:Bo:85:LEU:HD21	1.85	0.58
17:Br:46:GLU:OE2	17:Br:46:GLU:HA	2.03	0.58
22:Ba:9:G:H2'	22:Ba:10:A:H8	1.68	0.58
22:Ba:678:U:H2'	22:Ba:679:C:C6	2.38	0.58
22:Ba:688:G:H2'	22:Ba:689:C:H6	1.68	0.58
22:Ba:690:G:H2'	22:Ba:691:G:C8	2.38	0.58
22:Ba:1309:G:C6	22:Ba:1329:A:C2	2.92	0.58
27:BD:78:LYS:HG3	27:BD:114:GLY:O	2.03	0.58
27:BD:239:ARG:O	57:BA:1971:A:H2	1.86	0.58
30:BG:16:ARG:N	30:BG:17:PRO:HD2	2.18	0.58
30:BG:173:LEU:C	30:BG:178:PHE:HD1	2.11	0.58
34:BN:128:HIS:CE1	34:BN:134:ARG:HD3	2.38	0.58
35:BO:64:ARG:HG2	35:BO:79:PHE:CD1	2.38	0.58
36:BP:38:GLN:CD	57:BA:943:U:OP2	2.47	0.58
37:BQ:51:ARG:O	37:BQ:52:VAL:C	2.45	0.58
45:BY:45:VAL:HG12	45:BY:60:PHE:CE2	2.38	0.58
46:BZ:6:LYS:HD3	46:BZ:60:GLU:O	2.03	0.58
55:B8:50:LEU:O	55:B8:51:ALA:HB3	2.03	0.58
57:BA:156:U:H4'	57:BA:157:U:H5"	1.84	0.58
57:BA:2126:A:H4'	57:BA:2127:G:O5'	2.03	0.58
2:Ac:179:ARG:HG2	22:Aa:1112:C:O2	2.03	0.58
3:Ad:59:ARG:HE	3:Ad:59:ARG:CA	1.98	0.58
3:Ad:110:PHE:H	3:Ad:110:PHE:HD1	1.50	0.58
4:Ae:107:ARG:O	4:Ae:108:ALA:C	2.45	0.58
7:Ah:36:LEU:CA	7:Ah:39:LEU:HD23	2.32	0.58
8:Ai:99:LEU:C	8:Ai:101:PHE:H	2.09	0.58
22:Aa:950:U:H2'	22:Aa:951:G:H8	1.69	0.58
22:Aa:1142:G:H2'	22:Aa:1143:G:O4'	2.03	0.58
27:AD:39:LYS:HB2	27:AD:62:TYR:HB2	1.84	0.58
27:AD:218:ARG:HB3	27:AD:219:PRO:HD2	1.84	0.58
28:AE:14:ILE:HG12	28:AE:21:VAL:CG2	2.32	0.58
30:AG:5:VAL:HG13	51:A4:25:TYR:CE1	2.39	0.58
31:AH:124:GLU:CB	31:AH:132:ARG:HG2	2.29	0.58
35:AO:1:MET:HE2	35:AO:32:TYR:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:AR:2:ARG:NH2	57:AA:2724:C:P	2.76	0.58
41:AU:59:ARG:HD3	57:AA:1009:A:C4'	2.32	0.58
46:AZ:67:LEU:HB3	46:AZ:90:VAL:HG13	1.85	0.58
57:AA:839:U:H2'	57:AA:840:C:C6	2.38	0.58
57:AA:2702:U:H4'	57:AA:2703:C:OP1	2.04	0.58
58:AB:74:U:H2'	58:AB:75:G:O4'	2.03	0.58
1:Bb:121:LEU:HD23	1:Bb:124:SER:HB3	1.85	0.58
3:Bd:110:PHE:H	3:Bd:110:PHE:HD1	1.49	0.58
8:Bi:100:GLY:C	8:Bi:102:LEU:N	2.59	0.58
9:Bj:57:LYS:CB	22:Ba:972:C:H4'	2.33	0.58
17:Br:36:ASN:HB3	17:Br:39:VAL:HG21	1.84	0.58
22:Ba:376:G:H2'	22:Ba:377:G:C8	2.37	0.58
22:Ba:975:A:C4'	22:Ba:976:G:H5"	2.22	0.58
22:Ba:1437:C:H2'	22:Ba:1438:G:C8	2.37	0.58
25:Bw:42:G:H2'	25:Bw:43:A:C8	2.37	0.58
28:BE:78:LEU:O	28:BE:79:ARG:HD2	2.03	0.58
29:BF:95:ARG:NH2	57:BA:1247:A:OP1	2.36	0.58
30:BG:67:LYS:HB2	58:BB:42:C:H4'	1.84	0.58
30:BG:131:TYR:O	30:BG:159:VAL:HG12	2.03	0.58
32:BI:77:LEU:HD23	32:BI:141:LYS:HG2	1.85	0.58
32:BI:112:LYS:HA	32:BI:116:LEU:HD22	1.85	0.58
34:BN:91:LEU:HD23	34:BN:98:VAL:HG21	1.84	0.58
35:BO:22:ILE:HD12	57:BA:1952:A:C5	2.37	0.58
36:BP:59:LEU:O	36:BP:59:LEU:HD23	2.02	0.58
40:BT:30:VAL:HG21	40:BT:84:GLN:H	1.66	0.58
44:BX:59:VAL:O	44:BX:60:ARG:C	2.46	0.58
57:BA:545:C:C3'	57:BA:547:A:H5"	2.31	0.58
57:BA:1292:U:H2'	57:BA:1293:C:C6	2.38	0.58
57:BA:1493:C:H4'	57:BA:1494:A:OP1	2.03	0.58
57:BA:1639:U:H2'	57:BA:1640:C:H5"	1.85	0.58
57:BA:2419:U:H2'	57:BA:2420:C:C6	2.38	0.58
3:Ad:170:VAL:CG1	3:Ad:174:LEU:HB2	2.33	0.58
7:Ah:56:LYS:HB2	7:Ah:58:TYR:HE1	1.69	0.58
8:Ai:100:GLY:C	8:Ai:102:LEU:N	2.61	0.58
15:Ap:25:ARG:NH1	22:Aa:134:A:N6	2.50	0.58
18:As:6:LYS:CG	18:As:7:LYS:HE3	2.31	0.58
22:Aa:491:G:O2'	22:Aa:492:G:H5'	2.04	0.58
22:Aa:542:G:H2'	22:Aa:543:C:H6	1.67	0.58
22:Aa:862:C:O2'	22:Aa:863:U:H5'	2.04	0.58
22:Aa:1172:C:H2'	22:Aa:1173:G:C8	2.39	0.58
22:Aa:1255:G:N3	22:Aa:1255:G:H2'	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AC:6:LYS:CB	57:AA:2132:U:H3	2.14	0.58
27:AD:94:LEU:HD11	27:AD:96:HIS:CE1	2.38	0.58
27:AD:106:ILE:O	27:AD:106:ILE:HG23	2.02	0.58
28:AE:34:VAL:CG1	28:AE:48:GLN:HG2	2.33	0.58
28:AE:37:ARG:O	28:AE:45:THR:HA	2.02	0.58
30:AG:20:ILE:O	30:AG:24:GLY:HA2	2.03	0.58
32:AI:73:GLU:HG3	32:AI:74:ASN:N	2.18	0.58
34:AN:58:ASP:C	34:AN:60:ILE:H	2.09	0.58
34:AN:62:VAL:O	34:AN:62:VAL:HG13	2.02	0.58
36:AP:112:LEU:H	36:AP:128:HIS:HD2	1.52	0.58
42:AV:28:GLU:OE1	42:AV:29:PRO:HD2	2.04	0.58
43:AW:15:ARG:NH2	57:AA:1266:G:O5'	2.36	0.58
45:AY:4:LYS:HB2	45:AY:32:PRO:HG3	1.84	0.58
46:AZ:118:GLN:HE22	57:AA:874:G:H5'	1.68	0.58
46:AZ:139:VAL:O	46:AZ:141:VAL:N	2.36	0.58
49:A2:63:VAL:CA	49:A2:66:GLU:HG2	2.33	0.58
55:A8:51:ALA:HA	55:A8:54:GLU:OE2	2.04	0.58
57:AA:648:G:O4'	57:AA:2351:G:H5"	2.02	0.58
57:AA:1485:G:H1'	57:AA:1505:C:N4	2.18	0.58
57:AA:1523:U:H2'	57:AA:1524:G:C8	2.39	0.58
57:AA:1711:C:O2'	57:AA:1712:C:H5'	2.04	0.58
57:AA:2136:C:H2'	57:AA:2137:C:C6	2.38	0.58
57:AA:2189:U:C2'	57:AA:2190:G:H5"	2.33	0.58
57:AA:2801:A:N3	57:AA:2801:A:H2'	2.18	0.58
1:Bb:9:GLU:CD	1:Bb:9:GLU:C	2.71	0.58
1:Bb:22:LYS:HE2	1:Bb:22:LYS:N	2.18	0.58
2:Bc:179:ARG:HG2	22:Ba:1112:C:O2	2.03	0.58
4:Be:107:ARG:O	4:Be:108:ALA:C	2.45	0.58
7:Bh:41:ARG:O	7:Bh:41:ARG:HG2	2.02	0.58
10:Bk:124:LYS:HE2	22:Ba:692:U:OP1	2.03	0.58
11:Bl:119:LYS:O	11:Bl:120:TYR:CB	2.52	0.58
19:Bt:49:ALA:HB3	19:Bt:99:LEU:HD12	1.86	0.58
22:Ba:184:G:C4'	22:Ba:224:C:H4'	2.34	0.58
22:Ba:433:C:H2'	22:Ba:434:U:C6	2.35	0.58
22:Ba:763:G:O2'	22:Ba:764:C:H5'	2.04	0.58
27:BD:24:ILE:HG22	27:BD:91:ARG:HD2	1.85	0.58
28:BE:34:VAL:CG1	28:BE:48:GLN:HG2	2.34	0.58
30:BG:136:ARG:NH2	57:BA:2306:C:H4'	2.18	0.58
30:BG:172:LEU:O	30:BG:176:LEU:HG	2.03	0.58
33:BJ:39:ALA:O	33:BJ:43:ALA:HB3	2.03	0.58
35:BO:20:MET:O	35:BO:41:ALA:HB1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:83:ILE:HG13	40:BT:84:GLN:H	1.67	0.58
42:BV:39:LEU:O	42:BV:40:LEU:HB2	2.03	0.58
44:BX:38:GLU:OE2	57:BA:143(A):C:H4'	2.03	0.58
46:BZ:144:LEU:HD12	46:BZ:150:LEU:CD2	2.33	0.58
57:BA:2567:G:H2'	57:BA:2568:C:C6	2.39	0.58
57:BA:2691:C:H5'	57:BA:2691:C:H6	1.67	0.58
1:Ab:142:LEU:O	1:Ab:142:LEU:HD23	2.03	0.58
2:Ac:64:VAL:HG12	2:Ac:66:VAL:H	1.68	0.58
2:Ac:77:ILE:O	2:Ac:83:ARG:HB3	2.02	0.58
6:Ag:62:PHE:CD1	6:Ag:124:LEU:HD11	2.39	0.58
7:Ah:41:ARG:HG2	7:Ah:41:ARG:O	2.03	0.58
9:Aj:52:GLY:N	22:Aa:1060:C:H4'	2.19	0.58
11:Al:24:VAL:HG12	11:Al:24:VAL:O	2.03	0.58
12:Am:71:ARG:O	12:Am:73:GLU:N	2.37	0.58
22:Aa:41:G:H2'	22:Aa:42:G:H8	1.66	0.58
22:Aa:1430:C:H2'	22:Aa:1431:C:C6	2.38	0.58
27:AD:94:LEU:HB2	27:AD:104:TYR:CE2	2.38	0.58
28:AE:61:ARG:C	28:AE:63:LEU:N	2.61	0.58
30:AG:160:VAL:HG12	30:AG:161:THR:H	1.66	0.58
30:AG:172:LEU:HD23	30:AG:172:LEU:C	2.29	0.58
36:AP:23:PRO:CD	36:AP:33:ARG:CZ	2.71	0.58
40:AT:27:THR:CG2	40:AT:28:VAL:H	2.11	0.58
40:AT:46:GLU:OE2	40:AT:88:ILE:HG13	2.03	0.58
45:AY:43:ASN:HB3	45:AY:62:GLU:OE1	2.04	0.58
45:AY:66:PRO:O	45:AY:67:LEU:HB3	2.02	0.58
46:AZ:132:ASN:O	46:AZ:133:ILE:HD13	2.03	0.58
49:A2:4:SER:HA	49:A2:7:ARG:HH11	1.67	0.58
57:AA:845:G:H8	57:AA:845:G:OP2	1.85	0.58
1:Bb:29:ALA:O	1:Bb:32:ILE:HG22	2.04	0.58
2:Bc:84:ILE:HD11	2:Bc:88:ARG:NH2	2.19	0.58
8:Bi:43:ALA:C	8:Bi:45:ALA:H	2.12	0.58
17:Br:64:ARG:HH21	22:Ba:664:G:P	2.26	0.58
26:BC:6:LYS:CB	57:BA:2132:U:H3	2.14	0.58
35:BO:1:MET:HE2	35:BO:32:TYR:CD2	2.38	0.58
38:BR:2:ARG:NH2	57:BA:2724:C:P	2.76	0.58
40:BT:63:VAL:O	40:BT:73:GLU:HA	2.04	0.58
42:BV:75:PHE:C	42:BV:75:PHE:CD1	2.81	0.58
47:B0:27:GLU:HA	47:B0:67:VAL:O	2.04	0.58
48:B1:56:GLN:HE22	48:B1:85:LEU:HD23	1.64	0.58
57:BA:1040:C:H42	57:BA:1115:G:H1	1.51	0.58
57:BA:1221:C:H2'	57:BA:1221(A):C:H6	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1541:G:H4'	57:BA:1542:A:C5'	2.34	0.58
2:Ac:40:ARG:HG2	2:Ac:55:VAL:HB	1.85	0.58
14:Ao:82:ILE:CG1	14:Ao:87:ILE:HG13	2.24	0.58
15:Ap:28:ARG:HG2	15:Ap:28:ARG:HH11	1.68	0.58
22:Aa:1468:A:H2'	22:Aa:1469:G:O4'	2.04	0.58
26:AC:38:PHE:CD1	57:AA:2127:G:H4'	2.38	0.58
29:AF:4:VAL:HA	29:AF:19:GLU:HB3	1.85	0.58
29:AF:165:ARG:HH11	29:AF:165:ARG:HB2	1.68	0.58
30:AG:117:PHE:CG	30:AG:118:ARG:N	2.68	0.58
31:AH:44:VAL:HG12	31:AH:45:VAL:N	2.18	0.58
32:AI:91:SER:CB	32:AI:121:LYS:HD3	2.33	0.58
34:AN:23:LEU:HB2	34:AN:60:ILE:HG21	1.86	0.58
37:AQ:69:PHE:CE2	57:AA:871:U:H4'	2.39	0.58
40:AT:129:ARG:NH2	40:AT:131:ALA:HB2	2.19	0.58
41:AU:96:ALA:C	41:AU:98:LEU:H	2.11	0.58
41:AU:112:ARG:HH22	42:AV:46:VAL:HG11	1.68	0.58
44:AX:10:ALA:HB1	44:AX:11:PRO:HD2	1.84	0.58
44:AX:60:ARG:NH2	54:A7:47:ARG:HD2	2.18	0.58
49:A2:2:LYS:O	49:A2:6:VAL:HG23	2.04	0.58
53:A6:27:LYS:HB3	53:A6:30:THR:CG2	2.32	0.58
57:AA:544:G:C2	57:AA:547:A:H5'	2.39	0.58
57:AA:654(B):C:H2'	57:AA:654(C):G:C8	2.39	0.58
57:AA:2732:G:H3'	57:AA:2733:A:C5'	2.33	0.58
3:Bd:30:LYS:C	3:Bd:32:ALA:N	2.59	0.58
9:Bj:52:GLY:N	22:Ba:1060:C:H4'	2.19	0.58
17:Br:40:LEU:H	17:Br:40:LEU:HD12	1.68	0.58
21:By:60:TYR:O	21:By:61:ARG:HD3	2.03	0.58
22:Ba:1316:G:H2'	22:Ba:1317:C:H5"	1.84	0.58
24:Bv:64:G:H2'	24:Bv:65:C:C6	2.39	0.58
26:BC:16:ASP:HB3	26:BC:19:LYS:HB3	1.85	0.58
26:BC:38:PHE:CD2	57:BA:2126:A:H5'	2.39	0.58
26:BC:219:MET:HE1	57:BA:2174:C:H1'	1.85	0.58
28:BE:4:ILE:CD1	28:BE:28:ALA:HB1	2.33	0.58
31:BH:89:ILE:HG13	31:BH:129:THR:HA	1.84	0.58
31:BH:148:ILE:O	31:BH:162:ILE:HD11	2.04	0.58
31:BH:155:SER:O	31:BH:157:TYR:N	2.36	0.58
32:BI:8:PRO:HB3	32:BI:14:ASP:N	2.14	0.58
34:BN:36:GLY:O	34:BN:39:ARG:HG3	2.03	0.58
37:BQ:32:TYR:OH	37:BQ:111:GLU:HG3	2.04	0.58
39:BS:48:LEU:HD23	39:BS:82:ILE:HD11	1.85	0.58
41:BU:112:ARG:HH22	42:BV:46:VAL:HG11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:2:GLU:HA	43:BW:64:MET:HE1	1.86	0.58
43:BW:34:ASN:HD21	52:B5:39:MET:HB2	1.69	0.58
46:BZ:66:SER:C	46:BZ:67:LEU:HD22	2.28	0.58
51:B4:28:LYS:HA	51:B4:28:LYS:HE3	1.85	0.58
53:B6:9:LEU:C	53:B6:9:LEU:HD22	2.27	0.58
53:B6:27:LYS:HB3	53:B6:30:THR:CG2	2.32	0.58
57:BA:673:C:O2'	57:BA:674:G:H5'	2.04	0.58
57:BA:1541:G:H1'	57:BA:1542:A:C6	2.38	0.58
57:BA:2189:U:C2'	57:BA:2190:G:H5"	2.32	0.58
57:BA:2401:U:O2'	57:BA:2402:C:H5"	2.04	0.58
57:BA:2753:A:O2'	57:BA:2754:U:H5'	2.02	0.58
1:Ab:17:PHE:O	1:Ab:18:GLY:O	2.20	0.58
1:Ab:80:ILE:CD1	1:Ab:208:ILE:HG23	2.27	0.58
1:Ab:219:VAL:HA	1:Ab:222:ILE:HB	1.86	0.58
2:Ac:15:THR:CG2	2:Ac:16:ARG:HH12	2.13	0.58
3:Ad:43:HIS:O	3:Ad:45:GLN:N	2.36	0.58
6:Ag:79:ARG:HG2	6:Ag:80:VAL:N	2.19	0.58
7:Ah:84:ARG:HH11	7:Ah:84:ARG:HG2	1.69	0.58
8:Ai:47:LEU:HD12	8:Ai:47:LEU:N	2.19	0.58
12:Am:106:ASN:O	12:Am:107:ALA:HB2	2.02	0.58
18:As:48:THR:HG22	18:As:61:TYR:CA	2.34	0.58
19:At:60:GLU:HG3	19:At:81:LYS:HE3	1.86	0.58
22:Aa:59:A:H5'	22:Aa:60:A:C5'	2.33	0.58
22:Aa:975:A:C4'	22:Aa:976:G:H5"	2.24	0.58
25:Aw:41:C:H2'	25:Aw:42:G:H8	1.67	0.58
27:AD:25:THR:HG22	27:AD:26:LYS:CD	2.34	0.58
27:AD:35:LYS:NZ	27:AD:36:PRO:CD	2.65	0.58
27:AD:127:VAL:HA	27:AD:193:VAL:HG13	1.86	0.58
30:AG:53:LEU:HD22	30:AG:53:LEU:N	2.18	0.58
31:AH:41:MET:HE3	31:AH:42:ARG:N	2.17	0.58
36:AP:13:ASN:HD22	36:AP:13:ASN:C	2.11	0.58
39:AS:99:LYS:O	39:AS:101:LEU:N	2.30	0.58
40:AT:31:SER:C	40:AT:32:TYR:CD2	2.82	0.58
41:AU:96:ALA:C	41:AU:98:LEU:N	2.61	0.58
45:AY:81:LYS:HD2	45:AY:96:ILE:HG22	1.85	0.58
46:AZ:67:LEU:HB3	46:AZ:90:VAL:CG1	2.33	0.58
47:A0:27:GLU:HG3	47:A0:68:GLU:HA	1.86	0.58
57:AA:8:A:H2'	57:AA:9:U:C6	2.37	0.58
2:Bc:182:ILE:HG23	2:Bc:202:ILE:C	2.29	0.58
3:Bd:38:TYR:O	3:Bd:38:TYR:HD1	1.86	0.58
8:Bi:88:TYR:O	8:Bi:89:ASN:CB	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Bt:56:MET:HG3	19:Bt:84:LEU:CD1	2.34	0.58
22:Ba:203:U:H5"	22:Ba:204:U:OP1	2.03	0.58
27:BD:25:THR:HG22	27:BD:26:LYS:HD2	1.86	0.58
28:BE:27:LEU:HD22	40:BT:1:MET:CE	2.33	0.58
30:BG:91:ARG:HD2	30:BG:91:ARG:C	2.29	0.58
40:BT:88:ILE:HG22	40:BT:89:VAL:CG2	2.34	0.58
51:B4:42:PHE:HB2	51:B4:43:TYR:HD1	1.68	0.58
54:B7:22:MET:O	54:B7:28:ARG:NH1	2.34	0.58
57:BA:1049:C:H41	57:BA:1111:A:H2	1.51	0.58
57:BA:1983:C:O2'	57:BA:1984:G:H5'	2.03	0.58
57:BA:2376:A:H2'	57:BA:2377:A:O4'	2.03	0.58
1:Ab:95:GLN:NE2	1:Ab:147:LYS:HE2	2.19	0.58
1:Ab:144:ARG:HB2	1:Ab:148:TYR:CE2	2.39	0.58
3:Ad:162:LEU:CD1	3:Ad:181:MET:HG2	2.33	0.58
7:Ah:40:ALA:C	7:Ah:42:GLU:N	2.62	0.58
7:Ah:88:LYS:HB3	7:Ah:89:PRO:HD2	1.86	0.58
8:Ai:95:LYS:HZ3	8:Ai:96:LEU:HD13	1.68	0.58
10:Ak:54:ARG:NH1	25:Aw:39:C:O2'	2.36	0.58
18:As:9:VAL:O	18:As:11:VAL:N	2.36	0.58
22:Aa:952:U:O2'	22:Aa:953:G:H5'	2.04	0.58
22:Aa:957:U:H3	22:Aa:960:U:H5"	1.68	0.58
22:Aa:1118:C:H1'	22:Aa:1179:A:C4	2.38	0.58
25:Aw:19:G:H1	25:Aw:56:C:H42	1.52	0.58
27:AD:26:LYS:O	27:AD:27:THR:HB	2.04	0.58
27:AD:100:GLY:HA2	57:AA:1501:C:H1'	1.84	0.58
28:AE:187:ALA:HB3	57:AA:2729:G:H1'	1.86	0.58
30:AG:130:ASN:HB3	30:AG:159:VAL:O	2.03	0.58
30:AG:131:TYR:O	30:AG:159:VAL:HG12	2.04	0.58
36:AP:33:ARG:NH2	57:AA:587:C:H2'	2.17	0.58
36:AP:40:SER:C	36:AP:41:ARG:HE	2.11	0.58
40:AT:117:ASP:O	40:AT:121:ILE:HG13	2.03	0.58
42:AV:24:LYS:HA	42:AV:92:THR:HG23	1.85	0.58
43:AW:59:VAL:CG1	43:AW:60:ASN:N	2.66	0.58
44:AX:26:TYR:HD2	44:AX:92:LEU:HD12	1.67	0.58
46:AZ:29:TYR:H	46:AZ:29:TYR:HD2	1.52	0.58
46:AZ:39:VAL:HG21	46:AZ:44:PHE:CD2	2.39	0.58
57:AA:409:C:H2'	57:AA:410:G:H8	1.69	0.58
57:AA:612:C:H2'	57:AA:613:G:C5'	2.18	0.58
57:AA:1038:C:C2'	57:AA:1039:G:H5"	2.34	0.58
57:AA:2182:G:H2'	57:AA:2183:C:C6	2.38	0.58
57:AA:2359:C:H2'	57:AA:2360:A:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2577:A:H5"	57:AA:2578:G:H5'	1.86	0.58
58:AB:78:A:C2	58:AB:100:A:C4	2.92	0.58
2:Bc:71:ALA:HB2	2:Bc:106:VAL:HB	1.84	0.58
4:Be:8:GLU:N	4:Be:34:VAL:HG23	2.19	0.58
5:Bf:3:ARG:HH11	5:Bf:3:ARG:HG3	1.68	0.58
6:Bg:32:ARG:HG3	22:Ba:1240:U:C2	2.38	0.58
10:Bk:125:PHE:N	10:Bk:125:PHE:CD1	2.70	0.58
11:Bl:53:ARG:HH21	22:Ba:522:C:H41	1.51	0.58
12:Bm:23:TYR:CE1	12:Bm:71:ARG:HD3	2.39	0.58
19:Bt:56:MET:HG3	19:Bt:84:LEU:HD12	1.86	0.58
22:Ba:32:A:H2'	22:Ba:33:A:C8	2.39	0.58
22:Ba:950:U:H2'	22:Ba:951:G:C8	2.38	0.58
22:Ba:1105:A:H2'	22:Ba:1106:G:H8	1.68	0.58
22:Ba:1279:A:H2'	22:Ba:1279:A:N3	2.19	0.58
22:Ba:1323:G:H4'	22:Ba:1363:C:N3	2.19	0.58
30:BG:143:GLU:N	30:BG:143:GLU:OE1	2.35	0.58
31:BH:110:SER:HB2	57:BA:2653:U:O2'	2.04	0.58
31:BH:124:GLU:CB	31:BH:132:ARG:HG2	2.30	0.58
36:BP:18:ARG:HD2	57:BA:662:G:P	2.43	0.58
36:BP:65:ARG:HH12	55:B8:15:LYS:HB2	1.68	0.58
38:BR:2:ARG:N	38:BR:2:ARG:HD2	2.18	0.58
40:BT:55:ASN:C	40:BT:59:THR:HG22	2.29	0.58
57:BA:608:A:H2'	57:BA:609:A:C8	2.39	0.58
57:BA:755:C:H2'	57:BA:756:C:C6	2.39	0.58
57:BA:1541:G:H4'	57:BA:1542:A:O4'	2.04	0.58
57:BA:1680:U:O2	57:BA:1763:G:H3'	2.04	0.58
57:BA:2232:U:O2'	57:BA:2233:U:H5'	2.04	0.58
57:BA:2261:C:O2'	57:BA:2262:U:H5'	2.04	0.58
58:BB:78:A:C2	58:BB:100:A:C4	2.91	0.58
58:BB:105:A:H2'	58:BB:106:G:O4'	2.04	0.58
3:Ad:59:ARG:HH21	3:Ad:62:GLN:HB2	1.67	0.58
8:Ai:116:LYS:O	8:Ai:118:LYS:N	2.37	0.58
10:Ak:125:PHE:N	10:Ak:125:PHE:CD1	2.72	0.58
18:As:29:ARG:HD2	18:As:29:ARG:N	2.19	0.58
21:Ay:9:GLU:O	21:Ay:10:ARG:C	2.47	0.58
22:Aa:438:G:H2'	22:Aa:494:U:O4	2.03	0.58
22:Aa:1096:C:O2'	22:Aa:1097:C:H5'	2.04	0.58
22:Aa:1262:C:H2'	22:Aa:1263:C:C6	2.39	0.58
27:AD:46:GLN:CD	27:AD:46:GLN:H	2.11	0.58
30:AG:83:ARG:CZ	30:AG:84:LYS:HZ1	2.16	0.58
32:AI:92:VAL:HG22	32:AI:97:ILE:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:92:VAL:HG13	32:AI:97:ILE:HD11	1.86	0.58
36:AP:6:LEU:HD23	36:AP:6:LEU:N	2.16	0.58
52:A5:40:LYS:HZ3	52:A5:46:CYS:HB3	1.69	0.58
52:A5:51:TYR:CE2	52:A5:52:TYR:HB2	2.38	0.58
52:A5:53:ALA:HB3	52:A5:55:ARG:HH21	1.66	0.58
53:A6:48:VAL:HG23	53:A6:49:HIS:N	2.18	0.58
57:AA:1038:C:H3'	57:AA:1039:G:C5'	2.34	0.58
57:AA:2408:U:H2'	57:AA:2409:G:C8	2.39	0.58
3:Bd:9:CYS:SG	3:Bd:31:CYS:O	2.62	0.58
6:Bg:79:ARG:HG2	6:Bg:80:VAL:N	2.19	0.58
7:Bh:89:PRO:HG2	22:Ba:878:G:H5"	1.85	0.58
7:Bh:120:THR:OG1	7:Bh:123:GLU:HG3	2.03	0.58
9:Bj:23:ILE:HG23	9:Bj:85:LEU:HD22	1.86	0.58
10:Bk:26:ASN:HD22	22:Ba:692:U:H5	1.51	0.58
22:Ba:532:A:O4'	22:Ba:532:A:OP2	2.22	0.58
22:Ba:983:A:H5'	22:Ba:984:C:OP2	2.04	0.58
22:Ba:1324:A:C4'	22:Ba:1362:C:H4'	2.33	0.58
22:Ba:1498:U:C4	23:Bx:17:U:H5"	2.39	0.58
27:BD:97:TYR:HB2	27:BD:101:GLU:O	2.03	0.58
27:BD:166:GLN:HE21	27:BD:166:GLN:CA	2.15	0.58
29:BF:25:PRO:HB3	29:BF:119:ARG:HB2	1.85	0.58
36:BP:7:ARG:O	36:BP:10:PRO:HD2	2.04	0.58
36:BP:58:THR:O	36:BP:61:ARG:CZ	2.52	0.58
36:BP:122:PRO:HA	36:BP:141:ALA:O	2.02	0.58
40:BT:25:GLY:HA2	40:BT:92:GLY:HA3	1.85	0.58
40:BT:32:TYR:CD2	40:BT:81:PRO:HB2	2.38	0.58
41:BU:90:VAL:CG1	41:BU:91:ASP:H	2.11	0.58
43:BW:6:ILE:CG1	43:BW:104:THR:HG23	2.33	0.58
45:BY:2:ARG:O	45:BY:4:LYS:N	2.35	0.58
57:BA:648:G:O4'	57:BA:2351:G:H5"	2.04	0.58
3:Ad:36:ARG:HB3	3:Ad:38:TYR:CE1	2.39	0.58
3:Ad:68:TYR:OH	3:Ad:196:LEU:HD21	2.04	0.58
4:Ae:41:VAL:CG2	4:Ae:69:VAL:HG21	2.34	0.58
6:Ag:32:ARG:HG3	22:Aa:1240:U:C2	2.38	0.58
9:Aj:58:ASP:O	9:Aj:59:SER:C	2.46	0.58
12:Am:29:ARG:HD3	12:Am:64:TRP:CZ2	2.39	0.58
16:Aq:33:GLY:O	16:Aq:34:LYS:C	2.47	0.58
16:Aq:53:LEU:HD22	16:Aq:82:MET:HE1	1.86	0.58
17:Ar:50:ILE:HD12	17:Ar:70:ILE:CD1	2.34	0.58
17:Ar:64:ARG:HH21	22:Aa:664:G:P	2.27	0.58
25:Aw:25:C:O2'	25:Aw:26:G:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:228:PRO:HD3	27:AD:235:GLY:HA2	1.86	0.58
31:AH:53:GLU:HA	31:AH:65:HIS:CE1	2.39	0.58
36:AP:58:THR:O	36:AP:61:ARG:CZ	2.51	0.58
39:AS:36:TYR:N	39:AS:36:TYR:CD1	2.72	0.58
41:AU:92:ARG:HH21	42:AV:10:LYS:HG2	1.69	0.58
57:AA:970:C:H2'	57:AA:971:C:H6	1.69	0.58
57:AA:1537:G:H2'	57:AA:1538:G:C8	2.31	0.58
57:AA:1719:G:O2'	57:AA:1720:U:H5'	2.04	0.58
1:Bb:164:VAL:O	1:Bb:186:ALA:HB1	2.04	0.58
2:Bc:7:PRO:O	2:Bc:11:ARG:HG2	2.03	0.58
3:Bd:102:ASP:HA	3:Bd:121:VAL:HG21	1.86	0.58
4:Be:41:VAL:CG2	4:Be:69:VAL:HG21	2.33	0.58
10:Bk:126:ARG:C	10:Bk:128:ALA:N	2.61	0.58
12:Bm:29:ARG:HD3	12:Bm:64:TRP:CD2	2.39	0.58
17:Br:35:ARG:C	17:Br:37:VAL:H	2.11	0.58
18:Bs:14:HIS:CD2	22:Ba:1014:A:H5'	2.39	0.58
18:Bs:42:PRO:HG3	51:B4:50:VAL:HG21	1.86	0.58
21:By:94:ILE:HG23	21:By:95:LEU:N	2.18	0.58
22:Ba:1007:C:H2'	22:Ba:1008:C:H6	1.68	0.58
22:Ba:1404:C:H2'	22:Ba:1405:G:C8	2.39	0.58
28:BE:23:VAL:HG12	28:BE:173:VAL:HG21	1.86	0.58
28:BE:59:VAL:O	28:BE:60:ASN:ND2	2.37	0.58
32:BI:37:VAL:HG12	32:BI:38:LEU:N	2.18	0.58
32:BI:77:LEU:CD2	32:BI:141:LYS:HG2	2.34	0.58
36:BP:50:ARG:HG3	36:BP:51:PHE:N	2.18	0.58
43:BW:9:TYR:H	43:BW:102:HIS:HD2	1.45	0.58
46:BZ:7:ALA:C	46:BZ:8:TYR:CD1	2.81	0.58
46:BZ:26:GLY:HA2	46:BZ:85:HIS:NE2	2.19	0.58
46:BZ:68:PRO:HG2	46:BZ:91:LEU:H	1.68	0.58
57:BA:1464:C:HO2'	57:BA:1528:A:H8	1.49	0.58
57:BA:1904:G:O2'	57:BA:1905:C:H5'	2.04	0.58
2:Ac:182:ILE:HG23	2:Ac:202:ILE:C	2.29	0.57
4:Ae:42:GLY:HA3	4:Ae:66:MET:HG2	1.85	0.57
4:Ae:148:VAL:HG21	7:Ah:107:LEU:HD22	1.86	0.57
8:Ai:99:LEU:C	8:Ai:101:PHE:N	2.62	0.57
13:An:44:LEU:O	13:An:44:LEU:HD12	2.04	0.57
22:Aa:161:A:H2'	22:Aa:162:A:C8	2.38	0.57
22:Aa:373:A:O2'	22:Aa:374:A:H5'	2.02	0.57
22:Aa:665:A:H2'	22:Aa:725:G:N2	2.19	0.57
22:Aa:690:G:H2'	22:Aa:691:G:C8	2.39	0.57
22:Aa:1507:A:H2'	22:Aa:1508:G:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AC:27:ALA:HB1	26:AC:186:LEU:HB2	1.86	0.57
26:AC:166:ASN:HB3	26:AC:172:ILE:HB	1.86	0.57
28:AE:195:LEU:HD12	28:AE:196:VAL:H	1.69	0.57
30:AG:28:VAL:O	30:AG:31:VAL:HG12	2.04	0.57
30:AG:45:GLU:N	30:AG:88:ILE:HG21	2.19	0.57
30:AG:62:LEU:O	30:AG:64:THR:N	2.37	0.57
30:AG:111:LEU:CD1	30:AG:179:PRO:HG3	2.33	0.57
30:AG:111:LEU:HB2	30:AG:112:PRO:HD3	1.86	0.57
30:AG:129:GLY:C	30:AG:130:ASN:CG	2.72	0.57
31:AH:148:ILE:O	31:AH:162:ILE:HD11	2.03	0.57
32:AI:48:GLU:OE1	32:AI:52:ARG:HD3	2.04	0.57
34:AN:2:LYS:HZ2	41:AU:95:LEU:HD21	1.65	0.57
36:AP:65:ARG:HH12	55:A8:15:LYS:HB2	1.69	0.57
37:AQ:32:TYR:CE1	37:AQ:111:GLU:HA	2.37	0.57
46:AZ:57:ILE:HG22	46:AZ:58:VAL:N	2.18	0.57
48:A1:30:VAL:HG23	48:A1:31:GLY:H	1.68	0.57
51:A4:28:LYS:HE3	51:A4:28:LYS:HA	1.85	0.57
55:A8:50:LEU:HA	55:A8:53:PRO:HG3	1.84	0.57
57:AA:197:A:H5'	57:AA:197:A:H8	1.67	0.57
57:AA:922:U:H2'	57:AA:923:C:C6	2.39	0.57
57:AA:1040:C:N4	57:AA:1115:G:H1	2.02	0.57
57:AA:1106:A:H2'	57:AA:1107:G:C8	2.39	0.57
57:AA:1589:C:H2'	57:AA:1590:U:C6	2.38	0.57
57:AA:2419:U:H2'	57:AA:2420:C:C6	2.39	0.57
57:AA:2691:C:H5'	57:AA:2691:C:H6	1.69	0.57
3:Bd:158:ILE:HG22	3:Bd:159:ARG:N	2.19	0.57
6:Bg:53:LYS:O	6:Bg:54:THR:HB	2.02	0.57
6:Bg:151:TYR:HA	6:Bg:153:HIS:CE1	2.38	0.57
11:Bl:119:LYS:C	11:Bl:120:TYR:CD1	2.82	0.57
14:Bo:4:THR:OG1	14:Bo:7:GLU:HG3	2.04	0.57
22:Ba:63:C:H42	22:Ba:104:G:H1	1.52	0.57
22:Ba:114:U:H2'	22:Ba:115:G:C8	2.38	0.57
24:Bv:72:A:C3'	24:Bv:73:A:H5"	2.34	0.57
27:BD:46:GLN:CD	27:BD:46:GLN:H	2.11	0.57
28:BE:59:VAL:O	28:BE:62:PRO:HD2	2.03	0.57
32:BI:62:LYS:NZ	32:BI:133:HIS:HB2	2.18	0.57
32:BI:92:VAL:CG1	32:BI:120:ILE:HD13	2.27	0.57
33:BJ:101:PRO:C	33:BJ:103:GLY:H	2.12	0.57
35:BO:102:VAL:CG2	35:BO:121:VAL:HG22	2.34	0.57
36:BP:112:LEU:H	36:BP:128:HIS:CD2	2.22	0.57
48:B1:45:ASN:HB2	57:BA:2230:G:H1'	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1885:A:H2'	57:BA:1886:C:O4'	2.03	0.57
57:BA:2777:G:C4'	57:BA:2778:A:H5'	2.31	0.57
1:Ab:211:ILE:O	1:Ab:215:LEU:HD23	2.05	0.57
2:Ac:7:PRO:O	2:Ac:11:ARG:HG2	2.04	0.57
4:Ae:55:VAL:O	4:Ae:58:ALA:HB3	2.03	0.57
22:Aa:194:C:C2'	22:Aa:195:A:H5"	2.33	0.57
22:Aa:1248:A:H2'	22:Aa:1249:C:H5'	1.85	0.57
27:AD:259:THR:HG22	57:AA:1798:U:H5'	1.84	0.57
31:AH:110:SER:HB2	57:AA:2653:U:O2'	2.03	0.57
32:AI:5:LEU:HD11	32:AI:19:VAL:HG11	1.86	0.57
34:AN:15:LEU:HD13	34:AN:16:ILE:N	2.19	0.57
34:AN:18:ALA:O	34:AN:21:LYS:N	2.35	0.57
34:AN:28:THR:CG2	34:AN:29:LYS:N	2.68	0.57
36:AP:102:ARG:CB	36:AP:102:ARG:HH21	2.17	0.57
44:AX:24:GLY:CA	44:AX:83:VAL:HG23	2.34	0.57
46:AZ:77:ASP:O	46:AZ:79:ARG:N	2.37	0.57
51:A4:11:PRO:HB3	51:A4:25:TYR:CD2	2.39	0.57
57:AA:61:G:H1	57:AA:94:C:H42	1.52	0.57
57:AA:1853:A:N1	57:AA:2087:G:H1'	2.19	0.57
58:AB:111:G:H2'	58:AB:112:U:O4'	2.03	0.57
1:Bb:193:ASP:OD2	1:Bb:196:LEU:HG	2.05	0.57
2:Bc:107:GLN:H	2:Bc:107:GLN:NE2	2.01	0.57
3:Bd:31:CYS:O	3:Bd:31:CYS:SG	2.62	0.57
10:Bk:33:THR:HB	10:Bk:37:GLY:HA2	1.86	0.57
11:Bl:38:THR:HG22	11:Bl:57:LYS:O	2.04	0.57
16:Bq:76:LEU:HD12	16:Bq:77:VAL:H	1.69	0.57
21:By:94:ILE:O	21:By:95:LEU:C	2.47	0.57
22:Ba:189(J):G:O2'	22:Ba:189(K):U:H5'	2.04	0.57
22:Ba:358:U:H2'	22:Ba:359:U:C6	2.39	0.57
22:Ba:1281:U:H4'	22:Ba:1282:C:OP2	2.03	0.57
25:Bw:1:C:H2'	25:Bw:2:G:C8	2.38	0.57
26:BC:25:GLU:O	26:BC:29:LEU:HB2	2.03	0.57
26:BC:184:GLU:HB2	26:BC:185:LYS:NZ	2.20	0.57
27:BD:68:LYS:O	27:BD:68:LYS:HG3	2.02	0.57
33:BJ:118:THR:O	33:BJ:119:ALA:HB3	2.04	0.57
40:BT:27:THR:OG1	40:BT:28:VAL:N	2.34	0.57
44:BX:24:GLY:CA	44:BX:83:VAL:HG23	2.34	0.57
46:BZ:10:ARG:HH21	46:BZ:26:GLY:N	2.01	0.57
48:B1:56:GLN:HG3	48:B1:87:PRO:HD3	1.86	0.57
55:B8:6:THR:HG21	55:B8:63:PRO:HD3	1.85	0.57
57:BA:332:A:H4'	57:BA:333:G:OP1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:582:G:H2'	57:BA:583:G:C8	2.39	0.57
57:BA:1547:C:H2'	57:BA:1548:C:H6	1.69	0.57
57:BA:1885:A:H8	57:BA:1885:A:H5'	1.69	0.57
57:BA:2870:C:H2'	57:BA:2871:C:O4'	2.04	0.57
1:Ab:87:ARG:O	1:Ab:223:ILE:HD11	2.05	0.57
1:Ab:124:SER:OG	1:Ab:125:PRO:HD2	2.03	0.57
6:Ag:140:ASP:HA	6:Ag:143:ARG:HH11	1.68	0.57
9:Aj:3:LYS:O	9:Aj:100:THR:HG23	2.04	0.57
9:Aj:23:ILE:HG23	9:Aj:85:LEU:HD22	1.87	0.57
21:Ay:47:MET:HB3	21:Ay:48:PRO:CD	2.33	0.57
22:Aa:46:G:O2'	22:Aa:365:U:H1'	2.05	0.57
22:Aa:376:G:H2'	22:Aa:377:G:C8	2.38	0.57
22:Aa:1051:C:H2'	22:Aa:1052:U:C6	2.39	0.57
28:AE:119:ARG:HG2	28:AE:160:TYR:HB2	1.86	0.57
30:AG:39:ILE:CD1	30:AG:92:VAL:HG12	2.33	0.57
30:AG:57:ALA:HA	30:AG:90:LEU:HD23	1.86	0.57
32:AI:81:VAL:HG23	32:AI:82:ARG:N	2.18	0.57
32:AI:116:LEU:O	32:AI:117:GLU:HG3	2.05	0.57
34:AN:133:GLN:HG2	34:AN:135:PRO:HD3	1.84	0.57
36:AP:112:LEU:H	36:AP:128:HIS:CD2	2.22	0.57
40:AT:30:VAL:HG11	40:AT:84:GLN:HG2	1.86	0.57
40:AT:83:ILE:HG13	40:AT:84:GLN:H	1.69	0.57
44:AX:35:THR:HG22	44:AX:36:LYS:N	2.18	0.57
47:A0:73:GLY:O	47:A0:75:LEU:N	2.36	0.57
55:A8:34:TRP:HB2	57:AA:2420:C:OP1	2.05	0.57
57:AA:1948:G:O2'	57:AA:1949:G:H5'	2.03	0.57
14:Bo:26:GLU:CD	14:Bo:77:ARG:HD2	2.29	0.57
18:Bs:9:VAL:O	18:Bs:11:VAL:N	2.36	0.57
19:Bt:60:GLU:HG3	19:Bt:81:LYS:HE3	1.86	0.57
22:Ba:1118:C:H1'	22:Ba:1179:A:C4	2.39	0.57
22:Ba:1376:U:H2'	22:Ba:1377:A:C8	2.39	0.57
28:BE:111:ARG:HD2	28:BE:160:TYR:CD1	2.38	0.57
28:BE:129:HIS:HA	57:BA:1675:C:O2	2.04	0.57
28:BE:142:GLY:HA3	57:BA:2052:G:O4'	2.04	0.57
29:BF:122:LYS:HE2	29:BF:122:LYS:CA	2.33	0.57
30:BG:5:VAL:HG12	30:BG:104:GLU:OE2	2.05	0.57
32:BI:28:ASN:C	32:BI:32:PRO:HG2	2.29	0.57
46:BZ:48:PHE:HA	46:BZ:51:ALA:HB3	1.87	0.57
57:BA:935:C:H2'	57:BA:936:C:H6	1.69	0.57
57:BA:1882:C:H5'	57:BA:1883:G:OP2	2.04	0.57
57:BA:2469:A:H2	57:BA:2481:G:H21	1.50	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BB:60:C:H2'	58:BB:61:G:H8	1.69	0.57
1:Ab:95:GLN:HE21	1:Ab:147:LYS:HE2	1.69	0.57
2:Ac:64:VAL:HG11	2:Ac:66:VAL:HG23	1.85	0.57
6:Ag:102:ARG:HD3	22:Aa:940:C:OP1	2.03	0.57
22:Aa:688:G:H2'	22:Aa:689:C:H6	1.70	0.57
22:Aa:950:U:H2'	22:Aa:951:G:C8	2.39	0.57
22:Aa:1513:A:H2'	22:Aa:1514:C:H6	1.70	0.57
26:AC:184:GLU:HB2	26:AC:185:LYS:NZ	2.20	0.57
30:AG:60:LEU:HD12	30:AG:68:PRO:HG3	1.86	0.57
31:AH:62:LYS:HB3	57:AA:2749:A:H4'	1.86	0.57
31:AH:94:TYR:CZ	31:AH:160:LYS:HD3	2.40	0.57
32:AI:68:LEU:HG	32:AI:72:LEU:HD11	1.86	0.57
34:AN:91:LEU:HD23	34:AN:98:VAL:HG21	1.86	0.57
44:AX:35:THR:HG22	44:AX:37:THR:H	1.69	0.57
49:A2:51:ARG:HB2	49:A2:55:ARG:HH21	1.70	0.57
55:A8:61:LEU:CD1	55:A8:62:LEU:N	2.65	0.57
57:AA:1040:C:H42	57:AA:1115:G:H1	1.52	0.57
57:AA:1464:C:O2'	57:AA:1528:A:H8	1.85	0.57
57:AA:1678:G:H22	57:AA:1989:G:H22	1.49	0.57
57:AA:1680:U:O2	57:AA:1763:G:H3'	2.04	0.57
57:AA:1904:G:O2'	57:AA:1905:C:H5'	2.04	0.57
57:AA:2086:U:H2'	57:AA:2087:G:C8	2.39	0.57
57:AA:2373:G:H2'	57:AA:2374:C:C6	2.39	0.57
1:Bb:124:SER:OG	1:Bb:125:PRO:HD2	2.05	0.57
2:Bc:44:GLU:HA	2:Bc:52:LEU:HD11	1.86	0.57
4:Be:64:ARG:HG3	4:Be:64:ARG:HH11	1.68	0.57
22:Ba:1130:A:C2	22:Ba:1146:A:C4	2.92	0.57
26:BC:27:ALA:HB1	26:BC:186:LEU:HB2	1.85	0.57
26:BC:193:PHE:O	26:BC:197:LEU:HG	2.03	0.57
27:BD:155:LEU:HD23	27:BD:177:LEU:CD2	2.35	0.57
28:BE:44:TYR:O	28:BE:45:THR:HB	2.03	0.57
28:BE:60:ASN:OD1	28:BE:61:ARG:HB3	2.05	0.57
36:BP:46:LYS:HG2	36:BP:52:GLU:OE2	2.04	0.57
36:BP:101:VAL:CG2	36:BP:102:ARG:N	2.67	0.57
37:BQ:109:VAL:HG12	37:BQ:113:GLN:CB	2.34	0.57
40:BT:22:PHE:N	40:BT:22:PHE:CD2	2.67	0.57
41:BU:102:GLU:HG3	42:BV:2:PHE:CE1	2.39	0.57
44:BX:60:ARG:HE	54:B7:47:ARG:NH1	2.01	0.57
54:B7:24:THR:HG23	54:B7:27:GLY:H	1.70	0.57
57:BA:588:U:H2'	57:BA:589:C:C6	2.38	0.57
57:BA:712:G:O2'	57:BA:713:G:H5'	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2650:U:O2'	57:BA:2651:C:H5'	2.05	0.57
57:BA:2742:C:O2'	57:BA:2743:C:H5'	2.04	0.57
1:Ab:44:LEU:HD12	1:Ab:44:LEU:H	1.68	0.57
7:Ah:55:GLY:O	7:Ah:57:PRO:HD3	2.04	0.57
8:Ai:47:LEU:N	8:Ai:47:LEU:CD1	2.68	0.57
11:Al:119:LYS:O	11:Al:120:TYR:CB	2.53	0.57
18:As:5:LEU:HD23	22:Aa:1319:A:OP2	2.04	0.57
22:Aa:184:G:C4'	22:Aa:224:C:H4'	2.34	0.57
22:Aa:521:G:O2'	22:Aa:522:C:H5'	2.04	0.57
22:Aa:1442(A):G:C3'	22:Aa:1442(B):A:H5'	2.34	0.57
24:Av:4:G:HO2'	24:Av:5:G:H8	1.53	0.57
26:AC:16:ASP:HB3	26:AC:19:LYS:HB3	1.86	0.57
27:AD:144:ALA:HB3	27:AD:192:THR:CG2	2.35	0.57
28:AE:75:VAL:C	28:AE:77:ILE:H	2.11	0.57
29:AF:206:ILE:HG22	29:AF:207:GLY:N	2.20	0.57
32:AI:126:TYR:H	32:AI:140:LEU:HD22	1.70	0.57
36:AP:101:VAL:CB	36:AP:107:LYS:HA	2.24	0.57
40:AT:35:LYS:HZ3	40:AT:41:ARG:HH21	1.51	0.57
46:AZ:111:VAL:HG12	46:AZ:112:ARG:N	2.19	0.57
57:AA:27:G:N2	57:AA:512:G:C2'	2.68	0.57
57:AA:99:U:H4'	57:AA:102:G:H1'	1.87	0.57
57:AA:1207:C:H2'	57:AA:1208:C:H6	1.69	0.57
57:AA:1839:G:H8	57:AA:1839:G:H5'	1.69	0.57
57:AA:2317:C:H2'	57:AA:2318:G:C5'	2.32	0.57
57:AA:2544:G:H8	57:AA:2544:G:O5'	1.88	0.57
58:AB:105:A:H2'	58:AB:106:G:O4'	2.04	0.57
1:Bb:44:LEU:H	1:Bb:44:LEU:HD12	1.69	0.57
2:Bc:40:ARG:HG2	2:Bc:55:VAL:HB	1.86	0.57
2:Bc:79:ARG:HH11	2:Bc:79:ARG:HG3	1.69	0.57
2:Bc:189:ALA:HB3	2:Bc:196:LEU:HB2	1.87	0.57
3:Bd:152:SER:HA	3:Bd:155:LEU:HG	1.86	0.57
8:Bi:15:ALA:HB2	8:Bi:65:VAL:HB	1.85	0.57
10:Bk:111:ASP:HA	17:Br:84:LYS:HE2	1.87	0.57
11:Bl:18:VAL:O	11:Bl:19:ARG:HB2	2.05	0.57
11:Bl:45:PRO:HG3	11:Bl:53:ARG:HD3	1.87	0.57
12:Bm:90:LEU:O	12:Bm:91:ARG:CB	2.52	0.57
12:Bm:106:ASN:O	12:Bm:107:ALA:HB2	2.05	0.57
21:By:76:ILE:O	21:By:77:SER:HB3	2.04	0.57
22:Ba:626:U:H2'	22:Ba:627:G:H8	1.70	0.57
22:Ba:680:C:O2'	22:Ba:681:C:H5'	2.04	0.57
27:BD:270:ILE:C	27:BD:271:ILE:HG12	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:4:VAL:HA	29:BF:19:GLU:HB3	1.86	0.57
29:BF:9:ILE:HG23	29:BF:12:LEU:C	2.30	0.57
30:BG:12:TYR:HB3	30:BG:16:ARG:HG3	1.86	0.57
31:BH:44:VAL:HG12	31:BH:45:VAL:N	2.19	0.57
32:BI:101:LEU:CD2	32:BI:109:ILE:HG12	2.32	0.57
34:BN:35:ARG:O	34:BN:37:LYS:N	2.37	0.57
34:BN:48:MET:H	34:BN:48:MET:CE	2.17	0.57
34:BN:133:GLN:HG2	34:BN:134:ARG:N	2.15	0.57
40:BT:90:GLN:O	40:BT:91:ARG:C	2.47	0.57
41:BU:27:LEU:CD2	41:BU:31:SER:HB2	2.29	0.57
44:BX:60:ARG:NH2	54:B7:47:ARG:HD2	2.18	0.57
46:BZ:67:LEU:HD12	46:BZ:68:PRO:HD2	1.85	0.57
57:BA:612:C:H2'	57:BA:613:G:C5'	2.18	0.57
57:BA:2086:U:H2'	57:BA:2087:G:C8	2.40	0.57
57:BA:2101:G:H2'	57:BA:2102:U:O4'	2.04	0.57
57:BA:2116:G:N7	57:BA:2117:A:C2	2.72	0.57
57:BA:2136:C:H2'	57:BA:2137:C:C6	2.39	0.57
57:BA:2201:C:HO2'	57:BA:2202:C:H5'	1.70	0.57
57:BA:2289:G:H2'	57:BA:2290:G:H8	1.69	0.57
2:Ac:36:ASP:OD2	2:Ac:57:ILE:HD12	2.04	0.57
2:Ac:44:GLU:HA	2:Ac:52:LEU:HD11	1.86	0.57
3:Ad:49:ARG:HE	3:Ad:49:ARG:CA	2.14	0.57
3:Ad:72:GLU:HG2	22:Aa:545:C:H5"	1.85	0.57
5:Af:10:LEU:HD12	5:Af:10:LEU:N	2.19	0.57
21:Ay:55:LEU:HB3	21:Ay:58:SER:HB3	1.86	0.57
26:AC:213:VAL:O	26:AC:225:ILE:HD12	2.05	0.57
27:AD:210:GLY:O	27:AD:211:ARG:CB	2.52	0.57
30:AG:108:ASN:O	51:A4:36:CYS:HA	2.04	0.57
32:AI:27:ARG:HH11	32:AI:27:ARG:HG3	1.70	0.57
32:AI:116:LEU:HG	32:AI:117:GLU:N	2.19	0.57
36:AP:86:LYS:HB2	36:AP:117:GLU:O	2.04	0.57
36:AP:102:ARG:HH21	36:AP:102:ARG:HB2	1.70	0.57
37:AQ:134:ARG:HD3	46:AZ:122:ARG:HH21	1.69	0.57
39:AS:92:TYR:O	39:AS:93:LYS:HB3	2.05	0.57
39:AS:93:LYS:O	39:AS:93:LYS:HG3	2.05	0.57
45:AY:96:ILE:CG2	45:AY:99:CYS:HB3	2.35	0.57
48:A1:53:VAL:O	48:A1:54:ALA:C	2.46	0.57
53:A6:27:LYS:HD2	53:A6:30:THR:CB	2.32	0.57
57:AA:1204:A:N1	57:AA:1241:A:H2	2.03	0.57
57:AA:1362:C:O2'	57:AA:1363:C:H5'	2.05	0.57
57:AA:2071:A:H2'	57:AA:2072:G:H8	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:103:THR:HA	1:Bb:180:LEU:HD11	1.86	0.57
2:Bc:90:GLU:HA	2:Bc:93:LYS:HB2	1.87	0.57
3:Bd:79:PHE:CE1	3:Bd:207:TYR:HB2	2.40	0.57
3:Bd:162:LEU:CD1	3:Bd:181:MET:HG2	2.33	0.57
5:Bf:10:LEU:HD12	5:Bf:10:LEU:N	2.20	0.57
6:Bg:41:ARG:HH11	6:Bg:41:ARG:HG3	1.69	0.57
9:Bj:50:ILE:HG22	9:Bj:60:ARG:HD3	1.84	0.57
22:Ba:161:A:H2'	22:Ba:162:A:C8	2.39	0.57
22:Ba:224:C:H2'	22:Ba:225:C:H6	1.68	0.57
22:Ba:545:C:O2'	22:Ba:546:G:H5'	2.05	0.57
26:BC:21:TYR:C	26:BC:225:ILE:HG22	2.30	0.57
28:BE:61:ARG:C	28:BE:63:LEU:N	2.62	0.57
30:BG:71:THR:HG22	30:BG:72:ARG:N	2.20	0.57
30:BG:85:GLY:O	30:BG:86:MET:HB3	2.03	0.57
30:BG:178:PHE:O	30:BG:180:PHE:N	2.37	0.57
31:BH:70:THR:O	31:BH:72:ILE:N	2.36	0.57
32:BI:77:LEU:HD23	32:BI:77:LEU:C	2.30	0.57
32:BI:100:ALA:O	32:BI:103:ARG:N	2.37	0.57
34:BN:30:ILE:HG22	34:BN:34:LEU:HD21	1.86	0.57
40:BT:8:LYS:HA	40:BT:11:GLU:OE1	2.05	0.57
45:BY:3:VAL:H	45:BY:5:MET:HE3	1.69	0.57
51:B4:9:LEU:HA	51:B4:26:SER:O	2.04	0.57
53:B6:19:ARG:HG3	57:BA:2399:G:O2'	2.04	0.57
57:BA:613:G:H8	57:BA:613:G:C5'	2.17	0.57
57:BA:839:U:H2'	57:BA:840:C:C6	2.40	0.57
57:BA:1019:U:O2'	57:BA:1021:A:C2	2.51	0.57
57:BA:1464:C:H2'	57:BA:1465:G:H8	1.68	0.57
57:BA:1999:C:H5"	57:BA:2723:C:O2'	2.04	0.57
57:BA:2771:C:O2	57:BA:2771:C:H2'	2.05	0.57
58:BB:11:C:OP2	58:BB:12:C:C5	2.58	0.57
1:Ab:114:ARG:O	1:Ab:118:LEU:HG	2.04	0.57
1:Ab:121:LEU:HD23	1:Ab:124:SER:HB3	1.86	0.57
3:Ad:139:ARG:HG2	3:Ad:139:ARG:NH1	2.19	0.57
5:Af:2:ARG:CZ	5:Af:69:GLU:HG3	2.34	0.57
10:Ak:124:LYS:HE2	22:Aa:692:U:OP1	2.04	0.57
12:Am:84:ILE:HG22	12:Am:84:ILE:O	2.04	0.57
22:Aa:1133:G:H22	22:Aa:1143:G:H1'	1.70	0.57
22:Aa:1279:A:H2'	22:Aa:1279:A:N3	2.19	0.57
26:AC:21:TYR:C	26:AC:225:ILE:HG22	2.30	0.57
27:AD:165:ILE:HD13	27:AD:175:LEU:CD2	2.34	0.57
28:AE:63:LEU:O	28:AE:65:GLY:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:128:SER:OG	28:AE:129:HIS:N	2.32	0.57
30:AG:6:ALA:HB3	30:AG:104:GLU:OE1	2.05	0.57
30:AG:180:PHE:O	30:AG:182:LYS:N	2.36	0.57
32:AI:11:ASN:C	32:AI:12:LEU:HD23	2.30	0.57
35:AO:64:ARG:O	35:AO:82:ASN:HA	2.04	0.57
37:AQ:66:ILE:O	37:AQ:66:ILE:HG13	2.03	0.57
40:AT:28:VAL:HG12	40:AT:29:ARG:HD3	1.85	0.57
40:AT:90:GLN:O	40:AT:91:ARG:C	2.47	0.57
43:AW:50:VAL:HG13	43:AW:105:VAL:HG21	1.86	0.57
47:A0:45:PHE:HE2	47:A0:69:PHE:HE2	1.53	0.57
55:A8:56:GLU:O	55:A8:58:ILE:N	2.37	0.57
57:AA:626:U:H5'	57:AA:627:A:C5'	2.34	0.57
57:AA:1503:U:O2'	57:AA:1504:C:H5'	2.05	0.57
57:AA:2025:C:H2'	57:AA:2026:C:C6	2.38	0.57
57:AA:2101:G:H2'	57:AA:2102:U:O4'	2.05	0.57
57:AA:2415:G:H2'	57:AA:2416:C:C6	2.40	0.57
57:AA:2688:U:H1'	57:AA:2721:A:N6	2.20	0.57
1:Bb:97:TRP:CH2	1:Bb:176:GLU:HG3	2.39	0.57
1:Bb:142:LEU:HD23	1:Bb:142:LEU:O	2.04	0.57
5:Bf:2:ARG:CZ	5:Bf:69:GLU:HG3	2.34	0.57
8:Bi:63:ILE:CD1	8:Bi:81:ILE:HD11	2.29	0.57
8:Bi:116:LYS:O	8:Bi:118:LYS:N	2.38	0.57
9:Bj:34:VAL:HG13	9:Bj:73:ASP:O	2.05	0.57
22:Ba:1003:G:H22	22:Ba:1038:C:H42	1.52	0.57
30:BG:46:ALA:HB3	30:BG:82:LEU:CD1	2.35	0.57
30:BG:81:LYS:O	30:BG:82:LEU:O	2.23	0.57
30:BG:109:VAL:O	30:BG:113:ARG:N	2.38	0.57
31:BH:53:GLU:HA	31:BH:65:HIS:CE1	2.40	0.57
32:BI:127:VAL:HG13	32:BI:138:ILE:O	2.05	0.57
34:BN:10:GLU:OE2	34:BN:11:PRO:HD2	2.04	0.57
36:BP:125:VAL:O	36:BP:145:PRO:HD2	2.04	0.57
38:BR:58:GLY:HA2	38:BR:80:PHE:HE1	1.69	0.57
40:BT:106:SER:C	40:BT:107:ASP:CG	2.73	0.57
47:B0:25:ARG:HA	47:B0:29:GLN:HE22	1.68	0.57
47:B0:27:GLU:HG3	47:B0:68:GLU:HA	1.86	0.57
54:B7:8:ASN:HD22	54:B7:9:ARG:N	2.02	0.57
57:BA:1528:A:H2'	57:BA:1528:A:N3	2.20	0.57
57:BA:1796:U:H2'	57:BA:1797:C:C6	2.39	0.57
57:BA:1809:A:H2'	57:BA:1810:A:C8	2.39	0.57
57:BA:2702:U:H4'	57:BA:2703:C:OP1	2.04	0.57
1:Ab:52:GLU:CG	1:Ab:56:ARG:HH12	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:185:ILE:CG2	1:Ab:199:TYR:HB2	2.34	0.57
6:Ag:23:VAL:O	6:Ag:27:ILE:HG13	2.04	0.57
8:Ai:18:PHE:HD1	8:Ai:62:TYR:CD2	2.23	0.57
10:Ak:115:PRO:C	10:Ak:117:ASN:H	2.13	0.57
15:Ap:43:LYS:HG3	15:Ap:48:TRP:CD2	2.39	0.57
16:Aq:63:ARG:HG2	16:Aq:64:PRO:CD	2.35	0.57
19:At:97:ALA:O	19:At:99:LEU:HG	2.05	0.57
22:Aa:63:C:H42	22:Aa:104:G:H1	1.52	0.57
22:Aa:114:U:H2'	22:Aa:115:G:C8	2.39	0.57
22:Aa:678:U:H2'	22:Aa:679:C:C6	2.39	0.57
22:Aa:1131:G:H2'	22:Aa:1132:C:C6	2.40	0.57
25:Aw:28:C:H2'	25:Aw:29:G:C8	2.39	0.57
26:AC:219:MET:O	57:AA:2175:C:H4'	2.04	0.57
27:AD:97:TYR:HB2	27:AD:101:GLU:O	2.05	0.57
31:AH:136:ILE:HD12	31:AH:136:ILE:H	1.68	0.57
39:AS:42:ASP:O	39:AS:43:GLU:HB2	2.05	0.57
47:A0:27:GLU:HA	47:A0:67:VAL:O	2.04	0.57
53:A6:38:LYS:HD3	57:AA:2344:U:OP1	2.05	0.57
57:AA:2476:A:C2'	57:AA:2477:C:H5"	2.35	0.57
57:AA:2709:G:O2'	57:AA:2710:C:H5'	2.05	0.57
2:Bc:34:LEU:O	2:Bc:38:ARG:HG2	2.04	0.57
3:Bd:209:ARG:HG3	3:Bd:209:ARG:HH11	1.70	0.57
16:Bq:33:GLY:O	16:Bq:34:LYS:C	2.48	0.57
22:Ba:1082:G:O2'	22:Ba:1083:U:H5'	2.04	0.57
22:Ba:1131:G:H2'	22:Ba:1132:C:C6	2.40	0.57
22:Ba:1510:U:H2'	22:Ba:1511:G:C8	2.39	0.57
33:BJ:60:ARG:C	33:BJ:62:ALA:H	2.11	0.57
41:BU:68:ALA:O	41:BU:71:GLN:HB3	2.05	0.57
41:BU:74:LEU:H	41:BU:74:LEU:HD13	1.69	0.57
42:BV:28:GLU:OE1	42:BV:29:PRO:HD2	2.05	0.57
42:BV:38:LEU:O	42:BV:39:LEU:HD13	2.04	0.57
44:BX:53:LYS:H	44:BX:82:GLN:HB3	1.70	0.57
46:BZ:53:ILE:CD1	46:BZ:99:TYR:HB2	2.35	0.57
48:B1:12:PRO:HB3	48:B1:43:TYR:HD2	1.70	0.57
48:B1:45:ASN:CB	57:BA:2230:G:H1'	2.33	0.57
50:B3:19:GLN:NE2	50:B3:52:HIS:HE1	2.01	0.57
57:BA:409:C:H2'	57:BA:410:G:H8	1.68	0.57
57:BA:545:C:H2'	57:BA:547:A:C4'	2.34	0.57
57:BA:954:G:N2	57:BA:964:C:H1'	2.20	0.57
57:BA:1947:C:H2'	57:BA:1948:G:H5"	1.87	0.57
57:BA:2476:A:C2'	57:BA:2477:C:H5"	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2648:C:H2'	57:BA:2649:U:C6	2.40	0.57
1:Ab:29:ALA:O	1:Ab:32:ILE:HG22	2.03	0.57
3:Ad:97:LEU:O	3:Ad:97:LEU:HD23	2.03	0.57
9:Aj:40:LEU:HB3	9:Aj:69:ASN:HB2	1.87	0.57
9:Aj:50:ILE:CG2	9:Aj:60:ARG:HD3	2.35	0.57
12:Am:111:LYS:CE	22:Aa:1227:A:OP2	2.52	0.57
14:Ao:64:ARG:HH11	14:Ao:64:ARG:HG3	1.69	0.57
22:Aa:983:A:H5'	22:Aa:984:C:OP2	2.05	0.57
22:Aa:1271:G:H5'	22:Aa:1314:C:H5"	1.87	0.57
28:AE:4:ILE:CD1	28:AE:28:ALA:HB1	2.33	0.57
28:AE:34:VAL:HG11	28:AE:78:LEU:CD2	2.34	0.57
32:AI:82:ARG:HG2	32:AI:145:VAL:CG1	2.32	0.57
32:AI:92:VAL:HG22	32:AI:97:ILE:HG13	1.87	0.57
34:AN:10:GLU:OE2	34:AN:11:PRO:HD2	2.05	0.57
38:AR:18:LEU:HD21	38:AR:22:ARG:CZ	2.34	0.57
42:AV:39:LEU:HB3	42:AV:47:VAL:HG11	1.87	0.57
45:AY:76:CYS:CB	45:AY:96:ILE:HD11	2.28	0.57
57:AA:582:G:H2'	57:AA:583:G:C8	2.39	0.57
57:AA:1244:G:O2'	57:AA:1245:G:H5'	2.05	0.57
57:AA:1582:C:H2'	57:AA:1583:A:C8	2.39	0.57
57:AA:1853:A:H2'	57:AA:1854:A:C8	2.40	0.57
58:AB:16:G:O2'	58:AB:17:C:H5'	2.03	0.57
1:Bb:233:SER:HB2	1:Bb:234:PRO:CD	2.28	0.57
3:Bd:59:ARG:HH21	3:Bd:62:GLN:HB2	1.70	0.57
4:Be:7:GLU:HG2	4:Be:112:LEU:HD22	1.86	0.57
4:Be:50:GLU:CB	4:Be:53:LEU:HD12	2.33	0.57
7:Bh:84:ARG:O	7:Bh:135:CYS:HB2	2.03	0.57
9:Bj:82:ILE:O	9:Bj:86:MET:HB3	2.05	0.57
10:Bk:115:PRO:C	10:Bk:117:ASN:H	2.13	0.57
14:Bo:9:GLN:O	14:Bo:10:LYS:C	2.48	0.57
14:Bo:76:GLU:C	14:Bo:78:TYR:H	2.12	0.57
18:Bs:9:VAL:O	18:Bs:9:VAL:HG12	2.05	0.57
22:Ba:389:A:C2'	22:Ba:390:C:H5'	2.34	0.57
22:Ba:1248:A:H2'	22:Ba:1249:C:H5'	1.86	0.57
28:BE:63:LEU:O	28:BE:65:GLY:N	2.38	0.57
32:BI:101:LEU:HB3	32:BI:109:ILE:HD11	1.85	0.57
37:BQ:12:GLN:CG	37:BQ:73:PRO:HD2	2.30	0.57
39:BS:99:LYS:O	39:BS:101:LEU:N	2.30	0.57
45:BY:26:LYS:O	45:BY:27:VAL:C	2.48	0.57
52:B5:51:TYR:CG	52:B5:52:TYR:N	2.65	0.57
57:BA:420:C:H2'	57:BA:421:U:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1014:U:H2'	57:BA:1015:G:C5'	2.34	0.57
57:BA:1502:C:H2'	57:BA:1502:C:O2	2.03	0.57
57:BA:1853:A:N1	57:BA:2087:G:H1'	2.19	0.57
57:BA:2392:A:H2	57:BA:2424:C:N4	2.02	0.57
57:BA:2688:U:H1'	57:BA:2721:A:N6	2.20	0.57
57:BA:2709:G:O2'	57:BA:2710:C:H5'	2.05	0.57
4:Ae:144:THR:O	4:Ae:148:VAL:HG23	2.05	0.57
10:Ak:125:PHE:N	10:Ak:125:PHE:HD1	2.03	0.57
11:Al:20:LYS:HB3	11:Al:20:LYS:NZ	2.20	0.57
22:Aa:45:U:H2'	22:Aa:46:G:H8	1.69	0.57
22:Aa:541:G:O2'	22:Aa:542:G:H5'	2.05	0.57
22:Aa:848:C:O2'	22:Aa:849:C:H5'	2.05	0.57
27:AD:270:ILE:O	27:AD:271:ILE:HG23	2.05	0.57
28:AE:59:VAL:O	28:AE:60:ASN:ND2	2.38	0.57
30:AG:2:PRO:HG3	51:A4:11:PRO:HD3	1.86	0.57
31:AH:106:THR:HG22	31:AH:112:PRO:HB3	1.86	0.57
34:AN:30:ILE:HG22	34:AN:34:LEU:HD21	1.86	0.57
36:AP:111:ARG:HH21	36:AP:111:ARG:HG3	1.68	0.57
40:AT:65:LYS:HZ2	40:AT:65:LYS:CA	2.18	0.57
57:AA:528:A:C2	57:AA:2043:C:C4'	2.83	0.57
57:AA:709:U:H2'	57:AA:710:G:C8	2.39	0.57
57:AA:1547:C:H2'	57:AA:1548:C:H6	1.70	0.57
3:Bd:96:LEU:HD12	3:Bd:96:LEU:N	2.20	0.57
3:Bd:101:LEU:HB2	3:Bd:138:TYR:HB3	1.87	0.57
5:Bf:24:GLU:HG2	5:Bf:28:ARG:HH12	1.68	0.57
10:Bk:21:ILE:HD11	10:Bk:82:VAL:HG13	1.87	0.57
16:Bq:53:LEU:HD22	16:Bq:82:MET:HE1	1.85	0.57
22:Ba:393:A:O2'	22:Ba:394:G:H5'	2.05	0.57
22:Ba:491:G:O2'	22:Ba:492:G:H5'	2.04	0.57
22:Ba:710:G:H2'	22:Ba:711:G:H8	1.70	0.57
22:Ba:952:U:O2'	22:Ba:953:G:H5'	2.05	0.57
22:Ba:1133:G:H22	22:Ba:1143:G:H1'	1.70	0.57
22:Ba:1410:G:C4	22:Ba:1491:G:N2	2.73	0.57
25:Bw:5:G:H22	25:Bw:68:C:N4	2.03	0.57
26:BC:39:ASP:OD1	26:BC:178:LYS:HB3	2.03	0.57
26:BC:213:VAL:O	26:BC:225:ILE:HD12	2.05	0.57
30:BG:181:ARG:O	30:BG:182:LYS:C	2.48	0.57
31:BH:86:GLU:HB3	31:BH:132:ARG:HB3	1.85	0.57
35:BO:119:PRO:HB2	40:BT:68:TYR:CE2	2.40	0.57
36:BP:101:VAL:HG23	36:BP:102:ARG:N	2.19	0.57
37:BQ:35:VAL:CG1	37:BQ:130:LYS:HE2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:66:ILE:O	37:BQ:66:ILE:HG13	2.03	0.57
41:BU:112:ARG:HH12	42:BV:46:VAL:CG1	2.18	0.57
48:B1:3:LYS:HG3	48:B1:4:VAL:N	2.20	0.57
55:B8:30:ARG:NH1	57:BA:2419:U:O4	2.37	0.57
57:BA:272(E):G:C2	57:BA:364:C:N3	2.73	0.57
57:BA:1916:A:H5'	57:BA:1917:U:OP2	2.05	0.57
57:BA:2801:A:H2'	57:BA:2801:A:N3	2.19	0.57
2:Ac:47:LEU:HD11	2:Ac:68:VAL:HG11	1.86	0.56
4:Ae:100:VAL:O	4:Ae:100:VAL:HG23	2.04	0.56
6:Ag:47:CYS:O	6:Ag:50:ILE:HB	2.05	0.56
7:Ah:8:ASP:O	7:Ah:11:THR:N	2.38	0.56
11:Al:48:PRO:C	11:Al:49:ASN:HD22	2.13	0.56
12:Am:82:MET:HB2	12:Am:93:ARG:NH1	2.20	0.56
17:Ar:37:VAL:HG23	17:Ar:38:GLU:N	2.14	0.56
22:Aa:634:C:H2'	22:Aa:635:G:H8	1.69	0.56
22:Aa:1324:A:C4'	22:Aa:1362:C:H4'	2.34	0.56
22:Aa:1442(A):G:H2'	40:AT:118:ARG:HD2	1.86	0.56
23:Ax:13:A:H2'	23:Ax:14:A:C4'	2.35	0.56
27:AD:25:THR:HG22	27:AD:26:LYS:HD2	1.87	0.56
27:AD:222:ARG:HD3	57:AA:1828:G:O6	2.04	0.56
28:AE:111:ARG:HD2	28:AE:160:TYR:CD1	2.39	0.56
31:AH:20:ALA:HB1	31:AH:21:PRO:HD3	1.87	0.56
32:AI:68:LEU:HD11	32:AI:130:TYR:HE2	1.70	0.56
32:AI:88:ILE:HG22	32:AI:89:TYR:N	2.20	0.56
34:AN:133:GLN:HG2	34:AN:134:ARG:N	2.14	0.56
35:AO:4:PRO:O	35:AO:5:GLN:CB	2.52	0.56
36:AP:59:LEU:CA	36:AP:61:ARG:NH1	2.56	0.56
40:AT:34:VAL:HG12	40:AT:35:LYS:N	2.19	0.56
41:AU:92:ARG:CZ	42:AV:11:GLN:H	2.18	0.56
42:AV:19:LYS:HB3	42:AV:94:LEU:O	2.05	0.56
48:A1:51:VAL:HG22	48:A1:52:ARG:N	2.20	0.56
57:AA:2232:U:O2'	57:AA:2233:U:H5'	2.05	0.56
1:Bb:134:GLU:O	1:Bb:138:LEU:HB2	2.05	0.56
1:Bb:168:THR:HA	1:Bb:171:ALA:HB2	1.87	0.56
1:Bb:219:VAL:HA	1:Bb:222:ILE:HB	1.87	0.56
8:Bi:37:PHE:HB3	8:Bi:43:ALA:CB	2.34	0.56
21:By:33:VAL:HG13	21:By:37:PRO:HA	1.86	0.56
22:Ba:1438:G:H2'	22:Ba:1439:C:C6	2.40	0.56
23:Bx:13:A:H2'	23:Bx:14:A:C4'	2.35	0.56
27:BD:10:THR:HG23	27:BD:13:ARG:HB3	1.86	0.56
27:BD:186:HIS:CD2	27:BD:188:GLU:H	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:61:ARG:HG3	57:BA:2787:C:H1'	1.86	0.56
28:BE:101:ARG:O	28:BE:201:THR:HG22	2.05	0.56
28:BE:195:LEU:HD12	28:BE:196:VAL:H	1.70	0.56
29:BF:83:PHE:O	29:BF:85:GLY:N	2.38	0.56
30:BG:86:MET:HB3	30:BG:87:PRO:HD3	1.86	0.56
31:BH:41:MET:HE3	31:BH:42:ARG:N	2.19	0.56
34:BN:28:THR:CG2	34:BN:29:LYS:N	2.67	0.56
38:BR:100:LEU:HD22	38:BR:100:LEU:N	2.08	0.56
45:BY:87:LYS:HG3	45:BY:88:LYS:N	2.19	0.56
45:BY:95:LYS:NZ	45:BY:100:ALA:HB1	2.20	0.56
46:BZ:59:LEU:HG	46:BZ:69:THR:HG21	1.86	0.56
48:B1:89:GLU:HA	48:B1:92:LYS:HB3	1.85	0.56
57:BA:332:A:O2'	57:BA:334:C:OP2	2.18	0.56
57:BA:528:A:C2	57:BA:2043:C:C4'	2.84	0.56
57:BA:648:G:O2'	57:BA:649:G:H5'	2.04	0.56
57:BA:2077:A:H2'	57:BA:2078:C:H6	1.70	0.56
57:BA:2206:G:H3'	57:BA:2206:G:N3	2.20	0.56
7:Ah:29:SER:HB3	7:Ah:32:LYS:HG3	1.86	0.56
8:Ai:47:LEU:C	8:Ai:49:PRO:HD2	2.30	0.56
12:Am:40:ASN:ND2	12:Am:43:THR:HG23	2.18	0.56
13:An:15:LYS:HB3	13:An:16:PHE:HD2	1.70	0.56
19:At:56:MET:HG3	19:At:84:LEU:HD12	1.86	0.56
26:AC:39:ASP:OD1	26:AC:178:LYS:HB3	2.04	0.56
28:AE:69:LYS:NZ	28:AE:90:THR:N	2.53	0.56
28:AE:129:HIS:HA	57:AA:1675:C:O2	2.05	0.56
29:AF:25:PRO:HB3	29:AF:119:ARG:HB2	1.87	0.56
29:AF:74:ARG:HD3	57:AA:674:G:H1'	1.86	0.56
30:AG:60:LEU:C	30:AG:60:LEU:HD13	2.29	0.56
30:AG:72:ARG:HG3	30:AG:87:PRO:HD2	1.87	0.56
31:AH:41:MET:HE2	31:AH:43:VAL:HG12	1.87	0.56
31:AH:153:LYS:HD3	31:AH:153:LYS:N	2.04	0.56
31:AH:155:SER:O	31:AH:157:TYR:N	2.38	0.56
32:AI:6:LEU:O	32:AI:7:GLU:C	2.49	0.56
32:AI:77:LEU:HD23	32:AI:141:LYS:HG2	1.87	0.56
36:AP:7:ARG:O	36:AP:10:PRO:HD2	2.05	0.56
36:AP:101:VAL:HG23	36:AP:102:ARG:N	2.20	0.56
40:AT:2:ASN:O	40:AT:3:ARG:C	2.47	0.56
40:AT:106:SER:HA	40:AT:110:ILE:HG12	1.87	0.56
45:AY:26:LYS:O	45:AY:27:VAL:C	2.47	0.56
45:AY:27:VAL:HG12	45:AY:29:GLU:OE1	2.05	0.56
46:AZ:40:ASP:OD1	46:AZ:42:VAL:HG12	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:A8:50:LEU:CD1	55:A8:51:ALA:N	2.67	0.56
57:AA:654(D):G:O6	57:AA:654(R):C:H1'	2.05	0.56
57:AA:769:G:O2'	57:AA:770:G:H5'	2.05	0.56
57:AA:1541:G:H1'	57:AA:1542:A:C6	2.40	0.56
57:AA:1541:G:H4'	57:AA:1542:A:C5'	2.34	0.56
57:AA:2360:A:H5'	57:AA:2360:A:H8	1.69	0.56
57:AA:2704:C:H2'	57:AA:2705:A:O4'	2.04	0.56
1:Bb:53:ARG:NH1	1:Bb:199:TYR:HD2	2.03	0.56
1:Bb:171:ALA:HA	1:Bb:174:VAL:CG2	2.35	0.56
3:Bd:61:LYS:HD2	3:Bd:207:TYR:OH	2.05	0.56
4:Be:101:ILE:HD13	4:Be:101:ILE:H	1.70	0.56
15:Bp:20:VAL:CG2	15:Bp:32:TYR:HB2	2.36	0.56
17:Br:50:ILE:HD11	17:Br:70:ILE:HG21	1.85	0.56
22:Ba:46:G:O2'	22:Ba:365:U:H1'	2.04	0.56
22:Ba:506:G:H2'	22:Ba:507:C:C6	2.40	0.56
22:Ba:542:G:O2'	22:Ba:543:C:H5'	2.05	0.56
22:Ba:957:U:H3	22:Ba:960:U:H5"	1.70	0.56
22:Ba:961:U:O2'	22:Ba:962:C:H5'	2.04	0.56
29:BF:123:LEU:HD12	29:BF:124:LEU:N	2.16	0.56
29:BF:161:GLU:O	29:BF:165:ARG:HG3	2.05	0.56
32:BI:109:ILE:HG22	32:BI:110:ASP:N	2.10	0.56
37:BQ:43:THR:HG1	37:BQ:46:GLN:HG3	1.70	0.56
45:BY:4:LYS:HG3	45:BY:5:MET:N	2.19	0.56
45:BY:28:LYS:NZ	45:BY:28:LYS:N	2.47	0.56
48:B1:50:ARG:NH2	57:BA:2200:C:OP2	2.37	0.56
49:B2:64:LEU:HD11	49:B2:68:ARG:HH12	1.69	0.56
53:B6:48:VAL:HG23	53:B6:49:HIS:N	2.18	0.56
57:BA:544:G:C2	57:BA:547:A:H5'	2.40	0.56
57:BA:1169:G:H1	57:BA:1180:C:H42	1.53	0.56
57:BA:1419:A:O2'	57:BA:1420:U:H5"	2.05	0.56
57:BA:2704:C:H2'	57:BA:2705:A:O4'	2.05	0.56
1:Ab:44:LEU:HD12	1:Ab:44:LEU:N	2.19	0.56
4:Ae:64:ARG:HG3	4:Ae:64:ARG:HH11	1.70	0.56
6:Ag:85:TYR:CD1	6:Ag:154:TYR:HE1	2.23	0.56
6:Ag:152:ALA:C	6:Ag:154:TYR:H	2.14	0.56
8:Ai:37:PHE:HB3	8:Ai:43:ALA:CB	2.35	0.56
10:Ak:20:TYR:CD1	22:Aa:707:C:H4'	2.41	0.56
10:Ak:26:ASN:HD22	22:Aa:692:U:H5	1.52	0.56
10:Ak:126:ARG:C	10:Ak:128:ALA:N	2.61	0.56
11:Al:38:THR:HG22	11:Al:57:LYS:O	2.05	0.56
11:Al:92:ASP:HB2	22:Aa:523:A:N1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:Ap:51:VAL:O	15:Ap:53:VAL:N	2.38	0.56
16:Aq:45:HIS:HB2	16:Aq:65:ILE:CD1	2.35	0.56
19:At:23:ARG:HB2	22:Aa:323:U:H5'	1.86	0.56
22:Aa:180:U:H2'	22:Aa:181:G:C5'	2.35	0.56
22:Aa:349:A:O2'	22:Aa:350:G:H5'	2.04	0.56
22:Aa:542:G:O2'	22:Aa:543:C:H5'	2.05	0.56
22:Aa:1023:G:N3	22:Aa:1023:G:H2'	2.20	0.56
22:Aa:1054:C:O2	22:Aa:1054:C:C2'	2.52	0.56
22:Aa:1307:U:H2'	22:Aa:1308:U:H6	1.67	0.56
22:Aa:1309:G:C6	22:Aa:1329:A:C2	2.93	0.56
26:AC:206:LYS:HB2	57:AA:1860:G:O3'	2.06	0.56
27:AD:30:GLU:HA	27:AD:83:GLU:OE1	2.04	0.56
27:AD:117:VAL:HG21	27:AD:128:GLY:C	2.29	0.56
28:AE:60:ASN:OD1	28:AE:61:ARG:HB3	2.05	0.56
28:AE:65:GLY:HA2	28:AE:70:ALA:CB	2.36	0.56
28:AE:101:ARG:O	28:AE:201:THR:HG22	2.04	0.56
29:AF:83:PHE:O	29:AF:85:GLY:N	2.38	0.56
29:AF:95:ARG:NH2	57:AA:1247:A:OP1	2.38	0.56
29:AF:157:VAL:HA	29:AF:176:LEU:O	2.05	0.56
29:AF:164:ARG:HG2	29:AF:164:ARG:NH1	2.20	0.56
32:AI:88:ILE:CD1	32:AI:120:ILE:HG21	2.22	0.56
34:AN:58:ASP:O	34:AN:60:ILE:HG13	2.05	0.56
35:AO:98:VAL:HG22	35:AO:118:ALA:HA	1.87	0.56
36:AP:97:PRO:HA	36:AP:100:LEU:HD23	1.88	0.56
36:AP:122:PRO:HA	36:AP:141:ALA:O	2.05	0.56
37:AQ:39:PRO:CD	37:AQ:99:PRO:HG3	2.32	0.56
38:AR:58:GLY:HA2	38:AR:80:PHE:HE1	1.70	0.56
39:AS:78:LEU:HD12	39:AS:103:GLU:OE1	2.05	0.56
40:AT:2:ASN:O	40:AT:4:GLY:N	2.39	0.56
42:AV:75:PHE:CD1	42:AV:75:PHE:C	2.82	0.56
43:AW:29:LEU:HD21	43:AW:33:ARG:NH2	2.19	0.56
45:AY:17:SER:O	57:AA:310:A:OP1	2.22	0.56
45:AY:87:LYS:HG3	45:AY:88:LYS:N	2.20	0.56
46:AZ:19:ARG:HH12	46:AZ:84:GLU:C	2.13	0.56
47:A0:23:VAL:HA	47:A0:38:VAL:CG2	2.32	0.56
47:A0:25:ARG:HA	47:A0:29:GLN:HE22	1.70	0.56
47:A0:48:GLY:H	47:A0:51:VAL:HB	1.69	0.56
49:A2:10:LEU:O	49:A2:11:GLU:C	2.48	0.56
51:A4:46:GLN:O	51:A4:47:GLN:HG2	2.05	0.56
52:A5:51:TYR:CZ	52:A5:52:TYR:HB2	2.39	0.56
57:AA:16:G:O2'	57:AA:17:G:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1532:C:C2'	57:AA:1533:G:H5'	2.35	0.56
57:AA:1947:C:H2'	57:AA:1948:G:H5"	1.87	0.56
57:AA:2025:C:H2'	57:AA:2026:C:H6	1.71	0.56
57:AA:2052:G:H2'	57:AA:2053:G:H8	1.71	0.56
57:AA:2199:A:H3'	57:AA:2200:C:C6	2.40	0.56
57:AA:2223:G:H2'	57:AA:2224:G:H5'	1.86	0.56
57:AA:2661:G:H2'	57:AA:2662:A:C8	2.40	0.56
1:Bb:187:LEU:HD13	1:Bb:187:LEU:O	2.05	0.56
2:Bc:47:LEU:HD11	2:Bc:68:VAL:HG11	1.87	0.56
2:Bc:64:VAL:HG12	2:Bc:66:VAL:H	1.69	0.56
3:Bd:150:GLU:HA	3:Bd:153:ARG:CD	2.34	0.56
3:Bd:173:TRP:O	3:Bd:186:LEU:HB2	2.06	0.56
7:Bh:84:ARG:NH1	7:Bh:86:ILE:HD13	2.19	0.56
11:Bl:48:PRO:C	11:Bl:49:ASN:HD22	2.13	0.56
12:Bm:23:TYR:HB3	12:Bm:67:GLU:HG2	1.81	0.56
12:Bm:107:ALA:O	12:Bm:109:THR:N	2.38	0.56
15:Bp:50:LYS:HD3	15:Bp:51:VAL:N	2.19	0.56
17:Br:81:PHE:CE2	22:Ba:674:G:H1'	2.40	0.56
21:By:16:ARG:HH11	21:By:16:ARG:HG2	1.70	0.56
21:By:38:ARG:HB3	21:By:38:ARG:NH1	2.20	0.56
22:Ba:266:G:C8	22:Ba:266:G:H5'	2.41	0.56
22:Ba:665:A:H2'	22:Ba:725:G:N2	2.20	0.56
22:Ba:831:U:H2'	22:Ba:832:C:C6	2.40	0.56
22:Ba:879:C:O2'	22:Ba:880:C:H5'	2.05	0.56
22:Ba:1096:C:H2'	22:Ba:1097:C:C6	2.41	0.56
22:Ba:1203:C:H2'	22:Ba:1204:A:C8	2.38	0.56
22:Ba:1239:A:H62	22:Ba:1299:A:N6	2.00	0.56
25:Bw:59:A:C2'	25:Bw:60:U:H5'	2.34	0.56
26:BC:11:LEU:HB3	26:BC:33:LEU:HD22	1.87	0.56
28:BE:108:SER:HB3	28:BE:165:VAL:HG21	1.87	0.56
29:BF:157:VAL:HA	29:BF:176:LEU:O	2.05	0.56
30:BG:16:ARG:O	30:BG:20:ILE:HG12	2.05	0.56
30:BG:129:GLY:O	30:BG:130:ASN:HB2	2.05	0.56
32:BI:126:TYR:H	32:BI:140:LEU:HD22	1.69	0.56
34:BN:23:LEU:HB2	34:BN:60:ILE:HG21	1.88	0.56
34:BN:39:ARG:CD	34:BN:41:ASP:HB2	2.35	0.56
36:BP:13:ASN:C	36:BP:13:ASN:HD22	2.12	0.56
36:BP:85:LEU:HD23	36:BP:85:LEU:N	2.18	0.56
37:BQ:108:GLY:HA3	46:BZ:116:VAL:HG11	1.86	0.56
38:BR:3:HIS:O	38:BR:4:LEU:HB3	2.06	0.56
38:BR:78:LYS:O	38:BR:83:ILE:HG12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:113:LEU:O	38:BR:113:LEU:HD23	2.04	0.56
39:BS:66:ALA:HA	39:BS:69:VAL:HG12	1.86	0.56
43:BW:59:VAL:CG1	43:BW:60:ASN:N	2.68	0.56
45:BY:17:SER:OG	45:BY:71:LYS:HD2	2.04	0.56
46:BZ:155:LEU:HD23	46:BZ:155:LEU:N	2.19	0.56
47:B0:70:GLN:NE2	47:B0:80:HIS:NE2	2.53	0.56
49:B2:27:GLU:O	49:B2:30:ARG:HG2	2.06	0.56
51:B4:46:GLN:O	51:B4:47:GLN:HG2	2.06	0.56
57:BA:607:U:H3	57:BA:621:A:H2	1.51	0.56
57:BA:626:U:H5'	57:BA:627:A:C5'	2.34	0.56
57:BA:654(D):G:O6	57:BA:654(R):C:H1'	2.05	0.56
57:BA:848:G:H2'	57:BA:849:A:C8	2.39	0.56
57:BA:914:C:C2'	57:BA:915:C:H5'	2.33	0.56
57:BA:970:C:H2'	57:BA:971:C:H6	1.70	0.56
57:BA:1049:C:H2'	57:BA:1050:A:H8	1.70	0.56
57:BA:1264:G:H3'	57:BA:1265:A:H5"	1.86	0.56
57:BA:1430:C:H2'	57:BA:1431:U:C6	2.40	0.56
57:BA:1485:G:H1'	57:BA:1505:C:N4	2.20	0.56
57:BA:1678:G:N2	57:BA:1989:G:N2	2.53	0.56
57:BA:1722:A:O2'	57:BA:1739:U:H5'	2.06	0.56
57:BA:1887:C:H3'	57:BA:1888:G:H5"	1.87	0.56
57:BA:2307:G:H5"	57:BA:2307:G:N3	2.20	0.56
58:BB:16:G:O2'	58:BB:17:C:H5'	2.06	0.56
1:Ab:67:THR:CG2	1:Ab:155:LEU:HD21	2.29	0.56
1:Ab:164:VAL:O	1:Ab:186:ALA:HB1	2.05	0.56
5:Af:68:PRO:HG3	5:Af:71:ARG:NH2	2.21	0.56
8:Ai:16:ARG:NH1	22:Aa:1147:C:O2	2.38	0.56
8:Ai:43:ALA:C	8:Ai:45:ALA:H	2.13	0.56
8:Ai:113:LYS:HE2	22:Aa:1187:G:OP1	2.05	0.56
21:Ay:62:LEU:HD12	21:Ay:63:VAL:H	1.70	0.56
22:Aa:22:G:H4'	22:Aa:885:G:C8	2.41	0.56
22:Aa:223:U:H2'	22:Aa:224:C:C6	2.40	0.56
22:Aa:763:G:H2'	22:Aa:764:C:H6	1.71	0.56
22:Aa:1082:G:O2'	22:Aa:1083:U:H5'	2.05	0.56
22:Aa:1096:C:H2'	22:Aa:1097:C:C6	2.40	0.56
22:Aa:1490:C:H2'	22:Aa:1491:G:H5"	1.86	0.56
27:AD:11:PRO:C	27:AD:13:ARG:H	2.14	0.56
27:AD:186:HIS:CD2	27:AD:188:GLU:H	2.24	0.56
27:AD:239:ARG:O	57:AA:1971:A:H2	1.88	0.56
29:AF:65:TRP:HZ3	29:AF:73:ALA:O	1.87	0.56
29:AF:67:GLN:O	29:AF:67:GLN:HG3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:118:LYS:NZ	32:AI:119:PRO:O	2.39	0.56
36:AP:101:VAL:CG2	36:AP:102:ARG:N	2.68	0.56
37:AQ:43:THR:HG1	37:AQ:46:GLN:HG3	1.70	0.56
38:AR:101:ALA:O	38:AR:102:GLU:HB2	2.04	0.56
39:AS:25:ARG:CG	39:AS:88:ASP:HB2	2.35	0.56
41:AU:95:LEU:HD13	42:AV:4:ILE:HG23	1.85	0.56
44:AX:27:THR:HB	44:AX:80:ILE:HB	1.86	0.56
44:AX:31:HIS:HE1	57:AA:71:A:H2	1.54	0.56
45:AY:4:LYS:HG3	45:AY:5:MET:N	2.19	0.56
45:AY:28:LYS:O	45:AY:29:GLU:C	2.48	0.56
46:AZ:19:ARG:HH12	46:AZ:84:GLU:HA	1.70	0.56
46:AZ:34:ASN:C	46:AZ:34:ASN:HD22	2.11	0.56
50:A3:40:THR:HG23	50:A3:43:ILE:HB	1.87	0.56
51:A4:12:ALA:HA	51:A4:29:PRO:HG3	1.87	0.56
52:A5:3:LYS:HZ1	57:AA:2614:A:H5'	1.70	0.56
57:AA:65:C:O2'	57:AA:66:C:H5'	2.05	0.56
57:AA:621:A:C2'	57:AA:622:G:H5'	2.35	0.56
57:AA:740:U:H2'	57:AA:741:G:C8	2.40	0.56
57:AA:1038:C:H2'	57:AA:1039:G:H5"	1.87	0.56
57:AA:1885:A:H2'	57:AA:1886:C:O4'	2.05	0.56
1:Bb:44:LEU:HD12	1:Bb:44:LEU:N	2.19	0.56
1:Bb:121:LEU:HB3	1:Bb:127:ILE:HD11	1.86	0.56
2:Bc:134:ILE:CD1	2:Bc:153:VAL:HG23	2.33	0.56
4:Be:18:ARG:HD3	22:Ba:1081:G:H5"	1.88	0.56
7:Bh:56:LYS:HB2	7:Bh:58:TYR:HE1	1.69	0.56
21:By:14:GLU:O	21:By:18:LEU:HB2	2.06	0.56
21:By:84:SER:HB3	21:By:87:TYR:CD2	2.40	0.56
22:Ba:47:C:H5"	22:Ba:365:U:C6	2.41	0.56
22:Ba:848:C:O2'	22:Ba:849:C:H5'	2.06	0.56
22:Ba:1305:G:C2	22:Ba:1331:G:N3	2.74	0.56
22:Ba:1484:C:O2'	22:Ba:1485:U:H5'	2.05	0.56
26:BC:194:ILE:O	26:BC:198:GLU:HG3	2.05	0.56
27:BD:165:ILE:HD13	27:BD:175:LEU:CD2	2.35	0.56
28:BE:87:GLU:OE1	28:BE:88:GLY:N	2.39	0.56
28:BE:199:ARG:HB2	28:BE:199:ARG:NH1	2.20	0.56
31:BH:20:ALA:HB1	31:BH:21:PRO:HD3	1.87	0.56
31:BH:62:LYS:HB3	57:BA:2749:A:H4'	1.87	0.56
34:BN:43:THR:HB	34:BN:46:VAL:HG12	1.86	0.56
35:BO:22:ILE:HD12	57:BA:1952:A:C6	2.40	0.56
36:BP:32:THR:O	36:BP:33:ARG:HB3	2.04	0.56
45:BY:28:LYS:O	45:BY:29:GLU:C	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:48:GLY:H	47:B0:51:VAL:HB	1.71	0.56
49:B2:36:ARG:HH11	49:B2:36:ARG:HG3	1.71	0.56
53:B6:12:GLU:HG2	53:B6:23:THR:HG22	1.88	0.56
57:BA:709:U:H2'	57:BA:710:G:C8	2.39	0.56
57:BA:1464:C:O2'	57:BA:1528:A:H8	1.86	0.56
57:BA:1582:C:H2'	57:BA:1583:A:H8	1.69	0.56
57:BA:2732:G:H3'	57:BA:2733:A:C5'	2.36	0.56
58:BB:81:G:H2'	58:BB:82:G:H5'	1.87	0.56
1:Ab:12:GLU:C	1:Ab:14:GLY:N	2.61	0.56
3:Ad:101:LEU:HB2	3:Ad:138:TYR:HB3	1.87	0.56
4:Ae:28:PHE:N	4:Ae:28:PHE:CD1	2.74	0.56
7:Ah:89:PRO:HG2	22:Aa:878:G:H5"	1.87	0.56
10:Ak:22:HIS:HB3	10:Ak:29:ILE:CG2	2.34	0.56
15:Ap:50:LYS:HD3	15:Ap:51:VAL:N	2.21	0.56
22:Aa:59:A:C5'	22:Aa:60:A:H5"	2.35	0.56
22:Aa:389:A:H2'	22:Aa:390:C:C5'	2.36	0.56
22:Aa:1412:C:H2'	22:Aa:1413:A:C8	2.40	0.56
26:AC:21:TYR:HB2	26:AC:225:ILE:HG23	1.88	0.56
26:AC:219:MET:HE1	57:AA:2174:C:H1'	1.86	0.56
27:AD:34:VAL:HG23	27:AD:35:LYS:N	2.10	0.56
30:AG:63:ILE:HG21	30:AG:141:PHE:HB3	1.87	0.56
32:AI:62:LYS:HE3	32:AI:133:HIS:O	2.05	0.56
37:AQ:39:PRO:HD3	37:AQ:99:PRO:CG	2.33	0.56
37:AQ:58:PHE:HD1	37:AQ:58:PHE:O	1.88	0.56
37:AQ:109:VAL:HG12	37:AQ:113:GLN:CB	2.35	0.56
38:AR:2:ARG:N	38:AR:2:ARG:HD2	2.20	0.56
40:AT:28:VAL:O	40:AT:29:ARG:CB	2.53	0.56
41:AU:102:GLU:HG3	42:AV:2:PHE:CE1	2.39	0.56
46:AZ:79:ARG:HH22	58:AB:92:C:H5"	1.71	0.56
46:AZ:99:TYR:HA	46:AZ:124:ILE:O	2.05	0.56
52:A5:55:ARG:O	52:A5:56:LYS:HB2	2.05	0.56
57:AA:992:C:O2'	57:AA:993:G:H5'	2.06	0.56
57:AA:1015:G:H5'	57:AA:1015:G:C8	2.36	0.56
57:AA:1022:G:N2	57:AA:1142(A):A:C2	2.64	0.56
57:AA:1542:A:C8	57:AA:1542:A:C3'	2.88	0.56
57:AA:2189:U:H2'	57:AA:2190:G:H5"	1.87	0.56
57:AA:2555:U:H2'	57:AA:2556:C:H5'	1.85	0.56
58:AB:70:C:H2'	58:AB:71:C:H6	1.70	0.56
7:Bh:6:ILE:HD12	7:Bh:6:ILE:N	2.17	0.56
7:Bh:31:PHE:CD1	22:Ba:643:C:H5'	2.41	0.56
9:Bj:3:LYS:O	9:Bj:100:THR:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:4:ILE:HB	9:Bj:74:ILE:CD1	2.25	0.56
14:Bo:82:ILE:CG2	14:Bo:83:GLU:N	2.67	0.56
17:Br:53:ARG:C	17:Br:55:ARG:H	2.13	0.56
22:Ba:1262:C:H2'	22:Ba:1263:C:C6	2.39	0.56
22:Ba:1418:A:H2	57:BA:1948:G:N3	2.03	0.56
25:Bw:32:C:O2'	25:Bw:33:U:H5'	2.05	0.56
27:BD:117:VAL:HG21	27:BD:128:GLY:C	2.31	0.56
27:BD:165:ILE:HD13	27:BD:175:LEU:HD21	1.87	0.56
27:BD:211:ARG:O	27:BD:215:LEU:HG	2.05	0.56
29:BF:157:VAL:HG22	29:BF:194:MET:HA	1.87	0.56
29:BF:176:LEU:HD12	29:BF:177:ALA:H	1.69	0.56
30:BG:20:ILE:HG22	30:BG:25:TYR:HB2	1.87	0.56
31:BH:116:GLU:CD	31:BH:116:GLU:C	2.74	0.56
35:BO:4:PRO:O	35:BO:5:GLN:CB	2.54	0.56
36:BP:23:PRO:HG2	36:BP:33:ARG:NE	2.21	0.56
39:BS:89:ARG:CG	39:BS:92:TYR:HA	2.35	0.56
40:BT:129:ARG:NH2	40:BT:131:ALA:HB2	2.21	0.56
41:BU:53:ARG:NH1	57:BA:535:C:O3'	2.37	0.56
41:BU:91:ASP:CG	41:BU:96:ALA:HB2	2.31	0.56
41:BU:92:ARG:HH21	42:BV:10:LYS:HG2	1.71	0.56
45:BY:42:VAL:CG1	45:BY:65:ALA:HB3	2.30	0.56
46:BZ:151:HIS:N	46:BZ:151:HIS:CD2	2.74	0.56
48:B1:45:ASN:HD22	48:B1:45:ASN:C	2.12	0.56
52:B5:51:TYR:CE2	52:B5:52:TYR:HB2	2.41	0.56
57:BA:158:U:H3'	57:BA:158:U:O2	2.06	0.56
57:BA:1205:U:H4'	57:BA:1206:G:OP2	2.06	0.56
57:BA:1542:A:C8	57:BA:1542:A:C3'	2.89	0.56
57:BA:2492:U:O2'	57:BA:2493:U:H5'	2.06	0.56
57:BA:2681:C:C5	57:BA:2725:A:N6	2.65	0.56
2:Ac:79:ARG:HH11	2:Ac:79:ARG:HG3	1.69	0.56
3:Ad:110:PHE:HD1	3:Ad:110:PHE:N	2.04	0.56
3:Ad:158:ILE:HG22	3:Ad:159:ARG:N	2.20	0.56
3:Ad:209:ARG:HH11	3:Ad:209:ARG:HG3	1.69	0.56
4:Ae:50:GLU:CB	4:Ae:53:LEU:HD12	2.32	0.56
8:Ai:116:LYS:NZ	8:Ai:122:ALA:HB2	2.21	0.56
13:An:44:LEU:HD12	13:An:44:LEU:C	2.30	0.56
15:Ap:67:THR:HG21	22:Aa:376:G:OP2	2.04	0.56
22:Aa:630:G:H3'	22:Aa:631:G:C5'	2.36	0.56
22:Aa:1490:C:H2'	22:Aa:1491:G:C4'	2.36	0.56
26:AC:7:ARG:HD3	57:AA:2128:C:H5'	1.88	0.56
28:AE:5:LEU:HB2	28:AE:51:PHE:CD2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:199:ARG:NH1	28:AE:199:ARG:HB2	2.21	0.56
30:AG:45:GLU:H	30:AG:88:ILE:CG2	2.16	0.56
32:AI:69:LYS:HG2	32:AI:73:GLU:OE2	2.05	0.56
35:AO:64:ARG:HG2	35:AO:79:PHE:CD1	2.40	0.56
36:AP:100:LEU:HD22	36:AP:100:LEU:H	1.71	0.56
38:AR:118:GLU:HA	38:AR:118:GLU:OE1	2.06	0.56
40:AT:63:VAL:O	40:AT:73:GLU:HA	2.05	0.56
40:AT:106:SER:C	40:AT:107:ASP:CG	2.73	0.56
51:A4:39:CYS:O	51:A4:40:HIS:CD2	2.58	0.56
53:A6:12:GLU:HG2	53:A6:23:THR:HG22	1.88	0.56
55:A8:30:ARG:NH1	57:AA:2419:U:O4	2.38	0.56
57:AA:613:G:H8	57:AA:613:G:C5'	2.17	0.56
57:AA:712:G:O2'	57:AA:713:G:H5'	2.05	0.56
57:AA:1796:U:H2'	57:AA:1797:C:C6	2.41	0.56
57:AA:1882:C:H5'	57:AA:1883:G:OP2	2.06	0.56
57:AA:2455:G:H2'	57:AA:2456:C:C6	2.41	0.56
57:AA:2648:C:H2'	57:AA:2649:U:C6	2.40	0.56
1:Bb:80:ILE:CD1	1:Bb:208:ILE:HG23	2.25	0.56
7:Bh:90:GLY:O	11:Bl:7:ILE:HG21	2.05	0.56
11:Bl:115:LYS:O	11:Bl:117:ARG:HG3	2.06	0.56
15:Bp:28:ARG:NH2	22:Ba:390:C:O3'	2.39	0.56
17:Br:36:ASN:HB2	17:Br:40:LEU:HD11	1.86	0.56
22:Ba:1023:G:H2'	22:Ba:1023:G:N3	2.21	0.56
26:BC:6:LYS:HB2	57:BA:2132:U:C4	2.40	0.56
27:BD:39:LYS:HB2	27:BD:62:TYR:HB2	1.87	0.56
27:BD:100:GLY:HA2	57:BA:1501:C:H1'	1.87	0.56
27:BD:109:ASP:HB2	27:BD:197:GLY:HA2	1.88	0.56
27:BD:210:GLY:O	27:BD:211:ARG:CB	2.51	0.56
31:BH:24:VAL:HG13	31:BH:35:VAL:HB	1.87	0.56
32:BI:68:LEU:CG	32:BI:72:LEU:HD11	2.35	0.56
36:BP:21:ARG:O	36:BP:23:PRO:HD3	2.05	0.56
36:BP:59:LEU:CA	36:BP:61:ARG:NH1	2.56	0.56
42:BV:39:LEU:HD12	42:BV:51:VAL:HA	1.87	0.56
45:BY:44:ILE:C	45:BY:62:GLU:HG3	2.31	0.56
46:BZ:23:LYS:NZ	46:BZ:40:ASP:HA	2.21	0.56
46:BZ:103:ARG:NH1	46:BZ:136:PHE:HB3	2.20	0.56
57:BA:2183:C:O2'	57:BA:2184:G:H5'	2.05	0.56
57:BA:2415:G:H2'	57:BA:2416:C:C6	2.40	0.56
1:Ab:30:ARG:HH21	1:Ab:194:PRO:CG	2.19	0.56
4:Ae:100:VAL:HG12	4:Ae:118:ILE:HG22	1.87	0.56
11:Al:119:LYS:C	11:Al:120:TYR:HD1	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:An:37:PHE:CE1	13:An:53:LEU:HD22	2.40	0.56
14:Ao:9:GLN:O	14:Ao:10:LYS:C	2.47	0.56
19:At:56:MET:HG3	19:At:84:LEU:CD1	2.34	0.56
22:Aa:1130:A:C2	22:Aa:1146:A:C4	2.93	0.56
22:Aa:1288:A:H2'	22:Aa:1289:A:C8	2.41	0.56
27:AD:130:ALA:C	27:AD:131:LEU:HD12	2.31	0.56
27:AD:264:LYS:HG2	27:AD:266:SER:H	1.70	0.56
28:AE:51:PHE:C	28:AE:74:PRO:HB3	2.31	0.56
29:AF:150:GLY:HA2	29:AF:172:TRP:CD2	2.40	0.56
30:AG:45:GLU:H	30:AG:88:ILE:CG1	2.18	0.56
35:AO:111:PHE:HB3	35:AO:114:ILE:HD13	1.88	0.56
39:AS:89:ARG:CG	39:AS:92:TYR:HA	2.36	0.56
41:AU:90:VAL:CG1	41:AU:91:ASP:H	2.13	0.56
42:AV:38:LEU:O	42:AV:39:LEU:HD13	2.05	0.56
43:AW:73:ALA:HB3	43:AW:106:ILE:HD11	1.88	0.56
45:AY:31:LEU:HB2	45:AY:32:PRO:CA	2.36	0.56
46:AZ:74:VAL:HG12	46:AZ:86:VAL:HG12	1.87	0.56
52:A5:46:CYS:SG	52:A5:47:PRO:CD	2.94	0.56
57:AA:523:C:O2'	57:AA:524:U:H5'	2.06	0.56
57:AA:1523:U:H2'	57:AA:1524:G:H8	1.71	0.56
1:Bb:52:GLU:CG	1:Bb:56:ARG:HH12	2.18	0.56
2:Bc:33:LEU:HD21	13:Bn:53:LEU:CD2	2.36	0.56
4:Be:28:PHE:CD1	4:Be:28:PHE:N	2.73	0.56
6:Bg:109:ASN:HA	6:Bg:119:ARG:HE	1.71	0.56
8:Bi:16:ARG:NH1	22:Ba:1147:C:O2	2.39	0.56
8:Bi:33:PHE:CZ	8:Bi:47:LEU:HD11	2.40	0.56
10:Bk:125:PHE:N	10:Bk:125:PHE:HD1	2.01	0.56
14:Bo:9:GLN:HB3	14:Bo:13:GLN:NE2	2.20	0.56
22:Ba:59:A:H5'	22:Ba:60:A:H5"	1.87	0.56
28:BE:116:VAL:HG21	28:BE:122:PHE:CD2	2.41	0.56
36:BP:146:VAL:O	36:BP:148:LEU:HG	2.06	0.56
39:BS:42:ASP:O	39:BS:43:GLU:HB2	2.04	0.56
39:BS:58:LEU:HD12	39:BS:59:LYS:H	1.71	0.56
41:BU:92:ARG:HE	57:BA:996:A:H4'	1.68	0.56
43:BW:75:TYR:CE2	43:BW:104:THR:HB	2.41	0.56
45:BY:76:CYS:HG	45:BY:77:PRO:HD2	1.68	0.56
51:B4:12:ALA:HA	51:B4:29:PRO:HG3	1.87	0.56
57:BA:2189:U:H2'	57:BA:2190:G:H5"	1.88	0.56
57:BA:2394:C:H2'	57:BA:2395:C:H6	1.70	0.56
57:BA:2845:G:O2'	57:BA:2846:G:H5'	2.06	0.56
58:BB:95:C:O2'	58:BB:96:U:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:48:MET:HE2	1:Ab:49:GLU:CA	2.36	0.56
3:Ad:38:TYR:O	3:Ad:38:TYR:HD1	1.89	0.56
5:Af:15:ASP:OD1	5:Af:17:SER:HB2	2.05	0.56
8:Ai:56:LEU:O	8:Ai:56:LEU:HD23	2.06	0.56
10:Ak:65:ALA:HB1	10:Ak:98:LEU:CD2	2.36	0.56
11:Al:69:TYR:HB3	11:Al:99:HIS:CD2	2.39	0.56
21:Ay:50:CYS:O	21:Ay:51:TYR:O	2.23	0.56
22:Aa:189(A):C:H2'	22:Aa:189(B):C:C6	2.41	0.56
22:Aa:709:G:O2'	22:Aa:710:G:H5'	2.06	0.56
22:Aa:710:G:H2'	22:Aa:711:G:H8	1.70	0.56
22:Aa:768:A:H5'	22:Aa:1524:C:H1'	1.87	0.56
28:AE:59:VAL:HG23	28:AE:62:PRO:HG2	1.88	0.56
28:AE:118:LYS:H	28:AE:121:ASN:H	1.54	0.56
31:AH:70:THR:O	31:AH:72:ILE:N	2.39	0.56
32:AI:77:LEU:CD2	32:AI:141:LYS:HG2	2.36	0.56
34:AN:39:ARG:HH11	34:AN:39:ARG:HG2	1.71	0.56
42:AV:39:LEU:O	42:AV:40:LEU:HB2	2.05	0.56
57:AA:588:U:H2'	57:AA:589:C:C6	2.40	0.56
57:AA:1021:A:N6	57:AA:1141:U:H3	1.95	0.56
57:AA:1485:G:H5'	57:AA:1485:G:H8	1.71	0.56
57:AA:1528:A:N3	57:AA:1528:A:H2'	2.21	0.56
57:AA:2307:G:H5"	57:AA:2307:G:N3	2.21	0.56
57:AA:2376:A:H2'	57:AA:2377:A:O4'	2.05	0.56
1:Bb:168:THR:HG23	1:Bb:192:SER:OG	2.06	0.56
2:Bc:43:LEU:HB3	2:Bc:47:LEU:HD23	1.87	0.56
2:Bc:53:ALA:O	2:Bc:54:ARG:HB2	2.05	0.56
6:Bg:69:VAL:HG21	6:Bg:104:LEU:HD21	1.87	0.56
9:Bj:34:VAL:HG12	9:Bj:35:SER:N	2.20	0.56
22:Ba:413:G:H4'	22:Ba:414:A:H5"	1.86	0.56
22:Ba:630:G:H3'	22:Ba:631:G:C5'	2.36	0.56
22:Ba:1051:C:H2'	22:Ba:1052:U:C6	2.40	0.56
22:Ba:1502:A:H5"	22:Ba:1504:G:N7	2.20	0.56
29:BF:40:GLN:HE21	29:BF:184:TYR:HB2	1.68	0.56
30:BG:5:VAL:O	30:BG:6:ALA:C	2.49	0.56
35:BO:97:ARG:HA	35:BO:117:LEU:CD2	2.34	0.56
36:BP:64:LYS:O	36:BP:66:GLY:N	2.37	0.56
36:BP:102:ARG:CB	36:BP:102:ARG:HH21	2.19	0.56
36:BP:111:ARG:HG3	36:BP:111:ARG:HH21	1.69	0.56
41:BU:44:ASN:HD21	42:BV:75:PHE:HB3	1.68	0.56
45:BY:36:ALA:HB1	45:BY:67:LEU:O	2.06	0.56
46:BZ:138:GLU:OE2	46:BZ:138:GLU:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:8:LYS:HA	53:B6:27:LYS:HA	1.88	0.56
57:BA:1038:C:H3'	57:BA:1039:G:C5'	2.35	0.56
57:BA:1589:C:H2'	57:BA:1590:U:C6	2.41	0.56
1:Ab:97:TRP:CH2	1:Ab:176:GLU:HG3	2.41	0.56
1:Ab:187:LEU:O	1:Ab:187:LEU:HD13	2.05	0.56
2:Ac:127:ARG:HH11	2:Ac:127:ARG:HG2	1.71	0.56
3:Ad:61:LYS:HD2	3:Ad:207:TYR:OH	2.06	0.56
3:Ad:110:PHE:N	3:Ad:110:PHE:CD1	2.74	0.56
6:Ag:41:ARG:HH11	6:Ag:41:ARG:HG3	1.71	0.56
9:Aj:23:ILE:HG22	9:Aj:23:ILE:O	2.04	0.56
18:As:64:GLU:HG3	18:As:65:ASN:H	1.70	0.56
22:Aa:52:G:O2'	22:Aa:53:A:H5'	2.05	0.56
22:Aa:520:A:N1	22:Aa:536:C:H1'	2.20	0.56
22:Aa:601:C:H2'	22:Aa:602:A:H8	1.71	0.56
22:Aa:817:C:H1'	22:Aa:819:A:H5'	1.86	0.56
22:Aa:836:G:C6	22:Aa:851:G:C6	2.93	0.56
27:AD:95:LEU:O	27:AD:95:LEU:HD12	2.06	0.56
28:AE:44:TYR:O	28:AE:45:THR:HB	2.04	0.56
29:AF:9:ILE:HG23	29:AF:12:LEU:C	2.31	0.56
32:AI:54:GLN:HA	32:AI:57:ARG:HB3	1.88	0.56
36:AP:15:ARG:HH11	57:AA:597:U:H4'	1.71	0.56
38:AR:63:ARG:O	38:AR:67:LEU:HB2	2.06	0.56
40:AT:91:ARG:O	40:AT:117:ASP:HB2	2.06	0.56
44:AX:60:ARG:HE	54:A7:47:ARG:NH1	2.03	0.56
45:AY:42:VAL:CG1	45:AY:65:ALA:HB3	2.29	0.56
57:AA:1169:G:H1	57:AA:1180:C:H42	1.52	0.56
57:AA:1354:A:H2'	57:AA:1355:G:O4'	2.06	0.56
57:AA:1494:A:H3'	57:AA:1494:A:N3	2.21	0.56
57:AA:1972:A:H2'	57:AA:1973:G:C8	2.41	0.56
57:AA:2062:A:C4	57:AA:2062:A:H5"	2.41	0.56
57:AA:2074:U:H2'	57:AA:2075:U:C6	2.41	0.56
57:AA:2464:C:O2'	57:AA:2465:C:H6	1.89	0.56
57:AA:2657:A:H2'	57:AA:2658:C:H5'	1.87	0.56
58:AB:11:C:OP2	58:AB:12:C:C5	2.58	0.56
58:AB:88:C:H2'	58:AB:88:C:O2	2.06	0.56
2:Bc:47:LEU:HD21	2:Bc:68:VAL:CG1	2.33	0.56
2:Bc:52:LEU:HD23	2:Bc:52:LEU:H	1.71	0.56
3:Bd:59:ARG:C	3:Bd:61:LYS:H	2.12	0.56
3:Bd:97:LEU:HD23	3:Bd:97:LEU:O	2.06	0.56
3:Bd:173:TRP:C	3:Bd:186:LEU:HD12	2.30	0.56
7:Bh:40:ALA:C	7:Bh:42:GLU:N	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:57:LYS:HG2	22:Ba:972:C:H4'	1.86	0.56
12:Bm:69:GLU:CA	12:Bm:70:LEU:O	2.46	0.56
15:Bp:20:VAL:HG21	15:Bp:32:TYR:CD2	2.41	0.56
22:Ba:389:A:H2'	22:Ba:390:C:C5'	2.36	0.56
22:Ba:677:U:H3	22:Ba:713:G:H22	1.51	0.56
26:BC:21:TYR:HB2	26:BC:225:ILE:HG23	1.87	0.56
26:BC:219:MET:O	57:BA:2175:C:H4'	2.05	0.56
27:BD:17:THR:HG23	27:BD:205:VAL:HB	1.88	0.56
27:BD:24:ILE:HD13	27:BD:25:THR:N	2.14	0.56
29:BF:28:ILE:H	29:BF:28:ILE:CD1	2.19	0.56
31:BH:19:VAL:HG21	31:BH:43:VAL:O	2.06	0.56
32:BI:68:LEU:HD23	32:BI:68:LEU:C	2.31	0.56
37:BQ:16:ARG:HG2	37:BQ:17:LEU:H	1.71	0.56
40:BT:2:ASN:O	40:BT:3:ARG:C	2.49	0.56
42:BV:21:ARG:NH1	42:BV:91:TYR:CE2	2.73	0.56
45:BY:43:ASN:HB3	45:BY:62:GLU:OE1	2.06	0.56
49:B2:10:LEU:HB3	49:B2:14:ARG:NH1	2.21	0.56
52:B5:40:LYS:HE2	52:B5:46:CYS:HB3	1.83	0.56
57:BA:635:C:O2'	57:BA:639:U:OP1	2.24	0.56
57:BA:1221:C:H2'	57:BA:1221(A):C:C6	2.41	0.56
57:BA:2464:C:O2'	57:BA:2465:C:H6	1.88	0.56
57:BA:2777:G:H5"	57:BA:2778:A:H5"	1.88	0.56
3:Ad:79:PHE:HE1	3:Ad:207:TYR:HB2	1.71	0.56
3:Ad:152:SER:HA	3:Ad:155:LEU:HG	1.87	0.56
5:Af:1:MET:HE3	5:Af:66:GLU:HG2	1.86	0.56
8:Ai:88:TYR:O	8:Ai:89:ASN:CB	2.53	0.56
9:Aj:34:VAL:HG12	9:Aj:35:SER:N	2.21	0.56
9:Aj:90:LEU:N	9:Aj:91:PRO:HD3	2.21	0.56
10:Ak:34:ASP:HB3	10:Ak:40:ILE:CD1	2.33	0.56
12:Am:23:TYR:CE1	12:Am:70:LEU:HD22	2.40	0.56
14:Ao:62:GLN:O	14:Ao:66:LEU:HD13	2.06	0.56
19:At:81:LYS:C	19:At:83:ARG:N	2.64	0.56
22:Aa:15:G:H8	22:Aa:1396:A:HO2'	1.54	0.56
22:Aa:532:A:OP2	22:Aa:532:A:O4'	2.23	0.56
22:Aa:539:A:H2'	22:Aa:540:G:H8	1.70	0.56
22:Aa:1262:C:H42	22:Aa:1273:G:H1	1.54	0.56
25:Aw:59:A:C2'	25:Aw:60:U:H5'	2.36	0.56
26:AC:6:LYS:HB2	57:AA:2132:U:C4	2.40	0.56
27:AD:68:LYS:HG3	27:AD:68:LYS:O	2.05	0.56
29:AF:28:ILE:CG2	29:AF:116:ASP:HB2	2.32	0.56
31:AH:41:MET:HG3	31:AH:42:ARG:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AJ:62:ALA:HA	33:AJ:65:GLU:CB	2.35	0.56
35:AO:104:ARG:CZ	35:AO:104:ARG:HB3	2.36	0.56
36:AP:33:ARG:HH12	57:AA:587:C:H3'	1.70	0.56
36:AP:101:VAL:CG1	36:AP:106:LEU:HD23	2.34	0.56
39:AS:58:LEU:HD12	39:AS:59:LYS:H	1.71	0.56
41:AU:16:LYS:O	41:AU:20:LEU:HD23	2.05	0.56
46:AZ:42:VAL:HG13	46:AZ:43:GLU:OE1	2.04	0.56
48:A1:58:ILE:O	48:A1:58:ILE:HG13	2.04	0.56
54:A7:35:ARG:HD3	57:AA:54:G:O2'	2.06	0.56
57:AA:654(S):G:H2'	57:AA:654(S):G:N3	2.21	0.56
57:AA:1264:G:H3'	57:AA:1265:A:H5"	1.86	0.56
57:AA:2029:G:H2'	57:AA:2031:A:OP1	2.05	0.56
57:AA:2206:G:H3'	57:AA:2206:G:N3	2.21	0.56
57:AA:2771:C:H2'	57:AA:2771:C:O2	2.06	0.56
1:Bb:14:GLY:C	1:Bb:15:VAL:HG22	2.30	0.56
9:Bj:90:LEU:N	9:Bj:91:PRO:HD3	2.20	0.56
12:Bm:79:LYS:NZ	12:Bm:79:LYS:HB3	2.21	0.56
22:Ba:763:G:H2'	22:Ba:764:C:H6	1.70	0.56
22:Ba:1054:C:O2	22:Ba:1054:C:C2'	2.53	0.56
22:Ba:1271:G:H5'	22:Ba:1314:C:H5"	1.88	0.56
27:BD:246:PRO:HD3	57:BA:1902:C:H5"	1.87	0.56
28:BE:65:GLY:HA2	28:BE:70:ALA:CB	2.36	0.56
28:BE:69:LYS:NZ	28:BE:90:THR:N	2.54	0.56
28:BE:110:GLY:O	38:BR:2:ARG:HG2	2.06	0.56
29:BF:4:VAL:HG11	29:BF:17:ARG:HD3	1.88	0.56
30:BG:173:LEU:O	30:BG:178:PHE:CD1	2.59	0.56
31:BH:41:MET:HE2	31:BH:43:VAL:HG13	1.87	0.56
39:BS:93:LYS:O	39:BS:93:LYS:HG3	2.05	0.56
47:B0:27:GLU:OE1	57:BA:856:C:O2'	2.22	0.56
57:BA:107:C:H2'	57:BA:108:U:H6	1.70	0.56
57:BA:922:U:H2'	57:BA:923:C:C6	2.40	0.56
1:Ab:95:GLN:HA	1:Ab:95:GLN:OE1	2.05	0.55
3:Ad:30:LYS:C	3:Ad:32:ALA:N	2.59	0.55
3:Ad:45:GLN:O	3:Ad:45:GLN:HG3	2.06	0.55
3:Ad:93:PHE:O	3:Ad:97:LEU:HB2	2.06	0.55
6:Ag:113:GLU:HB2	6:Ag:119:ARG:CG	2.21	0.55
7:Ah:103:VAL:CG2	7:Ah:110:ALA:HB2	2.35	0.55
7:Ah:109:ILE:HG22	7:Ah:137:VAL:O	2.06	0.55
22:Aa:60:A:H1'	22:Aa:61:G:O4'	2.06	0.55
22:Aa:83:U:H2'	22:Aa:84:U:H5	1.70	0.55
22:Aa:831:U:H2'	22:Aa:832:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1323:G:H4'	22:Aa:1363:C:N3	2.21	0.55
26:AC:38:PHE:CD2	57:AA:2126:A:H5'	2.40	0.55
30:AG:160:VAL:CG1	30:AG:161:THR:N	2.68	0.55
31:AH:144:VAL:O	31:AH:148:ILE:HG12	2.06	0.55
31:AH:158:HIS:NE2	31:AH:169:VAL:C	2.64	0.55
34:AN:120:LEU:HD23	34:AN:121:LYS:N	2.21	0.55
35:AO:120:GLU:HG2	35:AO:122:LEU:HD21	1.86	0.55
36:AP:23:PRO:HD2	36:AP:33:ARG:NH1	2.21	0.55
37:AQ:21:THR:HG22	37:AQ:21:THR:O	2.06	0.55
43:AW:75:TYR:CE2	43:AW:104:THR:HB	2.41	0.55
46:AZ:24:LEU:HD23	46:AZ:25:PRO:O	2.05	0.55
54:A7:34:ARG:NH1	54:A7:39:ARG:CG	2.69	0.55
57:AA:1935:G:H1'	57:AA:1964:G:N2	2.21	0.55
57:AA:2320:A:H2'	57:AA:2320:A:N3	2.21	0.55
3:Bd:91:SER:O	3:Bd:92:VAL:C	2.49	0.55
6:Bg:47:CYS:O	6:Bg:50:ILE:HB	2.06	0.55
9:Bj:50:ILE:CG2	9:Bj:60:ARG:HD3	2.36	0.55
10:Bk:61:ALA:HB3	10:Bk:90:GLY:HA3	1.87	0.55
21:By:77:SER:CB	21:By:90:ALA:HB2	2.36	0.55
22:Ba:421:U:H2'	22:Ba:421:U:O2	2.06	0.55
22:Ba:527:G:O2'	22:Ba:528:C:H5'	2.05	0.55
22:Ba:630:G:C2'	22:Ba:631:G:H5"	2.36	0.55
22:Ba:634:C:H2'	22:Ba:635:G:H8	1.69	0.55
22:Ba:983:A:O2'	22:Ba:1049:U:O2'	2.23	0.55
22:Ba:1411:C:H2'	22:Ba:1412:C:H6	1.70	0.55
24:Bv:66:C:H2'	24:Bv:67:C:C6	2.40	0.55
25:Bw:15:G:H2'	25:Bw:59:A:N1	2.21	0.55
26:BC:7:ARG:HD3	57:BA:2128:C:H5'	1.86	0.55
27:BD:218:ARG:HB3	27:BD:219:PRO:HD2	1.88	0.55
28:BE:132:HIS:CE1	57:BA:1658:C:OP1	2.59	0.55
29:BF:124:LEU:O	29:BF:193:VAL:HA	2.06	0.55
30:BG:122:PRO:O	30:BG:124:SER:N	2.39	0.55
32:BI:91:SER:OG	32:BI:92:VAL:N	2.38	0.55
34:BN:15:LEU:O	34:BN:136:GLU:HA	2.06	0.55
40:BT:3:ARG:CD	57:BA:2876:G:H4'	2.36	0.55
40:BT:54:ARG:HB2	57:BA:2846:G:OP2	2.06	0.55
40:BT:106:SER:HA	40:BT:110:ILE:HG12	1.87	0.55
41:BU:49:HIS:CD2	57:BA:534:U:O2'	2.59	0.55
44:BX:27:THR:HB	44:BX:80:ILE:HB	1.87	0.55
46:BZ:169:GLU:O	46:BZ:169:GLU:HG3	2.06	0.55
46:BZ:175:VAL:HB	46:BZ:176:PRO:CD	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:56:ASP:O	47:B0:57:PHE:HB2	2.05	0.55
57:BA:654(S):G:N3	57:BA:654(S):G:H2'	2.21	0.55
57:BA:847:U:H2'	57:BA:848:G:H5"	1.87	0.55
57:BA:848:G:H5'	57:BA:848:G:C8	2.38	0.55
57:BA:1319:G:O2'	57:BA:1320:C:H5'	2.05	0.55
57:BA:1667:G:H22	57:BA:1992:G:H5'	1.71	0.55
57:BA:2199:A:H3'	57:BA:2200:C:C6	2.40	0.55
2:Ac:60:ALA:O	2:Ac:61:ALA:HB2	2.07	0.55
2:Ac:189:ALA:HB3	2:Ac:196:LEU:HB2	1.88	0.55
3:Ad:5:ILE:HA	3:Ad:115:ARG:HH12	1.70	0.55
4:Ae:31:LEU:HD23	4:Ae:45:PHE:HB2	1.89	0.55
6:Ag:102:ARG:HH12	22:Aa:939:G:C5'	2.19	0.55
14:Ao:26:GLU:OE2	14:Ao:77:ARG:HB2	2.06	0.55
14:Ao:72:ARG:HH11	14:Ao:72:ARG:HG2	1.70	0.55
22:Aa:59:A:H5'	22:Aa:60:A:H5"	1.88	0.55
22:Aa:837:G:O2'	22:Aa:838:G:H5'	2.07	0.55
22:Aa:1327:C:H2'	22:Aa:1328:C:C6	2.41	0.55
28:AE:87:GLU:OE1	28:AE:88:GLY:N	2.39	0.55
28:AE:142:GLY:HA3	57:AA:2052:G:O4'	2.06	0.55
29:AF:89:VAL:HG12	29:AF:90:PHE:N	2.22	0.55
36:AP:102:ARG:NH2	36:AP:102:ARG:HB3	2.21	0.55
37:AQ:35:VAL:HG11	37:AQ:130:LYS:CE	2.36	0.55
41:AU:49:HIS:CD2	57:AA:534:U:O2'	2.59	0.55
45:AY:2:ARG:O	45:AY:4:LYS:N	2.34	0.55
46:AZ:150:LEU:HG	46:AZ:171:ILE:CD1	2.36	0.55
47:A0:12:ASN:N	47:A0:12:ASN:HD22	2.04	0.55
48:A1:51:VAL:O	48:A1:57:GLU:O	2.24	0.55
50:A3:8:LEU:HD12	50:A3:30:ARG:O	2.07	0.55
54:A7:12:ARG:NH2	54:A7:44:PRO:HB3	2.22	0.55
55:A8:50:LEU:C	55:A8:53:PRO:HD2	2.30	0.55
57:AA:847:U:H2'	57:AA:848:G:H5"	1.87	0.55
57:AA:935:C:H2'	57:AA:936:C:H6	1.70	0.55
57:AA:1049:C:N4	57:AA:1111:A:C2	2.74	0.55
57:AA:1205:U:H4'	57:AA:1206:G:OP2	2.06	0.55
57:AA:1722:A:O2'	57:AA:1739:U:H5'	2.06	0.55
57:AA:1887:C:H3'	57:AA:1888:G:H5"	1.86	0.55
57:AA:2697:G:H2'	57:AA:2698:U:O4'	2.06	0.55
58:AB:40:U:H3'	58:AB:41:U:H5"	1.87	0.55
1:Bb:114:ARG:HH11	1:Bb:118:LEU:HD21	1.71	0.55
2:Bc:8:ILE:C	2:Bc:10:PHE:H	2.13	0.55
5:Bf:97:PHE:N	17:Br:30:ASP:OD1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bh:103:VAL:CG2	7:Bh:110:ALA:HB2	2.36	0.55
15:Bp:39:TYR:CE2	15:Bp:41:PRO:HB3	2.41	0.55
21:By:47:MET:HB3	21:By:48:PRO:HD2	1.88	0.55
22:Ba:59:A:C5'	22:Ba:60:A:H5"	2.36	0.55
22:Ba:60:A:H1'	22:Ba:61:G:O4'	2.06	0.55
22:Ba:803:G:C6	22:Ba:804:U:N3	2.75	0.55
22:Ba:1349:A:H2'	22:Ba:1350:A:H8	1.69	0.55
27:BD:106:ILE:O	27:BD:106:ILE:CG2	2.54	0.55
27:BD:264:LYS:HG2	27:BD:266:SER:H	1.71	0.55
29:BF:89:VAL:HG12	29:BF:90:PHE:N	2.21	0.55
31:BH:137:ASP:O	31:BH:138:LYS:HB2	2.05	0.55
32:BI:88:ILE:CG1	32:BI:142:VAL:HG13	2.37	0.55
35:BO:98:VAL:HG22	35:BO:118:ALA:HA	1.87	0.55
38:BR:5:LYS:HB2	57:BA:2722:G:O2'	2.05	0.55
45:BY:96:ILE:CG2	45:BY:99:CYS:HB3	2.36	0.55
46:BZ:23:LYS:HB3	46:BZ:38:TYR:HD1	1.71	0.55
46:BZ:138:GLU:HB2	46:BZ:156:LYS:HB3	1.88	0.55
47:B0:19:LYS:HD3	47:B0:41:ARG:NH2	2.21	0.55
53:B6:15:GLU:OE1	53:B6:44:ARG:NH1	2.35	0.55
53:B6:38:LYS:HD3	57:BA:2344:U:OP1	2.06	0.55
57:BA:2052:G:H2'	57:BA:2053:G:H8	1.71	0.55
57:BA:2322:A:H2'	57:BA:2323:G:O4'	2.06	0.55
57:BA:2881:C:H2'	57:BA:2882:A:C8	2.41	0.55
58:BB:40:U:H3'	58:BB:41:U:H5"	1.87	0.55
1:Ab:204:ASN:HD22	1:Ab:205:ASP:N	2.05	0.55
6:Ag:25:ALA:HA	6:Ag:28:ASN:HD22	1.71	0.55
9:Aj:5:ARG:HA	9:Aj:73:ASP:OD1	2.05	0.55
9:Aj:35:SER:O	9:Aj:72:VAL:HG13	2.07	0.55
9:Aj:38:ILE:O	9:Aj:38:ILE:HG13	2.07	0.55
11:Al:45:PRO:HG3	11:Al:53:ARG:HD3	1.88	0.55
11:Al:115:LYS:O	11:Al:117:ARG:HG3	2.06	0.55
12:Am:90:LEU:HD13	18:As:81:ARG:HG3	1.87	0.55
19:At:49:ALA:HA	19:At:92:LEU:HD21	1.88	0.55
22:Aa:9:G:H2'	22:Aa:10:A:C8	2.41	0.55
22:Aa:413:G:H4'	22:Aa:414:A:H5"	1.87	0.55
22:Aa:506:G:H2'	22:Aa:507:C:C6	2.41	0.55
28:AE:185:LYS:O	28:AE:186:GLY:O	2.24	0.55
32:AI:74:ASN:N	32:AI:74:ASN:ND2	2.41	0.55
39:AS:49:VAL:HG12	39:AS:50:SER:N	2.21	0.55
42:AV:19:LYS:HZ3	42:AV:20:LEU:HB2	1.71	0.55
45:AY:95:LYS:NZ	45:AY:100:ALA:HB1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AZ:56:VAL:HG22	46:AZ:70:LEU:HG	1.88	0.55
47:A0:43:THR:HG23	47:A0:43:THR:O	2.05	0.55
48:A1:89:GLU:C	48:A1:92:LYS:HB3	2.31	0.55
53:A6:8:LYS:HA	53:A6:27:LYS:HA	1.88	0.55
53:A6:43:CYS:O	53:A6:44:ARG:HB2	2.06	0.55
57:AA:673:C:H5'	57:AA:673:C:C6	2.29	0.55
57:AA:947:G:H2'	57:AA:948:G:C8	2.41	0.55
57:AA:1001:A:H2'	57:AA:1002:G:O4'	2.07	0.55
57:AA:2469:A:C5	57:AA:2470:G:H1'	2.42	0.55
58:AB:95:C:O2'	58:AB:96:U:H5'	2.07	0.55
1:Bb:95:GLN:NE2	1:Bb:147:LYS:HE2	2.21	0.55
1:Bb:95:GLN:HE21	1:Bb:147:LYS:HE2	1.70	0.55
1:Bb:204:ASN:ND2	1:Bb:206:ASP:N	2.53	0.55
2:Bc:155:GLY:O	2:Bc:156:ARG:HB2	2.05	0.55
6:Bg:152:ALA:C	6:Bg:154:TYR:H	2.13	0.55
8:Bi:114:TYR:N	8:Bi:114:TYR:CD2	2.57	0.55
16:Bq:48:GLU:OE2	16:Bq:50:LYS:HD3	2.06	0.55
17:Br:50:ILE:HD12	17:Br:70:ILE:CD1	2.36	0.55
19:Bt:49:ALA:HA	19:Bt:92:LEU:HD21	1.87	0.55
19:Bt:97:ALA:O	19:Bt:99:LEU:HG	2.06	0.55
22:Ba:312:C:H2'	22:Ba:313:A:H8	1.71	0.55
22:Ba:1014:A:H2	22:Ba:1219:U:O2	1.89	0.55
22:Ba:1288:A:H2'	22:Ba:1289:A:C8	2.42	0.55
27:BD:35:LYS:HA	27:BD:64:ILE:HG22	1.88	0.55
27:BD:80:ALA:HB3	27:BD:94:LEU:HD13	1.87	0.55
32:BI:127:VAL:C	32:BI:128:LEU:HD22	2.31	0.55
35:BO:104:ARG:CZ	35:BO:104:ARG:HB3	2.37	0.55
36:BP:7:ARG:NH1	36:BP:7:ARG:CB	2.69	0.55
36:BP:50:ARG:HD3	55:B8:7:HIS:HD2	1.71	0.55
37:BQ:60:ARG:HA	46:BZ:178:GLU:O	2.06	0.55
37:BQ:60:ARG:HH11	37:BQ:60:ARG:HB2	1.70	0.55
47:B0:12:ASN:N	47:B0:12:ASN:HD22	2.03	0.55
48:B1:45:ASN:HD21	48:B1:47:GLN:HE21	1.55	0.55
49:B2:45:SER:H	49:B2:46:GLN:NE2	2.05	0.55
55:B8:30:ARG:O	57:BA:2420:C:N4	2.39	0.55
55:B8:34:TRP:HB2	57:BA:2420:C:OP1	2.06	0.55
55:B8:56:GLU:O	55:B8:58:ILE:N	2.39	0.55
56:B9:6:SER:HB2	57:BA:2466:C:H5"	1.88	0.55
56:B9:19:ARG:HA	57:BA:2757:A:OP1	2.06	0.55
57:BA:99:U:H4'	57:BA:102:G:H1'	1.87	0.55
57:BA:908:C:O2'	57:BA:909:A:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1204:A:N1	57:BA:1241:A:H2	2.04	0.55
57:BA:1503:U:O2'	57:BA:1504:C:H5'	2.07	0.55
57:BA:2025:C:H2'	57:BA:2026:C:C6	2.41	0.55
57:BA:2657:A:H2'	57:BA:2658:C:H5'	1.88	0.55
1:Ab:222:ILE:HG22	1:Ab:223:ILE:N	2.20	0.55
2:Ac:155:GLY:O	2:Ac:156:ARG:HB2	2.05	0.55
3:Ad:102:ASP:HA	3:Ad:121:VAL:HG21	1.88	0.55
3:Ad:173:TRP:C	3:Ad:186:LEU:HD12	2.31	0.55
7:Ah:6:ILE:HD12	7:Ah:6:ILE:N	2.18	0.55
11:Al:84:LEU:HD23	11:Al:84:LEU:C	2.31	0.55
14:Ao:53:HIS:O	14:Ao:56:LEU:HB3	2.06	0.55
15:Ap:20:VAL:HG22	15:Ap:21:VAL:N	2.22	0.55
21:Ay:56:ARG:H	22:Aa:530:G:HO2'	1.54	0.55
22:Aa:680:C:O2'	22:Aa:681:C:H5'	2.06	0.55
22:Aa:1452:C:H5'	22:Aa:1456:G:N3	2.21	0.55
31:AH:24:VAL:HG13	31:AH:35:VAL:HB	1.86	0.55
31:AH:41:MET:HG2	31:AH:43:VAL:HG13	1.87	0.55
32:AI:132:PRO:HG2	32:AI:133:HIS:ND1	2.22	0.55
39:AS:89:ARG:O	39:AS:90:GLY:O	2.24	0.55
41:AU:31:SER:C	41:AU:33:ARG:H	2.14	0.55
42:AV:25:LEU:H	42:AV:92:THR:HG21	1.71	0.55
43:AW:1:MET:CE	43:AW:2:GLU:H	2.19	0.55
46:AZ:139:VAL:C	46:AZ:141:VAL:H	2.14	0.55
48:A1:14:VAL:O	48:A1:15:ALA:HB2	2.06	0.55
50:A3:6:VAL:HG12	50:A3:56:VAL:HG22	1.88	0.55
57:AA:251:A:C5	57:AA:252:G:H1'	2.42	0.55
57:AA:648:G:O2'	57:AA:649:G:H5'	2.06	0.55
57:AA:1316:U:H2'	57:AA:1317:A:C8	2.41	0.55
57:AA:1713:U:O2'	57:AA:1714:G:H5'	2.06	0.55
57:AA:1750:G:O2'	57:AA:1751:C:H5'	2.06	0.55
57:AA:2322:A:H2'	57:AA:2323:G:O4'	2.06	0.55
57:AA:2777:G:H5"	57:AA:2778:A:H5"	1.89	0.55
57:AA:2866:U:H2'	57:AA:2866:U:O2	2.05	0.55
1:Bb:165:VAL:HG23	1:Bb:166:ASP:H	1.71	0.55
2:Bc:36:ASP:OD2	2:Bc:57:ILE:HD12	2.07	0.55
5:Bf:28:ARG:HG3	5:Bf:28:ARG:NH1	2.21	0.55
11:Bl:122:THR:O	22:Ba:36:C:H4'	2.06	0.55
12:Bm:70:LEU:HD22	12:Bm:71:ARG:N	2.14	0.55
13:Bn:7:ILE:O	13:Bn:11:LYS:HG3	2.06	0.55
13:Bn:15:LYS:HB3	13:Bn:16:PHE:HD2	1.71	0.55
16:Bq:68:ARG:NH1	22:Ba:277:C:H5'	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bs:29:ARG:N	18:Bs:29:ARG:HD2	2.21	0.55
21:By:42:ASN:O	21:By:52:LYS:HG2	2.07	0.55
22:Ba:45:U:H2'	22:Ba:46:G:H8	1.72	0.55
22:Ba:223:U:H2'	22:Ba:224:C:H6	1.71	0.55
22:Ba:651:C:O2'	22:Ba:652:U:H5'	2.07	0.55
28:BE:77:ILE:HG22	28:BE:78:LEU:CD1	2.37	0.55
29:BF:65:TRP:CZ3	29:BF:75:HIS:HD2	2.24	0.55
30:BG:86:MET:O	30:BG:86:MET:HE2	2.07	0.55
31:BH:80:SER:O	31:BH:81:GLU:HB2	2.07	0.55
32:BI:76:THR:OG1	32:BI:77:LEU:N	2.39	0.55
38:BR:63:ARG:O	38:BR:67:LEU:HB2	2.06	0.55
39:BS:25:ARG:CG	39:BS:88:ASP:HB2	2.37	0.55
48:B1:83:GLU:O	48:B1:84:GLY:C	2.49	0.55
53:B6:25:LYS:HE3	57:BA:2284:C:H41	1.71	0.55
57:BA:203:C:C3'	57:BA:204:A:H5"	2.33	0.55
57:BA:1038:C:C2'	57:BA:1039:G:H5"	2.36	0.55
57:BA:2463:C:O2'	57:BA:2464:C:H5'	2.07	0.55
1:Ab:171:ALA:HA	1:Ab:174:VAL:CG2	2.36	0.55
2:Ac:90:GLU:HA	2:Ac:93:LYS:HB2	1.88	0.55
9:Aj:38:ILE:CG1	9:Aj:71:LEU:HB3	2.37	0.55
11:Al:90:VAL:O	11:Al:92:ASP:N	2.39	0.55
14:Ao:4:THR:OG1	14:Ao:7:GLU:HG3	2.07	0.55
14:Ao:65:ARG:HH11	14:Ao:65:ARG:CG	2.19	0.55
18:As:36:ARG:HB2	18:As:72:GLY:HA3	1.89	0.55
22:Aa:626:U:H2'	22:Aa:627:G:H8	1.71	0.55
22:Aa:960:U:O2	22:Aa:960:U:C2'	2.54	0.55
22:Aa:1354:C:O2'	22:Aa:1355:G:H5'	2.07	0.55
30:AG:27:ASN:HD21	58:AB:55:U:C4'	2.19	0.55
31:AH:137:ASP:O	31:AH:138:LYS:HB2	2.06	0.55
32:AI:34:GLY:O	32:AI:35:LEU:HD23	2.07	0.55
32:AI:84:GLY:HA3	32:AI:89:TYR:CZ	2.41	0.55
32:AI:109:ILE:HG22	32:AI:110:ASP:N	2.15	0.55
34:AN:39:ARG:CD	34:AN:41:ASP:HB2	2.36	0.55
37:AQ:135:ASP:HB3	46:AZ:49:ARG:HH11	1.71	0.55
40:AT:55:ASN:C	40:AT:59:THR:HG22	2.31	0.55
51:A4:2:LYS:HB2	58:AB:40:U:O4	2.06	0.55
57:AA:330:A:O2'	57:AA:331:A:C8	2.56	0.55
57:AA:487:C:H2'	57:AA:488:G:H8	1.72	0.55
57:AA:1014:U:H2'	57:AA:1015:G:C5'	2.36	0.55
57:AA:2314:C:O2'	57:AA:2315:G:H5'	2.06	0.55
1:Bb:100:GLY:O	1:Bb:101:MET:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:167:PRO:HG2	1:Bb:192:SER:OG	2.07	0.55
1:Bb:211:ILE:O	1:Bb:215:LEU:HD23	2.06	0.55
1:Bb:222:ILE:HG22	1:Bb:223:ILE:N	2.22	0.55
2:Bc:64:VAL:HG11	2:Bc:66:VAL:HG23	1.86	0.55
10:Bk:37:GLY:O	10:Bk:39:PRO:HD3	2.06	0.55
11:Bl:20:LYS:NZ	11:Bl:20:LYS:HB3	2.21	0.55
18:Bs:14:HIS:CE1	22:Ba:1014:A:H4'	2.42	0.55
18:Bs:18:LYS:O	18:Bs:22:LEU:HB2	2.07	0.55
22:Ba:83:U:H2'	22:Ba:84:U:H5	1.71	0.55
22:Ba:189(A):C:H2'	22:Ba:189(B):C:C6	2.41	0.55
22:Ba:522:C:N4	22:Ba:528:C:H42	2.04	0.55
22:Ba:625:G:H2'	22:Ba:626:U:H6	1.70	0.55
22:Ba:817:C:H1'	22:Ba:819:A:H5'	1.89	0.55
25:Bw:51:C:H2'	25:Bw:52:G:H8	1.72	0.55
26:BC:166:ASN:HB3	26:BC:172:ILE:HB	1.87	0.55
27:BD:30:GLU:CD	27:BD:63:ARG:NE	2.64	0.55
27:BD:182:LEU:H	27:BD:272:ALA:HB3	1.70	0.55
27:BD:262:ARG:NH1	57:BA:2085:C:O2'	2.40	0.55
28:BE:120:TRP:O	28:BE:121:ASN:HB2	2.05	0.55
31:BH:24:VAL:CG1	31:BH:35:VAL:HB	2.36	0.55
31:BH:158:HIS:NE2	31:BH:169:VAL:C	2.65	0.55
36:BP:146:VAL:CG2	36:BP:147:LEU:H	2.08	0.55
39:BS:49:VAL:HG12	39:BS:50:SER:N	2.22	0.55
40:BT:50:ILE:O	40:BT:99:LEU:HD12	2.06	0.55
41:BU:31:SER:C	41:BU:33:ARG:H	2.14	0.55
42:BV:19:LYS:HZ3	42:BV:20:LEU:N	2.01	0.55
42:BV:25:LEU:H	42:BV:92:THR:HG21	1.70	0.55
46:BZ:59:LEU:O	46:BZ:61:LEU:HD23	2.07	0.55
51:B4:39:CYS:O	51:B4:40:HIS:CD2	2.59	0.55
57:BA:860:U:C5	57:BA:917:A:N7	2.74	0.55
57:BA:1472:A:O2'	57:BA:1473:G:H5'	2.05	0.55
57:BA:2498:C:O2'	57:BA:2499:C:H5'	2.07	0.55
1:Ab:114:ARG:HH11	1:Ab:118:LEU:HD21	1.72	0.55
2:Ac:15:THR:CG2	2:Ac:181:ASN:HA	2.36	0.55
11:Al:119:LYS:C	11:Al:120:TYR:CD1	2.85	0.55
22:Aa:97:G:HO2'	22:Aa:98:G:H5"	1.70	0.55
22:Aa:651:C:O2'	22:Aa:652:U:H5'	2.06	0.55
22:Aa:735:C:H2'	22:Aa:736:C:C6	2.38	0.55
22:Aa:975:A:H5'	22:Aa:975:A:H8	1.72	0.55
25:Aw:13:C:H2'	25:Aw:14:A:H8	1.72	0.55
27:AD:27:THR:HG23	27:AD:83:GLU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:270:ILE:C	27:AD:271:ILE:HG12	2.30	0.55
28:AE:36:ARG:HH22	28:AE:88:GLY:HA2	1.66	0.55
28:AE:69:LYS:HZ2	28:AE:89:ASP:HA	1.70	0.55
36:AP:47:ASP:HB3	36:AP:48:PRO:HA	1.89	0.55
37:AQ:32:TYR:OH	37:AQ:111:GLU:HG3	2.06	0.55
37:AQ:35:VAL:HG23	37:AQ:101:ARG:O	2.06	0.55
47:A0:70:GLN:NE2	47:A0:80:HIS:NE2	2.54	0.55
52:A5:33:CYS:C	52:A5:35:GLU:H	2.14	0.55
53:A6:47:THR:HG23	53:A6:49:HIS:CE1	2.41	0.55
57:AA:107:C:H2'	57:AA:108:U:C6	2.41	0.55
57:AA:738:G:O2'	57:AA:739:G:H5'	2.07	0.55
57:AA:1021:A:H2'	57:AA:1023:U:H5'	1.87	0.55
57:AA:2401:U:O2'	57:AA:2402:C:H5"	2.06	0.55
57:AA:2650:U:O2'	57:AA:2651:C:H5'	2.07	0.55
57:AA:2881:C:H2'	57:AA:2882:A:C8	2.41	0.55
1:Bb:12:GLU:C	1:Bb:14:GLY:N	2.62	0.55
3:Bd:43:HIS:O	3:Bd:45:GLN:N	2.37	0.55
3:Bd:93:PHE:O	3:Bd:97:LEU:HB2	2.07	0.55
7:Bh:29:SER:HB3	7:Bh:32:LYS:HG3	1.87	0.55
8:Bi:24:GLY:HA2	8:Bi:59:PHE:O	2.05	0.55
10:Bk:34:ASP:HB3	10:Bk:40:ILE:CD1	2.32	0.55
15:Bp:4:ILE:HD11	15:Bp:64:ALA:CB	2.36	0.55
18:Bs:56:GLN:HG3	18:Bs:57:HIS:N	2.20	0.55
19:Bt:99:LEU:O	19:Bt:101:GLY:N	2.39	0.55
22:Ba:180:U:H2'	22:Ba:181:G:C5'	2.36	0.55
22:Ba:506:G:H2'	22:Ba:507:C:H6	1.71	0.55
22:Ba:520:A:N1	22:Ba:536:C:H1'	2.20	0.55
22:Ba:1262:C:H42	22:Ba:1273:G:H1	1.55	0.55
26:BC:43:GLU:HG2	26:BC:216:THR:O	2.06	0.55
27:BD:130:ALA:C	27:BD:131:LEU:HD12	2.32	0.55
29:BF:31:HIS:O	29:BF:34:TRP:HB3	2.07	0.55
36:BP:15:ARG:HH11	57:BA:597:U:H4'	1.70	0.55
45:BY:53:PRO:O	45:BY:54:LYS:HG3	2.07	0.55
45:BY:95:LYS:HD3	45:BY:100:ALA:HB1	1.89	0.55
46:BZ:40:ASP:OD2	46:BZ:42:VAL:HG12	2.06	0.55
47:B0:43:THR:HG23	47:B0:43:THR:O	2.06	0.55
53:B6:43:CYS:O	53:B6:44:ARG:HB2	2.06	0.55
57:BA:1532:C:C2'	57:BA:1533:G:H5'	2.36	0.55
57:BA:2062:A:H5"	57:BA:2062:A:C4	2.41	0.55
5:Af:3:ARG:HD3	5:Af:64:GLN:NE2	2.21	0.55
9:Aj:8:LEU:CD2	9:Aj:96:ILE:HG22	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ak:26:ASN:ND2	22:Aa:692:U:H5	2.05	0.55
10:Ak:111:ASP:HA	17:Ar:84:LYS:HE2	1.87	0.55
12:Am:107:ALA:O	12:Am:109:THR:N	2.38	0.55
18:As:9:VAL:O	18:As:9:VAL:HG12	2.07	0.55
21:Ay:9:GLU:O	21:Ay:11:ALA:N	2.40	0.55
22:Aa:148:G:HO2'	22:Aa:149:A:H5'	1.71	0.55
22:Aa:417:C:O2'	22:Aa:418:C:H5'	2.06	0.55
22:Aa:1097:C:O2'	22:Aa:1098:C:H5'	2.07	0.55
25:Aw:7:G:H3'	25:Aw:8:U:H5'	1.89	0.55
26:AC:194:ILE:O	26:AC:198:GLU:HG3	2.06	0.55
27:AD:165:ILE:HD13	27:AD:175:LEU:HD21	1.88	0.55
29:AF:38:ARG:NH2	57:AA:660:G:O3'	2.40	0.55
30:AG:72:ARG:HB3	30:AG:87:PRO:HD2	1.87	0.55
31:AH:24:VAL:CG1	31:AH:35:VAL:HB	2.37	0.55
32:AI:3:VAL:HG12	32:AI:36:ALA:HB1	1.87	0.55
36:AP:102:ARG:CB	36:AP:102:ARG:NH2	2.70	0.55
42:AV:39:LEU:HD12	42:AV:51:VAL:HA	1.89	0.55
45:AY:49:VAL:HG12	45:AY:50:ARG:N	2.20	0.55
53:A6:37:ARG:NH2	57:AA:2286:A:H62	2.05	0.55
57:AA:110:G:O2'	57:AA:111:A:H5'	2.06	0.55
2:Bc:15:THR:CG2	2:Bc:181:ASN:HA	2.36	0.55
6:Bg:20:ASP:HB3	6:Bg:23:VAL:HG23	1.89	0.55
9:Bj:40:LEU:HB3	9:Bj:69:ASN:HB2	1.88	0.55
14:Bo:53:HIS:O	14:Bo:56:LEU:HB3	2.06	0.55
18:Bs:5:LEU:HD23	22:Ba:1319:A:OP2	2.06	0.55
19:Bt:46:GLU:HG2	19:Bt:46:GLU:O	2.06	0.55
19:Bt:84:LEU:C	19:Bt:84:LEU:HD13	2.32	0.55
21:By:3:TYR:HB3	21:By:73:VAL:HG23	1.88	0.55
21:By:59:GLY:O	21:By:80:LYS:HA	2.07	0.55
22:Ba:398:C:O2'	22:Ba:399:G:H5'	2.06	0.55
22:Ba:541:G:O2'	22:Ba:542:G:H5'	2.07	0.55
22:Ba:837:G:O2'	22:Ba:838:G:H5'	2.07	0.55
22:Ba:990:C:H2'	22:Ba:991:U:C6	2.42	0.55
27:BD:119:ALA:CB	27:BD:130:ALA:HB3	2.36	0.55
27:BD:210:GLY:C	27:BD:212:SER:H	2.15	0.55
29:BF:89:VAL:HG12	29:BF:90:PHE:H	1.71	0.55
29:BF:117:ARG:HH21	29:BF:187:VAL:HA	1.70	0.55
29:BF:150:GLY:HA2	29:BF:172:TRP:CD2	2.42	0.55
30:BG:91:ARG:C	30:BG:91:ARG:CD	2.80	0.55
32:BI:56:LYS:HA	32:BI:59:ALA:HB3	1.89	0.55
37:BQ:35:VAL:HG11	37:BQ:130:LYS:CE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:58:PHE:HD1	37:BQ:58:PHE:O	1.89	0.55
42:BV:19:LYS:HG2	42:BV:94:LEU:CB	2.24	0.55
47:B0:27:GLU:OE2	47:B0:69:PHE:HB2	2.05	0.55
53:B6:15:GLU:OE1	53:B6:41:PRO:HG3	2.06	0.55
57:BA:274:G:H3'	57:BA:274:G:N3	2.22	0.55
57:BA:1015:G:H5'	57:BA:1015:G:C8	2.34	0.55
57:BA:1291:C:H2'	57:BA:1292:U:H6	1.71	0.55
57:BA:1748:G:H8	57:BA:1748:G:H5'	1.72	0.55
57:BA:1966:A:H4'	57:BA:1967:C:OP1	2.06	0.55
57:BA:2074:U:H2'	57:BA:2075:U:C6	2.41	0.55
57:BA:2298:A:H62	57:BA:2318:G:H8	1.52	0.55
2:Ac:110:ASN:OD1	2:Ac:140:ARG:HD2	2.07	0.55
3:Ad:35:ARG:O	3:Ad:37:PRO:HD3	2.06	0.55
3:Ad:163:GLU:HG3	3:Ad:164:ALA:N	2.22	0.55
6:Ag:36:LYS:HB3	22:Aa:1373:G:H5"	1.89	0.55
8:Ai:96:LEU:O	8:Ai:102:LEU:HB2	2.07	0.55
9:Aj:40:LEU:CB	9:Aj:69:ASN:HB2	2.37	0.55
12:Am:82:MET:CB	12:Am:93:ARG:NH1	2.70	0.55
17:Ar:53:ARG:C	17:Ar:55:ARG:H	2.13	0.55
19:At:99:LEU:O	19:At:101:GLY:N	2.39	0.55
22:Aa:805:C:H2'	22:Aa:806:C:H6	1.71	0.55
22:Aa:880:C:O2'	22:Aa:881:G:H5'	2.07	0.55
27:AD:182:LEU:H	27:AD:272:ALA:HB3	1.71	0.55
30:AG:42:GLY:O	30:AG:44:GLY:N	2.39	0.55
31:AH:19:VAL:HG21	31:AH:43:VAL:O	2.07	0.55
36:AP:64:LYS:O	36:AP:66:GLY:N	2.39	0.55
37:AQ:56:ARG:HA	46:AZ:180:VAL:HG22	1.88	0.55
40:AT:128:GLU:O	40:AT:129:ARG:C	2.50	0.55
45:AY:44:ILE:C	45:AY:62:GLU:HG3	2.32	0.55
48:A1:25:LYS:HA	48:A1:29:GLY:HA2	1.87	0.55
57:AA:309:G:N3	57:AA:329:G:O2'	2.39	0.55
1:Bb:30:ARG:HH21	1:Bb:194:PRO:CG	2.20	0.55
1:Bb:178:ARG:NH2	7:Bh:68:ARG:HH22	2.05	0.55
4:Be:100:VAL:HG12	4:Be:118:ILE:HG22	1.88	0.55
10:Bk:26:ASN:ND2	22:Ba:692:U:H5	2.05	0.55
11:Bl:62:SER:O	11:Bl:64:TYR:HD1	1.90	0.55
16:Bq:63:ARG:HG2	16:Bq:64:PRO:CD	2.36	0.55
18:Bs:36:ARG:HB2	18:Bs:72:GLY:HA3	1.89	0.55
22:Ba:1128:C:H42	22:Ba:1143:G:H1	1.55	0.55
22:Ba:1452:C:O4'	22:Ba:1456:G:C2	2.60	0.55
30:BG:40:ASN:HD22	30:BG:91:ARG:CB	2.12	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:20:ALA:CB	31:BH:21:PRO:CD	2.85	0.55
31:BH:41:MET:HE2	31:BH:43:VAL:HG12	1.87	0.55
34:BN:133:GLN:O	34:BN:134:ARG:HB3	2.07	0.55
36:BP:100:LEU:HD22	36:BP:100:LEU:H	1.69	0.55
37:BQ:34:LEU:HD11	37:BQ:129:THR:HB	1.88	0.55
38:BR:118:GLU:HA	38:BR:118:GLU:OE1	2.06	0.55
41:BU:16:LYS:O	41:BU:20:LEU:HD23	2.07	0.55
45:BY:2:ARG:CZ	45:BY:3:VAL:HG23	2.36	0.55
45:BY:49:VAL:HG12	45:BY:50:ARG:N	2.22	0.55
51:B4:12:ALA:HB1	51:B4:29:PRO:CA	2.31	0.55
52:B5:51:TYR:CZ	52:B5:52:TYR:HB2	2.41	0.55
53:B6:25:LYS:CD	57:BA:2285:C:H41	2.20	0.55
57:BA:26:G:C6	57:BA:27:G:N1	2.75	0.55
57:BA:251:A:C5	57:BA:252:G:H1'	2.42	0.55
57:BA:2122:U:H2'	57:BA:2123:G:C8	2.42	0.55
3:Ad:100:ARG:NH1	3:Ad:137:SER:HA	2.21	0.55
6:Ag:122:HIS:O	6:Ag:125:MET:HB2	2.06	0.55
7:Ah:30:ARG:HB3	7:Ah:30:ARG:NH1	2.22	0.55
12:Am:23:TYR:HE1	12:Am:71:ARG:HD3	1.70	0.55
22:Aa:314:C:O2'	22:Aa:315:A:H5'	2.07	0.55
22:Aa:554:C:H2'	22:Aa:555:C:C6	2.42	0.55
22:Aa:961:U:O2'	22:Aa:962:C:H5'	2.07	0.55
22:Aa:1376:U:H2'	22:Aa:1377:A:C8	2.41	0.55
22:Aa:1436:U:O2'	22:Aa:1437:C:H5'	2.06	0.55
27:AD:17:THR:HG23	27:AD:205:VAL:HB	1.87	0.55
28:AE:68:ALA:C	28:AE:70:ALA:H	2.14	0.55
29:AF:63:LYS:HE2	57:AA:675:A:OP1	2.06	0.55
29:AF:176:LEU:HD12	29:AF:177:ALA:H	1.72	0.55
32:AI:46:ALA:HB2	57:AA:271(P):C:C5'	2.37	0.55
32:AI:77:LEU:HD22	32:AI:141:LYS:N	2.21	0.55
39:AS:48:LEU:HD12	39:AS:48:LEU:N	2.22	0.55
40:AT:3:ARG:CD	57:AA:2876:G:H4'	2.36	0.55
40:AT:28:VAL:O	40:AT:29:ARG:HB2	2.07	0.55
44:AX:64:LYS:HZ2	44:AX:73:ARG:NH2	1.99	0.55
46:AZ:35:ARG:HH11	46:AZ:35:ARG:HG3	1.72	0.55
46:AZ:145:GLU:O	46:AZ:147:GLY:N	2.40	0.55
49:A2:64:LEU:O	49:A2:68:ARG:HG2	2.07	0.55
54:A7:16:HIS:HA	54:A7:21:ARG:NH1	2.22	0.55
57:AA:809:G:O2'	57:AA:810:U:H5'	2.06	0.55
57:AA:1315:C:H2'	57:AA:1316:U:H6	1.72	0.55
1:Bb:185:ILE:CG2	1:Bb:199:TYR:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:60:ALA:O	2:Bc:61:ALA:HB2	2.07	0.55
3:Bd:110:PHE:HD1	3:Bd:110:PHE:N	2.04	0.55
4:Be:50:GLU:OE2	4:Be:51:VAL:HG23	2.07	0.55
8:Bi:27:THR:HG23	8:Bi:31:GLN:C	2.32	0.55
10:Bk:20:TYR:C	10:Bk:21:ILE:HD12	2.32	0.55
10:Bk:85:ARG:HG2	10:Bk:111:ASP:O	2.06	0.55
11:Bl:8:ASN:ND2	22:Ba:585:G:H4'	2.22	0.55
11:Bl:104:VAL:O	11:Bl:107:ALA:HB3	2.07	0.55
12:Bm:66:LEU:O	12:Bm:67:GLU:O	2.25	0.55
22:Ba:104:G:O2'	22:Ba:105:G:H5'	2.07	0.55
22:Ba:382:A:H2'	22:Ba:383:A:C8	2.42	0.55
31:BH:106:THR:HG22	31:BH:112:PRO:HB3	1.88	0.55
37:BQ:110:THR:HG23	37:BQ:113:GLN:CG	2.36	0.55
38:BR:7:GLY:O	38:BR:8:ARG:NE	2.38	0.55
41:BU:95:LEU:HD12	42:BV:11:GLN:HE21	1.72	0.55
44:BX:31:HIS:HE1	57:BA:71:A:H2	1.53	0.55
46:BZ:125:LEU:O	46:BZ:126:VAL:HG13	2.07	0.55
47:B0:37:LEU:O	47:B0:38:VAL:HG23	2.07	0.55
49:B2:10:LEU:HD22	49:B2:14:ARG:HH12	1.72	0.55
52:B5:55:ARG:O	52:B5:56:LYS:HB2	2.06	0.55
57:BA:654(N):G:H2'	57:BA:654(O):G:O4'	2.07	0.55
57:BA:1485:G:H8	57:BA:1485:G:H5'	1.72	0.55
57:BA:2506:U:H4'	57:BA:2507:C:OP1	2.07	0.55
57:BA:2836:U:H2'	57:BA:2837:G:C8	2.42	0.55
2:Ac:34:LEU:O	2:Ac:38:ARG:HG2	2.07	0.55
4:Ae:116:THR:HG22	4:Ae:117:ASP:OD1	2.07	0.55
6:Ag:64:GLN:HG3	6:Ag:68:ASN:ND2	2.21	0.55
9:Aj:34:VAL:HG13	9:Aj:73:ASP:O	2.07	0.55
10:Ak:107:SER:C	10:Ak:108:ILE:HD12	2.32	0.55
11:Al:113:ARG:HG3	11:Al:114:LYS:N	2.22	0.55
22:Aa:693:G:H2'	22:Aa:694:A:C8	2.41	0.55
22:Aa:908:A:H2'	22:Aa:909:A:C8	2.42	0.55
26:AC:2:PRO:HG2	26:AC:3:LYS:H	1.72	0.55
27:AD:80:ALA:HB3	27:AD:94:LEU:HD13	1.89	0.55
27:AD:244:ARG:HG3	57:AA:1902:C:H1'	1.89	0.55
29:AF:161:GLU:O	29:AF:165:ARG:HG3	2.07	0.55
30:AG:29:TRP:HB3	58:AB:57:A:C4	2.42	0.55
32:AI:112:LYS:HA	32:AI:116:LEU:HD22	1.89	0.55
33:AJ:54:ALA:HA	33:AJ:84:GLU:CB	2.36	0.55
36:AP:16:ARG:O	36:AP:16:ARG:NH1	2.37	0.55
37:AQ:101:ARG:HG3	37:AQ:102:VAL:N	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:AR:38:VAL:O	38:AR:42:LYS:HG3	2.07	0.55
42:AV:46:VAL:HG13	42:AV:47:VAL:N	2.21	0.55
43:AW:78:GLU:OE2	43:AW:99:ARG:HD2	2.06	0.55
45:AY:54:LYS:C	45:AY:56:PRO:HD2	2.32	0.55
48:A1:56:GLN:HB3	48:A1:87:PRO:HB3	1.87	0.55
52:A5:4:HIS:O	57:AA:2056:G:N2	2.40	0.55
57:AA:274:G:H3'	57:AA:274:G:N3	2.21	0.55
57:AA:1292:U:O2'	57:AA:1293:C:H5'	2.06	0.55
57:AA:1345:C:O2'	57:AA:1346:G:H5'	2.07	0.55
57:AA:1582:C:H2'	57:AA:1583:A:H8	1.72	0.55
57:AA:1966:A:H4'	57:AA:1967:C:OP1	2.07	0.55
57:AA:2298:A:H62	57:AA:2318:G:H8	1.55	0.55
1:Bb:48:MET:HE2	1:Bb:49:GLU:CA	2.36	0.55
2:Bc:119:ARG:HG3	2:Bc:119:ARG:NH1	2.22	0.55
3:Bd:150:GLU:CD	3:Bd:151:LYS:N	2.65	0.55
6:Bg:64:GLN:HG3	6:Bg:68:ASN:ND2	2.22	0.55
7:Bh:84:ARG:HH11	7:Bh:84:ARG:HG2	1.72	0.55
7:Bh:109:ILE:HG22	7:Bh:137:VAL:O	2.06	0.55
9:Bj:9:ARG:O	9:Bj:16:LEU:HD23	2.07	0.55
10:Bk:107:SER:C	10:Bk:108:ILE:HD12	2.32	0.55
11:Bl:110:VAL:CG2	11:Bl:120:TYR:HB3	2.37	0.55
12:Bm:65:LYS:CB	12:Bm:66:LEU:HG	2.37	0.55
12:Bm:85:GLY:O	12:Bm:86:CYS:HB3	2.07	0.55
22:Ba:80:G:H5"	22:Ba:83:U:OP1	2.07	0.55
22:Ba:180:U:H2'	22:Ba:181:G:H5"	1.89	0.55
22:Ba:601:C:H2'	22:Ba:602:A:H8	1.71	0.55
27:BD:127:VAL:HA	27:BD:193:VAL:HG13	1.88	0.55
27:BD:131:LEU:HD12	27:BD:131:LEU:N	2.22	0.55
27:BD:144:ALA:HB3	27:BD:192:THR:HG22	1.87	0.55
28:BE:37:ARG:HH12	57:BA:2784:C:H1'	1.72	0.55
28:BE:69:LYS:HZ2	28:BE:90:THR:N	2.04	0.55
29:BF:41:LEU:O	29:BF:44:ARG:HG2	2.07	0.55
30:BG:72:ARG:CB	30:BG:86:MET:HA	2.29	0.55
32:BI:127:VAL:HG22	32:BI:139:GLN:CB	2.36	0.55
34:BN:39:ARG:HH11	34:BN:39:ARG:HG2	1.71	0.55
42:BV:19:LYS:HB3	42:BV:94:LEU:O	2.07	0.55
48:B1:80:LEU:HB2	48:B1:82:LEU:HD21	1.89	0.55
53:B6:41:PRO:HG2	53:B6:43:CYS:O	2.06	0.55
53:B6:42:TRP:HA	53:B6:42:TRP:CE3	2.42	0.55
55:B8:59:LYS:HB2	55:B8:59:LYS:HZ3	1.67	0.55
57:BA:935:C:H2'	57:BA:936:C:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1713:U:O2'	57:BA:1714:G:H5'	2.07	0.55
57:BA:2853:C:H2'	57:BA:2854:G:C8	2.42	0.55
1:Ab:53:ARG:O	1:Ab:56:ARG:HB2	2.07	0.54
1:Ab:223:ILE:O	1:Ab:227:GLY:N	2.39	0.54
4:Ae:50:GLU:OE2	4:Ae:51:VAL:HG23	2.07	0.54
5:Af:91:VAL:HG11	17:Ar:72:ARG:NH1	2.22	0.54
11:Al:45:PRO:HB2	11:Al:49:ASN:O	2.07	0.54
12:Am:9:ILE:HD12	12:Am:9:ILE:N	2.22	0.54
21:Ay:62:LEU:CD1	21:Ay:78:VAL:HB	2.37	0.54
22:Aa:180:U:H2'	22:Aa:181:G:H5"	1.87	0.54
22:Aa:630:G:C2'	22:Aa:631:G:H5"	2.36	0.54
22:Aa:781:A:H2'	22:Aa:782:A:H5'	1.89	0.54
27:AD:262:ARG:NH1	57:AA:2085:C:O2'	2.40	0.54
29:AF:40:GLN:HE21	29:AF:184:TYR:HB2	1.72	0.54
30:AG:6:ALA:O	30:AG:10:LYS:HG3	2.07	0.54
32:AI:28:ASN:C	32:AI:32:PRO:HG2	2.33	0.54
36:AP:144:GLU:N	36:AP:145:PRO:CD	2.70	0.54
39:AS:66:ALA:HA	39:AS:69:VAL:HG12	1.89	0.54
44:AX:3:THR:O	44:AX:4:ALA:HB3	2.07	0.54
44:AX:64:LYS:NZ	44:AX:73:ARG:NH2	2.56	0.54
46:AZ:68:PRO:O	46:AZ:91:LEU:HD12	2.06	0.54
46:AZ:165:VAL:HG11	46:AZ:169:GLU:HB2	1.88	0.54
47:A0:26:TYR:HE2	57:AA:857:C:H1'	1.72	0.54
55:A8:30:ARG:O	57:AA:2420:C:N4	2.40	0.54
56:A9:19:ARG:HA	57:AA:2757:A:OP1	2.08	0.54
1:Bb:204:ASN:HD22	1:Bb:205:ASP:N	2.05	0.54
1:Bb:223:ILE:O	1:Bb:227:GLY:N	2.40	0.54
3:Bd:13:ARG:HD3	3:Bd:38:TYR:O	2.06	0.54
8:Bi:116:LYS:NZ	8:Bi:122:ALA:HB2	2.22	0.54
11:Bl:69:TYR:HB3	11:Bl:99:HIS:CD2	2.39	0.54
11:Bl:92:ASP:HB2	22:Ba:523:A:N1	2.21	0.54
12:Bm:40:ASN:ND2	12:Bm:43:THR:HG23	2.19	0.54
21:By:52:LYS:HZ2	21:By:54:LYS:HE3	1.70	0.54
22:Ba:52:G:O2'	22:Ba:53:A:H5'	2.06	0.54
22:Ba:314:C:O2'	22:Ba:315:A:H5'	2.06	0.54
22:Ba:781:A:H2'	22:Ba:782:A:H5'	1.89	0.54
22:Ba:1275:A:H2'	22:Ba:1276:G:C8	2.43	0.54
25:Bw:29:G:O2'	25:Bw:30:G:H5'	2.08	0.54
27:BD:26:LYS:O	27:BD:27:THR:HB	2.07	0.54
27:BD:80:ALA:HB3	27:BD:94:LEU:CD1	2.36	0.54
28:BE:59:VAL:HG23	28:BE:62:PRO:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:4:ILE:HG22	42:BV:4:ILE:O	2.07	0.54
43:BW:78:GLU:OE2	43:BW:99:ARG:HD2	2.06	0.54
46:BZ:44:PHE:CD1	46:BZ:44:PHE:C	2.85	0.54
53:B6:47:THR:HG23	53:B6:49:HIS:CE1	2.42	0.54
1:Ab:168:THR:HA	1:Ab:171:ALA:HB2	1.88	0.54
1:Ab:168:THR:HG23	1:Ab:192:SER:OG	2.07	0.54
2:Ac:119:ARG:HG3	2:Ac:119:ARG:NH1	2.23	0.54
12:Am:29:ARG:NH1	12:Am:64:TRP:CB	2.70	0.54
15:Ap:4:ILE:HD11	15:Ap:64:ALA:CB	2.38	0.54
16:Aq:76:LEU:HD12	16:Aq:77:VAL:N	2.22	0.54
22:Aa:857:C:H2'	22:Aa:858:G:O4'	2.07	0.54
28:AE:37:ARG:HH12	57:AA:2784:C:H1'	1.72	0.54
30:AG:82:LEU:C	30:AG:83:ARG:HG3	2.31	0.54
36:AP:123:LEU:C	36:AP:123:LEU:HD12	2.32	0.54
37:AQ:35:VAL:CG1	37:AQ:130:LYS:HE2	2.36	0.54
37:AQ:110:THR:HG23	37:AQ:113:GLN:CG	2.38	0.54
39:AS:106:ARG:O	39:AS:106:ARG:HD2	2.07	0.54
40:AT:88:ILE:HG22	40:AT:89:VAL:CG2	2.34	0.54
45:AY:9:LYS:HA	57:AA:85:G:OP1	2.07	0.54
46:AZ:108:PRO:C	46:AZ:110:GLY:N	2.62	0.54
57:AA:272(G):C:H42	57:AA:363(C):G:H1	1.55	0.54
57:AA:935:C:H2'	57:AA:936:C:C6	2.42	0.54
57:AA:1603:A:H5'	57:AA:1603:A:C8	2.41	0.54
57:AA:2329:G:H2'	57:AA:2330:G:H8	1.72	0.54
57:AA:2845:G:O2'	57:AA:2846:G:H5'	2.06	0.54
1:Bb:67:THR:CG2	1:Bb:155:LEU:HD21	2.32	0.54
1:Bb:165:VAL:HG23	1:Bb:166:ASP:N	2.22	0.54
2:Bc:64:VAL:HG12	2:Bc:66:VAL:HG23	1.89	0.54
4:Be:116:THR:HG22	4:Be:117:ASP:OD1	2.06	0.54
6:Bg:102:ARG:HH12	22:Ba:939:G:C5'	2.20	0.54
22:Ba:1258:G:H2'	22:Ba:1259:C:C6	2.42	0.54
22:Ba:1447:A:N3	22:Ba:1447:A:H2'	2.23	0.54
22:Ba:1517:G:H1'	57:BA:1919:A:O3'	2.07	0.54
28:BE:24:THR:HG23	28:BE:184:VAL:CG2	2.33	0.54
28:BE:51:PHE:C	28:BE:74:PRO:HB3	2.32	0.54
28:BE:80:GLU:CD	57:BA:2636:U:H4'	2.32	0.54
30:BG:15:VAL:HG21	30:BG:176:LEU:HD23	1.90	0.54
30:BG:108:ASN:O	30:BG:109:VAL:HG23	2.04	0.54
32:BI:77:LEU:HD21	32:BI:79:ILE:CB	2.36	0.54
34:BN:58:ASP:O	34:BN:60:ILE:HG13	2.07	0.54
39:BS:106:ARG:O	39:BS:106:ARG:HD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:2:ASN:O	40:BT:4:GLY:N	2.40	0.54
44:BX:12:VAL:HG11	44:BX:27:THR:OG1	2.08	0.54
45:BY:46:LYS:N	45:BY:62:GLU:HB2	2.20	0.54
57:BA:580:C:H2'	57:BA:581:C:C6	2.42	0.54
57:BA:1446:C:H2'	57:BA:1447:G:C8	2.41	0.54
57:BA:1478:G:HO2'	57:BA:1558:A:H2	1.56	0.54
57:BA:1494:A:H3'	57:BA:1494:A:N3	2.22	0.54
57:BA:1603:A:H5'	57:BA:1603:A:C8	2.42	0.54
1:Ab:111:ARG:HH11	1:Ab:111:ARG:HG2	1.73	0.54
6:Ag:77:SER:HB3	6:Ag:86:GLN:HB3	1.88	0.54
8:Ai:83:ARG:O	8:Ai:86:VAL:HG12	2.07	0.54
12:Am:13:LYS:HA	12:Am:44:ARG:NH1	2.21	0.54
22:Aa:47:C:H5"	22:Aa:365:U:C6	2.41	0.54
22:Aa:980:C:H5'	22:Aa:981:U:C5	2.42	0.54
26:AC:47:LYS:NZ	26:AC:169:THR:O	2.40	0.54
26:AC:52:PRO:HG2	26:AC:53:ARG:HD3	1.90	0.54
30:AG:29:TRP:HB3	58:AB:57:A:N3	2.22	0.54
31:AH:24:VAL:HG12	31:AH:35:VAL:O	2.07	0.54
34:AN:3:THR:C	34:AN:4:TYR:CD1	2.86	0.54
37:AQ:95:ALA:O	37:AQ:97:VAL:HG23	2.07	0.54
38:AR:10:LEU:HD22	38:AR:17:ARG:HD2	1.90	0.54
46:AZ:24:LEU:HD21	46:AZ:86:VAL:HG22	1.89	0.54
46:AZ:152:ALA:HA	46:AZ:167:PRO:HB2	1.87	0.54
48:A1:16:ASN:HA	48:A1:38:SER:O	2.06	0.54
57:AA:874:G:O2'	57:AA:875:G:H5'	2.08	0.54
57:AA:1291:C:H2'	57:AA:1292:U:H6	1.73	0.54
57:AA:1419:A:O2'	57:AA:1420:U:H5"	2.06	0.54
57:AA:1481:U:H5'	57:AA:1482:G:OP2	2.06	0.54
57:AA:2492:U:O2'	57:AA:2493:U:H5'	2.07	0.54
57:AA:2776:A:H4'	57:AA:2777:G:H5"	1.89	0.54
2:Bc:110:ASN:OD1	2:Bc:140:ARG:HD2	2.06	0.54
4:Be:6:PHE:HD1	4:Be:63:ARG:NH1	2.06	0.54
4:Be:100:VAL:O	4:Be:100:VAL:HG23	2.07	0.54
5:Bf:19:LEU:HD23	5:Bf:19:LEU:C	2.32	0.54
7:Bh:20:TYR:HA	7:Bh:65:TYR:HE2	1.71	0.54
9:Bj:4:ILE:CB	9:Bj:74:ILE:HD11	2.26	0.54
12:Bm:104:ARG:HD2	22:Ba:1226:C:N4	2.22	0.54
19:Bt:10:LEU:HD23	22:Ba:332:G:OP2	2.08	0.54
21:By:26:LEU:O	21:By:30:LEU:HB2	2.07	0.54
21:By:81:ARG:O	21:By:83:ARG:N	2.39	0.54
22:Ba:97:G:HO2'	22:Ba:98:G:H5"	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:779:C:O2'	22:Ba:780:A:H5'	2.08	0.54
22:Ba:1423:G:C5'	35:BO:49:ARG:HH21	2.19	0.54
30:BG:85:GLY:O	30:BG:86:MET:CB	2.55	0.54
32:BI:62:LYS:HE3	32:BI:133:HIS:O	2.07	0.54
33:BJ:67:GLY:HA2	33:BJ:73:GLY:H	1.73	0.54
35:BO:7:TYR:CZ	35:BO:44:LYS:HG3	2.42	0.54
36:BP:38:GLN:CG	36:BP:39:LYS:H	2.09	0.54
36:BP:48:PRO:CG	36:BP:49:ARG:N	2.69	0.54
36:BP:123:LEU:C	36:BP:123:LEU:HD12	2.31	0.54
38:BR:18:LEU:HD21	38:BR:22:ARG:NE	2.23	0.54
45:BY:9:LYS:HA	57:BA:85:G:OP1	2.06	0.54
46:BZ:184:ALA:O	46:BZ:185:GLU:HB3	2.07	0.54
57:BA:654(M):C:H2'	57:BA:654(N):G:N7	2.23	0.54
57:BA:1037:G:H1	57:BA:1118:C:H42	1.53	0.54
57:BA:2208:A:H1'	57:BA:2219:G:C4	2.43	0.54
57:BA:2776:A:H4'	57:BA:2777:G:H5"	1.89	0.54
1:Ab:17:PHE:H	1:Ab:17:PHE:HD2	1.56	0.54
18:As:56:GLN:HG3	18:As:57:HIS:N	2.23	0.54
22:Aa:926:G:H22	23:Ax:16:A:P	2.30	0.54
22:Aa:936:C:O2'	22:Aa:937:A:H5'	2.08	0.54
22:Aa:1053:G:H3'	22:Aa:1054:C:H5'	1.87	0.54
22:Aa:1399:C:H4'	22:Aa:1400:C:O5'	2.06	0.54
27:AD:138:VAL:O	27:AD:138:VAL:HG13	2.07	0.54
28:AE:77:ILE:HG22	28:AE:78:LEU:CD1	2.36	0.54
28:AE:131:ALA:HB2	57:AA:2579:C:O3'	2.06	0.54
30:AG:140:ILE:HD12	30:AG:140:ILE:C	2.32	0.54
32:AI:100:ALA:O	32:AI:103:ARG:N	2.41	0.54
33:AJ:57:THR:O	33:AJ:58:LEU:CB	2.54	0.54
36:AP:9:ASN:N	36:AP:10:PRO:HD2	2.14	0.54
36:AP:62:LEU:HG	57:AA:2394:C:P	2.47	0.54
39:AS:53:SER:C	39:AS:55:ALA:H	2.15	0.54
40:AT:6:LEU:O	40:AT:6:LEU:HD23	2.07	0.54
40:AT:113:LYS:HE3	57:AA:1754:C:OP2	2.07	0.54
42:AV:40:LEU:N	42:AV:40:LEU:CD2	2.71	0.54
43:AW:95:ILE:O	43:AW:95:ILE:HG13	2.07	0.54
47:A0:19:LYS:HD3	47:A0:41:ARG:NH2	2.21	0.54
49:A2:44:LEU:O	49:A2:45:SER:CB	2.55	0.54
49:A2:47:ASN:ND2	57:AA:94(A):G:H21	2.06	0.54
57:AA:332:A:O2'	57:AA:334:C:OP2	2.22	0.54
57:AA:478:A:N1	57:AA:500:G:H4'	2.23	0.54
3:Bd:35:ARG:O	3:Bd:37:PRO:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bh:9:MET:O	7:Bh:13:ILE:HG12	2.07	0.54
7:Bh:65:TYR:N	7:Bh:65:TYR:CD1	2.74	0.54
14:Bo:72:ARG:HH11	14:Bo:72:ARG:HG2	1.72	0.54
18:Bs:64:GLU:HG3	18:Bs:65:ASN:H	1.71	0.54
19:Bt:26:ASN:ND2	19:Bt:26:ASN:N	2.55	0.54
22:Ba:358:U:O2'	22:Ba:359:U:H5'	2.07	0.54
27:BD:63:ARG:HH22	57:BA:1568:G:P	2.31	0.54
27:BD:245:PRO:O	27:BD:246:PRO:C	2.50	0.54
32:BI:11:ASN:C	32:BI:12:LEU:HD23	2.33	0.54
32:BI:69:LYS:HA	32:BI:136:VAL:CG1	2.36	0.54
33:BJ:8:GLU:C	33:BJ:10:LEU:H	2.15	0.54
39:BS:33:LYS:HG3	58:BB:52:A:H62	1.73	0.54
40:BT:19:LEU:HD22	40:BT:85:LYS:HG3	1.90	0.54
40:BT:34:VAL:HG12	40:BT:35:LYS:N	2.22	0.54
41:BU:92:ARG:HD2	42:BV:11:GLN:HB2	1.89	0.54
43:BW:1:MET:CE	43:BW:2:GLU:H	2.18	0.54
43:BW:5:ALA:HB1	43:BW:50:VAL:HG22	1.90	0.54
47:B0:10:THR:HG21	57:BA:2277:G:OP2	2.07	0.54
52:B5:2:ALA:HB3	57:BA:747:U:C1'	2.38	0.54
52:B5:33:CYS:C	52:B5:35:GLU:H	2.15	0.54
57:BA:1038:C:H2'	57:BA:1039:G:H5"	1.90	0.54
57:BA:1260:G:O2'	57:BA:1261:C:H5'	2.06	0.54
57:BA:1412:A:H2'	57:BA:1413:G:C8	2.43	0.54
57:BA:2314:C:O2'	57:BA:2315:G:H5'	2.08	0.54
57:BA:2472:G:H5'	57:BA:2473:U:H5"	1.89	0.54
58:BB:106:G:O2'	58:BB:107:G:H5'	2.08	0.54
1:Ab:134:GLU:O	1:Ab:138:LEU:HB2	2.06	0.54
2:Ac:8:ILE:C	2:Ac:10:PHE:H	2.14	0.54
2:Ac:43:LEU:HB3	2:Ac:47:LEU:HD23	1.90	0.54
2:Ac:77:ILE:HG23	2:Ac:84:ILE:HG22	1.90	0.54
14:Ao:76:GLU:C	14:Ao:78:TYR:H	2.16	0.54
21:Ay:19:GLY:HA2	22:Aa:1051:C:H5'	1.90	0.54
22:Aa:383:A:H2'	22:Aa:384:G:O4'	2.07	0.54
22:Aa:1003:G:H22	22:Aa:1038:C:H42	1.53	0.54
22:Aa:1305:G:C2	22:Aa:1331:G:N3	2.75	0.54
22:Aa:1319:A:N6	22:Aa:1361:G:H21	2.05	0.54
25:Aw:31:G:H2'	25:Aw:32:C:O4'	2.08	0.54
30:AG:57:ALA:HA	30:AG:90:LEU:CD2	2.36	0.54
30:AG:77:ILE:C	30:AG:79:ASN:N	2.66	0.54
34:AN:57:ALA:C	34:AN:58:ASP:O	2.51	0.54
37:AQ:12:GLN:HA	57:AA:910:A:H62	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:AQ:60:ARG:HB2	37:AQ:60:ARG:HH11	1.71	0.54
39:AS:14:VAL:HG12	39:AS:14:VAL:O	2.07	0.54
40:AT:8:LYS:HA	40:AT:11:GLU:OE1	2.06	0.54
42:AV:21:ARG:NH1	42:AV:91:TYR:CE2	2.75	0.54
54:A7:12:ARG:HG3	57:AA:686:G:O6	2.07	0.54
57:AA:1534:U:H2'	57:AA:1535:A:O4'	2.08	0.54
57:AA:1784:A:H4'	57:AA:1785:A:O5'	2.07	0.54
57:AA:1799:G:H5'	57:AA:1819:A:N6	2.23	0.54
57:AA:2378:A:H8	57:AA:2378:A:O5'	1.91	0.54
57:AA:2394:C:H2'	57:AA:2395:C:H6	1.72	0.54
2:Bc:8:ILE:C	2:Bc:10:PHE:N	2.64	0.54
2:Bc:76:VAL:HG23	2:Bc:77:ILE:N	2.23	0.54
5:Bf:68:PRO:HG3	5:Bf:71:ARG:NH2	2.22	0.54
9:Bj:9:ARG:HG2	9:Bj:69:ASN:OD1	2.08	0.54
14:Bo:26:GLU:OE2	14:Bo:77:ARG:HB2	2.07	0.54
14:Bo:62:GLN:O	14:Bo:66:LEU:HD13	2.08	0.54
25:Bw:30:G:H1	25:Bw:40:C:N4	2.04	0.54
25:Bw:74:C:H2'	25:Bw:75:C:C6	2.42	0.54
27:BD:166:GLN:HE21	27:BD:166:GLN:N	2.06	0.54
29:BF:21:ALA:C	29:BF:23:ASP:N	2.66	0.54
37:BQ:60:ARG:HA	46:BZ:179:ASP:HA	1.89	0.54
38:BR:12:ARG:HD3	38:BR:16:HIS:CD2	2.42	0.54
40:BT:28:VAL:O	40:BT:29:ARG:CB	2.55	0.54
41:BU:90:VAL:CG1	41:BU:91:ASP:N	2.67	0.54
57:BA:1354:A:H2'	57:BA:1355:G:O4'	2.08	0.54
57:BA:1485:G:H2'	57:BA:1486:A:H8	1.71	0.54
57:BA:1719:G:O2'	57:BA:1720:U:H5'	2.06	0.54
57:BA:1972:A:H2'	57:BA:1973:G:C8	2.41	0.54
57:BA:2195:C:O2'	57:BA:2196:C:H5'	2.07	0.54
57:BA:2243:U:H2'	57:BA:2244:U:C6	2.41	0.54
57:BA:2455:G:H2'	57:BA:2456:C:C6	2.42	0.54
1:Ab:167:PRO:HG2	1:Ab:192:SER:OG	2.08	0.54
4:Ae:93:PRO:CG	7:Ah:105:ARG:HH21	2.17	0.54
6:Ag:109:ASN:HA	6:Ag:119:ARG:HE	1.72	0.54
10:Ak:33:THR:HB	10:Ak:37:GLY:HA2	1.88	0.54
13:An:5:ALA:CB	22:Aa:1216:G:H5"	2.37	0.54
13:An:15:LYS:HB3	13:An:16:PHE:CD2	2.43	0.54
22:Aa:625:G:H2'	22:Aa:626:U:H6	1.69	0.54
22:Aa:729:A:H2'	22:Aa:730:G:H8	1.72	0.54
22:Aa:990:C:H2'	22:Aa:991:U:C6	2.42	0.54
26:AC:43:GLU:HG2	26:AC:216:THR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:61:ARG:HG3	57:AA:2787:C:H1'	1.88	0.54
29:AF:176:LEU:HD11	29:AF:180:GLY:HA3	1.90	0.54
31:AH:50:VAL:CG1	31:AH:51:ARG:N	2.70	0.54
40:AT:106:SER:CB	40:AT:110:ILE:HD11	2.38	0.54
44:AX:59:VAL:O	44:AX:60:ARG:C	2.50	0.54
46:AZ:52:SER:OG	46:AZ:53:ILE:N	2.39	0.54
48:A1:94:LEU:CD2	48:A1:94:LEU:H	2.20	0.54
49:A2:46:GLN:HG2	49:A2:49:LYS:HE3	1.90	0.54
53:A6:41:PRO:C	53:A6:43:CYS:N	2.65	0.54
57:AA:1412:A:H2'	57:AA:1413:G:C8	2.43	0.54
57:AA:1993:U:H2'	57:AA:1994:C:O4'	2.08	0.54
57:AA:2498:C:O2'	57:AA:2499:C:H5'	2.07	0.54
58:AB:54:G:O2'	58:AB:55:U:H5'	2.07	0.54
2:Bc:127:ARG:HH11	2:Bc:127:ARG:HG2	1.73	0.54
6:Bg:25:ALA:HA	6:Bg:28:ASN:HD22	1.71	0.54
9:Bj:38:ILE:O	9:Bj:38:ILE:HG13	2.06	0.54
10:Bk:30:VAL:HG21	10:Bk:65:ALA:HA	1.89	0.54
14:Bo:64:ARG:HH11	14:Bo:64:ARG:HG3	1.73	0.54
17:Br:58:LEU:HB3	17:Br:62:GLU:HB3	1.88	0.54
22:Ba:19:C:O2'	22:Ba:20:U:H5'	2.08	0.54
22:Ba:349:A:O2'	22:Ba:350:G:H5'	2.08	0.54
27:BD:176:ARG:HH11	27:BD:176:ARG:CG	2.21	0.54
27:BD:226:MET:HB3	27:BD:230:ASP:HB2	1.88	0.54
28:BE:34:VAL:HG11	28:BE:78:LEU:CD2	2.38	0.54
29:BF:155:LEU:HD22	29:BF:186:ILE:HA	1.89	0.54
30:BG:125:PHE:HD2	30:BG:131:TYR:HB2	1.73	0.54
32:BI:6:LEU:O	32:BI:7:GLU:C	2.50	0.54
33:BJ:56:ASN:O	33:BJ:58:LEU:N	2.41	0.54
34:BN:15:LEU:HD13	34:BN:15:LEU:C	2.33	0.54
34:BN:133:GLN:O	34:BN:134:ARG:CB	2.56	0.54
36:BP:75:ILE:HD12	36:BP:75:ILE:H	1.72	0.54
37:BQ:67:ARG:HH11	37:BQ:67:ARG:HG2	1.73	0.54
38:BR:13:HIS:CE1	38:BR:16:HIS:H	2.25	0.54
39:BS:46:VAL:HG13	58:BB:114:C:O2'	2.08	0.54
40:BT:106:SER:CB	40:BT:110:ILE:HD11	2.37	0.54
43:BW:34:ASN:ND2	52:B5:39:MET:CB	2.71	0.54
44:BX:24:GLY:O	44:BX:82:GLN:HA	2.07	0.54
45:BY:14:LEU:HD11	45:BY:22:GLY:HA2	1.88	0.54
46:BZ:153:SER:HB2	46:BZ:163:LEU:HD11	1.88	0.54
47:B0:51:VAL:CG2	47:B0:81:VAL:HG23	2.37	0.54
55:B8:50:LEU:C	55:B8:53:PRO:CD	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:63:PRO:O	55:B8:64:TYR:O	2.26	0.54
2:Ac:52:LEU:HD23	2:Ac:52:LEU:H	1.73	0.54
2:Ac:76:VAL:HG23	2:Ac:77:ILE:N	2.22	0.54
4:Ae:101:ILE:HD13	4:Ae:101:ILE:H	1.72	0.54
6:Ag:20:ASP:HB3	6:Ag:23:VAL:HG23	1.89	0.54
7:Ah:6:ILE:O	7:Ah:7:ALA:C	2.51	0.54
9:Aj:9:ARG:O	9:Aj:16:LEU:HD23	2.08	0.54
9:Aj:9:ARG:HG2	9:Aj:69:ASN:OD1	2.07	0.54
9:Aj:52:GLY:H	22:Aa:1060:C:H4'	1.73	0.54
12:Am:85:GLY:O	12:Am:86:CYS:HB3	2.07	0.54
12:Am:86:CYS:HA	18:As:73:GLU:O	2.08	0.54
12:Am:91:ARG:CB	12:Am:96:LEU:HB2	2.36	0.54
15:Ap:39:TYR:CE2	15:Ap:41:PRO:HB3	2.42	0.54
22:Aa:628:G:O2'	22:Aa:629:G:H5'	2.08	0.54
22:Aa:803:G:C6	22:Aa:804:U:N3	2.76	0.54
22:Aa:1030(D):A:H2'	22:Aa:1031:G:H5'	1.90	0.54
27:AD:45:ASN:ND2	27:AD:50:THR:HG21	2.22	0.54
27:AD:71:ASP:HB2	27:AD:103:ARG:NH2	2.22	0.54
27:AD:166:GLN:HE21	27:AD:166:GLN:N	2.06	0.54
28:AE:176:ILE:HB	28:AE:181:LEU:HB2	1.90	0.54
29:AF:28:ILE:H	29:AF:28:ILE:CD1	2.21	0.54
30:AG:121:ASN:CG	30:AG:122:PRO:HD2	2.33	0.54
34:AN:3:THR:C	34:AN:4:TYR:CG	2.86	0.54
35:AO:35:VAL:HG11	35:AO:103:ALA:HB3	1.89	0.54
37:AQ:14:ARG:HH11	37:AQ:14:ARG:HG2	1.71	0.54
40:AT:118:ARG:HA	40:AT:121:ILE:HD12	1.90	0.54
43:AW:5:ALA:HB1	43:AW:50:VAL:HG22	1.90	0.54
44:AX:44:GLU:HG2	44:AX:51:VAL:HG23	1.90	0.54
45:AY:2:ARG:CZ	45:AY:3:VAL:HG23	2.37	0.54
45:AY:3:VAL:H	45:AY:5:MET:HE3	1.72	0.54
46:AZ:176:PRO:HB2	46:AZ:177:PRO:HD2	1.89	0.54
48:A1:75:GLU:O	48:A1:78:LYS:HB2	2.07	0.54
49:A2:25:VAL:HG13	49:A2:57:ILE:HG23	1.89	0.54
49:A2:63:VAL:HA	49:A2:66:GLU:CG	2.37	0.54
56:A9:6:SER:HB2	57:AA:2466:C:H5"	1.89	0.54
57:AA:272(E):G:C2	57:AA:364:C:N3	2.75	0.54
57:AA:654(N):G:H2'	57:AA:654(O):G:O4'	2.06	0.54
57:AA:2732:G:C3'	57:AA:2733:A:H5'	2.38	0.54
7:Bh:30:ARG:HB3	7:Bh:30:ARG:NH1	2.22	0.54
10:Bk:65:ALA:HB1	10:Bk:98:LEU:CD2	2.38	0.54
10:Bk:111:ASP:HA	17:Br:84:LYS:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bn:5:ALA:CB	22:Ba:1216:G:H5"	2.37	0.54
15:Bp:51:VAL:O	15:Bp:53:VAL:N	2.41	0.54
17:Br:87:ARG:HB3	17:Br:87:ARG:NH1	2.23	0.54
22:Ba:189(C):C:O2'	22:Ba:189(D):C:H5'	2.07	0.54
22:Ba:539:A:H2'	22:Ba:540:G:H8	1.73	0.54
22:Ba:712:A:O2'	22:Ba:713:G:H5'	2.07	0.54
22:Ba:956:U:O2'	22:Ba:957:U:H5'	2.07	0.54
22:Ba:997:U:H2'	22:Ba:998:G:H8	1.72	0.54
22:Ba:1327:C:H2'	22:Ba:1328:C:C6	2.42	0.54
22:Ba:1406:U:H2'	22:Ba:1407:C:C6	2.43	0.54
25:Bw:30:G:H1	25:Bw:40:C:H42	1.56	0.54
27:BD:31:LYS:O	27:BD:33:LEU:N	2.40	0.54
32:BI:54:GLN:HA	32:BI:57:ARG:HB3	1.88	0.54
32:BI:112:LYS:HD2	32:BI:112:LYS:N	2.23	0.54
32:BI:116:LEU:HG	32:BI:117:GLU:N	2.22	0.54
32:BI:126:TYR:H	32:BI:140:LEU:CD2	2.21	0.54
37:BQ:12:GLN:HE21	37:BQ:73:PRO:CD	2.20	0.54
38:BR:28:LEU:HD12	38:BR:48:VAL:HG21	1.88	0.54
39:BS:48:LEU:HD12	39:BS:48:LEU:N	2.23	0.54
41:BU:59:ARG:HD3	57:BA:1009:A:C4'	2.38	0.54
42:BV:39:LEU:HB3	42:BV:47:VAL:HG11	1.88	0.54
45:BY:27:VAL:HG12	45:BY:29:GLU:OE1	2.08	0.54
53:B6:37:ARG:NH2	57:BA:2286:A:H62	2.05	0.54
57:BA:738:G:O2'	57:BA:739:G:H5'	2.08	0.54
57:BA:772:C:O2'	57:BA:773:U:H5'	2.07	0.54
57:BA:874:G:O2'	57:BA:875:G:H5'	2.06	0.54
57:BA:1534:U:H2'	57:BA:1535:A:O4'	2.08	0.54
57:BA:2842:G:O2'	57:BA:2843:G:H5'	2.07	0.54
57:BA:2866:U:H2'	57:BA:2866:U:O2	2.07	0.54
2:Ac:181:ASN:ND2	2:Ac:204:LEU:HB2	2.23	0.54
8:Ai:89:ASN:OD1	8:Ai:91:ASP:HB2	2.08	0.54
8:Ai:114:TYR:HE1	9:Aj:60:ARG:O	1.90	0.54
9:Aj:57:LYS:CG	22:Aa:972:C:H4'	2.38	0.54
11:Al:7:ILE:HG23	11:Al:8:ASN:N	2.23	0.54
11:Al:110:VAL:CG2	11:Al:120:TYR:HB3	2.38	0.54
16:Aq:18:THR:HG23	16:Aq:69:LYS:HE3	1.89	0.54
21:Ay:44:LEU:C	21:Ay:45:ARG:HG3	2.33	0.54
22:Aa:80:G:H5"	22:Aa:83:U:OP1	2.07	0.54
22:Aa:779:C:O2'	22:Aa:780:A:H5'	2.08	0.54
22:Aa:1258:G:H2'	22:Aa:1259:C:C6	2.43	0.54
22:Aa:1513:A:H2'	22:Aa:1514:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:57:LYS:C	28:AE:59:VAL:H	2.15	0.54
28:AE:110:GLY:O	38:AR:2:ARG:HG2	2.08	0.54
30:AG:67:LYS:O	30:AG:67:LYS:HD2	2.06	0.54
30:AG:165:THR:C	30:AG:167:GLU:H	2.16	0.54
31:AH:20:ALA:CB	31:AH:21:PRO:CD	2.85	0.54
31:AH:116:GLU:CD	31:AH:116:GLU:C	2.76	0.54
35:AO:103:ALA:HB1	35:AO:105:GLU:OE1	2.08	0.54
39:AS:105:ALA:C	39:AS:107:GLU:N	2.66	0.54
41:AU:53:ARG:NH1	57:AA:535:C:O3'	2.40	0.54
44:AX:24:GLY:O	44:AX:82:GLN:HA	2.08	0.54
46:AZ:81:ARG:NH1	46:AZ:81:ARG:CB	2.62	0.54
46:AZ:104:PHE:HB3	46:AZ:141:VAL:HG21	1.90	0.54
49:A2:53:LEU:O	49:A2:57:ILE:HG12	2.08	0.54
54:A7:8:ASN:HD22	54:A7:9:ARG:N	2.04	0.54
54:A7:16:HIS:ND1	57:AA:465:G:H4'	2.23	0.54
57:AA:30:G:O2'	57:AA:31:C:H5'	2.07	0.54
57:AA:1472:A:O2'	57:AA:1473:G:H5'	2.07	0.54
57:AA:1590:U:H2'	57:AA:1591:G:C5'	2.20	0.54
57:AA:1652:A:O2'	57:AA:1653:G:H5'	2.07	0.54
57:AA:1667:G:H22	57:AA:1992:G:H5'	1.72	0.54
57:AA:2443:C:H2'	57:AA:2444:G:H8	1.73	0.54
1:Bb:16:HIS:HD2	1:Bb:209:ARG:C	2.16	0.54
1:Bb:79:ASP:C	1:Bb:81:VAL:N	2.66	0.54
1:Bb:95:GLN:HA	1:Bb:95:GLN:OE1	2.06	0.54
4:Be:101:ILE:HD13	4:Be:101:ILE:N	2.23	0.54
6:Bg:122:HIS:O	6:Bg:125:MET:HB2	2.07	0.54
8:Bi:104:ARG:O	8:Bi:105:ASP:CB	2.34	0.54
8:Bi:104:ARG:HG3	8:Bi:104:ARG:NH1	2.22	0.54
21:By:92:LYS:O	21:By:93:ARG:HG2	2.08	0.54
22:Ba:762:C:H2'	22:Ba:763:G:H8	1.73	0.54
22:Ba:1399:C:C2	22:Ba:1502:A:N6	2.76	0.54
22:Ba:1425:U:H2'	22:Ba:1426:C:C6	2.39	0.54
24:Bv:64:G:H2'	24:Bv:65:C:H6	1.72	0.54
25:Bw:38:A:C2'	25:Bw:39:C:H5'	2.37	0.54
26:BC:30:VAL:HG11	26:BC:42:VAL:CG2	2.37	0.54
27:BD:239:ARG:HG2	57:BA:2591:C:P	2.48	0.54
28:BE:118:LYS:H	28:BE:121:ASN:H	1.54	0.54
29:BF:74:ARG:HD3	57:BA:674:G:H1'	1.89	0.54
30:BG:42:GLY:HA2	57:BA:2312:U:H1'	1.90	0.54
32:BI:97:ILE:O	32:BI:101:LEU:HD13	2.08	0.54
36:BP:7:ARG:HB3	36:BP:7:ARG:CZ	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:32:GLY:C	38:BR:33:ARG:HD2	2.33	0.54
45:BY:17:SER:O	57:BA:310:A:OP1	2.26	0.54
46:BZ:71:VAL:HA	46:BZ:87:ASP:O	2.08	0.54
54:B7:19:ARG:HH11	54:B7:19:ARG:HG2	1.73	0.54
57:BA:107:C:H2'	57:BA:108:U:C6	2.42	0.54
57:BA:409:C:H2'	57:BA:410:G:C8	2.42	0.54
57:BA:498:G:O2'	57:BA:499:U:H5'	2.07	0.54
57:BA:1315:C:H2'	57:BA:1316:U:H6	1.72	0.54
57:BA:1518:U:H2'	57:BA:1519:G:O4'	2.08	0.54
57:BA:1845:G:H2'	57:BA:1846:G:C5'	2.09	0.54
57:BA:2320:A:H2'	57:BA:2320:A:N3	2.22	0.54
57:BA:2419:U:H2'	57:BA:2420:C:H6	1.73	0.54
57:BA:2524:G:H5'	57:BA:2524:G:C8	2.36	0.54
57:BA:2661:G:H2'	57:BA:2662:A:C8	2.42	0.54
1:Ab:14:GLY:C	1:Ab:15:VAL:HG22	2.31	0.54
1:Ab:121:LEU:HB3	1:Ab:127:ILE:HD11	1.88	0.54
3:Ad:79:PHE:O	3:Ad:82:ALA:HB3	2.07	0.54
4:Ae:18:ARG:NH1	4:Ae:25:ARG:HB3	2.22	0.54
5:Af:14:LEU:HD22	5:Af:18:GLN:NE2	2.22	0.54
6:Ag:67:GLU:HA	6:Ag:67:GLU:OE2	2.08	0.54
8:Ai:110:GLU:OE2	8:Ai:119:ALA:HB1	2.08	0.54
10:Ak:59:TYR:CZ	10:Ak:63:LEU:HD21	2.43	0.54
14:Ao:36:ILE:HG22	14:Ao:37:ASN:N	2.22	0.54
16:Aq:10:VAL:HG13	16:Aq:19:VAL:HB	1.90	0.54
19:At:84:LEU:C	19:At:84:LEU:HD13	2.32	0.54
22:Aa:6:G:H4'	22:Aa:298:A:H4'	1.89	0.54
22:Aa:57:G:H2'	22:Aa:58:C:H6	1.72	0.54
22:Aa:189(J):G:O2'	22:Aa:189(K):U:H5'	2.08	0.54
22:Aa:356:A:H1'	22:Aa:368:U:O2'	2.08	0.54
22:Aa:398:C:O2'	22:Aa:399:G:H5'	2.08	0.54
22:Aa:1369:C:H2'	22:Aa:1370:G:C8	2.43	0.54
27:AD:101:GLU:HB2	57:AA:1491:G:O2'	2.08	0.54
28:AE:47:VAL:HG22	28:AE:49:LEU:HD23	1.90	0.54
28:AE:120:TRP:O	28:AE:121:ASN:HB2	2.08	0.54
28:AE:131:ALA:HB3	57:AA:2579:C:O2'	2.08	0.54
29:AF:22:ALA:C	29:AF:24:LEU:H	2.15	0.54
29:AF:122:LYS:HE2	29:AF:122:LYS:CA	2.36	0.54
30:AG:48:GLU:O	30:AG:49:ASP:CB	2.56	0.54
31:AH:7:LEU:HD23	31:AH:69:ARG:CG	2.37	0.54
32:AI:68:LEU:CG	32:AI:72:LEU:HD11	2.38	0.54
33:AJ:10:LEU:CB	57:AA:1046:A:H1'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AO:64:ARG:NH1	40:AT:70:VAL:CG2	2.71	0.54
40:AT:62:THR:HA	40:AT:74:ARG:O	2.08	0.54
41:AU:74:LEU:H	41:AU:74:LEU:HD13	1.73	0.54
42:AV:91:TYR:HD1	42:AV:91:TYR:H	1.56	0.54
45:AY:2:ARG:NE	45:AY:3:VAL:HG23	2.23	0.54
45:AY:7:VAL:HG21	45:AY:8:LYS:NZ	2.23	0.54
45:AY:46:LYS:N	45:AY:62:GLU:HB2	2.20	0.54
49:A2:28:LYS:O	49:A2:53:LEU:HD21	2.08	0.54
53:A6:15:GLU:OE1	53:A6:44:ARG:NH1	2.40	0.54
57:AA:741:G:O2'	57:AA:742:G:H5'	2.08	0.54
57:AA:1119:C:H2'	57:AA:1120:G:C8	2.43	0.54
57:AA:1337:G:H2'	57:AA:1338:G:H8	1.73	0.54
57:AA:1486:A:H61	57:AA:1504:C:H42	1.56	0.54
57:AA:1652:A:H3'	57:AA:1653:G:C8	2.43	0.54
57:AA:2528:U:H2'	57:AA:2530:A:O5'	2.08	0.54
58:AB:40:U:O2	58:AB:43:C:H5"	2.07	0.54
3:Bd:139:ARG:HG2	3:Bd:139:ARG:NH1	2.21	0.54
8:Bi:28:VAL:HG13	8:Bi:63:ILE:O	2.08	0.54
8:Bi:103:THR:CG2	8:Bi:104:ARG:N	2.59	0.54
8:Bi:113:LYS:HE2	22:Ba:1187:G:OP1	2.08	0.54
10:Bk:46:GLY:C	22:Ba:688:G:H5'	2.33	0.54
18:Bs:38:SER:O	18:Bs:70:LYS:HD3	2.08	0.54
21:By:56:ARG:H	22:Ba:530:G:HO2'	1.51	0.54
22:Ba:836:G:C6	22:Ba:851:G:C6	2.96	0.54
22:Ba:1030(D):A:H2'	22:Ba:1031:G:H5'	1.90	0.54
22:Ba:1194:U:H2'	22:Ba:1195:C:C6	2.43	0.54
22:Ba:1514:C:H2'	22:Ba:1515:C:H6	1.73	0.54
27:BD:71:ASP:HB2	27:BD:103:ARG:HH22	1.71	0.54
28:BE:34:VAL:HG13	28:BE:48:GLN:HE21	1.73	0.54
28:BE:131:ALA:HB2	57:BA:2579:C:O3'	2.08	0.54
29:BF:128:ALA:O	29:BF:142:TRP:NE1	2.36	0.54
29:BF:165:ARG:HH11	29:BF:165:ARG:HB2	1.73	0.54
30:BG:48:GLU:O	30:BG:49:ASP:HB2	2.08	0.54
31:BH:144:VAL:O	31:BH:148:ILE:HG12	2.07	0.54
35:BO:47:ILE:HG13	35:BO:48:PRO:HD2	1.90	0.54
36:BP:71:VAL:HG12	57:BA:389:G:H1	1.73	0.54
36:BP:97:PRO:HA	36:BP:100:LEU:HD23	1.89	0.54
36:BP:112:LEU:H	36:BP:128:HIS:HD2	1.54	0.54
37:BQ:14:ARG:HG2	37:BQ:14:ARG:HH11	1.73	0.54
37:BQ:109:VAL:CG1	37:BQ:113:GLN:HB3	2.37	0.54
41:BU:92:ARG:NH1	42:BV:11:GLN:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:21:ARG:NH1	42:BV:91:TYR:HE2	2.06	0.54
45:BY:13:VAL:HG13	45:BY:14:LEU:N	2.22	0.54
45:BY:20:TYR:N	45:BY:20:TYR:CD1	2.76	0.54
47:B0:63:VAL:HG21	47:B0:83:PRO:HG3	1.90	0.54
48:B1:45:ASN:C	48:B1:45:ASN:ND2	2.64	0.54
55:B8:62:LEU:N	55:B8:63:PRO:HD2	2.23	0.54
57:BA:2443:C:H2'	57:BA:2444:G:H8	1.73	0.54
58:BB:88:C:O2	58:BB:88:C:H2'	2.08	0.54
1:Ab:204:ASN:ND2	1:Ab:206:ASP:N	2.53	0.54
2:Ac:53:ALA:O	2:Ac:54:ARG:HB2	2.07	0.54
7:Ah:31:PHE:CD1	22:Aa:643:C:H5'	2.42	0.54
15:Ap:3:LYS:O	15:Ap:21:VAL:HA	2.07	0.54
15:Ap:20:VAL:CG2	15:Ap:32:TYR:HB2	2.38	0.54
21:Ay:40:GLU:C	21:Ay:42:ASN:N	2.66	0.54
22:Aa:179:A:H2'	22:Aa:180:U:C6	2.43	0.54
22:Aa:710:G:H2'	22:Aa:711:G:C8	2.43	0.54
29:AF:124:LEU:O	29:AF:193:VAL:HA	2.07	0.54
30:AG:141:PHE:HD1	30:AG:142:PRO:HD2	1.73	0.54
31:AH:19:VAL:CG2	31:AH:44:VAL:HA	2.33	0.54
31:AH:89:ILE:HG13	31:AH:129:THR:HA	1.89	0.54
32:AI:92:VAL:HG13	32:AI:97:ILE:CD1	2.38	0.54
34:AN:62:VAL:HG11	34:AN:67:LEU:CD2	2.38	0.54
36:AP:21:ARG:O	36:AP:23:PRO:HD3	2.07	0.54
36:AP:107:LYS:O	36:AP:109:GLY:N	2.41	0.54
38:AR:3:HIS:O	38:AR:4:LEU:HB3	2.07	0.54
38:AR:44:LEU:HD13	38:AR:44:LEU:O	2.07	0.54
45:AY:20:TYR:CD1	45:AY:20:TYR:N	2.76	0.54
52:A5:36:CYS:SG	52:A5:49:CYS:CB	2.96	0.54
57:AA:1049:C:H41	57:AA:1111:A:H2	1.55	0.54
57:AA:1429:G:H2'	57:AA:1430:C:C6	2.43	0.54
57:AA:2039:C:H2'	57:AA:2040:C:H6	1.73	0.54
57:AA:2842:G:O2'	57:AA:2843:G:H5'	2.08	0.54
1:Bb:60:ASP:O	1:Bb:64:ARG:HG2	2.09	0.54
2:Bc:25:GLY:C	2:Bc:27:LYS:H	2.16	0.54
3:Bd:110:PHE:N	3:Bd:110:PHE:CD1	2.75	0.54
8:Bi:95:LYS:NZ	8:Bi:96:LEU:HD13	2.22	0.54
10:Bk:84:VAL:CG2	10:Bk:110:ASP:HA	2.38	0.54
11:Bl:90:VAL:O	11:Bl:92:ASP:N	2.41	0.54
12:Bm:52:GLU:O	12:Bm:56:LEU:HB2	2.08	0.54
13:Bn:32:SER:H	22:Ba:976:G:P	2.31	0.54
15:Bp:22:THR:HA	15:Bp:33:ILE:CG1	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:472:A:H2'	22:Ba:473:G:O4'	2.08	0.54
22:Ba:799:G:H2'	22:Ba:800:G:H5'	1.90	0.54
22:Ba:805:C:H2'	22:Ba:806:C:H6	1.72	0.54
22:Ba:1053:G:H3'	22:Ba:1054:C:H5'	1.88	0.54
22:Ba:1163:C:H2'	22:Ba:1164:G:C8	2.42	0.54
22:Ba:1424:C:O2'	22:Ba:1425:U:H5'	2.08	0.54
22:Ba:1458:G:O2'	22:Ba:1459:C:H5'	2.08	0.54
27:BD:11:PRO:C	27:BD:13:ARG:N	2.65	0.54
32:BI:88:ILE:HG22	32:BI:89:TYR:N	2.22	0.54
34:BN:57:ALA:C	34:BN:58:ASP:O	2.51	0.54
34:BN:59:LYS:O	34:BN:60:ILE:C	2.51	0.54
36:BP:38:GLN:HG3	36:BP:39:LYS:N	2.17	0.54
37:BQ:59:ARG:HA	46:BZ:180:VAL:HG23	1.90	0.54
38:BR:44:LEU:HD13	38:BR:44:LEU:O	2.08	0.54
46:BZ:18:LEU:O	46:BZ:21:ALA:HB3	2.07	0.54
46:BZ:24:LEU:HD23	46:BZ:24:LEU:C	2.33	0.54
46:BZ:29:TYR:HE1	58:BB:105:A:O4'	1.91	0.54
47:B0:36:ILE:HD12	47:B0:38:VAL:N	2.23	0.54
53:B6:9:LEU:HD12	53:B6:28:ARG:CG	2.38	0.54
53:B6:9:LEU:HD12	53:B6:28:ARG:HG3	1.90	0.54
54:B7:16:HIS:HA	54:B7:21:ARG:NH1	2.22	0.54
57:BA:1119:C:H2'	57:BA:1120:G:C8	2.42	0.54
57:BA:1948:G:O2'	57:BA:1949:G:H5'	2.08	0.54
3:Ad:18:LYS:HE2	3:Ad:31:CYS:CB	2.37	0.53
3:Ad:177:ASP:OD1	3:Ad:179:GLU:HB2	2.07	0.53
4:Ae:80:ILE:HD11	4:Ae:138:ALA:HB1	1.90	0.53
7:Ah:20:TYR:HA	7:Ah:65:TYR:HE2	1.73	0.53
9:Aj:56:HIS:O	9:Aj:58:ASP:N	2.41	0.53
10:Ak:111:ASP:HA	17:Ar:84:LYS:HG3	1.89	0.53
12:Am:2:ALA:CB	12:Am:9:ILE:HG23	2.35	0.53
12:Am:108:ARG:N	12:Am:108:ARG:HD2	2.22	0.53
14:Ao:66:LEU:HD12	14:Ao:66:LEU:N	2.23	0.53
16:Aq:31:LEU:HD11	22:Aa:564:C:C6	2.43	0.53
22:Aa:506:G:H2'	22:Aa:507:C:H6	1.73	0.53
27:AD:24:ILE:HG22	27:AD:91:ARG:HD2	1.90	0.53
27:AD:31:LYS:HB3	27:AD:34:VAL:HG22	1.90	0.53
27:AD:35:LYS:HA	27:AD:64:ILE:HG22	1.90	0.53
27:AD:49:ILE:HD11	27:AD:52:ARG:HA	1.90	0.53
27:AD:106:ILE:O	27:AD:106:ILE:CG2	2.56	0.53
29:AF:9:ILE:HG12	29:AF:13:SER:O	2.07	0.53
30:AG:51:ARG:HE	30:AG:51:ARG:CA	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:173:LEU:HD22	30:AG:178:PHE:CZ	2.43	0.53
32:AI:94:ALA:O	32:AI:99:GLU:N	2.41	0.53
32:AI:123:LEU:HA	32:AI:142:VAL:HG11	1.90	0.53
46:AZ:167:PRO:O	46:AZ:168:GLU:CB	2.56	0.53
52:A5:50:GLY:O	52:A5:51:TYR:CB	2.56	0.53
53:A6:15:GLU:OE1	53:A6:41:PRO:HG3	2.08	0.53
53:A6:42:TRP:HA	53:A6:42:TRP:CE3	2.43	0.53
55:A8:56:GLU:C	55:A8:58:ILE:N	2.65	0.53
57:AA:128:C:H2'	57:AA:129:C:H6	1.73	0.53
57:AA:158:U:H3'	57:AA:158:U:O2	2.07	0.53
57:AA:1049:C:H2'	57:AA:1050:A:H8	1.71	0.53
57:AA:1446:C:H2'	57:AA:1447:G:C8	2.42	0.53
57:AA:1777:U:O2'	57:AA:1778:U:H5'	2.07	0.53
57:AA:1854:A:H2'	57:AA:1855:G:O4'	2.09	0.53
57:AA:1916:A:H5'	57:AA:1917:U:OP2	2.08	0.53
57:AA:2735:G:H2'	57:AA:2736:G:H8	1.74	0.53
1:Bb:224:GLN:HB2	1:Bb:229:VAL:HG22	1.90	0.53
3:Bd:8:VAL:C	3:Bd:10:ARG:H	2.15	0.53
5:Bf:14:LEU:HD22	5:Bf:18:GLN:NE2	2.23	0.53
12:Bm:55:ARG:O	12:Bm:58:GLU:HB2	2.08	0.53
12:Bm:57:ARG:NH1	51:B4:34:GLU:HA	2.23	0.53
12:Bm:86:CYS:HA	18:Bs:73:GLU:O	2.08	0.53
14:Bo:66:LEU:HD12	14:Bo:66:LEU:N	2.23	0.53
18:Bs:72:GLY:C	18:Bs:74:PHE:H	2.16	0.53
22:Ba:628:G:O2'	22:Ba:629:G:H5'	2.08	0.53
22:Ba:1172:C:H2'	22:Ba:1173:G:C8	2.39	0.53
22:Ba:1490:C:C2'	22:Ba:1491:G:H5"	2.36	0.53
22:Ba:1499:A:H1'	22:Ba:1520:G:H5'	1.89	0.53
26:BC:52:PRO:HG2	26:BC:53:ARG:HD3	1.90	0.53
27:BD:11:PRO:C	27:BD:13:ARG:H	2.15	0.53
28:BE:189:PRO:HA	57:BA:2680:C:H5'	1.89	0.53
37:BQ:12:GLN:HA	57:BA:910:A:H62	1.73	0.53
38:BR:10:LEU:HD22	38:BR:17:ARG:HD2	1.90	0.53
38:BR:26:LYS:HE2	38:BR:71:GLN:H	1.72	0.53
46:BZ:57:ILE:HD12	46:BZ:57:ILE:N	2.23	0.53
46:BZ:153:SER:C	46:BZ:155:LEU:HD23	2.33	0.53
49:B2:54:LYS:HB3	49:B2:54:LYS:HZ3	1.72	0.53
54:B7:12:ARG:HG3	57:BA:686:G:O6	2.09	0.53
57:BA:156:U:H2'	57:BA:156:U:O2	2.07	0.53
57:BA:528:A:C2	57:BA:2043:C:C5'	2.91	0.53
57:BA:1292:U:O2'	57:BA:1293:C:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2071:A:H2'	57:BA:2072:G:C8	2.43	0.53
57:BA:2626:C:O2'	57:BA:2627:G:H5'	2.08	0.53
1:Ab:97:TRP:CH2	1:Ab:173:ALA:HA	2.44	0.53
1:Ab:100:GLY:O	1:Ab:101:MET:C	2.50	0.53
2:Ac:129:ALA:HB3	2:Ac:132:ARG:HB3	1.91	0.53
3:Ad:27:TYR:OH	5:Bf:15:ASP:OD2	2.26	0.53
7:Ah:65:TYR:N	7:Ah:65:TYR:CD1	2.76	0.53
11:Al:70:ILE:HD13	11:Al:77:LEU:HD12	1.89	0.53
22:Aa:93:G:H2'	22:Aa:96:U:H5'	1.90	0.53
22:Aa:358:U:H2'	22:Aa:359:U:C6	2.42	0.53
22:Aa:421:U:O2	22:Aa:421:U:H2'	2.08	0.53
22:Aa:437:U:H2'	22:Aa:438:G:O4'	2.08	0.53
22:Aa:1201:A:H1'	22:Aa:1202:G:OP2	2.08	0.53
27:AD:161:THR:HG21	57:AA:1819:A:H5"	1.91	0.53
30:AG:7:LEU:HG	30:AG:104:GLU:OE1	2.08	0.53
30:AG:36:LYS:HB2	30:AG:95:ARG:HG2	1.90	0.53
32:AI:76:THR:OG1	32:AI:77:LEU:N	2.41	0.53
35:AO:102:VAL:CG2	35:AO:121:VAL:HG22	2.39	0.53
37:AQ:16:ARG:HG2	37:AQ:17:LEU:H	1.73	0.53
38:AR:104:ARG:HD2	38:AR:109:ALA:HB3	1.88	0.53
39:AS:15:ARG:HH11	39:AS:15:ARG:CB	2.20	0.53
40:AT:22:PHE:HD2	40:AT:22:PHE:N	2.05	0.53
42:AV:39:LEU:CB	42:AV:47:VAL:HG11	2.38	0.53
47:A0:63:VAL:HG21	47:A0:83:PRO:HG3	1.90	0.53
48:A1:53:VAL:HG11	48:A1:90:ILE:HG21	1.91	0.53
53:A6:5:VAL:CG2	53:A6:6:ARG:H	2.16	0.53
57:AA:142:A:H5"	57:AA:142(A):C:H5	1.73	0.53
57:AA:271(M):G:C2'	57:AA:271(N):U:H5"	2.31	0.53
57:AA:882:G:H2'	57:AA:883:G:H8	1.73	0.53
57:AA:1333:C:O5'	57:AA:1333:C:H6	1.91	0.53
57:AA:1972:A:H2'	57:AA:1973:G:H8	1.71	0.53
57:AA:1999:C:O2'	57:AA:2000:G:H5'	2.09	0.53
57:AA:2073:C:O2'	57:AA:2074:U:H5'	2.08	0.53
57:AA:2870:C:H2'	57:AA:2871:C:O4'	2.07	0.53
2:Bc:181:ASN:ND2	2:Bc:204:LEU:HB2	2.23	0.53
6:Bg:85:TYR:HD1	6:Bg:154:TYR:HE1	1.56	0.53
14:Bo:82:ILE:CG1	14:Bo:87:ILE:HG13	2.23	0.53
16:Bq:59:ILE:HG22	16:Bq:71:PHE:HD1	1.73	0.53
17:Br:58:LEU:HB3	17:Br:62:GLU:CB	2.38	0.53
21:By:84:SER:HB3	21:By:87:TYR:HD2	1.74	0.53
22:Ba:90:U:HO2'	22:Ba:91:C:H5	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:93:G:H2'	22:Ba:96:U:H5'	1.90	0.53
22:Ba:223:U:H2'	22:Ba:224:C:C6	2.43	0.53
22:Ba:243:A:H4'	22:Ba:244:U:O5'	2.08	0.53
22:Ba:554:C:H2'	22:Ba:555:C:C6	2.44	0.53
25:Bw:41:C:H2'	25:Bw:42:G:H8	1.72	0.53
25:Bw:52:G:O2'	25:Bw:53:G:H5'	2.09	0.53
25:Bw:74:C:H2'	25:Bw:75:C:H6	1.73	0.53
26:BC:47:LYS:NZ	26:BC:169:THR:O	2.41	0.53
26:BC:178:LYS:HB2	26:BC:181:PHE:CE1	2.43	0.53
27:BD:31:LYS:C	27:BD:33:LEU:H	2.16	0.53
27:BD:49:ILE:HG22	57:BA:779:U:P	2.49	0.53
27:BD:68:LYS:HB2	27:BD:70:TRP:CZ2	2.44	0.53
27:BD:228:PRO:HD3	27:BD:235:GLY:HA2	1.90	0.53
28:BE:57:LYS:C	28:BE:59:VAL:H	2.16	0.53
29:BF:28:ILE:HD13	29:BF:28:ILE:N	2.22	0.53
29:BF:164:ARG:HG3	29:BF:175:THR:OG1	2.07	0.53
34:BN:3:THR:C	34:BN:4:TYR:CD1	2.86	0.53
36:BP:102:ARG:CB	36:BP:102:ARG:NH2	2.72	0.53
36:BP:102:ARG:NH2	36:BP:102:ARG:HB3	2.22	0.53
38:BR:4:LEU:HD23	57:BA:2822:G:O6	2.07	0.53
38:BR:4:LEU:O	38:BR:5:LYS:HD3	2.09	0.53
38:BR:104:ARG:HD2	38:BR:109:ALA:HB3	1.91	0.53
40:BT:70:VAL:HG12	40:BT:71:GLY:O	2.08	0.53
40:BT:106:SER:O	40:BT:107:ASP:CB	2.55	0.53
41:BU:106:PHE:O	41:BU:110:VAL:HG23	2.08	0.53
42:BV:39:LEU:C	42:BV:40:LEU:HD23	2.33	0.53
45:BY:54:LYS:C	45:BY:56:PRO:HD2	2.34	0.53
46:BZ:152:ALA:CA	46:BZ:167:PRO:HB2	2.36	0.53
52:B5:41:PRO:O	52:B5:44:THR:OG1	2.20	0.53
57:BA:218:A:C2	57:BA:235:U:H4'	2.44	0.53
57:BA:408:G:O2'	57:BA:409:C:H5'	2.09	0.53
57:BA:1472:A:C2'	57:BA:1473:G:H5'	2.38	0.53
57:BA:1652:A:C2'	57:BA:1653:G:H5'	2.37	0.53
57:BA:2555:U:H2'	57:BA:2556:C:H5'	1.91	0.53
4:Ae:75:THR:HG23	4:Ae:76:ILE:N	2.23	0.53
7:Ah:12:ARG:NH1	7:Ah:27:PRO:CD	2.67	0.53
8:Ai:27:THR:HG23	8:Ai:31:GLN:C	2.34	0.53
9:Aj:30:SER:HB3	9:Aj:81:THR:HA	1.90	0.53
10:Ak:61:ALA:HB3	10:Ak:90:GLY:HA3	1.90	0.53
18:As:36:ARG:HD3	22:Aa:1221:G:P	2.48	0.53
18:As:36:ARG:HG3	22:Aa:1320:C:N4	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:84:U:C2'	22:Aa:88:A:H5'	2.38	0.53
22:Aa:763:G:O2'	22:Aa:764:C:H5'	2.07	0.53
22:Aa:1194:U:H2'	22:Aa:1195:C:C6	2.43	0.53
24:Av:53:G:O2'	24:Av:54:5MU:H5"	2.08	0.53
29:AF:21:ALA:C	29:AF:23:ASP:N	2.66	0.53
30:AG:125:PHE:CD1	30:AG:125:PHE:N	2.76	0.53
31:AH:68:THR:O	31:AH:70:THR:N	2.41	0.53
36:AP:33:ARG:HD3	57:AA:587:C:C4	2.44	0.53
40:AT:62:THR:HG22	40:AT:75:ILE:HG23	1.89	0.53
43:AW:34:ASN:HD21	52:A5:39:MET:HB2	1.72	0.53
43:AW:82:LEU:CB	43:AW:98:LYS:HB2	2.38	0.53
45:AY:17:SER:OG	45:AY:71:LYS:HD2	2.07	0.53
48:A1:44:PRO:O	48:A1:46:LEU:HD13	2.09	0.53
55:A8:63:PRO:O	55:A8:64:TYR:O	2.26	0.53
57:AA:1215:G:O2'	57:AA:1216:G:H5'	2.08	0.53
58:AB:81:G:H2'	58:AB:82:G:H5'	1.89	0.53
58:AB:106:G:O2'	58:AB:107:G:H5'	2.09	0.53
1:Bb:112:VAL:O	1:Bb:116:GLU:HG2	2.08	0.53
2:Bc:131:ARG:HH12	4:Be:50:GLU:HG2	1.72	0.53
4:Be:26:PHE:N	4:Be:26:PHE:CD1	2.76	0.53
4:Be:75:THR:HG23	4:Be:76:ILE:N	2.22	0.53
6:Bg:85:TYR:CD1	6:Bg:154:TYR:HE1	2.25	0.53
8:Bi:43:ALA:O	8:Bi:45:ALA:N	2.39	0.53
8:Bi:102:LEU:HD23	8:Bi:102:LEU:O	2.09	0.53
9:Bj:30:SER:HB3	9:Bj:81:THR:HA	1.90	0.53
9:Bj:38:ILE:CG1	9:Bj:71:LEU:HB3	2.38	0.53
9:Bj:40:LEU:CB	9:Bj:69:ASN:HB2	2.37	0.53
12:Bm:69:GLU:O	12:Bm:69:GLU:CG	2.51	0.53
13:Bn:37:PHE:CE1	13:Bn:53:LEU:HD22	2.39	0.53
21:By:65:GLN:HE22	21:By:94:ILE:HG13	1.72	0.53
22:Ba:423:G:C2'	22:Ba:424:G:H5'	2.38	0.53
22:Ba:429:U:H1'	22:Ba:430:A:H5"	1.90	0.53
22:Ba:735:C:H2'	22:Ba:736:C:C6	2.37	0.53
22:Ba:880:C:O2'	22:Ba:881:G:H5'	2.08	0.53
22:Ba:960:U:O2	22:Ba:960:U:C2'	2.56	0.53
22:Ba:1097:C:O2'	22:Ba:1098:C:H5'	2.07	0.53
26:BC:31:LYS:HZ2	26:BC:183:PRO:HG3	1.73	0.53
27:BD:71:ASP:HB2	27:BD:103:ARG:NH2	2.23	0.53
29:BF:53:THR:N	29:BF:56:GLU:HG3	2.23	0.53
29:BF:163:VAL:O	29:BF:166:ALA:HB3	2.08	0.53
31:BH:24:VAL:HG12	31:BH:35:VAL:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:18:ALA:O	34:BN:21:LYS:N	2.35	0.53
35:BO:77:ILE:HD13	40:BT:74:ARG:HD3	1.91	0.53
36:BP:115:LEU:HA	36:BP:134:ALA:CB	2.38	0.53
38:BR:24:GLN:HE22	38:BR:36:THR:HG21	1.74	0.53
39:BS:14:VAL:HG12	39:BS:14:VAL:O	2.08	0.53
57:BA:947:G:H2'	57:BA:948:G:C8	2.43	0.53
57:BA:1652:A:H3'	57:BA:1653:G:C8	2.44	0.53
57:BA:2720:U:O2	57:BA:2720:U:H2'	2.07	0.53
2:Ac:84:ILE:O	2:Ac:88:ARG:HG3	2.08	0.53
3:Ad:12:CYS:HA	3:Ad:19:LEU:CD1	2.39	0.53
4:Ae:26:PHE:CD1	4:Ae:26:PHE:N	2.76	0.53
16:Aq:67:LYS:O	22:Aa:254:G:OP1	2.26	0.53
18:As:78:ARG:NH2	22:Aa:1223:C:OP2	2.41	0.53
22:Aa:382:A:H2'	22:Aa:383:A:C8	2.43	0.53
22:Aa:1275:A:H2'	22:Aa:1276:G:C8	2.42	0.53
36:AP:113:LYS:HA	36:AP:129:ALA:O	2.08	0.53
37:AQ:78:PRO:HB2	37:AQ:81:VAL:HG11	1.90	0.53
42:AV:62:LEU:N	42:AV:62:LEU:HD22	2.22	0.53
45:AY:7:VAL:CB	45:AY:8:LYS:NZ	2.72	0.53
45:AY:45:VAL:HG12	45:AY:60:PHE:CE2	2.42	0.53
45:AY:53:PRO:O	45:AY:54:LYS:HG3	2.08	0.53
57:AA:276:A:H5'	57:AA:277:C:H6	1.73	0.53
57:AA:409:C:H2'	57:AA:410:G:C8	2.43	0.53
57:AA:860:U:C5	57:AA:917:A:N7	2.75	0.53
57:AA:921:G:H4'	57:AA:2269:A:C5	2.43	0.53
57:AA:1838:C:N4	57:AA:1898:U:H2'	2.24	0.53
57:AA:2600:A:H2'	57:AA:2601:C:C6	2.43	0.53
57:AA:2853:C:H2'	57:AA:2854:G:C8	2.43	0.53
1:Bb:53:ARG:NH1	1:Bb:199:TYR:CD2	2.76	0.53
1:Bb:53:ARG:O	1:Bb:56:ARG:HB2	2.09	0.53
3:Bd:177:ASP:OD1	3:Bd:179:GLU:HB2	2.08	0.53
8:Bi:9:ARG:CG	8:Bi:14:VAL:HG13	2.38	0.53
8:Bi:19:LEU:HD22	8:Bi:59:PHE:CB	2.38	0.53
9:Bj:36:GLY:HA3	22:Ba:1123:A:H5"	1.91	0.53
11:Bl:32:PHE:HD1	11:Bl:86:ARG:HA	1.74	0.53
12:Bm:81:LEU:HD22	12:Bm:88:ARG:HE	1.73	0.53
16:Bq:48:GLU:O	16:Bq:49:GLU:C	2.51	0.53
19:Bt:40:ALA:HB2	19:Bt:55:ILE:HG22	1.90	0.53
22:Ba:244:U:C6	22:Ba:894:G:N2	2.76	0.53
22:Ba:819:A:H4'	22:Ba:820:U:OP2	2.08	0.53
22:Ba:908:A:H2'	22:Ba:909:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1498:U:H4'	22:Ba:1519:A:H2	1.72	0.53
24:Bv:66:C:H2'	24:Bv:67:C:H6	1.73	0.53
25:Bw:67:C:O2'	25:Bw:68:C:H5'	2.08	0.53
27:BD:76:PRO:HG2	27:BD:98:VAL:CG2	2.39	0.53
28:BE:14:ILE:HG13	28:BE:15:PHE:N	2.23	0.53
28:BE:61:ARG:CG	57:BA:2787:C:H1'	2.38	0.53
29:BF:22:ALA:C	29:BF:24:LEU:H	2.17	0.53
30:BG:131:TYR:HE2	30:BG:133:LEU:HB3	1.73	0.53
32:BI:110:ASP:OD2	32:BI:113:ARG:HB2	2.08	0.53
34:BN:90:MET:HE2	34:BN:90:MET:HA	1.91	0.53
34:BN:120:LEU:HD23	34:BN:121:LYS:N	2.23	0.53
36:BP:40:SER:C	36:BP:41:ARG:HE	2.17	0.53
36:BP:86:LYS:HB2	36:BP:117:GLU:O	2.09	0.53
36:BP:113:LYS:HA	36:BP:129:ALA:O	2.08	0.53
37:BQ:76:LYS:HB3	37:BQ:91:GLU:HG3	1.90	0.53
37:BQ:84:GLY:O	37:BQ:85:LYS:HB2	2.09	0.53
39:BS:15:ARG:HH11	39:BS:15:ARG:CB	2.22	0.53
45:BY:95:LYS:CG	45:BY:101:LYS:H	2.22	0.53
47:B0:26:TYR:HE2	57:BA:857:C:H1'	1.73	0.53
52:B5:6:VAL:HG13	52:B5:7:PRO:HD2	1.90	0.53
53:B6:5:VAL:CG2	53:B6:6:ARG:H	2.15	0.53
54:B7:34:ARG:NH1	54:B7:39:ARG:CG	2.70	0.53
57:BA:154(A):C:H3'	57:BA:155:U:C5'	2.39	0.53
57:BA:635:C:H2'	57:BA:636:G:C8	2.43	0.53
57:BA:1662:C:O2'	57:BA:1663:C:H5'	2.08	0.53
57:BA:2098:U:H2'	57:BA:2099:U:O4'	2.08	0.53
57:BA:2469:A:C5	57:BA:2470:G:H1'	2.43	0.53
1:Ab:91:PRO:CG	1:Ab:155:LEU:HD23	2.39	0.53
6:Ag:102:ARG:HG2	6:Ag:106:GLN:NE2	2.23	0.53
8:Ai:18:PHE:CD1	8:Ai:62:TYR:HD2	2.25	0.53
9:Aj:3:LYS:NZ	9:Aj:77:PRO:HD2	2.24	0.53
9:Aj:81:THR:HG22	9:Aj:85:LEU:HD12	1.91	0.53
10:Ak:20:TYR:C	10:Ak:21:ILE:HD12	2.33	0.53
10:Ak:26:ASN:ND2	22:Aa:692:U:C5	2.77	0.53
10:Ak:37:GLY:O	10:Ak:39:PRO:HD3	2.09	0.53
10:Ak:46:GLY:C	22:Aa:688:G:H5'	2.33	0.53
11:Al:104:VAL:O	11:Al:107:ALA:HB3	2.09	0.53
22:Aa:167:G:O2'	22:Aa:168:G:H5'	2.08	0.53
22:Aa:586:C:O2'	22:Aa:587:G:H5'	2.09	0.53
27:AD:71:ASP:HB2	27:AD:103:ARG:HH22	1.69	0.53
28:AE:5:LEU:HD12	28:AE:51:PHE:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:62:PRO:C	28:AE:64:LYS:N	2.66	0.53
30:AG:73:ALA:H	30:AG:87:PRO:CG	2.21	0.53
31:AH:60:ARG:O	31:AH:64:LEU:HG	2.08	0.53
36:AP:115:LEU:HA	36:AP:134:ALA:CB	2.39	0.53
36:AP:146:VAL:O	36:AP:148:LEU:HG	2.08	0.53
46:AZ:152:ALA:HA	46:AZ:168:GLU:H	1.74	0.53
50:A3:8:LEU:HD13	50:A3:31:LEU:HA	1.89	0.53
57:AA:108:U:H2'	57:AA:109:G:H8	1.72	0.53
57:AA:2011:U:C2'	57:AA:2012:G:H5'	2.38	0.53
57:AA:2631:G:N3	57:AA:2810:A:H2	2.07	0.53
58:AB:1:U:O2	58:AB:1:U:H2'	2.09	0.53
5:Bf:75:LEU:HD11	5:Bf:79:LEU:HD21	1.91	0.53
6:Bg:31:MET:HE3	6:Bg:34:GLY:HA2	1.91	0.53
6:Bg:36:LYS:HB3	22:Ba:1373:G:H5"	1.90	0.53
7:Bh:122:ARG:HH11	7:Bh:122:ARG:CB	2.21	0.53
8:Bi:5:TYR:HA	8:Bi:17:VAL:O	2.08	0.53
8:Bi:83:ARG:O	8:Bi:86:VAL:HG12	2.09	0.53
10:Bk:59:TYR:CZ	10:Bk:63:LEU:HD21	2.44	0.53
11:Bl:45:PRO:HB2	11:Bl:49:ASN:O	2.09	0.53
11:Bl:47:LYS:HD2	11:Bl:47:LYS:C	2.34	0.53
21:By:43:LYS:CA	21:By:51:TYR:HA	2.36	0.53
21:By:44:LEU:HG	21:By:50:CYS:HB2	1.90	0.53
22:Ba:1038:C:O5'	22:Ba:1038:C:H6	1.91	0.53
22:Ba:1188:A:H2'	22:Ba:1189:C:O4'	2.09	0.53
26:BC:6:LYS:C	26:BC:8:TYR:N	2.63	0.53
30:BG:161:THR:CG2	30:BG:162:THR:N	2.71	0.53
37:BQ:32:TYR:CE1	37:BQ:111:GLU:HA	2.38	0.53
38:BR:38:VAL:O	38:BR:42:LYS:HG3	2.08	0.53
40:BT:128:GLU:O	40:BT:129:ARG:C	2.50	0.53
41:BU:7:GLY:O	57:BA:29:U:H4'	2.09	0.53
42:BV:15:GLU:O	42:BV:16:PRO:C	2.51	0.53
43:BW:18:ARG:NH1	43:BW:76:VAL:O	2.41	0.53
44:BX:3:THR:O	44:BX:4:ALA:HB3	2.08	0.53
45:BY:31:LEU:HB2	45:BY:32:PRO:CA	2.38	0.53
48:B1:59:THR:O	48:B1:91:LYS:NZ	2.41	0.53
57:BA:644:A:C2	57:BA:2369:A:H1'	2.43	0.53
57:BA:780:G:H21	57:BA:783:A:H62	1.56	0.53
57:BA:921:G:H4'	57:BA:2269:A:C5	2.43	0.53
57:BA:1362:C:O2'	57:BA:1363:C:H5'	2.08	0.53
57:BA:1481:U:H5'	57:BA:1482:G:OP2	2.09	0.53
58:BB:40:U:O2	58:BB:43:C:H5"	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:207:ALA:C	1:Ab:209:ARG:N	2.61	0.53
3:Ad:63:LYS:HD3	3:Ad:197:PRO:O	2.08	0.53
6:Ag:31:MET:HE3	6:Ag:34:GLY:HA2	1.89	0.53
9:Aj:70:ARG:HH22	22:Aa:1152:A:H5'	1.74	0.53
12:Am:30:ALA:O	12:Am:32:GLU:N	2.36	0.53
14:Ao:33:THR:HG21	14:Ao:85:LEU:CD2	2.39	0.53
16:Aq:59:ILE:HG22	16:Aq:71:PHE:HD1	1.73	0.53
16:Aq:82:MET:O	16:Aq:86:GLU:HG2	2.09	0.53
17:Ar:57:GLY:O	17:Ar:58:LEU:C	2.52	0.53
18:As:49:ILE:O	18:As:60:VAL:HG12	2.08	0.53
22:Aa:1073:U:H3	22:Aa:1102:A:H61	1.55	0.53
22:Aa:1188:A:H2'	22:Aa:1189:C:O4'	2.09	0.53
26:AC:53:ARG:H	26:AC:53:ARG:CD	2.18	0.53
28:AE:12:THR:O	28:AE:23:VAL:HG22	2.09	0.53
29:AF:135:LYS:O	29:AF:136:THR:C	2.51	0.53
32:AI:56:LYS:HA	32:AI:59:ALA:HB3	1.90	0.53
43:AW:18:ARG:NH1	43:AW:76:VAL:O	2.42	0.53
46:AZ:67:LEU:CD2	46:AZ:90:VAL:HG11	2.31	0.53
47:A0:27:GLU:OE2	47:A0:69:PHE:HB2	2.09	0.53
51:A4:50:VAL:C	51:A4:52:THR:H	2.16	0.53
55:A8:62:LEU:N	55:A8:63:PRO:HD2	2.24	0.53
57:AA:155:U:C2'	57:AA:156:U:H5"	2.34	0.53
57:AA:262:A:H2'	57:AA:263:C:O4'	2.09	0.53
57:AA:519:U:H2'	57:AA:520:G:C8	2.43	0.53
57:AA:679:C:H2'	57:AA:680:G:C8	2.44	0.53
57:AA:1509(A):A:H2'	57:AA:1509(B):A:H8	1.74	0.53
57:AA:1518:U:H2'	57:AA:1519:G:O4'	2.08	0.53
58:AB:81:G:N3	58:AB:81:G:H5'	2.24	0.53
7:Bh:31:PHE:O	7:Bh:35:ILE:HG12	2.09	0.53
11:Bl:58:VAL:O	11:Bl:65:GLU:HA	2.09	0.53
16:Bq:10:VAL:HG13	16:Bq:19:VAL:HB	1.91	0.53
16:Bq:82:MET:O	16:Bq:86:GLU:HG2	2.08	0.53
29:BF:62:ARG:HG2	29:BF:63:LYS:N	2.23	0.53
29:BF:135:LYS:O	29:BF:136:THR:C	2.51	0.53
30:BG:71:THR:N	30:BG:89:GLY:O	2.34	0.53
32:BI:73:GLU:HB2	32:BI:137:PRO:O	2.07	0.53
32:BI:123:LEU:HA	32:BI:142:VAL:HG11	1.91	0.53
36:BP:29:LYS:N	36:BP:29:LYS:HD2	2.22	0.53
38:BR:29:LEU:HD12	38:BR:116:LEU:HD11	1.90	0.53
41:BU:8:VAL:O	41:BU:9:VAL:C	2.52	0.53
41:BU:79:PHE:CE2	41:BU:83:LEU:HD21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:82:ARG:HH11	42:BV:82:ARG:HG2	1.73	0.53
45:BY:13:VAL:HG22	45:BY:14:LEU:N	2.20	0.53
53:B6:37:ARG:NH1	53:B6:39:TYR:HE1	2.06	0.53
57:BA:1523:U:H2'	57:BA:1524:G:C8	2.43	0.53
57:BA:1799:G:H5'	57:BA:1819:A:N6	2.23	0.53
57:BA:2870:C:O2'	57:BA:2871:C:H5'	2.09	0.53
1:Ab:16:HIS:HD2	1:Ab:209:ARG:C	2.16	0.53
2:Ac:64:VAL:HG12	2:Ac:66:VAL:HG23	1.89	0.53
2:Ac:167:TRP:O	2:Ac:168:ALA:HB3	2.09	0.53
3:Ad:8:VAL:C	3:Ad:10:ARG:H	2.16	0.53
5:Af:24:GLU:CG	5:Af:28:ARG:HH12	2.21	0.53
8:Ai:9:ARG:CG	8:Ai:14:VAL:HG13	2.39	0.53
9:Aj:61:GLU:CG	13:An:58:LYS:HE2	2.37	0.53
10:Ak:30:VAL:HG21	10:Ak:65:ALA:HA	1.89	0.53
10:Ak:67:ASP:O	10:Ak:71:LYS:HG3	2.09	0.53
17:Ar:58:LEU:HB3	17:Ar:62:GLU:HB3	1.91	0.53
22:Aa:82:U:H2'	22:Aa:83:U:C6	2.44	0.53
22:Aa:424:G:H2'	22:Aa:425:G:H8	1.73	0.53
22:Aa:533:A:H1'	22:Aa:535:A:OP2	2.09	0.53
22:Aa:902:G:O2'	22:Aa:903:G:H5'	2.09	0.53
22:Aa:1030:C:H2'	22:Aa:1030(A):G:H5'	1.91	0.53
22:Aa:1109:C:O2'	22:Aa:1110:A:H5'	2.09	0.53
26:AC:30:VAL:HG11	26:AC:42:VAL:CG2	2.37	0.53
27:AD:68:LYS:HB2	27:AD:70:TRP:CZ2	2.43	0.53
27:AD:226:MET:HB3	27:AD:230:ASP:HB2	1.90	0.53
28:AE:189:PRO:HA	57:AA:2680:C:H5'	1.91	0.53
30:AG:2:PRO:HG3	51:A4:25:TYR:CD2	2.44	0.53
30:AG:158:ALA:O	30:AG:159:VAL:CB	2.55	0.53
34:AN:59:LYS:O	34:AN:60:ILE:C	2.52	0.53
39:AS:58:LEU:O	39:AS:59:LYS:O	2.26	0.53
41:AU:31:SER:HB3	41:AU:34:LYS:HB2	1.90	0.53
42:AV:51:VAL:CG1	42:AV:52:VAL:H	2.14	0.53
46:AZ:150:LEU:HD23	46:AZ:150:LEU:O	2.08	0.53
57:AA:57:C:O2'	57:AA:58:G:H5'	2.08	0.53
57:AA:498:G:O2'	57:AA:499:U:H5'	2.08	0.53
57:AA:635:C:O2'	57:AA:639:U:OP1	2.26	0.53
57:AA:654(M):C:H2'	57:AA:654(N):G:N7	2.23	0.53
57:AA:2033:A:H4'	57:AA:2034:U:OP1	2.09	0.53
1:Bb:22:LYS:H	1:Bb:40:HIS:HE1	1.57	0.53
2:Bc:77:ILE:HG23	2:Bc:84:ILE:HG22	1.91	0.53
3:Bd:163:GLU:HG3	3:Bd:164:ALA:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:5:ARG:HA	9:Bj:73:ASP:OD1	2.08	0.53
10:Bk:120:ARG:NH2	22:Ba:1525:G:OP1	2.40	0.53
11:Bl:84:LEU:C	11:Bl:84:LEU:HD23	2.34	0.53
11:Bl:110:VAL:HG23	11:Bl:120:TYR:HB3	1.91	0.53
21:By:61:ARG:CZ	21:By:81:ARG:HG2	2.38	0.53
22:Ba:424:G:O2'	22:Ba:425:G:H5'	2.08	0.53
22:Ba:1030:C:H2'	22:Ba:1030(A):G:H5'	1.91	0.53
22:Ba:1216:G:O2'	22:Ba:1217:C:H5'	2.09	0.53
27:BD:92:ILE:HA	27:BD:107:ALA:H	1.73	0.53
27:BD:101:GLU:HB2	57:BA:1491:G:O2'	2.09	0.53
28:BE:34:VAL:HG22	28:BE:34:VAL:O	2.07	0.53
28:BE:68:ALA:C	28:BE:70:ALA:H	2.14	0.53
30:BG:60:LEU:O	30:BG:64:THR:HG22	2.09	0.53
32:BI:92:VAL:HG13	32:BI:97:ILE:CD1	2.38	0.53
40:BT:62:THR:HA	40:BT:74:ARG:O	2.08	0.53
43:BW:86:LEU:HD12	43:BW:87:PRO:HD2	1.91	0.53
46:BZ:168:GLU:C	46:BZ:170:THR:H	2.15	0.53
53:B6:41:PRO:C	53:B6:43:CYS:N	2.65	0.53
54:B7:12:ARG:NH2	54:B7:44:PRO:HB3	2.24	0.53
57:BA:635:C:H2'	57:BA:636:G:H8	1.74	0.53
57:BA:637:A:H4'	57:BA:638:G:O5'	2.09	0.53
57:BA:1846:G:H5'	57:BA:1846:G:C8	2.40	0.53
57:BA:2600:A:H2'	57:BA:2601:C:C6	2.44	0.53
2:Ac:195:VAL:C	2:Ac:196:LEU:HD22	2.34	0.53
3:Ad:40:PRO:HA	22:Aa:427:U:OP1	2.09	0.53
8:Ai:19:LEU:CD2	8:Ai:61:ALA:HB2	2.39	0.53
18:As:34:TRP:O	22:Aa:1220:G:H5'	2.09	0.53
19:At:26:ASN:N	19:At:26:ASN:ND2	2.54	0.53
19:At:46:GLU:HG2	19:At:46:GLU:O	2.08	0.53
22:Aa:472:A:H2'	22:Aa:473:G:O4'	2.09	0.53
22:Aa:522:C:N4	22:Aa:528:C:H42	2.07	0.53
22:Aa:799:G:H2'	22:Aa:800:G:H5'	1.91	0.53
22:Aa:956:U:O2'	22:Aa:957:U:H5'	2.08	0.53
25:Aw:62:C:H4'	26:AC:53:ARG:CG	2.37	0.53
27:AD:166:GLN:CA	27:AD:166:GLN:NE2	2.72	0.53
29:AF:53:THR:C	29:AF:55:GLY:H	2.17	0.53
29:AF:132:VAL:CG2	29:AF:133:ASN:H	2.22	0.53
34:AN:15:LEU:O	34:AN:136:GLU:HA	2.08	0.53
34:AN:90:MET:HE2	34:AN:90:MET:HA	1.91	0.53
35:AO:13:ASN:ND2	35:AO:97:ARG:HB2	2.23	0.53
37:AQ:34:LEU:HD11	37:AQ:129:THR:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:AR:58:GLY:HA2	38:AR:80:PHE:CE1	2.44	0.53
43:AW:41:LYS:HE3	52:A5:25:LEU:HD11	1.90	0.53
45:AY:14:LEU:HD11	45:AY:22:GLY:HA2	1.91	0.53
49:A2:47:ASN:O	49:A2:48:HIS:C	2.52	0.53
57:AA:404:C:C4'	57:AA:405:U:H5'	2.31	0.53
57:AA:448:U:O4	57:AA:583:G:H1'	2.09	0.53
57:AA:2208:A:H1'	57:AA:2219:G:C4	2.44	0.53
57:AA:2472:G:H5'	57:AA:2473:U:H5"	1.89	0.53
1:Bb:91:PRO:CG	1:Bb:155:LEU:HD23	2.39	0.53
1:Bb:233:SER:CB	1:Bb:234:PRO:HD2	2.30	0.53
2:Bc:77:ILE:C	2:Bc:83:ARG:HB3	2.33	0.53
3:Bd:36:ARG:HB3	3:Bd:38:TYR:CE1	2.43	0.53
4:Be:18:ARG:NH1	4:Be:25:ARG:HB3	2.23	0.53
11:Bl:70:ILE:HD13	11:Bl:77:LEU:HD12	1.91	0.53
12:Bm:9:ILE:HD12	12:Bm:9:ILE:N	2.23	0.53
19:Bt:81:LYS:C	19:Bt:83:ARG:N	2.66	0.53
22:Ba:41:G:H2'	22:Ba:42:G:C8	2.43	0.53
22:Ba:536:C:O5'	22:Ba:536:C:H6	1.92	0.53
22:Ba:648:A:H2'	22:Ba:649:G:H8	1.73	0.53
22:Ba:1201:A:H1'	22:Ba:1202:G:OP2	2.09	0.53
22:Ba:1442(A):G:H2'	40:BT:118:ARG:HD3	1.90	0.53
24:Bv:17(A):U:H4'	24:Bv:18:G:OP1	2.09	0.53
26:BC:53:ARG:H	26:BC:53:ARG:CD	2.18	0.53
27:BD:45:ASN:OD1	27:BD:46:GLN:N	2.42	0.53
27:BD:244:ARG:HG2	27:BD:245:PRO:HB3	1.90	0.53
27:BD:262:ARG:HD3	57:BA:2085:C:O3'	2.09	0.53
28:BE:185:LYS:O	28:BE:186:GLY:O	2.27	0.53
30:BG:28:VAL:O	30:BG:28:VAL:HG12	2.07	0.53
31:BH:99:VAL:O	31:BH:102:ALA:HB3	2.08	0.53
31:BH:105:LEU:H	31:BH:105:LEU:CD2	2.19	0.53
32:BI:29:TYR:CE1	32:BI:33:ARG:NE	2.73	0.53
36:BP:35:HIS:O	36:BP:36:LYS:HB2	2.09	0.53
36:BP:83:VAL:HG11	36:BP:112:LEU:CD2	2.39	0.53
38:BR:75:LEU:HD13	38:BR:75:LEU:O	2.09	0.53
38:BR:99:LYS:CD	38:BR:99:LYS:N	2.71	0.53
40:BT:27:THR:O	40:BT:28:VAL:CB	2.56	0.53
46:BZ:151:HIS:CB	46:BZ:170:THR:HA	2.39	0.53
51:B4:48:ARG:HG3	51:B4:49:PHE:HD1	1.74	0.53
55:B8:51:ALA:HA	55:B8:54:GLU:OE2	2.08	0.53
55:B8:53:PRO:C	55:B8:55:ALA:N	2.65	0.53
55:B8:56:GLU:C	55:B8:58:ILE:N	2.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:276:A:H5'	57:BA:277:C:H6	1.74	0.53
57:BA:286:C:H2'	57:BA:287:C:C6	2.44	0.53
57:BA:529:A:H62	57:BA:2041:U:H3	1.55	0.53
57:BA:1750:G:O2'	57:BA:1751:C:H5'	2.08	0.53
57:BA:2099:U:H2'	57:BA:2099:U:O2	2.09	0.53
57:BA:2736:G:O2'	57:BA:2737:G:H5'	2.08	0.53
1:Ab:22:LYS:H	1:Ab:40:HIS:HE1	1.57	0.53
10:Ak:84:VAL:CG2	10:Ak:110:ASP:HA	2.38	0.53
11:Al:62:SER:O	11:Al:64:TYR:HD1	1.91	0.53
13:An:7:ILE:O	13:An:11:LYS:HG3	2.09	0.53
17:Ar:87:ARG:HB3	17:Ar:87:ARG:NH1	2.23	0.53
18:As:36:ARG:HD3	22:Aa:1221:G:OP1	2.09	0.53
18:As:79:THR:O	18:As:80:TYR:HB3	2.09	0.53
22:Aa:1038:C:O5'	22:Aa:1038:C:H6	1.90	0.53
22:Aa:1169:A:H2'	22:Aa:1170:A:C8	2.44	0.53
22:Aa:1410:G:H1	22:Aa:1490:C:H42	1.56	0.53
22:Aa:1472:U:O2'	22:Aa:1473:A:H5'	2.08	0.53
26:AC:178:LYS:HB2	26:AC:181:PHE:CE1	2.44	0.53
27:AD:24:ILE:HD13	27:AD:25:THR:N	2.14	0.53
27:AD:139:GLY:O	27:AD:164:GLN:HG3	2.09	0.53
27:AD:262:ARG:HD3	57:AA:2085:C:O3'	2.09	0.53
28:AE:34:VAL:O	28:AE:35:GLN:HB2	2.09	0.53
29:AF:53:THR:N	29:AF:56:GLU:HG3	2.24	0.53
30:AG:43:LEU:CD2	30:AG:153:ARG:HD3	2.36	0.53
30:AG:95:ARG:NE	58:AB:45:A:H8	2.06	0.53
31:AH:142:GLY:O	57:AA:2745:C:H4'	2.09	0.53
32:AI:83:ALA:HB1	32:AI:88:ILE:HA	1.90	0.53
35:AO:40:VAL:HG11	57:AA:2561:A:H4'	1.91	0.53
37:AQ:12:GLN:HE21	37:AQ:73:PRO:CD	2.22	0.53
40:AT:80:SER:HB3	40:AT:81:PRO:CD	2.31	0.53
40:AT:123:GLN:O	40:AT:127:ALA:HB2	2.09	0.53
42:AV:52:VAL:HG13	42:AV:55:ALA:HB3	1.91	0.53
44:AX:34:ALA:HA	44:AX:38:GLU:OE1	2.09	0.53
45:AY:88:LYS:HD3	45:AY:93:GLY:H	1.74	0.53
46:AZ:146:ILE:HD12	57:AA:896:A:N3	2.24	0.53
49:A2:33:MET:HG2	49:A2:37:PHE:CE1	2.42	0.53
55:A8:50:LEU:CG	55:A8:51:ALA:N	2.72	0.53
57:AA:519:U:H2'	57:AA:520:G:H8	1.74	0.53
57:AA:1049:C:H2'	57:AA:1050:A:C8	2.44	0.53
57:AA:1478:G:HO2'	57:AA:1558:A:H2	1.57	0.53
57:AA:1748:G:H8	57:AA:1748:G:H5'	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2098:U:H2'	57:AA:2099:U:O4'	2.09	0.53
57:AA:2716:U:O2'	57:AA:2717:G:H5'	2.09	0.53
57:AA:2720:U:H2'	57:AA:2720:U:O2	2.09	0.53
1:Bb:78:GLN:HB3	1:Bb:94:ASN:ND2	2.22	0.53
1:Bb:97:TRP:CH2	1:Bb:173:ALA:HA	2.43	0.53
6:Bg:102:ARG:HG2	6:Bg:106:GLN:NE2	2.24	0.53
8:Bi:114:TYR:HE1	9:Bj:60:ARG:O	1.92	0.53
9:Bj:42:THR:OG1	9:Bj:68:HIS:HB3	2.08	0.53
9:Bj:61:GLU:CG	13:Bn:58:LYS:HE2	2.39	0.53
14:Bo:64:ARG:O	14:Bo:65:ARG:C	2.51	0.53
18:Bs:36:ARG:HG3	22:Ba:1320:C:N4	2.24	0.53
22:Ba:1021:G:N2	22:Ba:1022:G:H1'	2.24	0.53
22:Ba:1073:U:H3	22:Ba:1102:A:H61	1.55	0.53
22:Ba:1169:A:H2'	22:Ba:1170:A:C8	2.44	0.53
22:Ba:1470:G:O2'	22:Ba:1471:G:H5'	2.09	0.53
24:Bv:58:A:H4'	24:Bv:59:A:OP1	2.08	0.53
26:BC:21:TYR:HB2	26:BC:225:ILE:CG2	2.38	0.53
27:BD:45:ASN:ND2	27:BD:50:THR:HG21	2.24	0.53
30:BG:63:ILE:HD12	30:BG:141:PHE:CG	2.44	0.53
31:BH:136:ILE:HD12	31:BH:136:ILE:H	1.72	0.53
32:BI:5:LEU:HD11	32:BI:19:VAL:HG11	1.89	0.53
34:BN:58:ASP:C	34:BN:60:ILE:N	2.67	0.53
35:BO:67:LYS:NZ	57:BA:2726:U:H6	2.07	0.53
37:BQ:39:PRO:CD	37:BQ:99:PRO:HG3	2.36	0.53
39:BS:12:PHE:CD2	39:BS:12:PHE:N	2.76	0.53
39:BS:42:ASP:C	39:BS:44:LYS:H	2.15	0.53
42:BV:24:LYS:HE2	42:BV:90:PRO:CB	2.35	0.53
44:BX:66:LEU:O	44:BX:66:LEU:HD23	2.09	0.53
46:BZ:112:ARG:O	46:BZ:114:GLY:N	2.41	0.53
46:BZ:128:VAL:CG2	46:BZ:161:VAL:HG22	2.39	0.53
48:B1:53:VAL:O	48:B1:54:ALA:HB3	2.09	0.53
52:B5:3:LYS:HZ3	57:BA:2614:A:H5'	1.73	0.53
53:B6:41:PRO:HG3	53:B6:44:ARG:HH12	1.73	0.53
57:BA:259:G:N2	57:BA:621:A:H8	2.03	0.53
57:BA:673:C:C2'	57:BA:674:G:H5'	2.39	0.53
57:BA:1429:G:H2'	57:BA:1430:C:C6	2.43	0.53
57:BA:1799:G:H5'	57:BA:1819:A:H61	1.74	0.53
57:BA:1972:A:H2'	57:BA:1973:G:H8	1.73	0.53
57:BA:2030:A:H4'	57:BA:2031:A:H8	1.74	0.53
57:BA:2312:U:H2'	57:BA:2313:C:C5'	2.39	0.53
57:BA:2801(A):A:H4'	57:BA:2802:G:H2'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:11:LEU:HD12	1:Ab:217:ARG:NH2	2.23	0.53
1:Ab:103:THR:HG23	1:Ab:176:GLU:OE1	2.09	0.53
1:Ab:104:ASN:HB2	22:Aa:1074:G:H4'	1.91	0.53
1:Ab:163:PHE:O	1:Ab:164:VAL:HG13	2.09	0.53
3:Ad:150:GLU:CD	3:Ad:151:LYS:N	2.66	0.53
5:Af:19:LEU:HD23	5:Af:19:LEU:C	2.34	0.53
5:Af:24:GLU:HA	5:Af:27:GLN:HG2	1.90	0.53
7:Ah:29:SER:HB3	7:Ah:32:LYS:CG	2.39	0.53
8:Ai:50:LEU:CD2	8:Ai:85:LEU:HD23	2.40	0.53
10:Ak:84:VAL:HG11	10:Ak:95:ILE:HD11	1.90	0.53
18:As:51:VAL:HB	18:As:58:VAL:HG22	1.90	0.53
22:Aa:104:G:O2'	22:Aa:105:G:H5'	2.08	0.53
22:Aa:536:C:H6	22:Aa:536:C:O5'	1.92	0.53
22:Aa:1163:C:H2'	22:Aa:1164:G:C8	2.43	0.53
22:Aa:1502:A:H5'	22:Aa:1504:G:N7	2.23	0.53
22:Aa:1519:A:C2'	22:Aa:1520:G:H5'	2.36	0.53
26:AC:31:LYS:HZ2	26:AC:183:PRO:HG3	1.73	0.53
34:AN:94:HIS:N	34:AN:95:PRO:CD	2.72	0.53
35:AO:7:TYR:CZ	35:AO:44:LYS:HG3	2.43	0.53
39:AS:35:ILE:HD11	39:AS:99:LYS:CE	2.39	0.53
41:AU:24:TYR:HB2	41:AU:29:SER:HB3	1.91	0.53
45:AY:6:HIS:N	45:AY:6:HIS:CD2	2.76	0.53
45:AY:88:LYS:NZ	45:AY:93:GLY:CA	2.72	0.53
46:AZ:59:LEU:CG	46:AZ:69:THR:HG21	2.39	0.53
46:AZ:101:PRO:O	46:AZ:102:LEU:HD23	2.09	0.53
49:A2:2:LYS:HB3	57:AA:97:C:H5"	1.90	0.53
57:AA:1719:G:C2'	57:AA:1720:U:H5'	2.39	0.53
57:AA:2147:G:H2'	57:AA:2148:G:C4'	2.39	0.53
57:AA:2261:C:O2'	57:AA:2262:U:H5'	2.08	0.53
1:Bb:103:THR:HG23	1:Bb:176:GLU:OE1	2.09	0.53
2:Bc:195:VAL:C	2:Bc:196:LEU:HD22	2.35	0.53
3:Bd:45:GLN:O	3:Bd:45:GLN:HG3	2.09	0.53
5:Bf:62:TRP:C	5:Bf:63:TYR:CD2	2.82	0.53
10:Bk:84:VAL:HG11	10:Bk:95:ILE:HD11	1.91	0.53
11:Bl:7:ILE:O	11:Bl:11:VAL:HG23	2.09	0.53
31:BH:60:ARG:O	31:BH:64:LEU:HG	2.08	0.53
36:BP:38:GLN:HB3	57:BA:943:U:OP1	2.09	0.53
39:BS:41:ASP:OD2	39:BS:44:LYS:HG3	2.09	0.53
45:BY:66:PRO:O	45:BY:67:LEU:HB3	2.08	0.53
57:BA:809:G:O2'	57:BA:810:U:H5'	2.09	0.53
57:BA:1504:C:O2'	57:BA:1505:C:C5'	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2128:C:C2'	57:BA:2129:C:H5'	2.39	0.53
57:BA:2720:U:H3'	57:BA:2721:A:H8	1.74	0.53
1:Ab:233:SER:HB2	1:Ab:234:PRO:CD	2.27	0.52
6:Ag:69:VAL:O	6:Ag:69:VAL:HG12	2.08	0.52
7:Ah:30:ARG:NH1	7:Ah:30:ARG:CB	2.72	0.52
12:Am:52:GLU:O	12:Am:56:LEU:HB2	2.09	0.52
12:Am:108:ARG:HD2	12:Am:108:ARG:H	1.74	0.52
16:Aq:48:GLU:O	16:Aq:49:GLU:C	2.52	0.52
19:At:33:ILE:HG22	19:At:37:SER:OG	2.09	0.52
22:Aa:140:A:O2'	22:Aa:141:A:H5'	2.09	0.52
22:Aa:189:G:H2'	22:Aa:189(A):C:C6	2.44	0.52
22:Aa:428:G:H5'	22:Aa:430:A:O4'	2.09	0.52
22:Aa:538:G:O2'	22:Aa:539:A:H5'	2.08	0.52
22:Aa:648:A:H2'	22:Aa:649:G:H8	1.74	0.52
27:AD:92:ILE:HA	27:AD:107:ALA:H	1.74	0.52
29:AF:116:ASP:OD2	36:AP:5:ASP:N	2.42	0.52
30:AG:38:VAL:HG13	30:AG:93:THR:HA	1.91	0.52
30:AG:73:ALA:N	30:AG:87:PRO:HG3	2.23	0.52
30:AG:133:LEU:C	30:AG:133:LEU:HD12	2.34	0.52
30:AG:156:ASP:OD1	57:AA:2305:A:H5"	2.09	0.52
32:AI:46:ALA:HB2	57:AA:271(P):C:H5'	1.90	0.52
32:AI:140:LEU:O	32:AI:141:LYS:HD3	2.09	0.52
34:AN:46:VAL:O	34:AN:47:ALA:CB	2.57	0.52
37:AQ:134:ARG:CZ	46:AZ:122:ARG:NE	2.67	0.52
40:AT:27:THR:O	40:AT:28:VAL:CB	2.56	0.52
46:AZ:62:PRO:C	46:AZ:64:GLY:H	2.16	0.52
46:AZ:67:LEU:HD12	46:AZ:67:LEU:N	2.24	0.52
51:A4:50:VAL:O	51:A4:52:THR:N	2.41	0.52
55:A8:50:LEU:C	55:A8:53:PRO:CD	2.82	0.52
57:AA:1153:C:H2'	57:AA:1154:G:O4'	2.09	0.52
57:AA:1283:G:N2	57:AA:1285:G:H3'	2.24	0.52
57:AA:1602:U:H3'	57:AA:1603:A:C5'	2.39	0.52
57:AA:1999:C:H5"	57:AA:2723:C:O2'	2.09	0.52
57:AA:2128:C:C2'	57:AA:2129:C:H5'	2.39	0.52
57:AA:2779:U:H4'	57:AA:2780:G:H5'	1.91	0.52
1:Bb:163:PHE:O	1:Bb:164:VAL:HG13	2.08	0.52
4:Be:20:GLN:O	4:Be:21:ALA:C	2.51	0.52
5:Bf:15:ASP:OD1	5:Bf:17:SER:HB2	2.09	0.52
7:Bh:1:MET:HE2	7:Bh:1:MET:N	2.22	0.52
7:Bh:94:TYR:CD2	22:Ba:598:U:H4'	2.44	0.52
9:Bj:81:THR:HG22	9:Bj:85:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Bk:33:THR:CB	10:Bk:37:GLY:HA2	2.39	0.52
10:Bk:69:ALA:O	10:Bk:73:MET:HG2	2.09	0.52
11:Bl:7:ILE:HG23	11:Bl:8:ASN:N	2.24	0.52
12:Bm:89:GLY:O	12:Bm:93:ARG:HD2	2.10	0.52
14:Bo:36:ILE:HG22	14:Bo:37:ASN:N	2.23	0.52
17:Br:45:SER:HB3	17:Br:51:LEU:HD21	1.90	0.52
18:Bs:40:ILE:HG21	18:Bs:62:ILE:CD1	2.39	0.52
18:Bs:43:GLU:O	18:Bs:44:MET:HE3	2.09	0.52
18:Bs:79:THR:O	18:Bs:80:TYR:HB3	2.09	0.52
19:Bt:87:LYS:HA	19:Bt:90:GLN:OE1	2.09	0.52
21:By:52:LYS:HZ2	21:By:54:LYS:NZ	2.08	0.52
22:Ba:356:A:H1'	22:Ba:368:U:O2'	2.09	0.52
22:Ba:428:G:H5'	22:Ba:430:A:O4'	2.09	0.52
22:Ba:626:U:H2'	22:Ba:627:G:C8	2.44	0.52
22:Ba:980:C:H5'	22:Ba:981:U:C5	2.44	0.52
22:Ba:1241:G:H2'	22:Ba:1242:C:H6	1.70	0.52
22:Ba:1369:C:H2'	22:Ba:1370:G:C8	2.44	0.52
22:Ba:1388:C:H2'	22:Ba:1389:C:C6	2.44	0.52
22:Ba:1475:G:H2'	22:Ba:1476:G:H8	1.73	0.52
25:Bw:3:C:O2'	25:Bw:4:G:H5'	2.09	0.52
29:BF:9:ILE:HG12	29:BF:13:SER:O	2.08	0.52
29:BF:164:ARG:HG2	29:BF:164:ARG:NH1	2.23	0.52
29:BF:206:ILE:HG22	29:BF:207:GLY:N	2.24	0.52
30:BG:77:ILE:HG22	30:BG:80:PHE:O	2.08	0.52
32:BI:86:THR:O	32:BI:86:THR:HG23	2.08	0.52
32:BI:94:ALA:O	32:BI:99:GLU:N	2.40	0.52
36:BP:102:ARG:HH21	36:BP:102:ARG:HB2	1.72	0.52
36:BP:125:VAL:CG1	36:BP:138:LEU:HD21	2.39	0.52
37:BQ:21:THR:HG22	37:BQ:21:THR:O	2.08	0.52
38:BR:58:GLY:HA2	38:BR:80:PHE:CE1	2.44	0.52
40:BT:65:LYS:HG3	40:BT:66:VAL:N	2.23	0.52
45:BY:95:LYS:HD3	45:BY:100:ALA:CB	2.39	0.52
47:B0:45:PHE:HE2	47:B0:69:PHE:HE2	1.54	0.52
50:B3:54:VAL:HG12	50:B3:55:ARG:N	2.23	0.52
51:B4:13:ARG:HD3	51:B4:29:PRO:O	2.09	0.52
57:BA:16:G:O2'	57:BA:17:G:H5'	2.09	0.52
57:BA:191:A:H2'	57:BA:192:C:C6	2.44	0.52
57:BA:1153:C:H2'	57:BA:1154:G:O4'	2.08	0.52
57:BA:1345:C:O2'	57:BA:1346:G:H5'	2.09	0.52
57:BA:1349:A:N6	57:BA:1598:C:N4	2.57	0.52
57:BA:1590:U:H2'	57:BA:1591:G:C5'	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2552:U:O2	57:BA:2554:U:H5'	2.09	0.52
58:BB:54:G:O2'	58:BB:55:U:H5'	2.08	0.52
3:Ad:17:VAL:CG1	3:Ad:18:LYS:N	2.72	0.52
3:Ad:91:SER:O	3:Ad:92:VAL:C	2.51	0.52
3:Ad:190:ASP:O	3:Ad:194:LEU:HD23	2.10	0.52
4:Ae:150:ARG:O	4:Ae:153:LYS:HG2	2.09	0.52
5:Af:28:ARG:HG3	5:Af:28:ARG:NH1	2.22	0.52
8:Ai:116:LYS:O	8:Ai:117:HIS:C	2.52	0.52
9:Aj:4:ILE:HB	9:Aj:74:ILE:CD1	2.29	0.52
10:Ak:116:HIS:O	10:Ak:117:ASN:HB2	2.08	0.52
13:An:27:CYS:O	13:An:29:ARG:N	2.41	0.52
19:At:84:LEU:O	19:At:88:VAL:HG23	2.09	0.52
22:Aa:243:A:H4'	22:Aa:244:U:O5'	2.09	0.52
22:Aa:514:C:H2'	22:Aa:515:G:H8	1.74	0.52
22:Aa:551:U:H2'	22:Aa:552:U:C6	2.44	0.52
22:Aa:947:G:H2'	22:Aa:948:C:C6	2.44	0.52
26:AC:11:LEU:HB3	26:AC:33:LEU:HD22	1.89	0.52
29:AF:31:HIS:O	29:AF:34:TRP:HB3	2.08	0.52
30:AG:32:PRO:HB2	30:AG:172:LEU:HD13	1.91	0.52
30:AG:170:ARG:HH22	30:AG:182:LYS:CE	2.20	0.52
36:AP:102:ARG:O	36:AP:103:ALA:HB2	2.09	0.52
38:AR:3:HIS:HB2	57:AA:1654:A:OP1	2.10	0.52
38:AR:38:VAL:O	38:AR:41:ALA:HB3	2.09	0.52
46:AZ:96:VAL:HG12	46:AZ:128:VAL:O	2.09	0.52
57:AA:673:C:C2'	57:AA:674:G:H5'	2.38	0.52
57:AA:1208:C:O2	57:AA:1208:C:H2'	2.09	0.52
57:AA:1459:G:C8	57:AA:1461:G:H1'	2.44	0.52
57:AA:1742:G:N7	57:AA:1743:C:C4	2.77	0.52
58:AB:87:G:H2'	58:AB:88:C:H5"	1.92	0.52
1:Bb:215:LEU:O	1:Bb:218:ALA:HB3	2.09	0.52
8:Bi:19:LEU:CD2	8:Bi:61:ALA:HB2	2.39	0.52
8:Bi:37:PHE:CE1	8:Bi:74:ILE:HG12	2.44	0.52
11:Bl:121:GLY:HA2	22:Ba:35:G:O2'	2.10	0.52
12:Bm:22:ILE:CB	12:Bm:25:ILE:HD12	2.40	0.52
12:Bm:28:ALA:C	12:Bm:30:ALA:H	2.18	0.52
22:Ba:70:G:H1	22:Ba:99:U:H3	1.57	0.52
22:Ba:489:C:O2'	22:Ba:490:G:H5'	2.09	0.52
22:Ba:1319:A:N6	22:Ba:1361:G:H21	2.07	0.52
22:Ba:1354:C:O2'	22:Ba:1355:G:H5'	2.08	0.52
28:BE:78:LEU:O	28:BE:78:LEU:HD12	2.09	0.52
30:BG:31:VAL:HG13	30:BG:31:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:67:LYS:CE	51:B4:6:HIS:NE2	2.72	0.52
30:BG:160:VAL:CG1	30:BG:161:THR:N	2.72	0.52
31:BH:55:PRO:HG2	31:BH:61:HIS:CE1	2.44	0.52
31:BH:156:ALA:O	31:BH:158:HIS:N	2.42	0.52
32:BI:77:LEU:HD13	32:BI:140:LEU:HA	1.91	0.52
32:BI:91:SER:CB	32:BI:119:PRO:HB2	2.31	0.52
33:BJ:108:LYS:O	33:BJ:110:GLY:N	2.42	0.52
35:BO:13:ASN:ND2	35:BO:97:ARG:HB2	2.24	0.52
35:BO:40:VAL:HG11	57:BA:2561:A:H4'	1.90	0.52
36:BP:102:ARG:O	36:BP:103:ALA:HB2	2.09	0.52
39:BS:24:LEU:HB3	39:BS:85:VAL:CG1	2.39	0.52
39:BS:49:VAL:HG11	39:BS:73:LEU:HD23	1.91	0.52
40:BT:125:ARG:HH11	40:BT:125:ARG:CA	2.22	0.52
42:BV:62:LEU:N	42:BV:62:LEU:HD22	2.24	0.52
44:BX:44:GLU:HG3	44:BX:51:VAL:HG23	1.90	0.52
45:BY:2:ARG:NE	45:BY:3:VAL:HG23	2.24	0.52
46:BZ:51:ALA:O	46:BZ:52:SER:HB3	2.09	0.52
55:B8:53:PRO:HG2	55:B8:54:GLU:N	2.24	0.52
57:BA:587:C:O2'	57:BA:588:U:OP2	2.22	0.52
57:BA:1111:A:O2'	57:BA:1112:G:H4'	2.09	0.52
57:BA:1777:U:O2'	57:BA:1778:U:H5'	2.09	0.52
57:BA:2294:C:N4	57:BA:2338:G:H1	2.06	0.52
58:BB:1:U:O2	58:BB:1:U:H2'	2.08	0.52
1:Ab:79:ASP:O	1:Ab:81:VAL:N	2.42	0.52
2:Ac:103:VAL:HG12	2:Ac:104:GLN:N	2.24	0.52
9:Aj:53:PRO:HA	13:An:42:ILE:HD11	1.92	0.52
11:Al:24:VAL:HG13	11:Al:98:TYR:CE2	2.44	0.52
11:Al:32:PHE:CB	11:Al:84:LEU:HD21	2.40	0.52
22:Aa:34:C:H2'	22:Aa:35:G:C8	2.44	0.52
22:Aa:224:C:H2'	22:Aa:225:C:C6	2.44	0.52
22:Aa:300:A:H2'	22:Aa:301:G:O4'	2.09	0.52
22:Aa:1012:U:H2'	22:Aa:1013:G:C8	2.44	0.52
27:AD:65:ILE:HD11	27:AD:67:PHE:CD1	2.45	0.52
29:AF:155:LEU:HD22	29:AF:186:ILE:HA	1.91	0.52
30:AG:67:LYS:H	30:AG:67:LYS:CE	2.11	0.52
38:AR:99:LYS:CD	38:AR:99:LYS:N	2.70	0.52
39:AS:42:ASP:C	39:AS:44:LYS:H	2.16	0.52
41:AU:91:ASP:CG	41:AU:96:ALA:HB2	2.34	0.52
42:AV:24:LYS:HE2	42:AV:90:PRO:CB	2.36	0.52
53:A6:37:ARG:NH1	53:A6:39:TYR:HE1	2.07	0.52
57:AA:1983:C:O2'	57:AA:1984:G:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2312:U:H2'	57:AA:2313:C:C5'	2.39	0.52
57:AA:2419:U:H2'	57:AA:2420:C:H6	1.74	0.52
57:AA:2591:C:H2'	57:AA:2592:G:C8	2.44	0.52
5:Bf:18:GLN:O	5:Bf:21:LEU:HB2	2.10	0.52
5:Bf:24:GLU:CG	5:Bf:28:ARG:HH12	2.22	0.52
8:Bi:89:ASN:OD1	8:Bi:91:ASP:HB2	2.09	0.52
9:Bj:35:SER:O	9:Bj:72:VAL:HG13	2.08	0.52
10:Bk:20:TYR:CD1	22:Ba:707:C:H4'	2.45	0.52
10:Bk:26:ASN:ND2	22:Ba:692:U:C5	2.77	0.52
16:Bq:18:THR:HG23	16:Bq:69:LYS:HE3	1.91	0.52
17:Br:57:GLY:O	17:Br:58:LEU:C	2.52	0.52
22:Ba:67:C:H2'	22:Ba:68:G:H8	1.74	0.52
22:Ba:437:U:H2'	22:Ba:438:G:O4'	2.08	0.52
22:Ba:586:C:H1'	22:Ba:878:G:O2'	2.09	0.52
22:Ba:975:A:H8	22:Ba:975:A:H5'	1.74	0.52
26:BC:16:ASP:OD2	26:BC:19:LYS:HB2	2.09	0.52
26:BC:182:PRO:CB	26:BC:185:LYS:HD2	2.40	0.52
27:BD:27:THR:HG23	27:BD:83:GLU:HB3	1.90	0.52
27:BD:79:VAL:HG11	27:BD:111:LEU:HD12	1.92	0.52
29:BF:51:THR:HB	29:BF:88:VAL:CG1	2.32	0.52
31:BH:72:ILE:O	31:BH:75:ALA:N	2.43	0.52
31:BH:97:ARG:O	31:BH:103:LEU:HD12	2.08	0.52
32:BI:46:ALA:HB2	57:BA:271(P):C:C5'	2.40	0.52
32:BI:69:LYS:HG2	32:BI:73:GLU:OE2	2.09	0.52
34:BN:103:VAL:HG11	34:BN:120:LEU:HD12	1.91	0.52
36:BP:108:LYS:HD2	36:BP:108:LYS:N	2.24	0.52
40:BT:62:THR:HG22	40:BT:75:ILE:HG23	1.90	0.52
45:BY:2:ARG:HD3	45:BY:2:ARG:C	2.35	0.52
46:BZ:52:SER:OG	46:BZ:53:ILE:N	2.41	0.52
57:BA:404:C:C4'	57:BA:405:U:H5'	2.31	0.52
57:BA:882:G:H2'	57:BA:883:G:H8	1.73	0.52
57:BA:1283:G:N2	57:BA:1285:G:H3'	2.25	0.52
57:BA:2039:C:H2'	57:BA:2040:C:H6	1.75	0.52
57:BA:2378:A:H8	57:BA:2378:A:O5'	1.93	0.52
57:BA:2476:A:H2'	57:BA:2477:C:H5"	1.91	0.52
1:Ab:165:VAL:HG23	1:Ab:166:ASP:N	2.25	0.52
2:Ac:163:ALA:CB	22:Aa:1056:U:H5'	2.40	0.52
5:Af:87:ARG:O	5:Af:88:VAL:HG23	2.10	0.52
7:Ah:9:MET:O	7:Ah:13:ILE:HG12	2.09	0.52
7:Ah:20:TYR:CE2	7:Ah:75:ARG:HD2	2.38	0.52
9:Aj:3:LYS:N	9:Aj:74:ILE:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ak:24:SER:O	10:Ak:26:ASN:N	2.42	0.52
13:An:16:PHE:CD2	13:An:16:PHE:N	2.78	0.52
14:Ao:86:GLY:O	14:Ao:87:ILE:HG23	2.10	0.52
22:Aa:189(C):C:O2'	22:Aa:189(D):C:H5'	2.09	0.52
22:Aa:665:A:H2'	22:Aa:725:G:H22	1.74	0.52
22:Aa:724:G:O2'	22:Aa:725:G:H5'	2.10	0.52
22:Aa:759:A:C2'	22:Aa:760:G:H5'	2.39	0.52
24:Av:21:A:H5'	24:Av:22:G:OP1	2.08	0.52
26:AC:6:LYS:C	26:AC:8:TYR:N	2.63	0.52
28:AE:34:VAL:O	28:AE:34:VAL:HG22	2.09	0.52
32:AI:84:GLY:HA2	32:AI:144:VAL:HG13	1.91	0.52
37:AQ:39:PRO:HB3	37:AQ:99:PRO:HD3	1.91	0.52
40:AT:89:VAL:HB	40:AT:91:ARG:HG3	1.91	0.52
41:AU:8:VAL:CG2	41:AU:12:ARG:HG2	2.40	0.52
43:AW:86:LEU:HD12	43:AW:87:PRO:HD2	1.90	0.52
51:A4:48:ARG:HG3	51:A4:49:PHE:HD1	1.74	0.52
52:A5:40:LYS:CD	52:A5:46:CYS:HB3	2.39	0.52
57:AA:192:C:H2'	57:AA:193:U:H5'	1.91	0.52
57:AA:635:C:H2'	57:AA:636:G:H8	1.74	0.52
57:AA:1924:C:O2'	57:AA:1925:C:H5'	2.10	0.52
57:AA:2243:U:H2'	57:AA:2244:U:C6	2.44	0.52
57:AA:2815:C:H2'	57:AA:2816:C:H6	1.74	0.52
1:Bb:11:LEU:HD12	1:Bb:217:ARG:NH2	2.24	0.52
1:Bb:72:GLY:HA2	1:Bb:165:VAL:CG2	2.39	0.52
2:Bc:167:TRP:O	2:Bc:168:ALA:HB3	2.09	0.52
3:Bd:175:SER:OG	3:Bd:186:LEU:HD21	2.09	0.52
4:Be:72:GLN:NE2	4:Be:144:THR:HG22	2.24	0.52
8:Bi:102:LEU:C	8:Bi:102:LEU:CD2	2.83	0.52
9:Bj:3:LYS:NZ	9:Bj:77:PRO:HD2	2.23	0.52
11:Bl:113:ARG:HG3	11:Bl:114:LYS:N	2.24	0.52
19:Bt:84:LEU:O	19:Bt:88:VAL:HG23	2.09	0.52
21:By:52:LYS:HZ2	21:By:54:LYS:CE	2.21	0.52
22:Ba:84:U:C2'	22:Ba:88:A:H5'	2.40	0.52
22:Ba:139:G:H2'	22:Ba:140:A:H8	1.75	0.52
22:Ba:857:C:H2'	22:Ba:858:G:O4'	2.09	0.52
22:Ba:924:C:O2'	22:Ba:1502:A:N6	2.43	0.52
22:Ba:1149:C:H2'	22:Ba:1150:U:H6	1.74	0.52
22:Ba:1406:U:H2'	22:Ba:1407:C:H6	1.73	0.52
27:BD:132:PRO:HD3	27:BD:190:TYR:CE2	2.44	0.52
30:BG:125:PHE:CD2	30:BG:131:TYR:HD1	2.27	0.52
31:BH:30:LYS:HB2	31:BH:79:VAL:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:41:MET:HG3	31:BH:42:ARG:H	1.68	0.52
32:BI:91:SER:O	32:BI:92:VAL:HB	2.09	0.52
32:BI:129:THR:CG2	32:BI:130:TYR:N	2.72	0.52
35:BO:24:VAL:HA	35:BO:39:ILE:HG22	1.91	0.52
35:BO:64:ARG:NH1	40:BT:70:VAL:CG2	2.71	0.52
36:BP:107:LYS:O	36:BP:109:GLY:N	2.42	0.52
39:BS:58:LEU:O	39:BS:59:LYS:O	2.27	0.52
41:BU:10:ARG:HG3	57:BA:1251:C:OP1	2.10	0.52
41:BU:79:PHE:O	41:BU:83:LEU:HD22	2.10	0.52
42:BV:19:LYS:HZ3	42:BV:20:LEU:HB2	1.73	0.52
42:BV:91:TYR:H	42:BV:91:TYR:HD1	1.57	0.52
45:BY:80:GLY:O	45:BY:81:LYS:HB3	2.09	0.52
46:BZ:37:VAL:HG23	46:BZ:38:TYR:N	2.24	0.52
53:B6:6:ARG:N	53:B6:6:ARG:HD2	2.24	0.52
57:BA:27:G:N2	57:BA:512:G:C2'	2.71	0.52
57:BA:1719:G:C2'	57:BA:1720:U:H5'	2.38	0.52
57:BA:2206:G:C2	57:BA:2207:G:H5'	2.43	0.52
57:BA:2329:G:H2'	57:BA:2330:G:H8	1.74	0.52
58:BB:70:C:H2'	58:BB:71:C:C6	2.44	0.52
58:BB:81:G:N3	58:BB:81:G:H5'	2.23	0.52
3:Ad:196:LEU:HD12	3:Ad:196:LEU:N	2.19	0.52
9:Aj:42:THR:OG1	9:Aj:68:HIS:HB3	2.10	0.52
12:Am:28:ALA:C	12:Am:30:ALA:H	2.18	0.52
18:As:40:ILE:HG21	18:As:62:ILE:CD1	2.39	0.52
22:Aa:424:G:O2'	22:Aa:425:G:H5'	2.09	0.52
22:Aa:429:U:H1'	22:Aa:430:A:H5"	1.91	0.52
22:Aa:1158:C:H2'	22:Aa:1158:C:O2	2.10	0.52
22:Aa:1388:C:H2'	22:Aa:1389:C:C6	2.44	0.52
22:Aa:1505:G:H5"	22:Aa:1506:U:H5"	1.91	0.52
25:Aw:4:G:HO2'	25:Aw:5:G:H8	1.57	0.52
27:AD:18:VAL:HG22	27:AD:211:ARG:NH2	2.25	0.52
27:AD:31:LYS:C	27:AD:33:LEU:H	2.18	0.52
27:AD:45:ASN:ND2	27:AD:50:THR:CG2	2.73	0.52
28:AE:64:LYS:C	28:AE:66:HIS:H	2.14	0.52
29:AF:89:VAL:HG12	29:AF:90:PHE:H	1.74	0.52
29:AF:136:THR:O	29:AF:137:LYS:C	2.53	0.52
32:AI:84:GLY:HA3	32:AI:89:TYR:OH	2.09	0.52
32:AI:107:VAL:O	32:AI:109:ILE:CD1	2.58	0.52
39:AS:62:LYS:O	39:AS:65:VAL:N	2.42	0.52
39:AS:81:GLY:O	39:AS:83:LYS:N	2.42	0.52
40:AT:34:VAL:O	40:AT:35:LYS:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AV:15:GLU:O	42:AV:16:PRO:C	2.52	0.52
43:AW:2:GLU:HA	43:AW:64:MET:HE1	1.91	0.52
44:AX:55:ASN:HB2	44:AX:80:ILE:CD1	2.39	0.52
46:AZ:20:ARG:HA	46:AZ:20:ARG:HH11	1.74	0.52
53:A6:25:LYS:HE3	57:AA:2284:C:H41	1.73	0.52
57:AA:635:C:H2'	57:AA:636:G:C8	2.44	0.52
57:AA:644:A:C2	57:AA:2369:A:H1'	2.44	0.52
57:AA:780:G:H21	57:AA:783:A:H62	1.57	0.52
57:AA:1721:G:H5'	57:AA:1722:A:OP2	2.09	0.52
57:AA:2030:A:H4'	57:AA:2031:A:H8	1.74	0.52
57:AA:2289:G:H2'	57:AA:2290:G:H8	1.72	0.52
58:AB:20:C:C3'	58:AB:21:G:H5"	2.39	0.52
1:Bb:111:ARG:HH11	1:Bb:111:ARG:HG2	1.73	0.52
1:Bb:115:LEU:HD13	1:Bb:145:LEU:HD12	1.90	0.52
6:Bg:77:SER:HB3	6:Bg:86:GLN:HB3	1.91	0.52
7:Bh:8:ASP:O	7:Bh:11:THR:N	2.42	0.52
7:Bh:36:LEU:CA	7:Bh:39:LEU:HD23	2.38	0.52
8:Bi:18:PHE:HD1	8:Bi:62:TYR:CD2	2.24	0.52
8:Bi:125:TYR:HD2	8:Bi:126:SER:N	2.08	0.52
9:Bj:70:ARG:HH22	22:Ba:1152:A:H5'	1.73	0.52
10:Bk:24:SER:O	10:Bk:26:ASN:N	2.43	0.52
15:Bp:52:ASP:OD1	15:Bp:55:ARG:HG3	2.09	0.52
22:Ba:167:G:O2'	22:Ba:168:G:H5'	2.09	0.52
22:Ba:424:G:H2'	22:Ba:425:G:H8	1.74	0.52
22:Ba:729:A:H2'	22:Ba:730:G:H8	1.74	0.52
22:Ba:1264:C:H1'	22:Ba:1272:G:N2	2.25	0.52
27:BD:201:HIS:O	27:BD:203:ASN:N	2.42	0.52
28:BE:50:GLY:HA2	28:BE:78:LEU:HB3	1.92	0.52
28:BE:61:ARG:HD3	57:BA:2787:C:C1'	2.36	0.52
28:BE:131:ALA:HB3	57:BA:2579:C:O2'	2.08	0.52
28:BE:176:ILE:HB	28:BE:181:LEU:HB2	1.91	0.52
30:BG:72:ARG:CD	30:BG:86:MET:HA	2.38	0.52
30:BG:105:LYS:HG2	30:BG:142:PRO:HG3	1.90	0.52
32:BI:1:MET:HG3	32:BI:23:PRO:HG3	1.91	0.52
32:BI:88:ILE:HD11	32:BI:142:VAL:CG2	2.38	0.52
33:BJ:57:THR:O	33:BJ:58:LEU:C	2.52	0.52
35:BO:120:GLU:HG2	35:BO:122:LEU:HD21	1.92	0.52
39:BS:105:ALA:C	39:BS:107:GLU:N	2.66	0.52
41:BU:8:VAL:CG2	41:BU:12:ARG:HG2	2.40	0.52
45:BY:7:VAL:CB	45:BY:8:LYS:NZ	2.73	0.52
46:BZ:11:GLU:HB2	46:BZ:13:GLU:CD	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:40:ASP:OD2	46:BZ:41:LEU:N	2.43	0.52
46:BZ:91:LEU:HD22	46:BZ:96:VAL:HG11	1.91	0.52
46:BZ:153:SER:HB2	46:BZ:163:LEU:CD1	2.40	0.52
52:B5:3:LYS:HB3	57:BA:747:U:C4	2.45	0.52
52:B5:50:GLY:O	52:B5:51:TYR:CB	2.57	0.52
57:BA:234:C:H2'	57:BA:235:U:C6	2.44	0.52
57:BA:478:A:N1	57:BA:500:G:H4'	2.24	0.52
57:BA:610:G:H2'	57:BA:611:C:C6	2.44	0.52
57:BA:2803:C:H2'	57:BA:2804:C:C6	2.45	0.52
1:Ab:107:THR:HA	1:Ab:110:GLN:NE2	2.24	0.52
2:Ac:14:ILE:HG23	2:Ac:15:THR:N	2.25	0.52
3:Ad:47:ARG:NE	3:Ad:49:ARG:HH22	2.05	0.52
3:Ad:128:VAL:HG12	3:Ad:129:ASN:ND2	2.25	0.52
4:Ae:20:GLN:O	4:Ae:21:ALA:C	2.52	0.52
4:Ae:78:HIS:CD2	7:Ah:104:ARG:HG3	2.45	0.52
7:Ah:84:ARG:NH1	7:Ah:86:ILE:HD13	2.23	0.52
8:Ai:5:TYR:HA	8:Ai:17:VAL:O	2.10	0.52
10:Ak:69:ALA:O	10:Ak:73:MET:HG2	2.10	0.52
10:Ak:105:VAL:HB	10:Ak:108:ILE:CD1	2.38	0.52
12:Am:55:ARG:O	12:Am:58:GLU:HB2	2.09	0.52
22:Aa:1218:C:H2'	22:Aa:1219:U:C5	2.45	0.52
26:AC:6:LYS:CD	57:AA:2132:U:H3	2.22	0.52
26:AC:21:TYR:HB2	26:AC:225:ILE:CG2	2.39	0.52
27:AD:65:ILE:HD11	27:AD:67:PHE:CG	2.45	0.52
27:AD:176:ARG:HH11	27:AD:176:ARG:CG	2.20	0.52
27:AD:181:GLU:CA	27:AD:272:ALA:HB3	2.35	0.52
32:AI:62:LYS:HE3	32:AI:133:HIS:C	2.35	0.52
41:AU:95:LEU:HD12	42:AV:11:GLN:HE21	1.74	0.52
41:AU:101:ARG:HH11	41:AU:101:ARG:CB	2.15	0.52
41:AU:108:GLU:HG3	42:AV:44:LYS:CD	2.40	0.52
46:AZ:19:ARG:HH12	46:AZ:84:GLU:CA	2.22	0.52
46:AZ:61:LEU:HD23	46:AZ:61:LEU:N	2.16	0.52
46:AZ:70:LEU:CD1	46:AZ:98:MET:SD	2.94	0.52
47:A0:36:ILE:HD12	47:A0:38:VAL:N	2.24	0.52
57:AA:332:A:H4'	57:AA:333:G:OP1	2.07	0.52
57:AA:589:C:O2'	57:AA:590:A:H5'	2.10	0.52
57:AA:941:A:H2'	57:AA:942:G:C8	2.45	0.52
57:AA:1396:U:O2	57:AA:1396:U:C2'	2.57	0.52
57:AA:1794:U:O2'	57:AA:1795:C:H5'	2.10	0.52
4:Be:80:ILE:HD11	4:Be:138:ALA:HB1	1.92	0.52
8:Bi:56:LEU:O	8:Bi:56:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Bj:3:LYS:N	9:Bj:74:ILE:O	2.43	0.52
9:Bj:75:ILE:HG13	9:Bj:76:ASN:N	2.25	0.52
15:Bp:17:TYR:CE2	22:Ba:375:U:H4'	2.45	0.52
22:Ba:189:G:H2'	22:Ba:189(A):C:C6	2.44	0.52
22:Ba:710:G:H2'	22:Ba:711:G:C8	2.44	0.52
22:Ba:1158:C:H2'	22:Ba:1158:C:O2	2.08	0.52
27:BD:31:LYS:HB3	27:BD:34:VAL:HG22	1.91	0.52
27:BD:161:THR:HG21	57:BA:1819:A:H5"	1.92	0.52
29:BF:198:ALA:O	29:BF:201:VAL:HG12	2.09	0.52
30:BG:51:ARG:HD3	30:BG:53:LEU:CD2	2.39	0.52
30:BG:113:ARG:O	30:BG:113:ARG:HD3	2.09	0.52
31:BH:154:PRO:HB3	31:BH:163:TYR:CZ	2.45	0.52
32:BI:34:GLY:O	32:BI:35:LEU:HD23	2.09	0.52
34:BN:3:THR:O	34:BN:3:THR:HG22	2.10	0.52
35:BO:35:VAL:HG11	35:BO:103:ALA:HB3	1.91	0.52
36:BP:35:HIS:HB3	57:BA:942:G:OP1	2.09	0.52
41:BU:47:TYR:HD1	41:BU:50:ARG:HH22	1.56	0.52
43:BW:42:ARG:HB2	57:BA:2010:G:H5"	1.92	0.52
43:BW:82:LEU:CB	43:BW:98:LYS:HB2	2.39	0.52
46:BZ:3:TYR:CB	46:BZ:57:ILE:HA	2.40	0.52
46:BZ:7:ALA:O	46:BZ:62:PRO:HD3	2.09	0.52
50:B3:8:LEU:HD12	50:B3:30:ARG:O	2.09	0.52
51:B4:50:VAL:C	51:B4:52:THR:H	2.17	0.52
52:B5:3:LYS:HZ1	57:BA:2614:A:H5'	1.72	0.52
53:B6:45:LYS:HE3	57:BA:2371:G:H5"	1.92	0.52
54:B7:5:TRP:CZ3	57:BA:464:U:H4'	2.44	0.52
57:BA:271(H):G:O2'	57:BA:271(I):G:H8	1.92	0.52
57:BA:296:C:C2'	57:BA:297:C:H5'	2.39	0.52
57:BA:1049:C:H2'	57:BA:1050:A:C8	2.44	0.52
57:BA:1221(A):C:O2'	57:BA:1222:C:H5'	2.09	0.52
57:BA:1327:C:H2'	57:BA:1328:G:O4'	2.10	0.52
57:BA:1448:G:H1'	57:BA:1528:A:N6	2.24	0.52
57:BA:1838:C:N4	57:BA:1898:U:H2'	2.25	0.52
57:BA:2025:C:H2'	57:BA:2026:C:H6	1.75	0.52
57:BA:2777:G:H5"	57:BA:2778:A:C5'	2.40	0.52
3:Ad:61:LYS:CE	3:Ad:62:GLN:HE21	2.23	0.52
8:Ai:95:LYS:NZ	8:Ai:96:LEU:HD13	2.25	0.52
9:Aj:41:PRO:HB3	22:Aa:1150:U:H4'	1.92	0.52
11:Al:18:VAL:O	11:Al:19:ARG:HB2	2.08	0.52
14:Ao:64:ARG:O	14:Ao:65:ARG:C	2.51	0.52
16:Aq:44:ALA:HA	16:Aq:71:PHE:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Ar:45:SER:HB3	17:Ar:51:LEU:HD21	1.91	0.52
18:As:18:LYS:O	18:As:22:LEU:HB2	2.10	0.52
22:Aa:626:U:H2'	22:Aa:627:G:C8	2.44	0.52
22:Aa:814:A:H2'	22:Aa:816:A:H5"	1.92	0.52
22:Aa:1128:C:H42	22:Aa:1143:G:H1	1.55	0.52
22:Aa:1499:A:H1'	22:Aa:1520:G:H5'	1.90	0.52
27:AD:31:LYS:O	27:AD:33:LEU:N	2.43	0.52
30:AG:63:ILE:HG21	30:AG:141:PHE:CB	2.40	0.52
30:AG:98:ARG:NE	51:A4:1:MET:HG2	2.25	0.52
30:AG:98:ARG:NH1	51:A4:9:LEU:HB2	2.25	0.52
31:AH:43:VAL:O	31:AH:43:VAL:HG23	2.09	0.52
32:AI:29:TYR:C	32:AI:32:PRO:HD2	2.35	0.52
36:AP:7:ARG:NH1	36:AP:7:ARG:CB	2.72	0.52
36:AP:35:HIS:O	36:AP:36:LYS:HB2	2.10	0.52
39:AS:90:GLY:O	39:AS:92:TYR:N	2.43	0.52
39:AS:96:GLY:C	39:AS:98:VAL:H	2.18	0.52
41:AU:92:ARG:HE	57:AA:996:A:C4'	2.22	0.52
46:AZ:4:ARG:O	46:AZ:5:LEU:HB2	2.10	0.52
49:A2:33:MET:O	49:A2:37:PHE:HD1	1.92	0.52
53:A6:9:LEU:HD12	53:A6:28:ARG:CG	2.39	0.52
57:AA:420:C:H2'	57:AA:421:U:C6	2.44	0.52
57:AA:1907:G:O2'	57:AA:1908:C:H5'	2.10	0.52
57:AA:1932:A:H2'	57:AA:1933:G:O4'	2.09	0.52
1:Bb:17:PHE:HD2	1:Bb:17:PHE:H	1.57	0.52
5:Bf:24:GLU:HA	5:Bf:27:GLN:HG2	1.90	0.52
6:Bg:79:ARG:HD3	6:Bg:82:GLY:N	2.17	0.52
9:Bj:8:LEU:CD2	9:Bj:96:ILE:HG22	2.38	0.52
9:Bj:57:LYS:CG	22:Ba:972:C:H4'	2.40	0.52
21:By:67:ILE:HG22	21:By:69:GLU:HB3	1.92	0.52
22:Ba:179:A:H2'	22:Ba:180:U:C6	2.45	0.52
22:Ba:580:U:H2'	22:Ba:581:G:O4'	2.09	0.52
22:Ba:1073:U:H2'	22:Ba:1074:G:C8	2.44	0.52
22:Ba:1169:A:H2'	22:Ba:1170:A:H8	1.74	0.52
28:BE:11:MET:HB3	28:BE:24:THR:HA	1.92	0.52
28:BE:203:LYS:HE3	28:BE:204:ALA:HB2	1.92	0.52
29:BF:66:PRO:O	29:BF:67:GLN:CB	2.58	0.52
31:BH:33:LEU:HD12	31:BH:75:ALA:HA	1.91	0.52
35:BO:114:ILE:HD12	35:BO:114:ILE:N	2.23	0.52
36:BP:97:PRO:O	36:BP:98:GLU:CB	2.58	0.52
36:BP:105:LEU:HG	57:BA:626:U:C2	2.45	0.52
38:BR:99:LYS:HA	38:BR:112:ALA:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:6:LEU:O	40:BT:6:LEU:HD23	2.09	0.52
40:BT:38:ASN:C	40:BT:40:THR:H	2.17	0.52
41:BU:96:ALA:C	41:BU:98:LEU:N	2.63	0.52
43:BW:15:ARG:NH2	57:BA:1266:G:O5'	2.37	0.52
44:BX:44:GLU:HG2	44:BX:51:VAL:HG23	1.92	0.52
45:BY:88:LYS:NZ	45:BY:93:GLY:CA	2.72	0.52
45:BY:90:LEU:HG	45:BY:91:GLU:N	2.23	0.52
46:BZ:5:LEU:O	46:BZ:59:LEU:HD23	2.10	0.52
52:B5:6:VAL:CG1	57:BA:2016:U:H1'	2.40	0.52
52:B5:40:LYS:HZ2	52:B5:46:CYS:H	1.58	0.52
55:B8:3:LYS:HE3	57:BA:242:G:O5'	2.09	0.52
57:BA:547:A:H1'	57:BA:548:A:N7	2.25	0.52
57:BA:1337:G:H2'	57:BA:1338:G:H8	1.75	0.52
57:BA:2199:A:H5"	57:BA:2200:C:H5	1.74	0.52
57:BA:2280:G:O2'	57:BA:2281:C:H5'	2.09	0.52
2:Ac:141:VAL:HG11	2:Ac:202:ILE:HD12	1.91	0.52
2:Ac:153:VAL:HG12	2:Ac:154:SER:N	2.25	0.52
6:Ag:25:ALA:HA	6:Ag:28:ASN:ND2	2.25	0.52
8:Ai:28:VAL:HG13	8:Ai:63:ILE:O	2.09	0.52
10:Ak:21:ILE:HD11	10:Ak:82:VAL:HG13	1.90	0.52
11:Al:58:VAL:O	11:Al:65:GLU:HA	2.09	0.52
12:Am:28:ALA:C	12:Am:30:ALA:N	2.67	0.52
14:Ao:26:GLU:HG3	14:Ao:77:ARG:HH11	1.75	0.52
15:Ap:52:ASP:OD1	15:Ap:55:ARG:HG3	2.10	0.52
19:At:10:LEU:HD23	22:Aa:332:G:OP2	2.10	0.52
22:Aa:166:G:H2'	22:Aa:167:G:H8	1.75	0.52
22:Aa:586:C:H1'	22:Aa:878:G:O2'	2.10	0.52
27:AD:30:GLU:CD	27:AD:63:ARG:NE	2.66	0.52
27:AD:119:ALA:CB	27:AD:130:ALA:HB3	2.40	0.52
28:AE:59:VAL:CG1	28:AE:63:LEU:HG	2.40	0.52
28:AE:61:ARG:CG	57:AA:2787:C:H1'	2.39	0.52
29:AF:25:PRO:CB	29:AF:119:ARG:HD3	2.40	0.52
30:AG:144:ILE:HD12	30:AG:145:THR:H	1.74	0.52
32:AI:127:VAL:C	32:AI:128:LEU:HD22	2.35	0.52
41:AU:68:ALA:O	41:AU:71:GLN:HB3	2.09	0.52
44:AX:12:VAL:HG13	44:AX:27:THR:C	2.35	0.52
45:AY:13:VAL:HG13	45:AY:14:LEU:N	2.24	0.52
45:AY:49:VAL:HG22	57:AA:483:A:C5'	2.34	0.52
46:AZ:59:LEU:HG	46:AZ:69:THR:CG2	2.40	0.52
46:AZ:168:GLU:O	46:AZ:170:THR:N	2.43	0.52
57:AA:191:A:H2'	57:AA:192:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:554:U:O2'	57:AA:555:U:H5'	2.09	0.52
57:AA:836:G:H2'	57:AA:837:C:H6	1.74	0.52
57:AA:1221:C:H2'	57:AA:1221(A):C:C6	2.45	0.52
57:AA:2036:C:H5'	57:AA:2036:C:C6	2.37	0.52
57:AA:2476:A:H2'	57:AA:2477:C:H5"	1.92	0.52
1:Bb:173:ALA:O	1:Bb:174:VAL:C	2.52	0.52
3:Bd:12:CYS:HA	3:Bd:19:LEU:CD1	2.40	0.52
3:Bd:63:LYS:HD3	3:Bd:197:PRO:O	2.09	0.52
5:Bf:87:ARG:O	5:Bf:88:VAL:HG23	2.10	0.52
6:Bg:116:ALA:HB2	22:Ba:1240:U:OP2	2.10	0.52
8:Bi:110:GLU:OE2	8:Bi:119:ALA:HB1	2.09	0.52
8:Bi:116:LYS:O	8:Bi:117:HIS:C	2.53	0.52
9:Bj:52:GLY:H	22:Ba:1060:C:H4'	1.74	0.52
12:Bm:71:ARG:O	12:Bm:74:VAL:N	2.42	0.52
15:Bp:20:VAL:HG22	15:Bp:21:VAL:N	2.24	0.52
22:Ba:166:G:H2'	22:Ba:167:G:H8	1.75	0.52
22:Ba:299:G:H2'	22:Ba:300:A:C8	2.45	0.52
22:Ba:486:U:H2'	22:Ba:487:A:C8	2.43	0.52
22:Ba:1411:C:H2'	22:Ba:1412:C:C6	2.45	0.52
22:Ba:1414:U:H2'	22:Ba:1415:G:H8	1.74	0.52
25:Bw:19:G:H1	25:Bw:56:C:H42	1.57	0.52
26:BC:6:LYS:CD	57:BA:2132:U:H3	2.22	0.52
26:BC:23:ILE:HG22	26:BC:23:ILE:O	2.09	0.52
27:BD:13:ARG:NH1	27:BD:16:MET:SD	2.82	0.52
27:BD:49:ILE:HD11	27:BD:52:ARG:HA	1.90	0.52
27:BD:166:GLN:CA	27:BD:166:GLN:NE2	2.73	0.52
28:BE:62:PRO:C	28:BE:64:LYS:N	2.65	0.52
29:BF:25:PRO:CB	29:BF:119:ARG:HD3	2.40	0.52
35:BO:13:ASN:C	35:BO:15:GLY:N	2.68	0.52
36:BP:23:PRO:HD2	36:BP:33:ARG:NH1	2.22	0.52
43:BW:92:ARG:HH11	43:BW:92:ARG:HG2	1.74	0.52
44:BX:64:LYS:NZ	44:BX:73:ARG:NH2	2.57	0.52
48:B1:60:PHE:HZ	48:B1:94:LEU:HD22	1.75	0.52
51:B4:16:CYS:HA	51:B4:33:VAL:HB	1.92	0.52
57:BA:1721:G:H5'	57:BA:1722:A:OP2	2.10	0.52
57:BA:2533:A:H2'	57:BA:2534:A:H5'	1.91	0.52
57:BA:2787:C:O2	57:BA:2787:C:H2'	2.09	0.52
1:Ab:79:ASP:C	1:Ab:81:VAL:N	2.65	0.52
1:Ab:98:LEU:O	1:Ab:101:MET:HG2	2.10	0.52
2:Ac:25:GLY:C	2:Ac:27:LYS:H	2.18	0.52
2:Ac:83:ARG:HG3	2:Ac:87:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:92:ALA:HB2	2:Ac:99:VAL:HG21	1.92	0.52
3:Ad:29:PRO:C	3:Ad:30:LYS:HG2	2.35	0.52
4:Ae:82:VAL:HG21	4:Ae:138:ALA:HA	1.91	0.52
8:Ai:24:GLY:HA2	8:Ai:59:PHE:O	2.09	0.52
8:Ai:43:ALA:O	8:Ai:45:ALA:N	2.43	0.52
13:An:27:CYS:SG	13:An:27:CYS:O	2.68	0.52
16:Aq:68:ARG:NH1	22:Aa:277:C:H5'	2.24	0.52
19:At:16:HIS:O	19:At:19:SER:HB3	2.10	0.52
19:At:26:ASN:HB2	19:At:71:THR:HG23	1.92	0.52
22:Aa:997:U:H2'	22:Aa:998:G:H8	1.71	0.52
30:AG:106:LEU:CA	30:AG:110:ALA:HB3	2.40	0.52
32:AI:37:VAL:HG12	32:AI:38:LEU:N	2.24	0.52
36:AP:125:VAL:O	36:AP:145:PRO:HD2	2.09	0.52
37:AQ:67:ARG:HH11	37:AQ:67:ARG:HG2	1.73	0.52
37:AQ:109:VAL:CG1	37:AQ:113:GLN:HB3	2.39	0.52
38:AR:26:LYS:HE2	38:AR:71:GLN:H	1.74	0.52
44:AX:53:LYS:H	44:AX:82:GLN:HB3	1.74	0.52
47:A0:51:VAL:CG2	47:A0:81:VAL:HG23	2.38	0.52
53:A6:6:ARG:N	53:A6:6:ARG:HD2	2.25	0.52
57:AA:154(A):C:H3'	57:AA:155:U:C5'	2.40	0.52
57:AA:156:U:H2'	57:AA:156:U:O2	2.08	0.52
57:AA:2777:G:H5"	57:AA:2778:A:C5'	2.40	0.52
1:Bb:17:PHE:HD1	1:Bb:44:LEU:HD11	1.74	0.52
2:Bc:163:ALA:CB	22:Ba:1056:U:H5'	2.40	0.52
3:Bd:18:LYS:HE2	3:Bd:31:CYS:CB	2.38	0.52
9:Bj:41:PRO:HB3	22:Ba:1150:U:H4'	1.91	0.52
9:Bj:53:PRO:HA	13:Bn:42:ILE:HD11	1.92	0.52
10:Bk:79:SER:HB2	10:Bk:106:LYS:CD	2.39	0.52
14:Bo:33:THR:HG21	14:Bo:85:LEU:CD2	2.40	0.52
15:Bp:28:ARG:HG2	15:Bp:28:ARG:NH1	2.22	0.52
22:Ba:377:G:H2'	22:Ba:378:G:H8	1.75	0.52
22:Ba:762:C:H2'	22:Ba:763:G:C8	2.45	0.52
22:Ba:1438:G:H2'	22:Ba:1439:C:H6	1.73	0.52
25:Bw:2:G:H2'	25:Bw:3:C:H6	1.75	0.52
27:BD:139:GLY:O	27:BD:164:GLN:HG3	2.10	0.52
27:BD:222:ARG:HD3	57:BA:1828:G:O6	2.09	0.52
27:BD:227:ASN:HB3	27:BD:228:PRO:HD2	1.92	0.52
32:BI:72:LEU:O	32:BI:138:ILE:HD12	2.10	0.52
32:BI:83:ALA:HB1	32:BI:88:ILE:HA	1.92	0.52
42:BV:46:VAL:HG22	42:BV:47:VAL:N	2.18	0.52
57:BA:142:A:H5"	57:BA:142(A):C:H5	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:633:A:C2'	57:BA:634:C:H5'	2.39	0.52
57:BA:1001:A:H2'	57:BA:1002:G:O4'	2.10	0.52
57:BA:2134:A:H1'	57:BA:2159:G:N2	2.25	0.52
57:BA:2368:C:H2'	57:BA:2369:A:H8	1.73	0.52
57:BA:2591:C:H2'	57:BA:2592:G:C8	2.45	0.52
58:BB:71:C:H2'	58:BB:72:G:C8	2.44	0.52
2:Ac:6:HIS:CG	13:An:49:HIS:HB3	2.45	0.52
2:Ac:15:THR:HG23	2:Ac:181:ASN:HA	1.92	0.52
3:Ad:173:TRP:O	3:Ad:186:LEU:HB2	2.08	0.52
6:Ag:78:ARG:HG3	22:Aa:1381:U:O2	2.10	0.52
9:Aj:47:PHE:O	9:Aj:62:HIS:HB2	2.10	0.52
10:Ak:102:GLY:C	10:Ak:103:LEU:HD22	2.35	0.52
12:Am:30:ALA:C	12:Am:32:GLU:N	2.68	0.52
15:Ap:20:VAL:HG21	15:Ap:32:TYR:CD2	2.45	0.52
18:As:32:LYS:HA	18:As:50:ALA:HB3	1.92	0.52
22:Aa:423:G:C2'	22:Aa:424:G:H5'	2.39	0.52
22:Aa:1021:G:N2	22:Aa:1022:G:H1'	2.25	0.52
22:Aa:1239:A:H62	22:Aa:1299:A:N6	2.00	0.52
26:AC:23:ILE:HG22	26:AC:23:ILE:O	2.09	0.52
27:AD:11:PRO:C	27:AD:13:ARG:N	2.64	0.52
27:AD:109:ASP:HB2	27:AD:197:GLY:HA2	1.90	0.52
28:AE:105:THR:HG21	28:AE:164:ARG:NH1	2.24	0.52
31:AH:30:LYS:HB2	31:AH:79:VAL:HA	1.92	0.52
32:AI:126:TYR:H	32:AI:140:LEU:CD2	2.23	0.52
35:AO:24:VAL:HA	35:AO:39:ILE:HG22	1.90	0.52
36:AP:17:LYS:C	36:AP:19:VAL:N	2.66	0.52
36:AP:83:VAL:HG11	36:AP:112:LEU:CD2	2.38	0.52
40:AT:47:GLY:HA3	40:AT:63:VAL:CG1	2.40	0.52
40:AT:57:PHE:CG	40:AT:58:ASN:N	2.78	0.52
43:AW:34:ASN:ND2	52:A5:39:MET:CB	2.71	0.52
45:AY:15:VAL:HG12	45:AY:16:ALA:N	2.25	0.52
45:AY:36:ALA:HB1	45:AY:67:LEU:O	2.10	0.52
49:A2:12:GLU:O	49:A2:16:LEU:HG	2.10	0.52
51:A4:51:ASP:OD2	51:A4:52:THR:N	2.43	0.52
55:A8:6:THR:HG21	55:A8:63:PRO:HD3	1.92	0.52
57:AA:531:C:OP1	57:AA:561:G:N1	2.43	0.52
57:AA:795:C:H2'	57:AA:796:C:C6	2.45	0.52
57:AA:1280:G:H3'	57:AA:1281:G:H5"	1.92	0.52
57:AA:2538:C:O2'	57:AA:2539:C:H5'	2.09	0.52
58:AB:44:G:C2	58:AB:48:A:C2	2.98	0.52
3:Bd:31:CYS:C	3:Bd:33:MET:N	2.64	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:124:GLN:HE22	22:Ba:942:G:H21	1.58	0.52
11:Bl:83:VAL:CG1	11:Bl:100:ILE:HG23	2.39	0.52
12:Bm:116:THR:O	12:Bm:117:VAL:C	2.52	0.52
15:Bp:27:LYS:HG2	22:Ba:111:G:H5"	1.91	0.52
16:Bq:59:ILE:HG22	16:Bq:71:PHE:CD1	2.46	0.52
18:Bs:34:TRP:O	22:Ba:1220:G:H5'	2.10	0.52
18:Bs:61:TYR:CE2	18:Bs:63:THR:HB	2.44	0.52
26:BC:2:PRO:HG2	26:BC:3:LYS:H	1.74	0.52
28:BE:105:THR:HG21	28:BE:164:ARG:NH1	2.24	0.52
28:BE:120:TRP:CD1	28:BE:155:LYS:HB3	2.45	0.52
29:BF:116:ASP:OD2	36:BP:5:ASP:N	2.43	0.52
29:BF:132:VAL:CG2	29:BF:133:ASN:H	2.22	0.52
30:BG:41:GLN:HB3	30:BG:43:LEU:HD13	1.91	0.52
32:BI:79:ILE:HG22	32:BI:81:VAL:CG1	2.30	0.52
41:BU:31:SER:O	41:BU:33:ARG:N	2.43	0.52
42:BV:47:VAL:HB	42:BV:49:THR:O	2.09	0.52
48:B1:18:ILE:HG12	48:B1:37:ILE:HG12	1.91	0.52
48:B1:25:LYS:NZ	57:BA:2396:G:OP1	2.43	0.52
48:B1:68:PRO:C	48:B1:70:VAL:H	2.17	0.52
52:B5:40:LYS:CD	52:B5:46:CYS:HB3	2.40	0.52
52:B5:49:CYS:O	52:B5:51:TYR:N	2.43	0.52
53:B6:8:LYS:NZ	57:BA:2285:C:H5	2.07	0.52
57:BA:523:C:O2'	57:BA:524:U:H5'	2.09	0.52
57:BA:2223:G:H2'	57:BA:2224:G:H5'	1.91	0.52
57:BA:2282:G:O2'	57:BA:2283:C:OP2	2.27	0.52
58:BB:44:G:C2	58:BB:48:A:C2	2.98	0.52
3:Ad:31:CYS:O	3:Ad:32:ALA:HB3	2.10	0.51
4:Ae:6:PHE:HD1	4:Ae:63:ARG:NH1	2.07	0.51
4:Ae:72:GLN:NE2	4:Ae:144:THR:HG22	2.25	0.51
5:Af:4:TYR:HD1	5:Af:92:LYS:HA	1.75	0.51
7:Ah:10:LEU:HD12	7:Ah:85:ARG:HB2	1.92	0.51
11:Al:83:VAL:CG1	11:Al:100:ILE:HG23	2.40	0.51
13:An:4:LYS:C	13:An:6:LEU:H	2.18	0.51
14:Ao:83:GLU:C	14:Ao:85:LEU:H	2.18	0.51
17:Ar:43:PHE:C	17:Ar:44:LEU:HD12	2.35	0.51
18:As:43:GLU:O	18:As:44:MET:HE3	2.10	0.51
18:As:45:VAL:HA	18:As:62:ILE:O	2.10	0.51
22:Aa:70:G:H1	22:Aa:99:U:H3	1.58	0.51
22:Aa:83:U:H2'	22:Aa:84:U:C5	2.45	0.51
22:Aa:221:C:H2'	22:Aa:222:U:C6	2.42	0.51
22:Aa:560:U:O2'	22:Aa:561:U:OP2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:983:A:O2'	22:Aa:1049:U:O2'	2.25	0.51
22:Aa:1157:A:H5'	22:Aa:1158:C:C5	2.44	0.51
22:Aa:1342:C:H2'	22:Aa:1343:G:C8	2.45	0.51
27:AD:13:ARG:NH1	27:AD:16:MET:SD	2.82	0.51
27:AD:70:TRP:C	27:AD:70:TRP:CD1	2.88	0.51
28:AE:80:GLU:CD	57:AA:2636:U:H4'	2.34	0.51
31:AH:105:LEU:H	31:AH:105:LEU:CD2	2.20	0.51
32:AI:91:SER:OG	32:AI:92:VAL:N	2.43	0.51
36:AP:59:LEU:O	36:AP:59:LEU:HD23	2.10	0.51
36:AP:71:VAL:HG12	57:AA:389:G:H1	1.74	0.51
37:AQ:45:GLN:CD	37:AQ:45:GLN:H	2.16	0.51
43:AW:92:ARG:HG2	43:AW:92:ARG:HH11	1.76	0.51
44:AX:12:VAL:HG11	44:AX:27:THR:OG1	2.10	0.51
45:AY:18:GLY:C	45:AY:20:TYR:N	2.66	0.51
55:A8:4:MET:HE2	57:AA:593:G:O4'	2.09	0.51
55:A8:23:VAL:CG1	55:A8:46:ARG:HB3	2.40	0.51
57:AA:1327:C:H2'	57:AA:1328:G:O4'	2.10	0.51
57:AA:1917:U:O2'	57:AA:1918:A:H5'	2.10	0.51
57:AA:2506:U:H4'	57:AA:2507:C:OP1	2.11	0.51
57:AA:2762:G:H2'	57:AA:2763:G:H5'	1.92	0.51
57:AA:2803:C:H2'	57:AA:2804:C:C6	2.46	0.51
2:Bc:15:THR:HG23	2:Bc:181:ASN:HA	1.92	0.51
3:Bd:33:MET:C	3:Bd:35:ARG:H	2.18	0.51
4:Be:55:VAL:O	4:Be:58:ALA:HB3	2.09	0.51
4:Be:116:THR:HG22	4:Be:117:ASP:CG	2.35	0.51
5:Bf:6:VAL:HG13	5:Bf:90:VAL:HG22	1.92	0.51
9:Bj:3:LYS:HZ2	9:Bj:76:ASN:HA	1.73	0.51
9:Bj:7:LYS:CD	9:Bj:71:LEU:HD13	2.40	0.51
13:Bn:15:LYS:HB3	13:Bn:16:PHE:CD2	2.45	0.51
18:Bs:36:ARG:HD3	22:Ba:1221:G:P	2.49	0.51
19:Bt:93:GLU:O	19:Bt:95:ALA:N	2.43	0.51
22:Ba:140:A:O2'	22:Ba:141:A:H5'	2.10	0.51
22:Ba:797:C:O2'	22:Ba:798:G:H5'	2.10	0.51
22:Ba:814:A:H2'	22:Ba:816:A:H5"	1.92	0.51
22:Ba:1157:A:H5'	22:Ba:1158:C:C5	2.45	0.51
31:BH:43:VAL:O	31:BH:43:VAL:HG23	2.09	0.51
31:BH:152:ARG:O	31:BH:152:ARG:HG3	2.10	0.51
35:BO:103:ALA:HB1	35:BO:105:GLU:OE1	2.10	0.51
37:BQ:21:THR:O	37:BQ:23:GLY:N	2.43	0.51
39:BS:81:GLY:O	39:BS:83:LYS:N	2.43	0.51
41:BU:91:ASP:O	41:BU:92:ARG:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BU:95:LEU:HD13	42:BV:4:ILE:HG23	1.92	0.51
43:BW:50:VAL:HG13	43:BW:105:VAL:HG21	1.91	0.51
45:BY:7:VAL:HG21	45:BY:8:LYS:NZ	2.24	0.51
51:B4:2:LYS:CG	58:BB:40:U:O4	2.58	0.51
55:B8:48:PHE:C	55:B8:49:VAL:HG13	2.35	0.51
57:BA:2865:U:H3'	57:BA:2866:U:O2	2.10	0.51
1:Ab:76:GLN:O	1:Ab:208:ILE:HG12	2.10	0.51
5:Af:53:ALA:HB3	5:Af:86:ARG:NH1	2.25	0.51
9:Aj:22:LYS:HD2	9:Aj:22:LYS:C	2.35	0.51
11:Al:22:SER:C	11:Al:24:VAL:N	2.68	0.51
11:Al:51:ALA:O	11:Al:52:LEU:HD23	2.10	0.51
19:At:13:LEU:HD12	19:At:13:LEU:N	2.25	0.51
21:Ay:53:ILE:HG22	21:Ay:53:ILE:O	2.10	0.51
21:Ay:81:ARG:C	21:Ay:83:ARG:N	2.66	0.51
27:AD:44:ASN:HD22	27:AD:48:ARG:C	2.18	0.51
27:AD:63:ARG:HH22	57:AA:1568:G:P	2.33	0.51
28:AE:120:TRP:CD1	28:AE:155:LYS:HB3	2.45	0.51
32:AI:75:LEU:O	32:AI:76:THR:O	2.29	0.51
33:AJ:102:LYS:HA	33:AJ:106:GLN:CB	2.39	0.51
34:AN:23:LEU:HB2	34:AN:60:ILE:CG2	2.40	0.51
34:AN:35:ARG:O	34:AN:37:LYS:N	2.43	0.51
35:AO:13:ASN:C	35:AO:15:GLY:H	2.17	0.51
36:AP:140:ALA:O	36:AP:141:ALA:HB3	2.10	0.51
39:AS:92:TYR:CG	39:AS:93:LYS:N	2.75	0.51
39:AS:93:LYS:O	39:AS:94:TYR:C	2.54	0.51
44:AX:66:LEU:O	44:AX:66:LEU:HD23	2.11	0.51
45:AY:80:GLY:O	45:AY:81:LYS:HB3	2.09	0.51
50:A3:54:VAL:HG12	50:A3:55:ARG:N	2.24	0.51
57:AA:272(D):G:H1	57:AA:364:C:N4	2.08	0.51
57:AA:445:C:O2'	57:AA:446:G:H5'	2.11	0.51
57:AA:528:A:C2	57:AA:2043:C:C5'	2.93	0.51
57:AA:2022:U:O2'	57:AA:2617:C:H5'	2.11	0.51
57:AA:2071:A:H2'	57:AA:2072:G:C8	2.45	0.51
57:AA:2512:C:H2'	57:AA:2513:G:O4'	2.09	0.51
57:AA:2567:G:H2'	57:AA:2568:C:H6	1.74	0.51
58:AB:71:C:H2'	58:AB:72:G:C8	2.45	0.51
2:Bc:129:ALA:HB3	2:Bc:132:ARG:HB3	1.92	0.51
2:Bc:179:ARG:HG3	2:Bc:179:ARG:HH11	1.75	0.51
3:Bd:190:ASP:O	3:Bd:194:LEU:HD23	2.09	0.51
4:Be:82:VAL:HG21	4:Be:138:ALA:HA	1.91	0.51
6:Bg:89:MET:HE1	6:Bg:156:TRP:OXT	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bh:54:ASP:C	7:Bh:56:LYS:H	2.18	0.51
8:Bi:120:ARG:NH1	22:Ba:1346:A:H5'	2.25	0.51
11:Bl:24:VAL:HG13	11:Bl:98:TYR:CE2	2.45	0.51
16:Bq:44:ALA:HA	16:Bq:71:PHE:O	2.10	0.51
18:Bs:45:VAL:HA	18:Bs:62:ILE:O	2.10	0.51
21:By:67:ILE:HB	21:By:72:VAL:CG1	2.28	0.51
22:Ba:82:U:H2'	22:Ba:83:U:C6	2.44	0.51
22:Ba:142:G:H2'	22:Ba:143:A:C8	2.45	0.51
22:Ba:300:A:H2'	22:Ba:301:G:O4'	2.10	0.51
22:Ba:1111:A:O2'	22:Ba:1112:C:H5'	2.11	0.51
29:BF:28:ILE:CG2	29:BF:116:ASP:HB2	2.34	0.51
32:BI:72:LEU:O	32:BI:138:ILE:CD1	2.59	0.51
34:BN:94:HIS:N	34:BN:95:PRO:CD	2.72	0.51
36:BP:47:ASP:HB3	36:BP:48:PRO:HA	1.92	0.51
39:BS:89:ARG:O	39:BS:90:GLY:O	2.27	0.51
40:BT:57:PHE:O	40:BT:59:THR:N	2.44	0.51
53:B6:15:GLU:CD	53:B6:44:ARG:NH2	2.67	0.51
55:B8:32:LEU:HB3	55:B8:36:LYS:NZ	2.24	0.51
57:BA:469:G:C2'	57:BA:470:A:H5"	2.40	0.51
57:BA:1316:U:H2'	57:BA:1317:A:C8	2.46	0.51
57:BA:1784:A:H4'	57:BA:1785:A:O5'	2.10	0.51
57:BA:1993:U:H2'	57:BA:1994:C:O4'	2.10	0.51
1:Ab:32:ILE:HD11	1:Ab:40:HIS:CB	2.34	0.51
1:Ab:104:ASN:HB2	22:Aa:1074:G:C4'	2.41	0.51
3:Ad:31:CYS:O	3:Ad:31:CYS:SG	2.68	0.51
4:Ae:52:PRO:O	4:Ae:56:GLN:HB2	2.10	0.51
5:Af:62:TRP:C	5:Af:63:TYR:CD2	2.82	0.51
6:Ag:148:ASN:N	6:Ag:148:ASN:HD22	2.08	0.51
7:Ah:31:PHE:O	7:Ah:35:ILE:HG12	2.08	0.51
7:Ah:51:VAL:CG1	7:Ah:60:ARG:HB2	2.41	0.51
8:Ai:85:LEU:HD13	8:Ai:92:TYR:HD2	1.75	0.51
12:Am:85:GLY:O	12:Am:86:CYS:CB	2.59	0.51
12:Am:108:ARG:NH1	12:Am:113:PRO:O	2.43	0.51
13:An:13:THR:HG22	13:An:13:THR:O	2.09	0.51
13:An:32:SER:H	22:Aa:976:G:P	2.33	0.51
16:Aq:48:GLU:OE2	16:Aq:50:LYS:HD3	2.10	0.51
18:As:61:TYR:CE2	18:As:63:THR:HB	2.43	0.51
18:As:72:GLY:C	18:As:74:PHE:H	2.18	0.51
20:Au:4:GLY:CA	22:Aa:1305:G:H5'	2.39	0.51
22:Aa:97:G:O2'	22:Aa:98:G:H5"	2.10	0.51
22:Aa:692:U:O2	22:Aa:694:A:C8	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1174:G:O2'	22:Aa:1175:G:H5'	2.11	0.51
22:Aa:1216:G:O2'	22:Aa:1217:C:H5'	2.10	0.51
22:Aa:1490:C:H2'	22:Aa:1491:G:O4'	2.11	0.51
27:AD:70:TRP:CZ3	27:AD:146:GLU:OE2	2.63	0.51
27:AD:227:ASN:HB3	27:AD:228:PRO:HD2	1.92	0.51
28:AE:61:ARG:HD3	57:AA:2787:C:C1'	2.36	0.51
29:AF:125:LEU:HD23	29:AF:125:LEU:H	1.75	0.51
30:AG:57:ALA:HB2	30:AG:90:LEU:HD21	1.91	0.51
30:AG:86:MET:HG2	30:AG:86:MET:O	2.11	0.51
31:AH:88:LEU:HD22	31:AH:88:LEU:N	2.25	0.51
32:AI:91:SER:O	32:AI:92:VAL:HB	2.09	0.51
39:AS:41:ASP:OD2	39:AS:44:LYS:HG3	2.10	0.51
39:AS:99:LYS:C	39:AS:101:LEU:H	2.18	0.51
41:AU:108:GLU:CG	42:AV:44:LYS:HD3	2.41	0.51
42:AV:47:VAL:O	42:AV:48:GLY:C	2.53	0.51
46:AZ:16:SER:O	46:AZ:20:ARG:HB2	2.11	0.51
51:A4:13:ARG:HD3	51:A4:29:PRO:O	2.11	0.51
55:A8:4:MET:HG2	57:AA:592:G:O2'	2.11	0.51
57:AA:547:A:H1'	57:AA:548:A:N7	2.26	0.51
57:AA:637:A:H4'	57:AA:638:G:O5'	2.11	0.51
57:AA:1221(A):C:O2'	57:AA:1222:C:H5'	2.10	0.51
57:AA:2011:U:H2'	57:AA:2012:G:H5'	1.92	0.51
57:AA:2195:C:O2'	57:AA:2196:C:H5'	2.10	0.51
57:AA:2720:U:H3'	57:AA:2721:A:H8	1.75	0.51
2:Bc:103:VAL:HG12	2:Bc:104:GLN:N	2.25	0.51
4:Be:147:ASP:HA	4:Be:150:ARG:NH1	2.25	0.51
5:Bf:2:ARG:HD2	5:Bf:69:GLU:HB3	1.91	0.51
10:Bk:111:ASP:C	17:Br:84:LYS:HE2	2.35	0.51
12:Bm:2:ALA:CB	12:Bm:9:ILE:HG23	2.35	0.51
12:Bm:81:LEU:CD2	12:Bm:88:ARG:HE	2.23	0.51
16:Bq:68:ARG:HH12	22:Ba:277:C:C5'	2.24	0.51
22:Ba:346:G:OP1	40:BT:41:ARG:NH1	2.33	0.51
22:Ba:1012:U:H2'	22:Ba:1013:G:C8	2.45	0.51
22:Ba:1288:A:N1	22:Ba:1371:G:H1'	2.25	0.51
25:Bw:25:C:O2'	25:Bw:26:G:H5'	2.10	0.51
27:BD:34:VAL:CG2	27:BD:35:LYS:H	2.14	0.51
27:BD:46:GLN:N	27:BD:46:GLN:CD	2.68	0.51
28:BE:179:GLU:O	28:BE:180:ASN:HB2	2.09	0.51
29:BF:160:ASN:HD21	29:BF:162:LEU:HB2	1.74	0.51
30:BG:9:ARG:C	30:BG:11:TYR:H	2.19	0.51
35:BO:22:ILE:HB	35:BO:40:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:62:LEU:HG	57:BA:2394:C:P	2.49	0.51
36:BP:101:VAL:CB	36:BP:107:LYS:HA	2.27	0.51
45:BY:98:VAL:O	45:BY:98:VAL:HG12	2.11	0.51
46:BZ:180:VAL:O	46:BZ:182:LYS:N	2.43	0.51
48:B1:20:ARG:HG2	48:B1:20:ARG:NH1	2.16	0.51
48:B1:45:ASN:HD22	48:B1:46:LEU:N	2.08	0.51
54:B7:16:HIS:HA	54:B7:21:ARG:HH12	1.75	0.51
57:BA:1493:C:C4	57:BA:2206:G:O2'	2.63	0.51
57:BA:1602:U:H3'	57:BA:1603:A:C5'	2.40	0.51
57:BA:1889:A:O2'	57:BA:2087:G:H5'	2.11	0.51
57:BA:2697:G:H2'	57:BA:2698:U:O4'	2.10	0.51
1:Ab:118:LEU:HD11	1:Ab:141:GLU:OE1	2.10	0.51
2:Ac:134:ILE:HD11	2:Ac:153:VAL:HG21	1.91	0.51
4:Ae:101:ILE:HD13	4:Ae:101:ILE:N	2.25	0.51
5:Af:97:PHE:N	17:Ar:30:ASP:OD1	2.44	0.51
6:Ag:85:TYR:HD1	6:Ag:154:TYR:HE1	1.55	0.51
7:Ah:13:ILE:O	7:Ah:17:THR:HG23	2.10	0.51
8:Ai:21:PRO:HA	8:Ai:58:HIS:O	2.11	0.51
9:Aj:22:LYS:C	9:Aj:24:VAL:H	2.19	0.51
10:Ak:111:ASP:C	17:Ar:84:LYS:HE2	2.35	0.51
11:Al:6:THR:OG1	11:Al:9:GLN:HG3	2.10	0.51
11:Al:31:PRO:HD2	22:Aa:363:A:C6	2.46	0.51
11:Al:32:PHE:HD1	11:Al:86:ARG:HA	1.74	0.51
14:Ao:32:LEU:O	14:Ao:33:THR:C	2.53	0.51
22:Aa:585:G:N3	22:Aa:879:C:H4'	2.26	0.51
22:Aa:615:C:H2'	22:Aa:616:G:O4'	2.10	0.51
22:Aa:1152:A:H2'	22:Aa:1153:C:C6	2.45	0.51
24:Av:4:G:O2'	24:Av:5:G:H8	1.92	0.51
26:AC:48:LEU:HD12	26:AC:48:LEU:N	2.26	0.51
27:AD:132:PRO:HD3	27:AD:190:TYR:CE2	2.44	0.51
27:AD:168:ARG:O	27:AD:169:GLU:HB2	2.10	0.51
30:AG:85:GLY:C	30:AG:87:PRO:CD	2.83	0.51
30:AG:101:ILE:HG22	30:AG:105:LYS:NZ	2.26	0.51
31:AH:80:SER:O	31:AH:81:GLU:HB2	2.10	0.51
31:AH:94:TYR:CD2	31:AH:107:VAL:HB	2.46	0.51
31:AH:102:ALA:HA	31:AH:117:PRO:CD	2.41	0.51
31:AH:158:HIS:CE1	31:AH:169:VAL:C	2.89	0.51
32:AI:35:LEU:O	32:AI:36:ALA:HB2	2.10	0.51
40:AT:70:VAL:CG1	40:AT:71:GLY:N	2.72	0.51
42:AV:2:PHE:HB2	42:AV:42:GLY:HA2	1.92	0.51
48:A1:3:LYS:CG	48:A1:4:VAL:H	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:A1:41:ARG:HD3	48:A1:43:TYR:CZ	2.46	0.51
49:A2:25:VAL:HG11	49:A2:61:LEU:HD21	1.91	0.51
53:A6:26:ASN:OD1	53:A6:27:LYS:N	2.44	0.51
57:AA:228:A:H2'	57:AA:230:U:O4'	2.10	0.51
57:AA:1040:C:HO2'	57:AA:1041:C:C5'	2.23	0.51
57:AA:1260:G:O2'	57:AA:1261:C:H5'	2.10	0.51
57:AA:1504:C:O2'	57:AA:1505:C:C5'	2.58	0.51
57:AA:2368:C:H2'	57:AA:2369:A:H8	1.75	0.51
57:AA:2801(A):A:H4'	57:AA:2802:G:H2'	1.91	0.51
3:Bd:17:VAL:CG1	3:Bd:18:LYS:N	2.73	0.51
3:Bd:31:CYS:O	3:Bd:32:ALA:HB3	2.11	0.51
5:Bf:4:TYR:HD1	5:Bf:92:LYS:HA	1.75	0.51
5:Bf:7:ASN:N	5:Bf:7:ASN:HD22	2.08	0.51
5:Bf:54:LYS:O	5:Bf:56:PRO:HD3	2.10	0.51
7:Bh:30:ARG:NH1	7:Bh:30:ARG:CB	2.72	0.51
7:Bh:44:PHE:HA	7:Bh:79:VAL:HG11	1.92	0.51
7:Bh:91:ARG:HH11	7:Bh:91:ARG:CG	2.23	0.51
11:Bl:32:PHE:CB	11:Bl:84:LEU:HD21	2.40	0.51
19:Bt:16:HIS:O	19:Bt:19:SER:HB3	2.11	0.51
22:Ba:224:C:H2'	22:Ba:225:C:C6	2.45	0.51
22:Ba:385:C:O2'	22:Ba:386:C:H5'	2.10	0.51
22:Ba:556:C:O2'	22:Ba:557:G:H5'	2.11	0.51
22:Ba:759:A:C2'	22:Ba:760:G:H5'	2.39	0.51
22:Ba:1004:A:H8	22:Ba:1036:G:O6	1.93	0.51
22:Ba:1421:G:C2'	22:Ba:1422:G:H5'	2.40	0.51
22:Ba:1498:U:H4'	22:Ba:1519:A:C2	2.45	0.51
28:BE:61:ARG:NH2	57:BA:2811:G:H4'	2.25	0.51
30:BG:71:THR:CG2	30:BG:72:ARG:N	2.73	0.51
32:BI:107:VAL:O	32:BI:109:ILE:CD1	2.58	0.51
33:BJ:83:TYR:O	33:BJ:84:GLU:CB	2.58	0.51
33:BJ:111:LEU:O	33:BJ:112:LEU:O	2.27	0.51
34:BN:3:THR:C	34:BN:4:TYR:CG	2.85	0.51
34:BN:30:ILE:HG22	34:BN:34:LEU:CD2	2.40	0.51
36:BP:7:ARG:CA	36:BP:7:ARG:NH1	2.70	0.51
36:BP:16:ARG:O	36:BP:16:ARG:NH1	2.35	0.51
37:BQ:137:TYR:HE2	46:BZ:81:ARG:NH1	2.09	0.51
38:BR:38:VAL:O	38:BR:41:ALA:HB3	2.11	0.51
40:BT:12:SER:O	40:BT:13:ARG:NH2	2.43	0.51
40:BT:113:LYS:HE3	57:BA:1754:C:OP2	2.10	0.51
40:BT:117:ASP:O	40:BT:121:ILE:HG13	2.10	0.51
48:B1:86:SER:O	48:B1:89:GLU:N	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:8:LEU:HD13	50:B3:31:LEU:HA	1.92	0.51
51:B4:51:ASP:OD2	51:B4:52:THR:N	2.43	0.51
52:B5:41:PRO:HG2	52:B5:44:THR:OG1	2.10	0.51
53:B6:10:LEU:HD23	53:B6:10:LEU:N	2.17	0.51
55:B8:6:THR:HG22	55:B8:61:LEU:CD1	2.40	0.51
57:BA:145:G:C3'	57:BA:146:G:H5"	2.39	0.51
57:BA:528:A:H2	57:BA:2043:C:C5'	2.23	0.51
57:BA:1826:G:H2'	57:BA:1827:C:H6	1.75	0.51
57:BA:1999:C:O2'	57:BA:2000:G:H5'	2.11	0.51
57:BA:2147:G:H2'	57:BA:2148:G:C4'	2.40	0.51
58:BB:20:C:C3'	58:BB:21:G:H5"	2.40	0.51
58:BB:77:U:C2'	58:BB:78:A:H5'	2.40	0.51
1:Ab:48:MET:HE2	1:Ab:49:GLU:N	2.26	0.51
1:Ab:72:GLY:HA2	1:Ab:165:VAL:CG2	2.40	0.51
2:Ac:77:ILE:C	2:Ac:83:ARG:HB3	2.35	0.51
3:Ad:194:LEU:N	3:Ad:194:LEU:HD22	2.26	0.51
11:Al:34:ARG:O	11:Al:61:THR:HG23	2.10	0.51
11:Al:75:HIS:CD2	11:Al:77:LEU:HB2	2.43	0.51
12:Am:81:LEU:HD22	12:Am:88:ARG:HE	1.74	0.51
16:Aq:98:LEU:O	16:Aq:99:SER:O	2.29	0.51
21:Ay:94:ILE:O	21:Ay:95:LEU:OXT	2.28	0.51
25:Aw:11:A:O2'	25:Aw:12:G:H5'	2.09	0.51
27:AD:10:THR:HG23	27:AD:13:ARG:CB	2.41	0.51
28:AE:14:ILE:HG13	28:AE:15:PHE:N	2.26	0.51
28:AE:48:GLN:C	28:AE:49:LEU:HD23	2.36	0.51
30:AG:160:VAL:CG1	30:AG:161:THR:H	2.23	0.51
34:AN:103:VAL:HG11	34:AN:120:LEU:HD12	1.92	0.51
36:AP:39:LYS:HD3	36:AP:40:SER:H	1.75	0.51
36:AP:47:ASP:OD1	36:AP:49:ARG:HB2	2.11	0.51
36:AP:50:ARG:HD3	55:A8:7:HIS:HD2	1.74	0.51
38:AR:38:VAL:CG1	38:AR:42:LYS:HD2	2.41	0.51
39:AS:24:LEU:HB3	39:AS:85:VAL:CG1	2.41	0.51
39:AS:87:PHE:HB2	39:AS:106:ARG:HD3	1.92	0.51
40:AT:106:SER:O	40:AT:107:ASP:CB	2.58	0.51
41:AU:17:ILE:HG23	41:AU:39:LEU:HD12	1.93	0.51
41:AU:92:ARG:CB	42:AV:11:GLN:NE2	2.73	0.51
41:AU:111:GLU:OE2	41:AU:111:GLU:HA	2.10	0.51
41:AU:115:ALA:C	41:AU:117:GLN:H	2.19	0.51
42:AV:76:LYS:HB2	42:AV:81:TYR:HB3	1.92	0.51
44:AX:10:ALA:O	44:AX:28:PHE:HB3	2.10	0.51
47:A0:25:ARG:HH11	47:A0:25:ARG:HG2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:A1:44:PRO:HB2	48:A1:46:LEU:CD1	2.41	0.51
48:A1:94:LEU:H	48:A1:94:LEU:HD22	1.75	0.51
50:A3:1:MET:O	50:A3:3:ARG:N	2.40	0.51
53:A6:41:PRO:HG2	53:A6:43:CYS:O	2.09	0.51
53:A6:45:LYS:HE3	57:AA:2371:G:H5"	1.91	0.51
54:A7:16:HIS:HA	54:A7:21:ARG:HH12	1.74	0.51
57:AA:102:G:OP1	57:AA:102:G:C4'	2.58	0.51
57:AA:336:C:H2'	57:AA:337:C:H6	1.75	0.51
57:AA:391:G:O2'	57:AA:410:G:OP1	2.27	0.51
57:AA:676:A:H8	57:AA:2069:G:N2	1.96	0.51
57:AA:2134:A:H1'	57:AA:2159:G:N2	2.26	0.51
57:AA:2321:G:N3	57:AA:2321:G:H2'	2.25	0.51
57:AA:2533:A:H2'	57:AA:2534:A:H5'	1.93	0.51
1:Bb:48:MET:HA	1:Bb:51:LEU:HD12	1.92	0.51
2:Bc:74:GLY:C	2:Bc:76:VAL:H	2.19	0.51
2:Bc:84:ILE:O	2:Bc:88:ARG:HG3	2.10	0.51
2:Bc:138:VAL:O	2:Bc:138:VAL:HG12	2.09	0.51
4:Be:20:GLN:O	4:Be:23:GLY:O	2.29	0.51
6:Bg:25:ALA:HA	6:Bg:28:ASN:ND2	2.26	0.51
7:Bh:6:ILE:O	7:Bh:7:ALA:C	2.53	0.51
9:Bj:22:LYS:C	9:Bj:22:LYS:HD2	2.35	0.51
9:Bj:22:LYS:C	9:Bj:24:VAL:H	2.19	0.51
12:Bm:29:ARG:NH1	12:Bm:64:TRP:CD2	2.79	0.51
12:Bm:110:ARG:HD2	22:Ba:1308:U:H5'	1.92	0.51
13:Bn:16:PHE:CD2	13:Bn:16:PHE:N	2.79	0.51
14:Bo:26:GLU:HG3	14:Bo:77:ARG:HH11	1.76	0.51
20:Bu:6:ARG:NH1	20:Bu:15:ARG:HH22	2.08	0.51
21:By:32:GLU:OE2	22:Ba:519:C:H4'	2.10	0.51
22:Ba:16:A:N1	22:Ba:919:A:H2	2.09	0.51
22:Ba:1053:G:N7	22:Ba:1200:C:H5"	2.25	0.51
27:BD:58:HIS:CD2	27:BD:59:LYS:N	2.78	0.51
28:BE:95:ILE:HD13	28:BE:95:ILE:H	1.76	0.51
29:BF:68:LYS:O	57:BA:2060:A:OP1	2.28	0.51
29:BF:178:PRO:HB2	29:BF:201:VAL:CG1	2.32	0.51
31:BH:9:ILE:C	31:BH:9:ILE:CD1	2.83	0.51
31:BH:20:ALA:HB1	31:BH:21:PRO:HD2	1.91	0.51
32:BI:29:TYR:C	32:BI:32:PRO:HD2	2.35	0.51
39:BS:87:PHE:HB2	39:BS:106:ARG:HD3	1.93	0.51
41:BU:101:ARG:HH11	41:BU:101:ARG:CB	2.16	0.51
45:BY:6:HIS:CD2	45:BY:6:HIS:N	2.76	0.51
46:BZ:141:VAL:C	46:BZ:144:LEU:HD21	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:49:LYS:H	47:B0:80:HIS:HD1	1.58	0.51
49:B2:55:ARG:HH21	49:B2:55:ARG:HG3	1.75	0.51
53:B6:43:CYS:O	53:B6:44:ARG:CB	2.59	0.51
53:B6:45:LYS:HG2	57:BA:2371:G:C4'	2.36	0.51
55:B8:50:LEU:CG	55:B8:51:ALA:N	2.73	0.51
57:BA:1313:U:H2'	57:BA:1610:A:C2	2.45	0.51
57:BA:1316:U:H2'	57:BA:1317:A:H8	1.73	0.51
57:BA:1854:A:H2'	57:BA:1855:G:O4'	2.10	0.51
57:BA:2061:G:H5"	57:BA:2503:A:C2	2.45	0.51
57:BA:2512:C:H2'	57:BA:2513:G:O4'	2.10	0.51
57:BA:2789:C:N3	57:BA:2894:G:O6	2.43	0.51
1:Ab:17:PHE:HD1	1:Ab:44:LEU:HD11	1.76	0.51
2:Ac:39:ILE:O	2:Ac:43:LEU:HG	2.10	0.51
7:Ah:122:ARG:HH11	7:Ah:122:ARG:CB	2.23	0.51
9:Aj:36:GLY:HA3	22:Aa:1123:A:H5"	1.91	0.51
9:Aj:75:ILE:HG13	9:Aj:76:ASN:N	2.26	0.51
11:Al:5:PRO:HD3	22:Aa:568:G:O6	2.11	0.51
11:Al:7:ILE:O	11:Al:11:VAL:HG23	2.10	0.51
15:Ap:20:VAL:CG2	15:Ap:21:VAL:N	2.74	0.51
22:Aa:1169:A:H2'	22:Aa:1170:A:H8	1.74	0.51
22:Aa:1408:A:H2'	22:Aa:1409:C:C6	2.45	0.51
26:AC:219:MET:O	26:AC:220:GLY:O	2.28	0.51
28:AE:11:MET:CB	28:AE:24:THR:HA	2.41	0.51
29:AF:62:ARG:HG2	29:AF:63:LYS:N	2.25	0.51
29:AF:135:LYS:O	29:AF:137:LYS:N	2.43	0.51
30:AG:31:VAL:H	30:AG:33:ARG:HH11	1.58	0.51
31:AH:121:ILE:HD12	31:AH:144:VAL:HG21	1.92	0.51
31:AH:154:PRO:HB3	31:AH:163:TYR:CZ	2.46	0.51
32:AI:68:LEU:HD23	32:AI:68:LEU:C	2.35	0.51
32:AI:91:SER:HB3	32:AI:121:LYS:HD3	1.92	0.51
33:AJ:88:ALA:C	33:AJ:90:ALA:H	2.18	0.51
36:AP:105:LEU:HG	57:AA:626:U:C2	2.45	0.51
37:AQ:134:ARG:CD	46:AZ:122:ARG:HH21	2.23	0.51
39:AS:89:ARG:HG2	39:AS:92:TYR:HA	1.91	0.51
42:AV:47:VAL:HB	42:AV:49:THR:O	2.11	0.51
43:AW:75:TYR:O	43:AW:75:TYR:HD2	1.94	0.51
45:AY:32:PRO:O	45:AY:33:LYS:C	2.53	0.51
45:AY:96:ILE:HG22	45:AY:97:ARG:N	2.25	0.51
46:AZ:128:VAL:CG2	46:AZ:132:ASN:HB2	2.28	0.51
51:A4:2:LYS:CG	58:AB:40:U:O4	2.59	0.51
51:A4:16:CYS:HA	51:A4:33:VAL:HB	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:A5:3:LYS:HB3	57:AA:747:U:C4	2.45	0.51
57:AA:252:G:O2'	57:AA:253:C:H5'	2.11	0.51
57:AA:1111:A:O2'	57:AA:1112:G:H4'	2.11	0.51
57:AA:1464:C:HO2'	57:AA:1528:A:H8	1.48	0.51
57:AA:2122:U:H2'	57:AA:2123:G:C8	2.43	0.51
57:AA:2400:G:N2	57:AA:2417:C:C2	2.78	0.51
1:Bb:216:SER:C	1:Bb:218:ALA:N	2.66	0.51
3:Bd:23:GLY:HA3	3:Bd:112:VAL:HG22	1.92	0.51
4:Be:73:ASN:ND2	4:Be:73:ASN:N	2.59	0.51
6:Bg:67:GLU:OE2	6:Bg:67:GLU:HA	2.10	0.51
10:Bk:67:ASP:O	10:Bk:71:LYS:HG3	2.11	0.51
12:Bm:30:ALA:O	12:Bm:32:GLU:N	2.37	0.51
12:Bm:111:LYS:O	12:Bm:112:GLY:C	2.54	0.51
18:Bs:49:ILE:O	18:Bs:60:VAL:HG12	2.10	0.51
21:By:82:GLU:OE2	22:Ba:1198:G:OP1	2.29	0.51
22:Ba:9:G:H2'	22:Ba:10:A:C8	2.44	0.51
22:Ba:83:U:H2'	22:Ba:84:U:C5	2.45	0.51
25:Bw:38:A:H2'	25:Bw:39:C:H5'	1.91	0.51
25:Bw:57:A:H2'	25:Bw:58:A:H5'	1.93	0.51
28:BE:12:THR:O	28:BE:23:VAL:HG22	2.10	0.51
28:BE:63:LEU:O	28:BE:64:LYS:C	2.54	0.51
30:BG:36:LYS:HB2	30:BG:95:ARG:HG2	1.93	0.51
30:BG:43:LEU:HB2	30:BG:88:ILE:CG2	2.40	0.51
32:BI:75:LEU:O	32:BI:76:THR:O	2.29	0.51
36:BP:17:LYS:C	36:BP:19:VAL:N	2.65	0.51
41:BU:115:ALA:C	41:BU:117:GLN:N	2.69	0.51
43:BW:95:ILE:O	43:BW:95:ILE:HG13	2.10	0.51
44:BX:3:THR:HA	44:BX:6:ASP:OD2	2.11	0.51
44:BX:31:HIS:HE1	57:BA:71:A:C2	2.28	0.51
45:BY:49:VAL:HG22	57:BA:483:A:C5'	2.33	0.51
46:BZ:165:VAL:HG12	46:BZ:166:SER:N	2.24	0.51
47:B0:27:GLU:OE1	57:BA:856:C:H1'	2.10	0.51
53:B6:48:VAL:O	53:B6:49:HIS:CB	2.59	0.51
57:BA:192:C:H2'	57:BA:193:U:H5'	1.93	0.51
57:BA:228:A:H2'	57:BA:230:U:O4'	2.11	0.51
57:BA:519:U:H2'	57:BA:520:G:C8	2.45	0.51
57:BA:1333:C:H6	57:BA:1333:C:O5'	1.93	0.51
57:BA:1340:U:H4'	57:BA:1341:U:OP2	2.11	0.51
57:BA:1947:C:H2'	57:BA:1948:G:C5'	2.40	0.51
2:Ac:8:ILE:C	2:Ac:10:PHE:N	2.64	0.51
5:Af:2:ARG:HD2	5:Af:69:GLU:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ai:120:ARG:NH1	22:Aa:1346:A:H5'	2.25	0.51
11:Al:122:THR:O	22:Aa:36:C:H4'	2.11	0.51
17:Ar:25:THR:HG22	17:Ar:25:THR:O	2.09	0.51
18:As:38:SER:O	18:As:70:LYS:HD3	2.10	0.51
21:Ay:7:PHE:N	21:Ay:7:PHE:HD1	2.08	0.51
22:Aa:110:C:H2'	22:Aa:111:G:O4'	2.10	0.51
22:Aa:112:G:H4'	22:Aa:389:A:H5"	1.92	0.51
22:Aa:542:G:H2'	22:Aa:543:C:C6	2.45	0.51
22:Aa:1241:G:H2'	22:Aa:1242:C:H6	1.70	0.51
22:Aa:1288:A:N1	22:Aa:1371:G:H1'	2.25	0.51
26:AC:22:THR:OG1	26:AC:25:GLU:HG2	2.09	0.51
27:AD:209:ALA:C	27:AD:210:GLY:O	2.45	0.51
27:AD:211:ARG:O	27:AD:215:LEU:HG	2.11	0.51
30:AG:32:PRO:HB2	30:AG:172:LEU:HD12	1.92	0.51
30:AG:129:GLY:O	30:AG:130:ASN:CB	2.58	0.51
30:AG:174:GLU:C	30:AG:176:LEU:H	2.18	0.51
31:AH:158:HIS:NE2	31:AH:170:ARG:N	2.59	0.51
32:AI:73:GLU:HB2	32:AI:137:PRO:O	2.11	0.51
37:AQ:84:GLY:O	37:AQ:85:LYS:HB2	2.10	0.51
38:AR:99:LYS:HD3	38:AR:99:LYS:N	2.19	0.51
38:AR:99:LYS:HA	38:AR:112:ALA:HA	1.92	0.51
40:AT:125:ARG:C	40:AT:127:ALA:N	2.68	0.51
41:AU:79:PHE:CE2	41:AU:83:LEU:HD21	2.45	0.51
41:AU:79:PHE:O	41:AU:83:LEU:HD22	2.11	0.51
42:AV:21:ARG:NH1	42:AV:91:TYR:HE2	2.09	0.51
44:AX:31:HIS:HE1	57:AA:71:A:C2	2.29	0.51
49:A2:24:LEU:HD11	49:A2:28:LYS:HE2	1.91	0.51
53:A6:42:TRP:HA	53:A6:42:TRP:HE3	1.75	0.51
53:A6:48:VAL:O	53:A6:49:HIS:CB	2.59	0.51
55:A8:53:PRO:C	55:A8:55:ALA:N	2.67	0.51
57:AA:1963:U:O2	57:AA:1963:U:C2'	2.58	0.51
57:AA:2282:G:O2'	57:AA:2283:C:OP2	2.28	0.51
57:AA:2312:U:C2'	57:AA:2313:C:H5"	2.41	0.51
1:Bb:104:ASN:HB2	22:Ba:1074:G:H4'	1.93	0.51
1:Bb:106:LYS:O	1:Bb:110:GLN:HG3	2.11	0.51
3:Bd:79:PHE:HE1	3:Bd:207:TYR:HB2	1.75	0.51
3:Bd:159:ARG:HG3	3:Bd:159:ARG:HH11	1.76	0.51
6:Bg:69:VAL:HG12	6:Bg:69:VAL:O	2.10	0.51
7:Bh:122:ARG:NH1	7:Bh:122:ARG:CB	2.73	0.51
8:Bi:21:PRO:HA	8:Bi:58:HIS:O	2.10	0.51
9:Bj:70:ARG:NH2	22:Ba:1152:A:H5'	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:93:LEU:HB3	11:Bl:96:VAL:HG21	1.92	0.51
12:Bm:28:ALA:HB3	22:Ba:1329:A:P	2.51	0.51
15:Bp:80:PHE:N	15:Bp:80:PHE:CD1	2.78	0.51
17:Br:25:THR:HG22	17:Br:25:THR:O	2.10	0.51
21:By:64:TYR:CD2	21:By:64:TYR:C	2.87	0.51
22:Ba:383:A:H2'	22:Ba:384:G:O4'	2.10	0.51
22:Ba:1490:C:H2'	22:Ba:1491:G:C5'	2.39	0.51
27:BD:44:ASN:HD22	27:BD:48:ARG:C	2.18	0.51
28:BE:93:VAL:C	28:BE:95:ILE:N	2.66	0.51
29:BF:3:GLU:HA	29:BF:24:LEU:HG	1.92	0.51
29:BF:160:ASN:HD22	29:BF:162:LEU:H	1.58	0.51
30:BG:88:ILE:HG22	30:BG:89:GLY:H	1.75	0.51
31:BH:41:MET:SD	31:BH:52:VAL:HG13	2.50	0.51
31:BH:94:TYR:CD2	31:BH:107:VAL:HB	2.46	0.51
31:BH:158:HIS:NE2	31:BH:170:ARG:N	2.59	0.51
32:BI:81:VAL:HG13	32:BI:143:SER:H	1.75	0.51
37:BQ:45:GLN:CD	37:BQ:45:GLN:H	2.18	0.51
39:BS:90:GLY:C	39:BS:92:TYR:N	2.69	0.51
40:BT:28:VAL:O	40:BT:29:ARG:HB2	2.09	0.51
40:BT:117:ASP:OD2	40:BT:120:ARG:HG3	2.11	0.51
43:BW:75:TYR:O	43:BW:75:TYR:HD2	1.94	0.51
46:BZ:38:TYR:O	46:BZ:38:TYR:CG	2.63	0.51
46:BZ:149:SER:OG	46:BZ:172:ALA:O	2.28	0.51
55:B8:48:PHE:O	55:B8:49:VAL:CG2	2.55	0.51
57:BA:613:G:C8	57:BA:613:G:C5'	2.94	0.51
57:BA:1021:A:O2'	57:BA:1123:C:H5"	2.10	0.51
57:BA:2062:A:H2'	57:BA:2063:C:H5'	1.93	0.51
57:BA:2464:C:O2'	57:BA:2465:C:P	2.69	0.51
1:Ab:165:VAL:HG23	1:Ab:166:ASP:H	1.74	0.51
4:Ae:143:ARG:HH11	4:Ae:143:ARG:CG	2.22	0.51
4:Ae:147:ASP:HA	4:Ae:150:ARG:NH1	2.25	0.51
8:Ai:115:GLY:N	22:Aa:1367:C:OP1	2.42	0.51
10:Ak:33:THR:CB	10:Ak:37:GLY:HA2	2.40	0.51
12:Am:65:LYS:HD2	12:Am:69:GLU:O	2.11	0.51
16:Aq:59:ILE:HG22	16:Aq:71:PHE:CD1	2.45	0.51
22:Aa:353:A:H5'	22:Aa:353:A:C8	2.38	0.51
27:AD:31:LYS:HB3	27:AD:34:VAL:CG2	2.41	0.51
27:AD:70:TRP:HZ3	27:AD:146:GLU:OE2	1.94	0.51
27:AD:268:ARG:HH11	27:AD:268:ARG:CB	2.23	0.51
28:AE:134:ILE:HA	28:AE:137:HIS:CD2	2.46	0.51
29:AF:198:ALA:O	29:AF:201:VAL:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:132:ASN:HA	30:AG:157:ILE:O	2.11	0.51
33:AJ:53:VAL:O	33:AJ:54:ALA:HB2	2.11	0.51
34:AN:30:ILE:HG22	34:AN:34:LEU:CD2	2.41	0.51
36:AP:7:ARG:CA	36:AP:7:ARG:NH1	2.72	0.51
36:AP:108:LYS:HD2	36:AP:108:LYS:N	2.25	0.51
39:AS:57:LYS:O	39:AS:58:LEU:HB2	2.10	0.51
40:AT:23:ARG:HB2	40:AT:24:PRO:HD2	1.92	0.51
44:AX:36:LYS:CB	57:AA:1598:C:H5'	2.33	0.51
45:AY:88:LYS:CE	45:AY:93:GLY:HA3	2.41	0.51
57:AA:271(H):G:O2'	57:AA:271(I):G:H8	1.93	0.51
57:AA:1039:G:H1	57:AA:1116:C:H42	1.57	0.51
57:AA:1472:A:C2'	57:AA:1473:G:H5'	2.41	0.51
57:AA:1493:C:C4	57:AA:2206:G:O2'	2.64	0.51
57:AA:1649:G:O2'	57:AA:1650:G:H5'	2.10	0.51
57:AA:2666:C:H5"	57:AA:2667:C:H5	1.76	0.51
2:Bc:6:HIS:CG	13:Bn:49:HIS:HB3	2.46	0.51
2:Bc:46:GLU:O	2:Bc:47:LEU:HB2	2.11	0.51
4:Be:112:LEU:HD23	4:Be:112:LEU:N	2.26	0.51
4:Be:150:ARG:O	4:Be:153:LYS:HG2	2.10	0.51
9:Bj:97:GLU:O	9:Bj:98:ILE:HD12	2.11	0.51
10:Bk:58:PRO:HA	10:Bk:90:GLY:CA	2.41	0.51
12:Bm:28:ALA:C	12:Bm:30:ALA:N	2.68	0.51
13:Bn:51:GLY:O	13:Bn:53:LEU:N	2.44	0.51
17:Br:63:GLN:HA	17:Br:63:GLN:OE1	2.10	0.51
18:Bs:25:LYS:O	18:Bs:26:GLY:C	2.54	0.51
19:Bt:32:ALA:O	19:Bt:36:LEU:HD23	2.11	0.51
22:Ba:343:U:O2'	22:Ba:344:A:H2'	2.11	0.51
22:Ba:662:G:H2'	22:Ba:663:A:C8	2.46	0.51
22:Ba:665:A:H2'	22:Ba:725:G:H22	1.76	0.51
22:Ba:1491:G:N2	57:BA:1913:A:N6	2.59	0.51
22:Ba:1519:A:H3'	22:Ba:1520:G:C5'	2.40	0.51
27:BD:138:VAL:O	27:BD:138:VAL:HG13	2.10	0.51
29:BF:53:THR:C	29:BF:55:GLY:H	2.17	0.51
29:BF:63:LYS:HE3	29:BF:67:GLN:HB2	1.93	0.51
30:BG:98:ARG:HA	30:BG:101:ILE:HD12	1.93	0.51
31:BH:44:VAL:N	31:BH:46:GLU:OE2	2.43	0.51
31:BH:88:LEU:HD22	31:BH:88:LEU:N	2.26	0.51
33:BJ:94:VAL:C	33:BJ:96:PHE:N	2.66	0.51
35:BO:107:ARG:NH2	40:BT:35:LYS:HD2	2.26	0.51
36:BP:39:LYS:HD3	36:BP:40:SER:H	1.76	0.51
37:BQ:39:PRO:HB3	37:BQ:99:PRO:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:99:LYS:C	39:BS:101:LEU:H	2.17	0.51
40:BT:89:VAL:CG1	40:BT:91:ARG:HG3	2.40	0.51
47:B0:25:ARG:HH11	47:B0:25:ARG:HG2	1.75	0.51
53:B6:11:LEU:C	53:B6:11:LEU:HD22	2.36	0.51
54:B7:28:ARG:NH1	54:B7:28:ARG:HG3	2.26	0.51
57:BA:621:A:C2'	57:BA:622:G:H5'	2.36	0.51
57:BA:679:C:H2'	57:BA:680:G:C8	2.46	0.51
57:BA:1742:G:N7	57:BA:1743:C:C4	2.79	0.51
1:Ab:215:LEU:O	1:Ab:218:ALA:HB3	2.11	0.51
4:Ae:116:THR:HG22	4:Ae:117:ASP:CG	2.36	0.51
7:Ah:44:PHE:HA	7:Ah:79:VAL:HG11	1.93	0.51
11:Al:110:VAL:HG23	11:Al:120:TYR:HB3	1.92	0.51
12:Am:68:GLY:CA	30:AG:116:ASP:OD2	2.55	0.51
18:As:25:LYS:O	18:As:26:GLY:C	2.53	0.51
22:Aa:90:U:HO2'	22:Aa:91:C:H5	1.58	0.51
22:Aa:302:G:N3	22:Aa:556:C:H4'	2.25	0.51
22:Aa:1052:U:H2'	22:Aa:1055:A:OP1	2.11	0.51
22:Aa:1470:G:O2'	22:Aa:1471:G:H5'	2.11	0.51
27:AD:208:LYS:HB2	57:AA:729:G:N7	2.26	0.51
27:AD:238:GLY:O	27:AD:239:ARG:C	2.52	0.51
27:AD:244:ARG:HG2	27:AD:245:PRO:HB3	1.92	0.51
28:AE:77:ILE:HG22	28:AE:78:LEU:CG	2.41	0.51
28:AE:95:ILE:HD13	28:AE:95:ILE:H	1.76	0.51
31:AH:152:ARG:O	31:AH:152:ARG:HG3	2.10	0.51
32:AI:31:LEU:HD21	32:AI:38:LEU:HG	1.93	0.51
32:AI:86:THR:O	32:AI:86:THR:HG23	2.10	0.51
36:AP:97:PRO:O	36:AP:98:GLU:CB	2.58	0.51
40:AT:19:LEU:HD22	40:AT:85:LYS:HG3	1.93	0.51
41:AU:7:GLY:O	57:AA:29:U:H4'	2.11	0.51
41:AU:61:TRP:CD2	41:AU:94:ASN:HA	2.45	0.51
45:AY:68:HIS:HB3	45:AY:71:LYS:CG	2.41	0.51
46:AZ:41:LEU:C	46:AZ:41:LEU:HD13	2.36	0.51
48:A1:40:ARG:HD3	48:A1:40:ARG:O	2.11	0.51
50:A3:1:MET:CE	50:A3:39:ASP:HB3	2.27	0.51
52:A5:6:VAL:HG13	52:A5:7:PRO:HD2	1.92	0.51
54:A7:19:ARG:HH11	54:A7:19:ARG:HG2	1.76	0.51
55:A8:50:LEU:HG	55:A8:51:ALA:N	2.26	0.51
57:AA:1889:A:O2'	57:AA:2087:G:H5'	2.11	0.51
57:AA:2099:U:O2	57:AA:2099:U:H2'	2.11	0.51
57:AA:2552:U:H2'	57:AA:2554:U:OP2	2.10	0.51
57:AA:2712:U:O2'	57:AA:2712(A):A:P	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2831:G:O2'	57:AA:2883:A:H2'	2.11	0.51
1:Bb:107:THR:HA	1:Bb:110:GLN:NE2	2.25	0.51
1:Bb:131:PRO:HG2	1:Bb:134:GLU:HG2	1.93	0.51
2:Bc:6:HIS:CD2	2:Bc:7:PRO:HD2	2.45	0.51
3:Bd:155:LEU:O	3:Bd:159:ARG:HG2	2.11	0.51
4:Be:71:LEU:HD11	4:Be:113:ALA:O	2.11	0.51
10:Bk:98:LEU:O	10:Bk:99:GLN:C	2.52	0.51
12:Bm:69:GLU:CD	12:Bm:72:ALA:HB3	2.36	0.51
13:Bn:27:CYS:C	13:Bn:29:ARG:N	2.69	0.51
14:Bo:83:GLU:C	14:Bo:85:LEU:H	2.17	0.51
15:Bp:23:ASP:O	15:Bp:26:ARG:HB2	2.11	0.51
19:Bt:33:ILE:HG22	19:Bt:37:SER:OG	2.11	0.51
19:Bt:103:GLY:N	22:Ba:192:U:C4'	2.74	0.51
21:By:70:LYS:HB2	21:By:72:VAL:HG12	1.91	0.51
22:Ba:102:G:H2'	22:Ba:103:C:H6	1.76	0.51
22:Ba:110:C:H2'	22:Ba:111:G:O4'	2.10	0.51
22:Ba:353:A:H5'	22:Ba:353:A:C8	2.43	0.51
26:BC:48:LEU:HD12	26:BC:48:LEU:N	2.26	0.51
27:BD:238:GLY:O	27:BD:239:ARG:C	2.54	0.51
28:BE:47:VAL:HG22	28:BE:49:LEU:HD23	1.91	0.51
28:BE:55:ASN:HD21	28:BE:75:VAL:HG22	1.75	0.51
30:BG:40:ASN:CG	57:BA:2313:C:O4'	2.53	0.51
30:BG:126:ASP:O	30:BG:128:ARG:N	2.44	0.51
32:BI:119:PRO:O	32:BI:120:ILE:C	2.54	0.51
36:BP:81:GLN:HB3	36:BP:106:LEU:HD12	1.93	0.51
37:BQ:27:VAL:CG1	37:BQ:28:ALA:N	2.66	0.51
39:BS:93:LYS:O	39:BS:94:TYR:C	2.54	0.51
40:BT:80:SER:HB3	40:BT:81:PRO:CD	2.31	0.51
45:BY:97:ARG:C	45:BY:99:CYS:N	2.69	0.51
46:BZ:81:ARG:NH1	46:BZ:81:ARG:CB	2.58	0.51
46:BZ:89:PHE:HD2	46:BZ:90:VAL:N	2.09	0.51
48:B1:52:ARG:O	48:B1:53:VAL:C	2.54	0.51
50:B3:1:MET:O	50:B3:3:ARG:N	2.38	0.51
53:B6:42:TRP:HA	53:B6:42:TRP:HE3	1.74	0.51
56:B9:30:PRO:O	56:B9:31:LYS:C	2.53	0.51
57:BA:816:C:O2'	57:BA:817:C:H5'	2.11	0.51
57:BA:1396:U:O2	57:BA:1396:U:C2'	2.57	0.51
57:BA:1528(A):A:C8	57:BA:1529:G:C8	2.99	0.51
57:BA:1721:G:C2	57:BA:1739:U:OP2	2.64	0.51
57:BA:2552:U:H2'	57:BA:2554:U:OP2	2.11	0.51
57:BA:2831:G:O2'	57:BA:2883:A:H2'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BB:87:G:H2'	58:BB:88:C:H5"	1.93	0.51
1:Ab:48:MET:HA	1:Ab:51:LEU:HD12	1.92	0.51
1:Ab:106:LYS:O	1:Ab:110:GLN:HG3	2.10	0.51
1:Ab:216:SER:C	1:Ab:218:ALA:N	2.68	0.51
3:Ad:23:GLY:HA3	3:Ad:112:VAL:HG22	1.93	0.51
5:Af:7:ASN:HD22	5:Af:7:ASN:N	2.08	0.51
9:Aj:40:LEU:HD21	22:Aa:1280:A:H5'	1.92	0.51
11:Al:47:LYS:HD2	11:Al:47:LYS:C	2.36	0.51
15:Ap:80:PHE:N	15:Ap:80:PHE:CD1	2.78	0.51
17:Ar:58:LEU:HB3	17:Ar:62:GLU:CB	2.41	0.51
21:Ay:7:PHE:N	21:Ay:7:PHE:CD1	2.79	0.51
22:Aa:66:G:H4'	22:Aa:173:U:C5	2.46	0.51
22:Aa:580:U:H2'	22:Aa:581:G:O4'	2.11	0.51
22:Aa:630:G:H3'	22:Aa:631:G:H5"	1.91	0.51
25:Aw:9:G:N3	25:Aw:45:G:H2'	2.25	0.51
30:AG:11:TYR:HA	30:AG:15:VAL:HG23	1.93	0.51
32:AI:62:LYS:HZ1	32:AI:133:HIS:HB2	1.76	0.51
32:AI:88:ILE:HD11	32:AI:142:VAL:CG2	2.40	0.51
34:AN:3:THR:O	34:AN:3:THR:HG22	2.10	0.51
34:AN:15:LEU:HD13	34:AN:15:LEU:C	2.36	0.51
34:AN:32:THR:O	34:AN:35:ARG:O	2.29	0.51
36:AP:18:ARG:NH1	36:AP:18:ARG:O	2.43	0.51
36:AP:23:PRO:HG2	36:AP:33:ARG:NE	2.26	0.51
36:AP:38:GLN:OE1	36:AP:41:ARG:HD2	2.11	0.51
38:AR:18:LEU:HD21	38:AR:22:ARG:NE	2.27	0.51
41:AU:8:VAL:O	41:AU:9:VAL:C	2.54	0.51
41:AU:112:ARG:NH2	42:AV:46:VAL:HG11	2.26	0.51
45:AY:95:LYS:CG	45:AY:101:LYS:H	2.22	0.51
48:A1:53:VAL:CG1	48:A1:54:ALA:N	2.74	0.51
52:A5:42:PRO:HB2	52:A5:43:HIS:HD2	1.76	0.51
53:A6:9:LEU:HD12	53:A6:28:ARG:HG3	1.92	0.51
57:AA:1150:C:O2'	57:AA:1151:G:H5'	2.11	0.51
57:AA:1171:G:N3	57:AA:1171:G:H2'	2.26	0.51
57:AA:1448:G:H1'	57:AA:1528:A:N6	2.26	0.51
57:AA:1485:G:H2'	57:AA:1486:A:H8	1.74	0.51
57:AA:1678:G:N2	57:AA:1989:G:N2	2.55	0.51
57:AA:2639:A:H2'	57:AA:2640:G:H5'	1.93	0.51
57:AA:2787:C:H2'	57:AA:2787:C:O2	2.10	0.51
3:Bd:47:ARG:NE	3:Bd:49:ARG:HH22	2.07	0.51
4:Be:6:PHE:H	4:Be:63:ARG:HH12	1.59	0.51
7:Bh:29:SER:HB3	7:Bh:32:LYS:CG	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Bi:47:LEU:CD1	8:Bi:47:LEU:H	2.21	0.51
10:Bk:108:ILE:HG21	17:Br:88:LYS:OXT	2.11	0.51
17:Br:58:LEU:H	17:Br:58:LEU:CD1	2.21	0.51
22:Ba:538:G:O2'	22:Ba:539:A:H5'	2.10	0.51
22:Ba:594:G:C2'	22:Ba:595:G:H5'	2.40	0.51
22:Ba:865:A:H5'	22:Ba:1078:U:C4	2.46	0.51
27:BD:241:PRO:C	27:BD:242:ARG:HD2	2.36	0.51
28:BE:34:VAL:O	28:BE:35:GLN:HB2	2.11	0.51
36:BP:126:VAL:CG1	36:BP:148:LEU:HD11	2.41	0.51
37:BQ:78:PRO:HB2	37:BQ:81:VAL:HG11	1.93	0.51
42:BV:52:VAL:HG13	42:BV:55:ALA:HB3	1.93	0.51
55:B8:4:MET:HG3	55:B8:61:LEU:CD2	2.40	0.51
57:BA:102:G:OP1	57:BA:102:G:C4'	2.59	0.51
57:BA:271(F):C:H2'	57:BA:271(G):C:C6	2.40	0.51
57:BA:309:G:N3	57:BA:329:G:O2'	2.44	0.51
57:BA:2305:A:OP1	57:BA:2305:A:H4'	2.11	0.51
57:BA:2533:A:C2'	57:BA:2534:A:H5'	2.41	0.51
1:Ab:177:ALA:HB1	1:Ab:182:ILE:HB	1.93	0.50
2:Ac:6:HIS:CD2	2:Ac:7:PRO:HD2	2.46	0.50
4:Ae:71:LEU:HD11	4:Ae:113:ALA:O	2.12	0.50
6:Ag:116:ALA:O	6:Ag:120:ILE:HD12	2.11	0.50
8:Ai:17:VAL:HG11	8:Ai:81:ILE:HD13	1.92	0.50
10:Ak:108:ILE:HG21	17:Ar:88:LYS:OXT	2.12	0.50
22:Aa:1246:C:O2'	22:Aa:1247:U:H5'	2.11	0.50
22:Aa:1427:U:H2'	22:Aa:1428:A:C8	2.46	0.50
27:AD:131:LEU:HD12	27:AD:131:LEU:N	2.25	0.50
27:AD:227:ASN:HD21	57:AA:784:A:H5"	1.74	0.50
29:AF:102:PRO:HA	57:AA:607:U:OP1	2.11	0.50
30:AG:29:TRP:HE3	30:AG:33:ARG:NH2	2.09	0.50
34:AN:58:ASP:C	34:AN:60:ILE:N	2.68	0.50
36:AP:85:LEU:HA	36:AP:88:LEU:HD13	1.93	0.50
36:AP:126:VAL:CG1	36:AP:148:LEU:HD11	2.41	0.50
37:AQ:76:LYS:HB3	37:AQ:91:GLU:HG3	1.93	0.50
40:AT:54:ARG:HB2	57:AA:2846:G:OP2	2.12	0.50
45:AY:20:TYR:CE2	45:AY:42:VAL:N	2.77	0.50
46:AZ:179:ASP:OD2	46:AZ:181:GLU:HB2	2.11	0.50
49:A2:13:ALA:CA	49:A2:16:LEU:HG	2.38	0.50
49:A2:53:LEU:HD23	49:A2:53:LEU:C	2.37	0.50
52:A5:41:PRO:HG2	52:A5:44:THR:OG1	2.11	0.50
54:A7:5:TRP:CZ3	57:AA:464:U:H4'	2.46	0.50
55:A8:48:PHE:C	55:A8:49:VAL:HG13	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:108:U:H2'	57:AA:109:G:C8	2.47	0.50
57:AA:221:A:H61	57:AA:265:A:H8	1.57	0.50
57:AA:529:A:H62	57:AA:2041:U:H3	1.58	0.50
57:AA:557:U:H2'	57:AA:558:G:H8	1.76	0.50
57:AA:607:U:H3	57:AA:621:A:H2	1.53	0.50
57:AA:610:G:H2'	57:AA:611:C:C6	2.45	0.50
57:AA:1047:G:C2	57:AA:1111:A:N6	2.79	0.50
57:AA:1301:A:H2	57:AA:1626:G:N3	2.08	0.50
57:AA:1346:G:H2'	57:AA:1347:G:H8	1.76	0.50
57:AA:1467:C:O2'	57:AA:1468:C:H5'	2.11	0.50
57:AA:1652:A:C2'	57:AA:1653:G:H5'	2.41	0.50
57:AA:1799:G:H5'	57:AA:1819:A:H61	1.76	0.50
57:AA:2041:U:H2'	57:AA:2042:A:C8	2.46	0.50
57:AA:2199:A:H5"	57:AA:2200:C:H5	1.77	0.50
57:AA:2836:U:H2'	57:AA:2837:G:C8	2.46	0.50
58:AB:77:U:C2'	58:AB:78:A:H5'	2.41	0.50
1:Bb:111:ARG:HD2	22:Ba:1104:G:O5'	2.11	0.50
2:Bc:14:ILE:O	2:Bc:16:ARG:N	2.44	0.50
2:Bc:16:ARG:CA	2:Bc:16:ARG:HH11	2.24	0.50
3:Bd:21:LEU:O	3:Bd:113:SER:HB2	2.11	0.50
4:Be:39:GLY:O	4:Be:69:VAL:N	2.42	0.50
7:Bh:97:VAL:C	7:Bh:99:GLU:H	2.17	0.50
10:Bk:22:HIS:HB3	10:Bk:29:ILE:CG2	2.37	0.50
12:Bm:3:ARG:CB	30:BG:113:ARG:NH1	2.72	0.50
12:Bm:69:GLU:HB3	12:Bm:72:ALA:N	2.26	0.50
18:Bs:51:VAL:HB	18:Bs:58:VAL:HG22	1.93	0.50
22:Ba:358:U:H2'	22:Ba:359:U:H6	1.76	0.50
22:Ba:586:C:O2'	22:Ba:587:G:H5'	2.10	0.50
22:Ba:644:G:O2'	22:Ba:645:C:H5'	2.11	0.50
22:Ba:775:G:O2'	22:Ba:776:G:H5'	2.11	0.50
22:Ba:989:C:O2'	22:Ba:990:C:H5'	2.11	0.50
22:Ba:1129:C:N4	22:Ba:1135:U:H3	2.02	0.50
22:Ba:1442(A):G:H2'	40:BT:118:ARG:HD2	1.92	0.50
26:BC:219:MET:O	26:BC:220:GLY:O	2.29	0.50
28:BE:11:MET:CB	28:BE:24:THR:HA	2.40	0.50
28:BE:52:LEU:O	28:BE:74:PRO:CA	2.59	0.50
28:BE:69:LYS:HZ2	28:BE:89:ASP:HA	1.76	0.50
29:BF:136:THR:O	29:BF:137:LYS:C	2.54	0.50
36:BP:59:LEU:HA	36:BP:61:ARG:HH11	1.66	0.50
39:BS:57:LYS:O	39:BS:58:LEU:HB2	2.11	0.50
40:BT:118:ARG:HA	40:BT:121:ILE:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:29:LEU:HD21	43:BW:33:ARG:NH2	2.23	0.50
46:BZ:19:ARG:C	46:BZ:21:ALA:H	2.20	0.50
46:BZ:168:GLU:O	46:BZ:170:THR:N	2.32	0.50
57:BA:49:A:H5"	57:BA:51:G:O4'	2.12	0.50
57:BA:1346:G:H2'	57:BA:1347:G:H8	1.76	0.50
57:BA:2206:G:H21	57:BA:2207:G:C4'	2.24	0.50
57:BA:2538:C:O2'	57:BA:2539:C:H5'	2.10	0.50
57:BA:2631:G:N3	57:BA:2810:A:H2	2.08	0.50
4:Ae:6:PHE:H	4:Ae:63:ARG:HH12	1.59	0.50
5:Af:42:GLU:C	5:Af:44:GLY:N	2.68	0.50
8:Ai:19:LEU:HD21	8:Ai:61:ALA:HB2	1.93	0.50
12:Am:69:GLU:CA	12:Am:70:LEU:O	2.51	0.50
13:An:26:ARG:NH1	13:An:47:LEU:HG	2.26	0.50
18:As:41:VAL:HG13	18:As:42:PRO:HD2	1.93	0.50
22:Aa:142:G:H2'	22:Aa:143:A:C8	2.46	0.50
22:Aa:428:G:O4'	22:Aa:430:A:C8	2.65	0.50
22:Aa:775:G:O2'	22:Aa:776:G:H5'	2.11	0.50
22:Aa:909:A:H2'	22:Aa:910:C:O4'	2.12	0.50
22:Aa:1004:A:H8	22:Aa:1036:G:O6	1.95	0.50
22:Aa:1124:G:N2	22:Aa:1126:U:H3	2.09	0.50
22:Aa:1465:C:H2'	22:Aa:1466:C:O4'	2.10	0.50
23:Ax:20:A:H8	23:Ax:20:A:O5'	1.95	0.50
27:AD:58:HIS:CD2	27:AD:59:LYS:N	2.79	0.50
28:AE:16:ARG:O	28:AE:18:ASP:N	2.43	0.50
29:AF:65:TRP:CZ3	29:AF:75:HIS:HD2	2.29	0.50
30:AG:125:PHE:HB2	30:AG:166:ASP:HB2	1.92	0.50
31:AH:17:VAL:O	31:AH:45:VAL:HG22	2.12	0.50
31:AH:18:GLU:O	31:AH:24:VAL:HG23	2.10	0.50
36:AP:85:LEU:HD23	36:AP:85:LEU:N	2.16	0.50
38:AR:32:GLY:C	38:AR:33:ARG:HD2	2.36	0.50
41:AU:91:ASP:O	41:AU:92:ARG:HB3	2.12	0.50
45:AY:26:LYS:HG2	45:AY:27:VAL:H	1.76	0.50
45:AY:98:VAL:HG12	45:AY:98:VAL:O	2.11	0.50
46:AZ:166:SER:N	46:AZ:167:PRO:HA	2.27	0.50
46:AZ:178:GLU:O	46:AZ:179:ASP:O	2.28	0.50
52:A5:3:LYS:HZ3	57:AA:2614:A:H5'	1.74	0.50
53:A6:10:LEU:HD23	53:A6:10:LEU:N	2.17	0.50
55:A8:53:PRO:HG2	55:A8:54:GLU:N	2.25	0.50
57:AA:408:G:O2'	57:AA:409:C:H5'	2.12	0.50
57:AA:469:G:C2'	57:AA:470:A:H5"	2.41	0.50
57:AA:1665:A:O2'	57:AA:1666:G:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2626:C:O2'	57:AA:2627:G:H5'	2.10	0.50
1:Bb:71:VAL:HG13	1:Bb:93:VAL:HB	1.94	0.50
1:Bb:178:ARG:HH22	7:Bh:68:ARG:HH22	1.58	0.50
1:Bb:217:ARG:HH11	1:Bb:217:ARG:HG3	1.75	0.50
1:Bb:237:ALA:O	1:Bb:238:LEU:HB3	2.10	0.50
2:Bc:86:VAL:O	2:Bc:89:GLU:HB3	2.11	0.50
3:Bd:196:LEU:HD12	3:Bd:196:LEU:N	2.21	0.50
7:Bh:10:LEU:HD12	7:Bh:85:ARG:HB2	1.93	0.50
11:Bl:51:ALA:O	11:Bl:52:LEU:HD23	2.11	0.50
12:Bm:69:GLU:CB	12:Bm:72:ALA:N	2.74	0.50
18:Bs:41:VAL:HG13	18:Bs:42:PRO:HD2	1.92	0.50
21:By:62:LEU:HD11	21:By:75:VAL:HG13	1.92	0.50
22:Ba:112:G:H4'	22:Ba:389:A:H5"	1.92	0.50
22:Ba:189(B):C:H2'	22:Ba:189(C):C:C6	2.45	0.50
22:Ba:302:G:N3	22:Ba:556:C:H4'	2.26	0.50
22:Ba:1498:U:C5	23:Bx:17:U:C5'	2.94	0.50
25:Bw:67:C:H2'	25:Bw:68:C:C6	2.47	0.50
27:BD:98:VAL:C	27:BD:100:GLY:N	2.67	0.50
28:BE:187:ALA:CB	57:BA:2729:G:H1'	2.41	0.50
30:BG:105:LYS:HE2	51:B4:25:TYR:O	2.10	0.50
31:BH:28:GLY:C	31:BH:30:LYS:H	2.18	0.50
31:BH:142:GLY:O	57:BA:2745:C:H4'	2.10	0.50
32:BI:35:LEU:O	32:BI:36:ALA:HB2	2.09	0.50
32:BI:91:SER:HB3	32:BI:121:LYS:HD3	1.93	0.50
34:BN:35:ARG:C	34:BN:37:LYS:N	2.70	0.50
37:BQ:59:ARG:O	37:BQ:59:ARG:HG3	2.11	0.50
41:BU:92:ARG:HD2	42:BV:11:GLN:NE2	2.26	0.50
41:BU:92:ARG:CB	42:BV:11:GLN:NE2	2.72	0.50
41:BU:115:ALA:C	41:BU:117:GLN:H	2.18	0.50
48:B1:29:GLY:C	48:B1:31:GLY:N	2.69	0.50
49:B2:47:ASN:ND2	57:BA:94(A):G:N3	2.59	0.50
52:B5:42:PRO:HB2	52:B5:43:HIS:HD2	1.76	0.50
54:B7:35:ARG:HD3	57:BA:54:G:O2'	2.11	0.50
55:B8:61:LEU:CD1	55:B8:62:LEU:N	2.66	0.50
57:BA:11:G:H22	57:BA:2628:C:P	2.34	0.50
57:BA:1496:A:H8	57:BA:1577:C:HO2'	1.53	0.50
57:BA:1523:U:H2'	57:BA:1524:G:H8	1.77	0.50
57:BA:1917:U:O2'	57:BA:1918:A:H5'	2.11	0.50
57:BA:1932:A:H2'	57:BA:1933:G:O4'	2.11	0.50
57:BA:2716:U:O2'	57:BA:2717:G:H5'	2.11	0.50
57:BA:2735:G:H2'	57:BA:2736:G:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:112:VAL:O	1:Ab:116:GLU:HG2	2.12	0.50
3:Ad:106:TYR:C	3:Ad:108:LEU:H	2.18	0.50
5:Af:37:VAL:HG12	5:Af:38:GLU:N	2.26	0.50
6:Ag:139:GLU:O	6:Ag:142:GLU:N	2.44	0.50
10:Ak:34:ASP:CB	10:Ak:35:PRO:CD	2.89	0.50
10:Ak:98:LEU:O	10:Ak:99:GLN:C	2.54	0.50
12:Am:59:TYR:O	12:Am:63:THR:N	2.40	0.50
14:Ao:33:THR:HA	14:Ao:63:ARG:HH11	1.76	0.50
17:Ar:40:LEU:HD12	17:Ar:40:LEU:N	2.26	0.50
17:Ar:50:ILE:HD12	17:Ar:70:ILE:HG21	1.92	0.50
19:At:93:GLU:O	19:At:95:ALA:N	2.41	0.50
22:Aa:93:G:C2'	22:Aa:96:U:H5'	2.41	0.50
22:Aa:489:C:O2'	22:Aa:490:G:H5'	2.11	0.50
22:Aa:594:G:C2'	22:Aa:595:G:H5'	2.41	0.50
22:Aa:1319:A:H61	22:Aa:1361:G:H21	1.58	0.50
27:AD:80:ALA:HB3	27:AD:94:LEU:CD1	2.41	0.50
27:AD:239:ARG:HG2	57:AA:2591:C:P	2.51	0.50
29:AF:65:TRP:CZ3	29:AF:73:ALA:O	2.64	0.50
30:AG:58:GLN:HG3	30:AG:59:GLU:H	1.76	0.50
35:AO:13:ASN:C	35:AO:15:GLY:N	2.68	0.50
36:AP:7:ARG:HB3	36:AP:7:ARG:CZ	2.41	0.50
36:AP:75:ILE:HD12	36:AP:75:ILE:H	1.76	0.50
41:AU:106:PHE:O	41:AU:110:VAL:HG23	2.10	0.50
49:A2:3:LEU:HD22	49:A2:7:ARG:HH12	1.75	0.50
49:A2:46:GLN:CG	49:A2:49:LYS:HE3	2.41	0.50
49:A2:64:LEU:CD2	49:A2:68:ARG:HH11	2.23	0.50
57:AA:142:A:C8	57:AA:1408:C:H1'	2.46	0.50
57:AA:394:A:C2'	57:AA:395:U:H5'	2.41	0.50
57:AA:580:C:H2'	57:AA:581:C:C6	2.47	0.50
57:AA:1047:G:N2	57:AA:1111:A:H62	2.09	0.50
57:AA:1430:C:H2'	57:AA:1431:U:C6	2.46	0.50
57:AA:1669:A:H2'	57:AA:1670:C:H5'	1.94	0.50
57:AA:2128:C:O2'	57:AA:2129:C:H5'	2.12	0.50
57:AA:2672:G:C3'	57:AA:2673:G:H5"	2.41	0.50
57:AA:2758:A:H2'	57:AA:2759:G:O4'	2.11	0.50
1:Bb:79:ASP:O	1:Bb:81:VAL:N	2.45	0.50
4:Be:22:GLY:O	22:Ba:1194:U:H4'	2.10	0.50
4:Be:68:GLU:HG3	4:Be:68:GLU:O	2.12	0.50
6:Bg:102:ARG:HH22	22:Ba:939:G:C5'	2.18	0.50
6:Bg:116:ALA:O	6:Bg:120:ILE:HD12	2.11	0.50
6:Bg:139:GLU:O	6:Bg:142:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bg:148:ASN:N	6:Bg:148:ASN:HD22	2.08	0.50
7:Bh:20:TYR:HD1	7:Bh:65:TYR:CD2	2.30	0.50
7:Bh:44:PHE:HA	7:Bh:79:VAL:CG1	2.41	0.50
8:Bi:67:GLY:HA2	22:Ba:1250:A:H5'	1.93	0.50
12:Bm:45:VAL:O	12:Bm:48:LEU:HD22	2.12	0.50
15:Bp:58:TYR:O	15:Bp:61:SER:N	2.41	0.50
16:Bq:98:LEU:O	16:Bq:99:SER:O	2.29	0.50
18:Bs:36:ARG:HD3	22:Ba:1221:G:OP1	2.10	0.50
21:By:16:ARG:HG2	21:By:16:ARG:NH1	2.27	0.50
21:By:88:SER:C	21:By:90:ALA:H	2.17	0.50
22:Ba:444:C:H2'	22:Ba:445:G:H8	1.76	0.50
22:Ba:585:G:N3	22:Ba:879:C:H4'	2.26	0.50
22:Ba:706:A:C5	22:Ba:707:C:H5	2.29	0.50
22:Ba:1060:C:O2'	22:Ba:1061:G:H5'	2.11	0.50
22:Ba:1071:C:H2'	22:Ba:1072:G:H8	1.77	0.50
27:BD:45:ASN:ND2	27:BD:50:THR:CG2	2.75	0.50
27:BD:109:ASP:HB2	27:BD:197:GLY:CA	2.41	0.50
28:BE:5:LEU:HD12	28:BE:51:PHE:HB2	1.92	0.50
29:BF:58:ALA:O	29:BF:59:TYR:O	2.29	0.50
30:BG:87:PRO:C	30:BG:88:ILE:HD13	2.37	0.50
30:BG:130:ASN:HB3	30:BG:160:VAL:HA	1.92	0.50
31:BH:94:TYR:OH	31:BH:160:LYS:HD3	2.11	0.50
37:BQ:55:VAL:HG12	37:BQ:64:ILE:HD12	1.93	0.50
40:BT:66:VAL:HA	40:BT:71:GLY:HA2	1.94	0.50
42:BV:39:LEU:CB	42:BV:47:VAL:HG11	2.40	0.50
42:BV:76:LYS:HB2	42:BV:81:TYR:HB3	1.92	0.50
45:BY:95:LYS:CE	45:BY:101:LYS:H	2.22	0.50
46:BZ:72:ARG:HH11	46:BZ:72:ARG:HB3	1.76	0.50
46:BZ:144:LEU:HD12	46:BZ:150:LEU:HD22	1.94	0.50
46:BZ:150:LEU:O	46:BZ:171:ILE:HG23	2.12	0.50
46:BZ:171:ILE:HG13	46:BZ:172:ALA:N	2.26	0.50
53:B6:26:ASN:OD1	53:B6:27:LYS:N	2.45	0.50
57:BA:110:G:O2'	57:BA:111:A:H5'	2.11	0.50
57:BA:272(G):C:H42	57:BA:363(C):G:H1	1.57	0.50
57:BA:1669:A:H2'	57:BA:1670:C:H5'	1.94	0.50
57:BA:2092:U:C5	57:BA:2226:C:OP2	2.64	0.50
57:BA:2162:G:O2'	57:BA:2163:C:H5'	2.11	0.50
57:BA:2639:A:C2'	57:BA:2640:G:H5'	2.42	0.50
57:BA:2732:G:C3'	57:BA:2733:A:H5'	2.41	0.50
1:Ab:111:ARG:HD2	22:Aa:1104:G:O5'	2.11	0.50
2:Ac:86:VAL:O	2:Ac:89:GLU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:33:MET:C	3:Ad:35:ARG:H	2.19	0.50
4:Ae:31:LEU:CD2	4:Ae:43:LEU:HD11	2.41	0.50
5:Af:81:ILE:O	5:Af:82:ARG:C	2.55	0.50
6:Ag:143:ARG:HB3	25:Aw:41:C:H4'	1.94	0.50
8:Ai:104:ARG:HH11	8:Ai:104:ARG:HG3	1.77	0.50
12:Am:22:ILE:CB	12:Am:25:ILE:HD12	2.40	0.50
15:Ap:27:LYS:HG2	22:Aa:111:G:H5"	1.92	0.50
16:Aq:76:LEU:HD12	16:Aq:77:VAL:H	1.75	0.50
22:Aa:760:G:H2'	22:Aa:761:G:H5'	1.94	0.50
22:Aa:762:C:H2'	22:Aa:763:G:H8	1.77	0.50
22:Aa:991:U:O2	22:Aa:993:G:C8	2.65	0.50
22:Aa:1151:A:O2'	22:Aa:1152:A:H8	1.95	0.50
24:Av:71:C:H6	24:Av:71:C:H5"	1.76	0.50
28:AE:50:GLY:HA2	28:AE:78:LEU:HB3	1.91	0.50
32:AI:69:LYS:HA	32:AI:136:VAL:CG1	2.41	0.50
32:AI:94:ALA:O	32:AI:98:ALA:HB3	2.11	0.50
32:AI:110:ASP:HB2	32:AI:113:ARG:HB2	1.94	0.50
34:AN:133:GLN:O	34:AN:134:ARG:HB3	2.11	0.50
35:AO:69:ILE:HD12	35:AO:69:ILE:N	2.27	0.50
36:AP:16:ARG:CD	36:AP:16:ARG:C	2.80	0.50
37:AQ:55:VAL:HG12	37:AQ:64:ILE:HD12	1.93	0.50
39:AS:46:VAL:HG13	58:AB:114:C:H4'	1.92	0.50
40:AT:35:LYS:HE2	40:AT:41:ARG:HE	1.75	0.50
40:AT:125:ARG:HH11	40:AT:125:ARG:CA	2.24	0.50
44:AX:29:TRP:CE3	44:AX:78:LYS:HB3	2.47	0.50
45:AY:2:ARG:HD3	45:AY:2:ARG:C	2.36	0.50
46:AZ:81:ARG:HH11	46:AZ:81:ARG:HB2	1.76	0.50
57:AA:145:G:C3'	57:AA:146:G:H5"	2.41	0.50
57:AA:315:G:H2'	57:AA:316:C:H6	1.72	0.50
57:AA:363(E):U:H3'	57:AA:363(F):A:O4'	2.11	0.50
57:AA:633:A:C2'	57:AA:634:C:H5'	2.41	0.50
57:AA:1349:A:N6	57:AA:1598:C:N4	2.59	0.50
57:AA:2093:G:H2'	57:AA:2094:G:H8	1.77	0.50
1:Bb:144:ARG:HA	1:Bb:147:LYS:CB	2.39	0.50
3:Bd:72:GLU:HB3	22:Ba:546:G:P	2.51	0.50
3:Bd:79:PHE:O	3:Bd:82:ALA:HB3	2.11	0.50
4:Be:6:PHE:N	4:Be:6:PHE:CD1	2.80	0.50
7:Bh:13:ILE:O	7:Bh:17:THR:HG23	2.11	0.50
8:Bi:69:GLY:O	8:Bi:70:LYS:C	2.55	0.50
9:Bj:56:HIS:O	9:Bj:58:ASP:N	2.43	0.50
10:Bk:116:HIS:O	10:Bk:117:ASN:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Bn:48:ALA:HB2	13:Bn:53:LEU:HD12	1.93	0.50
14:Bo:3:ILE:HA	14:Bo:7:GLU:OE2	2.11	0.50
19:Bt:103:GLY:HA2	22:Ba:192:U:C1'	2.41	0.50
22:Ba:6:G:H4'	22:Ba:298:A:H4'	1.92	0.50
22:Ba:936:C:O2'	22:Ba:937:A:H5'	2.11	0.50
22:Ba:1061:G:O2'	22:Ba:1062:U:H5'	2.12	0.50
22:Ba:1117:G:H22	22:Ba:1180:A:H1'	1.77	0.50
25:Bw:27:U:O2'	25:Bw:28:C:H5'	2.12	0.50
27:BD:244:ARG:HG3	57:BA:1902:C:H1'	1.93	0.50
28:BE:24:THR:HG21	28:BE:188:VAL:HG12	1.92	0.50
32:BI:118:LYS:HZ2	32:BI:119:PRO:C	2.19	0.50
33:BJ:117:LEU:HA	33:BJ:121:ASP:O	2.12	0.50
34:BN:62:VAL:CG2	34:BN:66:LYS:HD2	2.42	0.50
36:BP:85:LEU:HA	36:BP:88:LEU:HD13	1.93	0.50
38:BR:2:ARG:N	38:BR:2:ARG:CD	2.74	0.50
38:BR:103:ARG:CD	43:BW:40:ASN:ND2	2.75	0.50
39:BS:92:TYR:O	39:BS:93:LYS:HB3	2.10	0.50
40:BT:54:ARG:O	40:BT:55:ASN:HB2	2.12	0.50
40:BT:80:SER:CB	40:BT:81:PRO:HD3	2.32	0.50
41:BU:108:GLU:CG	42:BV:44:LYS:HD3	2.40	0.50
51:B4:5:ILE:HD13	51:B4:5:ILE:H	1.73	0.50
53:B6:11:LEU:N	53:B6:11:LEU:HD13	2.26	0.50
57:BA:128:C:H2'	57:BA:129:C:H6	1.76	0.50
57:BA:2815:C:H2'	57:BA:2816:C:H6	1.75	0.50
58:BB:4:C:H2'	58:BB:5:C:C6	2.46	0.50
1:Ab:71:VAL:HG13	1:Ab:93:VAL:HB	1.93	0.50
1:Ab:78:GLN:HB3	1:Ab:94:ASN:ND2	2.23	0.50
2:Ac:74:GLY:C	2:Ac:76:VAL:H	2.18	0.50
3:Ad:128:VAL:O	3:Ad:129:ASN:C	2.54	0.50
7:Ah:51:VAL:HG11	7:Ah:60:ARG:HD3	1.93	0.50
8:Ai:15:ALA:HB2	8:Ai:65:VAL:CB	2.41	0.50
8:Ai:37:PHE:CE1	8:Ai:74:ILE:HG12	2.46	0.50
8:Ai:83:ARG:C	8:Ai:86:VAL:HG12	2.37	0.50
8:Ai:117:HIS:HB2	8:Ai:121:ARG:HD2	1.92	0.50
9:Aj:46:ARG:HH11	9:Aj:46:ARG:HG2	1.77	0.50
15:Ap:69:THR:HG21	22:Aa:375:U:OP1	2.11	0.50
19:At:32:ALA:O	19:At:36:LEU:HD23	2.11	0.50
19:At:89:ARG:HB2	19:At:104:LEU:HD11	1.93	0.50
22:Aa:1060:C:O2'	22:Aa:1061:G:H5'	2.12	0.50
22:Aa:1073:U:H2'	22:Aa:1074:G:C8	2.47	0.50
22:Aa:1264:C:H1'	22:Aa:1272:G:N2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1512:U:H2'	22:Aa:1513:A:H8	1.77	0.50
29:AF:7:TYR:HB3	29:AF:16:GLY:N	2.25	0.50
33:AJ:118:THR:C	33:AJ:120:LYS:N	2.70	0.50
34:AN:133:GLN:O	34:AN:134:ARG:CB	2.59	0.50
36:AP:29:LYS:HD2	36:AP:29:LYS:N	2.27	0.50
36:AP:63:PRO:C	36:AP:65:ARG:N	2.68	0.50
36:AP:107:LYS:C	36:AP:109:GLY:N	2.69	0.50
37:AQ:51:ARG:O	37:AQ:52:VAL:C	2.53	0.50
38:AR:28:LEU:HA	38:AR:34:ILE:HG12	1.92	0.50
38:AR:51:LEU:HG	38:AR:66:VAL:HG13	1.92	0.50
42:AV:35:LEU:C	42:AV:37:VAL:N	2.67	0.50
46:AZ:146:ILE:O	57:AA:896:A:H5"	2.11	0.50
52:A5:7:PRO:HA	57:AA:2615:U:N1	2.26	0.50
52:A5:35:GLU:O	52:A5:49:CYS:CB	2.59	0.50
53:A6:43:CYS:O	53:A6:44:ARG:CB	2.59	0.50
57:AA:26:G:C6	57:AA:27:G:N1	2.79	0.50
57:AA:118:A:H1'	57:AA:178:G:O4'	2.11	0.50
57:AA:128:C:H6	57:AA:128:C:H5"	1.76	0.50
57:AA:588:U:H6	57:AA:588:U:O5'	1.95	0.50
57:AA:2092:U:C5	57:AA:2226:C:OP2	2.65	0.50
57:AA:2305:A:OP1	57:AA:2305:A:H4'	2.12	0.50
2:Bc:83:ARG:HG3	2:Bc:87:LEU:HD12	1.93	0.50
2:Bc:141:VAL:HG11	2:Bc:202:ILE:HD12	1.93	0.50
5:Bf:37:VAL:HG12	5:Bf:38:GLU:N	2.26	0.50
6:Bg:78:ARG:HG3	22:Ba:1381:U:O2	2.10	0.50
9:Bj:8:LEU:C	9:Bj:16:LEU:HD21	2.36	0.50
11:Bl:31:PRO:HD2	22:Ba:363:A:C6	2.47	0.50
22:Ba:764:C:H2'	22:Ba:765:G:O4'	2.12	0.50
24:Bv:76:A:O2'	57:BA:2451:A:H1'	2.12	0.50
25:Bw:32:C:C2'	25:Bw:33:U:H5'	2.42	0.50
27:BD:96:HIS:ND1	27:BD:102:LYS:HD3	2.26	0.50
27:BD:98:VAL:C	27:BD:100:GLY:H	2.19	0.50
27:BD:208:LYS:HB2	57:BA:729:G:N7	2.26	0.50
28:BE:16:ARG:O	28:BE:18:ASP:N	2.45	0.50
39:BS:96:GLY:C	39:BS:98:VAL:H	2.20	0.50
40:BT:31:SER:N	40:BT:43:GLN:O	2.45	0.50
40:BT:100:TYR:CD2	40:BT:103:ARG:NH2	2.77	0.50
42:BV:47:VAL:O	42:BV:48:GLY:C	2.54	0.50
45:BY:7:VAL:C	45:BY:8:LYS:HD2	2.36	0.50
45:BY:26:LYS:HG2	45:BY:27:VAL:H	1.77	0.50
45:BY:32:PRO:O	45:BY:33:LYS:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:47:LYS:O	45:BY:48:ALA:C	2.55	0.50
46:BZ:31:ARG:HB2	46:BZ:31:ARG:CZ	2.42	0.50
48:B1:29:GLY:HA3	57:BA:2396:G:O2'	2.10	0.50
50:B3:52:HIS:H	50:B3:52:HIS:CD2	2.29	0.50
51:B4:14:ILE:O	51:B4:21:VAL:HA	2.12	0.50
51:B4:50:VAL:O	51:B4:52:THR:N	2.42	0.50
57:BA:128:C:H6	57:BA:128:C:H5"	1.76	0.50
57:BA:1047:G:C2	57:BA:1111:A:N6	2.79	0.50
57:BA:1459:G:C8	57:BA:1461:G:H1'	2.47	0.50
57:BA:2196:C:O2'	57:BA:2197:U:H5'	2.11	0.50
57:BA:2248:C:C2'	57:BA:2249:U:H5'	2.42	0.50
4:Ae:26:PHE:O	4:Ae:27:ARG:HB2	2.11	0.50
6:Ag:143:ARG:HD3	25:Aw:41:C:O3'	2.12	0.50
12:Am:111:LYS:O	12:Am:112:GLY:O	2.30	0.50
13:An:36:PHE:HD1	13:An:37:PHE:N	2.09	0.50
14:Ao:9:GLN:HB3	14:Ao:13:GLN:NE2	2.22	0.50
17:Ar:63:GLN:HA	17:Ar:63:GLN:OE1	2.11	0.50
22:Aa:119:A:O2'	22:Aa:120:A:OP2	2.27	0.50
22:Aa:955:U:H1'	22:Aa:1227:A:N6	2.26	0.50
22:Aa:1076:C:C2	22:Aa:1082:G:N2	2.80	0.50
22:Aa:1149:C:H2'	22:Aa:1150:U:H6	1.74	0.50
22:Aa:1152:A:H2'	22:Aa:1153:C:H6	1.77	0.50
28:AE:6:GLY:HA2	28:AE:51:PHE:CE2	2.46	0.50
28:AE:61:ARG:NH1	57:AA:2632:A:N3	2.59	0.50
28:AE:95:ILE:H	28:AE:95:ILE:CD1	2.25	0.50
29:AF:51:THR:HG21	29:AF:92:PRO:HD2	1.93	0.50
30:AG:119:GLY:CA	30:AG:179:PRO:HB2	2.33	0.50
31:AH:33:LEU:HD12	31:AH:75:ALA:HA	1.92	0.50
32:AI:124:GLY:H	32:AI:142:VAL:HG11	1.76	0.50
35:AO:22:ILE:HB	35:AO:40:VAL:HG12	1.94	0.50
38:AR:7:GLY:O	38:AR:8:ARG:NE	2.38	0.50
40:AT:70:VAL:HG12	40:AT:71:GLY:O	2.12	0.50
43:AW:42:ARG:HB2	57:AA:2010:G:H5"	1.94	0.50
45:AY:47:LYS:HD2	45:AY:60:PHE:CE2	2.46	0.50
47:A0:27:GLU:OE1	57:AA:856:C:O2'	2.23	0.50
57:AA:772:C:O2'	57:AA:773:U:H5'	2.11	0.50
57:AA:848:G:H5'	57:AA:848:G:C8	2.40	0.50
57:AA:1448:G:N3	57:AA:1528(A):A:H2	2.10	0.50
57:AA:1846:G:H5'	57:AA:1846:G:C8	2.40	0.50
57:AA:2041:U:O2'	57:AA:2042:A:H5'	2.12	0.50
57:AA:2206:G:H21	57:AA:2207:G:C4'	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:74:LYS:HD2	1:Bb:166:ASP:HB2	1.93	0.50
2:Bc:110:ASN:C	2:Bc:112:SER:H	2.18	0.50
4:Be:67:VAL:O	4:Be:69:VAL:HG23	2.12	0.50
4:Be:84:PHE:CE2	4:Be:133:TYR:HD1	2.30	0.50
5:Bf:53:ALA:HB3	5:Bf:86:ARG:NH1	2.26	0.50
7:Bh:20:TYR:CE2	7:Bh:75:ARG:HD2	2.39	0.50
10:Bk:13:GLN:HB3	10:Bk:75:TYR:O	2.11	0.50
12:Bm:70:LEU:O	12:Bm:71:ARG:O	2.30	0.50
14:Bo:18:PHE:O	14:Bo:18:PHE:CD1	2.65	0.50
19:Bt:13:LEU:HD12	19:Bt:13:LEU:N	2.27	0.50
22:Ba:428:G:O4'	22:Ba:430:A:C8	2.65	0.50
22:Ba:542:G:H2'	22:Ba:543:C:C6	2.47	0.50
26:BC:31:LYS:HE2	26:BC:180:SER:O	2.12	0.50
27:BD:35:LYS:HZ2	27:BD:36:PRO:CD	2.24	0.50
30:BG:29:TRP:O	30:BG:30:GLU:C	2.54	0.50
36:BP:124:LYS:HE2	36:BP:143:GLY:HA2	1.92	0.50
39:BS:62:LYS:O	39:BS:65:VAL:N	2.45	0.50
39:BS:90:GLY:O	39:BS:92:TYR:N	2.44	0.50
40:BT:47:GLY:HA3	40:BT:63:VAL:CG1	2.42	0.50
41:BU:24:TYR:HB2	41:BU:29:SER:HB3	1.93	0.50
41:BU:33:ARG:HG3	57:BA:581:C:OP1	2.12	0.50
41:BU:74:LEU:CD1	41:BU:74:LEU:N	2.75	0.50
41:BU:111:GLU:OE2	41:BU:111:GLU:HA	2.10	0.50
42:BV:19:LYS:HG3	42:BV:20:LEU:O	2.12	0.50
45:BY:15:VAL:HG12	45:BY:16:ALA:N	2.26	0.50
49:B2:22:GLU:O	49:B2:25:VAL:N	2.44	0.50
49:B2:46:GLN:O	49:B2:48:HIS:ND1	2.44	0.50
50:B3:40:THR:HG23	50:B3:43:ILE:HB	1.93	0.50
51:B4:6:HIS:HB3	51:B4:7:PRO:CD	2.41	0.50
57:BA:487:C:H2'	57:BA:488:G:H8	1.76	0.50
57:BA:1935:G:H1'	57:BA:1964:G:N2	2.27	0.50
57:BA:2031:A:C6	57:BA:2498:C:H1'	2.47	0.50
1:Ab:173:ALA:O	1:Ab:174:VAL:C	2.55	0.50
3:Ad:135:LEU:HD11	22:Aa:619:U:N3	2.27	0.50
3:Ad:157:LEU:O	3:Ad:161:ASN:ND2	2.45	0.50
3:Ad:175:SER:OG	3:Ad:186:LEU:HD21	2.11	0.50
6:Ag:37:ASN:HD21	8:Ai:40:LEU:HA	1.77	0.50
11:Al:12:ARG:HH22	22:Aa:881:G:P	2.35	0.50
18:As:6:LYS:CD	18:As:6:LYS:N	2.75	0.50
18:As:22:LEU:O	18:As:26:GLY:HA2	2.12	0.50
18:As:36:ARG:HB2	18:As:72:GLY:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Ay:8:ASP:O	21:Ay:9:GLU:C	2.54	0.50
22:Aa:447:G:H2'	22:Aa:485:G:N2	2.27	0.50
22:Aa:908:A:H2'	22:Aa:909:A:H8	1.76	0.50
22:Aa:1053:G:N7	22:Aa:1200:C:H5"	2.27	0.50
22:Aa:1111:A:O2'	22:Aa:1112:C:H5'	2.11	0.50
29:AF:60:SER:OG	29:AF:61:GLY:N	2.45	0.50
29:AF:63:LYS:CE	29:AF:67:GLN:HB2	2.42	0.50
29:AF:178:PRO:HB2	29:AF:201:VAL:CG1	2.35	0.50
30:AG:19:LEU:C	30:AG:21:ARG:N	2.66	0.50
30:AG:25:TYR:C	30:AG:26:GLN:OE1	2.54	0.50
33:AJ:49:ALA:HB3	33:AJ:90:ALA:CB	2.40	0.50
36:AP:47:ASP:HB3	36:AP:48:PRO:C	2.37	0.50
38:AR:9:LYS:HD3	57:AA:1652:A:OP1	2.11	0.50
41:AU:31:SER:O	41:AU:33:ARG:N	2.45	0.50
47:A0:27:GLU:OE1	57:AA:856:C:H1'	2.12	0.50
47:A0:37:LEU:O	47:A0:38:VAL:HG23	2.12	0.50
48:A1:37:ILE:HG23	48:A1:37:ILE:O	2.10	0.50
48:A1:57:GLU:O	48:A1:58:ILE:O	2.30	0.50
49:A2:67:LYS:O	49:A2:70:GLN:CG	2.57	0.50
50:A3:8:LEU:HD11	50:A3:31:LEU:HD23	1.89	0.50
51:A4:11:PRO:HB3	51:A4:25:TYR:HD2	1.76	0.50
55:A8:32:LEU:HB3	55:A8:36:LYS:NZ	2.26	0.50
57:AA:80:G:C2'	57:AA:81:G:H5'	2.42	0.50
57:AA:296:C:C2'	57:AA:297:C:H5'	2.41	0.50
57:AA:1163:G:O2'	57:AA:1164:G:H5'	2.11	0.50
57:AA:1484:G:N2	57:AA:1505:C:N4	2.59	0.50
57:AA:1496:A:H8	57:AA:1577:C:HO2'	1.56	0.50
1:Bb:48:MET:HE2	1:Bb:49:GLU:N	2.27	0.50
3:Bd:29:PRO:C	3:Bd:30:LYS:HG2	2.37	0.50
3:Bd:114:ARG:O	3:Bd:117:ALA:HB3	2.11	0.50
4:Be:43:LEU:HD21	4:Be:132:ALA:HB1	1.94	0.50
6:Bg:145:ALA:O	6:Bg:146:GLU:CB	2.59	0.50
8:Bi:15:ALA:HB2	8:Bi:65:VAL:CB	2.42	0.50
8:Bi:17:VAL:HG11	8:Bi:81:ILE:HD13	1.93	0.50
8:Bi:50:LEU:CD2	8:Bi:85:LEU:HD23	2.42	0.50
8:Bi:85:LEU:HD13	8:Bi:92:TYR:HD2	1.77	0.50
9:Bj:47:PHE:O	9:Bj:62:HIS:HB2	2.11	0.50
10:Bk:34:ASP:CB	10:Bk:35:PRO:CD	2.90	0.50
13:Bn:4:LYS:C	13:Bn:6:LEU:H	2.19	0.50
16:Bq:22:LEU:HD11	16:Bq:39:SER:CB	2.40	0.50
18:Bs:62:ILE:HD12	18:Bs:66:MET:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:328:C:O2'	22:Ba:329:A:P	2.70	0.50
22:Ba:742:G:O2'	22:Ba:743:U:H5'	2.11	0.50
22:Ba:849:C:O2'	22:Ba:850:U:H5'	2.12	0.50
22:Ba:955:U:H1'	22:Ba:1227:A:N6	2.27	0.50
22:Ba:1139:G:H1'	22:Ba:1141:C:H41	1.77	0.50
22:Ba:1148:U:H2'	22:Ba:1149:C:O4'	2.11	0.50
22:Ba:1246:C:O2'	22:Ba:1247:U:H5'	2.12	0.50
22:Ba:1442(B):A:N7	40:BT:118:ARG:HG2	2.26	0.50
22:Ba:1446:U:H4'	22:Ba:1447:A:C5	2.47	0.50
25:Bw:15:G:H2'	25:Bw:59:A:C2	2.46	0.50
26:BC:6:LYS:C	26:BC:8:TYR:H	2.20	0.50
28:BE:102:VAL:HB	28:BE:199:ARG:O	2.12	0.50
29:BF:38:ARG:NH2	57:BA:660:G:O3'	2.44	0.50
30:BG:109:VAL:O	30:BG:110:ALA:O	2.30	0.50
32:BI:83:ALA:O	32:BI:145:VAL:HG22	2.11	0.50
36:BP:7:ARG:HH11	36:BP:7:ARG:CB	2.25	0.50
36:BP:99:LEU:HA	36:BP:102:ARG:NH2	2.27	0.50
37:BQ:39:PRO:HD3	37:BQ:99:PRO:CG	2.40	0.50
37:BQ:101:ARG:HG3	37:BQ:102:VAL:N	2.25	0.50
40:BT:125:ARG:C	40:BT:127:ALA:N	2.69	0.50
41:BU:61:TRP:CD2	41:BU:94:ASN:HA	2.47	0.50
53:B6:34:LEU:HD23	53:B6:51:GLU:HB3	1.94	0.50
54:B7:16:HIS:ND1	57:BA:465:G:H4'	2.27	0.50
57:BA:743:G:O2'	57:BA:744:G:H5'	2.12	0.50
57:BA:1051:G:C2	57:BA:1052:C:N4	2.80	0.50
57:BA:2022:U:O2'	57:BA:2617:C:H5'	2.11	0.50
1:Ab:44:LEU:O	1:Ab:47:THR:HB	2.12	0.50
1:Ab:161:ALA:O	1:Ab:162:ILE:HG23	2.12	0.50
1:Ab:217:ARG:HH11	1:Ab:217:ARG:HG3	1.77	0.50
1:Ab:237:ALA:O	1:Ab:238:LEU:HB3	2.10	0.50
3:Ad:159:ARG:HH11	3:Ad:159:ARG:HG3	1.75	0.50
4:Ae:39:GLY:CA	4:Ae:69:VAL:HB	2.41	0.50
6:Ag:116:ALA:HB2	22:Aa:1240:U:OP2	2.12	0.50
7:Ah:97:VAL:C	7:Ah:99:GLU:H	2.19	0.50
9:Aj:34:VAL:CG2	9:Aj:74:ILE:HG22	2.42	0.50
10:Ak:13:GLN:HB3	10:Ak:75:TYR:O	2.12	0.50
10:Ak:82:VAL:HB	10:Ak:108:ILE:HG13	1.93	0.50
15:Ap:17:TYR:CE2	22:Aa:375:U:H4'	2.47	0.50
21:Ay:81:ARG:O	21:Ay:83:ARG:N	2.41	0.50
22:Aa:102:G:H2'	22:Aa:103:C:H6	1.75	0.50
22:Aa:1061:G:O2'	22:Aa:1062:U:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1095:U:H5'	22:Aa:1109:C:O2	2.12	0.50
22:Aa:1244:C:H2'	22:Aa:1245:A:C8	2.47	0.50
22:Aa:1363(A):A:H1'	22:Aa:1365:G:N7	2.27	0.50
25:Aw:29:G:H2'	25:Aw:30:G:C8	2.45	0.50
26:AC:16:ASP:OD2	26:AC:19:LYS:HB2	2.11	0.50
27:AD:148:GLU:HB3	27:AD:151:LYS:HD2	1.93	0.50
28:AE:11:MET:HB3	28:AE:24:THR:HA	1.93	0.50
29:AF:3:GLU:HA	29:AF:24:LEU:HG	1.92	0.50
29:AF:63:LYS:HZ1	29:AF:67:GLN:HB2	1.75	0.50
30:AG:26:GLN:O	30:AG:27:ASN:HB2	2.12	0.50
30:AG:31:VAL:O	30:AG:33:ARG:NH1	2.45	0.50
36:AP:13:ASN:C	36:AP:13:ASN:ND2	2.69	0.50
36:AP:46:LYS:HD3	57:AA:196:A:C8	2.46	0.50
41:AU:10:ARG:HG3	57:AA:1251:C:OP1	2.12	0.50
46:AZ:38:TYR:O	46:AZ:38:TYR:CG	2.64	0.50
46:AZ:61:LEU:H	46:AZ:61:LEU:CD2	2.15	0.50
53:A6:8:LYS:NZ	57:AA:2285:C:H5	2.10	0.50
57:AA:528:A:H2	57:AA:2043:C:C5'	2.25	0.50
57:AA:1910:G:O2'	57:AA:1911:U:H5'	2.12	0.50
57:AA:1962:C:O2'	57:AA:1964:G:OP2	2.30	0.50
57:AA:2360:A:O2'	57:AA:2361:A:P	2.70	0.50
58:AB:4:C:H2'	58:AB:5:C:C6	2.47	0.50
1:Bb:107:THR:HA	1:Bb:110:GLN:HG3	1.94	0.50
1:Bb:189:ASP:C	1:Bb:191:ASP:H	2.19	0.50
2:Bc:2:GLY:HA2	22:Ba:1060:C:H5	1.77	0.50
3:Bd:126:ILE:CG2	3:Bd:127:THR:N	2.75	0.50
3:Bd:194:LEU:HD22	3:Bd:194:LEU:N	2.26	0.50
4:Be:143:ARG:HH11	4:Be:143:ARG:CG	2.24	0.50
5:Bf:42:GLU:C	5:Bf:44:GLY:N	2.69	0.50
6:Bg:62:PHE:HD1	6:Bg:124:LEU:HD11	1.76	0.50
13:Bn:13:THR:HG22	13:Bn:13:THR:O	2.11	0.50
22:Ba:248:C:O2'	22:Ba:249:U:H5'	2.12	0.50
22:Ba:551:U:H2'	22:Ba:552:U:C6	2.46	0.50
22:Ba:784:C:H2'	22:Ba:785:G:H8	1.76	0.50
22:Ba:930:C:O2'	22:Ba:931:C:H5'	2.12	0.50
27:BD:70:TRP:C	27:BD:70:TRP:CD1	2.90	0.50
28:BE:61:ARG:NH1	57:BA:2632:A:N3	2.60	0.50
28:BE:77:ILE:HG22	28:BE:78:LEU:CG	2.40	0.50
29:BF:65:TRP:CZ3	29:BF:73:ALA:O	2.65	0.50
29:BF:67:GLN:O	29:BF:67:GLN:HG3	2.11	0.50
30:BG:13:GLU:HG3	30:BG:14:GLU:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:32:PRO:HB2	30:BG:172:LEU:HD13	1.92	0.50
30:BG:97:ASP:H	30:BG:100:TRP:CD1	2.30	0.50
30:BG:125:PHE:CD2	30:BG:131:TYR:HB2	2.47	0.50
31:BH:56:SER:HB2	31:BH:58:GLU:HG3	1.94	0.50
32:BI:46:ALA:HB2	57:BA:271(P):C:H5'	1.94	0.50
37:BQ:76:LYS:CB	37:BQ:91:GLU:HG3	2.42	0.50
42:BV:2:PHE:HB2	42:BV:42:GLY:HA2	1.94	0.50
46:BZ:29:TYR:HB3	46:BZ:34:ASN:HA	1.94	0.50
50:B3:1:MET:CE	50:B3:39:ASP:HB3	2.28	0.50
55:B8:4:MET:HE2	57:BA:593:G:O4'	2.11	0.50
57:BA:272(D):G:H1	57:BA:364:C:N4	2.09	0.50
57:BA:1039:G:H1	57:BA:1116:C:H42	1.58	0.50
57:BA:1047:G:N2	57:BA:1111:A:H62	2.09	0.50
57:BA:1240:U:O2'	57:BA:1241:A:H5'	2.11	0.50
57:BA:2108:C:O2'	57:BA:2109:U:H5'	2.12	0.50
57:BA:2128:C:O2'	57:BA:2129:C:H5'	2.11	0.50
57:BA:2672:G:C3'	57:BA:2673:G:H5"	2.42	0.50
1:Ab:189:ASP:C	1:Ab:191:ASP:H	2.19	0.50
2:Ac:14:ILE:O	2:Ac:16:ARG:N	2.45	0.50
2:Ac:138:VAL:HG12	2:Ac:138:VAL:O	2.11	0.50
3:Ad:155:LEU:O	3:Ad:159:ARG:HG2	2.12	0.50
6:Ag:79:ARG:HD3	6:Ag:82:GLY:N	2.17	0.50
7:Ah:20:TYR:HD1	7:Ah:65:TYR:CD2	2.29	0.50
7:Ah:44:PHE:HA	7:Ah:79:VAL:CG1	2.42	0.50
7:Ah:63:LEU:HD22	7:Ah:63:LEU:N	2.21	0.50
8:Ai:102:LEU:O	8:Ai:103:THR:O	2.30	0.50
9:Aj:8:LEU:C	9:Aj:16:LEU:HD21	2.36	0.50
12:Am:45:VAL:O	12:Am:48:LEU:HD22	2.12	0.50
12:Am:81:LEU:CD2	12:Am:88:ARG:HE	2.25	0.50
15:Ap:58:TYR:O	15:Ap:61:SER:N	2.40	0.50
16:Aq:31:LEU:HD11	22:Aa:564:C:C5	2.47	0.50
17:Ar:61:LYS:O	17:Ar:65:ILE:HG13	2.12	0.50
19:At:87:LYS:HA	19:At:90:GLN:OE1	2.12	0.50
21:Ay:3:TYR:HB3	21:Ay:73:VAL:CG2	2.42	0.50
22:Aa:445:G:O2'	22:Aa:446:G:H5'	2.12	0.50
22:Aa:712:A:O2'	22:Aa:713:G:H5'	2.11	0.50
22:Aa:1148:U:H2'	22:Aa:1149:C:O4'	2.11	0.50
22:Aa:1161:C:H2'	22:Aa:1162:C:C6	2.46	0.50
22:Aa:1490:C:H2'	22:Aa:1491:G:C5'	2.42	0.50
23:Ax:10:G:O5'	23:Ax:11:U:P	2.70	0.50
28:AE:55:ASN:HD21	28:AE:75:VAL:HG22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:203:LYS:HE3	28:AE:204:ALA:HB2	1.93	0.50
29:AF:4:VAL:CG1	29:AF:17:ARG:HD3	2.41	0.50
31:AH:28:GLY:C	31:AH:30:LYS:H	2.20	0.50
31:AH:41:MET:HE3	31:AH:42:ARG:CA	2.42	0.50
31:AH:99:VAL:O	31:AH:102:ALA:HB3	2.12	0.50
32:AI:88:ILE:CG1	32:AI:142:VAL:HG13	2.41	0.50
32:AI:112:LYS:HD2	32:AI:112:LYS:N	2.26	0.50
36:AP:7:ARG:C	36:AP:9:ASN:H	2.20	0.50
40:AT:35:LYS:NZ	40:AT:41:ARG:NH2	2.58	0.50
44:AX:44:GLU:HG3	44:AX:51:VAL:HG23	1.94	0.50
44:AX:73:ARG:HH22	57:AA:1337:G:P	2.34	0.50
45:AY:95:LYS:HD3	45:AY:100:ALA:HB1	1.92	0.50
46:AZ:103:ARG:HB3	46:AZ:136:PHE:HB2	1.94	0.50
50:A3:44:ARG:O	50:A3:48:GLU:HG2	2.12	0.50
51:A4:51:ASP:OD2	51:A4:51:ASP:C	2.55	0.50
53:A6:11:LEU:CD1	53:A6:26:ASN:HB2	2.42	0.50
55:A8:4:MET:HG3	55:A8:61:LEU:CD2	2.41	0.50
57:AA:218:A:C2	57:AA:235:U:H4'	2.46	0.50
57:AA:286:C:H2'	57:AA:287:C:C6	2.46	0.50
57:AA:2774:C:H2'	57:AA:2775:A:O4'	2.12	0.50
1:Bb:76:GLN:O	1:Bb:208:ILE:HG12	2.12	0.50
1:Bb:154:LEU:O	1:Bb:155:LEU:C	2.55	0.50
1:Bb:189:ASP:C	1:Bb:191:ASP:N	2.69	0.50
2:Bc:39:ILE:O	2:Bc:43:LEU:HG	2.12	0.50
2:Bc:134:ILE:HD11	2:Bc:153:VAL:HG21	1.94	0.50
6:Bg:23:VAL:O	6:Bg:23:VAL:HG12	2.11	0.50
6:Bg:37:ASN:C	6:Bg:39:ALA:N	2.69	0.50
7:Bh:21:LYS:O	7:Bh:63:LEU:HD23	2.12	0.50
7:Bh:102:ARG:HD3	7:Bh:102:ARG:N	2.27	0.50
8:Bi:107:ARG:HB3	22:Ba:1347:G:H8	1.77	0.50
11:Bl:30:ALA:O	11:Bl:31:PRO:C	2.55	0.50
11:Bl:114:LYS:HB2	22:Ba:538:G:H5"	1.94	0.50
13:Bn:27:CYS:O	13:Bn:29:ARG:N	2.45	0.50
13:Bn:36:PHE:HD1	13:Bn:37:PHE:N	2.10	0.50
14:Bo:33:THR:HA	14:Bo:63:ARG:HH11	1.76	0.50
16:Bq:31:LEU:HD11	22:Ba:564:C:C6	2.47	0.50
17:Br:61:LYS:O	17:Br:65:ILE:HG13	2.12	0.50
18:Bs:78:ARG:NH2	22:Ba:1223:C:OP2	2.45	0.50
22:Ba:166:G:O2'	22:Ba:167:G:H5'	2.11	0.50
22:Ba:318:G:H2'	22:Ba:319:G:H8	1.76	0.50
22:Ba:447:G:H2'	22:Ba:485:G:N2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:918:A:H2'	22:Ba:919:A:C8	2.47	0.50
22:Ba:1512:U:O2'	22:Ba:1513:A:H5'	2.12	0.50
27:BD:18:VAL:HG22	27:BD:211:ARG:HH21	1.77	0.50
27:BD:168:ARG:O	27:BD:169:GLU:HB2	2.11	0.50
29:BF:28:ILE:HD12	29:BF:119:ARG:HH21	1.77	0.50
30:BG:8:LYS:O	30:BG:12:TYR:CE1	2.65	0.50
30:BG:83:ARG:NH1	30:BG:84:LYS:HE3	2.27	0.50
30:BG:106:LEU:C	30:BG:108:ASN:H	2.20	0.50
31:BH:158:HIS:CE1	31:BH:169:VAL:C	2.89	0.50
35:BO:107:ARG:HH22	40:BT:35:LYS:HD2	1.77	0.50
39:BS:48:LEU:CD2	39:BS:82:ILE:HD11	2.42	0.50
40:BT:107:ASP:H	40:BT:110:ILE:HG12	1.76	0.50
44:BX:10:ALA:O	44:BX:28:PHE:HB3	2.12	0.50
44:BX:30:VAL:HG21	44:BX:39:ILE:HD11	1.94	0.50
45:BY:57:GLN:CG	45:BY:58:GLY:H	2.11	0.50
45:BY:84:ARG:HD2	45:BY:97:ARG:HE	1.76	0.50
55:B8:50:LEU:CD1	55:B8:51:ALA:N	2.69	0.50
57:BA:80:G:C2'	57:BA:81:G:H5'	2.42	0.50
57:BA:214:G:H1'	57:BA:216:A:O2'	2.12	0.50
57:BA:262:A:H2'	57:BA:263:C:O4'	2.11	0.50
57:BA:277:C:O2'	57:BA:278:A:H5'	2.12	0.50
57:BA:614:U:O4'	57:BA:614:U:O2	2.30	0.50
57:BA:2648:C:H2'	57:BA:2649:U:H6	1.76	0.50
57:BA:2853:C:H2'	57:BA:2854:G:H8	1.75	0.50
1:Ab:16:HIS:HB3	1:Ab:210:SER:HA	1.94	0.49
1:Ab:53:ARG:NH1	1:Ab:199:TYR:HD2	2.09	0.49
6:Ag:37:ASN:C	6:Ag:39:ALA:N	2.69	0.49
6:Ag:62:PHE:HA	6:Ag:124:LEU:HD21	1.94	0.49
9:Aj:97:GLU:O	9:Aj:98:ILE:HD12	2.12	0.49
11:Al:59:ARG:NH1	11:Al:63:GLY:O	2.45	0.49
11:Al:68:ALA:HB1	11:Al:85:ILE:HD11	1.94	0.49
11:Al:93:LEU:HB3	11:Al:96:VAL:HG21	1.93	0.49
19:At:103:GLY:HA2	22:Aa:192:U:C1'	2.41	0.49
22:Aa:139:G:H2'	22:Aa:140:A:H8	1.76	0.49
22:Aa:918:A:H2'	22:Aa:919:A:C8	2.47	0.49
22:Aa:1071:C:H2'	22:Aa:1072:G:H8	1.76	0.49
26:AC:182:PRO:CB	26:AC:185:LYS:HD2	2.41	0.49
27:AD:35:LYS:HZ2	27:AD:36:PRO:CD	2.24	0.49
27:AD:35:LYS:C	27:AD:35:LYS:CD	2.74	0.49
30:AG:37:VAL:HG22	30:AG:159:VAL:HG23	1.94	0.49
30:AG:60:LEU:O	30:AG:60:LEU:HD22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:109:VAL:O	30:AG:110:ALA:O	2.30	0.49
30:AG:181:ARG:O	30:AG:181:ARG:HD2	2.11	0.49
32:AI:74:ASN:C	32:AI:76:THR:N	2.67	0.49
36:AP:61:ARG:HD2	36:AP:61:ARG:H	1.77	0.49
40:AT:55:ASN:HD22	40:AT:58:ASN:ND2	2.10	0.49
41:AU:115:ALA:C	41:AU:117:GLN:N	2.70	0.49
44:AX:54:VAL:C	44:AX:55:ASN:HD22	2.20	0.49
45:AY:28:LYS:C	45:AY:38:ILE:HG22	2.37	0.49
51:A4:47:GLN:O	51:A4:48:ARG:HB3	2.11	0.49
55:A8:48:PHE:O	55:A8:49:VAL:CG2	2.53	0.49
57:AA:575:A:O2'	57:AA:576:U:H5'	2.12	0.49
57:AA:970:C:H2'	57:AA:971:C:C6	2.47	0.49
57:AA:1528(A):A:C8	57:AA:1529:G:C8	3.00	0.49
57:AA:1826:G:H2'	57:AA:1827:C:H6	1.77	0.49
57:AA:2789:C:N3	57:AA:2894:G:O6	2.44	0.49
57:AA:2865:U:H3'	57:AA:2866:U:O2	2.12	0.49
58:AB:70:C:H2'	58:AB:71:C:C6	2.46	0.49
5:Bf:91:VAL:HG11	17:Br:72:ARG:NH1	2.27	0.49
6:Bg:101:LEU:O	6:Bg:104:LEU:HB2	2.12	0.49
8:Bi:83:ARG:C	8:Bi:86:VAL:HG12	2.37	0.49
8:Bi:125:TYR:HB3	22:Ba:1342:C:H4'	1.94	0.49
9:Bj:6:ILE:HG22	9:Bj:98:ILE:CD1	2.42	0.49
9:Bj:40:LEU:HD21	22:Ba:1280:A:H5'	1.93	0.49
12:Bm:85:GLY:O	12:Bm:86:CYS:CB	2.59	0.49
12:Bm:111:LYS:HE2	22:Ba:1227:A:OP2	2.12	0.49
16:Bq:74:LEU:HD12	16:Bq:75:ARG:HG2	1.92	0.49
18:Bs:53:ASN:O	18:Bs:77:THR:HG22	2.12	0.49
22:Ba:615:C:H2'	22:Ba:616:G:O4'	2.11	0.49
22:Ba:1174:G:O2'	22:Ba:1175:G:H5'	2.11	0.49
22:Ba:1406:U:O2'	22:Ba:1407:C:H5'	2.11	0.49
27:BD:18:VAL:HG22	27:BD:211:ARG:NH2	2.27	0.49
27:BD:65:ILE:HD11	27:BD:67:PHE:CG	2.47	0.49
27:BD:66:ASP:OD2	27:BD:69:ARG:HG2	2.12	0.49
27:BD:71:ASP:CG	27:BD:103:ARG:HH22	2.19	0.49
27:BD:248:SER:CB	27:BD:249:PRO:HD2	2.41	0.49
28:BE:69:LYS:C	28:BE:71:GLY:N	2.66	0.49
29:BF:7:TYR:HB3	29:BF:16:GLY:N	2.26	0.49
30:BG:5:VAL:HG12	30:BG:6:ALA:N	2.27	0.49
31:BH:121:ILE:HD12	31:BH:144:VAL:HG21	1.92	0.49
31:BH:146:ALA:HB2	31:BH:164:TYR:OH	2.11	0.49
32:BI:62:LYS:HE3	32:BI:133:HIS:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:108:LYS:O	36:BP:110:TYR:N	2.45	0.49
37:BQ:54:MET:SD	37:BQ:118:LEU:HD23	2.52	0.49
38:BR:101:ALA:HA	52:B5:44:THR:HG21	1.93	0.49
39:BS:12:PHE:HD2	39:BS:12:PHE:N	2.08	0.49
47:B0:16:SER:OG	57:BA:2261:C:H3'	2.12	0.49
48:B1:52:ARG:NH1	57:BA:2218:U:H1'	2.27	0.49
49:B2:10:LEU:O	49:B2:14:ARG:HG3	2.12	0.49
50:B3:1:MET:O	50:B3:3:ARG:HG3	2.12	0.49
57:BA:7:G:H2'	57:BA:8:A:C8	2.47	0.49
57:BA:83:G:N2	57:BA:103:A:OP2	2.42	0.49
57:BA:118:A:H1'	57:BA:178:G:O4'	2.12	0.49
57:BA:1168:G:O2'	57:BA:1169:G:H5'	2.13	0.49
57:BA:1486:A:H61	57:BA:1504:C:H42	1.58	0.49
57:BA:1649:G:O2'	57:BA:1650:G:H5'	2.12	0.49
57:BA:1756:G:H4'	57:BA:1758:G:O4'	2.12	0.49
57:BA:2291:U:OP1	57:BA:2380:C:O2'	2.28	0.49
57:BA:2758:A:H2'	57:BA:2759:G:O4'	2.12	0.49
58:BB:40:U:N3	58:BB:43:C:H5"	2.27	0.49
2:Ac:206:GLU:O	2:Ac:207:VAL:C	2.54	0.49
5:Af:54:LYS:O	5:Af:56:PRO:HD3	2.12	0.49
8:Ai:19:LEU:HD22	8:Ai:59:PHE:CB	2.40	0.49
9:Aj:51:ARG:CB	22:Aa:1060:C:H4'	2.42	0.49
13:An:32:SER:O	13:An:40:CYS:HA	2.12	0.49
21:Ay:62:LEU:HD13	21:Ay:78:VAL:HB	1.95	0.49
22:Aa:819:A:H4'	22:Aa:820:U:OP2	2.11	0.49
22:Aa:920:U:H2'	22:Aa:921:U:C6	2.47	0.49
22:Aa:1129:C:N4	22:Aa:1135:U:H3	2.03	0.49
22:Aa:1139:G:H1'	22:Aa:1141:C:H41	1.77	0.49
29:AF:8:GLN:HG2	29:AF:126:VAL:CB	2.42	0.49
29:AF:28:ILE:HD13	29:AF:28:ILE:N	2.23	0.49
30:AG:15:VAL:HG13	30:AG:175:LEU:CB	2.42	0.49
30:AG:40:ASN:OD1	57:AA:2313:C:O4'	2.29	0.49
31:AH:156:ALA:O	31:AH:158:HIS:N	2.44	0.49
33:AJ:14:LYS:C	33:AJ:65:GLU:CB	2.85	0.49
37:AQ:38:GLU:HG3	37:AQ:127:ILE:HB	1.92	0.49
39:AS:48:LEU:CD2	39:AS:82:ILE:HD11	2.42	0.49
41:AU:47:TYR:HD1	41:AU:50:ARG:HH22	1.60	0.49
41:AU:55:ARG:HD2	57:AA:1155:A:OP1	2.12	0.49
45:AY:4:LYS:CG	45:AY:5:MET:H	2.25	0.49
48:A1:53:VAL:HG12	48:A1:54:ALA:N	2.27	0.49
53:A6:52:VAL:CG2	53:A6:53:LYS:H	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:A8:37:SER:O	55:A8:38:GLY:C	2.54	0.49
57:AA:276:A:H5'	57:AA:277:C:C6	2.47	0.49
57:AA:1209:G:H21	57:AA:1210:A:H62	1.60	0.49
57:AA:1221:C:H2'	57:AA:1221(A):C:H6	1.76	0.49
57:AA:1286:A:H2'	57:AA:1288:U:OP2	2.11	0.49
57:AA:1336:A:H2'	57:AA:1337:G:H8	1.76	0.49
57:AA:1341:U:OP1	57:AA:1397:U:N3	2.41	0.49
57:AA:2271:G:H2'	57:AA:2272:U:C6	2.47	0.49
57:AA:2461:C:H2'	57:AA:2462:U:C6	2.46	0.49
57:AA:2648:C:H2'	57:AA:2649:U:H6	1.76	0.49
2:Bc:14:ILE:HG23	2:Bc:15:THR:N	2.26	0.49
8:Bi:20:ARG:HG3	8:Bi:20:ARG:HH11	1.76	0.49
15:Bp:4:ILE:HD11	15:Bp:64:ALA:HB3	1.93	0.49
15:Bp:43:LYS:C	15:Bp:45:THR:H	2.19	0.49
17:Br:43:PHE:C	17:Br:44:LEU:HD12	2.37	0.49
18:Bs:32:LYS:HA	18:Bs:50:ALA:HB3	1.94	0.49
21:By:67:ILE:CG2	21:By:69:GLU:HB3	2.42	0.49
22:Ba:34:C:H2'	22:Ba:35:G:C8	2.48	0.49
22:Ba:1107:C:C3'	22:Ba:1108:G:H5"	2.42	0.49
22:Ba:1218:C:H2'	22:Ba:1219:U:C5	2.46	0.49
22:Ba:1228:C:H2'	22:Ba:1229:A:C8	2.44	0.49
22:Ba:1478:C:H2'	22:Ba:1479:C:H6	1.76	0.49
24:Bv:67:C:H2'	24:Bv:67:C:O2	2.11	0.49
25:Bw:1:C:N4	25:Bw:72:A:H61	2.09	0.49
28:BE:64:LYS:C	28:BE:66:HIS:H	2.17	0.49
28:BE:95:ILE:H	28:BE:95:ILE:CD1	2.25	0.49
31:BH:41:MET:CE	31:BH:53:GLU:H	2.25	0.49
40:BT:19:LEU:HD22	40:BT:85:LYS:CD	2.43	0.49
41:BU:74:LEU:CD2	41:BU:79:PHE:HB2	2.42	0.49
41:BU:88:ILE:C	41:BU:90:VAL:N	2.71	0.49
41:BU:91:ASP:O	41:BU:95:LEU:HB2	2.12	0.49
45:BY:4:LYS:HD2	45:BY:32:PRO:CD	2.42	0.49
45:BY:28:LYS:CA	45:BY:38:ILE:HG22	2.40	0.49
57:BA:207:A:H2'	57:BA:208:C:O4'	2.11	0.49
57:BA:221:A:O2'	57:BA:222:A:OP2	2.30	0.49
57:BA:531:C:OP1	57:BA:561:G:N1	2.45	0.49
57:BA:877:U:O2'	57:BA:878:A:H5"	2.13	0.49
57:BA:1119:C:H2'	57:BA:1120:G:H8	1.77	0.49
57:BA:1163:G:O2'	57:BA:1164:G:H5'	2.12	0.49
57:BA:1301:A:H2	57:BA:1626:G:N3	2.10	0.49
57:BA:1833:U:H2'	57:BA:1834:U:C6	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1963:U:O2	57:BA:1963:U:C2'	2.59	0.49
1:Ab:74:LYS:HD2	1:Ab:166:ASP:HB2	1.93	0.49
2:Ac:16:ARG:CA	2:Ac:16:ARG:HH11	2.26	0.49
6:Ag:101:LEU:O	6:Ag:104:LEU:HB2	2.12	0.49
6:Ag:145:ALA:O	6:Ag:146:GLU:CB	2.60	0.49
8:Ai:20:ARG:HH11	8:Ai:20:ARG:HG3	1.76	0.49
8:Ai:104:ARG:HG2	8:Ai:105:ASP:N	2.26	0.49
9:Aj:31:GLY:HA3	9:Aj:78:ASN:CG	2.36	0.49
9:Aj:63:PHE:HD1	13:An:58:LYS:HA	1.76	0.49
10:Ak:58:PRO:HA	10:Ak:90:GLY:CA	2.42	0.49
10:Ak:79:SER:CB	10:Ak:106:LYS:HD2	2.38	0.49
12:Am:63:THR:O	12:Am:64:TRP:O	2.30	0.49
12:Am:91:ARG:HD3	18:As:81:ARG:HH22	1.64	0.49
13:An:24:CYS:SG	13:An:27:CYS:SG	3.07	0.49
17:Ar:73:ALA:HB3	17:Ar:79:LEU:HD12	1.95	0.49
22:Aa:999:C:O2'	22:Aa:1000:U:H5'	2.12	0.49
22:Aa:1126:U:OP2	22:Aa:1281:U:O2	2.30	0.49
22:Aa:1268:A:H2'	22:Aa:1269:A:C8	2.48	0.49
25:Aw:7:G:H3'	25:Aw:8:U:C5'	2.40	0.49
26:AC:45:HIS:HB3	57:AA:2177:C:H1'	1.94	0.49
27:AD:98:VAL:C	27:AD:100:GLY:H	2.18	0.49
28:AE:52:LEU:O	28:AE:74:PRO:CA	2.59	0.49
29:AF:41:LEU:O	29:AF:44:ARG:HG2	2.11	0.49
32:AI:94:ALA:CA	32:AI:98:ALA:HB3	2.41	0.49
35:AO:2:ILE:HD11	35:AO:82:ASN:HB3	1.94	0.49
35:AO:64:ARG:NH1	40:AT:70:VAL:HG21	2.27	0.49
36:AP:32:THR:O	36:AP:33:ARG:CB	2.59	0.49
38:AR:2:ARG:HH22	57:AA:2724:C:P	2.34	0.49
43:AW:9:TYR:N	43:AW:102:HIS:HD2	2.10	0.49
44:AX:14:SER:O	44:AX:15:GLU:C	2.55	0.49
46:AZ:51:ALA:CB	46:AZ:57:ILE:HD11	2.41	0.49
46:AZ:57:ILE:CG2	46:AZ:58:VAL:N	2.75	0.49
53:A6:40:CYS:HB2	53:A6:46:HIS:ND1	2.28	0.49
55:A8:43:GLN:O	55:A8:44:LYS:HD2	2.12	0.49
57:AA:7:G:H2'	57:AA:8:A:C8	2.47	0.49
57:AA:1019:U:O2'	57:AA:1021:A:C2	2.55	0.49
57:AA:1477:A:H5'	57:AA:1478:G:OP2	2.12	0.49
57:AA:2552:U:O2	57:AA:2554:U:H5'	2.13	0.49
57:AA:2688:U:H1'	57:AA:2721:A:H61	1.78	0.49
58:AB:2:C:H2'	58:AB:3:C:C6	2.47	0.49
4:Be:26:PHE:O	4:Be:27:ARG:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Be:79:GLU:HA	4:Be:91:LEU:O	2.12	0.49
10:Bk:105:VAL:HB	10:Bk:108:ILE:CD1	2.38	0.49
10:Bk:110:ASP:O	17:Br:84:LYS:HD2	2.12	0.49
12:Bm:23:TYR:HB3	12:Bm:67:GLU:CA	2.42	0.49
19:Bt:86:ARG:HH11	19:Bt:86:ARG:HG3	1.77	0.49
21:By:22:VAL:C	21:By:24:GLU:H	2.20	0.49
22:Ba:97:G:O2'	22:Ba:98:G:H5"	2.11	0.49
22:Ba:533:A:H1'	22:Ba:535:A:OP2	2.12	0.49
22:Ba:556:C:C2'	22:Ba:557:G:H5'	2.42	0.49
22:Ba:1244:C:H2'	22:Ba:1245:A:C8	2.47	0.49
22:Ba:1319:A:H61	22:Ba:1361:G:H21	1.60	0.49
22:Ba:1376:U:H2'	22:Ba:1377:A:H8	1.76	0.49
23:Bx:10:G:O5'	23:Bx:11:U:P	2.70	0.49
27:BD:10:THR:HG23	27:BD:13:ARG:CB	2.42	0.49
27:BD:206:LEU:HD23	27:BD:211:ARG:NH1	2.27	0.49
28:BE:81:ILE:HG22	28:BE:81:ILE:O	2.12	0.49
30:BG:56:ALA:CB	30:BG:153:ARG:HD2	2.41	0.49
30:BG:121:ASN:ND2	30:BG:122:PRO:HD2	2.27	0.49
36:BP:46:LYS:HD3	57:BA:196:A:C8	2.47	0.49
36:BP:74:GLU:HG2	57:BA:244:A:H4'	1.95	0.49
37:BQ:109:VAL:HG12	37:BQ:113:GLN:HB3	1.95	0.49
39:BS:53:SER:C	39:BS:55:ALA:H	2.19	0.49
39:BS:89:ARG:HG2	39:BS:92:TYR:HA	1.93	0.49
40:BT:70:VAL:CG1	40:BT:71:GLY:N	2.73	0.49
41:BU:16:LYS:O	41:BU:16:LYS:HG2	2.12	0.49
45:BY:88:LYS:HD3	45:BY:93:GLY:H	1.77	0.49
46:BZ:180:VAL:C	46:BZ:182:LYS:N	2.62	0.49
51:B4:11:PRO:HB3	51:B4:25:TYR:HD2	1.75	0.49
53:B6:36:LEU:HD12	53:B6:49:HIS:O	2.11	0.49
54:B7:43:THR:HG23	54:B7:44:PRO:HD2	1.93	0.49
55:B8:4:MET:HG2	57:BA:592:G:O2'	2.12	0.49
57:BA:519:U:H2'	57:BA:520:G:H8	1.77	0.49
57:BA:523:C:H2'	57:BA:524:U:H5'	1.94	0.49
57:BA:1722:A:O2'	57:BA:1739:U:C5'	2.61	0.49
57:BA:2000:G:O2'	57:BA:2001:A:H5'	2.12	0.49
57:BA:2321:G:H2'	57:BA:2321:G:N3	2.27	0.49
57:BA:2657:A:H3'	57:BA:2658:C:H6	1.77	0.49
3:Ad:118:ARG:O	3:Ad:119:GLN:C	2.55	0.49
4:Ae:10:MET:HG2	4:Ae:10:MET:O	2.11	0.49
8:Ai:116:LYS:HZ3	8:Ai:122:ALA:HB2	1.77	0.49
9:Aj:6:ILE:HG22	9:Aj:98:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:36:GLY:HA3	22:Aa:1123:A:C4'	2.43	0.49
22:Aa:299:G:H2'	22:Aa:300:A:C8	2.48	0.49
22:Aa:574:A:HO2'	22:Aa:882:C:HO2'	1.58	0.49
22:Aa:1117:G:H22	22:Aa:1180:A:H1'	1.77	0.49
22:Aa:1442(B):A:C4	40:AT:118:ARG:CZ	2.96	0.49
26:AC:7:ARG:NH2	26:AC:219:MET:HB3	2.27	0.49
27:AD:11:PRO:O	27:AD:13:ARG:N	2.46	0.49
27:AD:71:ASP:CG	27:AD:103:ARG:HH22	2.21	0.49
27:AD:72:LYS:HB3	27:AD:75:ILE:HD12	1.94	0.49
27:AD:144:ALA:HB3	27:AD:192:THR:HG22	1.95	0.49
28:AE:61:ARG:NH2	57:AA:2632:A:O2'	2.45	0.49
29:AF:58:ALA:O	29:AF:59:TYR:O	2.29	0.49
30:AG:35:GLU:HB3	30:AG:160:VAL:HB	1.94	0.49
30:AG:62:LEU:C	30:AG:64:THR:N	2.70	0.49
32:AI:31:LEU:HB2	32:AI:32:PRO:HD3	1.95	0.49
34:AN:79:PRO:C	34:AN:81:GLY:N	2.69	0.49
36:AP:47:ASP:HB3	36:AP:48:PRO:O	2.12	0.49
36:AP:63:PRO:C	36:AP:65:ARG:H	2.20	0.49
36:AP:108:LYS:O	36:AP:110:TYR:N	2.43	0.49
38:AR:4:LEU:O	38:AR:5:LYS:HD3	2.12	0.49
38:AR:29:LEU:HD12	38:AR:116:LEU:HD11	1.93	0.49
41:AU:10:ARG:O	41:AU:11:ARG:C	2.55	0.49
42:AV:47:VAL:O	42:AV:49:THR:O	2.31	0.49
44:AX:14:SER:O	44:AX:17:ALA:N	2.43	0.49
46:AZ:57:ILE:HD12	46:AZ:57:ILE:N	2.28	0.49
46:AZ:120:ILE:HG22	46:AZ:120:ILE:O	2.11	0.49
46:AZ:125:LEU:HG	46:AZ:164:ALA:HB3	1.92	0.49
46:AZ:152:ALA:CA	46:AZ:167:PRO:HB2	2.43	0.49
57:AA:795:C:H2'	57:AA:796:C:H6	1.77	0.49
57:AA:1119:C:H2'	57:AA:1120:G:H8	1.76	0.49
57:AA:2134:A:H61	57:AA:2157:G:C1'	2.17	0.49
57:AA:2405:G:O2'	57:AA:2406:U:P	2.70	0.49
9:Bj:51:ARG:HB3	22:Ba:1060:C:H4'	1.95	0.49
12:Bm:69:GLU:HB3	12:Bm:72:ALA:HB2	1.84	0.49
12:Bm:69:GLU:OE1	12:Bm:72:ALA:HB3	2.13	0.49
13:Bn:25:VAL:HB	13:Bn:39:LEU:CD2	2.43	0.49
16:Bq:40:LYS:HD3	16:Bq:42:TYR:OH	2.12	0.49
18:Bs:22:LEU:O	18:Bs:26:GLY:HA2	2.13	0.49
18:Bs:65:ASN:HA	51:B4:48:ARG:NH1	2.26	0.49
22:Ba:1151:A:O2'	22:Ba:1152:A:H8	1.95	0.49
22:Ba:1152:A:H2'	22:Ba:1153:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:25:THR:HG22	27:BD:26:LYS:HD3	1.94	0.49
27:BD:119:ALA:HB1	27:BD:130:ALA:HB3	1.94	0.49
28:BE:132:HIS:CG	28:BE:135:HIS:NE2	2.80	0.49
29:BF:92:PRO:HB3	57:BA:1248:G:OP2	2.12	0.49
30:BG:47:LYS:HE3	30:BG:81:LYS:HZ1	1.76	0.49
30:BG:67:LYS:NZ	51:B4:3:GLU:HG3	2.26	0.49
35:BO:13:ASN:C	35:BO:15:GLY:H	2.20	0.49
36:BP:16:ARG:CD	36:BP:16:ARG:C	2.79	0.49
37:BQ:39:PRO:O	37:BQ:40:ALA:HB2	2.12	0.49
38:BR:2:ARG:HH22	57:BA:2724:C:P	2.35	0.49
38:BR:100:LEU:C	52:B5:44:THR:HG22	2.38	0.49
39:BS:18:ILE:C	39:BS:20:ARG:H	2.21	0.49
39:BS:34:HIS:CE1	39:BS:54:LEU:HB3	2.48	0.49
42:BV:89:GLN:HG3	57:BA:993:G:O2'	2.12	0.49
55:B8:37:SER:O	55:B8:38:GLY:C	2.54	0.49
57:BA:741:G:O2'	57:BA:742:G:H5'	2.12	0.49
57:BA:1216:G:N2	57:BA:1234:U:H1'	2.27	0.49
57:BA:1477:A:H5'	57:BA:1478:G:OP2	2.12	0.49
57:BA:1509(A):A:H2'	57:BA:1509(B):A:H8	1.77	0.49
58:BB:2:C:H2'	58:BB:3:C:C6	2.47	0.49
58:BB:71:C:C2	58:BB:72:G:C8	3.00	0.49
1:Ab:144:ARG:HA	1:Ab:147:LYS:CB	2.41	0.49
1:Ab:204:ASN:ND2	1:Ab:204:ASN:C	2.70	0.49
2:Ac:94:LEU:HD12	2:Ac:95:THR:N	2.27	0.49
2:Ac:113:ALA:HB3	2:Ac:114:PRO:HD3	1.94	0.49
4:Ae:79:GLU:HA	4:Ae:91:LEU:O	2.11	0.49
12:Am:99:ARG:O	12:Am:100:GLY:O	2.29	0.49
13:An:27:CYS:C	13:An:29:ARG:N	2.67	0.49
22:Aa:328:C:O2'	22:Aa:329:A:P	2.70	0.49
22:Aa:370:C:H2'	22:Aa:371:G:C8	2.47	0.49
22:Aa:1460:A:H2'	22:Aa:1461:G:O4'	2.12	0.49
25:Aw:70:G:HO2'	25:Aw:71:C:H5'	1.76	0.49
26:AC:14:LYS:O	26:AC:29:LEU:HD21	2.13	0.49
27:AD:145:VAL:HG22	27:AD:191:ALA:HB1	1.95	0.49
27:AD:183:ARG:HG3	27:AD:269:PHE:O	2.12	0.49
29:AF:102:PRO:HB2	29:AF:105:VAL:HG23	1.94	0.49
29:AF:164:ARG:HG3	29:AF:175:THR:OG1	2.13	0.49
31:AH:89:ILE:HG22	31:AH:162:ILE:HG22	1.95	0.49
32:AI:72:LEU:O	32:AI:138:ILE:HD12	2.13	0.49
34:AN:131:GLN:HA	34:AN:131:GLN:OE1	2.12	0.49
36:AP:35:HIS:HB3	57:AA:942:G:OP1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:AQ:21:THR:O	37:AQ:23:GLY:N	2.45	0.49
39:AS:28:VAL:HG12	39:AS:29:PHE:N	2.27	0.49
40:AT:64:ARG:HD2	40:AT:73:GLU:CG	2.40	0.49
40:AT:73:GLU:O	40:AT:74:ARG:HG2	2.12	0.49
41:AU:61:TRP:CE2	41:AU:94:ASN:HA	2.48	0.49
42:AV:46:VAL:HG22	42:AV:47:VAL:N	2.24	0.49
47:A0:10:THR:HG21	57:AA:2277:G:OP2	2.12	0.49
47:A0:16:SER:OG	57:AA:2261:C:H3'	2.12	0.49
49:A2:11:GLU:O	49:A2:14:ARG:HB2	2.12	0.49
50:A3:16:PRO:HB2	50:A3:18:ASP:OD1	2.13	0.49
50:A3:52:HIS:CD2	58:AB:83:G:H4'	2.47	0.49
52:A5:40:LYS:HZ2	52:A5:46:CYS:H	1.61	0.49
53:A6:11:LEU:C	53:A6:11:LEU:HD22	2.38	0.49
55:A8:3:LYS:HE3	57:AA:242:G:O5'	2.13	0.49
55:A8:6:THR:HG22	55:A8:61:LEU:CD1	2.42	0.49
57:AA:1385:G:O2'	57:AA:1396:U:C6	2.64	0.49
57:AA:1701:A:H5'	57:AA:1702:G:OP2	2.13	0.49
58:AB:3:C:H2'	58:AB:4:C:C6	2.47	0.49
1:Bb:44:LEU:O	1:Bb:47:THR:HB	2.12	0.49
1:Bb:71:VAL:CB	1:Bb:164:VAL:HG12	2.30	0.49
1:Bb:104:ASN:HB2	22:Ba:1074:G:C4'	2.42	0.49
1:Bb:118:LEU:HD11	1:Bb:141:GLU:OE1	2.12	0.49
2:Bc:113:ALA:HB3	2:Bc:114:PRO:HD3	1.94	0.49
2:Bc:153:VAL:HG12	2:Bc:154:SER:N	2.26	0.49
2:Bc:206:GLU:O	2:Bc:207:VAL:C	2.54	0.49
4:Be:30:ALA:O	4:Be:45:PHE:HA	2.13	0.49
6:Bg:27:ILE:HG22	6:Bg:39:ALA:HB1	1.94	0.49
6:Bg:78:ARG:HG2	6:Bg:79:ARG:N	2.27	0.49
6:Bg:88:PRO:O	6:Bg:89:MET:HB3	2.13	0.49
7:Bh:94:TYR:CG	22:Ba:598:U:H4'	2.48	0.49
9:Bj:42:THR:HA	9:Bj:68:HIS:HA	1.95	0.49
9:Bj:51:ARG:CB	22:Ba:1060:C:H4'	2.42	0.49
9:Bj:91:PRO:HB2	9:Bj:94:VAL:HB	1.95	0.49
14:Bo:76:GLU:O	14:Bo:78:TYR:N	2.46	0.49
15:Bp:20:VAL:HG23	15:Bp:34:GLU:C	2.35	0.49
17:Br:31:LEU:HD23	17:Br:31:LEU:H	1.77	0.49
21:By:28:LYS:C	21:By:30:LEU:H	2.19	0.49
21:By:61:ARG:HG3	21:By:86:VAL:CG2	2.39	0.49
22:Ba:14:U:H2'	22:Ba:16:A:OP2	2.13	0.49
22:Ba:33:A:H2'	22:Ba:34:C:C6	2.46	0.49
22:Ba:93:G:C2'	22:Ba:96:U:H5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:22:THR:OG1	26:BC:25:GLU:HG2	2.12	0.49
28:BE:2:LYS:NZ	28:BE:100:GLU:OE2	2.38	0.49
32:BI:1:MET:HE3	32:BI:23:PRO:HA	1.94	0.49
34:BN:58:ASP:O	34:BN:59:LYS:HB2	2.13	0.49
36:BP:16:ARG:HG3	36:BP:17:LYS:N	2.27	0.49
37:BQ:110:THR:HG23	37:BQ:113:GLN:CB	2.42	0.49
41:BU:57:PHE:C	41:BU:59:ARG:H	2.20	0.49
41:BU:60:LEU:HD22	41:BU:60:LEU:O	2.12	0.49
44:BX:73:ARG:HH22	57:BA:1337:G:P	2.35	0.49
45:BY:4:LYS:CG	45:BY:5:MET:H	2.25	0.49
45:BY:10:GLY:O	45:BY:27:VAL:HG22	2.12	0.49
45:BY:35:TYR:CD2	45:BY:69:ALA:HB3	2.48	0.49
45:BY:44:ILE:N	45:BY:62:GLU:OE1	2.45	0.49
48:B1:91:LYS:O	48:B1:92:LYS:C	2.54	0.49
52:B5:7:PRO:HA	57:BA:2615:U:N1	2.28	0.49
55:B8:23:VAL:CG1	55:B8:46:ARG:HB3	2.43	0.49
57:BA:484:C:H2'	57:BA:485:C:C6	2.48	0.49
57:BA:987:G:O2'	57:BA:1000:A:N3	2.43	0.49
57:BA:1387:C:H5'	57:BA:1469:A:H4'	1.95	0.49
57:BA:1496:A:C8	57:BA:1577:C:O2'	2.64	0.49
57:BA:2134:A:N3	57:BA:2159:G:H1'	2.27	0.49
57:BA:2312:U:C2'	57:BA:2313:C:H5"	2.41	0.49
57:BA:2481:G:O2'	57:BA:2482:G:P	2.70	0.49
57:BA:2639:A:H2'	57:BA:2640:G:H5'	1.93	0.49
57:BA:2779:U:H4'	57:BA:2780:G:H5'	1.94	0.49
1:Ab:60:ASP:O	1:Ab:64:ARG:HG2	2.13	0.49
1:Ab:131:PRO:HG2	1:Ab:134:GLU:HG2	1.94	0.49
2:Ac:130:VAL:HG21	2:Ac:157:ILE:HG23	1.94	0.49
8:Ai:104:ARG:O	8:Ai:105:ASP:CB	2.33	0.49
8:Ai:125:TYR:HD2	8:Ai:126:SER:N	2.10	0.49
11:Al:83:VAL:HG12	11:Al:84:LEU:H	1.78	0.49
12:Am:112:GLY:O	12:Am:113:PRO:O	2.30	0.49
12:Am:116:THR:O	12:Am:117:VAL:O	2.30	0.49
15:Ap:28:ARG:C	15:Ap:30:GLY:H	2.21	0.49
16:Aq:74:LEU:HD12	16:Aq:75:ARG:HG2	1.95	0.49
16:Aq:99:SER:C	16:Aq:100:LYS:HG3	2.38	0.49
17:Ar:58:LEU:H	17:Ar:58:LEU:CD1	2.21	0.49
18:As:53:ASN:O	18:As:77:THR:HG22	2.13	0.49
18:As:78:ARG:NH2	22:Aa:1223:C:P	2.81	0.49
22:Aa:715:A:O2'	22:Aa:716:A:H5'	2.12	0.49
22:Aa:1342:C:O2'	22:Aa:1343:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:65:ILE:HD13	27:AD:65:ILE:C	2.38	0.49
27:AD:76:PRO:HG2	27:AD:98:VAL:CG2	2.42	0.49
28:AE:78:LEU:O	28:AE:78:LEU:HD12	2.12	0.49
28:AE:111:ARG:HB2	28:AE:160:TYR:O	2.13	0.49
28:AE:163:GLU:O	28:AE:165:VAL:HG23	2.12	0.49
30:AG:63:ILE:CG2	30:AG:141:PHE:HB3	2.41	0.49
30:AG:111:LEU:CB	30:AG:112:PRO:HD3	2.41	0.49
31:AH:109:PHE:C	31:AH:111:HIS:N	2.71	0.49
32:AI:10:GLU:OE1	32:AI:11:ASN:HB2	2.12	0.49
32:AI:98:ALA:O	32:AI:101:LEU:HB2	2.12	0.49
32:AI:129:THR:CG2	32:AI:130:TYR:N	2.75	0.49
35:AO:103:ALA:C	35:AO:105:GLU:N	2.70	0.49
36:AP:99:LEU:HA	36:AP:102:ARG:NH2	2.25	0.49
38:AR:5:LYS:HB2	57:AA:2722:G:O2'	2.12	0.49
38:AR:55:ALA:HA	38:AR:80:PHE:CE1	2.47	0.49
41:AU:107:ALA:O	41:AU:110:VAL:HB	2.11	0.49
45:AY:47:LYS:O	45:AY:48:ALA:C	2.54	0.49
46:AZ:56:VAL:CG2	46:AZ:70:LEU:HG	2.43	0.49
46:AZ:103:ARG:HG3	46:AZ:103:ARG:NH1	2.26	0.49
48:A1:19:GLN:HA	48:A1:19:GLN:NE2	2.13	0.49
51:A4:14:ILE:O	51:A4:21:VAL:HA	2.12	0.49
52:A5:54:GLY:N	52:A5:55:ARG:HH21	2.10	0.49
56:A9:10:ILE:HD12	56:A9:32:HIS:CB	2.42	0.49
56:A9:17:ILE:HG13	56:A9:26:ILE:HD12	1.94	0.49
57:AA:1317:A:H2'	57:AA:1318:C:C6	2.47	0.49
1:Bb:115:LEU:HD22	1:Bb:145:LEU:HD12	1.95	0.49
7:Bh:97:VAL:N	22:Ba:600:C:OP1	2.44	0.49
8:Bi:7:THR:N	8:Bi:83:ARG:HD2	2.28	0.49
10:Bk:121:PRO:HD2	10:Bk:126:ARG:HG3	1.95	0.49
22:Ba:18:C:H2'	22:Ba:19:C:H6	1.77	0.49
22:Ba:57:G:H2'	22:Ba:58:C:H6	1.75	0.49
22:Ba:1002:G:H3'	22:Ba:1003:G:C8	2.47	0.49
22:Ba:1342:C:O2'	22:Ba:1343:G:H5'	2.12	0.49
26:BC:186:LEU:C	26:BC:188:ASP:H	2.21	0.49
27:BD:108:PRO:HG2	27:BD:111:LEU:HD23	1.94	0.49
30:BG:137:GLU:HA	30:BG:152:LEU:CD1	2.40	0.49
33:BJ:125:LEU:C	33:BJ:127:GLU:H	2.20	0.49
35:BO:2:ILE:HD11	35:BO:82:ASN:HB3	1.93	0.49
36:BP:13:ASN:C	36:BP:13:ASN:ND2	2.70	0.49
38:BR:13:HIS:O	38:BR:14:SER:C	2.55	0.49
40:BT:123:GLN:O	40:BT:127:ALA:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:17:VAL:O	43:BW:18:ARG:C	2.54	0.49
45:BY:18:GLY:C	45:BY:20:TYR:N	2.68	0.49
45:BY:50:ARG:NE	57:BA:484:C:OP1	2.45	0.49
46:BZ:93:ASP:O	46:BZ:130:PRO:HD2	2.13	0.49
47:B0:23:VAL:HG12	47:B0:25:ARG:O	2.13	0.49
48:B1:68:PRO:C	48:B1:70:VAL:N	2.69	0.49
48:B1:68:PRO:HG2	48:B1:69:LYS:H	1.78	0.49
51:B4:31:ILE:HD12	51:B4:31:ILE:N	2.28	0.49
53:B6:11:LEU:HD13	53:B6:11:LEU:H	1.77	0.49
57:BA:394:A:C2'	57:BA:395:U:H5'	2.41	0.49
57:BA:554:U:O2'	57:BA:555:U:H5'	2.13	0.49
57:BA:828:U:C5	57:BA:829:A:N6	2.81	0.49
57:BA:836:G:H2'	57:BA:837:C:H6	1.77	0.49
57:BA:1794:U:O2'	57:BA:1795:C:H5'	2.13	0.49
57:BA:1821:A:H2'	57:BA:1822:G:C8	2.48	0.49
57:BA:2302:G:H4'	57:BA:2302:G:OP1	2.13	0.49
58:BB:81:G:H2'	58:BB:82:G:C5'	2.43	0.49
1:Ab:53:ARG:NH1	1:Ab:199:TYR:CD2	2.81	0.49
1:Ab:178:ARG:NH2	7:Ah:74:PRO:HB3	2.28	0.49
2:Ac:135:LYS:NZ	4:Ae:53:LEU:HD11	2.28	0.49
2:Ac:153:VAL:CG1	2:Ac:154:SER:N	2.76	0.49
3:Ad:114:ARG:O	3:Ad:117:ALA:HB3	2.13	0.49
3:Ad:149:ALA:O	3:Ad:153:ARG:HG3	2.12	0.49
5:Af:6:VAL:HG13	5:Af:90:VAL:HG22	1.93	0.49
6:Ag:64:GLN:O	6:Ag:65:ALA:C	2.56	0.49
8:Ai:17:VAL:HG21	8:Ai:80:GLY:HA3	1.94	0.49
9:Aj:70:ARG:NH2	22:Aa:1152:A:H5'	2.26	0.49
12:Am:7:VAL:O	12:Am:9:ILE:HD12	2.12	0.49
12:Am:110:ARG:HD2	22:Aa:1308:U:H5'	1.95	0.49
15:Ap:22:THR:HA	15:Ap:33:ILE:CG1	2.30	0.49
22:Aa:59:A:H3'	22:Aa:331:G:H22	1.77	0.49
22:Aa:644:G:O2'	22:Aa:645:C:H5'	2.13	0.49
22:Aa:849:C:O2'	22:Aa:850:U:H5'	2.13	0.49
22:Aa:880:C:H2'	22:Aa:881:G:H8	1.77	0.49
22:Aa:1067:A:H8	22:Aa:1067:A:O5'	1.95	0.49
22:Aa:1202:G:H2'	22:Aa:1203:C:O4'	2.12	0.49
22:Aa:1452:C:OP2	22:Aa:1456:G:C6	2.66	0.49
27:AD:49:ILE:HG22	57:AA:779:U:P	2.52	0.49
27:AD:122:ASP:O	27:AD:123:ALA:O	2.31	0.49
27:AD:137:PRO:HB2	27:AD:140:THR:HG23	1.95	0.49
28:AE:93:VAL:C	28:AE:95:ILE:N	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:131:ALA:CB	57:AA:2579:C:O2'	2.61	0.49
29:AF:20:LEU:O	29:AF:21:ALA:O	2.30	0.49
30:AG:16:ARG:CZ	30:AG:28:VAL:HG11	2.43	0.49
32:AI:2:LYS:HA	32:AI:20:ASP:HA	1.94	0.49
34:AN:43:THR:HB	34:AN:46:VAL:CG1	2.43	0.49
37:AQ:54:MET:SD	37:AQ:118:LEU:HD23	2.53	0.49
40:AT:38:ASN:C	40:AT:40:THR:H	2.20	0.49
41:AU:91:ASP:O	41:AU:95:LEU:HB2	2.12	0.49
46:AZ:19:ARG:NH1	46:AZ:84:GLU:HA	2.28	0.49
46:AZ:146:ILE:HD12	57:AA:896:A:C4	2.47	0.49
52:A5:35:GLU:O	52:A5:49:CYS:HB2	2.12	0.49
57:AA:11:G:H22	57:AA:2628:C:P	2.36	0.49
57:AA:1167:U:C2	57:AA:1183:G:N2	2.80	0.49
57:AA:1179:C:H2'	57:AA:1180:C:C6	2.48	0.49
57:AA:1665:A:C2'	57:AA:1666:G:H5'	2.43	0.49
57:AA:1786:A:C2	57:AA:2606:C:H1'	2.48	0.49
57:AA:2294:C:N4	57:AA:2338:G:H1	2.07	0.49
57:AA:2736:G:O2'	57:AA:2737:G:H5'	2.12	0.49
57:AA:2855:C:H2'	57:AA:2856:C:C6	2.40	0.49
2:Bc:52:LEU:HD23	2:Bc:52:LEU:N	2.28	0.49
8:Bi:19:LEU:HD21	8:Bi:61:ALA:HB2	1.94	0.49
14:Bo:32:LEU:O	14:Bo:33:THR:C	2.55	0.49
22:Ba:429:U:H4'	22:Ba:430:A:O5'	2.12	0.49
22:Ba:1004:A:H2'	22:Ba:1037:C:O2	2.12	0.49
22:Ba:1161:C:H2'	22:Ba:1162:C:C6	2.48	0.49
27:BD:65:ILE:HD13	27:BD:65:ILE:C	2.37	0.49
27:BD:268:ARG:HH11	27:BD:268:ARG:CB	2.25	0.49
29:BF:40:GLN:HG2	57:BA:615:G:OP2	2.13	0.49
30:BG:168:GLU:O	30:BG:169:ALA:C	2.55	0.49
34:BN:65:LYS:HG3	34:BN:69:GLN:HG3	1.95	0.49
34:BN:111:PRO:HD2	57:BA:558:G:OP1	2.12	0.49
36:BP:7:ARG:C	36:BP:9:ASN:H	2.19	0.49
36:BP:95:VAL:CG2	36:BP:125:VAL:HG23	2.43	0.49
37:BQ:55:VAL:HB	46:BZ:178:GLU:HG3	1.94	0.49
42:BV:15:GLU:CB	42:BV:16:PRO:HD2	2.43	0.49
44:BX:9:LEU:O	49:B2:36:ARG:HD2	2.13	0.49
46:BZ:24:LEU:HD22	46:BZ:86:VAL:HG23	1.94	0.49
52:B5:49:CYS:O	52:B5:50:GLY:C	2.55	0.49
53:B6:17:LYS:O	53:B6:18:ARG:O	2.30	0.49
57:BA:221:A:H61	57:BA:265:A:H8	1.60	0.49
57:BA:795:C:H2'	57:BA:796:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1484:G:N2	57:BA:1505:C:N4	2.61	0.49
57:BA:2248:C:H2'	57:BA:2249:U:H5'	1.95	0.49
1:Ab:224:GLN:HB2	1:Ab:229:VAL:HG22	1.94	0.49
3:Ad:10:ARG:NH2	22:Aa:542:G:OP1	2.46	0.49
4:Ae:73:ASN:ND2	4:Ae:73:ASN:N	2.57	0.49
12:Am:102:ARG:NH1	22:Aa:951:G:OP2	2.46	0.49
15:Ap:4:ILE:HD11	15:Ap:64:ALA:HB3	1.94	0.49
15:Ap:20:VAL:HG23	15:Ap:34:GLU:C	2.37	0.49
16:Aq:22:LEU:HD11	16:Aq:39:SER:CB	2.41	0.49
19:At:47:GLY:O	19:At:49:ALA:N	2.45	0.49
21:Ay:44:LEU:O	21:Ay:45:ARG:HG3	2.13	0.49
22:Aa:818:G:C3'	22:Aa:819:A:H5"	2.43	0.49
27:AD:21:PHE:HB3	27:AD:24:ILE:HD12	1.94	0.49
27:AD:43:ARG:NH1	27:AD:44:ASN:ND2	2.61	0.49
30:AG:29:TRP:CE3	30:AG:29:TRP:HA	2.47	0.49
31:AH:94:TYR:N	31:AH:94:TYR:CD1	2.80	0.49
36:AP:97:PRO:O	36:AP:98:GLU:HB3	2.12	0.49
40:AT:29:ARG:HB3	40:AT:85:LYS:HA	1.94	0.49
46:AZ:56:VAL:HG22	46:AZ:69:THR:O	2.13	0.49
49:A2:50:ILE:O	49:A2:51:ARG:C	2.54	0.49
49:A2:64:LEU:CD2	49:A2:68:ARG:HD3	2.43	0.49
50:A3:19:GLN:NE2	50:A3:52:HIS:CE1	2.77	0.49
51:A4:19:GLY:O	51:A4:20:ASN:C	2.56	0.49
51:A4:27:THR:O	51:A4:27:THR:HG23	2.13	0.49
53:A6:26:ASN:ND2	53:A6:51:GLU:OE1	2.45	0.49
54:A7:5:TRP:NE1	54:A7:7:PRO:HD3	2.28	0.49
57:AA:234:C:H2'	57:AA:235:U:C6	2.44	0.49
57:AA:731:C:H2'	57:AA:732:C:H6	1.78	0.49
57:AA:946:G:O2'	57:AA:947:G:H5'	2.13	0.49
57:AA:1021:A:O2'	57:AA:1123:C:H5"	2.13	0.49
57:AA:1509(A):A:H2'	57:AA:1509(B):A:C8	2.48	0.49
57:AA:2134:A:N3	57:AA:2159:G:H1'	2.28	0.49
1:Bb:98:LEU:O	1:Bb:101:MET:HG2	2.13	0.49
3:Bd:23:GLY:H	3:Bd:26:CYS:HB2	1.78	0.49
4:Be:36:ASP:O	4:Be:37:ARG:CG	2.60	0.49
10:Bk:82:VAL:HB	10:Bk:108:ILE:HG13	1.95	0.49
12:Bm:56:LEU:HD13	12:Bm:56:LEU:C	2.38	0.49
12:Bm:108:ARG:CZ	12:Bm:114:ARG:CD	2.90	0.49
14:Bo:86:GLY:O	14:Bo:87:ILE:HG23	2.12	0.49
22:Ba:630:G:H3'	22:Ba:631:G:H5"	1.91	0.49
22:Ba:1109:C:O2'	22:Ba:1110:A:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1124:G:N2	22:Ba:1126:U:H3	2.09	0.49
22:Ba:1267:C:H2'	22:Ba:1267:C:O2	2.13	0.49
22:Ba:1276:G:C2'	22:Ba:1277:C:H5'	2.43	0.49
29:BF:8:GLN:HG2	29:BF:126:VAL:CB	2.43	0.49
29:BF:63:LYS:CE	29:BF:67:GLN:HB2	2.43	0.49
29:BF:101:LEU:HD12	29:BF:102:PRO:CD	2.41	0.49
34:BN:41:ASP:O	34:BN:42:TRP:C	2.55	0.49
36:BP:33:ARG:CZ	57:BA:587:C:C2'	2.84	0.49
36:BP:64:LYS:HB2	55:B8:25:MET:HG3	1.91	0.49
36:BP:144:GLU:N	36:BP:145:PRO:CD	2.70	0.49
37:BQ:42:ILE:HG22	37:BQ:47:ILE:HG13	1.93	0.49
41:BU:13:LYS:HE2	41:BU:13:LYS:CA	2.43	0.49
45:BY:28:LYS:N	45:BY:28:LYS:CE	2.76	0.49
45:BY:39:VAL:CG1	45:BY:40:GLU:N	2.69	0.49
45:BY:88:LYS:CE	45:BY:93:GLY:HA3	2.42	0.49
51:B4:51:ASP:OD2	51:B4:51:ASP:C	2.55	0.49
51:B4:51:ASP:OD2	51:B4:52:THR:HG23	2.12	0.49
54:B7:5:TRP:NE1	54:B7:7:PRO:HD3	2.28	0.49
56:B9:30:PRO:HB2	57:BA:2527:C:H4'	1.94	0.49
57:BA:30:G:O2'	57:BA:31:C:H5'	2.13	0.49
57:BA:225:A:H2'	57:BA:226:G:H5'	1.95	0.49
57:BA:1049:C:N4	57:BA:1111:A:H2	2.09	0.49
57:BA:1924:C:O2'	57:BA:1925:C:H5'	2.12	0.49
57:BA:2143:C:O2'	57:BA:2144:U:H5'	2.12	0.49
58:BB:3:C:H2'	58:BB:4:C:C6	2.48	0.49
2:Ac:46:GLU:O	2:Ac:47:LEU:HB2	2.13	0.49
3:Ad:79:PHE:CD1	3:Ad:207:TYR:CD1	3.01	0.49
4:Ae:69:VAL:HG11	4:Ae:113:ALA:HB1	1.95	0.49
5:Af:18:GLN:O	5:Af:21:LEU:HB2	2.13	0.49
7:Ah:19:VAL:HG21	7:Ah:21:LYS:HE2	1.95	0.49
8:Ai:102:LEU:HD23	8:Ai:102:LEU:C	2.38	0.49
9:Aj:12:ASP:OD1	9:Aj:15:THR:HG23	2.12	0.49
11:Al:114:LYS:HB2	22:Aa:538:G:H5"	1.95	0.49
12:Am:48:LEU:HD11	12:Am:53:VAL:HG22	1.94	0.49
19:At:103:GLY:N	22:Aa:192:U:C4'	2.76	0.49
19:At:105:SER:HB3	22:Aa:191:G:N9	2.27	0.49
22:Aa:149:A:O2'	22:Aa:150:C:C6	2.66	0.49
22:Aa:556:C:C2'	22:Aa:557:G:H5'	2.42	0.49
22:Aa:729:A:H2'	22:Aa:730:G:C8	2.48	0.49
22:Aa:769:G:H4'	22:Aa:1513:A:H4'	1.95	0.49
22:Aa:858:G:O6	22:Aa:869:G:H3'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1002:G:H3'	22:Aa:1003:G:C8	2.48	0.49
22:Aa:1408:A:H2'	22:Aa:1409:C:H6	1.77	0.49
22:Aa:1479:C:H2'	22:Aa:1480:G:H8	1.78	0.49
22:Aa:1516:G:N1	22:Aa:1519:A:OP2	2.45	0.49
26:AC:31:LYS:HE2	26:AC:180:SER:O	2.13	0.49
27:AD:117:VAL:HG22	27:AD:129:ASN:OD1	2.13	0.49
27:AD:201:HIS:O	27:AD:203:ASN:N	2.46	0.49
28:AE:7:VAL:CG1	28:AE:27:LEU:HB3	2.43	0.49
28:AE:179:GLU:O	28:AE:180:ASN:HB2	2.11	0.49
30:AG:145:THR:OG1	30:AG:146:TYR:N	2.44	0.49
36:AP:38:GLN:HB3	57:AA:943:U:OP1	2.12	0.49
36:AP:74:GLU:HG2	57:AA:244:A:H4'	1.93	0.49
36:AP:79:ARG:HG3	36:AP:110:TYR:CB	2.43	0.49
38:AR:4:LEU:HD23	57:AA:2822:G:O6	2.13	0.49
38:AR:103:ARG:CD	43:AW:40:ASN:ND2	2.75	0.49
39:AS:29:PHE:CE1	58:AB:7:G:O5'	2.66	0.49
40:AT:7:ILE:O	40:AT:10:VAL:HB	2.13	0.49
40:AT:65:LYS:HG3	40:AT:66:VAL:N	2.28	0.49
46:AZ:24:LEU:HD23	46:AZ:25:PRO:C	2.37	0.49
46:AZ:34:ASN:C	46:AZ:34:ASN:ND2	2.71	0.49
56:A9:30:PRO:O	56:A9:31:LYS:C	2.55	0.49
57:AA:830:G:H4'	57:AA:831:G:OP2	2.12	0.49
57:AA:1947:C:C3'	57:AA:1948:G:H5"	2.42	0.49
3:Bd:118:ARG:O	3:Bd:119:GLN:C	2.56	0.49
6:Bg:69:VAL:C	6:Bg:138:LYS:HG3	2.38	0.49
8:Bi:102:LEU:O	8:Bi:103:THR:O	2.30	0.49
8:Bi:118:LYS:NZ	22:Ba:1349:A:P	2.86	0.49
12:Bm:13:LYS:HA	12:Bm:44:ARG:NH1	2.21	0.49
12:Bm:62:ASN:O	12:Bm:63:THR:O	2.30	0.49
12:Bm:65:LYS:HA	12:Bm:66:LEU:HD23	1.94	0.49
12:Bm:69:GLU:HB2	12:Bm:72:ALA:CB	2.25	0.49
13:Bn:24:CYS:HB3	13:Bn:27:CYS:O	2.13	0.49
13:Bn:27:CYS:SG	13:Bn:27:CYS:O	2.71	0.49
13:Bn:32:SER:O	13:Bn:40:CYS:HA	2.12	0.49
22:Ba:126:G:OP1	22:Ba:605:U:O2'	2.26	0.49
22:Ba:142:G:H2'	22:Ba:143:A:H8	1.78	0.49
22:Ba:826:C:H2'	22:Ba:827:U:C6	2.48	0.49
22:Ba:1363(A):A:H1'	22:Ba:1365:G:N7	2.27	0.49
22:Ba:1418:A:C2	22:Ba:1483:A:C2	3.00	0.49
22:Ba:1439:C:H2'	22:Ba:1439:C:O2	2.13	0.49
23:Bx:20:A:O5'	23:Bx:20:A:H8	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:45:HIS:HB3	57:BA:2177:C:H1'	1.94	0.49
29:BF:20:LEU:O	29:BF:21:ALA:O	2.30	0.49
29:BF:125:LEU:HD13	29:BF:199:TRP:CG	2.48	0.49
31:BH:17:VAL:O	31:BH:45:VAL:HG22	2.12	0.49
32:BI:73:GLU:OE1	32:BI:137:PRO:HD2	2.12	0.49
32:BI:140:LEU:O	32:BI:141:LYS:HD3	2.12	0.49
34:BN:2:LYS:HZ3	42:BV:13:ARG:H	1.60	0.49
34:BN:46:VAL:O	34:BN:47:ALA:CB	2.61	0.49
36:BP:97:PRO:O	36:BP:98:GLU:HB3	2.12	0.49
40:BT:3:ARG:HE	57:BA:2876:G:C4'	2.25	0.49
40:BT:23:ARG:HB2	40:BT:24:PRO:HD2	1.95	0.49
40:BT:35:LYS:HE2	40:BT:41:ARG:HE	1.77	0.49
42:BV:29:PRO:O	42:BV:61:VAL:O	2.30	0.49
43:BW:9:TYR:N	43:BW:102:HIS:HD2	2.11	0.49
44:BX:23:GLU:O	44:BX:25:LYS:N	2.42	0.49
44:BX:29:TRP:CE3	44:BX:78:LYS:HB3	2.48	0.49
45:BY:31:LEU:N	45:BY:31:LEU:CD2	2.74	0.49
46:BZ:13:GLU:N	46:BZ:13:GLU:OE1	2.46	0.49
47:B0:19:LYS:HD3	47:B0:41:ARG:HH22	1.78	0.49
48:B1:47:GLN:HG3	57:BA:2091:U:O2'	2.12	0.49
48:B1:68:PRO:O	48:B1:70:VAL:N	2.45	0.49
56:B9:22:ARG:HB2	56:B9:24:TYR:HE1	1.78	0.49
57:BA:57:C:O2'	57:BA:58:G:H5'	2.12	0.49
57:BA:65:C:HO2'	57:BA:66:C:H5'	1.76	0.49
57:BA:142:A:H8	57:BA:1595:G:H21	1.60	0.49
57:BA:185:U:H2'	57:BA:186:G:C8	2.48	0.49
57:BA:225:A:C2'	57:BA:226:G:H5'	2.42	0.49
57:BA:1339:G:N2	57:BA:1603:A:H1'	2.27	0.49
57:BA:2300:G:H1	57:BA:2316:C:H42	1.60	0.49
57:BA:2518:A:C8	57:BA:2518:A:H5'	2.47	0.49
1:Ab:115:LEU:HD22	1:Ab:145:LEU:HD12	1.95	0.49
1:Ab:142:LEU:HD21	1:Ab:146:GLN:NE2	2.28	0.49
2:Ac:179:ARG:HG3	2:Ac:179:ARG:HH11	1.77	0.49
3:Ad:21:LEU:O	3:Ad:113:SER:HB2	2.12	0.49
5:Af:24:GLU:HG2	5:Af:28:ARG:NH1	2.28	0.49
8:Ai:50:LEU:HD23	8:Ai:85:LEU:HD23	1.95	0.49
8:Ai:53:VAL:CG1	8:Ai:95:LYS:HE3	2.36	0.49
9:Aj:42:THR:OG1	22:Aa:1151:A:H5"	2.13	0.49
9:Aj:55:LYS:HG2	22:Aa:972:C:H2'	1.95	0.49
11:Al:121:GLY:HA2	22:Aa:35:G:O2'	2.12	0.49
12:Am:70:LEU:O	12:Am:71:ARG:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Am:115:LYS:O	12:Am:117:VAL:N	2.45	0.49
13:An:23:ARG:HD2	13:An:28:GLY:O	2.13	0.49
21:Ay:49:ASP:O	21:Ay:50:CYS:HB2	2.12	0.49
22:Aa:41:G:H2'	22:Aa:42:G:C8	2.45	0.49
22:Aa:385:C:O2'	22:Aa:386:C:H5'	2.12	0.49
22:Aa:397:A:H3'	22:Aa:397:A:N3	2.28	0.49
22:Aa:444:C:H2'	22:Aa:445:G:H8	1.78	0.49
22:Aa:526:C:C5	22:Aa:527:G:H1'	2.48	0.49
22:Aa:1306:A:O2'	22:Aa:1307:U:H5'	2.13	0.49
22:Aa:1339:A:H2'	22:Aa:1340:A:O4'	2.13	0.49
22:Aa:1503:A:O2'	22:Aa:1504:G:O5'	2.30	0.49
28:AE:52:LEU:N	28:AE:74:PRO:HB3	2.28	0.49
28:AE:117:MET:O	28:AE:118:LYS:CB	2.61	0.49
35:AO:67:LYS:NZ	57:AA:2726:U:H6	2.09	0.49
42:AV:29:PRO:O	42:AV:61:VAL:O	2.31	0.49
48:A1:67:ILE:N	48:A1:68:PRO:HD2	2.28	0.49
53:A6:41:PRO:HG3	53:A6:44:ARG:HH12	1.77	0.49
57:AA:89:G:H3'	57:AA:90:U:H5'	1.95	0.49
57:AA:743:G:O2'	57:AA:744:G:H5'	2.13	0.49
57:AA:2162:G:O2'	57:AA:2163:C:H5'	2.12	0.49
57:AA:2518:A:H5'	57:AA:2518:A:C8	2.48	0.49
58:AB:87:G:C2'	58:AB:88:C:H5"	2.43	0.49
1:Bb:216:SER:O	1:Bb:218:ALA:N	2.46	0.49
3:Bd:91:SER:O	3:Bd:94:LEU:N	2.46	0.49
3:Bd:106:TYR:C	3:Bd:108:LEU:H	2.21	0.49
5:Bf:4:TYR:CD1	5:Bf:92:LYS:HA	2.48	0.49
9:Bj:31:GLY:HA3	9:Bj:78:ASN:CG	2.37	0.49
10:Bk:58:PRO:HA	10:Bk:90:GLY:HA3	1.94	0.49
15:Bp:69:THR:HG21	22:Ba:375:U:OP1	2.12	0.49
20:Bu:2:GLY:C	20:Bu:4:GLY:N	2.65	0.49
21:By:3:TYR:HB3	21:By:73:VAL:CG2	2.43	0.49
22:Ba:514:C:H2'	22:Ba:515:G:H8	1.78	0.49
22:Ba:724:G:O2'	22:Ba:725:G:H5'	2.12	0.49
25:Bw:4:G:O2'	25:Bw:5:G:C8	2.65	0.49
26:BC:6:LYS:HD3	57:BA:2132:U:N3	2.27	0.49
27:BD:31:LYS:HB3	27:BD:34:VAL:CG2	2.42	0.49
28:BE:61:ARG:NH2	57:BA:2632:A:O2'	2.46	0.49
29:BF:102:PRO:HB2	29:BF:105:VAL:HG23	1.95	0.49
31:BH:7:LEU:CD2	31:BH:69:ARG:CD	2.90	0.49
31:BH:50:VAL:CG1	31:BH:51:ARG:H	2.25	0.49
31:BH:170:ARG:H	31:BH:170:ARG:CD	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:79:ARG:HG3	36:BP:110:TYR:CB	2.43	0.49
39:BS:99:LYS:O	39:BS:101:LEU:HD12	2.13	0.49
44:BX:64:LYS:HZ3	44:BX:73:ARG:CZ	2.26	0.49
45:BY:77:PRO:O	45:BY:78:ALA:HB2	2.13	0.49
46:BZ:34:ASN:HD21	58:BB:74:U:H1'	1.78	0.49
48:B1:89:GLU:HA	48:B1:92:LYS:CB	2.43	0.49
53:B6:5:VAL:HG11	57:BA:2284:C:OP1	2.13	0.49
53:B6:52:VAL:CG2	53:B6:53:LYS:H	2.25	0.49
54:B7:28:ARG:HG3	54:B7:28:ARG:HH11	1.77	0.49
57:BA:2123:G:H2'	57:BA:2124:G:H8	1.78	0.49
57:BA:2696:U:H2'	57:BA:2697:G:C8	2.48	0.49
58:BB:8:U:H3	58:BB:113:G:H1	1.61	0.49
1:Ab:194:PRO:HG2	1:Ab:195:ASP:H	1.78	0.48
2:Ac:20:SER:CB	2:Ac:40:ARG:HH22	2.24	0.48
5:Af:2:ARG:NH2	5:Af:69:GLU:HG3	2.28	0.48
8:Ai:124:GLN:HE22	22:Aa:942:G:H21	1.60	0.48
13:An:41:ARG:O	13:An:45:ARG:HB2	2.13	0.48
15:Ap:23:ASP:O	15:Ap:26:ARG:HB2	2.13	0.48
22:Aa:21:G:H2'	22:Aa:22:G:C8	2.47	0.48
22:Aa:166:G:O2'	22:Aa:167:G:H5'	2.12	0.48
22:Aa:403:C:O2'	22:Aa:404:U:H5'	2.13	0.48
26:AC:6:LYS:C	26:AC:8:TYR:H	2.20	0.48
27:AD:268:ARG:H	27:AD:270:ILE:HD11	1.76	0.48
28:AE:34:VAL:HG11	28:AE:78:LEU:HD22	1.95	0.48
29:AF:9:ILE:HG22	29:AF:11:VAL:C	2.38	0.48
29:AF:89:VAL:C	29:AF:91:GLY:H	2.20	0.48
31:AH:9:ILE:C	31:AH:9:ILE:CD1	2.86	0.48
34:AN:23:LEU:HD23	57:AA:1140:C:OP1	2.13	0.48
34:AN:132:ALA:O	34:AN:133:GLN:HB3	2.13	0.48
36:AP:59:LEU:HA	36:AP:61:ARG:HH11	1.67	0.48
37:AQ:39:PRO:O	37:AQ:40:ALA:HB2	2.12	0.48
37:AQ:134:ARG:NE	46:AZ:122:ARG:HH21	2.11	0.48
38:AR:36:THR:HG22	57:AA:1278:A:C5'	2.42	0.48
39:AS:34:HIS:CE1	39:AS:54:LEU:HB3	2.48	0.48
44:AX:3:THR:HA	44:AX:6:ASP:OD2	2.12	0.48
49:A2:50:ILE:HG22	49:A2:51:ARG:N	2.27	0.48
52:A5:51:TYR:HB3	52:A5:55:ARG:HD3	1.95	0.48
54:A7:43:THR:HG23	54:A7:44:PRO:HD2	1.95	0.48
57:AA:654(H):G:N2	57:AA:654(J):A:C8	2.78	0.48
57:AA:908:C:O2'	57:AA:909:A:H5'	2.13	0.48
57:AA:1339:G:H21	57:AA:1603:A:H1'	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1339:G:N2	57:AA:1603:A:H1'	2.27	0.48
57:AA:1579:A:H2'	57:AA:1580:A:O4'	2.12	0.48
57:AA:1582:C:O2'	57:AA:1586:A:C8	2.66	0.48
57:AA:2143:C:O2'	57:AA:2144:U:H5'	2.13	0.48
57:AA:2247:A:O2'	57:AA:2248:C:H5'	2.13	0.48
57:AA:2728:U:C2'	57:AA:2729:G:H5'	2.42	0.48
57:AA:2853:C:H2'	57:AA:2854:G:H8	1.77	0.48
57:AA:2861:G:O2'	57:AA:2862:G:H5'	2.13	0.48
58:AB:3:C:N3	58:AB:118:G:N2	2.61	0.48
58:AB:71:C:C2	58:AB:72:G:C8	3.01	0.48
2:Bc:94:LEU:HD12	2:Bc:95:THR:N	2.27	0.48
2:Bc:173:VAL:O	2:Bc:173:VAL:HG12	2.13	0.48
3:Bd:56:VAL:HG12	3:Bd:202:LEU:HD13	1.95	0.48
3:Bd:157:LEU:O	3:Bd:161:ASN:ND2	2.45	0.48
4:Be:122:GLU:OE2	22:Ba:9:G:H5"	2.13	0.48
5:Bf:96:PRO:HB3	17:Br:30:ASP:CG	2.38	0.48
7:Bh:63:LEU:HD22	7:Bh:63:LEU:N	2.23	0.48
11:Bl:41:ARG:CB	11:Bl:41:ARG:NH1	2.74	0.48
14:Bo:54:ARG:HD2	22:Ba:728:A:C5	2.47	0.48
14:Bo:65:ARG:HH11	14:Bo:65:ARG:CG	2.25	0.48
20:Bu:13:ILE:HG21	22:Ba:1353:G:H5"	1.95	0.48
22:Ba:376:G:O2'	22:Ba:377:G:H5'	2.12	0.48
22:Ba:446:G:H1	22:Ba:488:C:H42	1.61	0.48
22:Ba:601:C:H2'	22:Ba:602:A:C8	2.48	0.48
22:Ba:706:A:N7	22:Ba:707:C:H5	2.10	0.48
22:Ba:1513:A:H2'	22:Ba:1514:C:H6	1.77	0.48
24:Bv:29:G:C2'	24:Bv:30:G:H5'	2.42	0.48
25:Bw:52:G:H2'	25:Bw:53:G:H8	1.78	0.48
28:BE:103:ASP:CG	28:BE:168:MET:HE2	2.39	0.48
28:BE:163:GLU:O	28:BE:165:VAL:HG23	2.12	0.48
29:BF:135:LYS:O	29:BF:137:LYS:N	2.46	0.48
29:BF:176:LEU:HD11	29:BF:180:GLY:HA3	1.95	0.48
30:BG:107:LEU:HD21	30:BG:178:PHE:CE2	2.48	0.48
30:BG:142:PRO:C	30:BG:144:ILE:H	2.21	0.48
31:BH:109:PHE:C	31:BH:111:HIS:N	2.71	0.48
34:BN:23:LEU:HB2	34:BN:60:ILE:CG2	2.42	0.48
38:BR:9:LYS:HD3	57:BA:1652:A:OP1	2.12	0.48
38:BR:30:THR:HA	38:BR:78:LYS:NZ	2.28	0.48
40:BT:28:VAL:CB	40:BT:88:ILE:HG12	2.36	0.48
42:BV:79:VAL:O	42:BV:80:GLN:HB2	2.13	0.48
45:BY:7:VAL:CB	45:BY:8:LYS:HZ2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:13:VAL:HG22	45:BY:73:ARG:O	2.13	0.48
45:BY:95:LYS:CD	45:BY:100:ALA:HB1	2.42	0.48
46:BZ:31:ARG:CZ	46:BZ:31:ARG:CB	2.91	0.48
49:B2:44:LEU:O	49:B2:45:SER:CB	2.60	0.48
49:B2:47:ASN:O	49:B2:49:LYS:N	2.46	0.48
53:B6:30:THR:HG22	53:B6:32:ASN:HD22	1.78	0.48
55:B8:50:LEU:HG	55:B8:51:ALA:N	2.27	0.48
57:BA:731:C:H2'	57:BA:732:C:H6	1.78	0.48
57:BA:893:C:H2'	57:BA:894:C:H6	1.77	0.48
57:BA:950:G:O2'	57:BA:951:C:H5'	2.13	0.48
57:BA:970:C:H2'	57:BA:971:C:C6	2.48	0.48
57:BA:1209:G:H21	57:BA:1210:A:H62	1.61	0.48
57:BA:1280:G:H3'	57:BA:1281:G:H5"	1.93	0.48
57:BA:1448:G:N3	57:BA:1528(A):A:H2	2.11	0.48
57:BA:1578:U:H2'	57:BA:1579:A:H5'	1.95	0.48
57:BA:1681:G:O2'	57:BA:1762:A:H2'	2.13	0.48
57:BA:2689:U:H5"	57:BA:2690:C:H5'	1.95	0.48
57:BA:2833:G:C3'	57:BA:2834:G:C5'	2.83	0.48
3:Ad:46:LYS:O	3:Ad:48:ALA:N	2.46	0.48
3:Ad:72:GLU:HB3	22:Aa:546:G:P	2.53	0.48
5:Af:96:PRO:HB3	17:Ar:30:ASP:CG	2.37	0.48
6:Ag:78:ARG:HG2	6:Ag:79:ARG:N	2.27	0.48
6:Ag:89:MET:HE1	6:Ag:156:TRP:OXT	2.13	0.48
7:Ah:97:VAL:N	22:Aa:600:C:OP1	2.46	0.48
8:Ai:56:LEU:HD23	8:Ai:56:LEU:C	2.38	0.48
8:Ai:118:LYS:NZ	22:Aa:1349:A:P	2.87	0.48
10:Ak:20:TYR:O	10:Ak:30:VAL:HA	2.13	0.48
12:Am:23:TYR:HB3	12:Am:67:GLU:CA	2.42	0.48
12:Am:29:ARG:NH1	12:Am:64:TRP:CD2	2.80	0.48
12:Am:90:LEU:CD1	18:As:81:ARG:HG3	2.42	0.48
17:Ar:64:ARG:NH2	22:Aa:663:A:O3'	2.46	0.48
18:As:54:GLY:O	22:Aa:986:A:H1'	2.13	0.48
22:Aa:59:A:N3	22:Aa:59:A:H2'	2.29	0.48
22:Aa:92:C:H2'	22:Aa:93:G:C8	2.48	0.48
28:AE:63:LEU:O	28:AE:64:LYS:C	2.55	0.48
30:AG:51:ARG:NE	30:AG:51:ARG:CA	2.74	0.48
30:AG:58:GLN:HG3	30:AG:59:GLU:N	2.28	0.48
30:AG:60:LEU:HD12	30:AG:68:PRO:CG	2.43	0.48
30:AG:120:LEU:HD13	30:AG:133:LEU:CD2	2.43	0.48
30:AG:125:PHE:HB2	30:AG:166:ASP:CB	2.43	0.48
31:AH:20:ALA:HB1	31:AH:21:PRO:HD2	1.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:124:LYS:HE2	36:AP:143:GLY:HA2	1.95	0.48
37:AQ:12:GLN:HE21	37:AQ:73:PRO:HD3	1.78	0.48
37:AQ:135:ASP:C	37:AQ:137:TYR:H	2.22	0.48
39:AS:16:ASN:C	39:AS:18:ILE:H	2.21	0.48
40:AT:57:PHE:O	40:AT:59:THR:N	2.45	0.48
40:AT:80:SER:CB	40:AT:81:PRO:HD3	2.31	0.48
45:AY:90:LEU:HG	45:AY:91:GLU:N	2.25	0.48
47:A0:19:LYS:HD3	47:A0:41:ARG:HH22	1.79	0.48
51:A4:15:ILE:N	51:A4:31:ILE:O	2.45	0.48
57:AA:272(G):C:N4	57:AA:363(C):G:H1	2.10	0.48
57:AA:768:G:H2'	57:AA:769:G:C8	2.42	0.48
57:AA:1168:G:O2'	57:AA:1169:G:H5'	2.12	0.48
57:AA:2171:A:H4'	57:AA:2172:U:O5'	2.12	0.48
58:AB:75:G:H5'	58:AB:76:G:OP2	2.13	0.48
1:Bb:194:PRO:HG2	1:Bb:195:ASP:H	1.76	0.48
2:Bc:140:ARG:HH11	2:Bc:140:ARG:HG3	1.78	0.48
3:Bd:159:ARG:HG3	3:Bd:159:ARG:NH1	2.29	0.48
8:Bi:32:ASP:HB3	8:Bi:35:GLU:HB3	1.95	0.48
10:Bk:102:GLY:C	10:Bk:103:LEU:HD22	2.38	0.48
19:Bt:105:SER:HB3	22:Ba:191:G:N9	2.28	0.48
21:By:20:SER:O	21:By:24:GLU:HB2	2.14	0.48
22:Ba:92:C:H2'	22:Ba:93:G:C8	2.48	0.48
22:Ba:160:A:H2'	22:Ba:161:A:O4'	2.14	0.48
22:Ba:346:G:H2'	22:Ba:347:G:O4'	2.12	0.48
22:Ba:860:A:H2'	22:Ba:861:G:O4'	2.14	0.48
22:Ba:999:C:O2'	22:Ba:1000:U:H5'	2.12	0.48
22:Ba:1202:G:H2'	22:Ba:1203:C:O4'	2.13	0.48
22:Ba:1374:A:C4	22:Ba:1375:A:C8	3.01	0.48
22:Ba:1508:G:O2'	22:Ba:1509:C:H5'	2.13	0.48
24:Bv:6:G:H1	24:Bv:67:C:N4	2.05	0.48
24:Bv:25:C:H2'	24:Bv:26:G:O4'	2.13	0.48
26:BC:14:LYS:O	26:BC:29:LEU:HD21	2.14	0.48
26:BC:26:ALA:C	26:BC:28:ARG:H	2.21	0.48
26:BC:46:ALA:HA	26:BC:212:SER:O	2.13	0.48
27:BD:21:PHE:HB3	27:BD:24:ILE:HD12	1.96	0.48
27:BD:44:ASN:OD1	27:BD:44:ASN:N	2.46	0.48
27:BD:65:ILE:HD11	27:BD:67:PHE:CD1	2.49	0.48
30:BG:16:ARG:NH2	30:BG:28:VAL:HG12	2.27	0.48
30:BG:69:ALA:O	30:BG:70:VAL:C	2.54	0.48
30:BG:136:ARG:HH12	57:BA:2306:C:H4'	1.78	0.48
34:BN:40:PRO:O	41:BU:64:ARG:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:119:ARG:NH1	34:BN:119:ARG:HG3	2.27	0.48
36:BP:16:ARG:HD3	36:BP:16:ARG:O	2.13	0.48
37:BQ:38:GLU:HG3	37:BQ:127:ILE:HB	1.95	0.48
38:BR:28:LEU:HA	38:BR:34:ILE:HG12	1.95	0.48
39:BS:89:ARG:NH1	39:BS:92:TYR:HA	2.28	0.48
40:BT:3:ARG:O	40:BT:4:GLY:C	2.56	0.48
40:BT:89:VAL:HB	40:BT:91:ARG:HG3	1.95	0.48
43:BW:75:TYR:CD2	43:BW:104:THR:HB	2.48	0.48
46:BZ:73:GLN:O	46:BZ:74:VAL:HG23	2.13	0.48
46:BZ:77:ASP:O	46:BZ:78:LYS:C	2.56	0.48
57:BA:830:G:H4'	57:BA:831:G:OP2	2.13	0.48
57:BA:941:A:H2'	57:BA:942:G:C8	2.48	0.48
57:BA:1171:G:H2'	57:BA:1171:G:N3	2.27	0.48
57:BA:1336:A:H2'	57:BA:1337:G:H8	1.76	0.48
57:BA:1494:A:O2'	57:BA:1496:A:C2	2.66	0.48
57:BA:1947:C:C3'	57:BA:1948:G:H5"	2.43	0.48
57:BA:2134:A:H61	57:BA:2157:G:C1'	2.17	0.48
57:BA:2134:A:H1'	57:BA:2159:G:H21	1.77	0.48
1:Ab:95:GLN:HE21	1:Ab:147:LYS:CE	2.25	0.48
2:Ac:138:VAL:HG22	2:Ac:151:VAL:HG23	1.95	0.48
8:Ai:99:LEU:HD12	8:Ai:101:PHE:HE1	1.79	0.48
11:Al:7:ILE:CG2	11:Al:8:ASN:N	2.76	0.48
13:An:51:GLY:O	13:An:53:LEU:N	2.45	0.48
22:Aa:1107:C:C3'	22:Aa:1108:G:H5"	2.43	0.48
22:Aa:1267:C:H2'	22:Aa:1267:C:O2	2.13	0.48
24:Av:36:U:C2	24:Av:37:A:C8	3.01	0.48
26:AC:37:LYS:HG3	57:AA:2128:C:OP1	2.13	0.48
27:AD:30:GLU:HG3	27:AD:63:ARG:NE	2.28	0.48
28:AE:24:THR:HG21	28:AE:188:VAL:HG12	1.95	0.48
29:AF:18:ARG:HG2	29:AF:19:GLU:N	2.27	0.48
30:AG:45:GLU:C	30:AG:88:ILE:HG13	2.39	0.48
30:AG:54:GLU:HA	30:AG:57:ALA:HB2	1.95	0.48
31:AH:7:LEU:CD2	31:AH:65:HIS:NE2	2.76	0.48
32:AI:83:ALA:O	32:AI:145:VAL:HG22	2.13	0.48
35:AO:114:ILE:H	35:AO:114:ILE:CD1	2.25	0.48
35:AO:119:PRO:HB2	40:AT:68:TYR:CZ	2.48	0.48
36:AP:30:THR:O	36:AP:32:THR:N	2.46	0.48
38:AR:56:LYS:C	38:AR:58:GLY:H	2.20	0.48
39:AS:18:ILE:C	39:AS:20:ARG:H	2.21	0.48
44:AX:12:VAL:HG13	44:AX:27:THR:O	2.13	0.48
44:AX:30:VAL:HG21	44:AX:39:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AZ:6:LYS:HD3	46:AZ:6:LYS:N	2.28	0.48
51:A4:6:HIS:HB3	51:A4:7:PRO:CD	2.44	0.48
53:A6:34:LEU:HD23	53:A6:51:GLU:HB3	1.95	0.48
55:A8:60:LEU:C	55:A8:63:PRO:HD2	2.38	0.48
57:AA:207:A:H2'	57:AA:208:C:O4'	2.13	0.48
57:AA:962:G:O2'	57:AA:963:U:H5'	2.14	0.48
57:AA:1310:G:C2'	57:AA:1311:G:H5'	2.43	0.48
57:AA:1756:G:H4'	57:AA:1758:G:O4'	2.13	0.48
57:AA:2062:A:H2'	57:AA:2063:C:H5'	1.95	0.48
57:AA:2123:G:H2'	57:AA:2124:G:H8	1.77	0.48
57:AA:2422:A:H4'	57:AA:2423:U:OP1	2.13	0.48
58:AB:40:U:N3	58:AB:43:C:H5"	2.29	0.48
3:Bd:34:GLU:O	3:Bd:34:GLU:HG3	2.12	0.48
3:Bd:40:PRO:HA	22:Ba:427:U:OP1	2.13	0.48
3:Bd:101:LEU:CB	3:Bd:138:TYR:HB3	2.43	0.48
3:Bd:150:GLU:CG	3:Bd:151:LYS:N	2.77	0.48
6:Bg:9:VAL:HG22	6:Bg:94:ARG:HH12	1.78	0.48
8:Bi:4:TYR:CZ	8:Bi:59:PHE:HE2	2.31	0.48
8:Bi:17:VAL:HG21	8:Bi:80:GLY:HA3	1.95	0.48
8:Bi:117:HIS:HB2	8:Bi:121:ARG:HD2	1.94	0.48
9:Bj:6:ILE:HG22	9:Bj:98:ILE:HD11	1.95	0.48
16:Bq:75:ARG:HG3	16:Bq:75:ARG:HH11	1.78	0.48
18:Bs:36:ARG:HB2	18:Bs:72:GLY:CA	2.43	0.48
19:Bt:47:GLY:O	19:Bt:48:LYS:C	2.56	0.48
22:Ba:66:G:H4'	22:Ba:173:U:C5	2.48	0.48
22:Ba:1067:A:H8	22:Ba:1067:A:O5'	1.96	0.48
22:Ba:1068:G:N2	22:Ba:1191:A:N3	2.57	0.48
27:BD:35:LYS:CD	27:BD:36:PRO:N	2.75	0.48
27:BD:132:PRO:O	27:BD:133:LEU:C	2.55	0.48
27:BD:183:ARG:HG3	27:BD:269:PHE:O	2.13	0.48
29:BF:177:ALA:HB1	29:BF:178:PRO:HD2	1.94	0.48
29:BF:192:LEU:HD21	29:BF:194:MET:HE2	1.95	0.48
30:BG:125:PHE:CD1	30:BG:166:ASP:HB2	2.47	0.48
30:BG:167:GLU:O	30:BG:170:ARG:HB3	2.13	0.48
32:BI:1:MET:CE	32:BI:23:PRO:HA	2.43	0.48
32:BI:10:GLU:OE1	32:BI:11:ASN:HB2	2.13	0.48
32:BI:28:ASN:HA	32:BI:32:PRO:HG2	1.95	0.48
32:BI:74:ASN:C	32:BI:76:THR:N	2.67	0.48
36:BP:18:ARG:NH1	36:BP:18:ARG:O	2.45	0.48
37:BQ:116:GLU:O	37:BQ:120:ILE:HG12	2.12	0.48
38:BR:24:GLN:NE2	38:BR:36:THR:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:98:LEU:H	38:BR:113:LEU:HD23	1.79	0.48
41:BU:108:GLU:HG3	42:BV:44:LYS:CD	2.39	0.48
42:BV:2:PHE:HB2	42:BV:42:GLY:CA	2.43	0.48
47:B0:37:LEU:N	47:B0:59:LEU:O	2.47	0.48
55:B8:60:LEU:C	55:B8:63:PRO:HD2	2.38	0.48
57:BA:11:G:N2	57:BA:2628:C:P	2.86	0.48
57:BA:271(P):C:C2'	57:BA:271(Q):G:H5'	2.43	0.48
57:BA:276:A:H5'	57:BA:277:C:C6	2.48	0.48
57:BA:1540:U:O3'	57:BA:1542:A:OP1	2.31	0.48
57:BA:1677:A:H2'	57:BA:1678:G:C8	2.48	0.48
1:Ab:22:LYS:H	1:Ab:40:HIS:CE1	2.32	0.48
2:Ac:110:ASN:C	2:Ac:112:SER:H	2.19	0.48
3:Ad:8:VAL:C	3:Ad:10:ARG:N	2.71	0.48
3:Ad:47:ARG:NE	3:Ad:49:ARG:NH2	2.56	0.48
6:Ag:99:LEU:O	6:Ag:100:ALA:C	2.56	0.48
8:Ai:50:LEU:HD23	8:Ai:85:LEU:CD2	2.43	0.48
11:Al:38:THR:CG2	11:Al:57:LYS:HB2	2.43	0.48
15:Ap:43:LYS:C	15:Ap:45:THR:H	2.21	0.48
17:Ar:38:GLU:HA	17:Ar:41:LYS:HB3	1.95	0.48
20:Au:6:ARG:NH1	20:Au:15:ARG:HH22	2.10	0.48
21:Ay:84:SER:C	21:Ay:86:VAL:N	2.63	0.48
22:Aa:184:G:O4'	22:Aa:224:C:H4'	2.13	0.48
22:Aa:266:G:O2'	22:Aa:267:C:OP2	2.32	0.48
22:Aa:355:C:C4	22:Aa:356:A:N7	2.81	0.48
22:Aa:1000:U:H2'	22:Aa:1001:A:C8	2.45	0.48
22:Aa:1238:A:C8	22:Aa:1303:C:H1'	2.47	0.48
22:Aa:1442:G:O6	22:Aa:1442(B):A:H2	1.96	0.48
24:Av:3:C:H2'	24:Av:4:G:H5'	1.94	0.48
26:AC:26:ALA:C	26:AC:28:ARG:H	2.21	0.48
26:AC:50:ILE:HD12	26:AC:50:ILE:H	1.78	0.48
27:AD:10:THR:C	27:AD:11:PRO:O	2.55	0.48
27:AD:44:ASN:OD1	27:AD:44:ASN:N	2.46	0.48
27:AD:45:ASN:OD1	27:AD:46:GLN:N	2.46	0.48
28:AE:14:ILE:HD12	40:AT:14:TYR:OH	2.12	0.48
28:AE:100:GLU:O	28:AE:172:VAL:HG23	2.13	0.48
28:AE:102:VAL:HA	28:AE:201:THR:H	1.77	0.48
30:AG:27:ASN:ND2	58:AB:55:U:H4'	2.24	0.48
31:AH:38:SER:CB	31:AH:64:LEU:HD13	2.43	0.48
34:AN:79:PRO:C	34:AN:81:GLY:H	2.21	0.48
36:AP:33:ARG:HD3	57:AA:587:C:C2	2.48	0.48
39:AS:90:GLY:C	39:AS:92:TYR:N	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AV:38:LEU:HD22	42:AV:52:VAL:HG11	1.96	0.48
43:AW:17:VAL:O	43:AW:18:ARG:C	2.55	0.48
44:AX:28:PHE:N	44:AX:28:PHE:CD1	2.81	0.48
45:AY:95:LYS:HD3	45:AY:100:ALA:CB	2.43	0.48
46:AZ:14:LYS:C	46:AZ:16:SER:H	2.21	0.48
46:AZ:141:VAL:HG13	46:AZ:144:LEU:CD2	2.43	0.48
47:A0:55:ARG:HE	47:A0:55:ARG:HB3	1.48	0.48
49:A2:46:GLN:H	49:A2:49:LYS:CE	2.25	0.48
51:A4:2:LYS:HG3	58:AB:39:A:N1	2.28	0.48
52:A5:2:ALA:HB3	57:AA:747:U:C1'	2.43	0.48
53:A6:8:LYS:NZ	57:AA:2285:C:C5	2.81	0.48
55:A8:2:PRO:HA	57:AA:591:C:O2	2.13	0.48
57:AA:225:A:H2'	57:AA:226:G:H5'	1.95	0.48
57:AA:271(F):C:H2'	57:AA:271(G):C:C6	2.38	0.48
57:AA:277:C:O2'	57:AA:278:A:H5'	2.13	0.48
57:AA:782:A:H4'	57:AA:783:A:O5'	2.13	0.48
57:AA:999:U:O2'	57:AA:1000:A:H5'	2.13	0.48
57:AA:1999:C:H4'	57:AA:2723:C:O2	2.14	0.48
57:AA:2155:G:H2'	57:AA:2156:G:O4'	2.13	0.48
57:AA:2222:G:O2'	57:AA:2223:G:H5'	2.13	0.48
57:AA:2332:U:H5'	57:AA:2336:A:N6	2.29	0.48
57:AA:2533:A:C2'	57:AA:2534:A:H5'	2.43	0.48
3:Bd:128:VAL:O	3:Bd:129:ASN:C	2.56	0.48
3:Bd:155:LEU:HB2	3:Bd:158:ILE:HB	1.95	0.48
4:Be:52:PRO:O	4:Be:56:GLN:HB2	2.13	0.48
4:Be:152:ARG:HD3	7:Bh:42:GLU:O	2.13	0.48
6:Bg:99:LEU:O	6:Bg:100:ALA:C	2.56	0.48
9:Bj:55:LYS:HG2	22:Ba:972:C:H2'	1.95	0.48
11:Bl:6:THR:OG1	11:Bl:9:GLN:HG3	2.13	0.48
11:Bl:114:LYS:HD3	22:Ba:539:A:P	2.54	0.48
12:Bm:63:THR:O	12:Bm:64:TRP:O	2.30	0.48
12:Bm:77:ASN:O	12:Bm:80:ARG:HB3	2.14	0.48
13:Bn:23:ARG:HD2	13:Bn:28:GLY:O	2.13	0.48
22:Ba:1029:C:H1'	22:Ba:1033:G:N1	2.28	0.48
25:Bw:71:C:H2'	25:Bw:72:A:C8	2.49	0.48
28:BE:62:PRO:C	28:BE:64:LYS:H	2.20	0.48
29:BF:4:VAL:CG1	29:BF:17:ARG:HD3	2.43	0.48
29:BF:29:ASN:O	29:BF:30:PRO:C	2.56	0.48
35:BO:34:THR:OG1	35:BO:35:VAL:N	2.45	0.48
36:BP:10:PRO:O	36:BP:11:GLY:O	2.30	0.48
38:BR:28:LEU:C	38:BR:30:THR:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:28:VAL:HG12	39:BS:29:PHE:N	2.28	0.48
39:BS:89:ARG:HG3	39:BS:92:TYR:HA	1.95	0.48
40:BT:73:GLU:O	40:BT:74:ARG:HG2	2.14	0.48
45:BY:4:LYS:HB2	45:BY:32:PRO:CG	2.44	0.48
45:BY:52:SER:O	45:BY:56:PRO:HD3	2.13	0.48
46:BZ:18:LEU:HB3	46:BZ:23:LYS:HB2	1.95	0.48
51:B4:5:ILE:N	51:B4:5:ILE:CD1	2.75	0.48
55:B8:14:VAL:CG2	55:B8:22:VAL:HG12	2.39	0.48
57:BA:445:C:O2'	57:BA:446:G:H5'	2.13	0.48
57:BA:819:A:OP2	57:BA:1187:G:N2	2.41	0.48
57:BA:916:G:C2'	57:BA:917:A:H5"	2.43	0.48
57:BA:1317:A:H2'	57:BA:1318:C:C6	2.48	0.48
57:BA:1509(B):A:H2'	57:BA:1510:G:H8	1.74	0.48
57:BA:1701:A:H5'	57:BA:1702:G:OP2	2.13	0.48
57:BA:2285:C:H5'	57:BA:2288:A:N6	2.28	0.48
57:BA:2672:G:H3'	57:BA:2673:G:H5"	1.95	0.48
57:BA:2737:G:O2'	57:BA:2738:A:H5'	2.13	0.48
57:BA:2811:G:O2'	57:BA:2812:G:H5'	2.13	0.48
1:Ab:115:LEU:HD13	1:Ab:145:LEU:HD12	1.94	0.48
1:Ab:189:ASP:C	1:Ab:191:ASP:N	2.69	0.48
3:Ad:34:GLU:HG3	3:Ad:34:GLU:O	2.13	0.48
4:Ae:68:GLU:O	4:Ae:68:GLU:CG	2.61	0.48
4:Ae:112:LEU:N	4:Ae:112:LEU:HD23	2.28	0.48
4:Ae:148:VAL:O	4:Ae:150:ARG:N	2.46	0.48
5:Af:8:ILE:HG12	5:Af:88:VAL:HG22	1.95	0.48
7:Ah:54:ASP:C	7:Ah:56:LYS:H	2.20	0.48
10:Ak:58:PRO:HA	10:Ak:90:GLY:HA3	1.94	0.48
14:Ao:37:ASN:N	14:Ao:37:ASN:HD22	2.11	0.48
16:Aq:68:ARG:HH12	22:Aa:277:C:C5'	2.27	0.48
17:Ar:35:ARG:C	17:Ar:37:VAL:N	2.72	0.48
18:As:62:ILE:HD12	18:As:66:MET:HG3	1.94	0.48
19:At:100:ILE:O	19:At:100:ILE:HG23	2.14	0.48
22:Aa:189(B):C:H2'	22:Aa:189(C):C:C6	2.48	0.48
22:Aa:486:U:H2'	22:Aa:487:A:C8	2.46	0.48
24:Av:29:G:O2'	24:Av:30:G:H5'	2.13	0.48
26:AC:46:ALA:HA	26:AC:212:SER:O	2.13	0.48
28:AE:134:ILE:HG21	57:AA:2579:C:C4'	2.37	0.48
30:AG:128:ARG:HE	57:AA:2302:G:H1'	1.79	0.48
31:AH:43:VAL:HG12	31:AH:51:ARG:O	2.13	0.48
32:AI:103:ARG:O	32:AI:104:GLN:C	2.56	0.48
36:AP:9:ASN:O	36:AP:11:GLY:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:10:PRO:O	36:AP:11:GLY:O	2.31	0.48
36:AP:101:VAL:HG12	36:AP:107:LYS:N	2.28	0.48
38:AR:2:ARG:N	38:AR:2:ARG:CD	2.76	0.48
40:AT:8:LYS:C	40:AT:10:VAL:N	2.70	0.48
41:AU:90:VAL:CG2	42:AV:39:LEU:HG	2.40	0.48
43:AW:20:VAL:O	43:AW:23:LEU:HB2	2.14	0.48
45:AY:74:PRO:O	45:AY:80:GLY:HA2	2.13	0.48
46:AZ:107:THR:HG23	46:AZ:111:VAL:HB	1.94	0.48
46:AZ:165:VAL:CG1	46:AZ:166:SER:H	2.04	0.48
57:AA:407:G:H2'	57:AA:408:G:C8	2.48	0.48
57:AA:606:U:H4'	57:AA:658:C:H4'	1.95	0.48
57:AA:918:A:H5"	58:AB:98:G:O2'	2.13	0.48
57:AA:2206:G:C2	57:AA:2207:G:H5'	2.44	0.48
57:AA:2223:G:O2'	57:AA:2224:G:H5'	2.12	0.48
3:Bd:46:LYS:O	3:Bd:48:ALA:N	2.46	0.48
3:Bd:149:ALA:O	3:Bd:153:ARG:HG3	2.13	0.48
4:Be:10:MET:HG2	4:Be:10:MET:O	2.13	0.48
7:Bh:97:VAL:HG21	7:Bh:128:GLY:HA2	1.96	0.48
9:Bj:46:ARG:HH11	9:Bj:46:ARG:HG2	1.77	0.48
11:Bl:31:PRO:HD2	22:Ba:363:A:C5	2.49	0.48
15:Bp:20:VAL:CG2	15:Bp:21:VAL:N	2.76	0.48
16:Bq:67:LYS:O	22:Ba:254:G:OP1	2.30	0.48
17:Br:40:LEU:HD12	17:Br:40:LEU:N	2.28	0.48
19:Bt:47:GLY:O	19:Bt:49:ALA:N	2.46	0.48
19:Bt:89:ARG:HB2	19:Bt:104:LEU:HD11	1.95	0.48
22:Ba:21:G:H2'	22:Ba:22:G:C8	2.48	0.48
22:Ba:445:G:O2'	22:Ba:446:G:H5'	2.13	0.48
22:Ba:586:C:O2'	22:Ba:878:G:H4'	2.13	0.48
22:Ba:827:U:O2'	22:Ba:859:A:N1	2.40	0.48
22:Ba:991:U:O2	22:Ba:993:G:C8	2.67	0.48
24:Bv:39:C:H2'	24:Bv:40:C:H6	1.79	0.48
30:BG:100:TRP:CD1	30:BG:100:TRP:H	2.31	0.48
31:BH:102:ALA:HA	31:BH:117:PRO:CD	2.44	0.48
32:BI:31:LEU:HD21	32:BI:38:LEU:HG	1.94	0.48
32:BI:71:ILE:O	32:BI:75:LEU:HD13	2.14	0.48
33:BJ:129:PRO:C	33:BJ:131:MET:H	2.22	0.48
34:BN:32:THR:O	34:BN:35:ARG:O	2.31	0.48
36:BP:48:PRO:O	36:BP:49:ARG:C	2.56	0.48
39:BS:62:LYS:HB2	58:BB:50:G:OP2	2.13	0.48
40:BT:30:VAL:HG11	40:BT:84:GLN:CG	2.43	0.48
44:BX:12:VAL:HG13	44:BX:27:THR:C	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:122:ARG:HH11	46:BZ:122:ARG:HG2	1.75	0.48
53:B6:27:LYS:HD2	53:B6:30:THR:CB	2.33	0.48
53:B6:48:VAL:CG2	53:B6:49:HIS:H	2.14	0.48
56:B9:15:LYS:HZ3	57:BA:2753:A:H1'	1.78	0.48
57:BA:237:C:O2'	57:BA:238:C:H5'	2.13	0.48
57:BA:363(E):U:H3'	57:BA:363(F):A:O4'	2.13	0.48
57:BA:564:C:O2'	57:BA:565:C:H5'	2.13	0.48
57:BA:580:C:H2'	57:BA:581:C:H6	1.78	0.48
57:BA:1150:C:O2'	57:BA:1151:G:H5'	2.13	0.48
57:BA:1274:A:N3	57:BA:1297:C:H1'	2.29	0.48
57:BA:2171:A:H4'	57:BA:2172:U:O5'	2.13	0.48
57:BA:2389:G:H5"	57:BA:2390:U:H5'	1.95	0.48
57:BA:2400:G:N2	57:BA:2417:C:C2	2.81	0.48
1:Ab:224:GLN:C	1:Ab:226:ARG:H	2.20	0.48
3:Ad:174:LEU:HA	3:Ad:186:LEU:HG	1.95	0.48
4:Ae:30:ALA:O	4:Ae:45:PHE:HA	2.14	0.48
6:Ag:140:ASP:O	6:Ag:144:MET:HG2	2.14	0.48
7:Ah:40:ALA:O	7:Ah:42:GLU:N	2.47	0.48
7:Ah:102:ARG:HD3	7:Ah:102:ARG:N	2.28	0.48
7:Ah:122:ARG:HB2	7:Ah:122:ARG:HH11	1.77	0.48
9:Aj:57:LYS:HB2	22:Aa:972:C:H4'	1.96	0.48
12:Am:58:GLU:O	12:Am:62:ASN:HB2	2.14	0.48
19:At:26:ASN:N	19:At:26:ASN:HD22	2.10	0.48
19:At:99:LEU:O	19:At:100:ILE:C	2.57	0.48
22:Aa:35:G:H2'	22:Aa:36:C:C6	2.49	0.48
22:Aa:216:G:H2'	22:Aa:217:C:C6	2.48	0.48
22:Aa:302:G:O2'	22:Aa:556:C:H5"	2.13	0.48
22:Aa:312:C:H2'	22:Aa:313:A:H8	1.74	0.48
22:Aa:332:G:H2'	22:Aa:333:G:H8	1.79	0.48
22:Aa:502:G:C6	22:Aa:503:C:N3	2.81	0.48
22:Aa:764:C:H2'	22:Aa:765:G:O4'	2.13	0.48
22:Aa:791:G:C5	22:Aa:792:A:N7	2.82	0.48
22:Aa:1004:A:H2'	22:Aa:1037:C:O2	2.13	0.48
22:Aa:1029:C:H1'	22:Aa:1033:G:N1	2.29	0.48
26:AC:175:PRO:HD3	57:AA:2124:G:H5'	1.94	0.48
29:AF:40:GLN:HG2	57:AA:615:G:OP2	2.13	0.48
29:AF:108:LYS:CD	29:AF:112:MET:HE2	2.40	0.48
29:AF:128:ALA:O	29:AF:142:TRP:NE1	2.37	0.48
32:AI:91:SER:CB	32:AI:119:PRO:HB2	2.33	0.48
34:AN:26:LEU:O	34:AN:30:ILE:HG13	2.14	0.48
36:AP:81:GLN:HB3	36:AP:106:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AS:49:VAL:HG11	39:AS:73:LEU:HD23	1.95	0.48
40:AT:31:SER:N	40:AT:43:GLN:O	2.46	0.48
40:AT:66:VAL:HA	40:AT:71:GLY:HA2	1.95	0.48
40:AT:89:VAL:HB	40:AT:91:ARG:CD	2.44	0.48
41:AU:44:ASN:HD21	42:AV:75:PHE:N	2.10	0.48
42:AV:82:ARG:HH11	42:AV:82:ARG:HG2	1.79	0.48
45:AY:13:VAL:CG2	45:AY:72:VAL:HB	2.42	0.48
45:AY:35:TYR:CD2	45:AY:69:ALA:HB3	2.49	0.48
46:AZ:101:PRO:C	46:AZ:102:LEU:HD23	2.38	0.48
46:AZ:126:VAL:HG12	46:AZ:163:LEU:HA	1.95	0.48
46:AZ:150:LEU:O	46:AZ:171:ILE:HD12	2.13	0.48
48:A1:45:ASN:ND2	48:A1:47:GLN:HE21	2.09	0.48
53:A6:48:VAL:CG2	53:A6:49:HIS:H	2.15	0.48
57:AA:828:U:C5	57:AA:829:A:N6	2.81	0.48
57:AA:1681:G:O2'	57:AA:1762:A:H2'	2.14	0.48
57:AA:1790:C:H5"	57:AA:1791:A:OP1	2.14	0.48
57:AA:1802:A:H2'	57:AA:1803:A:C8	2.48	0.48
57:AA:2693:A:H2'	57:AA:2694:G:C8	2.47	0.48
58:AB:94:C:O2'	58:AB:95:C:H5'	2.13	0.48
1:Bb:32:ILE:HD11	1:Bb:40:HIS:CB	2.34	0.48
2:Bc:179:ARG:HG3	2:Bc:179:ARG:NH1	2.29	0.48
2:Bc:189:ALA:O	2:Bc:190:ARG:HG3	2.14	0.48
4:Be:39:GLY:CA	4:Be:69:VAL:HB	2.43	0.48
4:Be:72:GLN:C	4:Be:74:GLY:N	2.69	0.48
4:Be:102:ALA:HB1	4:Be:106:PRO:CG	2.44	0.48
9:Bj:63:PHE:HD1	13:Bn:58:LYS:HA	1.79	0.48
14:Bo:6:GLU:O	14:Bo:7:GLU:C	2.57	0.48
14:Bo:23:GLY:O	14:Bo:27:VAL:HB	2.14	0.48
14:Bo:80:ALA:O	14:Bo:84:LYS:HB2	2.14	0.48
15:Bp:10:GLY:C	22:Ba:624:C:H4'	2.39	0.48
21:By:16:ARG:C	21:By:18:LEU:H	2.21	0.48
22:Ba:164:U:H2'	22:Ba:165:C:C6	2.48	0.48
22:Ba:328:C:H4'	22:Ba:329:A:O5'	2.14	0.48
22:Ba:377:G:H2'	22:Ba:378:G:C8	2.48	0.48
22:Ba:831:U:C2	22:Ba:832:C:H5	2.32	0.48
22:Ba:953:G:H2'	22:Ba:954:G:O4'	2.13	0.48
22:Ba:983:A:HO2'	22:Ba:1049:U:HO2'	1.60	0.48
22:Ba:1095:U:H5'	22:Ba:1109:C:O2	2.12	0.48
26:BC:29:LEU:HD22	26:BC:33:LEU:HD11	1.96	0.48
27:BD:76:PRO:HG2	27:BD:98:VAL:HG21	1.96	0.48
28:BE:80:GLU:OE2	57:BA:2636:U:H4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:51:THR:HG21	29:BF:92:PRO:HD2	1.95	0.48
30:BG:129:GLY:O	30:BG:130:ASN:CB	2.61	0.48
32:BI:77:LEU:HD12	32:BI:101:LEU:HD11	1.95	0.48
34:BN:23:LEU:HD23	57:BA:1140:C:OP1	2.13	0.48
34:BN:55:VAL:HG22	34:BN:126:PRO:HA	1.96	0.48
36:BP:148:LEU:O	36:BP:149:GLU:CB	2.61	0.48
37:BQ:135:ASP:C	37:BQ:137:TYR:H	2.22	0.48
38:BR:56:LYS:C	38:BR:58:GLY:H	2.21	0.48
40:BT:123:GLN:HE21	40:BT:123:GLN:HB3	1.54	0.48
41:BU:57:PHE:O	41:BU:58:ARG:C	2.56	0.48
45:BY:95:LYS:HE2	45:BY:101:LYS:N	2.24	0.48
45:BY:96:ILE:HG22	45:BY:97:ARG:N	2.28	0.48
57:BA:336:C:H2'	57:BA:337:C:H6	1.78	0.48
57:BA:1339:G:H21	57:BA:1603:A:H1'	1.78	0.48
57:BA:2041:U:H2'	57:BA:2042:A:C8	2.48	0.48
57:BA:2258:C:H4'	57:BA:2259:G:OP2	2.14	0.48
57:BA:2666:C:H5"	57:BA:2667:C:H5	1.78	0.48
57:BA:2855:C:H2'	57:BA:2856:C:C6	2.42	0.48
3:Ad:12:CYS:HA	3:Ad:19:LEU:HD13	1.96	0.48
3:Ad:65:ARG:HG3	3:Ad:75:PHE:CD1	2.49	0.48
3:Ad:159:ARG:HG3	3:Ad:159:ARG:NH1	2.29	0.48
7:Ah:120:THR:O	7:Ah:121:ASP:C	2.57	0.48
8:Ai:18:PHE:HB3	8:Ai:20:ARG:HH12	1.79	0.48
9:Aj:91:PRO:HB2	9:Aj:94:VAL:HB	1.94	0.48
11:Al:38:THR:HG22	11:Al:57:LYS:HB2	1.95	0.48
15:Ap:75:ARG:HH11	15:Ap:75:ARG:HG3	1.79	0.48
20:Au:13:ILE:HG21	22:Aa:1353:G:H5"	1.95	0.48
22:Aa:112:G:H5'	22:Aa:389:A:H4'	1.96	0.48
22:Aa:372:C:H4'	22:Aa:373:A:OP1	2.13	0.48
22:Aa:446:G:H1	22:Aa:488:C:H42	1.61	0.48
22:Aa:818:G:C3'	22:Aa:819:A:C5'	2.91	0.48
22:Aa:860:A:H2'	22:Aa:861:G:O4'	2.12	0.48
22:Aa:1032:G:H2'	22:Aa:1033:G:H8	1.79	0.48
22:Aa:1316:G:C2'	22:Aa:1317:C:H5"	2.43	0.48
27:AD:79:VAL:HG11	27:AD:111:LEU:HD12	1.95	0.48
27:AD:175:LEU:HD12	27:AD:185:VAL:HG21	1.94	0.48
28:AE:102:VAL:HB	28:AE:199:ARG:O	2.14	0.48
28:AE:203:LYS:HD2	28:AE:203:LYS:C	2.39	0.48
29:AF:68:LYS:O	57:AA:2060:A:OP1	2.31	0.48
31:AH:41:MET:SD	31:AH:52:VAL:HG13	2.54	0.48
31:AH:94:TYR:N	31:AH:94:TYR:HD1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:155:SER:O	31:AH:156:ALA:C	2.57	0.48
33:AJ:101:PRO:C	33:AJ:103:GLY:H	2.21	0.48
36:AP:125:VAL:CG1	36:AP:138:LEU:HD21	2.44	0.48
36:AP:148:LEU:O	36:AP:149:GLU:CB	2.61	0.48
39:AS:98:VAL:HG12	39:AS:100:ALA:H	1.79	0.48
40:AT:28:VAL:CB	40:AT:88:ILE:HG12	2.36	0.48
40:AT:89:VAL:CG1	40:AT:91:ARG:HG3	2.44	0.48
42:AV:2:PHE:HB2	42:AV:42:GLY:CA	2.43	0.48
43:AW:79:GLY:C	43:AW:100:THR:CG2	2.87	0.48
43:AW:79:GLY:C	43:AW:100:THR:HG22	2.39	0.48
45:AY:18:GLY:C	45:AY:20:TYR:H	2.18	0.48
48:A1:29:GLY:O	48:A1:30:VAL:CG2	2.62	0.48
53:A6:25:LYS:CD	57:AA:2285:C:H41	2.24	0.48
57:AA:78:A:H2'	57:AA:79:G:H8	1.79	0.48
57:AA:394:A:HO2'	57:AA:395:U:H5'	1.77	0.48
57:AA:634:C:H2'	57:AA:635:C:C6	2.49	0.48
57:AA:914:C:H2'	57:AA:915:C:C5'	2.40	0.48
57:AA:2291:U:OP1	57:AA:2380:C:O2'	2.29	0.48
57:AA:2369:A:O2'	57:AA:2370:G:H5'	2.14	0.48
1:Bb:15:VAL:C	1:Bb:16:HIS:CG	2.91	0.48
1:Bb:22:LYS:H	1:Bb:40:HIS:CE1	2.32	0.48
1:Bb:80:ILE:HG22	1:Bb:80:ILE:O	2.13	0.48
1:Bb:81:VAL:O	1:Bb:85:ALA:HB2	2.13	0.48
4:Be:20:GLN:O	4:Be:21:ALA:O	2.32	0.48
5:Bf:28:ARG:O	5:Bf:29:ALA:C	2.57	0.48
6:Bg:62:PHE:HA	6:Bg:124:LEU:HD21	1.94	0.48
6:Bg:64:GLN:O	6:Bg:65:ALA:C	2.56	0.48
10:Bk:46:GLY:O	22:Ba:688:G:H5'	2.14	0.48
10:Bk:48:ILE:HG22	10:Bk:49:GLY:N	2.27	0.48
16:Bq:31:LEU:HD11	22:Ba:564:C:C5	2.48	0.48
20:Bu:6:ARG:CZ	20:Bu:15:ARG:NH2	2.72	0.48
21:By:12:LEU:O	21:By:16:ARG:HD3	2.13	0.48
25:Bw:28:C:H2'	25:Bw:29:G:H8	1.73	0.48
27:BD:137:PRO:HB2	27:BD:140:THR:HG23	1.95	0.48
27:BD:231:HIS:CG	27:BD:232:PRO:HD2	2.48	0.48
30:BG:43:LEU:HB3	30:BG:45:GLU:HG2	1.95	0.48
31:BH:41:MET:HE3	31:BH:42:ARG:CA	2.44	0.48
31:BH:155:SER:O	31:BH:156:ALA:C	2.56	0.48
35:BO:64:ARG:NH1	40:BT:70:VAL:HG21	2.28	0.48
36:BP:33:ARG:HD3	57:BA:587:C:C4	2.49	0.48
37:BQ:18:LYS:N	37:BQ:18:LYS:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:89:ARG:HH11	39:BS:92:TYR:HA	1.78	0.48
42:BV:39:LEU:CB	42:BV:40:LEU:HD23	2.43	0.48
43:BW:82:LEU:HD12	43:BW:82:LEU:HA	1.75	0.48
46:BZ:24:LEU:HD21	46:BZ:86:VAL:HG23	1.96	0.48
46:BZ:108:PRO:HG2	46:BZ:111:VAL:HG23	1.96	0.48
56:B9:10:ILE:HD12	56:B9:32:HIS:CB	2.44	0.48
57:BA:55:G:O2'	57:BA:127:A:N1	2.44	0.48
57:BA:589:C:O2'	57:BA:590:A:H5'	2.13	0.48
57:BA:594:U:H2'	57:BA:595:C:H6	1.78	0.48
57:BA:708:C:H5'	57:BA:709:U:OP2	2.13	0.48
57:BA:1179:C:H2'	57:BA:1180:C:C6	2.49	0.48
57:BA:1467:C:O2'	57:BA:1468:C:H5'	2.13	0.48
57:BA:2341:G:H2'	57:BA:2342:C:C6	2.49	0.48
57:BA:2630:G:H1'	57:BA:2894:G:C4	2.49	0.48
57:BA:2762:G:H2'	57:BA:2763:G:H5'	1.95	0.48
2:Ac:75:VAL:O	2:Ac:75:VAL:HG12	2.14	0.48
3:Ad:91:SER:O	3:Ad:94:LEU:N	2.47	0.48
4:Ae:68:GLU:HG3	4:Ae:68:GLU:O	2.12	0.48
6:Ag:9:VAL:HG22	6:Ag:94:ARG:HH12	1.78	0.48
6:Ag:102:ARG:HH22	22:Aa:939:G:C5'	2.19	0.48
11:Al:41:ARG:HG2	11:Al:42:THR:N	2.27	0.48
12:Am:34:LEU:HD13	12:Am:41:PRO:HG3	1.96	0.48
13:An:25:VAL:HB	13:An:39:LEU:CD2	2.44	0.48
14:Ao:61:GLY:O	14:Ao:65:ARG:HD3	2.13	0.48
14:Ao:80:ALA:O	14:Ao:84:LYS:HB2	2.13	0.48
18:As:12:ASP:O	18:As:16:LEU:HD12	2.14	0.48
18:As:34:TRP:HB3	22:Aa:1219:U:O2'	2.13	0.48
21:Ay:86:VAL:HG23	21:Ay:87:TYR:N	2.26	0.48
22:Aa:826:C:H2'	22:Aa:827:U:C6	2.48	0.48
22:Aa:926:G:N2	23:Ax:16:A:OP1	2.46	0.48
27:AD:31:LYS:C	27:AD:33:LEU:N	2.71	0.48
27:AD:35:LYS:CD	27:AD:36:PRO:N	2.76	0.48
28:AE:7:VAL:HA	28:AE:194:GLY:O	2.14	0.48
28:AE:61:ARG:NH2	57:AA:2811:G:H4'	2.26	0.48
31:AH:55:PRO:HG2	31:AH:61:HIS:CE1	2.49	0.48
32:AI:119:PRO:O	32:AI:120:ILE:C	2.56	0.48
36:AP:62:LEU:CD1	55:A8:30:ARG:HG2	2.43	0.48
36:AP:146:VAL:CG2	36:AP:147:LEU:H	2.09	0.48
41:AU:74:LEU:CD1	41:AU:74:LEU:N	2.77	0.48
51:A4:5:ILE:HD13	51:A4:5:ILE:H	1.79	0.48
53:A6:5:VAL:HG13	53:A6:7:ILE:N	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:A8:42:ARG:O	55:A8:44:LYS:N	2.40	0.48
57:AA:696:G:C2	57:AA:767:U:O2	2.67	0.48
57:AA:718:A:H2'	57:AA:719:C:H5'	1.96	0.48
57:AA:1387:C:H5'	57:AA:1469:A:H4'	1.95	0.48
57:AA:1528:A:C2	57:AA:1542:A:H2	2.31	0.48
57:AA:2523:G:H2'	57:AA:2524:G:C5'	2.29	0.48
57:AA:2672:G:H3'	57:AA:2673:G:H5"	1.95	0.48
1:Bb:204:ASN:ND2	1:Bb:204:ASN:C	2.72	0.48
3:Bd:174:LEU:HA	3:Bd:186:LEU:HG	1.95	0.48
3:Bd:206:PHE:CD2	3:Bd:206:PHE:C	2.92	0.48
4:Be:68:GLU:O	4:Be:68:GLU:CG	2.61	0.48
5:Bf:81:ILE:O	5:Bf:82:ARG:C	2.55	0.48
6:Bg:29:LYS:NZ	22:Ba:1375:A:H4'	2.29	0.48
8:Bi:111:ARG:HG2	8:Bi:112:LYS:H	1.76	0.48
9:Bj:12:ASP:OD1	9:Bj:15:THR:HG23	2.13	0.48
10:Bk:79:SER:CB	10:Bk:106:LYS:HD2	2.39	0.48
11:Bl:59:ARG:NH1	11:Bl:63:GLY:O	2.47	0.48
17:Br:38:GLU:HA	17:Br:41:LYS:HB3	1.95	0.48
21:By:64:TYR:CE2	21:By:73:VAL:HA	2.48	0.48
22:Ba:947:G:H2'	22:Ba:948:C:C6	2.49	0.48
22:Ba:1298:C:H4'	22:Ba:1299:A:C4	2.48	0.48
24:Bv:49:G:H1	24:Bv:65:C:H42	1.61	0.48
27:BD:31:LYS:C	27:BD:33:LEU:N	2.72	0.48
29:BF:8:GLN:O	29:BF:9:ILE:C	2.56	0.48
29:BF:60:SER:OG	29:BF:61:GLY:N	2.45	0.48
29:BF:184:TYR:O	29:BF:188:ARG:HG2	2.14	0.48
30:BG:34:LEU:HB3	30:BG:99:MET:CE	2.41	0.48
30:BG:63:ILE:HD12	30:BG:141:PHE:CD2	2.49	0.48
31:BH:144:VAL:HA	31:BH:147:ASN:HB2	1.95	0.48
32:BI:77:LEU:O	32:BI:141:LYS:HG2	2.14	0.48
33:BJ:57:THR:O	33:BJ:59:ILE:O	2.32	0.48
34:BN:55:VAL:HG13	34:BN:56:ASN:N	2.28	0.48
34:BN:85:ILE:HD12	34:BN:90:MET:HE3	1.96	0.48
38:BR:30:THR:HA	38:BR:78:LYS:HZ1	1.79	0.48
40:BT:89:VAL:HG12	40:BT:91:ARG:HG3	1.96	0.48
41:BU:55:ARG:HD2	57:BA:1155:A:OP1	2.14	0.48
41:BU:61:TRP:CE2	41:BU:94:ASN:HA	2.49	0.48
46:BZ:67:LEU:HB3	46:BZ:68:PRO:HD2	1.96	0.48
46:BZ:166:SER:OG	46:BZ:167:PRO:HA	2.14	0.48
46:BZ:171:ILE:HG23	46:BZ:172:ALA:H	1.77	0.48
49:B2:10:LEU:HD22	49:B2:14:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:33:VAL:CG1	51:B4:34:GLU:H	2.22	0.48
53:B6:47:THR:OG1	53:B6:48:VAL:N	2.47	0.48
57:BA:391:G:O2'	57:BA:410:G:OP1	2.28	0.48
57:BA:760:G:H2'	57:BA:761:A:O4'	2.13	0.48
57:BA:869:G:H1	57:BA:908:C:H42	1.60	0.48
57:BA:2182:G:H2'	57:BA:2183:C:H6	1.78	0.48
57:BA:2472:G:H3'	57:BA:2475:C:H41	1.78	0.48
57:BA:2528:U:H2'	57:BA:2530:A:O5'	2.14	0.48
58:BB:56:G:H4'	58:BB:57:A:H8	1.79	0.48
58:BB:73:A:H2'	58:BB:74:U:H5'	1.96	0.48
1:Ab:107:THR:HA	1:Ab:110:GLN:HG3	1.94	0.48
1:Ab:154:LEU:O	1:Ab:155:LEU:C	2.57	0.48
3:Ad:2:GLY:O	3:Ad:3:ARG:C	2.57	0.48
3:Ad:54:TYR:O	3:Ad:55:ALA:C	2.57	0.48
3:Ad:60:GLU:OE2	3:Ad:198:VAL:HA	2.14	0.48
5:Af:69:GLU:CD	5:Af:69:GLU:N	2.72	0.48
6:Ag:69:VAL:C	6:Ag:138:LYS:HG3	2.38	0.48
7:Ah:97:VAL:HG21	7:Ah:128:GLY:HA2	1.95	0.48
8:Ai:48:GLU:N	8:Ai:49:PRO:CD	2.77	0.48
10:Ak:121:PRO:HD2	10:Ak:126:ARG:HG3	1.95	0.48
14:Ao:26:GLU:HG3	14:Ao:77:ARG:NH1	2.29	0.48
19:At:10:LEU:O	19:At:13:LEU:CD1	2.61	0.48
21:Ay:76:ILE:O	21:Ay:77:SER:C	2.56	0.48
22:Aa:18:C:H2'	22:Aa:19:C:H6	1.79	0.48
22:Aa:160:A:H2'	22:Aa:161:A:O4'	2.14	0.48
22:Aa:946:A:H2'	22:Aa:947:G:H8	1.79	0.48
22:Aa:1512:U:H2'	22:Aa:1513:A:C8	2.49	0.48
27:AD:147:LEU:HD12	27:AD:155:LEU:HD11	1.95	0.48
28:AE:116:VAL:O	28:AE:117:MET:CB	2.45	0.48
29:AF:178:PRO:HG2	29:AF:179:GLU:CD	2.39	0.48
31:AH:154:PRO:O	31:AH:156:ALA:N	2.47	0.48
32:AI:29:TYR:CE1	32:AI:33:ARG:NE	2.76	0.48
36:AP:16:ARG:CA	36:AP:16:ARG:NH1	2.77	0.48
37:AQ:59:ARG:O	37:AQ:59:ARG:HG3	2.13	0.48
37:AQ:116:GLU:O	37:AQ:120:ILE:HG12	2.14	0.48
39:AS:13:ARG:HG3	39:AS:14:VAL:N	2.24	0.48
39:AS:30:ARG:HD2	39:AS:31:SER:H	1.79	0.48
45:AY:28:LYS:CA	45:AY:38:ILE:HG22	2.38	0.48
46:AZ:6:LYS:O	46:AZ:7:ALA:HB2	2.13	0.48
48:A1:64:ALA:HA	48:A1:67:ILE:HD11	1.95	0.48
50:A3:5:LYS:CB	50:A3:36:VAL:HG12	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:A5:6:VAL:CG1	57:AA:2016:U:H1'	2.43	0.48
53:A6:15:GLU:C	53:A6:16:CYS:O	2.53	0.48
53:A6:17:LYS:O	53:A6:18:ARG:O	2.32	0.48
53:A6:27:LYS:HD3	53:A6:27:LYS:C	2.39	0.48
56:A9:1:MET:SD	57:AA:2477:C:H2'	2.54	0.48
56:A9:22:ARG:HB2	56:A9:24:TYR:HE1	1.79	0.48
56:A9:30:PRO:HB2	57:AA:2527:C:H4'	1.95	0.48
57:AA:259:G:N2	57:AA:621:A:H8	2.03	0.48
57:AA:484:C:H2'	57:AA:485:C:C6	2.49	0.48
57:AA:878:A:H2'	57:AA:879:G:O4'	2.13	0.48
57:AA:1486:A:N6	57:AA:1504:C:H42	2.12	0.48
57:AA:1722:A:O2'	57:AA:1739:U:C5'	2.61	0.48
3:Bd:116:GLN:HG3	22:Ba:407:G:O2'	2.13	0.48
5:Bf:8:ILE:HG12	5:Bf:88:VAL:HG22	1.96	0.48
5:Bf:24:GLU:HG2	5:Bf:28:ARG:NH1	2.28	0.48
7:Bh:51:VAL:HG11	7:Bh:60:ARG:HD3	1.95	0.48
7:Bh:83:ILE:HG23	7:Bh:83:ILE:O	2.14	0.48
8:Bi:118:LYS:NZ	22:Ba:1349:A:OP2	2.41	0.48
11:Bl:38:THR:CG2	11:Bl:57:LYS:HB2	2.44	0.48
12:Bm:48:LEU:HD11	12:Bm:53:VAL:HG22	1.96	0.48
14:Bo:76:GLU:C	14:Bo:78:TYR:N	2.71	0.48
17:Br:25:THR:HG22	17:Br:42:ARG:HH11	1.79	0.48
21:By:81:ARG:HH21	21:By:82:GLU:HA	1.79	0.48
22:Ba:164:U:H2'	22:Ba:165:C:H6	1.79	0.48
22:Ba:243:A:O2'	22:Ba:244:U:OP2	2.30	0.48
22:Ba:1005:A:H4'	22:Ba:1037:C:O2'	2.14	0.48
22:Ba:1032:G:H2'	22:Ba:1033:G:H8	1.79	0.48
22:Ba:1052:U:H2'	22:Ba:1055:A:OP1	2.13	0.48
22:Ba:1095:U:P	22:Ba:1108:G:H1	2.37	0.48
27:BD:70:TRP:CZ3	27:BD:146:GLU:OE2	2.67	0.48
28:BE:67:PHE:O	28:BE:70:ALA:HB2	2.14	0.48
28:BE:117:MET:O	28:BE:118:LYS:CB	2.62	0.48
30:BG:127:GLY:O	30:BG:129:GLY:N	2.47	0.48
31:BH:18:GLU:O	31:BH:24:VAL:HG23	2.14	0.48
32:BI:2:LYS:HD3	32:BI:20:ASP:CB	2.30	0.48
32:BI:31:LEU:HB2	32:BI:32:PRO:HD3	1.95	0.48
34:BN:79:PRO:C	34:BN:81:GLY:N	2.70	0.48
35:BO:102:VAL:HG22	35:BO:121:VAL:HG22	1.95	0.48
36:BP:112:LEU:HD13	36:BP:113:LYS:N	2.28	0.48
37:BQ:21:THR:O	37:BQ:22:LYS:HB3	2.14	0.48
38:BR:46:GLY:HA2	57:BA:2839:G:H5'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BU:92:ARG:HG3	57:BA:996:A:O2'	2.14	0.48
47:B0:32:ARG:O	47:B0:33:ALA:C	2.57	0.48
48:B1:6:GLU:C	48:B1:7:ILE:HD12	2.38	0.48
51:B4:18:CYS:O	51:B4:20:ASN:N	2.46	0.48
51:B4:47:GLN:O	51:B4:48:ARG:HB3	2.13	0.48
57:BA:178:G:O2'	57:BA:179:G:H5'	2.13	0.48
57:BA:623:G:H2'	57:BA:624:C:C6	2.49	0.48
57:BA:1208:C:H2'	57:BA:1208:C:O2	2.14	0.48
57:BA:1484:G:C3'	57:BA:1485:G:H5"	2.44	0.48
57:BA:1579:A:H2'	57:BA:1580:A:O4'	2.13	0.48
57:BA:1831:G:O2'	57:BA:1832:C:H5'	2.13	0.48
57:BA:2008:C:H2'	57:BA:2009:G:H8	1.78	0.48
57:BA:2073:C:O2'	57:BA:2074:U:H5'	2.14	0.48
57:BA:2155:G:H2'	57:BA:2156:G:O4'	2.14	0.48
57:BA:2236:C:C2'	57:BA:2237:G:H5'	2.43	0.48
57:BA:2361:A:C2'	57:BA:2362:G:H5'	2.44	0.48
57:BA:2405:G:O2'	57:BA:2406:U:P	2.72	0.48
1:Ab:81:VAL:O	1:Ab:85:ALA:HB2	2.14	0.48
2:Ac:173:VAL:O	2:Ac:173:VAL:HG12	2.14	0.48
3:Ad:150:GLU:CG	3:Ad:151:LYS:N	2.76	0.48
3:Ad:206:PHE:CD2	3:Ad:206:PHE:C	2.91	0.48
4:Ae:20:GLN:O	4:Ae:23:GLY:O	2.31	0.48
10:Ak:110:ASP:O	17:Ar:84:LYS:HD2	2.14	0.48
14:Ao:23:GLY:O	14:Ao:27:VAL:HB	2.14	0.48
22:Aa:318:G:H2'	22:Aa:319:G:H8	1.78	0.48
22:Aa:323:U:H2'	22:Aa:324:G:O4'	2.14	0.48
22:Aa:601:C:H2'	22:Aa:602:A:C8	2.48	0.48
22:Aa:742:G:O2'	22:Aa:743:U:H5'	2.14	0.48
22:Aa:784:C:H2'	22:Aa:785:G:H8	1.79	0.48
22:Aa:926:G:C6	22:Aa:1505:G:C6	3.02	0.48
27:AD:96:HIS:ND1	27:AD:102:LYS:HD3	2.28	0.48
27:AD:148:GLU:CB	27:AD:151:LYS:HD2	2.44	0.48
28:AE:187:ALA:CB	57:AA:2729:G:H1'	2.44	0.48
29:AF:125:LEU:HD13	29:AF:199:TRP:CG	2.48	0.48
30:AG:38:VAL:HG22	30:AG:93:THR:HG23	1.96	0.48
32:AI:71:ILE:O	32:AI:75:LEU:HD13	2.14	0.48
32:AI:73:GLU:OE1	32:AI:137:PRO:HD2	2.13	0.48
34:AN:85:ILE:HD12	34:AN:90:MET:HE3	1.96	0.48
35:AO:7:TYR:C	35:AO:8:LEU:HD22	2.39	0.48
35:AO:47:ILE:HG13	35:AO:48:PRO:HD2	1.95	0.48
36:AP:16:ARG:HG3	36:AP:17:LYS:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:33:ARG:CZ	57:AA:587:C:C2'	2.86	0.48
39:AS:28:VAL:HG21	39:AS:87:PHE:HE1	1.79	0.48
40:AT:12:SER:O	40:AT:13:ARG:NH2	2.47	0.48
40:AT:107:ASP:H	40:AT:110:ILE:HG12	1.79	0.48
41:AU:92:ARG:CG	57:AA:996:A:H4'	2.44	0.48
43:AW:61:ASN:N	43:AW:61:ASN:ND2	2.62	0.48
45:AY:2:ARG:HG3	57:AA:105:C:O2'	2.14	0.48
45:AY:97:ARG:C	45:AY:99:CYS:N	2.68	0.48
51:A4:18:CYS:O	51:A4:20:ASN:N	2.46	0.48
57:AA:142:A:H1'	57:AA:1408:C:O4'	2.14	0.48
57:AA:314:A:O2'	57:AA:315:G:H5'	2.13	0.48
57:AA:1049:C:N4	57:AA:1111:A:H2	2.12	0.48
57:AA:1721:G:C2	57:AA:1739:U:OP2	2.67	0.48
57:AA:2481:G:O2'	57:AA:2482:G:P	2.72	0.48
57:AA:2681:C:C5	57:AA:2725:A:N6	2.64	0.48
58:AB:73:A:H2'	58:AB:74:U:H5'	1.95	0.48
1:Bb:224:GLN:C	1:Bb:226:ARG:H	2.21	0.48
2:Bc:140:ARG:CZ	2:Bc:140:ARG:HB2	2.44	0.48
3:Bd:196:LEU:O	3:Bd:198:VAL:N	2.45	0.48
4:Be:72:GLN:O	4:Be:75:THR:HG22	2.13	0.48
5:Bf:55:ASP:HB2	5:Bf:86:ARG:HH12	1.78	0.48
6:Bg:37:ASN:HD21	8:Bi:40:LEU:HA	1.78	0.48
7:Bh:21:LYS:O	7:Bh:65:TYR:OH	2.30	0.48
9:Bj:34:VAL:CG2	9:Bj:74:ILE:HG22	2.43	0.48
10:Bk:124:LYS:NZ	10:Bk:125:PHE:HE1	2.07	0.48
14:Bo:37:ASN:N	14:Bo:37:ASN:HD22	2.10	0.48
21:By:5:LEU:HA	21:By:73:VAL:CB	2.27	0.48
21:By:67:ILE:CB	21:By:72:VAL:HG13	2.28	0.48
22:Ba:67:C:O2'	22:Ba:171:A:H1'	2.14	0.48
22:Ba:112:G:H5'	22:Ba:389:A:H4'	1.96	0.48
22:Ba:902:G:O2'	22:Ba:903:G:H5'	2.14	0.48
22:Ba:1316:G:C2'	22:Ba:1317:C:H5"	2.44	0.48
26:BC:175:PRO:HD3	57:BA:2124:G:H5'	1.96	0.48
27:BD:209:ALA:C	27:BD:210:GLY:O	2.45	0.48
28:BE:93:VAL:O	28:BE:95:ILE:N	2.46	0.48
29:BF:9:ILE:HG22	29:BF:11:VAL:C	2.38	0.48
29:BF:62:ARG:HG2	29:BF:63:LYS:H	1.79	0.48
29:BF:102:PRO:HA	57:BA:607:U:OP1	2.13	0.48
30:BG:16:ARG:NE	30:BG:31:VAL:HG11	2.29	0.48
30:BG:51:ARG:HH11	30:BG:53:LEU:HD21	1.78	0.48
36:BP:9:ASN:O	36:BP:11:GLY:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:85:LEU:HG	36:BP:118:GLY:O	2.14	0.48
37:BQ:12:GLN:HE21	37:BQ:73:PRO:HD3	1.78	0.48
37:BQ:35:VAL:HG23	37:BQ:101:ARG:O	2.14	0.48
40:BT:55:ASN:HD22	40:BT:58:ASN:ND2	2.12	0.48
41:BU:31:SER:HB3	41:BU:34:LYS:HB2	1.94	0.48
41:BU:85:LYS:O	41:BU:86:ALA:C	2.57	0.48
41:BU:90:VAL:HG21	42:BV:47:VAL:CG2	2.41	0.48
45:BY:47:LYS:HD2	45:BY:60:PHE:CE2	2.49	0.48
52:B5:4:HIS:O	57:BA:2056:G:N2	2.46	0.48
57:BA:185:U:H2'	57:BA:186:G:H8	1.78	0.48
57:BA:464:U:H2'	57:BA:465:G:O4'	2.14	0.48
57:BA:846:C:N3	57:BA:930:U:C4	2.82	0.48
57:BA:1488:G:H2'	57:BA:1488:G:N3	2.28	0.48
57:BA:1528:A:C2	57:BA:1542:A:H2	2.32	0.48
57:BA:1947:C:C3'	57:BA:1948:G:C5'	2.92	0.48
57:BA:2223:G:O2'	57:BA:2224:G:H5'	2.13	0.48
57:BA:2360:A:O2'	57:BA:2361:A:P	2.72	0.48
57:BA:2552:U:C2	57:BA:2554:U:H5'	2.49	0.48
57:BA:2688:U:H1'	57:BA:2721:A:H61	1.78	0.48
57:BA:2773:C:O2'	57:BA:2774:C:H5'	2.14	0.48
3:Ad:59:ARG:HH21	3:Ad:62:GLN:CB	2.26	0.47
3:Ad:101:LEU:CB	3:Ad:138:TYR:HB3	2.44	0.47
3:Ad:170:VAL:O	3:Ad:171:GLY:C	2.57	0.47
6:Ag:31:MET:HE1	22:Aa:1374:A:H1'	1.96	0.47
7:Ah:21:LYS:O	7:Ah:63:LEU:HD23	2.14	0.47
8:Ai:125:TYR:HB3	22:Aa:1342:C:H4'	1.94	0.47
10:Ak:21:ILE:HD13	10:Ak:82:VAL:HG13	1.96	0.47
10:Ak:66:LEU:C	10:Ak:68:ALA:N	2.70	0.47
11:Al:31:PRO:HD2	22:Aa:363:A:C5	2.49	0.47
17:Ar:36:ASN:O	17:Ar:39:VAL:HG23	2.14	0.47
19:At:30:LYS:HG3	19:At:34:LYS:HE3	1.95	0.47
21:Ay:71:VAL:O	21:Ay:71:VAL:HG12	2.13	0.47
22:Aa:556:C:O2'	22:Aa:557:G:H5'	2.15	0.47
22:Aa:648:A:H2'	22:Aa:649:G:C8	2.49	0.47
22:Aa:1049:U:O2'	22:Aa:1050:G:OP2	2.32	0.47
24:Av:66:C:H2'	24:Av:67:C:O4'	2.14	0.47
27:AD:46:GLN:N	27:AD:46:GLN:CD	2.69	0.47
27:AD:124:PRO:O	27:AD:126:GLN:N	2.47	0.47
30:AG:161:THR:HG22	30:AG:162:THR:N	2.29	0.47
33:AJ:15:GLU:HA	33:AJ:65:GLU:O	2.14	0.47
36:AP:146:VAL:HG13	36:AP:147:LEU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:AQ:76:LYS:CB	37:AQ:91:GLU:HG3	2.43	0.47
39:AS:59:LYS:HD2	39:AS:61:ASN:HB2	1.96	0.47
39:AS:89:ARG:HH11	39:AS:92:TYR:HA	1.79	0.47
40:AT:30:VAL:HG11	40:AT:84:GLN:NE2	2.29	0.47
42:AV:35:LEU:O	42:AV:36:PRO:C	2.57	0.47
42:AV:49:THR:O	42:AV:50:PRO:C	2.55	0.47
43:AW:75:TYR:CD2	43:AW:104:THR:HB	2.49	0.47
45:AY:7:VAL:C	45:AY:8:LYS:HD2	2.38	0.47
45:AY:96:ILE:HD13	45:AY:99:CYS:SG	2.54	0.47
46:AZ:91:LEU:HD12	46:AZ:91:LEU:H	1.79	0.47
48:A1:22:GLY:O	48:A1:32:LYS:HE3	2.14	0.47
48:A1:45:ASN:CG	57:AA:2230:G:H1'	2.39	0.47
57:AA:271(P):C:C2'	57:AA:271(Q):G:H5'	2.44	0.47
57:AA:877:U:O2'	57:AA:878:A:H5"	2.14	0.47
57:AA:1051:G:C2	57:AA:1052:C:N4	2.81	0.47
57:AA:1216:G:N2	57:AA:1234:U:H1'	2.29	0.47
57:AA:1494:A:O2'	57:AA:1496:A:C2	2.66	0.47
57:AA:1710:C:O2'	57:AA:1711:C:H5'	2.14	0.47
57:AA:1821:A:H2'	57:AA:1822:G:C8	2.49	0.47
57:AA:2285:C:H5'	57:AA:2288:A:N6	2.29	0.47
58:AB:13:A:O2'	58:AB:14:U:H5"	2.14	0.47
2:Bc:22:TRP:HE3	2:Bc:23:TYR:O	1.96	0.47
2:Bc:153:VAL:CG1	2:Bc:154:SER:N	2.76	0.47
2:Bc:195:VAL:HG23	22:Ba:1205:U:O2'	2.14	0.47
3:Bd:12:CYS:HA	3:Bd:19:LEU:HD13	1.95	0.47
4:Be:91:LEU:HD13	4:Be:120:THR:HG22	1.96	0.47
7:Bh:86:ILE:HG22	7:Bh:87:SER:N	2.29	0.47
7:Bh:111:ILE:C	7:Bh:112:LEU:HD23	2.39	0.47
8:Bi:18:PHE:CD1	8:Bi:62:TYR:HD2	2.27	0.47
12:Bm:34:LEU:HD13	12:Bm:41:PRO:HG3	1.96	0.47
18:Bs:54:GLY:O	22:Ba:986:A:H1'	2.14	0.47
21:By:88:SER:C	21:By:90:ALA:N	2.72	0.47
22:Ba:648:A:H2'	22:Ba:649:G:C8	2.48	0.47
22:Ba:715:A:O2'	22:Ba:716:A:H5'	2.13	0.47
22:Ba:818:G:C3'	22:Ba:819:A:C5'	2.92	0.47
26:BC:30:VAL:CG1	26:BC:42:VAL:HG22	2.44	0.47
28:BE:59:VAL:CG2	28:BE:62:PRO:HG2	2.44	0.47
30:BG:173:LEU:HD22	30:BG:178:PHE:CE1	2.49	0.47
31:BH:94:TYR:N	31:BH:94:TYR:CD1	2.82	0.47
32:BI:103:ARG:O	32:BI:104:GLN:C	2.57	0.47
36:BP:93:GLY:O	36:BP:123:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:35:ILE:HD11	39:BS:99:LYS:CE	2.41	0.47
41:BU:107:ALA:O	41:BU:110:VAL:HB	2.13	0.47
43:BW:12:ILE:HB	43:BW:42:ARG:HH12	1.78	0.47
48:B1:11:ARG:NH1	48:B1:11:ARG:CB	2.77	0.47
51:B4:15:ILE:N	51:B4:31:ILE:O	2.47	0.47
53:B6:52:VAL:CG2	53:B6:53:LYS:N	2.76	0.47
57:BA:274:G:C6	57:BA:276:A:N6	2.82	0.47
57:BA:1040:C:HO2'	57:BA:1041:C:C5'	2.26	0.47
57:BA:2062:A:O2'	57:BA:2063:C:H5'	2.14	0.47
57:BA:2094:G:H1'	57:BA:2198:A:N6	2.29	0.47
57:BA:2422:A:H4'	57:BA:2423:U:OP1	2.13	0.47
2:Ac:2:GLY:HA2	22:Aa:1060:C:H5	1.78	0.47
2:Ac:5:ILE:O	2:Ac:6:HIS:C	2.57	0.47
3:Ad:96:LEU:HB3	3:Ad:139:ARG:NH2	2.21	0.47
4:Ae:6:PHE:N	4:Ae:6:PHE:CD1	2.82	0.47
5:Af:4:TYR:CD1	5:Af:92:LYS:HA	2.48	0.47
10:Ak:121:PRO:C	10:Ak:122:LYS:O	2.57	0.47
12:Am:28:ALA:HB3	22:Aa:1329:A:P	2.54	0.47
12:Am:69:GLU:O	12:Am:69:GLU:CD	2.57	0.47
12:Am:99:ARG:O	12:Am:100:GLY:C	2.55	0.47
15:Ap:28:ARG:HG2	15:Ap:28:ARG:NH1	2.28	0.47
22:Aa:762:C:H2'	22:Aa:763:G:C8	2.48	0.47
22:Aa:953:G:H2'	22:Aa:954:G:O4'	2.13	0.47
22:Aa:1076:C:C2	22:Aa:1082:G:C2	3.02	0.47
22:Aa:1095:U:P	22:Aa:1108:G:H1	2.37	0.47
22:Aa:1255:G:H5'	22:Aa:1256:A:OP1	2.13	0.47
22:Aa:1425:U:H2'	22:Aa:1426:C:H6	1.78	0.47
22:Aa:1498:U:H1'	22:Aa:1499:A:N7	2.28	0.47
26:AC:29:LEU:HD22	26:AC:33:LEU:HD11	1.96	0.47
28:AE:62:PRO:C	28:AE:64:LYS:H	2.22	0.47
29:AF:53:THR:H	29:AF:56:GLU:HG3	1.79	0.47
30:AG:68:PRO:CA	30:AG:92:VAL:HB	2.43	0.47
30:AG:163:ALA:CB	30:AG:169:ALA:HB2	2.44	0.47
32:AI:77:LEU:HD13	32:AI:140:LEU:HA	1.96	0.47
39:AS:59:LYS:CD	39:AS:61:ASN:HB2	2.44	0.47
41:AU:110:VAL:O	41:AU:113:ALA:HB3	2.14	0.47
42:AV:19:LYS:HG3	42:AV:20:LEU:O	2.13	0.47
46:AZ:9:TYR:CE2	46:AZ:35:ARG:NH1	2.82	0.47
46:AZ:54:HIS:HB3	46:AZ:101:PRO:HD3	1.95	0.47
46:AZ:72:ARG:HG2	58:AB:104:U:O2'	2.13	0.47
46:AZ:140:ASP:O	46:AZ:141:VAL:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:A2:63:VAL:C	49:A2:66:GLU:HG2	2.38	0.47
50:A3:1:MET:O	50:A3:3:ARG:HG3	2.14	0.47
51:A4:31:ILE:HD12	51:A4:31:ILE:N	2.30	0.47
51:A4:51:ASP:OD2	51:A4:52:THR:HG23	2.14	0.47
52:A5:49:CYS:O	52:A5:51:TYR:N	2.47	0.47
54:A7:28:ARG:NH1	54:A7:28:ARG:HG3	2.29	0.47
57:AA:623:G:H2'	57:AA:624:C:C6	2.49	0.47
57:AA:679:C:H2'	57:AA:680:G:H8	1.79	0.47
57:AA:1578:U:H2'	57:AA:1579:A:H5'	1.95	0.47
57:AA:2639:A:C2'	57:AA:2640:G:H5'	2.43	0.47
2:Bc:5:ILE:O	2:Bc:6:HIS:C	2.57	0.47
2:Bc:92:ALA:HB2	2:Bc:99:VAL:HG21	1.94	0.47
2:Bc:157:ILE:C	2:Bc:159:GLY:N	2.72	0.47
5:Bf:36:ARG:O	5:Bf:65:VAL:HB	2.14	0.47
6:Bg:79:ARG:HG2	6:Bg:80:VAL:H	1.77	0.47
21:By:51:TYR:CE1	21:By:64:TYR:HB3	2.49	0.47
22:Ba:341:C:H2'	22:Ba:342:C:C6	2.49	0.47
22:Ba:946:A:H2'	22:Ba:947:G:H8	1.78	0.47
22:Ba:1040:U:H2'	22:Ba:1041:A:H8	1.79	0.47
22:Ba:1065:U:C5	22:Ba:1190:G:H1'	2.49	0.47
27:BD:229:VAL:HG21	57:BA:784:A:N7	2.29	0.47
27:BD:259:THR:HG21	57:BA:1803:A:C4'	2.43	0.47
27:BD:268:ARG:H	27:BD:270:ILE:HD11	1.80	0.47
28:BE:52:LEU:N	28:BE:74:PRO:HB3	2.29	0.47
28:BE:107:THR:HA	28:BE:163:GLU:O	2.14	0.47
28:BE:111:ARG:HA	38:BR:2:ARG:CG	2.44	0.47
31:BH:50:VAL:HG12	31:BH:51:ARG:H	1.78	0.47
33:BJ:51:LEU:O	33:BJ:88:ALA:CB	2.62	0.47
36:BP:63:PRO:C	36:BP:65:ARG:N	2.70	0.47
38:BR:36:THR:HG22	57:BA:1278:A:C5'	2.43	0.47
38:BR:55:ALA:HA	38:BR:80:PHE:CE1	2.49	0.47
39:BS:92:TYR:CG	39:BS:93:LYS:N	2.75	0.47
40:BT:25:GLY:H	40:BT:49:VAL:CG1	2.27	0.47
40:BT:129:ARG:HH22	40:BT:131:ALA:HB2	1.80	0.47
41:BU:110:VAL:O	41:BU:113:ALA:HB3	2.15	0.47
41:BU:112:ARG:NH2	42:BV:46:VAL:HG11	2.27	0.47
42:BV:47:VAL:O	42:BV:49:THR:O	2.32	0.47
46:BZ:150:LEU:N	46:BZ:150:LEU:CD2	2.66	0.47
48:B1:11:ARG:HB2	48:B1:12:PRO:HD2	1.96	0.47
50:B3:8:LEU:HD11	50:B3:31:LEU:HD23	1.90	0.47
50:B3:19:GLN:NE2	50:B3:52:HIS:CE1	2.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:35:GLU:O	52:B5:49:CYS:HB2	2.14	0.47
53:B6:15:GLU:C	53:B6:16:CYS:O	2.54	0.47
54:B7:34:ARG:HD3	54:B7:42:LEU:HA	1.95	0.47
57:BA:407:G:H2'	57:BA:408:G:C8	2.48	0.47
57:BA:878:A:H2'	57:BA:879:G:O4'	2.14	0.47
4:Ae:36:ASP:O	4:Ae:37:ARG:CG	2.59	0.47
4:Ae:102:ALA:HB1	4:Ae:106:PRO:HG2	1.96	0.47
6:Ag:62:PHE:HD1	6:Ag:124:LEU:HD11	1.78	0.47
6:Ag:78:ARG:CZ	6:Ag:79:ARG:O	2.62	0.47
6:Ag:88:PRO:O	6:Ag:89:MET:HB3	2.15	0.47
7:Ah:111:ILE:C	7:Ah:112:LEU:HD23	2.39	0.47
8:Ai:4:TYR:CZ	8:Ai:59:PHE:HE2	2.32	0.47
9:Aj:42:THR:HA	9:Aj:68:HIS:HA	1.96	0.47
10:Ak:79:SER:HB2	10:Ak:106:LYS:CD	2.38	0.47
15:Ap:15:PRO:O	15:Ap:16:HIS:ND1	2.47	0.47
15:Ap:34:GLU:OE2	15:Ap:55:ARG:HD3	2.14	0.47
17:Ar:25:THR:HG22	17:Ar:42:ARG:HH11	1.79	0.47
17:Ar:65:ILE:O	17:Ar:69:THR:HG23	2.14	0.47
19:At:74:LYS:C	19:At:76:ALA:H	2.22	0.47
20:Au:17:THR:HG21	22:Aa:1325:C:H4'	1.96	0.47
22:Aa:180:U:C2'	22:Aa:181:G:H5"	2.44	0.47
22:Aa:1105:A:H2'	22:Aa:1106:G:C8	2.47	0.47
22:Aa:1341:U:O2'	22:Aa:1342:C:H5'	2.15	0.47
24:Av:17(A):U:H5"	24:Av:18:G:OP1	2.13	0.47
27:AD:241:PRO:C	27:AD:242:ARG:HD2	2.39	0.47
28:AE:46:ALA:HB1	28:AE:82:ARG:HA	1.96	0.47
28:AE:103:ASP:CG	28:AE:168:MET:HE2	2.39	0.47
30:AG:37:VAL:O	30:AG:94:LEU:HB2	2.15	0.47
31:AH:56:SER:HB2	31:AH:58:GLU:HG3	1.95	0.47
33:AJ:118:THR:O	33:AJ:119:ALA:HB3	2.15	0.47
36:AP:16:ARG:NH1	57:AA:661:C:H4'	2.29	0.47
36:AP:77:ARG:HB2	36:AP:78:PRO:HD2	1.97	0.47
37:AQ:10:ARG:NH1	37:AQ:10:ARG:CB	2.76	0.47
38:AR:101:ALA:HA	52:A5:44:THR:HG21	1.95	0.47
40:AT:129:ARG:HH22	40:AT:131:ALA:HB2	1.77	0.47
41:AU:65:ILE:HG12	41:AU:96:ALA:CB	2.44	0.47
42:AV:39:LEU:HB3	42:AV:47:VAL:CG1	2.45	0.47
42:AV:49:THR:HB	42:AV:50:PRO:HD2	1.96	0.47
45:AY:20:TYR:CZ	45:AY:42:VAL:HA	2.49	0.47
45:AY:77:PRO:O	45:AY:78:ALA:HB2	2.13	0.47
48:A1:56:GLN:CB	48:A1:87:PRO:HB3	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:A2:44:LEU:O	49:A2:45:SER:HB3	2.15	0.47
52:A5:35:GLU:O	52:A5:36:CYS:CB	2.62	0.47
57:AA:440:G:H2'	57:AA:441:U:H6	1.79	0.47
57:AA:614:U:O2	57:AA:614:U:O4'	2.31	0.47
57:AA:664:C:H4'	57:AA:941:A:OP1	2.15	0.47
57:AA:676:A:H2	57:AA:802:A:N6	2.08	0.47
57:AA:1313:U:H2'	57:AA:1610:A:C2	2.49	0.47
57:AA:1947:C:H2'	57:AA:1948:G:C5'	2.45	0.47
57:AA:2108:C:O2'	57:AA:2109:U:H5'	2.13	0.47
57:AA:2280:G:O2'	57:AA:2281:C:H5'	2.15	0.47
57:AA:2465:C:O2'	57:AA:2466:C:H5'	2.14	0.47
57:AA:2791:C:O2	57:AA:2791:C:H2'	2.14	0.47
2:Bc:20:SER:CB	2:Bc:40:ARG:HH22	2.25	0.47
3:Bd:134:ASP:OD2	3:Bd:134:ASP:N	2.44	0.47
4:Be:102:ALA:HB1	4:Be:106:PRO:HG2	1.96	0.47
4:Be:148:VAL:O	4:Be:150:ARG:N	2.47	0.47
7:Bh:30:ARG:CB	7:Bh:30:ARG:HH11	2.27	0.47
9:Bj:48:THR:HG21	22:Ba:1367:C:H4'	1.96	0.47
10:Bk:20:TYR:O	10:Bk:30:VAL:HA	2.13	0.47
12:Bm:30:ALA:C	12:Bm:32:GLU:N	2.68	0.47
17:Br:35:ARG:C	17:Br:37:VAL:N	2.73	0.47
21:By:20:SER:HA	21:By:23:ARG:NH1	2.27	0.47
22:Ba:397:A:H3'	22:Ba:397:A:N3	2.29	0.47
22:Ba:600:C:O2'	22:Ba:601:C:H5'	2.13	0.47
22:Ba:1300:G:O2'	22:Ba:1301:U:P	2.71	0.47
22:Ba:1342:C:H2'	22:Ba:1343:G:C8	2.46	0.47
29:BF:3:GLU:HA	29:BF:24:LEU:CG	2.45	0.47
29:BF:18:ARG:HG2	29:BF:19:GLU:N	2.30	0.47
31:BH:7:LEU:CD2	31:BH:65:HIS:NE2	2.77	0.47
32:BI:129:THR:HG23	32:BI:136:VAL:C	2.39	0.47
37:BQ:135:ASP:HB3	46:BZ:49:ARG:NH1	2.29	0.47
38:BR:65:LEU:HD12	38:BR:65:LEU:HA	1.66	0.47
39:BS:13:ARG:CG	39:BS:14:VAL:N	2.78	0.47
45:BY:68:HIS:HB3	45:BY:71:LYS:CG	2.43	0.47
49:B2:25:VAL:O	49:B2:26:ARG:C	2.56	0.47
52:B5:40:LYS:HZ3	52:B5:46:CYS:CB	2.26	0.47
52:B5:54:GLY:N	52:B5:55:ARG:HH21	2.11	0.47
57:BA:588:U:O5'	57:BA:588:U:H6	1.97	0.47
57:BA:654(A):G:H2'	57:BA:654(B):C:H5'	1.95	0.47
57:BA:1011:G:C2	57:BA:1151:G:C2	3.03	0.47
57:BA:1493:C:O2	57:BA:1493:C:H2'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1899:G:H21	57:BA:1902:C:H5	1.59	0.47
57:BA:1907:G:O2'	57:BA:1908:C:H5'	2.13	0.47
57:BA:2222:G:O2'	57:BA:2223:G:H5'	2.14	0.47
2:Ac:73:PRO:C	2:Ac:76:VAL:HG22	2.39	0.47
2:Ac:116:VAL:O	2:Ac:119:ARG:HB3	2.14	0.47
4:Ae:83:GLU:HG2	4:Ae:88:LYS:HB2	1.95	0.47
4:Ae:102:ALA:HB1	4:Ae:106:PRO:CG	2.44	0.47
5:Af:60:PHE:CE2	17:Ar:78:LEU:HD21	2.49	0.47
6:Ag:29:LYS:NZ	22:Aa:1375:A:H4'	2.29	0.47
7:Ah:23:SER:OG	7:Ah:60:ARG:HG3	2.15	0.47
7:Ah:110:ALA:HB3	7:Ah:121:ASP:HB3	1.96	0.47
12:Am:6:GLY:C	12:Am:8:GLU:H	2.22	0.47
12:Am:97:PRO:O	12:Am:100:GLY:N	2.47	0.47
19:At:81:LYS:O	19:At:83:ARG:N	2.47	0.47
19:At:89:ARG:NH2	22:Aa:188:C:O4'	2.46	0.47
22:Aa:520:A:C2	22:Aa:536:C:H1'	2.50	0.47
22:Aa:1065:U:C5	22:Aa:1190:G:H1'	2.49	0.47
22:Aa:1250:A:H2	22:Aa:1370:G:H1'	1.79	0.47
28:AE:116:VAL:HG21	28:AE:122:PHE:CE2	2.49	0.47
29:AF:63:LYS:HE3	29:AF:67:GLN:HB2	1.95	0.47
29:AF:177:ALA:HB1	29:AF:178:PRO:HD2	1.95	0.47
30:AG:28:VAL:C	30:AG:30:GLU:N	2.73	0.47
31:AH:98:LEU:HD12	31:AH:102:ALA:O	2.14	0.47
35:AO:77:ILE:HD13	40:AT:74:ARG:HD3	1.95	0.47
37:AQ:137:TYR:HE2	46:AZ:81:ARG:NH1	2.12	0.47
42:AV:15:GLU:CB	42:AV:16:PRO:HD2	2.44	0.47
43:AW:34:ASN:ND2	52:A5:39:MET:HG3	2.30	0.47
44:AX:55:ASN:O	44:AX:79:ALA:HA	2.14	0.47
45:AY:50:ARG:NE	57:AA:484:C:OP1	2.47	0.47
46:AZ:44:PHE:CD1	46:AZ:44:PHE:C	2.92	0.47
48:A1:4:VAL:HG23	48:A1:10:LYS:O	2.14	0.47
48:A1:23:LYS:O	48:A1:29:GLY:O	2.32	0.47
49:A2:13:ALA:HA	49:A2:16:LEU:CD1	2.44	0.47
53:A6:11:LEU:HD13	53:A6:11:LEU:N	2.30	0.47
53:A6:36:LEU:HD12	53:A6:49:HIS:O	2.15	0.47
57:AA:49:A:H5"	57:AA:51:G:O4'	2.14	0.47
57:AA:708:C:H5'	57:AA:709:U:OP2	2.15	0.47
57:AA:2008:C:H2'	57:AA:2009:G:H8	1.79	0.47
57:AA:2041:U:H2'	57:AA:2042:A:H8	1.79	0.47
57:AA:2807:G:H2'	57:AA:2808:U:H5"	1.97	0.47
57:AA:2815:C:H2'	57:AA:2816:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:18:GLY:CA	1:Bb:42:ILE:HG22	2.44	0.47
1:Bb:140:HIS:C	1:Bb:143:GLU:HG2	2.39	0.47
2:Bc:11:ARG:O	2:Bc:12:LEU:C	2.57	0.47
3:Bd:3:ARG:O	3:Bd:4:TYR:C	2.58	0.47
3:Bd:122:ARG:C	3:Bd:124:GLY:H	2.22	0.47
4:Be:83:GLU:HG2	4:Be:88:LYS:HB2	1.95	0.47
7:Bh:30:ARG:HH11	7:Bh:30:ARG:HB2	1.79	0.47
12:Bm:6:GLY:HA3	12:Bm:8:GLU:OE1	2.14	0.47
22:Ba:216:G:H2'	22:Ba:217:C:C6	2.49	0.47
22:Ba:1407:C:O2'	57:BA:1912:A:N1	2.44	0.47
27:BD:30:GLU:OE1	27:BD:63:ARG:HG2	2.15	0.47
29:BF:4:VAL:HG22	29:BF:19:GLU:CD	2.39	0.47
31:BH:136:ILE:N	31:BH:136:ILE:CD1	2.78	0.47
36:BP:17:LYS:C	36:BP:19:VAL:H	2.22	0.47
37:BQ:137:TYR:C	37:BQ:138:ASP:CG	2.83	0.47
43:BW:61:ASN:N	43:BW:61:ASN:HD22	2.11	0.47
46:BZ:150:LEU:HD23	46:BZ:150:LEU:H	1.77	0.47
55:B8:52:LYS:O	55:B8:56:GLU:OE1	2.32	0.47
57:BA:2138:C:H2'	57:BA:2139:C:C6	2.50	0.47
57:BA:2332:U:H5'	57:BA:2336:A:N6	2.29	0.47
57:BA:2774:C:H2'	57:BA:2775:A:O4'	2.14	0.47
58:BB:13:A:O2'	58:BB:14:U:H5"	2.14	0.47
58:BB:30:C:H4'	58:BB:58:A:C2	2.49	0.47
1:Ab:78:GLN:HA	1:Ab:94:ASN:OD1	2.14	0.47
3:Ad:96:LEU:N	3:Ad:96:LEU:CD1	2.77	0.47
3:Ad:122:ARG:C	3:Ad:124:GLY:H	2.21	0.47
4:Ae:72:GLN:O	4:Ae:75:THR:HG22	2.14	0.47
7:Ah:4:ASP:CG	7:Ah:85:ARG:HH21	2.23	0.47
7:Ah:30:ARG:CB	7:Ah:30:ARG:HH11	2.28	0.47
7:Ah:122:ARG:NH1	7:Ah:122:ARG:CB	2.74	0.47
8:Ai:32:ASP:HB3	8:Ai:35:GLU:HB3	1.97	0.47
8:Ai:118:LYS:NZ	22:Aa:1349:A:OP2	2.45	0.47
10:Ak:118:GLY:HA2	22:Aa:716:A:N3	2.30	0.47
19:At:47:GLY:O	19:At:48:LYS:C	2.57	0.47
21:Ay:70:LYS:O	21:Ay:71:VAL:C	2.57	0.47
22:Aa:243:A:O2'	22:Aa:244:U:OP2	2.32	0.47
22:Aa:328:C:H4'	22:Aa:329:A:O5'	2.13	0.47
22:Aa:376:G:O2'	22:Aa:377:G:H5'	2.14	0.47
22:Aa:401:C:H2'	22:Aa:402:G:H8	1.80	0.47
22:Aa:939:G:H2'	22:Aa:940:C:C6	2.49	0.47
22:Aa:1104:G:H2'	22:Aa:1105:A:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1106:G:H2'	22:Aa:1107:C:C6	2.48	0.47
22:Aa:1222:G:O2'	22:Aa:1223:C:H5'	2.15	0.47
27:AD:98:VAL:C	27:AD:100:GLY:N	2.67	0.47
27:AD:231:HIS:CG	27:AD:232:PRO:HD2	2.49	0.47
29:AF:92:PRO:HB3	57:AA:1248:G:OP2	2.14	0.47
29:AF:99:TYR:CE2	57:AA:660:G:H5'	2.49	0.47
30:AG:36:LYS:HD3	30:AG:38:VAL:CG2	2.45	0.47
34:AN:62:VAL:CG2	34:AN:66:LYS:HD2	2.45	0.47
34:AN:119:ARG:NH1	34:AN:119:ARG:HG3	2.28	0.47
36:AP:108:LYS:C	36:AP:110:TYR:N	2.72	0.47
37:AQ:60:ARG:HA	46:AZ:179:ASP:HA	1.96	0.47
37:AQ:137:TYR:C	37:AQ:138:ASP:CG	2.83	0.47
41:AU:92:ARG:HD2	42:AV:11:GLN:HB2	1.94	0.47
42:AV:89:GLN:HG3	57:AA:993:G:O2'	2.14	0.47
43:AW:79:GLY:O	43:AW:100:THR:HG22	2.14	0.47
53:A6:15:GLU:CD	53:A6:44:ARG:NH2	2.71	0.47
54:A7:40:TRP:CZ3	57:AA:459:U:H4'	2.49	0.47
57:AA:271(C):C:H2'	57:AA:271(D):G:H8	1.79	0.47
57:AA:506:G:O3'	57:AA:507:A:H8	1.98	0.47
57:AA:950:G:O2'	57:AA:951:C:H5'	2.14	0.47
57:AA:1192:G:O2'	57:AA:1193:G:H5'	2.14	0.47
57:AA:1406:U:H2'	57:AA:1407:C:C6	2.49	0.47
57:AA:1496:A:C8	57:AA:1577:C:O2'	2.65	0.47
57:AA:2138:C:H2'	57:AA:2139:C:C6	2.49	0.47
57:AA:2248:C:C2'	57:AA:2249:U:H5'	2.44	0.47
57:AA:2657:A:H3'	57:AA:2658:C:H6	1.79	0.47
57:AA:2737:G:O2'	57:AA:2738:A:H5'	2.15	0.47
58:AB:23:G:H1	58:AB:60:C:H42	1.63	0.47
1:Bb:78:GLN:HA	1:Bb:94:ASN:OD1	2.14	0.47
1:Bb:95:GLN:HE21	1:Bb:147:LYS:CE	2.27	0.47
1:Bb:140:HIS:HA	1:Bb:143:GLU:HG2	1.97	0.47
1:Bb:177:ALA:HB1	1:Bb:182:ILE:HB	1.97	0.47
3:Bd:61:LYS:CE	3:Bd:62:GLN:HE21	2.27	0.47
7:Bh:12:ARG:NH1	7:Bh:27:PRO:CD	2.69	0.47
7:Bh:26:VAL:HG13	7:Bh:59:LEU:HB2	1.96	0.47
10:Bk:18:ARG:HB2	10:Bk:33:THR:OG1	2.14	0.47
12:Bm:64:TRP:O	12:Bm:66:LEU:HG	2.14	0.47
13:Bn:26:ARG:NH1	13:Bn:47:LEU:HG	2.28	0.47
14:Bo:65:ARG:CD	14:Bo:65:ARG:H	2.28	0.47
17:Br:31:LEU:H	17:Br:31:LEU:CD2	2.27	0.47
21:By:25:GLN:HG3	22:Ba:531:U:H5	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:By:76:ILE:O	21:By:76:ILE:HG13	2.14	0.47
22:Ba:59:A:H3'	22:Ba:331:G:H22	1.78	0.47
22:Ba:403:C:O2'	22:Ba:404:U:H5'	2.15	0.47
22:Ba:706:A:C5	22:Ba:707:C:C5	3.02	0.47
22:Ba:853:G:O2'	22:Ba:854:G:H5'	2.14	0.47
22:Ba:858:G:O6	22:Ba:869:G:H3'	2.14	0.47
22:Ba:1053:G:O2'	22:Ba:1199:U:H5	1.98	0.47
22:Ba:1126:U:OP2	22:Ba:1281:U:O2	2.33	0.47
25:Bw:53:G:O2'	25:Bw:54:U:H5'	2.14	0.47
26:BC:173:HIS:CD2	26:BC:173:HIS:N	2.83	0.47
27:BD:30:GLU:OE1	27:BD:63:ARG:NE	2.46	0.47
28:BE:59:VAL:CG1	28:BE:63:LEU:HG	2.42	0.47
28:BE:131:ALA:CB	57:BA:2579:C:O2'	2.62	0.47
30:BG:104:GLU:C	30:BG:106:LEU:H	2.23	0.47
32:BI:83:ALA:HA	32:BI:89:TYR:H	1.78	0.47
32:BI:91:SER:N	32:BI:121:LYS:NZ	2.62	0.47
36:BP:19:VAL:O	36:BP:19:VAL:HG23	2.14	0.47
36:BP:47:ASP:OD1	36:BP:49:ARG:HB2	2.15	0.47
36:BP:107:LYS:C	36:BP:108:LYS:HD2	2.39	0.47
37:BQ:14:ARG:HD2	57:BA:955:C:OP2	2.14	0.47
38:BR:79:LEU:HA	38:BR:83:ILE:CG1	2.45	0.47
43:BW:88:ARG:NH1	43:BW:94:ASP:OD1	2.48	0.47
44:BX:28:PHE:N	44:BX:28:PHE:CD1	2.82	0.47
45:BY:29:GLU:OE1	45:BY:29:GLU:N	2.42	0.47
50:B3:6:VAL:HG12	50:B3:56:VAL:HG22	1.94	0.47
57:BA:272(G):C:N4	57:BA:363(C):G:H1	2.13	0.47
57:BA:606:U:H4'	57:BA:658:C:H4'	1.96	0.47
57:BA:634:C:H2'	57:BA:635:C:C6	2.49	0.47
57:BA:2062:A:C2'	57:BA:2063:C:H5'	2.44	0.47
57:BA:2093:G:H2'	57:BA:2094:G:H8	1.78	0.47
57:BA:2712:U:O2'	57:BA:2712(A):A:P	2.73	0.47
1:Ab:84:GLU:HG3	1:Ab:215:LEU:HB3	1.97	0.47
1:Ab:140:HIS:C	1:Ab:143:GLU:HG2	2.39	0.47
2:Ac:11:ARG:O	2:Ac:12:LEU:C	2.57	0.47
5:Af:36:ARG:O	5:Af:65:VAL:HB	2.14	0.47
5:Af:55:ASP:HB2	5:Af:86:ARG:HH12	1.80	0.47
6:Ag:79:ARG:HG2	6:Ag:80:VAL:H	1.77	0.47
7:Ah:61:VAL:HG12	7:Ah:63:LEU:CD1	2.43	0.47
7:Ah:84:ARG:HG2	7:Ah:84:ARG:NH1	2.29	0.47
7:Ah:94:TYR:CD2	22:Aa:598:U:H4'	2.49	0.47
9:Aj:6:ILE:HG22	9:Aj:98:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:48:THR:HG21	22:Aa:1367:C:H4'	1.95	0.47
9:Aj:57:LYS:HB2	22:Aa:972:C:O2'	2.15	0.47
11:Al:53:ARG:HH12	11:Al:92:ASP:CB	2.25	0.47
18:As:11:VAL:O	18:As:16:LEU:HD11	2.15	0.47
22:Aa:19:C:O2'	22:Aa:20:U:H5'	2.15	0.47
22:Aa:358:U:H2'	22:Aa:359:U:H6	1.79	0.47
22:Aa:1400:C:H4'	22:Aa:1401:G:OP2	2.15	0.47
27:AD:176:ARG:HA	27:AD:182:LEU:HD23	1.96	0.47
27:AD:198:ASN:O	27:AD:198:ASN:ND2	2.48	0.47
28:AE:67:PHE:O	28:AE:70:ALA:HB2	2.15	0.47
30:AG:67:LYS:NZ	58:AB:42:C:O2'	2.47	0.47
31:AH:9:ILE:O	31:AH:9:ILE:CG2	2.62	0.47
32:AI:73:GLU:CG	32:AI:74:ASN:N	2.77	0.47
36:AP:85:LEU:HG	36:AP:118:GLY:O	2.15	0.47
37:AQ:42:ILE:HG22	37:AQ:47:ILE:HG13	1.96	0.47
37:AQ:137:TYR:OH	46:AZ:81:ARG:CZ	2.63	0.47
43:AW:82:LEU:HD12	43:AW:82:LEU:HA	1.76	0.47
45:AY:28:LYS:N	45:AY:28:LYS:CE	2.78	0.47
46:AZ:7:ALA:C	46:AZ:8:TYR:CD1	2.93	0.47
47:A0:23:VAL:HG12	47:A0:25:ARG:O	2.14	0.47
50:A3:9:VAL:HG11	50:A3:55:ARG:NH2	2.29	0.47
52:A5:29:THR:HG21	57:AA:2815:C:H5'	1.96	0.47
53:A6:34:LEU:HD11	53:A6:50:ARG:HH21	1.78	0.47
57:AA:613:G:C8	57:AA:613:G:C5'	2.94	0.47
57:AA:691:C:O2'	57:AA:692:C:H5'	2.15	0.47
57:AA:1037:G:H1	57:AA:1118:C:N4	2.12	0.47
57:AA:1281:G:C8	57:AA:1281:G:H5'	2.49	0.47
57:AA:1573:G:H2'	57:AA:1574:C:H5'	1.96	0.47
57:AA:1722:A:C2	57:AA:1740:G:H2'	2.49	0.47
57:AA:2399:G:H2'	57:AA:2400:G:O4'	2.15	0.47
1:Bb:72:GLY:HA2	1:Bb:165:VAL:HG22	1.96	0.47
2:Bc:157:ILE:O	2:Bc:159:GLY:N	2.45	0.47
4:Be:12:LEU:C	4:Be:12:LEU:CD2	2.87	0.47
7:Bh:73:ASP:C	7:Bh:75:ARG:H	2.22	0.47
7:Bh:109:ILE:HG12	7:Bh:110:ALA:N	2.30	0.47
8:Bi:29:ASN:OD1	8:Bi:64:THR:HG23	2.15	0.47
9:Bj:36:GLY:HA3	22:Ba:1123:A:C4'	2.43	0.47
12:Bm:7:VAL:O	12:Bm:9:ILE:HD12	2.14	0.47
12:Bm:58:GLU:O	12:Bm:62:ASN:HB2	2.14	0.47
21:By:22:VAL:C	21:By:24:GLU:N	2.73	0.47
22:Ba:939:G:H2'	22:Ba:940:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:43:ARG:NH1	27:BD:44:ASN:ND2	2.63	0.47
27:BD:148:GLU:O	27:BD:151:LYS:HB2	2.15	0.47
27:BD:151:LYS:HG3	57:BA:2203:U:O2'	2.14	0.47
27:BD:154:LYS:HE3	57:BA:1818:U:O4	2.14	0.47
28:BE:24:THR:HB	28:BE:186:GLY:HA2	1.97	0.47
28:BE:69:LYS:O	28:BE:71:GLY:N	2.47	0.47
28:BE:186:GLY:O	28:BE:187:ALA:HB3	2.14	0.47
28:BE:203:LYS:HA	57:BA:2733:A:C2	2.50	0.47
30:BG:137:GLU:CD	30:BG:152:LEU:HD13	2.39	0.47
32:BI:2:LYS:HA	32:BI:20:ASP:HA	1.95	0.47
32:BI:69:LYS:CA	32:BI:136:VAL:HG11	2.45	0.47
32:BI:73:GLU:CG	32:BI:74:ASN:N	2.78	0.47
34:BN:119:ARG:HG3	34:BN:119:ARG:HH11	1.79	0.47
34:BN:128:HIS:NE2	34:BN:134:ARG:HD3	2.30	0.47
34:BN:132:ALA:O	34:BN:133:GLN:HB3	2.15	0.47
35:BO:103:ALA:C	35:BO:105:GLU:N	2.72	0.47
37:BQ:134:ARG:NH2	46:BZ:122:ARG:NE	2.61	0.47
38:BR:38:VAL:CG1	38:BR:42:LYS:HD2	2.45	0.47
38:BR:103:ARG:HD3	43:BW:40:ASN:ND2	2.29	0.47
39:BS:18:ILE:HD12	57:BA:2334:G:H21	1.79	0.47
41:BU:44:ASN:HD21	42:BV:75:PHE:N	2.13	0.47
42:BV:35:LEU:HB2	42:BV:57:VAL:CG1	2.42	0.47
44:BX:52:VAL:N	44:BX:82:GLN:O	2.38	0.47
44:BX:63:LYS:O	44:BX:64:LYS:HG3	2.15	0.47
51:B4:33:VAL:CG1	51:B4:34:GLU:N	2.78	0.47
52:B5:35:GLU:O	52:B5:49:CYS:CB	2.63	0.47
53:B6:8:LYS:NZ	57:BA:2285:C:C5	2.78	0.47
55:B8:42:ARG:O	55:B8:44:LYS:N	2.41	0.47
57:BA:264:C:O2'	57:BA:265:A:H2'	2.14	0.47
57:BA:455:C:H3'	57:BA:456:C:H5"	1.97	0.47
57:BA:1802:A:H2'	57:BA:1803:A:C8	2.50	0.47
57:BA:2808:U:H5'	57:BA:2891:G:O6	2.14	0.47
58:BB:75:G:H5'	58:BB:76:G:OP2	2.15	0.47
1:Ab:15:VAL:C	1:Ab:16:HIS:CG	2.92	0.47
1:Ab:50:GLU:HB3	1:Ab:200:ILE:O	2.15	0.47
1:Ab:101:MET:CB	1:Ab:102:LEU:HD12	2.45	0.47
2:Ac:52:LEU:HD23	2:Ac:52:LEU:N	2.29	0.47
3:Ad:14:ARG:HA	3:Ad:39:PRO:CG	2.43	0.47
3:Ad:112:VAL:HG12	3:Ad:116:GLN:CD	2.39	0.47
3:Ad:168:ARG:NH2	5:Bf:18:GLN:OE1	2.48	0.47
4:Ae:43:LEU:HD21	4:Ae:132:ALA:HB1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Af:63:TYR:CD2	5:Af:63:TYR:N	2.83	0.47
6:Ag:32:ARG:HH11	6:Ag:32:ARG:HG2	1.80	0.47
8:Ai:33:PHE:C	8:Ai:35:GLU:N	2.73	0.47
8:Ai:104:ARG:HG3	8:Ai:104:ARG:NH1	2.30	0.47
9:Aj:36:GLY:CA	22:Aa:1123:A:H4'	2.45	0.47
9:Aj:67:THR:HG22	9:Aj:67:THR:O	2.15	0.47
10:Ak:46:GLY:O	22:Aa:688:G:H5'	2.14	0.47
12:Am:77:ASN:O	12:Am:80:ARG:HB3	2.15	0.47
14:Ao:65:ARG:CD	14:Ao:65:ARG:H	2.28	0.47
16:Aq:66:SER:C	16:Aq:67:LYS:O	2.55	0.47
16:Aq:75:ARG:HH11	16:Aq:75:ARG:HG3	1.78	0.47
19:At:13:LEU:C	19:At:15:ARG:N	2.67	0.47
19:At:45:GLN:O	19:At:45:GLN:HG2	2.14	0.47
19:At:86:ARG:HG3	19:At:86:ARG:HH11	1.79	0.47
19:At:102:GLY:O	19:At:104:LEU:N	2.47	0.47
21:Ay:2:ALA:N	21:Ay:35:GLU:HA	2.30	0.47
21:Ay:38:ARG:CG	21:Ay:51:TYR:OH	2.63	0.47
22:Aa:423:G:H2'	22:Aa:424:G:H5'	1.97	0.47
22:Aa:543:C:H2'	22:Aa:544:G:H8	1.79	0.47
22:Aa:1095:U:H2'	22:Aa:1096:C:C6	2.50	0.47
22:Aa:1158:C:O2	22:Aa:1158:C:C2'	2.63	0.47
22:Aa:1198:G:H2'	22:Aa:1199:U:C6	2.49	0.47
22:Aa:1442(A):G:H2'	40:AT:118:ARG:CD	2.45	0.47
22:Aa:1498:U:O2'	22:Aa:1499:A:OP2	2.28	0.47
24:Av:5:G:O2'	24:Av:6:G:H5'	2.15	0.47
26:AC:186:LEU:C	26:AC:188:ASP:H	2.22	0.47
27:AD:109:ASP:HB2	27:AD:197:GLY:CA	2.44	0.47
27:AD:148:GLU:O	27:AD:151:LYS:HB2	2.14	0.47
28:AE:2:LYS:HD3	28:AE:95:ILE:HG22	1.97	0.47
30:AG:76:SER:C	30:AG:78:SER:H	2.23	0.47
30:AG:96:ARG:O	30:AG:98:ARG:N	2.47	0.47
30:AG:128:ARG:CZ	57:AA:2315:G:H21	2.27	0.47
31:AH:44:VAL:N	31:AH:46:GLU:OE2	2.48	0.47
31:AH:119:GLU:HG2	31:AH:120:GLY:N	2.30	0.47
31:AH:150:ALA:O	31:AH:151:ILE:C	2.57	0.47
32:AI:44:LEU:O	32:AI:47:LEU:HB3	2.14	0.47
32:AI:81:VAL:HG13	32:AI:143:SER:H	1.79	0.47
34:AN:65:LYS:HG3	34:AN:69:GLN:HG3	1.96	0.47
34:AN:111:PRO:HD2	57:AA:558:G:OP1	2.14	0.47
37:AQ:14:ARG:HD2	57:AA:955:C:OP2	2.15	0.47
39:AS:97:ARG:C	39:AS:97:ARG:NE	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:AT:30:VAL:HG11	40:AT:84:GLN:CG	2.45	0.47
41:AU:92:ARG:NH1	42:AV:11:GLN:O	2.48	0.47
41:AU:92:ARG:HD3	41:AU:94:ASN:HB3	1.96	0.47
42:AV:39:LEU:C	42:AV:40:LEU:HD23	2.39	0.47
43:AW:62:HIS:O	43:AW:63:ASP:C	2.57	0.47
45:AY:31:LEU:N	45:AY:31:LEU:CD2	2.76	0.47
45:AY:81:LYS:HD2	45:AY:96:ILE:CG2	2.45	0.47
46:AZ:26:GLY:HA3	46:AZ:86:VAL:HG23	1.96	0.47
46:AZ:103:ARG:CB	46:AZ:136:PHE:HB2	2.44	0.47
47:A0:16:SER:O	47:A0:17:GLN:O	2.33	0.47
49:A2:67:LYS:O	49:A2:68:ARG:C	2.57	0.47
52:A5:35:GLU:O	52:A5:36:CYS:SG	2.73	0.47
53:A6:29:ASN:O	53:A6:30:THR:C	2.58	0.47
57:AA:74:A:H5"	57:AA:75:G:O4'	2.15	0.47
57:AA:84:A:N1	57:AA:98:G:O2'	2.42	0.47
57:AA:128:C:H2'	57:AA:129:C:O4'	2.14	0.47
57:AA:225:A:C2'	57:AA:226:G:H5'	2.44	0.47
57:AA:440:G:H2'	57:AA:441:U:C6	2.50	0.47
57:AA:654(J):A:C8	57:AA:654(L):G:H8	2.33	0.47
57:AA:729:G:H2'	57:AA:1775:U:H1'	1.97	0.47
57:AA:963:U:H2'	57:AA:964:C:H6	1.79	0.47
57:AA:1240:U:O2'	57:AA:1241:A:H5'	2.15	0.47
57:AA:1344:G:H4'	57:AA:1384:A:N7	2.29	0.47
57:AA:1839:G:H5'	57:AA:1839:G:C8	2.50	0.47
57:AA:1866:C:H2'	57:AA:1876:A:O4'	2.15	0.47
57:AA:2530:A:H2'	57:AA:2531:A:H5'	1.96	0.47
57:AA:2689:U:H5"	57:AA:2690:C:H5'	1.96	0.47
57:AA:2712(A):A:H5"	57:AA:2713:A:OP2	2.14	0.47
58:AB:65:C:O2'	58:AB:66:A:H5'	2.15	0.47
1:Bb:16:HIS:HB3	1:Bb:210:SER:HA	1.95	0.47
1:Bb:22:LYS:HE2	1:Bb:22:LYS:CA	2.45	0.47
1:Bb:161:ALA:O	1:Bb:162:ILE:HG23	2.15	0.47
2:Bc:55:VAL:O	2:Bc:57:ILE:HG13	2.14	0.47
3:Bd:128:VAL:HG12	3:Bd:129:ASN:ND2	2.30	0.47
3:Bd:208:SER:O	22:Ba:8:A:N7	2.48	0.47
5:Bf:63:TYR:CD2	5:Bf:63:TYR:N	2.82	0.47
7:Bh:4:ASP:CG	7:Bh:85:ARG:HH21	2.23	0.47
7:Bh:25:ASP:HA	7:Bh:59:LEU:O	2.15	0.47
8:Bi:79:LEU:CD2	8:Bi:103:THR:O	2.62	0.47
9:Bj:36:GLY:CA	22:Ba:1123:A:H4'	2.45	0.47
11:Bl:8:ASN:HD21	22:Ba:585:G:C4'	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:109:THR:OG1	22:Ba:947:G:O3'	2.32	0.47
13:Bn:20:ALA:O	13:Bn:21:TYR:C	2.58	0.47
13:Bn:53:LEU:HB3	13:Bn:56:VAL:HG21	1.96	0.47
14:Bo:17:ARG:CD	14:Bo:26:GLU:OE1	2.61	0.47
14:Bo:61:GLY:O	14:Bo:65:ARG:HD3	2.15	0.47
16:Bq:99:SER:C	16:Bq:100:LYS:HG3	2.38	0.47
19:Bt:23:ARG:CA	19:Bt:26:ASN:HD21	2.28	0.47
19:Bt:26:ASN:N	19:Bt:26:ASN:HD22	2.13	0.47
22:Ba:119:A:O2'	22:Ba:120:A:OP2	2.23	0.47
22:Ba:184:G:O4'	22:Ba:224:C:H4'	2.14	0.47
22:Ba:370:C:H2'	22:Ba:371:G:C8	2.48	0.47
22:Ba:489:C:H2'	22:Ba:490:G:H8	1.79	0.47
22:Ba:513:C:H2'	22:Ba:514:C:C6	2.49	0.47
22:Ba:551:U:H2'	22:Ba:552:U:H6	1.80	0.47
22:Ba:729:A:H2'	22:Ba:730:G:C8	2.49	0.47
22:Ba:796:C:O2'	22:Ba:797:C:H5'	2.15	0.47
22:Ba:956:U:C2'	22:Ba:957:U:H5'	2.44	0.47
22:Ba:1106:G:H2'	22:Ba:1107:C:C6	2.50	0.47
22:Ba:1152:A:H2'	22:Ba:1153:C:H6	1.79	0.47
22:Ba:1355:G:H2'	22:Ba:1356:G:C8	2.49	0.47
22:Ba:1422:G:OP1	35:BO:48:PRO:HA	2.15	0.47
22:Ba:1507:A:C2	22:Ba:1508:G:C4	3.03	0.47
23:Bx:14:A:N3	23:Bx:14:A:H5'	2.30	0.47
24:Bv:53:G:H2'	24:Bv:54:5MU:C6	2.49	0.47
27:BD:30:GLU:HG3	27:BD:63:ARG:NE	2.29	0.47
27:BD:176:ARG:HA	27:BD:182:LEU:HD23	1.96	0.47
27:BD:201:HIS:C	27:BD:203:ASN:H	2.23	0.47
28:BE:11:MET:HE2	28:BE:24:THR:HB	1.96	0.47
28:BE:111:ARG:HB2	28:BE:160:TYR:O	2.14	0.47
29:BF:22:ALA:HB1	29:BF:26:ALA:HB1	1.94	0.47
30:BG:62:LEU:O	30:BG:143:GLU:HG3	2.14	0.47
31:BH:38:SER:CB	31:BH:64:LEU:HD13	2.44	0.47
32:BI:68:LEU:HG	32:BI:72:LEU:CD1	2.44	0.47
32:BI:84:GLY:HA2	32:BI:144:VAL:HG13	1.96	0.47
36:BP:48:PRO:O	36:BP:51:PHE:N	2.47	0.47
38:BR:6:SER:HB2	57:BA:2873:A:H1'	1.96	0.47
38:BR:51:LEU:HG	38:BR:66:VAL:HG13	1.97	0.47
40:BT:7:ILE:O	40:BT:10:VAL:HB	2.14	0.47
40:BT:65:LYS:NZ	40:BT:66:VAL:N	2.58	0.47
41:BU:10:ARG:O	41:BU:11:ARG:C	2.58	0.47
41:BU:91:ASP:O	41:BU:92:ARG:O	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:14:LYS:O	46:BZ:15:PRO:C	2.58	0.47
46:BZ:67:LEU:CB	46:BZ:68:PRO:HD2	2.44	0.47
47:B0:36:ILE:O	47:B0:36:ILE:HG13	2.14	0.47
48:B1:3:LYS:CG	48:B1:4:VAL:H	2.22	0.47
49:B2:22:GLU:O	49:B2:23:LYS:C	2.56	0.47
49:B2:48:HIS:O	49:B2:49:LYS:C	2.57	0.47
50:B3:44:ARG:O	50:B3:48:GLU:HG2	2.14	0.47
53:B6:26:ASN:ND2	53:B6:51:GLU:OE1	2.47	0.47
57:BA:116:C:O2'	57:BA:126:A:N3	2.47	0.47
57:BA:654(J):A:C8	57:BA:654(L):G:H8	2.33	0.47
57:BA:1241:A:O2'	57:BA:1242:A:H5'	2.14	0.47
57:BA:1539:G:H2'	57:BA:1540:U:O4'	2.15	0.47
57:BA:1668:A:H4'	57:BA:1669:A:O5'	2.14	0.47
57:BA:1962:C:O2'	57:BA:1964:G:OP2	2.32	0.47
57:BA:2260:C:H2'	57:BA:2261:C:H6	1.80	0.47
57:BA:2831:G:O4'	57:BA:2883:A:C2	2.68	0.47
58:BB:3:C:N3	58:BB:118:G:N2	2.63	0.47
1:Ab:30:ARG:HH21	1:Ab:194:PRO:HG2	1.80	0.47
3:Ad:43:HIS:C	3:Ad:45:GLN:N	2.73	0.47
3:Ad:126:ILE:N	3:Ad:126:ILE:CD1	2.77	0.47
4:Ae:104:ALA:O	4:Ae:107:ARG:HB3	2.15	0.47
8:Ai:33:PHE:CE2	8:Ai:47:LEU:HD21	2.50	0.47
9:Aj:50:ILE:HG12	9:Aj:50:ILE:O	2.15	0.47
12:Am:6:GLY:HA3	12:Am:8:GLU:OE1	2.15	0.47
12:Am:29:ARG:NE	22:Aa:1329:A:H5'	2.30	0.47
13:An:22:THR:OG1	13:An:33:VAL:HG21	2.14	0.47
14:Ao:3:ILE:HA	14:Ao:7:GLU:OE2	2.14	0.47
14:Ao:54:ARG:HD2	22:Aa:728:A:C5	2.49	0.47
20:Au:6:ARG:CZ	20:Au:15:ARG:NH2	2.75	0.47
22:Aa:93:G:C6	22:Aa:96:U:C4	3.03	0.47
22:Aa:831:U:H2'	22:Aa:832:C:H6	1.79	0.47
22:Aa:999:C:H2'	22:Aa:1000:U:C6	2.50	0.47
22:Aa:1276:G:C2'	22:Aa:1277:C:H5'	2.45	0.47
22:Aa:1374:A:C4	22:Aa:1375:A:C8	3.03	0.47
27:AD:248:SER:CB	27:AD:249:PRO:HD2	2.43	0.47
28:AE:59:VAL:CG2	28:AE:62:PRO:HG2	2.45	0.47
28:AE:122:PHE:CE2	57:AA:2512:C:H4'	2.50	0.47
28:AE:132:HIS:CE1	57:AA:1658:C:OP1	2.67	0.47
29:AF:3:GLU:HA	29:AF:24:LEU:CG	2.45	0.47
29:AF:115:ALA:O	29:AF:118:ALA:N	2.48	0.47
30:AG:45:GLU:O	30:AG:51:ARG:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:105:LYS:NZ	51:A4:26:SER:HB3	2.29	0.47
30:AG:111:LEU:HB3	30:AG:117:PHE:CE1	2.49	0.47
31:AH:106:THR:HG22	31:AH:112:PRO:CB	2.44	0.47
31:AH:146:ALA:HB2	31:AH:164:TYR:OH	2.14	0.47
32:AI:94:ALA:HA	32:AI:98:ALA:CB	2.45	0.47
34:AN:55:VAL:HG13	34:AN:56:ASN:N	2.30	0.47
34:AN:119:ARG:HG3	34:AN:119:ARG:HH11	1.80	0.47
38:AR:46:GLY:HA2	57:AA:2839:G:H5'	1.95	0.47
40:AT:19:LEU:HB3	40:AT:85:LYS:HD3	1.96	0.47
42:AV:5:VAL:HG11	42:AV:57:VAL:HG11	1.97	0.47
42:AV:19:LYS:HG2	42:AV:94:LEU:CB	2.24	0.47
43:AW:26:GLY:C	43:AW:27:LYS:HG2	2.39	0.47
45:AY:44:ILE:N	45:AY:62:GLU:OE1	2.48	0.47
45:AY:97:ARG:HH11	45:AY:97:ARG:HG3	1.78	0.47
46:AZ:39:VAL:HG21	46:AZ:44:PHE:HD2	1.77	0.47
53:A6:11:LEU:HD12	53:A6:26:ASN:HB2	1.97	0.47
53:A6:45:LYS:HG2	57:AA:2371:G:C4'	2.37	0.47
57:AA:11:G:N2	57:AA:2628:C:P	2.88	0.47
57:AA:544:G:N2	57:AA:547:A:H2'	2.25	0.47
57:AA:1642:G:O2'	57:AA:1643:G:H5'	2.14	0.47
57:AA:2056:G:H2'	57:AA:2056:G:N3	2.30	0.47
57:AA:2401:U:H2'	57:AA:2402:C:H5"	1.96	0.47
57:AA:2630:G:H1'	57:AA:2894:G:C4	2.49	0.47
58:AB:28:C:H2'	58:AB:29:A:O4'	2.15	0.47
58:AB:81:G:H2'	58:AB:82:G:C5'	2.44	0.47
1:Bb:51:LEU:O	1:Bb:55:PHE:CD2	2.68	0.47
3:Bd:153:ARG:O	3:Bd:181:MET:HE1	2.15	0.47
7:Bh:1:MET:H2	22:Ba:824:C:H4'	1.80	0.47
9:Bj:57:LYS:HB2	22:Ba:972:C:H4'	1.97	0.47
9:Bj:67:THR:HG22	9:Bj:67:THR:O	2.15	0.47
15:Bp:15:PRO:O	15:Bp:16:HIS:ND1	2.48	0.47
19:Bt:100:ILE:O	19:Bt:101:GLY:C	2.57	0.47
22:Ba:618:C:N3	22:Ba:622:A:N6	2.62	0.47
22:Ba:920:U:H2'	22:Ba:921:U:C6	2.50	0.47
22:Ba:1083:U:H5	22:Ba:1084:G:C6	2.33	0.47
22:Ba:1104:G:H2'	22:Ba:1105:A:H8	1.79	0.47
22:Ba:1250:A:H2	22:Ba:1370:G:H1'	1.80	0.47
24:Bv:39:C:H2'	24:Bv:40:C:C6	2.50	0.47
28:BE:5:LEU:HD11	28:BE:49:LEU:O	2.14	0.47
30:BG:77:ILE:O	30:BG:77:ILE:CG2	2.61	0.47
33:BJ:123:GLU:O	33:BJ:124:ALA:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:17:LYS:O	36:BP:17:LYS:CG	2.49	0.47
36:BP:77:ARG:HB2	36:BP:78:PRO:HD2	1.96	0.47
43:BW:35:ILE:O	43:BW:36:LEU:C	2.57	0.47
44:BX:55:ASN:O	44:BX:79:ALA:HA	2.15	0.47
49:B2:3:LEU:HD23	49:B2:4:SER:N	2.29	0.47
49:B2:12:GLU:O	49:B2:13:ALA:C	2.57	0.47
57:BA:271(R):G:H2'	57:BA:271(S):G:H8	1.80	0.47
57:BA:557:U:H2'	57:BA:558:G:H8	1.80	0.47
57:BA:729:G:H2'	57:BA:1775:U:H1'	1.95	0.47
57:BA:890:A:H2'	57:BA:892:G:O4'	2.15	0.47
57:BA:1373:A:H2'	57:BA:1374:G:O4'	2.15	0.47
57:BA:1827:C:H2'	57:BA:1828:G:O4'	2.15	0.47
57:BA:2036:C:H5'	57:BA:2036:C:C6	2.36	0.47
57:BA:2271:G:H2'	57:BA:2272:U:C6	2.50	0.47
58:BB:87:G:C2'	58:BB:88:C:H5"	2.45	0.47
1:Ab:80:ILE:HG22	1:Ab:80:ILE:O	2.14	0.47
3:Ad:59:ARG:C	3:Ad:61:LYS:N	2.73	0.47
3:Ad:162:LEU:O	3:Ad:162:LEU:HD23	2.15	0.47
4:Ae:92:LYS:HB3	4:Ae:119:LEU:HB2	1.97	0.47
4:Ae:92:LYS:O	4:Ae:118:ILE:HD12	2.15	0.47
6:Ag:146:GLU:O	6:Ag:149:ARG:HB2	2.15	0.47
7:Ah:30:ARG:HH11	7:Ah:30:ARG:HB2	1.80	0.47
7:Ah:83:ILE:O	7:Ah:83:ILE:HG23	2.15	0.47
8:Ai:15:ALA:HB2	8:Ai:65:VAL:HG23	1.97	0.47
8:Ai:68:GLY:H	22:Aa:1250:A:C4'	2.13	0.47
12:Am:14:ARG:HB2	12:Am:16:ASP:OD2	2.15	0.47
12:Am:82:MET:O	12:Am:83:ASP:C	2.58	0.47
13:An:24:CYS:HB3	13:An:27:CYS:O	2.13	0.47
14:Ao:18:PHE:O	14:Ao:18:PHE:CD1	2.67	0.47
22:Aa:341:C:H2'	22:Aa:342:C:C6	2.50	0.47
22:Aa:358:U:O2'	22:Aa:359:U:H5'	2.15	0.47
22:Aa:636:U:H2'	22:Aa:637:G:C8	2.50	0.47
22:Aa:662:G:H2'	22:Aa:663:A:C8	2.50	0.47
22:Aa:796:C:O2'	22:Aa:797:C:H5'	2.15	0.47
23:Ax:14:A:H5'	23:Ax:14:A:N3	2.30	0.47
25:Aw:62:C:C4'	26:AC:53:ARG:HG3	2.41	0.47
27:AD:43:ARG:NH1	27:AD:44:ASN:HD21	2.13	0.47
28:AE:34:VAL:CG1	28:AE:48:GLN:HE21	2.28	0.47
28:AE:69:LYS:O	28:AE:71:GLY:N	2.48	0.47
28:AE:80:GLU:OE2	57:AA:2636:U:H4'	2.15	0.47
28:AE:203:LYS:HA	57:AA:2733:A:C2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AF:3:GLU:HB2	29:AF:20:LEU:O	2.15	0.47
29:AF:165:ARG:HB2	29:AF:165:ARG:NH1	2.29	0.47
30:AG:145:THR:HG21	30:AG:148:MET:CB	2.42	0.47
31:AH:41:MET:CE	31:AH:43:VAL:HG13	2.45	0.47
31:AH:94:TYR:OH	31:AH:160:LYS:HD3	2.15	0.47
34:AN:66:LYS:HZ3	57:AA:1140:C:P	2.38	0.47
34:AN:90:MET:HB3	34:AN:98:VAL:HG22	1.96	0.47
35:AO:71:ARG:NE	35:AO:105:GLU:OE2	2.48	0.47
40:AT:25:GLY:H	40:AT:49:VAL:CG1	2.28	0.47
40:AT:100:TYR:CD2	40:AT:103:ARG:NH2	2.81	0.47
43:AW:5:ALA:HB3	43:AW:105:VAL:H	1.78	0.47
45:AY:15:VAL:HG11	45:AY:20:TYR:O	2.14	0.47
45:AY:95:LYS:CD	45:AY:100:ALA:HB1	2.44	0.47
46:AZ:133:ILE:O	46:AZ:134:PRO:O	2.32	0.47
47:A0:32:ARG:O	47:A0:33:ALA:C	2.58	0.47
57:AA:710:G:H1	57:AA:721:C:H42	1.62	0.47
57:AA:1204:A:N1	57:AA:1241:A:C2	2.82	0.47
57:AA:1318:C:C3'	57:AA:1319:G:H5"	2.43	0.47
57:AA:1344:G:H4'	57:AA:1384:A:C5	2.50	0.47
57:AA:1484:G:C3'	57:AA:1485:G:H5"	2.43	0.47
57:AA:1763:G:H2'	57:AA:1764:G:H5'	1.97	0.47
57:AA:2134:A:H1'	57:AA:2159:G:H21	1.78	0.47
57:AA:2143:C:H2'	57:AA:2144:U:O4'	2.15	0.47
57:AA:2300:G:H1	57:AA:2316:C:H42	1.62	0.47
57:AA:2833:G:C3'	57:AA:2834:G:C5'	2.85	0.47
1:Bb:27:LYS:C	1:Bb:29:ALA:H	2.23	0.47
2:Bc:173:VAL:HG12	2:Bc:175:LEU:CD1	2.44	0.47
3:Bd:162:LEU:O	3:Bd:162:LEU:HD23	2.15	0.47
4:Be:51:VAL:CB	4:Be:52:PRO:HD3	2.34	0.47
4:Be:145:LYS:HE2	4:Be:149:GLU:CD	2.40	0.47
6:Bg:32:ARG:HH11	6:Bg:32:ARG:HG2	1.79	0.47
7:Bh:9:MET:HE1	7:Bh:35:ILE:HB	1.97	0.47
10:Bk:66:LEU:C	10:Bk:68:ALA:N	2.71	0.47
11:Bl:38:THR:HG22	11:Bl:57:LYS:HB2	1.96	0.47
12:Bm:88:ARG:O	12:Bm:92:HIS:HB2	2.15	0.47
17:Br:37:VAL:CG2	17:Br:38:GLU:H	2.11	0.47
17:Br:64:ARG:NH2	22:Ba:663:A:O3'	2.48	0.47
19:Bt:81:LYS:O	19:Bt:83:ARG:N	2.48	0.47
21:By:38:ARG:HB2	21:By:66:VAL:HG21	1.97	0.47
21:By:81:ARG:HB2	21:By:84:SER:HA	1.97	0.47
22:Ba:93:G:C6	22:Ba:96:U:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:138:G:O2'	22:Ba:139:G:H5'	2.14	0.47
22:Ba:255:G:H2'	22:Ba:256:U:C6	2.50	0.47
22:Ba:332:G:H2'	22:Ba:333:G:H8	1.80	0.47
22:Ba:518:C:H2'	22:Ba:530:G:C8	2.49	0.47
22:Ba:1264:C:H1'	22:Ba:1272:G:H22	1.80	0.47
22:Ba:1268:A:H2'	22:Ba:1269:A:C8	2.49	0.47
22:Ba:1290:G:N3	22:Ba:1290:G:H2'	2.29	0.47
25:Bw:55:U:H2'	25:Bw:57:A:OP2	2.15	0.47
25:Bw:62:C:H2'	25:Bw:63:G:C8	2.50	0.47
27:BD:11:PRO:O	27:BD:13:ARG:N	2.48	0.47
27:BD:63:ARG:NH2	57:BA:1568:G:OP2	2.47	0.47
27:BD:176:ARG:CG	27:BD:176:ARG:NH1	2.78	0.47
28:BE:70:ALA:O	28:BE:72:VAL:N	2.48	0.47
28:BE:119:ARG:O	28:BE:119:ARG:HD3	2.15	0.47
30:BG:6:ALA:O	30:BG:7:LEU:C	2.57	0.47
30:BG:57:ALA:HB1	30:BG:68:PRO:CG	2.45	0.47
34:BN:62:VAL:HG11	34:BN:67:LEU:CD2	2.43	0.47
35:BO:119:PRO:HB2	40:BT:68:TYR:CZ	2.50	0.47
36:BP:16:ARG:NH1	57:BA:661:C:H4'	2.29	0.47
36:BP:112:LEU:HD13	36:BP:112:LEU:C	2.40	0.47
38:BR:3:HIS:HB2	57:BA:1654:A:OP1	2.15	0.47
40:BT:5:ALA:HB3	57:BA:2875:C:HO2'	1.79	0.47
42:BV:47:VAL:O	42:BV:47:VAL:HG23	2.15	0.47
44:BX:23:GLU:C	44:BX:25:LYS:H	2.22	0.47
44:BX:43:VAL:O	44:BX:44:GLU:C	2.57	0.47
45:BY:81:LYS:HD2	45:BY:96:ILE:CG2	2.45	0.47
46:BZ:104:PHE:HA	46:BZ:141:VAL:HG21	1.96	0.47
50:B3:6:VAL:HB	50:B3:54:VAL:CG1	2.40	0.47
51:B4:19:GLY:O	51:B4:20:ASN:C	2.58	0.47
51:B4:56:VAL:O	51:B4:56:VAL:HG12	2.15	0.47
55:B8:31:HIS:ND1	55:B8:31:HIS:C	2.73	0.47
57:BA:74:A:H5"	57:BA:75:G:O4'	2.14	0.47
57:BA:231:C:C5	57:BA:232:G:C6	3.02	0.47
57:BA:510:C:O2'	57:BA:511:U:H5'	2.15	0.47
57:BA:530:G:C5	57:BA:2022:U:H5"	2.50	0.47
57:BA:828:U:H3'	57:BA:828:U:O2	2.15	0.47
57:BA:1164:G:O2'	57:BA:1165:U:H5'	2.14	0.47
57:BA:1432:C:H2'	57:BA:1433:U:O4'	2.15	0.47
57:BA:2807:G:H2'	57:BA:2808:U:H5"	1.97	0.47
1:Ab:51:LEU:O	1:Ab:55:PHE:CD2	2.67	0.47
3:Ad:23:GLY:H	3:Ad:26:CYS:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ae:41:VAL:O	4:Ae:66:MET:HA	2.14	0.47
5:Af:45:LEU:C	5:Af:45:LEU:HD23	2.40	0.47
6:Ag:20:ASP:C	6:Ag:22:LEU:N	2.72	0.47
6:Ag:27:ILE:HG22	6:Ag:39:ALA:HB1	1.96	0.47
8:Ai:10:ARG:CD	8:Ai:105:ASP:HB3	2.37	0.47
8:Ai:63:ILE:HG22	8:Ai:64:THR:N	2.29	0.47
12:Am:10:PRO:HG2	12:Am:18:ALA:HB1	1.97	0.47
12:Am:20:THR:O	12:Am:22:ILE:N	2.48	0.47
12:Am:86:CYS:SG	12:Am:89:GLY:N	2.83	0.47
16:Aq:66:SER:O	16:Aq:70:ARG:NH1	2.48	0.47
22:Aa:618:C:N3	22:Aa:622:A:N6	2.62	0.47
22:Aa:1296:C:H3'	22:Aa:1297:C:H6	1.80	0.47
27:AD:43:ARG:HD2	27:AD:44:ASN:OD1	2.15	0.47
27:AD:63:ARG:NH2	57:AA:1568:G:OP2	2.47	0.47
27:AD:210:GLY:C	27:AD:212:SER:N	2.71	0.47
29:AF:132:VAL:CG2	29:AF:133:ASN:N	2.77	0.47
29:AF:192:LEU:HD21	29:AF:194:MET:HE2	1.97	0.47
30:AG:17:PRO:C	30:AG:19:LEU:N	2.71	0.47
30:AG:131:TYR:HB3	30:AG:159:VAL:HG11	1.96	0.47
35:AO:32:TYR:N	35:AO:32:TYR:CD1	2.83	0.47
39:AS:28:VAL:HG21	39:AS:87:PHE:CE1	2.50	0.47
40:AT:13:ARG:HA	40:AT:13:ARG:NE	2.28	0.47
47:A0:49:LYS:H	47:A0:80:HIS:HD1	1.62	0.47
54:A7:34:ARG:HD3	54:A7:42:LEU:HA	1.97	0.47
55:A8:29:LYS:HD3	55:A8:44:LYS:CG	2.44	0.47
57:AA:142:A:H8	57:AA:1595:G:H21	1.63	0.47
57:AA:460:A:H2'	57:AA:461:C:O4'	2.15	0.47
57:AA:890:A:H2'	57:AA:892:G:O4'	2.15	0.47
57:AA:916:G:C2'	57:AA:917:A:H5"	2.45	0.47
57:AA:1899:G:H21	57:AA:1902:C:H5	1.63	0.47
57:AA:2692:C:O2'	57:AA:2693:A:H5'	2.15	0.47
57:AA:2732:G:O2'	57:AA:2733:A:H5'	2.14	0.47
58:AB:30:C:H4'	58:AB:58:A:C2	2.50	0.47
1:Bb:142:LEU:HD21	1:Bb:146:GLN:NE2	2.30	0.47
3:Bd:10:ARG:NH2	22:Ba:542:G:OP1	2.47	0.47
3:Bd:194:LEU:HB3	3:Bd:196:LEU:CD1	2.45	0.47
4:Be:41:VAL:O	4:Be:66:MET:HA	2.15	0.47
7:Bh:51:VAL:CG1	7:Bh:60:ARG:HB2	2.45	0.47
8:Bi:68:GLY:H	22:Ba:1250:A:C4'	2.12	0.47
11:Bl:7:ILE:CG2	11:Bl:8:ASN:N	2.77	0.47
15:Bp:14:ASN:N	15:Bp:15:PRO:HD3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Br:73:ALA:HB3	17:Br:79:LEU:HD12	1.95	0.47
19:Bt:10:LEU:O	19:Bt:13:LEU:CD1	2.61	0.47
19:Bt:45:GLN:HG2	19:Bt:45:GLN:O	2.14	0.47
19:Bt:99:LEU:O	19:Bt:100:ILE:C	2.58	0.47
22:Ba:149:A:O2'	22:Ba:150:C:C6	2.67	0.47
22:Ba:313:A:H2'	22:Ba:314:C:C6	2.50	0.47
22:Ba:344:A:H5"	22:Ba:345:C:H5	1.80	0.47
26:BC:43:GLU:OE2	57:BA:2124:G:H1'	2.15	0.47
27:BD:24:ILE:CD1	27:BD:25:THR:N	2.68	0.47
27:BD:185:VAL:HG12	27:BD:186:HIS:N	2.30	0.47
28:BE:122:PHE:CE2	57:BA:2512:C:H4'	2.50	0.47
28:BE:203:LYS:HD2	28:BE:203:LYS:C	2.40	0.47
29:BF:22:ALA:CB	29:BF:26:ALA:HB2	2.42	0.47
39:BS:24:LEU:HB3	39:BS:85:VAL:HB	1.97	0.47
39:BS:36:TYR:HA	39:BS:52:SER:HA	1.97	0.47
39:BS:59:LYS:CD	39:BS:61:ASN:HB2	2.45	0.47
40:BT:57:PHE:CG	40:BT:58:ASN:N	2.80	0.47
44:BX:14:SER:O	44:BX:17:ALA:HB3	2.15	0.47
45:BY:62:GLU:OE2	45:BY:63:LYS:O	2.33	0.47
46:BZ:122:ARG:HG2	46:BZ:122:ARG:NH1	2.31	0.47
52:B5:51:TYR:CZ	52:B5:52:TYR:HD2	2.32	0.47
52:B5:51:TYR:HB3	52:B5:55:ARG:HD3	1.97	0.47
55:B8:32:LEU:HB3	55:B8:36:LYS:HZ2	1.80	0.47
57:BA:1469:A:H2'	57:BA:1470:G:O4'	2.14	0.47
57:BA:1747(A):G:H2'	57:BA:1748:G:C5'	2.18	0.47
57:BA:1917:U:C2'	57:BA:1918:A:H5'	2.45	0.47
57:BA:2369:A:O2'	57:BA:2370:G:H5'	2.14	0.47
57:BA:2461:C:H2'	57:BA:2462:U:C6	2.50	0.47
57:BA:2815:C:H2'	57:BA:2816:C:C6	2.50	0.47
57:BA:2861:G:O2'	57:BA:2862:G:H5'	2.14	0.47
1:Ab:91:PRO:HA	1:Ab:151:GLY:O	2.15	0.46
3:Ad:64:LEU:HB2	3:Ad:198:VAL:HG11	1.97	0.46
3:Ad:124:GLY:HA3	3:Ad:132:ARG:HH11	1.80	0.46
3:Ad:126:ILE:CG2	3:Ad:127:THR:N	2.77	0.46
7:Ah:51:VAL:HG11	7:Ah:60:ARG:HB2	1.97	0.46
8:Ai:15:ALA:HB2	8:Ai:65:VAL:CG2	2.46	0.46
9:Aj:3:LYS:HD2	9:Aj:77:PRO:CD	2.45	0.46
13:An:48:ALA:HB2	13:An:53:LEU:HD12	1.95	0.46
15:Ap:4:ILE:CG2	15:Ap:36:ILE:HD11	2.45	0.46
21:Ay:88:SER:O	21:Ay:92:LYS:HG3	2.15	0.46
22:Aa:138:G:O2'	22:Aa:139:G:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:678:U:O2	22:Aa:777:A:H4'	2.15	0.46
22:Aa:831:U:C2	22:Aa:832:C:H5	2.33	0.46
22:Aa:1083:U:H5	22:Aa:1084:G:C6	2.34	0.46
27:AD:26:LYS:O	27:AD:27:THR:CB	2.62	0.46
28:AE:24:THR:HB	28:AE:186:GLY:HA2	1.97	0.46
29:AF:4:VAL:HA	29:AF:19:GLU:CB	2.46	0.46
29:AF:29:ASN:O	29:AF:30:PRO:C	2.58	0.46
29:AF:115:ALA:O	29:AF:118:ALA:HB3	2.14	0.46
31:AH:72:ILE:O	31:AH:75:ALA:N	2.48	0.46
38:AR:24:GLN:HE22	38:AR:36:THR:HG21	1.79	0.46
39:AS:56:LEU:O	39:AS:57:LYS:HB2	2.15	0.46
40:AT:55:ASN:H	40:AT:59:THR:CG2	2.28	0.46
41:AU:27:LEU:CD2	41:AU:31:SER:HB2	2.33	0.46
41:AU:60:LEU:HD22	41:AU:60:LEU:O	2.15	0.46
43:AW:35:ILE:O	43:AW:36:LEU:C	2.57	0.46
43:AW:96:ILE:HG12	57:AA:2012:G:O3'	2.15	0.46
45:AY:4:LYS:HD2	45:AY:32:PRO:CD	2.44	0.46
49:A2:47:ASN:OD1	57:AA:61:G:C4	2.69	0.46
57:AA:237:C:O2'	57:AA:238:C:H5'	2.15	0.46
57:AA:839:U:H2'	57:AA:840:C:H6	1.80	0.46
57:AA:1488:G:N3	57:AA:1488:G:H2'	2.29	0.46
57:AA:2000:G:O2'	57:AA:2001:A:H5'	2.15	0.46
57:AA:2031:A:C6	57:AA:2498:C:H1'	2.50	0.46
57:AA:2389:G:H5"	57:AA:2390:U:H5'	1.97	0.46
3:Bd:170:VAL:O	3:Bd:171:GLY:C	2.57	0.46
5:Bf:2:ARG:NH2	5:Bf:69:GLU:HG3	2.31	0.46
7:Bh:63:LEU:HB2	7:Bh:65:TYR:HE1	1.79	0.46
8:Bi:28:VAL:CG2	8:Bi:63:ILE:HB	2.39	0.46
10:Bk:21:ILE:HD13	10:Bk:82:VAL:HG13	1.97	0.46
12:Bm:82:MET:O	12:Bm:83:ASP:C	2.58	0.46
14:Bo:26:GLU:HG3	14:Bo:77:ARG:NH1	2.30	0.46
22:Ba:321:A:C2	22:Ba:333:G:C2	3.03	0.46
22:Ba:818:G:C3'	22:Ba:819:A:H5"	2.45	0.46
22:Ba:1170:A:H2'	22:Ba:1171:G:O4'	2.16	0.46
27:BD:201:HIS:C	27:BD:203:ASN:N	2.72	0.46
30:BG:5:VAL:HG12	30:BG:6:ALA:H	1.80	0.46
30:BG:98:ARG:CG	51:B4:1:MET:SD	3.00	0.46
30:BG:170:ARG:NH2	30:BG:174:GLU:OE1	2.49	0.46
31:BH:67:LEU:HD21	57:BA:2758:A:C5	2.50	0.46
31:BH:149:ARG:HA	31:BH:162:ILE:CG1	2.44	0.46
36:BP:9:ASN:N	36:BP:10:PRO:HD2	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:33:ARG:HG3	36:BP:34:GLY:N	2.29	0.46
36:BP:63:PRO:HB2	55:B8:12:LYS:O	2.15	0.46
40:BT:35:LYS:NZ	40:BT:41:ARG:NH2	2.63	0.46
43:BW:26:GLY:O	43:BW:27:LYS:HG2	2.14	0.46
45:BY:2:ARG:HG3	57:BA:105:C:O2'	2.15	0.46
46:BZ:76:LEU:O	46:BZ:78:LYS:N	2.47	0.46
50:B3:16:PRO:HB2	50:B3:18:ASP:OD1	2.15	0.46
52:B5:29:THR:HG21	57:BA:2815:C:H5'	1.98	0.46
53:B6:40:CYS:HB2	53:B6:46:HIS:ND1	2.30	0.46
57:BA:478:A:C6	57:BA:480:A:C6	3.03	0.46
57:BA:782:A:H4'	57:BA:783:A:O5'	2.16	0.46
57:BA:1778:U:H2'	57:BA:1784:A:N6	2.30	0.46
57:BA:1910:G:O2'	57:BA:1911:U:H5'	2.14	0.46
57:BA:1949:G:H2'	57:BA:1950:G:C8	2.50	0.46
57:BA:2332:U:O2'	57:BA:2333:A:H5'	2.16	0.46
57:BA:2692:C:O2'	57:BA:2693:A:H5'	2.15	0.46
57:BA:2735:G:N2	57:BA:2770:G:H1'	2.30	0.46
58:BB:87:G:N1	58:BB:91:C:N4	2.62	0.46
2:Ac:76:VAL:HG23	2:Ac:77:ILE:H	1.80	0.46
2:Ac:195:VAL:HG23	22:Aa:1205:U:O2'	2.15	0.46
3:Ad:3:ARG:O	3:Ad:4:TYR:C	2.59	0.46
3:Ad:56:VAL:HG12	3:Ad:202:LEU:HD13	1.96	0.46
4:Ae:20:GLN:O	4:Ae:21:ALA:O	2.34	0.46
4:Ae:39:GLY:O	4:Ae:69:VAL:N	2.45	0.46
5:Af:52:ILE:O	5:Af:53:ALA:HB3	2.15	0.46
11:Al:57:LYS:HG3	11:Al:67:THR:HG22	1.97	0.46
12:Am:73:GLU:C	12:Am:75:ALA:N	2.72	0.46
13:An:42:ILE:O	13:An:43:CYS:C	2.59	0.46
14:Ao:23:GLY:O	14:Ao:24:SER:HB3	2.15	0.46
17:Ar:31:LEU:CD2	17:Ar:31:LEU:H	2.28	0.46
21:Ay:62:LEU:HD12	21:Ay:77:SER:O	2.16	0.46
22:Aa:253:U:H2'	22:Aa:254:G:C8	2.50	0.46
22:Aa:346:G:H2'	22:Aa:347:G:O4'	2.14	0.46
22:Aa:1206:G:C6	22:Aa:1207:G:C5	3.03	0.46
22:Aa:1270:C:O2'	22:Aa:1271:G:H5'	2.16	0.46
22:Aa:1315:U:HO2'	22:Aa:1360:A:H1'	1.80	0.46
22:Aa:1376:U:H2'	22:Aa:1377:A:H8	1.78	0.46
27:AD:135:PHE:N	27:AD:135:PHE:CD2	2.81	0.46
28:AE:132:HIS:CG	28:AE:135:HIS:NE2	2.83	0.46
31:AH:170:ARG:H	31:AH:170:ARG:CD	2.23	0.46
32:AI:1:MET:CE	32:AI:23:PRO:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:101:LEU:O	32:AI:107:VAL:HB	2.15	0.46
34:AN:128:HIS:NE2	34:AN:134:ARG:HD3	2.29	0.46
36:AP:48:PRO:O	36:AP:51:PHE:N	2.48	0.46
37:AQ:18:LYS:HB2	37:AQ:98:LYS:NZ	2.30	0.46
40:AT:1:MET:O	40:AT:2:ASN:O	2.33	0.46
40:AT:3:ARG:O	40:AT:4:GLY:C	2.58	0.46
41:AU:13:LYS:HE2	41:AU:13:LYS:CA	2.45	0.46
41:AU:62:ILE:HG12	41:AU:76:TYR:CE1	2.50	0.46
41:AU:92:ARG:HG3	57:AA:996:A:O2'	2.15	0.46
44:AX:12:VAL:HG11	44:AX:27:THR:HG23	1.97	0.46
45:AY:10:GLY:O	45:AY:27:VAL:HG22	2.14	0.46
46:AZ:9:TYR:CZ	46:AZ:61:LEU:HD12	2.50	0.46
48:A1:45:ASN:HB2	57:AA:2230:G:H1'	1.97	0.46
51:A4:33:VAL:CG1	51:A4:34:GLU:N	2.78	0.46
57:AA:30:G:C5	57:AA:31:C:C4	3.03	0.46
57:AA:969:U:H2'	57:AA:970:C:C6	2.49	0.46
57:AA:1107:G:O2'	57:AA:1108:U:H5'	2.14	0.46
57:AA:1340:U:H4'	57:AA:1341:U:OP2	2.14	0.46
57:AA:2083:G:H2'	57:AA:2084:C:C6	2.50	0.46
57:AA:2114:A:O2'	57:AA:2115:G:H5'	2.16	0.46
57:AA:2291:U:H2'	57:AA:2292:C:C6	2.50	0.46
57:AA:2696:U:H2'	57:AA:2697:G:C8	2.50	0.46
58:AB:56:G:H4'	58:AB:57:A:H8	1.79	0.46
1:Bb:230:VAL:HG23	1:Bb:231:GLU:N	2.30	0.46
2:Bc:130:VAL:HG21	2:Bc:157:ILE:HG23	1.97	0.46
3:Bd:14:ARG:HA	3:Bd:39:PRO:CG	2.44	0.46
3:Bd:126:ILE:N	3:Bd:126:ILE:CD1	2.77	0.46
4:Be:64:ARG:HG3	4:Be:64:ARG:NH1	2.30	0.46
4:Be:69:VAL:HG11	4:Be:113:ALA:HB1	1.97	0.46
6:Bg:146:GLU:O	6:Bg:149:ARG:HB2	2.15	0.46
8:Bi:5:TYR:CD2	8:Bi:18:PHE:HE2	2.34	0.46
12:Bm:19:LEU:HA	12:Bm:22:ILE:HD13	1.97	0.46
16:Bq:26:GLN:O	16:Bq:27:PHE:HB3	2.14	0.46
17:Br:36:ASN:CB	17:Br:39:VAL:HB	2.42	0.46
19:Bt:74:LYS:C	19:Bt:76:ALA:H	2.24	0.46
21:By:16:ARG:O	21:By:18:LEU:N	2.38	0.46
22:Ba:543:C:H2'	22:Ba:544:G:H8	1.80	0.46
22:Ba:638:G:O2'	22:Ba:639:G:H5'	2.15	0.46
22:Ba:784:C:H2'	22:Ba:785:G:C8	2.50	0.46
22:Ba:807:A:H2'	22:Ba:808:C:C6	2.50	0.46
22:Ba:831:U:H2'	22:Ba:832:C:H6	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1495:U:O2'	57:BA:1919:A:N1	2.46	0.46
27:BD:35:LYS:HD2	27:BD:36:PRO:CA	2.45	0.46
27:BD:114:GLY:O	27:BD:115:GLN:C	2.58	0.46
28:BE:24:THR:HG21	28:BE:188:VAL:CG1	2.46	0.46
28:BE:34:VAL:O	28:BE:34:VAL:CG2	2.62	0.46
28:BE:102:VAL:HA	28:BE:201:THR:H	1.79	0.46
28:BE:116:VAL:HG21	28:BE:122:PHE:CE2	2.50	0.46
28:BE:134:ILE:HG21	57:BA:2579:C:C4'	2.37	0.46
31:BH:98:LEU:HD12	31:BH:102:ALA:O	2.15	0.46
32:BI:28:ASN:CA	32:BI:32:PRO:HG2	2.44	0.46
32:BI:57:ARG:HG2	32:BI:57:ARG:O	2.14	0.46
35:BO:107:ARG:NH1	40:BT:35:LYS:HB2	2.30	0.46
36:BP:32:THR:O	36:BP:33:ARG:CB	2.63	0.46
38:BR:33:ARG:HD2	38:BR:33:ARG:N	2.29	0.46
39:BS:16:ASN:C	39:BS:18:ILE:H	2.22	0.46
41:BU:90:VAL:CG2	42:BV:39:LEU:HG	2.43	0.46
42:BV:82:ARG:HG2	42:BV:82:ARG:NH1	2.30	0.46
44:BX:71:GLY:HA3	57:BA:65:C:H5'	1.97	0.46
45:BY:28:LYS:C	45:BY:38:ILE:HG22	2.40	0.46
46:BZ:128:VAL:CG2	46:BZ:132:ASN:HB2	2.46	0.46
48:B1:17:SER:HB3	48:B1:38:SER:HB3	1.98	0.46
48:B1:45:ASN:ND2	48:B1:47:GLN:HE21	2.13	0.46
48:B1:67:ILE:N	48:B1:68:PRO:CD	2.78	0.46
48:B1:83:GLU:O	48:B1:84:GLY:O	2.34	0.46
55:B8:62:LEU:N	55:B8:63:PRO:CD	2.79	0.46
57:BA:654(A):G:O2'	57:BA:654(B):C:H5'	2.16	0.46
57:BA:696:G:C2	57:BA:767:U:O2	2.68	0.46
57:BA:795:C:H2'	57:BA:796:C:H6	1.79	0.46
57:BA:1331:A:O2'	57:BA:1332:G:C8	2.68	0.46
57:BA:1486:A:N6	57:BA:1504:C:H42	2.13	0.46
57:BA:1509(A):A:H2'	57:BA:1509(B):A:C8	2.50	0.46
57:BA:1719:G:C6	57:BA:1720:U:C4	3.03	0.46
57:BA:2011:U:C2'	57:BA:2012:G:H5'	2.45	0.46
57:BA:2532:G:O2'	57:BA:2657:A:N6	2.46	0.46
1:Ab:19:HIS:NE2	1:Ab:206:ASP:CG	2.73	0.46
1:Ab:170:GLU:C	1:Ab:172:ILE:N	2.73	0.46
1:Ab:178:ARG:HD2	1:Ab:178:ARG:HA	1.64	0.46
2:Ac:4:LYS:NZ	22:Aa:1192:C:OP2	2.44	0.46
2:Ac:148:GLY:HA3	2:Ac:172:ARG:O	2.15	0.46
2:Ac:157:ILE:C	2:Ac:159:GLY:N	2.73	0.46
3:Ad:103:ASN:OD1	3:Ad:114:ARG:NE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ae:145:LYS:HE2	4:Ae:149:GLU:CD	2.41	0.46
7:Ah:122:ARG:HB2	7:Ah:122:ARG:CZ	2.46	0.46
22:Aa:164:U:H2'	22:Aa:165:C:H6	1.80	0.46
22:Aa:248:C:O2'	22:Aa:249:U:H5'	2.15	0.46
22:Aa:393:A:C2	22:Aa:394:G:C8	3.03	0.46
22:Aa:706:A:C5	22:Aa:707:C:H5	2.33	0.46
22:Aa:706:A:N7	22:Aa:707:C:H5	2.13	0.46
22:Aa:818:G:H3'	22:Aa:819:A:C5'	2.45	0.46
22:Aa:989:C:O2'	22:Aa:990:C:H5'	2.14	0.46
22:Aa:1004:A:H5"	22:Aa:1025:U:H3	1.81	0.46
22:Aa:1217:C:H2'	22:Aa:1218:C:C6	2.50	0.46
22:Aa:1298:C:H4'	22:Aa:1299:A:C4	2.50	0.46
22:Aa:1511:G:H2'	22:Aa:1512:U:O4'	2.16	0.46
26:AC:213:VAL:HG12	26:AC:225:ILE:CD1	2.46	0.46
27:AD:96:HIS:HA	27:AD:102:LYS:HB3	1.98	0.46
27:AD:263:ARG:HB2	27:AD:263:ARG:HH11	1.80	0.46
29:AF:163:VAL:O	29:AF:166:ALA:HB3	2.16	0.46
29:AF:184:TYR:O	29:AF:188:ARG:HG2	2.16	0.46
30:AG:31:VAL:HG22	30:AG:32:PRO:HD2	1.97	0.46
30:AG:40:ASN:O	30:AG:155:MET:HB2	2.15	0.46
30:AG:79:ASN:CG	57:AA:2308:G:N2	2.73	0.46
30:AG:122:PRO:HD3	30:AG:181:ARG:O	2.15	0.46
32:AI:77:LEU:O	32:AI:141:LYS:HG2	2.15	0.46
36:AP:19:VAL:O	36:AP:19:VAL:HG23	2.15	0.46
38:AR:30:THR:HA	38:AR:78:LYS:NZ	2.31	0.46
38:AR:75:LEU:HD13	38:AR:75:LEU:O	2.14	0.46
41:AU:90:VAL:HG21	42:AV:47:VAL:CG2	2.42	0.46
43:AW:56:ALA:O	43:AW:60:ASN:HB2	2.16	0.46
45:AY:29:GLU:OE1	45:AY:29:GLU:N	2.43	0.46
48:A1:50:ARG:CB	48:A1:59:THR:HG22	2.45	0.46
49:A2:18:PRO:HG2	49:A2:19:VAL:H	1.80	0.46
57:AA:1677:A:H2'	57:AA:1678:G:C8	2.49	0.46
57:AA:1790:C:H2'	57:AA:1791:A:C5	2.50	0.46
57:AA:2197:U:O2'	57:AA:2198:A:H2'	2.14	0.46
57:AA:2302:G:OP1	57:AA:2302:G:H4'	2.15	0.46
57:AA:2735:G:H2'	57:AA:2736:G:C8	2.51	0.46
57:AA:2808:U:H5'	57:AA:2891:G:O6	2.14	0.46
1:Bb:91:PRO:HA	1:Bb:151:GLY:O	2.15	0.46
3:Bd:112:VAL:HG12	3:Bd:116:GLN:CD	2.41	0.46
5:Bf:17:SER:O	5:Bf:18:GLN:C	2.57	0.46
6:Bg:69:VAL:O	6:Bg:71:PRO:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bg:140:ASP:O	6:Bg:144:MET:HG2	2.15	0.46
8:Bi:108:VAL:O	8:Bi:110:GLU:N	2.49	0.46
9:Bj:57:LYS:HB2	22:Ba:972:C:O2'	2.15	0.46
11:Bl:41:ARG:HG2	11:Bl:42:THR:N	2.27	0.46
11:Bl:62:SER:C	11:Bl:64:TYR:H	2.24	0.46
12:Bm:3:ARG:HB3	30:BG:113:ARG:NH1	2.30	0.46
12:Bm:83:ASP:CG	12:Bm:84:ILE:N	2.69	0.46
13:Bn:42:ILE:HG21	22:Ba:1202:G:N1	2.30	0.46
15:Bp:28:ARG:C	15:Bp:30:GLY:H	2.22	0.46
19:Bt:89:ARG:NH2	22:Ba:188:C:O4'	2.48	0.46
22:Ba:9:G:C2	22:Ba:26:A:N1	2.83	0.46
22:Ba:882:C:O2'	22:Ba:883:C:H5'	2.15	0.46
22:Ba:1001(A):G:O2'	22:Ba:1002:G:H5'	2.15	0.46
22:Ba:1158:C:O2	22:Ba:1158:C:C2'	2.62	0.46
22:Ba:1198:G:H2'	22:Ba:1199:U:C6	2.50	0.46
22:Ba:1238:A:C8	22:Ba:1303:C:H1'	2.48	0.46
24:Bv:28:C:O2	24:Bv:43:A:C2	2.68	0.46
25:Bw:4:G:C6	25:Bw:70:G:N1	2.83	0.46
26:BC:37:LYS:HG3	57:BA:2128:C:OP1	2.14	0.46
26:BC:215:VAL:CG2	26:BC:225:ILE:HD11	2.36	0.46
29:BF:63:LYS:NZ	29:BF:75:HIS:O	2.36	0.46
29:BF:132:VAL:CG2	29:BF:133:ASN:N	2.76	0.46
30:BG:8:LYS:HE3	30:BG:12:TYR:OH	2.15	0.46
31:BH:94:TYR:N	31:BH:94:TYR:HD1	2.13	0.46
32:BI:10:GLU:O	32:BI:12:LEU:HD23	2.15	0.46
32:BI:123:LEU:HD23	32:BI:142:VAL:HG12	1.96	0.46
34:BN:55:VAL:O	34:BN:56:ASN:C	2.59	0.46
35:BO:69:ILE:HD12	35:BO:69:ILE:N	2.30	0.46
40:BT:30:VAL:HG11	40:BT:84:GLN:NE2	2.30	0.46
42:BV:49:THR:HB	42:BV:50:PRO:HD2	1.95	0.46
43:BW:73:ALA:O	43:BW:106:ILE:HG12	2.16	0.46
43:BW:79:GLY:C	43:BW:100:THR:CG2	2.88	0.46
46:BZ:19:ARG:NH1	46:BZ:19:ARG:CG	2.79	0.46
55:B8:51:ALA:C	55:B8:53:PRO:CD	2.85	0.46
57:BA:108:U:H2'	57:BA:109:G:H8	1.80	0.46
57:BA:156:U:O4'	57:BA:158:U:O4	2.34	0.46
57:BA:291:C:H2'	57:BA:292:C:C6	2.50	0.46
57:BA:691:C:O2'	57:BA:692:C:H5'	2.13	0.46
57:BA:807:U:O2'	57:BA:808:G:H5'	2.15	0.46
57:BA:2056:G:H2'	57:BA:2056:G:N3	2.31	0.46
57:BA:2791:C:O2	57:BA:2791:C:H2'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BB:65:C:O2'	58:BB:66:A:H5'	2.15	0.46
1:Ab:178:ARG:HH22	7:Ah:68:ARG:HH22	1.63	0.46
1:Ab:219:VAL:O	1:Ab:223:ILE:HG13	2.15	0.46
2:Ac:140:ARG:HB2	2:Ac:140:ARG:CZ	2.45	0.46
2:Ac:154:SER:O	2:Ac:165:THR:HA	2.16	0.46
3:Ad:107:ARG:HH11	3:Ad:107:ARG:HG2	1.80	0.46
3:Ad:155:LEU:HB2	3:Ad:158:ILE:HB	1.97	0.46
8:Ai:67:GLY:HA2	22:Aa:1250:A:H5'	1.96	0.46
8:Ai:74:ILE:HG22	8:Ai:74:ILE:O	2.15	0.46
8:Ai:85:LEU:HD13	8:Ai:92:TYR:CD2	2.51	0.46
9:Aj:51:ARG:HB3	22:Aa:1060:C:H4'	1.96	0.46
9:Aj:80:LYS:HD2	22:Ba:1162:C:O3'	2.15	0.46
12:Am:105:THR:O	12:Am:106:ASN:O	2.33	0.46
14:Ao:6:GLU:O	14:Ao:7:GLU:C	2.59	0.46
17:Ar:36:ASN:CB	17:Ar:39:VAL:HB	2.41	0.46
22:Aa:135:C:H2'	22:Aa:136:C:H5'	1.96	0.46
22:Aa:255:G:H2'	22:Aa:256:U:C6	2.51	0.46
22:Aa:402:G:O2'	22:Aa:403:C:H5'	2.15	0.46
22:Aa:600:C:O2'	22:Aa:601:C:H5'	2.14	0.46
22:Aa:1040:U:H2'	22:Aa:1041:A:H8	1.80	0.46
22:Aa:1300:G:O2'	22:Aa:1301:U:P	2.73	0.46
27:AD:18:VAL:HG22	27:AD:211:ARG:HH21	1.79	0.46
27:AD:271:ILE:O	27:AD:272:ALA:HB2	2.16	0.46
30:AG:76:SER:CB	30:AG:83:ARG:HB3	2.45	0.46
31:AH:16:SER:O	31:AH:26:VAL:HA	2.15	0.46
31:AH:33:LEU:HD21	31:AH:136:ILE:HG22	1.98	0.46
31:AH:136:ILE:N	31:AH:136:ILE:CD1	2.77	0.46
31:AH:149:ARG:HA	31:AH:162:ILE:CG1	2.43	0.46
34:AN:55:VAL:HG22	34:AN:126:PRO:HA	1.97	0.46
36:AP:114:ILE:HG23	36:AP:130:PHE:CD1	2.51	0.46
38:AR:98:LEU:H	38:AR:113:LEU:HD23	1.80	0.46
39:AS:26:LEU:HB2	39:AS:87:PHE:HA	1.97	0.46
41:AU:8:VAL:HG22	41:AU:12:ARG:HG2	1.98	0.46
41:AU:16:LYS:O	41:AU:16:LYS:HG2	2.14	0.46
45:AY:31:LEU:CB	45:AY:32:PRO:CA	2.93	0.46
46:AZ:163:LEU:CD1	46:AZ:167:PRO:HB3	2.46	0.46
46:AZ:176:PRO:CB	46:AZ:177:PRO:HD2	2.43	0.46
49:A2:50:ILE:C	49:A2:52:ASP:N	2.71	0.46
52:A5:49:CYS:O	52:A5:50:GLY:C	2.59	0.46
57:AA:185:U:H4'	57:AA:218:A:H4'	1.97	0.46
57:AA:264:C:O2'	57:AA:265:A:H2'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:455:C:H3'	57:AA:456:C:H5"	1.97	0.46
57:AA:523:C:H2'	57:AA:524:U:H5'	1.96	0.46
57:AA:706:A:H2'	57:AA:707:G:O4'	2.16	0.46
57:AA:1357:U:H2'	57:AA:1358:G:O4'	2.15	0.46
57:AA:1996:C:H4'	57:AA:1997:G:OP1	2.15	0.46
57:AA:2014:A:H2'	57:AA:2015:A:C8	2.51	0.46
57:AA:2062:A:O2'	57:AA:2063:C:H5'	2.14	0.46
57:AA:2179:C:O2	57:AA:2181:G:O6	2.33	0.46
57:AA:2600:A:C6	57:AA:2601:C:N4	2.84	0.46
57:AA:2656:U:H2'	57:AA:2657:A:H5"	1.97	0.46
2:Bc:82:GLU:O	2:Bc:86:VAL:HG22	2.16	0.46
5:Bf:17:SER:O	5:Bf:21:LEU:HD23	2.16	0.46
5:Bf:69:GLU:N	5:Bf:69:GLU:CD	2.72	0.46
8:Bi:10:ARG:CD	8:Bi:105:ASP:HB3	2.39	0.46
12:Bm:70:LEU:O	12:Bm:73:GLU:N	2.49	0.46
12:Bm:107:ALA:C	12:Bm:109:THR:N	2.73	0.46
13:Bn:22:THR:OG1	13:Bn:33:VAL:HG21	2.16	0.46
13:Bn:25:VAL:HB	13:Bn:39:LEU:HD21	1.95	0.46
15:Bp:50:LYS:HD3	15:Bp:50:LYS:C	2.40	0.46
21:By:5:LEU:HD23	21:By:6:ASP:H	1.81	0.46
21:By:61:ARG:O	21:By:78:VAL:HG23	2.16	0.46
22:Ba:323:U:H2'	22:Ba:324:G:O4'	2.15	0.46
22:Ba:520:A:C2	22:Ba:536:C:H1'	2.51	0.46
22:Ba:577:G:O2'	22:Ba:578:C:H5'	2.16	0.46
22:Ba:696:A:H1'	22:Ba:786:G:O2'	2.15	0.46
22:Ba:999:C:H2'	22:Ba:1000:U:C6	2.50	0.46
22:Ba:1427:U:H2'	22:Ba:1428:A:C8	2.51	0.46
23:Bx:13:A:H2'	23:Bx:14:A:H5"	1.98	0.46
24:Bv:75:C:OP1	57:BA:2602:A:O5'	2.32	0.46
29:BF:160:ASN:OD1	29:BF:163:VAL:HG23	2.16	0.46
30:BG:153:ARG:O	30:BG:154:GLY:O	2.33	0.46
31:BH:150:ALA:O	31:BH:151:ILE:C	2.57	0.46
33:BJ:89:ALA:O	33:BJ:90:ALA:HB2	2.16	0.46
34:BN:131:GLN:OE1	34:BN:131:GLN:HA	2.15	0.46
35:BO:107:ARG:NH1	40:BT:35:LYS:HD2	2.30	0.46
36:BP:123:LEU:HD12	36:BP:123:LEU:O	2.16	0.46
39:BS:98:VAL:HG12	39:BS:100:ALA:H	1.80	0.46
43:BW:5:ALA:HB3	43:BW:105:VAL:H	1.80	0.46
43:BW:61:ASN:N	43:BW:61:ASN:ND2	2.61	0.46
45:BY:39:VAL:CG1	45:BY:40:GLU:H	2.15	0.46
46:BZ:29:TYR:HB2	46:BZ:33:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:44:PRO:HA	57:BA:396:G:O3'	2.15	0.46
49:B2:69:ARG:HH11	49:B2:69:ARG:HG2	1.80	0.46
53:B6:34:LEU:HD11	53:B6:50:ARG:HH21	1.80	0.46
53:B6:43:CYS:O	53:B6:44:ARG:NH1	2.49	0.46
57:BA:201:C:C2'	57:BA:202:U:H5'	2.45	0.46
57:BA:246:C:H2'	57:BA:247:G:H5'	1.96	0.46
57:BA:322:A:H5'	57:BA:340:A:H1'	1.98	0.46
57:BA:649:G:H2'	57:BA:650:C:C6	2.50	0.46
57:BA:1244:G:C2'	57:BA:1245:G:H5'	2.46	0.46
57:BA:1293:C:H2'	57:BA:1294:U:H6	1.80	0.46
57:BA:2143:C:H2'	57:BA:2144:U:O4'	2.15	0.46
57:BA:2425:A:H5"	57:BA:2427:C:O4'	2.16	0.46
57:BA:2769:C:H2'	57:BA:2770:G:O4'	2.15	0.46
1:Ab:91:PRO:HG2	1:Ab:155:LEU:HD23	1.98	0.46
1:Ab:195:ASP:O	7:Ah:68:ARG:NH2	2.43	0.46
4:Ae:6:PHE:CZ	4:Ae:66:MET:HE1	2.50	0.46
5:Af:28:ARG:O	5:Af:29:ALA:C	2.58	0.46
7:Ah:1:MET:N	22:Aa:824:C:H4'	2.31	0.46
22:Aa:429:U:H4'	22:Aa:430:A:O5'	2.15	0.46
22:Aa:452:A:O2'	22:Aa:453:A:C8	2.66	0.46
22:Aa:518:C:H2'	22:Aa:530:G:C8	2.50	0.46
22:Aa:956:U:C2'	22:Aa:957:U:H5'	2.45	0.46
22:Aa:1355:G:H2'	22:Aa:1356:G:C8	2.50	0.46
22:Aa:1442:G:C5	40:AT:118:ARG:NH2	2.84	0.46
22:Aa:1442(B):A:N7	40:AT:118:ARG:HG2	2.30	0.46
25:Aw:26:G:H1	25:Aw:45:G:N2	2.13	0.46
26:AC:48:LEU:HA	26:AC:209:PHE:O	2.16	0.46
28:AE:2:LYS:NZ	28:AE:100:GLU:OE2	2.41	0.46
31:AH:67:LEU:HD21	57:AA:2758:A:C5	2.51	0.46
32:AI:102:SER:HA	32:AI:107:VAL:O	2.15	0.46
37:AQ:110:THR:HG23	37:AQ:113:GLN:CB	2.44	0.46
38:AR:80:PHE:O	38:AR:85:PRO:HD3	2.14	0.46
39:AS:63:THR:HG23	58:AB:50:G:OP1	2.16	0.46
39:AS:89:ARG:NH1	39:AS:92:TYR:HA	2.29	0.46
43:AW:61:ASN:N	43:AW:61:ASN:HD22	2.12	0.46
45:AY:3:VAL:O	45:AY:4:LYS:C	2.58	0.46
45:AY:96:ILE:HG21	45:AY:99:CYS:HB3	1.97	0.46
50:A3:6:VAL:HB	50:A3:54:VAL:CG1	2.38	0.46
55:A8:31:HIS:C	55:A8:31:HIS:ND1	2.74	0.46
57:AA:27:G:N2	57:AA:512:G:O2'	2.49	0.46
57:AA:55:G:O2'	57:AA:127:A:N1	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:869:G:H1	57:AA:908:C:H42	1.64	0.46
57:AA:880:G:H1	57:AA:897:C:N4	2.06	0.46
57:AA:1662:C:O2'	57:AA:1663:C:H5'	2.16	0.46
57:AA:2248:C:H2'	57:AA:2249:U:H5'	1.97	0.46
57:AA:2852:G:O2'	57:AA:2853:C:H5'	2.15	0.46
1:Bb:208:ILE:HA	1:Bb:211:ILE:CD1	2.40	0.46
2:Bc:165:THR:O	2:Bc:165:THR:HG23	2.16	0.46
3:Bd:103:ASN:OD1	3:Bd:114:ARG:NE	2.45	0.46
5:Bf:45:LEU:HD23	5:Bf:45:LEU:C	2.41	0.46
10:Bk:124:LYS:NZ	10:Bk:124:LYS:CB	2.79	0.46
11:Bl:34:ARG:O	11:Bl:61:THR:HG23	2.15	0.46
14:Bo:65:ARG:O	14:Bo:66:LEU:C	2.57	0.46
19:Bt:13:LEU:C	19:Bt:15:ARG:N	2.67	0.46
19:Bt:102:GLY:O	19:Bt:104:LEU:N	2.48	0.46
22:Ba:707:C:H2'	22:Ba:708:C:C6	2.51	0.46
22:Ba:1105:A:H2'	22:Ba:1106:G:C8	2.48	0.46
22:Ba:1285:A:H1'	22:Ba:1286:A:OP2	2.15	0.46
22:Ba:1315:U:HO2'	22:Ba:1360:A:H1'	1.79	0.46
26:BC:7:ARG:NH2	26:BC:219:MET:HB3	2.29	0.46
27:BD:124:PRO:O	27:BD:126:GLN:N	2.48	0.46
27:BD:158:ALA:O	27:BD:159:ALA:C	2.58	0.46
29:BF:53:THR:H	29:BF:56:GLU:HG3	1.79	0.46
30:BG:27:ASN:C	30:BG:29:TRP:N	2.71	0.46
31:BH:41:MET:SD	31:BH:53:GLU:O	2.74	0.46
31:BH:88:LEU:N	31:BH:88:LEU:HD13	2.31	0.46
32:BI:68:LEU:HD21	32:BI:72:LEU:HD11	1.97	0.46
32:BI:76:THR:HB	32:BI:139:GLN:HE22	1.81	0.46
32:BI:87:LYS:CE	32:BI:121:LYS:HG3	2.45	0.46
32:BI:100:ALA:O	32:BI:101:LEU:C	2.58	0.46
35:BO:71:ARG:NE	35:BO:105:GLU:OE2	2.49	0.46
38:BR:13:HIS:CE1	38:BR:15:SER:HB3	2.51	0.46
39:BS:26:LEU:HB2	39:BS:87:PHE:HA	1.98	0.46
39:BS:30:ARG:HD2	39:BS:31:SER:H	1.80	0.46
39:BS:68:GLN:C	39:BS:70:GLY:N	2.74	0.46
40:BT:1:MET:O	40:BT:2:ASN:O	2.33	0.46
40:BT:28:VAL:O	40:BT:28:VAL:HG12	2.16	0.46
40:BT:29:ARG:HB3	40:BT:85:LYS:HA	1.97	0.46
41:BU:91:ASP:O	41:BU:92:ARG:C	2.59	0.46
42:BV:8:GLY:O	57:BA:1161:C:H1'	2.15	0.46
45:BY:89:PHE:C	45:BY:90:LEU:HD23	2.41	0.46
47:B0:72:ARG:O	47:B0:73:GLY:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:270:A:C2'	57:BA:271:A:H5'	2.46	0.46
57:BA:558:G:O2'	57:BA:559:G:H5'	2.16	0.46
57:BA:826:U:H2'	57:BA:828:U:O4'	2.15	0.46
57:BA:986:C:O2'	57:BA:987:G:H5'	2.16	0.46
57:BA:1313:U:H2'	57:BA:1610:A:N1	2.30	0.46
57:BA:1517:G:C5	57:BA:1518:U:C5	3.03	0.46
57:BA:1996:C:H4'	57:BA:1997:G:OP1	2.15	0.46
57:BA:2033:A:H4'	57:BA:2034:U:OP1	2.14	0.46
57:BA:2041:U:O2'	57:BA:2042:A:H5'	2.15	0.46
57:BA:2617:C:O2'	57:BA:2618:G:H5'	2.16	0.46
2:Ac:157:ILE:O	2:Ac:159:GLY:N	2.44	0.46
3:Ad:205:GLU:OE1	4:Ae:100:VAL:HG22	2.16	0.46
5:Af:75:LEU:HD11	5:Af:79:LEU:HD21	1.96	0.46
7:Ah:86:ILE:HG22	7:Ah:87:SER:N	2.30	0.46
8:Ai:5:TYR:CD2	8:Ai:18:PHE:HE2	2.33	0.46
12:Am:91:ARG:NH1	22:Aa:1226:C:OP2	2.46	0.46
15:Ap:14:ASN:N	15:Ap:15:PRO:HD3	2.30	0.46
17:Ar:49:LYS:HB3	22:Aa:719:C:O2'	2.16	0.46
19:At:33:ILE:O	19:At:34:LYS:C	2.59	0.46
21:Ay:38:ARG:CD	21:Ay:51:TYR:OH	2.62	0.46
21:Ay:94:ILE:O	21:Ay:94:ILE:HG12	2.14	0.46
22:Aa:795:C:H6	22:Aa:795:C:O5'	1.98	0.46
22:Aa:1234:C:O2'	22:Aa:1235:U:H5'	2.14	0.46
22:Aa:1438:G:H2'	22:Aa:1439:C:H6	1.80	0.46
25:Aw:4:G:O2'	25:Aw:5:G:H8	1.98	0.46
27:AD:158:ALA:O	27:AD:159:ALA:C	2.58	0.46
29:AF:160:ASN:HD22	29:AF:162:LEU:H	1.63	0.46
30:AG:18:GLU:HG2	30:AG:175:LEU:HD22	1.97	0.46
31:AH:144:VAL:HA	31:AH:147:ASN:HB2	1.97	0.46
33:AJ:60:ARG:H	33:AJ:63:LEU:CB	2.28	0.46
38:AR:13:HIS:O	38:AR:14:SER:C	2.58	0.46
39:AS:35:ILE:O	39:AS:35:ILE:HG23	2.16	0.46
40:AT:19:LEU:HD22	40:AT:85:LYS:CD	2.45	0.46
46:AZ:111:VAL:C	46:AZ:113:ALA:N	2.72	0.46
47:A0:49:LYS:HB2	47:A0:80:HIS:HB3	1.97	0.46
49:A2:64:LEU:O	49:A2:64:LEU:HD23	2.16	0.46
49:A2:71:ASN:O	49:A2:72:ALA:OXT	2.34	0.46
52:A5:51:TYR:CZ	52:A5:52:TYR:HD2	2.32	0.46
57:AA:271(D):G:H1	57:AA:271(T):C:N4	2.05	0.46
57:AA:322:A:H5'	57:AA:340:A:H1'	1.97	0.46
57:AA:510:C:O2'	57:AA:511:U:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:870:A:H2'	57:AA:871:U:O4'	2.15	0.46
57:AA:2236:C:C2'	57:AA:2237:G:H5'	2.46	0.46
57:AA:2360:A:O2'	57:AA:2361:A:O5'	2.33	0.46
57:AA:2464:C:O2'	57:AA:2465:C:P	2.72	0.46
57:AA:2617:C:O2'	57:AA:2618:G:H5'	2.15	0.46
1:Bb:112:VAL:HA	1:Bb:115:LEU:HB3	1.97	0.46
2:Bc:2:GLY:HA2	22:Ba:1060:C:C5	2.51	0.46
2:Bc:5:ILE:HG21	9:Bj:51:ARG:NH1	2.28	0.46
2:Bc:181:ASN:HD22	2:Bc:205:GLY:N	2.08	0.46
3:Bd:64:LEU:HB2	3:Bd:198:VAL:HG11	1.97	0.46
5:Bf:5:GLU:HG3	5:Bf:93:SER:OG	2.15	0.46
6:Bg:59:LEU:O	6:Bg:59:LEU:HG	2.15	0.46
6:Bg:135:VAL:O	6:Bg:138:LYS:HB3	2.16	0.46
6:Bg:143:ARG:O	6:Bg:145:ALA:O	2.34	0.46
7:Bh:120:THR:O	7:Bh:121:ASP:C	2.59	0.46
7:Bh:122:ARG:HB2	7:Bh:122:ARG:CZ	2.46	0.46
8:Bi:15:ALA:CB	8:Bi:65:VAL:HB	2.46	0.46
10:Bk:126:ARG:HH11	10:Bk:126:ARG:CB	2.27	0.46
11:Bl:85:ILE:HD12	11:Bl:85:ILE:HA	1.70	0.46
12:Bm:98:VAL:C	12:Bm:100:GLY:H	2.24	0.46
18:Bs:77:THR:HG21	22:Ba:1221:G:H4'	1.97	0.46
19:Bt:27:LYS:HD3	19:Bt:27:LYS:C	2.40	0.46
19:Bt:50:GLU:HG3	19:Bt:100:ILE:HB	1.98	0.46
22:Ba:818:G:H3'	22:Ba:819:A:C5'	2.46	0.46
22:Ba:1248:A:C2'	22:Ba:1249:C:H5'	2.46	0.46
27:BD:67:PHE:CE1	27:BD:157:ARG:CZ	2.98	0.46
29:BF:95:ARG:HH12	57:BA:589:C:H5"	1.80	0.46
30:BG:43:LEU:N	30:BG:43:LEU:HD22	2.31	0.46
30:BG:57:ALA:O	30:BG:60:LEU:HB3	2.15	0.46
30:BG:86:MET:SD	30:BG:87:PRO:N	2.89	0.46
31:BH:43:VAL:HG12	31:BH:51:ARG:O	2.15	0.46
32:BI:129:THR:HG22	32:BI:130:TYR:N	2.29	0.46
34:BN:79:PRO:C	34:BN:81:GLY:H	2.23	0.46
34:BN:93:THR:O	34:BN:94:HIS:CB	2.63	0.46
36:BP:16:ARG:O	36:BP:18:ARG:N	2.49	0.46
39:BS:56:LEU:O	39:BS:57:LYS:HB2	2.15	0.46
40:BT:3:ARG:C	40:BT:5:ALA:H	2.21	0.46
40:BT:19:LEU:HB3	40:BT:85:LYS:HD3	1.98	0.46
40:BT:64:ARG:HH11	40:BT:64:ARG:HG2	1.81	0.46
42:BV:39:LEU:HB3	42:BV:47:VAL:CG1	2.46	0.46
43:BW:18:ARG:O	43:BW:19:LEU:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:14:SER:O	44:BX:17:ALA:N	2.48	0.46
44:BX:59:VAL:O	44:BX:59:VAL:HG12	2.16	0.46
45:BY:15:VAL:HG11	45:BY:20:TYR:O	2.15	0.46
46:BZ:133:ILE:HG22	46:BZ:133:ILE:O	2.16	0.46
47:B0:12:ASN:N	47:B0:12:ASN:ND2	2.62	0.46
48:B1:4:VAL:HG22	48:B1:5:CYS:H	1.81	0.46
57:BA:246:C:C2'	57:BA:247:G:H5'	2.46	0.46
57:BA:448:U:O4	57:BA:583:G:H1'	2.15	0.46
57:BA:575:A:O2'	57:BA:576:U:H5'	2.15	0.46
57:BA:664:C:H4'	57:BA:941:A:OP1	2.16	0.46
57:BA:1040:C:O2'	57:BA:1041:C:P	2.74	0.46
57:BA:1416:G:O2'	57:BA:1417:C:H5	1.98	0.46
57:BA:2134:A:H2	57:BA:2159:G:H1'	1.77	0.46
57:BA:2523:G:H2'	57:BA:2524:G:C5'	2.29	0.46
57:BA:2530:A:H2'	57:BA:2531:A:H5'	1.98	0.46
57:BA:2552:U:H2'	57:BA:2554:U:H5"	1.98	0.46
1:Ab:140:HIS:HA	1:Ab:143:GLU:HG2	1.97	0.46
2:Ac:181:ASN:HD21	2:Ac:204:LEU:HB2	1.80	0.46
5:Af:82:ARG:HB2	5:Af:85:VAL:CG2	2.43	0.46
7:Ah:30:ARG:HB3	7:Ah:30:ARG:CZ	2.46	0.46
8:Ai:69:GLY:O	8:Ai:70:LYS:C	2.57	0.46
11:Al:83:VAL:CG1	11:Al:84:LEU:N	2.76	0.46
22:Aa:227:G:H2'	22:Aa:228:A:C8	2.50	0.46
22:Aa:321:A:C2	22:Aa:333:G:C2	3.03	0.46
22:Aa:489:C:H2'	22:Aa:490:G:H8	1.80	0.46
22:Aa:780:A:C2	22:Aa:803:G:N1	2.84	0.46
22:Aa:797:C:O2'	22:Aa:798:G:H5'	2.13	0.46
22:Aa:1294:G:H2'	22:Aa:1295:G:H8	1.80	0.46
27:AD:66:ASP:OD2	27:AD:69:ARG:HG2	2.16	0.46
27:AD:201:HIS:C	27:AD:203:ASN:N	2.74	0.46
28:AE:11:MET:HE2	28:AE:24:THR:HB	1.97	0.46
28:AE:51:PHE:N	28:AE:74:PRO:HG2	2.31	0.46
29:AF:8:GLN:O	29:AF:9:ILE:C	2.57	0.46
30:AG:37:VAL:CG2	30:AG:159:VAL:HG23	2.45	0.46
30:AG:98:ARG:CG	51:A4:1:MET:HG2	2.45	0.46
30:AG:156:ASP:OD1	57:AA:2305:A:C5'	2.63	0.46
31:AH:41:MET:HG3	31:AH:43:VAL:HG13	1.93	0.46
32:AI:68:LEU:HG	32:AI:72:LEU:CD1	2.45	0.46
32:AI:111:PRO:O	32:AI:116:LEU:HD22	2.16	0.46
34:AN:120:LEU:CD2	34:AN:120:LEU:C	2.89	0.46
35:AO:87:ILE:HD12	35:AO:91:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:17:LYS:C	36:AP:19:VAL:H	2.24	0.46
36:AP:93:GLY:O	36:AP:123:LEU:HB2	2.15	0.46
36:AP:146:VAL:CG2	36:AP:147:LEU:N	2.73	0.46
39:AS:36:TYR:HA	39:AS:52:SER:HA	1.96	0.46
40:AT:61:PHE:CE2	40:AT:76:PHE:HB2	2.51	0.46
44:AX:14:SER:O	44:AX:17:ALA:HB3	2.16	0.46
45:AY:52:SER:O	45:AY:56:PRO:HD3	2.15	0.46
46:AZ:85:HIS:CE1	58:AB:75:G:H21	2.34	0.46
48:A1:41:ARG:HH11	48:A1:43:TYR:HE2	1.64	0.46
49:A2:57:ILE:O	49:A2:58:ALA:C	2.58	0.46
49:A2:70:GLN:HG3	49:A2:71:ASN:OD1	2.15	0.46
51:A4:56:VAL:HG12	51:A4:56:VAL:O	2.15	0.46
57:AA:291:C:H2'	57:AA:292:C:C6	2.50	0.46
57:AA:594:U:H2'	57:AA:595:C:H6	1.80	0.46
57:AA:1164:G:O2'	57:AA:1165:U:H5'	2.15	0.46
57:AA:1331:A:O2'	57:AA:1332:G:C8	2.69	0.46
57:AA:1373:A:H2'	57:AA:1374:G:O4'	2.16	0.46
57:AA:1535:A:H5"	57:AA:1536:C:OP2	2.15	0.46
57:AA:1592:C:H2'	57:AA:1593:G:H8	1.80	0.46
57:AA:2408:U:H2'	57:AA:2409:G:H8	1.81	0.46
1:Bb:85:ALA:CB	1:Bb:92:TYR:CD2	2.99	0.46
1:Bb:166:ASP:HB3	1:Bb:169:LYS:CB	2.40	0.46
3:Bd:13:ARG:NH2	3:Bd:36:ARG:HD3	2.31	0.46
3:Bd:47:ARG:NE	3:Bd:49:ARG:NH2	2.57	0.46
3:Bd:79:PHE:CD1	3:Bd:207:TYR:CD1	3.03	0.46
3:Bd:124:GLY:HA3	3:Bd:132:ARG:HH11	1.79	0.46
4:Be:137:GLU:CG	4:Be:141:GLN:HE21	2.25	0.46
5:Bf:37:VAL:HG12	5:Bf:38:GLU:H	1.81	0.46
7:Bh:1:MET:N	22:Ba:824:C:H4'	2.30	0.46
8:Bi:56:LEU:HD23	8:Bi:56:LEU:C	2.40	0.46
12:Bm:86:CYS:SG	12:Bm:89:GLY:N	2.83	0.46
15:Bp:75:ARG:HG3	15:Bp:75:ARG:HH11	1.81	0.46
18:Bs:6:LYS:O	18:Bs:7:LYS:HD3	2.16	0.46
18:Bs:70:LYS:HG2	22:Ba:1320:C:H5'	1.98	0.46
19:Bt:38:LYS:HB3	19:Bt:38:LYS:HE2	1.80	0.46
19:Bt:86:ARG:HG3	19:Bt:86:ARG:NH1	2.31	0.46
22:Ba:425:G:O2'	22:Ba:426:G:H5'	2.16	0.46
22:Ba:692:U:O2	22:Ba:694:A:C8	2.69	0.46
22:Ba:880:C:H2'	22:Ba:881:G:H8	1.81	0.46
22:Ba:983:A:H3'	22:Ba:983:A:N3	2.31	0.46
22:Ba:1206:G:C6	22:Ba:1207:G:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1217:C:H2'	22:Ba:1218:C:C6	2.51	0.46
22:Ba:1442(B):A:H2'	40:BT:118:ARG:HH12	1.79	0.46
22:Ba:1470:G:C2'	22:Ba:1471:G:H5'	2.46	0.46
27:BD:26:LYS:O	27:BD:27:THR:CB	2.64	0.46
27:BD:80:ALA:HB2	27:BD:96:HIS:CD2	2.51	0.46
31:BH:154:PRO:O	31:BH:156:ALA:N	2.48	0.46
32:BI:95:LYS:O	32:BI:99:GLU:HB2	2.15	0.46
36:BP:105:LEU:O	36:BP:106:LEU:CB	2.63	0.46
40:BT:8:LYS:C	40:BT:10:VAL:N	2.73	0.46
40:BT:13:ARG:HA	40:BT:13:ARG:NE	2.29	0.46
40:BT:85:LYS:O	40:BT:86:ILE:C	2.58	0.46
41:BU:65:ILE:HG12	41:BU:96:ALA:CB	2.46	0.46
42:BV:35:LEU:O	42:BV:36:PRO:C	2.58	0.46
43:BW:41:LYS:HE3	52:B5:25:LEU:HD11	1.98	0.46
43:BW:62:HIS:O	43:BW:63:ASP:C	2.59	0.46
46:BZ:118:GLN:C	46:BZ:120:ILE:H	2.23	0.46
46:BZ:136:PHE:O	46:BZ:137:ILE:C	2.59	0.46
57:BA:89:G:H3'	57:BA:90:U:H5'	1.95	0.46
57:BA:252:G:O2'	57:BA:253:C:H5'	2.16	0.46
57:BA:491:G:H2'	57:BA:492:A:H8	1.80	0.46
57:BA:747:U:O2	57:BA:2014:A:H1'	2.15	0.46
57:BA:962:G:O2'	57:BA:963:U:H5'	2.16	0.46
57:BA:1286:A:H2'	57:BA:1288:U:OP2	2.16	0.46
57:BA:1690:A:H2'	57:BA:1691:C:O4'	2.16	0.46
57:BA:1704:G:O2'	57:BA:1705:G:H5'	2.15	0.46
57:BA:1766:U:HO2'	57:BA:1767:C:H5'	1.80	0.46
57:BA:1784:A:H4'	57:BA:1785:A:C5'	2.46	0.46
57:BA:2399:G:H2'	57:BA:2400:G:O4'	2.16	0.46
57:BA:2401:U:H2'	57:BA:2402:C:H5"	1.97	0.46
57:BA:2475:C:H2'	57:BA:2477:C:OP1	2.15	0.46
1:Ab:22:LYS:HE2	1:Ab:22:LYS:CA	2.46	0.46
1:Ab:98:LEU:CB	1:Ab:101:MET:HE3	2.39	0.46
1:Ab:170:GLU:O	1:Ab:172:ILE:N	2.49	0.46
2:Ac:22:TRP:HE3	2:Ac:23:TYR:O	1.99	0.46
3:Ad:208:SER:O	22:Aa:8:A:N7	2.49	0.46
7:Ah:20:TYR:HE2	7:Ah:75:ARG:CD	2.24	0.46
9:Aj:38:ILE:HD11	9:Aj:71:LEU:CD2	2.33	0.46
11:Al:43:VAL:CG2	11:Al:93:LEU:HD22	2.44	0.46
11:Al:114:LYS:HD3	22:Aa:539:A:P	2.56	0.46
13:An:4:LYS:C	13:An:6:LEU:N	2.74	0.46
13:An:20:ALA:O	13:An:21:TYR:C	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:An:53:LEU:HB3	13:An:56:VAL:HG21	1.98	0.46
17:Ar:31:LEU:HD23	17:Ar:31:LEU:H	1.80	0.46
18:As:14:HIS:CE1	22:Aa:1014:A:H4'	2.50	0.46
22:Aa:33:A:H2'	22:Aa:34:C:C6	2.51	0.46
22:Aa:80:G:N7	22:Aa:81:U:C5	2.84	0.46
22:Aa:229:U:O2'	22:Aa:230:G:H5'	2.16	0.46
22:Aa:597:G:H2'	22:Aa:598:U:H5'	1.98	0.46
22:Aa:696:A:H1'	22:Aa:786:G:O2'	2.16	0.46
22:Aa:766:A:H2'	22:Aa:767:A:O4'	2.15	0.46
22:Aa:1245:A:O2'	22:Aa:1246:C:H5'	2.16	0.46
22:Aa:1248:A:C2'	22:Aa:1249:C:H5'	2.46	0.46
22:Aa:1457:G:H2'	22:Aa:1458:G:H8	1.81	0.46
26:AC:6:LYS:HD3	57:AA:2132:U:N3	2.27	0.46
27:AD:99:ASP:OD1	57:AA:1491:G:H5'	2.16	0.46
28:AE:33:VAL:HG23	28:AE:47:VAL:HG23	1.98	0.46
28:AE:64:LYS:O	28:AE:64:LYS:HG2	2.16	0.46
28:AE:70:ALA:O	28:AE:72:VAL:N	2.48	0.46
28:AE:107:THR:HA	28:AE:163:GLU:O	2.15	0.46
29:AF:1:MET:O	29:AF:2:LYS:C	2.59	0.46
30:AG:141:PHE:CD1	30:AG:142:PRO:HD2	2.50	0.46
32:AI:88:ILE:CG2	32:AI:89:TYR:N	2.78	0.46
32:AI:95:LYS:O	32:AI:99:GLU:HB2	2.16	0.46
35:AO:103:ALA:O	35:AO:105:GLU:N	2.49	0.46
36:AP:40:SER:HB3	57:AA:832:G:OP1	2.15	0.46
36:AP:112:LEU:HD13	36:AP:113:LYS:N	2.30	0.46
37:AQ:27:VAL:O	37:AQ:28:ALA:HB3	2.15	0.46
39:AS:95:HIS:CD2	58:AB:48:A:H4'	2.50	0.46
39:AS:99:LYS:O	39:AS:101:LEU:HD12	2.16	0.46
40:AT:70:VAL:CG1	40:AT:71:GLY:H	2.25	0.46
40:AT:77:PRO:O	40:AT:78:LEU:CB	2.64	0.46
42:AV:4:ILE:HG22	42:AV:4:ILE:O	2.15	0.46
46:AZ:155:LEU:HD23	46:AZ:155:LEU:N	2.30	0.46
47:A0:5:LYS:HB3	47:A0:5:LYS:HZ2	1.79	0.46
49:A2:33:MET:HA	49:A2:36:ARG:HE	1.81	0.46
54:A7:28:ARG:HG3	54:A7:28:ARG:HH11	1.81	0.46
55:A8:52:LYS:O	55:A8:56:GLU:OE1	2.34	0.46
57:AA:156:U:O4'	57:AA:158:U:O4	2.34	0.46
57:AA:826:U:H2'	57:AA:828:U:O4'	2.16	0.46
57:AA:923:C:H2'	57:AA:924:C:C6	2.47	0.46
57:AA:1199:U:O5'	57:AA:1199:U:H6	1.99	0.46
57:AA:1486:A:N1	57:AA:1504:C:N3	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1493:C:H2'	57:AA:1493:C:O2	2.14	0.46
57:AA:1509(B):A:H2'	57:AA:1510:G:H8	1.77	0.46
57:AA:1784:A:H4'	57:AA:1785:A:C5'	2.46	0.46
57:AA:1831:G:O2'	57:AA:1832:C:H5'	2.16	0.46
57:AA:1947:C:C3'	57:AA:1948:G:C5'	2.94	0.46
57:AA:2062:A:C2'	57:AA:2063:C:H5'	2.45	0.46
57:AA:2260:C:H2'	57:AA:2261:C:H6	1.79	0.46
57:AA:2524:G:H5'	57:AA:2524:G:C8	2.41	0.46
1:Bb:15:VAL:HG23	1:Bb:16:HIS:CE1	2.50	0.46
1:Bb:23:ARG:O	1:Bb:23:ARG:HG3	2.16	0.46
1:Bb:180:LEU:O	1:Bb:181:PHE:HB2	2.16	0.46
2:Bc:58:GLU:HB2	2:Bc:65:ALA:CB	2.45	0.46
2:Bc:115:LEU:C	2:Bc:117:ALA:N	2.72	0.46
5:Bf:19:LEU:HD23	5:Bf:19:LEU:O	2.15	0.46
9:Bj:3:LYS:HD2	9:Bj:77:PRO:CD	2.46	0.46
9:Bj:42:THR:OG1	22:Ba:1151:A:H5"	2.15	0.46
11:Bl:27:LEU:HB2	11:Bl:33:ARG:HD2	1.97	0.46
16:Bq:68:ARG:NH1	22:Ba:277:C:C5'	2.79	0.46
22:Ba:18:C:H2'	22:Ba:19:C:C6	2.51	0.46
22:Ba:131:C:H2'	22:Ba:132:C:C6	2.50	0.46
22:Ba:438:G:C4'	22:Ba:439:A:OP1	2.61	0.46
22:Ba:662:G:H2'	22:Ba:663:A:H8	1.80	0.46
22:Ba:908:A:H2'	22:Ba:909:A:H8	1.80	0.46
22:Ba:1339:A:H2'	22:Ba:1340:A:O4'	2.15	0.46
24:Bv:53:G:H2'	24:Bv:54:5MU:H6	1.81	0.46
27:BD:43:ARG:HD2	27:BD:44:ASN:OD1	2.15	0.46
27:BD:48:ARG:HH11	27:BD:48:ARG:CG	2.25	0.46
27:BD:70:TRP:HZ3	27:BD:146:GLU:OE2	1.98	0.46
27:BD:243:GLY:O	27:BD:244:ARG:HB3	2.15	0.46
27:BD:259:THR:CG2	57:BA:1798:U:H5'	2.45	0.46
28:BE:144:ARG:HB3	28:BE:145:LYS:H	1.49	0.46
31:BH:16:SER:O	31:BH:26:VAL:HA	2.16	0.46
32:BI:92:VAL:HG22	32:BI:97:ILE:HG13	1.98	0.46
32:BI:127:VAL:O	32:BI:128:LEU:HD13	2.15	0.46
33:BJ:70:GLU:C	33:BJ:72:ASP:H	2.22	0.46
36:BP:62:LEU:CD1	55:B8:30:ARG:HG2	2.46	0.46
36:BP:63:PRO:C	36:BP:65:ARG:H	2.22	0.46
36:BP:83:VAL:CG2	36:BP:105:LEU:HD13	2.45	0.46
41:BU:83:LEU:HB3	41:BU:88:ILE:HB	1.97	0.46
44:BX:54:VAL:C	44:BX:55:ASN:HD22	2.24	0.46
47:B0:14:ARG:HH11	47:B0:14:ARG:CG	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:41:ARG:HD3	47:B0:41:ARG:HA	1.77	0.46
48:B1:41:ARG:HD3	48:B1:43:TYR:OH	2.15	0.46
48:B1:57:GLU:O	48:B1:58:ILE:HG23	2.15	0.46
53:B6:27:LYS:HD3	53:B6:27:LYS:C	2.41	0.46
57:BA:576:U:H2'	57:BA:577:G:C8	2.51	0.46
57:BA:654(G):C:H2'	57:BA:654(H):G:H8	1.79	0.46
57:BA:843:G:O2'	57:BA:844:C:H5'	2.15	0.46
57:BA:1047:G:C8	57:BA:1110:G:C6	3.04	0.46
57:BA:1535:A:H5"	57:BA:1536:C:OP2	2.16	0.46
1:Ab:15:VAL:HG23	1:Ab:16:HIS:CE1	2.51	0.46
3:Ad:31:CYS:C	3:Ad:33:MET:N	2.65	0.46
8:Ai:121:ARG:HH12	22:Aa:1343:G:H1'	1.80	0.46
12:Am:83:ASP:CG	12:Am:84:ILE:N	2.72	0.46
13:An:25:VAL:HB	13:An:39:LEU:HD21	1.98	0.46
18:As:14:HIS:CD2	22:Aa:1014:A:H5'	2.51	0.46
21:Ay:54:LYS:HE2	21:Ay:61:ARG:CZ	2.46	0.46
22:Aa:14:U:H2'	22:Aa:16:A:OP2	2.15	0.46
22:Aa:764:C:C2	22:Aa:765:G:C8	3.04	0.46
22:Aa:1005:A:H4'	22:Aa:1037:C:O2'	2.15	0.46
22:Aa:1139:G:N3	22:Aa:1141:C:N4	2.64	0.46
22:Aa:1344:C:H6	22:Aa:1344:C:O5'	1.99	0.46
27:AD:72:LYS:HE3	27:AD:101:GLU:OE2	2.16	0.46
28:AE:95:ILE:N	28:AE:95:ILE:CD1	2.76	0.46
28:AE:170:LEU:HD12	28:AE:170:LEU:N	2.30	0.46
29:AF:28:ILE:HD12	29:AF:119:ARG:HH21	1.81	0.46
30:AG:27:ASN:ND2	58:AB:55:U:O3'	2.49	0.46
30:AG:125:PHE:H	30:AG:125:PHE:HD1	1.63	0.46
31:AH:114:VAL:O	31:AH:114:VAL:HG23	2.16	0.46
36:AP:35:HIS:O	36:AP:36:LYS:CB	2.64	0.46
37:AQ:109:VAL:HG12	37:AQ:113:GLN:HB3	1.96	0.46
38:AR:2:ARG:CD	38:AR:5:LYS:HE2	2.38	0.46
38:AR:79:LEU:HA	38:AR:83:ILE:CG1	2.45	0.46
40:AT:3:ARG:HE	57:AA:2876:G:C4'	2.27	0.46
41:AU:108:GLU:OE2	42:AV:44:LYS:HD3	2.16	0.46
42:AV:41:GLY:HA3	42:AV:45:THR:OG1	2.16	0.46
43:AW:26:GLY:O	43:AW:27:LYS:HG2	2.16	0.46
46:AZ:95:PRO:HA	46:AZ:129:SER:HB3	1.98	0.46
46:AZ:128:VAL:HG22	46:AZ:129:SER:N	2.31	0.46
46:AZ:141:VAL:HA	46:AZ:144:LEU:HD21	1.97	0.46
47:A0:36:ILE:HD12	47:A0:36:ILE:C	2.41	0.46
48:A1:3:LYS:HG3	48:A1:4:VAL:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:A3:52:HIS:CD2	50:A3:52:HIS:H	2.33	0.46
53:A6:5:VAL:HG11	57:AA:2284:C:OP1	2.16	0.46
57:AA:221:A:O2'	57:AA:222:A:OP2	2.31	0.46
57:AA:272(C):G:H2'	57:AA:272(D):G:H8	1.81	0.46
57:AA:535:C:C2'	57:AA:536:A:H5'	2.46	0.46
57:AA:1366:A:O2'	57:AA:1367:A:H5'	2.15	0.46
57:AA:1539:G:H2'	57:AA:1540:U:O4'	2.16	0.46
57:AA:1705:G:O2'	57:AA:1706:U:H5'	2.16	0.46
57:AA:2870:C:O2'	57:AA:2871:C:H5'	2.15	0.46
1:Bb:19:HIS:NE2	1:Bb:206:ASP:CG	2.74	0.46
1:Bb:178:ARG:HH22	7:Bh:74:PRO:HG3	1.81	0.46
1:Bb:178:ARG:HA	1:Bb:178:ARG:HD2	1.64	0.46
3:Bd:11:LEU:C	3:Bd:13:ARG:N	2.71	0.46
6:Bg:32:ARG:O	6:Bg:33:ASP:HB2	2.16	0.46
7:Bh:98:LYS:C	7:Bh:99:GLU:HG3	2.41	0.46
8:Bi:63:ILE:HG22	8:Bi:64:THR:N	2.30	0.46
12:Bm:29:ARG:HE	22:Ba:1329:A:H5'	1.81	0.46
17:Br:56:THR:CB	17:Br:58:LEU:HD13	2.46	0.46
17:Br:65:ILE:O	17:Br:69:THR:HG23	2.16	0.46
22:Ba:39:G:O2'	22:Ba:40:C:H5'	2.15	0.46
22:Ba:180:U:C2'	22:Ba:181:G:H5"	2.46	0.46
22:Ba:402:G:O2'	22:Ba:403:C:H5'	2.16	0.46
22:Ba:728:A:H2'	22:Ba:729:A:H8	1.79	0.46
22:Ba:1306:A:O2'	22:Ba:1307:U:H5'	2.16	0.46
22:Ba:1413:A:N1	22:Ba:1488:G:C2	2.83	0.46
25:Bw:76:A:O2'	57:BA:2394:C:N3	2.43	0.46
27:BD:71:ASP:OD2	27:BD:103:ARG:NH2	2.49	0.46
30:BG:136:ARG:NH1	57:BA:2306:C:H4'	2.31	0.46
30:BG:141:PHE:O	30:BG:144:ILE:CG2	2.62	0.46
31:BH:119:GLU:HG2	31:BH:120:GLY:N	2.30	0.46
34:BN:120:LEU:CD2	34:BN:120:LEU:C	2.89	0.46
36:BP:57:THR:HB	36:BP:58:THR:H	1.25	0.46
38:BR:82:GLU:C	38:BR:85:PRO:HD2	2.41	0.46
38:BR:100:LEU:HD22	38:BR:111:LEU:O	2.16	0.46
39:BS:59:LYS:HD2	39:BS:61:ASN:HB2	1.96	0.46
39:BS:70:GLY:C	39:BS:72:ALA:H	2.24	0.46
39:BS:95:HIS:CE1	58:BB:38:C:O4'	2.69	0.46
41:BU:15:LYS:NZ	57:BA:1217:C:OP2	2.37	0.46
42:BV:72:VAL:HG23	42:BV:72:VAL:O	2.16	0.46
43:BW:26:GLY:C	43:BW:27:LYS:HG2	2.41	0.46
43:BW:47:VAL:O	43:BW:50:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:12:VAL:HG13	44:BX:27:THR:O	2.15	0.46
45:BY:52:SER:O	45:BY:54:LYS:N	2.49	0.46
45:BY:88:LYS:HZ3	45:BY:93:GLY:CA	2.27	0.46
45:BY:97:ARG:HH11	45:BY:97:ARG:HG3	1.81	0.46
46:BZ:49:ARG:HD3	46:BZ:49:ARG:HA	1.77	0.46
53:B6:8:LYS:HE3	53:B6:25:LYS:HD3	1.97	0.46
53:B6:11:LEU:O	53:B6:24:GLU:N	2.41	0.46
53:B6:30:THR:O	53:B6:31:PRO:C	2.59	0.46
55:B8:53:PRO:HG2	55:B8:54:GLU:H	1.80	0.46
57:BA:30:G:C5	57:BA:31:C:C4	3.04	0.46
57:BA:230:U:O2	57:BA:230:U:H2'	2.16	0.46
57:BA:274:G:H2'	57:BA:275:G:C2	2.50	0.46
57:BA:433:C:H2'	57:BA:434:U:C6	2.51	0.46
57:BA:768:G:H2'	57:BA:769:G:C8	2.46	0.46
57:BA:838:C:O2'	57:BA:839:U:H5'	2.16	0.46
57:BA:946:G:O2'	57:BA:947:G:H5'	2.16	0.46
57:BA:1106:A:C8	57:BA:1107:G:N7	2.84	0.46
57:BA:1167:U:C2	57:BA:1183:G:N2	2.84	0.46
57:BA:1705:G:O2'	57:BA:1706:U:H5'	2.16	0.46
57:BA:1790:C:H5"	57:BA:1791:A:OP1	2.15	0.46
57:BA:2114:A:O2'	57:BA:2115:G:H5'	2.16	0.46
58:BB:55:U:H2'	58:BB:56:G:C8	2.50	0.46
1:Ab:28:PHE:CG	1:Ab:190:THR:HA	2.52	0.46
1:Ab:112:VAL:HA	1:Ab:115:LEU:HB3	1.97	0.46
1:Ab:137:ARG:HH11	1:Ab:137:ARG:HG2	1.80	0.46
1:Ab:230:VAL:HG23	1:Ab:231:GLU:N	2.31	0.46
4:Ae:91:LEU:HD22	4:Ae:91:LEU:N	2.30	0.46
7:Ah:109:ILE:HG12	7:Ah:110:ALA:N	2.30	0.46
12:Am:2:ALA:N	12:Am:9:ILE:HG23	2.31	0.46
12:Am:65:LYS:HA	12:Am:66:LEU:CD2	2.44	0.46
12:Am:72:ALA:O	12:Am:73:GLU:C	2.59	0.46
12:Am:90:LEU:C	12:Am:92:HIS:H	2.21	0.46
22:Aa:67:C:H2'	22:Aa:68:G:H8	1.74	0.46
22:Aa:131:C:H2'	22:Aa:132:C:C6	2.51	0.46
22:Aa:151:A:C2'	22:Aa:152:A:H5'	2.46	0.46
22:Aa:255:G:O6	22:Aa:266:G:O6	2.34	0.46
22:Aa:413:G:H1'	22:Aa:428:G:H21	1.81	0.46
22:Aa:513:C:H2'	22:Aa:514:C:C6	2.51	0.46
22:Aa:728:A:H2'	22:Aa:729:A:H8	1.81	0.46
22:Aa:965:A:OP1	22:Aa:1198:G:H5"	2.16	0.46
22:Aa:1012:U:H2'	22:Aa:1013:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1096:C:H2'	22:Aa:1097:C:H6	1.81	0.46
22:Aa:1158:C:N3	22:Aa:1160:G:N7	2.64	0.46
24:Av:61:C:H2'	24:Av:62:C:H6	1.81	0.46
27:AD:210:GLY:HA2	27:AD:213:ARG:HG2	1.97	0.46
28:AE:5:LEU:HD11	28:AE:49:LEU:O	2.16	0.46
29:AF:4:VAL:HG22	29:AF:19:GLU:CD	2.40	0.46
30:AG:102:PHE:HE2	30:AG:141:PHE:CE1	2.34	0.46
30:AG:110:ALA:O	30:AG:111:LEU:C	2.59	0.46
32:AI:10:GLU:O	32:AI:12:LEU:HD23	2.16	0.46
32:AI:72:LEU:O	32:AI:138:ILE:CD1	2.64	0.46
32:AI:126:TYR:HB2	32:AI:140:LEU:HD22	1.97	0.46
34:AN:41:ASP:O	34:AN:42:TRP:C	2.59	0.46
36:AP:107:LYS:C	36:AP:108:LYS:HD2	2.40	0.46
37:AQ:58:PHE:O	37:AQ:58:PHE:CD1	2.68	0.46
38:AR:73:VAL:O	38:AR:76:VAL:HG12	2.16	0.46
38:AR:82:GLU:C	38:AR:85:PRO:HD2	2.41	0.46
39:AS:12:PHE:HD2	39:AS:12:PHE:N	2.08	0.46
39:AS:13:ARG:CG	39:AS:14:VAL:N	2.75	0.46
41:AU:59:ARG:NH1	57:AA:1009:A:O4'	2.48	0.46
45:AY:96:ILE:CD1	45:AY:99:CYS:SG	3.04	0.46
46:AZ:12:GLY:C	46:AZ:13:GLU:CD	2.84	0.46
51:A4:43:TYR:O	51:A4:44:THR:O	2.34	0.46
57:AA:1177:A:C5'	57:AA:1178:C:C6	2.99	0.46
57:AA:1540:U:O3'	57:AA:1542:A:OP1	2.34	0.46
57:AA:1681:G:O2'	57:AA:1762:A:C2'	2.64	0.46
57:AA:1817:G:H2'	57:AA:1818:U:H5'	1.98	0.46
57:AA:1984:G:O2'	57:AA:1985:G:H5'	2.16	0.46
57:AA:2220:G:C4	57:AA:2221:G:C8	3.04	0.46
57:AA:2394:C:H2'	57:AA:2395:C:C6	2.51	0.46
2:Bc:181:ASN:HD21	2:Bc:204:LEU:HB2	1.81	0.46
3:Bd:135:LEU:HD11	22:Ba:619:U:N3	2.31	0.46
7:Bh:40:ALA:O	7:Bh:42:GLU:N	2.49	0.46
8:Bi:15:ALA:HB2	8:Bi:65:VAL:CG2	2.46	0.46
12:Bm:6:GLY:C	12:Bm:8:GLU:H	2.21	0.46
13:Bn:41:ARG:O	13:Bn:45:ARG:HB2	2.14	0.46
13:Bn:48:ALA:CA	13:Bn:53:LEU:HD12	2.45	0.46
21:By:61:ARG:NH2	23:Bx:21:CCC:PC	2.89	0.46
21:By:61:ARG:HB2	21:By:86:VAL:HG21	1.97	0.46
22:Ba:253:U:H2'	22:Ba:254:G:C8	2.51	0.46
22:Ba:423:G:H2'	22:Ba:424:G:H5'	1.96	0.46
22:Ba:630:G:C3'	22:Ba:631:G:C5'	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1073:U:H2'	22:Ba:1074:G:H8	1.81	0.46
28:BE:6:GLY:HA2	28:BE:51:PHE:CE2	2.51	0.46
28:BE:109:LYS:HE2	28:BE:191:PRO:HB3	1.98	0.46
30:BG:67:LYS:NZ	51:B4:6:HIS:NE2	2.63	0.46
30:BG:130:ASN:ND2	30:BG:161:THR:N	2.60	0.46
30:BG:133:LEU:HD12	30:BG:133:LEU:C	2.41	0.46
31:BH:159:GLU:OE1	31:BH:159:GLU:HA	2.15	0.46
32:BI:94:ALA:CA	32:BI:98:ALA:HB3	2.46	0.46
34:BN:76:SER:C	34:BN:78:TYR:N	2.71	0.46
35:BO:9:GLU:O	35:BO:83:ALA:HA	2.16	0.46
36:BP:35:HIS:N	57:BA:1190:G:H5'	2.29	0.46
36:BP:50:ARG:HB3	55:B8:59:LYS:HE2	1.98	0.46
37:BQ:118:LEU:HD12	37:BQ:131:ILE:CG2	2.46	0.46
47:B0:5:LYS:HB3	47:B0:5:LYS:HZ3	1.80	0.46
48:B1:94:LEU:HD12	48:B1:94:LEU:N	2.31	0.46
49:B2:64:LEU:HD11	49:B2:68:ARG:NH1	2.30	0.46
51:B4:20:ASN:C	51:B4:20:ASN:ND2	2.74	0.46
56:B9:1:MET:SD	57:BA:2477:C:H2'	2.56	0.46
57:BA:128:C:H2'	57:BA:129:C:O4'	2.16	0.46
57:BA:997:G:HO2'	57:BA:998:C:H5'	1.75	0.46
57:BA:1609:A:C2	57:BA:1616:A:C4	3.04	0.46
57:BA:1839:G:H5'	57:BA:1839:G:C8	2.47	0.46
57:BA:2189:U:H3'	57:BA:2190:G:C5'	2.44	0.46
57:BA:2713:A:H3'	57:BA:2714:G:H5'	1.98	0.46
57:BA:2728:U:C2'	57:BA:2729:G:H5'	2.46	0.46
1:Ab:18:GLY:CA	1:Ab:42:ILE:HG22	2.46	0.45
1:Ab:27:LYS:C	1:Ab:29:ALA:H	2.23	0.45
2:Ac:59:ARG:O	9:Aj:92:THR:O	2.35	0.45
3:Ad:116:GLN:HG3	22:Aa:407:G:O2'	2.16	0.45
6:Ag:23:VAL:O	6:Ag:23:VAL:HG12	2.14	0.45
8:Ai:29:ASN:OD1	8:Ai:64:THR:HG23	2.16	0.45
9:Aj:4:ILE:HG23	9:Aj:99:LYS:O	2.16	0.45
9:Aj:29:ARG:HH11	9:Aj:29:ARG:HG2	1.81	0.45
10:Ak:95:ILE:O	10:Ak:98:LEU:HB2	2.15	0.45
12:Am:19:LEU:HA	12:Am:22:ILE:HD13	1.98	0.45
12:Am:22:ILE:N	12:Am:22:ILE:HD12	2.31	0.45
13:An:42:ILE:HG21	22:Aa:1202:G:N1	2.31	0.45
15:Ap:6:LEU:HB3	15:Ap:17:TYR:HB3	1.99	0.45
18:As:6:LYS:HD2	18:As:6:LYS:N	2.21	0.45
21:Ay:5:LEU:HD23	21:Ay:73:VAL:HG12	1.97	0.45
22:Aa:36:C:O2'	22:Aa:37:U:H5'	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:983:A:H3'	22:Aa:983:A:N3	2.31	0.45
22:Aa:1212:U:H4'	22:Aa:1213:A:C8	2.51	0.45
22:Aa:1290:G:H2'	22:Aa:1290:G:N3	2.30	0.45
25:Aw:74:C:O2'	25:Aw:75:C:H5'	2.16	0.45
28:AE:4:ILE:HG12	28:AE:5:LEU:O	2.16	0.45
28:AE:47:VAL:HG22	28:AE:49:LEU:CD2	2.46	0.45
29:AF:22:ALA:CB	29:AF:26:ALA:HB2	2.42	0.45
30:AG:113:ARG:O	30:AG:140:ILE:CG2	2.63	0.45
30:AG:170:ARG:HH22	30:AG:182:LYS:CD	2.28	0.45
32:AI:28:ASN:HA	32:AI:32:PRO:HG2	1.97	0.45
34:AN:93:THR:O	34:AN:94:HIS:CB	2.63	0.45
35:AO:34:THR:OG1	35:AO:35:VAL:N	2.50	0.45
36:AP:88:LEU:CD2	36:AP:114:ILE:HD13	2.46	0.45
37:AQ:111:GLU:O	37:AQ:115:MET:HG2	2.16	0.45
38:AR:100:LEU:HD22	38:AR:111:LEU:O	2.16	0.45
38:AR:117:VAL:O	38:AR:118:GLU:CB	2.58	0.45
40:AT:11:GLU:O	40:AT:13:ARG:N	2.49	0.45
40:AT:85:LYS:O	40:AT:86:ILE:C	2.58	0.45
40:AT:125:ARG:O	40:AT:127:ALA:N	2.49	0.45
48:A1:20:ARG:HH11	48:A1:20:ARG:HG2	1.81	0.45
52:A5:55:ARG:O	52:A5:56:LYS:HE3	2.16	0.45
53:A6:37:ARG:HH21	57:AA:2286:A:N6	2.14	0.45
53:A6:47:THR:OG1	53:A6:48:VAL:N	2.49	0.45
55:A8:56:GLU:C	55:A8:58:ILE:H	2.23	0.45
57:AA:185:U:H2'	57:AA:186:G:C8	2.51	0.45
57:AA:274:G:C6	57:AA:276:A:N6	2.81	0.45
57:AA:491:G:H2'	57:AA:492:A:H8	1.81	0.45
57:AA:649:G:H2'	57:AA:650:C:C6	2.51	0.45
57:AA:654(A):G:H2'	57:AA:654(B):C:H5'	1.97	0.45
57:AA:1889:A:N1	57:AA:2234:G:H1'	2.31	0.45
58:AB:8:U:H3	58:AB:113:G:H1	1.63	0.45
1:Bb:50:GLU:HB3	1:Bb:200:ILE:O	2.16	0.45
1:Bb:170:GLU:O	1:Bb:172:ILE:N	2.48	0.45
2:Bc:182:ILE:HD11	2:Bc:203:PHE:HD1	1.79	0.45
3:Bd:2:GLY:O	3:Bd:3:ARG:C	2.58	0.45
3:Bd:23:GLY:O	3:Bd:27:TYR:HD1	2.00	0.45
3:Bd:59:ARG:C	3:Bd:61:LYS:N	2.74	0.45
3:Bd:120:LEU:HB3	3:Bd:126:ILE:CD1	2.45	0.45
3:Bd:120:LEU:HD23	3:Bd:125:HIS:HD2	1.81	0.45
4:Be:14:ARG:NH2	22:Ba:1079:G:O3'	2.49	0.45
10:Bk:118:GLY:HA2	22:Ba:716:A:N3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:29:ARG:NE	22:Ba:1329:A:H5'	2.30	0.45
18:Bs:40:ILE:HG21	18:Bs:62:ILE:CG1	2.46	0.45
21:By:23:ARG:HB3	21:By:23:ARG:HH11	1.81	0.45
21:By:51:TYR:CD2	21:By:52:LYS:N	2.84	0.45
22:Ba:155:C:H2'	22:Ba:156:G:C8	2.47	0.45
22:Ba:355:C:C4	22:Ba:356:A:N7	2.84	0.45
22:Ba:981:U:H2'	22:Ba:982:U:C5	2.51	0.45
22:Ba:1049:U:O2'	22:Ba:1050:G:OP2	2.32	0.45
22:Ba:1070:U:H2'	22:Ba:1071:C:H6	1.81	0.45
22:Ba:1283:G:O2'	22:Ba:1284:C:H5'	2.17	0.45
22:Ba:1498:U:C4	23:Bx:17:U:C5'	2.98	0.45
22:Ba:1502:A:H2	22:Ba:1505:G:H1	1.62	0.45
27:BD:176:ARG:HG2	27:BD:176:ARG:NH1	2.27	0.45
28:BE:134:ILE:HA	28:BE:137:HIS:CD2	2.51	0.45
29:BF:89:VAL:C	29:BF:91:GLY:H	2.19	0.45
30:BG:21:ARG:HD3	30:BG:21:ARG:C	2.41	0.45
32:BI:88:ILE:CD1	32:BI:120:ILE:HG21	2.26	0.45
36:BP:47:ASP:HB3	36:BP:48:PRO:C	2.41	0.45
37:BQ:27:VAL:O	37:BQ:28:ALA:HB3	2.16	0.45
42:BV:49:THR:O	42:BV:50:PRO:C	2.56	0.45
43:BW:47:VAL:C	43:BW:50:VAL:HG12	2.41	0.45
46:BZ:48:PHE:CD1	46:BZ:48:PHE:O	2.69	0.45
46:BZ:94:GLU:O	46:BZ:130:PRO:HD3	2.16	0.45
46:BZ:108:PRO:HG2	46:BZ:111:VAL:CG2	2.46	0.45
50:B3:5:LYS:CB	50:B3:36:VAL:HG12	2.42	0.45
52:B5:33:CYS:O	52:B5:35:GLU:N	2.43	0.45
55:B8:43:GLN:O	55:B8:44:LYS:HD2	2.15	0.45
56:B9:17:ILE:HG13	56:B9:26:ILE:HD12	1.96	0.45
57:BA:271(D):G:H1	57:BA:271(T):C:N4	2.05	0.45
57:BA:654(H):G:N2	57:BA:654(J):A:C8	2.79	0.45
57:BA:2220:G:C4	57:BA:2221:G:C8	3.04	0.45
57:BA:2259:G:C2	57:BA:2282:G:N1	2.85	0.45
58:BB:7:G:C3'	58:BB:8:U:C5'	2.88	0.45
58:BB:38:C:H42	58:BB:44:G:H1	1.64	0.45
1:Ab:23:ARG:O	1:Ab:23:ARG:HG3	2.17	0.45
1:Ab:72:GLY:HA2	1:Ab:165:VAL:HG22	1.98	0.45
1:Ab:216:SER:O	1:Ab:218:ALA:N	2.49	0.45
2:Ac:2:GLY:HA2	22:Aa:1060:C:C5	2.51	0.45
2:Ac:82:GLU:O	2:Ac:86:VAL:HG22	2.15	0.45
7:Ah:100:ILE:HA	7:Ah:101:PRO:HD3	1.83	0.45
9:Aj:7:LYS:CD	9:Aj:71:LEU:HD13	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:38:ILE:HG13	9:Aj:71:LEU:HB3	1.97	0.45
10:Ak:21:ILE:N	10:Ak:21:ILE:CD1	2.78	0.45
12:Am:83:ASP:OD2	12:Am:85:GLY:O	2.34	0.45
14:Ao:65:ARG:O	14:Ao:66:LEU:C	2.58	0.45
14:Ao:82:ILE:C	14:Ao:82:ILE:CD1	2.87	0.45
18:As:79:THR:O	18:As:80:TYR:CB	2.64	0.45
21:Ay:44:LEU:HD13	21:Ay:44:LEU:N	2.28	0.45
22:Aa:76:C:H42	22:Aa:93:G:H1	1.64	0.45
22:Aa:112:G:O2'	22:Aa:113:G:H5'	2.17	0.45
22:Aa:142:G:H2'	22:Aa:143:A:H8	1.80	0.45
22:Aa:164:U:H2'	22:Aa:165:C:C6	2.50	0.45
22:Aa:827:U:O2'	22:Aa:859:A:N1	2.42	0.45
22:Aa:980:C:H3'	22:Aa:981:U:C6	2.51	0.45
22:Aa:1001(A):G:O2'	22:Aa:1002:G:H5'	2.16	0.45
22:Aa:1252:A:H2'	22:Aa:1253:G:O4'	2.16	0.45
24:Av:22:G:O2'	24:Av:23:C:H5'	2.16	0.45
26:AC:11:LEU:HD13	26:AC:33:LEU:O	2.16	0.45
26:AC:43:GLU:OE2	57:AA:2124:G:H1'	2.16	0.45
27:AD:108:PRO:HG2	27:AD:111:LEU:HD23	1.98	0.45
27:AD:119:ALA:HB1	27:AD:130:ALA:HB3	1.97	0.45
28:AE:33:VAL:HG12	28:AE:69:LYS:HZ1	1.80	0.45
28:AE:111:ARG:HA	38:AR:2:ARG:CG	2.46	0.45
28:AE:186:GLY:O	28:AE:187:ALA:HB3	2.16	0.45
32:AI:81:VAL:CG2	32:AI:82:ARG:N	2.79	0.45
35:AO:13:ASN:O	35:AO:15:GLY:N	2.49	0.45
36:AP:90:ARG:HD2	36:AP:91:PHE:CD1	2.51	0.45
38:AR:103:ARG:HD3	43:AW:40:ASN:ND2	2.30	0.45
39:AS:70:GLY:C	39:AS:72:ALA:H	2.25	0.45
39:AS:81:GLY:O	39:AS:82:ILE:C	2.59	0.45
41:AU:3:ARG:HB3	57:AA:445:C:H5"	1.99	0.45
41:AU:74:LEU:CD2	41:AU:79:PHE:HB2	2.46	0.45
42:AV:47:VAL:O	42:AV:47:VAL:HG23	2.15	0.45
45:AY:4:LYS:HB2	45:AY:32:PRO:CG	2.45	0.45
46:AZ:108:PRO:CG	46:AZ:111:VAL:HG23	2.46	0.45
46:AZ:108:PRO:HB3	46:AZ:144:LEU:HB2	1.98	0.45
49:A2:30:ARG:CG	49:A2:31:GLU:N	2.80	0.45
57:AA:178:G:O2'	57:AA:179:G:H5'	2.16	0.45
57:AA:221:A:N6	57:AA:265:A:H8	2.14	0.45
57:AA:548:A:H2'	57:AA:548:A:N3	2.31	0.45
57:AA:564:C:O2'	57:AA:565:C:H5'	2.16	0.45
57:AA:1469:A:H2'	57:AA:1470:G:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1778:U:H2'	57:AA:1784:A:N6	2.32	0.45
57:AA:1827:C:H2'	57:AA:1828:G:O4'	2.15	0.45
57:AA:2258:C:H4'	57:AA:2259:G:OP2	2.15	0.45
57:AA:2808:U:C2'	57:AA:2809:A:H5'	2.45	0.45
57:AA:2828:C:O2'	57:AA:2829:C:H5'	2.16	0.45
2:Bc:148:GLY:HA3	2:Bc:172:ARG:O	2.16	0.45
9:Bj:4:ILE:HG23	9:Bj:99:LYS:O	2.16	0.45
9:Bj:6:ILE:HD11	9:Bj:72:VAL:CG2	2.46	0.45
11:Bl:83:VAL:HG12	11:Bl:84:LEU:H	1.80	0.45
12:Bm:2:ALA:N	12:Bm:9:ILE:HG23	2.31	0.45
12:Bm:20:THR:O	12:Bm:22:ILE:N	2.50	0.45
15:Bp:43:LYS:C	15:Bp:45:THR:N	2.75	0.45
16:Bq:3:LYS:HD2	16:Bq:60:ILE:HD11	1.98	0.45
17:Br:27:GLY:O	17:Br:29:PHE:N	2.48	0.45
17:Br:36:ASN:O	17:Br:39:VAL:HG23	2.15	0.45
22:Ba:589:C:O2'	22:Ba:590:C:H5'	2.15	0.45
22:Ba:708:C:H2'	22:Ba:709:G:C8	2.47	0.45
22:Ba:926:G:C6	22:Ba:1505:G:C6	3.04	0.45
22:Ba:1132:C:O2'	22:Ba:1133:G:H5'	2.16	0.45
22:Ba:1296:C:H3'	22:Ba:1297:C:H6	1.81	0.45
24:Bv:3:C:H2'	24:Bv:4:G:H5'	1.99	0.45
24:Bv:72:A:H2'	24:Bv:73:A:C5'	2.32	0.45
26:BC:6:LYS:HA	26:BC:9:ARG:CB	2.46	0.45
27:BD:72:LYS:HB3	27:BD:75:ILE:HD12	1.98	0.45
27:BD:122:ASP:O	27:BD:123:ALA:O	2.33	0.45
27:BD:135:PHE:CD2	27:BD:135:PHE:N	2.81	0.45
27:BD:147:LEU:HD12	27:BD:155:LEU:HD11	1.98	0.45
30:BG:5:VAL:CG1	30:BG:104:GLU:OE2	2.64	0.45
30:BG:11:TYR:OH	30:BG:33:ARG:HA	2.15	0.45
30:BG:83:ARG:C	30:BG:85:GLY:H	2.24	0.45
30:BG:125:PHE:O	30:BG:126:ASP:O	2.34	0.45
31:BH:30:LYS:HG3	31:BH:79:VAL:C	2.41	0.45
33:BJ:22:GLY:C	33:BJ:119:ALA:HA	2.40	0.45
35:BO:61:VAL:HG12	35:BO:85:VAL:HG12	1.98	0.45
36:BP:61:ARG:H	36:BP:61:ARG:HD2	1.80	0.45
41:BU:17:ILE:HG23	41:BU:39:LEU:HD12	1.97	0.45
45:BY:3:VAL:O	45:BY:4:LYS:C	2.59	0.45
47:B0:10:THR:HG22	47:B0:12:ASN:H	1.81	0.45
47:B0:49:LYS:HB2	47:B0:80:HIS:HB3	1.98	0.45
48:B1:8:SER:HB3	48:B1:66:HIS:CD2	2.51	0.45
48:B1:46:LEU:HB2	48:B1:62:VAL:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:27:THR:O	51:B4:27:THR:HG23	2.15	0.45
57:BA:70:G:C2'	57:BA:113:G:O2'	2.64	0.45
57:BA:470:A:H2'	57:BA:471:A:O4'	2.15	0.45
57:BA:950:G:C6	57:BA:951:C:C4	3.04	0.45
57:BA:1429:G:H2'	57:BA:1430:C:H6	1.81	0.45
57:BA:1435:G:H2'	57:BA:1436:G:O4'	2.16	0.45
57:BA:2236:C:H2'	57:BA:2237:G:H5'	1.97	0.45
57:BA:2735:G:H2'	57:BA:2736:G:C8	2.52	0.45
1:Ab:85:ALA:CB	1:Ab:92:TYR:CD2	2.98	0.45
1:Ab:145:LEU:CD1	1:Ab:149:LEU:HD12	2.46	0.45
1:Ab:208:ILE:HA	1:Ab:211:ILE:CD1	2.42	0.45
2:Ac:55:VAL:O	2:Ac:57:ILE:HG13	2.16	0.45
2:Ac:58:GLU:HB2	2:Ac:65:ALA:CB	2.46	0.45
2:Ac:179:ARG:HG3	2:Ac:179:ARG:NH1	2.31	0.45
3:Ad:65:ARG:HD2	3:Ad:72:GLU:HA	1.98	0.45
3:Ad:127:THR:HA	3:Ad:132:ARG:HA	1.98	0.45
4:Ae:19:MET:HE3	22:Aa:1398:A:C6	2.51	0.45
4:Ae:137:GLU:CG	4:Ae:141:GLN:HE21	2.26	0.45
5:Af:2:ARG:O	5:Af:66:GLU:HA	2.16	0.45
9:Aj:91:PRO:CB	9:Aj:94:VAL:HB	2.47	0.45
22:Aa:269:C:H2'	22:Aa:270:A:C8	2.51	0.45
22:Aa:340:U:H2'	22:Aa:341:C:H6	1.79	0.45
22:Aa:514:C:H2'	22:Aa:515:G:C8	2.51	0.45
22:Aa:627:G:H2'	22:Aa:628:G:H8	1.81	0.45
22:Aa:638:G:O2'	22:Aa:639:G:H5'	2.17	0.45
22:Aa:662:G:O2'	22:Aa:836:G:C5'	2.65	0.45
22:Aa:1479:C:H2'	22:Aa:1480:G:C8	2.52	0.45
25:Aw:38:A:H2'	25:Aw:39:C:H5'	1.98	0.45
28:AE:69:LYS:HZ2	28:AE:89:ASP:CA	2.28	0.45
30:AG:128:ARG:O	30:AG:129:GLY:C	2.58	0.45
30:AG:165:THR:C	30:AG:167:GLU:N	2.72	0.45
36:AP:35:HIS:CE1	57:AA:941:A:H4'	2.52	0.45
36:AP:48:PRO:O	36:AP:49:ARG:C	2.60	0.45
36:AP:63:PRO:HB2	55:A8:12:LYS:O	2.16	0.45
37:AQ:134:ARG:HA	37:AQ:137:TYR:HD1	1.79	0.45
38:AR:100:LEU:C	52:A5:44:THR:HG22	2.42	0.45
39:AS:83:LYS:CE	39:AS:105:ALA:HB3	2.47	0.45
47:A0:72:ARG:O	47:A0:73:GLY:C	2.59	0.45
53:A6:30:THR:HG22	53:A6:32:ASN:HD22	1.82	0.45
57:AA:271(R):G:H2'	57:AA:271(S):G:H8	1.82	0.45
57:AA:431:U:O5'	57:AA:431:U:H6	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:672:C:H2'	57:AA:673:C:H5"	1.89	0.45
57:AA:863:A:H2'	57:AA:864:G:C8	2.51	0.45
57:AA:893:C:H2'	57:AA:894:C:H6	1.77	0.45
57:AA:1188:U:H2'	57:AA:1189:A:H5'	1.98	0.45
57:AA:1273:U:H4'	57:AA:1275:A:OP1	2.16	0.45
57:AA:1719:G:C6	57:AA:1720:U:C4	3.04	0.45
57:AA:2552:U:C2	57:AA:2554:U:H5'	2.51	0.45
57:AA:2732:G:C3'	57:AA:2733:A:C5'	2.94	0.45
1:Bb:28:PHE:CG	1:Bb:190:THR:HA	2.51	0.45
1:Bb:30:ARG:HH21	1:Bb:194:PRO:HG2	1.81	0.45
1:Bb:54:THR:O	1:Bb:58:ILE:HG13	2.16	0.45
1:Bb:137:ARG:HH11	1:Bb:137:ARG:HG2	1.81	0.45
2:Bc:74:GLY:C	2:Bc:76:VAL:N	2.72	0.45
2:Bc:138:VAL:HG22	2:Bc:151:VAL:HG23	1.98	0.45
2:Bc:150:LYS:HG3	2:Bc:169:ALA:CB	2.43	0.45
3:Bd:9:CYS:SG	3:Bd:31:CYS:C	2.99	0.45
3:Bd:59:ARG:HH21	3:Bd:62:GLN:CB	2.29	0.45
7:Bh:23:SER:OG	7:Bh:60:ARG:HG3	2.15	0.45
7:Bh:89:PRO:CG	22:Ba:878:G:H5'	2.47	0.45
8:Bi:14:VAL:HG11	22:Ba:1148:U:H4'	1.98	0.45
8:Bi:53:VAL:HG11	8:Bi:85:LEU:HD22	1.98	0.45
8:Bi:74:ILE:HG22	8:Bi:74:ILE:O	2.16	0.45
10:Bk:95:ILE:O	10:Bk:98:LEU:HB2	2.16	0.45
12:Bm:65:LYS:HB3	12:Bm:66:LEU:HG	1.97	0.45
14:Bo:51:HIS:ND1	22:Ba:667:G:H4'	2.31	0.45
14:Bo:54:ARG:HG2	14:Bo:58:MET:HE2	1.98	0.45
15:Bp:5:ARG:HB2	22:Ba:376:G:OP1	2.16	0.45
15:Bp:52:ASP:OD2	15:Bp:54:GLU:HB2	2.16	0.45
19:Bt:100:ILE:O	19:Bt:100:ILE:HG23	2.17	0.45
22:Ba:726:C:O2'	22:Ba:727:G:H5'	2.16	0.45
22:Ba:1076:C:C2	22:Ba:1082:G:N2	2.84	0.45
22:Ba:1270:C:O2'	22:Ba:1271:G:H5'	2.17	0.45
22:Ba:1287:A:H2	22:Ba:1353:G:N3	2.15	0.45
22:Ba:1446:U:O2'	22:Ba:1447:A:H3'	2.15	0.45
22:Ba:1461:G:H2'	22:Ba:1462:G:H8	1.81	0.45
24:Bv:53:G:H1	24:Bv:61:C:H42	1.65	0.45
26:BC:50:ILE:H	26:BC:50:ILE:HD12	1.80	0.45
27:BD:206:LEU:HD23	27:BD:206:LEU:HA	1.74	0.45
28:BE:51:PHE:CD1	28:BE:51:PHE:C	2.94	0.45
29:BF:3:GLU:CB	29:BF:24:LEU:HG	2.47	0.45
29:BF:178:PRO:HG2	29:BF:179:GLU:CD	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:71:THR:HB	30:BG:89:GLY:HA3	1.98	0.45
30:BG:100:TRP:C	30:BG:102:PHE:N	2.72	0.45
32:BI:83:ALA:HB3	32:BI:143:SER:O	2.17	0.45
36:BP:61:ARG:HH11	55:B8:13:ARG:HD2	1.80	0.45
42:BV:40:LEU:N	42:BV:40:LEU:HD22	2.31	0.45
42:BV:83:ARG:HH11	42:BV:83:ARG:HG2	1.81	0.45
45:BY:31:LEU:CB	45:BY:32:PRO:CA	2.95	0.45
45:BY:96:ILE:HD13	45:BY:99:CYS:SG	2.56	0.45
46:BZ:61:LEU:O	46:BZ:63:ASP:N	2.40	0.45
47:B0:36:ILE:HD12	47:B0:38:VAL:H	1.82	0.45
48:B1:73:LEU:HA	48:B1:76:ARG:HG2	1.98	0.45
52:B5:3:LYS:HD3	57:BA:2613:U:H2'	1.99	0.45
57:BA:92:A:H2'	57:BA:93:G:O4'	2.17	0.45
57:BA:154(A):C:H2'	57:BA:154(A):C:O2	2.16	0.45
57:BA:506:G:O3'	57:BA:507:A:H8	1.98	0.45
57:BA:997:G:C2'	57:BA:998:C:H5'	2.46	0.45
57:BA:1107:G:O2'	57:BA:1108:U:H5'	2.16	0.45
57:BA:1231:G:H2'	57:BA:1232:G:H8	1.81	0.45
57:BA:1308:A:H2'	57:BA:1309:G:O4'	2.16	0.45
57:BA:1357:U:H2'	57:BA:1358:G:O4'	2.16	0.45
57:BA:1786:A:C2	57:BA:2606:C:H1'	2.51	0.45
57:BA:1866:C:H2'	57:BA:1876:A:O4'	2.15	0.45
57:BA:2287:A:C2	57:BA:2289:G:C8	3.04	0.45
57:BA:2314:C:O2	57:BA:2315:G:C8	2.69	0.45
57:BA:2693:A:H2'	57:BA:2694:G:C8	2.47	0.45
1:Ab:16:HIS:HB3	1:Ab:210:SER:CA	2.46	0.45
2:Ac:74:GLY:C	2:Ac:76:VAL:N	2.72	0.45
6:Ag:32:ARG:O	6:Ag:33:ASP:HB2	2.15	0.45
7:Ah:63:LEU:HB2	7:Ah:65:TYR:HE1	1.80	0.45
8:Ai:28:VAL:O	8:Ai:29:ASN:C	2.59	0.45
12:Am:29:ARG:HE	22:Aa:1329:A:H5'	1.81	0.45
12:Am:56:LEU:C	12:Am:56:LEU:HD13	2.42	0.45
18:As:23:ASN:O	18:As:25:LYS:N	2.50	0.45
18:As:70:LYS:HE3	18:As:70:LYS:N	2.31	0.45
19:At:100:ILE:O	19:At:100:ILE:HG13	2.17	0.45
21:Ay:5:LEU:HD23	21:Ay:73:VAL:CG1	2.46	0.45
21:Ay:5:LEU:O	21:Ay:6:ASP:HB2	2.15	0.45
22:Aa:67:C:O2'	22:Aa:171:A:H1'	2.16	0.45
22:Aa:271:C:H2'	22:Aa:272:C:C6	2.51	0.45
26:AC:56:ASP:O	26:AC:57:GLN:HG3	2.17	0.45
27:AD:25:THR:HG22	27:AD:26:LYS:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:48:ARG:HH11	27:AD:48:ARG:CG	2.21	0.45
27:AD:71:ASP:OD2	27:AD:103:ARG:NH2	2.50	0.45
28:AE:34:VAL:O	28:AE:34:VAL:CG2	2.64	0.45
28:AE:156:MET:HE2	57:AA:2050:C:H1'	1.98	0.45
29:AF:160:ASN:ND2	29:AF:160:ASN:C	2.73	0.45
30:AG:4:ASP:OD2	30:AG:9:ARG:NH2	2.48	0.45
31:AH:84:SER:O	31:AH:133:VAL:O	2.34	0.45
32:AI:55:ALA:O	32:AI:59:ALA:N	2.49	0.45
34:AN:67:LEU:O	34:AN:68:GLU:HB2	2.16	0.45
34:AN:130:HIS:HD2	57:AA:7:G:H5'	1.81	0.45
36:AP:7:ARG:HH11	36:AP:7:ARG:CB	2.28	0.45
39:AS:15:ARG:O	39:AS:18:ILE:HG22	2.16	0.45
39:AS:28:VAL:CG2	39:AS:87:PHE:HE1	2.30	0.45
40:AT:85:LYS:HB3	40:AT:85:LYS:HZ3	1.75	0.45
45:AY:22:GLY:O	45:AY:23:ARG:HG2	2.17	0.45
51:A4:33:VAL:CG1	51:A4:34:GLU:H	2.23	0.45
52:A5:40:LYS:HB2	52:A5:41:PRO:HD2	1.97	0.45
53:A6:38:LYS:O	53:A6:39:TYR:CD1	2.69	0.45
57:AA:838:C:O2'	57:AA:839:U:H5'	2.16	0.45
57:AA:2443:C:H2'	57:AA:2444:G:C8	2.51	0.45
57:AA:2464:C:O2'	57:AA:2465:C:C6	2.69	0.45
57:AA:2811:G:O2'	57:AA:2812:G:H5'	2.16	0.45
58:AB:82:G:H2'	58:AB:83:G:H8	1.82	0.45
1:Bb:170:GLU:C	1:Bb:172:ILE:N	2.72	0.45
3:Bd:38:TYR:CD2	3:Bd:45:GLN:HB3	2.51	0.45
5:Bf:17:SER:C	5:Bf:21:LEU:HD23	2.42	0.45
6:Bg:16:LEU:HD11	8:Bi:42:ARG:HG3	1.98	0.45
6:Bg:23:VAL:HG13	6:Bg:43:PHE:CE2	2.52	0.45
6:Bg:106:GLN:O	6:Bg:110:GLN:HG3	2.15	0.45
8:Bi:15:ALA:HB2	8:Bi:65:VAL:HG23	1.97	0.45
9:Bj:6:ILE:CD1	9:Bj:72:VAL:HB	2.41	0.45
11:Bl:84:LEU:HD22	11:Bl:101:VAL:HG21	1.99	0.45
13:Bn:51:GLY:C	13:Bn:53:LEU:N	2.74	0.45
16:Bq:66:SER:O	16:Bq:70:ARG:NH1	2.49	0.45
22:Ba:36:C:O5'	22:Ba:36:C:H6	2.00	0.45
22:Ba:42:G:H2'	22:Ba:43:C:C6	2.52	0.45
22:Ba:186:C:O2'	22:Ba:187:C:H5'	2.16	0.45
22:Ba:764:C:C2	22:Ba:765:G:C8	3.05	0.45
22:Ba:1095:U:H2'	22:Ba:1096:C:C6	2.51	0.45
22:Ba:1158:C:N3	22:Ba:1160:G:N7	2.64	0.45
22:Ba:1417:G:N2	22:Ba:1482:G:H2'	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1503:A:O2'	22:Ba:1504:G:O5'	2.35	0.45
26:BC:31:LYS:HZ1	26:BC:183:PRO:HD3	1.81	0.45
28:BE:156:MET:HE2	57:BA:2050:C:H1'	1.98	0.45
28:BE:170:LEU:HD12	28:BE:170:LEU:N	2.32	0.45
30:BG:97:ASP:N	30:BG:100:TRP:HD1	2.14	0.45
30:BG:106:LEU:HD12	30:BG:110:ALA:CB	2.46	0.45
31:BH:52:VAL:O	31:BH:65:HIS:HE1	1.99	0.45
32:BI:91:SER:N	32:BI:121:LYS:HZ3	2.14	0.45
34:BN:2:LYS:NZ	42:BV:12:TYR:HA	2.30	0.45
36:BP:17:LYS:CG	36:BP:19:VAL:CG2	2.93	0.45
38:BR:11:ASN:OD1	38:BR:11:ASN:C	2.59	0.45
38:BR:100:LEU:HD11	38:BR:113:LEU:HB3	1.99	0.45
39:BS:67:ARG:HH12	39:BS:71:ARG:HH22	1.65	0.45
40:BT:64:ARG:HD2	40:BT:73:GLU:CG	2.41	0.45
41:BU:101:ARG:C	41:BU:102:GLU:HG2	2.41	0.45
46:BZ:150:LEU:C	46:BZ:151:HIS:HD2	2.25	0.45
48:B1:3:LYS:HD2	48:B1:3:LYS:HA	1.69	0.45
49:B2:41:ILE:CD1	49:B2:43:GLN:HB2	2.47	0.45
55:B8:2:PRO:HA	57:BA:591:C:O2	2.17	0.45
57:BA:271(X):G:C3'	57:BA:271(Y):U:H5"	2.47	0.45
57:BA:275:G:H3'	57:BA:275:G:N3	2.31	0.45
57:BA:412:A:N6	57:BA:2412:A:O4'	2.49	0.45
57:BA:979:G:H3'	57:BA:980:A:H5"	1.99	0.45
57:BA:1199:U:O5'	57:BA:1199:U:H6	2.00	0.45
57:BA:1385:G:O2'	57:BA:1396:U:C6	2.66	0.45
57:BA:1431:U:O2'	57:BA:1432:C:H5'	2.17	0.45
57:BA:1602:U:H3'	57:BA:1603:A:H5"	1.99	0.45
57:BA:1834:U:O3'	57:BA:1835:G:H8	1.99	0.45
57:BA:1948:G:C2'	57:BA:1949:G:H5'	2.47	0.45
57:BA:1999:C:H4'	57:BA:2723:C:O2	2.16	0.45
1:Ab:96:ARG:N	1:Ab:96:ARG:HD2	2.31	0.45
1:Ab:233:SER:CB	1:Ab:234:PRO:HD2	2.29	0.45
3:Ad:194:LEU:HB3	3:Ad:196:LEU:CD1	2.47	0.45
5:Af:17:SER:O	5:Af:21:LEU:HD23	2.16	0.45
6:Ag:29:LYS:HB2	6:Ag:105:VAL:HG21	1.98	0.45
6:Ag:135:VAL:O	6:Ag:138:LYS:HB3	2.17	0.45
7:Ah:29:SER:O	7:Ah:32:LYS:N	2.49	0.45
12:Am:70:LEU:CD2	12:Am:71:ARG:N	2.80	0.45
13:An:6:LEU:HD22	13:An:21:TYR:OH	2.17	0.45
21:Ay:8:ASP:HB3	21:Ay:76:ILE:HG22	1.99	0.45
22:Aa:586:C:O2'	22:Aa:878:G:H4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:706:A:C5	22:Aa:707:C:C5	3.05	0.45
22:Aa:708:C:H2'	22:Aa:709:G:C8	2.46	0.45
22:Aa:791:G:C6	22:Aa:792:A:N7	2.84	0.45
22:Aa:1104:G:O2'	22:Aa:1105:A:H5'	2.16	0.45
22:Aa:1264:C:H1'	22:Aa:1272:G:H22	1.81	0.45
23:Ax:13:A:H2'	23:Ax:14:A:H5"	1.98	0.45
25:Aw:68:C:H2'	25:Aw:69:C:H6	1.81	0.45
27:AD:134:ARG:HG3	27:AD:135:PHE:CD2	2.51	0.45
27:AD:154:LYS:HE3	57:AA:1818:U:O4	2.15	0.45
29:AF:32:LEU:CD1	29:AF:105:VAL:HG13	2.45	0.45
29:AF:45:ARG:HD2	57:AA:443:A:C5	2.51	0.45
30:AG:19:LEU:C	30:AG:21:ARG:H	2.23	0.45
30:AG:48:GLU:O	30:AG:49:ASP:HB2	2.15	0.45
30:AG:56:ALA:HB2	30:AG:153:ARG:CZ	2.47	0.45
32:AI:133:HIS:O	32:AI:133:HIS:CG	2.69	0.45
34:AN:123:TYR:OH	34:AN:130:HIS:CE1	2.70	0.45
35:AO:102:VAL:HB	35:AO:106:LEU:HD12	1.98	0.45
37:AQ:43:THR:OG1	37:AQ:45:GLN:HG2	2.16	0.45
39:AS:89:ARG:HG3	39:AS:92:TYR:HA	1.98	0.45
40:AT:132:LYS:C	40:AT:134:GLU:N	2.71	0.45
41:AU:59:ARG:NH1	41:AU:59:ARG:HG3	2.32	0.45
44:AX:20:GLY:O	44:AX:25:LYS:HB2	2.17	0.45
46:AZ:24:LEU:CD2	46:AZ:25:PRO:O	2.65	0.45
46:AZ:43:GLU:OE1	46:AZ:43:GLU:N	2.48	0.45
47:A0:20:ARG:HD3	57:AA:2356:C:O3'	2.16	0.45
49:A2:14:ARG:NH2	57:AA:77:C:O3'	2.49	0.45
49:A2:65:ASN:HB3	49:A2:69:ARG:HH12	1.80	0.45
55:A8:14:VAL:CG2	55:A8:22:VAL:HG12	2.43	0.45
57:AA:21:A:H2'	57:AA:22:C:C6	2.51	0.45
57:AA:191:A:H2'	57:AA:192:C:H6	1.82	0.45
57:AA:275:G:H3'	57:AA:275:G:N3	2.31	0.45
57:AA:470:A:H2'	57:AA:471:A:O4'	2.17	0.45
57:AA:1435:G:H2'	57:AA:1436:G:O4'	2.16	0.45
57:AA:1503:U:H2'	57:AA:1504:C:H6	1.80	0.45
57:AA:1517:G:C2'	57:AA:1518:U:H5'	2.47	0.45
57:AA:1570:A:H2'	57:AA:1571:A:C8	2.51	0.45
57:AA:2033:A:O2'	57:AA:2034:U:P	2.75	0.45
1:Bb:101:MET:CB	1:Bb:102:LEU:HD12	2.47	0.45
5:Bf:55:ASP:OD2	5:Bf:86:ARG:NH1	2.50	0.45
7:Bh:110:ALA:HB3	7:Bh:121:ASP:HB3	1.97	0.45
10:Bk:33:THR:HB	10:Bk:37:GLY:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:25:PRO:O	11:Bl:27:LEU:N	2.49	0.45
13:Bn:6:LEU:HD22	13:Bn:21:TYR:OH	2.16	0.45
14:Bo:82:ILE:C	14:Bo:82:ILE:CD1	2.87	0.45
18:Bs:34:TRP:HB3	22:Ba:1219:U:O2'	2.17	0.45
19:Bt:33:ILE:O	19:Bt:34:LYS:C	2.60	0.45
22:Ba:189(C):C:C2'	22:Ba:189(D):C:H5'	2.46	0.45
22:Ba:1196:U:H3'	22:Ba:1197:G:C5'	2.47	0.45
22:Ba:1338:G:H2'	22:Ba:1339:A:C8	2.52	0.45
24:Bv:40:C:H2'	24:Bv:41:C:H6	1.80	0.45
24:Bv:47:U:C3'	24:Bv:48:C:C5'	2.81	0.45
25:Bw:20:U:H5	25:Bw:59:A:N6	2.14	0.45
25:Bw:20:U:C5	25:Bw:59:A:N6	2.84	0.45
27:BD:25:THR:HG22	27:BD:26:LYS:N	2.32	0.45
30:BG:15:VAL:HG21	30:BG:176:LEU:CD2	2.46	0.45
30:BG:71:THR:HB	30:BG:89:GLY:O	2.16	0.45
32:BI:55:ALA:O	32:BI:59:ALA:N	2.49	0.45
33:BJ:42:GLN:O	33:BJ:43:ALA:HB2	2.16	0.45
35:BO:7:TYR:C	35:BO:8:LEU:HD22	2.40	0.45
36:BP:90:ARG:HD2	36:BP:91:PHE:CD1	2.51	0.45
36:BP:101:VAL:HG12	36:BP:107:LYS:N	2.31	0.45
38:BR:8:ARG:HD3	38:BR:8:ARG:HA	1.77	0.45
38:BR:80:PHE:O	38:BR:85:PRO:HD3	2.17	0.45
40:BT:25:GLY:O	40:BT:26:ASP:HB2	2.16	0.45
40:BT:98:LYS:HB3	40:BT:100:TYR:CE1	2.52	0.45
40:BT:125:ARG:O	40:BT:127:ALA:N	2.50	0.45
42:BV:17:GLY:O	42:BV:18:LEU:HB3	2.17	0.45
44:BX:80:ILE:HD13	44:BX:80:ILE:C	2.41	0.45
45:BY:13:VAL:CG2	45:BY:72:VAL:HB	2.45	0.45
45:BY:18:GLY:C	45:BY:20:TYR:H	2.21	0.45
46:BZ:104:PHE:CB	46:BZ:141:VAL:HG21	2.47	0.45
49:B2:22:GLU:O	49:B2:24:LEU:N	2.49	0.45
50:B3:46:ASN:ND2	57:BA:850:C:O2'	2.47	0.45
52:B5:3:LYS:NZ	57:BA:2613:U:O2'	2.46	0.45
54:B7:13:ALA:O	54:B7:17:GLY:HA3	2.17	0.45
57:BA:195:A:H5"	57:BA:196:A:OP2	2.16	0.45
57:BA:229:A:H5"	57:BA:230:U:H5'	1.99	0.45
57:BA:535:C:C2'	57:BA:536:A:H5'	2.46	0.45
57:BA:892:G:H2'	57:BA:893:C:C6	2.51	0.45
57:BA:1406:U:H2'	57:BA:1407:C:C6	2.51	0.45
57:BA:1683:C:H2'	57:BA:1684:C:C6	2.51	0.45
57:BA:1862:G:H2'	57:BA:1863:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2097:C:O2'	57:BA:2098:U:H5'	2.16	0.45
57:BA:2558:C:H2'	57:BA:2559:C:O4'	2.16	0.45
57:BA:2808:U:C2'	57:BA:2809:A:H5'	2.46	0.45
1:Ab:111:ARG:NH1	1:Ab:111:ARG:HG2	2.32	0.45
1:Ab:209:ARG:HD3	1:Ab:239:VAL:CG1	2.47	0.45
2:Ac:126:ARG:O	2:Ac:127:ARG:HB2	2.16	0.45
2:Ac:155:GLY:O	2:Ac:156:ARG:CB	2.64	0.45
2:Ac:171:GLY:O	22:Aa:1106:G:H4'	2.16	0.45
3:Ad:25:ARG:HB2	22:Aa:409:G:H5'	1.99	0.45
6:Ag:16:LEU:HD11	8:Ai:42:ARG:HG3	1.98	0.45
6:Ag:59:LEU:O	6:Ag:59:LEU:HG	2.17	0.45
7:Ah:36:LEU:O	7:Ah:39:LEU:N	2.49	0.45
8:Ai:7:THR:N	8:Ai:83:ARG:HD2	2.28	0.45
8:Ai:65:VAL:HG21	8:Ai:73:GLN:CB	2.47	0.45
8:Ai:111:ARG:HG2	8:Ai:112:LYS:H	1.78	0.45
11:Al:27:LEU:HB2	11:Al:33:ARG:HD2	1.98	0.45
15:Ap:5:ARG:HB2	22:Aa:376:G:OP1	2.16	0.45
22:Aa:319:G:N2	22:Aa:320:C:H1'	2.32	0.45
22:Aa:583:A:H2'	22:Aa:584:G:O4'	2.17	0.45
22:Aa:930:C:O2'	22:Aa:931:C:H5'	2.16	0.45
22:Aa:1392:G:O2'	22:Aa:1393:U:H5'	2.16	0.45
22:Aa:1502:A:H2'	22:Aa:1502:A:N3	2.32	0.45
26:AC:180:SER:O	26:AC:181:PHE:C	2.60	0.45
27:AD:70:TRP:HB3	27:AD:190:TYR:CE1	2.52	0.45
27:AD:176:ARG:CG	27:AD:176:ARG:NH1	2.78	0.45
28:AE:18:ASP:O	28:AE:19:ARG:HB3	2.17	0.45
29:AF:62:ARG:HG2	29:AF:63:LYS:H	1.82	0.45
30:AG:5:VAL:HG13	51:A4:25:TYR:HE1	1.79	0.45
30:AG:54:GLU:O	30:AG:57:ALA:HB3	2.16	0.45
30:AG:67:LYS:N	30:AG:67:LYS:CE	2.63	0.45
30:AG:72:ARG:HG2	30:AG:86:MET:H	1.81	0.45
31:AH:11:VAL:HG23	31:AH:50:VAL:HG23	1.98	0.45
31:AH:88:LEU:N	31:AH:88:LEU:HD13	2.32	0.45
32:AI:91:SER:N	32:AI:121:LYS:NZ	2.65	0.45
35:AO:103:ALA:C	35:AO:105:GLU:H	2.23	0.45
36:AP:59:LEU:HA	36:AP:61:ARG:NE	2.28	0.45
37:AQ:69:PHE:CD1	37:AQ:70:PRO:HD2	2.52	0.45
44:AX:59:VAL:O	44:AX:59:VAL:HG12	2.16	0.45
46:AZ:44:PHE:CZ	46:AZ:86:VAL:HG11	2.52	0.45
46:AZ:135:GLU:O	46:AZ:136:PHE:C	2.60	0.45
48:A1:30:VAL:CG2	48:A1:31:GLY:H	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:A4:20:ASN:C	51:A4:20:ASN:ND2	2.75	0.45
57:AA:214:G:H1'	57:AA:216:A:O2'	2.16	0.45
57:AA:425:G:O2'	57:AA:426:C:H5'	2.17	0.45
57:AA:464:U:H2'	57:AA:465:G:O4'	2.16	0.45
57:AA:654(G):C:H2'	57:AA:654(H):G:H8	1.81	0.45
57:AA:1281:G:H5'	57:AA:1281:G:H8	1.81	0.45
57:AA:1416:G:O2'	57:AA:1417:C:H5	2.00	0.45
57:AA:1921:G:H2'	57:AA:1922:G:H8	1.82	0.45
57:AA:2314:C:O2	57:AA:2315:G:C8	2.70	0.45
57:AA:2558:C:H2'	57:AA:2559:C:O4'	2.16	0.45
1:Bb:22:LYS:N	1:Bb:40:HIS:HE1	2.14	0.45
2:Bc:141:VAL:O	2:Bc:141:VAL:HG12	2.17	0.45
3:Bd:43:HIS:C	3:Bd:45:GLN:N	2.73	0.45
3:Bd:54:TYR:O	3:Bd:55:ALA:C	2.60	0.45
3:Bd:96:LEU:N	3:Bd:96:LEU:CD1	2.79	0.45
3:Bd:205:GLU:OE1	4:Be:100:VAL:HG22	2.17	0.45
4:Be:92:LYS:O	4:Be:118:ILE:HD12	2.16	0.45
5:Bf:60:PHE:CE2	17:Br:78:LEU:HD21	2.52	0.45
6:Bg:22:LEU:CD2	6:Bg:62:PHE:HE2	2.30	0.45
6:Bg:111:ARG:CD	6:Bg:123:GLU:HB2	2.47	0.45
7:Bh:9:MET:HE1	7:Bh:32:LYS:O	2.17	0.45
8:Bi:125:TYR:HD2	8:Bi:126:SER:H	1.63	0.45
10:Bk:34:ASP:CB	10:Bk:40:ILE:HD11	2.40	0.45
14:Bo:18:PHE:O	14:Bo:18:PHE:HD1	1.99	0.45
14:Bo:36:ILE:HG22	14:Bo:37:ASN:HD22	1.82	0.45
15:Bp:19:ILE:HD13	15:Bp:38:TYR:O	2.16	0.45
18:Bs:79:THR:O	18:Bs:80:TYR:CB	2.64	0.45
20:Bu:17:THR:HG21	22:Ba:1325:C:H4'	1.97	0.45
22:Ba:227:G:H2'	22:Ba:228:A:C8	2.52	0.45
22:Ba:760:G:H2'	22:Ba:761:G:H5'	1.97	0.45
24:Bv:68:C:H2'	24:Bv:69:C:C6	2.52	0.45
24:Bv:71:C:H6	24:Bv:71:C:H5"	1.81	0.45
28:BE:7:VAL:CG1	28:BE:27:LEU:HB3	2.46	0.45
29:BF:3:GLU:HB2	29:BF:20:LEU:O	2.16	0.45
30:BG:37:VAL:HG23	30:BG:159:VAL:HA	1.99	0.45
30:BG:39:ILE:HD12	30:BG:40:ASN:N	2.31	0.45
30:BG:51:ARG:NH1	30:BG:53:LEU:CD2	2.79	0.45
31:BH:19:VAL:HG12	31:BH:20:ALA:N	2.32	0.45
33:BJ:96:PHE:C	33:BJ:132:ASP:HA	2.42	0.45
36:BP:16:ARG:CD	36:BP:18:ARG:HB2	2.47	0.45
36:BP:35:HIS:O	36:BP:36:LYS:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:137:TYR:OH	46:BZ:81:ARG:CZ	2.65	0.45
38:BR:101:ALA:O	38:BR:102:GLU:CB	2.64	0.45
39:BS:51:ALA:HB2	39:BS:73:LEU:HA	1.98	0.45
40:BT:56:GLY:O	40:BT:59:THR:HG23	2.16	0.45
40:BT:77:PRO:O	40:BT:78:LEU:CB	2.64	0.45
42:BV:38:LEU:HD22	42:BV:52:VAL:HG11	1.98	0.45
43:BW:79:GLY:C	43:BW:100:THR:HG22	2.41	0.45
46:BZ:41:LEU:O	46:BZ:44:PHE:N	2.48	0.45
46:BZ:168:GLU:C	46:BZ:170:THR:N	2.75	0.45
50:B3:9:VAL:HG11	50:B3:55:ARG:NH2	2.32	0.45
53:B6:11:LEU:CD1	53:B6:26:ASN:HB2	2.46	0.45
53:B6:38:LYS:O	53:B6:39:TYR:CD1	2.69	0.45
56:B9:9:ARG:CZ	56:B9:16:VAL:HG23	2.47	0.45
57:BA:275:G:N3	57:BA:275:G:H5"	2.31	0.45
57:BA:314:A:O2'	57:BA:315:G:H5'	2.16	0.45
57:BA:528:A:C2	57:BA:2043:C:H5'	2.51	0.45
57:BA:1763:G:H2'	57:BA:1764:G:H5'	1.99	0.45
57:BA:2033:A:O2'	57:BA:2034:U:P	2.74	0.45
57:BA:2247:A:O2'	57:BA:2248:C:H5'	2.16	0.45
57:BA:2394:C:H2'	57:BA:2395:C:C6	2.50	0.45
1:Ab:22:LYS:N	1:Ab:40:HIS:HE1	2.13	0.45
1:Ab:51:LEU:O	1:Ab:55:PHE:HD2	2.00	0.45
2:Ac:5:ILE:HG21	9:Aj:51:ARG:NH1	2.26	0.45
2:Ac:127:ARG:HG2	2:Ac:127:ARG:NH1	2.32	0.45
2:Ac:189:ALA:O	2:Ac:190:ARG:HG3	2.16	0.45
3:Ad:38:TYR:CD2	3:Ad:45:GLN:HB3	2.52	0.45
8:Ai:93:ARG:C	8:Ai:95:LYS:H	2.25	0.45
11:Al:25:PRO:O	11:Al:27:LEU:N	2.50	0.45
11:Al:84:LEU:CD1	11:Al:104:VAL:HG11	2.47	0.45
14:Ao:36:ILE:HG22	14:Ao:37:ASN:HD22	1.80	0.45
15:Ap:44:THR:O	22:Aa:617:G:H4'	2.16	0.45
18:As:70:LYS:CG	22:Aa:1320:C:H5'	2.47	0.45
19:At:50:GLU:HG3	19:At:100:ILE:HB	1.97	0.45
19:At:86:ARG:HG3	19:At:86:ARG:NH1	2.32	0.45
22:Aa:12:U:H4'	22:Aa:526:C:H4'	1.99	0.45
22:Aa:14:U:O2	22:Aa:17:U:H5	2.00	0.45
22:Aa:37:U:O2'	22:Aa:38:G:H5'	2.17	0.45
22:Aa:39:G:O2'	22:Aa:40:C:H5'	2.15	0.45
22:Aa:370:C:H2'	22:Aa:371:G:H8	1.82	0.45
22:Aa:1228:C:H2'	22:Aa:1229:A:C8	2.45	0.45
22:Aa:1424:C:H2'	22:Aa:1425:U:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Aw:9:G:O4'	25:Aw:46:G:O4'	2.35	0.45
27:AD:185:VAL:HG12	27:AD:186:HIS:N	2.31	0.45
27:AD:201:HIS:C	27:AD:203:ASN:H	2.25	0.45
27:AD:259:THR:CG2	57:AA:1798:U:H5'	2.46	0.45
28:AE:126:PRO:O	28:AE:127:ASP:C	2.60	0.45
31:AH:73:ALA:O	31:AH:76:VAL:HB	2.17	0.45
31:AH:158:HIS:CE1	31:AH:169:VAL:O	2.70	0.45
31:AH:159:GLU:OE1	31:AH:159:GLU:HA	2.15	0.45
32:AI:54:GLN:HA	32:AI:57:ARG:HD2	1.98	0.45
34:AN:126:PRO:O	34:AN:127:ASP:HB2	2.16	0.45
39:AS:95:HIS:HD2	58:AB:48:A:H4'	1.81	0.45
41:AU:93:LYS:NZ	57:AA:998:C:OP2	2.50	0.45
45:AY:95:LYS:HE2	45:AY:101:LYS:N	2.29	0.45
50:A3:31:LEU:C	50:A3:33:GLN:H	2.24	0.45
51:A4:3:GLU:CD	58:AB:40:U:C5	2.95	0.45
55:A8:22:VAL:CG2	55:A8:53:PRO:HB2	2.47	0.45
57:AA:545:C:N4	57:AA:547:A:C2	2.85	0.45
57:AA:1175:U:C4'	57:AA:1176:G:H5'	2.40	0.45
57:AA:1305:C:O2'	57:AA:1306:C:H5'	2.16	0.45
57:AA:1506:C:O2	57:AA:1506:C:C2'	2.64	0.45
57:AA:1722:A:N1	57:AA:1740:G:H8	2.15	0.45
57:AA:1808:U:H2'	57:AA:1809:A:O4'	2.17	0.45
57:AA:1949:G:H2'	57:AA:1950:G:C8	2.51	0.45
57:AA:2473:U:O2	57:AA:2473:U:O4'	2.34	0.45
58:AB:45:A:H2'	58:AB:45:A:N3	2.32	0.45
1:Bb:16:HIS:HB3	1:Bb:210:SER:CA	2.46	0.45
1:Bb:84:GLU:HG3	1:Bb:215:LEU:HB3	1.97	0.45
3:Bd:8:VAL:C	3:Bd:10:ARG:N	2.70	0.45
4:Be:101:ILE:CD1	4:Be:119:LEU:HD23	2.45	0.45
6:Bg:78:ARG:CZ	6:Bg:79:ARG:O	2.64	0.45
6:Bg:125:MET:O	6:Bg:126:ASP:C	2.60	0.45
7:Bh:64:LYS:HG2	7:Bh:79:VAL:HG21	1.98	0.45
7:Bh:120:THR:H	7:Bh:123:GLU:HB2	1.81	0.45
8:Bi:121:ARG:HH12	22:Ba:1343:G:H1'	1.82	0.45
9:Bj:29:ARG:HH11	9:Bj:29:ARG:HG2	1.82	0.45
10:Bk:121:PRO:O	10:Bk:122:LYS:O	2.34	0.45
19:Bt:40:ALA:C	19:Bt:42:GLN:N	2.73	0.45
21:By:5:LEU:HD22	21:By:7:PHE:CE1	2.51	0.45
22:Ba:93:G:O2'	22:Ba:96:U:H5'	2.17	0.45
22:Ba:791:G:C5	22:Ba:792:A:N7	2.85	0.45
22:Ba:918:A:O2'	22:Ba:919:A:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:965:A:C2	22:Ba:969:A:C2	3.05	0.45
22:Ba:1212:U:H4'	22:Ba:1213:A:C8	2.52	0.45
22:Ba:1222:G:O2'	22:Ba:1223:C:H5'	2.16	0.45
22:Ba:1255:G:H5'	22:Ba:1256:A:OP1	2.17	0.45
26:BC:56:ASP:O	26:BC:57:GLN:HG3	2.16	0.45
28:BE:1:MET:O	28:BE:2:LYS:C	2.59	0.45
30:BG:47:LYS:HE3	30:BG:81:LYS:NZ	2.31	0.45
30:BG:47:LYS:HB3	30:BG:48:GLU:H	1.44	0.45
30:BG:114:ILE:HG12	30:BG:140:ILE:HG21	1.99	0.45
31:BH:52:VAL:HG12	31:BH:53:GLU:N	2.30	0.45
31:BH:66:GLY:CA	31:BH:69:ARG:HB3	2.43	0.45
31:BH:83:TYR:HB3	31:BH:134:SER:CA	2.40	0.45
31:BH:84:SER:O	31:BH:133:VAL:O	2.34	0.45
31:BH:89:ILE:C	31:BH:89:ILE:HD12	2.42	0.45
32:BI:5:LEU:O	32:BI:6:LEU:HG	2.16	0.45
32:BI:68:LEU:CD2	32:BI:72:LEU:HD11	2.47	0.45
36:BP:38:GLN:OE1	36:BP:41:ARG:HD2	2.16	0.45
36:BP:91:PHE:CD1	36:BP:91:PHE:N	2.85	0.45
36:BP:107:LYS:C	36:BP:109:GLY:N	2.69	0.45
38:BR:44:LEU:HD13	38:BR:44:LEU:C	2.42	0.45
40:BT:34:VAL:O	40:BT:35:LYS:CB	2.56	0.45
40:BT:125:ARG:C	40:BT:127:ALA:H	2.25	0.45
44:BX:14:SER:O	44:BX:15:GLU:C	2.59	0.45
46:BZ:48:PHE:CE2	46:BZ:71:VAL:HG21	2.52	0.45
46:BZ:92:SER:OG	46:BZ:93:ASP:N	2.49	0.45
47:B0:16:SER:O	47:B0:17:GLN:O	2.34	0.45
49:B2:21:LEU:HD11	49:B2:63:VAL:HG12	1.97	0.45
53:B6:37:ARG:HH21	57:BA:2286:A:N6	2.14	0.45
53:B6:51:GLU:O	53:B6:52:VAL:HB	2.17	0.45
55:B8:44:LYS:HD2	55:B8:44:LYS:N	2.29	0.45
57:BA:78:A:H2'	57:BA:79:G:H8	1.81	0.45
57:BA:649:G:H2'	57:BA:650:C:O4'	2.16	0.45
57:BA:777:A:C2	57:BA:778:G:C4	3.05	0.45
57:BA:894:C:O2'	57:BA:895:U:H5'	2.17	0.45
57:BA:999:U:O2'	57:BA:1000:A:H5'	2.16	0.45
57:BA:2014:A:H2'	57:BA:2015:A:C8	2.51	0.45
57:BA:2600:A:C6	57:BA:2601:C:N4	2.85	0.45
1:Ab:84:GLU:O	1:Ab:219:VAL:HG21	2.16	0.45
2:Ac:77:ILE:CG2	2:Ac:81:GLY:HA2	2.46	0.45
2:Ac:115:LEU:O	2:Ac:116:VAL:C	2.59	0.45
2:Ac:140:ARG:HH11	2:Ac:140:ARG:HG3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:33:MET:O	3:Ad:37:PRO:HG3	2.16	0.45
3:Ad:120:LEU:HD23	3:Ad:125:HIS:HD2	1.82	0.45
4:Ae:64:ARG:HG3	4:Ae:64:ARG:NH1	2.32	0.45
4:Ae:122:GLU:OE2	22:Aa:9:G:H5"	2.16	0.45
4:Ae:148:VAL:C	4:Ae:150:ARG:N	2.75	0.45
8:Ai:20:ARG:O	8:Ai:21:PRO:C	2.59	0.45
8:Ai:111:ARG:CG	8:Ai:112:LYS:N	2.79	0.45
8:Ai:121:ARG:HH11	8:Ai:121:ARG:HG2	1.81	0.45
10:Ak:124:LYS:NZ	10:Ak:124:LYS:CB	2.80	0.45
11:Al:30:ALA:O	11:Al:31:PRO:C	2.57	0.45
14:Ao:43:LEU:HD12	14:Ao:56:LEU:HD22	1.99	0.45
14:Ao:76:GLU:C	14:Ao:78:TYR:N	2.74	0.45
16:Aq:26:GLN:O	16:Aq:27:PHE:HB3	2.15	0.45
17:Ar:51:LEU:HA	17:Ar:52:PRO:HD3	1.76	0.45
21:Ay:8:ASP:O	21:Ay:8:ASP:CG	2.60	0.45
22:Aa:99:U:H2'	22:Aa:100:C:C6	2.52	0.45
22:Aa:176:C:H2'	22:Aa:177:C:H6	1.82	0.45
22:Aa:189(C):C:C2'	22:Aa:189(D):C:H5'	2.47	0.45
22:Aa:374:A:C6	22:Aa:375:U:C4	3.05	0.45
22:Aa:432:A:N7	22:Aa:433:C:C4	2.85	0.45
22:Aa:954:G:C2	22:Aa:955:U:C2	3.05	0.45
22:Aa:1196:U:H3'	22:Aa:1197:G:C5'	2.47	0.45
22:Aa:1305:G:H22	22:Aa:1331:G:H1'	1.82	0.45
24:Av:4:G:O2'	24:Av:5:G:P	2.74	0.45
24:Av:28:C:O2'	24:Av:29:G:H5'	2.16	0.45
26:AC:7:ARG:HH22	26:AC:219:MET:CB	2.30	0.45
26:AC:218:THR:HG22	57:AA:2124:G:H21	1.81	0.45
27:AD:243:GLY:O	27:AD:244:ARG:HB3	2.16	0.45
29:AF:22:ALA:C	29:AF:24:LEU:N	2.73	0.45
29:AF:25:PRO:HB3	29:AF:119:ARG:CD	2.46	0.45
29:AF:68:LYS:HE2	57:AA:2444:G:P	2.56	0.45
30:AG:77:ILE:O	30:AG:77:ILE:CG2	2.59	0.45
30:AG:172:LEU:HD23	30:AG:173:LEU:HD23	1.98	0.45
31:AH:30:LYS:HG3	31:AH:79:VAL:C	2.42	0.45
31:AH:66:GLY:CA	31:AH:69:ARG:HB3	2.43	0.45
31:AH:83:TYR:HA	31:AH:135:GLY:N	2.28	0.45
32:AI:77:LEU:HD21	32:AI:79:ILE:CB	2.42	0.45
34:AN:3:THR:O	34:AN:4:TYR:CD1	2.70	0.45
35:AO:107:ARG:O	35:AO:110:GLY:N	2.50	0.45
36:AP:16:ARG:O	36:AP:18:ARG:N	2.49	0.45
36:AP:33:ARG:HG3	36:AP:34:GLY:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:79:ARG:O	36:AP:110:TYR:HB3	2.17	0.45
38:AR:6:SER:HB2	57:AA:2873:A:H1'	1.98	0.45
39:AS:23:ARG:CB	39:AS:24:LEU:HD22	2.45	0.45
41:AU:55:ARG:HG2	41:AU:58:ARG:HD2	1.99	0.45
41:AU:57:PHE:C	41:AU:59:ARG:H	2.25	0.45
41:AU:57:PHE:O	41:AU:58:ARG:C	2.58	0.45
41:AU:85:LYS:O	41:AU:86:ALA:C	2.60	0.45
41:AU:92:ARG:O	41:AU:93:LYS:C	2.60	0.45
44:AX:10:ALA:HB1	44:AX:11:PRO:CD	2.47	0.45
45:AY:89:PHE:C	45:AY:90:LEU:HD23	2.42	0.45
53:A6:30:THR:O	53:A6:31:PRO:C	2.60	0.45
56:A9:7:VAL:CG1	56:A9:25:VAL:CG2	2.94	0.45
57:AA:270:A:C2'	57:AA:271:A:H5'	2.47	0.45
57:AA:324:A:H2'	57:AA:325:G:O4'	2.17	0.45
57:AA:777:A:C2	57:AA:778:G:C4	3.05	0.45
57:AA:945:A:C4	57:AA:2448:A:C2	3.05	0.45
57:AA:1187:G:O5'	57:AA:1187:G:H8	2.00	0.45
57:AA:1317:A:H2'	57:AA:1318:C:H6	1.82	0.45
57:AA:2061:G:H5"	57:AA:2503:A:C2	2.52	0.45
57:AA:2340:G:O2'	57:AA:2341:G:H5'	2.17	0.45
57:AA:2713:A:H3'	57:AA:2714:G:H5'	1.98	0.45
57:AA:2866:U:C5	57:AA:2868:A:H1'	2.51	0.45
57:AA:2881:C:C2	57:AA:2882:A:C8	3.05	0.45
58:AB:87:G:N1	58:AB:91:C:N4	2.65	0.45
1:Bb:91:PRO:HG2	1:Bb:155:LEU:HD23	1.99	0.45
2:Bc:155:GLY:O	2:Bc:156:ARG:CB	2.65	0.45
3:Bd:33:MET:O	3:Bd:37:PRO:HG3	2.17	0.45
4:Be:54:ALA:O	4:Be:55:VAL:C	2.60	0.45
5:Bf:54:LYS:HE3	22:Ba:710:G:OP1	2.17	0.45
6:Bg:79:ARG:CD	6:Bg:82:GLY:H	2.19	0.45
6:Bg:93:PRO:O	6:Bg:96:GLN:HB2	2.16	0.45
7:Bh:19:VAL:HG21	7:Bh:21:LYS:HE2	1.99	0.45
8:Bi:18:PHE:HB3	8:Bi:20:ARG:HH12	1.82	0.45
9:Bj:7:LYS:HB2	9:Bj:97:GLU:HB2	1.99	0.45
9:Bj:38:ILE:HG13	9:Bj:71:LEU:HB3	1.99	0.45
11:Bl:68:ALA:HB1	11:Bl:85:ILE:HD11	1.97	0.45
13:Bn:42:ILE:O	13:Bn:43:CYS:C	2.57	0.45
14:Bo:23:GLY:O	14:Bo:24:SER:HB3	2.17	0.45
15:Bp:6:LEU:HB3	15:Bp:17:TYR:HB3	1.97	0.45
18:Bs:10:PHE:HB2	22:Ba:1318:A:H4'	1.99	0.45
18:Bs:77:THR:CG2	22:Ba:1221:G:H4'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:271:C:H2'	22:Ba:272:C:C6	2.52	0.45
22:Ba:429:U:C1'	22:Ba:430:A:H5"	2.47	0.45
22:Ba:543:C:C2	22:Ba:544:G:C8	3.05	0.45
22:Ba:780:A:C2	22:Ba:803:G:N1	2.85	0.45
22:Ba:1432:G:OP1	40:BT:107:ASP:HB2	2.17	0.45
26:BC:213:VAL:HG12	26:BC:225:ILE:CD1	2.47	0.45
27:BD:16:MET:HE1	27:BD:208:LYS:HD3	1.99	0.45
27:BD:28:GLU:CD	27:BD:29:PRO:HD2	2.42	0.45
28:BE:7:VAL:HA	28:BE:194:GLY:O	2.16	0.45
30:BG:73:ALA:HA	57:BA:2312:U:OP1	2.17	0.45
32:BI:88:ILE:CG2	32:BI:89:TYR:N	2.80	0.45
32:BI:111:PRO:CG	32:BI:112:LYS:HD2	2.39	0.45
33:BJ:70:GLU:C	33:BJ:72:ASP:N	2.75	0.45
34:BN:3:THR:O	34:BN:4:TYR:CD1	2.70	0.45
35:BO:107:ARG:HH12	40:BT:35:LYS:HD2	1.82	0.45
39:BS:81:GLY:O	39:BS:82:ILE:C	2.59	0.45
40:BT:19:LEU:HD22	40:BT:85:LYS:CG	2.46	0.45
40:BT:57:PHE:O	40:BT:58:ASN:C	2.59	0.45
41:BU:20:LEU:N	41:BU:20:LEU:CD2	2.79	0.45
41:BU:55:ARG:HG2	41:BU:58:ARG:HD2	1.98	0.45
41:BU:92:ARG:HE	57:BA:996:A:C4'	2.29	0.45
42:BV:5:VAL:HG11	42:BV:57:VAL:HG11	1.98	0.45
42:BV:34:GLU:O	42:BV:36:PRO:CD	2.65	0.45
43:BW:20:VAL:CG2	43:BW:21:VAL:N	2.78	0.45
44:BX:63:LYS:HD2	57:BA:1312:U:OP2	2.17	0.45
46:BZ:68:PRO:HG2	46:BZ:91:LEU:N	2.32	0.45
46:BZ:118:GLN:N	46:BZ:173:ALA:O	2.42	0.45
51:B4:6:HIS:N	51:B4:6:HIS:CD2	2.84	0.45
52:B5:51:TYR:C	52:B5:53:ALA:N	2.74	0.45
57:BA:435:C:H2'	57:BA:436:C:H5'	1.99	0.45
57:BA:860:U:O2	57:BA:860:U:O4'	2.35	0.45
57:BA:870:A:H2'	57:BA:871:U:O4'	2.17	0.45
57:BA:873:G:H8	57:BA:873:G:O5'	1.98	0.45
57:BA:991:C:H5'	57:BA:991:C:C6	2.47	0.45
57:BA:1305:C:O2'	57:BA:1306:C:H5'	2.17	0.45
57:BA:1517:G:C2'	57:BA:1518:U:H5'	2.47	0.45
57:BA:2064:C:H2'	57:BA:2065:C:C6	2.52	0.45
57:BA:2277:G:H2'	57:BA:2278:A:H5'	1.98	0.45
57:BA:2464:C:HO2'	57:BA:2465:C:P	2.39	0.45
57:BA:2656:U:H2'	57:BA:2657:A:H5"	1.98	0.45
57:BA:2866:U:C5	57:BA:2868:A:H1'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:180:LEU:O	1:Ab:181:PHE:HB2	2.16	0.45
2:Ac:53:ALA:HB2	2:Ac:115:LEU:CD2	2.47	0.45
3:Ad:23:GLY:O	3:Ad:27:TYR:HD1	2.00	0.45
3:Ad:163:GLU:CD	3:Ad:163:GLU:C	2.85	0.45
4:Ae:112:LEU:C	4:Ae:114:GLY:N	2.71	0.45
5:Af:30:LEU:HB3	5:Af:35:ALA:HB3	1.99	0.45
7:Ah:94:TYR:CG	22:Aa:598:U:H4'	2.51	0.45
9:Aj:4:ILE:CB	9:Aj:74:ILE:HD11	2.30	0.45
9:Aj:6:ILE:CD1	9:Aj:72:VAL:HB	2.43	0.45
10:Ak:18:ARG:HB2	10:Ak:33:THR:OG1	2.17	0.45
11:Al:62:SER:C	11:Al:64:TYR:H	2.23	0.45
12:Am:5:ALA:HA	12:Am:61:GLU:OE2	2.17	0.45
21:Ay:47:MET:O	21:Ay:48:PRO:C	2.59	0.45
21:Ay:56:ARG:N	22:Aa:530:G:O2'	2.40	0.45
22:Aa:175:C:H2'	22:Aa:176:C:H6	1.81	0.45
22:Aa:253:U:H2'	22:Aa:254:G:H8	1.82	0.45
22:Aa:377:G:H2'	22:Aa:378:G:H8	1.82	0.45
22:Aa:1132:C:O2'	22:Aa:1133:G:H5'	2.16	0.45
25:Aw:62:C:O5'	25:Aw:62:C:H6	2.00	0.45
26:AC:21:TYR:HB3	26:AC:25:GLU:HG3	1.99	0.45
27:AD:9:TYR:CD2	57:AA:727:A:H2	2.34	0.45
27:AD:114:GLY:O	27:AD:115:GLN:C	2.59	0.45
28:AE:109:LYS:HE2	28:AE:191:PRO:HB3	1.99	0.45
29:AF:160:ASN:HD21	29:AF:162:LEU:HB2	1.82	0.45
30:AG:128:ARG:CZ	57:AA:2302:G:H1'	2.47	0.45
31:AH:41:MET:SD	31:AH:53:GLU:O	2.75	0.45
35:AO:120:GLU:CD	35:AO:122:LEU:HD21	2.42	0.45
36:AP:50:ARG:CG	36:AP:51:PHE:N	2.80	0.45
36:AP:112:LEU:HD13	36:AP:112:LEU:C	2.42	0.45
36:AP:126:VAL:HG22	36:AP:145:PRO:CB	2.47	0.45
40:AT:54:ARG:O	40:AT:55:ASN:HB2	2.16	0.45
43:AW:93:ALA:CB	57:AA:1614:A:H62	2.29	0.45
44:AX:30:VAL:HG11	44:AX:39:ILE:HD12	1.99	0.45
46:AZ:71:VAL:HG22	46:AZ:88:PHE:CE2	2.52	0.45
47:A0:12:ASN:N	47:A0:12:ASN:ND2	2.63	0.45
48:A1:82:LEU:HD22	48:A1:82:LEU:N	2.32	0.45
49:A2:6:VAL:HA	49:A2:9:GLN:NE2	2.31	0.45
52:A5:33:CYS:O	52:A5:35:GLU:N	2.43	0.45
55:A8:61:LEU:HD12	55:A8:62:LEU:H	1.76	0.45
57:AA:83:G:N2	57:AA:102:G:H2'	2.32	0.45
57:AA:116:C:O2'	57:AA:126:A:N3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:225:A:O2'	57:AA:257:A:H4'	2.17	0.45
57:AA:545:C:H2'	57:AA:547:A:C5'	2.47	0.45
57:AA:646:A:N3	57:AA:646:A:H5'	2.32	0.45
57:AA:858:U:O2	57:AA:2268:A:H2'	2.17	0.45
57:AA:947:G:H2'	57:AA:948:G:H8	1.81	0.45
57:AA:1210:A:H5"	57:AA:1212:G:H5'	1.98	0.45
57:AA:1227:G:O2'	57:AA:1228:G:H5'	2.17	0.45
57:AA:1241:A:O2'	57:AA:1242:A:H5'	2.17	0.45
57:AA:1440:G:H2'	57:AA:1441:G:H8	1.82	0.45
57:AA:1587:A:H2'	57:AA:1588:C:C6	2.52	0.45
57:AA:1739:U:O2	57:AA:1739:U:H2'	2.15	0.45
57:AA:2475:C:H2'	57:AA:2477:C:OP1	2.17	0.45
57:AA:2491:U:H5'	57:AA:2570:G:C5'	2.19	0.45
57:AA:2795:G:N2	57:AA:2796:U:H2'	2.32	0.45
2:Bc:52:LEU:H	2:Bc:52:LEU:CD2	2.30	0.45
2:Bc:171:GLY:O	22:Ba:1106:G:H4'	2.16	0.45
3:Bd:52:SER:O	3:Bd:53:ASP:C	2.60	0.45
3:Bd:127:THR:HA	3:Bd:132:ARG:HA	1.98	0.45
5:Bf:25:ILE:HD13	5:Bf:25:ILE:HA	1.86	0.45
7:Bh:30:ARG:HB3	7:Bh:30:ARG:CZ	2.46	0.45
8:Bi:63:ILE:HD11	8:Bi:81:ILE:CD1	2.36	0.45
11:Bl:120:TYR:HD1	11:Bl:120:TYR:N	2.15	0.45
11:Bl:120:TYR:CD1	11:Bl:120:TYR:N	2.85	0.45
22:Ba:22:G:H4'	22:Ba:885:G:C8	2.52	0.45
22:Ba:59:A:H5'	22:Ba:60:A:H5'	1.99	0.45
22:Ba:232:G:H1'	22:Ba:262:A:N1	2.32	0.45
22:Ba:612:C:O2'	22:Ba:613:C:H5'	2.17	0.45
22:Ba:678:U:O2	22:Ba:777:A:H4'	2.17	0.45
22:Ba:1097:C:H2'	22:Ba:1098:C:C6	2.50	0.45
22:Ba:1252:A:H2'	22:Ba:1253:G:O4'	2.17	0.45
22:Ba:1294:G:H2'	22:Ba:1295:G:H8	1.81	0.45
22:Ba:1427:U:H2'	22:Ba:1428:A:H8	1.81	0.45
25:Bw:24:U:O2'	25:Bw:25:C:H5'	2.16	0.45
27:BD:10:THR:C	27:BD:11:PRO:O	2.59	0.45
27:BD:43:ARG:NH1	27:BD:44:ASN:HD21	2.15	0.45
27:BD:134:ARG:HG3	27:BD:135:PHE:CD2	2.52	0.45
29:BF:160:ASN:ND2	29:BF:160:ASN:C	2.72	0.45
31:BH:89:ILE:HG22	31:BH:162:ILE:HG22	1.98	0.45
31:BH:158:HIS:CE1	31:BH:169:VAL:O	2.70	0.45
34:BN:90:MET:HB3	34:BN:98:VAL:HG22	1.99	0.45
36:BP:114:ILE:HG23	36:BP:130:PHE:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:117:GLU:OE2	57:BA:637:A:H2'	2.16	0.45
38:BR:73:VAL:O	38:BR:76:VAL:HG12	2.16	0.45
39:BS:83:LYS:CE	39:BS:105:ALA:HB3	2.46	0.45
40:BT:22:PHE:HD2	40:BT:22:PHE:N	2.07	0.45
40:BT:61:PHE:CE2	40:BT:76:PHE:HB2	2.52	0.45
41:BU:97:ASP:C	41:BU:99:ALA:N	2.73	0.45
44:BX:70:LEU:HD23	44:BX:71:GLY:N	2.32	0.45
46:BZ:10:ARG:NH2	46:BZ:26:GLY:O	2.49	0.45
46:BZ:104:PHE:HB3	46:BZ:141:VAL:HG21	1.98	0.45
46:BZ:108:PRO:CB	46:BZ:144:LEU:HD23	2.34	0.45
46:BZ:131:ARG:CG	46:BZ:132:ASN:H	2.28	0.45
46:BZ:136:PHE:O	46:BZ:136:PHE:HD1	1.99	0.45
47:B0:29:GLN:HG2	57:BA:923:C:H4'	1.98	0.45
49:B2:10:LEU:HB3	49:B2:14:ARG:HH11	1.82	0.45
52:B5:34:PRO:O	52:B5:35:GLU:HG2	2.17	0.45
53:B6:31:PRO:O	53:B6:32:ASN:CG	2.60	0.45
56:B9:31:LYS:HD3	57:BA:2478:A:OP1	2.17	0.45
57:BA:173:G:N3	57:BA:173:G:H2'	2.31	0.45
57:BA:271(R):G:H2'	57:BA:271(S):G:C8	2.51	0.45
57:BA:366:C:H5'	57:BA:370:G:H5'	1.99	0.45
57:BA:953:A:C2'	57:BA:954:G:H5'	2.47	0.45
57:BA:1642:G:O2'	57:BA:1643:G:H5'	2.17	0.45
57:BA:2585:U:O2	57:BA:2585:U:O4'	2.35	0.45
3:Ad:58:LEU:O	3:Ad:61:LYS:HB3	2.17	0.45
3:Ad:187:ARG:HH11	3:Ad:187:ARG:HG2	1.81	0.45
5:Af:55:ASP:OD2	5:Af:86:ARG:NH1	2.50	0.45
7:Ah:9:MET:HE1	7:Ah:35:ILE:HB	1.99	0.45
7:Ah:49:GLU:HG3	7:Ah:49:GLU:O	2.17	0.45
7:Ah:72:PRO:O	7:Ah:73:ASP:C	2.60	0.45
9:Aj:82:ILE:CG2	9:Aj:86:MET:SD	3.04	0.45
9:Aj:90:LEU:O	9:Aj:90:LEU:HG	2.17	0.45
10:Ak:105:VAL:O	10:Ak:105:VAL:HG23	2.17	0.45
12:Am:82:MET:CA	12:Am:93:ARG:NH1	2.80	0.45
13:An:2:ALA:O	13:An:6:LEU:HD12	2.17	0.45
13:An:51:GLY:C	13:An:53:LEU:N	2.74	0.45
16:Aq:22:LEU:CD1	16:Aq:39:SER:HB2	2.47	0.45
19:At:27:LYS:HD3	19:At:27:LYS:C	2.42	0.45
19:At:100:ILE:O	19:At:101:GLY:C	2.60	0.45
21:Ay:50:CYS:H	21:Ay:65:GLN:HA	1.82	0.45
22:Aa:646:U:H2'	22:Aa:647:C:C6	2.52	0.45
22:Aa:655:A:O2'	22:Aa:656:C:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:937:A:C2	22:Aa:1379:G:C6	3.05	0.45
22:Aa:1285:A:H1'	22:Aa:1286:A:OP2	2.17	0.45
22:Aa:1387:G:H2'	22:Aa:1388:C:C6	2.52	0.45
26:AC:26:ALA:C	26:AC:28:ARG:N	2.75	0.45
28:AE:69:LYS:C	28:AE:71:GLY:N	2.68	0.45
29:AF:153:SER:OG	29:AF:190:GLU:HG3	2.17	0.45
39:AS:12:PHE:N	39:AS:12:PHE:CD2	2.76	0.45
41:AU:33:ARG:HG3	57:AA:581:C:OP1	2.16	0.45
41:AU:92:ARG:HD2	42:AV:11:GLN:NE2	2.32	0.45
42:AV:39:LEU:CB	42:AV:40:LEU:HD23	2.47	0.45
45:AY:15:VAL:CG1	45:AY:16:ALA:N	2.80	0.45
46:AZ:29:TYR:HA	46:AZ:34:ASN:HA	1.98	0.45
46:AZ:125:LEU:HD12	46:AZ:126:VAL:N	2.32	0.45
48:A1:23:LYS:C	48:A1:24:ALA:O	2.59	0.45
50:A3:8:LEU:HB2	50:A3:28:LEU:HD13	1.98	0.45
52:A5:34:PRO:O	52:A5:35:GLU:HG2	2.16	0.45
53:A6:27:LYS:NZ	57:AA:2285:C:OP1	2.50	0.45
55:A8:62:LEU:N	55:A8:63:PRO:CD	2.79	0.45
57:AA:633:A:N3	57:AA:2403:C:H4'	2.32	0.45
57:AA:649:G:H2'	57:AA:650:C:O4'	2.16	0.45
57:AA:680:G:H2'	57:AA:681:G:C8	2.52	0.45
57:AA:816:C:O2'	57:AA:817:C:H5'	2.16	0.45
57:AA:843:G:O2'	57:AA:844:C:H5'	2.17	0.45
57:AA:1047:G:C8	57:AA:1110:G:C6	3.05	0.45
57:AA:1231:G:H2'	57:AA:1232:G:H8	1.82	0.45
57:AA:1754:C:H2'	57:AA:1755:A:O4'	2.17	0.45
57:AA:1957:C:H2'	57:AA:1958:C:C6	2.48	0.45
57:AA:2082:A:H2'	57:AA:2083:G:O4'	2.17	0.45
57:AA:2165:G:H2'	57:AA:2166:G:O4'	2.17	0.45
57:AA:2361:A:C2'	57:AA:2362:G:H5'	2.47	0.45
1:Bb:194:PRO:HG2	1:Bb:195:ASP:OD1	2.17	0.45
1:Bb:219:VAL:O	1:Bb:223:ILE:HG13	2.17	0.45
8:Bi:85:LEU:HD13	8:Bi:92:TYR:CD2	2.52	0.45
9:Bj:90:LEU:O	9:Bj:90:LEU:HG	2.17	0.45
12:Bm:37:THR:O	12:Bm:39:ILE:HG13	2.17	0.45
14:Bo:34:LEU:O	14:Bo:35:ARG:C	2.60	0.45
17:Br:50:ILE:HD12	17:Br:70:ILE:HG21	1.96	0.45
18:Bs:29:ARG:O	18:Bs:31:ILE:N	2.49	0.45
19:Bt:26:ASN:HA	19:Bt:29:LYS:HG2	1.99	0.45
19:Bt:100:ILE:O	19:Bt:100:ILE:HG13	2.16	0.45
20:Bu:6:ARG:NH1	20:Bu:15:ARG:NH2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:59:A:N3	22:Ba:59:A:H2'	2.30	0.45
22:Ba:176:C:H2'	22:Ba:177:C:H6	1.82	0.45
22:Ba:475:G:H2'	22:Ba:476:G:C8	2.52	0.45
22:Ba:1234:C:O2'	22:Ba:1235:U:H5'	2.17	0.45
22:Ba:1435:G:H2'	22:Ba:1436:U:C6	2.52	0.45
22:Ba:1442(A):G:N2	40:BT:119:LYS:HB2	2.32	0.45
25:Bw:1:C:N3	25:Bw:73:A:C2	2.84	0.45
26:BC:21:TYR:HB3	26:BC:25:GLU:HG3	1.98	0.45
26:BC:180:SER:O	26:BC:181:PHE:C	2.59	0.45
27:BD:33:LEU:HD23	27:BD:33:LEU:C	2.42	0.45
27:BD:210:GLY:C	27:BD:212:SER:N	2.75	0.45
27:BD:240:ALA:HA	57:BA:1971:A:N3	2.32	0.45
28:BE:4:ILE:HG12	28:BE:5:LEU:O	2.16	0.45
29:BF:188:ARG:CA	36:BP:7:ARG:HD3	2.46	0.45
30:BG:66:GLN:OE1	30:BG:94:LEU:HD23	2.17	0.45
30:BG:71:THR:HB	30:BG:89:GLY:CA	2.46	0.45
30:BG:146:TYR:O	30:BG:148:MET:N	2.50	0.45
30:BG:149:VAL:HG22	30:BG:151:ALA:H	1.82	0.45
31:BH:114:VAL:HG23	31:BH:114:VAL:O	2.17	0.45
32:BI:29:TYR:HE1	32:BI:33:ARG:HE	1.60	0.45
34:BN:26:LEU:O	34:BN:30:ILE:HG13	2.16	0.45
36:BP:47:ASP:HB3	36:BP:48:PRO:O	2.16	0.45
37:BQ:21:THR:CG2	37:BQ:101:ARG:HB2	2.47	0.45
41:BU:33:ARG:C	41:BU:35:ALA:N	2.73	0.45
45:BY:28:LYS:HG2	45:BY:39:VAL:HG22	1.98	0.45
45:BY:74:PRO:O	45:BY:80:GLY:HA2	2.17	0.45
46:BZ:10:ARG:HG3	46:BZ:18:LEU:HD21	1.99	0.45
49:B2:2:LYS:HA	49:B2:5:GLU:OE1	2.17	0.45
50:B3:52:HIS:CG	58:BB:83:G:H4'	2.52	0.45
51:B4:2:LYS:HG3	58:BB:40:U:O4	2.17	0.45
51:B4:26:SER:OG	51:B4:27:THR:N	2.40	0.45
56:B9:7:VAL:CG1	56:B9:25:VAL:CG2	2.95	0.45
56:B9:19:ARG:NH2	57:BA:2755:C:H3'	2.32	0.45
57:BA:142:A:C8	57:BA:1408:C:H1'	2.52	0.45
57:BA:324:A:H2'	57:BA:325:G:O4'	2.17	0.45
57:BA:716:A:H3'	57:BA:717:G:H5"	1.99	0.45
57:BA:858:U:O2	57:BA:2268:A:H2'	2.17	0.45
57:BA:863:A:H2'	57:BA:864:G:C8	2.52	0.45
57:BA:1177:A:C5'	57:BA:1178:C:C6	3.00	0.45
57:BA:1754:C:H2'	57:BA:1755:A:O4'	2.17	0.45
57:BA:1832:C:N4	57:BA:1833:U:C4	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2179:C:O2	57:BA:2181:G:O6	2.35	0.45
57:BA:2517:C:C6	57:BA:2542:A:C2	3.05	0.45
57:BA:2852:G:O2'	57:BA:2853:C:H5'	2.17	0.45
57:BA:2881:C:C2	57:BA:2882:A:C8	3.05	0.45
1:Ab:137:ARG:HD3	1:Ab:138:LEU:HG	2.00	0.44
1:Ab:166:ASP:HB3	1:Ab:169:LYS:CB	2.40	0.44
2:Ac:4:LYS:HZ2	22:Aa:1191:A:H5"	1.82	0.44
2:Ac:150:LYS:HG3	2:Ac:169:ALA:CB	2.45	0.44
3:Ad:92:VAL:O	3:Ad:96:LEU:HD13	2.17	0.44
4:Ae:31:LEU:HD22	4:Ae:43:LEU:CD1	2.43	0.44
5:Af:17:SER:O	5:Af:18:GLN:C	2.58	0.44
6:Ag:18:TYR:CE2	6:Ag:59:LEU:HB2	2.52	0.44
12:Am:111:LYS:HE3	22:Aa:1227:A:OP2	2.17	0.44
16:Aq:22:LEU:HD12	16:Aq:23:VAL:N	2.32	0.44
22:Aa:782:A:H4'	22:Aa:1514:C:O2'	2.17	0.44
25:Aw:2:G:H2'	25:Aw:3:C:H6	1.81	0.44
25:Aw:38:A:C2'	25:Aw:39:C:H5'	2.47	0.44
26:AC:28:ARG:HH11	26:AC:28:ARG:HG3	1.82	0.44
27:AD:33:LEU:C	27:AD:33:LEU:HD23	2.42	0.44
27:AD:118:VAL:CG2	27:AD:119:ALA:N	2.76	0.44
27:AD:158:ALA:O	27:AD:161:THR:HG23	2.16	0.44
27:AD:229:VAL:HG21	57:AA:784:A:N7	2.32	0.44
29:AF:4:VAL:HG13	29:AF:19:GLU:OE2	2.17	0.44
29:AF:95:ARG:HH12	57:AA:589:C:H5"	1.82	0.44
31:AH:84:SER:O	31:AH:85:LYS:HB2	2.15	0.44
31:AH:88:LEU:HD21	31:AH:164:TYR:O	2.17	0.44
32:AI:129:THR:HG22	32:AI:130:TYR:N	2.32	0.44
34:AN:57:ALA:O	34:AN:58:ASP:C	2.60	0.44
36:AP:16:ARG:HD3	36:AP:16:ARG:O	2.16	0.44
36:AP:57:THR:HB	36:AP:58:THR:H	1.24	0.44
39:AS:66:ALA:O	39:AS:69:VAL:HG12	2.16	0.44
39:AS:67:ARG:HH12	39:AS:71:ARG:HH22	1.65	0.44
40:AT:55:ASN:ND2	40:AT:58:ASN:HD21	2.15	0.44
41:AU:17:ILE:HG23	41:AU:39:LEU:CD1	2.47	0.44
41:AU:69:CYS:HB3	41:AU:106:PHE:HZ	1.83	0.44
41:AU:92:ARG:NH2	42:AV:10:LYS:HB3	2.32	0.44
42:AV:19:LYS:HZ3	42:AV:20:LEU:CB	2.30	0.44
43:AW:64:MET:O	43:AW:65:LEU:CB	2.65	0.44
45:AY:96:ILE:HD12	45:AY:100:ALA:O	2.17	0.44
48:A1:19:GLN:O	48:A1:35:THR:HG22	2.16	0.44
49:A2:32:LEU:O	49:A2:33:MET:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:A2:47:ASN:ND2	57:AA:94(A):G:N2	2.64	0.44
57:AA:154(A):C:H2'	57:AA:154(A):C:O2	2.16	0.44
57:AA:246:C:H2'	57:AA:247:G:H5'	1.99	0.44
57:AA:274:G:H2'	57:AA:275:G:C2	2.52	0.44
57:AA:774:A:H2	57:AA:787:U:HO2'	1.59	0.44
57:AA:873:G:H8	57:AA:873:G:O5'	2.00	0.44
57:AA:892:G:H2'	57:AA:893:C:C6	2.51	0.44
57:AA:1465:G:C2	57:AA:1466:G:C8	3.05	0.44
57:AA:1516:C:H2'	57:AA:1517:G:H8	1.81	0.44
57:AA:2252:G:H2'	57:AA:2253:G:O4'	2.18	0.44
57:AA:2262:U:H2'	57:AA:2263:C:C6	2.52	0.44
57:AA:2415:G:C5	57:AA:2416:C:C4	3.06	0.44
57:AA:2652:C:H5'	57:AA:2653:U:OP2	2.17	0.44
2:Bc:73:PRO:C	2:Bc:76:VAL:HG22	2.42	0.44
2:Bc:77:ILE:CG2	2:Bc:81:GLY:HA2	2.47	0.44
4:Be:144:THR:H	4:Be:147:ASP:HB2	1.81	0.44
8:Bi:20:ARG:O	8:Bi:21:PRO:C	2.59	0.44
8:Bi:121:ARG:HH11	8:Bi:121:ARG:HG2	1.81	0.44
10:Bk:59:TYR:CE1	10:Bk:63:LEU:HD21	2.52	0.44
11:Bl:22:SER:C	11:Bl:24:VAL:N	2.69	0.44
12:Bm:73:GLU:O	12:Bm:77:ASN:N	2.48	0.44
12:Bm:102:ARG:NH1	22:Ba:951:G:OP2	2.49	0.44
22:Ba:646:U:H2'	22:Ba:647:C:C6	2.52	0.44
22:Ba:1015:A:H2'	22:Ba:1016:A:C8	2.52	0.44
22:Ba:1082:G:C2'	22:Ba:1083:U:H5'	2.47	0.44
27:BD:148:GLU:HB3	27:BD:151:LYS:HD2	1.99	0.44
27:BD:158:ALA:O	27:BD:161:THR:HG23	2.16	0.44
27:BD:175:LEU:HD12	27:BD:185:VAL:HG21	1.98	0.44
27:BD:239:ARG:O	57:BA:1971:A:C2	2.69	0.44
30:BG:16:ARG:HG3	30:BG:16:ARG:HH11	1.82	0.44
30:BG:43:LEU:HB3	30:BG:45:GLU:CG	2.47	0.44
30:BG:125:PHE:HB3	30:BG:130:ASN:O	2.17	0.44
31:BH:11:VAL:HG12	31:BH:15:VAL:HG23	1.99	0.44
32:BI:81:VAL:CG2	32:BI:82:ARG:N	2.79	0.44
32:BI:124:GLY:H	32:BI:142:VAL:HG11	1.81	0.44
32:BI:126:TYR:HB2	32:BI:140:LEU:HD22	1.98	0.44
34:BN:10:GLU:CD	34:BN:11:PRO:HD2	2.42	0.44
36:BP:146:VAL:HG13	36:BP:147:LEU:H	1.78	0.44
37:BQ:42:ILE:CG2	37:BQ:47:ILE:HG13	2.47	0.44
39:BS:15:ARG:O	39:BS:18:ILE:HG22	2.17	0.44
40:BT:107:ASP:H	40:BT:110:ILE:CG1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:12:VAL:HG23	44:BX:13:LEU:N	2.29	0.44
45:BY:96:ILE:HG21	45:BY:99:CYS:HB3	1.98	0.44
46:BZ:98:MET:O	46:BZ:125:LEU:HD12	2.17	0.44
47:B0:20:ARG:HD3	57:BA:2356:C:O3'	2.18	0.44
52:B5:46:CYS:SG	52:B5:47:PRO:HG2	2.57	0.44
57:BA:460:A:H2'	57:BA:461:C:O4'	2.17	0.44
57:BA:528:A:H2	57:BA:2043:C:H5'	1.81	0.44
57:BA:1204:A:N1	57:BA:1241:A:C2	2.84	0.44
57:BA:1441:G:O2'	57:BA:1442:G:H5'	2.17	0.44
57:BA:1541:G:H4'	57:BA:1542:A:H5"	1.99	0.44
57:BA:1739:U:H2'	57:BA:1739:U:O2	2.16	0.44
57:BA:1865:G:H5'	57:BA:1866:C:P	2.57	0.44
57:BA:2197:U:O2'	57:BA:2198:A:H2'	2.17	0.44
57:BA:2443:C:H2'	57:BA:2444:G:C8	2.51	0.44
57:BA:2473:U:O2	57:BA:2473:U:O4'	2.34	0.44
57:BA:2870:C:C2'	57:BA:2871:C:H5'	2.47	0.44
1:Ab:86:GLU:C	1:Ab:88:ALA:H	2.25	0.44
1:Ab:189:ASP:OD1	1:Ab:189:ASP:N	2.50	0.44
2:Ac:19:GLU:HG2	2:Ac:40:ARG:NH2	2.31	0.44
2:Ac:152:ILE:HG23	2:Ac:166:GLU:O	2.17	0.44
4:Ae:31:LEU:HD23	4:Ae:31:LEU:HA	1.87	0.44
4:Ae:54:ALA:O	4:Ae:55:VAL:C	2.61	0.44
7:Ah:21:LYS:O	7:Ah:65:TYR:OH	2.34	0.44
8:Ai:15:ALA:CB	8:Ai:65:VAL:HB	2.46	0.44
9:Aj:20:ALA:O	9:Aj:24:VAL:HG23	2.17	0.44
9:Aj:36:GLY:C	22:Aa:1123:A:H4'	2.43	0.44
12:Am:64:TRP:O	12:Am:66:LEU:HG	2.18	0.44
16:Aq:17:LYS:NZ	22:Aa:256:U:C5'	2.81	0.44
16:Aq:17:LYS:HZ1	22:Aa:256:U:C5'	2.31	0.44
18:As:29:ARG:O	18:As:30:LEU:C	2.60	0.44
19:At:31:SER:HA	19:At:34:LYS:HD2	1.98	0.44
21:Ay:81:ARG:CD	21:Ay:82:GLU:H	2.30	0.44
22:Aa:155:C:H2'	22:Aa:156:G:C8	2.47	0.44
22:Aa:660:G:H2'	22:Aa:661:G:H8	1.81	0.44
26:AC:30:VAL:CG1	26:AC:42:VAL:HG22	2.44	0.44
26:AC:31:LYS:HZ1	26:AC:183:PRO:HD3	1.83	0.44
28:AE:117:MET:O	28:AE:118:LYS:HB2	2.17	0.44
29:AF:28:ILE:O	29:AF:30:PRO:HD3	2.17	0.44
30:AG:58:GLN:O	30:AG:62:LEU:HD13	2.18	0.44
30:AG:81:LYS:O	30:AG:82:LEU:O	2.35	0.44
32:AI:71:ILE:HG22	32:AI:72:LEU:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:91:PHE:CD1	36:AP:91:PHE:N	2.86	0.44
37:AQ:18:LYS:HD2	37:AQ:18:LYS:N	2.31	0.44
38:AR:13:HIS:CE1	38:AR:15:SER:HB3	2.52	0.44
42:AV:66:ARG:HH11	42:AV:66:ARG:HG2	1.82	0.44
43:AW:31:GLU:O	43:AW:35:ILE:HG12	2.18	0.44
44:AX:63:LYS:O	44:AX:64:LYS:HG3	2.17	0.44
45:AY:28:LYS:HG2	45:AY:39:VAL:HG22	1.99	0.44
45:AY:76:CYS:SG	45:AY:77:PRO:CD	2.84	0.44
48:A1:23:LYS:O	48:A1:24:ALA:O	2.35	0.44
56:A9:1:MET:SD	57:AA:2478:A:OP2	2.76	0.44
57:AA:271(R):G:H2'	57:AA:271(S):G:C8	2.53	0.44
57:AA:1774:C:H4'	57:AA:1979:C:O2	2.17	0.44
57:AA:1937:A:C8	57:AA:1939:U:H2'	2.51	0.44
57:AA:2341:G:H2'	57:AA:2342:C:C6	2.52	0.44
57:AA:2552:U:H2'	57:AA:2554:U:H5"	1.98	0.44
58:AB:62:C:C2	58:AB:63:G:C8	3.06	0.44
1:Bb:204:ASN:HD22	1:Bb:204:ASN:C	2.26	0.44
4:Be:94:ALA:HB2	4:Be:119:LEU:HG	1.98	0.44
8:Bi:33:PHE:C	8:Bi:35:GLU:N	2.71	0.44
9:Bj:91:PRO:CB	9:Bj:94:VAL:HB	2.47	0.44
11:Bl:43:VAL:CG2	11:Bl:93:LEU:HD22	2.46	0.44
12:Bm:14:ARG:HB2	12:Bm:16:ASP:OD2	2.17	0.44
12:Bm:29:ARG:HD3	12:Bm:64:TRP:CH2	2.52	0.44
12:Bm:105:THR:O	12:Bm:106:ASN:O	2.35	0.44
15:Bp:4:ILE:CG2	15:Bp:36:ILE:HD11	2.45	0.44
16:Bq:22:LEU:HD12	16:Bq:23:VAL:N	2.32	0.44
18:Bs:37:ARG:H	18:Bs:37:ARG:HG3	1.55	0.44
21:By:27:LYS:O	21:By:31:VAL:HG23	2.18	0.44
22:Ba:80:G:N7	22:Ba:81:U:C5	2.85	0.44
22:Ba:90:U:O2'	22:Ba:91:C:H5	2.00	0.44
22:Ba:401:C:H2'	22:Ba:402:G:H8	1.82	0.44
22:Ba:594:G:H2'	22:Ba:595:G:H5'	1.99	0.44
22:Ba:627:G:H2'	22:Ba:628:G:H8	1.81	0.44
22:Ba:763:G:H2'	22:Ba:764:C:C6	2.51	0.44
22:Ba:964:A:OP1	22:Ba:1199:U:OP1	2.34	0.44
22:Ba:965:A:OP1	22:Ba:1198:G:H5"	2.17	0.44
22:Ba:980:C:H3'	22:Ba:981:U:C6	2.52	0.44
22:Ba:1300:G:O2'	22:Ba:1301:U:O5'	2.34	0.44
22:Ba:1392:G:O2'	22:Ba:1393:U:H5'	2.17	0.44
26:BC:194:ILE:HG22	26:BC:198:GLU:CD	2.42	0.44
27:BD:148:GLU:CB	27:BD:151:LYS:HD2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:65:GLY:C	28:BE:67:PHE:N	2.75	0.44
29:BF:1:MET:O	29:BF:2:LYS:C	2.60	0.44
32:BI:71:ILE:HG22	32:BI:72:LEU:N	2.32	0.44
32:BI:93:THR:OG1	32:BI:95:LYS:HB2	2.17	0.44
32:BI:111:PRO:O	32:BI:116:LEU:HD22	2.18	0.44
32:BI:119:PRO:O	32:BI:121:LYS:HB2	2.17	0.44
34:BN:21:LYS:C	34:BN:61:ARG:HB2	2.43	0.44
34:BN:91:LEU:CD2	34:BN:98:VAL:HG21	2.45	0.44
36:BP:100:LEU:O	36:BP:101:VAL:C	2.60	0.44
38:BR:14:SER:O	38:BR:15:SER:C	2.59	0.44
40:BT:19:LEU:HA	40:BT:20:PRO:HD3	1.83	0.44
44:BX:10:ALA:HB1	44:BX:11:PRO:CD	2.47	0.44
44:BX:55:ASN:HB2	44:BX:80:ILE:CD1	2.47	0.44
46:BZ:67:LEU:CD1	46:BZ:68:PRO:HD2	2.47	0.44
49:B2:9:GLN:O	49:B2:12:GLU:HB2	2.17	0.44
57:BA:225:A:O2'	57:BA:257:A:H4'	2.16	0.44
57:BA:401:A:H2'	57:BA:402:A:C8	2.52	0.44
57:BA:579:G:H2'	57:BA:580:C:H6	1.78	0.44
57:BA:963:U:H2'	57:BA:964:C:H6	1.81	0.44
57:BA:1490:A:H5'	57:BA:1494:A:N6	2.32	0.44
57:BA:1889:A:N1	57:BA:2234:G:H1'	2.32	0.44
57:BA:2174:C:O2'	57:BA:2175:C:H5'	2.17	0.44
3:Ad:134:ASP:OD2	22:Aa:619:U:N3	2.50	0.44
6:Ag:111:ARG:CD	6:Ag:123:GLU:HB2	2.45	0.44
6:Ag:151:TYR:OH	10:Ak:54:ARG:HD2	2.18	0.44
8:Ai:124:GLN:HG3	22:Aa:1342:C:H1'	1.99	0.44
10:Ak:59:TYR:CE1	10:Ak:63:LEU:HD21	2.52	0.44
12:Am:79:LYS:O	12:Am:79:LYS:HD2	2.17	0.44
16:Aq:63:ARG:HG2	16:Aq:64:PRO:N	2.32	0.44
18:As:16:LEU:H	18:As:16:LEU:CD1	2.23	0.44
20:Au:12:LYS:CB	20:Au:22:ARG:HD2	2.47	0.44
22:Aa:186:C:O2'	22:Aa:187:C:H5'	2.17	0.44
22:Aa:343:U:O2'	22:Aa:344:A:H2'	2.16	0.44
22:Aa:475:G:H2'	22:Aa:476:G:C8	2.52	0.44
22:Aa:902:G:H2'	22:Aa:903:G:H8	1.82	0.44
22:Aa:1053:G:O2'	22:Aa:1199:U:H5	1.99	0.44
22:Aa:1381:U:C5	22:Aa:1382:C:C4	3.05	0.44
22:Aa:1463:C:H2'	22:Aa:1464:G:C8	2.52	0.44
25:Aw:42:G:O2'	25:Aw:43:A:H5'	2.18	0.44
29:AF:63:LYS:HE3	29:AF:67:GLN:CB	2.47	0.44
31:AH:149:ARG:HA	31:AH:162:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:1:MET:HE3	32:AI:23:PRO:HA	1.99	0.44
34:AN:58:ASP:O	34:AN:59:LYS:HB2	2.16	0.44
36:AP:71:VAL:CG1	36:AP:72:PRO:CD	2.95	0.44
39:AS:24:LEU:HB3	39:AS:85:VAL:HB	1.99	0.44
41:AU:54:LYS:NZ	57:AA:994:C:OP2	2.50	0.44
41:AU:83:LEU:HD13	41:AU:113:ALA:HB2	1.99	0.44
41:AU:95:LEU:HD12	42:AV:11:GLN:HB2	1.99	0.44
43:AW:20:VAL:CG2	43:AW:21:VAL:N	2.81	0.44
44:AX:23:GLU:O	44:AX:25:LYS:N	2.41	0.44
46:AZ:92:SER:HB2	46:AZ:94:GLU:HG2	1.99	0.44
48:A1:73:LEU:HD22	48:A1:73:LEU:HA	1.73	0.44
49:A2:21:LEU:HD23	49:A2:21:LEU:HA	1.87	0.44
49:A2:65:ASN:C	49:A2:67:LYS:N	2.74	0.44
53:A6:43:CYS:O	53:A6:44:ARG:NH1	2.50	0.44
57:AA:437:G:H2'	57:AA:438:G:C8	2.53	0.44
57:AA:654(A):G:O2'	57:AA:654(B):C:H5'	2.18	0.44
57:AA:718:A:C2'	57:AA:719:C:H5'	2.48	0.44
57:AA:1210:A:H5"	57:AA:1212:G:C4'	2.47	0.44
57:AA:1602:U:H3'	57:AA:1603:A:H5"	1.97	0.44
57:AA:1817:G:C2'	57:AA:1818:U:H5'	2.46	0.44
57:AA:1917:U:C2'	57:AA:1918:A:H5'	2.46	0.44
57:AA:1948:G:C2'	57:AA:1949:G:H5'	2.47	0.44
57:AA:2097:C:O2'	57:AA:2098:U:H5'	2.17	0.44
57:AA:2287:A:C2	57:AA:2289:G:C8	3.06	0.44
57:AA:2332:U:O2'	57:AA:2333:A:H5'	2.17	0.44
58:AB:28:C:H2'	58:AB:29:A:C8	2.52	0.44
1:Bb:51:LEU:O	1:Bb:55:PHE:HD2	2.01	0.44
2:Bc:16:ARG:HB2	2:Bc:16:ARG:CZ	2.47	0.44
2:Bc:75:VAL:HG12	2:Bc:75:VAL:O	2.16	0.44
2:Bc:152:ILE:HG23	2:Bc:166:GLU:O	2.17	0.44
2:Bc:163:ALA:HB2	22:Ba:1056:U:C5'	2.48	0.44
2:Bc:173:VAL:N	2:Bc:174:PRO:HD3	2.32	0.44
3:Bd:96:LEU:HB3	3:Bd:139:ARG:NH2	2.25	0.44
3:Bd:127:THR:OG1	3:Bd:130:GLY:O	2.32	0.44
4:Be:6:PHE:HD1	4:Be:63:ARG:HH12	1.66	0.44
4:Be:91:LEU:N	4:Be:91:LEU:HD22	2.33	0.44
6:Bg:31:MET:HE1	22:Ba:1374:A:H1'	1.98	0.44
10:Bk:33:THR:HB	10:Bk:37:GLY:C	2.43	0.44
13:Bn:42:ILE:HG21	22:Ba:1202:G:C2	2.52	0.44
16:Bq:18:THR:HG22	16:Bq:19:VAL:N	2.32	0.44
19:Bt:26:ASN:ND2	19:Bt:26:ASN:H	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:151:A:H2'	22:Ba:152:A:H5'	1.99	0.44
22:Ba:526:C:C5	22:Ba:527:G:H1'	2.52	0.44
22:Ba:1305:G:N2	22:Ba:1331:G:O2'	2.46	0.44
22:Ba:1381:U:C5	22:Ba:1382:C:C4	3.06	0.44
25:Bw:74:C:O2'	25:Bw:75:C:H5'	2.16	0.44
26:BC:48:LEU:HA	26:BC:209:PHE:O	2.17	0.44
27:BD:65:ILE:HD13	27:BD:65:ILE:O	2.17	0.44
27:BD:96:HIS:HA	27:BD:102:LYS:HB3	1.99	0.44
27:BD:262:ARG:HD3	57:BA:2086:U:OP1	2.17	0.44
28:BE:116:VAL:HG22	28:BE:122:PHE:CG	2.53	0.44
29:BF:83:PHE:O	29:BF:84:VAL:HB	2.16	0.44
30:BG:27:ASN:HB3	30:BG:29:TRP:HD1	1.82	0.44
31:BH:7:LEU:HA	31:BH:8:PRO:HD3	1.72	0.44
31:BH:106:THR:HG22	31:BH:112:PRO:CB	2.47	0.44
32:BI:44:LEU:O	32:BI:47:LEU:HB3	2.17	0.44
32:BI:94:ALA:O	32:BI:98:ALA:HB3	2.17	0.44
33:BJ:94:VAL:O	33:BJ:96:PHE:N	2.51	0.44
34:BN:123:TYR:OH	34:BN:130:HIS:CE1	2.70	0.44
35:BO:90:GLN:O	35:BO:91:LEU:CB	2.62	0.44
35:BO:103:ALA:C	35:BO:105:GLU:H	2.25	0.44
36:BP:16:ARG:CA	36:BP:16:ARG:NH1	2.79	0.44
36:BP:71:VAL:CG1	36:BP:72:PRO:CD	2.92	0.44
37:BQ:125:LEU:HD23	37:BQ:125:LEU:HA	1.81	0.44
39:BS:42:ASP:C	39:BS:44:LYS:N	2.74	0.44
39:BS:70:GLY:C	39:BS:72:ALA:N	2.76	0.44
42:BV:5:VAL:HG21	42:BV:35:LEU:CG	2.47	0.44
44:BX:12:VAL:CG1	44:BX:27:THR:OG1	2.65	0.44
45:BY:20:TYR:CZ	45:BY:42:VAL:HA	2.52	0.44
46:BZ:53:ILE:HD12	46:BZ:53:ILE:C	2.42	0.44
46:BZ:108:PRO:HB3	46:BZ:144:LEU:HB2	1.98	0.44
49:B2:22:GLU:C	49:B2:24:LEU:N	2.75	0.44
57:BA:548:A:H2'	57:BA:548:A:N3	2.31	0.44
57:BA:679:C:H2'	57:BA:680:G:H8	1.82	0.44
57:BA:1570:A:H2'	57:BA:1571:A:C8	2.52	0.44
57:BA:1582:C:O2'	57:BA:1586:A:C8	2.67	0.44
57:BA:1591:G:C6	57:BA:1592:C:C4	3.06	0.44
57:BA:1665:A:O2'	57:BA:1666:G:H5'	2.17	0.44
57:BA:1710:C:O2'	57:BA:1711:C:H5'	2.16	0.44
57:BA:2262:U:H2'	57:BA:2263:C:C6	2.51	0.44
57:BA:2526:G:H5'	57:BA:2742:C:O2'	2.18	0.44
1:Ab:22:LYS:HE2	1:Ab:40:HIS:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:54:THR:HG21	1:Ab:201:ILE:HD11	2.00	0.44
4:Ae:10:MET:CA	4:Ae:32:VAL:HG22	2.44	0.44
6:Ag:79:ARG:CD	6:Ag:82:GLY:H	2.20	0.44
7:Ah:73:ASP:C	7:Ah:75:ARG:H	2.24	0.44
7:Ah:112:LEU:HB3	7:Ah:133:LEU:HA	2.00	0.44
11:Al:41:ARG:NH1	11:Al:41:ARG:CB	2.76	0.44
12:Am:33:ALA:HA	12:Am:59:TYR:HE2	1.82	0.44
14:Ao:76:GLU:O	14:Ao:78:TYR:N	2.51	0.44
18:As:70:LYS:HG2	22:Aa:1320:C:H5'	1.98	0.44
20:Au:6:ARG:O	20:Au:7:ARG:HG3	2.18	0.44
22:Aa:61:G:H2'	22:Aa:62:U:O4'	2.17	0.44
22:Aa:93:G:O2'	22:Aa:96:U:H5'	2.16	0.44
22:Aa:269:C:H2'	22:Aa:270:A:H8	1.82	0.44
22:Aa:551:U:H2'	22:Aa:552:U:H6	1.80	0.44
22:Aa:577:G:O2'	22:Aa:578:C:H5'	2.17	0.44
22:Aa:781:A:C2'	22:Aa:782:A:H5'	2.47	0.44
22:Aa:1305:G:N2	22:Aa:1331:G:O2'	2.45	0.44
22:Aa:1457:G:H2'	22:Aa:1458:G:C8	2.52	0.44
24:Av:28:C:O2	24:Av:43:A:C2	2.70	0.44
24:Av:71:C:H5"	24:Av:71:C:C6	2.53	0.44
25:Aw:5:G:H2'	25:Aw:6:G:O4'	2.18	0.44
27:AD:132:PRO:O	27:AD:133:LEU:C	2.59	0.44
27:AD:206:LEU:HD23	27:AD:211:ARG:NH1	2.32	0.44
28:AE:23:VAL:HA	28:AE:184:VAL:O	2.18	0.44
32:AI:83:ALA:CB	32:AI:88:ILE:HA	2.48	0.44
34:AN:56:ASN:HA	34:AN:124:ALA:C	2.43	0.44
35:AO:49:ARG:HD3	35:AO:49:ARG:N	2.32	0.44
35:AO:77:ILE:HD11	40:AT:72:VAL:CG1	2.48	0.44
37:AQ:82:ARG:HD2	47:A0:4:LYS:HE3	1.99	0.44
38:AR:11:ASN:OD1	38:AR:11:ASN:C	2.60	0.44
39:AS:54:LEU:HD11	39:AS:57:LYS:HE3	2.00	0.44
40:AT:10:VAL:O	40:AT:11:GLU:C	2.60	0.44
40:AT:26:ASP:O	40:AT:26:ASP:CG	2.61	0.44
40:AT:125:ARG:C	40:AT:127:ALA:H	2.25	0.44
42:AV:19:LYS:NZ	42:AV:20:LEU:HB2	2.31	0.44
44:AX:29:TRP:CZ2	44:AX:76:ARG:NH2	2.85	0.44
45:AY:32:PRO:C	45:AY:35:TYR:H	2.24	0.44
46:AZ:9:TYR:CD2	46:AZ:35:ARG:NH2	2.85	0.44
46:AZ:28:MET:HE2	46:AZ:59:LEU:CD1	2.47	0.44
46:AZ:29:TYR:O	46:AZ:30:ASN:HB3	2.17	0.44
46:AZ:30:ASN:O	46:AZ:31:ARG:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AZ:42:VAL:HG13	46:AZ:43:GLU:N	2.27	0.44
47:A0:29:GLN:HG2	57:AA:923:C:H4'	2.00	0.44
48:A1:66:HIS:HB3	48:A1:69:LYS:HB3	1.99	0.44
48:A1:67:ILE:HB	48:A1:68:PRO:CD	2.48	0.44
48:A1:82:LEU:C	48:A1:83:GLU:CD	2.86	0.44
50:A3:52:HIS:CG	58:AB:83:G:H4'	2.52	0.44
51:A4:5:ILE:N	51:A4:5:ILE:CD1	2.80	0.44
51:A4:39:CYS:O	51:A4:40:HIS:CG	2.71	0.44
57:AA:7:G:N2	57:AA:2897:U:H3	2.15	0.44
57:AA:201:C:C2'	57:AA:202:U:H5'	2.48	0.44
57:AA:224:G:H2'	57:AA:225:A:O4'	2.18	0.44
57:AA:846:C:N3	57:AA:930:U:C4	2.86	0.44
57:AA:1028:A:N6	57:AA:1125:G:H2'	2.32	0.44
57:AA:1308:A:H2'	57:AA:1309:G:O4'	2.17	0.44
57:AA:1429:G:H2'	57:AA:1430:C:H6	1.82	0.44
57:AA:1804:C:O5'	57:AA:1804:C:H6	2.00	0.44
57:AA:1833:U:O2'	57:AA:1969:A:N1	2.47	0.44
57:AA:2123:G:O2'	57:AA:2124:G:H5'	2.17	0.44
57:AA:2464:C:O2'	57:AA:2465:C:O5'	2.36	0.44
57:AA:2761:G:C2'	57:AA:2762:G:H5"	2.47	0.44
1:Bb:83:MET:C	1:Bb:85:ALA:N	2.76	0.44
5:Bf:45:LEU:HD11	5:Bf:57:GLN:OE1	2.18	0.44
6:Bg:12:LEU:HD23	6:Bg:13:GLN:H	1.82	0.44
6:Bg:18:TYR:CE2	6:Bg:59:LEU:HB2	2.52	0.44
6:Bg:23:VAL:CG1	6:Bg:43:PHE:HE2	2.30	0.44
7:Bh:61:VAL:HG12	7:Bh:63:LEU:CD1	2.44	0.44
8:Bi:43:ALA:C	8:Bi:45:ALA:N	2.75	0.44
8:Bi:65:VAL:HG21	8:Bi:73:GLN:CB	2.47	0.44
9:Bj:40:LEU:HD22	9:Bj:41:PRO:HD2	1.95	0.44
10:Bk:121:PRO:C	10:Bk:122:LYS:O	2.58	0.44
11:Bl:41:ARG:HH12	11:Bl:57:LYS:HZ1	1.65	0.44
12:Bm:3:ARG:O	51:B4:34:GLU:HG3	2.17	0.44
20:Bu:12:LYS:CB	20:Bu:22:ARG:HD2	2.47	0.44
22:Ba:135:C:H2'	22:Ba:136:C:H5'	1.99	0.44
22:Ba:597:G:H2'	22:Ba:598:U:H5'	1.98	0.44
22:Ba:688:G:H2'	22:Ba:689:C:C6	2.51	0.44
22:Ba:799:G:C2'	22:Ba:800:G:H5'	2.47	0.44
22:Ba:962:C:H2'	22:Ba:963:G:C8	2.47	0.44
25:Bw:62:C:C5'	26:BC:53:ARG:HG3	2.48	0.44
27:BD:35:LYS:HG2	27:BD:63:ARG:HA	1.99	0.44
27:BD:65:ILE:HG12	27:BD:66:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:70:TRP:HB3	27:BD:190:TYR:CE1	2.53	0.44
28:BE:93:VAL:C	28:BE:95:ILE:H	2.25	0.44
34:BN:18:ALA:CB	34:BN:21:LYS:CB	2.96	0.44
34:BN:56:ASN:HA	34:BN:124:ALA:C	2.42	0.44
37:BQ:134:ARG:HA	37:BQ:137:TYR:HD1	1.80	0.44
38:BR:34:ILE:HG22	38:BR:35:THR:N	2.31	0.44
42:BV:9:GLY:O	42:BV:10:LYS:HG3	2.18	0.44
42:BV:35:LEU:C	42:BV:37:VAL:N	2.68	0.44
46:BZ:24:LEU:CD2	46:BZ:24:LEU:C	2.91	0.44
46:BZ:68:PRO:HG3	46:BZ:91:LEU:O	2.18	0.44
50:B3:31:LEU:C	50:B3:33:GLN:H	2.25	0.44
52:B5:35:GLU:O	52:B5:36:CYS:CB	2.64	0.44
57:BA:7:G:N2	57:BA:2897:U:H3	2.16	0.44
57:BA:224:G:H2'	57:BA:225:A:O4'	2.17	0.44
57:BA:1215:G:O2'	57:BA:1216:G:H5'	2.18	0.44
57:BA:1344:G:H4'	57:BA:1384:A:N7	2.32	0.44
57:BA:1407:C:O2	57:BA:1407:C:H2'	2.17	0.44
57:BA:1665:A:C2'	57:BA:1666:G:H5'	2.47	0.44
57:BA:1947:C:C2'	57:BA:1948:G:C5'	2.94	0.44
57:BA:2024:G:O2'	57:BA:2025:C:H5'	2.17	0.44
57:BA:2165:G:H2'	57:BA:2166:G:O4'	2.18	0.44
57:BA:2696:U:H2'	57:BA:2697:G:H8	1.83	0.44
57:BA:2718:G:H2'	57:BA:2719:G:O4'	2.18	0.44
57:BA:2761:G:C2'	57:BA:2762:G:H5"	2.48	0.44
3:Ad:11:LEU:C	3:Ad:13:ARG:N	2.73	0.44
3:Ad:79:PHE:HD1	3:Ad:207:TYR:CD1	2.35	0.44
3:Ad:204:ILE:HG22	3:Ad:204:ILE:O	2.17	0.44
5:Af:17:SER:C	5:Af:21:LEU:HD23	2.43	0.44
6:Ag:12:LEU:HD23	6:Ag:13:GLN:H	1.81	0.44
9:Aj:6:ILE:HD11	9:Aj:72:VAL:CG2	2.47	0.44
9:Aj:28:ARG:HH11	9:Aj:28:ARG:HG2	1.82	0.44
10:Ak:126:ARG:O	10:Ak:127:LYS:C	2.60	0.44
12:Am:33:ALA:HA	12:Am:59:TYR:CE2	2.52	0.44
14:Ao:34:LEU:O	14:Ao:35:ARG:C	2.61	0.44
16:Aq:64:PRO:HB2	22:Aa:264:U:O2'	2.17	0.44
18:As:77:THR:HG21	22:Aa:1221:G:H4'	1.98	0.44
19:At:23:ARG:CA	19:At:26:ASN:HD21	2.31	0.44
21:Ay:49:ASP:HB3	21:Ay:51:TYR:HE2	1.82	0.44
21:Ay:54:LYS:HG2	21:Ay:61:ARG:NH1	2.32	0.44
22:Aa:918:A:O2'	22:Aa:919:A:H5'	2.17	0.44
22:Aa:949:A:C2	22:Aa:1233:G:N3	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:1015:A:H2'	22:Aa:1016:A:C8	2.53	0.44
22:Aa:1082:G:C2'	22:Aa:1083:U:H5'	2.48	0.44
22:Aa:1258:G:H2'	22:Aa:1259:C:H6	1.81	0.44
22:Aa:1283:G:O2'	22:Aa:1284:C:H5'	2.18	0.44
22:Aa:1287:A:H2	22:Aa:1353:G:N3	2.15	0.44
22:Aa:1406:U:O2'	22:Aa:1407:C:H5'	2.18	0.44
22:Aa:1444:C:H2'	22:Aa:1445:C:C6	2.53	0.44
28:AE:93:VAL:O	28:AE:95:ILE:N	2.51	0.44
28:AE:119:ARG:HD3	28:AE:119:ARG:O	2.18	0.44
31:AH:41:MET:CE	31:AH:53:GLU:H	2.30	0.44
31:AH:136:ILE:HG22	31:AH:136:ILE:O	2.18	0.44
32:AI:127:VAL:CG1	32:AI:139:GLN:HA	2.31	0.44
32:AI:129:THR:HG23	32:AI:136:VAL:C	2.41	0.44
34:AN:118:LYS:O	34:AN:121:LYS:HE3	2.17	0.44
35:AO:107:ARG:NH1	40:AT:35:LYS:HB2	2.32	0.44
36:AP:17:LYS:CG	36:AP:19:VAL:CG2	2.95	0.44
36:AP:105:LEU:O	36:AP:106:LEU:CB	2.65	0.44
36:AP:110:TYR:CE2	36:AP:111:ARG:NH2	2.86	0.44
39:AS:29:PHE:CE1	58:AB:7:G:C4'	3.01	0.44
40:AT:64:ARG:NH1	40:AT:103:ARG:HA	2.32	0.44
44:AX:43:VAL:O	44:AX:44:GLU:C	2.60	0.44
45:AY:52:SER:O	45:AY:54:LYS:N	2.49	0.44
51:A4:12:ALA:HB1	51:A4:29:PRO:CA	2.33	0.44
55:A8:37:SER:C	55:A8:39:LYS:N	2.71	0.44
57:AA:173:G:H2'	57:AA:173:G:N3	2.32	0.44
57:AA:271(X):G:C3'	57:AA:271(Y):U:H5"	2.47	0.44
57:AA:297:C:H2'	57:AA:298:G:O4'	2.18	0.44
57:AA:435:C:H2'	57:AA:436:C:H5'	1.98	0.44
57:AA:729:G:H2'	57:AA:1775:U:O2	2.17	0.44
57:AA:1039:G:C6	57:AA:1040:C:N4	2.86	0.44
57:AA:1131:G:O2'	57:AA:1132:A:H8	2.01	0.44
57:AA:1310:G:H2'	57:AA:1311:G:H5'	1.99	0.44
57:AA:1357:U:O2'	57:AA:1358:G:H5'	2.18	0.44
57:AA:1400:G:H2'	57:AA:1401:G:C8	2.53	0.44
57:AA:1542:A:C8	57:AA:1544:A:H5"	2.53	0.44
57:AA:2628:C:H1'	57:AA:2781:A:H2'	1.99	0.44
57:AA:2769:C:H2'	57:AA:2770:G:O4'	2.17	0.44
57:AA:2801:A:O2'	57:AA:2895:U:H5'	2.17	0.44
57:AA:2821:A:H2'	57:AA:2822:G:C8	2.52	0.44
58:AB:30:C:H4'	58:AB:58:A:H2	1.83	0.44
1:Bb:18:GLY:N	1:Bb:42:ILE:CG2	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:98:LEU:CB	1:Bb:101:MET:HE3	2.41	0.44
1:Bb:224:GLN:CB	1:Bb:229:VAL:HG22	2.47	0.44
2:Bc:116:VAL:O	2:Bc:119:ARG:HB3	2.16	0.44
4:Be:112:LEU:C	4:Be:114:GLY:N	2.71	0.44
7:Bh:49:GLU:O	7:Bh:51:VAL:HG13	2.18	0.44
7:Bh:86:ILE:HG12	7:Bh:135:CYS:HA	2.00	0.44
12:Bm:22:ILE:N	12:Bm:22:ILE:HD12	2.32	0.44
16:Bq:45:HIS:HB2	16:Bq:65:ILE:HD13	1.99	0.44
19:Bt:26:ASN:HB2	19:Bt:71:THR:HG23	1.98	0.44
22:Ba:175:C:H2'	22:Ba:176:C:H6	1.83	0.44
22:Ba:502:G:C6	22:Ba:503:C:N3	2.86	0.44
22:Ba:655:A:O2'	22:Ba:656:C:H5'	2.17	0.44
22:Ba:660:G:H2'	22:Ba:661:G:H8	1.82	0.44
22:Ba:781:A:C3'	22:Ba:782:A:H5'	2.47	0.44
26:BC:3:LYS:O	26:BC:4:HIS:HD2	2.00	0.44
27:BD:118:VAL:CG2	27:BD:119:ALA:N	2.81	0.44
27:BD:240:ALA:HB1	27:BD:241:PRO:CD	2.48	0.44
28:BE:23:VAL:HA	28:BE:184:VAL:O	2.18	0.44
28:BE:34:VAL:HG11	28:BE:78:LEU:HD22	1.99	0.44
29:BF:4:VAL:HA	29:BF:19:GLU:CB	2.47	0.44
30:BG:71:THR:HG22	57:BA:2312:U:H4'	1.95	0.44
33:BJ:57:THR:O	33:BJ:58:LEU:O	2.35	0.44
34:BN:67:LEU:O	34:BN:68:GLU:HB2	2.17	0.44
35:BO:5:GLN:NE2	35:BO:20:MET:CE	2.81	0.44
35:BO:32:TYR:CD1	35:BO:32:TYR:N	2.85	0.44
36:BP:60:MET:O	57:BA:2393:A:O4'	2.35	0.44
40:BT:34:VAL:HG22	40:BT:39:ARG:HA	2.00	0.44
43:BW:110:LYS:C	43:BW:111:HIS:ND1	2.76	0.44
46:BZ:103:ARG:HD2	46:BZ:136:PHE:CB	2.39	0.44
46:BZ:121:HIS:HB3	46:BZ:171:ILE:HD12	1.98	0.44
46:BZ:151:HIS:HB2	46:BZ:152:ALA:H	1.35	0.44
49:B2:47:ASN:O	49:B2:48:HIS:C	2.60	0.44
53:B6:27:LYS:HG3	57:BA:2285:C:OP2	2.17	0.44
54:B7:40:TRP:CZ3	57:BA:459:U:H4'	2.52	0.44
57:BA:271(C):C:H2'	57:BA:271(D):G:H8	1.81	0.44
57:BA:302:C:O2'	57:BA:303:U:H5'	2.18	0.44
57:BA:914:C:H2'	57:BA:915:C:C5'	2.42	0.44
57:BA:1048:A:N6	57:BA:1106:A:H62	2.15	0.44
57:BA:2517:C:C4	57:BA:2542:A:C6	3.05	0.44
57:BA:2795:G:N2	57:BA:2796:U:H2'	2.33	0.44
57:BA:2892:A:N7	57:BA:2893:G:H1'	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BB:28:C:H2'	58:BB:29:A:O4'	2.18	0.44
1:Ab:167:PRO:CG	1:Ab:188:ALA:HB2	2.44	0.44
4:Ae:67:VAL:O	4:Ae:69:VAL:HG23	2.18	0.44
4:Ae:84:PHE:CE2	4:Ae:133:TYR:HD1	2.34	0.44
5:Af:37:VAL:HG12	5:Af:38:GLU:H	1.83	0.44
6:Ag:39:ALA:O	6:Ag:40:ALA:C	2.61	0.44
6:Ag:106:GLN:O	6:Ag:110:GLN:HG3	2.18	0.44
6:Ag:113:GLU:HB3	6:Ag:118:VAL:CG2	2.47	0.44
7:Ah:1:MET:HE2	7:Ah:1:MET:N	2.23	0.44
7:Ah:20:TYR:HD1	7:Ah:65:TYR:HD2	1.66	0.44
10:Ak:48:ILE:HG22	10:Ak:49:GLY:N	2.33	0.44
10:Ak:63:LEU:H	10:Ak:63:LEU:CD2	2.30	0.44
15:Ap:52:ASP:OD2	15:Ap:54:GLU:HB2	2.18	0.44
17:Ar:61:LYS:HE2	22:Aa:836:G:OP1	2.18	0.44
22:Aa:59:A:H5'	22:Aa:60:A:H5'	2.00	0.44
22:Aa:244:U:C6	22:Aa:894:G:N2	2.86	0.44
22:Aa:313:A:H2'	22:Aa:314:C:C6	2.52	0.44
22:Aa:745:C:OP1	22:Aa:851:G:O2'	2.36	0.44
22:Aa:760:G:H2'	22:Aa:761:G:C5'	2.48	0.44
22:Aa:792:A:H4'	22:Aa:793:U:O5'	2.18	0.44
22:Aa:1321:C:H3'	22:Aa:1322:C:H5"	1.99	0.44
22:Aa:1442(A):G:N2	40:AT:119:LYS:CB	2.77	0.44
23:Ax:16:A:H61	24:Av:36:U:H3	1.66	0.44
29:AF:101:LEU:HD12	29:AF:102:PRO:CD	2.47	0.44
29:AF:169:ASN:HB2	57:AA:322:A:P	2.57	0.44
30:AG:71:THR:N	30:AG:89:GLY:O	2.45	0.44
30:AG:109:VAL:HG13	30:AG:113:ARG:CD	2.46	0.44
33:AJ:58:LEU:HA	33:AJ:82:PHE:CB	2.48	0.44
34:AN:132:ALA:O	34:AN:133:GLN:CB	2.65	0.44
36:AP:35:HIS:N	57:AA:1190:G:H5'	2.27	0.44
36:AP:48:PRO:O	36:AP:50:ARG:N	2.51	0.44
37:AQ:2:LEU:CD2	37:AQ:47:ILE:HG21	2.48	0.44
38:AR:13:HIS:CE1	38:AR:16:HIS:H	2.35	0.44
38:AR:29:LEU:HB3	38:AR:75:LEU:HD11	1.99	0.44
40:AT:57:PHE:O	40:AT:58:ASN:C	2.60	0.44
40:AT:89:VAL:HG21	40:AT:91:ARG:CZ	2.48	0.44
43:AW:29:LEU:HD11	43:AW:33:ARG:HE	1.83	0.44
44:AX:37:THR:CG2	57:AA:143:G:H1'	2.46	0.44
45:AY:4:LYS:CG	45:AY:5:MET:N	2.81	0.44
46:AZ:34:ASN:HD22	46:AZ:35:ARG:N	2.15	0.44
51:A4:2:LYS:HD3	58:AB:44:G:OP1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:A5:40:LYS:HD3	52:A5:46:CYS:HB3	1.99	0.44
55:A8:30:ARG:NH2	57:AA:2419:U:O4	2.51	0.44
57:AA:488:G:H1'	57:AA:492:A:H62	1.83	0.44
57:AA:1432:C:H2'	57:AA:1433:U:O4'	2.17	0.44
57:AA:1889:A:H1'	57:AA:2087:G:O4'	2.16	0.44
57:AA:2262:U:H2'	57:AA:2263:C:H6	1.82	0.44
1:Bb:209:ARG:HD3	1:Bb:239:VAL:CG1	2.48	0.44
2:Bc:22:TRP:CZ3	2:Bc:32:LEU:HB3	2.53	0.44
2:Bc:77:ILE:HG22	2:Bc:81:GLY:HA2	2.00	0.44
3:Bd:107:ARG:HH11	3:Bd:107:ARG:HG2	1.83	0.44
7:Bh:29:SER:O	7:Bh:32:LYS:N	2.50	0.44
7:Bh:97:VAL:HG12	22:Ba:600:C:OP1	2.18	0.44
8:Bi:18:PHE:CD1	8:Bi:62:TYR:CD2	3.05	0.44
9:Bj:28:ARG:HG2	9:Bj:28:ARG:HH11	1.82	0.44
9:Bj:84:GLN:O	9:Bj:88:LEU:CB	2.66	0.44
11:Bl:117:ARG:HB3	11:Bl:122:THR:HB	2.00	0.44
21:By:81:ARG:NH1	22:Ba:1054:C:N4	2.66	0.44
22:Ba:14:U:O2	22:Ba:17:U:H5	2.01	0.44
22:Ba:372:C:H4'	22:Ba:373:A:OP1	2.17	0.44
22:Ba:674:G:H2'	22:Ba:675:A:C8	2.48	0.44
22:Ba:781:A:C2'	22:Ba:782:A:H5'	2.47	0.44
22:Ba:1441:G:H5"	22:Ba:1442:G:H5'	2.00	0.44
26:BC:26:ALA:C	26:BC:28:ARG:N	2.75	0.44
31:BH:89:ILE:CG1	31:BH:129:THR:HA	2.46	0.44
32:BI:102:SER:HA	32:BI:107:VAL:O	2.17	0.44
34:BN:57:ALA:HB2	34:BN:123:TYR:O	2.17	0.44
36:BP:48:PRO:O	36:BP:50:ARG:N	2.50	0.44
39:BS:35:ILE:O	39:BS:35:ILE:HG12	2.17	0.44
40:BT:29:ARG:HG2	40:BT:86:ILE:CG2	2.48	0.44
44:BX:52:VAL:HB	44:BX:82:GLN:HG3	1.99	0.44
46:BZ:17:ALA:O	46:BZ:18:LEU:C	2.59	0.44
46:BZ:57:ILE:HB	46:BZ:69:THR:OG1	2.18	0.44
47:B0:36:ILE:HD12	47:B0:36:ILE:C	2.43	0.44
48:B1:3:LYS:O	48:B1:12:PRO:HD3	2.17	0.44
53:B6:19:ARG:O	53:B6:20:ASN:O	2.35	0.44
53:B6:29:ASN:O	53:B6:30:THR:C	2.59	0.44
55:B8:56:GLU:C	55:B8:58:ILE:H	2.24	0.44
56:B9:11:CYS:SG	56:B9:12:ASP:N	2.91	0.44
57:BA:475:U:C6	57:BA:509:C:N4	2.86	0.44
57:BA:1310:G:C2'	57:BA:1311:G:H5'	2.46	0.44
57:BA:1722:A:N1	57:BA:1740:G:H8	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2011:U:H2'	57:BA:2012:G:H5'	1.99	0.44
57:BA:2041:U:H2'	57:BA:2042:A:H8	1.81	0.44
57:BA:2164:C:H2'	57:BA:2165:G:H5'	2.00	0.44
57:BA:2262:U:H2'	57:BA:2263:C:H6	1.82	0.44
57:BA:2553:G:H2'	57:BA:2554:U:O4'	2.17	0.44
1:Ab:95:GLN:NE2	1:Ab:147:LYS:CE	2.80	0.44
1:Ab:140:HIS:HA	1:Ab:143:GLU:HG3	1.99	0.44
1:Ab:194:PRO:O	1:Ab:196:LEU:N	2.50	0.44
2:Ac:14:ILE:CG1	2:Ac:15:THR:N	2.76	0.44
2:Ac:92:ALA:HB2	2:Ac:99:VAL:HG22	2.00	0.44
2:Ac:115:LEU:C	2:Ac:117:ALA:N	2.72	0.44
2:Ac:141:VAL:HG12	2:Ac:141:VAL:O	2.18	0.44
3:Ad:9:CYS:SG	3:Ad:31:CYS:C	3.00	0.44
3:Ad:17:VAL:CG1	3:Ad:18:LYS:H	2.31	0.44
3:Ad:135:LEU:HD23	22:Aa:620:C:N1	2.32	0.44
6:Ag:85:TYR:HD1	6:Ag:154:TYR:CE1	2.34	0.44
7:Ah:29:SER:HB3	7:Ah:32:LYS:HD2	1.99	0.44
9:Aj:50:ILE:CD1	9:Aj:50:ILE:N	2.70	0.44
12:Am:37:THR:O	12:Am:39:ILE:HG13	2.17	0.44
14:Ao:27:VAL:C	14:Ao:29:VAL:N	2.74	0.44
14:Ao:66:LEU:O	14:Ao:69:TYR:HB3	2.17	0.44
14:Ao:87:ILE:HB	14:Ao:88:ARG:H	1.70	0.44
19:At:26:ASN:ND2	19:At:26:ASN:H	2.15	0.44
21:Ay:78:VAL:O	21:Ay:78:VAL:HG13	2.17	0.44
22:Aa:552:U:O2'	22:Aa:553:A:H5'	2.18	0.44
22:Aa:929:G:C6	22:Aa:930:C:C4	3.06	0.44
22:Aa:965:A:C2	22:Aa:969:A:C2	3.06	0.44
22:Aa:981:U:H2'	22:Aa:982:U:C5	2.53	0.44
22:Aa:1231:G:O2'	22:Aa:1232:U:H5'	2.18	0.44
22:Aa:1326:C:H2'	22:Aa:1327:C:H6	1.78	0.44
22:Aa:1435:G:H8	22:Aa:1435:G:O5'	2.01	0.44
22:Aa:1442(B):A:C4	40:AT:118:ARG:NH2	2.86	0.44
22:Aa:1463:C:H2'	22:Aa:1464:G:H8	1.81	0.44
26:AC:34:ALA:HB1	26:AC:40:GLU:CG	2.46	0.44
27:AD:47:GLY:CA	57:AA:773:U:H4'	2.47	0.44
27:AD:80:ALA:HB2	27:AD:96:HIS:CD2	2.53	0.44
27:AD:121:PRO:HA	27:AD:135:PHE:HD1	1.82	0.44
29:AF:109:GLY:O	29:AF:110:LEU:C	2.61	0.44
32:AI:76:THR:HB	32:AI:139:GLN:HE22	1.83	0.44
32:AI:127:VAL:O	32:AI:128:LEU:HD13	2.17	0.44
33:AJ:22:GLY:C	33:AJ:88:ALA:HA	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AN:18:ALA:CB	34:AN:21:LYS:CB	2.95	0.44
34:AN:25:ARG:HA	57:AA:1012:U:O4	2.17	0.44
34:AN:66:LYS:HZ1	57:AA:1140:C:H5"	1.76	0.44
35:AO:9:GLU:O	35:AO:83:ALA:HA	2.16	0.44
35:AO:88:ASN:ND2	35:AO:90:GLN:HB2	2.24	0.44
35:AO:104:ARG:HB3	35:AO:104:ARG:NH1	2.33	0.44
36:AP:71:VAL:C	36:AP:73:GLY:H	2.25	0.44
36:AP:83:VAL:CG2	36:AP:105:LEU:HD13	2.47	0.44
36:AP:88:LEU:HD22	36:AP:114:ILE:HD13	2.00	0.44
36:AP:101:VAL:CA	36:AP:107:LYS:H	2.28	0.44
38:AR:24:GLN:NE2	38:AR:36:THR:HG21	2.32	0.44
39:AS:33:LYS:HD3	58:AB:28:C:OP2	2.17	0.44
39:AS:42:ASP:C	39:AS:44:LYS:N	2.74	0.44
41:AU:91:ASP:O	41:AU:92:ARG:O	2.36	0.44
42:AV:17:GLY:O	42:AV:18:LEU:HB3	2.17	0.44
42:AV:72:VAL:HG23	42:AV:72:VAL:O	2.18	0.44
45:AY:97:ARG:C	45:AY:99:CYS:H	2.25	0.44
46:AZ:120:ILE:HD11	57:AA:874:G:H4'	2.00	0.44
46:AZ:168:GLU:HA	46:AZ:168:GLU:OE2	2.16	0.44
47:A0:10:THR:HG22	47:A0:12:ASN:H	1.82	0.44
49:A2:2:LYS:N	57:AA:98:G:OP1	2.51	0.44
53:A6:31:PRO:O	53:A6:32:ASN:CG	2.61	0.44
57:AA:894:C:O2'	57:AA:895:U:H5'	2.17	0.44
57:AA:1532:C:O2'	57:AA:1533:G:H5'	2.18	0.44
57:AA:1541:G:H4'	57:AA:1542:A:H5"	1.98	0.44
57:AA:1750:G:H2'	57:AA:1751:C:H6	1.83	0.44
57:AA:1763:G:H2'	57:AA:1764:G:C5'	2.48	0.44
57:AA:2801(A):A:H4'	57:AA:2802:G:C2'	2.48	0.44
57:AA:2892:A:N7	57:AA:2893:G:H1'	2.32	0.44
1:Bb:96:ARG:HD2	1:Bb:96:ARG:N	2.33	0.44
4:Be:31:LEU:HD23	4:Be:31:LEU:HA	1.87	0.44
8:Bi:28:VAL:O	8:Bi:29:ASN:C	2.60	0.44
8:Bi:115:GLY:N	22:Ba:1367:C:OP1	2.44	0.44
11:Bl:54:LYS:N	11:Bl:54:LYS:HD2	2.33	0.44
14:Bo:43:LEU:HD12	14:Bo:56:LEU:HD22	1.99	0.44
15:Bp:8:ARG:HH11	15:Bp:8:ARG:HG2	1.83	0.44
18:Bs:12:ASP:O	18:Bs:16:LEU:HD12	2.17	0.44
21:By:39:ILE:C	21:By:41:ALA:N	2.73	0.44
22:Ba:36:C:O2'	22:Ba:37:U:H5'	2.18	0.44
22:Ba:37:U:O2'	22:Ba:38:G:H5'	2.17	0.44
22:Ba:61:G:H2'	22:Ba:62:U:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:269:C:H2'	22:Ba:270:A:C8	2.52	0.44
22:Ba:374:A:C6	22:Ba:375:U:C4	3.05	0.44
22:Ba:444:C:H2'	22:Ba:445:G:C8	2.53	0.44
22:Ba:702:A:H3'	22:Ba:703:G:H5'	1.99	0.44
22:Ba:1037:C:H2'	22:Ba:1038:C:C5	2.52	0.44
28:BE:75:VAL:C	28:BE:77:ILE:N	2.75	0.44
29:BF:3:GLU:HB2	29:BF:24:LEU:HG	2.00	0.44
29:BF:22:ALA:C	29:BF:24:LEU:N	2.76	0.44
29:BF:53:THR:C	29:BF:55:GLY:N	2.76	0.44
29:BF:187:VAL:HG12	36:BP:7:ARG:HD2	1.99	0.44
32:BI:68:LEU:HG	32:BI:72:LEU:CG	2.47	0.44
32:BI:101:LEU:O	32:BI:107:VAL:HB	2.17	0.44
34:BN:43:THR:HB	34:BN:46:VAL:CG1	2.47	0.44
36:BP:88:LEU:CD2	36:BP:114:ILE:HD13	2.47	0.44
37:BQ:134:ARG:HA	37:BQ:137:TYR:CE1	2.53	0.44
38:BR:63:ARG:HA	38:BR:80:PHE:CE2	2.52	0.44
38:BR:67:LEU:O	38:BR:70:LEU:O	2.35	0.44
38:BR:85:PRO:O	38:BR:88:ARG:HB2	2.17	0.44
41:BU:59:ARG:NH1	57:BA:1009:A:O4'	2.51	0.44
41:BU:76:TYR:O	41:BU:77:SER:C	2.60	0.44
42:BV:19:LYS:NZ	42:BV:20:LEU:HB2	2.32	0.44
45:BY:8:LYS:N	45:BY:8:LYS:CD	2.71	0.44
45:BY:27:VAL:CA	45:BY:28:LYS:HE3	2.48	0.44
46:BZ:64:GLY:O	46:BZ:65:GLN:C	2.59	0.44
47:B0:82:ARG:HG2	47:B0:82:ARG:O	2.18	0.44
49:B2:35:LEU:O	49:B2:39:ALA:N	2.42	0.44
52:B5:2:ALA:HB3	57:BA:747:U:N1	2.31	0.44
55:B8:61:LEU:CD1	55:B8:61:LEU:H	2.25	0.44
57:BA:440:G:H2'	57:BA:441:U:C6	2.53	0.44
57:BA:545:C:H2'	57:BA:547:A:C5'	2.48	0.44
57:BA:646:A:H2'	57:BA:647:G:O4'	2.18	0.44
57:BA:718:A:H2'	57:BA:719:C:H5'	1.99	0.44
57:BA:833:U:H2'	57:BA:834:C:C6	2.53	0.44
57:BA:880:G:H1	57:BA:897:C:N4	2.05	0.44
57:BA:945:A:C4	57:BA:2448:A:C2	3.05	0.44
57:BA:1592:C:H2'	57:BA:1593:G:H8	1.82	0.44
57:BA:2123:G:O2'	57:BA:2124:G:H5'	2.17	0.44
57:BA:2340:G:O2'	57:BA:2341:G:H5'	2.18	0.44
57:BA:2465:C:O2'	57:BA:2466:C:H5'	2.18	0.44
57:BA:2628:C:H1'	57:BA:2781:A:H2'	1.99	0.44
5:Af:5:GLU:HG3	5:Af:93:SER:OG	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Ai:26:VAL:HG13	8:Ai:61:ALA:O	2.18	0.44
9:Aj:5:ARG:HH21	22:Aa:1125:U:H3	1.64	0.44
10:Ak:65:ALA:HB1	10:Ak:98:LEU:HD23	1.99	0.44
10:Ak:85:ARG:NH1	22:Aa:707:C:H5"	2.33	0.44
11:Al:84:LEU:HD13	11:Al:104:VAL:HG11	1.98	0.44
12:Am:29:ARG:HH12	12:Am:64:TRP:HB2	1.82	0.44
18:As:29:ARG:O	18:As:31:ILE:N	2.50	0.44
18:As:40:ILE:HG21	18:As:62:ILE:CG1	2.47	0.44
22:Aa:151:A:H2'	22:Aa:152:A:H5'	1.99	0.44
22:Aa:429:U:C1'	22:Aa:430:A:H5"	2.47	0.44
22:Aa:662:G:O2'	22:Aa:836:G:H5"	2.17	0.44
27:AD:122:ASP:OD1	27:AD:123:ALA:N	2.44	0.44
28:AE:1:MET:O	28:AE:2:LYS:C	2.61	0.44
28:AE:34:VAL:HG11	28:AE:78:LEU:HD23	1.98	0.44
28:AE:67:PHE:O	28:AE:68:ALA:C	2.61	0.44
28:AE:93:VAL:C	28:AE:95:ILE:H	2.26	0.44
31:AH:70:THR:O	31:AH:71:LEU:C	2.61	0.44
31:AH:136:ILE:H	31:AH:136:ILE:CD1	2.31	0.44
33:AJ:55:LYS:O	33:AJ:56:ASN:O	2.36	0.44
34:AN:16:ILE:HG23	34:AN:54:VAL:HG22	2.00	0.44
34:AN:29:LYS:O	34:AN:30:ILE:C	2.60	0.44
34:AN:57:ALA:HB2	34:AN:123:TYR:O	2.18	0.44
34:AN:65:LYS:O	34:AN:69:GLN:HB2	2.18	0.44
35:AO:72:PRO:C	35:AO:74:GLY:N	2.76	0.44
35:AO:104:ARG:HE	40:AT:33:LYS:HD2	1.81	0.44
37:AQ:9:TYR:OH	57:AA:911:A:H2'	2.18	0.44
38:AR:28:LEU:C	38:AR:30:THR:H	2.25	0.44
38:AR:44:LEU:HD13	38:AR:44:LEU:C	2.42	0.44
40:AT:117:ASP:CG	40:AT:120:ARG:HG3	2.43	0.44
41:AU:62:ILE:HG12	41:AU:76:TYR:CZ	2.52	0.44
47:A0:36:ILE:HD13	47:A0:58:THR:HG23	1.99	0.44
48:A1:19:GLN:C	48:A1:35:THR:HG22	2.43	0.44
49:A2:50:ILE:O	49:A2:52:ASP:N	2.51	0.44
51:A4:6:HIS:CD2	51:A4:6:HIS:N	2.85	0.44
53:A6:19:ARG:O	53:A6:20:ASN:O	2.36	0.44
57:AA:99:U:C4'	57:AA:102:G:H1'	2.48	0.44
57:AA:229:A:H5"	57:AA:230:U:H5'	1.98	0.44
57:AA:230:U:O2	57:AA:230:U:H2'	2.17	0.44
57:AA:333:G:C4	57:AA:334:C:C5	3.06	0.44
57:AA:530:G:C5	57:AA:2022:U:H5"	2.53	0.44
57:AA:1490:A:H5'	57:AA:1494:A:N6	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1517:G:O2'	57:AA:1518:U:H5'	2.17	0.44
57:AA:2196:C:O2'	57:AA:2197:U:H5'	2.18	0.44
57:AA:2197:U:H1'	57:AA:2198:A:C8	2.52	0.44
57:AA:2574:G:O2'	57:AA:2575:C:H5'	2.18	0.44
57:AA:2705:A:H2'	57:AA:2706:G:O4'	2.18	0.44
57:AA:2732:G:C2'	57:AA:2733:A:H5'	2.48	0.44
57:AA:2773:C:O2'	57:AA:2774:C:H5'	2.17	0.44
1:Bb:141:GLU:C	1:Bb:143:GLU:N	2.75	0.44
3:Bd:65:ARG:HG3	3:Bd:75:PHE:CD1	2.52	0.44
4:Be:6:PHE:CZ	4:Be:66:MET:HE1	2.52	0.44
4:Be:146:ALA:O	4:Be:147:ASP:C	2.61	0.44
7:Bh:3:THR:O	22:Ba:587:G:H4'	2.17	0.44
7:Bh:49:GLU:O	7:Bh:49:GLU:HG3	2.16	0.44
11:Bl:57:LYS:HG3	11:Bl:67:THR:HG22	2.00	0.44
12:Bm:79:LYS:O	12:Bm:79:LYS:HD2	2.18	0.44
12:Bm:83:ASP:OD2	12:Bm:85:GLY:O	2.36	0.44
13:Bn:24:CYS:SG	13:Bn:27:CYS:SG	3.09	0.44
16:Bq:5:VAL:O	16:Bq:6:LEU:HD23	2.18	0.44
22:Ba:12:U:H4'	22:Ba:526:C:H4'	1.98	0.44
22:Ba:76:C:H42	22:Ba:93:G:H1	1.65	0.44
22:Ba:112:G:O2'	22:Ba:113:G:H5'	2.18	0.44
22:Ba:255:G:O6	22:Ba:266:G:O6	2.36	0.44
22:Ba:1000:U:H2'	22:Ba:1001:A:C8	2.46	0.44
22:Ba:1130:A:C2	22:Ba:1146:A:N3	2.86	0.44
22:Ba:1321:C:H3'	22:Ba:1322:C:H5"	1.99	0.44
22:Ba:1422:G:H2'	22:Ba:1423:G:C8	2.53	0.44
22:Ba:1514:C:H2'	22:Ba:1515:C:C6	2.52	0.44
25:Bw:9:G:N3	25:Bw:45:G:H2'	2.33	0.44
25:Bw:65:C:H2'	25:Bw:66:C:C6	2.53	0.44
28:BE:137:HIS:HB3	28:BE:138:PRO:HD2	1.99	0.44
29:BF:68:LYS:HE2	57:BA:2444:G:P	2.56	0.44
29:BF:183:VAL:HG23	29:BF:184:TYR:N	2.33	0.44
30:BG:74:LYS:O	30:BG:75:LYS:O	2.35	0.44
30:BG:145:THR:OG1	30:BG:147:ASP:OD1	2.30	0.44
31:BH:44:VAL:H	31:BH:46:GLU:CD	2.26	0.44
32:BI:27:ARG:CG	48:B1:71:TYR:CE1	3.00	0.44
34:BN:16:ILE:HG23	34:BN:54:VAL:HG22	2.00	0.44
34:BN:57:ALA:O	34:BN:58:ASP:C	2.61	0.44
34:BN:65:LYS:O	34:BN:69:GLN:HB2	2.18	0.44
35:BO:88:ASN:ND2	35:BO:90:GLN:HB2	2.30	0.44
36:BP:88:LEU:HD22	36:BP:114:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:47:ILE:CD1	37:BQ:70:PRO:HD3	2.47	0.44
37:BQ:82:ARG:HD2	47:B0:4:LYS:HE3	1.99	0.44
39:BS:28:VAL:HG21	39:BS:87:PHE:HE1	1.82	0.44
41:BU:79:PHE:CD2	41:BU:83:LEU:HD21	2.53	0.44
41:BU:83:LEU:HD13	41:BU:113:ALA:HB2	1.98	0.44
45:BY:20:TYR:CE2	45:BY:42:VAL:N	2.79	0.44
46:BZ:38:TYR:CD1	46:BZ:38:TYR:O	2.71	0.44
46:BZ:40:ASP:CG	46:BZ:41:LEU:N	2.76	0.44
52:B5:40:LYS:NZ	52:B5:46:CYS:O	2.50	0.44
54:B7:19:ARG:HG2	54:B7:19:ARG:NH1	2.32	0.44
55:B8:4:MET:HE3	55:B8:61:LEU:CD2	2.33	0.44
56:B9:19:ARG:NH2	57:BA:2756:U:OP2	2.49	0.44
57:BA:185:U:H4'	57:BA:218:A:H4'	2.00	0.44
57:BA:676:A:H2	57:BA:802:A:N6	2.10	0.44
57:BA:1681:G:O2'	57:BA:1762:A:C2'	2.66	0.44
57:BA:1721:G:H2'	57:BA:1741:A:N6	2.33	0.44
57:BA:2192:G:C2'	57:BA:2193:G:H5"	2.48	0.44
58:BB:13:A:H2'	58:BB:70:C:O2'	2.18	0.44
58:BB:23:G:H1	58:BB:60:C:H42	1.66	0.44
58:BB:82:G:H2'	58:BB:83:G:H8	1.83	0.44
1:Ab:204:ASN:HD22	1:Ab:204:ASN:C	2.24	0.44
2:Ac:18:TRP:CE3	2:Ac:18:TRP:N	2.85	0.44
2:Ac:182:ILE:HD11	2:Ac:203:PHE:HD1	1.82	0.44
3:Ad:189:PRO:HB2	3:Ad:194:LEU:HD21	2.00	0.44
4:Ae:21:ALA:HB2	22:Aa:923:A:OP1	2.17	0.44
7:Ah:98:LYS:C	7:Ah:99:GLU:HG3	2.42	0.44
9:Aj:16:LEU:CD2	9:Aj:94:VAL:HG13	2.39	0.44
12:Am:29:ARG:HH12	12:Am:64:TRP:CB	2.31	0.44
21:Ay:43:LYS:HA	21:Ay:51:TYR:CA	2.34	0.44
22:Aa:594:G:H2'	22:Aa:595:G:H5'	2.00	0.44
22:Aa:696:A:O2'	22:Aa:697:U:H5'	2.18	0.44
22:Aa:1027:C:O2	22:Aa:1028:C:N4	2.51	0.44
24:Av:12:G:H1'	57:AA:1923:U:O2'	2.18	0.44
25:Aw:30:G:O2'	25:Aw:31:G:H5'	2.17	0.44
27:AD:25:THR:HG22	27:AD:26:LYS:N	2.33	0.44
27:AD:76:PRO:HG2	27:AD:98:VAL:HG21	1.97	0.44
28:AE:59:VAL:CG1	28:AE:60:ASN:N	2.80	0.44
31:AH:71:LEU:HD23	31:AH:71:LEU:HA	1.86	0.44
37:AQ:19:GLY:CA	58:AB:92:C:OP1	2.65	0.44
38:AR:96:ARG:HG3	57:AA:2882:A:H5'	1.99	0.44
40:AT:107:ASP:H	40:AT:110:ILE:CG1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AV:52:VAL:O	42:AV:53:GLU:C	2.61	0.44
44:AX:52:VAL:HB	44:AX:82:GLN:HG3	2.00	0.44
45:AY:40:GLU:HA	45:AY:64:GLU:OE2	2.18	0.44
45:AY:55:TYR:O	45:AY:56:PRO:C	2.61	0.44
45:AY:84:ARG:HD2	45:AY:97:ARG:HE	1.80	0.44
46:AZ:24:LEU:C	46:AZ:24:LEU:CD2	2.90	0.44
46:AZ:152:ALA:HB2	46:AZ:168:GLU:CA	2.47	0.44
47:A0:84:LEU:HD12	47:A0:84:LEU:N	2.33	0.44
52:A5:51:TYR:C	52:A5:53:ALA:N	2.75	0.44
53:A6:51:GLU:O	53:A6:52:VAL:HB	2.16	0.44
57:AA:19:C:O2'	57:AA:20:C:H5'	2.18	0.44
57:AA:85:G:N3	57:AA:103:A:C2	2.86	0.44
57:AA:373:U:H2'	57:AA:374:A:H8	1.82	0.44
57:AA:478:A:C6	57:AA:480:A:C6	3.06	0.44
57:AA:673:C:H2'	57:AA:674:G:H5'	2.00	0.44
57:AA:699:A:H4'	57:AA:1634:A:N7	2.33	0.44
57:AA:1448:G:H2'	57:AA:1449:A:C8	2.53	0.44
57:AA:1683:C:H2'	57:AA:1684:C:C6	2.52	0.44
57:AA:1690:A:H2'	57:AA:1691:C:O4'	2.18	0.44
57:AA:1892:C:O2'	57:AA:1893:C:H5'	2.17	0.44
57:AA:2192:G:C2'	57:AA:2193:G:H5"	2.48	0.44
57:AA:2277:G:H2'	57:AA:2278:A:H5'	2.00	0.44
57:AA:2737:G:H2'	57:AA:2738:A:H8	1.81	0.44
58:AB:55:U:H2'	58:AB:56:G:C8	2.52	0.44
1:Bb:111:ARG:NH1	1:Bb:111:ARG:HG2	2.32	0.44
1:Bb:214:ILE:O	1:Bb:218:ALA:HB2	2.18	0.44
3:Bd:14:ARG:HG3	3:Bd:59:ARG:NH1	2.32	0.44
5:Bf:2:ARG:O	5:Bf:66:GLU:HA	2.18	0.44
5:Bf:89:MET:HG2	5:Bf:89:MET:O	2.18	0.44
6:Bg:29:LYS:HB2	6:Bg:105:VAL:HG21	1.98	0.44
6:Bg:41:ARG:HG3	6:Bg:41:ARG:NH1	2.31	0.44
7:Bh:84:ARG:NH1	7:Bh:84:ARG:HG2	2.33	0.44
8:Bi:46:ALA:HB1	8:Bi:77:ILE:HG22	2.00	0.44
10:Bk:85:ARG:NH1	22:Ba:707:C:H5"	2.32	0.44
12:Bm:78:ILE:C	12:Bm:80:ARG:N	2.75	0.44
16:Bq:16:GLN:NE2	22:Ba:255:G:H1'	2.32	0.44
17:Br:61:LYS:HE2	22:Ba:836:G:OP1	2.17	0.44
18:Bs:11:VAL:O	18:Bs:16:LEU:HD11	2.16	0.44
18:Bs:23:ASN:O	18:Bs:25:LYS:N	2.50	0.44
18:Bs:29:ARG:O	18:Bs:30:LEU:C	2.60	0.44
22:Ba:12:U:H2'	22:Ba:13:U:H5"	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:99:U:H2'	22:Ba:100:C:C6	2.53	0.44
22:Ba:221:C:H2'	22:Ba:222:U:C6	2.43	0.44
22:Ba:341:C:H2'	22:Ba:342:C:H6	1.82	0.44
22:Ba:774:G:O2'	22:Ba:775:G:H5'	2.18	0.44
22:Ba:983:A:N1	22:Ba:1222:G:N2	2.66	0.44
22:Ba:1521:G:H2'	22:Ba:1522:U:C6	2.53	0.44
25:Bw:1:C:H42	25:Bw:72:A:H61	1.66	0.44
27:BD:12:SER:HB2	27:BD:208:LYS:HB3	2.00	0.44
27:BD:72:LYS:HE3	27:BD:101:GLU:OE2	2.18	0.44
27:BD:227:ASN:HB3	27:BD:228:PRO:CD	2.47	0.44
29:BF:135:LYS:HB3	29:BF:138:GLU:HG3	1.98	0.44
30:BG:96:ARG:NH2	30:BG:97:ASP:CG	2.74	0.44
30:BG:125:PHE:HD1	30:BG:126:ASP:N	2.12	0.44
32:BI:110:ASP:HB2	32:BI:113:ARG:HB2	1.97	0.44
32:BI:119:PRO:O	32:BI:121:LYS:N	2.51	0.44
34:BN:96:GLU:H	34:BN:96:GLU:CD	2.25	0.44
37:BQ:54:MET:O	37:BQ:57:HIS:HB3	2.18	0.44
38:BR:24:GLN:O	38:BR:25:ALA:C	2.60	0.44
39:BS:28:VAL:HG21	39:BS:87:PHE:CE1	2.53	0.44
40:BT:89:VAL:HB	40:BT:91:ARG:CD	2.47	0.44
41:BU:20:LEU:N	41:BU:20:LEU:HD22	2.32	0.44
42:BV:41:GLY:HA3	42:BV:45:THR:OG1	2.18	0.44
44:BX:29:TRP:CZ2	44:BX:76:ARG:NH2	2.86	0.44
45:BY:28:LYS:O	45:BY:30:VAL:N	2.51	0.44
56:B9:7:VAL:CG1	56:B9:25:VAL:HG21	2.47	0.44
57:BA:706:A:H2'	57:BA:707:G:O4'	2.17	0.44
57:BA:952:G:C6	57:BA:953:A:N7	2.85	0.44
57:BA:1273:U:H4'	57:BA:1275:A:OP1	2.18	0.44
57:BA:1368:G:C2	57:BA:1369:G:C8	3.06	0.44
57:BA:2245:U:H5'	57:BA:2246:G:C5'	2.42	0.44
57:BA:2732:G:O2'	57:BA:2733:A:H5'	2.17	0.44
58:BB:45:A:H2'	58:BB:45:A:N3	2.33	0.44
58:BB:94:C:O2'	58:BB:95:C:H5'	2.17	0.44
1:Ab:135:GLN:O	1:Ab:139:LYS:HB2	2.18	0.43
1:Ab:178:ARG:NH2	7:Ah:68:ARG:HH22	2.15	0.43
2:Ac:77:ILE:HG22	2:Ac:81:GLY:HA2	2.00	0.43
3:Ad:128:VAL:CG1	3:Ad:129:ASN:ND2	2.81	0.43
4:Ae:50:GLU:HG3	4:Ae:52:PRO:HD2	1.99	0.43
7:Ah:11:THR:HA	7:Ah:14:ARG:NH1	2.33	0.43
7:Ah:49:GLU:O	7:Ah:51:VAL:HG13	2.18	0.43
9:Aj:24:VAL:HG22	9:Aj:72:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:Ap:43:LYS:C	15:Ap:45:THR:N	2.76	0.43
18:As:77:THR:CG2	22:Aa:1221:G:H4'	2.47	0.43
21:Ay:91:VAL:HG13	21:Ay:92:LYS:N	2.33	0.43
22:Aa:629:G:H2'	22:Aa:630:G:O4'	2.18	0.43
22:Aa:757:U:H2'	22:Aa:758:G:O4'	2.18	0.43
22:Aa:1005:A:H2'	22:Aa:1006:C:H5'	2.00	0.43
22:Aa:1329:A:C2	22:Aa:1330:U:C2	3.05	0.43
22:Aa:1363(A):A:C1'	22:Aa:1365:G:N7	2.81	0.43
24:Av:3:C:H42	24:Av:70:G:H1	1.66	0.43
26:AC:194:ILE:HG22	26:AC:198:GLU:CD	2.42	0.43
26:AC:226:ASN:C	26:AC:228:HIS:H	2.26	0.43
28:AE:69:LYS:H	28:AE:69:LYS:HG3	1.59	0.43
28:AE:70:ALA:O	28:AE:71:GLY:C	2.61	0.43
28:AE:77:ILE:HG22	28:AE:78:LEU:HD12	2.00	0.43
30:AG:11:TYR:HD2	30:AG:12:TYR:CD1	2.36	0.43
30:AG:40:ASN:HD22	30:AG:41:GLN:N	2.13	0.43
30:AG:72:ARG:HA	30:AG:87:PRO:CG	2.45	0.43
32:AI:77:LEU:HD12	32:AI:101:LEU:HD11	2.00	0.43
38:AR:65:LEU:HA	38:AR:65:LEU:HD12	1.68	0.43
38:AR:94:TYR:CD2	38:AR:94:TYR:N	2.85	0.43
39:AS:12:PHE:C	39:AS:13:ARG:HG2	2.42	0.43
40:AT:25:GLY:O	40:AT:26:ASP:HB2	2.18	0.43
40:AT:98:LYS:HB3	40:AT:100:TYR:CE1	2.53	0.43
40:AT:128:GLU:CD	40:AT:129:ARG:N	2.76	0.43
41:AU:101:ARG:C	41:AU:102:GLU:HG2	2.43	0.43
44:AX:71:GLY:HA3	57:AA:65:C:H5'	1.99	0.43
45:AY:50:ARG:HG3	57:AA:484:C:OP1	2.18	0.43
45:AY:52:SER:HB2	45:AY:53:PRO:HD3	2.00	0.43
46:AZ:171:ILE:O	46:AZ:172:ALA:CB	2.65	0.43
48:A1:37:ILE:O	48:A1:37:ILE:CG2	2.66	0.43
51:A4:11:PRO:O	51:A4:29:PRO:HG3	2.18	0.43
52:A5:43:HIS:CD2	57:AA:2815:C:O2'	2.71	0.43
53:A6:27:LYS:HG3	57:AA:2285:C:OP2	2.18	0.43
57:AA:246:C:C2'	57:AA:247:G:H5'	2.48	0.43
57:AA:646:A:H2'	57:AA:647:G:O4'	2.17	0.43
57:AA:760:G:H2'	57:AA:761:A:O4'	2.18	0.43
57:AA:953:A:C2'	57:AA:954:G:H5'	2.48	0.43
57:AA:1385:G:H4'	57:AA:1386:C:OP1	2.18	0.43
57:AA:1563:G:O2'	57:AA:1564:C:H5'	2.17	0.43
57:AA:2472:G:H3'	57:AA:2475:C:H41	1.81	0.43
57:AA:2510:C:O2'	57:AA:2511:U:H5'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:2540:C:H2'	57:AA:2541:A:O4'	2.18	0.43
57:AA:2779:U:O2	57:AA:2779:U:O4'	2.35	0.43
2:Bc:16:ARG:NH1	2:Bc:16:ARG:CB	2.81	0.43
2:Bc:127:ARG:HG2	2:Bc:127:ARG:NH1	2.33	0.43
3:Bd:60:GLU:OE2	3:Bd:198:VAL:HA	2.17	0.43
9:Bj:20:ALA:O	9:Bj:24:VAL:HG23	2.17	0.43
9:Bj:36:GLY:C	22:Ba:1123:A:H4'	2.43	0.43
15:Bp:34:GLU:OE2	15:Bp:55:ARG:HD3	2.17	0.43
15:Bp:55:ARG:O	15:Bp:58:TYR:HB3	2.18	0.43
17:Br:49:LYS:HB3	22:Ba:719:C:O2'	2.18	0.43
18:Bs:31:ILE:HG23	18:Bs:31:ILE:O	2.18	0.43
22:Ba:26:A:H2'	22:Ba:27:G:H5'	2.00	0.43
22:Ba:106:C:H2'	22:Ba:107:G:C8	2.49	0.43
22:Ba:269:C:H2'	22:Ba:270:A:H8	1.83	0.43
22:Ba:277:C:H2'	22:Ba:278:G:H8	1.83	0.43
22:Ba:403:C:H2'	22:Ba:404:U:C6	2.46	0.43
22:Ba:594:G:O2'	22:Ba:595:G:H5'	2.18	0.43
22:Ba:792:A:H4'	22:Ba:793:U:O5'	2.18	0.43
22:Ba:909:A:H2'	22:Ba:910:C:O4'	2.18	0.43
22:Ba:1053:G:C4'	22:Ba:1054:C:H5'	2.48	0.43
22:Ba:1139:G:N3	22:Ba:1141:C:N4	2.65	0.43
22:Ba:1305:G:H22	22:Ba:1331:G:H1'	1.81	0.43
22:Ba:1344:C:O5'	22:Ba:1344:C:H6	2.00	0.43
25:Bw:49:G:H2'	25:Bw:50:U:O4'	2.18	0.43
26:BC:34:ALA:HB1	26:BC:40:GLU:CG	2.44	0.43
26:BC:52:PRO:C	26:BC:54:ARG:H	2.26	0.43
26:BC:184:GLU:HB2	26:BC:185:LYS:HZ2	1.82	0.43
26:BC:218:THR:HG22	57:BA:2124:G:H21	1.82	0.43
27:BD:210:GLY:HA2	27:BD:213:ARG:HG2	2.00	0.43
34:BN:130:HIS:HD2	57:BA:7:G:H5'	1.83	0.43
34:BN:132:ALA:O	34:BN:133:GLN:CB	2.66	0.43
36:BP:88:LEU:HD12	36:BP:88:LEU:N	2.32	0.43
37:BQ:116:GLU:OE2	37:BQ:120:ILE:HD11	2.18	0.43
39:BS:28:VAL:CG2	39:BS:87:PHE:HE1	2.31	0.43
39:BS:44:LYS:C	39:BS:46:VAL:H	2.26	0.43
39:BS:54:LEU:HD13	39:BS:57:LYS:HD2	2.00	0.43
39:BS:97:ARG:C	39:BS:97:ARG:NE	2.76	0.43
43:BW:40:ASN:C	43:BW:41:LYS:HG2	2.43	0.43
44:BX:60:ARG:NH2	54:B7:47:ARG:HH11	2.13	0.43
45:BY:4:LYS:CG	45:BY:5:MET:N	2.81	0.43
46:BZ:100:VAL:CG1	46:BZ:137:ILE:HG12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:102:LEU:HD23	46:BZ:137:ILE:HB	2.00	0.43
48:B1:90:ILE:O	48:B1:93:GLU:HB2	2.18	0.43
51:B4:22:ILE:H	51:B4:22:ILE:CD1	2.25	0.43
52:B5:51:TYR:O	52:B5:53:ALA:N	2.50	0.43
53:B6:41:PRO:HG3	53:B6:44:ARG:NH1	2.33	0.43
57:BA:1210:A:H5"	57:BA:1212:G:C4'	2.48	0.43
57:BA:1278:A:H2'	57:BA:1279:G:H8	1.83	0.43
57:BA:1657:C:O2'	57:BA:1658:C:H5'	2.18	0.43
57:BA:1831:G:C6	57:BA:1832:C:N4	2.86	0.43
57:BA:1953:A:H2	57:BA:2549:G:N3	2.16	0.43
57:BA:2083:G:H2'	57:BA:2084:C:C6	2.53	0.43
57:BA:2199:A:H2'	57:BA:2199:A:N3	2.33	0.43
1:Ab:83:MET:SD	1:Ab:234:PRO:HG2	2.58	0.43
1:Ab:141:GLU:C	1:Ab:143:GLU:N	2.75	0.43
4:Ae:91:LEU:HD13	4:Ae:120:THR:HG22	1.99	0.43
4:Ae:94:ALA:HB2	4:Ae:119:LEU:HG	2.00	0.43
8:Ai:14:VAL:HG11	22:Aa:1148:U:H4'	1.99	0.43
8:Ai:63:ILE:HD11	8:Ai:81:ILE:CD1	2.35	0.43
10:Ak:121:PRO:O	10:Ak:122:LYS:O	2.36	0.43
12:Am:65:LYS:HE2	12:Am:70:LEU:N	2.30	0.43
12:Am:77:ASN:HD21	22:Aa:1310:G:H5'	1.83	0.43
12:Am:106:ASN:O	12:Am:107:ALA:CB	2.66	0.43
13:An:48:ALA:CA	13:An:53:LEU:HD12	2.48	0.43
15:Ap:50:LYS:HD3	15:Ap:50:LYS:C	2.42	0.43
16:Aq:48:GLU:HB2	16:Aq:50:LYS:HG2	2.00	0.43
16:Aq:68:ARG:NH1	22:Aa:277:C:C5'	2.81	0.43
22:Aa:436:C:O2'	22:Aa:437:U:P	2.76	0.43
22:Aa:589:C:O2'	22:Aa:590:C:H5'	2.17	0.43
22:Aa:861:G:O2'	22:Aa:862:C:H5'	2.18	0.43
22:Aa:1070:U:H2'	22:Aa:1071:C:H6	1.83	0.43
22:Aa:1251:A:H1'	22:Aa:1369:C:O2'	2.19	0.43
25:Aw:31:G:C2'	25:Aw:32:C:H5'	2.48	0.43
25:Aw:49:G:C2'	25:Aw:50:U:H5'	2.48	0.43
27:AD:30:GLU:OE1	27:AD:63:ARG:HG2	2.17	0.43
27:AD:35:LYS:HD2	27:AD:36:PRO:CA	2.47	0.43
27:AD:166:GLN:NE2	27:AD:166:GLN:HA	2.31	0.43
28:AE:4:ILE:CG1	28:AE:5:LEU:N	2.78	0.43
28:AE:11:MET:HE1	28:AE:187:ALA:H	1.84	0.43
28:AE:47:VAL:O	28:AE:80:GLU:HA	2.18	0.43
31:AH:52:VAL:O	31:AH:65:HIS:HE1	2.01	0.43
32:AI:100:ALA:O	32:AI:101:LEU:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:122:GLU:OE2	32:AI:126:TYR:OH	2.34	0.43
34:AN:55:VAL:O	34:AN:56:ASN:C	2.59	0.43
35:AO:72:PRO:C	35:AO:74:GLY:H	2.25	0.43
37:AQ:45:GLN:O	37:AQ:49:ALA:CB	2.66	0.43
40:AT:28:VAL:CG2	40:AT:47:GLY:H	2.26	0.43
41:AU:97:ASP:C	41:AU:99:ALA:N	2.73	0.43
42:AV:21:ARG:CB	42:AV:91:TYR:HB2	2.47	0.43
42:AV:85:LYS:HE2	42:AV:85:LYS:HB2	1.84	0.43
43:AW:45:TYR:HD2	43:AW:46:PHE:CD1	2.36	0.43
46:AZ:29:TYR:N	46:AZ:29:TYR:CD2	2.86	0.43
46:AZ:59:LEU:O	46:AZ:61:LEU:HD23	2.18	0.43
46:AZ:99:TYR:CE1	46:AZ:125:LEU:HB2	2.52	0.43
53:A6:10:LEU:CD2	53:A6:10:LEU:N	2.77	0.43
53:A6:27:LYS:HD3	53:A6:27:LYS:O	2.18	0.43
57:AA:271(Q):G:O2'	57:AA:271(R):G:P	2.76	0.43
57:AA:433:C:H2'	57:AA:434:U:C6	2.53	0.43
57:AA:580:C:H2'	57:AA:581:C:H6	1.82	0.43
57:AA:1052:C:H3'	57:AA:1052:C:H6	1.83	0.43
57:AA:2134:A:H2	57:AA:2159:G:H1'	1.78	0.43
57:AA:2335:A:O2'	57:AA:2336:A:H5"	2.19	0.43
57:AA:2347:C:H2'	57:AA:2348:U:H6	1.82	0.43
57:AA:2712:U:H5'	57:AA:2712:U:O2	2.18	0.43
1:Bb:15:VAL:C	1:Bb:16:HIS:ND1	2.76	0.43
1:Bb:37:ASN:OD1	1:Bb:37:ASN:O	2.36	0.43
1:Bb:86:GLU:C	1:Bb:88:ALA:H	2.26	0.43
1:Bb:189:ASP:OD1	1:Bb:189:ASP:N	2.50	0.43
2:Bc:11:ARG:O	2:Bc:13:GLY:N	2.51	0.43
2:Bc:35:GLU:C	2:Bc:37:GLN:N	2.76	0.43
2:Bc:126:ARG:O	2:Bc:127:ARG:HB2	2.17	0.43
3:Bd:121:VAL:HA	3:Bd:126:ILE:HD13	2.01	0.43
4:Be:48:ALA:C	4:Be:50:GLU:H	2.26	0.43
4:Be:50:GLU:HG3	4:Be:52:PRO:HD2	2.00	0.43
5:Bf:52:ILE:O	5:Bf:53:ALA:HB3	2.18	0.43
6:Bg:23:VAL:CG1	6:Bg:43:PHE:CE2	3.02	0.43
7:Bh:29:SER:HA	22:Ba:590:C:OP1	2.18	0.43
9:Bj:4:ILE:N	9:Bj:4:ILE:CD1	2.81	0.43
9:Bj:50:ILE:O	9:Bj:50:ILE:HG12	2.18	0.43
10:Bk:15:ALA:HB1	10:Bk:78:GLN:CG	2.43	0.43
11:Bl:83:VAL:CG1	11:Bl:84:LEU:N	2.78	0.43
15:Bp:36:ILE:HG13	15:Bp:36:ILE:O	2.19	0.43
18:Bs:5:LEU:HG	18:Bs:10:PHE:HD1	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Bu:6:ARG:O	20:Bu:7:ARG:HG3	2.18	0.43
21:By:10:ARG:NH1	21:By:93:ARG:HG3	2.33	0.43
22:Ba:370:C:H2'	22:Ba:371:G:H8	1.82	0.43
22:Ba:393:A:C2	22:Ba:394:G:C8	3.06	0.43
22:Ba:413:G:H1'	22:Ba:428:G:H21	1.83	0.43
22:Ba:504:C:H2'	22:Ba:504:C:O2	2.18	0.43
22:Ba:560:U:O2'	22:Ba:561:U:OP2	2.28	0.43
22:Ba:757:U:H2'	22:Ba:758:G:O4'	2.18	0.43
22:Ba:902:G:H2'	22:Ba:903:G:H8	1.83	0.43
22:Ba:929:G:C6	22:Ba:930:C:C4	3.06	0.43
22:Ba:967:C:H2'	22:Ba:968:A:C8	2.53	0.43
22:Ba:1096:C:H2'	22:Ba:1097:C:H6	1.82	0.43
22:Ba:1116:C:H3'	22:Ba:1117:G:H5"	1.99	0.43
22:Ba:1396:A:O4'	22:Ba:1398:A:H1'	2.18	0.43
24:Bv:43:A:H2'	24:Bv:43:A:N3	2.33	0.43
26:BC:225:ILE:HD12	26:BC:225:ILE:O	2.18	0.43
28:BE:32:PRO:O	28:BE:34:VAL:N	2.51	0.43
30:BG:122:PRO:HG2	30:BG:123:ASN:H	1.83	0.43
30:BG:138:GLN:OE1	30:BG:152:LEU:CA	2.65	0.43
31:BH:56:SER:CB	31:BH:58:GLU:HG3	2.48	0.43
32:BI:22:LYS:HD2	57:BA:2094:G:OP1	2.17	0.43
32:BI:69:LYS:HA	32:BI:136:VAL:CB	2.47	0.43
33:BJ:99:SER:O	33:BJ:100:ASN:CB	2.67	0.43
36:BP:71:VAL:C	36:BP:73:GLY:H	2.27	0.43
37:BQ:45:GLN:O	37:BQ:49:ALA:CB	2.66	0.43
37:BQ:61:GLY:N	46:BZ:178:GLU:O	2.51	0.43
46:BZ:67:LEU:HD22	46:BZ:67:LEU:N	2.33	0.43
47:B0:84:LEU:HD12	47:B0:84:LEU:N	2.33	0.43
51:B4:43:TYR:O	51:B4:44:THR:O	2.35	0.43
57:BA:70:G:H21	57:BA:71:A:N6	2.16	0.43
57:BA:108:U:H2'	57:BA:109:G:C8	2.52	0.43
57:BA:646:A:H5'	57:BA:646:A:N3	2.33	0.43
57:BA:710:G:H1	57:BA:721:C:H42	1.66	0.43
57:BA:986:C:C2'	57:BA:987:G:H5'	2.47	0.43
57:BA:1341:U:OP1	57:BA:1397:U:N3	2.45	0.43
57:BA:1808:U:H2'	57:BA:1809:A:O4'	2.18	0.43
57:BA:1921:G:H2'	57:BA:1922:G:H8	1.83	0.43
57:BA:1998:G:O2'	57:BA:1999:C:H5'	2.19	0.43
57:BA:2318:G:C2'	57:BA:2319:G:OP1	2.66	0.43
57:BA:2653:U:H2'	57:BA:2654:A:C8	2.52	0.43
57:BA:2666:C:H3'	57:BA:2667:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:173:VAL:HG12	2:Ac:175:LEU:CD1	2.48	0.43
3:Ad:61:LYS:HE3	3:Ad:62:GLN:HE21	1.83	0.43
9:Aj:40:LEU:CD2	22:Aa:1280:A:H5'	2.49	0.43
15:Ap:10:GLY:C	22:Aa:624:C:H4'	2.43	0.43
18:As:16:LEU:O	18:As:19:VAL:N	2.47	0.43
22:Aa:12:U:H2'	22:Aa:13:U:H5"	2.00	0.43
22:Aa:570:G:H2'	22:Aa:571:U:C6	2.53	0.43
22:Aa:577:G:C8	22:Aa:816:A:C6	3.07	0.43
22:Aa:660:G:H2'	22:Aa:661:G:C8	2.53	0.43
22:Aa:763:G:H2'	22:Aa:764:C:C6	2.51	0.43
22:Aa:784:C:H2'	22:Aa:785:G:C8	2.52	0.43
22:Aa:944:G:C4	22:Aa:1340:A:N1	2.86	0.43
22:Aa:1438:G:H2'	22:Aa:1439:C:C6	2.52	0.43
26:AC:175:PRO:HG3	57:AA:2124:G:C5'	2.45	0.43
27:AD:9:TYR:CD2	57:AA:727:A:C2	3.06	0.43
27:AD:65:ILE:HG12	27:AD:66:ASP:N	2.32	0.43
27:AD:215:LEU:HD12	27:AD:217:ARG:HH21	1.82	0.43
27:AD:260:ARG:NH1	27:AD:267:SER:OG	2.51	0.43
28:AE:27:LEU:HD12	28:AE:180:ASN:O	2.19	0.43
29:AF:3:GLU:CB	29:AF:24:LEU:HG	2.47	0.43
30:AG:16:ARG:HG3	30:AG:16:ARG:HH11	1.83	0.43
30:AG:63:ILE:HG23	30:AG:143:GLU:HB2	1.99	0.43
32:AI:28:ASN:CA	32:AI:32:PRO:HG2	2.48	0.43
35:AO:107:ARG:NH2	40:AT:35:LYS:HD2	2.32	0.43
35:AO:120:GLU:CG	35:AO:122:LEU:HD21	2.48	0.43
36:AP:32:THR:CG2	36:AP:37:GLY:HA2	2.36	0.43
40:AT:29:ARG:HG2	40:AT:86:ILE:CG2	2.48	0.43
42:AV:8:GLY:O	57:AA:1161:C:H1'	2.19	0.43
42:AV:79:VAL:CG2	57:AA:1188:U:H4'	2.45	0.43
44:AX:23:GLU:C	44:AX:25:LYS:H	2.21	0.43
44:AX:63:LYS:HD2	57:AA:1312:U:OP2	2.18	0.43
45:AY:13:VAL:HG22	45:AY:14:LEU:N	2.23	0.43
46:AZ:11:GLU:CD	46:AZ:11:GLU:N	2.76	0.43
47:A0:73:GLY:C	47:A0:75:LEU:N	2.71	0.43
53:A6:52:VAL:CG2	53:A6:53:LYS:N	2.76	0.43
56:A9:7:VAL:CG1	56:A9:25:VAL:HG21	2.48	0.43
57:AA:92:A:H2'	57:AA:93:G:O4'	2.18	0.43
57:AA:623:G:H2'	57:AA:624:C:H6	1.83	0.43
57:AA:1011:G:C2	57:AA:1151:G:C2	3.05	0.43
57:AA:1040:C:O2'	57:AA:1041:C:P	2.76	0.43
57:AA:1244:G:C2'	57:AA:1245:G:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1517:G:C5	57:AA:1518:U:C5	3.06	0.43
57:AA:1615:C:C5	57:AA:1617:C:C4	3.05	0.43
57:AA:1668:A:H4'	57:AA:1669:A:O5'	2.18	0.43
57:AA:1704:G:O2'	57:AA:1705:G:H5'	2.18	0.43
57:AA:2001:A:H2'	57:AA:2002:G:C8	2.53	0.43
57:AA:2174:C:O2'	57:AA:2175:C:H5'	2.18	0.43
57:AA:2199:A:H2'	57:AA:2199:A:N3	2.34	0.43
57:AA:2666:C:H5'	57:AA:2667:C:OP2	2.18	0.43
1:Bb:83:MET:SD	1:Bb:234:PRO:HG2	2.58	0.43
1:Bb:168:THR:CG2	1:Bb:192:SER:OG	2.66	0.43
2:Bc:115:LEU:O	2:Bc:116:VAL:C	2.61	0.43
2:Bc:154:SER:O	2:Bc:165:THR:HA	2.18	0.43
3:Bd:189:PRO:HB2	3:Bd:194:LEU:HD21	2.00	0.43
4:Be:71:LEU:CD2	4:Be:115:VAL:HG22	2.48	0.43
6:Bg:20:ASP:C	6:Bg:22:LEU:N	2.74	0.43
6:Bg:62:PHE:CE1	6:Bg:124:LEU:HD11	2.53	0.43
6:Bg:137:LYS:HE2	6:Bg:137:LYS:HB3	1.80	0.43
9:Bj:38:ILE:HG22	22:Ba:1123:A:O2'	2.17	0.43
10:Bk:111:ASP:HA	17:Br:84:LYS:CD	2.49	0.43
11:Bl:53:ARG:HH12	11:Bl:92:ASP:CB	2.26	0.43
12:Bm:3:ARG:HB2	51:B4:34:GLU:HG2	2.00	0.43
22:Ba:494:U:O5'	22:Ba:494:U:H6	2.01	0.43
22:Ba:731:G:OP1	22:Ba:766:A:H1'	2.18	0.43
22:Ba:888:G:H4'	22:Ba:1488:G:O2'	2.17	0.43
22:Ba:1015:A:H2'	22:Ba:1016:A:H8	1.83	0.43
27:BD:32:SER:HA	27:BD:35:LYS:HZ3	1.83	0.43
27:BD:215:LEU:HD12	27:BD:217:ARG:HH21	1.83	0.43
28:BE:47:VAL:O	28:BE:80:GLU:HA	2.17	0.43
29:BF:109:GLY:O	29:BF:110:LEU:C	2.60	0.43
29:BF:115:ALA:O	29:BF:118:ALA:HB3	2.18	0.43
30:BG:72:ARG:HB3	30:BG:86:MET:N	2.34	0.43
30:BG:111:LEU:CB	30:BG:112:PRO:HD3	2.46	0.43
31:BH:70:THR:O	31:BH:71:LEU:C	2.60	0.43
36:BP:62:LEU:HD23	36:BP:63:PRO:C	2.42	0.43
36:BP:110:TYR:CE2	36:BP:111:ARG:NH2	2.85	0.43
36:BP:124:LYS:CD	36:BP:143:GLY:HA3	2.39	0.43
40:BT:14:TYR:N	40:BT:14:TYR:CD1	2.87	0.43
41:BU:92:ARG:CG	57:BA:996:A:H4'	2.47	0.43
42:BV:66:ARG:HH11	42:BV:66:ARG:HG2	1.83	0.43
42:BV:79:VAL:CG2	57:BA:1188:U:H4'	2.48	0.43
43:BW:20:VAL:O	43:BW:23:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:3:VAL:H	45:BY:5:MET:CE	2.30	0.43
45:BY:7:VAL:CG2	45:BY:8:LYS:NZ	2.79	0.43
57:BA:271(O):C:HO2'	57:BA:271(P):C:H6	1.55	0.43
57:BA:271(R):G:O2'	57:BA:271(S):G:H5'	2.18	0.43
57:BA:383:U:H2'	57:BA:385:C:H5	1.83	0.43
57:BA:491:G:H2'	57:BA:492:A:C8	2.54	0.43
57:BA:623:G:H2'	57:BA:624:C:H6	1.83	0.43
57:BA:633:A:N3	57:BA:2403:C:H4'	2.33	0.43
57:BA:673:C:H2'	57:BA:674:G:H5'	1.99	0.43
57:BA:864:G:O2'	57:BA:865:C:H5'	2.18	0.43
57:BA:969:U:H2'	57:BA:970:C:C6	2.53	0.43
57:BA:1039:G:H1	57:BA:1116:C:N4	2.16	0.43
57:BA:1047:G:C8	57:BA:1110:G:N1	2.87	0.43
57:BA:1048:A:OP2	57:BA:1110:G:N2	2.49	0.43
57:BA:1486:A:N1	57:BA:1504:C:N3	2.67	0.43
57:BA:1538:G:H2'	57:BA:1539:G:C8	2.54	0.43
57:BA:1587:A:H2'	57:BA:1588:C:C6	2.54	0.43
57:BA:2192:G:H2'	57:BA:2193:G:C5'	2.48	0.43
57:BA:2246:G:H2'	57:BA:2247:A:C8	2.53	0.43
57:BA:2307:G:N3	57:BA:2307:G:H3'	2.34	0.43
57:BA:2343:C:O2'	57:BA:2344:U:H5'	2.18	0.43
57:BA:2801:A:O2'	57:BA:2895:U:H5'	2.18	0.43
2:Ac:16:ARG:HB2	2:Ac:16:ARG:CZ	2.49	0.43
2:Ac:163:ALA:HB2	22:Aa:1056:U:C5'	2.48	0.43
3:Ad:153:ARG:O	3:Ad:181:MET:HE1	2.18	0.43
3:Ad:177:ASP:O	3:Ad:179:GLU:N	2.52	0.43
5:Af:12:PRO:HG2	5:Af:55:ASP:OD1	2.18	0.43
6:Ag:23:VAL:HG13	6:Ag:43:PHE:CE2	2.53	0.43
12:Am:19:LEU:O	12:Am:22:ILE:HD13	2.18	0.43
12:Am:69:GLU:CB	12:Am:72:ALA:CB	2.93	0.43
16:Aq:94:ASN:O	16:Aq:98:LEU:HD13	2.19	0.43
19:At:74:LYS:CB	19:At:75:ASN:HD22	2.31	0.43
21:Ay:19:GLY:HA3	22:Aa:1051:C:C4'	2.44	0.43
22:Aa:18:C:H2'	22:Aa:19:C:C6	2.53	0.43
22:Aa:36:C:O5'	22:Aa:36:C:H6	2.02	0.43
22:Aa:622:A:C8	22:Aa:623:C:C6	3.06	0.43
22:Aa:702:A:H3'	22:Aa:703:G:H5'	1.99	0.43
22:Aa:774:G:O2'	22:Aa:775:G:H5'	2.17	0.43
22:Aa:781:A:C3'	22:Aa:782:A:H5'	2.48	0.43
26:AC:173:HIS:N	26:AC:173:HIS:CD2	2.83	0.43
27:AD:13:ARG:NH1	57:AA:729:G:OP2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:227:ASN:HB3	27:AD:228:PRO:CD	2.48	0.43
27:AD:246:PRO:HD3	57:AA:1902:C:C5'	2.47	0.43
29:AF:22:ALA:HB1	29:AF:26:ALA:HB1	1.95	0.43
31:AH:35:VAL:O	31:AH:37:VAL:HG23	2.18	0.43
35:AO:107:ARG:HH22	40:AT:35:LYS:HD2	1.83	0.43
35:AO:111:PHE:O	35:AO:115:VAL:HG23	2.18	0.43
36:AP:97:PRO:HG3	36:AP:112:LEU:HG	2.00	0.43
38:AR:107:ASP:OD2	38:AR:107:ASP:C	2.62	0.43
41:AU:8:VAL:O	41:AU:10:ARG:N	2.51	0.43
41:AU:101:ARG:HB2	41:AU:101:ARG:NH1	2.19	0.43
42:AV:39:LEU:CD1	42:AV:51:VAL:HA	2.48	0.43
44:AX:12:VAL:HG11	44:AX:27:THR:CG2	2.48	0.43
48:A1:29:GLY:C	48:A1:30:VAL:HG22	2.43	0.43
49:A2:14:ARG:HD3	49:A2:66:GLU:OE2	2.18	0.43
52:A5:19:ARG:HG3	57:AA:2046:G:H5'	1.99	0.43
57:AA:247:G:H4'	57:AA:386:G:C6	2.53	0.43
57:AA:418:G:O2'	57:AA:419:C:H5'	2.18	0.43
57:AA:2343:C:O2'	57:AA:2344:U:H5'	2.18	0.43
57:AA:2526:G:H5'	57:AA:2742:C:O2'	2.18	0.43
57:AA:2801:A:H5'	57:AA:2801(A):A:C4	2.54	0.43
57:AA:2839:G:H2'	57:AA:2840:C:C6	2.53	0.43
57:AA:2853:C:O2'	57:AA:2854:G:H5'	2.18	0.43
58:AB:48:A:H2'	58:AB:49:C:C6	2.53	0.43
58:AB:111:G:O2'	58:AB:112:U:H5'	2.19	0.43
1:Bb:20:GLU:HB2	1:Bb:190:THR:OG1	2.18	0.43
1:Bb:39:ILE:HG22	1:Bb:40:HIS:N	2.34	0.43
2:Bc:106:VAL:C	2:Bc:108:ASN:H	2.26	0.43
2:Bc:206:GLU:HG2	2:Bc:207:VAL:N	2.20	0.43
3:Bd:187:ARG:HG2	3:Bd:187:ARG:HH11	1.83	0.43
4:Be:148:VAL:C	4:Be:150:ARG:N	2.76	0.43
5:Bf:8:ILE:CG2	5:Bf:9:VAL:N	2.81	0.43
6:Bg:15:ASP:HB3	6:Bg:19:GLY:H	1.83	0.43
8:Bi:111:ARG:CG	8:Bi:112:LYS:N	2.79	0.43
10:Bk:111:ASP:CA	17:Br:84:LYS:HE2	2.48	0.43
12:Bm:29:ARG:HB3	12:Bm:64:TRP:HZ2	1.75	0.43
12:Bm:73:GLU:O	12:Bm:77:ASN:HB2	2.18	0.43
16:Bq:59:ILE:HG22	16:Bq:60:ILE:N	2.33	0.43
16:Bq:66:SER:C	16:Bq:67:LYS:O	2.55	0.43
18:Bs:42:PRO:O	18:Bs:43:GLU:O	2.36	0.43
18:Bs:70:LYS:CG	22:Ba:1320:C:H5'	2.49	0.43
20:Bu:4:GLY:CA	22:Ba:1305:G:H5'	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:109:A:C6	22:Ba:326:G:C6	3.07	0.43
22:Ba:253:U:H2'	22:Ba:254:G:H8	1.83	0.43
22:Ba:501:C:O2'	22:Ba:502:G:H5'	2.17	0.43
22:Ba:577:G:C8	22:Ba:816:A:C6	3.06	0.43
22:Ba:590:C:O2'	22:Ba:591:U:H5'	2.17	0.43
22:Ba:660:G:H2'	22:Ba:661:G:C8	2.53	0.43
22:Ba:662:G:O2'	22:Ba:836:G:C5'	2.67	0.43
22:Ba:1076:C:C2	22:Ba:1082:G:C2	3.06	0.43
22:Ba:1258:G:H2'	22:Ba:1259:C:H6	1.81	0.43
22:Ba:1435:G:H8	22:Ba:1435:G:O5'	2.01	0.43
27:BD:99:ASP:OD1	57:BA:1491:G:H5'	2.18	0.43
29:BF:169:ASN:HD21	57:BA:323:G:H5'	1.83	0.43
29:BF:176:LEU:HG	29:BF:177:ALA:O	2.17	0.43
31:BH:73:ALA:O	31:BH:76:VAL:HB	2.18	0.43
33:BJ:6:ASN:CB	57:BA:1046:A:H8	2.32	0.43
36:BP:23:PRO:CG	36:BP:33:ARG:NE	2.81	0.43
37:BQ:132:VAL:HG11	46:BZ:81:ARG:HH21	1.84	0.43
39:BS:15:ARG:HH11	39:BS:15:ARG:HB2	1.82	0.43
40:BT:58:ASN:C	40:BT:58:ASN:HD22	2.25	0.43
41:BU:93:LYS:NZ	57:BA:998:C:OP2	2.51	0.43
46:BZ:135:GLU:O	46:BZ:136:PHE:C	2.61	0.43
47:B0:36:ILE:HD13	47:B0:58:THR:HG23	2.00	0.43
49:B2:50:ILE:O	49:B2:54:LYS:HG2	2.18	0.43
53:B6:27:LYS:NZ	57:BA:2285:C:OP1	2.50	0.43
55:B8:29:LYS:HD3	55:B8:44:LYS:CG	2.43	0.43
55:B8:40:GLU:O	55:B8:41:ILE:C	2.61	0.43
57:BA:297:C:H2'	57:BA:298:G:O4'	2.17	0.43
57:BA:420:C:H2'	57:BA:421:U:H6	1.83	0.43
57:BA:572:A:H2'	57:BA:573:G:O4'	2.19	0.43
57:BA:1048:A:H4'	57:BA:1049:C:OP1	2.18	0.43
57:BA:1052:C:H3'	57:BA:1052:C:H6	1.84	0.43
57:BA:1451:C:N3	57:BA:1459:G:O6	2.51	0.43
57:BA:2027:G:C6	57:BA:2028:U:C4	3.06	0.43
57:BA:2562:U:H2'	57:BA:2563:U:H5'	2.01	0.43
57:BA:2853:C:O2'	57:BA:2854:G:H5'	2.17	0.43
1:Ab:15:VAL:C	1:Ab:16:HIS:ND1	2.77	0.43
1:Ab:25:ASN:OD1	1:Ab:27:LYS:HG3	2.18	0.43
1:Ab:118:LEU:HB2	1:Ab:142:LEU:HD12	2.00	0.43
2:Ac:37:GLN:C	2:Ac:39:ILE:N	2.76	0.43
2:Ac:125:GLU:CG	2:Ac:190:ARG:H	2.23	0.43
3:Ad:10:ARG:HH22	22:Aa:542:G:P	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ae:139:LEU:C	4:Ae:141:GLN:H	2.26	0.43
5:Af:19:LEU:HD23	5:Af:19:LEU:O	2.18	0.43
6:Ag:154:TYR:O	6:Ag:155:ARG:C	2.62	0.43
7:Ah:3:THR:O	22:Aa:587:G:H4'	2.18	0.43
7:Ah:4:ASP:OD2	7:Ah:7:ALA:HB2	2.18	0.43
7:Ah:9:MET:HE1	7:Ah:32:LYS:O	2.18	0.43
8:Ai:18:PHE:CD1	8:Ai:62:TYR:CD2	3.03	0.43
10:Ak:126:ARG:C	10:Ak:128:ALA:H	2.25	0.43
11:Al:84:LEU:HD22	11:Al:101:VAL:HG21	1.99	0.43
12:Am:57:ARG:O	12:Am:58:GLU:C	2.62	0.43
12:Am:79:LYS:O	12:Am:82:MET:HB3	2.18	0.43
12:Am:82:MET:N	12:Am:93:ARG:HH12	2.15	0.43
12:Am:107:ALA:C	12:Am:109:THR:N	2.74	0.43
14:Ao:63:ARG:HG2	14:Ao:67:LEU:CD1	2.48	0.43
17:Ar:44:LEU:O	17:Ar:45:SER:C	2.61	0.43
21:Ay:8:ASP:HB2	21:Ay:74:PHE:CZ	2.53	0.43
22:Aa:342:C:O2'	22:Aa:343:U:H5'	2.18	0.43
22:Aa:364:A:H2'	22:Aa:365:U:O2	2.18	0.43
22:Aa:922:G:H2'	22:Aa:923:A:C8	2.53	0.43
22:Aa:1090:U:H2'	22:Aa:1091:U:C6	2.54	0.43
22:Aa:1120:G:H1	22:Aa:1153:C:H42	1.67	0.43
22:Aa:1144:G:C2	22:Aa:1145:C:N3	2.87	0.43
27:AD:43:ARG:HB3	27:AD:54:ARG:CB	2.44	0.43
27:AD:136:ILE:HA	27:AD:137:PRO:HD3	1.80	0.43
29:AF:66:PRO:O	29:AF:67:GLN:CB	2.59	0.43
32:AI:5:LEU:O	32:AI:6:LEU:HG	2.18	0.43
34:AN:58:ASP:C	34:AN:60:ILE:HG13	2.43	0.43
36:AP:33:ARG:CZ	57:AA:587:C:H3'	2.48	0.43
36:AP:88:LEU:HD12	36:AP:88:LEU:N	2.34	0.43
39:AS:15:ARG:HH11	39:AS:15:ARG:HB2	1.81	0.43
39:AS:18:ILE:HD12	57:AA:2334:G:H21	1.83	0.43
40:AT:34:VAL:HG12	40:AT:35:LYS:H	1.82	0.43
40:AT:76:PHE:HA	40:AT:77:PRO:HD3	1.79	0.43
43:AW:47:VAL:C	43:AW:50:VAL:HG12	2.44	0.43
45:AY:81:LYS:CD	45:AY:97:ARG:O	2.59	0.43
46:AZ:28:MET:HG2	46:AZ:37:VAL:HG13	2.01	0.43
47:A0:46:LYS:HA	47:A0:47:PRO:HD3	1.81	0.43
48:A1:41:ARG:HD3	48:A1:43:TYR:OH	2.18	0.43
49:A2:35:LEU:HD13	49:A2:50:ILE:HG12	2.01	0.43
49:A2:58:ALA:O	49:A2:61:LEU:N	2.52	0.43
53:A6:8:LYS:HE3	53:A6:25:LYS:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1532:C:H2'	57:AA:1533:G:C5'	2.49	0.43
57:AA:1609:A:C2	57:AA:1616:A:C4	3.06	0.43
57:AA:2517:C:C6	57:AA:2542:A:C2	3.07	0.43
57:AA:2864:G:O2'	57:AA:2865:U:H5'	2.18	0.43
1:Bb:54:THR:HG21	1:Bb:201:ILE:HD11	2.00	0.43
2:Bc:18:TRP:CE3	2:Bc:18:TRP:N	2.84	0.43
2:Bc:23:TYR:CD2	2:Bc:24:ALA:N	2.87	0.43
2:Bc:59:ARG:O	9:Bj:92:THR:O	2.36	0.43
4:Be:5:ASP:HA	4:Be:63:ARG:CZ	2.49	0.43
6:Bg:151:TYR:OH	10:Bk:54:ARG:HD2	2.19	0.43
7:Bh:11:THR:HA	7:Bh:14:ARG:NH1	2.34	0.43
8:Bi:104:ARG:HG2	8:Bi:105:ASP:N	2.30	0.43
9:Bj:38:ILE:HD11	9:Bj:71:LEU:HB3	2.01	0.43
18:Bs:27:GLU:HB3	18:Bs:28:LYS:H	1.67	0.43
18:Bs:70:LYS:HE3	18:Bs:70:LYS:N	2.33	0.43
19:Bt:45:GLN:HB2	19:Bt:91:LEU:HD22	2.00	0.43
22:Ba:38:G:H22	22:Ba:397:A:C5'	2.31	0.43
22:Ba:256:U:H2'	22:Ba:257:G:O4'	2.19	0.43
22:Ba:432:A:N7	22:Ba:433:C:C4	2.87	0.43
22:Ba:696:A:O2'	22:Ba:697:U:H5'	2.19	0.43
22:Ba:1053:G:N7	22:Ba:1200:C:C5'	2.82	0.43
25:Bw:71:C:H4'	57:BA:1851:U:C4'	2.37	0.43
26:BC:175:PRO:HG3	57:BA:2124:G:C5'	2.47	0.43
27:BD:227:ASN:O	27:BD:228:PRO:C	2.61	0.43
27:BD:231:HIS:ND1	27:BD:232:PRO:CD	2.80	0.43
28:BE:2:LYS:HD3	28:BE:95:ILE:HG22	2.00	0.43
28:BE:113:PHE:HB2	57:BA:2823:A:OP1	2.18	0.43
29:BF:63:LYS:HE3	29:BF:67:GLN:CB	2.47	0.43
29:BF:133:ASN:O	29:BF:134:GLY:C	2.62	0.43
29:BF:185:ASP:HA	29:BF:188:ARG:CG	2.49	0.43
30:BG:81:LYS:O	30:BG:82:LEU:C	2.60	0.43
30:BG:86:MET:SD	30:BG:86:MET:C	3.02	0.43
31:BH:41:MET:HG3	31:BH:43:VAL:N	2.32	0.43
32:BI:54:GLN:HA	32:BI:57:ARG:HD2	2.00	0.43
34:BN:28:THR:HG22	34:BN:29:LYS:N	2.33	0.43
36:BP:33:ARG:HD3	57:BA:587:C:C2	2.54	0.43
36:BP:40:SER:HB3	57:BA:832:G:OP1	2.19	0.43
36:BP:72:PRO:HD3	57:BA:389:G:H22	1.82	0.43
36:BP:140:ALA:O	36:BP:141:ALA:HB3	2.17	0.43
37:BQ:35:VAL:CG1	37:BQ:130:LYS:HB3	2.48	0.43
37:BQ:48:GLU:O	37:BQ:52:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BR:28:LEU:HD21	38:BR:114:VAL:HG12	2.01	0.43
40:BT:38:ASN:O	40:BT:40:THR:N	2.48	0.43
40:BT:50:ILE:CD1	40:BT:64:ARG:HB2	2.48	0.43
40:BT:128:GLU:CD	40:BT:129:ARG:N	2.76	0.43
41:BU:3:ARG:HB3	57:BA:445:C:H5"	1.99	0.43
41:BU:66:ASN:O	41:BU:67:ALA:C	2.60	0.43
41:BU:108:GLU:OE2	42:BV:44:LYS:HD3	2.18	0.43
45:BY:62:GLU:CD	45:BY:63:LYS:N	2.77	0.43
46:BZ:27:VAL:HG23	46:BZ:35:ARG:O	2.17	0.43
48:B1:68:PRO:HG2	48:B1:69:LYS:N	2.33	0.43
53:B6:10:LEU:CD2	53:B6:10:LEU:N	2.76	0.43
53:B6:15:GLU:OE1	53:B6:44:ARG:NH2	2.51	0.43
55:B8:61:LEU:HD12	55:B8:62:LEU:H	1.76	0.43
57:BA:142(A):C:O2'	57:BA:143:G:H5'	2.18	0.43
57:BA:272:G:H1'	57:BA:272(B):G:O5'	2.18	0.43
57:BA:488:G:H1'	57:BA:492:A:H62	1.84	0.43
57:BA:783:A:C8	57:BA:784:A:H4'	2.50	0.43
57:BA:1440:G:H2'	57:BA:1441:G:H8	1.83	0.43
57:BA:1833:U:O2'	57:BA:1969:A:N1	2.49	0.43
57:BA:1892:C:O2'	57:BA:1893:C:H5'	2.18	0.43
57:BA:2224:G:H4'	57:BA:2226:C:C2	2.54	0.43
57:BA:2515:C:O2'	57:BA:2516:G:H5'	2.18	0.43
58:BB:13:A:N1	58:BB:69:G:O2'	2.48	0.43
58:BB:30:C:H4'	58:BB:58:A:H2	1.83	0.43
58:BB:79:C:H2'	58:BB:80:U:O4'	2.18	0.43
1:Ab:119:GLU:HB2	1:Ab:153:ARG:HH22	1.84	0.43
1:Ab:223:ILE:HG12	1:Ab:226:ARG:NH2	2.34	0.43
3:Ad:157:LEU:CD1	3:Ad:161:ASN:HD21	2.31	0.43
4:Ae:78:HIS:HD2	7:Ah:104:ARG:HG3	1.82	0.43
7:Ah:26:VAL:HG13	7:Ah:59:LEU:HB2	2.00	0.43
7:Ah:91:ARG:HH11	7:Ah:91:ARG:CG	2.26	0.43
8:Ai:20:ARG:HG3	8:Ai:20:ARG:NH1	2.32	0.43
10:Ak:43:SER:CA	10:Ak:47:VAL:HG21	2.38	0.43
12:Am:40:ASN:HA	12:Am:41:PRO:HD3	1.82	0.43
18:As:42:PRO:O	18:As:43:GLU:O	2.35	0.43
22:Aa:42:G:H2'	22:Aa:43:C:C6	2.53	0.43
22:Aa:149:A:C2	22:Aa:150:C:C4	3.07	0.43
22:Aa:284:G:O2'	22:Aa:285:G:H5'	2.19	0.43
22:Aa:782:A:OP1	22:Aa:1521:G:N2	2.51	0.43
22:Aa:1053:G:N7	22:Aa:1200:C:C5'	2.82	0.43
22:Aa:1338:G:H2'	22:Aa:1339:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AC:166:ASN:HB3	26:AC:172:ILE:CB	2.49	0.43
26:AC:166:ASN:N	26:AC:172:ILE:HG13	2.33	0.43
26:AC:215:VAL:CG2	26:AC:225:ILE:HD11	2.37	0.43
26:AC:216:THR:HB	26:AC:222:SER:CA	2.48	0.43
27:AD:47:GLY:HA2	57:AA:773:U:C5'	2.48	0.43
28:AE:64:LYS:O	28:AE:64:LYS:CG	2.66	0.43
28:AE:113:PHE:CD1	57:AA:1654:A:C2	3.06	0.43
28:AE:176:ILE:HG22	28:AE:179:GLU:H	1.82	0.43
30:AG:45:GLU:H	30:AG:88:ILE:CB	2.32	0.43
30:AG:120:LEU:HG	30:AG:179:PRO:HG2	2.00	0.43
32:AI:57:ARG:HG2	32:AI:57:ARG:O	2.17	0.43
32:AI:58:LEU:C	32:AI:60:GLU:N	2.69	0.43
34:AN:40:PRO:O	41:AU:64:ARG:HG2	2.18	0.43
34:AN:78:TYR:N	34:AN:78:TYR:CD1	2.86	0.43
36:AP:50:ARG:HB3	55:A8:59:LYS:HE2	2.00	0.43
38:AR:117:VAL:CG1	38:AR:118:GLU:N	2.81	0.43
41:AU:31:SER:C	41:AU:33:ARG:N	2.77	0.43
43:AW:73:ALA:O	43:AW:106:ILE:HG12	2.18	0.43
45:AY:62:GLU:CD	45:AY:63:LYS:N	2.76	0.43
46:AZ:19:ARG:CZ	46:AZ:25:PRO:HG3	2.48	0.43
47:A0:37:LEU:N	47:A0:59:LEU:O	2.48	0.43
49:A2:58:ALA:HB1	57:AA:72:U:O2	2.18	0.43
50:A3:46:ASN:ND2	57:AA:850:C:O2'	2.49	0.43
55:A8:4:MET:HE2	57:AA:593:G:C4'	2.48	0.43
57:AA:142:A:H8	57:AA:1408:C:H1'	1.83	0.43
57:AA:188:G:H1'	57:AA:1365:A:N1	2.33	0.43
57:AA:366:C:H5'	57:AA:370:G:H5'	1.99	0.43
57:AA:548:A:C2'	57:AA:549:G:H5'	2.30	0.43
57:AA:1039:G:H1	57:AA:1116:C:N4	2.15	0.43
57:AA:1106:A:C8	57:AA:1107:G:N7	2.86	0.43
57:AA:1164:G:H2'	57:AA:1165:U:C6	2.53	0.43
57:AA:1638:C:H4'	57:AA:2710:C:O2	2.19	0.43
57:AA:2070:G:C2	57:AA:2071:A:C4	3.06	0.43
57:AA:2095:C:H2'	57:AA:2096:U:O4'	2.19	0.43
57:AA:2562:U:H2'	57:AA:2563:U:H5'	2.00	0.43
1:Bb:167:PRO:CG	1:Bb:188:ALA:HB2	2.47	0.43
1:Bb:220:ASP:C	1:Bb:222:ILE:H	2.25	0.43
2:Bc:37:GLN:C	2:Bc:39:ILE:N	2.76	0.43
2:Bc:151:VAL:C	2:Bc:152:ILE:HG13	2.44	0.43
3:Bd:33:MET:HE3	3:Bd:37:PRO:HB3	2.01	0.43
4:Be:129:ILE:O	4:Be:132:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bg:27:ILE:HD13	6:Bg:40:ALA:HB2	2.01	0.43
7:Bh:29:SER:HB3	7:Bh:32:LYS:HD2	1.99	0.43
7:Bh:112:LEU:HB3	7:Bh:133:LEU:HA	2.01	0.43
9:Bj:77:PRO:O	9:Bj:79:ARG:NH1	2.50	0.43
10:Bk:32:ILE:HD13	10:Bk:72:ALA:CB	2.49	0.43
11:Bl:78:GLN:HB3	11:Bl:79:GLU:H	1.66	0.43
12:Bm:33:ALA:HA	12:Bm:59:TYR:HE2	1.83	0.43
17:Br:51:LEU:HA	17:Br:52:PRO:HD3	1.73	0.43
17:Br:69:THR:O	17:Br:72:ARG:HB2	2.18	0.43
20:Bu:13:ILE:HD13	22:Ba:1288:A:H4'	2.01	0.43
22:Ba:164:U:O2'	22:Ba:165:C:H5'	2.19	0.43
22:Ba:760:G:H2'	22:Ba:761:G:C5'	2.49	0.43
22:Ba:937:A:C2	22:Ba:1379:G:C6	3.06	0.43
22:Ba:1238:A:C5	22:Ba:1303:C:H1'	2.53	0.43
22:Ba:1341:U:O2'	22:Ba:1342:C:H5'	2.18	0.43
23:Bx:11:U:H4'	23:Bx:12:A:OP2	2.18	0.43
26:BC:182:PRO:HD2	26:BC:185:LYS:HB2	2.00	0.43
26:BC:185:LYS:HA	26:BC:188:ASP:OD2	2.19	0.43
27:BD:35:LYS:O	27:BD:36:PRO:C	2.58	0.43
27:BD:117:VAL:HG22	27:BD:129:ASN:OD1	2.19	0.43
27:BD:136:ILE:HA	27:BD:137:PRO:HD3	1.79	0.43
28:BE:18:ASP:O	28:BE:19:ARG:HB3	2.17	0.43
28:BE:51:PHE:N	28:BE:74:PRO:HG2	2.33	0.43
30:BG:142:PRO:HB2	30:BG:143:GLU:H	1.64	0.43
33:BJ:80:VAL:C	33:BJ:82:PHE:N	2.73	0.43
34:BN:63:THR:HG21	57:BA:1141:U:P	2.58	0.43
35:BO:87:ILE:HD12	35:BO:91:LEU:HD13	2.00	0.43
40:BT:70:VAL:CG1	40:BT:71:GLY:H	2.29	0.43
41:BU:20:LEU:HB2	41:BU:39:LEU:HD11	1.99	0.43
43:BW:13:SER:O	43:BW:16:LYS:HB2	2.17	0.43
43:BW:24:ILE:HD13	43:BW:36:LEU:HD11	2.01	0.43
43:BW:88:ARG:H	43:BW:93:ALA:H	1.67	0.43
45:BY:32:PRO:C	45:BY:35:TYR:H	2.25	0.43
53:B6:8:LYS:O	53:B6:9:LEU:O	2.37	0.43
57:BA:484:C:H2'	57:BA:485:C:H6	1.83	0.43
57:BA:829:A:N7	57:BA:2247:A:O2'	2.47	0.43
57:BA:1680:U:H2'	57:BA:1681:G:O4'	2.18	0.43
57:BA:1889:A:H1'	57:BA:2087:G:O4'	2.19	0.43
57:BA:2252:G:H2'	57:BA:2253:G:O4'	2.18	0.43
57:BA:2291:U:H2'	57:BA:2292:C:C6	2.54	0.43
57:BA:2705:A:H2'	57:BA:2706:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2801:A:H5'	57:BA:2801(A):A:C4	2.53	0.43
57:BA:2801(A):A:H4'	57:BA:2802:G:C2'	2.48	0.43
57:BA:2832:U:H4'	57:BA:2833:G:H5"	2.01	0.43
58:BB:37:C:N3	58:BB:49:C:O4'	2.51	0.43
1:Ab:92:TYR:CG	1:Ab:151:GLY:HA3	2.54	0.43
1:Ab:194:PRO:HG2	1:Ab:195:ASP:OD1	2.19	0.43
1:Ab:219:VAL:CA	1:Ab:222:ILE:HB	2.48	0.43
2:Ac:173:VAL:N	2:Ac:174:PRO:HD3	2.33	0.43
3:Ad:196:LEU:O	3:Ad:198:VAL:N	2.46	0.43
8:Ai:42:ARG:NH1	8:Ai:71:SER:OG	2.46	0.43
9:Aj:4:ILE:N	9:Aj:4:ILE:CD1	2.81	0.43
11:Al:8:ASN:HD21	22:Aa:585:G:H4'	1.82	0.43
12:Am:51:ALA:O	12:Am:55:ARG:CB	2.67	0.43
12:Am:88:ARG:HA	12:Am:98:VAL:CG1	2.49	0.43
12:Am:91:ARG:CD	18:As:81:ARG:HH22	2.20	0.43
14:Ao:17:ARG:CD	14:Ao:26:GLU:OE1	2.60	0.43
15:Ap:16:HIS:CD2	22:Aa:625:G:H4'	2.54	0.43
17:Ar:56:THR:CB	17:Ar:58:LEU:HD13	2.48	0.43
21:Ay:49:ASP:HB3	21:Ay:51:TYR:CE2	2.53	0.43
21:Ay:62:LEU:HD11	21:Ay:75:VAL:HG12	1.99	0.43
22:Aa:39:G:H2'	22:Aa:40:C:H6	1.84	0.43
22:Aa:401:C:H2'	22:Aa:402:G:C8	2.54	0.43
22:Aa:592:G:C2	22:Aa:593:G:C8	3.06	0.43
22:Aa:962:C:O2'	22:Aa:963:G:H5'	2.18	0.43
22:Aa:1023:G:H2'	22:Aa:1024:G:H5'	2.00	0.43
22:Aa:1141:C:H2'	22:Aa:1142:G:N7	2.34	0.43
22:Aa:1162:C:H2'	22:Aa:1163:C:C6	2.54	0.43
22:Aa:1170:A:H2'	22:Aa:1171:G:O4'	2.18	0.43
23:Ax:18:G:C2	24:Av:35:A:N3	2.86	0.43
27:AD:12:SER:HB2	27:AD:208:LYS:HB3	2.01	0.43
28:AE:24:THR:HG22	28:AE:186:GLY:HA2	2.00	0.43
28:AE:59:VAL:CG1	28:AE:60:ASN:H	2.28	0.43
32:AI:83:ALA:HA	32:AI:89:TYR:H	1.84	0.43
33:AJ:23:SER:O	33:AJ:87:VAL:O	2.36	0.43
34:AN:96:GLU:H	34:AN:96:GLU:CD	2.27	0.43
35:AO:26:LYS:HB2	35:AO:30:ALA:HB2	2.01	0.43
36:AP:70:GLN:HG3	57:AA:389:G:N1	2.34	0.43
37:AQ:48:GLU:O	37:AQ:52:VAL:HG23	2.18	0.43
37:AQ:134:ARG:NH2	46:AZ:122:ARG:NE	2.56	0.43
38:AR:28:LEU:HD12	38:AR:48:VAL:HG21	2.01	0.43
39:AS:35:ILE:HG23	39:AS:53:SER:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AS:53:SER:C	39:AS:55:ALA:N	2.77	0.43
40:AT:107:ASP:CG	40:AT:108:ARG:H	2.24	0.43
41:AU:76:TYR:O	41:AU:77:SER:C	2.61	0.43
41:AU:91:ASP:O	41:AU:92:ARG:C	2.61	0.43
43:AW:75:TYR:CE2	43:AW:104:THR:CB	3.01	0.43
43:AW:88:ARG:NH1	43:AW:94:ASP:OD1	2.52	0.43
46:AZ:144:LEU:N	46:AZ:144:LEU:HD22	2.33	0.43
52:A5:26:THR:HG23	52:A5:26:THR:O	2.17	0.43
52:A5:40:LYS:HZ3	52:A5:46:CYS:CB	2.32	0.43
57:AA:15:G:H1	57:AA:525:U:H3	1.65	0.43
57:AA:302:C:O2'	57:AA:303:U:H5'	2.19	0.43
57:AA:569:U:H5'	57:AA:946:G:H1'	2.00	0.43
57:AA:653:A:H5'	57:AA:654:A:OP2	2.19	0.43
57:AA:718:A:H2'	57:AA:719:C:O4'	2.18	0.43
57:AA:1336:A:O2'	57:AA:1337:G:H5'	2.18	0.43
57:AA:1465:G:O4'	57:AA:1528:A:C8	2.72	0.43
57:AA:2150:U:H2'	57:AA:2151:G:C8	2.54	0.43
57:AA:2236:C:H2'	57:AA:2237:G:H5'	2.01	0.43
57:AA:2318:G:C2'	57:AA:2319:G:OP1	2.66	0.43
57:AA:2752:C:H5'	57:AA:2753:A:OP2	2.18	0.43
57:AA:2884:U:H2'	57:AA:2885:C:H5'	2.00	0.43
1:Bb:22:LYS:HE2	1:Bb:40:HIS:CE1	2.53	0.43
1:Bb:84:GLU:HB3	1:Bb:219:VAL:CG2	2.49	0.43
1:Bb:135:GLN:O	1:Bb:139:LYS:HB2	2.19	0.43
1:Bb:145:LEU:CD1	1:Bb:149:LEU:HD12	2.49	0.43
3:Bd:25:ARG:HB2	22:Ba:409:G:H5'	2.00	0.43
4:Be:92:LYS:HB3	4:Be:119:LEU:HB2	1.99	0.43
4:Be:143:ARG:CG	4:Be:143:ARG:NH1	2.81	0.43
6:Bg:39:ALA:O	6:Bg:40:ALA:C	2.62	0.43
8:Bi:47:LEU:H	8:Bi:47:LEU:HD13	1.84	0.43
9:Bj:5:ARG:HH21	22:Ba:1125:U:H3	1.63	0.43
9:Bj:97:GLU:C	9:Bj:98:ILE:HD12	2.44	0.43
10:Bk:63:LEU:CD2	10:Bk:63:LEU:H	2.31	0.43
11:Bl:27:LEU:HD22	11:Bl:27:LEU:N	2.33	0.43
16:Bq:63:ARG:HG2	16:Bq:64:PRO:N	2.34	0.43
18:Bs:78:ARG:NH2	22:Ba:1223:C:P	2.83	0.43
22:Ba:267:C:H2'	22:Ba:268:C:H6	1.84	0.43
22:Ba:629:G:H2'	22:Ba:630:G:O4'	2.18	0.43
22:Ba:795:C:O5'	22:Ba:795:C:H6	2.01	0.43
22:Ba:826:C:H2'	22:Ba:827:U:H6	1.83	0.43
22:Ba:1027:C:O2	22:Ba:1028:C:N4	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1054:C:C2'	22:Ba:1055:A:H5"	2.49	0.43
22:Ba:1225:A:H2'	22:Ba:1225:A:N3	2.34	0.43
22:Ba:1245:A:O2'	22:Ba:1246:C:H5'	2.18	0.43
22:Ba:1311:G:N2	22:Ba:1327:C:C2	2.87	0.43
27:BD:94:LEU:HD13	27:BD:94:LEU:C	2.42	0.43
28:BE:113:PHE:CD1	57:BA:1654:A:C2	3.06	0.43
30:BG:7:LEU:O	30:BG:8:LYS:C	2.61	0.43
30:BG:99:MET:O	30:BG:102:PHE:HB3	2.19	0.43
31:BH:126:PRO:HG2	31:BH:127:GLU:H	1.83	0.43
32:BI:51:ILE:HG22	32:BI:52:ARG:N	2.34	0.43
34:BN:62:VAL:HG22	34:BN:66:LYS:HD2	2.01	0.43
35:BO:72:PRO:C	35:BO:74:GLY:H	2.26	0.43
35:BO:96:THR:O	35:BO:97:ARG:HG2	2.19	0.43
36:BP:30:THR:O	36:BP:32:THR:N	2.52	0.43
40:BT:94:ALA:HB1	40:BT:99:LEU:HD23	2.00	0.43
40:BT:107:ASP:CG	40:BT:108:ARG:H	2.25	0.43
42:BV:34:GLU:O	42:BV:36:PRO:HD3	2.19	0.43
44:BX:18:TYR:O	44:BX:19:ALA:C	2.62	0.43
44:BX:37:THR:CG2	57:BA:143:G:H1'	2.48	0.43
45:BY:44:ILE:H	45:BY:62:GLU:CD	2.27	0.43
46:BZ:29:TYR:CB	46:BZ:34:ASN:HA	2.49	0.43
49:B2:17:SER:O	49:B2:18:PRO:C	2.61	0.43
52:B5:43:HIS:CD2	57:BA:2815:C:O2'	2.72	0.43
57:BA:158:U:H2'	57:BA:171:G:O5'	2.19	0.43
57:BA:269:U:H1'	57:BA:424:G:N2	2.34	0.43
57:BA:272(E):G:N3	57:BA:364:C:N3	2.67	0.43
57:BA:660:G:O2'	57:BA:661:C:H5'	2.18	0.43
57:BA:848:G:N3	57:BA:933:A:H1'	2.33	0.43
57:BA:1178:C:H2'	57:BA:1179:C:H6	1.83	0.43
57:BA:1316:U:O2'	57:BA:1317:A:H5'	2.19	0.43
57:BA:1529:G:N1	57:BA:1541:G:N2	2.67	0.43
57:BA:2055:C:H5'	57:BA:2056:G:O5'	2.18	0.43
57:BA:2280:G:C2'	57:BA:2281:C:H5'	2.48	0.43
57:BA:2666:C:H5'	57:BA:2667:C:OP2	2.18	0.43
57:BA:2779:U:O2	57:BA:2779:U:O4'	2.36	0.43
58:BB:60:C:C2	58:BB:61:G:C8	3.06	0.43
58:BB:65:C:C2'	58:BB:66:A:H5'	2.49	0.43
1:Ab:72:GLY:O	1:Ab:94:ASN:HA	2.18	0.43
1:Ab:220:ASP:C	1:Ab:222:ILE:H	2.26	0.43
2:Ac:22:TRP:CZ3	2:Ac:32:LEU:HB3	2.53	0.43
4:Ae:144:THR:H	4:Ae:147:ASP:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:113:GLU:CB	6:Ag:119:ARG:HG2	2.23	0.43
6:Ag:147:ALA:C	6:Ag:149:ARG:H	2.27	0.43
7:Ah:77:GLU:HG2	7:Ah:78:GLN:N	2.33	0.43
9:Aj:3:LYS:C	9:Aj:100:THR:HG23	2.44	0.43
9:Aj:13:HIS:CE1	9:Aj:14:LYS:HG3	2.54	0.43
10:Ak:111:ASP:CA	17:Ar:84:LYS:HE2	2.49	0.43
11:Al:33:ARG:HG2	11:Al:60:LEU:HD12	2.00	0.43
12:Am:103:THR:HG21	22:Aa:1226:C:OP2	2.19	0.43
13:An:36:PHE:C	13:An:36:PHE:CD1	2.96	0.43
15:Ap:72:ARG:C	15:Ap:74:LEU:N	2.77	0.43
19:At:40:ALA:C	19:At:42:GLN:N	2.74	0.43
22:Aa:223:U:O2'	22:Aa:224:C:H5'	2.19	0.43
22:Aa:536:C:H2'	22:Aa:537:G:C8	2.54	0.43
22:Aa:612:C:O2'	22:Aa:613:C:H5'	2.18	0.43
22:Aa:782:A:O3'	22:Aa:1515:C:H4'	2.19	0.43
22:Aa:1005:A:H8	22:Aa:1006:C:O4'	2.02	0.43
22:Aa:1195:C:C4	22:Aa:1197:G:C8	3.07	0.43
22:Aa:1320:C:H2'	22:Aa:1321:C:O4'	2.19	0.43
27:AD:139:GLY:O	27:AD:140:THR:C	2.61	0.43
29:AF:129:PHE:CE2	29:AF:163:VAL:HG11	2.53	0.43
29:AF:188:ARG:CA	36:AP:7:ARG:HD3	2.45	0.43
30:AG:111:LEU:O	30:AG:113:ARG:N	2.52	0.43
32:AI:20:ASP:OD1	32:AI:20:ASP:C	2.62	0.43
32:AI:76:THR:OG1	32:AI:139:GLN:NE2	2.52	0.43
36:AP:16:ARG:CD	36:AP:18:ARG:HB2	2.49	0.43
40:AT:28:VAL:C	40:AT:29:ARG:HD3	2.43	0.43
41:AU:92:ARG:NH2	57:AA:996:A:OP2	2.51	0.43
42:AV:9:GLY:O	42:AV:10:LYS:HG3	2.19	0.43
44:AX:58:HIS:HD2	57:AA:1601:G:OP2	2.02	0.43
46:AZ:119:GLU:O	46:AZ:121:HIS:N	2.52	0.43
48:A1:73:LEU:HD12	48:A1:94:LEU:HD12	1.99	0.43
51:A4:1:MET:N	58:AB:44:G:P	2.92	0.43
52:A5:29:THR:CG2	57:AA:2814:C:O2'	2.66	0.43
56:A9:7:VAL:HG21	56:A9:36:GLN:HB2	2.00	0.43
56:A9:9:ARG:CZ	56:A9:16:VAL:HG23	2.47	0.43
56:A9:10:ILE:HD12	56:A9:32:HIS:CG	2.54	0.43
56:A9:15:LYS:NZ	57:AA:2753:A:H1'	2.34	0.43
57:AA:669:G:N3	57:AA:669:G:H2'	2.33	0.43
57:AA:696:G:O2'	57:AA:697:C:H5'	2.19	0.43
57:AA:950:G:C6	57:AA:951:C:C4	3.07	0.43
57:AA:1341:U:P	57:AA:1397:U:H3	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1411:C:O2'	57:AA:1412:A:H5'	2.19	0.43
57:AA:1831:G:C6	57:AA:1832:C:N4	2.87	0.43
57:AA:2547:U:H2'	57:AA:2548:G:C8	2.54	0.43
57:AA:2666:C:H3'	57:AA:2667:C:C6	2.53	0.43
57:AA:2740:A:C6	57:AA:2764:A:C8	3.07	0.43
58:AB:13:A:N1	58:AB:69:G:O2'	2.47	0.43
58:AB:38:C:H42	58:AB:44:G:H1	1.65	0.43
1:Bb:92:TYR:CG	1:Bb:151:GLY:HA3	2.53	0.43
2:Bc:110:ASN:C	2:Bc:112:SER:N	2.77	0.43
3:Bd:33:MET:C	3:Bd:35:ARG:N	2.76	0.43
3:Bd:114:ARG:HG3	3:Bd:114:ARG:NH1	2.33	0.43
4:Be:128:PRO:O	4:Be:129:ILE:C	2.61	0.43
6:Bg:97:GLN:HG2	6:Bg:101:LEU:HD11	2.00	0.43
8:Bi:26:VAL:HG22	8:Bi:61:ALA:HB3	2.01	0.43
8:Bi:118:LYS:O	8:Bi:119:ALA:CB	2.67	0.43
10:Bk:51:LYS:HA	10:Bk:55:LYS:HD3	2.01	0.43
10:Bk:108:ILE:HD12	10:Bk:108:ILE:N	2.33	0.43
11:Bl:124:LYS:HD2	11:Bl:125:PRO:HD2	2.01	0.43
12:Bm:5:ALA:HA	12:Bm:61:GLU:OE2	2.19	0.43
14:Bo:72:ARG:HG2	14:Bo:72:ARG:NH1	2.34	0.43
14:Bo:81:LEU:HD12	14:Bo:85:LEU:HD12	2.01	0.43
17:Br:44:LEU:O	17:Br:45:SER:C	2.62	0.43
17:Br:67:ALA:C	17:Br:69:THR:H	2.27	0.43
21:By:44:LEU:HD13	21:By:45:ARG:N	2.34	0.43
22:Ba:22:G:O2'	22:Ba:23:C:H5'	2.19	0.43
22:Ba:536:C:H2'	22:Ba:537:G:C8	2.53	0.43
22:Ba:563:A:N7	22:Ba:567:G:H1'	2.33	0.43
22:Ba:1403:C:O5'	22:Ba:1403:C:H6	2.02	0.43
26:BC:226:ASN:C	26:BC:228:HIS:H	2.26	0.43
27:BD:242:ARG:HD2	27:BD:242:ARG:N	2.33	0.43
28:BE:89:ASP:O	28:BE:90:THR:O	2.37	0.43
29:BF:165:ARG:HB2	29:BF:165:ARG:NH1	2.34	0.43
30:BG:36:LYS:HE2	30:BG:95:ARG:HH12	1.84	0.43
35:BO:77:ILE:HD11	40:BT:72:VAL:CG1	2.49	0.43
35:BO:111:PHE:O	35:BO:115:VAL:HG23	2.19	0.43
36:BP:18:ARG:HB3	36:BP:18:ARG:CZ	2.48	0.43
40:BT:76:PHE:HA	40:BT:77:PRO:HD3	1.81	0.43
41:BU:92:ARG:O	41:BU:93:LYS:C	2.61	0.43
43:BW:45:TYR:HD2	43:BW:46:PHE:CD1	2.37	0.43
48:B1:86:SER:CB	48:B1:89:GLU:HB2	2.46	0.43
52:B5:35:GLU:O	52:B5:36:CYS:SG	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:315:G:H2'	57:BA:316:C:H6	1.76	0.43
57:BA:437:G:H2'	57:BA:438:G:C8	2.54	0.43
57:BA:440:G:H2'	57:BA:441:U:H6	1.83	0.43
57:BA:469:G:O2'	57:BA:470:A:H5"	2.19	0.43
57:BA:541:C:O2'	57:BA:542:C:H5'	2.18	0.43
57:BA:1317:A:H2'	57:BA:1318:C:H6	1.84	0.43
57:BA:1814:G:H2'	57:BA:1815:A:C8	2.53	0.43
57:BA:2350:C:O2'	57:BA:2351:G:H5'	2.19	0.43
57:BA:2668:G:O2'	57:BA:2669:G:H5'	2.18	0.43
57:BA:2892:A:C8	57:BA:2893:G:H1'	2.53	0.43
58:BB:38:C:N4	58:BB:44:G:H1	2.16	0.43
58:BB:62:C:C2	58:BB:63:G:C8	3.06	0.43
58:BB:111:G:O2'	58:BB:112:U:H5'	2.18	0.43
1:Ab:42:ILE:HD11	1:Ab:202:PRO:C	2.44	0.43
3:Ad:13:ARG:NH2	3:Ad:36:ARG:HD3	2.32	0.43
4:Ae:71:LEU:CD2	4:Ae:115:VAL:HG22	2.49	0.43
5:Af:45:LEU:HD21	5:Af:57:GLN:OE1	2.19	0.43
5:Af:61:LEU:HB3	5:Af:62:TRP:H	1.67	0.43
6:Ag:22:LEU:CD2	6:Ag:62:PHE:HE2	2.32	0.43
6:Ag:59:LEU:O	6:Ag:63:LYS:HB2	2.18	0.43
6:Ag:143:ARG:O	6:Ag:145:ALA:O	2.36	0.43
8:Ai:58:HIS:C	8:Ai:59:PHE:CD1	2.97	0.43
9:Aj:32:ALA:N	9:Aj:78:ASN:HD21	2.02	0.43
9:Aj:81:THR:CG2	9:Aj:85:LEU:HD12	2.49	0.43
17:Ar:71:LYS:HD3	22:Aa:735:C:H5'	2.01	0.43
21:Ay:29:LYS:O	21:Ay:32:GLU:HB3	2.17	0.43
21:Ay:81:ARG:HD2	21:Ay:82:GLU:H	1.84	0.43
22:Aa:504:C:H2'	22:Aa:504:C:O2	2.18	0.43
22:Aa:726:C:O2'	22:Aa:727:G:H5'	2.19	0.43
22:Aa:760:G:C2'	22:Aa:761:G:H5'	2.48	0.43
22:Aa:865:A:H8	22:Aa:865:A:O5'	2.02	0.43
22:Aa:1015:A:H2'	22:Aa:1016:A:H8	1.84	0.43
22:Aa:1141:C:H6	22:Aa:1141:C:H3'	1.83	0.43
22:Aa:1436:U:C2'	22:Aa:1437:C:H5'	2.49	0.43
24:Av:22:G:H2'	24:Av:23:C:H6	1.83	0.43
27:AD:35:LYS:HG2	27:AD:63:ARG:HA	2.00	0.43
27:AD:126:GLN:O	27:AD:127:VAL:C	2.62	0.43
27:AD:259:THR:HG21	57:AA:1803:A:C4'	2.45	0.43
28:AE:24:THR:HG21	28:AE:188:VAL:CG1	2.48	0.43
29:AF:185:ASP:HA	29:AF:188:ARG:CG	2.49	0.43
31:AH:83:TYR:N	31:AH:83:TYR:CD2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:68:LEU:HG	32:AI:72:LEU:CG	2.49	0.43
32:AI:87:LYS:CE	32:AI:121:LYS:HG3	2.47	0.43
33:AJ:67:GLY:HA2	33:AJ:71:LEU:C	2.42	0.43
34:AN:28:THR:HG22	34:AN:29:LYS:N	2.33	0.43
35:AO:5:GLN:NE2	35:AO:20:MET:CE	2.82	0.43
35:AO:7:TYR:CE1	35:AO:44:LYS:HG3	2.54	0.43
35:AO:8:LEU:HD22	35:AO:8:LEU:N	2.34	0.43
36:AP:61:ARG:HD2	36:AP:61:ARG:N	2.33	0.43
39:AS:103:GLU:O	39:AS:104:GLY:C	2.62	0.43
42:AV:34:GLU:O	42:AV:36:PRO:CD	2.67	0.43
43:AW:12:ILE:HB	43:AW:42:ARG:HH12	1.82	0.43
43:AW:70:TYR:O	43:AW:107:LEU:HA	2.19	0.43
44:AX:60:ARG:NH2	54:A7:47:ARG:HH11	2.15	0.43
44:AX:70:LEU:HD23	44:AX:71:GLY:N	2.34	0.43
45:AY:52:SER:O	45:AY:53:PRO:C	2.62	0.43
45:AY:95:LYS:CE	45:AY:101:LYS:H	2.27	0.43
46:AZ:10:ARG:HH21	46:AZ:26:GLY:H	1.66	0.43
46:AZ:35:ARG:CZ	46:AZ:35:ARG:HB3	2.49	0.43
53:A6:11:LEU:HD13	53:A6:11:LEU:H	1.83	0.43
54:A7:13:ALA:O	54:A7:17:GLY:HA3	2.19	0.43
55:A8:50:LEU:O	55:A8:51:ALA:CB	2.65	0.43
56:A9:11:CYS:SG	56:A9:12:ASP:N	2.92	0.43
57:AA:275:G:N3	57:AA:275:G:H5"	2.32	0.43
57:AA:918:A:H1'	58:AB:80:U:O2'	2.19	0.43
57:AA:1176:G:O2'	57:AA:1177:A:H5'	2.19	0.43
57:AA:1478:G:C2	57:AA:1479:G:C8	3.07	0.43
57:AA:1636:C:H2'	57:AA:1637:A:C8	2.54	0.43
57:AA:1637:A:H4'	57:AA:2711:A:O2'	2.19	0.43
57:AA:2481:G:C2'	57:AA:2482:G:OP2	2.66	0.43
57:AA:2532:G:O2'	57:AA:2657:A:N6	2.48	0.43
58:AB:38:C:N4	58:AB:44:G:H1	2.17	0.43
1:Bb:194:PRO:O	1:Bb:196:LEU:N	2.52	0.43
1:Bb:207:ALA:O	1:Bb:209:ARG:N	2.51	0.43
3:Bd:163:GLU:CD	3:Bd:163:GLU:C	2.87	0.43
6:Bg:77:SER:OG	25:Bw:32:C:H4'	2.19	0.43
8:Bi:50:LEU:HD23	8:Bi:85:LEU:HD23	2.01	0.43
13:Bn:4:LYS:C	13:Bn:6:LEU:N	2.75	0.43
16:Bq:17:LYS:NZ	22:Ba:256:U:C5'	2.81	0.43
16:Bq:48:GLU:HB2	16:Bq:50:LYS:HG2	2.00	0.43
20:Bu:13:ILE:O	20:Bu:14:TRP:C	2.61	0.43
22:Ba:302:G:O2'	22:Ba:556:C:H5"	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:451:A:N6	22:Ba:480:U:H2'	2.33	0.43
22:Ba:636:U:H2'	22:Ba:637:G:C8	2.53	0.43
22:Ba:865:A:H5'	22:Ba:1078:U:O4	2.19	0.43
22:Ba:1100:C:HO2'	22:Ba:1102:A:P	2.41	0.43
22:Ba:1307:U:H2'	22:Ba:1308:U:O4'	2.18	0.43
22:Ba:1443:G:N2	22:Ba:1460:A:H1'	2.33	0.43
26:BC:11:LEU:HD13	26:BC:33:LEU:O	2.18	0.43
26:BC:177:GLY:O	26:BC:178:LYS:HD2	2.19	0.43
27:BD:30:GLU:CG	27:BD:63:ARG:CZ	2.96	0.43
27:BD:182:LEU:N	27:BD:272:ALA:HB3	2.34	0.43
28:BE:24:THR:HG22	28:BE:186:GLY:HA2	2.00	0.43
30:BG:38:VAL:HG11	57:BA:2314:C:H5'	2.01	0.43
30:BG:90:LEU:HD12	30:BG:91:ARG:H	1.84	0.43
30:BG:128:ARG:O	30:BG:129:GLY:O	2.37	0.43
31:BH:116:GLU:CD	31:BH:116:GLU:O	2.61	0.43
34:BN:56:ASN:H	34:BN:126:PRO:HA	1.84	0.43
34:BN:78:TYR:N	34:BN:78:TYR:CD1	2.87	0.43
40:BT:55:ASN:ND2	40:BT:58:ASN:HD21	2.17	0.43
40:BT:119:LYS:NZ	57:BA:2867:G:OP2	2.46	0.43
41:BU:53:ARG:HA	41:BU:56:ASP:OD2	2.18	0.43
43:BW:31:GLU:O	43:BW:35:ILE:HG12	2.18	0.43
45:BY:14:LEU:HG	45:BY:15:VAL:O	2.18	0.43
45:BY:50:ARG:HG3	57:BA:484:C:OP1	2.19	0.43
45:BY:52:SER:N	45:BY:53:PRO:HD2	2.33	0.43
46:BZ:70:LEU:HD23	46:BZ:70:LEU:HA	1.90	0.43
46:BZ:167:PRO:O	46:BZ:168:GLU:HB2	2.19	0.43
48:B1:75:GLU:C	48:B1:77:ALA:H	2.26	0.43
51:B4:47:GLN:HB3	51:B4:48:ARG:H	1.73	0.43
57:BA:638:G:H2'	57:BA:639:U:C6	2.54	0.43
57:BA:675:A:C8	57:BA:804:A:C6	3.07	0.43
57:BA:999:U:H5"	57:BA:1154:G:O6	2.19	0.43
57:BA:1360:A:H5'	57:BA:1361:G:OP2	2.19	0.43
57:BA:1385:G:H4'	57:BA:1386:C:OP1	2.19	0.43
57:BA:1542:A:C8	57:BA:1544:A:H5"	2.53	0.43
57:BA:1858:G:O2'	57:BA:1884:A:N6	2.52	0.43
57:BA:1937:A:C8	57:BA:1939:U:H2'	2.54	0.43
57:BA:2202:C:H2'	57:BA:2203:U:O4'	2.18	0.43
57:BA:2439:A:C8	57:BA:2439:A:H5'	2.54	0.43
57:BA:2476:A:O2'	57:BA:2477:C:H5"	2.18	0.43
57:BA:2521:C:O2	57:BA:2521:C:H2'	2.18	0.43
58:BB:10:C:O5'	58:BB:10:C:H6	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:50:ALA:HB1	2:Ac:70:VAL:HG11	2.01	0.43
2:Ac:89:GLU:HG3	2:Ac:93:LYS:NZ	2.33	0.43
2:Ac:195:VAL:HG22	22:Aa:1205:U:H4'	2.01	0.43
3:Ad:9:CYS:HB3	3:Ad:32:ALA:HB2	2.00	0.43
6:Ag:69:VAL:O	6:Ag:71:PRO:HD3	2.19	0.43
8:Ai:11:LYS:O	8:Ai:12:GLU:C	2.62	0.43
9:Aj:48:THR:HG21	22:Aa:975:A:H61	1.84	0.43
9:Aj:55:LYS:HG2	22:Aa:972:C:C2'	2.49	0.43
10:Ak:124:LYS:NZ	10:Ak:125:PHE:HE1	2.11	0.43
15:Ap:34:GLU:OE1	15:Ap:55:ARG:NH1	2.52	0.43
18:As:31:ILE:HG23	18:As:31:ILE:O	2.19	0.43
21:Ay:24:GLU:HA	21:Ay:24:GLU:OE1	2.18	0.43
22:Aa:267:C:H2'	22:Aa:268:C:H6	1.82	0.43
22:Aa:594:G:O2'	22:Aa:595:G:H5'	2.19	0.43
22:Aa:754:C:H3'	22:Aa:754:C:O2	2.19	0.43
22:Aa:1055:A:H62	22:Aa:1200:C:H42	1.67	0.43
22:Aa:1245:A:N1	22:Aa:1293:G:C6	2.87	0.43
22:Aa:1269:A:C2	22:Aa:1313:U:H1'	2.54	0.43
22:Aa:1311:G:N2	22:Aa:1327:C:C2	2.87	0.43
22:Aa:1462:G:O2'	22:Aa:1463:C:H5'	2.18	0.43
24:Av:19:G:N3	24:Av:57:A:C2	2.87	0.43
26:AC:167:ASP:OD1	26:AC:169:THR:N	2.49	0.43
28:AE:134:ILE:HD13	57:AA:2579:C:O4'	2.19	0.43
30:AG:34:LEU:CD1	30:AG:172:LEU:HD11	2.49	0.43
32:AI:1:MET:HG3	32:AI:23:PRO:HG3	2.00	0.43
32:AI:85:GLU:O	32:AI:123:LEU:HD13	2.19	0.43
36:AP:123:LEU:HD12	36:AP:123:LEU:O	2.19	0.43
37:AQ:35:VAL:CG1	37:AQ:130:LYS:HB3	2.49	0.43
38:AR:7:GLY:O	38:AR:8:ARG:CB	2.67	0.43
38:AR:24:GLN:O	38:AR:25:ALA:C	2.60	0.43
38:AR:98:LEU:O	38:AR:113:LEU:HD22	2.19	0.43
39:AS:35:ILE:CG2	39:AS:53:SER:HB2	2.49	0.43
39:AS:54:LEU:HD13	39:AS:57:LYS:HD2	2.01	0.43
40:AT:10:VAL:O	40:AT:13:ARG:CG	2.66	0.43
40:AT:58:ASN:C	40:AT:58:ASN:HD22	2.25	0.43
41:AU:112:ARG:CZ	42:AV:46:VAL:HG11	2.48	0.43
43:AW:18:ARG:O	43:AW:19:LEU:C	2.61	0.43
43:AW:65:LEU:HD23	43:AW:68:ARG:CD	2.49	0.43
45:AY:32:PRO:O	45:AY:35:TYR:N	2.38	0.43
45:AY:44:ILE:O	45:AY:45:VAL:C	2.62	0.43
45:AY:62:GLU:OE2	45:AY:63:LYS:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AZ:53:ILE:C	46:AZ:53:ILE:HD12	2.44	0.43
48:A1:8:SER:HB3	48:A1:66:HIS:CE1	2.54	0.43
49:A2:48:HIS:O	49:A2:49:LYS:C	2.62	0.43
54:A7:34:ARG:O	54:A7:35:ARG:C	2.62	0.43
57:AA:20:C:O2'	57:AA:21:A:H5'	2.18	0.43
57:AA:26:G:O2'	57:AA:27:G:H5'	2.19	0.43
57:AA:269:U:H1'	57:AA:424:G:N2	2.34	0.43
57:AA:887:A:N3	57:AA:889:C:OP2	2.52	0.43
57:AA:1145:C:H2'	57:AA:1146:C:H6	1.84	0.43
57:AA:1313:U:H2'	57:AA:1610:A:N1	2.34	0.43
57:AA:1316:U:O2'	57:AA:1317:A:H5'	2.19	0.43
57:AA:1360:A:H5'	57:AA:1361:G:OP2	2.19	0.43
57:AA:1472:A:H2'	57:AA:1473:G:O4'	2.19	0.43
57:AA:2182:G:H2'	57:AA:2183:C:H6	1.80	0.43
57:AA:2562:U:C2'	57:AA:2563:U:H5'	2.49	0.43
57:AA:2654:A:H62	57:AA:2667:C:N4	2.17	0.43
58:AB:13:A:H2'	58:AB:70:C:O2'	2.19	0.43
2:Bc:138:VAL:HG13	2:Bc:149:ALA:CB	2.49	0.43
3:Bd:9:CYS:SG	3:Bd:22:LYS:CD	3.03	0.43
3:Bd:92:VAL:O	3:Bd:96:LEU:HD13	2.18	0.43
4:Be:57:LYS:HE2	4:Be:61:TYR:CE2	2.46	0.43
4:Be:104:ALA:O	4:Be:107:ARG:HB3	2.19	0.43
4:Be:136:MET:C	4:Be:138:ALA:N	2.76	0.43
5:Bf:30:LEU:HB3	5:Bf:35:ALA:HB3	2.01	0.43
6:Bg:37:ASN:C	6:Bg:39:ALA:H	2.27	0.43
7:Bh:20:TYR:HD1	7:Bh:65:TYR:HD2	1.66	0.43
8:Bi:20:ARG:HG3	8:Bi:20:ARG:NH1	2.33	0.43
8:Bi:99:LEU:HD12	8:Bi:101:PHE:HE1	1.83	0.43
12:Bm:33:ALA:HA	12:Bm:59:TYR:CE2	2.54	0.43
12:Bm:89:GLY:O	12:Bm:92:HIS:CB	2.67	0.43
19:Bt:74:LYS:CB	19:Bt:75:ASN:HD22	2.32	0.43
19:Bt:103:GLY:HA2	22:Ba:192:U:H1'	2.01	0.43
22:Ba:35:G:H2'	22:Ba:36:C:C6	2.53	0.43
22:Ba:104:G:C2	22:Ba:105:G:C8	3.06	0.43
22:Ba:861:G:O2'	22:Ba:862:C:H5'	2.19	0.43
22:Ba:1077:G:N2	22:Ba:1080:A:OP2	2.30	0.43
22:Ba:1251:A:H1'	22:Ba:1369:C:O2'	2.19	0.43
22:Ba:1444:C:H2'	22:Ba:1445:C:C6	2.53	0.43
27:BD:65:ILE:HD11	27:BD:67:PHE:CD2	2.54	0.43
27:BD:119:ALA:HB2	27:BD:130:ALA:HB3	2.00	0.43
27:BD:166:GLN:NE2	27:BD:166:GLN:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:69:LYS:HZ3	28:BE:89:ASP:HA	1.78	0.43
28:BE:70:ALA:O	28:BE:71:GLY:C	2.61	0.43
28:BE:133:LYS:C	28:BE:134:ILE:HG22	2.44	0.43
30:BG:118:ARG:HG2	30:BG:181:ARG:HG3	2.00	0.43
31:BH:41:MET:HG3	31:BH:43:VAL:HG13	1.93	0.43
31:BH:136:ILE:HG22	31:BH:136:ILE:O	2.18	0.43
35:BO:49:ARG:N	35:BO:49:ARG:HD3	2.34	0.43
35:BO:104:ARG:HE	40:BT:33:LYS:HD2	1.82	0.43
37:BQ:10:ARG:NH1	37:BQ:10:ARG:CB	2.78	0.43
39:BS:51:ALA:CB	39:BS:73:LEU:HB2	2.44	0.43
39:BS:54:LEU:HD11	39:BS:57:LYS:HE3	2.00	0.43
40:BT:120:ARG:HA	40:BT:123:GLN:OE1	2.18	0.43
41:BU:62:ILE:HG12	41:BU:76:TYR:CE1	2.54	0.43
42:BV:20:LEU:N	42:BV:20:LEU:HD12	2.34	0.43
43:BW:65:LEU:HD23	43:BW:68:ARG:HD2	2.00	0.43
43:BW:96:ILE:HG12	57:BA:2012:G:O3'	2.19	0.43
50:B3:8:LEU:HB2	50:B3:28:LEU:HD13	2.01	0.43
51:B4:11:PRO:O	51:B4:29:PRO:HG3	2.19	0.43
57:BA:27:G:N2	57:BA:513:A:OP2	2.52	0.43
57:BA:191:A:H2'	57:BA:192:C:H6	1.83	0.43
57:BA:569:U:H5'	57:BA:946:G:H1'	2.01	0.43
57:BA:848:G:O6	57:BA:928:G:H2'	2.19	0.43
57:BA:1039:G:N1	57:BA:1040:C:N4	2.67	0.43
57:BA:1045:A:H5"	57:BA:1047:G:N3	2.33	0.43
57:BA:1145:C:H2'	57:BA:1146:C:H6	1.83	0.43
57:BA:1411:C:O2'	57:BA:1412:A:H5'	2.19	0.43
57:BA:1573:G:H2'	57:BA:1574:C:H5'	2.00	0.43
57:BA:1679:U:C2'	57:BA:1680:U:H5'	2.49	0.43
57:BA:1980:G:O2'	57:BA:1982:C:OP2	2.35	0.43
57:BA:2481:G:C2'	57:BA:2482:G:OP2	2.67	0.43
58:BB:28:C:H2'	58:BB:29:A:C8	2.54	0.43
58:BB:55:U:H2'	58:BB:56:G:H8	1.83	0.43
1:Ab:102:LEU:O	1:Ab:105:PHE:HB2	2.19	0.42
1:Ab:168:THR:CG2	1:Ab:192:SER:OG	2.66	0.42
1:Ab:207:ALA:O	1:Ab:209:ARG:N	2.52	0.42
2:Ac:207:VAL:O	2:Ac:207:VAL:HG12	2.19	0.42
3:Ad:173:TRP:HA	3:Ad:187:ARG:HH12	1.84	0.42
3:Ad:177:ASP:O	3:Ad:178:VAL:C	2.62	0.42
4:Ae:88:LYS:HB3	4:Ae:123:LEU:O	2.19	0.42
4:Ae:146:ALA:O	4:Ae:147:ASP:C	2.62	0.42
6:Ag:69:VAL:HG12	6:Ag:100:ALA:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ah:64:LYS:HG2	7:Ah:79:VAL:HG21	2.00	0.42
9:Aj:34:VAL:HG13	9:Aj:73:ASP:C	2.44	0.42
10:Ak:40:ILE:HG22	10:Ak:75:TYR:CD2	2.54	0.42
10:Ak:96:ARG:C	10:Ak:98:LEU:N	2.77	0.42
14:Ao:54:ARG:HG2	14:Ao:58:MET:HE2	2.01	0.42
17:Ar:27:GLY:O	17:Ar:29:PHE:N	2.48	0.42
17:Ar:49:LYS:HA	22:Aa:719:C:O2	2.19	0.42
20:Au:18:TYR:HA	20:Au:22:ARG:HD3	2.01	0.42
21:Ay:87:TYR:CZ	23:Ax:20:A:H2'	2.51	0.42
22:Aa:226:G:O2'	22:Aa:227:G:H5'	2.19	0.42
22:Aa:662:G:H2'	22:Aa:663:A:H8	1.83	0.42
22:Aa:792:A:N3	22:Aa:794:A:C5	2.87	0.42
22:Aa:811:C:H4'	22:Aa:900:A:H61	1.80	0.42
22:Aa:1073:U:H2'	22:Aa:1074:G:H8	1.83	0.42
22:Aa:1307:U:H2'	22:Aa:1308:U:O4'	2.19	0.42
22:Aa:1321:C:H5'	22:Aa:1322:C:H5'	1.96	0.42
22:Aa:1422:G:O3'	35:AO:49:ARG:NH2	2.53	0.42
25:Aw:4:G:C6	25:Aw:70:G:N1	2.87	0.42
27:AD:206:LEU:HD23	27:AD:206:LEU:HA	1.75	0.42
27:AD:262:ARG:HD3	57:AA:2086:U:OP1	2.19	0.42
28:AE:32:PRO:O	28:AE:34:VAL:N	2.52	0.42
28:AE:81:ILE:HG22	28:AE:81:ILE:O	2.19	0.42
29:AF:65:TRP:CZ3	29:AF:72:ARG:HB3	2.54	0.42
29:AF:99:TYR:CD2	57:AA:660:G:H5'	2.54	0.42
29:AF:113:ALA:HB1	29:AF:186:ILE:HG21	2.01	0.42
30:AG:163:ALA:HB3	30:AG:169:ALA:HB2	2.01	0.42
31:AH:148:ILE:O	31:AH:151:ILE:HG12	2.18	0.42
36:AP:117:GLU:OE2	57:AA:637:A:H2'	2.19	0.42
36:AP:125:VAL:O	36:AP:125:VAL:HG22	2.18	0.42
37:AQ:21:THR:O	37:AQ:21:THR:CG2	2.66	0.42
38:AR:33:ARG:HD2	38:AR:33:ARG:N	2.33	0.42
38:AR:67:LEU:HD13	38:AR:67:LEU:O	2.19	0.42
39:AS:27:SER:HA	39:AS:88:ASP:HB3	2.01	0.42
39:AS:108:GLY:HA3	57:AA:2376:A:O2'	2.20	0.42
41:AU:66:ASN:O	41:AU:67:ALA:C	2.62	0.42
41:AU:95:LEU:HD13	42:AV:4:ILE:CG2	2.49	0.42
41:AU:108:GLU:HG3	42:AV:44:LYS:HZ2	1.84	0.42
43:AW:20:VAL:O	43:AW:23:LEU:N	2.52	0.42
43:AW:65:LEU:HD23	43:AW:68:ARG:HD2	2.01	0.42
44:AX:12:VAL:HG23	44:AX:13:LEU:N	2.29	0.42
44:AX:18:TYR:O	44:AX:21:PHE:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AZ:28:MET:HE2	46:AZ:59:LEU:HD12	2.01	0.42
46:AZ:167:PRO:O	46:AZ:168:GLU:HB2	2.19	0.42
48:A1:25:LYS:HE3	48:A1:31:GLY:HA3	2.01	0.42
50:A3:17:LYS:HG2	57:AA:969:U:OP1	2.19	0.42
52:A5:29:THR:HG21	57:AA:2814:C:O2'	2.19	0.42
52:A5:51:TYR:O	52:A5:53:ALA:N	2.50	0.42
57:AA:70:G:H21	57:AA:71:A:H62	1.67	0.42
57:AA:158:U:H2'	57:AA:171:G:O5'	2.19	0.42
57:AA:231:C:C5	57:AA:232:G:C6	3.07	0.42
57:AA:635:C:O2'	57:AA:636:G:H5'	2.19	0.42
57:AA:828:U:H3'	57:AA:828:U:O2	2.18	0.42
57:AA:847:U:OP2	57:AA:928:G:O6	2.37	0.42
57:AA:889:C:O2'	57:AA:890:A:O5'	2.29	0.42
57:AA:1536:C:O2'	57:AA:1537:G:H5'	2.19	0.42
57:AA:1572:A:O2'	57:AA:1573:G:H5'	2.19	0.42
57:AA:1814:G:H2'	57:AA:1815:A:C8	2.53	0.42
57:AA:1907:G:C6	57:AA:1908:C:C4	3.07	0.42
57:AA:2553:G:H2'	57:AA:2554:U:C4'	2.49	0.42
57:AA:2602:A:H4'	57:AA:2603:G:C5'	2.48	0.42
58:AB:60:C:C2	58:AB:61:G:C8	3.07	0.42
1:Bb:17:PHE:CG	1:Bb:44:LEU:HD11	2.54	0.42
2:Bc:89:GLU:HG3	2:Bc:93:LYS:NZ	2.34	0.42
3:Bd:58:LEU:O	3:Bd:61:LYS:HB3	2.18	0.42
6:Bg:73:MET:HG2	6:Bg:90:GLU:HA	2.01	0.42
6:Bg:113:GLU:CB	6:Bg:119:ARG:HG2	2.23	0.42
9:Bj:16:LEU:CD2	9:Bj:94:VAL:HG13	2.37	0.42
9:Bj:36:GLY:HA3	22:Ba:1123:A:C5'	2.49	0.42
10:Bk:21:ILE:HG13	10:Bk:30:VAL:HG12	2.00	0.42
10:Bk:65:ALA:HB1	10:Bk:98:LEU:HD23	2.01	0.42
12:Bm:79:LYS:O	12:Bm:82:MET:HB3	2.19	0.42
16:Bq:51:TYR:CD2	16:Bq:57:VAL:HG11	2.53	0.42
20:Bu:10:ARG:HA	20:Bu:13:ILE:HB	2.01	0.42
21:By:7:PHE:CD2	21:By:75:VAL:HB	2.54	0.42
21:By:22:VAL:O	21:By:24:GLU:N	2.51	0.42
22:Ba:438:G:H2'	22:Ba:494:U:C4	2.54	0.42
22:Ba:547:A:H4'	22:Ba:548:G:O5'	2.19	0.42
22:Ba:586:C:C2'	22:Ba:587:G:H5'	2.49	0.42
22:Ba:652:U:O4	22:Ba:752:G:O2'	2.35	0.42
22:Ba:677:U:O2'	22:Ba:678:U:H5'	2.19	0.42
22:Ba:745:C:OP1	22:Ba:851:G:O2'	2.36	0.42
22:Ba:962:C:O2'	22:Ba:963:G:H5'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1329:A:C2	22:Ba:1330:U:C2	3.06	0.42
24:Bv:40:C:H2'	24:Bv:41:C:C6	2.54	0.42
27:BD:126:GLN:O	27:BD:127:VAL:C	2.61	0.42
28:BE:47:VAL:HG22	28:BE:49:LEU:CD2	2.49	0.42
29:BF:4:VAL:HG13	29:BF:19:GLU:OE2	2.19	0.42
29:BF:169:ASN:HB2	57:BA:322:A:P	2.59	0.42
30:BG:130:ASN:HD22	30:BG:160:VAL:HA	1.84	0.42
34:BN:3:THR:C	34:BN:5:VAL:N	2.64	0.42
34:BN:115:ARG:O	34:BN:118:LYS:HB2	2.19	0.42
37:BQ:9:TYR:OH	57:BA:911:A:H2'	2.19	0.42
37:BQ:109:VAL:HG11	37:BQ:113:GLN:HB3	2.01	0.42
39:BS:12:PHE:C	39:BS:13:ARG:HG2	2.43	0.42
39:BS:99:LYS:C	39:BS:101:LEU:N	2.76	0.42
40:BT:55:ASN:H	40:BT:59:THR:CG2	2.31	0.42
42:BV:20:LEU:C	42:BV:21:ARG:HD3	2.45	0.42
43:BW:4:LYS:HG2	43:BW:5:ALA:N	2.34	0.42
44:BX:29:TRP:CZ3	44:BX:59:VAL:HG21	2.53	0.42
45:BY:15:VAL:CG1	45:BY:16:ALA:N	2.82	0.42
48:B1:23:LYS:HD3	48:B1:28:GLY:HA3	2.01	0.42
51:B4:20:ASN:C	51:B4:20:ASN:HD22	2.27	0.42
52:B5:40:LYS:HD3	52:B5:46:CYS:HB3	2.00	0.42
53:B6:24:GLU:OE2	53:B6:37:ARG:NH2	2.52	0.42
57:BA:19:C:O2'	57:BA:20:C:H5'	2.19	0.42
57:BA:271(O):C:O2'	57:BA:271(P):C:C6	2.68	0.42
57:BA:418:G:O2'	57:BA:419:C:H5'	2.19	0.42
57:BA:635:C:O2'	57:BA:636:G:H5'	2.19	0.42
57:BA:718:A:H2'	57:BA:719:C:O4'	2.19	0.42
57:BA:1037:G:H1	57:BA:1118:C:N4	2.16	0.42
57:BA:1048:A:N6	57:BA:1106:A:N6	2.67	0.42
57:BA:1281:G:H5'	57:BA:1281:G:C8	2.54	0.42
57:BA:1288:U:C2	57:BA:1327:C:O2	2.72	0.42
57:BA:2150:U:H2'	57:BA:2151:G:C8	2.53	0.42
57:BA:2307:G:OP1	57:BA:2307:G:H4'	2.19	0.42
57:BA:2619:C:O2'	57:BA:2620:C:H5'	2.18	0.42
57:BA:2682:U:H5'	57:BA:2682:U:H6	1.84	0.42
1:Ab:37:ASN:O	1:Ab:37:ASN:OD1	2.37	0.42
1:Ab:74:LYS:CD	1:Ab:166:ASP:HB2	2.49	0.42
1:Ab:103:THR:OG1	1:Ab:104:ASN:N	2.52	0.42
3:Ad:33:MET:C	3:Ad:35:ARG:N	2.76	0.42
4:Ae:32:VAL:HG21	4:Ae:55:VAL:HG12	1.99	0.42
6:Ag:39:ALA:C	6:Ag:41:ARG:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ah:120:THR:H	7:Ah:123:GLU:HB2	1.84	0.42
9:Aj:20:ALA:C	9:Aj:22:LYS:H	2.27	0.42
10:Ak:21:ILE:HB	10:Ak:84:VAL:HA	2.00	0.42
10:Ak:34:ASP:HB2	10:Ak:35:PRO:HD3	1.99	0.42
13:An:3:ARG:CD	22:Aa:1203:C:OP1	2.68	0.42
16:Aq:3:LYS:HD2	16:Aq:60:ILE:HD11	2.00	0.42
16:Aq:27:PHE:HA	16:Aq:28:PRO:HD3	1.83	0.42
22:Aa:12:U:C2'	22:Aa:13:U:H5"	2.49	0.42
22:Aa:153:C:H2'	22:Aa:154:C:C6	2.54	0.42
22:Aa:383:A:C2'	22:Aa:384:G:H5'	2.49	0.42
22:Aa:953:G:O6	22:Aa:1228:C:N4	2.52	0.42
22:Aa:1130:A:C2	22:Aa:1146:A:N3	2.87	0.42
22:Aa:1346:A:H61	22:Aa:1374:A:H3'	1.84	0.42
23:Ax:11:U:H4'	23:Ax:12:A:OP2	2.18	0.42
25:Aw:29:G:H2'	25:Aw:30:G:H8	1.85	0.42
26:AC:185:LYS:HA	26:AC:188:ASP:OD2	2.18	0.42
27:AD:28:GLU:CD	27:AD:29:PRO:HD2	2.44	0.42
28:AE:73:GLU:HA	28:AE:74:PRO:HD3	1.71	0.42
29:AF:169:ASN:HD21	57:AA:323:G:H5'	1.84	0.42
30:AG:71:THR:CG2	57:AA:2312:U:H4'	2.47	0.42
30:AG:96:ARG:O	30:AG:97:ASP:C	2.62	0.42
30:AG:111:LEU:C	30:AG:113:ARG:N	2.76	0.42
30:AG:117:PHE:HZ	30:AG:120:LEU:HD23	1.84	0.42
31:AH:41:MET:HG3	31:AH:43:VAL:N	2.33	0.42
31:AH:87:LEU:C	31:AH:88:LEU:HD13	2.44	0.42
34:AN:56:ASN:H	34:AN:126:PRO:HA	1.85	0.42
36:AP:60:MET:O	57:AA:2393:A:O4'	2.36	0.42
36:AP:95:VAL:CG2	36:AP:125:VAL:HG23	2.49	0.42
41:AU:53:ARG:HA	41:AU:56:ASP:OD2	2.18	0.42
43:AW:88:ARG:H	43:AW:93:ALA:H	1.67	0.42
47:A0:36:ILE:O	47:A0:36:ILE:HG13	2.19	0.42
48:A1:27:GLU:O	48:A1:28:GLY:C	2.62	0.42
57:AA:444:C:O2'	57:AA:445:C:H5'	2.19	0.42
57:AA:660:G:O2'	57:AA:661:C:H5'	2.18	0.42
57:AA:873:G:N2	57:AA:905:U:C2	2.87	0.42
57:AA:987:G:O2'	57:AA:1000:A:N3	2.44	0.42
57:AA:1107:G:H2'	57:AA:1108:U:O5'	2.19	0.42
57:AA:2164:C:H2'	57:AA:2165:G:H5'	2.01	0.42
57:AA:2585:U:O2	57:AA:2585:U:O4'	2.37	0.42
57:AA:2831:G:O4'	57:AA:2883:A:C2	2.71	0.42
1:Bb:42:ILE:HD11	1:Bb:202:PRO:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:46:GLU:O	2:Bc:47:LEU:CB	2.67	0.42
2:Bc:113:ALA:HB2	2:Bc:202:ILE:HG12	2.00	0.42
5:Bf:16:GLN:H	5:Bf:16:GLN:NE2	2.17	0.42
6:Bg:111:ARG:HB3	6:Bg:112:PRO:HD2	2.02	0.42
8:Bi:11:LYS:O	8:Bi:12:GLU:C	2.61	0.42
8:Bi:113:LYS:N	8:Bi:113:LYS:HD2	2.33	0.42
8:Bi:120:ARG:HH12	22:Ba:1346:A:H5"	1.83	0.42
9:Bj:8:LEU:HB3	9:Bj:16:LEU:HD21	2.02	0.42
11:Bl:33:ARG:HG2	11:Bl:60:LEU:HD12	2.01	0.42
12:Bm:9:ILE:HD12	12:Bm:9:ILE:H	1.84	0.42
12:Bm:111:LYS:CE	22:Ba:1227:A:OP2	2.66	0.42
16:Bq:22:LEU:CD1	16:Bq:39:SER:HB2	2.46	0.42
22:Ba:766:A:H2'	22:Ba:767:A:O4'	2.19	0.42
22:Ba:1217:C:H2'	22:Ba:1218:C:O4'	2.19	0.42
22:Ba:1363(A):A:C1'	22:Ba:1365:G:N7	2.81	0.42
25:Bw:56:C:O2'	25:Bw:57:A:H5'	2.19	0.42
26:BC:216:THR:HB	26:BC:222:SER:CA	2.46	0.42
27:BD:101:GLU:HG2	27:BD:102:LYS:N	2.34	0.42
27:BD:158:ALA:HB3	27:BD:161:THR:CG2	2.49	0.42
28:BE:97:LYS:O	28:BE:98:PRO:C	2.61	0.42
29:BF:28:ILE:O	29:BF:30:PRO:HD3	2.19	0.42
29:BF:45:ARG:HD2	57:BA:443:A:C5	2.53	0.42
29:BF:170:LEU:HD12	29:BF:170:LEU:HA	1.89	0.42
30:BG:104:GLU:C	30:BG:106:LEU:N	2.77	0.42
30:BG:106:LEU:C	30:BG:108:ASN:N	2.75	0.42
30:BG:111:LEU:N	30:BG:112:PRO:CD	2.83	0.42
30:BG:146:TYR:C	30:BG:148:MET:N	2.77	0.42
31:BH:88:LEU:HD21	31:BH:164:TYR:O	2.19	0.42
32:BI:99:GLU:O	32:BI:100:ALA:C	2.62	0.42
37:BQ:59:ARG:O	37:BQ:60:ARG:HB2	2.19	0.42
37:BQ:60:ARG:HB2	37:BQ:60:ARG:NH1	2.32	0.42
44:BX:12:VAL:O	44:BX:13:LEU:HB2	2.18	0.42
45:BY:44:ILE:O	45:BY:45:VAL:C	2.62	0.42
50:B3:38:GLU:HB3	50:B3:39:ASP:H	1.69	0.42
51:B4:7:PRO:O	51:B4:8:LYS:HB3	2.18	0.42
52:B5:19:ARG:HG3	57:BA:2046:G:H5'	2.02	0.42
54:B7:5:TRP:CH2	57:BA:686:G:N7	2.86	0.42
57:BA:21:A:H2'	57:BA:22:C:C6	2.54	0.42
57:BA:511:U:C5	57:BA:512:G:C5	3.07	0.42
57:BA:1638:C:H4'	57:BA:2710:C:O2	2.19	0.42
57:BA:1882:C:H3'	57:BA:1883:G:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2547:U:H2'	57:BA:2548:G:C8	2.54	0.42
1:Ab:119:GLU:C	1:Ab:121:LEU:H	2.27	0.42
2:Ac:113:ALA:HB2	2:Ac:202:ILE:HG12	2.01	0.42
3:Ad:120:LEU:HB3	3:Ad:126:ILE:CD1	2.46	0.42
4:Ae:72:GLN:C	4:Ae:73:ASN:CG	2.85	0.42
5:Af:16:GLN:H	5:Af:16:GLN:NE2	2.18	0.42
6:Ag:73:MET:HG2	6:Ag:90:GLU:HA	2.00	0.42
6:Ag:125:MET:O	6:Ag:126:ASP:C	2.61	0.42
7:Ah:63:LEU:H	7:Ah:63:LEU:CD2	2.21	0.42
8:Ai:32:ASP:O	8:Ai:35:GLU:HB3	2.20	0.42
9:Aj:5:ARG:CG	9:Aj:71:LEU:HD11	2.48	0.42
12:Am:37:THR:O	12:Am:55:ARG:CZ	2.67	0.42
15:Ap:39:TYR:CD1	15:Ap:49:LEU:HD13	2.54	0.42
16:Aq:18:THR:HG22	16:Aq:19:VAL:N	2.34	0.42
18:As:10:PHE:HB2	22:Aa:1318:A:H4'	2.00	0.42
19:At:103:GLY:HA2	22:Aa:192:U:H1'	2.00	0.42
22:Aa:90:U:O2'	22:Aa:91:C:H5	2.01	0.42
22:Aa:91:C:H2'	22:Aa:91:C:O2	2.19	0.42
22:Aa:425:G:O2'	22:Aa:426:G:H5'	2.20	0.42
22:Aa:853:G:O2'	22:Aa:854:G:H5'	2.18	0.42
22:Aa:1055:A:C6	22:Aa:1206:G:C5	3.07	0.42
22:Aa:1142:G:C8	22:Aa:1143:G:C8	3.08	0.42
25:Aw:70:G:H2'	25:Aw:71:C:H5'	2.01	0.42
27:AD:24:ILE:O	27:AD:82:ILE:O	2.37	0.42
27:AD:32:SER:HA	27:AD:35:LYS:HZ3	1.84	0.42
27:AD:43:ARG:HH11	27:AD:44:ASN:CG	2.27	0.42
27:AD:43:ARG:HH11	27:AD:44:ASN:HD21	1.68	0.42
27:AD:154:LYS:HE2	57:AA:1801:G:OP2	2.19	0.42
31:AH:142:GLY:C	57:AA:2745:C:H4'	2.44	0.42
32:AI:132:PRO:C	32:AI:133:HIS:ND1	2.77	0.42
34:AN:89:LYS:O	34:AN:93:THR:HG22	2.19	0.42
37:AQ:59:ARG:O	37:AQ:60:ARG:HB2	2.19	0.42
38:AR:29:LEU:HD12	38:AR:29:LEU:HA	1.81	0.42
40:AT:64:ARG:HH11	40:AT:64:ARG:HG2	1.84	0.42
42:AV:2:PHE:HB3	42:AV:3:ALA:H	1.71	0.42
45:AY:50:ARG:O	45:AY:50:ARG:HD2	2.19	0.42
45:AY:89:PHE:O	45:AY:90:LEU:HB3	2.20	0.42
46:AZ:40:ASP:HB3	46:AZ:43:GLU:OE1	2.20	0.42
46:AZ:166:SER:H	46:AZ:167:PRO:HA	1.84	0.42
48:A1:84:GLY:O	48:A1:86:SER:N	2.52	0.42
48:A1:94:LEU:CD2	48:A1:94:LEU:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:A2:68:ARG:O	49:A2:70:GLN:N	2.43	0.42
53:A6:27:LYS:O	53:A6:28:ARG:C	2.62	0.42
57:AA:68:G:H2'	57:AA:69:C:C6	2.53	0.42
57:AA:195:A:H5"	57:AA:196:A:OP2	2.20	0.42
57:AA:269:U:H2'	57:AA:269:U:O2	2.18	0.42
57:AA:271(Q):G:HO2'	57:AA:271(R):G:H8	1.65	0.42
57:AA:747:U:O2	57:AA:2014:A:H1'	2.19	0.42
57:AA:829:A:N7	57:AA:2247:A:O2'	2.48	0.42
57:AA:1045:A:H5"	57:AA:1047:G:N3	2.35	0.42
57:AA:1178:C:H2'	57:AA:1179:C:H6	1.84	0.42
57:AA:1528:A:N1	57:AA:1542:A:H2	2.17	0.42
57:AA:1721:G:H2'	57:AA:1741:A:H61	1.84	0.42
57:AA:1833:U:H2'	57:AA:1834:U:C6	2.47	0.42
57:AA:1862:G:O2'	57:AA:1863:G:H5'	2.19	0.42
57:AA:2287:A:C2	57:AA:2346:A:C2	3.07	0.42
57:AA:2318:G:H2'	57:AA:2319:G:OP1	2.18	0.42
57:AA:2377:A:H2'	57:AA:2378:A:C8	2.54	0.42
58:AB:90:A:C8	58:AB:91:C:O4'	2.72	0.42
1:Bb:118:LEU:HB2	1:Bb:142:LEU:HD12	2.01	0.42
2:Bc:195:VAL:HG22	22:Ba:1205:U:H4'	2.00	0.42
3:Bd:5:ILE:CA	3:Bd:115:ARG:HH12	2.31	0.42
6:Bg:114:ARG:CZ	22:Ba:1298:C:C5	3.02	0.42
7:Bh:77:GLU:HG2	7:Bh:78:GLN:N	2.34	0.42
7:Bh:83:ILE:CD1	7:Bh:137:VAL:HG22	2.49	0.42
9:Bj:22:LYS:C	9:Bj:24:VAL:N	2.77	0.42
9:Bj:34:VAL:HG13	9:Bj:73:ASP:C	2.44	0.42
11:Bl:42:THR:OG1	11:Bl:52:LEU:HB3	2.19	0.42
16:Bq:40:LYS:HD3	16:Bq:42:TYR:CZ	2.54	0.42
22:Ba:151:A:C2'	22:Ba:152:A:H5'	2.48	0.42
22:Ba:536:C:H2'	22:Ba:537:G:H8	1.84	0.42
22:Ba:552:U:O2'	22:Ba:553:A:H5'	2.18	0.42
22:Ba:1423:G:O2'	22:Ba:1424:C:H5'	2.19	0.42
26:BC:166:ASN:N	26:BC:172:ILE:HG13	2.34	0.42
28:BE:69:LYS:HZ2	28:BE:89:ASP:CA	2.31	0.42
28:BE:69:LYS:HD3	28:BE:89:ASP:CG	2.45	0.42
30:BG:65:GLY:O	51:B4:7:PRO:HD2	2.19	0.42
30:BG:142:PRO:C	30:BG:144:ILE:N	2.78	0.42
33:BJ:67:GLY:CA	33:BJ:72:ASP:HA	2.48	0.42
33:BJ:96:PHE:CB	33:BJ:131:MET:O	2.68	0.42
34:BN:112:LEU:C	34:BN:112:LEU:HD12	2.44	0.42
34:BN:126:PRO:O	34:BN:127:ASP:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:72:PRO:C	35:BO:74:GLY:N	2.78	0.42
36:BP:57:THR:HB	36:BP:59:LEU:N	2.34	0.42
37:BQ:134:ARG:NH2	46:BZ:122:ARG:HD2	2.35	0.42
38:BR:7:GLY:O	38:BR:8:ARG:CB	2.67	0.42
39:BS:66:ALA:O	39:BS:69:VAL:HG12	2.18	0.42
42:BV:19:LYS:HZ3	42:BV:20:LEU:CB	2.32	0.42
43:BW:65:LEU:HD23	43:BW:68:ARG:CD	2.48	0.42
45:BY:7:VAL:CB	45:BY:8:LYS:HD2	2.41	0.42
45:BY:67:LEU:HD11	45:BY:71:LYS:CB	2.49	0.42
45:BY:97:ARG:C	45:BY:99:CYS:H	2.26	0.42
46:BZ:127:LYS:NZ	46:BZ:127:LYS:HB3	2.34	0.42
48:B1:51:VAL:O	48:B1:57:GLU:O	2.36	0.42
49:B2:2:LYS:HA	49:B2:2:LYS:HE3	2.01	0.42
53:B6:27:LYS:O	53:B6:28:ARG:C	2.62	0.42
57:BA:380:U:H2'	57:BA:381:G:C8	2.54	0.42
57:BA:709:U:H2'	57:BA:710:G:H8	1.84	0.42
57:BA:768:G:C4	57:BA:769:G:C8	3.08	0.42
57:BA:2163:C:H2'	57:BA:2164:C:O4'	2.19	0.42
57:BA:2464:C:O2'	57:BA:2465:C:O5'	2.35	0.42
57:BA:2864:G:O2'	57:BA:2865:U:H5'	2.19	0.42
1:Ab:235:SER:O	1:Ab:237:ALA:N	2.52	0.42
2:Ac:11:ARG:O	2:Ac:13:GLY:N	2.52	0.42
3:Ad:163:GLU:CG	3:Ad:164:ALA:N	2.82	0.42
3:Ad:182:LYS:HB3	3:Ad:183:GLY:H	1.63	0.42
4:Ae:12:LEU:C	4:Ae:12:LEU:CD2	2.86	0.42
6:Ag:39:ALA:O	6:Ag:41:ARG:N	2.53	0.42
6:Ag:93:PRO:O	6:Ag:96:GLN:HB2	2.19	0.42
9:Aj:45:ARG:HG3	22:Aa:1254:C:OP1	2.20	0.42
9:Aj:49:VAL:HG22	9:Aj:50:ILE:N	2.34	0.42
10:Ak:33:THR:HB	10:Ak:37:GLY:C	2.44	0.42
11:Al:115:LYS:HB3	11:Al:116:SER:H	1.66	0.42
15:Ap:55:ARG:O	15:Ap:56:ALA:C	2.61	0.42
18:As:51:VAL:HB	18:As:58:VAL:CG2	2.49	0.42
18:As:78:ARG:HG3	18:As:78:ARG:HH11	1.85	0.42
19:At:13:LEU:N	19:At:13:LEU:CD1	2.83	0.42
19:At:83:ARG:O	19:At:84:LEU:C	2.63	0.42
22:Aa:547:A:H4'	22:Aa:548:G:O5'	2.19	0.42
22:Aa:825:G:C6	22:Aa:826:C:C4	3.06	0.42
22:Aa:967:C:H2'	22:Aa:968:A:C8	2.55	0.42
22:Aa:1321:C:H5"	22:Aa:1322:C:H5"	1.94	0.42
25:Aw:31:G:O2'	25:Aw:32:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AC:52:PRO:C	26:AC:54:ARG:H	2.26	0.42
27:AD:142:VAL:HG22	27:AD:143:HIS:N	2.35	0.42
28:AE:75:VAL:C	28:AE:77:ILE:N	2.76	0.42
29:AF:34:TRP:CH2	36:AP:12:ALA:HB2	2.55	0.42
30:AG:122:PRO:O	30:AG:123:ASN:C	2.61	0.42
30:AG:126:ASP:C	30:AG:128:ARG:N	2.77	0.42
31:AH:38:SER:C	31:AH:40:GLU:H	2.28	0.42
34:AN:27:ALA:HB1	34:AN:103:VAL:HG22	2.01	0.42
37:AQ:21:THR:CG2	37:AQ:101:ARG:HB2	2.50	0.42
37:AQ:42:ILE:CG2	37:AQ:47:ILE:HG13	2.49	0.42
37:AQ:137:TYR:O	37:AQ:138:ASP:OD1	2.38	0.42
38:AR:85:PRO:O	38:AR:88:ARG:HB2	2.18	0.42
39:AS:51:ALA:HB2	39:AS:73:LEU:HA	2.00	0.42
39:AS:91:PRO:O	39:AS:92:TYR:C	2.62	0.42
40:AT:56:GLY:O	40:AT:59:THR:HG23	2.19	0.42
40:AT:101:PHE:CD2	40:AT:101:PHE:C	2.97	0.42
41:AU:59:ARG:HG3	41:AU:59:ARG:HH11	1.84	0.42
42:AV:79:VAL:O	42:AV:80:GLN:HB2	2.18	0.42
42:AV:82:ARG:HG2	42:AV:82:ARG:NH1	2.35	0.42
44:AX:12:VAL:CG1	44:AX:27:THR:OG1	2.67	0.42
44:AX:18:TYR:O	44:AX:19:ALA:C	2.63	0.42
45:AY:31:LEU:HD23	45:AY:36:ALA:C	2.44	0.42
45:AY:52:SER:N	45:AY:53:PRO:HD2	2.33	0.42
45:AY:67:LEU:HD11	45:AY:71:LYS:CB	2.49	0.42
46:AZ:40:ASP:HB3	46:AZ:43:GLU:CD	2.44	0.42
46:AZ:175:VAL:HG23	46:AZ:176:PRO:O	2.19	0.42
51:A4:20:ASN:C	51:A4:20:ASN:HD22	2.28	0.42
52:A5:33:CYS:C	52:A5:35:GLU:N	2.77	0.42
53:A6:27:LYS:O	53:A6:27:LYS:CD	2.67	0.42
57:AA:53:A:H2'	57:AA:54:G:O4'	2.19	0.42
57:AA:692:C:H2'	57:AA:693:C:C6	2.55	0.42
57:AA:860:U:O2	57:AA:860:U:O4'	2.35	0.42
57:AA:1053:C:O2	57:AA:1106:A:C2	2.72	0.42
57:AA:1274:A:N3	57:AA:1297:C:H1'	2.34	0.42
57:AA:1550:C:O2'	57:AA:1551:C:H5'	2.20	0.42
57:AA:2087:G:O2'	57:AA:2088:G:H5'	2.18	0.42
57:AA:2553:G:H2'	57:AA:2554:U:O4'	2.19	0.42
57:AA:2735:G:N2	57:AA:2770:G:H1'	2.33	0.42
1:Bb:103:THR:OG1	1:Bb:104:ASN:N	2.52	0.42
1:Bb:170:GLU:C	1:Bb:172:ILE:H	2.28	0.42
2:Bc:53:ALA:HB2	2:Bc:115:LEU:CD2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:76:VAL:HG23	2:Bc:77:ILE:H	1.82	0.42
3:Bd:61:LYS:HE3	3:Bd:62:GLN:HE21	1.85	0.42
3:Bd:68:TYR:CD1	3:Bd:68:TYR:N	2.87	0.42
3:Bd:108:LEU:HG	3:Bd:110:PHE:HE1	1.85	0.42
4:Be:72:GLN:C	4:Be:73:ASN:CG	2.85	0.42
6:Bg:59:LEU:O	6:Bg:63:LYS:HB2	2.19	0.42
7:Bh:68:ARG:HH11	7:Bh:68:ARG:HG2	1.85	0.42
8:Bi:93:ARG:C	8:Bi:95:LYS:H	2.26	0.42
9:Bj:24:VAL:HG22	9:Bj:72:VAL:HG11	2.00	0.42
10:Bk:126:ARG:O	10:Bk:127:LYS:C	2.60	0.42
15:Bp:34:GLU:OE1	15:Bp:55:ARG:NH1	2.53	0.42
17:Br:87:ARG:HB3	17:Br:87:ARG:HH11	1.84	0.42
22:Ba:319:G:N2	22:Ba:320:C:H1'	2.34	0.42
22:Ba:1320:C:H2'	22:Ba:1321:C:O4'	2.19	0.42
22:Ba:1486:G:H2'	22:Ba:1487:G:C1'	2.49	0.42
24:Bv:22:G:H2'	24:Bv:23:C:C6	2.54	0.42
27:BD:76:PRO:HA	27:BD:118:VAL:HB	2.01	0.42
28:BE:67:PHE:O	28:BE:68:ALA:C	2.61	0.42
28:BE:147:PRO:HB2	28:BE:149:ARG:HG2	2.01	0.42
30:BG:81:LYS:O	30:BG:83:ARG:HG3	2.20	0.42
31:BH:142:GLY:C	57:BA:2745:C:H4'	2.44	0.42
32:BI:118:LYS:HE3	32:BI:118:LYS:HB3	1.89	0.42
34:BN:89:LYS:O	34:BN:93:THR:HG22	2.19	0.42
36:BP:23:PRO:CD	36:BP:33:ARG:NH2	2.82	0.42
37:BQ:2:LEU:CD2	37:BQ:47:ILE:HG21	2.48	0.42
37:BQ:13:GLN:HG3	57:BA:910:A:N7	2.34	0.42
37:BQ:67:ARG:HG2	37:BQ:67:ARG:NH1	2.33	0.42
37:BQ:110:THR:HG23	37:BQ:113:GLN:OE1	2.19	0.42
38:BR:52:ILE:HD13	38:BR:79:LEU:HD21	2.02	0.42
39:BS:24:LEU:CB	39:BS:85:VAL:HB	2.49	0.42
40:BT:28:VAL:C	40:BT:29:ARG:HD3	2.43	0.42
44:BX:29:TRP:HZ3	44:BX:59:VAL:HG21	1.84	0.42
46:BZ:57:ILE:C	46:BZ:69:THR:OG1	2.62	0.42
46:BZ:81:ARG:HB3	46:BZ:81:ARG:CZ	2.45	0.42
46:BZ:136:PHE:O	46:BZ:136:PHE:CD1	2.73	0.42
47:B0:40:GLN:HE21	47:B0:57:PHE:HB3	1.83	0.42
49:B2:18:PRO:O	49:B2:21:LEU:N	2.52	0.42
53:B6:42:TRP:CH2	57:BA:643:A:N7	2.88	0.42
55:B8:37:SER:OG	55:B8:39:LYS:HB3	2.20	0.42
55:B8:49:VAL:HG12	57:BA:2360:A:OP1	2.19	0.42
57:BA:70:G:H21	57:BA:71:A:H62	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:373:U:H2'	57:BA:374:A:H8	1.83	0.42
57:BA:444:C:O2'	57:BA:445:C:H5'	2.20	0.42
57:BA:657:U:H2'	57:BA:658:C:C5	2.53	0.42
57:BA:729:G:H2'	57:BA:1775:U:O2	2.20	0.42
57:BA:1053:C:O2	57:BA:1106:A:C2	2.73	0.42
57:BA:1344:G:H4'	57:BA:1384:A:C5	2.55	0.42
57:BA:1682:G:H2'	57:BA:1683:C:C6	2.55	0.42
57:BA:1721:G:H2'	57:BA:1741:A:H61	1.83	0.42
57:BA:1817:G:C2'	57:BA:1818:U:H5'	2.49	0.42
57:BA:1821:A:H2'	57:BA:1822:G:H8	1.85	0.42
57:BA:2740:A:C6	57:BA:2764:A:C8	3.07	0.42
57:BA:2791:C:N4	57:BA:2801:A:H8	2.17	0.42
58:BB:96:U:H2'	58:BB:97:G:C8	2.55	0.42
1:Ab:20:GLU:HB2	1:Ab:190:THR:OG1	2.19	0.42
2:Ac:151:VAL:C	2:Ac:152:ILE:HG13	2.44	0.42
2:Ac:175:LEU:HD21	2:Ac:201:TYR:CE2	2.55	0.42
3:Ad:191:ARG:HA	3:Ad:191:ARG:HD2	1.86	0.42
4:Ae:146:ALA:C	4:Ae:148:VAL:N	2.77	0.42
6:Ag:62:PHE:CE1	6:Ag:124:LEU:HD11	2.55	0.42
6:Ag:148:ASN:HD21	25:Aw:40:C:H4'	1.83	0.42
9:Aj:38:ILE:HD11	9:Aj:71:LEU:HB3	2.01	0.42
9:Aj:38:ILE:HG22	22:Aa:1123:A:O2'	2.19	0.42
11:Al:104:VAL:HG12	11:Al:105:TYR:CD2	2.54	0.42
12:Am:2:ALA:O	12:Am:4:ILE:HG13	2.19	0.42
12:Am:29:ARG:HD3	12:Am:64:TRP:CE3	2.54	0.42
14:Ao:76:GLU:C	14:Ao:76:GLU:CD	2.87	0.42
15:Ap:8:ARG:HH11	15:Ap:8:ARG:HG2	1.83	0.42
21:Ay:49:ASP:OD1	21:Ay:49:ASP:N	2.52	0.42
21:Ay:56:ARG:HG3	21:Ay:57:SER:N	2.34	0.42
22:Aa:26:A:H2'	22:Aa:27:G:H5'	2.01	0.42
22:Aa:231:G:O2'	22:Aa:232:G:H5'	2.19	0.42
22:Aa:458:C:H2'	22:Aa:460:G:C8	2.55	0.42
22:Aa:707:C:H2'	22:Aa:708:C:C6	2.53	0.42
22:Aa:778:G:O2'	22:Aa:779:C:H5'	2.19	0.42
22:Aa:826:C:H2'	22:Aa:827:U:H6	1.85	0.42
22:Aa:882:C:O2'	22:Aa:883:C:H5'	2.20	0.42
22:Aa:928:G:H2'	22:Aa:929:G:H8	1.84	0.42
22:Aa:1375:A:C2	22:Aa:1376:U:C2	3.08	0.42
22:Aa:1502:A:C2	22:Aa:1505:G:N2	2.83	0.42
27:AD:205:VAL:O	27:AD:206:LEU:C	2.63	0.42
27:AD:206:LEU:HA	27:AD:211:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AD:231:HIS:ND1	27:AD:232:PRO:CD	2.82	0.42
28:AE:116:VAL:HG22	28:AE:122:PHE:CG	2.54	0.42
29:AF:9:ILE:O	29:AF:128:ALA:HB2	2.20	0.42
29:AF:176:LEU:HG	29:AF:177:ALA:O	2.20	0.42
30:AG:16:ARG:HG3	30:AG:16:ARG:NH1	2.33	0.42
36:AP:18:ARG:HG2	57:AA:661:C:H4'	2.02	0.42
40:AT:19:LEU:HD22	40:AT:85:LYS:CG	2.49	0.42
41:AU:79:PHE:CD2	41:AU:83:LEU:HD21	2.55	0.42
41:AU:83:LEU:HB3	41:AU:88:ILE:HB	2.01	0.42
44:AX:56:THR:HG22	44:AX:79:ALA:HB2	2.00	0.42
48:A1:67:ILE:HB	48:A1:68:PRO:HD3	2.00	0.42
53:A6:8:LYS:O	53:A6:9:LEU:C	2.62	0.42
55:A8:4:MET:HG2	55:A8:4:MET:H	1.63	0.42
55:A8:33:ASN:ND2	55:A8:33:ASN:N	2.34	0.42
55:A8:44:LYS:HD2	55:A8:44:LYS:N	2.29	0.42
57:AA:484:C:H2'	57:AA:485:C:H6	1.84	0.42
57:AA:673:C:H6	57:AA:673:C:C5'	2.21	0.42
57:AA:1528:A:N6	57:AA:1544:A:C2	2.88	0.42
57:AA:1680:U:H2'	57:AA:1681:G:O4'	2.19	0.42
57:AA:1762:A:H8	57:AA:1762:A:O5'	2.02	0.42
57:AA:1862:G:H2'	57:AA:1863:G:H8	1.83	0.42
57:AA:2192:G:H2'	57:AA:2193:G:C5'	2.49	0.42
1:Bb:84:GLU:O	1:Bb:219:VAL:HG21	2.20	0.42
1:Bb:95:GLN:NE2	1:Bb:147:LYS:CE	2.82	0.42
4:Be:75:THR:HG23	4:Be:76:ILE:H	1.84	0.42
6:Bg:113:GLU:HB3	6:Bg:118:VAL:CG2	2.49	0.42
7:Bh:86:ILE:CB	7:Bh:133:LEU:HD22	2.49	0.42
7:Bh:133:LEU:HD23	7:Bh:133:LEU:C	2.44	0.42
10:Bk:40:ILE:HG22	10:Bk:75:TYR:CD2	2.54	0.42
12:Bm:96:LEU:HB3	12:Bm:97:PRO:CD	2.37	0.42
13:Bn:9:LYS:HG3	13:Bn:12:ARG:NH2	2.35	0.42
13:Bn:18:VAL:CG1	22:Ba:1316:G:H4'	2.49	0.42
15:Bp:4:ILE:HD11	15:Bp:64:ALA:HB1	2.00	0.42
18:Bs:41:VAL:O	18:Bs:42:PRO:C	2.62	0.42
21:By:52:LYS:HZ1	21:By:54:LYS:CE	2.30	0.42
21:By:54:LYS:NZ	23:Bx:21:CCC:PC	2.92	0.42
22:Ba:153:C:H2'	22:Ba:154:C:C6	2.53	0.42
22:Ba:262:A:H2'	22:Ba:263:A:C8	2.54	0.42
22:Ba:304:U:H2'	22:Ba:305:G:C8	2.54	0.42
22:Ba:309:G:O2'	22:Ba:310:G:H5'	2.19	0.42
22:Ba:1005:A:H2'	22:Ba:1006:C:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1162:C:H2'	22:Ba:1163:C:C6	2.55	0.42
22:Ba:1269:A:C2	22:Ba:1313:U:H1'	2.55	0.42
22:Ba:1326:C:H2'	22:Ba:1327:C:H6	1.80	0.42
22:Ba:1476:G:H2'	22:Ba:1477:C:C6	2.54	0.42
23:Bx:13:A:H2'	23:Bx:14:A:C5'	2.49	0.42
24:Bv:2:G:H2'	24:Bv:3:C:C6	2.53	0.42
25:Bw:26:G:O2'	25:Bw:27:U:H5'	2.18	0.42
25:Bw:36:U:H2'	25:Bw:37:A:O4'	2.20	0.42
27:BD:35:LYS:O	27:BD:37:LEU:HB2	2.20	0.42
27:BD:211:ARG:HH11	27:BD:211:ARG:HG3	1.85	0.42
29:BF:119:ARG:HH11	29:BF:119:ARG:CG	2.32	0.42
30:BG:16:ARG:HE	30:BG:31:VAL:CG1	2.33	0.42
30:BG:98:ARG:CG	51:B4:1:MET:HE2	2.50	0.42
30:BG:130:ASN:HD22	30:BG:160:VAL:CG2	2.32	0.42
30:BG:141:PHE:HA	30:BG:142:PRO:HD2	1.80	0.42
32:BI:122:GLU:OE2	32:BI:126:TYR:OH	2.35	0.42
36:BP:7:ARG:C	36:BP:9:ASN:N	2.77	0.42
36:BP:50:ARG:CG	36:BP:51:PHE:N	2.82	0.42
40:BT:24:PRO:HA	40:BT:49:VAL:HG13	2.02	0.42
40:BT:56:GLY:O	40:BT:59:THR:CG2	2.67	0.42
40:BT:90:GLN:NE2	40:BT:124:ASP:OD2	2.53	0.42
43:BW:75:TYR:CE2	43:BW:104:THR:CB	3.02	0.42
45:BY:40:GLU:HA	45:BY:64:GLU:OE2	2.20	0.42
46:BZ:114:GLY:O	46:BZ:177:PRO:CG	2.67	0.42
46:BZ:151:HIS:CD2	46:BZ:170:THR:HG23	2.55	0.42
48:B1:39:LYS:NZ	57:BA:189:G:OP2	2.53	0.42
48:B1:73:LEU:CD1	48:B1:94:LEU:HB3	2.49	0.42
50:B3:46:ASN:HD22	50:B3:46:ASN:HA	1.56	0.42
55:B8:52:LYS:CE	57:BA:834:C:H4'	2.50	0.42
57:BA:544:G:N2	57:BA:547:A:H2'	2.26	0.42
57:BA:873:G:N2	57:BA:905:U:C2	2.88	0.42
57:BA:887:A:N3	57:BA:889:C:OP2	2.53	0.42
57:BA:1107:G:H2'	57:BA:1108:U:O5'	2.20	0.42
57:BA:1187:G:H8	57:BA:1187:G:O5'	2.01	0.42
57:BA:1188:U:H2'	57:BA:1189:A:H5'	2.00	0.42
57:BA:1532:C:H2'	57:BA:1533:G:H5'	2.01	0.42
57:BA:1774:C:H4'	57:BA:1979:C:O2	2.20	0.42
57:BA:1835:G:N3	57:BA:1835:G:H2'	2.35	0.42
57:BA:1846:G:H8	57:BA:1846:G:C5'	2.29	0.42
57:BA:2082:A:H2'	57:BA:2083:G:O4'	2.19	0.42
57:BA:2095:C:H2'	57:BA:2096:U:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2540:C:H2'	57:BA:2541:A:O4'	2.18	0.42
57:BA:2652:C:H5'	57:BA:2653:U:OP2	2.19	0.42
1:Ab:95:GLN:HB3	1:Ab:96:ARG:H	1.68	0.42
1:Ab:97:TRP:CZ2	1:Ab:101:MET:HG3	2.55	0.42
2:Ac:22:TRP:HZ3	2:Ac:24:ALA:HB2	1.84	0.42
2:Ac:39:ILE:C	2:Ac:41:GLY:N	2.77	0.42
4:Ae:28:PHE:N	4:Ae:28:PHE:HD1	2.18	0.42
4:Ae:128:PRO:O	4:Ae:129:ILE:C	2.63	0.42
5:Af:69:GLU:CD	5:Af:69:GLU:H	2.27	0.42
6:Ag:23:VAL:CG1	6:Ag:43:PHE:HE2	2.32	0.42
6:Ag:111:ARG:HB3	6:Ag:112:PRO:HD2	2.02	0.42
8:Ai:26:VAL:HG22	8:Ai:61:ALA:HB3	2.02	0.42
12:Am:9:ILE:HD12	12:Am:9:ILE:H	1.83	0.42
12:Am:20:THR:C	12:Am:22:ILE:N	2.73	0.42
12:Am:78:ILE:C	12:Am:80:ARG:N	2.75	0.42
16:Aq:17:LYS:HZ1	22:Aa:256:U:H5"	1.85	0.42
16:Aq:50:LYS:HG3	16:Aq:51:TYR:CE1	2.54	0.42
18:As:58:VAL:O	18:As:58:VAL:CG2	2.67	0.42
22:Aa:82:U:H2'	22:Aa:83:U:C5	2.55	0.42
22:Aa:622:A:C8	22:Aa:623:C:C5	3.08	0.42
22:Aa:983:A:N1	22:Aa:1222:G:N2	2.67	0.42
22:Aa:1040:U:H2'	22:Aa:1041:A:C8	2.55	0.42
22:Aa:1125:U:C5'	22:Aa:1126:U:H5	2.30	0.42
22:Aa:1202:G:O2'	22:Aa:1203:C:H5'	2.20	0.42
22:Aa:1207:G:O2'	22:Aa:1208:C:H5'	2.19	0.42
22:Aa:1323:G:H4'	22:Aa:1363:C:C2	2.55	0.42
22:Aa:1463:C:O2'	22:Aa:1464:G:H5'	2.19	0.42
23:Ax:13:A:H2'	23:Ax:14:A:C5'	2.49	0.42
25:Aw:68:C:H2'	25:Aw:69:C:C6	2.55	0.42
26:AC:45:HIS:ND1	26:AC:173:HIS:CB	2.83	0.42
26:AC:50:ILE:HD12	26:AC:50:ILE:O	2.20	0.42
26:AC:177:GLY:O	26:AC:178:LYS:HD2	2.20	0.42
27:AD:151:LYS:HG3	57:AA:2203:U:O2'	2.20	0.42
27:AD:263:ARG:HH11	27:AD:263:ARG:CB	2.33	0.42
28:AE:147:PRO:HB2	28:AE:149:ARG:HG2	2.01	0.42
30:AG:96:ARG:CA	30:AG:99:MET:HE2	2.50	0.42
32:AI:2:LYS:HD3	32:AI:20:ASP:CB	2.32	0.42
32:AI:44:LEU:HD12	32:AI:44:LEU:HA	1.85	0.42
32:AI:74:ASN:O	32:AI:76:THR:N	2.52	0.42
32:AI:123:LEU:HD23	32:AI:142:VAL:HG12	2.02	0.42
33:AJ:97:ALA:HA	33:AJ:132:ASP:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AN:35:ARG:C	34:AN:37:LYS:N	2.72	0.42
34:AN:68:GLU:N	34:AN:88:GLU:HG3	2.32	0.42
36:AP:42:SER:HB2	36:AP:43:GLY:H	1.70	0.42
36:AP:55:ARG:NH1	57:AA:833:U:O2	2.53	0.42
36:AP:75:ILE:N	36:AP:75:ILE:CD1	2.82	0.42
37:AQ:54:MET:O	37:AQ:57:HIS:HB3	2.20	0.42
37:AQ:134:ARG:CZ	46:AZ:122:ARG:HH21	2.32	0.42
38:AR:63:ARG:HA	38:AR:80:PHE:CE2	2.55	0.42
39:AS:96:GLY:O	39:AS:98:VAL:N	2.52	0.42
40:AT:34:VAL:HG22	40:AT:39:ARG:HA	2.01	0.42
40:AT:57:PHE:C	40:AT:58:ASN:HD22	2.27	0.42
44:AX:52:VAL:HG23	44:AX:84:ALA:HA	2.01	0.42
47:A0:36:ILE:HD12	47:A0:38:VAL:H	1.83	0.42
52:A5:19:ARG:HA	57:AA:2046:G:O5'	2.20	0.42
55:A8:19:SER:HB2	55:A8:21:LYS:HE3	2.01	0.42
57:AA:70:G:H21	57:AA:71:A:N6	2.17	0.42
57:AA:196:A:N3	57:AA:196:A:H2'	2.35	0.42
57:AA:491:G:H2'	57:AA:492:A:C8	2.54	0.42
57:AA:1480:G:C6	57:AA:1481:U:C4	3.07	0.42
57:AA:2224:G:H4'	57:AA:2226:C:C2	2.53	0.42
57:AA:2536:G:C6	57:AA:2537:U:C4	3.07	0.42
57:AA:2619:C:O2'	57:AA:2620:C:H5'	2.20	0.42
1:Bb:178:ARG:NH2	7:Bh:74:PRO:HB3	2.34	0.42
3:Bd:9:CYS:HB3	3:Bd:32:ALA:HB2	2.02	0.42
3:Bd:65:ARG:HD2	3:Bd:72:GLU:HA	2.00	0.42
6:Bg:101:LEU:O	6:Bg:105:VAL:HG23	2.20	0.42
6:Bg:125:MET:HE2	6:Bg:125:MET:HB3	1.90	0.42
6:Bg:147:ALA:C	6:Bg:149:ARG:H	2.27	0.42
8:Bi:95:LYS:HD3	8:Bi:95:LYS:C	2.44	0.42
9:Bj:13:HIS:CE1	9:Bj:14:LYS:HG3	2.54	0.42
9:Bj:24:VAL:HG21	9:Bj:37:PRO:CG	2.47	0.42
9:Bj:35:SER:O	9:Bj:36:GLY:C	2.62	0.42
10:Bk:34:ASP:HB2	10:Bk:35:PRO:HD2	2.01	0.42
12:Bm:25:ILE:N	22:Ba:1329:A:O3'	2.53	0.42
12:Bm:108:ARG:CZ	12:Bm:114:ARG:HD3	2.49	0.42
19:Bt:93:GLU:C	19:Bt:93:GLU:OE1	2.62	0.42
22:Ba:1005:A:H8	22:Ba:1006:C:O4'	2.03	0.42
22:Ba:1040:U:H2'	22:Ba:1041:A:C8	2.54	0.42
22:Ba:1090:U:H2'	22:Ba:1091:U:C6	2.55	0.42
22:Ba:1120:G:H1	22:Ba:1153:C:H42	1.68	0.42
22:Ba:1334:G:H5'	22:Ba:1335:C:OP2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1390:U:O2'	22:Ba:1391:U:H5'	2.20	0.42
22:Ba:1506:U:O2'	22:Ba:1507:A:H5'	2.18	0.42
22:Ba:1529:G:H4'	22:Ba:1530:G:OP2	2.20	0.42
26:BC:23:ILE:HG23	26:BC:190:ILE:HG21	2.02	0.42
26:BC:38:PHE:CE2	57:BA:2126:A:H5'	2.55	0.42
26:BC:181:PHE:CD1	26:BC:181:PHE:N	2.84	0.42
27:BD:158:ALA:HB3	27:BD:161:THR:HG21	2.00	0.42
28:BE:73:GLU:HA	28:BE:74:PRO:HD3	1.70	0.42
28:BE:176:ILE:HG22	28:BE:179:GLU:H	1.84	0.42
28:BE:199:ARG:HB2	28:BE:199:ARG:HH11	1.85	0.42
29:BF:32:LEU:CD1	29:BF:105:VAL:HG13	2.49	0.42
30:BG:20:ILE:CG2	30:BG:25:TYR:HB2	2.49	0.42
30:BG:29:TRP:HB3	58:BB:57:A:N3	2.34	0.42
30:BG:58:GLN:HE21	30:BG:59:GLU:HG3	1.85	0.42
30:BG:97:ASP:N	30:BG:100:TRP:CD1	2.87	0.42
31:BH:41:MET:CE	31:BH:43:VAL:HG13	2.48	0.42
32:BI:120:ILE:HD11	32:BI:126:TYR:CD1	2.47	0.42
34:BN:5:VAL:HG23	34:BN:6:PRO:HD2	2.01	0.42
34:BN:29:LYS:O	34:BN:30:ILE:C	2.62	0.42
34:BN:58:ASP:C	34:BN:60:ILE:HG13	2.45	0.42
35:BO:7:TYR:CE1	35:BO:44:LYS:HG3	2.54	0.42
35:BO:26:LYS:HB2	35:BO:30:ALA:HB2	2.01	0.42
36:BP:61:ARG:HD2	36:BP:61:ARG:N	2.35	0.42
40:BT:34:VAL:HG12	40:BT:35:LYS:H	1.84	0.42
41:BU:95:LEU:HD12	42:BV:11:GLN:HB2	2.00	0.42
42:BV:19:LYS:NZ	42:BV:20:LEU:N	2.57	0.42
45:BY:52:SER:HB2	45:BY:53:PRO:HD3	2.00	0.42
45:BY:96:ILE:CD1	45:BY:99:CYS:SG	3.08	0.42
51:B4:39:CYS:O	51:B4:40:HIS:CG	2.72	0.42
52:B5:26:THR:O	52:B5:26:THR:HG23	2.18	0.42
57:BA:83:G:N2	57:BA:102:G:H2'	2.34	0.42
57:BA:292:C:O2'	57:BA:293:U:H5'	2.19	0.42
57:BA:792:G:C5'	57:BA:793:A:H5'	2.49	0.42
57:BA:979:G:H3'	57:BA:980:A:C5'	2.49	0.42
57:BA:1210:A:H5"	57:BA:1212:G:H5'	2.01	0.42
57:BA:1357:U:O2'	57:BA:1358:G:H5'	2.18	0.42
57:BA:1722:A:C2	57:BA:1740:G:H2'	2.49	0.42
57:BA:1750:G:H2'	57:BA:1751:C:H6	1.84	0.42
57:BA:1763:G:H2'	57:BA:1764:G:C5'	2.49	0.42
57:BA:2048:G:C6	57:BA:2049:G:C5	3.07	0.42
57:BA:2360:A:O2'	57:BA:2361:A:O5'	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2732:G:C3'	57:BA:2733:A:C5'	2.97	0.42
57:BA:2737:G:H2'	57:BA:2738:A:H8	1.84	0.42
1:Ab:102:LEU:H	1:Ab:102:LEU:CD1	2.29	0.42
1:Ab:137:ARG:HD3	1:Ab:138:LEU:H	1.81	0.42
1:Ab:224:GLN:CB	1:Ab:229:VAL:HG22	2.50	0.42
2:Ac:79:ARG:HG3	2:Ac:79:ARG:NH1	2.35	0.42
3:Ad:58:LEU:HD23	3:Ad:62:GLN:HG2	2.02	0.42
4:Ae:5:ASP:HA	4:Ae:63:ARG:CZ	2.50	0.42
4:Ae:136:MET:C	4:Ae:138:ALA:N	2.78	0.42
4:Ae:145:LYS:HE2	4:Ae:149:GLU:OE1	2.20	0.42
7:Ah:36:LEU:C	7:Ah:38:ILE:H	2.26	0.42
8:Ai:46:ALA:HB1	8:Ai:77:ILE:HG22	2.00	0.42
9:Aj:7:LYS:HB2	9:Aj:97:GLU:HB2	2.00	0.42
11:Al:27:LEU:N	11:Al:27:LEU:HD22	2.34	0.42
12:Am:25:ILE:N	22:Aa:1329:A:O3'	2.53	0.42
16:Aq:16:GLN:NE2	22:Aa:255:G:H1'	2.34	0.42
17:Ar:87:ARG:HB3	17:Ar:87:ARG:HH11	1.84	0.42
21:Ay:44:LEU:CB	23:Ax:20:A:C2	3.02	0.42
22:Aa:344:A:H5"	22:Aa:345:C:H5	1.85	0.42
22:Aa:355:C:C2	22:Aa:356:A:C8	3.07	0.42
22:Aa:590:C:O2'	22:Aa:591:U:H5'	2.20	0.42
22:Aa:799:G:C2'	22:Aa:800:G:H5'	2.48	0.42
22:Aa:889:A:N1	22:Aa:907:A:H5"	2.35	0.42
22:Aa:1005:A:N1	22:Aa:1025:U:H1'	2.35	0.42
22:Aa:1037:C:H2'	22:Aa:1038:C:C5	2.55	0.42
22:Aa:1217:C:H2'	22:Aa:1218:C:O4'	2.19	0.42
22:Aa:1296:C:H3'	22:Aa:1297:C:C6	2.55	0.42
22:Aa:1505:G:H4'	22:Aa:1506:U:H5'	2.00	0.42
25:Aw:9:G:C4'	25:Aw:46:G:H5'	2.50	0.42
25:Aw:51:C:O2	25:Aw:63:G:N2	2.51	0.42
27:AD:240:ALA:HB1	27:AD:241:PRO:CD	2.50	0.42
28:AE:65:GLY:C	28:AE:67:PHE:N	2.74	0.42
29:AF:3:GLU:HB2	29:AF:24:LEU:HG	2.01	0.42
29:AF:169:ASN:HB2	57:AA:322:A:OP2	2.19	0.42
31:AH:7:LEU:HA	31:AH:8:PRO:HD3	1.72	0.42
31:AH:116:GLU:CD	31:AH:116:GLU:O	2.63	0.42
31:AH:167:GLU:HB3	31:AH:168:PRO:HD2	2.02	0.42
32:AI:3:VAL:HG21	32:AI:21:VAL:HG22	2.02	0.42
32:AI:120:ILE:O	32:AI:121:LYS:C	2.63	0.42
34:AN:21:LYS:HD3	34:AN:26:LEU:HB2	2.01	0.42
34:AN:21:LYS:C	34:AN:61:ARG:HB2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AO:66:LYS:HD3	57:AA:1666:G:OP1	2.20	0.42
38:AR:100:LEU:H	38:AR:100:LEU:CD2	2.12	0.42
39:AS:70:GLY:C	39:AS:72:ALA:N	2.76	0.42
40:AT:45:PHE:CE1	40:AT:74:ARG:HG3	2.55	0.42
43:AW:76:VAL:CG2	43:AW:101:SER:HB3	2.50	0.42
45:AY:2:ARG:HD3	45:AY:3:VAL:CG2	2.40	0.42
46:AZ:85:HIS:HD1	58:AB:75:G:H21	1.67	0.42
48:A1:30:VAL:CG2	48:A1:31:GLY:N	2.79	0.42
50:A3:36:VAL:O	50:A3:36:VAL:HG23	2.18	0.42
51:A4:3:GLU:CG	58:AB:43:C:OP1	2.61	0.42
57:AA:31:C:O2'	57:AA:32:C:H5'	2.19	0.42
57:AA:481:G:C2'	57:AA:482:A:OP2	2.66	0.42
57:AA:1368:G:C2	57:AA:1369:G:C8	3.08	0.42
57:AA:1407:C:O2	57:AA:1407:C:H2'	2.18	0.42
57:AA:1532:C:H2'	57:AA:1533:G:H5'	2.01	0.42
57:AA:1721:G:H2'	57:AA:1741:A:N6	2.34	0.42
57:AA:1834:U:O3'	57:AA:1835:G:H8	2.02	0.42
57:AA:1865:G:H5'	57:AA:1866:C:P	2.59	0.42
57:AA:2027:G:C6	57:AA:2028:U:C4	3.08	0.42
57:AA:2491:U:O2'	57:AA:2492:U:H5'	2.20	0.42
57:AA:2807:G:N1	57:AA:2893:G:N1	2.65	0.42
1:Bb:72:GLY:O	1:Bb:94:ASN:HA	2.20	0.42
1:Bb:102:LEU:O	1:Bb:105:PHE:HB2	2.20	0.42
1:Bb:212:GLN:O	1:Bb:216:SER:HB2	2.20	0.42
2:Bc:22:TRP:HZ3	2:Bc:24:ALA:HB2	1.85	0.42
2:Bc:43:LEU:HD21	2:Bc:91:LEU:CD2	2.46	0.42
2:Bc:43:LEU:HD12	2:Bc:55:VAL:HG13	2.00	0.42
3:Bd:36:ARG:O	3:Bd:38:TYR:N	2.51	0.42
3:Bd:56:VAL:O	3:Bd:57:ARG:C	2.63	0.42
3:Bd:79:PHE:HD1	3:Bd:207:TYR:CD1	2.37	0.42
3:Bd:105:VAL:HG21	3:Bd:126:ILE:HG12	2.02	0.42
3:Bd:157:LEU:CD1	3:Bd:161:ASN:HD21	2.32	0.42
4:Be:146:ALA:C	4:Be:148:VAL:N	2.77	0.42
6:Bg:10:ARG:NH2	22:Ba:1346:A:C8	2.88	0.42
6:Bg:15:ASP:N	6:Bg:19:GLY:HA2	2.35	0.42
8:Bi:50:LEU:HD23	8:Bi:85:LEU:CD2	2.49	0.42
14:Bo:8:LYS:HG2	14:Bo:12:ILE:HD11	2.02	0.42
16:Bq:27:PHE:HA	16:Bq:28:PRO:HD3	1.84	0.42
19:Bt:29:LYS:O	19:Bt:33:ILE:HG13	2.19	0.42
21:By:61:ARG:NH2	21:By:81:ARG:HG2	2.34	0.42
22:Ba:82:U:H6	22:Ba:83:U:H5	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:226:G:O2'	22:Ba:227:G:H5'	2.19	0.42
22:Ba:266:G:O2'	22:Ba:267:C:OP2	2.30	0.42
22:Ba:530:G:N3	22:Ba:530:G:C2'	2.81	0.42
22:Ba:853:G:H2'	22:Ba:854:G:H8	1.85	0.42
22:Ba:1170:A:C6	22:Ba:1171:G:H1'	2.55	0.42
22:Ba:1323:G:H4'	22:Ba:1363:C:C2	2.54	0.42
22:Ba:1375:A:C2	22:Ba:1376:U:C2	3.07	0.42
22:Ba:1463:C:O2'	22:Ba:1464:G:H5'	2.20	0.42
24:Bv:24:U:O2'	57:BA:1923:U:H5"	2.20	0.42
25:Bw:17(A):U:H5'	57:BA:2180:U:H4'	2.01	0.42
26:BC:7:ARG:HH22	26:BC:219:MET:CB	2.32	0.42
27:BD:7:LYS:HE3	57:BA:706:A:OP1	2.19	0.42
27:BD:24:ILE:O	27:BD:82:ILE:O	2.36	0.42
28:BE:137:HIS:CB	28:BE:138:PRO:HD2	2.49	0.42
29:BF:9:ILE:O	29:BF:128:ALA:HB2	2.20	0.42
29:BF:37:VAL:HG13	29:BF:184:TYR:CD1	2.55	0.42
30:BG:57:ALA:CB	30:BG:90:LEU:HD21	2.50	0.42
30:BG:146:TYR:C	30:BG:148:MET:H	2.27	0.42
31:BH:83:TYR:HA	31:BH:135:GLY:N	2.27	0.42
32:BI:110:ASP:HB3	32:BI:111:PRO:HD2	2.01	0.42
33:BJ:85:ASP:O	33:BJ:86:PRO:O	2.37	0.42
35:BO:13:ASN:O	35:BO:15:GLY:N	2.52	0.42
36:BP:18:ARG:HD2	57:BA:661:C:O3'	2.19	0.42
36:BP:70:GLN:HG3	57:BA:389:G:N1	2.35	0.42
36:BP:105:LEU:HG	57:BA:626:U:H3	1.85	0.42
37:BQ:58:PHE:O	37:BQ:58:PHE:CD1	2.69	0.42
37:BQ:109:VAL:HG12	37:BQ:113:GLN:HB2	2.01	0.42
39:BS:35:ILE:O	39:BS:35:ILE:HG23	2.19	0.42
40:BT:26:ASP:O	40:BT:26:ASP:CG	2.63	0.42
42:BV:21:ARG:CB	42:BV:91:TYR:HB2	2.48	0.42
43:BW:64:MET:O	43:BW:65:LEU:CB	2.63	0.42
46:BZ:4:ARG:HD2	46:BZ:60:GLU:OE1	2.20	0.42
46:BZ:23:LYS:NZ	46:BZ:23:LYS:HA	2.34	0.42
46:BZ:70:LEU:O	46:BZ:71:VAL:C	2.62	0.42
49:B2:42:GLY:O	49:B2:44:LEU:N	2.52	0.42
56:B9:15:LYS:NZ	57:BA:2753:A:H1'	2.35	0.42
57:BA:15:G:H1	57:BA:525:U:H3	1.65	0.42
57:BA:57:C:H2'	57:BA:58:G:O4'	2.20	0.42
57:BA:271(Q):G:O2'	57:BA:271(R):G:H8	2.03	0.42
57:BA:327:G:O2'	57:BA:328:U:H5'	2.20	0.42
57:BA:412:A:N3	57:BA:412:A:H2'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1231:G:H2'	57:BA:1232:G:C8	2.54	0.42
57:BA:1366:A:O2'	57:BA:1367:A:H5'	2.19	0.42
57:BA:2335:A:O2'	57:BA:2336:A:H5"	2.20	0.42
57:BA:2807:G:C2'	57:BA:2808:U:H5"	2.50	0.42
57:BA:2884:U:H2'	57:BA:2885:C:H5'	2.02	0.42
58:BB:17:C:H2'	58:BB:18:G:O4'	2.20	0.42
1:Ab:97:TRP:O	1:Ab:98:LEU:HD23	2.20	0.42
2:Ac:110:ASN:C	2:Ac:112:SER:N	2.78	0.42
3:Ad:68:TYR:N	3:Ad:68:TYR:CD1	2.86	0.42
7:Ah:36:LEU:C	7:Ah:38:ILE:N	2.77	0.42
7:Ah:133:LEU:HD23	7:Ah:133:LEU:C	2.45	0.42
9:Aj:6:ILE:HD12	9:Aj:6:ILE:C	2.44	0.42
10:Ak:108:ILE:HD12	10:Ak:108:ILE:N	2.34	0.42
12:Am:90:LEU:C	12:Am:92:HIS:N	2.76	0.42
14:Ao:18:PHE:O	14:Ao:18:PHE:HD1	2.03	0.42
15:Ap:14:ASN:HA	15:Ap:42:ARG:NH2	2.33	0.42
21:Ay:9:GLU:C	21:Ay:11:ALA:N	2.78	0.42
21:Ay:39:ILE:O	21:Ay:39:ILE:HG22	2.20	0.42
22:Aa:308:C:H2'	22:Aa:309:G:H8	1.85	0.42
22:Aa:596:C:O2'	22:Aa:597:G:H5'	2.19	0.42
22:Aa:1486:G:H2'	22:Aa:1487:G:O4'	2.20	0.42
27:AD:65:ILE:HD11	27:AD:67:PHE:CE1	2.55	0.42
27:AD:65:ILE:HD11	27:AD:67:PHE:CD2	2.54	0.42
27:AD:67:PHE:CE1	27:AD:157:ARG:CZ	3.03	0.42
29:AF:90:PHE:HB3	57:AA:588:U:H1'	2.00	0.42
29:AF:192:LEU:CD2	29:AF:194:MET:HE2	2.50	0.42
30:AG:34:LEU:HD11	30:AG:172:LEU:HD21	2.01	0.42
30:AG:58:GLN:O	30:AG:61:ALA:HB3	2.19	0.42
32:AI:119:PRO:O	32:AI:121:LYS:HB2	2.19	0.42
34:AN:112:LEU:C	34:AN:112:LEU:HD12	2.44	0.42
37:AQ:67:ARG:HG2	37:AQ:67:ARG:NH1	2.34	0.42
37:AQ:116:GLU:OE2	37:AQ:120:ILE:HD11	2.19	0.42
38:AR:32:GLY:HA2	38:AR:116:LEU:HD12	2.01	0.42
40:AT:119:LYS:NZ	57:AA:2867:G:OP2	2.44	0.42
42:AV:5:VAL:HG21	42:AV:35:LEU:CG	2.49	0.42
42:AV:20:LEU:C	42:AV:21:ARG:HD3	2.44	0.42
42:AV:40:LEU:N	42:AV:40:LEU:HD22	2.34	0.42
43:AW:28:SER:O	43:AW:30:GLU:N	2.53	0.42
48:A1:8:SER:OG	48:A1:10:LYS:HG3	2.20	0.42
51:A4:7:PRO:O	51:A4:8:LYS:HB3	2.20	0.42
51:A4:39:CYS:O	51:A4:40:HIS:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:118:A:H5'	57:AA:119:A:H8	1.84	0.42
57:AA:541:C:O2'	57:AA:542:C:H5'	2.19	0.42
57:AA:612:C:C2	57:AA:616:G:N2	2.88	0.42
57:AA:1019:U:H3	57:AA:1142(A):A:N6	2.04	0.42
57:AA:1048:A:N6	57:AA:1106:A:H62	2.17	0.42
57:AA:1278:A:H2'	57:AA:1279:G:C8	2.55	0.42
57:AA:1419:A:C8	57:AA:1579:A:N6	2.88	0.42
57:AA:1447:G:H2'	57:AA:1448:G:H8	1.85	0.42
57:AA:1484:G:H21	57:AA:1505:C:N4	2.18	0.42
57:AA:2202:C:H2'	57:AA:2203:U:O4'	2.20	0.42
57:AA:2432:A:H2'	57:AA:2433:A:C8	2.55	0.42
57:AA:2459:A:C4	57:AA:2460:U:C6	3.08	0.42
58:AB:65:C:C2'	58:AB:66:A:H5'	2.50	0.42
58:AB:79:C:H2'	58:AB:80:U:O4'	2.20	0.42
2:Bc:16:ARG:HH11	2:Bc:16:ARG:HA	1.84	0.42
4:Be:31:LEU:CD2	4:Be:45:PHE:HB2	2.48	0.42
4:Be:75:THR:OG1	4:Be:76:ILE:N	2.51	0.42
4:Be:145:LYS:HE2	4:Be:149:GLU:OE1	2.20	0.42
5:Bf:69:GLU:CD	5:Bf:69:GLU:H	2.28	0.42
6:Bg:136:LYS:NZ	6:Bg:136:LYS:HB3	2.34	0.42
7:Bh:51:VAL:HG11	7:Bh:60:ARG:HB2	2.01	0.42
7:Bh:91:ARG:CG	7:Bh:91:ARG:NH1	2.83	0.42
9:Bj:81:THR:CG2	9:Bj:85:LEU:HD12	2.49	0.42
14:Bo:63:ARG:HG2	14:Bo:67:LEU:CD1	2.49	0.42
15:Bp:21:VAL:HG12	15:Bp:34:GLU:O	2.20	0.42
18:Bs:31:ILE:HG23	18:Bs:49:ILE:HG23	2.02	0.42
22:Ba:284:G:O2'	22:Ba:285:G:H5'	2.20	0.42
22:Ba:316:G:OP2	22:Ba:351:G:O2'	2.37	0.42
22:Ba:458:C:H2'	22:Ba:460:G:C8	2.55	0.42
22:Ba:473:G:H2'	22:Ba:474:G:C8	2.48	0.42
22:Ba:583:A:H2'	22:Ba:584:G:O4'	2.19	0.42
22:Ba:693:G:H2'	22:Ba:694:A:O4'	2.20	0.42
22:Ba:949:A:C2	22:Ba:1233:G:N3	2.87	0.42
22:Ba:1104:G:O2'	22:Ba:1105:A:H5'	2.19	0.42
22:Ba:1144:G:C2	22:Ba:1145:C:N3	2.88	0.42
22:Ba:1206:G:O2'	22:Ba:1207:G:H5'	2.20	0.42
22:Ba:1270:C:O2'	22:Ba:1314:C:H5'	2.20	0.42
22:Ba:1491:G:N2	57:BA:1913:A:H61	2.18	0.42
24:Bv:51:C:C4	24:Bv:52:G:N7	2.88	0.42
25:Bw:9:G:H4'	25:Bw:46:G:H5'	2.02	0.42
27:BD:145:VAL:HG22	27:BD:191:ALA:HB1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:263:ARG:HB2	27:BD:263:ARG:HH11	1.82	0.42
28:BE:33:VAL:HG23	28:BE:47:VAL:HG23	2.00	0.42
30:BG:61:ALA:O	30:BG:65:GLY:N	2.47	0.42
31:BH:83:TYR:HA	31:BH:135:GLY:O	2.20	0.42
32:BI:5:LEU:C	32:BI:6:LEU:HG	2.45	0.42
32:BI:74:ASN:O	32:BI:76:THR:N	2.52	0.42
32:BI:76:THR:OG1	32:BI:139:GLN:NE2	2.53	0.42
34:BN:43:THR:HA	34:BN:44:PRO:HD2	1.77	0.42
34:BN:99:LEU:O	34:BN:103:VAL:HG23	2.19	0.42
34:BN:118:LYS:O	34:BN:121:LYS:HE3	2.20	0.42
36:BP:16:ARG:CG	36:BP:17:LYS:N	2.83	0.42
37:BQ:43:THR:OG1	37:BQ:45:GLN:HG2	2.19	0.42
38:BR:107:ASP:C	38:BR:107:ASP:OD2	2.61	0.42
39:BS:63:THR:HG23	58:BB:50:G:P	2.59	0.42
39:BS:83:LYS:NZ	39:BS:105:ALA:CB	2.83	0.42
40:BT:20:PRO:HD2	40:BT:85:LYS:HB2	2.01	0.42
41:BU:8:VAL:HG22	41:BU:12:ARG:HG2	2.01	0.42
42:BV:6:LYS:O	42:BV:37:VAL:HB	2.19	0.42
42:BV:68:LYS:HD3	42:BV:68:LYS:HA	1.90	0.42
45:BY:22:GLY:O	45:BY:23:ARG:HG2	2.20	0.42
46:BZ:45:ASP:O	46:BZ:46:LYS:C	2.63	0.42
49:B2:40:SER:C	49:B2:42:GLY:H	2.28	0.42
52:B5:33:CYS:C	52:B5:35:GLU:N	2.77	0.42
52:B5:51:TYR:CD1	52:B5:52:TYR:N	2.83	0.42
55:B8:37:SER:C	55:B8:39:LYS:N	2.72	0.42
57:BA:431:U:O5’	57:BA:431:U:H6	2.03	0.42
57:BA:1532:C:O2’	57:BA:1533:G:H5’	2.19	0.42
57:BA:2464:C:O2’	57:BA:2465:C:C6	2.70	0.42
57:BA:2491:U:H5’	57:BA:2570:G:C5’	2.20	0.42
57:BA:2553:G:H2’	57:BA:2554:U:C4’	2.50	0.42
57:BA:2637:U:C2’	57:BA:2638:G:H5’	2.50	0.42
57:BA:2784:C:O2’	57:BA:2785:C:H5’	2.20	0.42
2:Ac:29:TYR:OH	13:An:54:PRO:HD2	2.20	0.42
3:Ad:56:VAL:O	3:Ad:57:ARG:C	2.61	0.42
3:Ad:101:LEU:O	3:Ad:101:LEU:HG	2.20	0.42
4:Ae:47:LYS:HD3	4:Ae:47:LYS:H	1.85	0.42
4:Ae:75:THR:HG23	4:Ae:76:ILE:H	1.83	0.42
8:Ai:79:LEU:HD11	8:Ai:83:ARG:NH2	2.34	0.42
8:Ai:125:TYR:HD2	8:Ai:126:SER:H	1.66	0.42
10:Ak:33:THR:HB	10:Ak:37:GLY:CA	2.48	0.42
19:At:25:ARG:HH11	19:At:25:ARG:HG3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Au:10:ARG:HA	20:Au:13:ILE:HB	2.01	0.42
22:Aa:104:G:C2	22:Aa:105:G:C8	3.07	0.42
22:Aa:145:G:H2'	22:Aa:146:G:O4'	2.20	0.42
22:Aa:180:U:H2'	22:Aa:181:G:H5'	2.01	0.42
22:Aa:262:A:C6	22:Aa:263:A:C6	3.08	0.42
22:Aa:304:U:H2'	22:Aa:305:G:C8	2.55	0.42
22:Aa:377:G:H2'	22:Aa:378:G:C8	2.54	0.42
22:Aa:962:C:H2'	22:Aa:963:G:C8	2.46	0.42
22:Aa:1225:A:H2'	22:Aa:1225:A:N3	2.34	0.42
22:Aa:1390:U:O2'	22:Aa:1391:U:H5'	2.19	0.42
25:Aw:55:U:O2'	25:Aw:57:A:N7	2.47	0.42
26:AC:3:LYS:O	26:AC:4:HIS:HD2	2.02	0.42
27:AD:28:GLU:OE1	27:AD:29:PRO:HD3	2.19	0.42
27:AD:37:LEU:HA	27:AD:37:LEU:HD23	1.82	0.42
27:AD:85:ASP:HA	27:AD:86:PRO:HD2	1.89	0.42
27:AD:227:ASN:O	27:AD:228:PRO:C	2.63	0.42
28:AE:56:PRO:O	28:AE:58:ARG:N	2.52	0.42
30:AG:118:ARG:HH11	30:AG:118:ARG:CG	2.32	0.42
30:AG:123:ASN:HB2	30:AG:126:ASP:OD2	2.20	0.42
31:AH:126:PRO:HG2	31:AH:127:GLU:H	1.84	0.42
32:AI:83:ALA:HB3	32:AI:143:SER:O	2.20	0.42
35:AO:24:VAL:HG21	35:AO:33:ALA:HB2	1.99	0.42
36:AP:105:LEU:HG	57:AA:626:U:H3	1.84	0.42
37:AQ:43:THR:HB	37:AQ:45:GLN:NE2	2.11	0.42
39:AS:62:LYS:C	39:AS:64:GLU:N	2.78	0.42
42:AV:83:ARG:HH11	42:AV:83:ARG:HG2	1.85	0.42
43:AW:4:LYS:HG2	43:AW:5:ALA:N	2.35	0.42
43:AW:88:ARG:HA	43:AW:88:ARG:HD2	1.78	0.42
44:AX:52:VAL:N	44:AX:82:GLN:O	2.41	0.42
46:AZ:24:LEU:CD2	46:AZ:86:VAL:HG22	2.50	0.42
46:AZ:102:LEU:HD11	46:AZ:124:ILE:CG2	2.41	0.42
46:AZ:129:SER:O	46:AZ:131:ARG:N	2.53	0.42
51:A4:33:VAL:HG12	51:A4:35:VAL:H	1.85	0.42
52:A5:3:LYS:HD3	57:AA:2613:U:H2'	2.01	0.42
52:A5:51:TYR:CD1	52:A5:52:TYR:N	2.83	0.42
55:A8:37:SER:O	55:A8:40:GLU:N	2.52	0.42
57:AA:272(E):G:N3	57:AA:364:C:N3	2.68	0.42
57:AA:401:A:H2'	57:AA:402:A:C8	2.54	0.42
57:AA:898:C:C2'	57:AA:899:A:H5'	2.49	0.42
57:AA:1165:U:O2'	57:AA:1166:C:H5'	2.19	0.42
57:AA:1441:G:O2'	57:AA:1442:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1473:G:H2'	57:AA:1474:C:O4'	2.20	0.42
57:AA:1657:C:O2'	57:AA:1658:C:H5'	2.19	0.42
57:AA:2283:C:H2'	57:AA:2284:C:H5'	2.02	0.42
57:AA:2360:A:H5'	57:AA:2360:A:C8	2.53	0.42
57:AA:2476:A:O2'	57:AA:2477:C:H5"	2.20	0.42
58:AB:87:G:H3'	58:AB:88:C:H5"	2.02	0.42
1:Bb:42:ILE:O	1:Bb:42:ILE:HG23	2.20	0.42
2:Bc:4:LYS:NZ	22:Ba:1191:A:H5"	2.34	0.42
2:Bc:101:LEU:HD23	2:Bc:102:ASN:N	2.35	0.42
2:Bc:110:ASN:CG	2:Bc:140:ARG:HD2	2.45	0.42
2:Bc:207:VAL:O	2:Bc:207:VAL:HG12	2.19	0.42
4:Be:11:ILE:HG22	4:Be:12:LEU:N	2.35	0.42
4:Be:68:GLU:O	4:Be:70:PRO:HD2	2.20	0.42
6:Bg:22:LEU:O	6:Bg:22:LEU:HD23	2.20	0.42
8:Bi:114:TYR:HD1	9:Bj:60:ARG:CG	2.32	0.42
9:Bj:20:ALA:C	9:Bj:22:LYS:H	2.28	0.42
9:Bj:40:LEU:CD2	22:Ba:1280:A:H5'	2.50	0.42
9:Bj:55:LYS:HG2	22:Ba:972:C:C2'	2.50	0.42
11:Bl:44:THR:HA	11:Bl:45:PRO:HD3	1.78	0.42
11:Bl:86:ARG:HB2	11:Bl:101:VAL:CG2	2.50	0.42
12:Bm:10:PRO:HG2	12:Bm:18:ALA:HB1	2.00	0.42
12:Bm:29:ARG:HH12	12:Bm:64:TRP:HB2	1.85	0.42
16:Bq:76:LEU:HD12	16:Bq:78:GLU:H	1.85	0.42
19:Bt:25:ARG:HH11	19:Bt:25:ARG:HG3	1.84	0.42
22:Ba:592:G:C2	22:Ba:593:G:C8	3.07	0.42
22:Ba:922:G:H2'	22:Ba:923:A:C8	2.54	0.42
22:Ba:944:G:C4	22:Ba:1340:A:N1	2.88	0.42
22:Ba:954:G:C2	22:Ba:955:U:C2	3.07	0.42
22:Ba:1278:U:H5"	22:Ba:1279:A:C8	2.55	0.42
27:BD:226:MET:HB3	27:BD:230:ASP:CB	2.50	0.42
28:BE:77:ILE:HG22	28:BE:78:LEU:HD12	2.01	0.42
29:BF:9:ILE:HA	29:BF:13:SER:O	2.20	0.42
30:BG:60:LEU:C	30:BG:60:LEU:HD13	2.44	0.42
34:BN:134:ARG:H	34:BN:135:PRO:HD3	1.85	0.42
36:BP:59:LEU:HA	36:BP:61:ARG:NE	2.30	0.42
39:BS:62:LYS:C	39:BS:64:GLU:N	2.76	0.42
46:BZ:94:GLU:HB3	46:BZ:95:PRO:CD	2.43	0.42
48:B1:19:GLN:CB	48:B1:35:THR:HG23	2.49	0.42
48:B1:52:ARG:NH1	57:BA:2218:U:O2	2.53	0.42
49:B2:32:LEU:CD2	49:B2:53:LEU:HD13	2.37	0.42
49:B2:61:LEU:HD23	49:B2:61:LEU:HA	1.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:43:ILE:O	50:B3:47:VAL:CG2	2.65	0.42
53:B6:8:LYS:O	53:B6:9:LEU:C	2.62	0.42
53:B6:37:ARG:O	53:B6:48:VAL:O	2.37	0.42
55:B8:30:ARG:NH2	57:BA:2419:U:O4	2.52	0.42
57:BA:545:C:N4	57:BA:547:A:C2	2.85	0.42
57:BA:718:A:C2'	57:BA:719:C:H5'	2.50	0.42
57:BA:863:A:H8	57:BA:863:A:O5'	2.02	0.42
57:BA:1473:G:H2'	57:BA:1474:C:O4'	2.20	0.42
57:BA:2756:U:H4'	57:BA:2757:A:OP1	2.20	0.42
1:Ab:20:GLU:O	1:Ab:39:ILE:HG23	2.20	0.42
1:Ab:25:ASN:HA	1:Ab:26:PRO:HD2	1.86	0.42
2:Ac:110:ASN:HA	2:Ac:116:VAL:HG22	2.02	0.42
4:Ae:67:VAL:HG22	4:Ae:68:GLU:N	2.33	0.42
6:Ag:5:ARG:N	6:Ag:5:ARG:HD2	2.35	0.42
6:Ag:136:LYS:NZ	6:Ag:136:LYS:HB3	2.34	0.42
9:Aj:40:LEU:HD22	9:Aj:41:PRO:HD2	1.98	0.42
9:Aj:54:PHE:CZ	9:Aj:55:LYS:NZ	2.88	0.42
11:Al:92:ASP:HB2	22:Aa:523:A:H61	1.85	0.42
11:Al:120:TYR:HD1	11:Al:120:TYR:N	2.18	0.42
11:Al:120:TYR:CD1	11:Al:120:TYR:N	2.88	0.42
12:Am:19:LEU:C	12:Am:22:ILE:HD13	2.44	0.42
12:Am:97:PRO:C	12:Am:99:ARG:N	2.78	0.42
13:An:36:PHE:CD1	13:An:37:PHE:N	2.88	0.42
15:Ap:40:ASP:C	15:Ap:42:ARG:H	2.28	0.42
16:Aq:59:ILE:HG22	16:Aq:60:ILE:N	2.35	0.42
20:Au:13:ILE:HD13	22:Aa:1288:A:H4'	2.00	0.42
21:Ay:49:ASP:O	21:Ay:50:CYS:CB	2.68	0.42
21:Ay:49:ASP:OD2	21:Ay:66:VAL:HB	2.19	0.42
22:Aa:451:A:N6	22:Aa:480:U:H2'	2.35	0.42
22:Aa:991:U:O4	22:Aa:1212:U:O2'	2.35	0.42
22:Aa:1054:C:C2'	22:Aa:1055:A:H5"	2.49	0.42
22:Aa:1418:A:H2	57:AA:1948:G:N3	2.17	0.42
25:Aw:36:U:O4	25:Aw:37:A:N6	2.53	0.42
26:AC:22:THR:H	26:AC:25:GLU:CG	2.33	0.42
28:AE:51:PHE:CD1	28:AE:51:PHE:C	2.97	0.42
31:AH:43:VAL:CG1	31:AH:52:VAL:HA	2.49	0.42
31:AH:52:VAL:HG12	31:AH:53:GLU:N	2.35	0.42
32:AI:118:LYS:HZ1	32:AI:119:PRO:C	2.27	0.42
33:AJ:27:VAL:HA	33:AJ:111:LEU:O	2.20	0.42
36:AP:72:PRO:HD3	57:AA:389:G:H22	1.85	0.42
37:AQ:21:THR:O	37:AQ:22:LYS:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:AR:14:SER:O	38:AR:15:SER:C	2.63	0.42
38:AR:17:ARG:HD2	38:AR:17:ARG:HH11	1.74	0.42
38:AR:28:LEU:HD21	38:AR:114:VAL:HG12	2.01	0.42
39:AS:24:LEU:CB	39:AS:85:VAL:HB	2.50	0.42
40:AT:35:LYS:HZ1	40:AT:41:ARG:NH2	2.18	0.42
41:AU:54:LYS:HE3	57:AA:994:C:C6	2.55	0.42
43:AW:47:VAL:O	43:AW:50:VAL:HG12	2.19	0.42
46:AZ:29:TYR:HD2	46:AZ:29:TYR:N	2.17	0.42
46:AZ:150:LEU:CD2	46:AZ:150:LEU:H	2.32	0.42
48:A1:50:ARG:HG3	57:AA:2200:C:OP1	2.20	0.42
50:A3:31:LEU:HD12	57:AA:1157:G:O2'	2.20	0.42
57:AA:70:G:C2'	57:AA:113:G:O2'	2.67	0.42
57:AA:106:C:O5'	57:AA:106:C:H6	2.03	0.42
57:AA:412:A:N7	57:AA:2411:A:H2	2.18	0.42
57:AA:576:U:H2'	57:AA:577:G:C8	2.55	0.42
57:AA:662:G:H2'	57:AA:663:G:H8	1.84	0.42
57:AA:933:A:H2'	57:AA:934:G:O4'	2.20	0.42
57:AA:1138:G:H2'	57:AA:1139:G:O4'	2.19	0.42
57:AA:1794:U:H2'	57:AA:1795:C:C6	2.55	0.42
57:AA:2184:G:H2'	57:AA:2185:C:C6	2.55	0.42
57:AA:2807:G:C2'	57:AA:2808:U:H5"	2.49	0.42
3:Bd:42:GLN:NE2	22:Ba:540:G:H21	2.18	0.42
3:Bd:177:ASP:O	3:Bd:179:GLU:N	2.53	0.42
4:Be:63:ARG:HH11	4:Be:63:ARG:HG2	1.85	0.42
5:Bf:41:GLU:H	5:Bf:62:TRP:HE3	1.67	0.42
8:Bi:26:VAL:HG13	8:Bi:61:ALA:O	2.20	0.42
12:Bm:28:ALA:O	12:Bm:30:ALA:N	2.53	0.42
17:Br:71:LYS:HD3	22:Ba:735:C:H5'	2.02	0.42
19:Bt:31:SER:HA	19:Bt:34:LYS:HD2	2.02	0.42
22:Ba:383:A:C2'	22:Ba:384:G:H5'	2.50	0.42
22:Ba:811:C:H4'	22:Ba:900:A:H61	1.82	0.42
22:Ba:977:A:H2'	22:Ba:978:A:H5'	2.01	0.42
22:Ba:1004:A:C8	22:Ba:1036:G:O6	2.73	0.42
22:Ba:1055:A:C6	22:Ba:1206:G:C5	3.08	0.42
22:Ba:1141:C:H6	22:Ba:1141:C:H3'	1.85	0.42
22:Ba:1142:G:C8	22:Ba:1143:G:C8	3.07	0.42
22:Ba:1456:G:H2'	22:Ba:1457:G:O4'	2.20	0.42
24:Bv:61:C:C2'	24:Bv:62:C:H5'	2.49	0.42
27:BD:161:THR:O	27:BD:162:SER:HB3	2.20	0.42
28:BE:48:GLN:C	28:BE:49:LEU:HD23	2.45	0.42
28:BE:132:HIS:CD2	28:BE:135:HIS:CE1	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:192:LEU:C	29:BF:192:LEU:HD23	2.45	0.42
30:BG:34:LEU:HD21	30:BG:103:LEU:CD1	2.50	0.42
30:BG:75:LYS:HB3	30:BG:76:SER:H	1.59	0.42
30:BG:79:ASN:CG	57:BA:2308:G:N2	2.78	0.42
30:BG:110:ALA:HA	30:BG:140:ILE:O	2.20	0.42
32:BI:23:PRO:O	32:BI:24:GLY:C	2.61	0.42
32:BI:37:VAL:CG1	32:BI:38:LEU:N	2.83	0.42
32:BI:88:ILE:HG12	32:BI:142:VAL:HG13	2.02	0.42
36:BP:18:ARG:HG2	57:BA:661:C:H4'	2.01	0.42
37:BQ:137:TYR:CE2	46:BZ:81:ARG:NH1	2.88	0.42
38:BR:96:ARG:HG3	57:BA:2882:A:H5'	2.02	0.42
40:BT:28:VAL:CG2	40:BT:47:GLY:H	2.23	0.42
40:BT:30:VAL:CG1	40:BT:84:GLN:CG	2.98	0.42
40:BT:64:ARG:NH1	40:BT:103:ARG:HA	2.34	0.42
42:BV:15:GLU:CB	42:BV:16:PRO:CD	2.97	0.42
44:BX:20:GLY:O	44:BX:25:LYS:HB2	2.20	0.42
44:BX:66:LEU:HD13	57:BA:64:A:C8	2.54	0.42
45:BY:4:LYS:O	45:BY:5:MET:C	2.62	0.42
46:BZ:61:LEU:HA	46:BZ:62:PRO:HD3	1.87	0.42
46:BZ:81:ARG:O	46:BZ:82:ARG:HB2	2.20	0.42
46:BZ:117:LEU:HD12	46:BZ:174:VAL:HG22	2.02	0.42
50:B3:31:LEU:HD12	57:BA:1157:G:O2'	2.19	0.42
51:B4:27:THR:O	51:B4:28:LYS:HB3	2.20	0.42
52:B5:40:LYS:NZ	52:B5:46:CYS:CB	2.78	0.42
53:B6:11:LEU:HD12	53:B6:26:ASN:HB2	2.01	0.42
55:B8:48:PHE:O	55:B8:49:VAL:CG1	2.67	0.42
57:BA:68:G:H2'	57:BA:69:C:C6	2.54	0.42
57:BA:269:U:O2	57:BA:269:U:H2'	2.20	0.42
57:BA:909:A:H2'	57:BA:912:C:H5	1.84	0.42
57:BA:1419:A:C8	57:BA:1579:A:N6	2.88	0.42
57:BA:1448:G:H2'	57:BA:1449:A:C8	2.55	0.42
57:BA:1528:A:N1	57:BA:1542:A:H2	2.18	0.42
57:BA:1957:C:H2'	57:BA:1958:C:C6	2.49	0.42
57:BA:2053:G:H1	57:BA:2616:C:H42	1.68	0.42
57:BA:2070:G:C2	57:BA:2442:C:C2	3.08	0.42
57:BA:2150:U:H2'	57:BA:2151:G:H8	1.85	0.42
57:BA:2184:G:H2'	57:BA:2185:C:C6	2.55	0.42
57:BA:2287:A:C2	57:BA:2346:A:C2	3.07	0.42
58:BB:77:U:H2'	58:BB:78:A:H5'	2.01	0.42
58:BB:90:A:C8	58:BB:91:C:O4'	2.73	0.42
58:BB:105:A:H2'	58:BB:106:G:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:71:VAL:CB	1:Ab:164:VAL:HG12	2.30	0.41
2:Ac:11:ARG:HG2	2:Ac:11:ARG:HH11	1.85	0.41
2:Ac:43:LEU:HD12	2:Ac:55:VAL:HG13	2.02	0.41
2:Ac:106:VAL:C	2:Ac:108:ASN:H	2.27	0.41
2:Ac:110:ASN:CG	2:Ac:140:ARG:HD2	2.45	0.41
3:Ad:10:ARG:O	3:Ad:10:ARG:HG2	2.19	0.41
3:Ad:127:THR:OG1	3:Ad:130:GLY:O	2.35	0.41
6:Ag:37:ASN:C	6:Ag:39:ALA:H	2.27	0.41
7:Ah:1:MET:H2	22:Aa:824:C:H4'	1.84	0.41
7:Ah:25:ASP:HA	7:Ah:59:LEU:O	2.20	0.41
8:Ai:95:LYS:HD3	8:Ai:95:LYS:C	2.44	0.41
9:Aj:8:LEU:HB3	9:Aj:16:LEU:HD21	2.02	0.41
10:Ak:34:ASP:CB	10:Ak:40:ILE:HD11	2.41	0.41
10:Ak:111:ASP:HA	17:Ar:84:LYS:CD	2.50	0.41
14:Ao:72:ARG:HG2	14:Ao:72:ARG:NH1	2.33	0.41
15:Ap:55:ARG:O	15:Ap:58:TYR:HB3	2.19	0.41
19:At:45:GLN:HB2	19:At:91:LEU:HD22	2.01	0.41
19:At:75:ASN:O	19:At:79:ARG:HB2	2.20	0.41
19:At:93:GLU:C	19:At:93:GLU:OE1	2.63	0.41
21:Ay:37:PRO:O	21:Ay:38:ARG:C	2.63	0.41
22:Aa:82:U:H6	22:Aa:83:U:H5	1.68	0.41
22:Aa:143:A:H2	22:Aa:220:G:H1	1.67	0.41
22:Aa:318:G:C2	22:Aa:336:C:N3	2.88	0.41
22:Aa:536:C:H2'	22:Aa:537:G:H8	1.84	0.41
22:Aa:693:G:H2'	22:Aa:694:A:O4'	2.19	0.41
22:Aa:991:U:O2	22:Aa:993:G:H8	2.03	0.41
22:Aa:1010:G:C2	22:Aa:1020:U:H1'	2.54	0.41
25:Aw:17(A):U:O2'	25:Aw:18:G:P	2.78	0.41
27:AD:35:LYS:O	27:AD:37:LEU:HB2	2.20	0.41
27:AD:61:LEU:HD12	27:AD:61:LEU:HA	1.84	0.41
27:AD:270:ILE:H	27:AD:270:ILE:HD12	1.84	0.41
28:AE:19:ARG:HA	35:AO:73:ASP:HA	2.02	0.41
28:AE:46:ALA:HB1	28:AE:82:ARG:H	1.85	0.41
30:AG:34:LEU:N	30:AG:34:LEU:CD1	2.81	0.41
30:AG:40:ASN:ND2	30:AG:41:GLN:N	2.65	0.41
30:AG:138:GLN:HE21	30:AG:149:VAL:HG23	1.85	0.41
31:AH:11:VAL:HG12	31:AH:15:VAL:HG23	2.02	0.41
31:AH:23:ARG:O	31:AH:24:VAL:HB	2.19	0.41
31:AH:54:ARG:HD2	31:AH:56:SER:O	2.19	0.41
32:AI:94:ALA:HA	32:AI:98:ALA:HB3	2.02	0.41
34:AN:25:ARG:HD2	57:AA:1141:U:OP1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:AQ:41:TRP:HB3	37:AQ:94:VAL:HB	2.01	0.41
37:AQ:47:ILE:CD1	37:AQ:70:PRO:HD3	2.50	0.41
38:AR:53:HIS:CD2	57:AA:2840:C:H4'	2.55	0.41
39:AS:44:LYS:C	39:AS:46:VAL:H	2.27	0.41
39:AS:74:ALA:O	39:AS:77:ALA:HB3	2.20	0.41
43:AW:13:SER:O	43:AW:16:LYS:HB2	2.20	0.41
46:AZ:8:TYR:HB2	46:AZ:38:TYR:CE2	2.55	0.41
46:AZ:151:HIS:CB	46:AZ:170:THR:HA	2.37	0.41
47:A0:51:VAL:HG21	47:A0:80:HIS:HA	2.02	0.41
49:A2:46:GLN:HG2	49:A2:49:LYS:CE	2.49	0.41
55:A8:49:VAL:HG12	57:AA:2360:A:OP1	2.20	0.41
57:AA:83:G:N2	57:AA:103:A:OP2	2.49	0.41
57:AA:176:G:C2'	57:AA:177:G:H5'	2.48	0.41
57:AA:545:C:C3'	57:AA:547:A:C5'	2.98	0.41
57:AA:602:G:C6	57:AA:654(U):A:N7	2.88	0.41
57:AA:1278:A:H2'	57:AA:1279:G:H8	1.85	0.41
57:AA:1577:C:H2'	57:AA:1578:U:C1'	2.50	0.41
57:AA:1640:C:O2'	57:AA:1641:A:H5'	2.20	0.41
57:AA:1769:G:O2'	57:AA:1958:C:OP1	2.33	0.41
57:AA:1889:A:H2'	57:AA:1890:A:O4'	2.20	0.41
57:AA:1980:G:O2'	57:AA:1982:C:OP2	2.34	0.41
57:AA:2718:G:H2'	57:AA:2719:G:O4'	2.20	0.41
1:Bb:20:GLU:O	1:Bb:39:ILE:HG23	2.20	0.41
2:Bc:25:GLY:C	2:Bc:27:LYS:N	2.78	0.41
3:Bd:64:LEU:HB2	3:Bd:198:VAL:HG21	2.02	0.41
3:Bd:148:VAL:HG12	3:Bd:152:SER:HB2	2.01	0.41
3:Bd:152:SER:HA	3:Bd:155:LEU:CG	2.50	0.41
4:Be:48:ALA:O	4:Be:50:GLU:N	2.53	0.41
6:Bg:87:VAL:HG12	6:Bg:88:PRO:HD2	2.02	0.41
6:Bg:140:ASP:CA	6:Bg:143:ARG:HH11	2.31	0.41
8:Bi:32:ASP:O	8:Bi:35:GLU:HB3	2.20	0.41
11:Bl:28:LYS:C	11:Bl:30:ALA:N	2.78	0.41
12:Bm:2:ALA:O	12:Bm:4:ILE:HG13	2.20	0.41
12:Bm:57:ARG:O	12:Bm:58:GLU:C	2.63	0.41
14:Bo:37:ASN:N	14:Bo:37:ASN:ND2	2.68	0.41
15:Bp:5:ARG:HD2	22:Ba:376:G:H5"	2.02	0.41
19:Bt:87:LYS:HD2	19:Bt:90:GLN:OE1	2.20	0.41
19:Bt:92:LEU:HD23	19:Bt:92:LEU:HA	1.95	0.41
22:Ba:180:U:H2'	22:Ba:181:G:H5'	2.00	0.41
22:Ba:308:C:H2'	22:Ba:309:G:H8	1.85	0.41
22:Ba:435:C:H2'	22:Ba:435:C:O2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:560:U:H4'	22:Ba:561:U:H5"	2.01	0.41
22:Ba:601:C:O2'	22:Ba:602:A:H5'	2.19	0.41
22:Ba:622:A:C8	22:Ba:623:C:C6	3.08	0.41
22:Ba:825:G:C6	22:Ba:826:C:C4	3.08	0.41
22:Ba:953:G:O6	22:Ba:1228:C:N4	2.53	0.41
22:Ba:1346:A:H61	22:Ba:1374:A:H3'	1.85	0.41
22:Ba:1368:G:O2'	22:Ba:1369:C:H5'	2.20	0.41
22:Ba:1399:C:C2	22:Ba:1401:G:C5	3.08	0.41
27:BD:28:GLU:OE1	27:BD:29:PRO:HD3	2.19	0.41
27:BD:198:ASN:ND2	27:BD:198:ASN:O	2.53	0.41
28:BE:64:LYS:O	28:BE:64:LYS:HG2	2.20	0.41
29:BF:148:LEU:CD2	29:BF:191:ARG:HH11	2.33	0.41
30:BG:42:GLY:N	30:BG:43:LEU:HD22	2.34	0.41
30:BG:88:ILE:CG2	30:BG:89:GLY:N	2.80	0.41
30:BG:130:ASN:ND2	30:BG:160:VAL:HA	2.35	0.41
31:BH:124:GLU:O	31:BH:131:VAL:HA	2.20	0.41
32:BI:74:ASN:N	32:BI:74:ASN:ND2	2.44	0.41
35:BO:26:LYS:HB2	35:BO:30:ALA:CB	2.50	0.41
35:BO:103:ALA:O	35:BO:105:GLU:N	2.52	0.41
35:BO:104:ARG:HB3	35:BO:104:ARG:NH1	2.35	0.41
38:BR:81:ASP:O	38:BR:82:GLU:HG3	2.20	0.41
40:BT:50:ILE:HG13	40:BT:102:ILE:HD11	2.02	0.41
40:BT:89:VAL:HG21	40:BT:91:ARG:CZ	2.50	0.41
41:BU:92:ARG:NH2	57:BA:996:A:OP2	2.53	0.41
41:BU:92:ARG:NH2	42:BV:10:LYS:HB3	2.34	0.41
45:BY:50:ARG:O	45:BY:50:ARG:HD2	2.20	0.41
45:BY:96:ILE:HD12	45:BY:100:ALA:O	2.19	0.41
46:BZ:77:ASP:OD2	46:BZ:79:ARG:O	2.38	0.41
47:B0:49:LYS:N	47:B0:80:HIS:HD1	2.17	0.41
48:B1:86:SER:HB2	48:B1:89:GLU:CD	2.45	0.41
51:B4:14:ILE:N	51:B4:14:ILE:CD1	2.80	0.41
55:B8:18:ALA:C	55:B8:20:GLY:H	2.28	0.41
55:B8:51:ALA:CA	55:B8:53:PRO:HD2	2.50	0.41
57:BA:128:C:H3'	57:BA:128:C:C6	2.54	0.41
57:BA:221:A:N6	57:BA:265:A:H8	2.17	0.41
57:BA:271(Q):G:O2'	57:BA:271(R):G:P	2.77	0.41
57:BA:425:G:O2'	57:BA:426:C:H5'	2.20	0.41
57:BA:669:G:H2'	57:BA:669:G:N3	2.35	0.41
57:BA:733:G:C8	57:BA:761:A:N6	2.88	0.41
57:BA:774:A:H2	57:BA:787:U:HO2'	1.64	0.41
57:BA:1019:U:H3	57:BA:1142(A):A:N6	2.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1336:A:O2'	57:BA:1337:G:H5'	2.20	0.41
57:BA:1637:A:H4'	57:BA:2711:A:O2'	2.20	0.41
57:BA:1858:G:HO2'	57:BA:1859:A:H8	1.63	0.41
57:BA:2197:U:H1'	57:BA:2198:A:C8	2.55	0.41
57:BA:2318:G:H2'	57:BA:2319:G:OP1	2.19	0.41
57:BA:2821:A:H2'	57:BA:2822:G:O4'	2.19	0.41
1:Ab:39:ILE:HG22	1:Ab:40:HIS:N	2.35	0.41
2:Ac:18:TRP:HE3	2:Ac:18:TRP:N	2.13	0.41
2:Ac:138:VAL:HG13	2:Ac:149:ALA:CB	2.50	0.41
5:Af:8:ILE:CG2	5:Af:9:VAL:N	2.82	0.41
5:Af:62:TRP:CH2	5:Af:64:GLN:HB2	2.56	0.41
6:Ag:22:LEU:HD23	6:Ag:22:LEU:O	2.19	0.41
6:Ag:31:MET:CE	6:Ag:34:GLY:HA2	2.51	0.41
8:Ai:43:ALA:C	8:Ai:45:ALA:N	2.77	0.41
9:Aj:78:ASN:C	9:Aj:80:LYS:H	2.28	0.41
21:Ay:3:TYR:HB3	21:Ay:73:VAL:HG23	2.02	0.41
22:Aa:20:U:H2'	22:Aa:21:G:O4'	2.20	0.41
22:Aa:256:U:H2'	22:Aa:257:G:O4'	2.20	0.41
22:Aa:350:G:O2'	22:Aa:351:G:H5'	2.19	0.41
22:Aa:435:C:O2	22:Aa:435:C:H2'	2.20	0.41
22:Aa:490:G:H2'	22:Aa:491:G:H8	1.85	0.41
22:Aa:975:A:H5'	22:Aa:975:A:C8	2.54	0.41
22:Aa:1276:G:H2'	22:Aa:1277:C:H5'	2.03	0.41
22:Aa:1340:A:N1	22:Aa:1341:U:O2	2.54	0.41
25:Aw:17(A):U:H5'	57:AA:2180:U:O2'	2.19	0.41
25:Aw:62:C:C5'	26:AC:53:ARG:HG3	2.50	0.41
26:AC:225:ILE:HD12	26:AC:225:ILE:O	2.19	0.41
28:AE:134:ILE:HD13	57:AA:2579:C:C1'	2.50	0.41
29:AF:20:LEU:CB	29:AF:23:ASP:OD2	2.69	0.41
29:AF:53:THR:C	29:AF:55:GLY:N	2.76	0.41
30:AG:27:ASN:O	30:AG:30:GLU:HB3	2.19	0.41
32:AI:15:VAL:O	32:AI:17:GLN:N	2.53	0.41
32:AI:101:LEU:O	32:AI:107:VAL:CG2	2.69	0.41
32:AI:127:VAL:HG22	32:AI:139:GLN:CA	2.50	0.41
37:AQ:14:ARG:HG2	37:AQ:14:ARG:NH1	2.35	0.41
38:AR:100:LEU:HD11	38:AR:113:LEU:HB3	2.02	0.41
39:AS:33:LYS:HE2	58:AB:27:C:OP2	2.19	0.41
39:AS:41:ASP:O	39:AS:44:LYS:HB2	2.20	0.41
40:AT:13:ARG:HH22	40:AT:15:VAL:CG2	2.33	0.41
40:AT:24:PRO:HA	40:AT:49:VAL:HG13	2.02	0.41
40:AT:48:ILE:O	40:AT:63:VAL:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:AW:5:ALA:O	57:AA:494:G:O2'	2.36	0.41
43:AW:23:LEU:HD12	43:AW:23:LEU:HA	1.87	0.41
45:AY:2:ARG:O	45:AY:4:LYS:HG2	2.20	0.41
45:AY:7:VAL:HG11	45:AY:8:LYS:HZ1	1.85	0.41
48:A1:3:LYS:HG3	48:A1:4:VAL:N	2.34	0.41
48:A1:57:GLU:O	48:A1:58:ILE:HG12	2.20	0.41
49:A2:42:GLY:O	49:A2:43:GLN:C	2.63	0.41
54:A7:23:ARG:C	54:A7:28:ARG:HH12	2.28	0.41
54:A7:24:THR:HG23	54:A7:27:GLY:N	2.31	0.41
57:AA:271(R):G:O2'	57:AA:271(S):G:H5'	2.19	0.41
57:AA:272:G:H1'	57:AA:272(B):G:O5'	2.19	0.41
57:AA:833:U:H2'	57:AA:834:C:C6	2.55	0.41
57:AA:952:G:C6	57:AA:953:A:N7	2.87	0.41
57:AA:1204:A:H2	57:AA:1241:A:N1	2.18	0.41
57:AA:1210:A:O2'	57:AA:1211:U:OP2	2.38	0.41
57:AA:2307:G:OP1	57:AA:2307:G:H4'	2.20	0.41
57:AA:2516:G:C5	57:AA:2517:C:C4	3.08	0.41
1:Bb:118:LEU:CB	1:Bb:142:LEU:HD12	2.51	0.41
1:Bb:119:GLU:C	1:Bb:121:LEU:H	2.28	0.41
2:Bc:77:ILE:HA	2:Bc:84:ILE:HB	2.02	0.41
2:Bc:92:ALA:HB2	2:Bc:99:VAL:HG22	2.01	0.41
3:Bd:8:VAL:HG23	3:Bd:9:CYS:N	2.35	0.41
4:Be:28:PHE:N	4:Be:28:PHE:HD1	2.17	0.41
4:Be:67:VAL:HG22	4:Be:68:GLU:N	2.35	0.41
6:Bg:68:ASN:O	6:Bg:138:LYS:HE3	2.20	0.41
7:Bh:72:PRO:O	7:Bh:73:ASP:C	2.63	0.41
8:Bi:58:HIS:C	8:Bi:59:PHE:CD1	2.98	0.41
8:Bi:124:GLN:HG3	22:Ba:1342:C:H1'	2.00	0.41
9:Bj:3:LYS:C	9:Bj:100:THR:HG23	2.46	0.41
12:Bm:77:ASN:HD21	22:Ba:1310:G:H5'	1.84	0.41
13:Bn:2:ALA:O	13:Bn:6:LEU:HD12	2.19	0.41
13:Bn:38:GLY:O	13:Bn:39:LEU:HD23	2.20	0.41
13:Bn:54:PRO:C	13:Bn:56:VAL:H	2.28	0.41
14:Bo:66:LEU:O	14:Bo:69:TYR:HB3	2.19	0.41
15:Bp:14:ASN:HA	15:Bp:42:ARG:NH2	2.35	0.41
15:Bp:72:ARG:C	15:Bp:74:LEU:N	2.78	0.41
16:Bq:50:LYS:HG3	16:Bq:51:TYR:CE1	2.55	0.41
18:Bs:6:LYS:CD	18:Bs:6:LYS:N	2.75	0.41
19:Bt:13:LEU:N	19:Bt:13:LEU:CD1	2.83	0.41
21:By:8:ASP:CB	21:By:76:ILE:HG22	2.38	0.41
22:Ba:143:A:H2	22:Ba:220:G:H1	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:166:G:H2'	22:Ba:167:G:C8	2.55	0.41
22:Ba:229:U:O2'	22:Ba:230:G:H5'	2.21	0.41
22:Ba:262:A:C6	22:Ba:263:A:C6	3.07	0.41
22:Ba:342:C:O2'	22:Ba:343:U:H5'	2.19	0.41
22:Ba:364:A:H2'	22:Ba:365:U:O2	2.20	0.41
22:Ba:394:G:H2'	22:Ba:395:C:H6	1.84	0.41
22:Ba:778:G:O2'	22:Ba:779:C:H5'	2.20	0.41
22:Ba:986:A:H2'	22:Ba:987:G:H8	1.85	0.41
26:BC:28:ARG:HH11	26:BC:28:ARG:HG3	1.85	0.41
26:BC:211:ARG:HG3	26:BC:211:ARG:HH11	1.85	0.41
27:BD:121:PRO:HA	27:BD:135:PHE:HD1	1.84	0.41
27:BD:206:LEU:HA	27:BD:211:ARG:NH1	2.35	0.41
28:BE:11:MET:HE1	28:BE:187:ALA:H	1.85	0.41
28:BE:27:LEU:HD12	28:BE:27:LEU:HA	1.90	0.41
28:BE:55:ASN:ND2	28:BE:75:VAL:HG22	2.34	0.41
28:BE:117:MET:O	28:BE:118:LYS:HB2	2.21	0.41
28:BE:133:LYS:C	28:BE:134:ILE:CG2	2.93	0.41
29:BF:21:ALA:O	29:BF:23:ASP:N	2.53	0.41
30:BG:32:PRO:O	30:BG:33:ARG:HG3	2.20	0.41
30:BG:107:LEU:HD21	30:BG:178:PHE:CD2	2.56	0.41
30:BG:143:GLU:N	30:BG:143:GLU:CD	2.79	0.41
32:BI:15:VAL:O	32:BI:17:GLN:N	2.53	0.41
33:BJ:118:THR:O	33:BJ:119:ALA:CB	2.67	0.41
34:BN:31:ALA:O	34:BN:34:LEU:HB2	2.20	0.41
34:BN:46:VAL:HG13	34:BN:47:ALA:N	2.35	0.41
36:BP:15:ARG:HD2	57:BA:597:U:O2'	2.20	0.41
36:BP:27:HIS:CD2	36:BP:27:HIS:C	2.99	0.41
36:BP:42:SER:HB2	36:BP:43:GLY:H	1.70	0.41
37:BQ:18:LYS:HE3	57:BA:862:G:OP1	2.19	0.41
38:BR:77:ARG:O	38:BR:78:LYS:C	2.63	0.41
39:BS:63:THR:HG23	58:BB:50:G:OP1	2.20	0.41
40:BT:38:ASN:HD22	40:BT:40:THR:CB	2.32	0.41
41:BU:8:VAL:O	41:BU:10:ARG:N	2.54	0.41
41:BU:25:TRP:CD1	41:BU:25:TRP:C	2.98	0.41
41:BU:112:ARG:CZ	42:BV:46:VAL:HG11	2.50	0.41
42:BV:15:GLU:HB3	42:BV:16:PRO:CD	2.46	0.41
43:BW:15:ARG:NH1	57:BA:1266:G:C8	2.88	0.41
43:BW:79:GLY:O	43:BW:100:THR:HG22	2.20	0.41
45:BY:45:VAL:HA	45:BY:62:GLU:HB2	2.03	0.41
48:B1:46:LEU:O	48:B1:46:LEU:CD2	2.67	0.41
51:B4:25:TYR:CD1	51:B4:25:TYR:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:53:PRO:HA	55:B8:56:GLU:OE1	2.20	0.41
57:BA:128:C:C6	57:BA:128:C:C3'	3.03	0.41
57:BA:412:A:N7	57:BA:2411:A:H2	2.17	0.41
57:BA:680:G:H2'	57:BA:681:G:C8	2.56	0.41
57:BA:821:A:H5"	57:BA:822:U:H6	1.83	0.41
57:BA:1278:A:H2'	57:BA:1279:G:C8	2.55	0.41
57:BA:1322:A:C5	57:BA:1323:U:C4	3.08	0.41
57:BA:1812:A:H2'	57:BA:1813:G:H8	1.85	0.41
57:BA:2283:C:H2'	57:BA:2284:C:H5'	2.02	0.41
57:BA:2327:A:H2'	57:BA:2328:A:H8	1.75	0.41
57:BA:2408:U:H2'	57:BA:2409:G:H8	1.80	0.41
57:BA:2415:G:C5	57:BA:2416:C:C4	3.07	0.41
57:BA:2752:C:H5'	57:BA:2753:A:OP2	2.19	0.41
58:BB:79:C:O2'	58:BB:80:U:H5'	2.21	0.41
58:BB:87:G:H1	58:BB:91:C:N4	2.17	0.41
1:Ab:17:PHE:CG	1:Ab:44:LEU:HD11	2.55	0.41
1:Ab:118:LEU:CB	1:Ab:142:LEU:HD12	2.50	0.41
1:Ab:187:LEU:HA	1:Ab:201:ILE:O	2.20	0.41
2:Ac:34:LEU:O	2:Ac:34:LEU:HD23	2.20	0.41
2:Ac:35:GLU:C	2:Ac:37:GLN:N	2.77	0.41
3:Ad:12:CYS:HA	3:Ad:19:LEU:HD12	2.02	0.41
3:Ad:127:THR:OG1	3:Ad:128:VAL:N	2.53	0.41
3:Ad:132:ARG:C	3:Ad:132:ARG:HD2	2.45	0.41
6:Ag:36:LYS:O	6:Ag:36:LYS:HG2	2.20	0.41
9:Aj:51:ARG:NE	9:Aj:61:GLU:HB2	2.35	0.41
10:Ak:126:ARG:HH11	10:Ak:126:ARG:CB	2.29	0.41
12:Am:28:ALA:O	12:Am:30:ALA:N	2.54	0.41
21:Ay:39:ILE:O	21:Ay:40:GLU:HB3	2.20	0.41
22:Aa:560:U:H4'	22:Aa:561:U:H5"	2.01	0.41
22:Aa:1032:G:H2'	22:Aa:1033:G:C8	2.55	0.41
22:Aa:1053:G:C4'	22:Aa:1054:C:H5'	2.50	0.41
22:Aa:1104:G:H2'	22:Aa:1105:A:C8	2.54	0.41
22:Aa:1278:U:H5"	22:Aa:1279:A:C8	2.56	0.41
22:Aa:1411:C:H2'	22:Aa:1412:C:C6	2.55	0.41
24:Av:41:C:C2	24:Av:42:G:C8	3.08	0.41
26:AC:178:LYS:C	26:AC:180:SER:H	2.28	0.41
26:AC:211:ARG:HG3	26:AC:211:ARG:HH11	1.84	0.41
27:AD:52:ARG:HD3	57:AA:1824:G:OP1	2.20	0.41
29:AF:114:VAL:O	29:AF:118:ALA:N	2.52	0.41
30:AG:15:VAL:HG13	30:AG:175:LEU:HB2	2.02	0.41
31:AH:50:VAL:CG1	31:AH:51:ARG:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AI:25:TYR:O	32:AI:29:TYR:HB3	2.20	0.41
32:AI:139:GLN:HE21	32:AI:139:GLN:HB2	1.51	0.41
33:AJ:22:GLY:O	33:AJ:88:ALA:HA	2.20	0.41
34:AN:80:GLY:C	34:AN:82:LEU:H	2.28	0.41
35:AO:26:LYS:HB2	35:AO:30:ALA:CB	2.50	0.41
35:AO:31:LYS:HB3	35:AO:32:TYR:CE1	2.55	0.41
35:AO:102:VAL:HG22	35:AO:121:VAL:HG22	2.02	0.41
36:AP:18:ARG:HD2	57:AA:661:C:O3'	2.20	0.41
36:AP:46:LYS:HB3	36:AP:52:GLU:HG2	2.02	0.41
36:AP:62:LEU:HD23	36:AP:63:PRO:C	2.44	0.41
36:AP:63:PRO:HB3	55:A8:13:ARG:CB	2.43	0.41
36:AP:105:LEU:H	36:AP:105:LEU:CD1	2.26	0.41
39:AS:58:LEU:HD21	39:AS:68:GLN:OE1	2.20	0.41
40:AT:3:ARG:C	40:AT:5:ALA:H	2.24	0.41
40:AT:28:VAL:O	40:AT:28:VAL:HG12	2.20	0.41
40:AT:87:ASP:OD1	40:AT:90:GLN:HG3	2.20	0.41
41:AU:25:TRP:CD1	41:AU:25:TRP:C	2.98	0.41
44:AX:12:VAL:O	44:AX:13:LEU:HB2	2.19	0.41
44:AX:29:TRP:CZ3	44:AX:59:VAL:HG21	2.55	0.41
45:AY:49:VAL:HG13	57:AA:484:C:P	2.60	0.41
46:AZ:11:GLU:CD	46:AZ:11:GLU:H	2.28	0.41
46:AZ:104:PHE:CD1	46:AZ:104:PHE:N	2.87	0.41
49:A2:47:ASN:ND2	57:AA:94(A):G:C2	2.88	0.41
51:A4:31:ILE:HG22	51:A4:33:VAL:HG23	2.01	0.41
57:AA:185:U:H2'	57:AA:186:G:H8	1.84	0.41
57:AA:436:C:H2'	57:AA:437:G:H8	1.85	0.41
57:AA:716:A:H3'	57:AA:717:G:H5"	2.02	0.41
57:AA:991:C:H5'	57:AA:991:C:C6	2.48	0.41
57:AA:1048:A:N6	57:AA:1106:A:N6	2.69	0.41
57:AA:1496:A:H8	57:AA:1577:C:O2'	2.01	0.41
57:AA:1529:G:N1	57:AA:1541:G:N2	2.68	0.41
57:AA:1679:U:C2'	57:AA:1680:U:H5'	2.50	0.41
57:AA:1685:C:H2'	57:AA:1686:C:H6	1.85	0.41
57:AA:2055:C:H5'	57:AA:2056:G:O5'	2.20	0.41
57:AA:2064:C:H2'	57:AA:2065:C:C6	2.56	0.41
2:Bc:199:LYS:NZ	22:Ba:1059:C:P	2.93	0.41
4:Be:10:MET:HE3	4:Be:13:ILE:HD11	2.01	0.41
6:Bg:154:TYR:O	6:Bg:155:ARG:C	2.62	0.41
7:Bh:65:TYR:N	7:Bh:65:TYR:HD1	2.18	0.41
9:Bj:76:ASN:HA	9:Bj:77:PRO:HD2	1.98	0.41
10:Bk:96:ARG:C	10:Bk:98:LEU:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:Bl:92:ASP:HB2	22:Ba:523:A:H61	1.86	0.41
12:Bm:4:ILE:HG13	12:Bm:4:ILE:H	1.74	0.41
12:Bm:51:ALA:O	12:Bm:55:ARG:CB	2.69	0.41
13:Bn:36:PHE:C	13:Bn:36:PHE:CD1	2.98	0.41
14:Bo:27:VAL:C	14:Bo:29:VAL:N	2.76	0.41
15:Bp:38:TYR:O	15:Bp:39:TYR:HB2	2.20	0.41
15:Bp:57:ARG:O	15:Bp:60:LEU:HB2	2.20	0.41
18:Bs:78:ARG:HH11	18:Bs:78:ARG:HG3	1.86	0.41
21:By:43:LYS:HG2	21:By:44:LEU:N	2.35	0.41
22:Ba:401:C:H2'	22:Ba:402:G:C8	2.56	0.41
22:Ba:436:C:O2'	22:Ba:437:U:P	2.78	0.41
22:Ba:504:C:H1'	22:Ba:510:A:C4	2.55	0.41
22:Ba:998:G:H2'	22:Ba:999:C:C6	2.56	0.41
22:Ba:1075:C:H4'	22:Ba:1101:A:N6	2.36	0.41
24:Bv:41:C:O2'	24:Bv:42:G:H5'	2.20	0.41
25:Bw:6:G:N2	25:Bw:68:C:C4	2.88	0.41
26:BC:22:THR:H	26:BC:25:GLU:CG	2.33	0.41
27:BD:186:HIS:HD2	27:BD:188:GLU:H	1.67	0.41
27:BD:263:ARG:HH11	27:BD:263:ARG:CB	2.34	0.41
29:BF:153:SER:OG	29:BF:190:GLU:HG3	2.20	0.41
30:BG:32:PRO:HB3	30:BG:163:ALA:HB2	2.02	0.41
30:BG:67:LYS:HE3	30:BG:67:LYS:HB2	1.87	0.41
32:BI:15:VAL:C	32:BI:17:GLN:H	2.28	0.41
32:BI:26:ALA:O	32:BI:31:LEU:HD13	2.20	0.41
32:BI:111:PRO:HB2	32:BI:112:LYS:CE	2.50	0.41
34:BN:15:LEU:C	34:BN:15:LEU:CD1	2.93	0.41
34:BN:66:LYS:HZ3	57:BA:1140:C:P	2.42	0.41
34:BN:66:LYS:HZ1	57:BA:1140:C:H5"	1.77	0.41
34:BN:73:THR:CG2	34:BN:82:LEU:CD1	2.97	0.41
35:BO:8:LEU:HD22	35:BO:8:LEU:N	2.34	0.41
35:BO:65:THR:HA	35:BO:82:ASN:HD22	1.85	0.41
36:BP:39:LYS:CG	57:BA:807:U:OP2	2.68	0.41
38:BR:117:VAL:CG1	38:BR:118:GLU:N	2.80	0.41
40:BT:12:SER:O	40:BT:13:ARG:CZ	2.68	0.41
42:BV:49:THR:CB	42:BV:50:PRO:CD	2.97	0.41
43:BW:56:ALA:O	43:BW:60:ASN:HB2	2.20	0.41
44:BX:30:VAL:HG11	44:BX:39:ILE:HD12	2.01	0.41
44:BX:47:PHE:O	44:BX:49:VAL:HG13	2.20	0.41
52:B5:29:THR:CG2	57:BA:2814:C:O2'	2.68	0.41
52:B5:47:PRO:O	52:B5:49:CYS:N	2.53	0.41
53:B6:25:LYS:NZ	55:B8:34:TRP:HZ2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:4:MET:HE2	57:BA:593:G:C4'	2.51	0.41
55:B8:22:VAL:CG2	55:B8:53:PRO:HB2	2.51	0.41
57:BA:64:A:H2'	57:BA:65:C:H6	1.85	0.41
57:BA:333:G:C4	57:BA:334:C:C5	3.08	0.41
57:BA:622:G:C2'	57:BA:623:G:H5'	2.51	0.41
57:BA:2602:A:H4'	57:BA:2603:G:C5'	2.49	0.41
57:BA:2657:A:C2'	57:BA:2658:C:H5'	2.50	0.41
1:Ab:12:GLU:O	1:Ab:14:GLY:N	2.53	0.41
2:Ac:58:GLU:O	2:Ac:59:ARG:HG3	2.21	0.41
6:Ag:9:VAL:O	6:Ag:10:ARG:C	2.63	0.41
7:Ah:86:ILE:HG12	7:Ah:135:CYS:HA	2.01	0.41
8:Ai:38:GLN:O	8:Ai:38:GLN:OE1	2.39	0.41
10:Ak:24:SER:O	10:Ak:25:TYR:C	2.63	0.41
11:Al:113:ARG:HG3	11:Al:114:LYS:H	1.85	0.41
12:Am:66:LEU:HD23	12:Am:66:LEU:HA	1.83	0.41
13:An:54:PRO:C	13:An:56:VAL:H	2.28	0.41
14:Ao:8:LYS:HG2	14:Ao:12:ILE:HD11	2.02	0.41
15:Ap:48:TRP:O	15:Ap:49:LEU:HB2	2.19	0.41
16:Aq:66:SER:HA	22:Aa:265:G:O3'	2.21	0.41
18:As:5:LEU:HG	18:As:10:PHE:HD1	1.79	0.41
20:Au:6:ARG:NH1	20:Au:15:ARG:NH2	2.68	0.41
22:Aa:229:U:H2'	22:Aa:230:G:C8	2.56	0.41
22:Aa:232:G:H1'	22:Aa:262:A:N1	2.35	0.41
22:Aa:438:G:C4'	22:Aa:439:A:OP1	2.63	0.41
22:Aa:501:C:O2'	22:Aa:502:G:H5'	2.20	0.41
22:Aa:707:C:O2'	22:Aa:708:C:H5'	2.21	0.41
22:Aa:828:A:H5"	22:Aa:859:A:N1	2.34	0.41
22:Aa:837:G:C2	22:Aa:850:U:O2	2.73	0.41
22:Aa:1005:A:C6	22:Aa:1025:U:H1'	2.55	0.41
22:Aa:1122:U:H2'	22:Aa:1123:A:C8	2.55	0.41
22:Aa:1228:C:C5	22:Aa:1229:A:N7	2.88	0.41
25:Aw:73:A:O2'	48:A1:23:LYS:HE2	2.20	0.41
27:AD:73:VAL:C	27:AD:75:ILE:H	2.28	0.41
29:AF:18:ARG:CZ	29:AF:199:TRP:CE3	3.04	0.41
29:AF:133:ASN:O	29:AF:134:GLY:C	2.63	0.41
30:AG:11:TYR:HA	30:AG:15:VAL:CG2	2.49	0.41
30:AG:30:GLU:N	30:AG:33:ARG:HH12	2.18	0.41
31:AH:19:VAL:HG12	31:AH:20:ALA:N	2.34	0.41
32:AI:29:TYR:HE1	32:AI:33:ARG:HE	1.64	0.41
32:AI:110:ASP:OD2	32:AI:113:ARG:O	2.38	0.41
34:AN:10:GLU:CD	34:AN:11:PRO:HD2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AP:95:VAL:HG13	36:AP:123:LEU:HD13	2.02	0.41
39:AS:85:VAL:HG23	39:AS:86:ALA:N	2.35	0.41
43:AW:24:ILE:HD13	43:AW:36:LEU:HD11	2.01	0.41
46:AZ:14:LYS:C	46:AZ:16:SER:N	2.78	0.41
46:AZ:94:GLU:HB2	46:AZ:95:PRO:CD	2.48	0.41
47:A0:40:GLN:HE21	47:A0:57:PHE:HB3	1.85	0.41
51:A4:2:LYS:CB	58:AB:40:U:O4	2.68	0.41
53:A6:8:LYS:HZ1	57:AA:2285:C:H5	1.60	0.41
57:AA:271(Q):G:O2'	57:AA:271(R):G:H8	2.03	0.41
57:AA:657:U:H2'	57:AA:658:C:C5	2.55	0.41
57:AA:979:G:H3'	57:AA:980:A:H5"	2.02	0.41
57:AA:1531:C:O2'	57:AA:1532:C:H5'	2.20	0.41
57:AA:1538:G:H2'	57:AA:1539:G:C8	2.54	0.41
57:AA:2870:C:C2'	57:AA:2871:C:H5'	2.50	0.41
58:AB:104:U:O2'	58:AB:105:A:H5'	2.21	0.41
1:Bb:28:PHE:O	1:Bb:28:PHE:HD1	2.03	0.41
2:Bc:50:ALA:HB1	2:Bc:70:VAL:HG11	2.02	0.41
2:Bc:68:VAL:O	2:Bc:68:VAL:HG12	2.20	0.41
3:Bd:129:ASN:HD21	3:Bd:145:GLU:N	2.17	0.41
4:Be:36:ASP:OD1	4:Be:37:ARG:N	2.40	0.41
4:Be:109:ILE:HG22	4:Be:110:LEU:N	2.35	0.41
8:Bi:48:GLU:C	8:Bi:50:LEU:N	2.77	0.41
9:Bj:5:ARG:CG	9:Bj:71:LEU:HD11	2.50	0.41
9:Bj:45:ARG:HG3	22:Ba:1254:C:OP1	2.20	0.41
10:Bk:15:ALA:HA	10:Bk:77:MET:HA	2.02	0.41
10:Bk:51:LYS:C	10:Bk:55:LYS:HG3	2.45	0.41
10:Bk:126:ARG:C	10:Bk:128:ALA:H	2.26	0.41
11:Bl:84:LEU:HD13	11:Bl:104:VAL:HG11	2.02	0.41
12:Bm:96:LEU:CB	12:Bm:97:PRO:HD2	2.33	0.41
14:Bo:83:GLU:C	14:Bo:85:LEU:N	2.78	0.41
19:Bt:75:ASN:O	19:Bt:79:ARG:HB2	2.19	0.41
22:Ba:223:U:O2'	22:Ba:224:C:H5'	2.21	0.41
22:Ba:231:G:O2'	22:Ba:232:G:H5'	2.20	0.41
22:Ba:570:G:H2'	22:Ba:571:U:C6	2.56	0.41
22:Ba:792:A:N3	22:Ba:794:A:C5	2.89	0.41
22:Ba:1005:A:C6	22:Ba:1025:U:H1'	2.56	0.41
22:Ba:1141:C:H2'	22:Ba:1142:G:N7	2.35	0.41
22:Ba:1313:U:H2'	22:Ba:1314:C:H6	1.86	0.41
22:Ba:1387:G:H2'	22:Ba:1388:C:C6	2.55	0.41
26:BC:54:ARG:HB3	26:BC:57:GLN:HB2	2.02	0.41
27:BD:155:LEU:HD12	27:BD:155:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:52:LEU:HD12	28:BE:52:LEU:HA	1.84	0.41
29:BF:40:GLN:NE2	29:BF:184:TYR:HB3	2.36	0.41
30:BG:58:GLN:NE2	30:BG:59:GLU:HG3	2.35	0.41
30:BG:109:VAL:C	30:BG:112:PRO:HD2	2.46	0.41
31:BH:38:SER:HB3	31:BH:64:LEU:HD13	2.02	0.41
31:BH:83:TYR:N	31:BH:83:TYR:CD2	2.87	0.41
31:BH:137:ASP:HB3	31:BH:140:LYS:HB2	2.02	0.41
32:BI:9:LEU:HB2	32:BI:12:LEU:O	2.21	0.41
32:BI:120:ILE:O	32:BI:121:LYS:C	2.62	0.41
33:BJ:50:ARG:O	33:BJ:51:LEU:CB	2.68	0.41
36:BP:90:ARG:HD2	36:BP:91:PHE:HD1	1.85	0.41
36:BP:97:PRO:HG3	36:BP:112:LEU:HG	2.01	0.41
36:BP:146:VAL:O	36:BP:148:LEU:N	2.54	0.41
39:BS:54:LEU:HD22	39:BS:54:LEU:HA	1.96	0.41
40:BT:10:VAL:O	40:BT:11:GLU:C	2.63	0.41
41:BU:54:LYS:HE3	57:BA:994:C:C6	2.56	0.41
42:BV:2:PHE:HB3	42:BV:3:ALA:H	1.71	0.41
43:BW:3:ALA:HB2	43:BW:58:ALA:HA	2.01	0.41
45:BY:89:PHE:O	45:BY:90:LEU:HB3	2.20	0.41
47:B0:20:ARG:NH1	57:BA:2271:G:C5'	2.83	0.41
47:B0:51:VAL:HG21	47:B0:80:HIS:HA	2.01	0.41
57:BA:31:C:O2'	57:BA:32:C:H5'	2.21	0.41
57:BA:570:G:H2'	57:BA:2030:A:C6	2.56	0.41
57:BA:673:C:H5'	57:BA:673:C:C6	2.36	0.41
57:BA:898:C:C2'	57:BA:899:A:H5'	2.50	0.41
57:BA:923:C:O5'	57:BA:923:C:H6	2.04	0.41
57:BA:1400:G:H2'	57:BA:1401:G:C8	2.56	0.41
57:BA:2370:G:H2'	57:BA:2371:G:O4'	2.20	0.41
57:BA:2436:G:C6	57:BA:2437:U:C4	3.09	0.41
57:BA:2510:C:O2'	57:BA:2511:U:H5'	2.20	0.41
57:BA:2745:C:H2'	57:BA:2746:U:C6	2.56	0.41
1:Ab:54:THR:O	1:Ab:58:ILE:HG13	2.21	0.41
2:Ac:43:LEU:HD21	2:Ac:91:LEU:CD2	2.47	0.41
3:Ad:98:GLU:HG3	3:Ad:103:ASN:HD21	1.84	0.41
3:Ad:173:TRP:O	3:Ad:174:LEU:HD23	2.20	0.41
4:Ae:103:GLY:O	4:Ae:104:ALA:C	2.62	0.41
5:Af:11:ASN:O	5:Af:14:LEU:HG	2.21	0.41
7:Ah:6:ILE:O	7:Ah:8:ASP:N	2.53	0.41
8:Ai:113:LYS:HD2	8:Ai:113:LYS:N	2.35	0.41
9:Aj:36:GLY:HA3	22:Aa:1123:A:C5'	2.50	0.41
9:Aj:77:PRO:HB2	9:Aj:82:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Aj:84:GLN:O	9:Aj:88:LEU:CB	2.67	0.41
11:Al:54:LYS:N	11:Al:54:LYS:HD2	2.34	0.41
11:Al:115:LYS:CG	22:Aa:538:G:OP2	2.69	0.41
11:Al:117:ARG:HB3	11:Al:122:THR:HB	2.01	0.41
13:An:9:LYS:HG3	13:An:12:ARG:NH2	2.35	0.41
13:An:15:LYS:C	13:An:16:PHE:CD2	2.99	0.41
17:Ar:67:ALA:C	17:Ar:69:THR:H	2.29	0.41
22:Aa:514:C:O2'	22:Aa:515:G:H5'	2.21	0.41
22:Aa:1077:G:C2	22:Aa:1081:G:C6	3.09	0.41
22:Aa:1090:U:O2'	22:Aa:1091:U:H5'	2.21	0.41
26:AC:30:VAL:HG11	26:AC:42:VAL:HG13	2.02	0.41
27:AD:6:PHE:CD1	27:AD:6:PHE:N	2.89	0.41
28:AE:137:HIS:HB3	28:AE:138:PRO:HD2	2.02	0.41
29:AF:9:ILE:HA	29:AF:13:SER:O	2.20	0.41
29:AF:84:VAL:O	57:AA:449:A:OP1	2.39	0.41
29:AF:135:LYS:HB3	29:AF:138:GLU:HG3	2.02	0.41
30:AG:101:ILE:HD13	51:A4:9:LEU:HD11	2.03	0.41
30:AG:117:PHE:CE2	30:AG:119:GLY:N	2.88	0.41
31:AH:38:SER:HB3	31:AH:64:LEU:HD13	2.02	0.41
31:AH:56:SER:CB	31:AH:58:GLU:HG3	2.50	0.41
32:AI:6:LEU:C	32:AI:15:VAL:HG12	2.45	0.41
33:AJ:42:GLN:O	33:AJ:43:ALA:HB2	2.20	0.41
35:AO:107:ARG:NH1	40:AT:35:LYS:HD2	2.36	0.41
36:AP:7:ARG:C	36:AP:9:ASN:N	2.79	0.41
36:AP:61:ARG:HH11	55:A8:13:ARG:HD2	1.78	0.41
37:AQ:46:GLN:HE22	37:AQ:126:PRO:HB3	1.86	0.41
38:AR:28:LEU:CD2	38:AR:114:VAL:HG12	2.51	0.41
39:AS:59:LYS:CG	39:AS:60:GLY:N	2.82	0.41
48:A1:52:ARG:HA	48:A1:52:ARG:HD3	1.76	0.41
48:A1:64:ALA:O	48:A1:67:ILE:HG13	2.20	0.41
48:A1:87:PRO:HA	48:A1:90:ILE:CG1	2.50	0.41
49:A2:3:LEU:HD22	49:A2:7:ARG:CZ	2.50	0.41
51:A4:27:THR:O	51:A4:28:LYS:HB3	2.19	0.41
52:A5:40:LYS:NZ	52:A5:46:CYS:O	2.52	0.41
53:A6:37:ARG:O	53:A6:48:VAL:O	2.39	0.41
57:AA:67:U:O2'	57:AA:68:G:H5'	2.21	0.41
57:AA:383:U:H2'	57:AA:385:C:H5	1.85	0.41
57:AA:485:C:O2'	57:AA:486:C:H5'	2.21	0.41
57:AA:848:G:H2'	57:AA:849:A:H8	1.83	0.41
57:AA:909:A:H2'	57:AA:912:C:H5	1.85	0.41
57:AA:1501:C:H5'	57:AA:1502:C:P	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:AA:1502:C:O2	57:AA:1502:C:C2'	2.68	0.41
57:AA:1528(A):A:H8	57:AA:1529:G:C8	2.39	0.41
57:AA:2077:A:C4	57:AA:2078:C:C5	3.08	0.41
57:AA:2189:U:H3'	57:AA:2190:G:C5'	2.43	0.41
57:AA:2389:G:H5"	57:AA:2390:U:O4'	2.20	0.41
57:AA:2666:C:H3'	57:AA:2667:C:H6	1.85	0.41
57:AA:2729:G:H2'	57:AA:2730:C:C6	2.55	0.41
57:AA:2784:C:O5'	57:AA:2784:C:H6	2.03	0.41
57:AA:2892:A:C8	57:AA:2893:G:H1'	2.55	0.41
1:Bb:25:ASN:OD1	1:Bb:27:LYS:HG3	2.20	0.41
1:Bb:28:PHE:O	1:Bb:28:PHE:CD1	2.74	0.41
1:Bb:55:PHE:O	1:Bb:56:ARG:C	2.64	0.41
1:Bb:119:GLU:HB2	1:Bb:153:ARG:HH22	1.84	0.41
3:Bd:17:VAL:CG1	3:Bd:18:LYS:H	2.33	0.41
3:Bd:36:ARG:C	3:Bd:38:TYR:H	2.28	0.41
3:Bd:86:LYS:NZ	22:Ba:5:U:C4	2.83	0.41
4:Be:139:LEU:C	4:Be:141:GLN:H	2.27	0.41
6:Bg:92:SER:O	6:Bg:96:GLN:HG3	2.19	0.41
6:Bg:148:ASN:C	6:Bg:150:ALA:H	2.29	0.41
8:Bi:38:GLN:O	8:Bi:38:GLN:OE1	2.39	0.41
9:Bj:49:VAL:HG22	9:Bj:50:ILE:N	2.34	0.41
10:Bk:44:SER:H	10:Bk:47:VAL:HG23	1.84	0.41
11:Bl:32:PHE:HB2	11:Bl:84:LEU:HD21	2.02	0.41
15:Bp:48:TRP:O	15:Bp:49:LEU:HB2	2.20	0.41
18:Bs:64:GLU:O	18:Bs:66:MET:N	2.53	0.41
22:Ba:102:G:C4	22:Ba:103:C:C5	3.09	0.41
22:Ba:127:G:C2	22:Ba:128:G:C8	3.08	0.41
22:Ba:149:A:C2	22:Ba:150:C:C4	3.08	0.41
22:Ba:255:G:H2'	22:Ba:256:U:H6	1.86	0.41
22:Ba:702:A:H3'	22:Ba:703:G:C5'	2.51	0.41
22:Ba:790:A:OP1	24:Bv:38:A:O2'	2.34	0.41
22:Ba:924:C:O2'	22:Ba:925:G:H5'	2.20	0.41
22:Ba:967:C:H2'	22:Ba:968:A:N7	2.34	0.41
22:Ba:994:A:N6	22:Ba:1046:A:H2	2.18	0.41
22:Ba:1005:A:N1	22:Ba:1025:U:H1'	2.36	0.41
22:Ba:1033:G:H2'	22:Ba:1034:G:C5'	2.43	0.41
22:Ba:1125:U:C5'	22:Ba:1126:U:H5	2.29	0.41
26:BC:50:ILE:HD12	26:BC:50:ILE:O	2.20	0.41
27:BD:43:ARG:HH11	27:BD:44:ASN:CG	2.28	0.41
27:BD:52:ARG:HD3	57:BA:1824:G:OP1	2.20	0.41
27:BD:245:PRO:O	27:BD:245:PRO:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:27:LEU:HD12	28:BE:180:ASN:O	2.20	0.41
30:BG:6:ALA:HB3	30:BG:104:GLU:OE2	2.21	0.41
30:BG:38:VAL:CG1	30:BG:91:ARG:HD3	2.51	0.41
30:BG:174:GLU:C	30:BG:176:LEU:H	2.28	0.41
31:BH:33:LEU:HD21	31:BH:136:ILE:HG22	2.02	0.41
31:BH:87:LEU:C	31:BH:88:LEU:HD13	2.45	0.41
32:BI:94:ALA:HA	32:BI:98:ALA:CB	2.50	0.41
33:BJ:60:ARG:C	33:BJ:62:ALA:N	2.78	0.41
33:BJ:124:ALA:O	33:BJ:125:LEU:C	2.63	0.41
34:BN:39:ARG:HG2	34:BN:39:ARG:NH1	2.35	0.41
35:BO:102:VAL:HB	35:BO:106:LEU:HD12	2.03	0.41
36:BP:100:LEU:H	36:BP:100:LEU:CD2	2.34	0.41
37:BQ:12:GLN:HE21	37:BQ:73:PRO:HD2	1.85	0.41
37:BQ:19:GLY:O	37:BQ:20:ALA:C	2.63	0.41
37:BQ:21:THR:O	37:BQ:21:THR:CG2	2.69	0.41
40:BT:28:VAL:HA	40:BT:47:GLY:H	1.85	0.41
40:BT:114:LEU:HD23	40:BT:114:LEU:HA	1.82	0.41
42:BV:52:VAL:O	42:BV:53:GLU:C	2.63	0.41
45:BY:55:TYR:O	45:BY:56:PRO:C	2.62	0.41
54:B7:34:ARG:O	54:B7:35:ARG:C	2.62	0.41
55:B8:33:ASN:HA	55:B8:36:LYS:CD	2.50	0.41
57:BA:61:G:H1	57:BA:94:C:N4	2.17	0.41
57:BA:196:A:N3	57:BA:196:A:H2'	2.35	0.41
57:BA:436:C:H2'	57:BA:437:G:C8	2.56	0.41
57:BA:1176:G:O2'	57:BA:1177:A:H5'	2.20	0.41
57:BA:1472:A:H2'	57:BA:1473:G:O4'	2.21	0.41
57:BA:1532:C:H2'	57:BA:1533:G:C5'	2.49	0.41
57:BA:1817:G:H2'	57:BA:1818:U:H5'	2.03	0.41
2:Ac:4:LYS:NZ	22:Aa:1191:A:H5"	2.36	0.41
2:Ac:67:THR:O	2:Ac:69:HIS:CD2	2.73	0.41
2:Ac:77:ILE:HA	2:Ac:84:ILE:HB	2.02	0.41
3:Ad:33:MET:HE3	3:Ad:37:PRO:HB3	2.02	0.41
3:Ad:152:SER:HA	3:Ad:155:LEU:CG	2.51	0.41
6:Ag:28:ASN:O	6:Ag:31:MET:HB3	2.21	0.41
11:Al:7:ILE:HD12	11:Al:7:ILE:HA	1.91	0.41
11:Al:38:THR:CG2	11:Al:39:VAL:N	2.83	0.41
16:Aq:40:LYS:HD3	16:Aq:42:TYR:OH	2.20	0.41
18:As:27:GLU:HB3	18:As:28:LYS:H	1.66	0.41
20:Au:3:LYS:HB3	20:Au:14:TRP:CG	2.55	0.41
21:Ay:4:PHE:O	21:Ay:73:VAL:HG23	2.20	0.41
22:Aa:444:C:H2'	22:Aa:445:G:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:504:C:H1'	22:Aa:510:A:C4	2.56	0.41
22:Aa:1423:G:H5'	35:AO:49:ARG:HH21	1.79	0.41
27:AD:34:VAL:CG2	27:AD:35:LYS:H	2.14	0.41
27:AD:244:ARG:HG3	57:AA:1902:C:C1'	2.49	0.41
29:AF:37:VAL:HG13	29:AF:184:TYR:CD1	2.55	0.41
29:AF:40:GLN:O	29:AF:44:ARG:HB3	2.21	0.41
32:AI:22:LYS:HD2	57:AA:2094:G:OP1	2.20	0.41
32:AI:101:LEU:HB3	32:AI:109:ILE:CD1	2.49	0.41
32:AI:119:PRO:O	32:AI:121:LYS:N	2.53	0.41
34:AN:31:ALA:O	34:AN:34:LEU:HB2	2.21	0.41
34:AN:91:LEU:CD2	34:AN:98:VAL:HG21	2.49	0.41
36:AP:6:LEU:HG	36:AP:9:ASN:CG	2.46	0.41
36:AP:23:PRO:CD	36:AP:33:ARG:NH2	2.82	0.41
36:AP:59:LEU:C	36:AP:61:ARG:HD2	2.46	0.41
36:AP:66:GLY:O	36:AP:67:MET:CB	2.68	0.41
38:AR:8:ARG:HD3	38:AR:8:ARG:HA	1.77	0.41
40:AT:11:GLU:CD	40:AT:11:GLU:H	2.28	0.41
40:AT:30:VAL:CG1	40:AT:84:GLN:CG	2.99	0.41
45:AY:7:VAL:CB	45:AY:8:LYS:HZ2	2.32	0.41
45:AY:55:TYR:N	45:AY:56:PRO:CD	2.84	0.41
46:AZ:97:GLU:HB3	46:AZ:125:LEU:HD11	2.02	0.41
46:AZ:157:LEU:O	46:AZ:158:PRO:C	2.63	0.41
50:A3:3:ARG:HB2	50:A3:59:VAL:O	2.20	0.41
57:AA:78:A:H2'	57:AA:79:G:C8	2.55	0.41
57:AA:271(O):C:HO2'	57:AA:271(P):C:H6	1.55	0.41
57:AA:528:A:C2	57:AA:2043:C:H5'	2.55	0.41
57:AA:898:C:H2'	57:AA:899:A:O4'	2.20	0.41
57:AA:1409:C:O2'	57:AA:1410:G:H5'	2.20	0.41
57:AA:1542:A:C6	57:AA:1544:A:C8	3.08	0.41
57:AA:2246:G:H2'	57:AA:2247:A:C8	2.56	0.41
57:AA:2450:A:C2'	57:AA:2451:A:H5'	2.50	0.41
58:AB:10:C:O5'	58:AB:10:C:H6	2.02	0.41
58:AB:105:A:H2'	58:AB:106:G:H5'	2.02	0.41
1:Bb:144:ARG:CA	1:Bb:147:LYS:HB3	2.42	0.41
1:Bb:222:ILE:HD13	1:Bb:222:ILE:HA	1.96	0.41
5:Bf:12:PRO:HG2	5:Bf:55:ASP:OD1	2.19	0.41
8:Bi:14:VAL:O	8:Bi:65:VAL:HG23	2.20	0.41
9:Bj:82:ILE:CG2	9:Bj:86:MET:SD	3.08	0.41
10:Bk:26:ASN:OD1	10:Bk:26:ASN:O	2.38	0.41
10:Bk:105:VAL:O	10:Bk:107:SER:N	2.53	0.41
11:Bl:38:THR:CG2	11:Bl:39:VAL:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:14:ARG:NH2	12:Bm:16:ASP:OD1	2.54	0.41
12:Bm:70:LEU:C	12:Bm:70:LEU:HD23	2.44	0.41
12:Bm:108:ARG:HG3	12:Bm:114:ARG:HG3	2.02	0.41
14:Bo:41:GLU:O	14:Bo:45:VAL:HG23	2.20	0.41
16:Bq:94:ASN:O	16:Bq:98:LEU:HD13	2.20	0.41
18:Bs:58:VAL:O	18:Bs:58:VAL:CG2	2.68	0.41
22:Ba:321:A:N6	22:Ba:328:C:O2'	2.45	0.41
22:Ba:1276:G:H2'	22:Ba:1277:C:H5'	2.01	0.41
22:Ba:1323:G:O2'	22:Ba:1324:A:H5'	2.20	0.41
24:Bv:48:C:C2	24:Bv:59:A:H1'	2.55	0.41
27:BD:9:TYR:CD2	57:BA:727:A:C2	3.09	0.41
27:BD:183:ARG:HG2	27:BD:183:ARG:NH1	2.34	0.41
28:BE:34:VAL:CG1	28:BE:48:GLN:HE21	2.33	0.41
28:BE:56:PRO:O	28:BE:58:ARG:N	2.54	0.41
28:BE:134:ILE:HD13	57:BA:2579:C:C1'	2.51	0.41
30:BG:51:ARG:NH1	30:BG:53:LEU:HD21	2.36	0.41
30:BG:170:ARG:HG3	30:BG:180:PHE:CE1	2.49	0.41
31:BH:15:VAL:HA	31:BH:27:LYS:O	2.20	0.41
34:BN:5:VAL:HG22	34:BN:6:PRO:O	2.21	0.41
35:BO:66:LYS:HD3	57:BA:1666:G:OP1	2.20	0.41
35:BO:120:GLU:CD	35:BO:122:LEU:HD21	2.45	0.41
36:BP:49:ARG:HD2	55:B8:58:ILE:HG22	2.02	0.41
38:BR:98:LEU:O	38:BR:113:LEU:HD22	2.20	0.41
39:BS:89:ARG:HG3	39:BS:92:TYR:CA	2.50	0.41
39:BS:108:GLY:HA3	57:BA:2376:A:O2'	2.21	0.41
40:BT:87:ASP:OD1	40:BT:90:GLN:HG3	2.21	0.41
42:BV:39:LEU:CD1	42:BV:51:VAL:HA	2.49	0.41
44:BX:7:VAL:CG1	44:BX:39:ILE:HD13	2.51	0.41
44:BX:89:ILE:O	44:BX:90:GLU:C	2.64	0.41
45:BY:3:VAL:N	45:BY:5:MET:HE3	2.34	0.41
46:BZ:112:ARG:C	46:BZ:114:GLY:N	2.77	0.41
48:B1:25:LYS:HB2	57:BA:388:G:OP1	2.20	0.41
48:B1:29:GLY:O	48:B1:30:VAL:HG23	2.20	0.41
49:B2:6:VAL:O	49:B2:7:ARG:C	2.63	0.41
52:B5:55:ARG:O	52:B5:56:LYS:HE3	2.20	0.41
53:B6:46:HIS:HD2	57:BA:2372:G:H4'	1.85	0.41
53:B6:54:ILE:O	53:B6:54:ILE:CD1	2.63	0.41
57:BA:85:G:N3	57:BA:103:A:C2	2.89	0.41
57:BA:99:U:C4'	57:BA:102:G:H1'	2.49	0.41
57:BA:878:A:C6	57:BA:900:A:C8	3.09	0.41
57:BA:910:A:H5'	57:BA:911:A:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1447:G:H2'	57:BA:1448:G:H8	1.86	0.41
57:BA:1517:G:O2'	57:BA:1518:U:H5'	2.20	0.41
57:BA:1641:A:H2'	57:BA:1642:G:O4'	2.20	0.41
57:BA:1670:C:C5	57:BA:1671:U:C4	3.08	0.41
57:BA:1906:G:C8	57:BA:1929:G:H2'	2.55	0.41
57:BA:2192:G:H2'	57:BA:2193:G:H5'	2.02	0.41
57:BA:2360:A:C2	57:BA:2361:A:H1'	2.55	0.41
58:BB:31:C:H2'	58:BB:53:A:H61	1.85	0.41
1:Ab:69:LEU:HA	1:Ab:91:PRO:O	2.21	0.41
1:Ab:83:MET:C	1:Ab:85:ALA:N	2.75	0.41
2:Ac:16:ARG:HH11	2:Ac:16:ARG:CB	2.34	0.41
2:Ac:22:TRP:CZ3	2:Ac:32:LEU:HD13	2.55	0.41
3:Ad:52:SER:O	3:Ad:53:ASP:C	2.64	0.41
3:Ad:64:LEU:HB2	3:Ad:198:VAL:HG21	2.02	0.41
4:Ae:10:MET:CB	4:Ae:32:VAL:HG22	2.50	0.41
6:Ag:69:VAL:HG11	6:Ag:104:LEU:CD2	2.50	0.41
6:Ag:125:MET:HE2	6:Ag:125:MET:HB3	1.91	0.41
9:Aj:35:SER:O	9:Aj:36:GLY:C	2.63	0.41
9:Aj:97:GLU:C	9:Aj:98:ILE:HD12	2.45	0.41
11:Al:44:THR:HA	11:Al:45:PRO:HD3	1.78	0.41
12:Am:66:LEU:H	12:Am:70:LEU:CG	2.30	0.41
15:Ap:72:ARG:HH21	15:Ap:73:LEU:CD2	2.31	0.41
16:Aq:51:TYR:CD2	16:Aq:57:VAL:HG11	2.56	0.41
18:As:41:VAL:O	18:As:42:PRO:C	2.63	0.41
19:At:29:LYS:O	19:At:33:ILE:HG13	2.20	0.41
22:Aa:9:G:C2	22:Aa:26:A:N1	2.89	0.41
22:Aa:36:C:C2'	22:Aa:37:U:H5'	2.50	0.41
22:Aa:38:G:H22	22:Aa:397:A:C5'	2.33	0.41
22:Aa:189(L):G:H2'	22:Aa:190:U:C6	2.56	0.41
22:Aa:325:A:H2'	22:Aa:326:G:O4'	2.21	0.41
22:Aa:932:C:H2'	22:Aa:933:G:C8	2.56	0.41
22:Aa:1170:A:H2'	22:Aa:1171:G:H5'	2.02	0.41
22:Aa:1270:C:O2'	22:Aa:1314:C:H5'	2.20	0.41
22:Aa:1300:G:O2'	22:Aa:1301:U:O5'	2.36	0.41
22:Aa:1303:C:O2	22:Aa:1303:C:H2'	2.21	0.41
22:Aa:1508:G:H2'	22:Aa:1509:C:O4'	2.21	0.41
24:Av:69:C:O2'	24:Av:70:G:H5'	2.20	0.41
24:Av:76:A:OP1	24:Av:76:A:H4'	2.20	0.41
27:AD:68:LYS:HD2	27:AD:70:TRP:CZ2	2.56	0.41
27:AD:208:LYS:HE2	57:AA:764:A:OP1	2.20	0.41
28:AE:116:VAL:HG23	28:AE:120:TRP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AF:46:ARG:NH1	29:AF:46:ARG:HG3	2.36	0.41
29:AF:117:ARG:NH2	29:AF:187:VAL:HA	2.35	0.41
30:AG:124:SER:N	30:AG:126:ASP:OD1	2.54	0.41
31:AH:11:VAL:HG21	31:AH:50:VAL:CG2	2.47	0.41
31:AH:89:ILE:CG1	31:AH:129:THR:HA	2.51	0.41
32:AI:120:ILE:HD11	32:AI:126:TYR:CD1	2.50	0.41
32:AI:126:TYR:N	32:AI:140:LEU:HD22	2.35	0.41
34:AN:2:LYS:HZ3	42:AV:13:ARG:H	1.66	0.41
35:AO:61:VAL:HG12	35:AO:85:VAL:HG12	2.02	0.41
36:AP:6:LEU:HG	36:AP:9:ASN:OD1	2.20	0.41
37:AQ:125:LEU:C	37:AQ:127:ILE:H	2.29	0.41
41:AU:33:ARG:C	41:AU:35:ALA:N	2.78	0.41
43:AW:61:ASN:OD1	57:AA:495:G:N3	2.54	0.41
44:AX:47:PHE:O	44:AX:49:VAL:HG13	2.21	0.41
44:AX:83:VAL:O	44:AX:84:ALA:C	2.63	0.41
45:AY:67:LEU:HD11	45:AY:71:LYS:HB2	2.03	0.41
48:A1:23:LYS:O	48:A1:24:ALA:C	2.63	0.41
49:A2:55:ARG:O	49:A2:56:GLN:C	2.62	0.41
50:A3:43:ILE:HD13	50:A3:43:ILE:HA	1.88	0.41
51:A4:2:LYS:HG2	58:AB:40:U:O4	2.20	0.41
53:A6:42:TRP:CH2	57:AA:643:A:N7	2.88	0.41
57:AA:30:G:C6	57:AA:31:C:N3	2.89	0.41
57:AA:579:G:C6	57:AA:580:C:N4	2.89	0.41
57:AA:1605:C:H2'	57:AA:1606:G:O4'	2.20	0.41
57:AA:1635:G:H2'	57:AA:1636:C:C6	2.56	0.41
57:AA:1832:C:N4	57:AA:1833:U:C4	2.89	0.41
57:AA:2062:A:N6	57:AA:2503:A:H62	2.19	0.41
57:AA:2370:G:H2'	57:AA:2371:G:O4'	2.21	0.41
57:AA:2761:G:H2'	57:AA:2762:G:H5"	2.02	0.41
57:AA:2885:C:H2'	57:AA:2886:G:O5'	2.20	0.41
58:AB:37:C:N3	58:AB:49:C:O4'	2.53	0.41
58:AB:87:G:H1	58:AB:91:C:N4	2.19	0.41
1:Bb:12:GLU:O	1:Bb:14:GLY:N	2.54	0.41
1:Bb:137:ARG:HD3	1:Bb:138:LEU:HG	2.03	0.41
2:Bc:141:VAL:O	2:Bc:146:ALA:HB3	2.21	0.41
2:Bc:164:ARG:HB3	2:Bc:165:THR:H	1.59	0.41
4:Be:144:THR:N	4:Be:147:ASP:HB2	2.36	0.41
7:Bh:63:LEU:H	7:Bh:63:LEU:CD2	2.23	0.41
7:Bh:109:ILE:CG2	7:Bh:137:VAL:HB	2.51	0.41
8:Bi:116:LYS:HZ3	8:Bi:122:ALA:HB2	1.84	0.41
9:Bj:57:LYS:HD3	22:Ba:972:C:O3'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:97:PRO:HA	22:Ba:1308:U:OP1	2.20	0.41
16:Bq:6:LEU:O	16:Bq:58:GLU:HA	2.20	0.41
17:Br:72:ARG:O	17:Br:76:LEU:HD23	2.21	0.41
19:Bt:30:LYS:HG3	19:Bt:34:LYS:HE3	2.01	0.41
21:By:67:ILE:HG22	21:By:70:LYS:H	1.85	0.41
22:Ba:105:G:H2'	22:Ba:106:C:H6	1.84	0.41
25:Bw:33:U:O2	25:Bw:36:U:H5	2.04	0.41
27:BD:154:LYS:HE2	57:BA:1801:G:OP2	2.20	0.41
27:BD:262:ARG:HD3	57:BA:2086:U:P	2.60	0.41
28:BE:24:THR:CG2	28:BE:186:GLY:HA2	2.51	0.41
28:BE:126:PRO:O	28:BE:127:ASP:C	2.64	0.41
28:BE:199:ARG:HH11	28:BE:199:ARG:CB	2.33	0.41
29:BF:25:PRO:HB3	29:BF:119:ARG:CD	2.46	0.41
29:BF:81:PRO:HB3	29:BF:89:VAL:HG22	2.01	0.41
30:BG:39:ILE:HD13	30:BG:60:LEU:HD21	2.03	0.41
30:BG:75:LYS:HE3	57:BA:2310:A:N7	2.35	0.41
30:BG:131:TYR:CD2	30:BG:131:TYR:C	2.98	0.41
32:BI:94:ALA:HB2	32:BI:111:PRO:O	2.19	0.41
32:BI:129:THR:HG23	32:BI:137:PRO:HA	2.01	0.41
33:BJ:124:ALA:O	33:BJ:125:LEU:O	2.39	0.41
34:BN:18:ALA:C	34:BN:20:GLY:N	2.78	0.41
36:BP:6:LEU:HG	36:BP:9:ASN:OD1	2.20	0.41
36:BP:78:PRO:HA	36:BP:110:TYR:HE2	1.82	0.41
37:BQ:72:LYS:HA	37:BQ:73:PRO:HD3	1.87	0.41
38:BR:63:ARG:HG3	38:BR:80:PHE:CE2	2.55	0.41
39:BS:30:ARG:NH1	39:BS:34:HIS:O	2.54	0.41
40:BT:25:GLY:O	40:BT:26:ASP:CB	2.68	0.41
42:BV:22:VAL:O	42:BV:23:GLU:HB2	2.20	0.41
43:BW:47:VAL:HA	43:BW:50:VAL:HG12	2.03	0.41
43:BW:86:LEU:HD12	43:BW:87:PRO:CD	2.51	0.41
46:BZ:120:ILE:HB	46:BZ:171:ILE:O	2.20	0.41
46:BZ:152:ALA:C	46:BZ:154:ASP:H	2.27	0.41
51:B4:12:ALA:CA	51:B4:29:PRO:HG3	2.50	0.41
52:B5:26:THR:HA	52:B5:27:PRO:HD3	1.97	0.41
52:B5:54:GLY:O	52:B5:55:ARG:NE	2.53	0.41
56:B9:1:MET:SD	57:BA:2478:A:OP2	2.78	0.41
57:BA:272(J):C:N4	57:BA:363(A):A:H61	2.19	0.41
57:BA:570:G:H2'	57:BA:2030:A:C5	2.55	0.41
57:BA:665:C:O2'	57:BA:666:G:H5'	2.20	0.41
57:BA:1310:G:H2'	57:BA:1311:G:H5'	2.01	0.41
57:BA:1341:U:P	57:BA:1397:U:H3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1685:C:H2'	57:BA:1686:C:H6	1.84	0.41
57:BA:1889:A:H2'	57:BA:1890:A:O4'	2.21	0.41
57:BA:2168:G:H22	57:BA:2170:A:H3'	1.85	0.41
57:BA:2278:A:C2'	57:BA:2279:G:O5'	2.69	0.41
57:BA:2491:U:O2'	57:BA:2492:U:H5'	2.20	0.41
57:BA:2562:U:C2'	57:BA:2563:U:H5'	2.50	0.41
57:BA:2646:C:OP2	57:BA:2732:G:O2'	2.27	0.41
57:BA:2772:C:H2'	57:BA:2773:C:C6	2.55	0.41
58:BB:87:G:H3'	58:BB:88:C:H5"	2.03	0.41
2:Ac:71:ALA:CB	2:Ac:106:VAL:HB	2.50	0.41
2:Ac:102:ASN:HB3	2:Ac:103:VAL:H	1.71	0.41
2:Ac:108:ASN:HB3	2:Ac:111:LEU:HG	2.02	0.41
2:Ac:165:THR:O	2:Ac:165:THR:HG23	2.20	0.41
2:Ac:181:ASN:C	2:Ac:182:ILE:HG13	2.45	0.41
2:Ac:199:LYS:NZ	22:Aa:1059:C:P	2.94	0.41
3:Ad:134:ASP:OD2	3:Ad:134:ASP:N	2.47	0.41
4:Ae:48:ALA:C	4:Ae:50:GLU:H	2.29	0.41
5:Af:8:ILE:HG22	5:Af:9:VAL:N	2.36	0.41
5:Af:15:ASP:OD1	5:Af:18:GLN:N	2.50	0.41
6:Ag:27:ILE:HD13	6:Ag:40:ALA:HB2	2.03	0.41
6:Ag:140:ASP:CA	6:Ag:143:ARG:HH11	2.33	0.41
7:Ah:86:ILE:CB	7:Ah:133:LEU:HD22	2.51	0.41
9:Aj:77:PRO:O	9:Aj:79:ARG:NH1	2.51	0.41
10:Ak:63:LEU:N	10:Ak:63:LEU:HD22	2.36	0.41
11:Al:102:ARG:HA	11:Al:102:ARG:HD2	1.91	0.41
14:Ao:48:LYS:HE3	22:Aa:808:C:OP2	2.20	0.41
17:Ar:53:ARG:C	17:Ar:55:ARG:N	2.79	0.41
17:Ar:53:ARG:HH12	17:Ar:60:ALA:HB2	1.85	0.41
19:At:26:ASN:HA	19:At:29:LYS:HG2	2.02	0.41
21:Ay:44:LEU:H	21:Ay:44:LEU:CD1	2.25	0.41
22:Aa:171:A:H2'	22:Aa:172:A:C8	2.56	0.41
22:Aa:494:U:H6	22:Aa:494:U:O5'	2.03	0.41
22:Aa:502:G:C2	22:Aa:503:C:C2	3.08	0.41
22:Aa:865:A:H5'	22:Aa:1078:U:C4	2.56	0.41
22:Aa:1010:G:H2'	22:Aa:1011:G:C8	2.56	0.41
22:Aa:1206:G:O2'	22:Aa:1207:G:H5'	2.20	0.41
22:Aa:1293:G:O2'	22:Aa:1294:G:P	2.79	0.41
22:Aa:1313:U:H2'	22:Aa:1314:C:H6	1.85	0.41
22:Aa:1490:C:C2'	22:Aa:1491:G:H5"	2.51	0.41
26:AC:182:PRO:HA	26:AC:183:PRO:HD3	1.89	0.41
27:AD:30:GLU:CG	27:AD:63:ARG:CZ	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:52:LEU:HD12	28:AE:52:LEU:HA	1.86	0.41
29:AF:74:ARG:HD3	57:AA:674:G:C1'	2.50	0.41
30:AG:111:LEU:CB	30:AG:112:PRO:CD	2.99	0.41
30:AG:170:ARG:HD2	30:AG:170:ARG:HA	1.80	0.41
31:AH:66:GLY:HA2	31:AH:69:ARG:HD3	2.03	0.41
36:AP:17:LYS:HG3	36:AP:19:VAL:HG22	2.02	0.41
36:AP:64:LYS:HB2	55:A8:25:MET:HG3	1.96	0.41
37:AQ:118:LEU:HD12	37:AQ:131:ILE:CG2	2.51	0.41
38:AR:21:TYR:OH	38:AR:43:GLU:HG2	2.21	0.41
38:AR:34:ILE:HG22	38:AR:35:THR:N	2.35	0.41
39:AS:36:TYR:O	39:AS:37:ALA:HB2	2.20	0.41
40:AT:5:ALA:HB3	57:AA:2875:C:HO2'	1.84	0.41
40:AT:56:GLY:O	40:AT:59:THR:CG2	2.69	0.41
42:AV:39:LEU:HD12	42:AV:50:PRO:O	2.20	0.41
43:AW:34:ASN:O	43:AW:37:ARG:HB3	2.21	0.41
44:AX:89:ILE:O	44:AX:90:GLU:C	2.62	0.41
47:A0:14:ARG:HH11	47:A0:14:ARG:CG	2.33	0.41
47:A0:45:PHE:CE2	47:A0:69:PHE:HE2	2.37	0.41
48:A1:41:ARG:NH1	48:A1:43:TYR:HE2	2.19	0.41
49:A2:47:ASN:C	49:A2:49:LYS:N	2.79	0.41
49:A2:61:LEU:HD12	57:AA:72:U:O4'	2.21	0.41
55:A8:18:ALA:C	55:A8:20:GLY:H	2.29	0.41
57:AA:128:C:C6	57:AA:128:C:C3'	3.04	0.41
57:AA:140:G:N3	57:AA:142:A:N1	2.68	0.41
57:AA:380:U:H2'	57:AA:381:G:C8	2.55	0.41
57:AA:437:G:H2'	57:AA:438:G:H8	1.86	0.41
57:AA:1328:G:H2'	57:AA:1330:C:C4	2.56	0.41
57:AA:1510:G:O2'	57:AA:1511:C:H5'	2.20	0.41
57:AA:1858:G:O2'	57:AA:1884:A:N6	2.54	0.41
57:AA:1906:G:C8	57:AA:1929:G:H2'	2.56	0.41
57:AA:2011:U:H2'	57:AA:2012:G:C5'	2.50	0.41
57:AA:2103:C:H42	57:AA:2186:G:H1	1.67	0.41
57:AA:2150:U:H2'	57:AA:2151:G:H8	1.85	0.41
57:AA:2296:U:O2	57:AA:2333:A:N3	2.54	0.41
57:AA:2360:A:C2	57:AA:2361:A:H1'	2.56	0.41
57:AA:2514:U:H2'	57:AA:2515:C:C6	2.56	0.41
57:AA:2653:U:H2'	57:AA:2654:A:C8	2.55	0.41
57:AA:2668:G:O2'	57:AA:2669:G:H5'	2.21	0.41
57:AA:2778:A:H4'	57:AA:2779:U:OP2	2.21	0.41
57:AA:2791:C:N4	57:AA:2801:A:H8	2.17	0.41
58:AB:17:C:H2'	58:AB:18:G:O4'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:173:VAL:HG12	2:Bc:175:LEU:HD12	2.01	0.41
2:Bc:186:PHE:HD1	2:Bc:198:VAL:O	2.04	0.41
3:Bd:163:GLU:CG	3:Bd:164:ALA:N	2.84	0.41
4:Be:7:GLU:HB2	4:Be:35:GLY:O	2.20	0.41
5:Bf:3:ARG:O	5:Bf:93:SER:HB2	2.20	0.41
6:Bg:28:ASN:O	6:Bg:31:MET:HB3	2.21	0.41
6:Bg:69:VAL:HG12	6:Bg:100:ALA:HA	2.03	0.41
7:Bh:67:PRO:O	7:Bh:68:ARG:C	2.62	0.41
11:Bl:75:HIS:CD2	11:Bl:77:LEU:HB2	2.47	0.41
12:Bm:104:ARG:NH2	22:Ba:953:G:N7	2.68	0.41
17:Br:53:ARG:C	17:Br:55:ARG:N	2.79	0.41
19:Bt:15:ARG:O	19:Bt:18:GLN:HB3	2.21	0.41
21:By:16:ARG:C	21:By:18:LEU:N	2.79	0.41
22:Ba:19:C:H2'	22:Ba:20:U:C6	2.56	0.41
22:Ba:36:C:C2'	22:Ba:37:U:H5'	2.51	0.41
22:Ba:180:U:C2'	22:Ba:181:G:C5'	2.99	0.41
22:Ba:325:A:H2'	22:Ba:326:G:O4'	2.21	0.41
22:Ba:363:A:O2'	22:Ba:364:A:H5'	2.20	0.41
22:Ba:514:C:H2'	22:Ba:515:G:C8	2.55	0.41
22:Ba:791:G:C6	22:Ba:792:A:N7	2.88	0.41
22:Ba:869:G:H4'	22:Ba:872:A:O4'	2.21	0.41
22:Ba:892:A:O2'	22:Ba:1415:G:H4'	2.21	0.41
22:Ba:1126:U:O2'	22:Ba:1127:G:H5'	2.20	0.41
24:Bv:15:G:C2	24:Bv:59:A:C2	3.09	0.41
26:BC:23:ILE:HG13	26:BC:229:SER:OXT	2.21	0.41
26:BC:186:LEU:C	26:BC:188:ASP:N	2.77	0.41
27:BD:51:VAL:O	27:BD:54:ARG:HG2	2.21	0.41
29:BF:115:ALA:O	29:BF:118:ALA:N	2.52	0.41
30:BG:42:GLY:C	30:BG:43:LEU:HD22	2.46	0.41
30:BG:71:THR:HG21	57:BA:2312:U:C3'	2.50	0.41
31:BH:19:VAL:CG2	31:BH:44:VAL:HA	2.38	0.41
31:BH:159:GLU:O	31:BH:160:LYS:C	2.63	0.41
32:BI:108:THR:C	32:BI:109:ILE:HD12	2.46	0.41
33:BJ:21:GLN:CB	33:BJ:90:ALA:H	2.33	0.41
33:BJ:31:GLY:C	57:BA:1053:C:O2'	2.63	0.41
33:BJ:95:GLN:O	33:BJ:96:PHE:C	2.63	0.41
35:BO:43:VAL:HG21	35:BO:52:VAL:CG1	2.51	0.41
35:BO:90:GLN:N	35:BO:90:GLN:CD	2.78	0.41
36:BP:33:ARG:CZ	57:BA:587:C:H3'	2.50	0.41
36:BP:49:ARG:HH21	36:BP:50:ARG:HH22	1.67	0.41
36:BP:124:LYS:HD3	36:BP:124:LYS:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:76:LYS:HB3	37:BQ:91:GLU:CG	2.51	0.41
39:BS:13:ARG:HG3	39:BS:14:VAL:N	2.26	0.41
39:BS:20:ARG:NH2	57:BA:2378:A:H2	2.18	0.41
42:BV:39:LEU:HD12	42:BV:50:PRO:O	2.21	0.41
45:BY:67:LEU:HD11	45:BY:71:LYS:HB2	2.01	0.41
46:BZ:100:VAL:HG11	46:BZ:137:ILE:HG12	2.02	0.41
52:B5:29:THR:HG21	57:BA:2814:C:O2'	2.21	0.41
55:B8:50:LEU:O	55:B8:51:ALA:CB	2.66	0.41
56:B9:7:VAL:HG21	56:B9:36:GLN:HB2	2.02	0.41
57:BA:436:C:H2'	57:BA:437:G:H8	1.85	0.41
57:BA:848:G:C4	57:BA:933:A:H8	2.38	0.41
57:BA:877:U:H1'	57:BA:901:A:N6	2.36	0.41
57:BA:1039:G:C2	57:BA:1040:C:C4	3.09	0.41
57:BA:1493:C:O2	57:BA:1493:C:C2'	2.68	0.41
57:BA:1541:G:C4'	57:BA:1542:A:O4'	2.69	0.41
57:BA:1572:A:O2'	57:BA:1573:G:H5'	2.20	0.41
57:BA:1660:C:H2'	57:BA:1661:G:H8	1.86	0.41
57:BA:1762:A:H8	57:BA:1762:A:O5'	2.02	0.41
57:BA:1794:U:H1'	57:BA:1900:A:N3	2.36	0.41
57:BA:1984:G:O2'	57:BA:1985:G:H5'	2.20	0.41
57:BA:2103:C:C3'	57:BA:2104:G:C5'	2.96	0.41
57:BA:2131:G:H5"	57:BA:2132:U:C5'	2.51	0.41
57:BA:2517:C:N3	57:BA:2542:A:N6	2.68	0.41
57:BA:2607:G:H2'	57:BA:2608:G:O4'	2.21	0.41
57:BA:2654:A:H62	57:BA:2667:C:N4	2.19	0.41
57:BA:2877:G:C2'	57:BA:2878:U:H5'	2.50	0.41
58:BB:81:G:C6	58:BB:82:G:C5	3.09	0.41
58:BB:106:G:C2	58:BB:107:G:C8	3.08	0.41
1:Ab:36:ARG:O	1:Ab:37:ASN:HB3	2.21	0.41
1:Ab:212:GLN:O	1:Ab:216:SER:HB2	2.20	0.41
1:Ab:214:ILE:O	1:Ab:218:ALA:HB2	2.20	0.41
2:Ac:14:ILE:CG1	2:Ac:15:THR:H	2.08	0.41
2:Ac:37:GLN:C	2:Ac:39:ILE:H	2.29	0.41
2:Ac:118:GLN:O	2:Ac:122:GLU:HG3	2.21	0.41
3:Ad:6:GLY:O	3:Ad:7:PRO:C	2.64	0.41
3:Ad:8:VAL:HG23	3:Ad:9:CYS:N	2.36	0.41
3:Ad:14:ARG:HG3	3:Ad:59:ARG:NH1	2.36	0.41
3:Ad:148:VAL:HG12	3:Ad:152:SER:HB2	2.02	0.41
4:Ae:144:THR:N	4:Ae:147:ASP:HB2	2.36	0.41
5:Af:41:GLU:H	5:Af:62:TRP:HE3	1.68	0.41
5:Af:54:LYS:HE3	22:Aa:710:G:OP1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Ag:92:SER:O	6:Ag:96:GLN:HG3	2.21	0.41
6:Ag:101:LEU:O	6:Ag:105:VAL:HG23	2.21	0.41
7:Ah:29:SER:HA	22:Aa:590:C:OP1	2.20	0.41
9:Aj:48:THR:HG22	22:Aa:975:A:N1	2.35	0.41
9:Aj:53:PRO:HG3	22:Aa:1059:C:O2	2.21	0.41
9:Aj:70:ARG:HG2	9:Aj:70:ARG:HH11	1.86	0.41
9:Aj:95:GLU:OE2	9:Aj:95:GLU:HA	2.21	0.41
10:Ak:15:ALA:HB1	10:Ak:78:GLN:HE21	1.85	0.41
11:Al:12:ARG:NH2	22:Aa:881:G:OP2	2.47	0.41
11:Al:53:ARG:NH2	22:Aa:522:C:N4	2.64	0.41
11:Al:73:GLU:HG2	22:Aa:521:G:H4'	2.03	0.41
11:Al:82:VAL:HG23	11:Al:106:ASP:OD2	2.21	0.41
11:Al:104:VAL:H	11:Al:107:ALA:HB3	1.85	0.41
12:Am:108:ARG:HH22	22:Aa:1228:C:P	2.44	0.41
14:Ao:51:HIS:ND1	22:Aa:667:G:H4'	2.36	0.41
19:At:38:LYS:HA	19:At:41:ILE:HG12	2.03	0.41
20:Au:6:ARG:O	20:Au:7:ARG:CG	2.68	0.41
21:Ay:54:LYS:HG3	21:Ay:61:ARG:CD	2.42	0.41
21:Ay:57:SER:O	21:Ay:58:SER:C	2.64	0.41
22:Aa:59:A:H5"	22:Aa:60:A:H5"	2.01	0.41
22:Aa:109:A:C6	22:Aa:326:G:C6	3.08	0.41
22:Aa:277:C:H2'	22:Aa:278:G:H8	1.86	0.41
22:Aa:403:C:H2'	22:Aa:404:U:C6	2.46	0.41
22:Aa:630:G:C3'	22:Aa:631:G:C5'	2.94	0.41
22:Aa:702:A:H3'	22:Aa:703:G:C5'	2.50	0.41
22:Aa:885:G:H1'	22:Aa:914:A:N1	2.36	0.41
22:Aa:1025:U:H5"	22:Aa:1026:G:OP1	2.21	0.41
22:Aa:1121:U:H2'	22:Aa:1122:U:H6	1.86	0.41
22:Aa:1222:G:H2'	22:Aa:1223:C:O4'	2.21	0.41
22:Aa:1323:G:O2'	22:Aa:1324:A:H5'	2.21	0.41
22:Aa:1490:C:C3'	22:Aa:1491:G:H5"	2.51	0.41
22:Aa:1496:C:H2'	22:Aa:1497:G:O4'	2.21	0.41
26:AC:6:LYS:HA	26:AC:9:ARG:CB	2.47	0.41
27:AD:65:ILE:HD13	27:AD:65:ILE:O	2.21	0.41
27:AD:186:HIS:HD2	27:AD:188:GLU:H	1.68	0.41
27:AD:211:ARG:HG3	27:AD:211:ARG:HH11	1.86	0.41
27:AD:218:ARG:HH11	27:AD:218:ARG:HG3	1.86	0.41
27:AD:254:THR:O	27:AD:254:THR:OG1	2.37	0.41
27:AD:262:ARG:HD3	57:AA:2086:U:P	2.61	0.41
28:AE:55:ASN:ND2	28:AE:75:VAL:HG22	2.35	0.41
28:AE:69:LYS:HD3	28:AE:89:ASP:CG	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:132:HIS:CD2	28:AE:135:HIS:CE1	3.09	0.41
30:AG:120:LEU:HD13	30:AG:133:LEU:HD23	2.02	0.41
30:AG:145:THR:HG23	30:AG:146:TYR:N	2.36	0.41
31:AH:7:LEU:CD2	31:AH:69:ARG:CD	2.97	0.41
31:AH:44:VAL:H	31:AH:46:GLU:CD	2.28	0.41
32:AI:5:LEU:C	32:AI:6:LEU:HG	2.45	0.41
32:AI:8:PRO:C	32:AI:9:LEU:HD12	2.46	0.41
32:AI:15:VAL:C	32:AI:17:GLN:H	2.28	0.41
32:AI:68:LEU:HD21	32:AI:72:LEU:HD11	2.03	0.41
32:AI:92:VAL:HG11	32:AI:97:ILE:HD11	2.02	0.41
34:AN:71:ILE:HG21	34:AN:84:LYS:HB3	2.02	0.41
34:AN:94:HIS:H	34:AN:95:PRO:CD	2.34	0.41
35:AO:22:ILE:CD1	57:AA:1952:A:C5	3.03	0.41
36:AP:38:GLN:CG	36:AP:39:LYS:H	2.16	0.41
36:AP:39:LYS:CG	57:AA:807:U:OP2	2.68	0.41
37:AQ:137:TYR:CE2	46:AZ:81:ARG:NH1	2.89	0.41
38:AR:84:ALA:O	38:AR:85:PRO:C	2.63	0.41
39:AS:54:LEU:CD1	39:AS:57:LYS:HE3	2.51	0.41
40:AT:89:VAL:HB	40:AT:91:ARG:CG	2.50	0.41
40:AT:89:VAL:HG12	40:AT:91:ARG:HG3	2.02	0.41
40:AT:90:GLN:NE2	40:AT:124:ASP:OD2	2.54	0.41
40:AT:120:ARG:HA	40:AT:123:GLN:OE1	2.21	0.41
41:AU:20:LEU:CD2	41:AU:20:LEU:N	2.83	0.41
41:AU:55:ARG:HA	41:AU:58:ARG:HG3	2.03	0.41
42:AV:6:LYS:O	42:AV:37:VAL:HB	2.21	0.41
42:AV:20:LEU:N	42:AV:20:LEU:HD12	2.35	0.41
42:AV:22:VAL:O	42:AV:23:GLU:HB2	2.21	0.41
42:AV:38:LEU:HD23	42:AV:39:LEU:N	2.35	0.41
43:AW:36:LEU:HD13	43:AW:48:ALA:HA	2.01	0.41
44:AX:80:ILE:HD13	44:AX:80:ILE:C	2.42	0.41
45:AY:3:VAL:H	45:AY:5:MET:CE	2.32	0.41
45:AY:4:LYS:O	45:AY:5:MET:C	2.63	0.41
45:AY:44:ILE:H	45:AY:62:GLU:CD	2.28	0.41
45:AY:81:LYS:O	45:AY:82:PRO:C	2.64	0.41
46:AZ:142:SER:N	46:AZ:144:LEU:CD2	2.84	0.41
49:A2:53:LEU:HA	49:A2:56:GLN:NE2	2.35	0.41
51:A4:12:ALA:CA	51:A4:29:PRO:HG3	2.51	0.41
51:A4:48:ARG:HG3	51:A4:49:PHE:CD1	2.55	0.41
52:A5:3:LYS:NZ	57:AA:2613:U:O2'	2.48	0.41
53:A6:8:LYS:O	53:A6:9:LEU:O	2.39	0.41
53:A6:9:LEU:HD22	53:A6:9:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:A6:14:THR:O	53:A6:14:THR:HG23	2.21	0.41
53:A6:29:ASN:OD1	53:A6:30:THR:N	2.54	0.41
55:A8:33:ASN:HA	55:A8:36:LYS:CD	2.50	0.41
55:A8:54:GLU:HG2	55:A8:57:ARG:HH21	1.86	0.41
57:AA:15:G:O2'	57:AA:16:G:H5'	2.21	0.41
57:AA:57:C:H2'	57:AA:58:G:O4'	2.20	0.41
57:AA:127:A:H5"	57:AA:128:C:C6	2.56	0.41
57:AA:146:G:C2'	57:AA:147:U:H5'	2.51	0.41
57:AA:192:C:C2'	57:AA:193:U:H5'	2.51	0.41
57:AA:412:A:N6	57:AA:2412:A:O4'	2.54	0.41
57:AA:436:C:H2'	57:AA:437:G:C8	2.55	0.41
57:AA:579:G:H2'	57:AA:580:C:H6	1.79	0.41
57:AA:692:C:H2'	57:AA:693:C:H6	1.84	0.41
57:AA:862:G:H2'	57:AA:863:A:O4'	2.21	0.41
57:AA:877:U:H1'	57:AA:901:A:N6	2.36	0.41
57:AA:878:A:C6	57:AA:900:A:C8	3.09	0.41
57:AA:1231:G:H2'	57:AA:1232:G:C8	2.55	0.41
57:AA:1293:C:H2'	57:AA:1294:U:H6	1.86	0.41
57:AA:1332:G:H21	57:AA:1610:A:H8	1.63	0.41
57:AA:1591:G:C6	57:AA:1592:C:C4	3.09	0.41
57:AA:1682:G:H2'	57:AA:1683:C:C6	2.56	0.41
57:AA:1811:G:O2'	57:AA:1812:A:H5'	2.21	0.41
57:AA:1826:G:H2'	57:AA:1827:C:C6	2.56	0.41
57:AA:1888:G:H5'	57:AA:1888:G:N3	2.36	0.41
57:AA:2033:A:HO2'	57:AA:2034:U:P	2.43	0.41
57:AA:2067:G:O2'	57:AA:2069:G:H5"	2.20	0.41
57:AA:2136:C:N4	57:AA:2156:G:H21	2.19	0.41
57:AA:2278:A:C2'	57:AA:2279:G:O5'	2.69	0.41
57:AA:2287:A:C2	57:AA:2346:A:H2	2.39	0.41
57:AA:2397:G:C2	57:AA:2420:C:H1'	2.55	0.41
57:AA:2507:C:C2	57:AA:2508:G:C8	3.09	0.41
57:AA:2515:C:O2'	57:AA:2516:G:H5'	2.20	0.41
57:AA:2584:U:O2	57:AA:2584:U:O4'	2.39	0.41
57:AA:2600:A:H2'	57:AA:2601:C:H6	1.86	0.41
57:AA:2772:C:H2'	57:AA:2773:C:C6	2.56	0.41
58:AB:31:C:H2'	58:AB:53:A:H61	1.86	0.41
1:Bb:74:LYS:CD	1:Bb:166:ASP:HB2	2.50	0.41
1:Bb:83:MET:C	1:Bb:85:ALA:H	2.29	0.41
1:Bb:138:LEU:O	1:Bb:141:GLU:HB3	2.21	0.41
1:Bb:223:ILE:HG12	1:Bb:226:ARG:NH2	2.36	0.41
1:Bb:224:GLN:C	1:Bb:226:ARG:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Bc:19:GLU:O	2:Bc:40:ARG:NH2	2.54	0.41
2:Bc:22:TRP:HB2	2:Bc:23:TYR:H	1.70	0.41
2:Bc:67:THR:O	2:Bc:69:HIS:CD2	2.74	0.41
2:Bc:108:ASN:HB3	2:Bc:111:LEU:HG	2.01	0.41
2:Bc:175:LEU:HD21	2:Bc:201:TYR:CE2	2.55	0.41
3:Bd:10:ARG:HH22	22:Ba:542:G:P	2.43	0.41
3:Bd:36:ARG:HH12	22:Ba:426:G:P	2.44	0.41
3:Bd:101:LEU:HG	3:Bd:101:LEU:O	2.21	0.41
3:Bd:150:GLU:OE2	3:Bd:150:GLU:N	2.53	0.41
3:Bd:177:ASP:O	3:Bd:178:VAL:C	2.64	0.41
3:Bd:192:GLU:OE2	3:Bd:192:GLU:N	2.54	0.41
4:Be:32:VAL:HG21	4:Be:55:VAL:HG12	2.03	0.41
4:Be:47:LYS:HD3	4:Be:47:LYS:H	1.86	0.41
5:Bf:44:GLY:HA2	5:Bf:59:TYR:CZ	2.56	0.41
6:Bg:68:ASN:ND2	6:Bg:128:ALA:HA	2.36	0.41
6:Bg:138:LYS:O	6:Bg:138:LYS:HD3	2.21	0.41
6:Bg:139:GLU:O	6:Bg:143:ARG:N	2.51	0.41
10:Bk:34:ASP:C	10:Bk:34:ASP:OD2	2.62	0.41
10:Bk:106:LYS:O	10:Bk:107:SER:CB	2.67	0.41
10:Bk:124:LYS:HB3	10:Bk:125:PHE:CD1	2.56	0.41
12:Bm:17:VAL:HG21	22:Ba:1302:U:H5	1.82	0.41
12:Bm:58:GLU:O	12:Bm:62:ASN:CB	2.69	0.41
12:Bm:74:VAL:O	12:Bm:78:ILE:HG13	2.20	0.41
13:Bn:29:ARG:HD3	22:Ba:1202:G:H1'	2.03	0.41
14:Bo:51:HIS:CE1	22:Ba:667:G:H4'	2.56	0.41
15:Bp:82:GLN:O	15:Bp:83:GLU:HB2	2.21	0.41
16:Bq:17:LYS:HZ1	22:Ba:256:U:C5'	2.33	0.41
16:Bq:66:SER:HA	22:Ba:265:G:O3'	2.21	0.41
20:Bu:18:TYR:HA	20:Bu:22:ARG:HD3	2.03	0.41
21:By:22:VAL:CG2	21:By:58:SER:OG	2.69	0.41
22:Ba:12:U:C2'	22:Ba:13:U:H5"	2.51	0.41
22:Ba:171:A:H2'	22:Ba:172:A:C8	2.56	0.41
22:Ba:229:U:H2'	22:Ba:230:G:C8	2.56	0.41
22:Ba:295:C:H2'	22:Ba:296:U:H6	1.80	0.41
22:Ba:382:A:H2'	22:Ba:383:A:H8	1.83	0.41
22:Ba:644:G:C2'	22:Ba:645:C:H5'	2.51	0.41
22:Ba:707:C:O2'	22:Ba:708:C:H5'	2.21	0.41
22:Ba:783:C:O2'	22:Ba:784:C:H5'	2.20	0.41
22:Ba:889:A:N1	22:Ba:907:A:H5"	2.35	0.41
22:Ba:1202:G:O2'	22:Ba:1203:C:H5'	2.20	0.41
22:Ba:1207:G:O2'	22:Ba:1208:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ba:1285:A:O4'	22:Ba:1286:A:C8	2.74	0.41
22:Ba:1348:U:H5	22:Ba:1373:G:N2	2.19	0.41
22:Ba:1376:U:C2	22:Ba:1377:A:N7	2.89	0.41
22:Ba:1504:G:H4'	22:Ba:1505:G:O4'	2.21	0.41
24:Bv:4:G:C6	24:Bv:70:G:C6	3.09	0.41
24:Bv:50:U:H2'	24:Bv:51:C:C6	2.55	0.41
25:Bw:27:U:O2	25:Bw:44:A:C2	2.74	0.41
26:BC:182:PRO:HA	26:BC:183:PRO:HD3	1.88	0.41
27:BD:9:TYR:CD2	57:BA:727:A:H2	2.38	0.41
27:BD:28:GLU:CD	27:BD:28:GLU:N	2.78	0.41
27:BD:47:GLY:CA	57:BA:773:U:H4'	2.51	0.41
27:BD:69:ARG:NH2	27:BD:128:GLY:O	2.42	0.41
27:BD:118:VAL:CG2	27:BD:119:ALA:H	2.34	0.41
27:BD:142:VAL:HG22	27:BD:143:HIS:N	2.35	0.41
27:BD:153:ALA:C	27:BD:154:LYS:HG2	2.46	0.41
27:BD:186:HIS:HD2	27:BD:188:GLU:HB2	1.86	0.41
27:BD:270:ILE:H	27:BD:270:ILE:HD12	1.85	0.41
28:BE:4:ILE:CG1	28:BE:5:LEU:N	2.81	0.41
28:BE:57:LYS:HZ3	28:BE:63:LEU:HG	1.86	0.41
28:BE:134:ILE:HD13	57:BA:2579:C:H1'	2.03	0.41
28:BE:176:ILE:O	28:BE:177:PRO:C	2.64	0.41
28:BE:181:LEU:HG	40:BT:11:GLU:OE2	2.21	0.41
29:BF:40:GLN:HE22	29:BF:184:TYR:N	2.15	0.41
29:BF:176:LEU:HD21	29:BF:180:GLY:O	2.21	0.41
30:BG:44:GLY:H	30:BG:88:ILE:CG2	2.31	0.41
30:BG:67:LYS:HE3	58:BB:42:C:C5'	2.39	0.41
30:BG:80:PHE:O	30:BG:81:LYS:O	2.39	0.41
30:BG:101:ILE:O	30:BG:101:ILE:HG22	2.20	0.41
30:BG:168:GLU:O	30:BG:171:ALA:N	2.53	0.41
31:BH:9:ILE:O	31:BH:9:ILE:CG2	2.62	0.41
31:BH:35:VAL:O	31:BH:37:VAL:HG23	2.21	0.41
31:BH:38:SER:HA	31:BH:39:PRO:HD3	1.93	0.41
31:BH:117:PRO:HB3	31:BH:123:PHE:CE1	2.56	0.41
31:BH:149:ARG:HA	31:BH:162:ILE:CD1	2.51	0.41
32:BI:14:ASP:O	32:BI:15:VAL:O	2.39	0.41
32:BI:85:GLU:HB3	32:BI:86:THR:H	1.75	0.41
34:BN:62:VAL:O	34:BN:62:VAL:CG1	2.67	0.41
34:BN:120:LEU:C	34:BN:121:LYS:HD2	2.46	0.41
35:BO:77:ILE:HD11	40:BT:72:VAL:HG11	2.03	0.41
35:BO:114:ILE:H	35:BO:114:ILE:CD1	2.30	0.41
36:BP:59:LEU:C	36:BP:61:ARG:HD2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:72:PRO:HG2	57:BA:411:G:O2'	2.20	0.41
36:BP:126:VAL:HG22	36:BP:145:PRO:CB	2.50	0.41
37:BQ:46:GLN:HE22	37:BQ:126:PRO:HB3	1.85	0.41
37:BQ:137:TYR:OH	46:BZ:81:ARG:NE	2.54	0.41
38:BR:2:ARG:CD	38:BR:5:LYS:HE2	2.38	0.41
38:BR:23:ASN:ND2	57:BA:1294:U:O2'	2.54	0.41
38:BR:53:HIS:CD2	57:BA:2840:C:H4'	2.56	0.41
38:BR:101:ALA:N	52:B5:44:THR:HG22	2.35	0.41
39:BS:52:SER:HB3	39:BS:55:ALA:HB3	2.02	0.41
40:BT:78:LEU:O	40:BT:79:HIS:ND1	2.54	0.41
41:BU:17:ILE:C	41:BU:19:LYS:N	2.77	0.41
43:BW:5:ALA:O	57:BA:494:G:O2'	2.38	0.41
44:BX:60:ARG:HH21	54:B7:47:ARG:CD	2.29	0.41
45:BY:52:SER:O	45:BY:53:PRO:C	2.63	0.41
46:BZ:104:PHE:CA	46:BZ:141:VAL:HG21	2.51	0.41
46:BZ:149:SER:OG	46:BZ:150:LEU:N	2.53	0.41
47:B0:20:ARG:HH12	57:BA:2271:G:H4'	1.86	0.41
48:B1:29:GLY:C	48:B1:30:VAL:CG2	2.94	0.41
48:B1:29:GLY:C	48:B1:30:VAL:HG22	2.46	0.41
48:B1:45:ASN:ND2	48:B1:47:GLN:NE2	2.67	0.41
48:B1:75:GLU:C	48:B1:77:ALA:N	2.78	0.41
53:B6:5:VAL:HG13	53:B6:7:ILE:N	2.29	0.41
53:B6:27:LYS:HD3	53:B6:27:LYS:O	2.21	0.41
53:B6:48:VAL:C	53:B6:49:HIS:HD1	2.29	0.41
55:B8:18:ALA:C	55:B8:20:GLY:N	2.78	0.41
56:B9:36:GLN:HG2	57:BA:1124:C:O2'	2.21	0.41
57:BA:176:G:C2'	57:BA:177:G:H5'	2.51	0.41
57:BA:481:G:C2'	57:BA:482:A:OP2	2.69	0.41
57:BA:523:C:H2'	57:BA:524:U:C5'	2.50	0.41
57:BA:523:C:H4'	57:BA:540:C:O2	2.21	0.41
57:BA:740:U:H2'	57:BA:741:G:H8	1.84	0.41
57:BA:824:A:H2'	57:BA:825:C:C6	2.56	0.41
57:BA:933:A:H2'	57:BA:934:G:O4'	2.21	0.41
57:BA:1164:G:H2'	57:BA:1165:U:C6	2.56	0.41
57:BA:1326:U:O2'	57:BA:1327:C:H5'	2.20	0.41
57:BA:1465:G:O4'	57:BA:1528:A:C8	2.73	0.41
57:BA:1480:G:C6	57:BA:1481:U:C4	3.08	0.41
57:BA:1531:C:O2'	57:BA:1532:C:H5'	2.20	0.41
57:BA:1536:C:O2'	57:BA:1537:G:H5'	2.21	0.41
57:BA:1577:C:H2'	57:BA:1578:U:C1'	2.51	0.41
57:BA:2236:C:H2'	57:BA:2237:G:C5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:2460:U:C4	57:BA:2461:C:C5	3.09	0.41
57:BA:2507:C:C2	57:BA:2508:G:C8	3.09	0.41
57:BA:2536:G:C6	57:BA:2537:U:C4	3.08	0.41
1:Ab:144:ARG:CA	1:Ab:147:LYS:HB3	2.43	0.41
1:Ab:239:VAL:O	1:Ab:240:GLN:HB3	2.21	0.41
2:Ac:63:ASN:O	2:Ac:64:VAL:HG23	2.20	0.41
2:Ac:87:LEU:C	2:Ac:89:GLU:H	2.29	0.41
3:Ad:9:CYS:SG	3:Ad:22:LYS:CD	3.05	0.41
3:Ad:59:ARG:O	3:Ad:61:LYS:N	2.54	0.41
3:Ad:121:VAL:HA	3:Ad:126:ILE:HD13	2.02	0.41
4:Ae:143:ARG:CG	4:Ae:143:ARG:NH1	2.80	0.41
6:Ag:23:VAL:CG1	6:Ag:43:PHE:CE2	3.04	0.41
6:Ag:68:ASN:ND2	6:Ag:128:ALA:HA	2.36	0.41
7:Ah:19:VAL:CG2	7:Ah:21:LYS:HE2	2.51	0.41
7:Ah:138:TRP:HE3	7:Ah:138:TRP:OXT	2.04	0.41
9:Aj:5:ARG:HG2	9:Aj:71:LEU:HD11	2.03	0.41
9:Aj:22:LYS:C	9:Aj:24:VAL:N	2.76	0.41
9:Aj:62:HIS:O	13:An:59:ALA:HB3	2.20	0.41
10:Ak:11:LYS:O	10:Ak:13:GLN:HG3	2.21	0.41
10:Ak:106:LYS:O	10:Ak:107:SER:CB	2.69	0.41
13:An:6:LEU:HD11	22:Aa:982:U:H5"	2.03	0.41
18:As:4:SER:O	18:As:6:LYS:NZ	2.44	0.41
19:At:76:ALA:O	19:At:80:ARG:HG2	2.21	0.41
21:Ay:56:ARG:O	21:Ay:57:SER:C	2.64	0.41
22:Aa:262:A:H2'	22:Aa:263:A:C8	2.57	0.41
22:Aa:316:G:OP2	22:Aa:351:G:O2'	2.39	0.41
22:Aa:382:A:H2'	22:Aa:383:A:H8	1.84	0.41
22:Aa:530:G:N3	22:Aa:530:G:C2'	2.81	0.41
22:Aa:1116:C:H3'	22:Aa:1117:G:H5"	1.99	0.41
22:Aa:1121:U:H2'	22:Aa:1122:U:C6	2.56	0.41
22:Aa:1238:A:C5	22:Aa:1303:C:H1'	2.54	0.41
22:Aa:1471:G:H2'	22:Aa:1472:U:C6	2.56	0.41
26:AC:29:LEU:HD22	26:AC:33:LEU:CD1	2.51	0.41
27:AD:15:PHE:O	27:AD:17:THR:HG23	2.21	0.41
27:AD:47:GLY:HA2	57:AA:773:U:H4'	2.02	0.41
28:AE:36:ARG:NH2	28:AE:86:PRO:HG2	2.36	0.41
28:AE:133:LYS:C	28:AE:134:ILE:HG22	2.46	0.41
29:AF:45:ARG:NH2	57:AA:443:A:H3'	2.36	0.41
29:AF:83:PHE:O	29:AF:84:VAL:HB	2.20	0.41
29:AF:160:ASN:HD22	29:AF:161:GLU:N	2.18	0.41
30:AG:87:PRO:HB2	30:AG:88:ILE:H	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AG:102:PHE:O	30:AG:103:LEU:C	2.63	0.41
32:AI:90:GLY:O	32:AI:96:ASP:OD2	2.39	0.41
32:AI:93:THR:C	32:AI:95:LYS:N	2.75	0.41
34:AN:39:ARG:HG3	34:AN:39:ARG:H	1.77	0.41
34:AN:43:THR:HA	34:AN:44:PRO:HD2	1.77	0.41
35:AO:90:GLN:N	35:AO:90:GLN:CD	2.79	0.41
40:AT:117:ASP:O	40:AT:118:ARG:C	2.63	0.41
41:AU:27:LEU:HD23	41:AU:27:LEU:HA	1.86	0.41
41:AU:53:ARG:HH11	57:AA:536:A:P	2.44	0.41
46:AZ:99:TYR:HA	46:AZ:125:LEU:HA	2.03	0.41
46:AZ:107:THR:O	46:AZ:108:PRO:C	2.63	0.41
48:A1:62:VAL:CG2	48:A1:66:HIS:HB2	2.49	0.41
51:A4:55:ARG:HG3	51:A4:55:ARG:H	1.68	0.41
53:A6:5:VAL:HG13	53:A6:7:ILE:HG22	2.02	0.41
53:A6:15:GLU:OE2	53:A6:16:CYS:O	2.38	0.41
55:A8:51:ALA:C	55:A8:53:PRO:CD	2.85	0.41
57:AA:572:A:H2'	57:AA:573:G:O4'	2.20	0.41
57:AA:999:U:H5"	57:AA:1154:G:O6	2.21	0.41
57:AA:1204:A:H61	57:AA:1240:U:H2'	1.85	0.41
57:AA:1541:G:C5'	57:AA:1542:A:O4'	2.69	0.41
57:AA:1821:A:H2'	57:AA:1822:G:H8	1.86	0.41
57:AA:2688:U:H5	57:AA:2720:U:OP2	2.04	0.41
57:AA:2713:A:H3'	57:AA:2714:G:C5'	2.51	0.41
58:AB:77:U:H2'	58:AB:78:A:H5'	2.02	0.41
1:Bb:185:ILE:HG22	1:Bb:199:TYR:CB	2.50	0.41
2:Bc:113:ALA:O	2:Bc:114:PRO:C	2.64	0.41
3:Bd:40:PRO:O	3:Bd:44:GLY:HA3	2.21	0.41
3:Bd:132:ARG:HD2	3:Bd:132:ARG:C	2.46	0.41
3:Bd:135:LEU:HD11	22:Ba:619:U:H3	1.85	0.41
5:Bf:98:LEU:HD12	5:Bf:98:LEU:N	2.36	0.41
6:Bg:107:ALA:O	6:Bg:110:GLN:HB2	2.21	0.41
7:Bh:77:GLU:HG2	7:Bh:78:GLN:H	1.86	0.41
8:Bi:19:LEU:HD12	8:Bi:84:ALA:HB1	2.04	0.41
8:Bi:41:VAL:O	8:Bi:41:VAL:HG12	2.21	0.41
10:Bk:115:PRO:C	10:Bk:117:ASN:N	2.79	0.41
11:Bl:25:PRO:O	11:Bl:27:LEU:HD22	2.21	0.41
11:Bl:50:SER:O	11:Bl:51:ALA:HB2	2.21	0.41
12:Bm:108:ARG:HD2	12:Bm:108:ARG:H	1.86	0.41
12:Bm:108:ARG:CG	12:Bm:114:ARG:HG3	2.51	0.41
15:Bp:28:ARG:NH1	15:Bp:29:ASP:OD2	2.54	0.41
17:Br:66:LEU:HG	17:Br:70:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Bs:35:SER:C	18:Bs:37:ARG:N	2.79	0.41
19:Bt:83:ARG:O	19:Bt:84:LEU:C	2.63	0.41
21:By:25:GLN:HG3	22:Ba:531:U:C5	2.55	0.41
21:By:60:TYR:C	21:By:61:ARG:HD3	2.46	0.41
22:Ba:39:G:H2'	22:Ba:40:C:H6	1.85	0.41
22:Ba:221:C:O2'	22:Ba:222:U:H5'	2.21	0.41
22:Ba:309:G:H2'	22:Ba:310:G:H8	1.86	0.41
22:Ba:596:C:O2'	22:Ba:597:G:H5'	2.21	0.41
22:Ba:977:A:C2'	22:Ba:978:A:H5'	2.51	0.41
24:Bv:64:G:H2'	24:Bv:65:C:O4'	2.21	0.41
26:BC:29:LEU:HD22	26:BC:33:LEU:CD1	2.51	0.41
27:BD:47:GLY:HA2	57:BA:773:U:C5'	2.51	0.41
27:BD:257:LEU:HD23	27:BD:258:LYS:N	2.36	0.41
29:BF:34:TRP:CH2	36:BP:12:ALA:HB2	2.56	0.41
30:BG:166:ASP:OD1	30:BG:166:ASP:N	2.54	0.41
32:BI:69:LYS:O	32:BI:73:GLU:HG2	2.20	0.41
33:BJ:67:GLY:HA2	33:BJ:72:ASP:CA	2.48	0.41
33:BJ:111:LEU:O	33:BJ:112:LEU:C	2.64	0.41
34:BN:30:ILE:HG23	34:BN:52:VAL:HG11	2.04	0.41
34:BN:36:GLY:C	34:BN:38:HIS:H	2.29	0.41
34:BN:111:PRO:O	34:BN:114:ARG:HB3	2.21	0.41
36:BP:71:VAL:HG12	57:BA:389:G:N1	2.35	0.41
38:BR:29:LEU:HD12	38:BR:29:LEU:HA	1.80	0.41
39:BS:41:ASP:O	39:BS:44:LYS:HB2	2.21	0.41
39:BS:54:LEU:CD1	39:BS:57:LYS:HE3	2.51	0.41
39:BS:103:GLU:O	39:BS:104:GLY:C	2.64	0.41
40:BT:36:GLU:HG2	40:BT:36:GLU:O	2.21	0.41
40:BT:106:SER:C	40:BT:107:ASP:OD2	2.64	0.41
41:BU:101:ARG:HB2	41:BU:101:ARG:NH1	2.20	0.41
45:BY:23:ARG:O	45:BY:24:VAL:O	2.39	0.41
46:BZ:125:LEU:C	46:BZ:126:VAL:HG13	2.46	0.41
48:B1:52:ARG:HA	48:B1:52:ARG:HD2	1.91	0.41
48:B1:84:GLY:O	48:B1:85:LEU:C	2.63	0.41
53:B6:8:LYS:CE	53:B6:25:LYS:HD3	2.51	0.41
55:B8:50:LEU:HA	55:B8:53:PRO:CG	2.49	0.41
56:B9:10:ILE:HD12	56:B9:32:HIS:CG	2.56	0.41
57:BA:271(D):G:O2'	57:BA:271(E):U:H5'	2.20	0.41
57:BA:319:C:O2'	57:BA:320:A:H5'	2.21	0.41
57:BA:380:U:H2'	57:BA:381:G:H8	1.85	0.41
57:BA:673:C:H2'	57:BA:674:G:C5'	2.51	0.41
57:BA:1284:A:O2'	57:BA:1285:G:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1427:A:H4'	57:BA:1428:C:O5'	2.21	0.41
57:BA:1503:U:H2'	57:BA:1504:C:H6	1.80	0.41
57:BA:1907:G:C6	57:BA:1908:C:C4	3.09	0.41
57:BA:2103:C:H42	57:BA:2186:G:H1	1.68	0.41
57:BA:2317:C:C2'	57:BA:2318:G:C5'	2.90	0.41
57:BA:2389:G:H5"	57:BA:2390:U:O4'	2.20	0.41
57:BA:2415:G:H2'	57:BA:2416:C:H6	1.85	0.41
57:BA:2491:U:C5'	57:BA:2570:G:H5"	2.20	0.41
57:BA:2839:G:H2'	57:BA:2840:C:C6	2.56	0.41
1:Ab:83:MET:C	1:Ab:85:ALA:H	2.29	0.40
1:Ab:118:LEU:C	1:Ab:120:ALA:N	2.78	0.40
2:Ac:23:TYR:CD2	2:Ac:24:ALA:N	2.89	0.40
2:Ac:71:ALA:HB3	2:Ac:109:PRO:HB3	2.03	0.40
3:Ad:40:PRO:O	3:Ad:44:GLY:HA3	2.21	0.40
3:Ad:78:LEU:O	3:Ad:79:PHE:C	2.64	0.40
3:Ad:162:LEU:HD11	3:Ad:181:MET:CG	2.49	0.40
4:Ae:7:GLU:O	4:Ae:8:GLU:CB	2.69	0.40
6:Ag:15:ASP:N	6:Ag:19:GLY:HA2	2.36	0.40
12:Am:73:GLU:O	12:Am:76:ALA:N	2.54	0.40
15:Ap:4:ILE:HD11	15:Ap:64:ALA:HB1	2.03	0.40
16:Aq:6:LEU:O	16:Aq:58:GLU:HA	2.21	0.40
17:Ar:66:LEU:HG	17:Ar:70:ILE:HD11	2.02	0.40
19:At:13:LEU:O	19:At:14:LYS:C	2.65	0.40
21:Ay:29:LYS:NZ	22:Aa:518:C:OP2	2.46	0.40
22:Aa:102:G:C4	22:Aa:103:C:C5	3.09	0.40
22:Aa:309:G:O2'	22:Aa:310:G:H5'	2.20	0.40
22:Aa:448:A:P	22:Aa:485:G:H22	2.44	0.40
22:Aa:697:U:O2	22:Aa:798:G:H1'	2.21	0.40
22:Aa:833:U:H3	22:Aa:853:G:H1	1.69	0.40
22:Aa:853:G:H2'	22:Aa:854:G:H8	1.87	0.40
22:Aa:979:C:C3'	22:Aa:980:C:C5'	2.91	0.40
22:Aa:1086:U:H2'	22:Aa:1087:G:H8	1.86	0.40
22:Aa:1465:C:O2'	22:Aa:1466:C:H5'	2.22	0.40
22:Aa:1511:G:O2'	22:Aa:1512:U:H5'	2.20	0.40
24:Av:59:A:H2'	24:Av:60:U:C5'	2.36	0.40
28:AE:7:VAL:HG13	28:AE:27:LEU:HB3	2.03	0.40
28:AE:50:GLY:CA	28:AE:78:LEU:HB3	2.51	0.40
28:AE:57:LYS:HZ3	28:AE:63:LEU:HG	1.85	0.40
29:AF:21:ALA:O	29:AF:23:ASP:N	2.54	0.40
29:AF:81:PRO:HB3	29:AF:89:VAL:HG22	2.02	0.40
29:AF:168:ARG:C	29:AF:170:LEU:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AF:176:LEU:HD21	29:AF:180:GLY:O	2.21	0.40
29:AF:185:ASP:O	29:AF:186:ILE:C	2.65	0.40
30:AG:67:LYS:HE2	51:A4:6:HIS:CD2	2.55	0.40
30:AG:71:THR:CG2	57:AA:2312:U:O2'	2.65	0.40
31:AH:137:ASP:HB3	31:AH:140:LYS:HB2	2.02	0.40
32:AI:7:GLU:O	32:AI:8:PRO:C	2.64	0.40
32:AI:9:LEU:HB2	32:AI:12:LEU:O	2.21	0.40
36:AP:90:ARG:HD2	36:AP:91:PHE:HD1	1.85	0.40
37:AQ:134:ARG:HA	37:AQ:137:TYR:CE1	2.54	0.40
38:AR:5:LYS:HD2	57:AA:2820:A:O4'	2.21	0.40
38:AR:63:ARG:NH2	38:AR:77:ARG:HG2	2.36	0.40
40:AT:28:VAL:HG23	40:AT:47:GLY:O	2.20	0.40
40:AT:114:LEU:HD23	40:AT:114:LEU:HA	1.78	0.40
43:AW:24:ILE:HA	43:AW:27:LYS:HG3	2.02	0.40
43:AW:110:LYS:C	43:AW:111:HIS:ND1	2.79	0.40
45:AY:84:ARG:HD2	45:AY:97:ARG:CD	2.51	0.40
47:A0:20:ARG:NH1	57:AA:2271:G:C5'	2.84	0.40
48:A1:19:GLN:HB3	48:A1:35:THR:CG2	2.51	0.40
48:A1:92:LYS:NZ	57:AA:153:C:OP1	2.33	0.40
53:A6:8:LYS:CE	53:A6:25:LYS:HD3	2.51	0.40
57:AA:7:G:H2'	57:AA:8:A:O4'	2.21	0.40
57:AA:570:G:H2'	57:AA:2030:A:C5	2.56	0.40
57:AA:620:G:H8	57:AA:622:G:O6	2.04	0.40
57:AA:1541:G:C4'	57:AA:1542:A:O4'	2.68	0.40
57:AA:1639:U:H2'	57:AA:1640:C:C5'	2.51	0.40
57:AA:2563:U:H2'	57:AA:2565:A:OP2	2.21	0.40
57:AA:2722:G:H2'	57:AA:2723:C:C6	2.55	0.40
57:AA:2745:C:H2'	57:AA:2746:U:C6	2.56	0.40
58:AB:65:C:N4	58:AB:109:C:H2'	2.35	0.40
1:Bb:101:MET:HA	1:Bb:108:ILE:HG13	2.03	0.40
1:Bb:137:ARG:HG2	1:Bb:137:ARG:NH1	2.37	0.40
1:Bb:204:ASN:HD21	1:Bb:206:ASP:CB	2.28	0.40
1:Bb:235:SER:O	1:Bb:237:ALA:N	2.54	0.40
2:Bc:22:TRP:CZ3	2:Bc:32:LEU:HD13	2.56	0.40
3:Bd:127:THR:OG1	3:Bd:128:VAL:N	2.55	0.40
4:Be:101:ILE:O	4:Be:120:THR:OG1	2.39	0.40
5:Bf:3:ARG:HG3	5:Bf:3:ARG:NH1	2.35	0.40
10:Bk:96:ARG:H	10:Bk:96:ARG:HG3	1.70	0.40
10:Bk:124:LYS:NZ	10:Bk:124:LYS:HB2	2.36	0.40
11:Bl:7:ILE:HD12	11:Bl:7:ILE:HA	1.91	0.40
12:Bm:19:LEU:C	12:Bm:22:ILE:HD13	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Bm:19:LEU:O	12:Bm:22:ILE:HD13	2.21	0.40
12:Bm:93:ARG:HA	12:Bm:93:ARG:HE	1.86	0.40
13:Bn:36:PHE:CD1	13:Bn:37:PHE:N	2.88	0.40
14:Bo:48:LYS:HE3	22:Ba:808:C:P	2.61	0.40
18:Bs:9:VAL:C	18:Bs:11:VAL:H	2.28	0.40
18:Bs:12:ASP:OD2	18:Bs:37:ARG:NH1	2.54	0.40
19:Bt:78:ALA:O	19:Bt:79:ARG:C	2.64	0.40
20:Bu:6:ARG:O	20:Bu:7:ARG:CG	2.69	0.40
22:Ba:20:U:H2'	22:Ba:21:G:O4'	2.21	0.40
22:Ba:189(E):U:O2'	22:Ba:189(F):U:H5'	2.22	0.40
22:Ba:506:G:C4	22:Ba:507:C:C5	3.08	0.40
22:Ba:657:G:C2	22:Ba:750:G:C5	3.09	0.40
22:Ba:923:A:H2'	22:Ba:924:C:C6	2.56	0.40
22:Ba:1120:G:H2'	22:Ba:1121:U:C6	2.56	0.40
22:Ba:1245:A:N1	22:Ba:1293:G:C6	2.89	0.40
22:Ba:1305:G:N2	22:Ba:1331:G:H1'	2.36	0.40
22:Ba:1504:G:O2'	22:Ba:1505:G:P	2.79	0.40
25:Bw:12:G:C2	25:Bw:13:C:H1'	2.56	0.40
26:BC:45:HIS:ND1	26:BC:173:HIS:CB	2.83	0.40
27:BD:139:GLY:O	27:BD:140:THR:C	2.64	0.40
28:BE:34:VAL:HG11	28:BE:78:LEU:HD23	2.02	0.40
29:BF:192:LEU:CD2	29:BF:194:MET:HE2	2.51	0.40
30:BG:64:THR:OG1	30:BG:94:LEU:HD21	2.21	0.40
30:BG:178:PHE:HA	30:BG:179:PRO:HD2	1.94	0.40
32:BI:83:ALA:CB	32:BI:88:ILE:HA	2.51	0.40
34:BN:25:ARG:HA	57:BA:1012:U:O4	2.21	0.40
34:BN:87:LEU:O	34:BN:88:GLU:C	2.64	0.40
34:BN:120:LEU:HD21	34:BN:122:VAL:HG23	2.02	0.40
35:BO:107:ARG:O	35:BO:110:GLY:N	2.54	0.40
36:BP:35:HIS:CE1	57:BA:941:A:H4'	2.55	0.40
37:BQ:79:LEU:HD11	57:BA:2460:U:H4'	2.04	0.40
40:BT:51:ARG:HG2	40:BT:52:ILE:N	2.29	0.40
41:BU:53:ARG:HH11	57:BA:536:A:P	2.44	0.40
41:BU:62:ILE:HG12	41:BU:76:TYR:CZ	2.56	0.40
41:BU:74:LEU:HD21	41:BU:79:PHE:HB2	2.03	0.40
43:BW:93:ALA:N	57:BA:1614:A:N6	2.70	0.40
44:BX:8:ILE:H	44:BX:8:ILE:CD1	2.34	0.40
44:BX:12:VAL:HG11	44:BX:27:THR:HG23	2.03	0.40
44:BX:60:ARG:HH21	54:B7:47:ARG:NH1	2.17	0.40
45:BY:30:VAL:HG12	45:BY:31:LEU:N	2.36	0.40
45:BY:62:GLU:CD	45:BY:63:LYS:O	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:95:LYS:CD	45:BY:101:LYS:H	2.34	0.40
48:B1:4:VAL:HG22	48:B1:5:CYS:N	2.36	0.40
48:B1:82:LEU:HD22	48:B1:82:LEU:N	2.36	0.40
50:B3:2:PRO:O	50:B3:3:ARG:C	2.64	0.40
50:B3:17:LYS:HG2	57:BA:969:U:OP1	2.20	0.40
50:B3:31:LEU:O	50:B3:32:GLN:HB2	2.20	0.40
53:B6:37:ARG:HH21	57:BA:2286:A:H62	1.70	0.40
55:B8:52:LYS:HE2	57:BA:834:C:H4'	2.02	0.40
55:B8:53:PRO:CG	55:B8:54:GLU:N	2.83	0.40
57:BA:449:A:C2'	57:BA:450:G:H5'	2.51	0.40
57:BA:545:C:C3'	57:BA:547:A:C5'	2.99	0.40
57:BA:548:A:H2'	57:BA:549:G:C5'	2.31	0.40
57:BA:602:G:C6	57:BA:654(U):A:N7	2.89	0.40
57:BA:1021:A:N6	57:BA:1141:U:N3	2.64	0.40
57:BA:1028:A:N6	57:BA:1125:G:H2'	2.36	0.40
57:BA:1204:A:H2	57:BA:1241:A:N1	2.19	0.40
57:BA:1409:C:O2'	57:BA:1410:G:H5'	2.22	0.40
57:BA:2100:G:N3	57:BA:2100:G:H2'	2.36	0.40
57:BA:2115:G:H2'	57:BA:2117:A:N6	2.37	0.40
57:BA:2223:G:H2'	57:BA:2224:G:C5'	2.51	0.40
57:BA:2287:A:C2	57:BA:2346:A:H2	2.39	0.40
1:Ab:137:ARG:HG2	1:Ab:137:ARG:NH1	2.36	0.40
1:Ab:219:VAL:C	1:Ab:222:ILE:HB	2.46	0.40
2:Ac:46:GLU:O	2:Ac:47:LEU:CB	2.69	0.40
2:Ac:52:LEU:H	2:Ac:52:LEU:CD2	2.32	0.40
3:Ad:97:LEU:HD23	3:Ad:97:LEU:C	2.47	0.40
3:Ad:98:GLU:O	3:Ad:103:ASN:ND2	2.50	0.40
4:Ae:7:GLU:HB2	4:Ae:35:GLY:O	2.21	0.40
5:Af:50:TYR:HE1	17:Ar:74:ARG:O	2.04	0.40
6:Ag:68:ASN:O	6:Ag:138:LYS:HE3	2.21	0.40
8:Ai:48:GLU:HG3	8:Ai:101:PHE:CZ	2.55	0.40
12:Am:17:VAL:HG21	22:Aa:1302:U:H5	1.83	0.40
12:Am:108:ARG:HG3	12:Am:108:ARG:NH1	2.36	0.40
15:Ap:5:ARG:HD2	22:Aa:376:G:H5"	2.03	0.40
15:Ap:67:THR:CG2	15:Ap:68:ASP:H	2.24	0.40
16:Aq:17:LYS:NZ	22:Aa:256:U:OP1	2.53	0.40
16:Aq:48:GLU:C	16:Aq:50:LYS:N	2.79	0.40
19:At:38:LYS:HB3	19:At:38:LYS:HE2	1.80	0.40
21:Ay:39:ILE:CB	21:Ay:42:ASN:ND2	2.74	0.40
21:Ay:44:LEU:N	21:Ay:44:LEU:CD2	2.79	0.40
22:Aa:127:G:C2	22:Aa:128:G:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Aa:180:U:C2'	22:Aa:181:G:C5'	2.98	0.40
22:Aa:284:G:H2'	22:Aa:285:G:H8	1.86	0.40
22:Aa:321:A:N6	22:Aa:328:C:O2'	2.44	0.40
22:Aa:586:C:C2'	22:Aa:587:G:H5'	2.51	0.40
22:Aa:998:G:H2'	22:Aa:999:C:C6	2.56	0.40
22:Aa:1124:G:C8	22:Aa:1145:C:C6	3.09	0.40
22:Aa:1319:A:H61	22:Aa:1361:G:N2	2.19	0.40
22:Aa:1424:C:H2'	22:Aa:1425:U:O4'	2.21	0.40
26:AC:186:LEU:C	26:AC:188:ASP:N	2.77	0.40
28:AE:57:LYS:C	28:AE:59:VAL:N	2.79	0.40
28:AE:199:ARG:HB2	28:AE:199:ARG:HH11	1.85	0.40
29:AF:143:ALA:HB1	29:AF:148:LEU:HB2	2.02	0.40
30:AG:5:VAL:O	30:AG:9:ARG:N	2.47	0.40
31:AH:117:PRO:HB3	31:AH:123:PHE:CE1	2.56	0.40
34:AN:87:LEU:O	34:AN:88:GLU:C	2.63	0.40
34:AN:112:LEU:HD12	34:AN:112:LEU:O	2.22	0.40
36:AP:78:PRO:HA	36:AP:110:TYR:HE2	1.80	0.40
37:AQ:18:LYS:HE3	57:AA:862:G:OP1	2.22	0.40
37:AQ:39:PRO:HA	37:AQ:97:VAL:O	2.21	0.40
40:AT:89:VAL:CB	40:AT:91:ARG:HG3	2.50	0.40
41:AU:27:LEU:HB2	57:AA:2020:A:OP1	2.21	0.40
42:AV:82:ARG:HD2	42:AV:82:ARG:N	2.35	0.40
44:AX:60:ARG:HH21	54:A7:47:ARG:CD	2.29	0.40
47:A0:10:THR:HG22	47:A0:11:ARG:N	2.21	0.40
47:A0:41:ARG:HD3	47:A0:41:ARG:HA	1.77	0.40
50:A3:43:ILE:O	50:A3:47:VAL:CG2	2.65	0.40
54:A7:24:THR:HG23	54:A7:27:GLY:HA3	2.02	0.40
55:A8:23:VAL:HA	55:A8:47:LYS:O	2.21	0.40
57:AA:448:U:C4	57:AA:583:G:H1'	2.57	0.40
57:AA:476:G:H4'	57:AA:502:A:N1	2.36	0.40
57:AA:605:C:O2'	57:AA:606:U:H5'	2.21	0.40
57:AA:1022:G:O2'	57:AA:1023:U:OP2	2.33	0.40
57:AA:1047:G:C8	57:AA:1110:G:N1	2.89	0.40
57:AA:1362:C:C2'	57:AA:1363:C:H5'	2.52	0.40
57:AA:1389:G:H2'	57:AA:1390:U:C6	2.56	0.40
57:AA:2030:A:H4'	57:AA:2031:A:C8	2.55	0.40
57:AA:2070:G:C2	57:AA:2442:C:C2	3.09	0.40
57:AA:2189:U:H5'	57:AA:2190:G:OP2	2.21	0.40
57:AA:2223:G:H2'	57:AA:2224:G:C5'	2.49	0.40
57:AA:2307:G:H3'	57:AA:2308:G:C5'	2.51	0.40
1:Bb:83:MET:O	1:Bb:85:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bb:219:VAL:CA	1:Bb:222:ILE:HB	2.51	0.40
2:Bc:11:ARG:HG2	2:Bc:11:ARG:HH11	1.86	0.40
2:Bc:181:ASN:C	2:Bc:182:ILE:HG13	2.45	0.40
3:Bd:22:LYS:CG	3:Bd:26:CYS:SG	3.06	0.40
5:Bf:61:LEU:HB3	5:Bf:62:TRP:H	1.68	0.40
6:Bg:3:ARG:NH2	22:Ba:935:A:C2	2.90	0.40
6:Bg:31:MET:CE	22:Ba:1374:A:H1'	2.51	0.40
6:Bg:118:VAL:HG23	6:Bg:119:ARG:N	2.36	0.40
9:Bj:51:ARG:HB3	22:Ba:1060:C:C5'	2.52	0.40
11:Bl:53:ARG:NH2	22:Ba:522:C:N4	2.67	0.40
11:Bl:115:LYS:HB3	11:Bl:116:SER:H	1.67	0.40
12:Bm:75:ALA:C	12:Bm:77:ASN:N	2.79	0.40
17:Br:57:GLY:O	17:Br:58:LEU:O	2.39	0.40
18:Bs:14:HIS:CD2	22:Ba:1014:A:C5'	3.04	0.40
18:Bs:31:ILE:O	18:Bs:31:ILE:HG12	2.21	0.40
21:By:17:LYS:NZ	22:Ba:960:U:OP1	2.47	0.40
21:By:83:ARG:HA	21:By:83:ARG:HD2	1.85	0.40
22:Ba:189(L):G:H2'	22:Ba:190:U:C6	2.56	0.40
22:Ba:865:A:H5'	22:Ba:1078:U:C5	2.56	0.40
22:Ba:1084:G:H2'	22:Ba:1085:U:C6	2.56	0.40
22:Ba:1340:A:N1	22:Ba:1341:U:O2	2.54	0.40
22:Ba:1466:C:O2'	22:Ba:1467:G:H5'	2.20	0.40
27:BD:69:ARG:C	27:BD:71:ASP:N	2.79	0.40
28:BE:36:ARG:NH1	28:BE:85:ASN:OD1	2.53	0.40
28:BE:145:LYS:HE2	57:BA:574:C:N3	2.36	0.40
29:BF:89:VAL:C	29:BF:91:GLY:N	2.79	0.40
29:BF:90:PHE:HB3	57:BA:588:U:H1'	2.03	0.40
29:BF:172:TRP:CD1	29:BF:172:TRP:H	2.39	0.40
30:BG:173:LEU:HB3	30:BG:178:PHE:CD1	2.56	0.40
32:BI:79:ILE:HA	32:BI:79:ILE:HD13	1.89	0.40
32:BI:98:ALA:O	32:BI:101:LEU:HB2	2.20	0.40
32:BI:112:LYS:HG3	32:BI:116:LEU:CD2	2.51	0.40
32:BI:133:HIS:O	32:BI:133:HIS:CG	2.72	0.40
36:BP:6:LEU:HG	36:BP:9:ASN:CG	2.47	0.40
38:BR:52:ILE:O	38:BR:55:ALA:N	2.53	0.40
39:BS:68:GLN:O	39:BS:70:GLY:N	2.54	0.40
41:BU:92:ARG:HD3	41:BU:94:ASN:HB3	2.02	0.40
42:BV:19:LYS:CG	42:BV:20:LEU:N	2.81	0.40
42:BV:38:LEU:CD2	42:BV:52:VAL:HG11	2.51	0.40
46:BZ:27:VAL:HG23	46:BZ:35:ARG:C	2.46	0.40
46:BZ:61:LEU:HD23	46:BZ:61:LEU:N	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:157:LEU:N	46:BZ:157:LEU:CD2	2.84	0.40
57:BA:18:C:H2'	57:BA:19:C:C6	2.57	0.40
57:BA:140:G:N2	57:BA:1596:A:H4'	2.36	0.40
57:BA:299:A:C5	57:BA:322:A:C2	3.10	0.40
57:BA:365:C:H2'	57:BA:366:C:O4'	2.21	0.40
57:BA:648:G:H1'	57:BA:2351:G:OP1	2.21	0.40
57:BA:839:U:H2'	57:BA:840:C:H6	1.83	0.40
57:BA:1005:C:H2'	57:BA:1006:C:C6	2.56	0.40
57:BA:1789:A:H2'	57:BA:1790:C:O4'	2.21	0.40
57:BA:1804:C:O5'	57:BA:1804:C:H6	2.04	0.40
57:BA:1981:A:H5"	57:BA:1982:C:OP2	2.21	0.40
57:BA:2347:C:H2'	57:BA:2348:U:H6	1.86	0.40
57:BA:2364:C:O2'	57:BA:2365:G:H5'	2.21	0.40
57:BA:2713:A:H3'	57:BA:2714:G:C5'	2.51	0.40
58:BB:48:A:H2'	58:BB:49:C:C6	2.56	0.40
3:Ad:150:GLU:C	3:Ad:152:SER:N	2.79	0.40
4:Ae:6:PHE:HD1	4:Ae:63:ARG:HH12	1.67	0.40
4:Ae:36:ASP:OD2	4:Ae:40:ARG:HB2	2.21	0.40
6:Ag:41:ARG:HG3	6:Ag:41:ARG:NH1	2.33	0.40
6:Ag:118:VAL:O	6:Ag:121:ALA:HB3	2.21	0.40
7:Ah:109:ILE:CG2	7:Ah:137:VAL:HB	2.50	0.40
10:Ak:34:ASP:OD2	10:Ak:34:ASP:C	2.62	0.40
11:Al:90:VAL:C	11:Al:92:ASP:N	2.80	0.40
12:Am:15:VAL:HG23	12:Am:34:LEU:HD21	2.03	0.40
13:An:18:VAL:CG1	22:Aa:1316:G:H4'	2.50	0.40
13:An:42:ILE:HG21	22:Aa:1202:G:C2	2.56	0.40
14:Ao:81:LEU:HD12	14:Ao:85:LEU:HD12	2.02	0.40
16:Aq:17:LYS:NZ	22:Aa:256:U:H5"	2.37	0.40
19:At:40:ALA:HB2	19:At:55:ILE:CG2	2.49	0.40
22:Aa:140:A:H2'	22:Aa:141:A:H8	1.87	0.40
22:Aa:298:A:OP1	22:Aa:298:A:H8	2.03	0.40
22:Aa:439:A:H2'	22:Aa:441:A:O4'	2.21	0.40
22:Aa:601:C:O2'	22:Aa:602:A:H5'	2.22	0.40
22:Aa:644:G:C2'	22:Aa:645:C:H5'	2.52	0.40
22:Aa:811:C:C4'	22:Aa:900:A:H61	2.34	0.40
22:Aa:955:U:H1'	22:Aa:1227:A:H62	1.86	0.40
22:Aa:967:C:H2'	22:Aa:968:A:N7	2.36	0.40
22:Aa:1476:G:H2'	22:Aa:1477:C:H6	1.87	0.40
24:Av:42:G:H2'	24:Av:43:A:C8	2.52	0.40
24:Av:58:A:H4'	24:Av:59:A:OP1	2.22	0.40
27:AD:240:ALA:HA	57:AA:1971:A:N3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AE:89:ASP:O	28:AE:90:THR:O	2.38	0.40
28:AE:101:ARG:CB	28:AE:169:ASN:ND2	2.82	0.40
29:AF:206:ILE:HG22	29:AF:207:GLY:H	1.87	0.40
30:AG:101:ILE:HG22	30:AG:105:LYS:HE3	2.02	0.40
32:AI:111:PRO:CG	32:AI:112:LYS:HD2	2.43	0.40
35:AO:104:ARG:NH1	35:AO:104:ARG:CB	2.85	0.40
36:AP:62:LEU:HG	57:AA:2394:C:OP1	2.20	0.40
37:AQ:19:GLY:O	37:AQ:20:ALA:C	2.64	0.40
38:AR:28:LEU:HA	38:AR:34:ILE:CG1	2.51	0.40
38:AR:38:VAL:HG13	38:AR:42:LYS:HD2	2.02	0.40
38:AR:103:ARG:NH1	38:AR:110:PRO:N	2.69	0.40
39:AS:30:ARG:NH1	39:AS:34:HIS:O	2.55	0.40
40:AT:50:ILE:N	40:AT:50:ILE:CD1	2.85	0.40
41:AU:65:ILE:HG12	41:AU:96:ALA:HB1	2.03	0.40
42:AV:24:LYS:HA	42:AV:92:THR:CG2	2.50	0.40
44:AX:57:LEU:CD1	44:AX:78:LYS:HG2	2.51	0.40
45:AY:30:VAL:HG12	45:AY:31:LEU:N	2.36	0.40
46:AZ:54:HIS:HB3	46:AZ:101:PRO:CD	2.51	0.40
48:A1:43:TYR:HA	48:A1:44:PRO:HD3	1.89	0.40
53:A6:54:ILE:O	53:A6:54:ILE:CD1	2.64	0.40
54:A7:19:ARG:HG2	54:A7:19:ARG:NH1	2.35	0.40
57:AA:18:C:H2'	57:AA:19:C:C6	2.57	0.40
57:AA:244:A:H2'	57:AA:245:G:O4'	2.21	0.40
57:AA:327:G:O2'	57:AA:328:U:H5'	2.22	0.40
57:AA:648:G:H1'	57:AA:2351:G:OP1	2.21	0.40
57:AA:848:G:O6	57:AA:928:G:H2'	2.22	0.40
57:AA:923:C:O2'	57:AA:924:C:H5'	2.21	0.40
57:AA:986:C:O2'	57:AA:987:G:H5'	2.21	0.40
57:AA:1794:U:H2'	57:AA:1795:C:H6	1.87	0.40
57:AA:2163:C:H2'	57:AA:2164:C:O4'	2.21	0.40
57:AA:2627:G:N3	57:AA:2781:A:H2	2.19	0.40
57:AA:2696:U:H2'	57:AA:2697:G:H8	1.85	0.40
2:Bc:37:GLN:C	2:Bc:39:ILE:H	2.29	0.40
2:Bc:118:GLN:O	2:Bc:122:GLU:HG3	2.21	0.40
3:Bd:68:TYR:O	3:Bd:69:GLY:C	2.64	0.40
3:Bd:126:ILE:CG2	3:Bd:127:THR:H	2.34	0.40
4:Be:63:ARG:C	4:Be:65:ASN:H	2.30	0.40
5:Bf:6:VAL:HA	5:Bf:90:VAL:HA	2.03	0.40
5:Bf:61:LEU:HB3	5:Bf:63:TYR:HE2	1.86	0.40
9:Bj:51:ARG:NE	9:Bj:61:GLU:HB2	2.36	0.40
9:Bj:80:LYS:NZ	9:Bj:80:LYS:HB3	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:Bp:55:ARG:O	15:Bp:58:TYR:N	2.55	0.40
21:By:55:LEU:CB	21:By:58:SER:HB3	2.51	0.40
22:Ba:272:C:H2'	22:Ba:273:A:H8	1.86	0.40
22:Ba:285:G:H2'	22:Ba:286:G:H8	1.86	0.40
22:Ba:300:A:H1'	22:Ba:565:U:O2	2.20	0.40
22:Ba:754:C:H3'	22:Ba:754:C:O2	2.21	0.40
22:Ba:1231:G:O2'	22:Ba:1232:U:H5'	2.21	0.40
25:Bw:63:G:H2'	25:Bw:64:G:C8	2.57	0.40
27:BD:68:LYS:HD2	27:BD:70:TRP:CZ2	2.57	0.40
28:BE:165:VAL:O	28:BE:189:PRO:HG3	2.21	0.40
29:BF:100:THR:O	29:BF:100:THR:HG22	2.21	0.40
29:BF:181:LEU:HG	29:BF:186:ILE:HD11	2.03	0.40
37:BQ:41:TRP:HB3	37:BQ:94:VAL:HB	2.03	0.40
37:BQ:125:LEU:C	37:BQ:127:ILE:H	2.30	0.40
38:BR:10:LEU:CB	38:BR:17:ARG:HD3	2.49	0.40
38:BR:94:TYR:CD2	38:BR:94:TYR:N	2.86	0.40
39:BS:24:LEU:CB	39:BS:85:VAL:HG12	2.51	0.40
39:BS:40:ILE:HG22	39:BS:46:VAL:O	2.21	0.40
39:BS:91:PRO:O	39:BS:92:TYR:C	2.64	0.40
40:BT:48:ILE:N	40:BT:48:ILE:CD1	2.83	0.40
40:BT:117:ASP:O	40:BT:118:ARG:C	2.64	0.40
41:BU:74:LEU:HD22	41:BU:74:LEU:C	2.47	0.40
42:BV:24:LYS:HA	42:BV:92:THR:CG2	2.49	0.40
42:BV:98:GLU:OE2	42:BV:100:ARG:NH1	2.55	0.40
43:BW:99:ARG:HH12	57:BA:1262:A:P	2.44	0.40
44:BX:26:TYR:CD2	44:BX:92:LEU:HD12	2.52	0.40
45:BY:84:ARG:HD2	45:BY:97:ARG:CD	2.50	0.40
46:BZ:102:LEU:CD1	46:BZ:171:ILE:HD11	2.51	0.40
47:B0:69:PHE:CE2	57:BA:857:C:H5'	2.56	0.40
48:B1:40:ARG:O	48:B1:40:ARG:HD3	2.21	0.40
48:B1:52:ARG:O	48:B1:56:GLN:O	2.39	0.40
51:B4:39:CYS:O	51:B4:40:HIS:CB	2.69	0.40
52:B5:33:CYS:HB2	52:B5:40:LYS:HE3	2.03	0.40
54:B7:10:ARG:HE	54:B7:14:LYS:HE3	1.86	0.40
57:BA:142:A:H1'	57:BA:1408:C:O4'	2.21	0.40
57:BA:692:C:H2'	57:BA:693:C:H6	1.86	0.40
57:BA:699:A:H4'	57:BA:1634:A:N7	2.35	0.40
57:BA:751:A:C6	57:BA:789:A:C5	3.10	0.40
57:BA:809:G:C6	57:BA:810:U:C4	3.09	0.40
57:BA:923:C:O2'	57:BA:924:C:H5'	2.21	0.40
57:BA:1027:A:C2	57:BA:2488:A:H5'	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:1051:G:C4	57:BA:1052:C:N4	2.90	0.40
57:BA:1138:G:H2'	57:BA:1139:G:O4'	2.22	0.40
57:BA:1155:A:O2'	57:BA:1156:A:H2'	2.22	0.40
57:BA:1192:G:O2'	57:BA:1193:G:H5'	2.21	0.40
57:BA:1516:C:H2'	57:BA:1517:G:H8	1.86	0.40
57:BA:1791:A:OP2	57:BA:1791:A:H8	2.04	0.40
57:BA:1850:G:N2	57:BA:1893:C:H1'	2.37	0.40
57:BA:1862:G:O2'	57:BA:1863:G:H5'	2.21	0.40
57:BA:1888:G:H5'	57:BA:1888:G:N3	2.36	0.40
57:BA:2030:A:H4'	57:BA:2031:A:C8	2.53	0.40
57:BA:2291:U:O2'	57:BA:2374:C:H1'	2.20	0.40
57:BA:2307:G:H3'	57:BA:2308:G:C5'	2.51	0.40
57:BA:2377:A:H2'	57:BA:2378:A:C8	2.56	0.40
57:BA:2397:G:C2	57:BA:2420:C:H1'	2.57	0.40
2:Ac:22:TRP:HB2	2:Ac:23:TYR:H	1.71	0.40
2:Ac:91:LEU:O	2:Ac:95:THR:HB	2.21	0.40
3:Ad:36:ARG:O	3:Ad:38:TYR:N	2.51	0.40
3:Ad:36:ARG:HH12	22:Aa:426:G:P	2.43	0.40
4:Ae:143:ARG:HB3	4:Ae:147:ASP:HB3	2.02	0.40
4:Ae:148:VAL:C	4:Ae:150:ARG:H	2.29	0.40
8:Ai:12:GLU:HG3	22:Aa:1370:G:C5'	2.51	0.40
9:Aj:55:LYS:NZ	22:Aa:963:G:H21	2.20	0.40
10:Ak:15:ALA:HB1	10:Ak:78:GLN:CG	2.45	0.40
10:Ak:111:ASP:O	10:Ak:111:ASP:CG	2.64	0.40
10:Ak:120:ARG:HA	10:Ak:121:PRO:HD3	1.89	0.40
11:Al:62:SER:O	11:Al:64:TYR:N	2.54	0.40
14:Ao:83:GLU:C	14:Ao:85:LEU:N	2.79	0.40
18:As:12:ASP:O	18:As:16:LEU:CD1	2.70	0.40
19:At:73:HIS:O	19:At:74:LYS:C	2.63	0.40
19:At:74:LYS:HB2	19:At:75:ASN:HD22	1.87	0.40
21:Ay:68:ASP:O	21:Ay:69:GLU:C	2.65	0.40
22:Aa:166:G:H2'	22:Aa:167:G:C8	2.56	0.40
22:Aa:189(D):C:H2'	22:Aa:189(E):U:O4'	2.22	0.40
22:Aa:688:G:H2'	22:Aa:689:C:C6	2.52	0.40
22:Aa:977:A:H2'	22:Aa:978:A:H5'	2.02	0.40
22:Aa:1038:C:O2'	22:Aa:1039:C:H5'	2.21	0.40
22:Aa:1062:U:H2'	22:Aa:1063:C:C5	2.56	0.40
22:Aa:1091:U:O2	22:Aa:1093:A:C8	2.75	0.40
22:Aa:1097:C:H2'	22:Aa:1098:C:C6	2.48	0.40
22:Aa:1251:A:O2'	22:Aa:1252:A:H5'	2.22	0.40
22:Aa:1346:A:O4'	22:Aa:1348:U:C2	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Aw:11:A:H2'	25:Aw:12:G:O4'	2.21	0.40
25:Aw:36:U:C4	25:Aw:37:A:C6	3.10	0.40
27:AD:239:ARG:O	57:AA:1971:A:C2	2.72	0.40
28:AE:137:HIS:CB	28:AE:138:PRO:HD2	2.51	0.40
29:AF:89:VAL:CG1	29:AF:90:PHE:H	2.32	0.40
30:AG:131:TYR:CE2	30:AG:133:LEU:HD23	2.47	0.40
31:AH:7:LEU:CD2	31:AH:65:HIS:CE1	3.03	0.40
31:AH:148:ILE:HG22	31:AH:162:ILE:HD12	2.02	0.40
32:AI:14:ASP:O	32:AI:15:VAL:O	2.40	0.40
32:AI:40:THR:O	32:AI:44:LEU:HB2	2.22	0.40
34:AN:36:GLY:C	34:AN:38:HIS:H	2.29	0.40
34:AN:67:LEU:O	34:AN:69:GLN:N	2.49	0.40
34:AN:115:ARG:O	34:AN:118:LYS:HB2	2.22	0.40
36:AP:49:ARG:HH21	36:AP:50:ARG:HH22	1.69	0.40
36:AP:105:LEU:HG	57:AA:626:U:N3	2.37	0.40
37:AQ:27:VAL:CG1	37:AQ:28:ALA:N	2.65	0.40
39:AS:68:GLN:C	39:AS:70:GLY:N	2.74	0.40
40:AT:13:ARG:CZ	40:AT:13:ARG:CA	2.81	0.40
40:AT:50:ILE:CD1	40:AT:64:ARG:HB2	2.51	0.40
42:AV:34:GLU:O	42:AV:36:PRO:HD3	2.20	0.40
43:AW:55:ALA:C	43:AW:57:ASN:H	2.29	0.40
44:AX:7:VAL:HB	44:AX:8:ILE:HD12	2.03	0.40
45:AY:95:LYS:O	45:AY:96:ILE:C	2.64	0.40
49:A2:46:GLN:HG2	49:A2:49:LYS:NZ	2.37	0.40
51:A4:36:CYS:SG	51:A4:37:SER:N	2.94	0.40
54:A7:34:ARG:HH12	54:A7:39:ARG:CD	2.35	0.40
55:A8:53:PRO:CG	55:A8:54:GLU:N	2.84	0.40
55:A8:61:LEU:HD12	55:A8:62:LEU:N	2.35	0.40
57:AA:140:G:N2	57:AA:1596:A:H4'	2.36	0.40
57:AA:467:G:O2'	57:AA:468:G:H5'	2.21	0.40
57:AA:1451:C:N3	57:AA:1459:G:O6	2.54	0.40
57:AA:1668:A:C8	57:AA:1674:G:C6	3.09	0.40
57:AA:2136:C:H2'	57:AA:2137:C:C5	2.57	0.40
57:AA:2422:A:H8	57:AA:2422:A:H3'	1.86	0.40
57:AA:2821:A:H2'	57:AA:2822:G:O4'	2.22	0.40
1:Bb:69:LEU:HA	1:Bb:91:PRO:O	2.22	0.40
2:Bc:43:LEU:HD12	2:Bc:55:VAL:CG1	2.50	0.40
2:Bc:91:LEU:O	2:Bc:95:THR:HB	2.21	0.40
2:Bc:182:ILE:HD11	2:Bc:203:PHE:CD1	2.56	0.40
3:Bd:6:GLY:O	3:Bd:7:PRO:C	2.65	0.40
6:Bg:78:ARG:O	6:Bg:84:ASN:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bg:85:TYR:HD1	6:Bg:154:TYR:CE1	2.36	0.40
9:Bj:32:ALA:N	9:Bj:78:ASN:HD21	2.03	0.40
11:Bl:73:GLU:HG2	22:Ba:521:G:H4'	2.02	0.40
12:Bm:3:ARG:O	51:B4:34:GLU:CG	2.69	0.40
12:Bm:84:ILE:O	12:Bm:84:ILE:CG2	2.69	0.40
15:Bp:9:PHE:HB3	22:Ba:625:G:OP1	2.22	0.40
15:Bp:52:ASP:OD2	15:Bp:52:ASP:C	2.64	0.40
18:Bs:45:VAL:HG12	18:Bs:64:GLU:N	2.30	0.40
18:Bs:45:VAL:CG1	18:Bs:64:GLU:H	2.28	0.40
22:Ba:82:U:H2'	22:Ba:83:U:C5	2.55	0.40
22:Ba:986:A:H2'	22:Ba:987:G:C8	2.56	0.40
22:Ba:1002:G:H2'	22:Ba:1003:G:C8	2.56	0.40
22:Ba:1004:A:H5"	22:Ba:1025:U:H3	1.82	0.40
22:Ba:1023:G:H2'	22:Ba:1024:G:H5'	2.02	0.40
22:Ba:1346:A:O4'	22:Ba:1348:U:C2	2.74	0.40
25:Bw:14:A:H2'	25:Bw:15:G:H5'	2.03	0.40
26:BC:30:VAL:HG11	26:BC:42:VAL:HG13	2.03	0.40
26:BC:48:LEU:HD11	26:BC:172:ILE:CG2	2.47	0.40
28:BE:6:GLY:HA2	28:BE:27:LEU:O	2.22	0.40
29:BF:83:PHE:O	29:BF:84:VAL:CB	2.69	0.40
29:BF:173:VAL:HG12	29:BF:174:VAL:N	2.36	0.40
30:BG:12:TYR:HA	30:BG:16:ARG:CG	2.51	0.40
30:BG:96:ARG:HE	30:BG:97:ASP:HB2	1.85	0.40
30:BG:130:ASN:ND2	30:BG:160:VAL:CG1	2.77	0.40
32:BI:25:TYR:O	32:BI:29:TYR:HB3	2.21	0.40
32:BI:83:ALA:C	32:BI:89:TYR:CE2	3.00	0.40
34:BN:66:LYS:NZ	57:BA:1140:C:OP2	2.52	0.40
37:BQ:69:PHE:CD1	37:BQ:70:PRO:HD2	2.57	0.40
38:BR:29:LEU:HB3	38:BR:75:LEU:HD11	2.03	0.40
38:BR:38:VAL:HG22	38:BR:112:ALA:HB2	2.02	0.40
39:BS:101:LEU:H	39:BS:101:LEU:HD12	1.86	0.40
41:BU:83:LEU:HA	41:BU:86:ALA:HB3	2.03	0.40
43:BW:34:ASN:ND2	52:B5:39:MET:HG3	2.36	0.40
43:BW:36:LEU:HD13	43:BW:48:ALA:HA	2.03	0.40
55:B8:33:ASN:O	57:BA:2420:C:P	2.79	0.40
55:B8:54:GLU:HG2	55:B8:57:ARG:HH21	1.85	0.40
57:BA:74:A:C5'	57:BA:75:G:O4'	2.69	0.40
57:BA:201:C:H2'	57:BA:202:U:H5'	2.02	0.40
57:BA:272(I):U:C4	57:BA:272(J):C:C5	3.10	0.40
57:BA:491:G:C4	57:BA:492:A:C8	3.10	0.40
57:BA:614(A):U:H4'	57:BA:614(B):G:H5"	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BA:653:A:H5'	57:BA:654:A:OP2	2.21	0.40
57:BA:2001:A:H2'	57:BA:2002:G:C8	2.56	0.40
57:BA:2123:G:H2'	57:BA:2124:G:C8	2.57	0.40
57:BA:2259:G:N2	57:BA:2282:G:C2	2.90	0.40
57:BA:2358:G:C5	57:BA:2359:C:C5	3.10	0.40
57:BA:2732:G:C2'	57:BA:2733:A:H5'	2.52	0.40
57:BA:2821:A:H2'	57:BA:2822:G:C8	2.56	0.40
57:BA:2828:C:O2'	57:BA:2829:C:H5'	2.20	0.40
58:BB:105:A:H2'	58:BB:106:G:C5'	2.52	0.40
2:Ac:16:ARG:HH11	2:Ac:16:ARG:HA	1.86	0.40
2:Ac:63:ASN:C	2:Ac:64:VAL:HG23	2.46	0.40
2:Ac:154:SER:N	2:Ac:197:GLY:O	2.54	0.40
4:Ae:47:LYS:HD3	4:Ae:47:LYS:N	2.36	0.40
4:Ae:144:THR:C	4:Ae:146:ALA:N	2.79	0.40
6:Ag:118:VAL:HG23	6:Ag:119:ARG:N	2.37	0.40
8:Ai:75:ASP:O	8:Ai:78:LYS:N	2.54	0.40
8:Ai:114:TYR:HD1	9:Aj:60:ARG:CG	2.32	0.40
9:Aj:70:ARG:HH22	22:Aa:1152:A:C5'	2.34	0.40
12:Am:61:GLU:HA	12:Am:66:LEU:HD11	2.03	0.40
13:An:21:TYR:CE2	13:An:23:ARG:NH2	2.89	0.40
14:Ao:66:LEU:CD1	14:Ao:66:LEU:N	2.81	0.40
15:Ap:21:VAL:HG12	15:Ap:34:GLU:O	2.21	0.40
17:Ar:69:THR:O	17:Ar:72:ARG:HB2	2.21	0.40
19:At:96:GLY:O	19:At:97:ALA:O	2.40	0.40
22:Aa:237:C:H2'	22:Aa:238:G:H8	1.87	0.40
22:Aa:490:G:H2'	22:Aa:491:G:C8	2.56	0.40
22:Aa:1030(B):C:H2'	22:Aa:1030(C):G:O4'	2.21	0.40
22:Aa:1122:U:H2'	22:Aa:1123:A:H8	1.86	0.40
22:Aa:1126:U:O2'	22:Aa:1127:G:H5'	2.21	0.40
22:Aa:1334:G:H5'	22:Aa:1335:C:OP2	2.22	0.40
25:Aw:59:A:H2'	25:Aw:60:U:C5'	2.50	0.40
26:AC:16:ASP:N	26:AC:21:TYR:OH	2.50	0.40
27:AD:10:THR:HG23	27:AD:10:THR:O	2.20	0.40
28:AE:144:ARG:HD2	57:AA:2572:A:N7	2.37	0.40
30:AG:132:ASN:OD1	30:AG:158:ALA:HA	2.21	0.40
34:AN:126:PRO:HB2	34:AN:127:ASP:H	1.66	0.40
37:AQ:45:GLN:H	37:AQ:45:GLN:NE2	2.19	0.40
38:AR:28:LEU:HD11	38:AR:116:LEU:HG	2.03	0.40
38:AR:53:HIS:CD2	57:AA:2840:C:H5"	2.57	0.40
39:AS:48:LEU:N	39:AS:48:LEU:CD1	2.84	0.40
41:AU:16:LYS:O	41:AU:20:LEU:CD2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AU:20:LEU:N	41:AU:20:LEU:HD22	2.36	0.40
43:AW:93:ALA:HB2	57:AA:1614:A:N7	2.37	0.40
48:A1:67:ILE:HG13	48:A1:67:ILE:H	1.67	0.40
57:AA:27:G:N2	57:AA:513:A:OP2	2.55	0.40
57:AA:142(A):C:O2'	57:AA:143:G:H5'	2.21	0.40
57:AA:198:C:H5'	57:AA:2244:U:OP1	2.22	0.40
57:AA:299:A:C5	57:AA:322:A:C2	3.10	0.40
57:AA:319:C:O2'	57:AA:320:A:H5'	2.22	0.40
57:AA:528:A:H2	57:AA:2043:C:H5'	1.85	0.40
57:AA:613:G:C2	57:AA:615:G:C5	3.09	0.40
57:AA:709:U:H2'	57:AA:710:G:H8	1.82	0.40
57:AA:889:C:O2'	57:AA:890:A:P	2.79	0.40
57:AA:1006:C:C2	57:AA:1138:G:N2	2.89	0.40
57:AA:1048:A:H4'	57:AA:1049:C:OP1	2.20	0.40
57:AA:1341:U:C5	57:AA:1395:A:H2	2.39	0.40
57:AA:1509(A):A:O2'	57:AA:1509(B):A:H5'	2.21	0.40
57:AA:1755:A:H2'	57:AA:1756:G:H5'	2.04	0.40
57:AA:2100:G:N3	57:AA:2100:G:H2'	2.37	0.40
57:AA:2115:G:H2'	57:AA:2117:A:N6	2.35	0.40
57:AA:2123:G:H2'	57:AA:2124:G:C8	2.56	0.40
57:AA:2307:G:N3	57:AA:2307:G:H3'	2.37	0.40
57:AA:2350:C:O2'	57:AA:2351:G:H5'	2.22	0.40
57:AA:2521:C:O2	57:AA:2521:C:H2'	2.20	0.40
58:AB:106:G:C2	58:AB:107:G:C8	3.10	0.40
2:Bc:19:GLU:HG2	2:Bc:40:ARG:NH2	2.30	0.40
3:Bd:104:VAL:CG2	3:Bd:140:VAL:HG21	2.45	0.40
4:Be:88:LYS:HB3	4:Be:123:LEU:O	2.21	0.40
5:Bf:97:PHE:HB2	17:Br:32:ARG:HH21	1.86	0.40
10:Bk:63:LEU:HD22	10:Bk:63:LEU:N	2.37	0.40
10:Bk:98:LEU:O	10:Bk:101:SER:OG	2.36	0.40
15:Bp:25:ARG:HG3	15:Bp:25:ARG:HH11	1.87	0.40
16:Bq:75:ARG:HG3	16:Bq:75:ARG:NH1	2.36	0.40
21:By:30:LEU:O	21:By:34:LEU:HG	2.21	0.40
22:Ba:522:C:O2'	22:Ba:523:A:H5'	2.21	0.40
22:Ba:685:G:HO2'	22:Ba:686:U:H5'	1.83	0.40
22:Ba:955:U:H1'	22:Ba:1227:A:H62	1.86	0.40
22:Ba:1026:G:N3	22:Ba:1026:G:C2'	2.84	0.40
22:Ba:1030(B):C:H2'	22:Ba:1030(C):G:O4'	2.22	0.40
25:Bw:59:A:H2'	25:Bw:60:U:C5'	2.49	0.40
26:BC:225:ILE:HD12	26:BC:225:ILE:H	1.87	0.40
30:BG:15:VAL:O	30:BG:16:ARG:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:41:GLN:HE21	30:BG:155:MET:HB3	1.87	0.40
32:BI:48:GLU:HA	32:BI:51:ILE:HB	2.03	0.40
32:BI:62:LYS:HE3	32:BI:134:PRO:HD3	2.03	0.40
32:BI:86:THR:O	32:BI:87:LYS:CB	2.68	0.40
32:BI:116:LEU:HG	32:BI:117:GLU:H	1.86	0.40
36:BP:49:ARG:NH2	36:BP:50:ARG:HH22	2.20	0.40
37:BQ:12:GLN:NE2	37:BQ:73:PRO:HD2	2.37	0.40
38:BR:57:ARG:HH21	38:BR:59:ASP:CG	2.30	0.40
40:BT:98:LYS:NZ	57:BA:2847:U:OP1	2.55	0.40
41:BU:16:LYS:O	41:BU:20:LEU:CD2	2.69	0.40
43:BW:43:GLY:O	43:BW:44:ALA:C	2.65	0.40
44:BX:30:VAL:HG23	44:BX:31:HIS:N	2.36	0.40
45:BY:7:VAL:HB	45:BY:8:LYS:HZ2	1.82	0.40
45:BY:96:ILE:O	45:BY:97:ARG:CB	2.60	0.40
46:BZ:89:PHE:CD2	46:BZ:90:VAL:N	2.89	0.40
46:BZ:128:VAL:CG2	46:BZ:132:ASN:O	2.68	0.40
46:BZ:170:THR:O	46:BZ:171:ILE:C	2.64	0.40
49:B2:47:ASN:ND2	57:BA:94(A):G:N2	2.58	0.40
51:B4:31:ILE:HG22	51:B4:33:VAL:HG23	2.03	0.40
53:B6:15:GLU:OE1	53:B6:41:PRO:CB	2.70	0.40
55:B8:33:ASN:ND2	55:B8:33:ASN:N	2.35	0.40
56:B9:13:LYS:HD3	56:B9:28:GLU:OE1	2.21	0.40
57:BA:272(I):U:C4	57:BA:272(J):C:H5	2.39	0.40
57:BA:1051:G:C6	57:BA:1052:C:N4	2.89	0.40
57:BA:1341:U:C5	57:BA:1395:A:H2	2.39	0.40
57:BA:1465:G:C2	57:BA:1466:G:C8	3.09	0.40
57:BA:1469:A:H2'	57:BA:1470:G:C8	2.57	0.40
57:BA:2230:G:H2'	57:BA:2231:C:H6	1.86	0.40
57:BA:2296:U:O2	57:BA:2333:A:N3	2.55	0.40
57:BA:2516:G:C5	57:BA:2517:C:C4	3.09	0.40
57:BA:2629:A:H5'	57:BA:2629:A:N3	2.37	0.40
57:BA:2811:G:C2'	57:BA:2812:G:H5'	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ab	232/256 (91%)	149 (64%)	48 (21%)	35 (15%)	0	2
1	Bb	232/256 (91%)	148 (64%)	52 (22%)	32 (14%)	0	3
2	Ac	204/239 (85%)	132 (65%)	43 (21%)	29 (14%)	0	3
2	Bc	204/239 (85%)	134 (66%)	41 (20%)	29 (14%)	0	3
3	Ad	206/209 (99%)	131 (64%)	52 (25%)	23 (11%)	0	4
3	Bd	206/209 (99%)	132 (64%)	51 (25%)	23 (11%)	0	4
4	Ae	148/162 (91%)	105 (71%)	24 (16%)	19 (13%)	0	3
4	Be	148/162 (91%)	104 (70%)	23 (16%)	21 (14%)	0	3
5	Af	99/101 (98%)	67 (68%)	25 (25%)	7 (7%)	1	10
5	Bf	99/101 (98%)	66 (67%)	26 (26%)	7 (7%)	1	10
6	Ag	153/156 (98%)	108 (71%)	31 (20%)	14 (9%)	0	6
6	Bg	153/156 (98%)	106 (69%)	33 (22%)	14 (9%)	0	6
7	Ah	136/138 (99%)	97 (71%)	32 (24%)	7 (5%)	1	15
7	Bh	136/138 (99%)	97 (71%)	33 (24%)	6 (4%)	2	18
8	Ai	125/128 (98%)	83 (66%)	24 (19%)	18 (14%)	0	3
8	Bi	125/128 (98%)	82 (66%)	25 (20%)	18 (14%)	0	3
9	Aj	96/105 (91%)	76 (79%)	13 (14%)	7 (7%)	1	10
9	Bj	96/105 (91%)	76 (79%)	13 (14%)	7 (7%)	1	10
10	Ak	117/129 (91%)	88 (75%)	22 (19%)	7 (6%)	1	13
10	Bk	117/129 (91%)	87 (74%)	23 (20%)	7 (6%)	1	13
11	Al	122/132 (92%)	82 (67%)	25 (20%)	15 (12%)	0	4
11	Bl	122/132 (92%)	82 (67%)	24 (20%)	16 (13%)	0	3
12	Am	116/126 (92%)	58 (50%)	28 (24%)	30 (26%)	0	0
12	Bm	116/126 (92%)	66 (57%)	25 (22%)	25 (22%)	0	1
13	An	58/61 (95%)	38 (66%)	10 (17%)	10 (17%)	0	2
13	Bn	58/61 (95%)	37 (64%)	11 (19%)	10 (17%)	0	2
14	Ao	86/89 (97%)	52 (60%)	24 (28%)	10 (12%)	0	4
14	Bo	86/89 (97%)	52 (60%)	25 (29%)	9 (10%)	0	5
15	Ap	81/88 (92%)	55 (68%)	20 (25%)	6 (7%)	1	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
15	Bp	81/88 (92%)	55 (68%)	23 (28%)	3 (4%)	2 21
16	Aq	97/105 (92%)	74 (76%)	18 (19%)	5 (5%)	1 15
16	Bq	97/105 (92%)	73 (75%)	19 (20%)	5 (5%)	1 15
17	Ar	68/88 (77%)	43 (63%)	20 (29%)	5 (7%)	1 9
17	Br	68/88 (77%)	42 (62%)	21 (31%)	5 (7%)	1 9
18	As	76/93 (82%)	43 (57%)	20 (26%)	13 (17%)	0 2
18	Bs	76/93 (82%)	43 (57%)	20 (26%)	13 (17%)	0 2
19	At	97/106 (92%)	60 (62%)	25 (26%)	12 (12%)	0 4
19	Bt	97/106 (92%)	60 (62%)	25 (26%)	12 (12%)	0 4
20	Au	22/27 (82%)	13 (59%)	6 (27%)	3 (14%)	0 3
20	Bu	22/27 (82%)	12 (54%)	7 (32%)	3 (14%)	0 3
21	Ay	92/95 (97%)	51 (55%)	24 (26%)	17 (18%)	0 1
21	By	92/95 (97%)	58 (63%)	20 (22%)	14 (15%)	0 2
26	AC	116/229 (51%)	87 (75%)	25 (22%)	4 (3%)	3 23
26	BC	116/229 (51%)	86 (74%)	26 (22%)	4 (3%)	3 23
27	AD	269/276 (98%)	187 (70%)	50 (19%)	32 (12%)	0 4
27	BD	269/276 (98%)	190 (71%)	50 (19%)	29 (11%)	0 5
28	AE	202/206 (98%)	138 (68%)	35 (17%)	29 (14%)	0 3
28	BE	202/206 (98%)	140 (69%)	34 (17%)	28 (14%)	0 3
29	AF	205/210 (98%)	148 (72%)	29 (14%)	28 (14%)	0 3
29	BF	205/210 (98%)	148 (72%)	30 (15%)	27 (13%)	0 3
30	AG	179/182 (98%)	98 (55%)	47 (26%)	34 (19%)	0 1
30	BG	179/182 (98%)	99 (55%)	42 (24%)	38 (21%)	0 1
31	AH	162/180 (90%)	97 (60%)	36 (22%)	29 (18%)	0 1
31	BH	162/180 (90%)	97 (60%)	36 (22%)	29 (18%)	0 1
32	AI	143/148 (97%)	75 (52%)	44 (31%)	24 (17%)	0 2
32	BI	143/148 (97%)	76 (53%)	40 (28%)	27 (19%)	0 1
33	AJ	128/173 (74%)	46 (36%)	43 (34%)	39 (30%)	0 0
33	BJ	128/173 (74%)	40 (31%)	36 (28%)	52 (41%)	0 0
34	AN	136/140 (97%)	96 (71%)	23 (17%)	17 (12%)	0 4
34	BN	136/140 (97%)	98 (72%)	21 (15%)	17 (12%)	0 4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
35	AO	120/122 (98%)	103 (86%)	11 (9%)	6 (5%)	1 16
35	BO	120/122 (98%)	103 (86%)	12 (10%)	5 (4%)	2 19
36	AP	144/150 (96%)	75 (52%)	37 (26%)	32 (22%)	0 0
36	BP	144/150 (96%)	75 (52%)	38 (26%)	31 (22%)	0 1
37	AQ	138/141 (98%)	105 (76%)	20 (14%)	13 (9%)	0 6
37	BQ	138/141 (98%)	105 (76%)	18 (13%)	15 (11%)	0 5
38	AR	115/118 (98%)	82 (71%)	21 (18%)	12 (10%)	0 5
38	BR	115/118 (98%)	83 (72%)	20 (17%)	12 (10%)	0 5
39	AS	96/112 (86%)	45 (47%)	29 (30%)	22 (23%)	0 0
39	BS	96/112 (86%)	45 (47%)	29 (30%)	22 (23%)	0 0
40	AT	133/146 (91%)	87 (65%)	19 (14%)	27 (20%)	0 1
40	BT	133/146 (91%)	87 (65%)	20 (15%)	26 (20%)	0 1
41	AU	115/118 (98%)	86 (75%)	23 (20%)	6 (5%)	1 15
41	BU	115/118 (98%)	85 (74%)	23 (20%)	7 (6%)	1 13
42	AV	99/101 (98%)	66 (67%)	22 (22%)	11 (11%)	0 4
42	BV	99/101 (98%)	67 (68%)	20 (20%)	12 (12%)	0 4
43	AW	111/113 (98%)	85 (77%)	16 (14%)	10 (9%)	0 6
43	BW	111/113 (98%)	86 (78%)	14 (13%)	11 (10%)	0 6
44	AX	90/96 (94%)	65 (72%)	22 (24%)	3 (3%)	3 24
44	BX	90/96 (94%)	64 (71%)	24 (27%)	2 (2%)	5 30
45	AY	98/110 (89%)	45 (46%)	23 (24%)	30 (31%)	0 0
45	BY	98/110 (89%)	46 (47%)	21 (21%)	31 (32%)	0 0
46	AZ	182/206 (88%)	104 (57%)	46 (25%)	32 (18%)	0 1
46	BZ	182/206 (88%)	105 (58%)	46 (25%)	31 (17%)	0 2
47	A0	82/85 (96%)	62 (76%)	15 (18%)	5 (6%)	1 13
47	B0	82/85 (96%)	61 (74%)	16 (20%)	5 (6%)	1 13
48	A1	91/98 (93%)	66 (72%)	15 (16%)	10 (11%)	0 5
48	B1	91/98 (93%)	71 (78%)	11 (12%)	9 (10%)	0 6
49	A2	69/72 (96%)	41 (59%)	18 (26%)	10 (14%)	0 3
49	B2	69/72 (96%)	47 (68%)	16 (23%)	6 (9%)	0 7
50	A3	57/60 (95%)	48 (84%)	7 (12%)	2 (4%)	3 23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	B3	57/60 (95%)	48 (84%)	7 (12%)	2 (4%)	3 23
51	A4	55/71 (78%)	22 (40%)	20 (36%)	13 (24%)	0 0
51	B4	55/71 (78%)	23 (42%)	19 (34%)	13 (24%)	0 0
52	A5	53/60 (88%)	37 (70%)	8 (15%)	8 (15%)	0 2
52	B5	53/60 (88%)	37 (70%)	8 (15%)	8 (15%)	0 2
53	A6	48/54 (89%)	22 (46%)	13 (27%)	13 (27%)	0 0
53	B6	48/54 (89%)	22 (46%)	13 (27%)	13 (27%)	0 0
54	A7	45/49 (92%)	42 (93%)	2 (4%)	1 (2%)	5 30
54	B7	45/49 (92%)	42 (93%)	2 (4%)	1 (2%)	5 30
55	A8	61/65 (94%)	35 (57%)	15 (25%)	11 (18%)	0 1
55	B8	61/65 (94%)	35 (57%)	15 (25%)	11 (18%)	0 1
56	A9	35/37 (95%)	25 (71%)	9 (26%)	1 (3%)	3 26
56	B9	35/37 (95%)	25 (71%)	9 (26%)	1 (3%)	3 26
All	All	12016/13122 (92%)	7873 (66%)	2533 (21%)	1610 (13%)	0 3

All (1610) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Ab	15	VAL
1	Ab	18	GLY
1	Ab	75	LYS
1	Ab	123	ALA
1	Ab	143	GLU
1	Ab	165	VAL
1	Ab	195	ASP
1	Ab	229	VAL
1	Ab	230	VAL
1	Ab	238	LEU
1	Ab	239	VAL
2	Ac	15	THR
2	Ac	47	LEU
2	Ac	73	PRO
2	Ac	108	ASN
2	Ac	154	SER
2	Ac	156	ARG
3	Ad	30	LYS
3	Ad	40	PRO

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Mol	Chain	Res	Type
3	Ad	47	ARG
3	Ad	129	ASN
3	Ad	179	GLU
4	Ae	21	ALA
4	Ae	37	ARG
4	Ae	70	PRO
5	Af	40	VAL
5	Af	43	LEU
5	Af	62	TRP
5	Af	81	ILE
5	Af	82	ARG
6	Ag	4	ARG
6	Ag	39	ALA
8	Ai	41	VAL
8	Ai	44	VAL
8	Ai	89	ASN
8	Ai	103	THR
8	Ai	105	ASP
8	Ai	117	HIS
9	Aj	51	ARG
9	Aj	57	LYS
10	Ak	25	TYR
10	Ak	107	SER
11	Al	17	LYS
11	Al	23	LYS
11	Al	46	LYS
11	Al	47	LYS
11	Al	79	GLU
11	Al	91	LYS
11	Al	115	LYS
12	Am	4	ILE
12	Am	21	TYR
12	Am	64	TRP
12	Am	66	LEU
12	Am	69	GLU
12	Am	71	ARG
12	Am	72	ALA
12	Am	73	GLU
12	Am	83	ASP
12	Am	86	CYS
12	Am	106	ASN
12	Am	107	ALA

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Mol	Chain	Res	Type
12	Am	108	ARG
12	Am	113	PRO
12	Am	117	VAL
13	An	15	LYS
13	An	16	PHE
13	An	26	ARG
13	An	52	GLN
16	Aq	68	ARG
16	Aq	99	SER
17	Ar	37	VAL
18	As	10	PHE
18	As	26	GLY
18	As	28	LYS
18	As	64	GLU
18	As	67	VAL
19	At	9	ASN
19	At	48	LYS
19	At	101	GLY
19	At	103	GLY
20	Au	3	LYS
21	Ay	6	ASP
21	Ay	51	TYR
21	Ay	56	ARG
21	Ay	78	VAL
21	Ay	83	ARG
26	AC	220	GLY
27	AD	25	THR
27	AD	27	THR
27	AD	36	PRO
27	AD	123	ALA
27	AD	125	ILE
27	AD	127	VAL
27	AD	169	GLU
27	AD	225	ALA
27	AD	241	PRO
27	AD	245	PRO
27	AD	246	PRO
27	AD	271	ILE
28	AE	53	PRO
28	AE	54	GLN
28	AE	55	ASN
28	AE	61	ARG

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Mol	Chain	Res	Type
28	AE	64	LYS
28	AE	68	ALA
28	AE	69	LYS
28	AE	77	ILE
28	AE	90	THR
28	AE	118	LYS
28	AE	189	PRO
28	AE	203	LYS
29	AF	21	ALA
29	AF	27	GLU
29	AF	59	TYR
29	AF	89	VAL
29	AF	133	ASN
29	AF	136	THR
30	AG	4	ASP
30	AG	48	GLU
30	AG	49	ASP
30	AG	63	ILE
30	AG	78	SER
30	AG	82	LEU
30	AG	97	ASP
30	AG	110	ALA
30	AG	115	ARG
30	AG	117	PHE
30	AG	118	ARG
30	AG	122	PRO
30	AG	126	ASP
30	AG	159	VAL
31	AH	8	PRO
31	AH	12	PRO
31	AH	24	VAL
31	AH	83	TYR
31	AH	92	ILE
31	AH	138	LYS
31	AH	154	PRO
31	AH	155	SER
31	AH	156	ALA
31	AH	159	GLU
31	AH	160	LYS
31	AH	165	ALA
32	AI	12	LEU
32	AI	15	VAL

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Mol	Chain	Res	Type
32	AI	71	ILE
32	AI	76	THR
32	AI	87	LYS
32	AI	92	VAL
32	AI	99	GLU
32	AI	105	HIS
32	AI	120	ILE
32	AI	132	PRO
33	AJ	33	PRO
33	AJ	43	ALA
33	AJ	54	ALA
33	AJ	56	ASN
33	AJ	58	LEU
33	AJ	68	LEU
33	AJ	70	GLU
33	AJ	85	ASP
33	AJ	87	VAL
33	AJ	100	ASN
33	AJ	101	PRO
33	AJ	105	PRO
33	AJ	108	LYS
33	AJ	109	SER
33	AJ	112	LEU
33	AJ	117	LEU
33	AJ	120	LYS
34	AN	4	TYR
34	AN	42	TRP
34	AN	58	ASP
34	AN	60	ILE
34	AN	126	PRO
34	AN	134	ARG
35	AO	27	GLY
35	AO	29	ASN
35	AO	48	PRO
36	AP	14	LYS
36	AP	17	LYS
36	AP	19	VAL
36	AP	31	ALA
36	AP	58	THR
36	AP	89	ALA
36	AP	103	ALA
36	AP	111	ARG

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Mol	Chain	Res	Type
37	AQ	2	LEU
37	AQ	27	VAL
37	AQ	135	ASP
38	AR	8	ARG
38	AR	12	ARG
38	AR	58	GLY
39	AS	13	ARG
39	AS	23	ARG
39	AS	24	LEU
39	AS	35	ILE
39	AS	59	LYS
39	AS	82	ILE
39	AS	90	GLY
39	AS	92	TYR
39	AS	97	ARG
39	AS	100	ALA
39	AS	107	GLU
40	AT	2	ASN
40	AT	3	ARG
40	AT	24	PRO
40	AT	26	ASP
40	AT	28	VAL
40	AT	30	VAL
40	AT	35	LYS
40	AT	55	ASN
40	AT	58	ASN
40	AT	80	SER
40	AT	91	ARG
40	AT	107	ASP
41	AU	91	ASP
41	AU	93	LYS
42	AV	18	LEU
42	AV	46	VAL
42	AV	53	GLU
43	AW	10	VAL
43	AW	11	ARG
43	AW	60	ASN
43	AW	111	HIS
45	AY	5	MET
45	AY	7	VAL
45	AY	24	VAL
45	AY	27	VAL

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Mol	Chain	Res	Type
45	AY	38	ILE
45	AY	45	VAL
45	AY	60	PHE
45	AY	66	PRO
45	AY	77	PRO
45	AY	78	ALA
45	AY	90	LEU
45	AY	91	GLU
45	AY	96	ILE
45	AY	97	ARG
46	AZ	5	LEU
46	AZ	31	ARG
46	AZ	42	VAL
46	AZ	134	PRO
46	AZ	136	PHE
46	AZ	140	ASP
46	AZ	146	ILE
46	AZ	163	LEU
46	AZ	169	GLU
46	AZ	177	PRO
46	AZ	179	ASP
47	A0	17	GLN
47	A0	74	ARG
48	A1	53	VAL
48	A1	54	ALA
48	A1	58	ILE
48	A1	93	GLU
49	A2	43	GLN
49	A2	45	SER
49	A2	48	HIS
49	A2	70	GLN
51	A4	26	SER
51	A4	40	HIS
51	A4	43	TYR
51	A4	44	THR
52	A5	35	GLU
52	A5	36	CYS
52	A5	49	CYS
52	A5	51	TYR
52	A5	52	TYR
53	A6	9	LEU
53	A6	18	ARG

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Mol	Chain	Res	Type
53	A6	27	LYS
53	A6	28	ARG
53	A6	31	PRO
53	A6	44	ARG
53	A6	48	VAL
55	A8	33	ASN
55	A8	34	TRP
55	A8	43	GLN
1	Bb	15	VAL
1	Bb	18	GLY
1	Bb	75	LYS
1	Bb	123	ALA
1	Bb	143	GLU
1	Bb	165	VAL
1	Bb	195	ASP
1	Bb	229	VAL
1	Bb	230	VAL
1	Bb	238	LEU
1	Bb	239	VAL
2	Bc	15	THR
2	Bc	47	LEU
2	Bc	61	ALA
2	Bc	73	PRO
2	Bc	108	ASN
2	Bc	154	SER
2	Bc	156	ARG
3	Bd	30	LYS
3	Bd	40	PRO
3	Bd	47	ARG
3	Bd	129	ASN
4	Be	21	ALA
4	Be	37	ARG
4	Be	70	PRO
5	Bf	40	VAL
5	Bf	43	LEU
5	Bf	62	TRP
5	Bf	81	ILE
6	Bg	4	ARG
6	Bg	39	ALA
8	Bi	41	VAL
8	Bi	44	VAL
8	Bi	89	ASN

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Mol	Chain	Res	Type
8	Bi	103	THR
8	Bi	105	ASP
8	Bi	117	HIS
9	Bj	51	ARG
9	Bj	57	LYS
10	Bk	25	TYR
10	Bk	107	SER
11	Bl	17	LYS
11	Bl	23	LYS
11	Bl	46	LYS
11	Bl	47	LYS
11	Bl	79	GLU
11	Bl	115	LYS
12	Bm	4	ILE
12	Bm	21	TYR
12	Bm	63	THR
12	Bm	64	TRP
12	Bm	66	LEU
12	Bm	67	GLU
12	Bm	69	GLU
12	Bm	71	ARG
12	Bm	72	ALA
12	Bm	83	ASP
12	Bm	86	CYS
12	Bm	106	ASN
12	Bm	107	ALA
12	Bm	108	ARG
12	Bm	113	PRO
13	Bn	15	LYS
13	Bn	16	PHE
13	Bn	26	ARG
13	Bn	52	GLN
16	Bq	68	ARG
16	Bq	99	SER
17	Br	37	VAL
18	Bs	10	PHE
18	Bs	26	GLY
18	Bs	28	LYS
18	Bs	64	GLU
18	Bs	67	VAL
19	Bt	9	ASN
19	Bt	48	LYS

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Mol	Chain	Res	Type
19	Bt	71	THR
19	Bt	101	GLY
19	Bt	103	GLY
20	Bu	3	LYS
21	By	9	GLU
21	By	84	SER
26	BC	220	GLY
27	BD	25	THR
27	BD	27	THR
27	BD	36	PRO
27	BD	123	ALA
27	BD	127	VAL
27	BD	169	GLU
27	BD	225	ALA
27	BD	241	PRO
27	BD	245	PRO
27	BD	246	PRO
27	BD	271	ILE
28	BE	53	PRO
28	BE	54	GLN
28	BE	55	ASN
28	BE	61	ARG
28	BE	64	LYS
28	BE	68	ALA
28	BE	69	LYS
28	BE	77	ILE
28	BE	90	THR
28	BE	118	LYS
28	BE	189	PRO
28	BE	203	LYS
29	BF	21	ALA
29	BF	27	GLU
29	BF	59	TYR
29	BF	89	VAL
29	BF	133	ASN
29	BF	136	THR
30	BG	6	ALA
30	BG	43	LEU
30	BG	47	LYS
30	BG	49	ASP
30	BG	75	LYS
30	BG	81	LYS

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Mol	Chain	Res	Type
30	BG	82	LEU
30	BG	86	MET
30	BG	87	PRO
30	BG	96	ARG
30	BG	109	VAL
30	BG	110	ALA
30	BG	115	ARG
30	BG	123	ASN
30	BG	126	ASP
30	BG	142	PRO
30	BG	143	GLU
30	BG	145	THR
31	BH	8	PRO
31	BH	12	PRO
31	BH	24	VAL
31	BH	71	LEU
31	BH	83	TYR
31	BH	92	ILE
31	BH	154	PRO
31	BH	155	SER
31	BH	156	ALA
31	BH	159	GLU
31	BH	160	LYS
31	BH	165	ALA
32	BI	12	LEU
32	BI	15	VAL
32	BI	71	ILE
32	BI	76	THR
32	BI	87	LYS
32	BI	92	VAL
32	BI	99	GLU
32	BI	105	HIS
32	BI	120	ILE
32	BI	132	PRO
33	BJ	14	LYS
33	BJ	19	ARG
33	BJ	23	SER
33	BJ	30	GLN
33	BJ	32	LEU
33	BJ	33	PRO
33	BJ	43	ALA
33	BJ	47	ASN

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Mol	Chain	Res	Type
33	BJ	51	LEU
33	BJ	57	THR
33	BJ	58	LEU
33	BJ	59	ILE
33	BJ	62	ALA
33	BJ	63	LEU
33	BJ	68	LEU
33	BJ	69	PRO
33	BJ	77	PRO
33	BJ	80	VAL
33	BJ	84	GLU
33	BJ	85	ASP
33	BJ	86	PRO
33	BJ	87	VAL
33	BJ	90	ALA
33	BJ	92	THR
33	BJ	93	LEU
33	BJ	100	ASN
33	BJ	101	PRO
33	BJ	105	PRO
33	BJ	108	LYS
33	BJ	109	SER
33	BJ	112	LEU
33	BJ	120	LYS
33	BJ	122	VAL
33	BJ	123	GLU
33	BJ	124	ALA
33	BJ	125	LEU
34	BN	4	TYR
34	BN	42	TRP
34	BN	58	ASP
34	BN	60	ILE
34	BN	126	PRO
34	BN	134	ARG
35	BO	27	GLY
35	BO	29	ASN
35	BO	48	PRO
36	BP	14	LYS
36	BP	17	LYS
36	BP	19	VAL
36	BP	31	ALA
36	BP	58	THR

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Mol	Chain	Res	Type
36	BP	89	ALA
36	BP	103	ALA
36	BP	111	ARG
37	BQ	2	LEU
37	BQ	27	VAL
37	BQ	135	ASP
38	BR	8	ARG
38	BR	12	ARG
38	BR	58	GLY
39	BS	13	ARG
39	BS	23	ARG
39	BS	24	LEU
39	BS	35	ILE
39	BS	59	LYS
39	BS	82	ILE
39	BS	90	GLY
39	BS	92	TYR
39	BS	107	GLU
40	BT	2	ASN
40	BT	3	ARG
40	BT	24	PRO
40	BT	26	ASP
40	BT	28	VAL
40	BT	30	VAL
40	BT	35	LYS
40	BT	55	ASN
40	BT	58	ASN
40	BT	80	SER
40	BT	91	ARG
40	BT	107	ASP
41	BU	91	ASP
41	BU	93	LYS
42	BV	18	LEU
42	BV	46	VAL
42	BV	53	GLU
43	BW	10	VAL
43	BW	11	ARG
43	BW	93	ALA
43	BW	111	HIS
45	BY	5	MET
45	BY	7	VAL
45	BY	24	VAL

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Mol	Chain	Res	Type
45	BY	27	VAL
45	BY	38	ILE
45	BY	45	VAL
45	BY	60	PHE
45	BY	66	PRO
45	BY	77	PRO
45	BY	78	ALA
45	BY	90	LEU
45	BY	91	GLU
45	BY	96	ILE
45	BY	97	ARG
46	BZ	65	GLN
46	BZ	120	ILE
46	BZ	136	PHE
46	BZ	146	ILE
46	BZ	152	ALA
46	BZ	168	GLU
46	BZ	170	THR
46	BZ	171	ILE
47	B0	17	GLN
47	B0	74	ARG
48	B1	27	GLU
48	B1	30	VAL
48	B1	53	VAL
48	B1	84	GLY
49	B2	45	SER
49	B2	48	HIS
51	B4	26	SER
51	B4	40	HIS
51	B4	43	TYR
51	B4	44	THR
52	B5	35	GLU
52	B5	36	CYS
52	B5	49	CYS
52	B5	51	TYR
52	B5	52	TYR
53	B6	9	LEU
53	B6	18	ARG
53	B6	27	LYS
53	B6	28	ARG
53	B6	31	PRO
53	B6	44	ARG

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Mol	Chain	Res	Type
53	B6	48	VAL
55	B8	33	ASN
55	B8	34	TRP
55	B8	43	GLN
55	B8	49	VAL
1	Ab	20	GLU
1	Ab	26	PRO
1	Ab	80	ILE
1	Ab	101	MET
1	Ab	103	THR
1	Ab	150	SER
1	Ab	171	ALA
2	Ac	26	LYS
2	Ac	45	LYS
2	Ac	61	ALA
2	Ac	145	GLY
2	Ac	163	ALA
2	Ac	165	THR
3	Ad	3	ARG
3	Ad	4	TYR
3	Ad	5	ILE
3	Ad	73	ARG
3	Ad	92	VAL
3	Ad	171	GLY
3	Ad	189	PRO
4	Ae	20	GLN
4	Ae	27	ARG
4	Ae	104	ALA
4	Ae	128	PRO
4	Ae	129	ILE
4	Ae	148	VAL
4	Ae	153	LYS
5	Af	6	VAL
6	Ag	21	VAL
6	Ag	54	THR
7	Ah	2	LEU
7	Ah	41	ARG
8	Ai	12	GLU
8	Ai	100	GLY
8	Ai	101	PHE
8	Ai	111	ARG
9	Aj	36	GLY

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Mol	Chain	Res	Type
9	Aj	52	GLY
9	Aj	59	SER
10	Ak	89	ALA
10	Ak	122	LYS
11	Al	19	ARG
11	Al	51	ALA
11	Al	121	GLY
12	Am	3	ARG
12	Am	7	VAL
12	Am	12	ASN
12	Am	58	GLU
12	Am	63	THR
12	Am	74	VAL
12	Am	90	LEU
12	Am	100	GLY
12	Am	112	GLY
12	Am	116	THR
13	An	24	CYS
13	An	36	PHE
14	Ao	49	ASP
14	Ao	85	LEU
14	Ao	86	GLY
14	Ao	87	ILE
15	Ap	39	TYR
15	Ap	78	GLY
16	Aq	33	GLY
16	Aq	34	LYS
17	Ar	58	LEU
18	As	65	ASN
18	As	80	TYR
19	At	71	THR
19	At	100	ILE
21	Ay	10	ARG
21	Ay	48	PRO
21	Ay	76	ILE
21	Ay	88	SER
21	Ay	94	ILE
27	AD	30	GLU
27	AD	32	SER
27	AD	58	HIS
27	AD	122	ASP
27	AD	138	VAL

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Mol	Chain	Res	Type
27	AD	262	ARG
28	AE	33	VAL
28	AE	57	LYS
28	AE	66	HIS
28	AE	70	ALA
28	AE	71	GLY
28	AE	72	VAL
28	AE	82	ARG
28	AE	186	GLY
28	AE	201	THR
29	AF	3	GLU
29	AF	16	GLY
29	AF	54	ARG
29	AF	86	GLY
29	AF	90	PHE
29	AF	128	ALA
29	AF	134	GLY
29	AF	158	THR
29	AF	167	ALA
30	AG	10	LYS
30	AG	27	ASN
30	AG	43	LEU
30	AG	75	LYS
30	AG	96	ARG
30	AG	103	LEU
31	AH	14	GLY
31	AH	45	VAL
31	AH	59	ARG
31	AH	69	ARG
31	AH	71	LEU
31	AH	126	PRO
31	AH	157	TYR
32	AI	14	ASP
32	AI	30	LEU
32	AI	85	GLU
32	AI	116	LEU
33	AJ	7	VAL
33	AJ	20	ALA
33	AJ	57	THR
33	AJ	59	ILE
33	AJ	62	ALA
33	AJ	74	LEU

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Mol	Chain	Res	Type
33	AJ	90	ALA
33	AJ	91	LYS
33	AJ	96	PHE
33	AJ	106	GLN
33	AJ	116	ILE
34	AN	47	ALA
34	AN	57	ALA
34	AN	77	GLY
34	AN	133	GLN
35	AO	5	GLN
36	AP	10	PRO
36	AP	11	GLY
36	AP	47	ASP
36	AP	49	ARG
36	AP	98	GLU
36	AP	104	GLY
36	AP	106	LEU
36	AP	107	LYS
36	AP	108	LYS
37	AQ	20	ALA
37	AQ	62	GLY
37	AQ	136	ALA
38	AR	117	VAL
39	AS	53	SER
39	AS	94	TYR
39	AS	96	GLY
39	AS	102	ALA
40	AT	12	SER
40	AT	17	THR
40	AT	32	TYR
40	AT	39	ARG
40	AT	88	ILE
40	AT	92	GLY
40	AT	129	ARG
41	AU	9	VAL
41	AU	32	PHE
41	AU	90	VAL
42	AV	19	LYS
42	AV	31	ALA
43	AW	29	LEU
43	AW	63	ASP
43	AW	93	ALA

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Mol	Chain	Res	Type
45	AY	22	GLY
45	AY	29	GLU
45	AY	42	VAL
45	AY	48	ALA
45	AY	80	GLY
46	AZ	30	ASN
46	AZ	81	ARG
46	AZ	120	ILE
46	AZ	141	VAL
46	AZ	168	GLU
46	AZ	181	GLU
48	A1	24	ALA
48	A1	85	LEU
48	A1	94	LEU
49	A2	10	LEU
49	A2	11	GLU
49	A2	44	LEU
50	A3	3	ARG
50	A3	38	GLU
51	A4	20	ASN
51	A4	48	ARG
52	A5	50	GLY
52	A5	53	ALA
53	A6	49	HIS
53	A6	52	VAL
54	A7	46	VAL
55	A8	31	HIS
55	A8	46	ARG
55	A8	49	VAL
55	A8	57	ARG
1	Bb	20	GLU
1	Bb	26	PRO
1	Bb	80	ILE
1	Bb	101	MET
1	Bb	103	THR
1	Bb	150	SER
1	Bb	171	ALA
2	Bc	26	LYS
2	Bc	45	LYS
2	Bc	145	GLY
2	Bc	163	ALA
2	Bc	165	THR

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Mol	Chain	Res	Type
3	Bd	3	ARG
3	Bd	4	TYR
3	Bd	5	ILE
3	Bd	44	GLY
3	Bd	73	ARG
3	Bd	92	VAL
3	Bd	179	GLU
4	Be	20	GLN
4	Be	27	ARG
4	Be	128	PRO
4	Be	129	ILE
4	Be	148	VAL
4	Be	153	LYS
5	Bf	82	ARG
6	Bg	21	VAL
7	Bh	2	LEU
7	Bh	41	ARG
8	Bi	12	GLU
8	Bi	101	PHE
8	Bi	109	VAL
8	Bi	111	ARG
9	Bj	36	GLY
9	Bj	52	GLY
9	Bj	59	SER
10	Bk	89	ALA
10	Bk	122	LYS
11	Bl	19	ARG
11	Bl	51	ALA
11	Bl	91	LYS
11	Bl	121	GLY
12	Bm	3	ARG
12	Bm	7	VAL
12	Bm	12	ASN
12	Bm	58	GLU
12	Bm	100	GLY
13	Bn	24	CYS
13	Bn	36	PHE
14	Bo	49	ASP
14	Bo	77	ARG
14	Bo	85	LEU
14	Bo	86	GLY
14	Bo	87	ILE

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Mol	Chain	Res	Type
15	Bp	28	ARG
15	Bp	39	TYR
15	Bp	78	GLY
16	Bq	33	GLY
16	Bq	34	LYS
17	Br	45	SER
17	Br	58	LEU
18	Bs	65	ASN
18	Bs	80	TYR
19	Bt	100	ILE
21	By	17	LYS
21	By	44	LEU
21	By	56	ARG
21	By	80	LYS
27	BD	30	GLU
27	BD	32	SER
27	BD	58	HIS
27	BD	122	ASP
27	BD	125	ILE
27	BD	138	VAL
27	BD	262	ARG
28	BE	33	VAL
28	BE	57	LYS
28	BE	66	HIS
28	BE	70	ALA
28	BE	71	GLY
28	BE	72	VAL
28	BE	82	ARG
28	BE	186	GLY
28	BE	201	THR
29	BF	3	GLU
29	BF	16	GLY
29	BF	86	GLY
29	BF	90	PHE
29	BF	134	GLY
29	BF	158	THR
29	BF	167	ALA
30	BG	10	LYS
30	BG	46	ALA
30	BG	70	VAL
30	BG	122	PRO
30	BG	127	GLY

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Mol	Chain	Res	Type
30	BG	128	ARG
30	BG	129	GLY
30	BG	146	TYR
30	BG	147	ASP
30	BG	154	GLY
31	BH	14	GLY
31	BH	45	VAL
31	BH	59	ARG
31	BH	69	ARG
31	BH	126	PRO
31	BH	138	LYS
31	BH	157	TYR
31	BH	158	HIS
32	BI	14	ASP
32	BI	30	LEU
32	BI	85	GLU
32	BI	97	ILE
32	BI	116	LEU
33	BJ	42	GLN
33	BJ	81	VAL
33	BJ	106	GLN
33	BJ	129	PRO
34	BN	47	ALA
34	BN	57	ALA
34	BN	77	GLY
34	BN	133	GLN
35	BO	5	GLN
36	BP	10	PRO
36	BP	11	GLY
36	BP	47	ASP
36	BP	49	ARG
36	BP	98	GLU
36	BP	104	GLY
36	BP	106	LEU
36	BP	107	LYS
36	BP	108	LYS
37	BQ	20	ALA
37	BQ	62	GLY
37	BQ	136	ALA
38	BR	117	VAL
39	BS	53	SER
39	BS	94	TYR

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Mol	Chain	Res	Type
39	BS	96	GLY
39	BS	97	ARG
39	BS	100	ALA
39	BS	102	ALA
40	BT	12	SER
40	BT	17	THR
40	BT	32	TYR
40	BT	39	ARG
40	BT	88	ILE
40	BT	92	GLY
40	BT	129	ARG
41	BU	9	VAL
41	BU	32	PHE
41	BU	90	VAL
42	BV	19	LYS
42	BV	31	ALA
42	BV	78	LYS
43	BW	60	ASN
43	BW	63	ASP
44	BX	22	ALA
45	BY	22	GLY
45	BY	29	GLU
45	BY	31	LEU
45	BY	42	VAL
45	BY	48	ALA
45	BY	80	GLY
46	BZ	77	ASP
46	BZ	113	ALA
46	BZ	128	VAL
46	BZ	134	PRO
46	BZ	165	VAL
46	BZ	169	GLU
46	BZ	181	GLU
48	B1	26	ARG
48	B1	58	ILE
49	B2	43	GLN
50	B3	3	ARG
50	B3	38	GLU
51	B4	20	ASN
51	B4	48	ARG
52	B5	50	GLY
52	B5	53	ALA

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Mol	Chain	Res	Type
53	B6	49	HIS
53	B6	52	VAL
54	B7	46	VAL
55	B8	31	HIS
55	B8	46	ARG
55	B8	57	ARG
1	Ab	19	HIS
1	Ab	95	GLN
1	Ab	130	ARG
1	Ab	131	PRO
2	Ac	4	LYS
2	Ac	12	LEU
2	Ac	46	GLU
2	Ac	54	ARG
2	Ac	74	GLY
2	Ac	127	ARG
2	Ac	181	ASN
3	Ad	14	ARG
3	Ad	37	PRO
3	Ad	44	GLY
3	Ad	60	GLU
3	Ad	159	ARG
4	Ae	108	ALA
4	Ae	149	GLU
5	Af	42	GLU
6	Ag	7	ALA
6	Ag	153	HIS
7	Ah	68	ARG
8	Ai	10	ARG
8	Ai	95	LYS
10	Ak	106	LYS
11	Al	26	ALA
11	Al	27	LEU
12	Am	31	LYS
12	Am	67	GLU
12	Am	70	LEU
14	Ao	24	SER
14	Ao	77	ARG
15	Ap	28	ARG
15	Ap	67	THR
16	Aq	74	LEU
17	Ar	28	GLU

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Mol	Chain	Res	Type
17	Ar	45	SER
18	As	27	GLU
19	At	74	LYS
19	At	82	SER
19	At	94	ALA
19	At	98	PRO
19	At	99	LEU
20	Au	15	ARG
21	Ay	37	PRO
21	Ay	44	LEU
21	Ay	77	SER
26	AC	203	GLU
27	AD	202	LYS
28	AE	94	GLU
29	AF	22	ALA
29	AF	25	PRO
30	AG	68	PRO
30	AG	81	LYS
30	AG	127	GLY
30	AG	130	ASN
30	AG	158	ALA
31	AH	13	LYS
31	AH	47	GLU
31	AH	49	VAL
31	AH	110	SER
31	AH	158	HIS
32	AI	36	ALA
32	AI	75	LEU
32	AI	97	ILE
32	AI	115	ALA
32	AI	143	SER
33	AJ	23	SER
33	AJ	50	ARG
33	AJ	55	LYS
33	AJ	111	LEU
33	AJ	118	THR
33	AJ	129	PRO
34	AN	56	ASN
36	AP	9	ASN
36	AP	33	ARG
36	AP	39	LYS
36	AP	147	LEU

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Mol	Chain	Res	Type
37	AQ	22	LYS
37	AQ	134	ARG
38	AR	14	SER
39	AS	27	SER
39	AS	37	ALA
39	AS	88	ASP
40	AT	27	THR
40	AT	33	LYS
40	AT	38	ASN
40	AT	104	ASN
42	AV	2	PHE
42	AV	3	ALA
42	AV	16	PRO
42	AV	78	LYS
43	AW	6	ILE
44	AX	22	ALA
45	AY	31	LEU
45	AY	37	VAL
45	AY	100	ALA
46	AZ	7	ALA
46	AZ	78	LYS
46	AZ	170	THR
46	AZ	172	ALA
46	AZ	184	ALA
49	A2	47	ASN
49	A2	69	ARG
51	A4	3	GLU
51	A4	51	ASP
53	A6	16	CYS
53	A6	19	ARG
53	A6	20	ASN
53	A6	23	THR
55	A8	29	LYS
55	A8	53	PRO
1	Bb	95	GLN
1	Bb	130	ARG
1	Bb	131	PRO
1	Bb	217	ARG
2	Bc	4	LYS
2	Bc	12	LEU
2	Bc	46	GLU
2	Bc	54	ARG

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Mol	Chain	Res	Type
2	Bc	74	GLY
2	Bc	127	ARG
2	Bc	181	ASN
3	Bd	14	ARG
3	Bd	60	GLU
3	Bd	159	ARG
3	Bd	171	GLY
3	Bd	189	PRO
4	Be	104	ALA
4	Be	108	ALA
4	Be	149	GLU
5	Bf	6	VAL
5	Bf	42	GLU
6	Bg	7	ALA
6	Bg	14	PRO
6	Bg	54	THR
6	Bg	153	HIS
7	Bh	68	ARG
8	Bi	95	LYS
10	Bk	106	LYS
11	Bl	26	ALA
11	Bl	27	LEU
12	Bm	70	LEU
12	Bm	112	GLY
14	Bo	24	SER
16	Bq	74	LEU
17	Br	28	GLU
18	Bs	27	GLU
19	Bt	74	LYS
19	Bt	82	SER
19	Bt	98	PRO
19	Bt	99	LEU
21	By	3	TYR
27	BD	202	LYS
28	BE	94	GLU
29	BF	15	SER
29	BF	22	ALA
29	BF	25	PRO
29	BF	54	ARG
29	BF	128	ALA
30	BG	97	ASP
30	BG	117	PHE

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Mol	Chain	Res	Type
30	BG	179	PRO
31	BH	13	LYS
31	BH	47	GLU
31	BH	110	SER
32	BI	36	ALA
32	BI	69	LYS
32	BI	143	SER
33	BJ	65	GLU
33	BJ	74	LEU
33	BJ	97	ALA
33	BJ	102	LYS
34	BN	37	LYS
34	BN	56	ASN
36	BP	9	ASN
36	BP	147	LEU
37	BQ	22	LYS
38	BR	4	LEU
38	BR	14	SER
39	BS	27	SER
39	BS	37	ALA
39	BS	88	ASP
40	BT	27	THR
40	BT	33	LYS
40	BT	38	ASN
40	BT	104	ASN
42	BV	2	PHE
42	BV	3	ALA
42	BV	16	PRO
43	BW	6	ILE
43	BW	29	LEU
45	BY	37	VAL
45	BY	53	PRO
45	BY	100	ALA
46	BZ	13	GLU
46	BZ	31	ARG
46	BZ	42	VAL
46	BZ	51	ALA
46	BZ	62	PRO
46	BZ	81	ARG
46	BZ	122	ARG
46	BZ	166	SER
46	BZ	185	GLU

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Mol	Chain	Res	Type
47	B0	73	GLY
48	B1	24	ALA
48	B1	54	ALA
48	B1	69	LYS
49	B2	17	SER
51	B4	3	GLU
51	B4	51	ASP
53	B6	19	ARG
53	B6	20	ASN
53	B6	23	THR
55	B8	29	LYS
55	B8	53	PRO
1	Ab	8	LYS
1	Ab	83	MET
1	Ab	84	GLU
1	Ab	129	GLU
1	Ab	135	GLN
1	Ab	194	PRO
1	Ab	217	ARG
2	Ac	14	ILE
2	Ac	36	ASP
2	Ac	56	ASP
2	Ac	98	ASN
2	Ac	164	ARG
4	Ae	16	THR
4	Ae	136	MET
6	Ag	9	VAL
6	Ag	14	PRO
6	Ag	31	MET
6	Ag	65	ALA
6	Ag	81	GLY
7	Ah	29	SER
8	Ai	11	LYS
8	Ai	34	ASN
8	Ai	70	LYS
11	Al	12	ARG
14	Ao	65	ARG
17	Ar	25	THR
18	As	30	LEU
18	As	43	GLU
18	As	70	LYS
21	Ay	9	GLU

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Mol	Chain	Res	Type
26	AC	53	ARG
27	AD	191	ALA
28	AE	17	ASP
28	AE	56	PRO
29	AF	7	TYR
29	AF	9	ILE
29	AF	11	VAL
29	AF	15	SER
29	AF	168	ARG
30	AG	84	LYS
30	AG	87	PRO
30	AG	145	THR
30	AG	175	LEU
31	AH	20	ALA
32	AI	6	LEU
32	AI	69	LYS
34	AN	17	ASP
34	AN	37	LYS
34	AN	94	HIS
36	AP	25	SER
36	AP	48	PRO
36	AP	57	THR
36	AP	76	LYS
36	AP	141	ALA
36	AP	149	GLU
37	AQ	13	GLN
37	AQ	40	ALA
38	AR	4	LEU
38	AR	5	LYS
38	AR	86	ARG
38	AR	106	GLY
40	AT	29	ARG
40	AT	126	ALA
45	AY	39	VAL
45	AY	49	VAL
45	AY	53	PRO
45	AY	81	LYS
46	AZ	45	ASP
46	AZ	130	PRO
51	A4	28	LYS
52	A5	4	HIS
55	A8	3	LYS

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Mol	Chain	Res	Type
1	Bb	8	LYS
1	Bb	19	HIS
1	Bb	83	MET
1	Bb	84	GLU
1	Bb	129	GLU
1	Bb	135	GLN
1	Bb	194	PRO
2	Bc	56	ASP
2	Bc	164	ARG
2	Bc	204	LEU
3	Bd	37	PRO
4	Be	16	THR
4	Be	109	ILE
4	Be	136	MET
6	Bg	9	VAL
6	Bg	81	GLY
7	Bh	29	SER
8	Bi	10	ARG
8	Bi	11	LYS
8	Bi	34	ASN
8	Bi	70	LYS
12	Bm	31	LYS
14	Bo	65	ARG
18	Bs	9	VAL
18	Bs	30	LEU
18	Bs	43	GLU
18	Bs	70	LYS
19	Bt	94	ALA
20	Bu	15	ARG
21	By	38	ARG
21	By	82	GLU
26	BC	53	ARG
26	BC	203	GLU
27	BD	45	ASN
27	BD	191	ALA
28	BE	17	ASP
28	BE	56	PRO
28	BE	117	MET
29	BF	9	ILE
29	BF	11	VAL
29	BF	168	ARG
30	BG	118	ARG

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Mol	Chain	Res	Type
31	BH	20	ALA
31	BH	49	VAL
32	BI	6	LEU
32	BI	75	LEU
32	BI	115	ALA
33	BJ	31	GLY
33	BJ	60	ARG
33	BJ	83	TYR
33	BJ	91	LYS
34	BN	17	ASP
34	BN	94	HIS
36	BP	25	SER
36	BP	33	ARG
36	BP	39	LYS
36	BP	48	PRO
36	BP	76	LYS
36	BP	141	ALA
36	BP	149	GLU
37	BQ	40	ALA
37	BQ	134	ARG
38	BR	5	LYS
38	BR	86	ARG
38	BR	106	GLY
40	BT	29	ARG
41	BU	67	ALA
45	BY	30	VAL
45	BY	39	VAL
45	BY	81	LYS
46	BZ	154	ASP
51	B4	28	LYS
52	B5	4	HIS
53	B6	16	CYS
55	B8	3	LYS
1	Ab	22	LYS
1	Ab	155	LEU
2	Ac	168	ALA
2	Ac	204	LEU
3	Ad	56	VAL
3	Ad	118	ARG
3	Ad	156	GLU
3	Ad	178	VAL
4	Ae	8	GLU

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Mol	Chain	Res	Type
4	Ae	109	ILE
6	Ag	40	ALA
10	Ak	34	ASP
13	An	14	PRO
13	An	23	ARG
14	Ao	36	ILE
15	Ap	52	ASP
18	As	9	VAL
19	At	97	ALA
21	Ay	81	ARG
27	AD	3	VAL
27	AD	10	THR
27	AD	12	SER
27	AD	28	GLU
27	AD	45	ASN
27	AD	140	THR
27	AD	263	ARG
28	AE	19	ARG
28	AE	117	MET
28	AE	185	LYS
29	AF	2	LYS
29	AF	14	PRO
29	AF	176	LEU
30	AG	24	GLY
30	AG	86	MET
30	AG	181	ARG
32	AI	16	GLY
33	AJ	42	GLN
33	AJ	53	VAL
33	AJ	104	ILE
35	AO	14	THR
35	AO	64	ARG
36	AP	36	LYS
36	AP	109	GLY
36	AP	148	LEU
38	AR	45	ARG
38	AR	82	GLU
38	AR	102	GLU
39	AS	91	PRO
40	AT	41	ARG
42	AV	35	LEU
43	AW	35	ILE

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Mol	Chain	Res	Type
44	AX	87	GLN
45	AY	9	LYS
46	AZ	142	SER
46	AZ	164	ALA
46	AZ	165	VAL
47	A0	55	ARG
48	A1	30	VAL
56	A9	31	LYS
1	Bb	22	LYS
1	Bb	155	LEU
1	Bb	198	ASP
2	Bc	14	ILE
2	Bc	36	ASP
2	Bc	98	ASN
2	Bc	168	ALA
4	Be	7	GLU
4	Be	8	GLU
4	Be	49	PRO
6	Bg	31	MET
6	Bg	65	ALA
10	Bk	34	ASP
11	Bl	12	ARG
12	Bm	117	VAL
13	Bn	14	PRO
17	Br	25	THR
19	Bt	97	ALA
21	By	23	ARG
21	By	51	TYR
21	By	77	SER
27	BD	3	VAL
27	BD	10	THR
27	BD	28	GLU
27	BD	140	THR
27	BD	263	ARG
28	BE	19	ARG
29	BF	2	LYS
29	BF	7	TYR
29	BF	14	PRO
29	BF	176	LEU
30	BG	32	PRO
30	BG	52	ILE
30	BG	155	MET

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Mol	Chain	Res	Type
32	BI	16	GLY
32	BI	122	GLU
34	BN	36	GLY
35	BO	64	ARG
36	BP	57	THR
36	BP	109	GLY
36	BP	148	LEU
37	BQ	13	GLN
37	BQ	53	ALA
37	BQ	78	PRO
38	BR	82	GLU
38	BR	102	GLU
39	BS	85	VAL
39	BS	91	PRO
40	BT	41	ARG
40	BT	126	ALA
42	BV	35	LEU
42	BV	44	LYS
43	BW	65	LEU
44	BX	46	ALA
45	BY	49	VAL
46	BZ	45	ASP
46	BZ	80	ARG
46	BZ	82	ARG
46	BZ	119	GLU
47	B0	55	ARG
49	B2	18	PRO
49	B2	23	LYS
56	B9	31	LYS
1	Ab	13	ALA
1	Ab	154	LEU
1	Ab	198	ASP
2	Ac	6	HIS
2	Ac	81	GLY
3	Ad	9	CYS
4	Ae	49	PRO
4	Ae	65	ASN
7	Ah	6	ILE
8	Ai	21	PRO
8	Ai	98	PRO
10	Ak	39	PRO
11	Al	63	GLY

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Mol	Chain	Res	Type
12	Am	60	VAL
14	Ao	10	LYS
15	Ap	73	LEU
21	Ay	82	GLU
27	AD	244	ARG
28	AE	35	GLN
28	AE	75	VAL
29	AF	5	ALA
29	AF	24	LEU
34	AN	5	VAL
34	AN	135	PRO
36	AP	146	VAL
37	AQ	78	PRO
39	AS	57	LYS
39	AS	85	VAL
40	AT	85	LYS
42	AV	49	THR
43	AW	65	LEU
44	AX	46	ALA
46	AZ	39	VAL
46	AZ	107	THR
46	AZ	115	GLY
47	A0	73	GLY
51	A4	5	ILE
2	Bc	6	HIS
2	Bc	81	GLY
3	Bd	56	VAL
3	Bd	118	ARG
3	Bd	156	GLU
3	Bd	178	VAL
4	Be	107	ARG
4	Be	140	ARG
8	Bi	21	PRO
11	Bl	120	TYR
13	Bn	23	ARG
21	By	29	LYS
27	BD	244	ARG
28	BE	185	LYS
29	BF	24	LEU
30	BG	3	LEU
30	BG	107	LEU
33	BJ	119	ALA

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Mol	Chain	Res	Type
34	BN	5	VAL
34	BN	135	PRO
36	BP	146	VAL
37	BQ	29	PHE
38	BR	29	LEU
39	BS	57	LYS
42	BV	49	THR
45	BY	9	LYS
47	B0	83	PRO
51	B4	4	GLY
51	B4	5	ILE
13	An	28	GLY
14	Ao	19	PRO
29	AF	66	PRO
31	AH	66	GLY
32	AI	90	GLY
34	AN	36	GLY
45	AY	30	VAL
47	A0	83	PRO
48	A1	28	GLY
51	A4	4	GLY
51	A4	33	VAL
7	Bh	6	ILE
8	Bi	98	PRO
8	Bi	100	GLY
10	Bk	39	PRO
11	Bl	63	GLY
13	Bn	28	GLY
14	Bo	19	PRO
14	Bo	36	ILE
21	By	71	VAL
28	BE	75	VAL
30	BG	28	VAL
32	BI	90	GLY
33	BJ	22	GLY
33	BJ	104	ILE
37	BQ	52	VAL
43	BW	35	ILE
46	BZ	96	VAL
51	B4	33	VAL
3	Ad	7	PRO
6	Ag	17	VAL

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Mol	Chain	Res	Type
9	Aj	82	ILE
27	AD	11	PRO
27	AD	234	GLY
31	AH	76	VAL
31	AH	93	GLY
33	AJ	128	LEU
45	AY	98	VAL
46	AZ	22	GLY
48	A1	84	GLY
6	Bg	17	VAL
9	Bj	82	ILE
12	Bm	53	VAL
18	Bs	45	VAL
20	Bu	13	ILE
31	BH	66	GLY
45	BY	98	VAL
46	BZ	129	SER
51	B4	19	GLY
55	B8	52	LYS
2	Ac	13	GLY
8	Ai	109	VAL
12	Am	53	VAL
18	As	45	VAL
30	AG	119	GLY
36	AP	23	PRO
37	AQ	52	VAL
37	AQ	126	PRO
45	AY	82	PRO
46	AZ	137	ILE
51	A4	19	GLY
3	Bd	7	PRO
3	Bd	172	PRO
7	Bh	101	PRO
9	Bj	90	LEU
26	BC	176	VAL
31	BH	76	VAL
32	BI	88	ILE
36	BP	23	PRO
41	BU	82	GLY
45	BY	82	PRO
4	Ae	11	ILE
6	Ag	88	PRO

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Mol	Chain	Res	Type
7	Ah	101	PRO
9	Aj	90	LEU
13	An	13	THR
20	Au	13	ILE
21	Ay	47	MET
26	AC	176	VAL
27	AD	106	ILE
30	AG	89	GLY
33	AJ	81	VAL
41	AU	82	GLY
49	A2	57	ILE
2	Bc	68	VAL
6	Bg	88	PRO
6	Bg	111	ARG
11	Bl	18	VAL
13	Bn	13	THR
27	BD	11	PRO
27	BD	34	VAL
29	BF	66	PRO
31	BH	55	PRO
31	BH	93	GLY
32	BI	23	PRO
37	BQ	126	PRO
39	BS	14	VAL
1	Ab	183	PRO
7	Ah	26	VAL
11	Al	18	VAL
27	AD	34	VAL
31	AH	55	PRO
32	AI	84	GLY
39	AS	14	VAL
55	A8	52	LYS
4	Be	11	ILE
32	BI	84	GLY
33	BJ	116	ILE
43	BW	26	GLY
45	BY	18	GLY

5.3.2 Protein sidechains (i)

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

resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	Ab	202/220 (92%)	181 (90%)	21 (10%)	7 29
1	Bb	202/220 (92%)	181 (90%)	21 (10%)	7 29
2	Ac	160/188 (85%)	150 (94%)	10 (6%)	16 44
2	Bc	160/188 (85%)	150 (94%)	10 (6%)	16 44
3	Ad	180/181 (99%)	159 (88%)	21 (12%)	5 25
3	Bd	180/181 (99%)	160 (89%)	20 (11%)	6 27
4	Ae	115/123 (94%)	98 (85%)	17 (15%)	3 17
4	Be	115/123 (94%)	100 (87%)	15 (13%)	4 21
5	Af	90/90 (100%)	80 (89%)	10 (11%)	6 27
5	Bf	90/90 (100%)	80 (89%)	10 (11%)	6 27
6	Ag	126/127 (99%)	119 (94%)	7 (6%)	19 47
6	Bg	126/127 (99%)	119 (94%)	7 (6%)	19 47
7	Ah	119/119 (100%)	113 (95%)	6 (5%)	22 49
7	Bh	119/119 (100%)	113 (95%)	6 (5%)	22 49
8	Ai	98/99 (99%)	87 (89%)	11 (11%)	6 27
8	Bi	98/99 (99%)	87 (89%)	11 (11%)	6 27
9	Aj	88/92 (96%)	81 (92%)	7 (8%)	11 37
9	Bj	88/92 (96%)	81 (92%)	7 (8%)	11 37
10	Ak	90/99 (91%)	84 (93%)	6 (7%)	15 42
10	Bk	90/99 (91%)	84 (93%)	6 (7%)	15 42
11	Al	104/109 (95%)	92 (88%)	12 (12%)	5 25
11	Bl	104/109 (95%)	90 (86%)	14 (14%)	4 21
12	Am	94/101 (93%)	84 (89%)	10 (11%)	6 28
12	Bm	94/101 (93%)	82 (87%)	12 (13%)	4 22
13	An	49/50 (98%)	47 (96%)	2 (4%)	27 53
13	Bn	49/50 (98%)	47 (96%)	2 (4%)	27 53
14	Ao	79/80 (99%)	74 (94%)	5 (6%)	16 44
14	Bo	79/80 (99%)	74 (94%)	5 (6%)	16 44
15	Ap	72/74 (97%)	68 (94%)	4 (6%)	19 47

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	Bp	72/74 (97%)	67 (93%)	5 (7%)	14 41
16	Aq	94/97 (97%)	90 (96%)	4 (4%)	26 52
16	Bq	94/97 (97%)	90 (96%)	4 (4%)	26 52
17	Ar	61/77 (79%)	60 (98%)	1 (2%)	55 69
17	Br	61/77 (79%)	59 (97%)	2 (3%)	33 58
18	As	69/80 (86%)	55 (80%)	14 (20%)	1 8
18	Bs	69/80 (86%)	55 (80%)	14 (20%)	1 8
19	At	76/82 (93%)	70 (92%)	6 (8%)	11 37
19	Bt	76/82 (93%)	70 (92%)	6 (8%)	11 37
20	Au	19/22 (86%)	19 (100%)	0	100 100
20	Bu	19/22 (86%)	19 (100%)	0	100 100
21	Ay	86/87 (99%)	77 (90%)	9 (10%)	6 29
21	By	86/87 (99%)	78 (91%)	8 (9%)	8 32
26	AC	99/181 (55%)	94 (95%)	5 (5%)	21 49
26	BC	99/181 (55%)	94 (95%)	5 (5%)	21 49
27	AD	213/218 (98%)	180 (84%)	33 (16%)	2 16
27	BD	213/218 (98%)	180 (84%)	33 (16%)	2 16
28	AE	165/166 (99%)	132 (80%)	33 (20%)	1 8
28	BE	165/166 (99%)	131 (79%)	34 (21%)	1 8
29	AF	165/166 (99%)	144 (87%)	21 (13%)	4 22
29	BF	165/166 (99%)	145 (88%)	20 (12%)	5 23
30	AG	155/156 (99%)	138 (89%)	17 (11%)	6 27
30	BG	155/156 (99%)	129 (83%)	26 (17%)	2 13
31	AH	137/148 (93%)	121 (88%)	16 (12%)	5 25
31	BH	137/148 (93%)	121 (88%)	16 (12%)	5 25
32	AI	122/124 (98%)	99 (81%)	23 (19%)	1 9
32	BI	122/124 (98%)	100 (82%)	22 (18%)	2 11
34	AN	117/119 (98%)	100 (86%)	17 (14%)	3 18
34	BN	117/119 (98%)	100 (86%)	17 (14%)	3 18
35	AO	100/100 (100%)	89 (89%)	11 (11%)	6 27
35	BO	100/100 (100%)	89 (89%)	11 (11%)	6 27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
36	AP	112/116 (97%)	90 (80%)	22 (20%)	1 8
36	BP	112/116 (97%)	90 (80%)	22 (20%)	1 8
37	AQ	110/111 (99%)	100 (91%)	10 (9%)	9 33
37	BQ	110/111 (99%)	99 (90%)	11 (10%)	7 30
38	AR	100/101 (99%)	85 (85%)	15 (15%)	3 17
38	BR	100/101 (99%)	84 (84%)	16 (16%)	2 15
39	AS	77/88 (88%)	63 (82%)	14 (18%)	2 11
39	BS	77/88 (88%)	62 (80%)	15 (20%)	1 9
40	AT	118/127 (93%)	97 (82%)	21 (18%)	2 11
40	BT	118/127 (93%)	97 (82%)	21 (18%)	2 11
41	AU	92/94 (98%)	81 (88%)	11 (12%)	5 24
41	BU	92/94 (98%)	80 (87%)	12 (13%)	4 21
42	AV	82/82 (100%)	68 (83%)	14 (17%)	2 13
42	BV	82/82 (100%)	68 (83%)	14 (17%)	2 13
43	AW	91/92 (99%)	79 (87%)	12 (13%)	4 21
43	BW	91/92 (99%)	79 (87%)	12 (13%)	4 21
44	AX	74/78 (95%)	63 (85%)	11 (15%)	3 17
44	BX	74/78 (95%)	63 (85%)	11 (15%)	3 17
45	AY	84/91 (92%)	71 (84%)	13 (16%)	2 16
45	BY	84/91 (92%)	71 (84%)	13 (16%)	2 16
46	AZ	162/179 (90%)	138 (85%)	24 (15%)	3 17
46	BZ	162/179 (90%)	134 (83%)	28 (17%)	2 12
47	A0	66/67 (98%)	57 (86%)	9 (14%)	3 20
47	B0	66/67 (98%)	58 (88%)	8 (12%)	5 23
48	A1	78/83 (94%)	66 (85%)	12 (15%)	2 16
48	B1	78/83 (94%)	61 (78%)	17 (22%)	1 7
49	A2	66/67 (98%)	62 (94%)	4 (6%)	17 45
49	B2	66/67 (98%)	50 (76%)	16 (24%)	1 5
50	A3	51/52 (98%)	45 (88%)	6 (12%)	5 24
50	B3	51/52 (98%)	45 (88%)	6 (12%)	5 24
51	A4	51/63 (81%)	40 (78%)	11 (22%)	1 7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
51	B4	51/63 (81%)	41 (80%)	10 (20%)	1 8
52	A5	47/52 (90%)	41 (87%)	6 (13%)	4 22
52	B5	47/52 (90%)	42 (89%)	5 (11%)	6 28
53	A6	49/52 (94%)	39 (80%)	10 (20%)	1 8
53	B6	49/52 (94%)	39 (80%)	10 (20%)	1 8
54	A7	40/42 (95%)	35 (88%)	5 (12%)	4 22
54	B7	40/42 (95%)	35 (88%)	5 (12%)	4 22
55	A8	53/55 (96%)	43 (81%)	10 (19%)	1 9
55	B8	53/55 (96%)	43 (81%)	10 (19%)	1 9
56	A9	34/34 (100%)	34 (100%)	0	100 100
56	B9	34/34 (100%)	34 (100%)	0	100 100
All	All	9962/10602 (94%)	8732 (88%)	1230 (12%)	4 23

All (1230) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Ab	15	VAL
1	Ab	17	PHE
1	Ab	36	ARG
1	Ab	48	MET
1	Ab	63	MET
1	Ab	79	ASP
1	Ab	80	ILE
1	Ab	87	ARG
1	Ab	129	GLU
1	Ab	140	HIS
1	Ab	145	LEU
1	Ab	159	PRO
1	Ab	172	ILE
1	Ab	176	GLU
1	Ab	178	ARG
1	Ab	179	LYS
1	Ab	187	LEU
1	Ab	196	LEU
1	Ab	212	GLN
1	Ab	221	LEU
1	Ab	222	ILE
2	Ac	3	ASN

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Mol	Chain	Res	Type
2	Ac	5	ILE
2	Ac	16	ARG
2	Ac	18	TRP
2	Ac	34	LEU
2	Ac	44	GLU
2	Ac	82	GLU
2	Ac	94	LEU
2	Ac	107	GLN
2	Ac	131	ARG
3	Ad	3	ARG
3	Ad	9	CYS
3	Ad	10	ARG
3	Ad	26	CYS
3	Ad	36	ARG
3	Ad	38	TYR
3	Ad	59	ARG
3	Ad	80	GLU
3	Ad	86	LYS
3	Ad	97	LEU
3	Ad	110	PHE
3	Ad	114	ARG
3	Ad	126	ILE
3	Ad	129	ASN
3	Ad	135	LEU
3	Ad	137	SER
3	Ad	158	ILE
3	Ad	168	ARG
3	Ad	188	LEU
3	Ad	192	GLU
3	Ad	194	LEU
4	Ae	6	PHE
4	Ae	10	MET
4	Ae	12	LEU
4	Ae	16	THR
4	Ae	26	PHE
4	Ae	28	PHE
4	Ae	31	LEU
4	Ae	36	ASP
4	Ae	41	VAL
4	Ae	51	VAL
4	Ae	55	VAL
4	Ae	56	GLN

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Mol	Chain	Res	Type
4	Ae	73	ASN
4	Ae	79	GLU
4	Ae	101	ILE
4	Ae	128	PRO
4	Ae	147	ASP
5	Af	24	GLU
5	Af	25	ILE
5	Af	37	VAL
5	Af	43	LEU
5	Af	55	ASP
5	Af	63	TYR
5	Af	65	VAL
5	Af	80	ARG
5	Af	92	LYS
5	Af	93	SER
6	Ag	12	LEU
6	Ag	87	VAL
6	Ag	111	ARG
6	Ag	124	LEU
6	Ag	136	LYS
6	Ag	146	GLU
6	Ag	151	TYR
7	Ah	1	MET
7	Ah	63	LEU
7	Ah	65	TYR
7	Ah	112	LEU
7	Ah	119	LEU
7	Ah	137	VAL
8	Ai	38	GLN
8	Ai	47	LEU
8	Ai	53	VAL
8	Ai	64	THR
8	Ai	78	LYS
8	Ai	79	LEU
8	Ai	95	LYS
8	Ai	104	ARG
8	Ai	105	ASP
8	Ai	110	GLU
8	Ai	114	TYR
9	Aj	16	LEU
9	Aj	48	THR
9	Aj	50	ILE

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Mol	Chain	Res	Type
9	Aj	68	HIS
9	Aj	80	LYS
9	Aj	86	MET
9	Aj	96	ILE
10	Ak	21	ILE
10	Ak	29	ILE
10	Ak	31	THR
10	Ak	40	ILE
10	Ak	124	LYS
10	Ak	125	PHE
11	Al	20	LYS
11	Al	27	LEU
11	Al	41	ARG
11	Al	42	THR
11	Al	47	LYS
11	Al	62	SER
11	Al	79	GLU
11	Al	85	ILE
11	Al	89	ARG
11	Al	116	SER
11	Al	120	TYR
11	Al	126	LYS
12	Am	47	ASP
12	Am	65	LYS
12	Am	66	LEU
12	Am	69	GLU
12	Am	71	ARG
12	Am	79	LYS
12	Am	82	MET
12	Am	93	ARG
12	Am	98	VAL
12	Am	108	ARG
13	An	33	VAL
13	An	44	LEU
14	Ao	19	PRO
14	Ao	31	LEU
14	Ao	65	ARG
14	Ao	67	LEU
14	Ao	82	ILE
15	Ap	2	VAL
15	Ap	69	THR
15	Ap	79	VAL

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Mol	Chain	Res	Type
15	Ap	80	PHE
16	Aq	38	ARG
16	Aq	52	LYS
16	Aq	60	ILE
16	Aq	74	LEU
17	Ar	58	LEU
18	As	5	LEU
18	As	6	LYS
18	As	7	LYS
18	As	11	VAL
18	As	15	LEU
18	As	16	LEU
18	As	22	LEU
18	As	29	ARG
18	As	33	THR
18	As	37	ARG
18	As	43	GLU
18	As	44	MET
18	As	56	GLN
18	As	70	LYS
19	At	24	LEU
19	At	26	ASN
19	At	54	LYS
19	At	73	HIS
19	At	75	ASN
19	At	93	GLU
21	Ay	6	ASP
21	Ay	7	PHE
21	Ay	10	ARG
21	Ay	12	LEU
21	Ay	27	LYS
21	Ay	44	LEU
21	Ay	48	PRO
21	Ay	81	ARG
21	Ay	95	LEU
26	AC	32	GLU
26	AC	50	ILE
26	AC	173	HIS
26	AC	185	LYS
26	AC	225	ILE
27	AD	24	ILE
27	AD	27	THR

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Mol	Chain	Res	Type
27	AD	28	GLU
27	AD	35	LYS
27	AD	46	GLN
27	AD	48	ARG
27	AD	49	ILE
27	AD	54	ARG
27	AD	61	LEU
27	AD	65	ILE
27	AD	72	LYS
27	AD	83	GLU
27	AD	94	LEU
27	AD	95	LEU
27	AD	99	ASP
27	AD	103	ARG
27	AD	111	LEU
27	AD	116	GLN
27	AD	117	VAL
27	AD	122	ASP
27	AD	131	LEU
27	AD	166	GLN
27	AD	192	THR
27	AD	200	ASP
27	AD	221	VAL
27	AD	229	VAL
27	AD	246	PRO
27	AD	257	LEU
27	AD	259	THR
27	AD	260	ARG
27	AD	268	ARG
27	AD	270	ILE
27	AD	271	ILE
28	AE	4	ILE
28	AE	9	VAL
28	AE	12	THR
28	AE	14	ILE
28	AE	18	ASP
28	AE	33	VAL
28	AE	49	LEU
28	AE	53	PRO
28	AE	55	ASN
28	AE	63	LEU
28	AE	64	LYS

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Mol	Chain	Res	Type
28	AE	78	LEU
28	AE	79	ARG
28	AE	87	GLU
28	AE	89	ASP
28	AE	94	GLU
28	AE	95	ILE
28	AE	107	THR
28	AE	111	ARG
28	AE	119	ARG
28	AE	128	SER
28	AE	129	HIS
28	AE	134	ILE
28	AE	144	ARG
28	AE	167	VAL
28	AE	169	ASN
28	AE	175	VAL
28	AE	178	GLU
28	AE	184	VAL
28	AE	191	PRO
28	AE	197	ILE
28	AE	202	LYS
28	AE	203	LYS
29	AF	23	ASP
29	AF	28	ILE
29	AF	30	PRO
29	AF	33	LEU
29	AF	53	THR
29	AF	66	PRO
29	AF	67	GLN
29	AF	84	VAL
29	AF	88	VAL
29	AF	106	ARG
29	AF	110	LEU
29	AF	125	LEU
29	AF	129	PHE
29	AF	149	ASP
29	AF	157	VAL
29	AF	158	THR
29	AF	164	ARG
29	AF	165	ARG
29	AF	188	ARG
29	AF	196	LEU

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Mol	Chain	Res	Type
29	AF	200	GLU
30	AG	5	VAL
30	AG	15	VAL
30	AG	26	GLN
30	AG	36	LYS
30	AG	43	LEU
30	AG	58	GLN
30	AG	60	LEU
30	AG	63	ILE
30	AG	67	LYS
30	AG	77	ILE
30	AG	82	LEU
30	AG	83	ARG
30	AG	111	LEU
30	AG	113	ARG
30	AG	123	ASN
30	AG	125	PHE
30	AG	152	LEU
31	AH	9	ILE
31	AH	15	VAL
31	AH	40	GLU
31	AH	42	ARG
31	AH	46	GLU
31	AH	53	GLU
31	AH	60	ARG
31	AH	68	THR
31	AH	88	LEU
31	AH	94	TYR
31	AH	116	GLU
31	AH	136	ILE
31	AH	143	GLN
31	AH	153	LYS
31	AH	157	TYR
31	AH	170	ARG
32	AI	1	MET
32	AI	3	VAL
32	AI	12	LEU
32	AI	20	ASP
32	AI	67	ARG
32	AI	68	LEU
32	AI	74	ASN
32	AI	79	ILE

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Mol	Chain	Res	Type
32	AI	81	VAL
32	AI	85	GLU
32	AI	92	VAL
32	AI	101	LEU
32	AI	107	VAL
32	AI	109	ILE
32	AI	110	ASP
32	AI	113	ARG
32	AI	120	ILE
32	AI	123	LEU
32	AI	132	PRO
32	AI	136	VAL
32	AI	138	ILE
32	AI	139	GLN
32	AI	140	LEU
34	AN	4	TYR
34	AN	15	LEU
34	AN	23	LEU
34	AN	26	LEU
34	AN	28	THR
34	AN	32	THR
34	AN	34	LEU
34	AN	39	ARG
34	AN	48	MET
34	AN	55	VAL
34	AN	85	ILE
34	AN	87	LEU
34	AN	89	LYS
34	AN	108	PRO
34	AN	112	LEU
34	AN	120	LEU
34	AN	130	HIS
35	AO	3	GLN
35	AO	10	VAL
35	AO	24	VAL
35	AO	32	TYR
35	AO	35	VAL
35	AO	48	PRO
35	AO	73	ASP
35	AO	85	VAL
35	AO	96	THR
35	AO	98	VAL

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Mol	Chain	Res	Type
35	AO	117	LEU
36	AP	6	LEU
36	AP	13	ASN
36	AP	16	ARG
36	AP	18	ARG
36	AP	32	THR
36	AP	39	LYS
36	AP	57	THR
36	AP	58	THR
36	AP	61	ARG
36	AP	75	ILE
36	AP	81	GLN
36	AP	85	LEU
36	AP	91	PHE
36	AP	95	VAL
36	AP	98	GLU
36	AP	100	LEU
36	AP	105	LEU
36	AP	108	LYS
36	AP	114	ILE
36	AP	125	VAL
36	AP	135	LEU
36	AP	144	GLU
37	AQ	38	GLU
37	AQ	45	GLN
37	AQ	55	VAL
37	AQ	79	LEU
37	AQ	89	ASN
37	AQ	91	GLU
37	AQ	109	VAL
37	AQ	110	THR
37	AQ	135	ASP
37	AQ	138	ASP
38	AR	2	ARG
38	AR	8	ARG
38	AR	29	LEU
38	AR	65	LEU
38	AR	67	LEU
38	AR	76	VAL
38	AR	79	LEU
38	AR	94	TYR
38	AR	97	VAL

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Mol	Chain	Res	Type
38	AR	99	LYS
38	AR	100	LEU
38	AR	103	ARG
38	AR	104	ARG
38	AR	116	LEU
38	AR	118	GLU
39	AS	11	LYS
39	AS	12	PHE
39	AS	15	ARG
39	AS	24	LEU
39	AS	36	TYR
39	AS	40	ILE
39	AS	54	LEU
39	AS	67	ARG
39	AS	83	LYS
39	AS	89	ARG
39	AS	92	TYR
39	AS	97	ARG
39	AS	101	LEU
39	AS	106	ARG
40	AT	3	ARG
40	AT	13	ARG
40	AT	14	TYR
40	AT	22	PHE
40	AT	24	PRO
40	AT	29	ARG
40	AT	41	ARG
40	AT	48	ILE
40	AT	49	VAL
40	AT	51	ARG
40	AT	58	ASN
40	AT	59	THR
40	AT	65	LYS
40	AT	66	VAL
40	AT	78	LEU
40	AT	82	LEU
40	AT	89	VAL
40	AT	93	ARG
40	AT	99	LEU
40	AT	123	GLN
40	AT	125	ARG
41	AU	3	ARG

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Mol	Chain	Res	Type
41	AU	8	VAL
41	AU	14	HIS
41	AU	16	LYS
41	AU	20	LEU
41	AU	59	ARG
41	AU	60	LEU
41	AU	74	LEU
41	AU	83	LEU
41	AU	101	ARG
41	AU	108	GLU
42	AV	1	MET
42	AV	5	VAL
42	AV	16	PRO
42	AV	18	LEU
42	AV	19	LYS
42	AV	39	LEU
42	AV	40	LEU
42	AV	46	VAL
42	AV	51	VAL
42	AV	61	VAL
42	AV	75	PHE
42	AV	91	TYR
42	AV	95	LEU
42	AV	99	ILE
43	AW	11	ARG
43	AW	20	VAL
43	AW	23	LEU
43	AW	51	LEU
43	AW	52	GLU
43	AW	59	VAL
43	AW	60	ASN
43	AW	63	ASP
43	AW	70	TYR
43	AW	75	TYR
43	AW	82	LEU
43	AW	107	LEU
44	AX	8	ILE
44	AX	12	VAL
44	AX	23	GLU
44	AX	27	THR
44	AX	28	PHE
44	AX	43	VAL

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Mol	Chain	Res	Type
44	AX	51	VAL
44	AX	57	LEU
44	AX	68	ARG
44	AX	80	ILE
44	AX	83	VAL
45	AY	6	HIS
45	AY	7	VAL
45	AY	9	LYS
45	AY	14	LEU
45	AY	28	LYS
45	AY	29	GLU
45	AY	32	PRO
45	AY	53	PRO
45	AY	61	ILE
45	AY	64	GLU
45	AY	66	PRO
45	AY	77	PRO
45	AY	83	THR
46	AZ	6	LYS
46	AZ	11	GLU
46	AZ	20	ARG
46	AZ	24	LEU
46	AZ	27	VAL
46	AZ	29	TYR
46	AZ	34	ASN
46	AZ	41	LEU
46	AZ	61	LEU
46	AZ	62	PRO
46	AZ	70	LEU
46	AZ	112	ARG
46	AZ	119	GLU
46	AZ	120	ILE
46	AZ	123	ASP
46	AZ	127	LYS
46	AZ	130	PRO
46	AZ	150	LEU
46	AZ	166	SER
46	AZ	169	GLU
46	AZ	174	VAL
46	AZ	175	VAL
46	AZ	179	ASP
46	AZ	180	VAL

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Mol	Chain	Res	Type
47	A0	5	LYS
47	A0	10	THR
47	A0	11	ARG
47	A0	14	ARG
47	A0	20	ARG
47	A0	30	VAL
47	A0	36	ILE
47	A0	38	VAL
47	A0	75	LEU
48	A1	5	CYS
48	A1	14	VAL
48	A1	19	GLN
48	A1	40	ARG
48	A1	41	ARG
48	A1	46	LEU
48	A1	52	ARG
48	A1	72	GLU
48	A1	73	LEU
48	A1	80	LEU
48	A1	82	LEU
48	A1	91	LYS
49	A2	19	VAL
49	A2	30	ARG
49	A2	64	LEU
49	A2	71	ASN
50	A3	8	LEU
50	A3	9	VAL
50	A3	40	THR
50	A3	43	ILE
50	A3	46	ASN
50	A3	58	VAL
51	A4	1	MET
51	A4	3	GLU
51	A4	5	ILE
51	A4	13	ARG
51	A4	22	ILE
51	A4	25	TYR
51	A4	28	LYS
51	A4	30	GLU
51	A4	34	GLU
51	A4	53	GLU
51	A4	55	ARG

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Mol	Chain	Res	Type
52	A5	4	HIS
52	A5	11	THR
52	A5	25	LEU
52	A5	44	THR
52	A5	52	TYR
52	A5	55	ARG
53	A6	9	LEU
53	A6	10	LEU
53	A6	11	LEU
53	A6	15	GLU
53	A6	18	ARG
53	A6	27	LYS
53	A6	30	THR
53	A6	31	PRO
53	A6	34	LEU
53	A6	42	TRP
54	A7	4	THR
54	A7	8	ASN
54	A7	43	THR
54	A7	44	PRO
54	A7	46	VAL
55	A8	4	MET
55	A8	30	ARG
55	A8	31	HIS
55	A8	32	LEU
55	A8	33	ASN
55	A8	34	TRP
55	A8	47	LYS
55	A8	59	LYS
55	A8	61	LEU
55	A8	64	TYR
1	Bb	15	VAL
1	Bb	17	PHE
1	Bb	36	ARG
1	Bb	48	MET
1	Bb	63	MET
1	Bb	79	ASP
1	Bb	80	ILE
1	Bb	87	ARG
1	Bb	129	GLU
1	Bb	140	HIS
1	Bb	145	LEU

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Mol	Chain	Res	Type
1	Bb	159	PRO
1	Bb	172	ILE
1	Bb	176	GLU
1	Bb	178	ARG
1	Bb	179	LYS
1	Bb	187	LEU
1	Bb	196	LEU
1	Bb	212	GLN
1	Bb	221	LEU
1	Bb	222	ILE
2	Bc	3	ASN
2	Bc	5	ILE
2	Bc	16	ARG
2	Bc	18	TRP
2	Bc	34	LEU
2	Bc	44	GLU
2	Bc	82	GLU
2	Bc	94	LEU
2	Bc	107	GLN
2	Bc	131	ARG
3	Bd	3	ARG
3	Bd	9	CYS
3	Bd	10	ARG
3	Bd	26	CYS
3	Bd	36	ARG
3	Bd	38	TYR
3	Bd	59	ARG
3	Bd	80	GLU
3	Bd	86	LYS
3	Bd	97	LEU
3	Bd	110	PHE
3	Bd	114	ARG
3	Bd	126	ILE
3	Bd	129	ASN
3	Bd	135	LEU
3	Bd	158	ILE
3	Bd	168	ARG
3	Bd	188	LEU
3	Bd	192	GLU
3	Bd	194	LEU
4	Be	6	PHE
4	Be	10	MET

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Mol	Chain	Res	Type
4	Be	12	LEU
4	Be	16	THR
4	Be	26	PHE
4	Be	28	PHE
4	Be	31	LEU
4	Be	36	ASP
4	Be	41	VAL
4	Be	51	VAL
4	Be	55	VAL
4	Be	56	GLN
4	Be	73	ASN
4	Be	79	GLU
4	Be	101	ILE
5	Bf	24	GLU
5	Bf	25	ILE
5	Bf	37	VAL
5	Bf	43	LEU
5	Bf	55	ASP
5	Bf	63	TYR
5	Bf	65	VAL
5	Bf	80	ARG
5	Bf	92	LYS
5	Bf	93	SER
6	Bg	12	LEU
6	Bg	87	VAL
6	Bg	111	ARG
6	Bg	124	LEU
6	Bg	136	LYS
6	Bg	146	GLU
6	Bg	151	TYR
7	Bh	1	MET
7	Bh	63	LEU
7	Bh	65	TYR
7	Bh	112	LEU
7	Bh	119	LEU
7	Bh	137	VAL
8	Bi	38	GLN
8	Bi	47	LEU
8	Bi	53	VAL
8	Bi	64	THR
8	Bi	78	LYS
8	Bi	79	LEU

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Mol	Chain	Res	Type
8	Bi	95	LYS
8	Bi	104	ARG
8	Bi	105	ASP
8	Bi	110	GLU
8	Bi	114	TYR
9	Bj	16	LEU
9	Bj	48	THR
9	Bj	50	ILE
9	Bj	68	HIS
9	Bj	80	LYS
9	Bj	86	MET
9	Bj	96	ILE
10	Bk	21	ILE
10	Bk	29	ILE
10	Bk	31	THR
10	Bk	40	ILE
10	Bk	124	LYS
10	Bk	125	PHE
11	Bl	20	LYS
11	Bl	24	VAL
11	Bl	27	LEU
11	Bl	41	ARG
11	Bl	42	THR
11	Bl	47	LYS
11	Bl	62	SER
11	Bl	66	VAL
11	Bl	79	GLU
11	Bl	85	ILE
11	Bl	89	ARG
11	Bl	116	SER
11	Bl	120	TYR
11	Bl	126	LYS
12	Bm	47	ASP
12	Bm	65	LYS
12	Bm	66	LEU
12	Bm	67	GLU
12	Bm	69	GLU
12	Bm	79	LYS
12	Bm	82	MET
12	Bm	92	HIS
12	Bm	93	ARG
12	Bm	98	VAL

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Mol	Chain	Res	Type
12	Bm	108	ARG
12	Bm	117	VAL
13	Bn	33	VAL
13	Bn	44	LEU
14	Bo	19	PRO
14	Bo	31	LEU
14	Bo	65	ARG
14	Bo	67	LEU
14	Bo	82	ILE
15	Bp	2	VAL
15	Bp	28	ARG
15	Bp	69	THR
15	Bp	79	VAL
15	Bp	80	PHE
16	Bq	38	ARG
16	Bq	52	LYS
16	Bq	60	ILE
16	Bq	74	LEU
17	Br	31	LEU
17	Br	58	LEU
18	Bs	5	LEU
18	Bs	6	LYS
18	Bs	7	LYS
18	Bs	11	VAL
18	Bs	15	LEU
18	Bs	16	LEU
18	Bs	22	LEU
18	Bs	29	ARG
18	Bs	33	THR
18	Bs	37	ARG
18	Bs	43	GLU
18	Bs	44	MET
18	Bs	56	GLN
18	Bs	70	LYS
19	Bt	24	LEU
19	Bt	26	ASN
19	Bt	54	LYS
19	Bt	73	HIS
19	Bt	75	ASN
19	Bt	93	GLU
21	By	5	LEU
21	By	14	GLU

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Mol	Chain	Res	Type
21	By	17	LYS
21	By	24	GLU
21	By	30	LEU
21	By	44	LEU
21	By	72	VAL
21	By	95	LEU
26	BC	32	GLU
26	BC	50	ILE
26	BC	173	HIS
26	BC	185	LYS
26	BC	225	ILE
27	BD	24	ILE
27	BD	27	THR
27	BD	28	GLU
27	BD	35	LYS
27	BD	46	GLN
27	BD	48	ARG
27	BD	49	ILE
27	BD	54	ARG
27	BD	61	LEU
27	BD	65	ILE
27	BD	72	LYS
27	BD	83	GLU
27	BD	94	LEU
27	BD	99	ASP
27	BD	103	ARG
27	BD	111	LEU
27	BD	116	GLN
27	BD	117	VAL
27	BD	122	ASP
27	BD	131	LEU
27	BD	166	GLN
27	BD	178	PRO
27	BD	192	THR
27	BD	200	ASP
27	BD	221	VAL
27	BD	229	VAL
27	BD	246	PRO
27	BD	257	LEU
27	BD	259	THR
27	BD	260	ARG
27	BD	268	ARG

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Mol	Chain	Res	Type
27	BD	270	ILE
27	BD	271	ILE
28	BE	4	ILE
28	BE	9	VAL
28	BE	12	THR
28	BE	14	ILE
28	BE	18	ASP
28	BE	33	VAL
28	BE	49	LEU
28	BE	53	PRO
28	BE	55	ASN
28	BE	63	LEU
28	BE	64	LYS
28	BE	78	LEU
28	BE	79	ARG
28	BE	87	GLU
28	BE	89	ASP
28	BE	94	GLU
28	BE	95	ILE
28	BE	107	THR
28	BE	111	ARG
28	BE	119	ARG
28	BE	128	SER
28	BE	129	HIS
28	BE	134	ILE
28	BE	144	ARG
28	BE	167	VAL
28	BE	169	ASN
28	BE	175	VAL
28	BE	178	GLU
28	BE	184	VAL
28	BE	188	VAL
28	BE	191	PRO
28	BE	197	ILE
28	BE	202	LYS
28	BE	203	LYS
29	BF	23	ASP
29	BF	28	ILE
29	BF	30	PRO
29	BF	33	LEU
29	BF	53	THR
29	BF	66	PRO

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Mol	Chain	Res	Type
29	BF	67	GLN
29	BF	84	VAL
29	BF	88	VAL
29	BF	106	ARG
29	BF	110	LEU
29	BF	125	LEU
29	BF	129	PHE
29	BF	149	ASP
29	BF	158	THR
29	BF	164	ARG
29	BF	165	ARG
29	BF	188	ARG
29	BF	196	LEU
29	BF	200	GLU
30	BG	3	LEU
30	BG	12	TYR
30	BG	16	ARG
30	BG	20	ILE
30	BG	22	ARG
30	BG	36	LYS
30	BG	39	ILE
30	BG	43	LEU
30	BG	45	GLU
30	BG	58	GLN
30	BG	63	ILE
30	BG	66	GLN
30	BG	77	ILE
30	BG	80	PHE
30	BG	83	ARG
30	BG	86	MET
30	BG	87	PRO
30	BG	90	LEU
30	BG	97	ASP
30	BG	108	ASN
30	BG	111	LEU
30	BG	113	ARG
30	BG	125	PHE
30	BG	126	ASP
30	BG	143	GLU
30	BG	150	ASP
31	BH	9	ILE
31	BH	15	VAL

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Mol	Chain	Res	Type
31	BH	40	GLU
31	BH	42	ARG
31	BH	46	GLU
31	BH	53	GLU
31	BH	60	ARG
31	BH	68	THR
31	BH	88	LEU
31	BH	94	TYR
31	BH	116	GLU
31	BH	136	ILE
31	BH	143	GLN
31	BH	153	LYS
31	BH	157	TYR
31	BH	170	ARG
32	BI	1	MET
32	BI	3	VAL
32	BI	20	ASP
32	BI	67	ARG
32	BI	68	LEU
32	BI	74	ASN
32	BI	79	ILE
32	BI	81	VAL
32	BI	85	GLU
32	BI	92	VAL
32	BI	101	LEU
32	BI	107	VAL
32	BI	109	ILE
32	BI	110	ASP
32	BI	113	ARG
32	BI	120	ILE
32	BI	123	LEU
32	BI	132	PRO
32	BI	136	VAL
32	BI	138	ILE
32	BI	139	GLN
32	BI	140	LEU
34	BN	4	TYR
34	BN	15	LEU
34	BN	23	LEU
34	BN	26	LEU
34	BN	28	THR
34	BN	32	THR

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Mol	Chain	Res	Type
34	BN	34	LEU
34	BN	39	ARG
34	BN	48	MET
34	BN	55	VAL
34	BN	85	ILE
34	BN	87	LEU
34	BN	89	LYS
34	BN	108	PRO
34	BN	112	LEU
34	BN	120	LEU
34	BN	130	HIS
35	BO	3	GLN
35	BO	10	VAL
35	BO	24	VAL
35	BO	32	TYR
35	BO	35	VAL
35	BO	48	PRO
35	BO	73	ASP
35	BO	85	VAL
35	BO	96	THR
35	BO	98	VAL
35	BO	117	LEU
36	BP	6	LEU
36	BP	13	ASN
36	BP	16	ARG
36	BP	18	ARG
36	BP	32	THR
36	BP	39	LYS
36	BP	57	THR
36	BP	58	THR
36	BP	61	ARG
36	BP	81	GLN
36	BP	85	LEU
36	BP	91	PHE
36	BP	95	VAL
36	BP	98	GLU
36	BP	100	LEU
36	BP	105	LEU
36	BP	108	LYS
36	BP	114	ILE
36	BP	125	VAL
36	BP	130	PHE

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Mol	Chain	Res	Type
36	BP	135	LEU
36	BP	144	GLU
37	BQ	38	GLU
37	BQ	45	GLN
37	BQ	55	VAL
37	BQ	79	LEU
37	BQ	89	ASN
37	BQ	90	VAL
37	BQ	91	GLU
37	BQ	109	VAL
37	BQ	110	THR
37	BQ	135	ASP
37	BQ	138	ASP
38	BR	2	ARG
38	BR	8	ARG
38	BR	29	LEU
38	BR	44	LEU
38	BR	65	LEU
38	BR	67	LEU
38	BR	76	VAL
38	BR	79	LEU
38	BR	94	TYR
38	BR	97	VAL
38	BR	99	LYS
38	BR	100	LEU
38	BR	104	ARG
38	BR	113	LEU
38	BR	116	LEU
38	BR	118	GLU
39	BS	11	LYS
39	BS	12	PHE
39	BS	15	ARG
39	BS	24	LEU
39	BS	36	TYR
39	BS	40	ILE
39	BS	54	LEU
39	BS	67	ARG
39	BS	78	LEU
39	BS	83	LYS
39	BS	89	ARG
39	BS	92	TYR
39	BS	97	ARG

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Mol	Chain	Res	Type
39	BS	101	LEU
39	BS	106	ARG
40	BT	3	ARG
40	BT	13	ARG
40	BT	14	TYR
40	BT	22	PHE
40	BT	24	PRO
40	BT	29	ARG
40	BT	41	ARG
40	BT	48	ILE
40	BT	49	VAL
40	BT	51	ARG
40	BT	58	ASN
40	BT	59	THR
40	BT	65	LYS
40	BT	66	VAL
40	BT	78	LEU
40	BT	82	LEU
40	BT	89	VAL
40	BT	93	ARG
40	BT	99	LEU
40	BT	123	GLN
40	BT	125	ARG
41	BU	3	ARG
41	BU	8	VAL
41	BU	14	HIS
41	BU	16	LYS
41	BU	20	LEU
41	BU	59	ARG
41	BU	60	LEU
41	BU	74	LEU
41	BU	83	LEU
41	BU	101	ARG
41	BU	102	GLU
41	BU	108	GLU
42	BV	1	MET
42	BV	5	VAL
42	BV	16	PRO
42	BV	18	LEU
42	BV	19	LYS
42	BV	39	LEU
42	BV	40	LEU

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Mol	Chain	Res	Type
42	BV	46	VAL
42	BV	51	VAL
42	BV	61	VAL
42	BV	75	PHE
42	BV	91	TYR
42	BV	95	LEU
42	BV	99	ILE
43	BW	11	ARG
43	BW	20	VAL
43	BW	23	LEU
43	BW	51	LEU
43	BW	52	GLU
43	BW	59	VAL
43	BW	60	ASN
43	BW	63	ASP
43	BW	70	TYR
43	BW	75	TYR
43	BW	82	LEU
43	BW	107	LEU
44	BX	8	ILE
44	BX	12	VAL
44	BX	23	GLU
44	BX	27	THR
44	BX	28	PHE
44	BX	43	VAL
44	BX	51	VAL
44	BX	57	LEU
44	BX	68	ARG
44	BX	80	ILE
44	BX	83	VAL
45	BY	6	HIS
45	BY	7	VAL
45	BY	9	LYS
45	BY	14	LEU
45	BY	28	LYS
45	BY	29	GLU
45	BY	32	PRO
45	BY	53	PRO
45	BY	61	ILE
45	BY	64	GLU
45	BY	66	PRO
45	BY	77	PRO

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Mol	Chain	Res	Type
45	BY	83	THR
46	BZ	13	GLU
46	BZ	23	LYS
46	BZ	31	ARG
46	BZ	37	VAL
46	BZ	40	ASP
46	BZ	41	LEU
46	BZ	44	PHE
46	BZ	61	LEU
46	BZ	70	LEU
46	BZ	72	ARG
46	BZ	80	ARG
46	BZ	87	ASP
46	BZ	96	VAL
46	BZ	103	ARG
46	BZ	112	ARG
46	BZ	127	LYS
46	BZ	144	LEU
46	BZ	148	ASP
46	BZ	150	LEU
46	BZ	151	HIS
46	BZ	154	ASP
46	BZ	155	LEU
46	BZ	157	LEU
46	BZ	163	LEU
46	BZ	167	PRO
46	BZ	171	ILE
46	BZ	175	VAL
46	BZ	177	PRO
47	B0	5	LYS
47	B0	10	THR
47	B0	11	ARG
47	B0	14	ARG
47	B0	30	VAL
47	B0	36	ILE
47	B0	38	VAL
47	B0	75	LEU
48	B1	4	VAL
48	B1	7	ILE
48	B1	20	ARG
48	B1	30	VAL
48	B1	35	THR

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Mol	Chain	Res	Type
48	B1	37	ILE
48	B1	39	LYS
48	B1	41	ARG
48	B1	45	ASN
48	B1	46	LEU
48	B1	48	LYS
48	B1	58	ILE
48	B1	59	THR
48	B1	67	ILE
48	B1	73	LEU
48	B1	82	LEU
48	B1	95	LEU
49	B2	2	LYS
49	B2	3	LEU
49	B2	9	GLN
49	B2	16	LEU
49	B2	30	ARG
49	B2	32	LEU
49	B2	34	GLU
49	B2	36	ARG
49	B2	46	GLN
49	B2	51	ARG
49	B2	53	LEU
49	B2	54	LYS
49	B2	57	ILE
49	B2	64	LEU
49	B2	65	ASN
49	B2	68	ARG
50	B3	8	LEU
50	B3	9	VAL
50	B3	40	THR
50	B3	43	ILE
50	B3	46	ASN
50	B3	58	VAL
51	B4	3	GLU
51	B4	5	ILE
51	B4	13	ARG
51	B4	22	ILE
51	B4	25	TYR
51	B4	28	LYS
51	B4	30	GLU
51	B4	34	GLU

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Mol	Chain	Res	Type
51	B4	53	GLU
51	B4	55	ARG
52	B5	11	THR
52	B5	25	LEU
52	B5	44	THR
52	B5	52	TYR
52	B5	55	ARG
53	B6	9	LEU
53	B6	10	LEU
53	B6	11	LEU
53	B6	15	GLU
53	B6	18	ARG
53	B6	27	LYS
53	B6	30	THR
53	B6	31	PRO
53	B6	34	LEU
53	B6	42	TRP
54	B7	4	THR
54	B7	8	ASN
54	B7	43	THR
54	B7	44	PRO
54	B7	46	VAL
55	B8	4	MET
55	B8	30	ARG
55	B8	31	HIS
55	B8	32	LEU
55	B8	33	ASN
55	B8	34	TRP
55	B8	47	LYS
55	B8	59	LYS
55	B8	61	LEU
55	B8	64	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (356) such sidechains are listed below:

Mol	Chain	Res	Type
1	Ab	37	ASN
1	Ab	40	HIS
1	Ab	78	GLN
1	Ab	110	GLN
1	Ab	135	GLN
1	Ab	146	GLN

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Mol	Chain	Res	Type
1	Ab	204	ASN
2	Ac	6	HIS
2	Ac	37	GLN
2	Ac	69	HIS
2	Ac	107	GLN
2	Ac	108	ASN
2	Ac	110	ASN
2	Ac	136	GLN
2	Ac	170	GLN
2	Ac	181	ASN
3	Ad	42	GLN
3	Ad	62	GLN
3	Ad	74	GLN
3	Ad	77	ASN
3	Ad	129	ASN
3	Ad	161	ASN
3	Ad	201	GLN
4	Ae	72	GLN
4	Ae	73	ASN
4	Ae	78	HIS
4	Ae	141	GLN
5	Af	7	ASN
5	Af	18	GLN
5	Af	27	GLN
5	Af	32	ASN
5	Af	64	GLN
5	Af	100	ASN
6	Ag	13	GLN
6	Ag	28	ASN
6	Ag	64	GLN
6	Ag	68	ASN
6	Ag	97	GLN
6	Ag	106	GLN
6	Ag	122	HIS
6	Ag	148	ASN
7	Ah	82	HIS
8	Ai	58	HIS
8	Ai	124	GLN
9	Aj	13	HIS
9	Aj	78	ASN
10	Ak	13	GLN
10	Ak	26	ASN

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Mol	Chain	Res	Type
10	Ak	78	GLN
10	Ak	93	GLN
10	Ak	104	GLN
10	Ak	117	ASN
11	Al	8	ASN
11	Al	9	GLN
11	Al	49	ASN
11	Al	75	HIS
12	Am	12	ASN
12	Am	77	ASN
12	Am	92	HIS
12	Am	101	GLN
13	An	52	GLN
14	Ao	9	GLN
14	Ao	13	GLN
14	Ao	37	ASN
14	Ao	46	HIS
15	Ap	65	GLN
15	Ap	76	GLN
16	Aq	16	GLN
17	Ar	36	ASN
18	As	14	HIS
18	As	23	ASN
19	At	26	ASN
19	At	42	GLN
19	At	75	ASN
21	Ay	25	GLN
21	Ay	42	ASN
26	AC	57	GLN
27	AD	44	ASN
27	AD	58	HIS
27	AD	96	HIS
27	AD	126	GLN
27	AD	166	GLN
27	AD	186	HIS
27	AD	198	ASN
27	AD	227	ASN
28	AE	48	GLN
28	AE	54	GLN
28	AE	55	ASN
28	AE	129	HIS
28	AE	143	ASN

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Mol	Chain	Res	Type
28	AE	169	ASN
28	AE	180	ASN
28	AE	192	ASN
29	AF	8	GLN
29	AF	40	GLN
29	AF	69	HIS
29	AF	75	HIS
29	AF	133	ASN
29	AF	160	ASN
29	AF	169	ASN
30	AG	27	ASN
30	AG	40	ASN
30	AG	66	GLN
30	AG	79	ASN
31	AH	65	HIS
31	AH	74	ASN
31	AH	147	ASN
32	AI	74	ASN
32	AI	104	GLN
32	AI	139	GLN
34	AN	56	ASN
34	AN	69	GLN
34	AN	128	HIS
34	AN	133	GLN
35	AO	5	GLN
35	AO	82	ASN
36	AP	13	ASN
36	AP	68	GLN
36	AP	84	ASN
36	AP	128	HIS
37	AQ	45	GLN
37	AQ	123	HIS
38	AR	13	HIS
38	AR	23	ASN
38	AR	24	GLN
38	AR	31	HIS
38	AR	53	HIS
38	AR	71	GLN
39	AS	34	HIS
40	AT	2	ASN
40	AT	38	ASN
40	AT	43	GLN

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Mol	Chain	Res	Type
40	AT	55	ASN
40	AT	58	ASN
40	AT	90	GLN
40	AT	123	GLN
41	AU	14	HIS
41	AU	44	ASN
41	AU	49	HIS
41	AU	66	ASN
41	AU	81	HIS
41	AU	117	GLN
42	AV	11	GLN
43	AW	34	ASN
43	AW	57	ASN
43	AW	61	ASN
43	AW	102	HIS
44	AX	31	HIS
44	AX	41	ASN
44	AX	55	ASN
44	AX	82	GLN
46	AZ	30	ASN
46	AZ	34	ASN
46	AZ	118	GLN
46	AZ	132	ASN
47	A0	12	ASN
47	A0	29	GLN
47	A0	35	ASN
47	A0	70	GLN
48	A1	19	GLN
48	A1	45	ASN
48	A1	56	GLN
49	A2	46	GLN
49	A2	47	ASN
49	A2	56	GLN
49	A2	70	GLN
50	A3	19	GLN
50	A3	46	ASN
50	A3	52	HIS
51	A4	20	ASN
51	A4	40	HIS
51	A4	46	GLN
52	A5	43	HIS
53	A6	32	ASN

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Mol	Chain	Res	Type
54	A7	8	ASN
55	A8	31	HIS
55	A8	33	ASN
55	A8	43	GLN
56	A9	34	GLN
1	Bb	37	ASN
1	Bb	40	HIS
1	Bb	78	GLN
1	Bb	110	GLN
1	Bb	135	GLN
1	Bb	146	GLN
1	Bb	204	ASN
2	Bc	6	HIS
2	Bc	37	GLN
2	Bc	69	HIS
2	Bc	107	GLN
2	Bc	108	ASN
2	Bc	110	ASN
2	Bc	136	GLN
2	Bc	170	GLN
2	Bc	181	ASN
3	Bd	42	GLN
3	Bd	62	GLN
3	Bd	77	ASN
3	Bd	129	ASN
3	Bd	161	ASN
3	Bd	201	GLN
4	Be	72	GLN
4	Be	73	ASN
4	Be	78	HIS
4	Be	141	GLN
5	Bf	7	ASN
5	Bf	18	GLN
5	Bf	27	GLN
5	Bf	32	ASN
5	Bf	64	GLN
5	Bf	100	ASN
6	Bg	13	GLN
6	Bg	28	ASN
6	Bg	64	GLN
6	Bg	68	ASN
6	Bg	86	GLN

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Mol	Chain	Res	Type
6	Bg	97	GLN
6	Bg	106	GLN
6	Bg	122	HIS
6	Bg	148	ASN
7	Bh	82	HIS
8	Bi	3	GLN
8	Bi	58	HIS
8	Bi	124	GLN
9	Bj	13	HIS
9	Bj	56	HIS
9	Bj	78	ASN
10	Bk	13	GLN
10	Bk	26	ASN
10	Bk	78	GLN
10	Bk	93	GLN
10	Bk	104	GLN
10	Bk	117	ASN
11	Bl	8	ASN
11	Bl	9	GLN
11	Bl	49	ASN
12	Bm	12	ASN
12	Bm	77	ASN
12	Bm	92	HIS
12	Bm	101	GLN
13	Bn	49	HIS
13	Bn	52	GLN
14	Bo	9	GLN
14	Bo	13	GLN
14	Bo	37	ASN
14	Bo	46	HIS
15	Bp	65	GLN
15	Bp	76	GLN
16	Bq	16	GLN
16	Bq	94	ASN
17	Br	36	ASN
18	Bs	14	HIS
18	Bs	23	ASN
19	Bt	26	ASN
19	Bt	42	GLN
19	Bt	75	ASN
21	By	25	GLN
21	By	65	GLN

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Mol	Chain	Res	Type
26	BC	57	GLN
27	BD	44	ASN
27	BD	58	HIS
27	BD	96	HIS
27	BD	126	GLN
27	BD	166	GLN
27	BD	186	HIS
27	BD	198	ASN
27	BD	227	ASN
28	BE	48	GLN
28	BE	54	GLN
28	BE	55	ASN
28	BE	129	HIS
28	BE	137	HIS
28	BE	143	ASN
28	BE	169	ASN
28	BE	180	ASN
28	BE	192	ASN
29	BF	8	GLN
29	BF	40	GLN
29	BF	69	HIS
29	BF	75	HIS
29	BF	133	ASN
29	BF	160	ASN
29	BF	169	ASN
30	BG	40	ASN
30	BG	58	GLN
30	BG	123	ASN
30	BG	130	ASN
31	BH	65	HIS
31	BH	74	ASN
31	BH	147	ASN
32	BI	74	ASN
32	BI	104	GLN
32	BI	139	GLN
34	BN	56	ASN
34	BN	69	GLN
34	BN	128	HIS
34	BN	133	GLN
35	BO	5	GLN
35	BO	82	ASN
36	BP	13	ASN

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Mol	Chain	Res	Type
36	BP	68	GLN
36	BP	84	ASN
36	BP	128	HIS
37	BQ	45	GLN
37	BQ	123	HIS
38	BR	13	HIS
38	BR	23	ASN
38	BR	24	GLN
38	BR	31	HIS
38	BR	53	HIS
38	BR	71	GLN
39	BS	34	HIS
40	BT	38	ASN
40	BT	43	GLN
40	BT	55	ASN
40	BT	58	ASN
40	BT	90	GLN
40	BT	123	GLN
41	BU	14	HIS
41	BU	44	ASN
41	BU	49	HIS
41	BU	66	ASN
41	BU	81	HIS
42	BV	11	GLN
43	BW	34	ASN
43	BW	57	ASN
43	BW	61	ASN
43	BW	102	HIS
44	BX	31	HIS
44	BX	41	ASN
44	BX	55	ASN
46	BZ	132	ASN
46	BZ	151	HIS
47	B0	12	ASN
47	B0	29	GLN
47	B0	35	ASN
47	B0	70	GLN
48	B1	45	ASN
48	B1	47	GLN
49	B2	38	GLN
49	B2	43	GLN
49	B2	47	ASN

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Mol	Chain	Res	Type
49	B2	70	GLN
49	B2	71	ASN
50	B3	19	GLN
50	B3	46	ASN
50	B3	52	HIS
51	B4	20	ASN
51	B4	40	HIS
51	B4	46	GLN
52	B5	43	HIS
53	B6	32	ASN
54	B7	8	ASN
55	B8	33	ASN
55	B8	43	GLN
56	B9	34	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
22	Aa	1503/1504 (99%)	211 (14%)	0
22	Ba	1503/1504 (99%)	210 (13%)	0
23	Ax	11/14 (78%)	8 (72%)	0
23	Bx	11/14 (78%)	8 (72%)	0
24	Av	76/77 (98%)	15 (19%)	0
24	Bv	76/77 (98%)	17 (22%)	0
25	Aw	76/77 (98%)	11 (14%)	0
25	Bw	76/77 (98%)	8 (10%)	0
57	AA	2847/2848 (99%)	523 (18%)	55 (1%)
57	BA	2847/2848 (99%)	520 (18%)	56 (1%)
58	AB	118/119 (99%)	21 (17%)	1 (0%)
58	BB	118/119 (99%)	21 (17%)	1 (0%)
All	All	9262/9278 (99%)	1573 (16%)	113 (1%)

All (1573) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
22	Aa	9	G
22	Aa	31	G
22	Aa	32	A
22	Aa	39	G
22	Aa	47	C
22	Aa	48	C

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Mol	Chain	Res	Type
22	Aa	51	A
22	Aa	61	G
22	Aa	79	G
22	Aa	80	G
22	Aa	81	U
22	Aa	84	U
22	Aa	90	U
22	Aa	97	G
22	Aa	101	A
22	Aa	116	A
22	Aa	120	A
22	Aa	121	C
22	Aa	131	C
22	Aa	144	G
22	Aa	150	C
22	Aa	172	A
22	Aa	182	U
22	Aa	189(H)	G
22	Aa	195	A
22	Aa	197	A
22	Aa	201	C
22	Aa	203	U
22	Aa	204	U
22	Aa	216	G
22	Aa	244	U
22	Aa	247	G
22	Aa	251	G
22	Aa	266	G
22	Aa	267	C
22	Aa	279	A
22	Aa	289	G
22	Aa	321	A
22	Aa	328	C
22	Aa	329	A
22	Aa	332	G
22	Aa	345	C
22	Aa	352	C
22	Aa	353	A
22	Aa	354	G
22	Aa	367	U
22	Aa	372	C
22	Aa	373	A

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Mol	Chain	Res	Type
22	Aa	397	A
22	Aa	412	A
22	Aa	413	G
22	Aa	414	A
22	Aa	421	U
22	Aa	422	C
22	Aa	428	G
22	Aa	429	U
22	Aa	430	A
22	Aa	435	C
22	Aa	437	U
22	Aa	439	A
22	Aa	442	C
22	Aa	452	A
22	Aa	461	A
22	Aa	484	G
22	Aa	485	G
22	Aa	496	A
22	Aa	498	U
22	Aa	509	A
22	Aa	510	A
22	Aa	511	C
22	Aa	518	C
22	Aa	527	G
22	Aa	532	A
22	Aa	533	A
22	Aa	534	U
22	Aa	547	A
22	Aa	559	A
22	Aa	561	U
22	Aa	562	C
22	Aa	572	A
22	Aa	573	A
22	Aa	575	G
22	Aa	576	G
22	Aa	577	G
22	Aa	588	G
22	Aa	631	G
22	Aa	632	A
22	Aa	653	A
22	Aa	665	A
22	Aa	687	A

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Mol	Chain	Res	Type
22	Aa	688	G
22	Aa	724	G
22	Aa	731	G
22	Aa	749	C
22	Aa	755	G
22	Aa	793	U
22	Aa	794	A
22	Aa	816	A
22	Aa	817	C
22	Aa	818	G
22	Aa	819	A
22	Aa	821	G
22	Aa	828	A
22	Aa	833	U
22	Aa	839	U
22	Aa	840	C
22	Aa	841	U
22	Aa	848	C
22	Aa	859	A
22	Aa	902	G
22	Aa	913	A
22	Aa	914	A
22	Aa	927	G
22	Aa	934	C
22	Aa	935	A
22	Aa	960	U
22	Aa	961	U
22	Aa	966	G
22	Aa	968	A
22	Aa	969	A
22	Aa	971	G
22	Aa	974	A
22	Aa	975	A
22	Aa	976	G
22	Aa	977	A
22	Aa	978	A
22	Aa	980	C
22	Aa	991	U
22	Aa	992	U
22	Aa	993	G
22	Aa	1001(A)	G
22	Aa	1004	A

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Mol	Chain	Res	Type
22	Aa	1005	A
22	Aa	1024	G
22	Aa	1026	G
22	Aa	1050	G
22	Aa	1054	C
22	Aa	1068	G
22	Aa	1094	G
22	Aa	1095	U
22	Aa	1101	A
22	Aa	1108	G
22	Aa	1117	G
22	Aa	1124	G
22	Aa	1125	U
22	Aa	1126	U
22	Aa	1129	C
22	Aa	1130	A
22	Aa	1131	G
22	Aa	1136	U
22	Aa	1137	C
22	Aa	1138	G
22	Aa	1139	G
22	Aa	1146	A
22	Aa	1152	A
22	Aa	1159	U
22	Aa	1182	G
22	Aa	1184	G
22	Aa	1196	U
22	Aa	1197	G
22	Aa	1202	G
22	Aa	1212	U
22	Aa	1213	A
22	Aa	1225	A
22	Aa	1226	C
22	Aa	1227	A
22	Aa	1238	A
22	Aa	1249	C
22	Aa	1256	A
22	Aa	1257	U
22	Aa	1280	A
22	Aa	1281	U
22	Aa	1282	C
22	Aa	1286	A

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Mol	Chain	Res	Type
22	Aa	1287	A
22	Aa	1288	A
22	Aa	1294	G
22	Aa	1300	G
22	Aa	1301	U
22	Aa	1302	U
22	Aa	1305	G
22	Aa	1317	C
22	Aa	1320	C
22	Aa	1322	C
22	Aa	1323	G
22	Aa	1331	G
22	Aa	1336	C
22	Aa	1346	A
22	Aa	1347	G
22	Aa	1363	C
22	Aa	1364	U
22	Aa	1398	A
22	Aa	1419	G
22	Aa	1442	G
22	Aa	1442(A)	G
22	Aa	1442(B)	A
22	Aa	1447	A
22	Aa	1452	C
22	Aa	1457	G
22	Aa	1487	G
22	Aa	1492	A
22	Aa	1497	G
22	Aa	1499	A
22	Aa	1504	G
22	Aa	1505	G
22	Aa	1506	U
22	Aa	1507	A
22	Aa	1517	G
22	Aa	1520	G
22	Aa	1529	G
22	Aa	1530	G
23	Ax	10	G
23	Ax	11	U
23	Ax	12	A
23	Ax	13	A
23	Ax	14	A

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Mol	Chain	Res	Type
23	Ax	15	A
23	Ax	18	G
23	Ax	19	U
24	Av	3	C
24	Av	5	G
24	Av	7	G
24	Av	8	U
24	Av	17(A)	U
24	Av	18	G
24	Av	19	G
24	Av	20	U
24	Av	21	A
24	Av	47	U
24	Av	48	C
24	Av	63	G
24	Av	67	C
24	Av	75	C
24	Av	76	A
25	Aw	2	G
25	Aw	5	G
25	Aw	7	G
25	Aw	8	U
25	Aw	17	C
25	Aw	17(A)	U
25	Aw	18	G
25	Aw	19	G
25	Aw	20	U
25	Aw	47	U
25	Aw	48	C
57	AA	9	U
57	AA	10	G
57	AA	34	C
57	AA	35	G
57	AA	45	C
57	AA	49	A
57	AA	50	U
57	AA	55	G
57	AA	71	A
57	AA	72	U
57	AA	75	G
57	AA	88	G
57	AA	90	U

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Mol	Chain	Res	Type
57	AA	94	C
57	AA	100	G
57	AA	102	G
57	AA	118	A
57	AA	120	U
57	AA	129	C
57	AA	131	G
57	AA	139(A)	G
57	AA	141	A
57	AA	146	G
57	AA	154(A)	C
57	AA	155	U
57	AA	156	U
57	AA	158	U
57	AA	171	G
57	AA	173	G
57	AA	174	C
57	AA	181	A
57	AA	182	A
57	AA	196	A
57	AA	197	A
57	AA	199	A
57	AA	204	A
57	AA	205	G
57	AA	215	G
57	AA	216	A
57	AA	221	A
57	AA	222	A
57	AA	228	A
57	AA	229	A
57	AA	230	U
57	AA	248	G
57	AA	252	G
57	AA	271(I)	G
57	AA	271(J)	C
57	AA	271(N)	U
57	AA	271(O)	C
57	AA	271(P)	C
57	AA	271(R)	G
57	AA	272	G
57	AA	272(B)	G
57	AA	272(H)	C

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Mol	Chain	Res	Type
57	AA	272(I)	U
57	AA	274	G
57	AA	276	A
57	AA	277	C
57	AA	288	C
57	AA	299	A
57	AA	311	A
57	AA	329	G
57	AA	330	A
57	AA	332	A
57	AA	333	G
57	AA	352	G
57	AA	353	G
57	AA	356	G
57	AA	363(B)	G
57	AA	363(E)	U
57	AA	363(F)	A
57	AA	365	C
57	AA	372	G
57	AA	386	G
57	AA	387	U
57	AA	388	G
57	AA	396	G
57	AA	405	U
57	AA	406	G
57	AA	411	G
57	AA	412	A
57	AA	428	A
57	AA	444	C
57	AA	448	U
57	AA	454	A
57	AA	456	C
57	AA	457	A
57	AA	470	A
57	AA	475	U
57	AA	481	G
57	AA	494	G
57	AA	505	A
57	AA	508	G
57	AA	509	C
57	AA	528	A
57	AA	530	G

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Mol	Chain	Res	Type
57	AA	531	C
57	AA	532	A
57	AA	533	G
57	AA	544	G
57	AA	547	A
57	AA	548	A
57	AA	549	G
57	AA	563	G
57	AA	573	G
57	AA	588	U
57	AA	603	A
57	AA	604	G
57	AA	607	U
57	AA	613	G
57	AA	614(B)	G
57	AA	615	G
57	AA	620	G
57	AA	622	G
57	AA	627	A
57	AA	637	A
57	AA	645	C
57	AA	646	A
57	AA	653	A
57	AA	654	A
57	AA	654(C)	G
57	AA	654(I)	C
57	AA	654(J)	A
57	AA	654(K)	C
57	AA	654(L)	G
57	AA	654(M)	C
57	AA	654(T)	C
57	AA	655	A
57	AA	668	G
57	AA	669	G
57	AA	670	A
57	AA	673	C
57	AA	686	G
57	AA	708	C
57	AA	717	G
57	AA	722	A
57	AA	730	C
57	AA	753	C

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Mol	Chain	Res	Type
57	AA	765	G
57	AA	776	G
57	AA	782	A
57	AA	784	A
57	AA	785	G
57	AA	790	C
57	AA	791	C
57	AA	805	G
57	AA	812	C
57	AA	819	A
57	AA	827	U
57	AA	828	U
57	AA	830	G
57	AA	848	G
57	AA	856	C
57	AA	859	G
57	AA	866	A
57	AA	869	G
57	AA	878	A
57	AA	890	A
57	AA	896	A
57	AA	897	C
57	AA	910	A
57	AA	917	A
57	AA	927	G
57	AA	932	G
57	AA	941	A
57	AA	945	A
57	AA	946	G
57	AA	958	U
57	AA	959	A
57	AA	961	C
57	AA	965	C
57	AA	974	G
57	AA	975	C
57	AA	983	A
57	AA	991	C
57	AA	996	A
57	AA	1012	U
57	AA	1013	C
57	AA	1015	G
57	AA	1022	G

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Mol	Chain	Res	Type
57	AA	1023	U
57	AA	1025	G
57	AA	1026	U
57	AA	1033	U
57	AA	1038	C
57	AA	1039	G
57	AA	1041	C
57	AA	1045	A
57	AA	1046	A
57	AA	1047	G
57	AA	1049	C
57	AA	1052	C
57	AA	1053	C
57	AA	1106	A
57	AA	1110	G
57	AA	1112	G
57	AA	1113	U
57	AA	1114	G
57	AA	1116	C
57	AA	1129	A
57	AA	1130	U
57	AA	1135	C
57	AA	1136	G
57	AA	1142	U
57	AA	1155	A
57	AA	1171	G
57	AA	1173	G
57	AA	1174	A
57	AA	1175	U
57	AA	1176	G
57	AA	1178	C
57	AA	1180	C
57	AA	1195	G
57	AA	1205	U
57	AA	1210	A
57	AA	1211	U
57	AA	1221	C
57	AA	1247	A
57	AA	1248	G
57	AA	1250	G
57	AA	1253	A
57	AA	1256	G

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Mol	Chain	Res	Type
57	AA	1265	A
57	AA	1271	G
57	AA	1272	A
57	AA	1273	U
57	AA	1281	G
57	AA	1300	U
57	AA	1301	A
57	AA	1314	C
57	AA	1319	G
57	AA	1321	A
57	AA	1349	A
57	AA	1359	A
57	AA	1368	G
57	AA	1379	A
57	AA	1380	G
57	AA	1384	A
57	AA	1385	G
57	AA	1386	C
57	AA	1390	U
57	AA	1395	A
57	AA	1406	U
57	AA	1407	C
57	AA	1416	G
57	AA	1417	C
57	AA	1419	A
57	AA	1420	U
57	AA	1427	A
57	AA	1428	C
57	AA	1445	A
57	AA	1449	A
57	AA	1450	G
57	AA	1460	A
57	AA	1461	G
57	AA	1467	C
57	AA	1471	A
57	AA	1475	G
57	AA	1478	G
57	AA	1481	U
57	AA	1482	G
57	AA	1485	G
57	AA	1488	G
57	AA	1490	A

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Mol	Chain	Res	Type
57	AA	1491	G
57	AA	1493	C
57	AA	1494	A
57	AA	1495	A
57	AA	1497	U
57	AA	1501	C
57	AA	1502	C
57	AA	1505	C
57	AA	1509	C
57	AA	1509(A)	A
57	AA	1528(A)	A
57	AA	1534	U
57	AA	1539	G
57	AA	1541	G
57	AA	1542	A
57	AA	1543	C
57	AA	1544	A
57	AA	1547	C
57	AA	1554	A
57	AA	1558	A
57	AA	1559	G
57	AA	1569	A
57	AA	1578	U
57	AA	1579	A
57	AA	1583	A
57	AA	1584	C
57	AA	1586	A
57	AA	1588	C
57	AA	1591	G
57	AA	1598	C
57	AA	1603	A
57	AA	1608	A
57	AA	1609	A
57	AA	1616	A
57	AA	1617	C
57	AA	1618	A
57	AA	1640	C
57	AA	1647	G
57	AA	1648	C
57	AA	1653	G
57	AA	1654	A
57	AA	1674	G

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Mol	Chain	Res	Type
57	AA	1686	C
57	AA	1694	C
57	AA	1696	G
57	AA	1721	G
57	AA	1722	A
57	AA	1739	U
57	AA	1740	G
57	AA	1742	G
57	AA	1748	G
57	AA	1763	G
57	AA	1764	G
57	AA	1773	A
57	AA	1780	A
57	AA	1791	A
57	AA	1799	G
57	AA	1800	C
57	AA	1801	G
57	AA	1816	G
57	AA	1820	U
57	AA	1821	A
57	AA	1829	A
57	AA	1835	G
57	AA	1838	C
57	AA	1839	G
57	AA	1846	G
57	AA	1847	A
57	AA	1848	A
57	AA	1858	G
57	AA	1865	G
57	AA	1866	C
57	AA	1878	G
57	AA	1881	C
57	AA	1882	C
57	AA	1885	A
57	AA	1888	G
57	AA	1889	A
57	AA	1900	A
57	AA	1903	G
57	AA	1906	G
57	AA	1912	A
57	AA	1913	A
57	AA	1929	G

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Mol	Chain	Res	Type
57	AA	1930	G
57	AA	1938	A
57	AA	1948	G
57	AA	1955	U
57	AA	1963	U
57	AA	1966	A
57	AA	1967	C
57	AA	1969	A
57	AA	1970	A
57	AA	1971	A
57	AA	1972	A
57	AA	1982	C
57	AA	1987	G
57	AA	1991	U
57	AA	1992	G
57	AA	1993	U
57	AA	1997	G
57	AA	2023	G
57	AA	2031	A
57	AA	2032	G
57	AA	2033	A
57	AA	2034	U
57	AA	2036	C
57	AA	2037	G
57	AA	2043	C
57	AA	2052	G
57	AA	2055	C
57	AA	2056	G
57	AA	2060	A
57	AA	2061	G
57	AA	2062	A
57	AA	2063	C
57	AA	2069	G
57	AA	2093	G
57	AA	2096	U
57	AA	2100	G
57	AA	2103	C
57	AA	2104	G
57	AA	2110	G
57	AA	2112	G
57	AA	2116	G
57	AA	2118	U

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Mol	Chain	Res	Type
57	AA	2127	G
57	AA	2131	G
57	AA	2132	U
57	AA	2133	G
57	AA	2148	G
57	AA	2159	G
57	AA	2172	U
57	AA	2173	A
57	AA	2177	C
57	AA	2179	C
57	AA	2180	U
57	AA	2185	C
57	AA	2187	G
57	AA	2189	U
57	AA	2190	G
57	AA	2192	G
57	AA	2193	G
57	AA	2198	A
57	AA	2199	A
57	AA	2200	C
57	AA	2206	G
57	AA	2207	G
57	AA	2208	A
57	AA	2218	U
57	AA	2225	A
57	AA	2226	C
57	AA	2238	G
57	AA	2239	G
57	AA	2275	C
57	AA	2283	C
57	AA	2287	A
57	AA	2288	A
57	AA	2302	G
57	AA	2305	A
57	AA	2307	G
57	AA	2308	G
57	AA	2309	A
57	AA	2311	A
57	AA	2313	C
57	AA	2316	C
57	AA	2319	G
57	AA	2320	A

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Mol	Chain	Res	Type
57	AA	2334	G
57	AA	2336	A
57	AA	2342	C
57	AA	2347	C
57	AA	2350	C
57	AA	2360	A
57	AA	2361	A
57	AA	2383	G
57	AA	2385	C
57	AA	2396	G
57	AA	2400	G
57	AA	2402	C
57	AA	2406	U
57	AA	2423	U
57	AA	2424	C
57	AA	2425	A
57	AA	2429	G
57	AA	2430	A
57	AA	2435	A
57	AA	2439	A
57	AA	2441	C
57	AA	2448	A
57	AA	2459	A
57	AA	2465	C
57	AA	2468	G
57	AA	2469	A
57	AA	2470	G
57	AA	2472	G
57	AA	2476	A
57	AA	2477	C
57	AA	2482	G
57	AA	2484	G
57	AA	2491	U
57	AA	2502	G
57	AA	2505	G
57	AA	2518	A
57	AA	2520	C
57	AA	2524	G
57	AA	2529	G
57	AA	2531	A
57	AA	2542	A
57	AA	2543	G

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Mol	Chain	Res	Type
57	AA	2554	U
57	AA	2566	A
57	AA	2567	G
57	AA	2573	C
57	AA	2582	G
57	AA	2586	C
57	AA	2602	A
57	AA	2609	U
57	AA	2611	U
57	AA	2612	C
57	AA	2615	U
57	AA	2630	G
57	AA	2657	A
57	AA	2673	G
57	AA	2690	C
57	AA	2691	C
57	AA	2712	U
57	AA	2712(A)	A
57	AA	2713	A
57	AA	2720	U
57	AA	2726	U
57	AA	2733	A
57	AA	2752	C
57	AA	2762	G
57	AA	2765	A
57	AA	2766	G
57	AA	2778	A
57	AA	2780	G
57	AA	2787	C
57	AA	2789	C
57	AA	2790	A
57	AA	2791	C
57	AA	2794	C
57	AA	2801(A)	A
57	AA	2802	G
57	AA	2803	C
57	AA	2804	C
57	AA	2808	U
57	AA	2818	G
57	AA	2820	A
57	AA	2821	A
57	AA	2833	G

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Mol	Chain	Res	Type
57	AA	2834	G
57	AA	2849	U
57	AA	2872	G
57	AA	2879	C
57	AA	2893	G
57	AA	2897	U
58	AB	2	C
58	AB	8	U
58	AB	15	A
58	AB	16	G
58	AB	19	G
58	AB	22	U
58	AB	24	G
58	AB	27	C
58	AB	33	G
58	AB	41	U
58	AB	42	C
58	AB	45	A
58	AB	53	A
58	AB	67	G
58	AB	73	A
58	AB	75	G
58	AB	81	G
58	AB	82	G
58	AB	88	C
58	AB	110	G
58	AB	113	G
22	Ba	9	G
22	Ba	31	G
22	Ba	32	A
22	Ba	39	G
22	Ba	47	C
22	Ba	48	C
22	Ba	51	A
22	Ba	61	G
22	Ba	79	G
22	Ba	80	G
22	Ba	81	U
22	Ba	84	U
22	Ba	90	U
22	Ba	97	G
22	Ba	101	A

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Mol	Chain	Res	Type
22	Ba	116	A
22	Ba	120	A
22	Ba	121	C
22	Ba	131	C
22	Ba	144	G
22	Ba	150	C
22	Ba	172	A
22	Ba	182	U
22	Ba	189(H)	G
22	Ba	195	A
22	Ba	197	A
22	Ba	201	C
22	Ba	203	U
22	Ba	204	U
22	Ba	216	G
22	Ba	244	U
22	Ba	247	G
22	Ba	251	G
22	Ba	266	G
22	Ba	267	C
22	Ba	279	A
22	Ba	289	G
22	Ba	321	A
22	Ba	328	C
22	Ba	329	A
22	Ba	332	G
22	Ba	345	C
22	Ba	352	C
22	Ba	353	A
22	Ba	354	G
22	Ba	367	U
22	Ba	372	C
22	Ba	373	A
22	Ba	397	A
22	Ba	412	A
22	Ba	413	G
22	Ba	414	A
22	Ba	421	U
22	Ba	422	C
22	Ba	428	G
22	Ba	429	U
22	Ba	430	A

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Mol	Chain	Res	Type
22	Ba	435	C
22	Ba	437	U
22	Ba	439	A
22	Ba	442	C
22	Ba	452	A
22	Ba	461	A
22	Ba	484	G
22	Ba	485	G
22	Ba	496	A
22	Ba	498	U
22	Ba	509	A
22	Ba	510	A
22	Ba	511	C
22	Ba	518	C
22	Ba	527	G
22	Ba	532	A
22	Ba	533	A
22	Ba	534	U
22	Ba	547	A
22	Ba	559	A
22	Ba	561	U
22	Ba	562	C
22	Ba	572	A
22	Ba	573	A
22	Ba	575	G
22	Ba	576	G
22	Ba	577	G
22	Ba	588	G
22	Ba	631	G
22	Ba	632	A
22	Ba	653	A
22	Ba	665	A
22	Ba	687	A
22	Ba	688	G
22	Ba	731	G
22	Ba	749	C
22	Ba	755	G
22	Ba	793	U
22	Ba	794	A
22	Ba	816	A
22	Ba	817	C
22	Ba	818	G

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Mol	Chain	Res	Type
22	Ba	819	A
22	Ba	821	G
22	Ba	828	A
22	Ba	833	U
22	Ba	839	U
22	Ba	840	C
22	Ba	841	U
22	Ba	848	C
22	Ba	859	A
22	Ba	902	G
22	Ba	913	A
22	Ba	914	A
22	Ba	927	G
22	Ba	934	C
22	Ba	935	A
22	Ba	960	U
22	Ba	961	U
22	Ba	966	G
22	Ba	968	A
22	Ba	969	A
22	Ba	971	G
22	Ba	974	A
22	Ba	975	A
22	Ba	976	G
22	Ba	977	A
22	Ba	978	A
22	Ba	980	C
22	Ba	991	U
22	Ba	992	U
22	Ba	993	G
22	Ba	1001(A)	G
22	Ba	1004	A
22	Ba	1005	A
22	Ba	1024	G
22	Ba	1026	G
22	Ba	1050	G
22	Ba	1054	C
22	Ba	1068	G
22	Ba	1094	G
22	Ba	1095	U
22	Ba	1101	A
22	Ba	1108	G

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Mol	Chain	Res	Type
22	Ba	1117	G
22	Ba	1124	G
22	Ba	1125	U
22	Ba	1126	U
22	Ba	1129	C
22	Ba	1130	A
22	Ba	1131	G
22	Ba	1136	U
22	Ba	1137	C
22	Ba	1138	G
22	Ba	1139	G
22	Ba	1146	A
22	Ba	1152	A
22	Ba	1159	U
22	Ba	1182	G
22	Ba	1184	G
22	Ba	1196	U
22	Ba	1197	G
22	Ba	1202	G
22	Ba	1212	U
22	Ba	1213	A
22	Ba	1225	A
22	Ba	1226	C
22	Ba	1227	A
22	Ba	1238	A
22	Ba	1249	C
22	Ba	1256	A
22	Ba	1257	U
22	Ba	1280	A
22	Ba	1281	U
22	Ba	1282	C
22	Ba	1286	A
22	Ba	1287	A
22	Ba	1288	A
22	Ba	1294	G
22	Ba	1300	G
22	Ba	1301	U
22	Ba	1302	U
22	Ba	1305	G
22	Ba	1317	C
22	Ba	1320	C
22	Ba	1322	C

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Mol	Chain	Res	Type
22	Ba	1323	G
22	Ba	1331	G
22	Ba	1336	C
22	Ba	1346	A
22	Ba	1347	G
22	Ba	1363	C
22	Ba	1364	U
22	Ba	1397	C
22	Ba	1419	G
22	Ba	1439	C
22	Ba	1442	G
22	Ba	1442(A)	G
22	Ba	1442(B)	A
22	Ba	1443	G
22	Ba	1447	A
22	Ba	1452	C
22	Ba	1497	G
22	Ba	1499	A
22	Ba	1502	A
22	Ba	1504	G
22	Ba	1505	G
22	Ba	1506	U
22	Ba	1517	G
22	Ba	1519	A
22	Ba	1520	G
22	Ba	1529	G
22	Ba	1530	G
23	Bx	10	G
23	Bx	11	U
23	Bx	12	A
23	Bx	13	A
23	Bx	14	A
23	Bx	15	A
23	Bx	18	G
23	Bx	19	U
24	Bv	3	C
24	Bv	5	G
24	Bv	8	U
24	Bv	17(A)	U
24	Bv	18	G
24	Bv	19	G
24	Bv	20	U

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Mol	Chain	Res	Type
24	Bv	21	A
24	Bv	47	U
24	Bv	48	C
24	Bv	49	G
24	Bv	61	C
24	Bv	65	C
24	Bv	67	C
24	Bv	73	A
24	Bv	75	C
24	Bv	76	A
25	Bw	5	G
25	Bw	17(A)	U
25	Bw	18	G
25	Bw	19	G
25	Bw	20	U
25	Bw	21	A
25	Bw	47	U
25	Bw	48	C
57	BA	9	U
57	BA	10	G
57	BA	34	C
57	BA	35	G
57	BA	45	C
57	BA	49	A
57	BA	50	U
57	BA	55	G
57	BA	71	A
57	BA	72	U
57	BA	75	G
57	BA	88	G
57	BA	90	U
57	BA	94	C
57	BA	100	G
57	BA	102	G
57	BA	118	A
57	BA	120	U
57	BA	129	C
57	BA	131	G
57	BA	139(A)	G
57	BA	141	A
57	BA	146	G
57	BA	154(A)	C

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Mol	Chain	Res	Type
57	BA	155	U
57	BA	156	U
57	BA	158	U
57	BA	171	G
57	BA	173	G
57	BA	174	C
57	BA	181	A
57	BA	182	A
57	BA	196	A
57	BA	197	A
57	BA	199	A
57	BA	204	A
57	BA	205	G
57	BA	215	G
57	BA	216	A
57	BA	221	A
57	BA	222	A
57	BA	228	A
57	BA	229	A
57	BA	230	U
57	BA	248	G
57	BA	252	G
57	BA	271(I)	G
57	BA	271(J)	C
57	BA	271(N)	U
57	BA	271(O)	C
57	BA	271(P)	C
57	BA	271(R)	G
57	BA	272	G
57	BA	272(B)	G
57	BA	272(H)	C
57	BA	272(I)	U
57	BA	274	G
57	BA	276	A
57	BA	277	C
57	BA	288	C
57	BA	299	A
57	BA	311	A
57	BA	329	G
57	BA	330	A
57	BA	332	A
57	BA	333	G

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Mol	Chain	Res	Type
57	BA	352	G
57	BA	353	G
57	BA	356	G
57	BA	363(B)	G
57	BA	363(E)	U
57	BA	363(F)	A
57	BA	365	C
57	BA	372	G
57	BA	386	G
57	BA	387	U
57	BA	388	G
57	BA	396	G
57	BA	405	U
57	BA	406	G
57	BA	411	G
57	BA	412	A
57	BA	428	A
57	BA	444	C
57	BA	448	U
57	BA	454	A
57	BA	456	C
57	BA	457	A
57	BA	470	A
57	BA	475	U
57	BA	481	G
57	BA	494	G
57	BA	505	A
57	BA	508	G
57	BA	509	C
57	BA	528	A
57	BA	530	G
57	BA	531	C
57	BA	532	A
57	BA	533	G
57	BA	544	G
57	BA	547	A
57	BA	548	A
57	BA	549	G
57	BA	563	G
57	BA	573	G
57	BA	588	U
57	BA	603	A

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Mol	Chain	Res	Type
57	BA	604	G
57	BA	607	U
57	BA	613	G
57	BA	614(B)	G
57	BA	615	G
57	BA	620	G
57	BA	622	G
57	BA	627	A
57	BA	637	A
57	BA	645	C
57	BA	646	A
57	BA	653	A
57	BA	654	A
57	BA	654(C)	G
57	BA	654(I)	C
57	BA	654(J)	A
57	BA	654(K)	C
57	BA	654(L)	G
57	BA	654(M)	C
57	BA	654(T)	C
57	BA	655	A
57	BA	668	G
57	BA	669	G
57	BA	670	A
57	BA	673	C
57	BA	686	G
57	BA	708	C
57	BA	717	G
57	BA	722	A
57	BA	730	C
57	BA	753	C
57	BA	765	G
57	BA	776	G
57	BA	782	A
57	BA	784	A
57	BA	785	G
57	BA	790	C
57	BA	791	C
57	BA	805	G
57	BA	812	C
57	BA	819	A
57	BA	827	U

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Mol	Chain	Res	Type
57	BA	828	U
57	BA	830	G
57	BA	848	G
57	BA	856	C
57	BA	859	G
57	BA	866	A
57	BA	869	G
57	BA	878	A
57	BA	890	A
57	BA	896	A
57	BA	897	C
57	BA	910	A
57	BA	917	A
57	BA	927	G
57	BA	932	G
57	BA	941	A
57	BA	945	A
57	BA	946	G
57	BA	958	U
57	BA	959	A
57	BA	961	C
57	BA	965	C
57	BA	974	G
57	BA	975	C
57	BA	983	A
57	BA	991	C
57	BA	996	A
57	BA	1012	U
57	BA	1013	C
57	BA	1015	G
57	BA	1022	G
57	BA	1023	U
57	BA	1025	G
57	BA	1026	U
57	BA	1039	G
57	BA	1041	C
57	BA	1045	A
57	BA	1046	A
57	BA	1047	G
57	BA	1049	C
57	BA	1052	C
57	BA	1053	C

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Mol	Chain	Res	Type
57	BA	1106	A
57	BA	1110	G
57	BA	1112	G
57	BA	1113	U
57	BA	1114	G
57	BA	1116	C
57	BA	1129	A
57	BA	1130	U
57	BA	1135	C
57	BA	1136	G
57	BA	1142	U
57	BA	1155	A
57	BA	1171	G
57	BA	1173	G
57	BA	1174	A
57	BA	1175	U
57	BA	1176	G
57	BA	1178	C
57	BA	1180	C
57	BA	1195	G
57	BA	1205	U
57	BA	1210	A
57	BA	1211	U
57	BA	1221	C
57	BA	1247	A
57	BA	1248	G
57	BA	1250	G
57	BA	1253	A
57	BA	1256	G
57	BA	1265	A
57	BA	1271	G
57	BA	1272	A
57	BA	1273	U
57	BA	1281	G
57	BA	1300	U
57	BA	1301	A
57	BA	1314	C
57	BA	1319	G
57	BA	1321	A
57	BA	1349	A
57	BA	1359	A
57	BA	1368	G

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Mol	Chain	Res	Type
57	BA	1379	A
57	BA	1380	G
57	BA	1384	A
57	BA	1385	G
57	BA	1386	C
57	BA	1390	U
57	BA	1395	A
57	BA	1406	U
57	BA	1407	C
57	BA	1416	G
57	BA	1417	C
57	BA	1419	A
57	BA	1420	U
57	BA	1427	A
57	BA	1428	C
57	BA	1445	A
57	BA	1449	A
57	BA	1450	G
57	BA	1460	A
57	BA	1461	G
57	BA	1467	C
57	BA	1471	A
57	BA	1475	G
57	BA	1478	G
57	BA	1481	U
57	BA	1482	G
57	BA	1485	G
57	BA	1488	G
57	BA	1490	A
57	BA	1491	G
57	BA	1493	C
57	BA	1494	A
57	BA	1495	A
57	BA	1497	U
57	BA	1501	C
57	BA	1502	C
57	BA	1505	C
57	BA	1509	C
57	BA	1509(A)	A
57	BA	1528(A)	A
57	BA	1534	U
57	BA	1539	G

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Mol	Chain	Res	Type
57	BA	1541	G
57	BA	1542	A
57	BA	1543	C
57	BA	1544	A
57	BA	1547	C
57	BA	1554	A
57	BA	1558	A
57	BA	1559	G
57	BA	1569	A
57	BA	1578	U
57	BA	1579	A
57	BA	1583	A
57	BA	1584	C
57	BA	1586	A
57	BA	1588	C
57	BA	1591	G
57	BA	1598	C
57	BA	1603	A
57	BA	1608	A
57	BA	1609	A
57	BA	1616	A
57	BA	1617	C
57	BA	1618	A
57	BA	1640	C
57	BA	1647	G
57	BA	1648	C
57	BA	1653	G
57	BA	1654	A
57	BA	1674	G
57	BA	1686	C
57	BA	1694	C
57	BA	1696	G
57	BA	1721	G
57	BA	1722	A
57	BA	1739	U
57	BA	1740	G
57	BA	1742	G
57	BA	1748	G
57	BA	1763	G
57	BA	1764	G
57	BA	1773	A
57	BA	1780	A

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Mol	Chain	Res	Type
57	BA	1791	A
57	BA	1799	G
57	BA	1800	C
57	BA	1801	G
57	BA	1816	G
57	BA	1820	U
57	BA	1821	A
57	BA	1829	A
57	BA	1835	G
57	BA	1838	C
57	BA	1839	G
57	BA	1846	G
57	BA	1847	A
57	BA	1848	A
57	BA	1858	G
57	BA	1865	G
57	BA	1866	C
57	BA	1878	G
57	BA	1881	C
57	BA	1882	C
57	BA	1885	A
57	BA	1888	G
57	BA	1889	A
57	BA	1900	A
57	BA	1903	G
57	BA	1906	G
57	BA	1912	A
57	BA	1913	A
57	BA	1929	G
57	BA	1930	G
57	BA	1938	A
57	BA	1948	G
57	BA	1949	G
57	BA	1955	U
57	BA	1963	U
57	BA	1966	A
57	BA	1967	C
57	BA	1969	A
57	BA	1970	A
57	BA	1971	A
57	BA	1972	A
57	BA	1982	C

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Mol	Chain	Res	Type
57	BA	1987	G
57	BA	1991	U
57	BA	1992	G
57	BA	1993	U
57	BA	1997	G
57	BA	2023	G
57	BA	2031	A
57	BA	2032	G
57	BA	2033	A
57	BA	2034	U
57	BA	2036	C
57	BA	2037	G
57	BA	2043	C
57	BA	2055	C
57	BA	2056	G
57	BA	2060	A
57	BA	2061	G
57	BA	2062	A
57	BA	2063	C
57	BA	2069	G
57	BA	2093	G
57	BA	2096	U
57	BA	2100	G
57	BA	2103	C
57	BA	2104	G
57	BA	2110	G
57	BA	2112	G
57	BA	2116	G
57	BA	2118	U
57	BA	2127	G
57	BA	2131	G
57	BA	2132	U
57	BA	2133	G
57	BA	2148	G
57	BA	2159	G
57	BA	2172	U
57	BA	2173	A
57	BA	2177	C
57	BA	2179	C
57	BA	2180	U
57	BA	2185	C
57	BA	2187	G

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Mol	Chain	Res	Type
57	BA	2189	U
57	BA	2190	G
57	BA	2192	G
57	BA	2193	G
57	BA	2198	A
57	BA	2199	A
57	BA	2200	C
57	BA	2206	G
57	BA	2207	G
57	BA	2208	A
57	BA	2218	U
57	BA	2225	A
57	BA	2226	C
57	BA	2238	G
57	BA	2239	G
57	BA	2275	C
57	BA	2283	C
57	BA	2287	A
57	BA	2288	A
57	BA	2302	G
57	BA	2305	A
57	BA	2307	G
57	BA	2308	G
57	BA	2309	A
57	BA	2311	A
57	BA	2313	C
57	BA	2316	C
57	BA	2319	G
57	BA	2320	A
57	BA	2334	G
57	BA	2336	A
57	BA	2347	C
57	BA	2350	C
57	BA	2360	A
57	BA	2361	A
57	BA	2383	G
57	BA	2385	C
57	BA	2396	G
57	BA	2400	G
57	BA	2402	C
57	BA	2406	U
57	BA	2423	U

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Mol	Chain	Res	Type
57	BA	2424	C
57	BA	2425	A
57	BA	2429	G
57	BA	2430	A
57	BA	2435	A
57	BA	2439	A
57	BA	2441	C
57	BA	2448	A
57	BA	2459	A
57	BA	2465	C
57	BA	2468	G
57	BA	2469	A
57	BA	2470	G
57	BA	2472	G
57	BA	2476	A
57	BA	2477	C
57	BA	2482	G
57	BA	2484	G
57	BA	2491	U
57	BA	2502	G
57	BA	2505	G
57	BA	2518	A
57	BA	2520	C
57	BA	2524	G
57	BA	2529	G
57	BA	2531	A
57	BA	2542	A
57	BA	2543	G
57	BA	2554	U
57	BA	2566	A
57	BA	2567	G
57	BA	2573	C
57	BA	2582	G
57	BA	2586	C
57	BA	2602	A
57	BA	2609	U
57	BA	2611	U
57	BA	2612	C
57	BA	2615	U
57	BA	2630	G
57	BA	2657	A
57	BA	2673	G

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Mol	Chain	Res	Type
57	BA	2690	C
57	BA	2691	C
57	BA	2702	U
57	BA	2712	U
57	BA	2712(A)	A
57	BA	2713	A
57	BA	2720	U
57	BA	2726	U
57	BA	2733	A
57	BA	2752	C
57	BA	2762	G
57	BA	2765	A
57	BA	2766	G
57	BA	2778	A
57	BA	2780	G
57	BA	2787	C
57	BA	2789	C
57	BA	2790	A
57	BA	2791	C
57	BA	2794	C
57	BA	2801(A)	A
57	BA	2802	G
57	BA	2803	C
57	BA	2804	C
57	BA	2808	U
57	BA	2818	G
57	BA	2820	A
57	BA	2821	A
57	BA	2833	G
57	BA	2834	G
57	BA	2849	U
57	BA	2872	G
57	BA	2893	G
57	BA	2897	U
58	BB	2	C
58	BB	8	U
58	BB	15	A
58	BB	16	G
58	BB	19	G
58	BB	22	U
58	BB	24	G
58	BB	27	C

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Mol	Chain	Res	Type
58	BB	33	G
58	BB	41	U
58	BB	42	C
58	BB	45	A
58	BB	53	A
58	BB	67	G
58	BB	73	A
58	BB	75	G
58	BB	81	G
58	BB	82	G
58	BB	88	C
58	BB	110	G
58	BB	113	G

All (113) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
57	AA	49	A
57	AA	71	A
57	AA	74	A
57	AA	79	G
57	AA	119	A
57	AA	128	C
57	AA	221	A
57	AA	266	G
57	AA	272	G
57	AA	331	A
57	AA	332	A
57	AA	366	C
57	AA	387	U
57	AA	438	G
57	AA	474	G
57	AA	587	C
57	AA	603	A
57	AA	614(C)	A
57	AA	652	C
57	AA	746	A
57	AA	752	A
57	AA	790	C
57	AA	889	C
57	AA	1022	G
57	AA	1210	A

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Mol	Chain	Res	Type
57	AA	1286	A
57	AA	1427	A
57	AA	1490	A
57	AA	1558	A
57	AA	1608	A
57	AA	1652	A
57	AA	1653	G
57	AA	1799	G
57	AA	1819	A
57	AA	1820	U
57	AA	1846	G
57	AA	1885	A
57	AA	1948	G
57	AA	1970	A
57	AA	1992	G
57	AA	2033	A
57	AA	2036	C
57	AA	2062	A
57	AA	2126	A
57	AA	2171	A
57	AA	2191	G
57	AA	2225	A
57	AA	2282	G
57	AA	2311	A
57	AA	2405	G
57	AA	2422	A
57	AA	2439	A
57	AA	2481	G
57	AA	2611	U
57	AA	2689	U
58	AB	66	A
57	BA	49	A
57	BA	71	A
57	BA	74	A
57	BA	79	G
57	BA	119	A
57	BA	128	C
57	BA	221	A
57	BA	266	G
57	BA	272	G
57	BA	331	A
57	BA	332	A

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Mol	Chain	Res	Type
57	BA	366	C
57	BA	387	U
57	BA	438	G
57	BA	474	G
57	BA	587	C
57	BA	603	A
57	BA	614(C)	A
57	BA	652	C
57	BA	746	A
57	BA	752	A
57	BA	790	C
57	BA	889	C
57	BA	1022	G
57	BA	1210	A
57	BA	1286	A
57	BA	1427	A
57	BA	1490	A
57	BA	1558	A
57	BA	1608	A
57	BA	1652	A
57	BA	1653	G
57	BA	1799	G
57	BA	1819	A
57	BA	1820	U
57	BA	1846	G
57	BA	1885	A
57	BA	1948	G
57	BA	1970	A
57	BA	1992	G
57	BA	2033	A
57	BA	2036	C
57	BA	2062	A
57	BA	2126	A
57	BA	2171	A
57	BA	2191	G
57	BA	2225	A
57	BA	2282	G
57	BA	2311	A
57	BA	2346	A
57	BA	2405	G
57	BA	2422	A
57	BA	2439	A

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Mol	Chain	Res	Type
57	BA	2481	G
57	BA	2611	U
57	BA	2689	U
58	BB	66	A

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

4 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
24	5MU	Av	54	24	19,22,23	0.27	0	27,32,35	0.39	0
23	CCC	Bx	21	-	0,2,26	-	-	0,1,41	-	-
23	CCC	Ax	21	-	0,2,26	-	-	0,1,41	-	-
24	5MU	Bv	54	24	19,22,23	0.33	0	27,32,35	0.49	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	5MU	Av	54	24	-	0/7/25/26	0/2/2/2
24	5MU	Bv	54	24	-	0/7/25/26	0/2/2/2

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.

3 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	Av	54	5MU	1	0
23	Bx	21	CCC	5	0
24	Bv	54	5MU	3	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1072 ligands modelled in this entry, 1072 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	Ab	234/256 (91%)	0.28	7 (2%) 52 30	114, 153, 181, 193	0
1	Bb	234/256 (91%)	0.30	7 (2%) 52 30	113, 152, 181, 193	0
2	Ac	206/239 (86%)	0.30	2 (0%) 79 54	123, 150, 166, 178	0
2	Bc	206/239 (86%)	0.25	5 (2%) 59 34	124, 149, 166, 179	0
3	Ad	208/209 (99%)	0.42	9 (4%) 40 22	96, 119, 144, 155	0
3	Bd	208/209 (99%)	0.41	7 (3%) 48 27	97, 119, 145, 154	0
4	Ae	150/162 (92%)	0.13	1 (0%) 84 61	88, 114, 138, 159	0
4	Be	150/162 (92%)	0.15	1 (0%) 84 61	84, 112, 138, 160	0
5	Af	101/101 (100%)	0.03	2 (1%) 65 38	91, 121, 138, 155	0
5	Bf	101/101 (100%)	0.24	5 (4%) 34 19	91, 120, 137, 155	0
6	Ag	155/156 (99%)	0.32	8 (5%) 33 19	118, 137, 171, 188	0
6	Bg	155/156 (99%)	0.32	6 (3%) 43 24	118, 138, 171, 188	0
7	Ah	138/138 (100%)	0.27	8 (5%) 29 17	96, 117, 132, 157	0
7	Bh	138/138 (100%)	0.19	7 (5%) 33 19	95, 116, 131, 158	0
8	Ai	127/128 (99%)	0.88	16 (12%) 8 7	120, 160, 178, 186	0
8	Bi	127/128 (99%)	0.74	9 (7%) 22 14	119, 160, 178, 186	0
9	Aj	98/105 (93%)	0.70	4 (4%) 41 23	126, 164, 184, 190	0
9	Bj	98/105 (93%)	0.58	2 (2%) 65 38	124, 164, 184, 190	0
10	Ak	119/129 (92%)	0.16	3 (2%) 58 34	89, 117, 145, 171	0
10	Bk	119/129 (92%)	0.21	4 (3%) 48 27	89, 117, 144, 171	0
11	Al	124/132 (93%)	0.31	6 (4%) 35 20	75, 97, 123, 161	0
11	Bl	124/132 (93%)	0.33	6 (4%) 35 20	77, 97, 125, 162	0
12	Am	118/126 (93%)	0.80	14 (11%) 9 8	115, 143, 157, 166	0
12	Bm	118/126 (93%)	0.59	8 (6%) 23 15	115, 142, 157, 166	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	An	60/61 (98%)	1.42	15 (25%) 2 2	126, 139, 159, 162	0
13	Bn	60/61 (98%)	0.69	4 (6%) 24 15	127, 138, 159, 162	0
14	Ao	88/89 (98%)	0.05	2 (2%) 61 35	81, 110, 131, 138	0
14	Bo	88/89 (98%)	0.14	2 (2%) 61 35	81, 110, 132, 137	0
15	Ap	83/88 (94%)	0.60	2 (2%) 59 34	93, 110, 128, 148	0
15	Bp	83/88 (94%)	0.39	3 (3%) 46 26	94, 111, 130, 147	0
16	Aq	99/105 (94%)	0.24	4 (4%) 42 24	80, 107, 124, 132	0
16	Bq	99/105 (94%)	0.20	4 (4%) 42 24	80, 107, 123, 132	0
17	Ar	70/88 (79%)	0.27	3 (4%) 40 22	96, 122, 142, 158	0
17	Br	70/88 (79%)	0.20	0 100 100	95, 122, 141, 157	0
18	As	78/93 (83%)	0.62	9 (11%) 9 8	131, 153, 173, 181	0
18	Bs	78/93 (83%)	0.58	4 (5%) 33 19	130, 153, 172, 181	0
19	At	99/106 (93%)	0.49	8 (8%) 18 12	86, 114, 145, 149	0
19	Bt	99/106 (93%)	0.29	3 (3%) 52 30	86, 114, 145, 149	0
20	Au	24/27 (88%)	1.37	4 (16%) 4 5	108, 138, 162, 168	0
20	Bu	24/27 (88%)	1.69	6 (25%) 2 2	106, 137, 162, 168	0
21	Ay	94/95 (98%)	0.51	7 (7%) 20 14	118, 154, 186, 189	0
21	By	94/95 (98%)	0.45	8 (8%) 16 12	110, 146, 182, 188	0
22	Aa	1504/1504 (100%)	0.31	41 (2%) 56 32	65, 119, 193, 208	0
22	Ba	1504/1504 (100%)	0.29	36 (2%) 59 34	63, 119, 193, 208	0
23	Ax	12/14 (85%)	1.32	3 (25%) 2 2	108, 191, 198, 199	0
23	Bx	12/14 (85%)	2.62	8 (66%) 0 0	108, 191, 198, 199	0
24	Av	76/77 (98%)	0.15	1 (1%) 75 48	96, 119, 160, 163	0
24	Bv	76/77 (98%)	-0.07	1 (1%) 75 48	69, 107, 141, 167	0
25	Aw	77/77 (100%)	0.32	2 (2%) 57 33	103, 191, 201, 203	0
25	Bw	77/77 (100%)	0.12	2 (2%) 57 33	93, 188, 200, 202	0
26	AC	120/229 (52%)	0.45	6 (5%) 34 19	147, 177, 190, 193	0
26	BC	120/229 (52%)	0.46	4 (3%) 49 28	145, 177, 189, 194	0
27	AD	271/276 (98%)	0.11	9 (3%) 49 28	48, 76, 98, 121	0
27	BD	271/276 (98%)	0.07	5 (1%) 67 40	46, 75, 96, 122	0
28	AE	204/206 (99%)	0.11	4 (1%) 65 38	49, 81, 127, 149	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	BE	204/206 (99%)	0.16	8 (3%) 43 24	49, 80, 128, 148	0
29	AF	207/210 (98%)	0.04	2 (0%) 79 54	48, 89, 153, 181	0
29	BF	207/210 (98%)	0.17	4 (1%) 66 39	46, 86, 154, 180	0
30	AG	181/182 (99%)	0.39	4 (2%) 62 36	117, 142, 161, 186	0
30	BG	181/182 (99%)	0.30	3 (1%) 69 41	99, 128, 154, 175	0
31	AH	164/180 (91%)	0.39	6 (3%) 45 25	98, 127, 143, 166	0
31	BH	164/180 (91%)	0.90	21 (12%) 7 7	94, 124, 141, 164	0
32	AI	145/148 (97%)	1.30	36 (24%) 2 2	81, 154, 171, 176	0
32	BI	145/148 (97%)	1.12	27 (18%) 3 4	82, 153, 172, 176	0
33	AJ	130/173 (75%)	0.71	13 (10%) 12 10	170, 195, 202, 203	0
33	BJ	130/173 (75%)	1.13	27 (20%) 2 3	147, 180, 194, 196	0
34	AN	138/140 (98%)	0.14	3 (2%) 62 36	65, 91, 126, 138	0
34	BN	138/140 (98%)	0.34	3 (2%) 62 36	63, 88, 126, 136	0
35	AO	122/122 (100%)	-0.20	0 100 100	59, 75, 98, 122	0
35	BO	122/122 (100%)	-0.21	0 100 100	56, 74, 99, 120	0
36	AP	146/150 (97%)	0.66	10 (6%) 23 15	51, 106, 133, 169	0
36	BP	146/150 (97%)	0.82	17 (11%) 9 8	50, 104, 133, 169	0
37	AQ	140/141 (99%)	0.33	6 (4%) 40 22	75, 96, 124, 147	0
37	BQ	140/141 (99%)	0.38	5 (3%) 46 26	74, 94, 125, 147	0
38	AR	117/118 (99%)	0.14	3 (2%) 57 33	48, 80, 108, 128	0
38	BR	117/118 (99%)	0.19	4 (3%) 48 27	47, 79, 107, 127	0
39	AS	98/112 (87%)	0.94	16 (16%) 4 5	111, 137, 154, 161	0
39	BS	98/112 (87%)	1.00	14 (14%) 6 6	110, 136, 153, 162	0
40	AT	135/146 (92%)	0.34	9 (6%) 24 15	66, 92, 150, 183	0
40	BT	135/146 (92%)	0.37	6 (4%) 39 22	66, 92, 150, 183	0
41	AU	117/118 (99%)	0.09	2 (1%) 69 41	58, 81, 117, 156	0
41	BU	117/118 (99%)	0.30	3 (2%) 57 33	52, 78, 116, 158	0
42	AV	101/101 (100%)	0.15	2 (1%) 65 38	59, 106, 125, 134	0
42	BV	101/101 (100%)	0.24	1 (0%) 79 54	54, 103, 125, 134	0
43	AW	113/113 (100%)	-0.12	0 100 100	58, 73, 106, 183	0
43	BW	113/113 (100%)	-0.01	0 100 100	55, 71, 105, 183	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	AX	92/96 (95%)	0.18	2 (2%) 62 36	63, 86, 110, 120	0
44	BX	92/96 (95%)	0.36	0 100 100	56, 84, 110, 120	0
45	AY	100/110 (90%)	0.71	6 (6%) 27 17	78, 117, 153, 160	0
45	BY	100/110 (90%)	1.05	15 (15%) 5 5	74, 115, 152, 158	0
46	AZ	184/206 (89%)	0.17	1 (0%) 87 66	117, 141, 158, 188	0
46	BZ	184/206 (89%)	0.23	3 (1%) 70 43	87, 126, 150, 173	0
47	A0	84/85 (98%)	0.46	5 (5%) 27 17	81, 100, 148, 168	0
47	B0	84/85 (98%)	0.64	7 (8%) 17 12	78, 100, 148, 168	0
48	A1	93/98 (94%)	0.15	0 100 100	64, 87, 127, 137	0
48	B1	93/98 (94%)	0.22	2 (2%) 62 36	55, 82, 119, 133	0
49	A2	71/72 (98%)	0.13	1 (1%) 73 46	81, 116, 134, 156	0
49	B2	71/72 (98%)	0.06	1 (1%) 73 46	51, 85, 123, 159	0
50	A3	59/60 (98%)	0.24	1 (1%) 69 41	70, 94, 112, 162	0
50	B3	59/60 (98%)	0.29	1 (1%) 69 41	62, 91, 111, 162	0
51	A4	57/71 (80%)	0.27	1 (1%) 67 40	150, 164, 175, 177	0
51	B4	57/71 (80%)	0.55	3 (5%) 32 19	150, 164, 174, 177	0
52	A5	55/60 (91%)	0.35	2 (3%) 46 26	54, 80, 113, 119	0
52	B5	55/60 (91%)	0.24	2 (3%) 46 26	54, 78, 112, 121	0
53	A6	50/54 (92%)	1.05	9 (18%) 3 4	121, 149, 165, 175	0
53	B6	50/54 (92%)	0.97	7 (14%) 6 6	121, 149, 164, 176	0
54	A7	47/49 (95%)	0.12	1 (2%) 63 37	50, 64, 86, 133	0
54	B7	47/49 (95%)	0.04	1 (2%) 63 37	47, 60, 84, 131	0
55	A8	63/65 (96%)	0.70	3 (4%) 35 20	66, 83, 117, 146	0
55	B8	63/65 (96%)	0.76	4 (6%) 26 16	63, 83, 116, 145	0
56	A9	37/37 (100%)	1.60	12 (32%) 1 1	121, 134, 149, 151	0
56	B9	37/37 (100%)	1.30	8 (21%) 2 3	121, 132, 148, 152	0
57	AA	2848/2848 (100%)	-0.06	39 (1%) 73 46	47, 83, 185, 208	0
57	BA	2848/2848 (100%)	0.04	57 (2%) 65 38	44, 80, 185, 208	0
58	AB	119/119 (100%)	0.50	7 (5%) 28 17	90, 143, 176, 196	0
58	BB	119/119 (100%)	0.79	9 (7%) 20 13	86, 142, 175, 197	0
All	All	21500/22400 (95%)	0.27	822 (3%) 44 25	44, 108, 181, 208	0

All (822) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
32	BI	88	ILE	10.5
8	Ai	106	ALA	9.2
10	Bk	129	SER	8.8
32	AI	72	LEU	8.6
32	BI	92	VAL	8.4
57	BA	277	C	7.9
57	AA	654(H)	G	7.6
52	A5	2	ALA	7.5
47	B0	3	HIS	7.0
52	B5	2	ALA	6.6
22	Ba	89	C	6.6
32	AI	119	PRO	6.6
57	AA	654(I)	C	6.5
22	Aa	83	U	6.3
20	Bu	10	ARG	6.2
57	BA	654(E)	G	6.0
57	AA	654(L)	G	6.0
32	AI	144	VAL	5.9
32	AI	65	ALA	5.8
21	Ay	14	GLU	5.8
57	AA	654(G)	C	5.7
22	Aa	82	U	5.6
47	B0	2	ALA	5.5
32	BI	130	TYR	5.5
23	Bx	19	U	5.5
57	BA	508	G	5.5
18	As	81	ARG	5.4
57	BA	654(K)	C	5.3
28	BE	75	VAL	5.2
32	AI	97	ILE	5.2
32	BI	120	ILE	5.1
22	Ba	80	G	5.0
33	BJ	56	ASN	5.0
10	Ak	128	ALA	4.9
36	BP	51	PHE	4.9
54	A7	47	ARG	4.9
57	AA	654(J)	A	4.8
41	BU	15	LYS	4.7
57	AA	654(F)	C	4.7
57	AA	654(E)	G	4.7
31	BH	169	VAL	4.7
57	BA	654(H)	G	4.6

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Mol	Chain	Res	Type	RSRZ
58	AB	89	G	4.6
31	BH	167	GLU	4.6
8	Ai	66	ARG	4.6
32	AI	100	ALA	4.5
6	Bg	4	ARG	4.5
45	BY	92	ASN	4.5
37	BQ	140	ALA	4.5
22	Aa	1286	A	4.5
23	Bx	20	A	4.5
13	Bn	2	ALA	4.4
55	A8	48	PHE	4.4
12	Bm	102	ARG	4.3
6	Ag	85	TYR	4.3
47	A0	2	ALA	4.3
20	Bu	25	LYS	4.3
22	Ba	88	A	4.3
1	Ab	214	ILE	4.3
57	BA	1534	U	4.3
18	As	67	VAL	4.2
31	BH	155	SER	4.2
56	A9	12	ASP	4.2
56	B9	21	GLY	4.2
13	An	30	ALA	4.2
22	Ba	84	U	4.2
58	BB	88	C	4.2
21	By	83	ARG	4.2
10	Bk	128	ALA	4.1
40	BT	105	LEU	4.1
58	BB	49	C	4.1
21	By	85	GLU	4.1
32	BI	119	PRO	4.1
39	AS	12	PHE	4.1
57	BA	2802	G	4.1
18	Bs	81	ARG	4.1
32	AI	143	SER	4.0
57	AA	654(N)	G	4.0
6	Bg	83	ALA	4.0
33	BJ	43	ALA	4.0
8	Ai	109	VAL	4.0
45	BY	84	ARG	4.0
58	AB	88	C	4.0
45	BY	45	VAL	4.0

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Mol	Chain	Res	Type	RSRZ
36	BP	64	LYS	3.9
47	B0	41	ARG	3.9
58	BB	48	A	3.9
57	AA	654(K)	C	3.9
36	BP	28	GLY	3.9
6	Ag	83	ALA	3.9
22	Ba	1286	A	3.9
26	AC	172	ILE	3.9
57	AA	2803	C	3.9
26	BC	176	VAL	3.9
31	BH	44	VAL	3.9
36	AP	27	HIS	3.9
3	Bd	31	CYS	3.9
22	Aa	1202	G	3.9
58	AB	87	G	3.9
37	AQ	22	LYS	3.9
27	BD	35	LYS	3.8
8	Ai	115	GLY	3.8
51	B4	1	MET	3.8
57	BA	654(F)	C	3.8
57	AA	1026	U	3.8
40	BT	85	LYS	3.8
32	BI	97	ILE	3.8
40	AT	11	GLU	3.8
30	BG	35	GLU	3.8
13	An	25	VAL	3.8
27	BD	36	PRO	3.8
32	AI	93	THR	3.7
57	BA	654(V)	A	3.7
13	An	7	ILE	3.7
28	BE	76	ARG	3.7
3	Ad	31	CYS	3.7
12	Am	88	ARG	3.7
15	Ap	26	ARG	3.7
46	BZ	88	PHE	3.7
22	Aa	454	C	3.7
46	BZ	80	ARG	3.6
39	BS	12	PHE	3.6
56	B9	2	LYS	3.6
21	By	87	TYR	3.6
21	Ay	10	ARG	3.6
23	Bx	18	G	3.6

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Mol	Chain	Res	Type	RSRZ
19	Bt	80	ARG	3.6
36	BP	43	GLY	3.6
39	AS	11	LYS	3.6
56	A9	21	GLY	3.6
57	BA	1026	U	3.6
32	BI	94	ALA	3.6
57	BA	11	G	3.6
39	BS	14	VAL	3.5
23	Bx	13	A	3.5
41	AU	97	ASP	3.5
36	BP	68	GLN	3.5
45	BY	47	LYS	3.5
32	BI	114	LEU	3.5
31	BH	53	GLU	3.5
47	A0	74	ARG	3.5
33	BJ	34	ALA	3.5
55	A8	35	GLN	3.5
42	BV	36	PRO	3.5
57	AA	2802	G	3.5
58	BB	87	G	3.5
32	AI	118	LYS	3.5
22	Aa	89	C	3.5
57	BA	1053	C	3.5
32	AI	109	ILE	3.5
31	BH	158	HIS	3.5
57	BA	1541	G	3.5
26	AC	176	VAL	3.5
12	Am	100	GLY	3.5
8	Bi	128	ARG	3.5
15	Bp	13	HIS	3.5
22	Aa	81	U	3.4
3	Ad	161	ASN	3.4
53	A6	22	ALA	3.4
2	Bc	87	LEU	3.4
12	Am	7	VAL	3.4
33	AJ	13	LEU	3.4
57	BA	271	A	3.4
37	AQ	140	ALA	3.4
7	Ah	4	ASP	3.4
22	Aa	84	U	3.4
22	Ba	81	U	3.4
32	AI	110	ASP	3.4

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Mol	Chain	Res	Type	RSRZ
27	BD	244	ARG	3.4
11	Al	28	LYS	3.4
56	A9	2	LYS	3.4
56	B9	18	ARG	3.4
32	AI	68	LEU	3.3
8	Bi	13	ALA	3.3
40	AT	85	LYS	3.3
6	Ag	82	GLY	3.3
32	BI	84	GLY	3.3
19	At	14	LYS	3.3
53	A6	37	ARG	3.3
6	Ag	99	LEU	3.3
33	AJ	83	TYR	3.3
30	AG	2	PRO	3.3
57	AA	654(D)	G	3.3
58	BB	86	G	3.3
6	Bg	84	ASN	3.3
32	AI	120	ILE	3.3
39	AS	18	ILE	3.3
38	AR	3	HIS	3.3
32	BI	118	LYS	3.3
33	BJ	17	LEU	3.3
40	AT	115	ARG	3.3
56	A9	22	ARG	3.3
22	Ba	90	U	3.3
57	BA	654(G)	C	3.3
58	BB	47	C	3.3
32	AI	81	VAL	3.3
32	BI	143	SER	3.3
31	BH	164	TYR	3.3
18	Bs	67	VAL	3.2
39	BS	11	LYS	3.2
57	BA	1535	A	3.2
22	Aa	971	G	3.2
57	AA	2795	G	3.2
1	Ab	163	PHE	3.2
28	AE	149	ARG	3.2
33	BJ	109	SER	3.2
20	Bu	14	TRP	3.2
33	BJ	37	THR	3.2
28	BE	53	PRO	3.2
57	AA	654(T)	C	3.2

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Mol	Chain	Res	Type	RSRZ
57	BA	654(T)	C	3.2
57	BA	278	A	3.2
57	BA	2062	A	3.2
40	AT	2	ASN	3.2
39	BS	91	PRO	3.2
52	A5	3	LYS	3.2
22	Aa	983	A	3.2
22	Ba	877	C	3.2
32	BI	87	LYS	3.2
57	BA	654(S)	G	3.2
36	AP	51	PHE	3.2
10	Ak	129	SER	3.2
45	AY	82	PRO	3.2
58	AB	90	A	3.1
12	Am	102	ARG	3.1
8	Bi	106	ALA	3.1
30	BG	46	ALA	3.1
51	A4	50	VAL	3.1
56	A9	23	VAL	3.1
22	Aa	1117	G	3.1
57	AA	2894	G	3.1
18	As	80	TYR	3.1
37	AQ	136	ALA	3.1
57	AA	2801(A)	A	3.1
40	BT	11	GLU	3.1
36	BP	7	ARG	3.1
57	BA	2310	A	3.1
32	BI	89	TYR	3.1
37	BQ	136	ALA	3.1
26	BC	177	GLY	3.1
57	BA	2120	G	3.1
9	Aj	61	GLU	3.1
32	BI	132	PRO	3.1
29	BF	23	ASP	3.1
57	BA	1046	A	3.1
22	Aa	1249	C	3.1
32	AI	92	VAL	3.0
21	Ay	13	LYS	3.0
39	AS	54	LEU	3.0
36	AP	87	ASP	3.0
38	BR	3	HIS	3.0
31	BH	43	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
19	At	12	ALA	3.0
22	Ba	5	U	3.0
13	An	58	LYS	3.0
5	Bf	90	VAL	3.0
24	Av	1	C	3.0
31	BH	42	ARG	3.0
7	Ah	99	GLU	3.0
47	A0	19	LYS	3.0
6	Ag	81	GLY	3.0
33	BJ	52	PHE	3.0
2	Bc	91	LEU	3.0
32	AI	142	VAL	3.0
57	AA	508	G	3.0
33	AJ	86	PRO	3.0
47	B0	42	GLY	3.0
15	Ap	25	ARG	3.0
33	BJ	41	ARG	3.0
8	Ai	125	TYR	2.9
13	An	46	GLU	2.9
32	AI	111	PRO	2.9
48	B1	95	LEU	2.9
6	Ag	32	ARG	2.9
13	An	18	VAL	2.9
36	BP	15	ARG	2.9
32	AI	59	ALA	2.9
33	BJ	88	ALA	2.9
8	Ai	105	ASP	2.9
56	A9	26	ILE	2.9
21	By	82	GLU	2.9
39	BS	13	ARG	2.9
13	Bn	50	LYS	2.9
40	BT	2	ASN	2.9
32	BI	90	GLY	2.9
32	AI	108	THR	2.9
22	Ba	971	G	2.9
47	B0	19	LYS	2.9
22	Ba	1281	U	2.9
12	Bm	8	GLU	2.9
40	AT	1	MET	2.9
45	BY	85	VAL	2.9
22	Aa	1285	A	2.9
20	Bu	9	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
22	Ba	82	U	2.9
22	Ba	1387	G	2.9
32	AI	101	LEU	2.9
5	Bf	50	TYR	2.9
3	Bd	32	ALA	2.8
22	Aa	979	C	2.8
6	Bg	5	ARG	2.8
22	Aa	80	G	2.8
5	Bf	88	VAL	2.8
33	BJ	18	GLU	2.8
39	AS	98	VAL	2.8
3	Bd	96	LEU	2.8
33	AJ	9	LEU	2.8
12	Bm	2	ALA	2.8
20	Au	25	LYS	2.8
8	Bi	108	VAL	2.8
32	BI	65	ALA	2.8
1	Bb	8	LYS	2.8
32	AI	79	ILE	2.8
45	AY	77	PRO	2.8
45	BY	7	VAL	2.8
6	Ag	84	ASN	2.8
27	AD	235	GLY	2.8
31	BH	48	GLY	2.8
36	BP	26	GLY	2.8
28	AE	76	ARG	2.8
12	Bm	10	PRO	2.8
57	AA	2179	C	2.8
57	BA	1052	C	2.8
7	Ah	1	MET	2.8
31	BH	156	ALA	2.8
12	Am	99	ARG	2.8
32	BI	111	PRO	2.8
36	AP	24	GLY	2.8
57	BA	90	U	2.8
20	Au	6	ARG	2.7
45	AY	45	VAL	2.7
12	Am	65	LYS	2.7
16	Aq	100	LYS	2.7
2	Bc	9	GLY	2.7
6	Bg	82	GLY	2.7
37	BQ	12	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
22	Ba	1030(A)	G	2.7
45	AY	44	ILE	2.7
31	BH	45	VAL	2.7
32	AI	106	GLY	2.7
32	AI	122	GLU	2.7
20	Bu	6	ARG	2.7
38	BR	10	LEU	2.7
22	Ba	91	C	2.7
22	Ba	1030(B)	C	2.7
45	BY	44	ILE	2.7
7	Bh	93	VAL	2.7
22	Ba	755	G	2.7
39	AS	36	TYR	2.7
1	Ab	141	GLU	2.7
12	Bm	99	ARG	2.7
27	AD	217	ARG	2.7
18	As	79	THR	2.7
11	Bl	91	LYS	2.7
16	Bq	35	VAL	2.7
22	Ba	63	C	2.7
22	Ba	979	C	2.7
32	AI	140	LEU	2.7
33	BJ	110	GLY	2.7
39	BS	100	ALA	2.7
30	AG	36	LYS	2.7
57	AA	278	A	2.7
22	Aa	1364	U	2.7
45	BY	82	PRO	2.7
56	A9	18	ARG	2.7
32	BI	98	ALA	2.7
10	Ak	119	CYS	2.7
2	Bc	47	LEU	2.7
26	AC	197	LEU	2.7
36	BP	27	HIS	2.6
28	BE	61	ARG	2.6
32	AI	88	ILE	2.6
16	Bq	37	LYS	2.6
23	Ax	20	A	2.6
22	Aa	90	U	2.6
12	Am	66	LEU	2.6
40	AT	105	LEU	2.6
18	Bs	4	SER	2.6

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Mol	Chain	Res	Type	RSRZ
57	AA	2120	G	2.6
57	BA	2894	G	2.6
19	At	22	ARG	2.6
33	BJ	19	ARG	2.6
40	AT	91	ARG	2.6
47	A0	3	HIS	2.6
12	Am	10	PRO	2.6
22	Ba	1030	C	2.6
32	BI	41	GLU	2.6
26	AC	193	PHE	2.6
26	BC	42	VAL	2.6
8	Ai	104	ARG	2.6
57	AA	276	A	2.6
57	BA	271(A)	A	2.6
57	BA	2119	A	2.6
11	Bl	28	LYS	2.6
11	Bl	47	LYS	2.6
33	BJ	108	LYS	2.6
53	B6	38	LYS	2.6
36	BP	20	GLY	2.6
6	Bg	85	TYR	2.6
33	AJ	10	LEU	2.6
57	BA	1740	G	2.6
56	B9	33	LYS	2.6
7	Bh	1	MET	2.6
53	A6	42	TRP	2.6
13	An	50	LYS	2.6
8	Ai	43	ALA	2.6
53	A6	40	CYS	2.6
8	Bi	10	ARG	2.6
41	BU	58	ARG	2.6
45	BY	2	ARG	2.6
36	AP	82	GLY	2.6
19	Bt	14	LYS	2.5
27	AD	35	LYS	2.5
53	A6	38	LYS	2.5
56	A9	35	ARG	2.5
1	Ab	70	PHE	2.5
40	BT	92	GLY	2.5
39	AS	57	LYS	2.5
9	Bj	43	ARG	2.5
19	Bt	11	SER	2.5

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Mol	Chain	Res	Type	RSRZ
20	Au	14	TRP	2.5
29	BF	72	ARG	2.5
36	BP	40	SER	2.5
14	Bo	60	VAL	2.5
47	B0	4	LYS	2.5
33	BJ	57	THR	2.5
39	BS	50	SER	2.5
10	Bk	42	TRP	2.5
33	AJ	84	GLU	2.5
39	AS	14	VAL	2.5
39	AS	73	LEU	2.5
57	AA	654(S)	G	2.5
57	AA	654(P)	C	2.5
6	Ag	86	GLN	2.5
32	BI	138	ILE	2.5
38	AR	9	LYS	2.5
36	BP	65	ARG	2.5
16	Bq	100	LYS	2.5
32	AI	121	LYS	2.5
33	AJ	119	ALA	2.5
37	AQ	68	ILE	2.5
53	A6	13	CYS	2.5
8	Ai	128	ARG	2.5
36	BP	16	ARG	2.5
32	AI	91	SER	2.5
32	AI	107	VAL	2.5
53	A6	21	TYR	2.5
22	Ba	1317	C	2.5
57	BA	2295	C	2.5
57	BA	2803	C	2.5
22	Ba	631	G	2.5
57	AA	1541	G	2.5
22	Aa	1281	U	2.5
22	Ba	83	U	2.5
36	BP	107	LYS	2.5
41	BU	13	LYS	2.5
39	AS	91	PRO	2.5
1	Bb	96	ARG	2.5
36	AP	28	GLY	2.5
36	AP	33	ARG	2.5
38	BR	105	ARG	2.5
47	A0	71	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
54	B7	47	ARG	2.5
1	Bb	148	TYR	2.5
16	Aq	24	GLU	2.4
36	AP	52	GLU	2.4
39	AS	33	LYS	2.4
22	Aa	980	C	2.4
22	Aa	1223	C	2.4
24	Bv	1	C	2.4
21	By	88	SER	2.4
53	B6	23	THR	2.4
22	Aa	1287	A	2.4
22	Ba	1241	G	2.4
55	B8	64	TYR	2.4
12	Am	73	GLU	2.4
12	Am	84	ILE	2.4
13	An	8	GLU	2.4
28	BE	159	HIS	2.4
32	AI	66	GLU	2.4
30	BG	87	PRO	2.4
13	An	55	GLY	2.4
8	Bi	105	ASP	2.4
33	BJ	53	VAL	2.4
45	BY	33	LYS	2.4
13	An	21	TYR	2.4
46	AZ	150	LEU	2.4
22	Aa	1027	C	2.4
27	AD	244	ARG	2.4
41	AU	58	ARG	2.4
57	AA	90	U	2.4
57	AA	654(M)	C	2.4
57	AA	2178	C	2.4
57	BA	12	U	2.4
57	BA	2179	C	2.4
57	BA	2794	C	2.4
22	Ba	1503	A	2.4
7	Ah	131	GLY	2.4
22	Ba	823	G	2.4
23	Bx	10	G	2.4
32	AI	95	LYS	2.4
32	BI	93	THR	2.4
16	Aq	95	TYR	2.4
53	A6	39	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
21	By	56	ARG	2.4
39	BS	16	ASN	2.4
7	Bh	3	THR	2.4
23	Bx	11	U	2.4
57	BA	1033	U	2.4
13	An	39	LEU	2.4
38	AR	10	LEU	2.4
32	AI	96	ASP	2.4
22	Ba	1285	A	2.4
57	AA	1048	A	2.4
34	AN	68	GLU	2.4
37	BQ	10	ARG	2.4
22	Ba	1186	G	2.4
33	BJ	102	LYS	2.4
57	BA	2793	G	2.4
57	BA	2891	G	2.4
1	Bb	163	PHE	2.4
5	Af	90	VAL	2.4
28	BE	127	ASP	2.4
36	BP	52	GLU	2.4
10	Bk	127	LYS	2.4
33	BJ	55	LYS	2.4
47	B0	5	LYS	2.4
31	AH	158	HIS	2.3
3	Bd	9	CYS	2.3
29	BF	156	LEU	2.3
31	BH	7	LEU	2.3
7	Ah	3	THR	2.3
53	A6	23	THR	2.3
28	AE	151	TYR	2.3
18	As	75	ALA	2.3
22	Ba	933	G	2.3
52	B5	3	LYS	2.3
26	AC	174	ALA	2.3
45	BY	91	GLU	2.3
55	A8	51	ALA	2.3
33	AJ	38	HIS	2.3
27	BD	12	SER	2.3
9	Aj	69	ASN	2.3
30	AG	70	VAL	2.3
31	BH	69	ARG	2.3
57	AA	1534	U	2.3

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Mol	Chain	Res	Type	RSRZ
11	Al	47	LYS	2.3
42	AV	74	LYS	2.3
23	Ax	13	A	2.3
8	Ai	110	GLU	2.3
25	Aw	74	C	2.3
27	AD	83	GLU	2.3
27	AD	169	GLU	2.3
33	AJ	85	ASP	2.3
56	A9	36	GLN	2.3
58	AB	12	C	2.3
7	Ah	83	ILE	2.3
32	AI	77	LEU	2.3
19	At	73	HIS	2.3
29	AF	131	GLY	2.3
8	Ai	127	LYS	2.3
34	BN	12	ARG	2.3
50	A3	17	LYS	2.3
53	B6	40	CYS	2.3
56	A9	1	MET	2.3
7	Bh	94	TYR	2.3
8	Ai	40	LEU	2.3
8	Bi	76	ALA	2.3
13	An	5	ALA	2.3
27	AD	272	ALA	2.3
32	AI	128	LEU	2.3
28	AE	127	ASP	2.3
57	AA	271(K)	U	2.3
5	Bf	7	ASN	2.3
19	At	74	LYS	2.3
22	Aa	968	A	2.3
22	Ba	1531	A	2.3
44	AX	60	ARG	2.3
45	AY	28	LYS	2.3
53	B6	37	ARG	2.3
57	AA	2801	A	2.3
22	Aa	1226	C	2.3
42	AV	20	LEU	2.3
11	Bl	32	PHE	2.3
37	AQ	12	GLN	2.3
7	Bh	99	GLU	2.3
53	B6	12	GLU	2.3
9	Aj	44	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
11	Bl	25	PRO	2.3
11	Bl	101	VAL	2.3
13	An	56	VAL	2.3
33	BJ	107	VAL	2.3
56	B9	35	ARG	2.3
22	Aa	1224	G	2.3
58	AB	119	G	2.3
31	AH	7	LEU	2.3
22	Aa	1219	U	2.3
3	Ad	26	CYS	2.3
39	BS	36	TYR	2.3
14	Ao	52	SER	2.3
22	Aa	1306	A	2.3
37	AQ	139	GLU	2.3
58	BB	90	A	2.3
3	Ad	84	LYS	2.3
17	Ar	68	LYS	2.3
22	Aa	1317	C	2.3
28	BE	64	LYS	2.3
31	AH	168	PRO	2.3
56	B9	37	GLY	2.3
57	AA	2799	C	2.3
57	BA	654(I)	C	2.3
3	Bd	115	ARG	2.3
32	BI	105	HIS	2.2
21	Ay	17	LYS	2.2
31	BH	124	GLU	2.2
22	Aa	1220	G	2.2
22	Ba	1117	G	2.2
22	Ba	1224	G	2.2
22	Ba	1364	U	2.2
39	BS	30	ARG	2.2
55	B8	46	ARG	2.2
57	BA	2673	G	2.2
40	BT	27	THR	2.2
56	A9	20	HIS	2.2
23	Ax	14	A	2.2
23	Bx	14	A	2.2
32	AI	139	GLN	2.2
12	Bm	7	VAL	2.2
32	BI	85	GLU	2.2
12	Am	70	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
20	Au	2	GLY	2.2
39	BS	89	ARG	2.2
26	BC	227	PRO	2.2
33	BJ	13	LEU	2.2
34	BN	138	LEU	2.2
5	Af	8	ILE	2.2
1	Bb	152	PHE	2.2
32	BI	110	ASP	2.2
33	AJ	56	ASN	2.2
9	Aj	62	HIS	2.2
32	AI	105	HIS	2.2
27	BD	38	LYS	2.2
57	AA	2893	G	2.2
57	BA	272(B)	G	2.2
58	BB	89	G	2.2
58	BB	115	G	2.2
12	Bm	98	VAL	2.2
31	BH	116	GLU	2.2
3	Ad	12	CYS	2.2
57	AA	34	C	2.2
7	Bh	4	ASP	2.2
44	AX	72	LYS	2.2
2	Ac	137	ALA	2.2
39	AS	100	ALA	2.2
53	B6	42	TRP	2.2
55	B8	34	TRP	2.2
7	Ah	92	ARG	2.2
31	AH	71	LEU	2.2
39	AS	63	THR	2.2
40	AT	27	THR	2.2
45	BY	101	LYS	2.2
13	An	59	ALA	2.2
53	B6	22	ALA	2.2
27	AD	32	SER	2.2
57	AA	2062	A	2.2
57	BA	654(J)	A	2.2
12	Am	54	VAL	2.2
29	AF	163	VAL	2.2
55	B8	22	VAL	2.2
11	Al	31	PRO	2.2
22	Aa	63	C	2.2
22	Ba	985	C	2.2

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Mol	Chain	Res	Type	RSRZ
57	BA	34	C	2.2
57	BA	2402	C	2.2
11	Al	17	LYS	2.2
27	AD	5	LYS	2.2
31	AH	129	THR	2.2
32	BI	86	THR	2.2
39	BS	93	LYS	2.2
19	At	9	ASN	2.2
32	AI	63	ALA	2.1
33	BJ	89	ALA	2.1
3	Ad	9	CYS	2.1
33	BJ	38	HIS	2.1
34	BN	134	ARG	2.1
36	BP	47	ASP	2.1
49	B2	69	ARG	2.1
56	B9	36	GLN	2.1
18	As	41	VAL	2.1
31	BH	133	VAL	2.1
32	BI	136	VAL	2.1
14	Ao	5	LYS	2.1
21	Ay	46	GLY	2.1
21	By	13	LYS	2.1
22	Aa	1503	A	2.1
23	Bx	16	A	2.1
1	Bb	196	LEU	2.1
12	Bm	56	LEU	2.1
16	Bq	43	LEU	2.1
45	BY	5	MET	2.1
57	BA	1107	G	2.1
57	BA	2805	G	2.1
4	Ae	86	ALA	2.1
9	Bj	69	ASN	2.1
33	AJ	11	ALA	2.1
31	BH	170	ARG	2.1
22	Aa	47	C	2.1
22	Aa	1363	C	2.1
25	Bw	34	C	2.1
57	AA	1049	C	2.1
57	BA	2174	C	2.1
58	AB	6	C	2.1
18	As	13	ASP	2.1
15	Bp	2	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
16	Aq	35	VAL	2.1
51	B4	56	VAL	2.1
3	Bd	4	TYR	2.1
29	BF	24	LEU	2.1
33	BJ	51	LEU	2.1
39	BS	32	LEU	2.1
46	BZ	28	MET	2.1
13	An	2	ALA	2.1
38	BR	11	ASN	2.1
18	As	4	SER	2.1
28	BE	77	ILE	2.1
1	Bb	136	VAL	2.1
11	Al	18	VAL	2.1
34	AN	2	LYS	2.1
39	AS	28	VAL	2.1
57	BA	2801(A)	A	2.1
21	Ay	87	TYR	2.1
33	BJ	33	PRO	2.1
36	AP	62	LEU	2.1
12	Am	103	THR	2.1
34	AN	1	MET	2.1
57	BA	2334	G	2.1
57	BA	1217	C	2.1
3	Ad	199	ASN	2.1
13	Bn	42	ILE	2.1
51	B4	2	LYS	2.1
8	Ai	41	VAL	2.1
8	Ai	108	VAL	2.1
22	Ba	950	U	2.1
11	Al	120	TYR	2.1
33	BJ	9	LEU	2.1
20	Bu	8	THR	2.1
22	Aa	996	A	2.1
40	AT	130	ALA	2.1
48	B1	81	LYS	2.1
50	B3	59	VAL	2.1
4	Be	133	TYR	2.1
8	Bi	72	GLY	2.1
22	Ba	1066	C	2.1
1	Ab	97	TRP	2.1
22	Aa	1233	G	2.1
25	Bw	5	G	2.1

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Mol	Chain	Res	Type	RSRZ
57	BA	271(W)	G	2.1
57	BA	654(D)	G	2.1
45	BY	77	PRO	2.1
5	Bf	8	ILE	2.1
19	At	21	LYS	2.1
45	BY	79	CYS	2.1
15	Bp	7	ALA	2.1
36	AP	68	GLN	2.1
30	AG	53	LEU	2.1
31	BH	52	VAL	2.1
7	Bh	89	PRO	2.0
22	Aa	728	A	2.0
22	Aa	977	A	2.0
22	Aa	978	A	2.0
22	Aa	1225	A	2.0
45	AY	10	GLY	2.0
14	Bo	64	ARG	2.0
33	BJ	85	ASP	2.0
36	BP	33	ARG	2.0
1	Ab	8	LYS	2.0
3	Bd	151	LYS	2.0
8	Ai	11	LYS	2.0
18	As	40	ILE	2.0
21	By	54	LYS	2.0
49	A2	29	LYS	2.0
33	AJ	34	ALA	2.0
2	Ac	91	LEU	2.0
22	Aa	110	C	2.0
32	BI	144	VAL	2.0
56	A9	3	VAL	2.0
57	BA	271(B)	C	2.0
56	B9	1	MET	2.0
57	AA	2793	G	2.0
57	BA	10	G	2.0
57	BA	338	G	2.0
57	BA	2125	G	2.0
25	Aw	55	U	2.0
33	BJ	103	GLY	2.0
21	Ay	64	TYR	2.0
13	Bn	3	ARG	2.0
17	Ar	71	LYS	2.0
8	Ai	64	THR	2.0

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Mol	Chain	Res	Type	RSRZ
39	AS	35	ILE	2.0
1	Ab	187	LEU	2.0
2	Bc	53	ALA	2.0
7	Ah	2	LEU	2.0
17	Ar	31	LEU	2.0
19	At	11	SER	2.0
31	BH	50	VAL	2.0
57	BA	1542	A	2.0
31	AH	69	ARG	2.0
39	AS	99	LYS	2.0
31	BH	157	TYR	2.0
39	BS	97	ARG	2.0
8	Bi	117	HIS	2.0
26	AC	169	THR	2.0
3	Ad	156	GLU	2.0
22	Aa	1327	C	2.0
57	AA	654(R)	C	2.0
57	BA	1049	C	2.0
18	Bs	5	LEU	2.0
3	Ad	137	SER	2.0
12	Am	2	ALA	2.0
33	AJ	62	ALA	2.0
33	BJ	87	VAL	2.0
37	BQ	81	VAL	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
24	5MU	Av	54	21/22	0.83	0.10	130,133,148,148	0
24	5MU	Bv	54	21/22	0.87	0.11	114,116,124,125	0
23	CCC	Bx	21	3/24	0.96	0.46	20,20,20,20	0
23	CCC	Ax	21	3/24	0.96	0.44	20,20,20,20	0

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3262	1/1	-0.07	0.26	81,81,81,81	0
60	MG	Aa	1727	1/1	0.05	0.46	98,98,98,98	1
60	MG	Aa	1601	1/1	0.05	0.35	123,123,123,123	0
60	MG	Aa	1742	1/1	0.19	0.31	106,106,106,106	0
60	MG	Aa	1648	1/1	0.27	0.22	121,121,121,121	0
60	MG	Ba	1665	1/1	0.31	0.48	144,144,144,144	0
60	MG	Ba	1708	1/1	0.32	0.13	132,132,132,132	0
60	MG	Aa	1663	1/1	0.34	0.22	112,112,112,112	0
60	MG	Aa	1713	1/1	0.35	0.41	98,98,98,98	0
60	MG	BA	3258	1/1	0.35	0.31	84,84,84,84	0
60	MG	Aa	1669	1/1	0.36	0.41	122,122,122,122	0
60	MG	Ba	1715	1/1	0.36	0.16	94,94,94,94	0
60	MG	AA	3210	1/1	0.36	0.21	115,115,115,115	0
60	MG	AA	3263	1/1	0.37	0.16	75,75,75,75	0
60	MG	Aa	1704	1/1	0.39	0.27	29,29,29,29	1
60	MG	Ba	1713	1/1	0.39	0.32	83,83,83,83	0
60	MG	AA	3154	1/1	0.40	0.11	142,142,142,142	0
60	MG	Ba	1681	1/1	0.40	0.47	122,122,122,122	0
60	MG	Ba	1712	1/1	0.42	0.22	79,79,79,79	0
60	MG	Bw	101	1/1	0.43	0.19	132,132,132,132	1
60	MG	Aa	1700	1/1	0.44	0.46	114,114,114,114	0
60	MG	Ba	1729	1/1	0.44	0.36	66,66,66,66	0
60	MG	AA	3132	1/1	0.48	0.27	78,78,78,78	0
60	MG	Aa	1679	1/1	0.48	0.18	116,116,116,116	0
60	MG	Ba	1663	1/1	0.48	0.22	85,85,85,85	0
60	MG	Aa	1703	1/1	0.48	0.40	94,94,94,94	0
60	MG	Ba	1692	1/1	0.49	0.31	83,83,83,83	0
60	MG	AA	3240	1/1	0.49	0.33	106,106,106,106	0
60	MG	Ba	1724	1/1	0.50	0.27	68,68,68,68	0
60	MG	Ba	1737	1/1	0.50	0.37	76,76,76,76	0
60	MG	Ba	1707	1/1	0.51	0.28	76,76,76,76	0
60	MG	Bv	104	1/1	0.51	0.33	75,75,75,75	1
60	MG	AA	3192	1/1	0.52	0.30	101,101,101,101	0
60	MG	AA	3117	1/1	0.52	0.52	148,148,148,148	0
60	MG	Ba	1644	1/1	0.53	0.27	67,67,67,67	0
60	MG	AA	3134	1/1	0.53	0.23	98,98,98,98	0
60	MG	BA	3207	1/1	0.54	0.18	118,118,118,118	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3088	1/1	0.54	0.27	85,85,85,85	0
60	MG	Ba	1721	1/1	0.55	0.22	92,92,92,92	0
60	MG	BA	3198	1/1	0.55	0.41	91,91,91,91	0
60	MG	Ba	1695	1/1	0.56	0.14	86,86,86,86	0
60	MG	Aa	1675	1/1	0.56	0.32	72,72,72,72	0
60	MG	BA	3151	1/1	0.56	0.30	119,119,119,119	0
60	MG	Ba	1677	1/1	0.56	0.13	138,138,138,138	0
60	MG	AA	3168	1/1	0.56	0.12	82,82,82,82	0
60	MG	BA	3233	1/1	0.56	0.39	97,97,97,97	0
60	MG	Aa	1725	1/1	0.56	0.25	74,74,74,74	0
60	MG	BA	3131	1/1	0.57	0.27	96,96,96,96	0
60	MG	Ba	1653	1/1	0.57	0.19	74,74,74,74	0
60	MG	AA	2943	1/1	0.58	0.29	70,70,70,70	0
60	MG	Aa	1602	1/1	0.58	0.44	126,126,126,126	0
60	MG	AA	3245	1/1	0.58	0.17	97,97,97,97	0
60	MG	AA	3256	1/1	0.58	0.27	71,71,71,71	0
60	MG	BA	3180	1/1	0.58	0.41	105,105,105,105	0
60	MG	AA	3260	1/1	0.58	0.37	80,80,80,80	0
60	MG	AA	3155	1/1	0.58	0.17	92,92,92,92	1
60	MG	Aa	1698	1/1	0.58	0.36	98,98,98,98	1
60	MG	Aa	1676	1/1	0.58	0.34	90,90,90,90	1
60	MG	BA	3261	1/1	0.58	0.26	68,68,68,68	0
60	MG	AA	3100	1/1	0.59	0.38	97,97,97,97	0
60	MG	Aa	1646	1/1	0.59	0.28	102,102,102,102	0
60	MG	BA	2958	1/1	0.60	0.40	88,88,88,88	0
60	MG	BA	3126	1/1	0.60	0.22	122,122,122,122	0
60	MG	AA	3162	1/1	0.60	0.36	94,94,94,94	0
60	MG	AA	3248	1/1	0.60	0.42	106,106,106,106	0
60	MG	Ba	1733	1/1	0.60	0.19	86,86,86,86	0
60	MG	AA	3153	1/1	0.61	0.27	71,71,71,71	0
60	MG	Ae	201	1/1	0.61	0.41	108,108,108,108	0
60	MG	Aa	1688	1/1	0.62	0.13	63,63,63,63	1
60	MG	BA	2945	1/1	0.62	0.21	112,112,112,112	0
60	MG	Ba	1601	1/1	0.62	0.34	90,90,90,90	0
60	MG	AA	3073	1/1	0.62	0.36	78,78,78,78	0
60	MG	BA	3257	1/1	0.63	0.19	72,72,72,72	0
60	MG	BA	3225	1/1	0.63	0.27	38,38,38,38	0
60	MG	AA	3231	1/1	0.63	0.28	51,51,51,51	0
60	MG	AA	3061	1/1	0.64	0.33	42,42,42,42	0
60	MG	Aa	1647	1/1	0.64	0.19	138,138,138,138	0
60	MG	AA	3109	1/1	0.65	0.30	78,78,78,78	0
60	MG	Ba	1656	1/1	0.65	0.16	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Aa	1723	1/1	0.65	0.23	83,83,83,83	0
60	MG	AA	3238	1/1	0.65	0.22	75,75,75,75	0
60	MG	BA	3209	1/1	0.65	0.25	74,74,74,74	0
60	MG	AA	3220	1/1	0.66	0.10	54,54,54,54	0
60	MG	BA	2952	1/1	0.66	0.21	102,102,102,102	0
60	MG	Aa	1718	1/1	0.66	0.40	84,84,84,84	0
60	MG	AA	3206	1/1	0.66	0.23	115,115,115,115	0
60	MG	AA	3191	1/1	0.66	0.30	74,74,74,74	0
60	MG	Ba	1703	1/1	0.66	0.31	25,25,25,25	1
60	MG	BA	3154	1/1	0.66	0.11	73,73,73,73	1
60	MG	Ba	1706	1/1	0.66	0.46	104,104,104,104	0
60	MG	AQ	201	1/1	0.67	0.41	94,94,94,94	0
60	MG	BA	3074	1/1	0.67	0.36	75,75,75,75	0
60	MG	BA	3240	1/1	0.67	0.27	84,84,84,84	0
60	MG	Aa	1665	1/1	0.67	0.39	120,120,120,120	0
60	MG	Ba	1735	1/1	0.67	0.08	122,122,122,122	0
60	MG	Ba	1604	1/1	0.67	0.26	75,75,75,75	0
60	MG	Ba	1643	1/1	0.68	0.22	108,108,108,108	0
60	MG	AA	3261	1/1	0.68	0.31	76,76,76,76	0
60	MG	BA	3098	1/1	0.68	0.28	52,52,52,52	0
60	MG	BA	3099	1/1	0.68	0.41	90,90,90,90	0
60	MG	Ba	1646	1/1	0.68	0.19	128,128,128,128	0
60	MG	Aa	1674	1/1	0.68	0.12	90,90,90,90	0
60	MG	AA	2954	1/1	0.68	0.26	112,112,112,112	0
60	MG	Ae	202	1/1	0.68	0.38	89,89,89,89	0
60	MG	AA	3072	1/1	0.68	0.32	122,122,122,122	0
60	MG	Aa	1622	1/1	0.69	0.32	79,79,79,79	0
60	MG	BA	3205	1/1	0.69	0.23	92,92,92,92	0
60	MG	Ba	1669	1/1	0.69	0.17	94,94,94,94	0
60	MG	AA	3264	1/1	0.69	0.40	78,78,78,78	0
60	MG	AA	3265	1/1	0.69	0.26	70,70,70,70	0
60	MG	AA	3077	1/1	0.69	0.16	99,99,99,99	0
60	MG	AA	2917	1/1	0.69	0.18	112,112,112,112	0
60	MG	BA	3252	1/1	0.69	0.12	40,40,40,40	0
60	MG	Ba	1696	1/1	0.69	0.23	83,83,83,83	0
60	MG	BA	2947	1/1	0.69	0.23	44,44,44,44	0
60	MG	Ba	1630	1/1	0.69	0.33	76,76,76,76	0
60	MG	Aa	1686	1/1	0.70	0.09	37,37,37,37	1
60	MG	Aa	1631	1/1	0.70	0.30	72,72,72,72	0
60	MG	Aa	1632	1/1	0.70	0.29	72,72,72,72	0
60	MG	BA	3247	1/1	0.70	0.17	54,54,54,54	0
60	MG	Ba	1699	1/1	0.70	0.31	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Aa	1614	1/1	0.70	0.14	69,69,69,69	0
60	MG	AA	3130	1/1	0.70	0.28	76,76,76,76	0
60	MG	AA	3081	1/1	0.70	0.23	99,99,99,99	0
60	MG	Bm	201	1/1	0.71	0.21	118,118,118,118	0
60	MG	AA	3204	1/1	0.71	0.17	51,51,51,51	0
60	MG	Ba	1702	1/1	0.71	0.50	97,97,97,97	0
60	MG	AA	3141	1/1	0.71	0.28	86,86,86,86	0
60	MG	Aa	1662	1/1	0.71	0.28	73,73,73,73	0
60	MG	AA	3247	1/1	0.71	0.15	103,103,103,103	0
60	MG	Ba	1738	1/1	0.71	0.24	106,106,106,106	0
60	MG	Aa	1734	1/1	0.71	0.28	84,84,84,84	0
60	MG	Ba	1688	1/1	0.71	0.22	120,120,120,120	1
60	MG	AX	101	1/1	0.71	0.19	55,55,55,55	1
60	MG	Bl	201	1/1	0.71	0.17	5,5,5,5	1
60	MG	Ba	1679	1/1	0.72	0.25	92,92,92,92	0
60	MG	AB	201	1/1	0.72	0.20	63,63,63,63	0
60	MG	BA	3222	1/1	0.72	0.24	61,61,61,61	0
60	MG	AA	3148	1/1	0.72	0.08	77,77,77,77	0
60	MG	Ba	1711	1/1	0.72	0.13	123,123,123,123	0
60	MG	Aa	1736	1/1	0.72	0.15	117,117,117,117	0
60	MG	AA	3097	1/1	0.72	0.10	43,43,43,43	0
60	MG	AA	3214	1/1	0.72	0.42	88,88,88,88	0
60	MG	Ba	1621	1/1	0.72	0.29	82,82,82,82	0
60	MG	Aw	101	1/1	0.72	0.08	83,83,83,83	1
60	MG	AA	3196	1/1	0.72	0.33	70,70,70,70	0
60	MG	BA	3012	1/1	0.73	0.28	61,61,61,61	0
60	MG	AA	3203	1/1	0.73	0.16	66,66,66,66	0
60	MG	BA	3236	1/1	0.73	0.31	116,116,116,116	0
60	MG	BO	201	1/1	0.73	0.37	122,122,122,122	0
60	MG	BA	3202	1/1	0.73	0.10	76,76,76,76	0
60	MG	Ba	1697	1/1	0.73	0.29	93,93,93,93	1
60	MG	Aa	1621	1/1	0.73	0.09	89,89,89,89	0
60	MG	AA	3149	1/1	0.73	0.35	100,100,100,100	0
60	MG	Ba	1605	1/1	0.73	0.34	73,73,73,73	0
60	MG	AA	3036	1/1	0.74	0.34	100,100,100,100	0
60	MG	BA	3188	1/1	0.74	0.21	64,64,64,64	0
60	MG	BA	3234	1/1	0.74	0.27	74,74,74,74	0
60	MG	BA	3189	1/1	0.74	0.26	75,75,75,75	0
60	MG	Ba	1676	1/1	0.74	0.71	137,137,137,137	1
60	MG	AA	3167	1/1	0.74	0.14	73,73,73,73	0
60	MG	Aa	1615	1/1	0.74	0.42	53,53,53,53	0
60	MG	BA	3254	1/1	0.74	0.49	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3205	1/1	0.74	0.19	51,51,51,51	0
60	MG	Aa	1667	1/1	0.74	0.25	78,78,78,78	0
60	MG	Aa	1655	1/1	0.74	0.18	87,87,87,87	0
60	MG	BA	3264	1/1	0.74	0.45	89,89,89,89	0
60	MG	AA	3111	1/1	0.75	0.38	54,54,54,54	0
60	MG	Aa	1744	1/1	0.75	0.30	87,87,87,87	0
60	MG	AA	3120	1/1	0.75	0.15	76,76,76,76	0
60	MG	AA	3189	1/1	0.75	0.27	107,107,107,107	0
60	MG	Aa	1692	1/1	0.75	0.32	46,46,46,46	0
60	MG	Aa	1645	1/1	0.75	0.35	79,79,79,79	0
60	MG	Aa	1610	1/1	0.75	0.17	115,115,115,115	0
60	MG	Aa	1719	1/1	0.75	0.38	101,101,101,101	0
60	MG	Ba	1684	1/1	0.75	0.26	75,75,75,75	0
60	MG	Ba	1720	1/1	0.75	0.24	91,91,91,91	0
60	MG	Ba	1687	1/1	0.75	0.14	50,50,50,50	1
60	MG	BA	3238	1/1	0.75	0.38	113,113,113,113	0
60	MG	BA	3118	1/1	0.75	0.15	70,70,70,70	0
60	MG	BA	3243	1/1	0.75	0.43	111,111,111,111	0
60	MG	BA	3244	1/1	0.75	0.23	91,91,91,91	0
60	MG	AA	2928	1/1	0.75	0.49	110,110,110,110	0
60	MG	Aa	1741	1/1	0.75	0.37	79,79,79,79	0
60	MG	BA	3132	1/1	0.75	0.18	43,43,43,43	0
60	MG	Aa	1690	1/1	0.75	0.18	49,49,49,49	0
60	MG	AA	2957	1/1	0.75	0.16	72,72,72,72	0
60	MG	Ba	1647	1/1	0.75	0.31	117,117,117,117	0
60	MG	AA	2968	1/1	0.75	0.37	76,76,76,76	0
60	MG	AA	3218	1/1	0.76	0.40	98,98,98,98	0
60	MG	BA	3216	1/1	0.76	0.33	117,117,117,117	0
60	MG	AA	3028	1/1	0.76	0.27	60,60,60,60	0
60	MG	Ba	1612	1/1	0.76	0.10	82,82,82,82	0
60	MG	Ba	1615	1/1	0.76	0.14	81,81,81,81	0
60	MG	Aa	1706	1/1	0.76	0.31	54,54,54,54	0
60	MG	AA	2941	1/1	0.76	0.36	92,92,92,92	0
60	MG	Ba	1739	1/1	0.76	0.25	53,53,53,53	0
60	MG	Ba	1641	1/1	0.76	0.36	94,94,94,94	0
60	MG	AA	3165	1/1	0.76	0.17	97,97,97,97	0
60	MG	Aa	1611	1/1	0.76	0.31	60,60,60,60	0
60	MG	BA	3186	1/1	0.76	0.29	70,70,70,70	0
60	MG	Aa	1722	1/1	0.76	0.21	78,78,78,78	0
60	MG	Aa	1730	1/1	0.76	0.26	77,77,77,77	0
60	MG	Ba	1718	1/1	0.76	0.18	107,107,107,107	0
60	MG	Aa	1743	1/1	0.76	0.29	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	2966	1/1	0.76	0.18	67,67,67,67	0
60	MG	AA	3259	1/1	0.76	0.31	78,78,78,78	0
60	MG	BB	201	1/1	0.76	0.28	54,54,54,54	0
60	MG	BA	3204	1/1	0.77	0.33	64,64,64,64	0
60	MG	BA	2960	1/1	0.77	0.09	101,101,101,101	0
60	MG	Ba	1683	1/1	0.77	0.12	65,65,65,65	0
60	MG	AA	3114	1/1	0.77	0.21	18,18,18,18	1
60	MG	BA	3035	1/1	0.77	0.31	52,52,52,52	0
60	MG	Aa	1643	1/1	0.77	0.33	90,90,90,90	0
60	MG	Aa	1606	1/1	0.77	0.22	66,66,66,66	0
60	MG	AA	2959	1/1	0.77	0.19	73,73,73,73	0
60	MG	AA	3110	1/1	0.77	0.33	91,91,91,91	0
60	MG	BA	3119	1/1	0.77	0.17	67,67,67,67	0
60	MG	Aa	1636	1/1	0.77	0.43	88,88,88,88	0
60	MG	Ba	1740	1/1	0.78	0.28	78,78,78,78	0
60	MG	BA	3160	1/1	0.78	0.44	74,74,74,74	0
60	MG	Bv	103	1/1	0.78	0.33	93,93,93,93	0
60	MG	BA	3181	1/1	0.78	0.12	61,61,61,61	0
60	MG	BA	3067	1/1	0.78	0.24	28,28,28,28	0
60	MG	BA	3072	1/1	0.78	0.25	55,55,55,55	0
60	MG	BA	3241	1/1	0.78	0.31	49,49,49,49	0
60	MG	Ba	1659	1/1	0.78	0.20	79,79,79,79	0
60	MG	Aa	1689	1/1	0.78	0.14	65,65,65,65	1
60	MG	AA	3236	1/1	0.78	0.24	90,90,90,90	0
60	MG	BA	3203	1/1	0.78	0.14	95,95,95,95	0
60	MG	AA	2961	1/1	0.78	0.28	76,76,76,76	0
60	MG	AA	3209	1/1	0.78	0.27	84,84,84,84	0
60	MG	AA	3089	1/1	0.78	0.24	75,75,75,75	0
60	MG	Aa	1656	1/1	0.78	0.15	88,88,88,88	0
60	MG	AA	2978	1/1	0.78	0.40	124,124,124,124	0
60	MG	Av	105	1/1	0.78	0.18	92,92,92,92	1
60	MG	Ba	1689	1/1	0.79	0.30	57,57,57,57	0
60	MG	BA	2968	1/1	0.79	0.27	69,69,69,69	0
60	MG	Ba	1690	1/1	0.79	0.22	56,56,56,56	0
60	MG	Ba	1726	1/1	0.79	0.22	34,34,34,34	1
60	MG	AA	3098	1/1	0.79	0.10	75,75,75,75	0
60	MG	Ba	1730	1/1	0.79	0.21	62,62,62,62	0
60	MG	Aa	1652	1/1	0.79	0.21	58,58,58,58	0
60	MG	BA	3088	1/1	0.79	0.24	107,107,107,107	0
60	MG	BA	3220	1/1	0.79	0.23	50,50,50,50	0
60	MG	Ba	1654	1/1	0.79	0.23	50,50,50,50	0
60	MG	Ba	1736	1/1	0.79	0.13	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3008	1/1	0.79	0.12	75,75,75,75	0
60	MG	AA	3257	1/1	0.79	0.19	78,78,78,78	0
60	MG	Aa	1728	1/1	0.79	0.20	83,83,83,83	0
60	MG	AA	2952	1/1	0.79	0.21	88,88,88,88	0
60	MG	AA	3224	1/1	0.79	0.19	73,73,73,73	0
60	MG	BA	3138	1/1	0.79	0.16	54,54,54,54	0
60	MG	AA	2965	1/1	0.79	0.20	69,69,69,69	0
60	MG	Ba	1624	1/1	0.79	0.33	76,76,76,76	0
60	MG	BA	3158	1/1	0.79	0.15	88,88,88,88	0
60	MG	AA	3092	1/1	0.79	0.18	51,51,51,51	0
60	MG	BA	3172	1/1	0.79	0.37	50,50,50,50	0
60	MG	Ba	1635	1/1	0.79	0.25	57,57,57,57	0
60	MG	AA	3094	1/1	0.79	0.35	67,67,67,67	0
60	MG	AA	3127	1/1	0.79	0.18	89,89,89,89	0
60	MG	Aa	1712	1/1	0.79	0.09	117,117,117,117	0
60	MG	AB	203	1/1	0.79	0.33	56,56,56,56	0
60	MG	BA	3116	1/1	0.80	0.28	91,91,91,91	0
60	MG	BA	3182	1/1	0.80	0.20	63,63,63,63	0
60	MG	BA	2963	1/1	0.80	0.16	55,55,55,55	0
60	MG	AA	3075	1/1	0.80	0.40	84,84,84,84	0
60	MG	AA	3246	1/1	0.80	0.12	70,70,70,70	0
60	MG	Ba	1675	1/1	0.80	0.30	58,58,58,58	0
60	MG	Aa	1702	1/1	0.80	0.33	91,91,91,91	0
60	MG	AA	3221	1/1	0.80	0.19	47,47,47,47	0
60	MG	AA	3099	1/1	0.80	0.29	57,57,57,57	0
60	MG	AA	2909	1/1	0.80	0.29	41,41,41,41	0
60	MG	AA	3083	1/1	0.80	0.30	76,76,76,76	0
60	MG	AA	3145	1/1	0.80	0.35	78,78,78,78	0
60	MG	BA	3163	1/1	0.80	0.23	71,71,71,71	0
60	MG	BA	3165	1/1	0.80	0.24	67,67,67,67	0
60	MG	AA	3163	1/1	0.80	0.21	54,54,54,54	0
60	MG	BA	3111	1/1	0.80	0.32	74,74,74,74	0
60	MG	AA	2944	1/1	0.81	0.17	56,56,56,56	0
60	MG	BA	3080	1/1	0.81	0.20	58,58,58,58	0
60	MG	BA	3221	1/1	0.81	0.40	106,106,106,106	0
60	MG	BA	2938	1/1	0.81	0.51	84,84,84,84	0
60	MG	Ba	1705	1/1	0.81	0.32	76,76,76,76	0
60	MG	BA	3170	1/1	0.81	0.11	13,13,13,13	0
60	MG	AA	3226	1/1	0.81	0.28	95,95,95,95	0
60	MG	BA	3178	1/1	0.81	0.11	55,55,55,55	0
60	MG	AA	3118	1/1	0.81	0.26	74,74,74,74	0
60	MG	AA	2963	1/1	0.81	0.32	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Ba	1671	1/1	0.81	0.27	87,87,87,87	0
60	MG	AA	3175	1/1	0.81	0.31	40,40,40,40	0
60	MG	BA	3121	1/1	0.81	0.39	70,70,70,70	0
60	MG	Ba	1694	1/1	0.81	0.19	83,83,83,83	0
60	MG	Aa	1691	1/1	0.81	0.19	53,53,53,53	0
60	MG	Aa	1705	1/1	0.81	0.10	71,71,71,71	0
60	MG	Aa	1677	1/1	0.81	0.08	69,69,69,69	0
60	MG	BA	3149	1/1	0.81	0.15	76,76,76,76	0
60	MG	BA	3150	1/1	0.81	0.16	76,76,76,76	0
60	MG	AA	3005	1/1	0.81	0.15	57,57,57,57	0
60	MG	Aa	1641	1/1	0.81	0.17	74,74,74,74	0
60	MG	Aa	1659	1/1	0.82	0.19	88,88,88,88	0
60	MG	AA	3013	1/1	0.82	0.31	78,78,78,78	0
60	MG	BA	3162	1/1	0.82	0.16	57,57,57,57	0
60	MG	Aa	1739	1/1	0.82	0.16	78,78,78,78	0
60	MG	AA	2953	1/1	0.82	0.13	96,96,96,96	0
60	MG	AB	202	1/1	0.82	0.23	62,62,62,62	0
60	MG	AA	3223	1/1	0.82	0.60	78,78,78,78	0
60	MG	BA	2965	1/1	0.82	0.14	58,58,58,58	0
60	MG	AA	3059	1/1	0.82	0.37	68,68,68,68	0
60	MG	AA	2967	1/1	0.82	0.34	69,69,69,69	0
60	MG	BA	3129	1/1	0.82	0.23	53,53,53,53	0
60	MG	AA	3229	1/1	0.82	0.17	73,73,73,73	0
60	MG	Aa	1678	1/1	0.82	0.18	93,93,93,93	0
60	MG	BA	3135	1/1	0.82	0.30	96,96,96,96	0
60	MG	BA	3250	1/1	0.82	0.34	88,88,88,88	0
60	MG	Ba	1650	1/1	0.82	0.28	49,49,49,49	0
60	MG	BA	3141	1/1	0.82	0.22	57,57,57,57	0
60	MG	BA	3147	1/1	0.82	0.21	56,56,56,56	0
60	MG	Aa	1661	1/1	0.82	0.28	64,64,64,64	0
60	MG	BA	2922	1/1	0.82	0.16	52,52,52,52	0
60	MG	BA	3076	1/1	0.82	0.14	83,83,83,83	0
60	MG	Aa	1680	1/1	0.82	0.37	107,107,107,107	0
60	MG	BB	203	1/1	0.82	0.32	55,55,55,55	0
60	MG	Ba	1658	1/1	0.83	0.18	50,50,50,50	0
60	MG	AA	3048	1/1	0.83	0.16	68,68,68,68	0
60	MG	Aa	1639	1/1	0.83	0.26	65,65,65,65	0
60	MG	AA	3230	1/1	0.83	0.16	78,78,78,78	0
60	MG	BA	3206	1/1	0.83	0.25	71,71,71,71	0
60	MG	AA	2980	1/1	0.83	0.40	69,69,69,69	0
60	MG	AA	3065	1/1	0.83	0.30	73,73,73,73	0
60	MG	BA	3212	1/1	0.83	0.33	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	2981	1/1	0.83	0.18	46,46,46,46	0
60	MG	BA	3007	1/1	0.83	0.23	90,90,90,90	0
60	MG	AA	3208	1/1	0.83	0.30	86,86,86,86	0
60	MG	AA	2945	1/1	0.83	0.10	74,74,74,74	0
60	MG	Aa	1720	1/1	0.83	0.31	75,75,75,75	0
60	MG	AA	3179	1/1	0.83	0.11	56,56,56,56	0
60	MG	Bx	101	1/1	0.83	0.16	83,83,83,83	0
60	MG	BA	3161	1/1	0.83	0.31	71,71,71,71	0
60	MG	Ba	1645	1/1	0.83	0.35	101,101,101,101	0
60	MG	Aa	1617	1/1	0.83	0.09	49,49,49,49	1
60	MG	BA	3081	1/1	0.83	0.27	83,83,83,83	0
60	MG	BA	3087	1/1	0.83	0.33	51,51,51,51	0
60	MG	AA	2971	1/1	0.83	0.12	52,52,52,52	0
60	MG	BA	3175	1/1	0.83	0.31	57,57,57,57	0
60	MG	AA	2975	1/1	0.83	0.29	90,90,90,90	0
60	MG	BA	2901	1/1	0.83	0.33	138,138,138,138	0
60	MG	Ba	1651	1/1	0.83	0.35	62,62,62,62	0
60	MG	AA	3160	1/1	0.83	0.28	99,99,99,99	0
60	MG	AA	3201	1/1	0.83	0.50	88,88,88,88	0
60	MG	Ba	1691	1/1	0.83	0.29	58,58,58,58	0
60	MG	BA	2948	1/1	0.83	0.39	73,73,73,73	0
60	MG	BA	3196	1/1	0.83	0.08	68,68,68,68	0
60	MG	Ba	1608	1/1	0.83	0.18	79,79,79,79	0
60	MG	BA	3167	1/1	0.84	0.29	59,59,59,59	0
60	MG	BA	3168	1/1	0.84	0.11	53,53,53,53	0
60	MG	Ba	1701	1/1	0.84	0.21	60,60,60,60	0
60	MG	Aa	1628	1/1	0.84	0.14	92,92,92,92	0
60	MG	Aa	1619	1/1	0.84	0.28	65,65,65,65	0
60	MG	BA	3176	1/1	0.84	0.14	48,48,48,48	0
60	MG	Aa	1717	1/1	0.84	0.21	66,66,66,66	0
60	MG	BA	3179	1/1	0.84	0.10	24,24,24,24	0
60	MG	Ba	1628	1/1	0.84	0.18	46,46,46,46	0
60	MG	AA	3112	1/1	0.84	0.27	60,60,60,60	0
60	MG	BA	3239	1/1	0.84	0.13	64,64,64,64	0
60	MG	Ba	1631	1/1	0.84	0.18	73,73,73,73	0
60	MG	Aa	1735	1/1	0.84	0.20	68,68,68,68	1
60	MG	BA	3086	1/1	0.84	0.16	48,48,48,48	0
60	MG	AA	2925	1/1	0.84	0.29	79,79,79,79	0
60	MG	Aa	1658	1/1	0.84	0.32	75,75,75,75	0
60	MG	BA	3097	1/1	0.84	0.14	54,54,54,54	0
60	MG	AA	3151	1/1	0.84	0.15	85,85,85,85	0
60	MG	AA	3207	1/1	0.84	0.30	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3255	1/1	0.84	0.18	81,81,81,81	0
60	MG	BA	3107	1/1	0.84	0.22	45,45,45,45	0
60	MG	AA	2932	1/1	0.84	0.21	57,57,57,57	0
60	MG	BA	2977	1/1	0.84	0.20	46,46,46,46	0
60	MG	AA	3183	1/1	0.84	0.11	69,69,69,69	0
60	MG	BA	3208	1/1	0.84	0.26	52,52,52,52	0
60	MG	Aa	1687	1/1	0.84	0.19	64,64,64,64	0
60	MG	AA	3126	1/1	0.85	0.12	47,47,47,47	0
60	MG	Ba	1666	1/1	0.85	0.23	73,73,73,73	0
60	MG	AA	2992	1/1	0.85	0.21	45,45,45,45	0
60	MG	AA	3185	1/1	0.85	0.39	83,83,83,83	0
60	MG	AA	2997	1/1	0.85	0.13	43,43,43,43	0
60	MG	AA	2999	1/1	0.85	0.17	46,46,46,46	0
60	MG	AA	3243	1/1	0.85	0.72	79,79,79,79	0
60	MG	BA	2959	1/1	0.85	0.16	37,37,37,37	0
60	MG	AA	3000	1/1	0.85	0.30	63,63,63,63	0
60	MG	AA	3001	1/1	0.85	0.22	26,26,26,26	0
60	MG	Aa	1738	1/1	0.85	0.17	55,55,55,55	0
60	MG	AA	3146	1/1	0.85	0.51	90,90,90,90	0
60	MG	BA	3146	1/1	0.85	0.29	84,84,84,84	0
60	MG	Ba	1725	1/1	0.85	0.30	45,45,45,45	0
60	MG	AA	3147	1/1	0.85	0.24	79,79,79,79	0
60	MG	Aa	1672	1/1	0.85	0.06	87,87,87,87	0
60	MG	BA	3000	1/1	0.85	0.20	16,16,16,16	0
60	MG	BA	3232	1/1	0.85	0.18	77,77,77,77	0
60	MG	Aa	1654	1/1	0.85	0.12	56,56,56,56	0
60	MG	AA	3021	1/1	0.85	0.24	96,96,96,96	0
60	MG	BA	3019	1/1	0.85	0.16	30,30,30,30	0
60	MG	BA	3020	1/1	0.85	0.18	84,84,84,84	0
60	MG	BA	3027	1/1	0.85	0.20	43,43,43,43	0
60	MG	AA	2901	1/1	0.85	0.14	84,84,84,84	0
60	MG	AA	3034	1/1	0.85	0.23	55,55,55,55	0
60	MG	AA	2904	1/1	0.85	0.15	131,131,131,131	0
60	MG	AA	3158	1/1	0.85	0.22	46,46,46,46	0
60	MG	AA	2947	1/1	0.85	0.20	72,72,72,72	0
60	MG	BA	3249	1/1	0.85	0.45	67,67,67,67	0
60	MG	Aa	1732	1/1	0.85	0.16	49,49,49,49	0
60	MG	Ba	1742	1/1	0.85	0.25	92,92,92,92	0
60	MG	AA	2973	1/1	0.85	0.12	79,79,79,79	0
60	MG	Ba	1700	1/1	0.85	0.16	58,58,58,58	0
60	MG	Aa	1699	1/1	0.85	0.12	84,84,84,84	1
60	MG	Aa	1684	1/1	0.85	0.24	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Aa	1701	1/1	0.85	0.19	71,71,71,71	0
60	MG	AA	2985	1/1	0.85	0.30	31,31,31,31	0
60	MG	BA	2908	1/1	0.85	0.22	20,20,20,20	0
60	MG	BA	3109	1/1	0.85	0.44	90,90,90,90	0
60	MG	AA	3051	1/1	0.86	0.13	81,81,81,81	0
60	MG	AA	3157	1/1	0.86	0.21	66,66,66,66	0
60	MG	Ba	1698	1/1	0.86	0.22	89,89,89,89	1
60	MG	AA	3056	1/1	0.86	0.29	19,19,19,19	0
60	MG	BA	3029	1/1	0.86	0.17	27,27,27,27	0
60	MG	Ba	1662	1/1	0.86	0.14	67,67,67,67	0
60	MG	BA	3153	1/1	0.86	0.25	46,46,46,46	0
60	MG	Aa	1714	1/1	0.86	0.08	47,47,47,47	0
60	MG	Ba	1664	1/1	0.86	0.27	46,46,46,46	0
60	MG	BA	3073	1/1	0.86	0.21	30,30,30,30	0
60	MG	Ba	1609	1/1	0.86	0.25	74,74,74,74	0
60	MG	A7	101	1/1	0.86	0.42	80,80,80,80	0
60	MG	AA	3128	1/1	0.86	0.29	23,23,23,23	0
60	MG	AA	3252	1/1	0.86	0.30	80,80,80,80	0
60	MG	Aa	1625	1/1	0.86	0.25	76,76,76,76	0
60	MG	AA	2993	1/1	0.86	0.14	56,56,56,56	0
60	MG	AA	3217	1/1	0.86	0.27	85,85,85,85	0
60	MG	Aa	1637	1/1	0.86	0.15	75,75,75,75	0
60	MG	AA	3074	1/1	0.86	0.24	33,33,33,33	0
60	MG	AA	3107	1/1	0.86	0.21	47,47,47,47	0
60	MG	Ba	1719	1/1	0.86	0.27	57,57,57,57	0
60	MG	BA	3245	1/1	0.86	0.13	90,90,90,90	0
60	MG	Aa	1682	1/1	0.86	0.17	59,59,59,59	0
60	MG	Ba	1686	1/1	0.86	0.13	84,84,84,84	0
60	MG	Aa	1696	1/1	0.86	0.13	67,67,67,67	0
60	MG	AA	3079	1/1	0.86	0.29	55,55,55,55	0
60	MG	AA	3267	1/1	0.86	0.47	74,74,74,74	0
60	MG	Ba	1728	1/1	0.86	0.23	30,30,30,30	0
60	MG	Aa	1607	1/1	0.86	0.22	69,69,69,69	0
60	MG	BA	2971	1/1	0.86	0.34	66,66,66,66	0
60	MG	AA	3050	1/1	0.86	0.17	96,96,96,96	0
60	MG	AA	3152	1/1	0.86	0.25	62,62,62,62	0
60	MG	BA	3265	1/1	0.86	0.20	74,74,74,74	0
60	MG	AA	3116	1/1	0.86	0.22	35,35,35,35	0
60	MG	BB	202	1/1	0.86	0.15	46,46,46,46	0
60	MG	AA	3087	1/1	0.86	0.25	60,60,60,60	0
60	MG	AA	3253	1/1	0.87	0.19	71,71,71,71	0
60	MG	AA	3159	1/1	0.87	0.20	114,114,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Ba	1611	1/1	0.87	0.14	97,97,97,97	0
60	MG	Ba	1722	1/1	0.87	0.13	63,63,63,63	0
60	MG	Aa	1651	1/1	0.87	0.32	58,58,58,58	0
60	MG	AA	3038	1/1	0.87	0.18	64,64,64,64	0
60	MG	BA	3156	1/1	0.87	0.21	29,29,29,29	0
60	MG	BA	3084	1/1	0.87	0.23	34,34,34,34	0
60	MG	AA	3046	1/1	0.87	0.15	47,47,47,47	0
60	MG	AA	3164	1/1	0.87	0.34	69,69,69,69	0
60	MG	BA	3228	1/1	0.87	0.26	94,94,94,94	0
60	MG	BA	3229	1/1	0.87	0.18	32,32,32,32	0
60	MG	AA	2923	1/1	0.87	0.18	36,36,36,36	0
60	MG	BA	3094	1/1	0.87	0.26	11,11,11,11	0
60	MG	AA	3166	1/1	0.87	0.20	48,48,48,48	0
60	MG	Ba	1667	1/1	0.87	0.16	50,50,50,50	0
60	MG	Aa	1697	1/1	0.87	0.25	65,65,65,65	0
60	MG	BA	3106	1/1	0.87	0.23	41,41,41,41	0
60	MG	Av	101	1/1	0.87	0.37	90,90,90,90	1
60	MG	Ba	1674	1/1	0.87	0.10	66,66,66,66	0
60	MG	BA	3242	1/1	0.87	0.34	52,52,52,52	0
60	MG	BA	2976	1/1	0.87	0.37	104,104,104,104	0
60	MG	Ba	1640	1/1	0.87	0.32	80,80,80,80	0
60	MG	Ba	1704	1/1	0.87	0.23	62,62,62,62	0
60	MG	AA	3009	1/1	0.87	0.17	31,31,31,31	0
60	MG	AA	3241	1/1	0.87	0.29	64,64,64,64	0
60	MG	AA	3242	1/1	0.87	0.32	85,85,85,85	0
60	MG	BA	3183	1/1	0.87	0.17	44,44,44,44	0
60	MG	Av	104	1/1	0.87	0.23	50,50,50,50	1
60	MG	Aa	1627	1/1	0.87	0.08	53,53,53,53	0
60	MG	BA	3024	1/1	0.87	0.26	24,24,24,24	0
60	MG	BA	3193	1/1	0.87	0.16	44,44,44,44	0
60	MG	AA	3216	1/1	0.87	0.32	49,49,49,49	0
60	MG	BA	3136	1/1	0.87	0.23	106,106,106,106	0
60	MG	BA	3137	1/1	0.87	0.27	80,80,80,80	0
60	MG	AA	2955	1/1	0.87	0.13	48,48,48,48	0
60	MG	AA	3139	1/1	0.87	0.10	44,44,44,44	0
60	MG	Aa	1695	1/1	0.87	0.16	78,78,78,78	0
60	MG	Aa	1683	1/1	0.88	0.10	66,66,66,66	0
60	MG	Ba	1638	1/1	0.88	0.18	40,40,40,40	0
60	MG	Aa	1694	1/1	0.88	0.12	89,89,89,89	0
60	MG	AA	3002	1/1	0.88	0.14	58,58,58,58	0
60	MG	AA	2915	1/1	0.88	0.15	21,21,21,21	0
60	MG	AA	3113	1/1	0.88	0.20	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3101	1/1	0.88	0.28	52,52,52,52	0
60	MG	AA	2970	1/1	0.88	0.11	53,53,53,53	0
60	MG	BA	3230	1/1	0.88	0.10	45,45,45,45	0
60	MG	AA	3250	1/1	0.88	0.22	40,40,40,40	0
60	MG	AA	3200	1/1	0.88	0.38	72,72,72,72	1
60	MG	BA	3110	1/1	0.88	0.21	23,23,23,23	0
60	MG	AA	2948	1/1	0.88	0.15	67,67,67,67	0
60	MG	BA	3237	1/1	0.88	0.09	55,55,55,55	0
60	MG	Aa	1629	1/1	0.88	0.22	59,59,59,59	0
60	MG	AA	3020	1/1	0.88	0.12	39,39,39,39	0
60	MG	Ba	1714	1/1	0.88	0.10	62,62,62,62	0
60	MG	Aa	1740	1/1	0.88	0.15	42,42,42,42	0
60	MG	Ba	1716	1/1	0.88	0.23	63,63,63,63	0
60	MG	BA	3128	1/1	0.88	0.18	26,26,26,26	0
60	MG	AA	3125	1/1	0.88	0.21	42,42,42,42	0
60	MG	Ba	1657	1/1	0.88	0.14	52,52,52,52	0
60	MG	BA	3036	1/1	0.88	0.18	34,34,34,34	0
60	MG	BA	3046	1/1	0.88	0.13	28,28,28,28	0
60	MG	BA	3059	1/1	0.88	0.18	52,52,52,52	0
60	MG	BA	3251	1/1	0.88	0.17	65,65,65,65	0
60	MG	AA	3080	1/1	0.88	0.31	67,67,67,67	0
60	MG	Ba	1620	1/1	0.88	0.10	55,55,55,55	0
60	MG	AA	3104	1/1	0.88	0.29	56,56,56,56	0
60	MG	BA	3143	1/1	0.88	0.34	95,95,95,95	0
60	MG	BA	3145	1/1	0.88	0.38	63,63,63,63	0
60	MG	AA	3239	1/1	0.88	0.27	77,77,77,77	0
60	MG	AA	3177	1/1	0.88	0.15	57,57,57,57	0
60	MG	AA	3058	1/1	0.88	0.29	44,44,44,44	0
60	MG	AA	3266	1/1	0.88	0.33	87,87,87,87	0
60	MG	Ba	1634	1/1	0.88	0.21	37,37,37,37	0
60	MG	BA	2962	1/1	0.88	0.14	54,54,54,54	0
60	MG	AA	2990	1/1	0.89	0.24	34,34,34,34	0
60	MG	AA	3035	1/1	0.89	0.15	21,21,21,21	0
60	MG	Aa	1620	1/1	0.89	0.11	73,73,73,73	0
60	MG	BA	3034	1/1	0.89	0.16	11,11,11,11	0
60	MG	Aa	1640	1/1	0.89	0.12	60,60,60,60	0
60	MG	AA	2964	1/1	0.89	0.20	65,65,65,65	0
60	MG	Av	102	1/1	0.89	0.17	77,77,77,77	0
60	MG	BA	3215	1/1	0.89	0.29	65,65,65,65	0
60	MG	BA	3058	1/1	0.89	0.30	34,34,34,34	0
60	MG	Aa	1609	1/1	0.89	0.12	64,64,64,64	0
60	MG	BA	3060	1/1	0.89	0.26	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Aa	1670	1/1	0.89	0.12	43,43,43,43	0
60	MG	Ba	1622	1/1	0.89	0.09	57,57,57,57	0
60	MG	AA	3090	1/1	0.89	0.23	59,59,59,59	0
60	MG	BA	2924	1/1	0.89	0.17	93,93,93,93	0
60	MG	AA	2949	1/1	0.89	0.24	41,41,41,41	0
60	MG	BA	2939	1/1	0.89	0.20	71,71,71,71	0
60	MG	AA	2921	1/1	0.89	0.21	50,50,50,50	0
60	MG	AA	3096	1/1	0.89	0.58	73,73,73,73	0
60	MG	Ba	1632	1/1	0.89	0.18	41,41,41,41	0
60	MG	Aa	1633	1/1	0.89	0.27	62,62,62,62	0
60	MG	BA	2955	1/1	0.89	0.11	49,49,49,49	0
60	MG	BA	3093	1/1	0.89	0.21	61,61,61,61	0
60	MG	AA	3133	1/1	0.89	0.27	48,48,48,48	0
60	MG	AF	301	1/1	0.89	0.14	74,74,74,74	0
60	MG	AA	3172	1/1	0.89	0.18	38,38,38,38	0
60	MG	AA	3138	1/1	0.89	0.12	56,56,56,56	0
60	MG	AA	3064	1/1	0.89	0.09	29,29,29,29	0
60	MG	Aa	1616	1/1	0.89	0.06	64,64,64,64	0
60	MG	AA	3181	1/1	0.89	0.09	61,61,61,61	0
60	MG	Ba	1727	1/1	0.89	0.14	46,46,46,46	0
60	MG	AA	3103	1/1	0.89	0.08	35,35,35,35	0
60	MG	AA	3066	1/1	0.89	0.21	27,27,27,27	0
60	MG	Aa	1623	1/1	0.89	0.08	74,74,74,74	0
60	MG	BA	3117	1/1	0.89	0.25	63,63,63,63	0
60	MG	Bd	301	1/1	0.89	0.19	55,55,55,55	0
60	MG	BA	3187	1/1	0.89	0.26	36,36,36,36	0
60	MG	BA	2996	1/1	0.89	0.19	18,18,18,18	0
60	MG	BA	3260	1/1	0.89	0.29	80,80,80,80	0
60	MG	AA	2983	1/1	0.89	0.18	27,27,27,27	0
60	MG	Aa	1721	1/1	0.89	0.08	68,68,68,68	0
60	MG	AA	3031	1/1	0.89	0.19	45,45,45,45	0
60	MG	Ba	1602	1/1	0.89	0.23	93,93,93,93	0
60	MG	BA	3130	1/1	0.89	0.21	45,45,45,45	0
60	MG	AA	3198	1/1	0.89	0.20	52,52,52,52	0
60	MG	AA	2933	1/1	0.90	0.31	67,67,67,67	0
60	MG	AA	3180	1/1	0.90	0.10	73,73,73,73	0
60	MG	AA	3067	1/1	0.90	0.20	34,34,34,34	0
60	MG	AA	3069	1/1	0.90	0.26	68,68,68,68	0
60	MG	Ba	1672	1/1	0.90	0.08	95,95,95,95	0
60	MG	Aa	1673	1/1	0.90	0.12	60,60,60,60	0
60	MG	AA	3055	1/1	0.90	0.34	67,67,67,67	0
60	MG	BA	3124	1/1	0.90	0.10	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3125	1/1	0.90	0.16	40,40,40,40	0
60	MG	BA	3010	1/1	0.90	0.18	13,13,13,13	0
60	MG	AA	3244	1/1	0.90	0.43	67,67,67,67	0
60	MG	AA	3190	1/1	0.90	0.18	43,43,43,43	0
60	MG	Aa	1685	1/1	0.90	0.11	53,53,53,53	0
60	MG	B0	101	1/1	0.90	0.15	71,71,71,71	0
60	MG	B0	102	1/1	0.90	0.16	47,47,47,47	0
60	MG	AA	3219	1/1	0.90	0.24	30,30,30,30	0
60	MG	BA	3218	1/1	0.90	0.45	80,80,80,80	0
60	MG	BA	2903	1/1	0.90	0.05	99,99,99,99	0
60	MG	BA	2905	1/1	0.90	0.17	29,29,29,29	0
60	MG	BA	2907	1/1	0.90	0.22	49,49,49,49	0
60	MG	BA	3044	1/1	0.90	0.17	21,21,21,21	0
60	MG	Aa	1635	1/1	0.90	0.21	39,39,39,39	0
60	MG	BA	3048	1/1	0.90	0.13	31,31,31,31	0
60	MG	BA	2917	1/1	0.90	0.30	23,23,23,23	0
60	MG	AA	3249	1/1	0.90	0.21	55,55,55,55	0
60	MG	AA	3076	1/1	0.90	0.07	78,78,78,78	0
60	MG	BA	2925	1/1	0.90	0.23	31,31,31,31	0
60	MG	BA	3235	1/1	0.90	0.10	51,51,51,51	0
60	MG	BA	2931	1/1	0.90	0.18	62,62,62,62	0
60	MG	BA	2932	1/1	0.90	0.15	67,67,67,67	0
60	MG	BA	2933	1/1	0.90	0.17	18,18,18,18	1
60	MG	BA	3075	1/1	0.90	0.12	44,44,44,44	0
60	MG	Aa	1613	1/1	0.90	0.17	100,100,100,100	0
60	MG	BA	3077	1/1	0.90	0.07	46,46,46,46	0
60	MG	AA	3170	1/1	0.90	0.20	47,47,47,47	0
60	MG	AA	3254	1/1	0.90	0.23	53,53,53,53	0
60	MG	BA	3082	1/1	0.90	0.16	34,34,34,34	0
60	MG	Ba	1610	1/1	0.90	0.09	50,50,50,50	0
60	MG	AA	3171	1/1	0.90	0.09	57,57,57,57	0
60	MG	BA	2951	1/1	0.90	0.29	72,72,72,72	0
60	MG	AA	3228	1/1	0.90	0.15	51,51,51,51	0
60	MG	BA	3091	1/1	0.90	0.21	32,32,32,32	0
60	MG	BA	3173	1/1	0.90	0.21	72,72,72,72	0
60	MG	BA	3174	1/1	0.90	0.10	63,63,63,63	0
60	MG	Aa	1657	1/1	0.90	0.09	71,71,71,71	0
60	MG	Ba	1616	1/1	0.90	0.05	29,29,29,29	1
60	MG	Aa	1666	1/1	0.90	0.23	61,61,61,61	0
60	MG	Ba	1660	1/1	0.90	0.20	60,60,60,60	0
60	MG	AA	3025	1/1	0.90	0.18	26,26,26,26	0
60	MG	BA	3263	1/1	0.90	0.11	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3235	1/1	0.90	0.33	72,72,72,72	0
60	MG	BA	3103	1/1	0.90	0.28	50,50,50,50	0
60	MG	Ba	1734	1/1	0.90	0.11	84,84,84,84	1
60	MG	AA	3178	1/1	0.90	0.12	35,35,35,35	0
60	MG	Ba	1627	1/1	0.90	0.19	74,74,74,74	0
60	MG	BA	3021	1/1	0.91	0.15	31,31,31,31	0
60	MG	AA	2977	1/1	0.91	0.32	54,54,54,54	0
60	MG	AA	3037	1/1	0.91	0.14	27,27,27,27	0
60	MG	Ba	1613	1/1	0.91	0.32	38,38,38,38	0
60	MG	AA	3135	1/1	0.91	0.18	71,71,71,71	0
60	MG	AA	3251	1/1	0.91	0.33	84,84,84,84	0
60	MG	BA	2912	1/1	0.91	0.27	37,37,37,37	0
60	MG	Ba	1617	1/1	0.91	0.19	36,36,36,36	0
60	MG	BA	2918	1/1	0.91	0.07	29,29,29,29	0
60	MG	Ba	1618	1/1	0.91	0.17	57,57,57,57	0
60	MG	AA	3212	1/1	0.91	0.22	68,68,68,68	0
60	MG	AA	3136	1/1	0.91	0.21	84,84,84,84	0
60	MG	AA	2929	1/1	0.91	0.12	29,29,29,29	0
60	MG	BA	3066	1/1	0.91	0.29	32,32,32,32	0
60	MG	AA	3255	1/1	0.91	0.18	50,50,50,50	0
60	MG	BA	3224	1/1	0.91	0.23	62,62,62,62	0
60	MG	AA	3003	1/1	0.91	0.15	43,43,43,43	0
60	MG	BA	3148	1/1	0.91	0.12	74,74,74,74	0
60	MG	Aa	1650	1/1	0.91	0.39	64,64,64,64	0
60	MG	Ba	1678	1/1	0.91	0.19	51,51,51,51	0
60	MG	BA	3231	1/1	0.91	0.09	64,64,64,64	0
60	MG	BA	2940	1/1	0.91	0.18	82,82,82,82	0
60	MG	AA	3144	1/1	0.91	0.35	50,50,50,50	0
60	MG	AA	2951	1/1	0.91	0.09	53,53,53,53	0
60	MG	BA	3078	1/1	0.91	0.22	32,32,32,32	0
60	MG	AA	3078	1/1	0.91	0.10	83,83,83,83	0
60	MG	Aa	1715	1/1	0.91	0.06	57,57,57,57	0
60	MG	AA	2986	1/1	0.91	0.24	46,46,46,46	0
60	MG	BA	2953	1/1	0.91	0.14	25,25,25,25	0
60	MG	Aa	1716	1/1	0.91	0.12	70,70,70,70	0
60	MG	BA	2956	1/1	0.91	0.13	50,50,50,50	0
60	MG	AA	3150	1/1	0.91	0.19	62,62,62,62	0
60	MG	AA	3186	1/1	0.91	0.13	77,77,77,77	0
60	MG	AA	2991	1/1	0.91	0.20	19,19,19,19	0
60	MG	AA	3085	1/1	0.91	0.11	47,47,47,47	0
60	MG	AA	3023	1/1	0.91	0.23	13,13,13,13	0
60	MG	AA	3060	1/1	0.91	0.10	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3119	1/1	0.91	0.31	68,68,68,68	0
60	MG	Ba	1648	1/1	0.91	0.17	32,32,32,32	0
60	MG	BA	2969	1/1	0.91	0.10	35,35,35,35	0
60	MG	Aa	1707	1/1	0.91	0.17	79,79,79,79	0
60	MG	AA	3122	1/1	0.91	0.23	39,39,39,39	0
60	MG	Ba	1743	1/1	0.91	0.32	57,57,57,57	0
60	MG	Aa	1653	1/1	0.91	0.08	59,59,59,59	0
60	MG	AA	3202	1/1	0.91	0.22	57,57,57,57	0
60	MG	BA	3115	1/1	0.91	0.20	21,21,21,21	0
60	MG	Aa	1693	1/1	0.91	0.25	75,75,75,75	0
60	MG	AA	3033	1/1	0.91	0.15	57,57,57,57	0
60	MG	AA	2907	1/1	0.91	0.13	48,48,48,48	0
60	MG	AA	3068	1/1	0.91	0.16	19,19,19,19	0
60	MG	AA	2960	1/1	0.91	0.22	17,17,17,17	0
60	MG	B5	102	1/1	0.91	0.32	76,76,76,76	0
60	MG	AA	3258	1/1	0.92	0.34	38,38,38,38	0
60	MG	AA	3084	1/1	0.92	0.22	54,54,54,54	0
60	MG	AA	3047	1/1	0.92	0.14	40,40,40,40	0
60	MG	BA	2973	1/1	0.92	0.14	52,52,52,52	0
60	MG	Ba	1637	1/1	0.92	0.26	80,80,80,80	0
60	MG	AA	3086	1/1	0.92	0.14	74,74,74,74	0
60	MG	Aa	1644	1/1	0.92	0.18	56,56,56,56	0
60	MG	BA	3201	1/1	0.92	0.20	43,43,43,43	0
60	MG	AA	3049	1/1	0.92	0.15	54,54,54,54	0
60	MG	Ba	1642	1/1	0.92	0.21	78,78,78,78	0
60	MG	Bv	105	1/1	0.92	0.11	81,81,81,81	1
60	MG	AA	3222	1/1	0.92	0.22	45,45,45,45	0
60	MG	Aa	1612	1/1	0.92	0.09	32,32,32,32	0
60	MG	BA	3123	1/1	0.92	0.24	2,2,2,2	0
60	MG	BA	3013	1/1	0.92	0.50	50,50,50,50	0
60	MG	AA	2939	1/1	0.92	0.37	68,68,68,68	0
60	MG	BA	3211	1/1	0.92	0.14	24,24,24,24	0
60	MG	AA	2940	1/1	0.92	0.12	34,34,34,34	0
60	MG	AA	3227	1/1	0.92	0.15	39,39,39,39	0
60	MG	B7	101	1/1	0.92	0.11	36,36,36,36	0
60	MG	AA	2903	1/1	0.92	0.26	65,65,65,65	0
60	MG	BA	3219	1/1	0.92	0.23	40,40,40,40	0
60	MG	Aa	1729	1/1	0.92	0.21	30,30,30,30	0
60	MG	BA	3032	1/1	0.92	0.18	32,32,32,32	0
60	MG	BA	3134	1/1	0.92	0.11	52,52,52,52	0
60	MG	BA	3033	1/1	0.92	0.30	61,61,61,61	0
60	MG	AA	2905	1/1	0.92	0.15	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3226	1/1	0.92	0.27	75,75,75,75	0
59	ZN	B4	101	1/1	0.92	0.07	201,201,201,201	0
60	MG	AA	3232	1/1	0.92	0.07	64,64,64,64	0
60	MG	Ba	1655	1/1	0.92	0.13	43,43,43,43	0
60	MG	AA	2972	1/1	0.92	0.16	43,43,43,43	0
60	MG	AA	3063	1/1	0.92	0.08	53,53,53,53	0
60	MG	BA	3049	1/1	0.92	0.20	62,62,62,62	0
60	MG	Aa	1604	1/1	0.92	0.07	76,76,76,76	0
60	MG	AA	3018	1/1	0.92	0.18	48,48,48,48	0
60	MG	Ba	1606	1/1	0.92	0.14	50,50,50,50	0
60	MG	BA	2927	1/1	0.92	0.36	83,83,83,83	0
60	MG	Aa	1733	1/1	0.92	0.09	60,60,60,60	0
60	MG	AA	2976	1/1	0.92	0.22	46,46,46,46	0
60	MG	Aa	1605	1/1	0.92	0.07	43,43,43,43	0
60	MG	AA	3024	1/1	0.92	0.19	25,25,25,25	0
60	MG	Aa	1708	1/1	0.92	0.12	81,81,81,81	0
60	MG	AA	2922	1/1	0.92	0.12	48,48,48,48	0
60	MG	BA	2942	1/1	0.92	0.12	42,42,42,42	0
60	MG	Ba	1668	1/1	0.92	0.19	49,49,49,49	0
60	MG	AA	3030	1/1	0.92	0.10	28,28,28,28	0
60	MG	Aa	1711	1/1	0.92	0.11	70,70,70,70	0
60	MG	Aa	1642	1/1	0.92	0.15	95,95,95,95	0
60	MG	AA	2926	1/1	0.92	0.16	26,26,26,26	0
60	MG	AA	2987	1/1	0.92	0.17	53,53,53,53	0
60	MG	BA	3253	1/1	0.92	0.20	43,43,43,43	0
59	ZN	A4	101	1/1	0.92	0.06	186,186,186,186	0
60	MG	AA	3121	1/1	0.92	0.35	31,31,31,31	0
60	MG	AA	2958	1/1	0.92	0.19	47,47,47,47	0
60	MG	BA	3092	1/1	0.92	0.14	79,79,79,79	0
60	MG	Ba	1731	1/1	0.92	0.16	20,20,20,20	0
60	MG	BA	3177	1/1	0.92	0.16	70,70,70,70	0
60	MG	Ba	1626	1/1	0.92	0.18	56,56,56,56	0
60	MG	AA	3211	1/1	0.92	0.19	60,60,60,60	0
60	MG	AA	3124	1/1	0.92	0.22	15,15,15,15	0
60	MG	Aa	1668	1/1	0.92	0.13	40,40,40,40	0
60	MG	AA	2931	1/1	0.92	0.24	35,35,35,35	0
60	MG	BA	3102	1/1	0.92	0.13	47,47,47,47	0
60	MG	BA	2972	1/1	0.93	0.24	30,30,30,30	0
60	MG	BA	2926	1/1	0.93	0.21	24,24,24,24	0
60	MG	AA	3188	1/1	0.93	0.20	36,36,36,36	0
60	MG	BA	2930	1/1	0.93	0.21	28,28,28,28	0
60	MG	BA	2979	1/1	0.93	0.20	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3144	1/1	0.93	0.26	59,59,59,59	0
60	MG	AA	3006	1/1	0.93	0.11	32,32,32,32	0
60	MG	BA	2986	1/1	0.93	0.12	63,63,63,63	0
60	MG	BA	2987	1/1	0.93	0.20	9,9,9,9	0
60	MG	AA	3026	1/1	0.93	0.18	35,35,35,35	0
60	MG	AA	3027	1/1	0.93	0.11	54,54,54,54	0
60	MG	AA	2994	1/1	0.93	0.27	30,30,30,30	0
60	MG	BA	3008	1/1	0.93	0.16	32,32,32,32	0
60	MG	Ba	1717	1/1	0.93	0.41	71,71,71,71	0
60	MG	Aa	1709	1/1	0.93	0.06	148,148,148,148	0
60	MG	BA	2941	1/1	0.93	0.13	62,62,62,62	0
60	MG	BA	3015	1/1	0.93	0.14	18,18,18,18	0
60	MG	BA	3227	1/1	0.93	0.49	82,82,82,82	0
60	MG	BA	3159	1/1	0.93	0.19	52,52,52,52	0
60	MG	BA	3016	1/1	0.93	0.17	11,11,11,11	0
60	MG	AD	302	1/1	0.93	0.12	21,21,21,21	0
60	MG	BA	2943	1/1	0.93	0.16	35,35,35,35	0
60	MG	BA	2944	1/1	0.93	0.09	62,62,62,62	0
60	MG	BA	3164	1/1	0.93	0.14	31,31,31,31	0
60	MG	BA	3023	1/1	0.93	0.21	21,21,21,21	0
60	MG	AA	3053	1/1	0.93	0.17	42,42,42,42	0
60	MG	Ba	1614	1/1	0.93	0.28	68,68,68,68	0
60	MG	AA	3137	1/1	0.93	0.23	90,90,90,90	0
60	MG	AA	3173	1/1	0.93	0.13	14,14,14,14	0
60	MG	Ba	1670	1/1	0.93	0.12	58,58,58,58	0
60	MG	BA	3112	1/1	0.93	0.07	69,69,69,69	0
60	MG	BA	3113	1/1	0.93	0.15	24,24,24,24	1
60	MG	AA	3014	1/1	0.93	0.37	50,50,50,50	0
60	MG	AA	3225	1/1	0.93	0.16	57,57,57,57	0
60	MG	Ba	1619	1/1	0.93	0.05	44,44,44,44	0
60	MG	AA	3156	1/1	0.93	0.10	73,73,73,73	0
60	MG	AA	2950	1/1	0.93	0.14	51,51,51,51	0
60	MG	BA	3047	1/1	0.93	0.16	36,36,36,36	0
60	MG	AA	2956	1/1	0.93	0.11	61,61,61,61	0
60	MG	AA	3142	1/1	0.93	0.19	53,53,53,53	0
60	MG	BA	3057	1/1	0.93	0.19	45,45,45,45	0
60	MG	BA	2913	1/1	0.93	0.18	11,11,11,11	0
60	MG	BA	3127	1/1	0.93	0.26	20,20,20,20	0
60	MG	AA	2920	1/1	0.93	0.20	22,22,22,22	0
60	MG	BA	3191	1/1	0.93	0.12	23,23,23,23	0
60	MG	AA	3161	1/1	0.93	0.27	61,61,61,61	0
60	MG	BA	2967	1/1	0.93	0.21	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3197	1/1	0.93	0.17	103,103,103,103	1
60	MG	AA	2911	1/1	0.93	0.28	20,20,20,20	0
60	MG	BA	3199	1/1	0.93	0.13	34,34,34,34	0
60	MG	Ba	1709	1/1	0.93	0.13	52,52,52,52	0
60	MG	BA	3133	1/1	0.93	0.08	54,54,54,54	0
60	MG	BA	2970	1/1	0.93	0.27	53,53,53,53	0
60	MG	AA	2984	1/1	0.93	0.09	45,45,45,45	0
60	MG	BA	3089	1/1	0.94	0.14	56,56,56,56	0
60	MG	AA	3054	1/1	0.94	0.12	24,24,24,24	0
60	MG	AA	3029	1/1	0.94	0.14	37,37,37,37	0
60	MG	AA	2982	1/1	0.94	0.27	56,56,56,56	0
60	MG	AA	3010	1/1	0.94	0.17	10,10,10,10	0
60	MG	BA	3096	1/1	0.94	0.06	49,49,49,49	0
60	MG	AA	3102	1/1	0.94	0.35	68,68,68,68	0
60	MG	BA	2957	1/1	0.94	0.24	13,13,13,13	0
60	MG	AA	3011	1/1	0.94	0.17	14,14,14,14	0
60	MG	Ba	1639	1/1	0.94	0.15	58,58,58,58	0
60	MG	AA	3176	1/1	0.94	0.31	74,74,74,74	0
60	MG	BA	2909	1/1	0.94	0.22	45,45,45,45	0
60	MG	AA	2996	1/1	0.94	0.28	40,40,40,40	0
60	MG	AA	3233	1/1	0.94	0.09	44,44,44,44	0
60	MG	BA	3108	1/1	0.94	0.14	50,50,50,50	0
60	MG	AA	2919	1/1	0.94	0.14	36,36,36,36	0
60	MG	AA	3082	1/1	0.94	0.09	72,72,72,72	0
60	MG	AA	2998	1/1	0.94	0.07	36,36,36,36	0
60	MG	BA	2923	1/1	0.94	0.12	29,29,29,29	0
60	MG	BA	3169	1/1	0.94	0.08	25,25,25,25	0
60	MG	AA	2906	1/1	0.94	0.18	25,25,25,25	0
60	MG	BA	3171	1/1	0.94	0.23	69,69,69,69	0
60	MG	BA	3114	1/1	0.94	0.15	8,8,8,8	0
60	MG	BA	3052	1/1	0.94	0.12	10,10,10,10	0
60	MG	BA	3054	1/1	0.94	0.19	36,36,36,36	0
60	MG	BA	3055	1/1	0.94	0.19	7,7,7,7	0
60	MG	Aa	1737	1/1	0.94	0.13	119,119,119,119	0
60	MG	AA	3022	1/1	0.94	0.14	22,22,22,22	0
60	MG	BA	3120	1/1	0.94	0.21	16,16,16,16	0
60	MG	Ba	1649	1/1	0.94	0.24	49,49,49,49	0
60	MG	BA	3122	1/1	0.94	0.13	24,24,24,24	0
60	MG	BA	2974	1/1	0.94	0.21	31,31,31,31	0
60	MG	BA	3064	1/1	0.94	0.09	44,44,44,44	0
60	MG	AA	2902	1/1	0.94	0.24	167,167,167,167	0
60	MG	Ba	1710	1/1	0.94	0.07	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3071	1/1	0.94	0.19	39,39,39,39	0
60	MG	Ba	1741	1/1	0.94	0.17	73,73,73,73	0
60	MG	AA	3187	1/1	0.94	0.24	49,49,49,49	0
60	MG	BA	2936	1/1	0.94	0.06	35,35,35,35	0
60	MG	Aa	1649	1/1	0.94	0.11	32,32,32,32	0
60	MG	AA	3140	1/1	0.94	0.24	45,45,45,45	0
60	MG	Bv	101	1/1	0.94	0.21	52,52,52,52	1
60	MG	Ba	1685	1/1	0.94	0.13	25,25,25,25	1
60	MG	BA	3259	1/1	0.94	0.14	86,86,86,86	0
60	MG	A1	101	1/1	0.94	0.18	53,53,53,53	0
60	MG	AA	3071	1/1	0.94	0.21	74,74,74,74	0
60	MG	BA	3262	1/1	0.94	0.15	39,39,39,39	0
60	MG	BA	3011	1/1	0.94	0.15	11,11,11,11	0
60	MG	Aa	1664	1/1	0.94	0.24	44,44,44,44	0
60	MG	BA	3085	1/1	0.94	0.08	60,60,60,60	0
60	MG	BD	301	1/1	0.94	0.19	14,14,14,14	0
60	MG	AA	2927	1/1	0.94	0.24	32,32,32,32	0
60	MG	AA	2981	1/1	0.94	0.23	13,13,13,13	0
60	MG	BA	2915	1/1	0.95	0.20	20,20,20,20	0
60	MG	BA	3022	1/1	0.95	0.13	16,16,16,16	0
60	MG	BA	2916	1/1	0.95	0.18	62,62,62,62	0
60	MG	BA	3090	1/1	0.95	0.11	32,32,32,32	0
60	MG	Aa	1608	1/1	0.95	0.13	39,39,39,39	0
60	MG	AA	2913	1/1	0.95	0.17	22,22,22,22	0
60	MG	BA	3028	1/1	0.95	0.15	24,24,24,24	0
60	MG	BA	3213	1/1	0.95	0.11	36,36,36,36	0
60	MG	BA	3214	1/1	0.95	0.25	34,34,34,34	0
60	MG	AA	3237	1/1	0.95	0.17	37,37,37,37	0
60	MG	BA	3152	1/1	0.95	0.18	71,71,71,71	0
60	MG	BA	3217	1/1	0.95	0.18	26,26,26,26	0
60	MG	AA	3015	1/1	0.95	0.18	14,14,14,14	0
60	MG	AA	3213	1/1	0.95	0.17	33,33,33,33	0
60	MG	AA	3123	1/1	0.95	0.18	18,18,18,18	0
60	MG	AA	3215	1/1	0.95	0.10	56,56,56,56	0
60	MG	AA	2935	1/1	0.95	0.28	69,69,69,69	0
60	MG	BA	3223	1/1	0.95	0.10	43,43,43,43	0
60	MG	BA	3040	1/1	0.95	0.11	17,17,17,17	0
60	MG	BA	3041	1/1	0.95	0.20	15,15,15,15	0
60	MG	AA	3052	1/1	0.95	0.13	18,18,18,18	0
60	MG	BA	3045	1/1	0.95	0.11	16,16,16,16	0
60	MG	AA	3106	1/1	0.95	0.19	65,65,65,65	0
60	MG	AA	2937	1/1	0.95	0.10	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	2914	1/1	0.95	0.14	15,15,15,15	0
60	MG	BA	2934	1/1	0.95	0.35	72,72,72,72	0
60	MG	BA	3051	1/1	0.95	0.14	16,16,16,16	0
60	MG	AA	3194	1/1	0.95	0.10	26,26,26,26	0
60	MG	Aa	1731	1/1	0.95	0.43	64,64,64,64	0
60	MG	Av	103	1/1	0.95	0.06	84,84,84,84	0
60	MG	BX	101	1/1	0.95	0.13	31,31,31,31	1
60	MG	BA	2982	1/1	0.95	0.21	4,4,4,4	0
60	MG	Ba	1603	1/1	0.95	0.05	64,64,64,64	0
60	MG	Aa	1618	1/1	0.95	0.12	28,28,28,28	0
60	MG	BA	3061	1/1	0.95	0.09	35,35,35,35	0
60	MG	AA	3174	1/1	0.95	0.08	72,72,72,72	0
60	MG	BA	2999	1/1	0.95	0.19	26,26,26,26	0
60	MG	Aa	1745	1/1	0.95	0.19	48,48,48,48	0
60	MG	BA	3070	1/1	0.95	0.09	83,83,83,83	0
60	MG	BA	3004	1/1	0.95	0.07	46,46,46,46	0
60	MG	BA	3005	1/1	0.95	0.17	21,21,21,21	0
60	MG	BA	3184	1/1	0.95	0.10	57,57,57,57	0
60	MG	AA	3093	1/1	0.95	0.11	56,56,56,56	0
60	MG	BA	2946	1/1	0.95	0.06	75,75,75,75	0
60	MG	AA	3115	1/1	0.95	0.15	19,19,19,19	0
60	MG	AA	3043	1/1	0.95	0.10	37,37,37,37	0
60	MG	BA	3190	1/1	0.95	0.13	13,13,13,13	0
60	MG	AA	3044	1/1	0.95	0.35	17,17,17,17	0
60	MG	AA	2910	1/1	0.95	0.33	49,49,49,49	0
60	MG	BA	3194	1/1	0.95	0.13	12,12,12,12	0
60	MG	BA	3195	1/1	0.95	0.09	37,37,37,37	0
60	MG	BA	3079	1/1	0.95	0.15	82,82,82,82	0
60	MG	BA	3014	1/1	0.95	0.18	1,1,1,1	0
60	MG	AA	2946	1/1	0.95	0.06	101,101,101,101	0
60	MG	BA	2910	1/1	0.95	0.20	2,2,2,2	0
60	MG	BA	3200	1/1	0.95	0.10	33,33,33,33	0
60	MG	BA	3083	1/1	0.95	0.30	52,52,52,52	0
60	MG	BA	3017	1/1	0.95	0.11	38,38,38,38	0
60	MG	AA	3182	1/1	0.95	0.14	40,40,40,40	0
60	MG	AA	3234	1/1	0.95	0.17	79,79,79,79	0
60	MG	AA	2979	1/1	0.96	0.10	51,51,51,51	0
60	MG	BA	2964	1/1	0.96	0.23	49,49,49,49	0
60	MG	BA	3026	1/1	0.96	0.07	40,40,40,40	0
60	MG	A5	101	1/1	0.96	0.19	34,34,34,34	0
60	MG	AA	3045	1/1	0.96	0.12	22,22,22,22	0
60	MG	Ba	1693	1/1	0.96	0.07	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	BA	3030	1/1	0.96	0.18	26,26,26,26	0
60	MG	Aa	1660	1/1	0.96	0.14	49,49,49,49	0
60	MG	BA	2928	1/1	0.96	0.09	17,17,17,17	0
60	MG	AA	3101	1/1	0.96	0.16	46,46,46,46	0
60	MG	AA	2969	1/1	0.96	0.08	22,22,22,22	0
60	MG	BD	302	1/1	0.96	0.10	18,18,18,18	0
60	MG	BA	3037	1/1	0.96	0.12	35,35,35,35	0
60	MG	BA	3038	1/1	0.96	0.12	26,26,26,26	0
60	MG	Ba	1723	1/1	0.96	0.05	103,103,103,103	0
60	MG	AA	3193	1/1	0.96	0.10	20,20,20,20	0
60	MG	Aa	1724	1/1	0.96	0.05	71,71,71,71	0
60	MG	BA	3166	1/1	0.96	0.08	50,50,50,50	0
60	MG	BA	2937	1/1	0.96	0.19	67,67,67,67	0
60	MG	Aa	1638	1/1	0.96	0.18	62,62,62,62	0
60	MG	B5	101	1/1	0.96	0.15	27,27,27,27	0
60	MG	AA	2942	1/1	0.96	0.20	40,40,40,40	0
60	MG	BA	2984	1/1	0.96	0.18	22,22,22,22	0
60	MG	BA	3050	1/1	0.96	0.05	29,29,29,29	0
60	MG	AA	3016	1/1	0.96	0.10	31,31,31,31	0
60	MG	B7	102	1/1	0.96	0.25	57,57,57,57	0
60	MG	BA	2988	1/1	0.96	0.11	34,34,34,34	0
60	MG	BA	2989	1/1	0.96	0.28	31,31,31,31	0
60	MG	BA	2991	1/1	0.96	0.25	32,32,32,32	0
60	MG	BA	2995	1/1	0.96	0.17	14,14,14,14	0
60	MG	AA	3108	1/1	0.96	0.04	38,38,38,38	0
60	MG	BA	2998	1/1	0.96	0.11	14,14,14,14	0
60	MG	BA	2902	1/1	0.96	0.19	60,60,60,60	0
60	MG	BA	3063	1/1	0.96	0.12	26,26,26,26	0
60	MG	AA	3129	1/1	0.96	0.10	29,29,29,29	0
60	MG	BA	3001	1/1	0.96	0.05	37,37,37,37	0
60	MG	BA	3002	1/1	0.96	0.15	41,41,41,41	0
60	MG	BA	3246	1/1	0.96	0.10	89,89,89,89	0
60	MG	BA	3068	1/1	0.96	0.22	64,64,64,64	0
60	MG	BA	3069	1/1	0.96	0.09	35,35,35,35	0
60	MG	AA	3070	1/1	0.96	0.10	54,54,54,54	0
60	MG	BA	2906	1/1	0.96	0.13	26,26,26,26	0
60	MG	Ba	1652	1/1	0.96	0.04	69,69,69,69	0
60	MG	BA	2950	1/1	0.96	0.08	37,37,37,37	0
60	MG	AA	3131	1/1	0.96	0.26	46,46,46,46	0
60	MG	AA	3017	1/1	0.96	0.14	18,18,18,18	0
60	MG	Ba	1682	1/1	0.96	0.05	66,66,66,66	0
60	MG	BA	2954	1/1	0.96	0.09	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Aa	1626	1/1	0.96	0.06	63,63,63,63	0
60	MG	AA	2934	1/1	0.96	0.20	32,32,32,32	1
60	MG	AD	301	1/1	0.96	0.14	21,21,21,21	0
60	MG	BA	3139	1/1	0.96	0.04	15,15,15,15	0
60	MG	AA	2936	1/1	0.96	0.23	5,5,5,5	0
60	MG	BA	3142	1/1	0.96	0.27	53,53,53,53	0
60	MG	AA	2966	1/1	0.96	0.23	57,57,57,57	0
60	MG	AA	3095	1/1	0.96	0.24	26,26,26,26	0
60	MG	BA	2961	1/1	0.96	0.08	28,28,28,28	0
60	MG	AA	3042	1/1	0.96	0.20	27,27,27,27	0
60	MG	A1	102	1/1	0.97	0.16	116,116,116,116	0
60	MG	BF	301	1/1	0.97	0.04	40,40,40,40	0
60	MG	BA	3039	1/1	0.97	0.11	15,15,15,15	0
60	MG	AA	3169	1/1	0.97	0.07	44,44,44,44	0
60	MG	BA	3192	1/1	0.97	0.04	34,34,34,34	0
60	MG	BA	3006	1/1	0.97	0.13	21,21,21,21	0
60	MG	AA	3184	1/1	0.97	0.07	44,44,44,44	0
60	MG	BA	2920	1/1	0.97	0.11	24,24,24,24	0
60	MG	BA	3155	1/1	0.97	0.07	59,59,59,59	0
60	MG	AA	3062	1/1	0.97	0.10	26,26,26,26	0
60	MG	AA	2918	1/1	0.97	0.34	25,25,25,25	0
60	MG	BA	2949	1/1	0.97	0.07	42,42,42,42	0
60	MG	AA	2962	1/1	0.97	0.05	19,19,19,19	0
60	MG	AA	2938	1/1	0.97	0.11	84,84,84,84	0
60	MG	Ba	1636	1/1	0.97	0.15	60,60,60,60	0
60	MG	BA	2980	1/1	0.97	0.22	9,9,9,9	0
60	MG	AA	3039	1/1	0.97	0.12	19,19,19,19	0
60	MG	AA	3040	1/1	0.97	0.05	21,21,21,21	0
60	MG	BA	3056	1/1	0.97	0.17	92,92,92,92	0
60	MG	Aa	1624	1/1	0.97	0.09	37,37,37,37	0
60	MG	BA	3248	1/1	0.97	0.29	47,47,47,47	0
60	MG	BA	2985	1/1	0.97	0.09	26,26,26,26	0
60	MG	AA	2988	1/1	0.97	0.17	33,33,33,33	0
60	MG	BA	2904	1/1	0.97	0.15	1,1,1,1	0
60	MG	BA	3095	1/1	0.97	0.10	33,33,33,33	0
60	MG	AA	2916	1/1	0.97	0.18	25,25,25,25	0
60	MG	Ba	1661	1/1	0.97	0.12	41,41,41,41	0
60	MG	BA	2990	1/1	0.97	0.09	10,10,10,10	0
60	MG	BA	3256	1/1	0.97	0.26	39,39,39,39	0
60	MG	BA	3065	1/1	0.97	0.12	13,13,13,13	0
60	MG	BA	2935	1/1	0.97	0.26	25,25,25,25	0
60	MG	BA	2994	1/1	0.97	0.20	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	AA	3032	1/1	0.97	0.07	33,33,33,33	0
60	MG	BA	3140	1/1	0.97	0.17	25,25,25,25	0
60	MG	BA	3104	1/1	0.97	0.06	31,31,31,31	0
60	MG	BA	3105	1/1	0.97	0.12	40,40,40,40	0
60	MG	AA	2930	1/1	0.97	0.05	15,15,15,15	0
60	MG	AA	2974	1/1	0.97	0.33	43,43,43,43	0
60	MG	AA	3199	1/1	0.97	0.12	53,53,53,53	0
60	MG	Ba	1625	1/1	0.97	0.10	72,72,72,72	0
60	MG	Ba	1607	1/1	0.97	0.06	75,75,75,75	0
60	MG	AA	3197	1/1	0.98	0.25	22,22,22,22	0
60	MG	Aa	1710	1/1	0.98	0.09	29,29,29,29	0
60	MG	AA	2924	1/1	0.98	0.04	32,32,32,32	0
60	MG	AA	2908	1/1	0.98	0.11	25,25,25,25	0
60	MG	Ba	1623	1/1	0.98	0.05	34,34,34,34	0
60	MG	AA	3012	1/1	0.98	0.07	22,22,22,22	0
60	MG	Aa	1726	1/1	0.98	0.21	36,36,36,36	0
59	ZN	Bn	101	1/1	0.98	0.04	137,137,137,137	0
60	MG	BA	3157	1/1	0.98	0.08	85,85,85,85	0
60	MG	BA	3042	1/1	0.98	0.09	30,30,30,30	0
60	MG	BA	3043	1/1	0.98	0.28	17,17,17,17	0
59	ZN	An	101	1/1	0.98	0.03	153,153,153,153	0
60	MG	AA	2912	1/1	0.98	0.07	26,26,26,26	0
60	MG	Bv	102	1/1	0.98	0.08	37,37,37,37	0
60	MG	Ba	1673	1/1	0.98	0.06	39,39,39,39	0
60	MG	BA	3009	1/1	0.98	0.11	3,3,3,3	0
60	MG	BA	2914	1/1	0.98	0.08	11,11,11,11	0
60	MG	Ba	1629	1/1	0.98	0.06	36,36,36,36	0
60	MG	BA	2975	1/1	0.98	0.20	105,105,105,105	0
60	MG	AA	3004	1/1	0.98	0.10	39,39,39,39	0
60	MG	AA	3105	1/1	0.98	0.09	47,47,47,47	0
60	MG	BA	3210	1/1	0.98	0.11	22,22,22,22	0
60	MG	BA	2978	1/1	0.98	0.05	56,56,56,56	0
60	MG	Aa	1634	1/1	0.98	0.05	47,47,47,47	0
60	MG	Ba	1633	1/1	0.98	0.07	39,39,39,39	0
60	MG	BA	2921	1/1	0.98	0.06	31,31,31,31	0
60	MG	AA	3091	1/1	0.98	0.11	27,27,27,27	0
60	MG	Ba	1680	1/1	0.98	0.02	63,63,63,63	0
60	MG	AA	3019	1/1	0.98	0.10	26,26,26,26	0
60	MG	BA	3100	1/1	0.98	0.10	62,62,62,62	0
60	MG	AA	2995	1/1	0.98	0.20	18,18,18,18	0
60	MG	AA	3007	1/1	0.98	0.06	43,43,43,43	0
60	MG	BA	3025	1/1	0.98	0.09	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
60	MG	Ba	1732	1/1	0.98	0.08	70,70,70,70	0
60	MG	AA	3143	1/1	0.98	0.05	29,29,29,29	0
60	MG	BA	2929	1/1	0.98	0.04	10,10,10,10	0
60	MG	AA	3195	1/1	0.98	0.07	30,30,30,30	0
60	MG	BA	2992	1/1	0.98	0.12	33,33,33,33	0
60	MG	BA	2993	1/1	0.98	0.20	12,12,12,12	0
60	MG	Aa	1603	1/1	0.98	0.05	68,68,68,68	1
60	MG	BA	2911	1/1	0.99	0.05	21,21,21,21	0
60	MG	BA	3003	1/1	0.99	0.07	22,22,22,22	0
60	MG	BA	3018	1/1	0.99	0.09	2,2,2,2	0
60	MG	AA	3041	1/1	0.99	0.06	21,21,21,21	0
59	ZN	Bd	302	1/1	0.99	0.17	80,80,80,80	0
60	MG	BA	3053	1/1	0.99	0.08	12,12,12,12	0
59	ZN	B9	101	1/1	0.99	0.04	116,116,116,116	0
59	ZN	A9	101	1/1	0.99	0.04	138,138,138,138	0
60	MG	Aa	1630	1/1	0.99	0.03	36,36,36,36	0
60	MG	BA	2983	1/1	0.99	0.03	21,21,21,21	0
60	MG	AA	2989	1/1	0.99	0.04	33,33,33,33	0
60	MG	BA	3185	1/1	0.99	0.27	40,40,40,40	0
60	MG	BA	2997	1/1	0.99	0.07	22,22,22,22	0
60	MG	Aa	1681	1/1	0.99	0.02	76,76,76,76	0
60	MG	BA	2919	1/1	0.99	0.05	13,13,13,13	0
60	MG	BA	3062	1/1	0.99	0.07	36,36,36,36	0
60	MG	Aa	1671	1/1	0.99	0.05	49,49,49,49	0
60	MG	AA	3057	1/1	0.99	0.05	92,92,92,92	0
60	MG	BA	3031	1/1	0.99	0.06	14,14,14,14	0
59	ZN	Ad	301	1/1	1.00	0.18	76,76,76,76	0

6.5 Other polymers (i)

There are no such residues in this entry.