



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:46 PM GMT

PDB ID : 4V5F
Title : The structure of the ribosome with elongation factor G trapped in the post-translocational state
Authors : Gao, Y.-G.; Selmer, M.; Dunham, C.M.; Weixlbaumer, A.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2009-09-01
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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

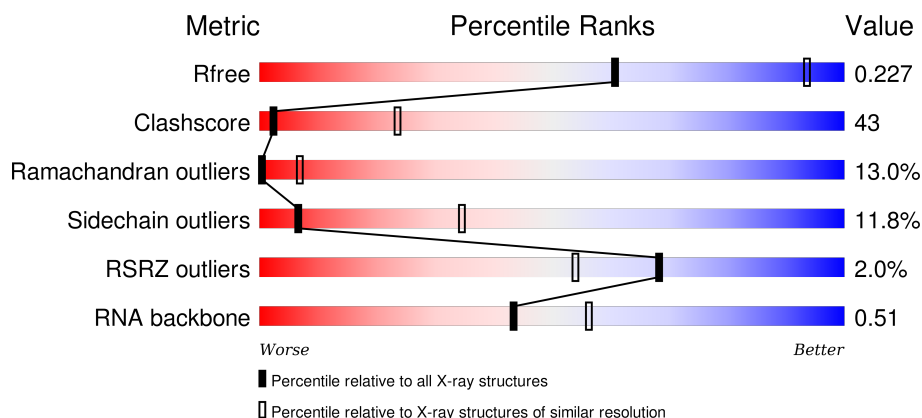
1 Overall quality at a glance i

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.



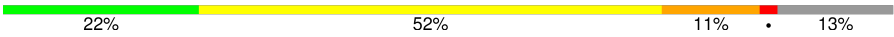
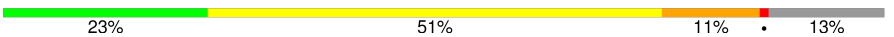



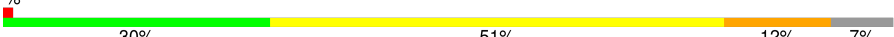
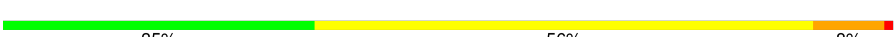
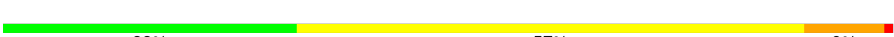
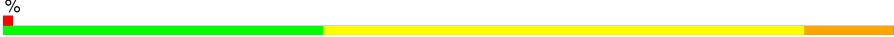

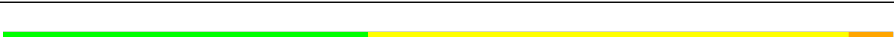
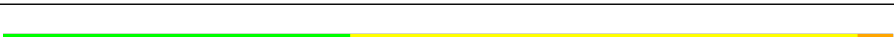

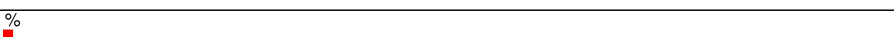
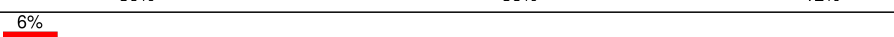
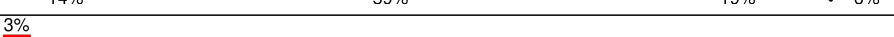



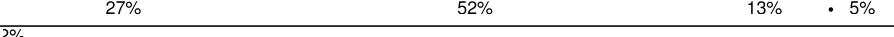
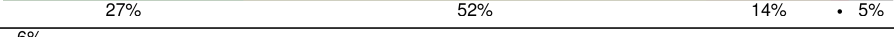
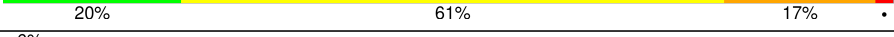
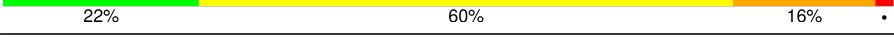


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1408 (3.80-3.40)
Clashscore	102246	1010 (3.74-3.46)
Ramachandran outliers	100387	1007 (3.76-3.44)
Sidechain outliers	100360	1007 (3.76-3.44)
RSRZ outliers	91569	1003 (3.78-3.42)
RNA backbone	2183	1058 (4.40-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="display: flex; justify-content: space-between; margin-top: 2px;"> 28% 55% 13% .. </div> </div>
1	CA	1522	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="display: flex; justify-content: space-between; margin-top: 2px;"> 27% 57% 14% .. </div> </div>
2	AB	256	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="display: flex; justify-content: space-between; margin-top: 2px;"> 24% 50% 16% • 8% </div> </div>
2	CB	256	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green);"></div> <div style="display: flex; justify-content: space-between; margin-top: 2px;"> 23% 50% 16% • 8% </div> </div>


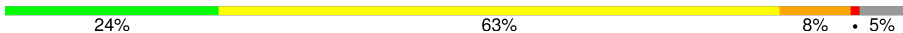
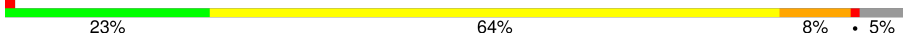


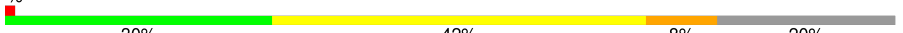
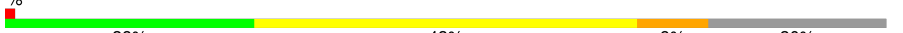




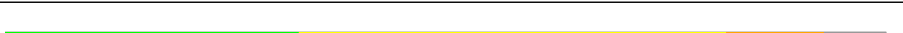





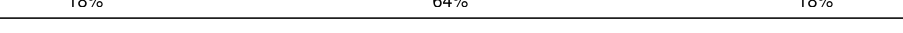


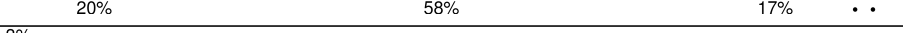
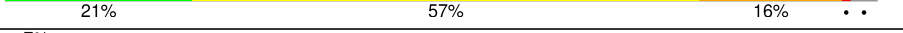


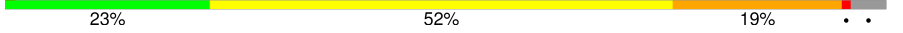
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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126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

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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	25	
23	CX	25	
24	AY	691	
24	CY	691	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	

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Mol	Chain	Length	Quality of chain
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2915	
35	DA	2915	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	



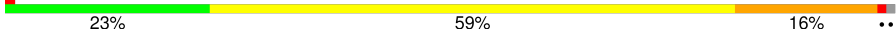
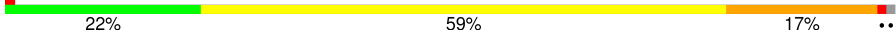
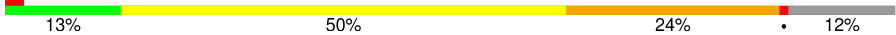
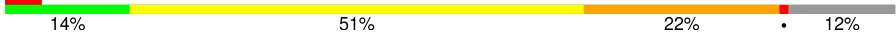
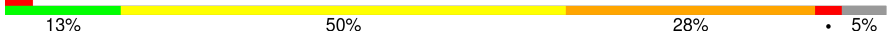
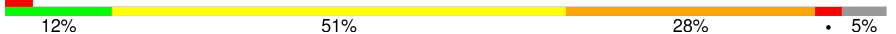
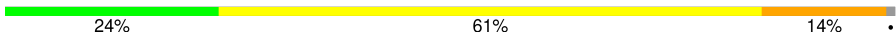
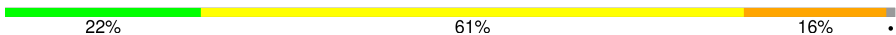
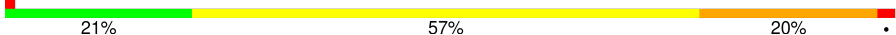
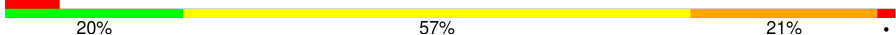
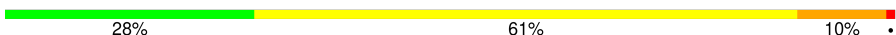







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Mol	Chain	Length	Quality of chain
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BJ	173	
43	DJ	173	
44	BK	147	
44	DK	147	
45	BL	125	
45	BM	125	
45	Bl	125	
45	Bm	125	
45	DL	125	
45	DM	125	
45	Dl	125	
45	Dm	125	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	

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Mol	Chain	Length	Quality of chain
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

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
61	FUA	AY	702	-	-	-	X
61	FUA	CY	702	-	-	X	-

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 311552 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O		0	0	0
			1010	639	197	174				
9	CI	127	Total	C	N	O		0	0	0
			1010	639	197	174				

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			
13	CM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 22 is a RNA chain called E-SITE TRNA FMET OR P-SITE TRNA FMET (UN-MODIFIED BASES EXCEPT FOR THYMINE 54).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	AW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
22	CW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			
23	CX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			

- Molecule 24 is a protein called ELONGATION FACTOR G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			
24	CY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
25	D0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			
29	D4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
30	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
34	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			
35	DA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			
37	DC	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			
38	DD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			
42	DH	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				
43	DJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			
44	DK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	BM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				
45	DL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	DM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			
57	DY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			
58	DZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			

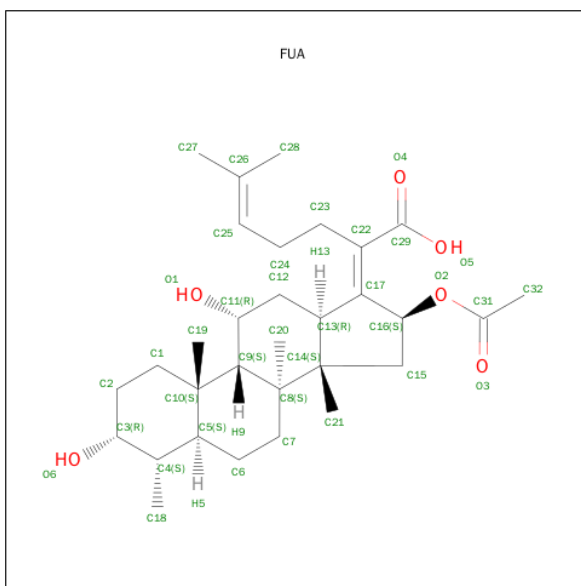
- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	B4	1	Total	Zn	0	0
			1	1		
59	CN	1	Total	Zn	0	0
			1	1		
59	AN	1	Total	Zn	0	0
			1	1		
59	B9	1	Total	Zn	0	0
			1	1		
59	D9	1	Total	Zn	0	0
			1	1		
59	D4	1	Total	Zn	0	0
			1	1		
59	CD	1	Total	Zn	0	0
			1	1		
59	AD	1	Total	Zn	0	0
			1	1		

- Molecule 60 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

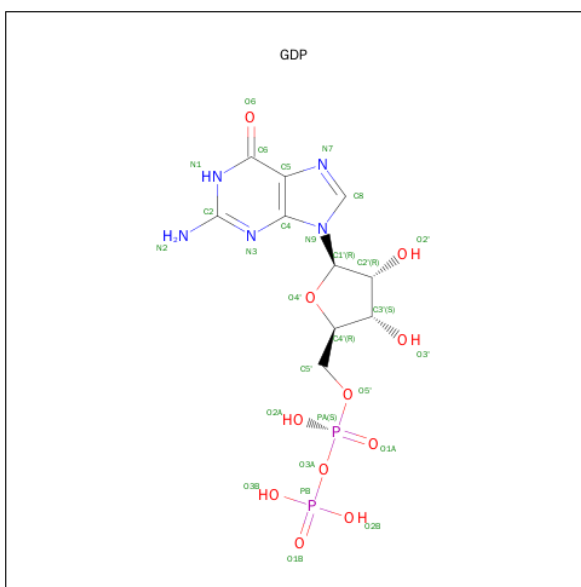
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AY	1	Total	Mg	0	0
			1	1		
60	CY	1	Total	Mg	0	0
			1	1		

- Molecule 61 is FUSIDIC ACID (three-letter code: FUA) (formula: $C_{31}H_{48}O_6$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AY	1	Total C O 37 31 6	0	0
61	CY	1	Total C O 37 31 6	0	0

- Molecule 62 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).

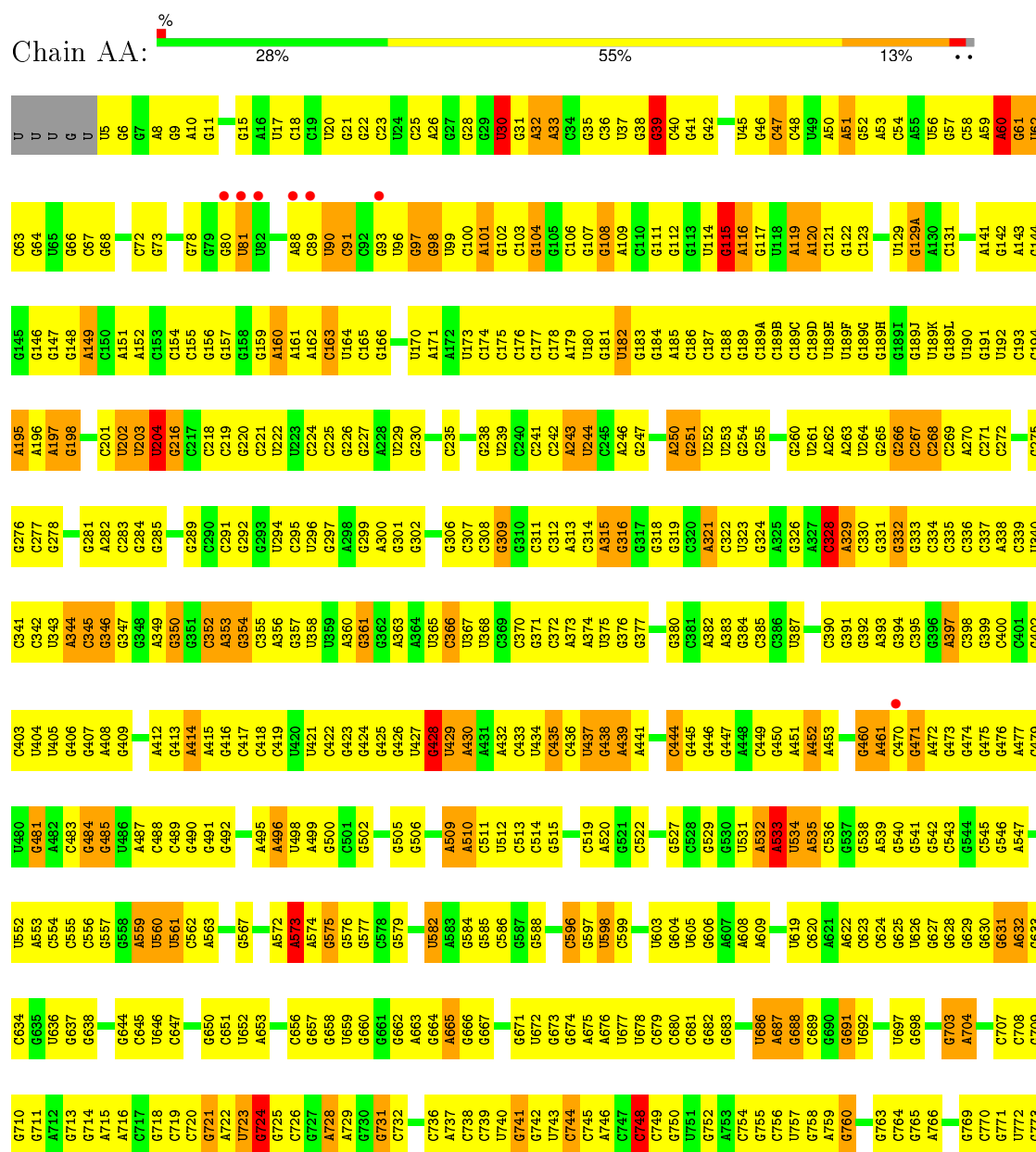


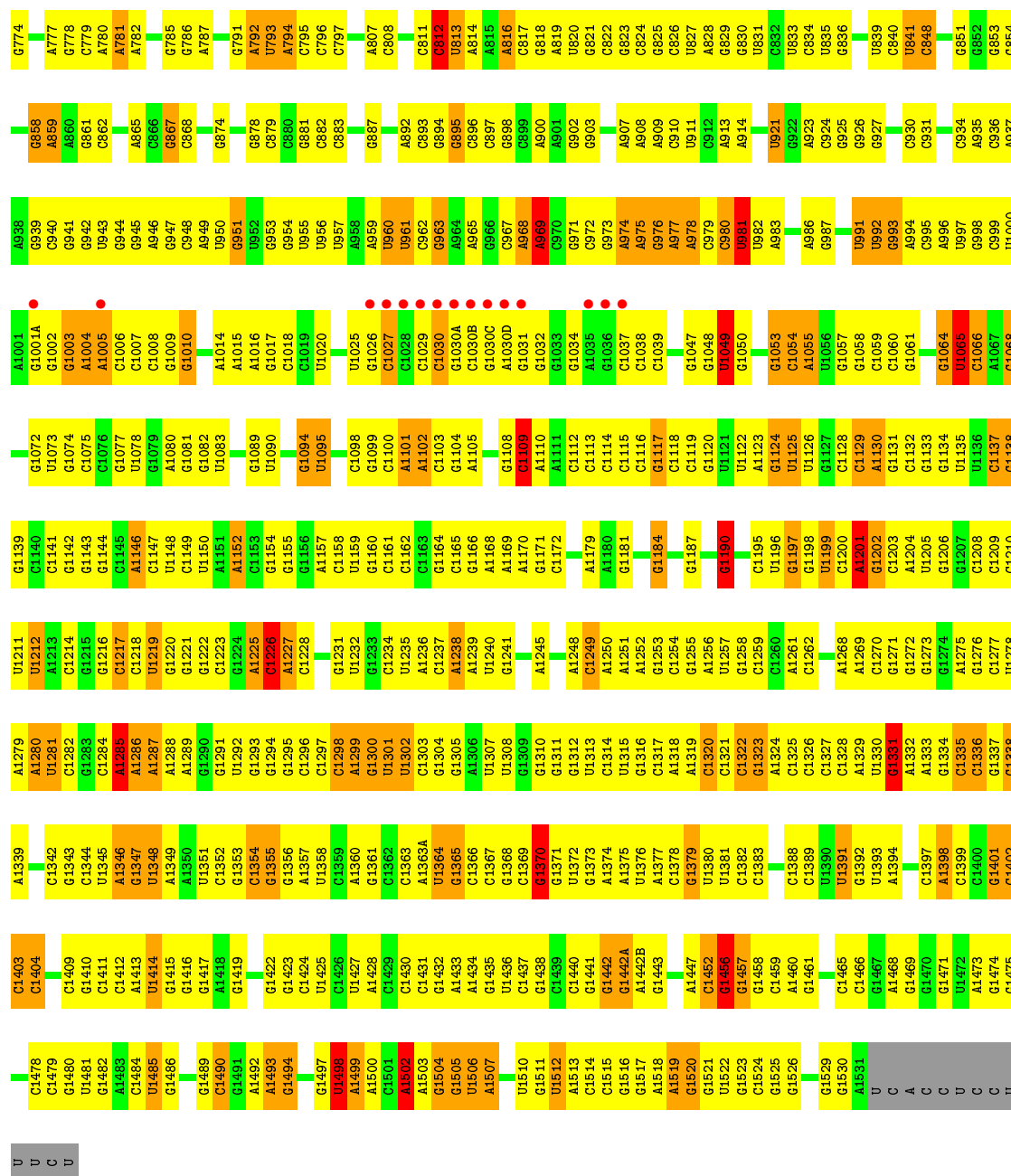
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
62	AY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		
62	CY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

3 Residue-property plots

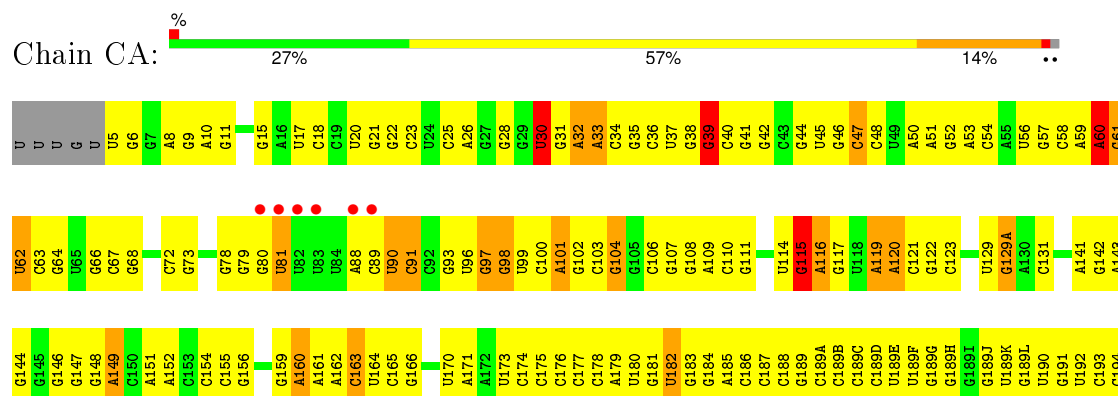
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according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

• Molecule 1: 16S rRNA

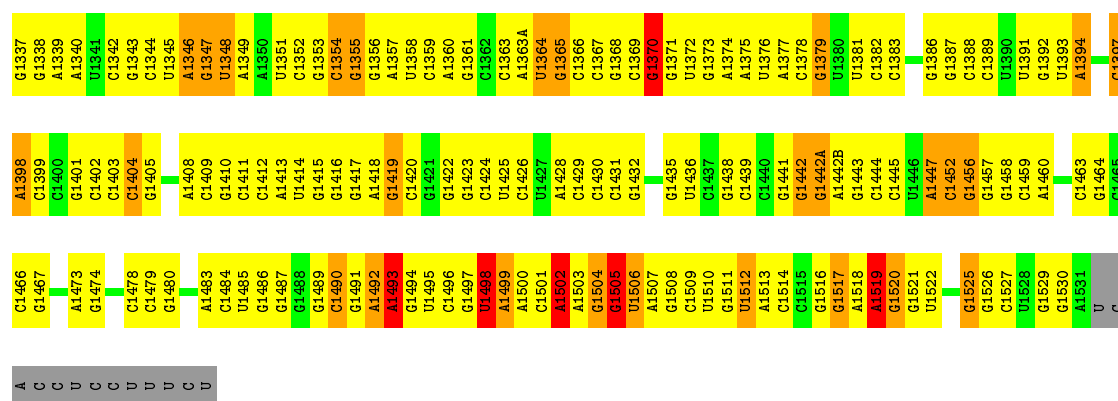




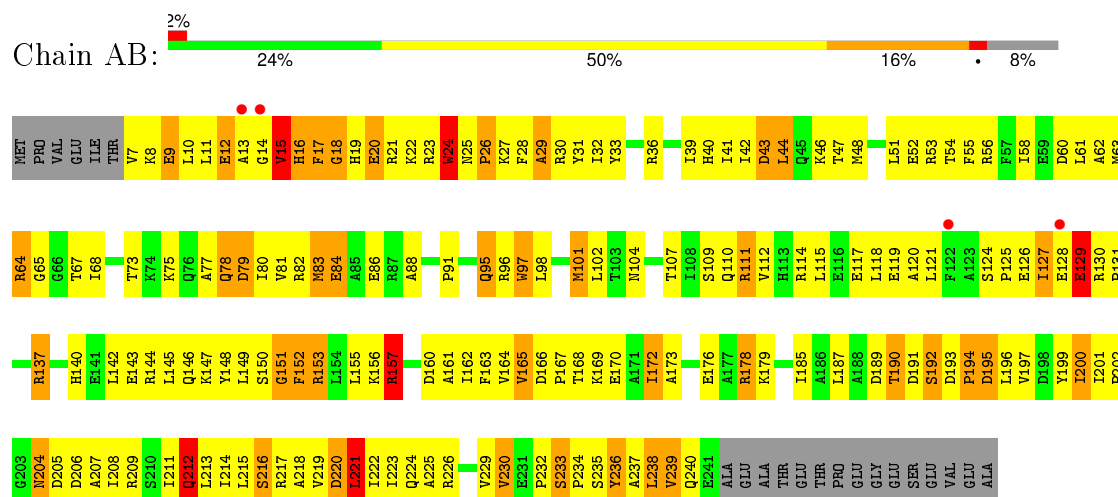
• Molecule 1: 16S rRNA



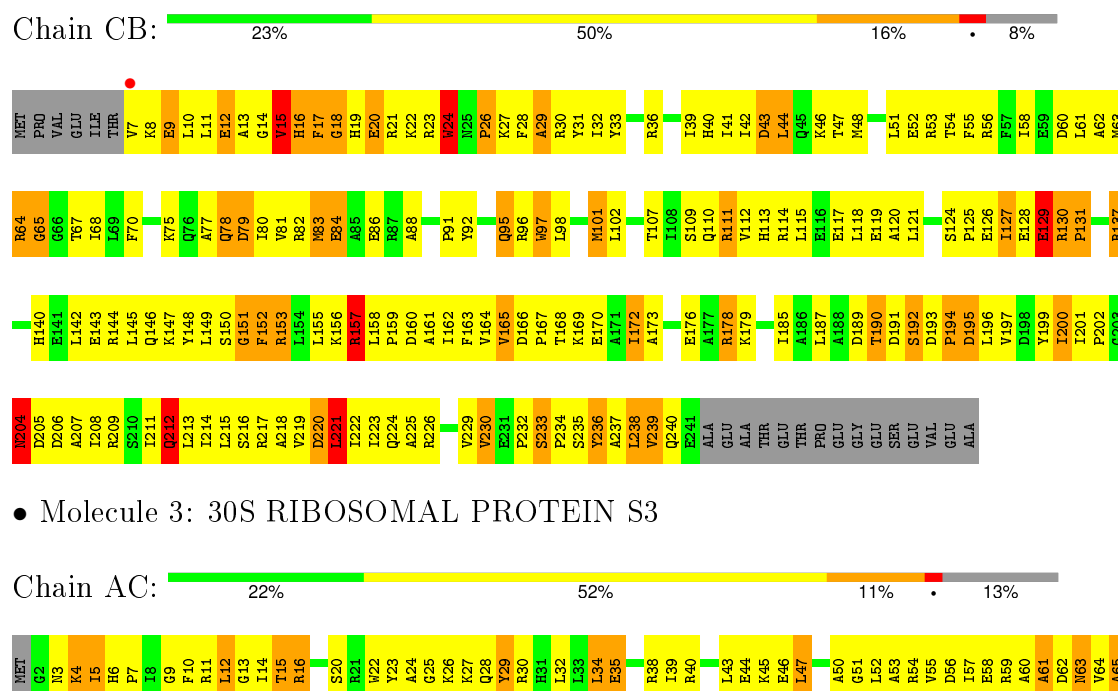
G1277	U1211	G1143	G1001A	G939	G854	G778	A712	G638	C556	U486	A408	A344	G278	A195
U1278	U1212	G1144	G1002	G940	G858	G779	G713	G641	G557	A487	G409	G345	G281	A196
A1279	A1213	C1145	G1003	G941	A780	A781	G714	U641	G558	C488	A412	G346	A282	A197
A1280	C1214	A1146	A1004	G942	A859	A782	A715	U646	U560	C489	A413	G347	C283	G198
U1281	G1215	C1147	A1005	G943	A860	A783	G716	C547	U561	G490	A414	A348	G284	C201
C1282	G1216	U1148	C1006	G944	G861	G783	G717	G650	C562	G491	A415	G350	G285	U202
G1283	G1217	C1149	C1007	G945	C862	G784	G718	G651	A572	G492	A416	G351	U203	U203
C1284	U1150	U1150	G1008	G946	A865	G785	G719	C651	U572	A495	G417	G352	G289	U204
A1285	G1009	G1078	G1009	G947	C866	A787	G720	C652	A573	U496	C418	A353	C290	G216
A1286	A1151	G1079	G1010	C948	C867	A787	G721	A653	A574	U498	C419	G354	C291	C217
A1287	C1153	A1080	A1015	G949	C868	G791	U723	C656	G575	A499	U420	C355	G292	C218
A1288	G1154	G1082	A1016	U950	C874	A792	G724	G657	G576	G500	C422	A356	G293	C219
G1290	U1083	U1083	A1017	U951	G874	U793	G725	G658	G577	G501	G423	G357	U294	G220
G1291	A1157	G1089	A1018	G953	G878	A794	G726	G659	C579	G502	G424	U358	C295	G221
U1292	C1158	U1090	C1018	G954	C879	C796	G727	U659	G579	U359	G425	U360	U296	U222
G1293	U1159	G1081	C1019	U955	C890	C797	A728	G661	U582	G505	G428	A360	C297	U223
G1294	G1160	U1094	U1020	U956	C891	C797	G729	G662	A583	G506	U429	G362	G298	U229
G1295	C1161	U1095	U1021	U957	C892	A802	G730	A663	G584	A509	U430	A363	A300	U230
C1296	C1162	C1182	U1025	A958	C893	G803	G731	A664	G585	A510	A431	U365	G301	C235
C1297	C1183	C1183	G1026	A959	C894	C732	C732	A665	G586	C511	A432	U366	G302	
C1298	A1163	A1163	C1027	U960	C895	A733	A733	G666	G588	C512	C433	U367	G306	G238
A1299	C1165	A1102	C1028	U961	C896	A807	G736	G667	C589	C513	C434	U368	C307	U239
G1300	G1166	C1103	C1029	G962	C897	C808	A737	U672	U598	C514	C435	U369	C308	G240
U1301	A1168	G1104	G1030	G963	C898	C817	G738	G673	C599	C515	C436	G370	G309	C241
A1236	A1169	A1105	G1030A	A964	A892	C811	G739	G674	A602	C519	C437	G371	C311	A243
C1237	A1170	G1108	C1030B	A965	C893	C812	C739	U675	A603	G521	U438	G372	C312	U244
C1303	A1171	G1108	G1030C	G966	C894	U813	U740	A675	A607	C522	U439	C373	C313	C245
G1305	C1172	C1172	C1030D	G967	C895	A814	G741	A676	A608	C523	A441	A374	C314	A246
A1306	G1173	C1112	G1031	A968	C896	A815	G742	U677	U609	A524	C444	U375	A315	G247
U1307	G1174	C1113	G1032	A969	C897	A816	U743	U678	C620	C525	C445	G376	G316	
U1308	G1175	C1114	G1033	C970	C898	C817	G744	U679	G617	C526	C446	G377	G317	A250
G1309	G1176	C1115	G1034	G971	C899	G818	C747	C680	U618	C527	G446	G380	G318	G251
G1310	A1179	C1116	A1035	G972	A900	U820	C748	C681	U619	C528	G447	C381	G319	U252
A1248	G1180	G1117	G1036	G973	A901	U821	G749	G682	A609	C529	C448	C382	C320	U253
G1249	G1181	C1118	C1037	A974	A902	G821	C750	G683	A610	U531	C449	A382	A321	G254
A1250	G1184	C1119	C1038	A975	A903	G822	G751	G686	G617	A532	C450	A383	C322	G255
U1315	A1251	U1121	G1047	A977	C910	C824	C754	U686	U618	C533	A451	G384	U323	U256
A1252	G1187	A1123	C1048	C979	A913	C826	C755	G687	U619	A534	A452	C385	G324	G257
C1317	G1253	G1124	U1049	C980	A914	U827	C756	G688	U620	A535	C453	C390	A325	G260
A1318	G1254	U1125	G1050	U981	A915	A828	C757	G689	C621	C536	C454	C391	A326	U261
A1319	G1255	U1126	G1051	U982	U921	G829	C758	G691	A622	C537	C455	G392	A327	A262
C1320	A1256	U1126	G1052	U983	G922	G830	C759	U692	A623	C538	C456	G393	C328	A263
C1321	U1257	C1195	G1053	A983	A923	U831	C760	G693	C623	A539	C457	A393	A329	A264
C1322	G1258	U1196	C1054	A984	A924	C832	G763	A694	C624	C540	C471	G394	C330	U265
G1323	C1259	G1187	A1055	A986	C924	U833	C764	A695	G625	C541	A472	C395	G331	G265
A1324	C1260	G1198	U1056	G987	G925	U834	G765	A696	U626	C542	G473	C396	G332	G266
C1325	A1261	U1199	G1057	U981	G926	U835	A766	U697	G628	C543	C474	A397	G333	C267
C1326	C1262	C1200	G1058	U982	G927	U836	A767	G698	G629	C544	C475	C398	C334	C268
G1327		A1201	C1059	U983	C930	G836	A768		G630	C545	C476	C399	C335	C269
C1328	A1268	C1202	C1060	G993	C931	U839	A769	A704	G631	C546	C477	C400	C336	A270
A1329	A1269	C1203	G1061	A994	C932	U840	C770	G707	G632	C547	U480	C401	C337	C271
U1330	C1270	A1204	U1062	C995	G933	U841	C771	G708	A632	C548	C481	C402	A338	C272
G1331	G1271	U1205	C1063	A996	G934	C848	U772	C709	G633	C549	C482	C403	C341	G275
A1332	G1272	G1206	G1064	U997	C934	C849	U773	G710	C634	C550	A483	U404	C342	G276
A1333	G1273	G1207	U1065	G998	A935	G851	G774	G635	G635	C551	C484	U405	C343	G277
G1334	G1274	C1208	C1066	G999	C936	G852	G775	U636	U636	C552	C485	U406	C344	
C1335	A1275	C1209	A1067	U1000	A937	G853	A777	G711	G637	C553	G486	G407	U343	
C1336	G1276	C1210	G1068	A1001	A938	G854								

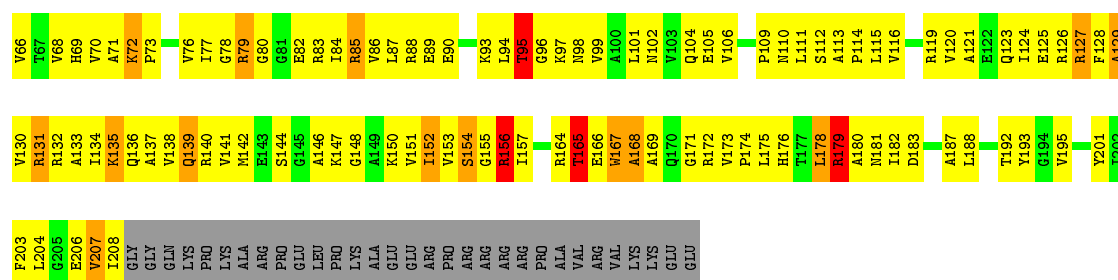


• Molecule 2: 30S RIBOSOMAL PROTEIN S2



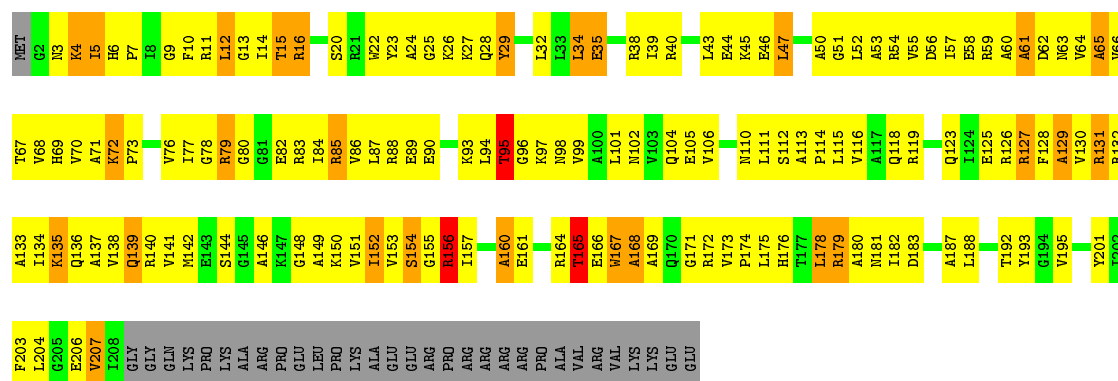
• Molecule 3: 30S RIBOSOMAL PROTEIN S3





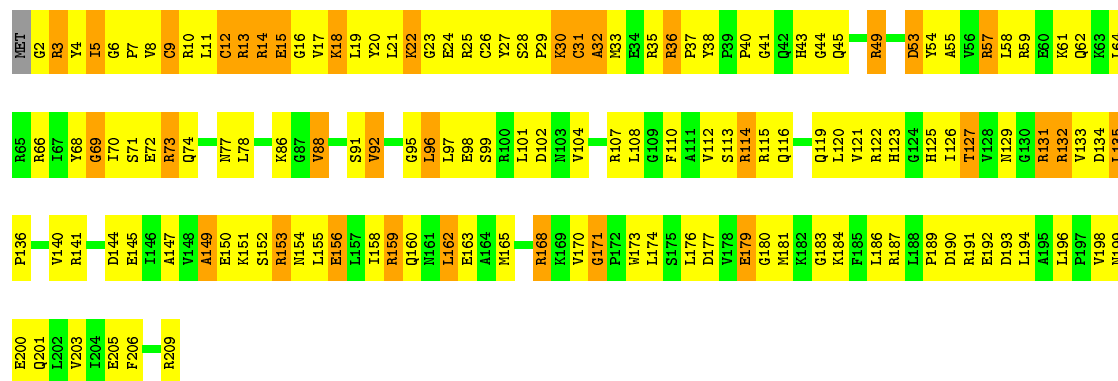
• Molecule 3: 30S RIBOSOMAL PROTEIN S3

Chain CC: 23% 51% 11% 13%



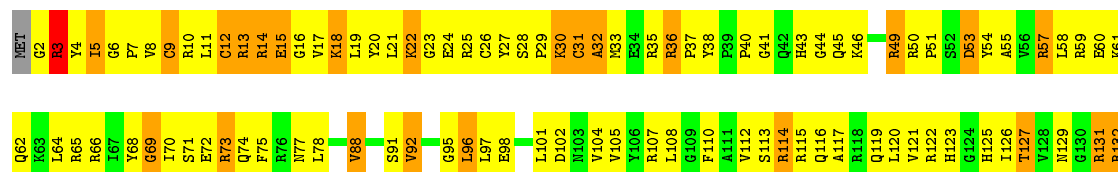
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

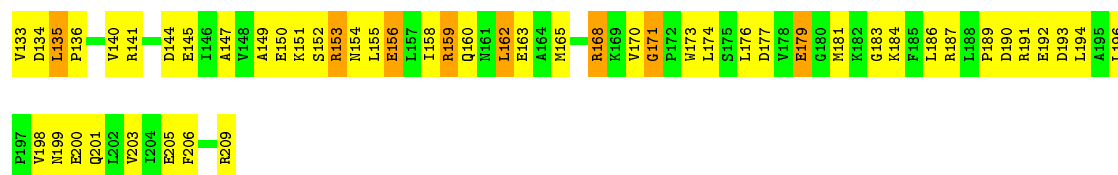
Chain AD: 31% 53% 16%



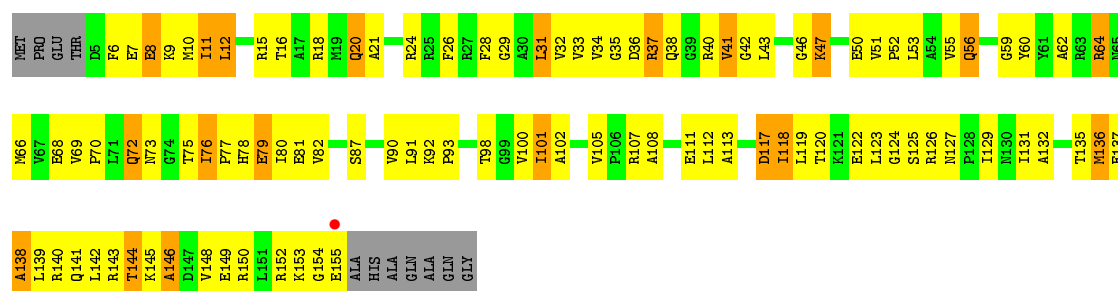
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain CD: 28% 56% 15%

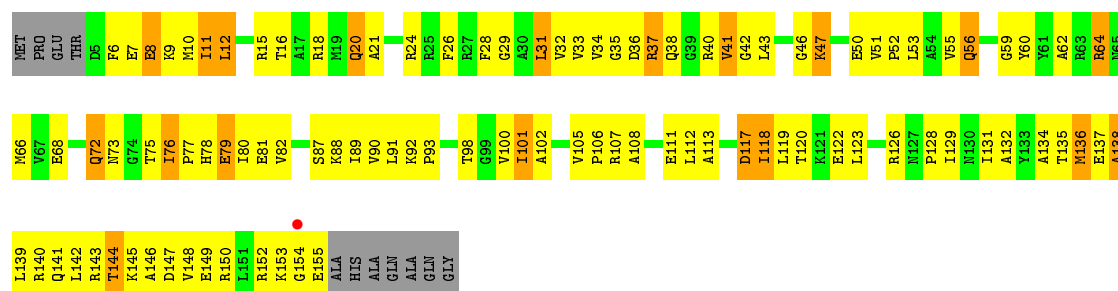




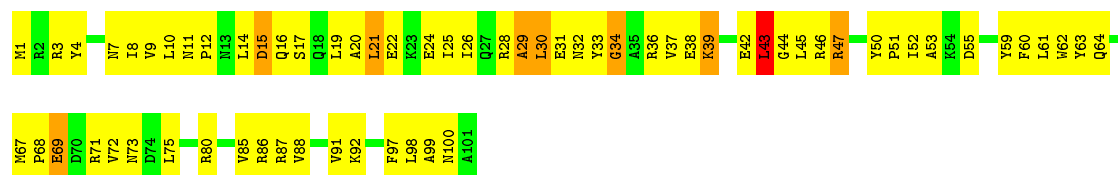
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



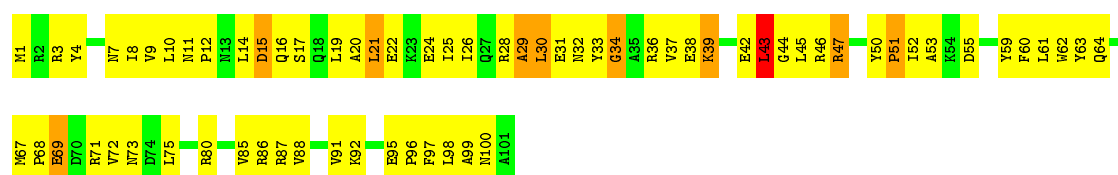
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



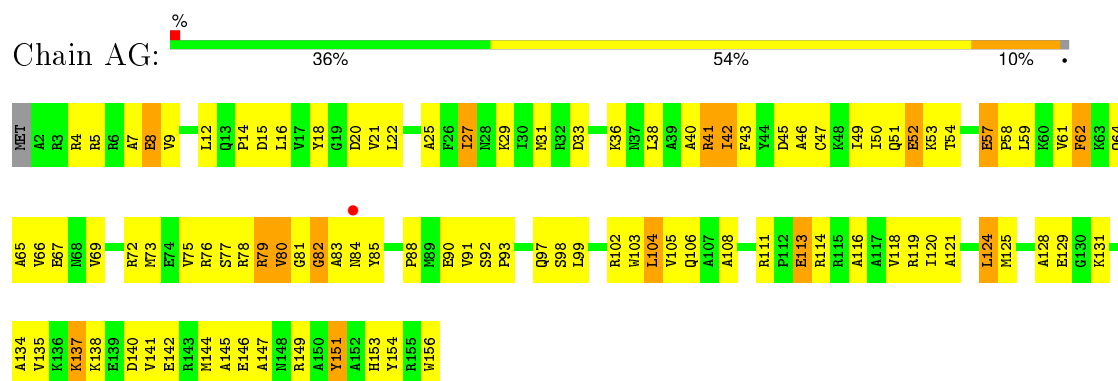
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



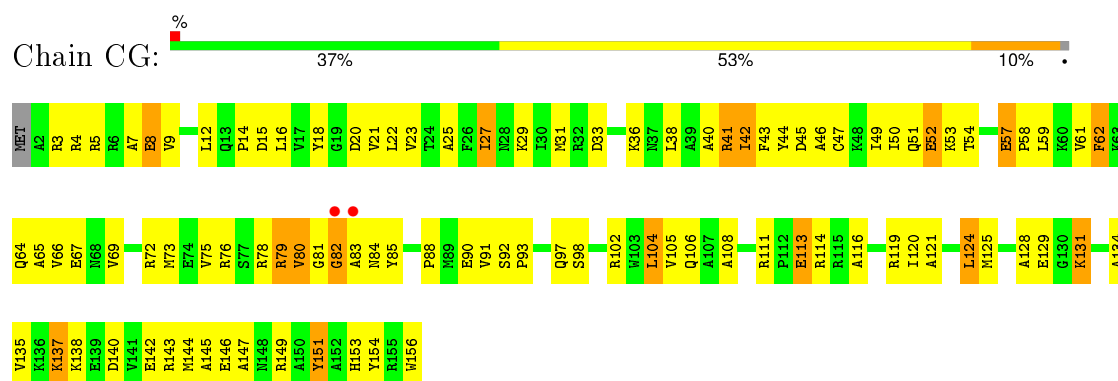
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



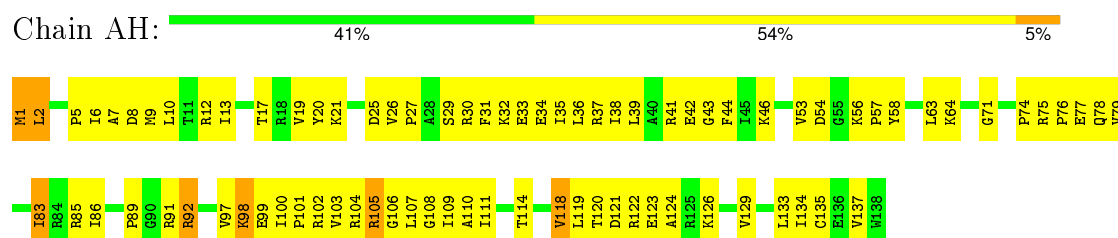
- Molecule 7: 30S RIBOSOMAL PROTEIN S7



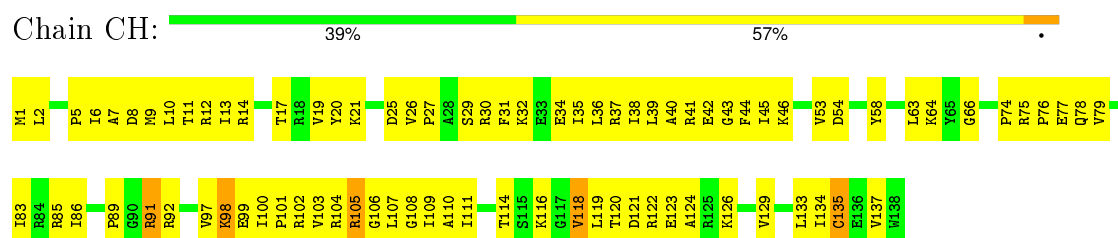
- Molecule 7: 30S RIBOSOMAL PROTEIN S7



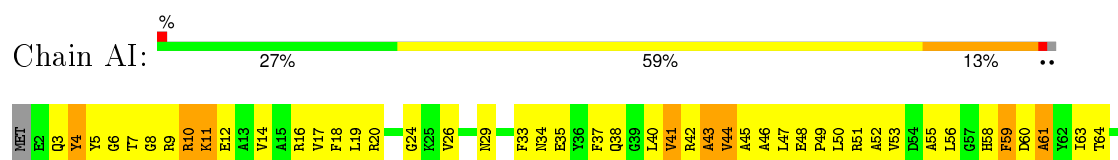
- Molecule 8: 30S RIBOSOMAL PROTEIN S8

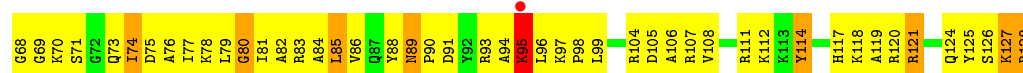


- Molecule 8: 30S RIBOSOMAL PROTEIN S8

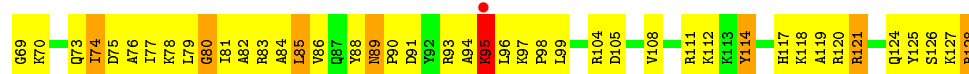
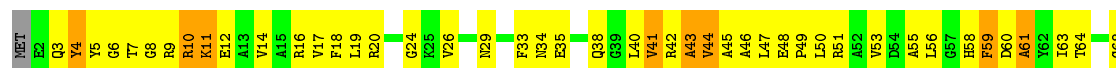


- Molecule 9: 30S RIBOSOMAL PROTEIN S9

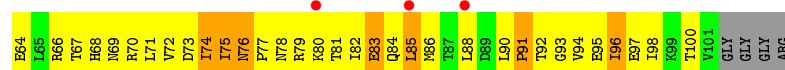
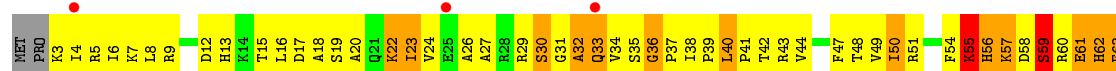
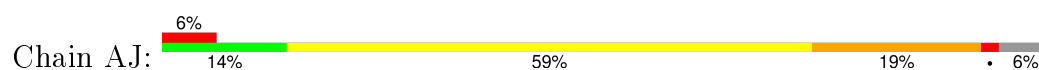




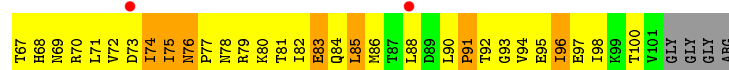
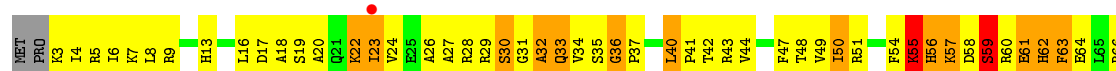
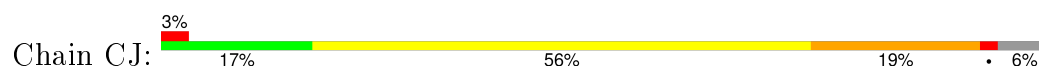
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

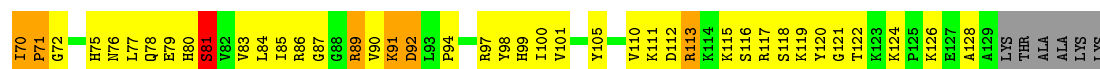
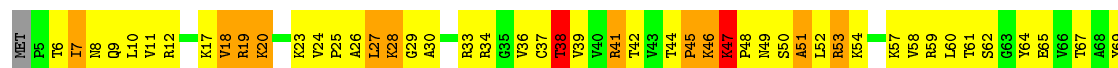


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

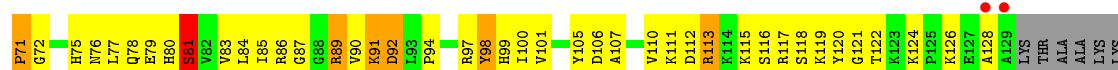
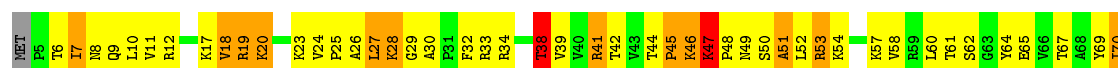




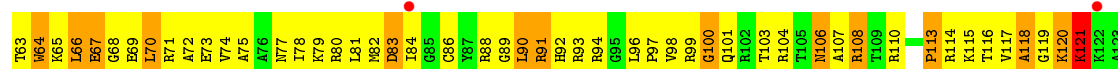
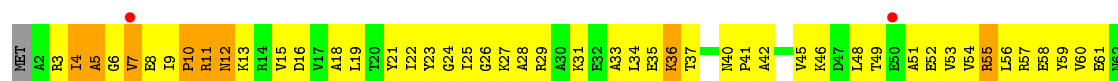
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



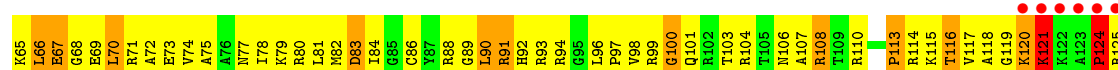
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



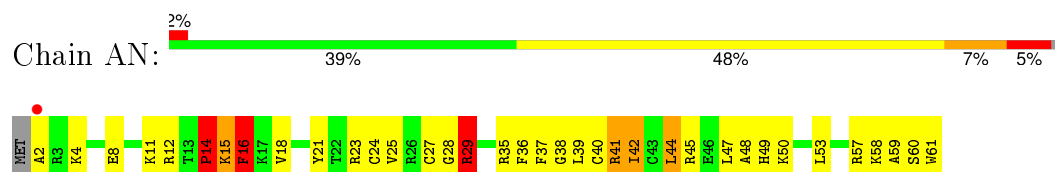
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



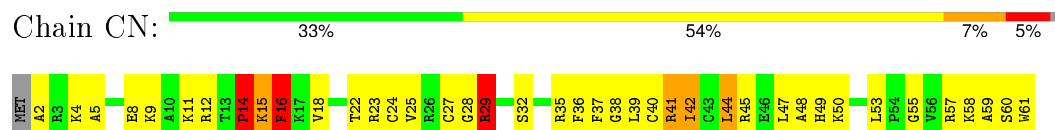
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



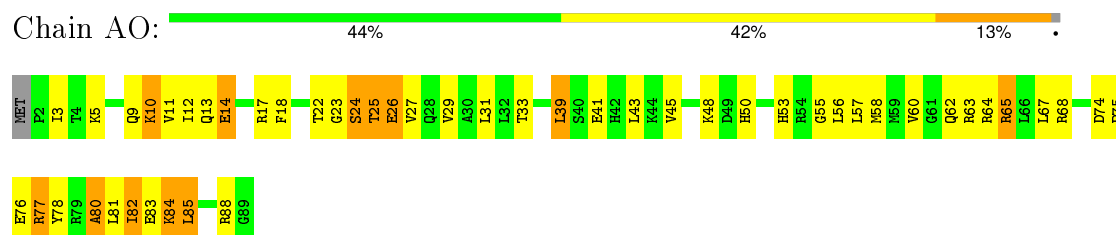
- Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



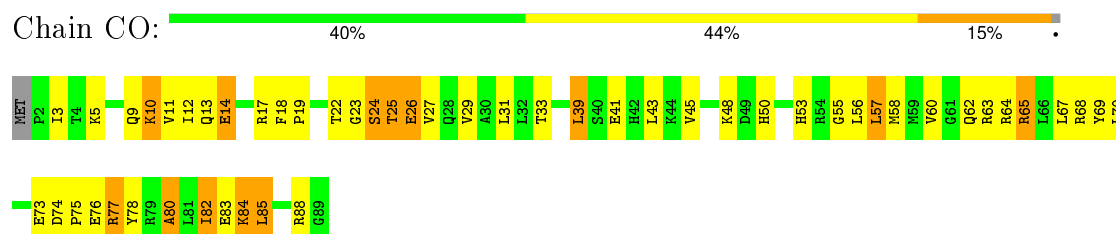
- Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



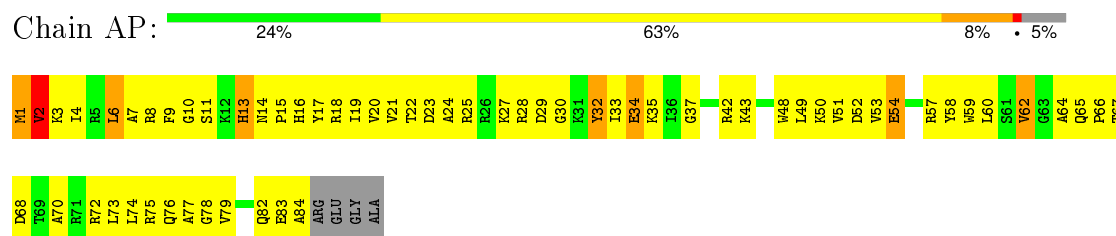
- Molecule 15: 30S RIBOSOMAL PROTEIN S15



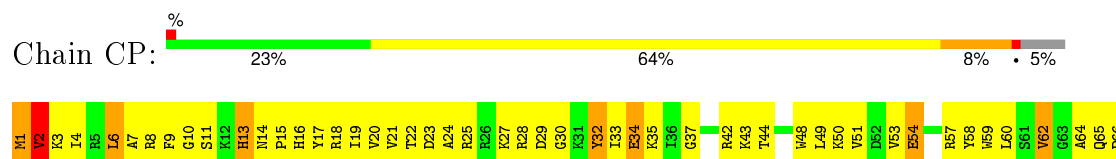
- Molecule 15: 30S RIBOSOMAL PROTEIN S15

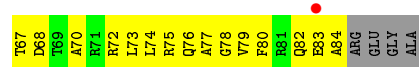


- Molecule 16: 30S RIBOSOMAL PROTEIN S16



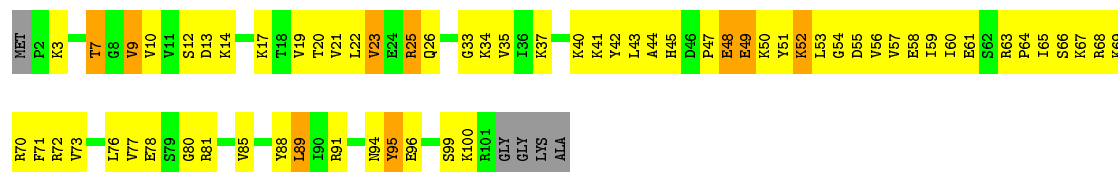
- Molecule 16: 30S RIBOSOMAL PROTEIN S16





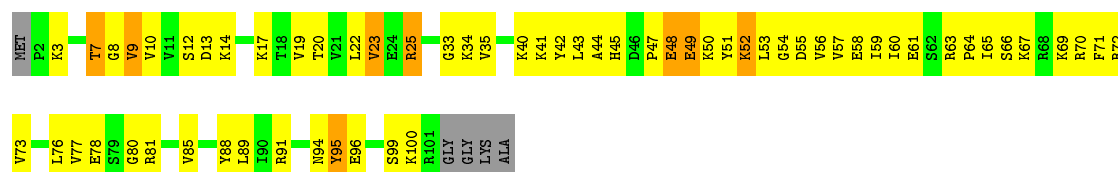
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ: 33% 53% 9% 5%



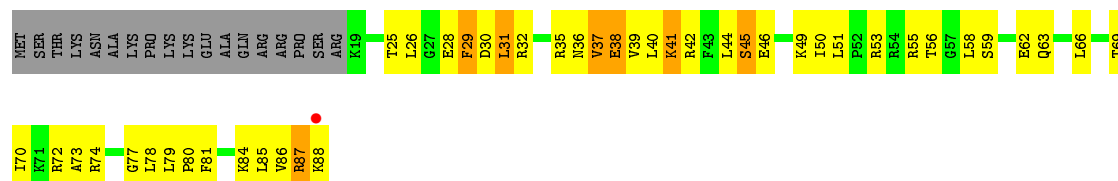
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CQ: 36% 51% 8% 5%



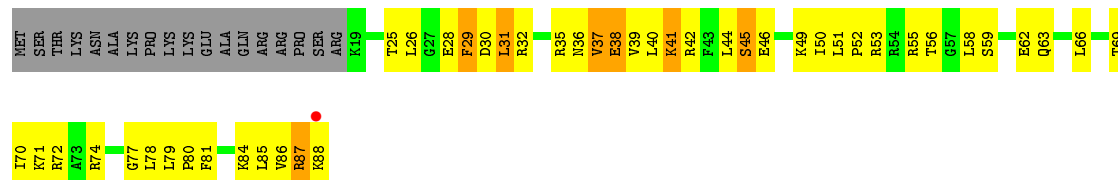
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR: 30% 42% 8% 20%



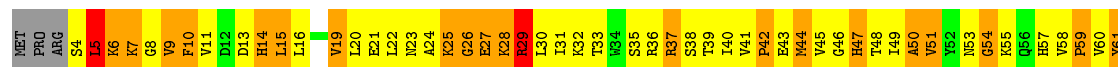
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

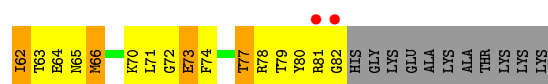
Chain CR: 28% 43% 8% 20%



• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS: 2% 12% 45% 26% 15%

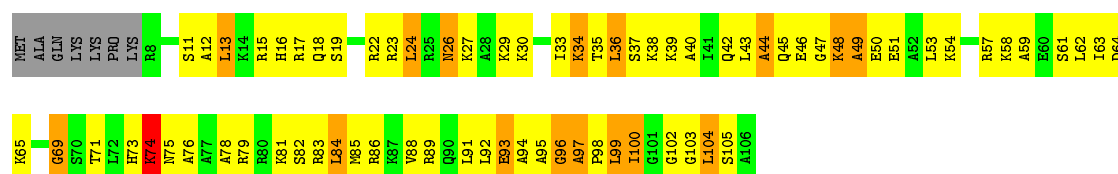




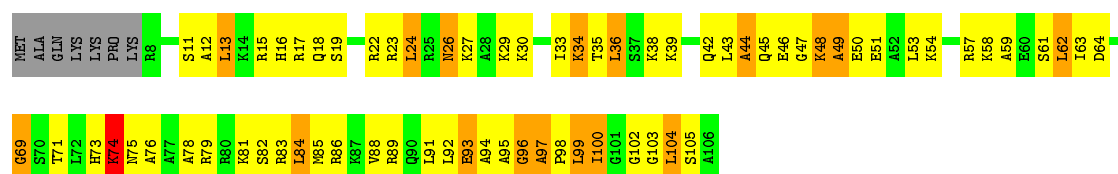
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



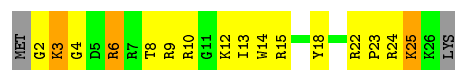
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



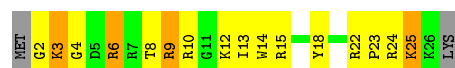
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



• Molecule 21: 30S RIBOSOMAL PROTEIN THX

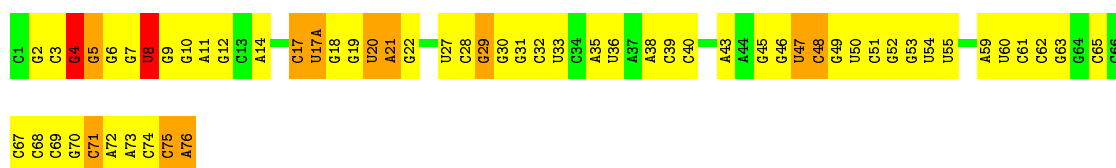


• Molecule 21: 30S RIBOSOMAL PROTEIN THX

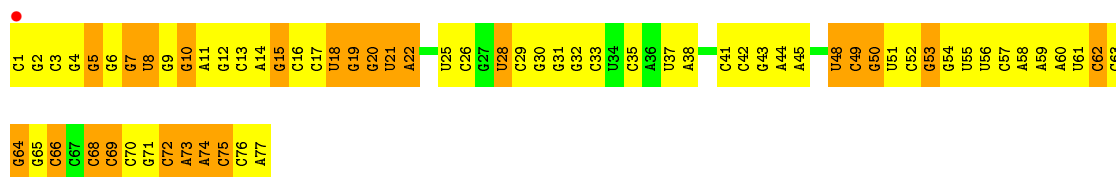
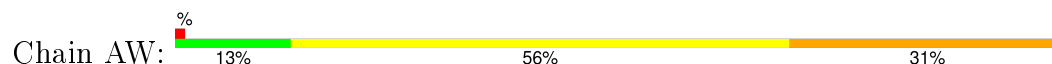


• Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)

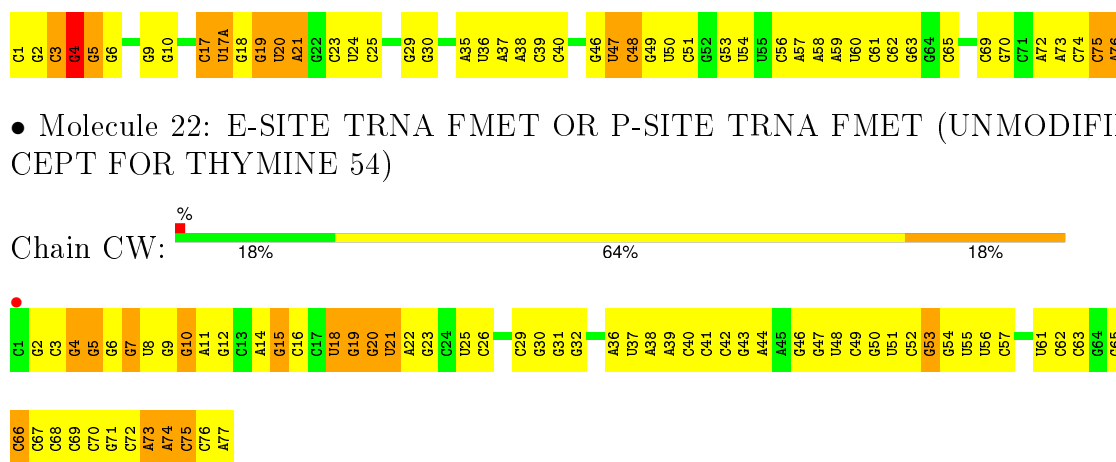




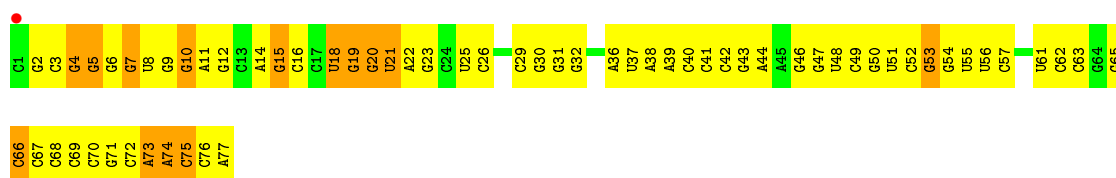
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)



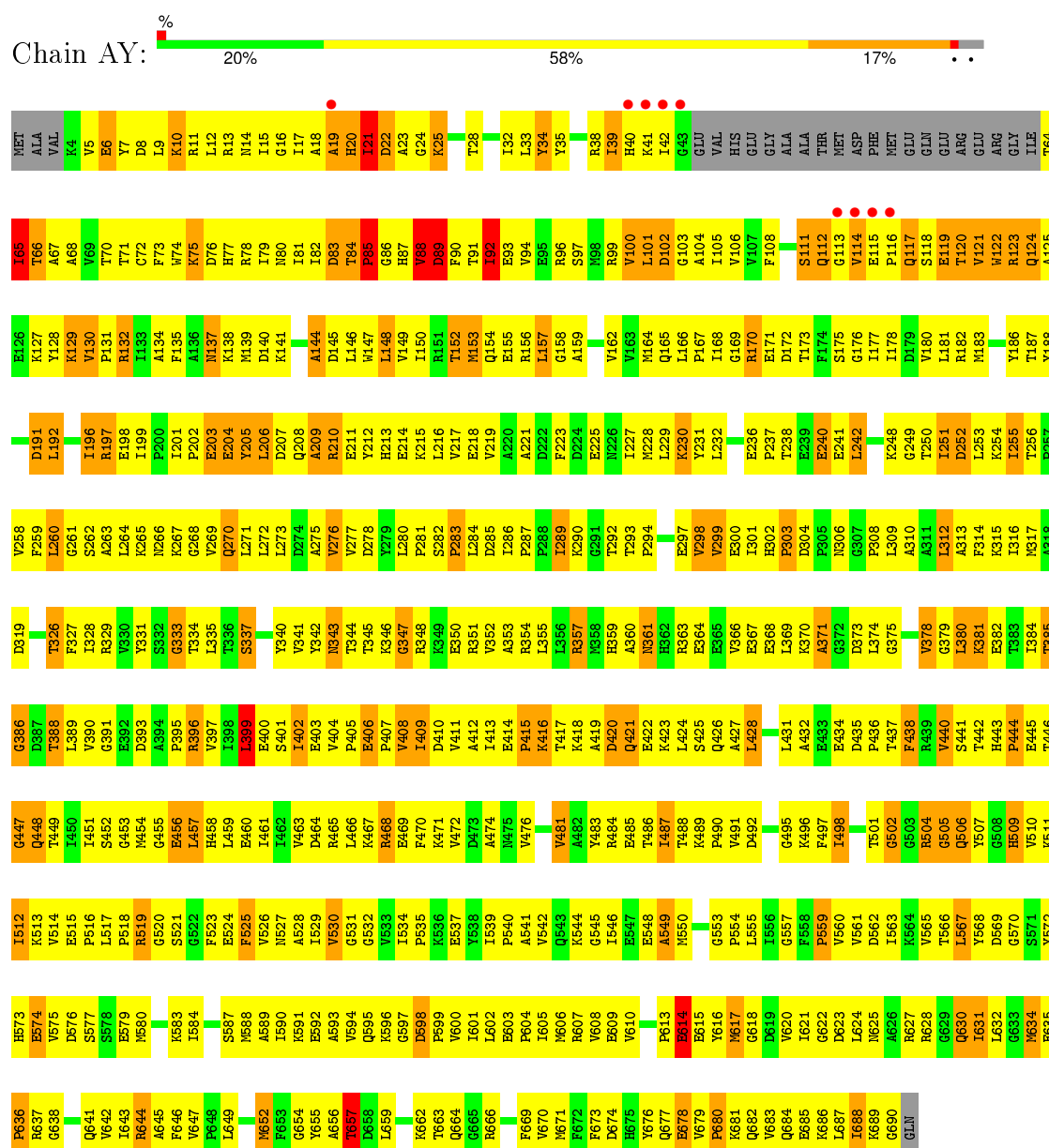
- Molecule 23: MRNA



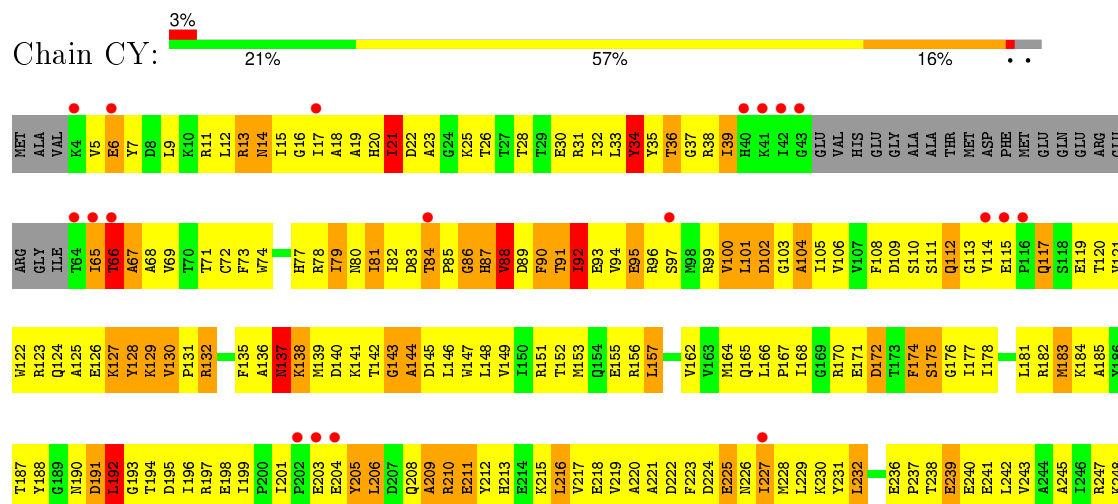
- Molecule 23: MRNA

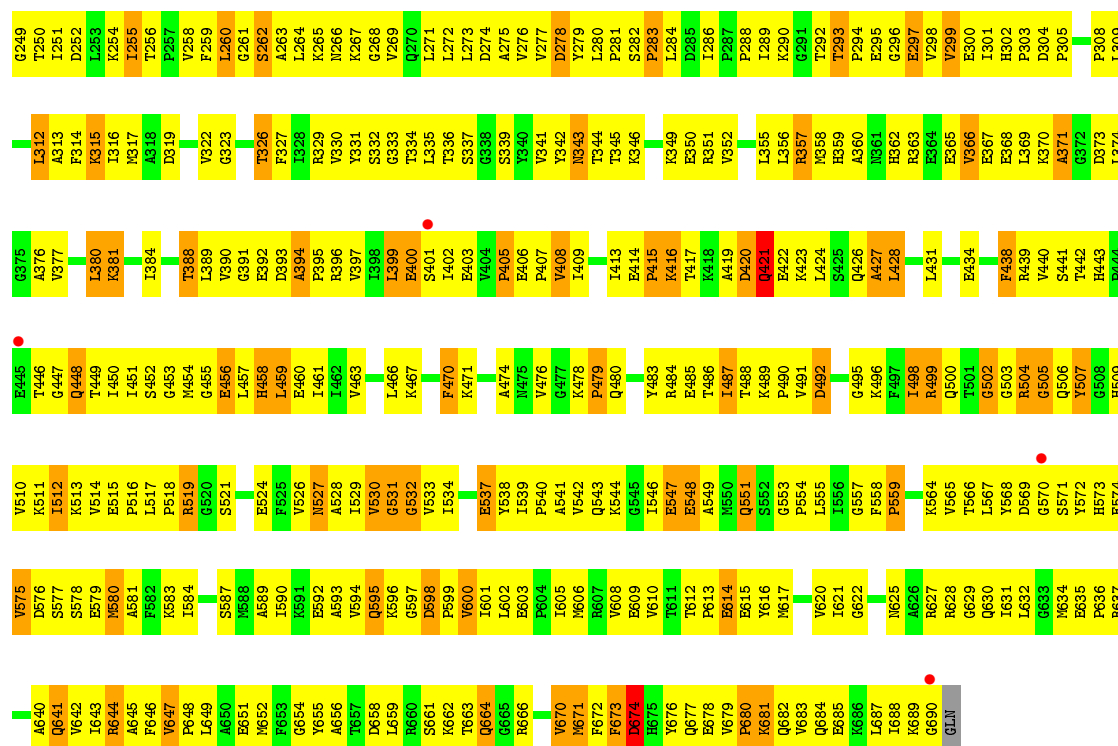


- Molecule 24: ELONGATION FACTOR G

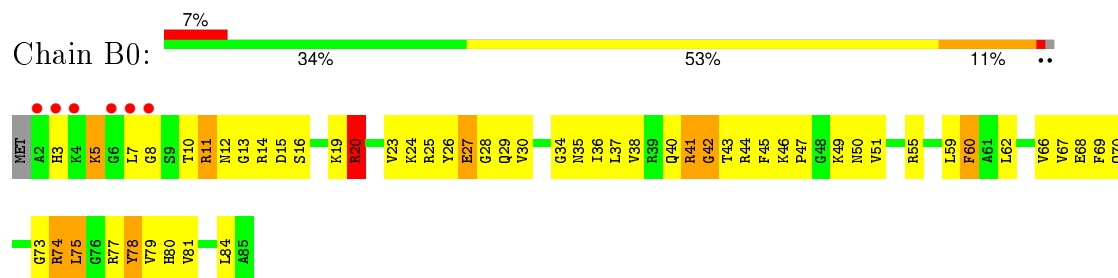


- Molecule 24: ELONGATION FACTOR G

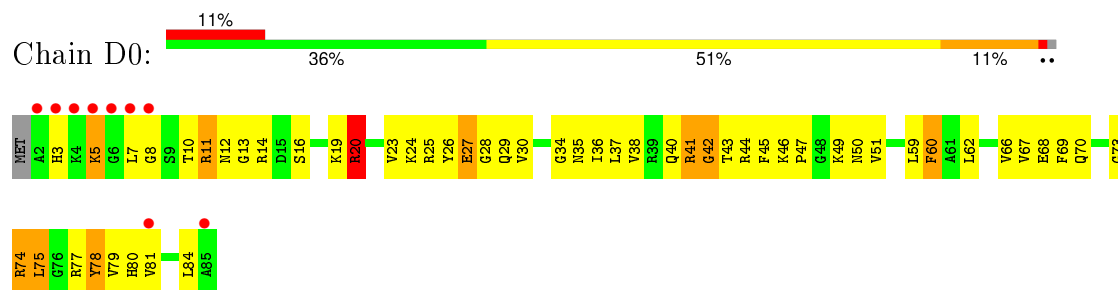




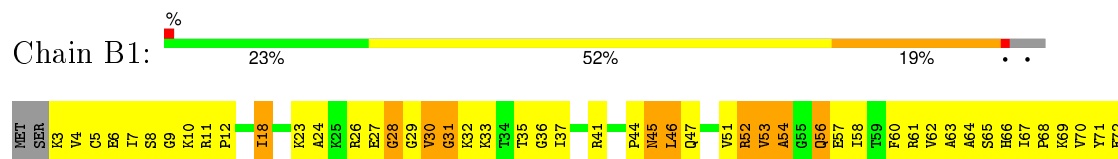
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

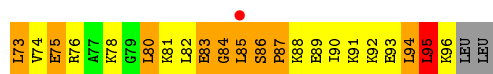


• Molecule 25: 50S RIBOSOMAL PROTEIN L27



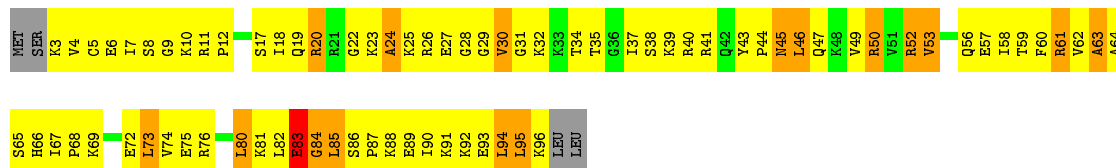
• Molecule 26: 50S RIBOSOMAL PROTEIN L28





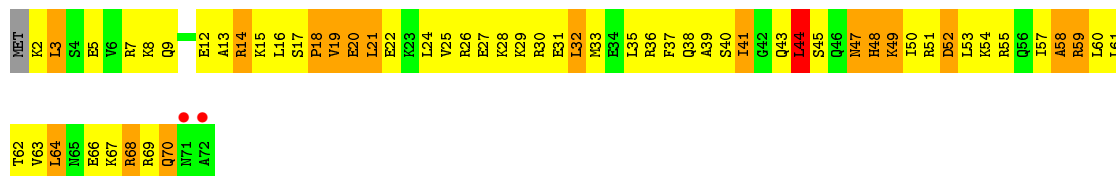
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain D1: 17% 61% 16% . .



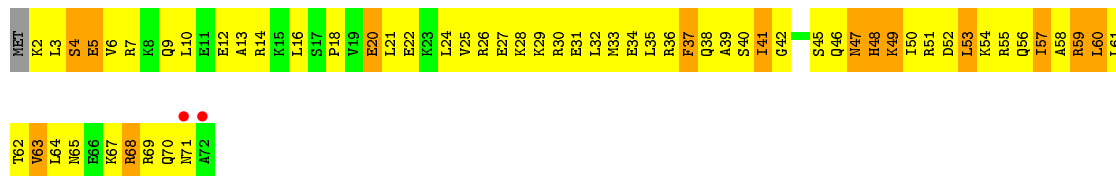
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain B2: 3% 17% 57% 24% . .



• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain D2: 3% 14% 65% 19% .



• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain B3: 2% 20% 67% 12% .



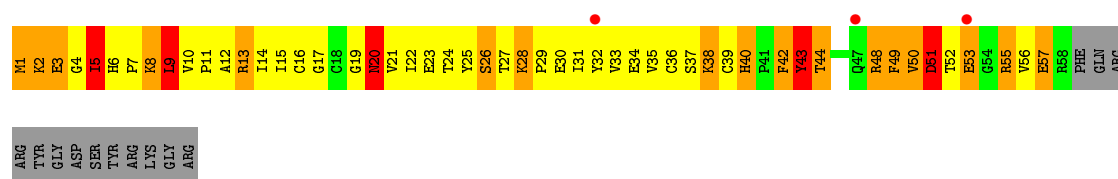
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain D3: 3% 27% 60% 12% .

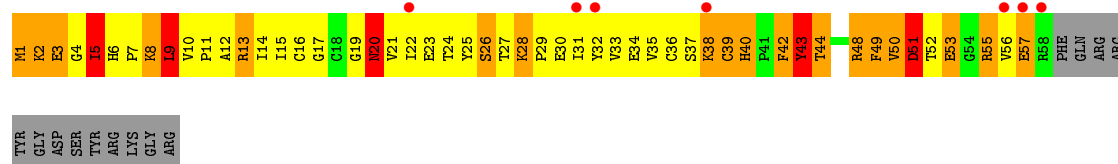


• Molecule 29: 50S RIBOSOMAL PROTEIN L31

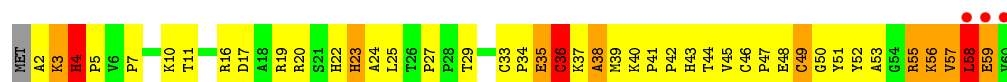
Chain B4: 4% 10% 41% 24% 7% 18%



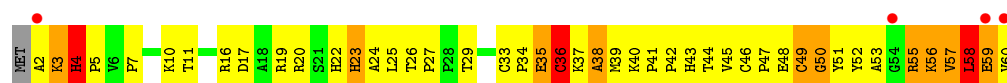
• Molecule 29: 50S RIBOSOMAL PROTEIN L31



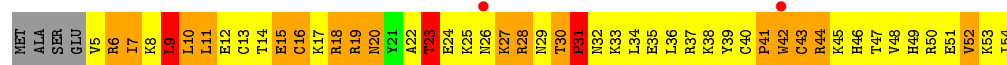
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



• Molecule 30: 50S RIBOSOMAL PROTEIN L32



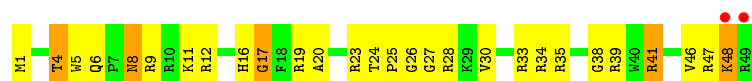
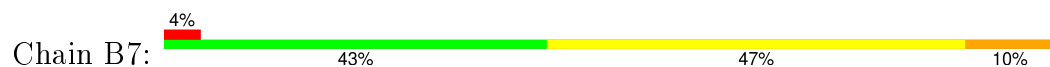
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 32: 50S RIBOSOMAL PROTEIN L34



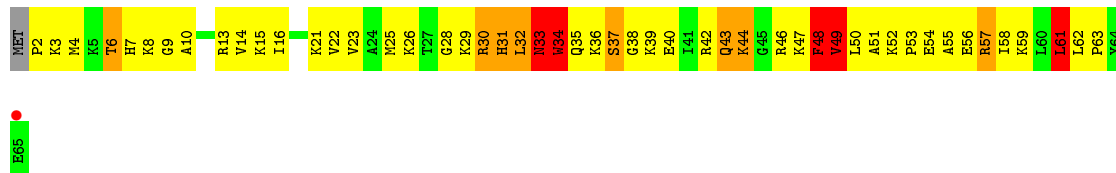
- Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain D7: 



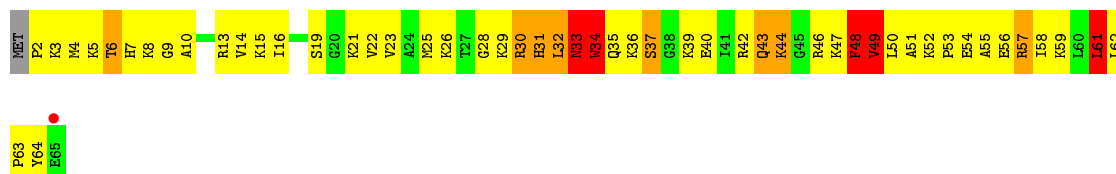
- Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain B8: 



- Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain D8: 



- Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain B9: 



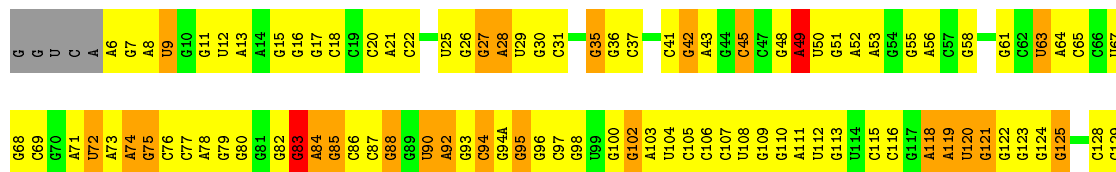
- Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain D9: 



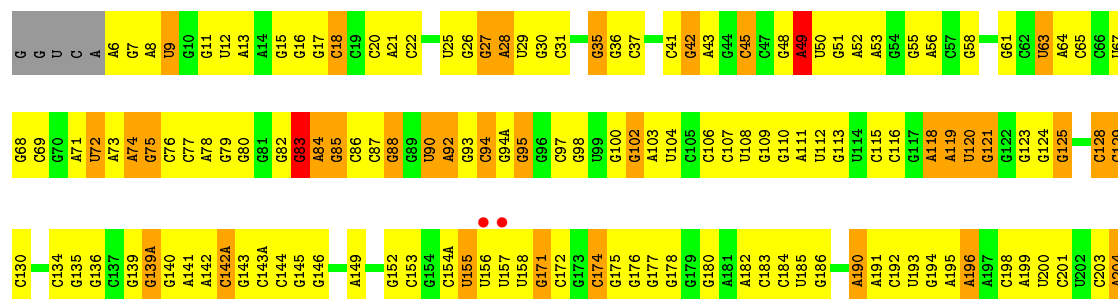
- Molecule 35: 23S RIBOSOMAL RNA

Chain BA: 



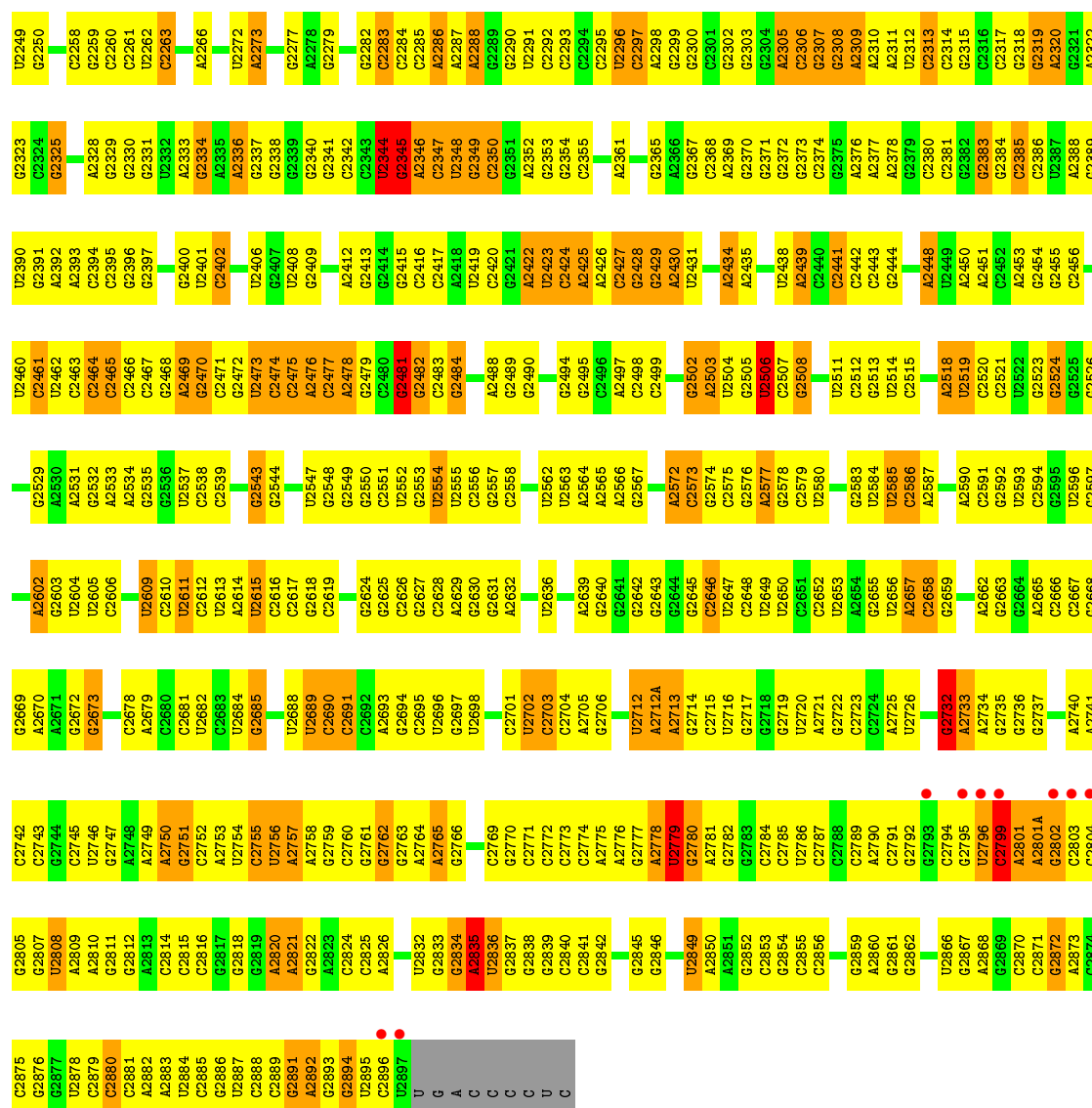
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U2113	C2043	G1973	G1907	G1828	U1766	G1601	A1535	G1465	A1395	U1326	G1256	G1192	G1131
A2114	G2046	C1974	C1908	A1829	C1767	U1602	C1536	G1466	U1396	C1327	C1257	G1193	A1132
G2116		C1983	G1909	G1830	U1768	A1603	G1538	C1467	U1397	U1328	G1258		U1133
A2117	C2050	G1984	U1911	G1832	G1770	A1607	G1539	A1472	G1398	U1329	G1259	C1196	G1135
U2118	A2051	G1985	U1912	U1833	G1771	A1608	U1540	G1473	G1400	C1330	G1260	G1197	G1136
G2119	G2052	A1986	U1913	U1834	G1772	A1609	G1541	C1474	G1401	A1331	C1261	U1198	
G2120	G2053	C1987	C1914	G1835	U1773	A1610	A1542	G1475	C1402	G1332	U1262		G1137
G2121	C2055	G1988	U1917	G1838	C1774	G1611	C1543	C1476	C1403	U1263	U1263	G1138	G1138
G2122	G2056	G1989	A1918	G1839	G1775	A1612	A1544	A1477	C1404	G1334	G1264	A1203	G1139
G2123	A2057	G1992	U1919	G1840	G1776	A1615	A1545	G1478	U1405	U1335	A1265	U1205	U1141
G2124	U2057	U1993	G1920	U1841	C1684	A1616	C1546	G1478	U1406	G1337	U1267	G1206	U1142
G2125			U1921	U1842	U1778	C1617	C1551	G1482	U1407	G1338	U1268	G1209	A1142A
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G2127	A2060	C1997	G1923	C1844	U1780	A1619	A1553	G1485	C1409	U1342	G1270	A1211	G1144
C2128	A2062	G1998	U1925	G1845	U1781	U1692	A1554	A1486	C1410	G1343	G1271	G1212	C1145
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G2131	C2065	C2000	U1926	A1847	G1784	C1694	C1556	G1488	U1415	U1273	U1273	G1214	G1147
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G2133	G2067	G2002	G1930	G1849	A1786	U1629	A1558	G1491	C1417	G1346	A1275	G1216	G1149
A2134	U2068	C2003	U1931	G1850	A1787	G1630	G1559	G1492	U1420	G1347	G1276	G1217	G1150
C2135	G2069	G2004	A1932	G1851	G1788	U1633	G1560	C1493	U1421	G1348	G1277	G1218	G1151
G2136			G1933	C1852	A1789	A1632	G1561	C1494	G1421	A1349	U1278	G1219	G1152
C2137	G2070		C1934	A1853	C1790	G1633	G1562	A1495			G1279	G1153	G1153
C2138	A2071	C2007	G1935	A1854	G1714	A1640	G1563	A1496	A1427	A1353		C1221	G1154
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G2141	U2074	G2010	U1938	C1857	G1718	G1636	C1566	C1498	G1430	G1356	A1287	G1223	G1157
C2142	U2075	U2011	A1938	G1858	U1720	A1637	C1567	C1499	U1431	U1357	U1288	G1224	C1158
C2143		G2012		U1859	G1721	G1638	C1568	G1500	U1432	G1358	U1289	G1225	U1159
			C1941	A1859	U1713	U1639	G1569		U1433	A1359	C1290	A1226	G1160
G2146	G2078	A2013	C1942	G1860	G1714	C1640	A1569	U1503	U1433	A1360	C1291	G1227	G1161
G2147	U2079	A2014	U1943	C1862	G1717	A1641	A1570	C1504	U1434	G1361	C1292	G1162	G1162
G2148	G2080	G2015	G1944	G1863	G1718	C1644	A1571	C1505	G1435	G1362	G1228	G1228	G1163
G2149	C2081	U2016	U1945	U1864	G1719	G1645	A1572	G1506	G1436	C1363	G1229	G1230	G1164
U2150	A2082	G2018	U1946	G1865	U1720	G1646	G1573		C1437	G1364	G1231	G1231	U1165
G2151		A2019	C1947	G1866	G1721	G1647	C1574	C1509	U1438	A1365	G1298	G1232	U1166
G2152	U2086	A2020	G1948	A1876	G1722	G1647	C1575	A1509A	A1439	A1366	U1300	G1233	U1167
G2153	G2087	C2021	G1949	A1877	U1739	C1648	U1576	A1509B	G1440	A1367	U1301	G1234	G1168
G2154	G2088	U2022	G1950	G1878	G1740	G1649	C1577	C1510	G1441	G1368	A1302	U1234	G1169
G2155	U2089	G2023	U1951		A1741	G1650	A1578	C1511	G1442		G1236	G1236	G1170
G2156	G2090	A2024	A1952	C1882	G1742	G1651	A1579	U1512		G1374	C1305	A1237	G1171
G2157	U2091	C2025	A1953	G1883	G1743			U1513	A1445	C1375	C1306	G1238	G1173
A2158	U2092	G2026	G1954	A1884	C1744	A1654	A1582	U1514	C1445A	C1376	A1307	G1239	A1174
G2159	G2093	G2027	U1955	A1885		A1655	A1583	G1515	C1446	G1377	A1308	U1240	U1175
G2160		U2028	U1956	C1886	G1747A	C1656	C1584	C1516	G1447	A1378	G1309	A1241	G1176
C2161	C2097	G2029	C1957	C1887	G1748	C1657	A1586	G1517	G1448	A1379	G1310	A1242	A1177
G2162	U2098	A2030	G1958	G1888	A1749	C1658	A1587			G1380	G1311	G1243	
C2163	U2099	A2031	G1959	G1889	G1750	U1659	C1588	U1523	C1450A	G1381		G1244	G1180
C2164	G2100	G2032	A1960	G1890	C1751	C1660	C1589	G1524	C1451	G1382	C1314	G1245	C1181
		A2033	G1891	U1817	G1752	G1661	U1590	G1525	A1452	C1383	C1315	A1246	A1182
			C1892	U1818	G1753	C1662	G1591	G1526	U1453	A1384	U1316	A1247	G1183
				U1819	C1754	C1663		G1527	G1455	G1385	A1317	G1248	G1184
				U1820		A1664	G1594	A1528		G1386	G1318	U1249	C1185
				A1821	U1759	A1665	G1595	A1528A	G1459	G1387	G1319	C1251	G1186
				G1822		G1666	A1596	G1529	A1460	G1388		G1251	G1187
				G1823	U1762	G1667	A1597	C1530	G1461	G1389	A1322	G1252	U1188
				G1824	G1763	A1668	C1598	G1531	C1462	U1390	U1323	A1253	A1189
				A1825	G1764	A1669	C1599		C1463	U1391	G1324	A1254	G1190
				G1826	C1765	C1670	C1600	U1534			G1325	U1255	G1191



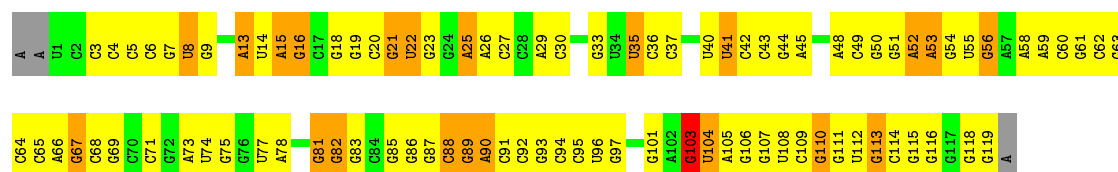


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C2178	G2115	U2041	G1968	G1823	G1762	A1668	C1598	C1531	C1463	U1392	C1327	A1262	G1203
G2182	G2116	A2042	A1969	G1824	A1763	A1669	C1599	U1534	C1464	A1395	G1328	G1263	U1204
C2183	A2117	C2043	G1970	A1825	G1763	C1660	C1600	A1536	G1465	U1396	U1329	G1264	U1205
G2184	U2118	G2044	G1971	G1903	G1764	U1671	G1601	A1536	G1466	C1397	C1330	G1265	G1206
C2185	A2119	G2045	A1972	C1827	G1765	U1602	U1602	A1536	G1467	C1398	A1331	G1266	
G2186	C2120	C2046	G1973	G1828	U1766	G1674	A1603	G1537		C1399	G1332	U1267	
C2187	U2121	C2050	C1974	A1829	C1675	C1675	A1603	G1538	A1472	G1400	G1333	A1268	G1209
G2188	U2122	A2051	G1907	C1830	U1768	A1676	C1607	G1539	G1473	G1401	G1334	A1269	A1210
U2189	G2123	C2052	C1983	G1831	G1769	A1677	A1608	U1540	C1402	C1402	U1335	G1270	U1211
C2190	G2124	G2053	C1984	C1832	G1770	G1678	A1609	G1541	C1403	C1403	U1335	G1271	G1212
G2191	A2125	A2054	G1985	C1833	C1771	U1679	A1610	A1542	G1475	C1404	G1337	A1272	A1213
C2192	C2126	C2055	A1986	U1834	G1772	U1680	C1611	C1543	A1476	U1405		U1273	A1214
G2193	U2127	G2056		G1835	A1773	G1681		A1544	G1478	U1406	U1341	A1274	G1215
C2194	C2128	A2057	G1989	C1836	C1774	G1682	A1614	A1545		C1407	A1342	A1275	G1216
G2195	U2129	A2058	G1992	C1837	U1775	G1683	C1615	C1546	G1482	C1408	G1343	A1276	G1217
C2196	U2130	A2059	U1993	G1838	G1776	C1684	A1616		G1484	G1408	G1344	G1277	G1218
G2197	G2131	G2061	C1994	U1839	U1777	U1688	C1617	G1551	G1485	G1410	C1345	A1278	G1219
A2198	G2132	A2062	U1994	G1840	U1778	A1689	A1618	G1552	A1486	C1411	G1346	G1279	A1220
C2199	A2135	A2063	A1918	U1841	U1779	A1689		G1553	G1487	A1412	G1347		G1221
G2200	U2136	C2065	A1919	U1842	U1780		G1623	A1554	G1488	U1415	G1348	G1285	C1221A
C2201	C2137	C2066	G1921	C1843	C1781	U1692	G1624	G1555	U1489	A1416	A1349	A1286	C1222
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U2203	C2139	U2068	C1999	G1845	A1783	C1694		C1557	G1491	U1288	G1351	U1288	C1224
C2205	C2140	G2069	G2000	G1846	A1784		G1628	A1558	G1492	C1289	U1352	G1225	G1225
G2206	G2141	G2070	A2001	A1847	A1785	G1697	U1629	G1559	G1493	C1290	A1353	A1226	A1226
A2208	C2142		G2004	A1848	A1786	A1698	G1630	G1560	A1494	C1291	A1354	G1227	G1227
U2218	C2143	U2074	C2008	G1849	A1787	A1699		A1561	A1495	U1292	G1355	G1228	G1228
C2219	U2218	U2075	C2009	U1850	C1788	A1700		A1562	A1496	C1293	U1356	G1229	G1229
G2220	G2146	U2076	G2010	G1851	A1789	G1708	G1633	G1564	G1498	U1294	U1357		C1230
C2221	C2147	A2077	G2011	C1852	C1790	U1709	G1634	C1565	C1499	C1297	G1358	G1231	G1231
G2222	U2148	C2078	U2011	A1854		C1710	G1635	A1566	G1500	C1298	A1360	G1232	G1232
C2223	U2150	U2079	G2012	G1855	U1794	C1711	A1637	G1567	C1432	G1299	G1361	U1234	U1234
G2224	G2151	C2081	A2013	G1856	C1795	C1712	G1638	G1568	C1502	U1300	C1362	G1235	G1235
A2225	C2152	A2082	A2014	G1857	U1796	U1713	U1639	A1569	C1503	A1301	A1434	A1301	G1236
C2226	G2153		A2015	G1858		G1714	G1640	A1570	C1504	A1302	G1364	A1237	A1237
G2227	G2154	U2086	U2016	A1859	C1793	G1717	A1641	A1571	C1505	G1303	A1365	G1238	G1238
G2228	G2155	G2087	U2017		C1800	G1718	C1644	A1572	C1506	G1304	A1366	G1239	G1239
C2229	G2156	G2088	G2018	G1862	G1801	G1719	G1645	G1573	C1509	C1305	A1367	U1240	U1240
G2230	G2157	U2089	A2019	G1863	A1802	U1720	G1646	G1574	A1509A	A1438	G1368	A1241	A1241
C2231	A2158	G2090	C2021	U1864	A1803	G1721	C1647	C1575	C1509B	G1440	G1369	A1307	A1242
U2232	G2159	U2091	U2022	G1865	C1804	A1722	G1647	C1577	G1510	G1441		A1308	G1243
G2233	G2160		G2023	C1866	U1805	U1739	C1648	C1577	C1511	G1442		G1309	G1244
C2234	C2161	C2097	G1948	A1877	C1806	G1740	G1649	U1578	G1512	A1445	C1374	G1340	G1245
G2235	G2162	U2098	G1949	G1878	U1807	A1741	G1650	A1579	C1513	A1446	G1377	U1312	A1246
C2236	C2163	U2099	G1950	C1879	U1808	G1742	A1654	C1582	C1445A	C1446	A1378	U1313	A1247
G2237	C2164	G2100	U1951	G1883	A1810	C1743	C1655	C1584	G1447	G1448	A1379	G1314	U1249
C2238	U2167	C2103	A1952	A1884	G1811	G1747A	C1657	A1586	G1516		G1380	C1315	G1250
G2239	G2168	G2104	U1955	A1885	A1812	G1748	C1658	C1587	G1517	C1450A	G1381	U1316	C1251
A2240	A2169	C2105	U1956	A1886	G1813	G1749	U1659	A1587	U1523	C1451	G1382	A1317	G1252
G2241	A2170	G2106	C1957	C1887	A1814	U1750	G1660	C1588	G1524	A1452	A1383	C1318	A1253
C2242	A2171	C2107	U2034	G1888	G1815	C1751	G1661	C1589	G1524	U1453	A1384	G1319	A1254
U2243	A2172		A1960	A1889	G1816	C1752	C1662	G1591	G1525	U1453	G1385	G1250	U1255
U2244	U2172		C2035	A1890	G1817	G1753	C1663	G1591	G1526	C1455	C1386	A1321	G1256
U2245	A2173	G2110	C2036	G1891	U1818	G1753	C1663	G1594	G1527		C1387	A1322	G1257
G2246	C2174	G2111	G2037	G1891	A1819	A1755	A1664	G1594	A1528	G1459	G1388	U1323	G1258
A2247	G2175	G2112	C2038	C1892	U1820		A1665	G1595	A1528A		G1389	G1324	G1259
C2248	A2176	U2113	C2039		A1821		G1666	A1596	G1529	G1461	U1390	G1325	G1260



• Molecule 36: 5S RIBOSOMAL RNA

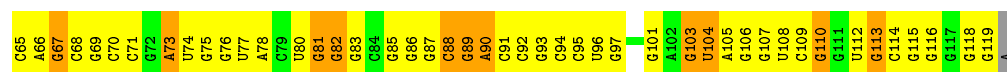
Chain BB: 22% 57% 17%



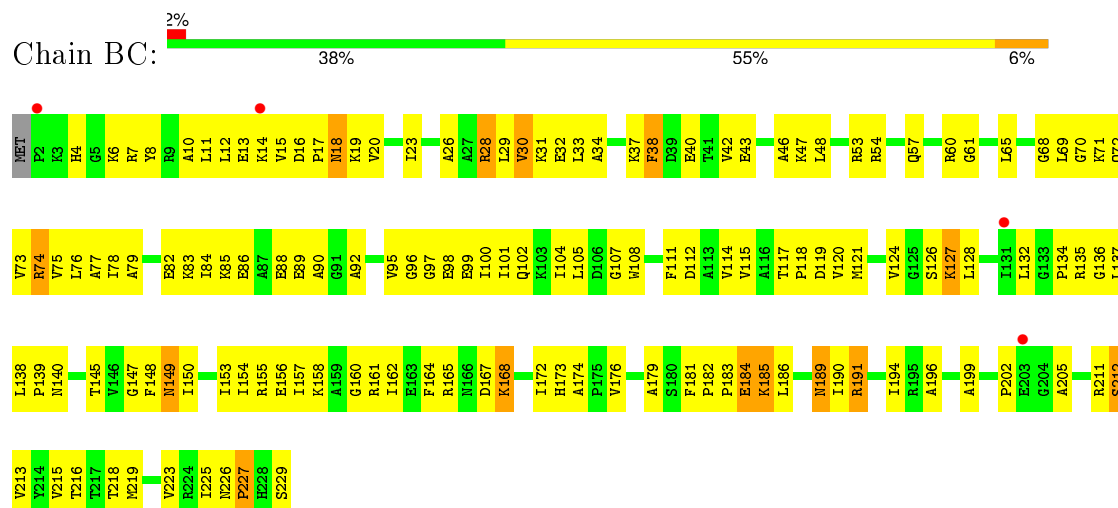
• Molecule 36: 5S RIBOSOMAL RNA

Chain DB: 20% 57% 20%

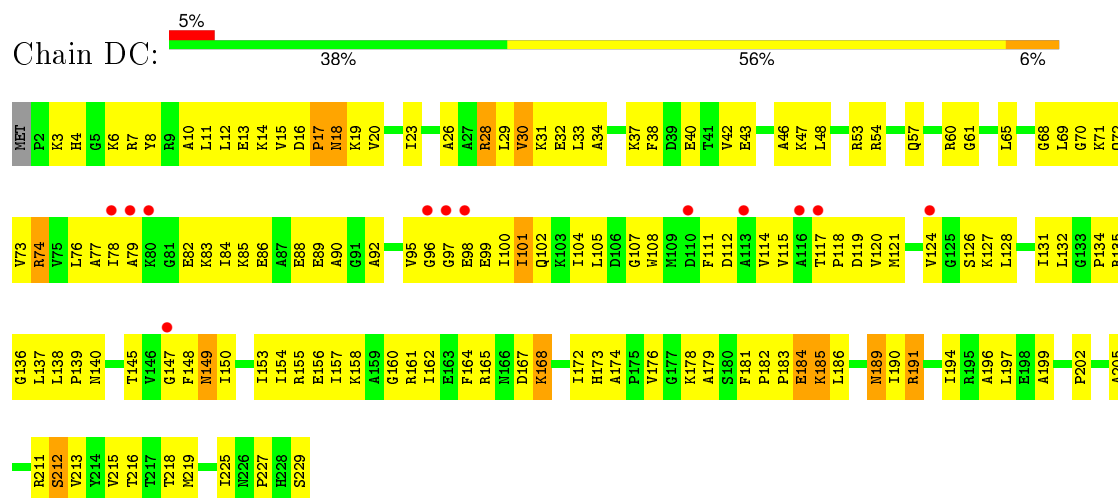




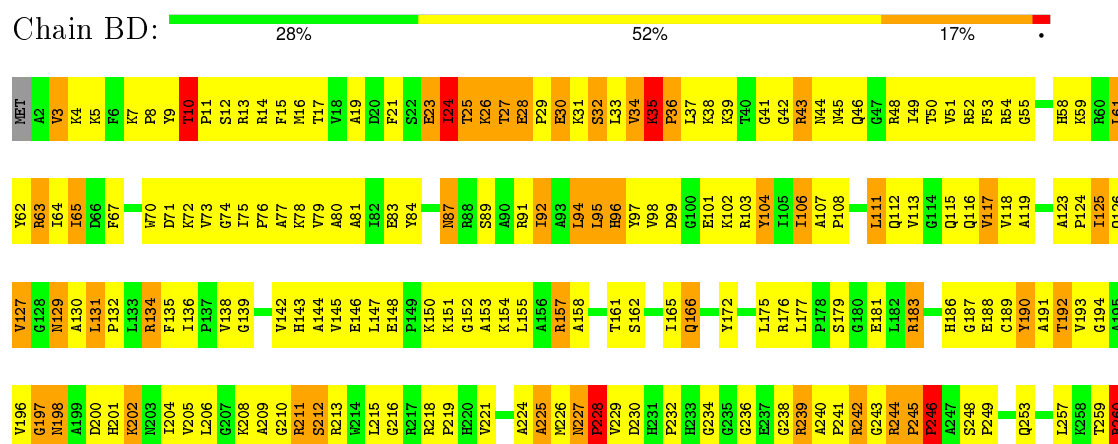
• Molecule 37: 50S RIBOSOMAL PROTEIN L1



• Molecule 37: 50S RIBOSOMAL PROTEIN L1



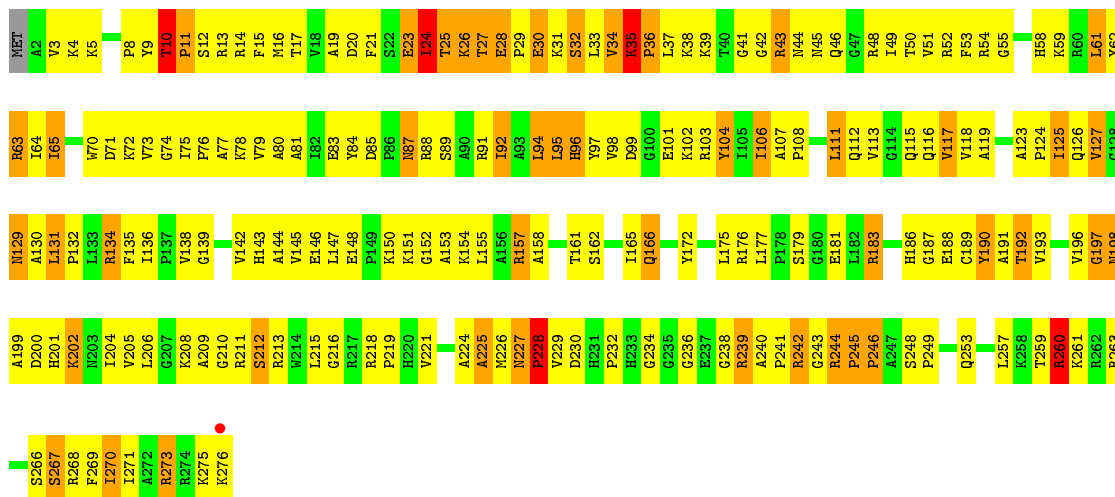
• Molecule 38: 50S RIBOSOMAL PROTEIN L2





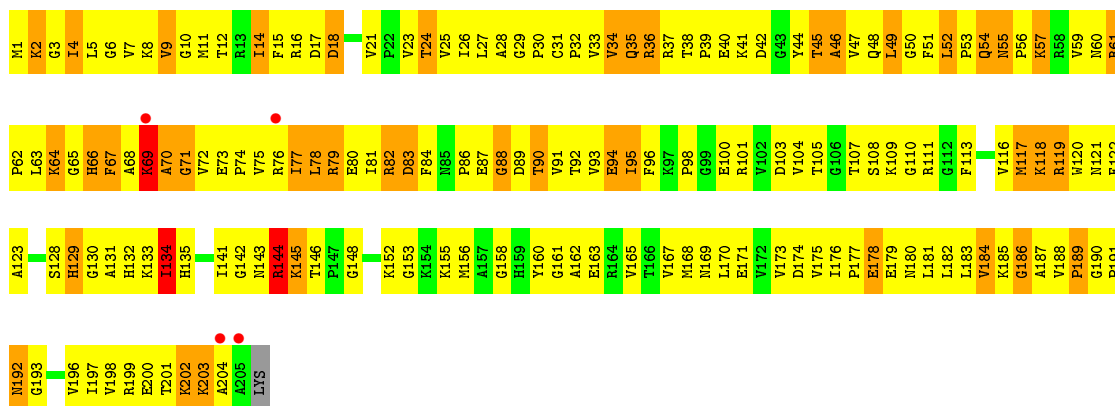
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain DD: 27% 54% 17%



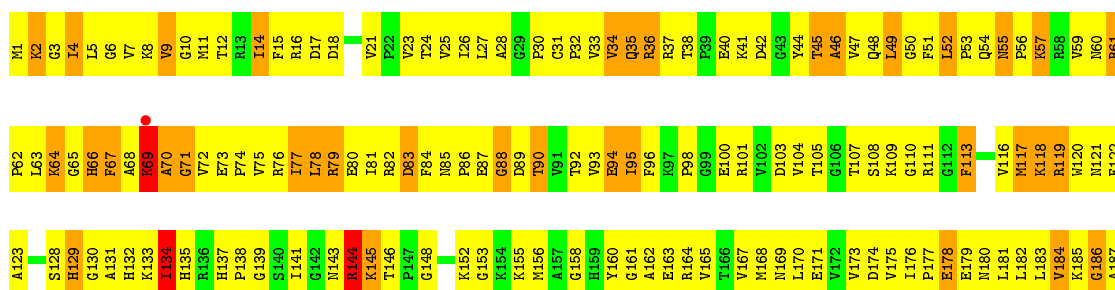
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

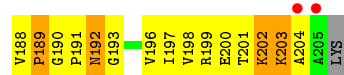
Chain BE: 17% 60% 21%



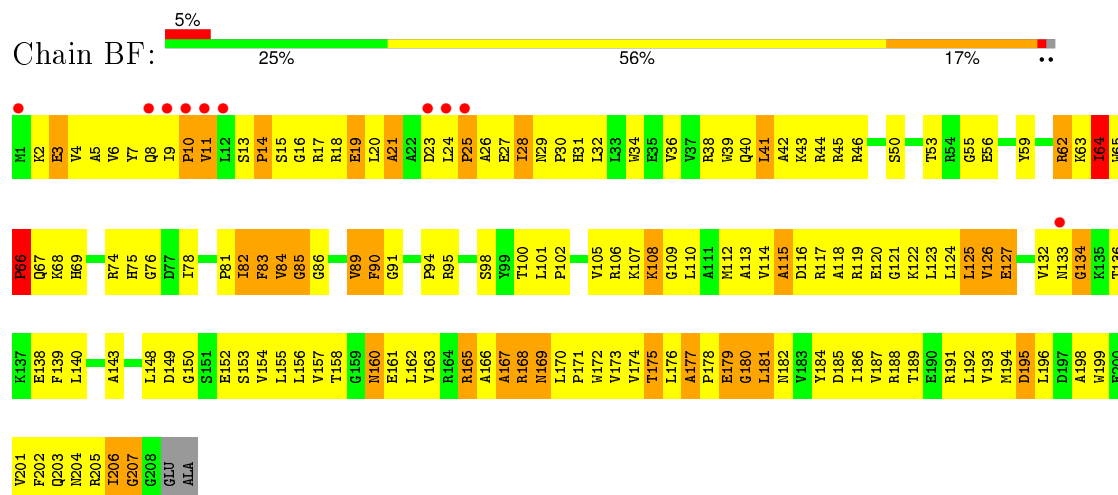
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain DE: 17% 62% 19%

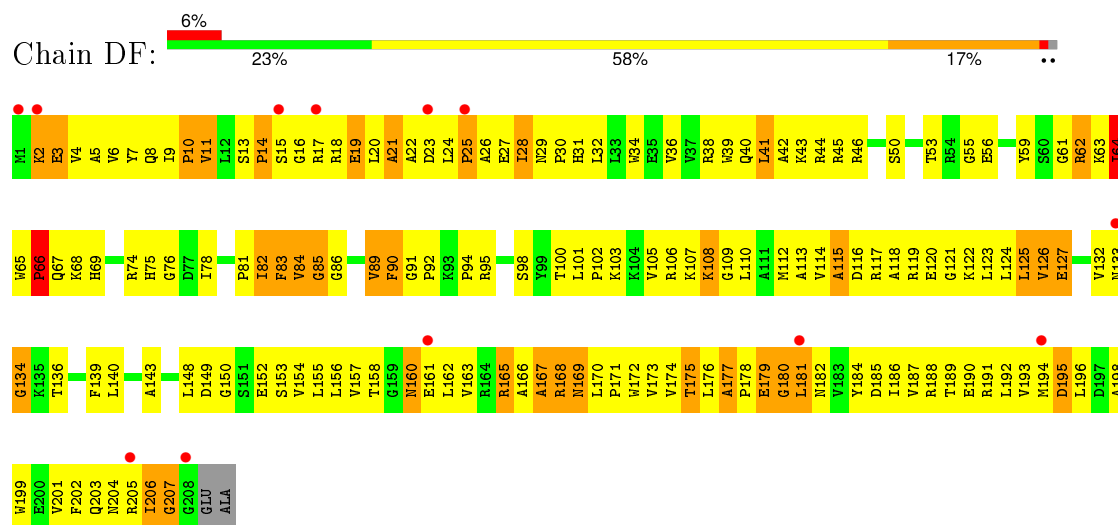




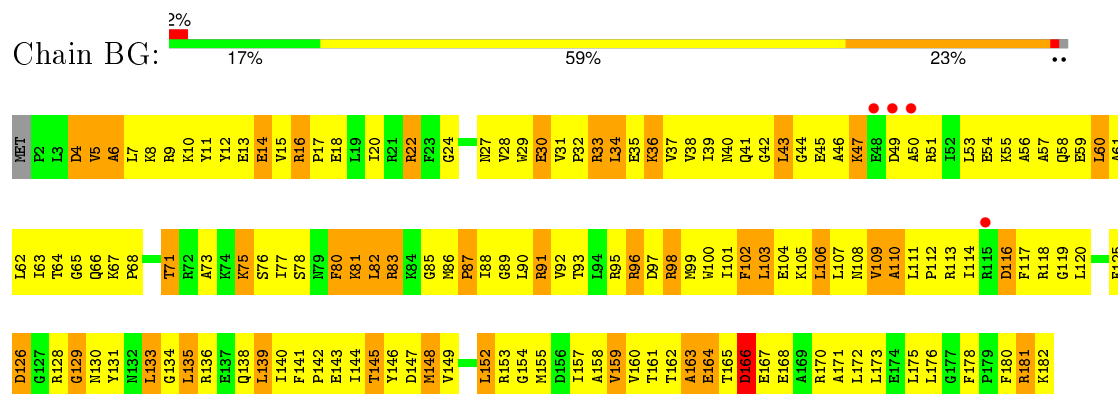
• Molecule 40: 50S RIBOSOMAL PROTEIN L4



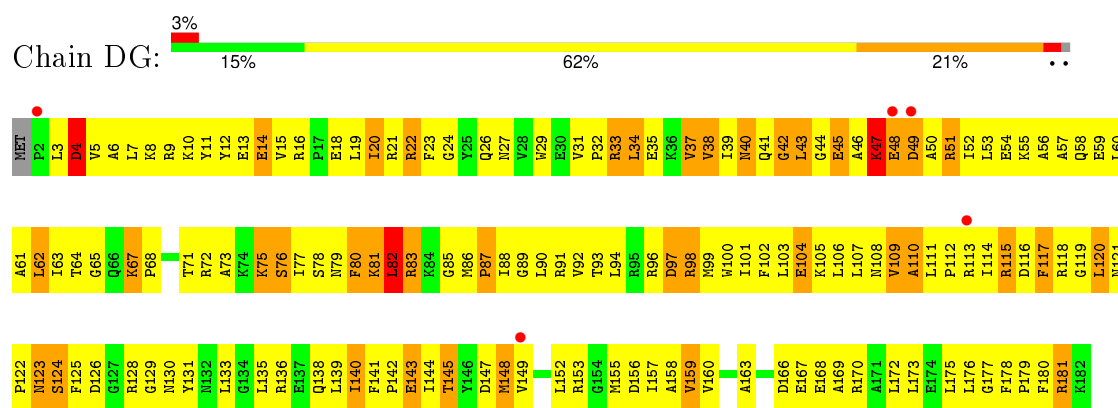
• Molecule 40: 50S RIBOSOMAL PROTEIN L4



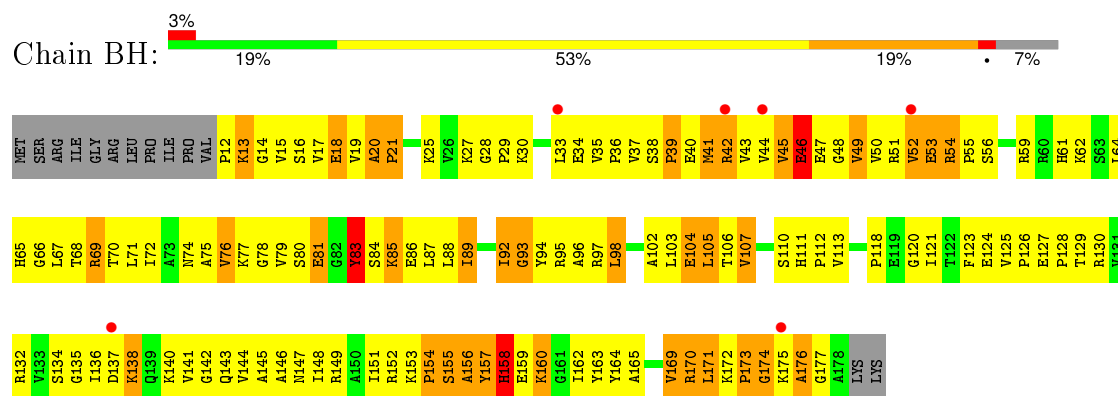
• Molecule 41: 50S RIBOSOMAL PROTEIN L5



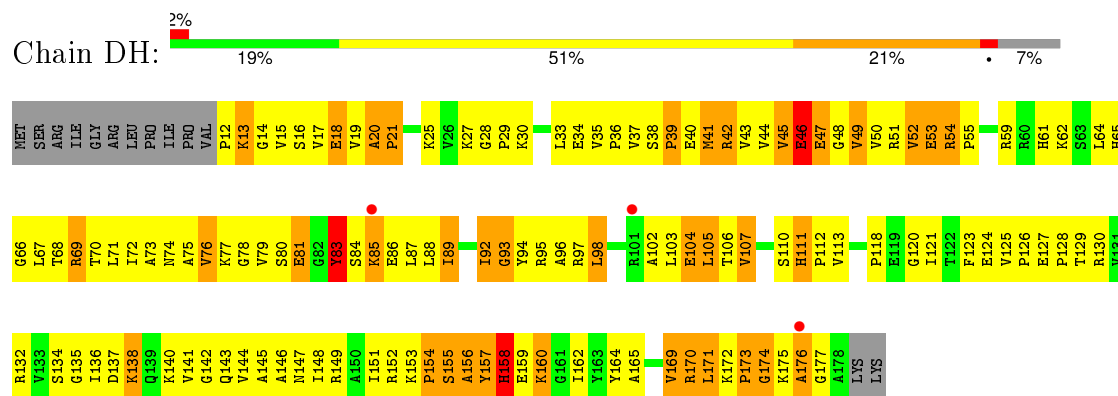
• Molecule 41: 50S RIBOSOMAL PROTEIN L5



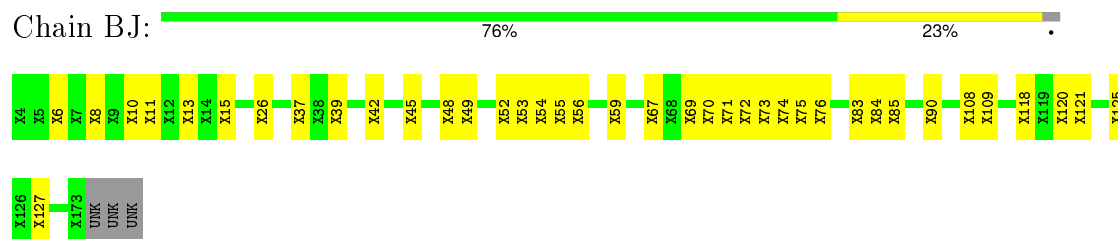
• Molecule 42: 50S RIBOSOMAL PROTEIN L6



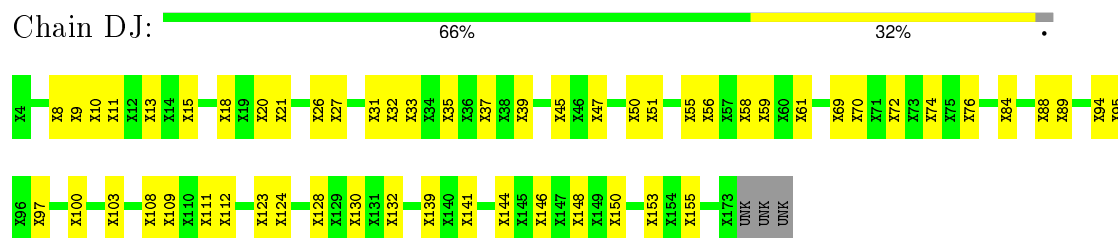
• Molecule 42: 50S RIBOSOMAL PROTEIN L6



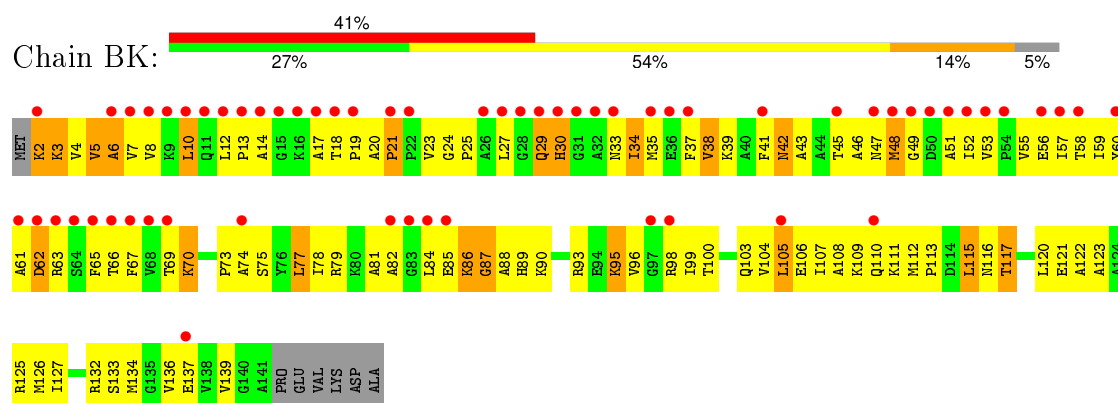
• Molecule 43: 50S RIBOSOMAL PROTEIN L10



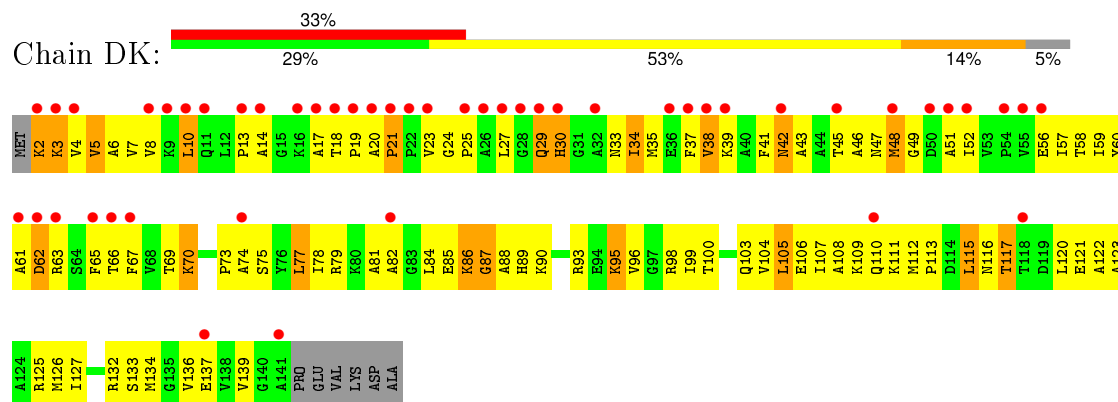
• Molecule 43: 50S RIBOSOMAL PROTEIN L10



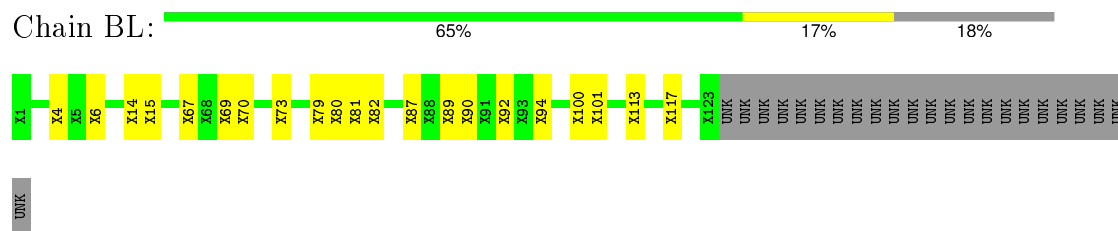
- Molecule 44: 50S RIBOSOMAL PROTEIN L11



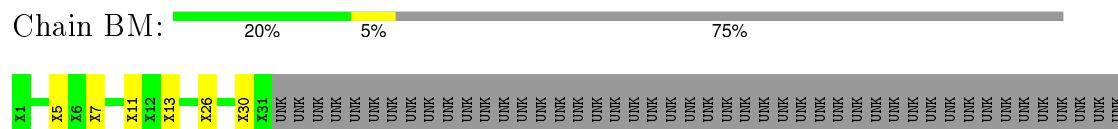
- Molecule 44: 50S RIBOSOMAL PROTEIN L11



- Molecule 45: 50S RIBOSOMAL PROTEIN L12



● Molecule 45: 50S RIBOSOMAL PROTEIN L12



[illegible]

• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Bl: 25% 75%

[illegible]

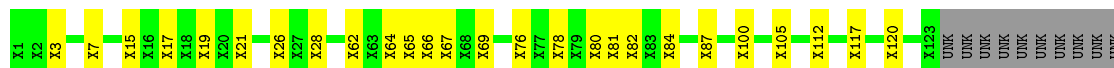
● Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Bm: 24% 76%

[illegible]

• Molecule 45: 50S RIBOSOMAL PROTEIN L12

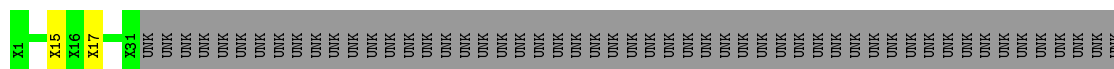
Chain DL:  61% 21% 18%



UNK UNK UNK UNK UNK UNK UNK UNK UNK UNK UNK UNK UNK

• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain DM: 23% 75%

[illegible]

- Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain D1:  25% 75%

[illegible]

• Molecule 45: 50S RIBOSOMAL PROTEIN L12

[illegible]

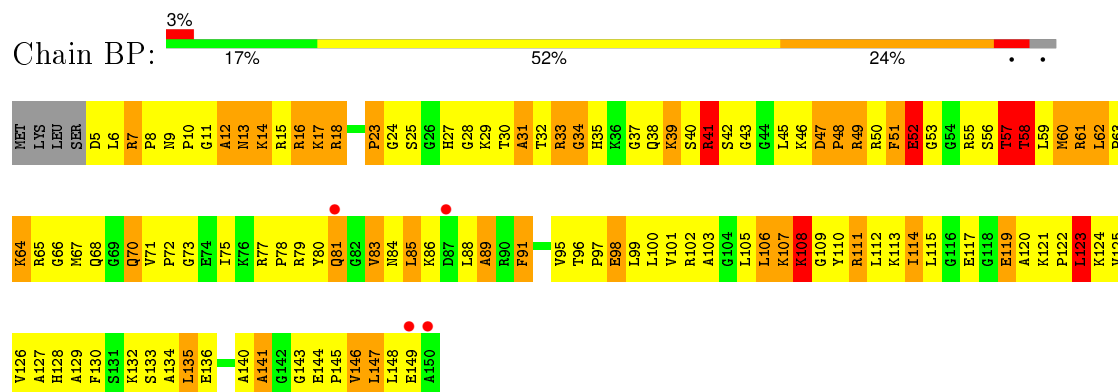
H130	Q131	A132	Q133	R134	P135	E136	K137	L138	E139	VAL
------	------	------	------	------	------	------	------	------	------	-----

P129	H130	Q131	A132	Q133	R134	P135	E136	K137	L138	E139	VAL
------	------	------	------	------	------	------	------	------	------	------	-----

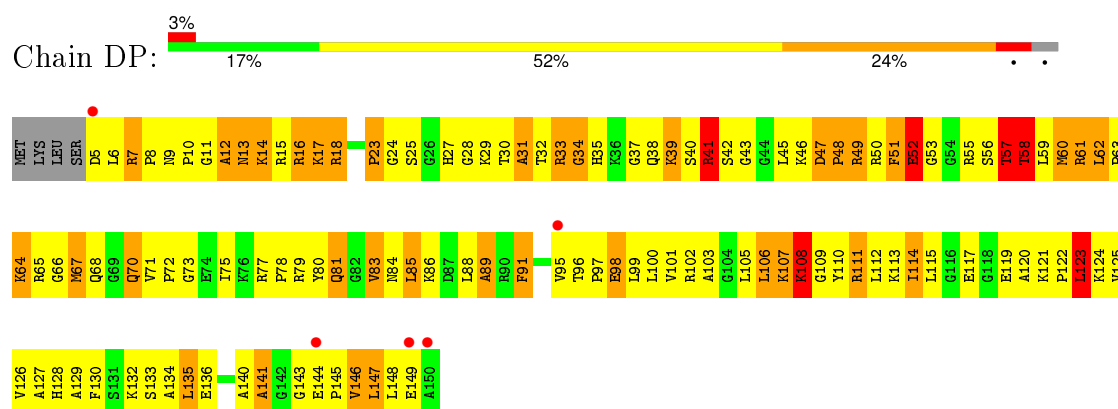
I69	A76	D80	N81	A83	A84	V85	I86	N88	N89	Q90	L91	E92	R97	V98	F99	G100	A103	R104	E105	L106	R107	E108	K109	G110	F111	M112	K113	I114	V115	S116	L117	A118	P119	E120	V121	I122
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

M1	I2	Q3	P4	Q5	T6	E9	V10	M13	T14	G15	A16	R17	K18	I19	I22	R23	Q24	V25	L26	K26	N29	A30	K31	Y32	A33	T34	V35	G36	D37	V38	I39	A41	S42	V43	K44	E46	A46	P48	R49	V52	K53	E54	G55	D56	A60	V61	V62	V63	R64	V67
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

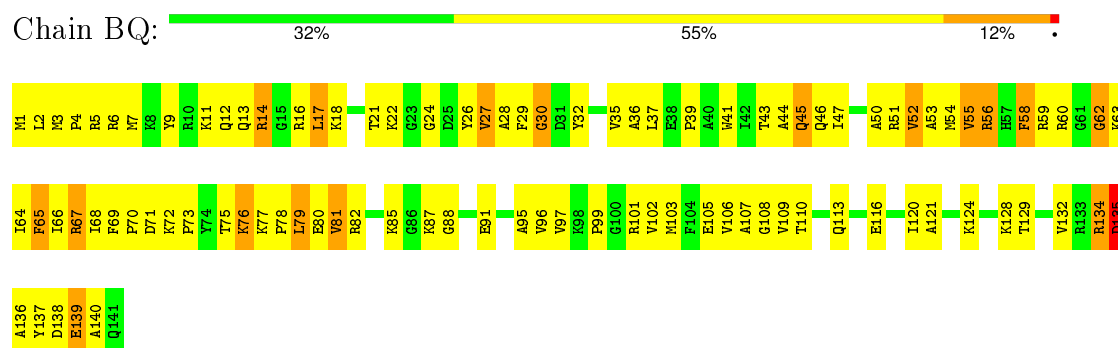
- Molecule 48: 50S RIBOSOMAL PROTEIN L15



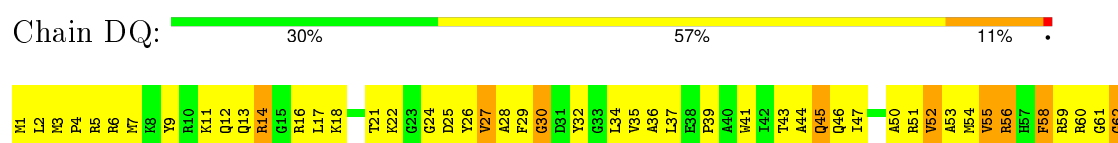
• Molecule 48: 50S RIBOSOMAL PROTEIN L15

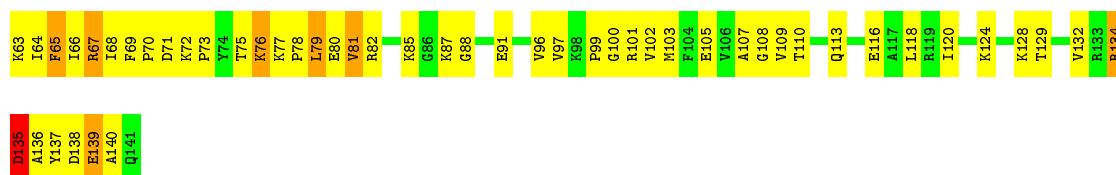


- Molecule 49: 50S RIBOSOMAL PROTEIN L16

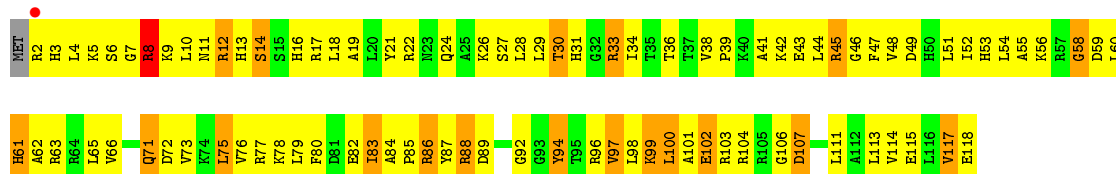


● Molecule 49: 50S RIBOSOMAL PROTEIN L16

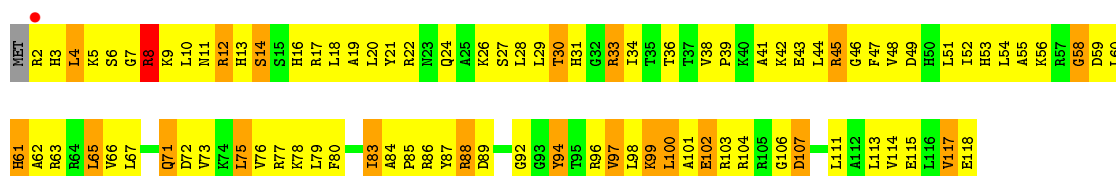




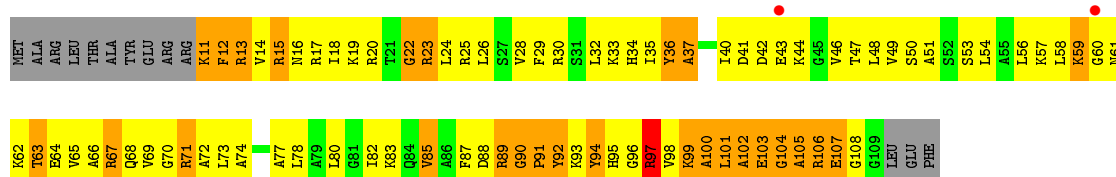
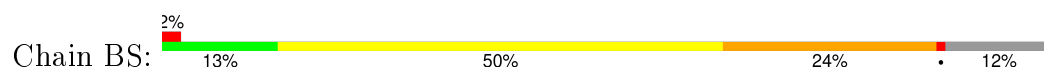
• Molecule 50: 50S RIBOSOMAL PROTEIN L17



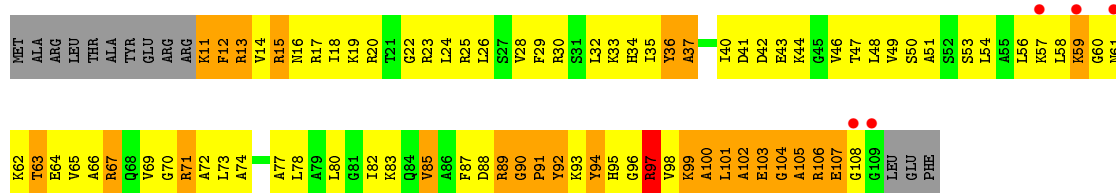
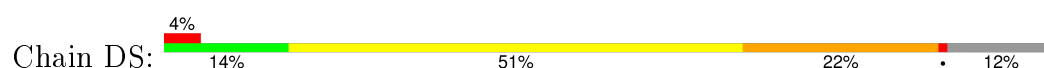
- Molecule 50: 50S RIBOSOMAL PROTEIN L17



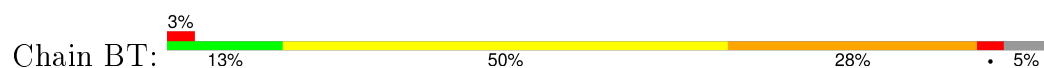
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

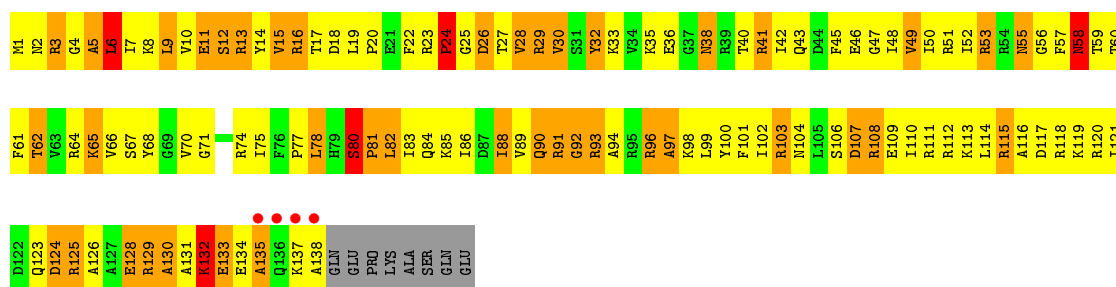


- Molecule 51: 50S RIBOSOMAL PROTEIN L18

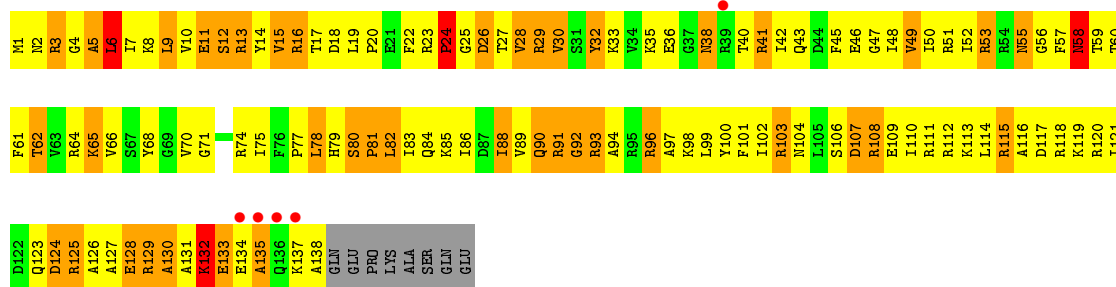
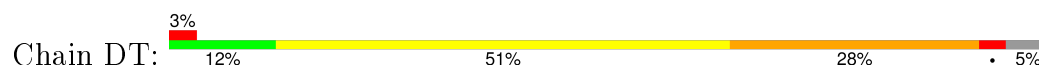


• Molecule 52: 50S RIBOSOMAL PROTEIN L19

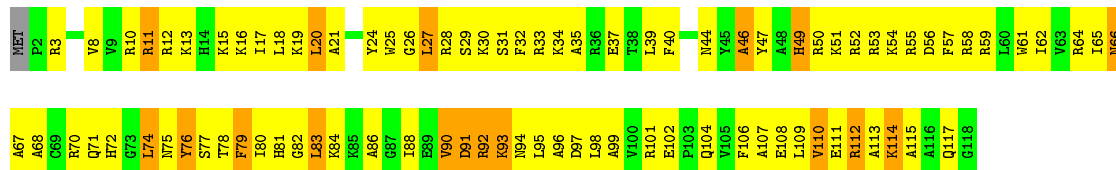




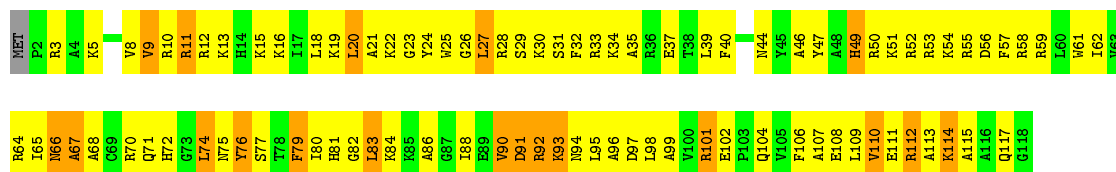
• Molecule 52: 50S RIBOSOMAL PROTEIN L19



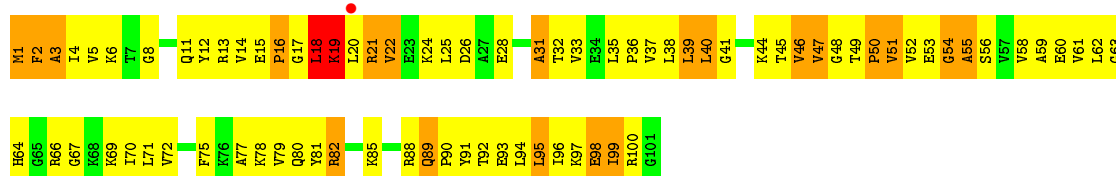
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



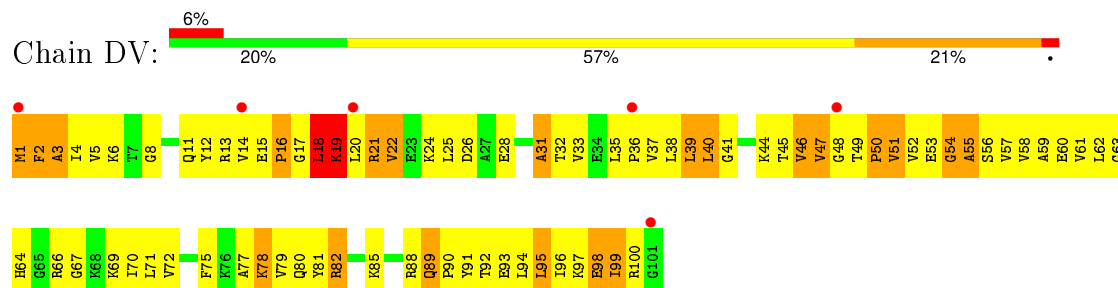
• Molecule 53: 50S RIBOSOMAL PROTEIN L20



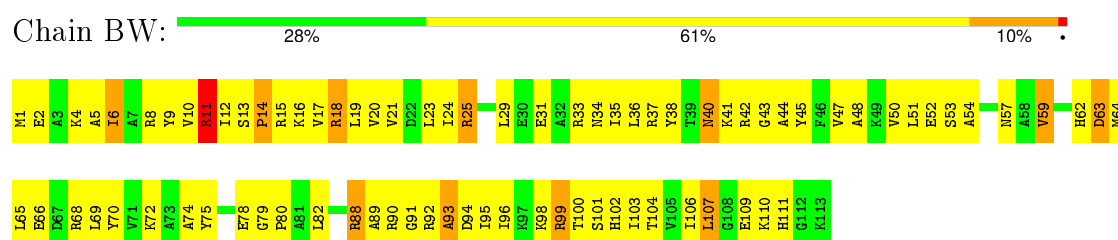
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



- Molecule 54: 50S RIBOSOMAL PROTEIN L21



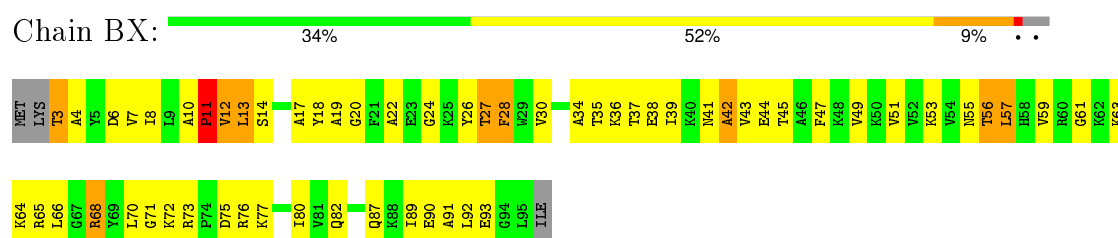
- Molecule 55: 50S RIBOSOMAL PROTEIN L22



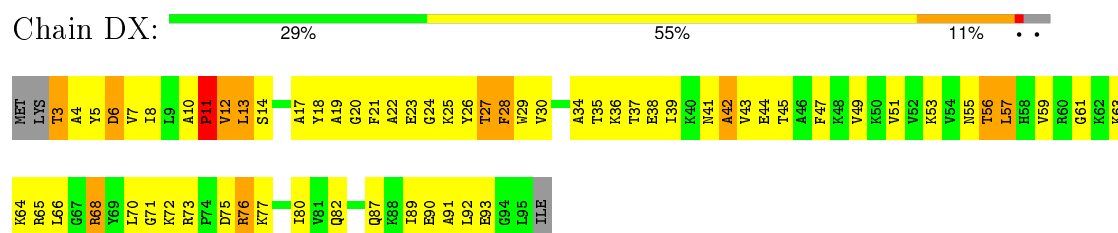
- Molecule 55: 50S RIBOSOMAL PROTEIN L22



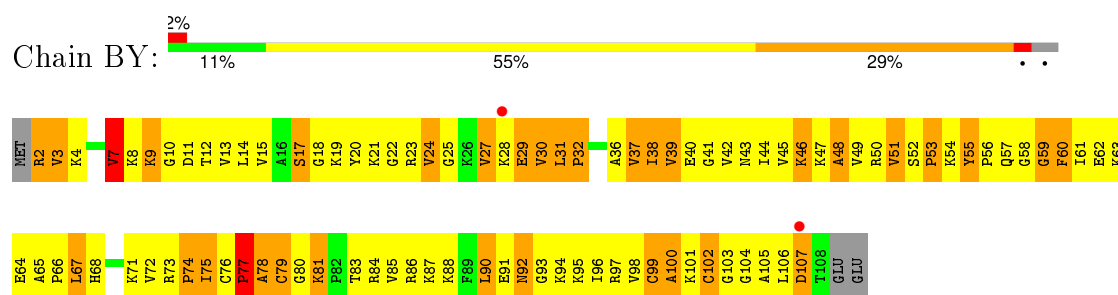
- Molecule 56: 50S RIBOSOMAL PROTEIN L23



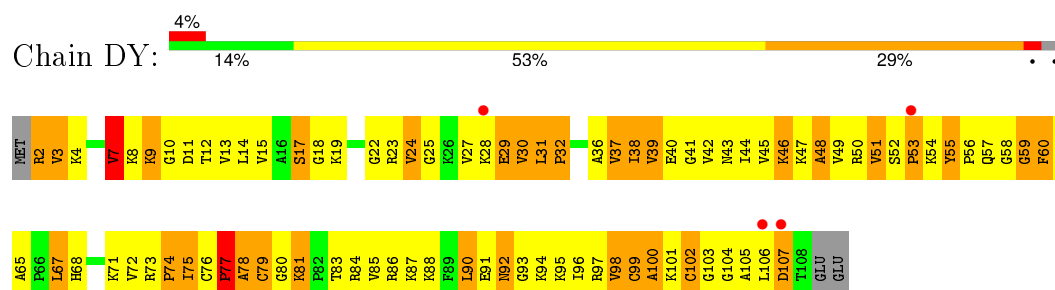
- Molecule 56: 50S RIBOSOMAL PROTEIN L23



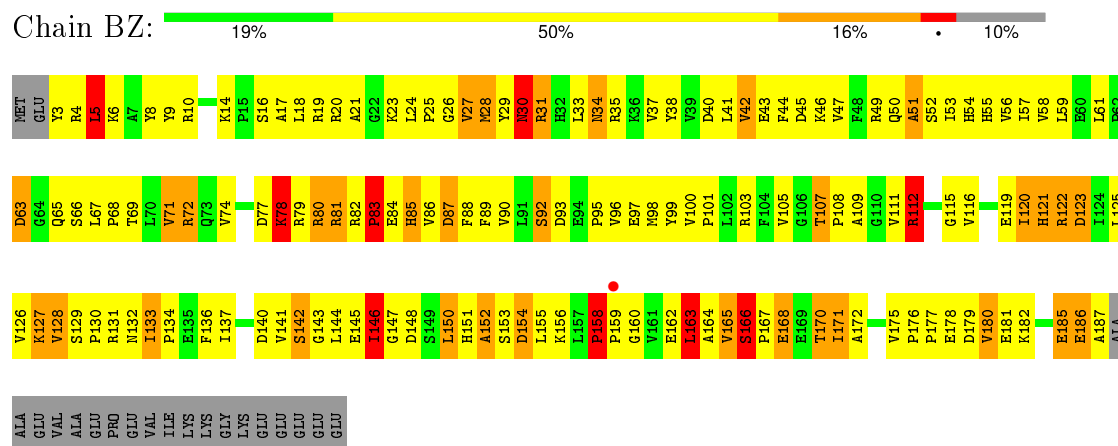
- Molecule 57: 50S RIBOSOMAL PROTEIN L24



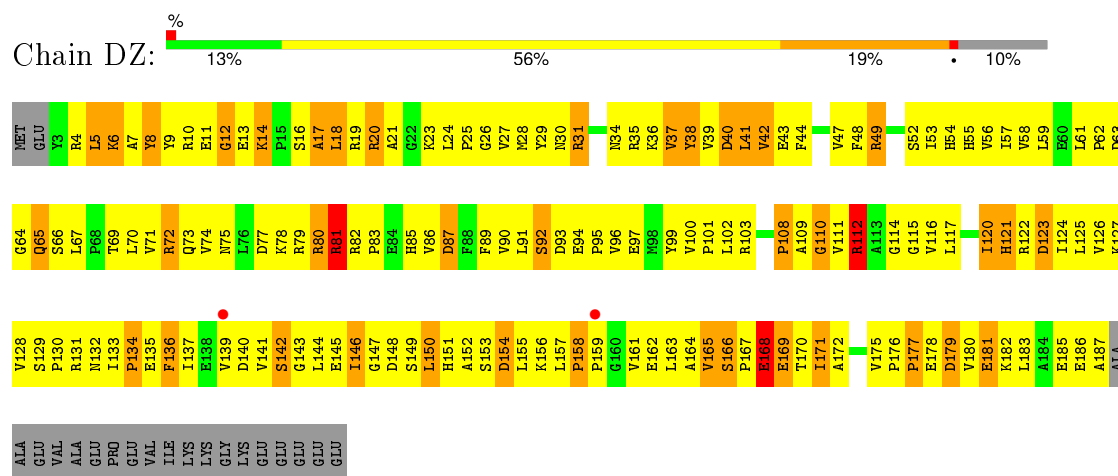
• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	291.84Å 270.36Å 402.36Å 90.00° 91.73° 90.00°	Depositor
Resolution (Å)	50.00 – 3.60 49.57 – 3.40	Depositor EDS
% Data completeness (in resolution range)	96.0 (50.00-3.60) 95.0 (49.57-3.40)	Depositor EDS
R_{merge}	0.37	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 3.40Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.227 , 0.260 0.227 , 0.227	Depositor DCC
R_{free} test set	34394 reflections (5.24%)	DCC
Wilson B-factor (Å ²)	78.6	Xtriage
Anisotropy	0.084	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 34.7	EDS
Estimated twinning fraction	0.048 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 810659 reflections	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	311552	wwPDB-VP
Average B, all atoms (Å ²)	86.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.36% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	AA	0.61	1/36190 (0.0%)	0.76	26/56486 (0.0%)
1	CA	0.60	2/36190 (0.0%)	0.76	20/56486 (0.0%)
2	AB	0.46	0/1936	0.70	0/2611
2	CB	0.44	0/1936	0.70	0/2611
3	AC	0.52	0/1637	0.69	0/2207
3	CC	0.46	0/1637	0.69	0/2207
4	AD	0.42	0/1733	0.66	0/2318
4	CD	0.41	0/1733	0.66	0/2318
5	AE	0.59	0/1163	0.72	0/1566
5	CE	0.55	0/1163	0.71	0/1566
6	AF	0.44	0/856	0.67	0/1154
6	CF	0.40	0/856	0.66	0/1154
7	AG	0.45	0/1276	0.65	0/1709
7	CG	0.45	0/1276	0.65	0/1709
8	AH	0.51	0/1136	0.74	0/1527
8	CH	0.46	0/1136	0.74	0/1527
9	AI	0.44	0/1027	0.68	0/1373
9	CI	0.41	0/1027	0.67	0/1373
10	AJ	0.47	0/808	0.72	0/1087
10	CJ	0.42	0/808	0.71	0/1087
11	AK	0.50	0/900	0.70	0/1213
11	CK	0.47	0/900	0.70	0/1213
12	AL	0.52	0/987	0.75	0/1322
12	CL	0.48	0/987	0.74	0/1322
13	AM	0.41	0/999	0.69	0/1338
13	CM	0.39	0/999	0.69	0/1338
14	AN	0.49	0/501	0.69	0/664
14	CN	0.47	0/501	0.69	0/664
15	AO	0.45	0/745	0.67	0/992
15	CO	0.43	0/745	0.66	0/992
16	AP	0.45	0/717	0.68	0/965
16	CP	0.43	0/717	0.68	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.51	0/837	0.69	0/1119
17	CQ	0.49	0/837	0.69	0/1119
18	AR	0.47	0/579	0.72	0/768
18	CR	0.45	0/579	0.73	0/768
19	AS	0.46	0/643	0.68	1/867 (0.1%)
19	CS	0.44	0/643	0.67	1/867 (0.1%)
20	AT	0.40	0/765	0.66	0/1007
20	CT	0.39	0/765	0.66	0/1007
21	AU	0.52	0/213	0.65	0/279
21	CU	0.50	0/213	0.65	0/279
22	AV	0.57	0/1810	0.73	0/2821
22	AW	0.41	0/1810	0.72	0/2821
22	CV	0.54	0/1810	0.70	0/2821
22	CW	0.38	0/1810	0.69	0/2821
23	AX	0.82	0/257	0.86	0/398
23	CX	0.79	0/257	0.84	1/398 (0.3%)
24	AY	0.40	0/5313	0.69	0/7195
24	CY	0.42	0/5313	0.69	1/7195 (0.0%)
25	B0	0.43	0/671	0.66	0/892
25	D0	0.42	0/671	0.67	0/892
26	B1	0.48	0/739	0.78	0/983
26	D1	0.45	0/739	0.69	0/983
27	B2	0.36	0/600	0.66	0/793
27	D2	0.37	0/600	0.62	0/793
28	B3	0.43	0/473	0.63	0/636
28	D3	0.43	0/473	0.64	0/636
29	B4	0.68	0/461	0.92	2/623 (0.3%)
29	D4	0.74	0/461	0.93	2/623 (0.3%)
30	B5	0.43	0/473	0.75	0/639
30	D5	0.44	0/473	0.74	0/639
31	B6	0.64	0/440	0.96	1/586 (0.2%)
31	D6	0.64	0/440	0.96	1/586 (0.2%)
32	B7	0.45	0/427	0.71	0/563
32	D7	0.45	0/427	0.71	0/563
33	B8	0.54	0/516	0.83	0/681
33	D8	0.54	0/516	0.83	0/681
34	B9	0.47	0/310	0.69	0/407
34	D9	0.46	0/310	0.70	0/407
35	BA	0.56	3/69972 (0.0%)	0.75	35/109237 (0.0%)
35	DA	0.55	4/69972 (0.0%)	0.75	36/109237 (0.0%)
36	BB	0.44	0/2853	0.72	1/4451 (0.0%)
36	DB	0.44	0/2853	0.72	0/4451
37	BC	0.35	0/1774	0.61	0/2391

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.34	0/1774	0.61	0/2391
38	BD	0.54	0/2195	0.83	0/2955
38	DD	0.53	0/2195	0.82	0/2955
39	BE	0.48	0/1597	0.74	0/2155
39	DE	0.46	0/1597	0.74	0/2155
40	BF	0.39	0/1659	0.66	0/2246
40	DF	0.38	0/1659	0.66	0/2246
41	BG	0.42	0/1498	0.78	1/2013 (0.0%)
41	DG	0.43	0/1498	0.74	0/2013
42	BH	0.36	0/1293	0.71	0/1746
42	DH	0.35	0/1293	0.69	0/1746
44	BK	0.35	0/1045	0.60	0/1418
44	DK	0.36	0/1045	0.60	0/1418
46	BN	0.40	0/1132	0.73	1/1527 (0.1%)
46	DN	0.39	0/1132	0.73	1/1527 (0.1%)
47	BO	0.49	0/943	0.72	0/1269
47	DO	0.47	0/943	0.72	0/1269
48	BP	0.44	0/1131	0.93	4/1504 (0.3%)
48	DP	0.44	0/1131	0.91	4/1504 (0.3%)
49	BQ	0.49	0/1143	0.69	0/1527
49	DQ	0.48	0/1143	0.70	0/1527
50	BR	0.39	0/974	0.68	0/1302
50	DR	0.38	0/974	0.68	1/1302 (0.1%)
51	BS	0.41	0/779	0.69	0/1038
51	DS	0.40	0/779	0.70	0/1038
52	BT	0.47	0/1156	0.79	2/1544 (0.1%)
52	DT	0.49	0/1156	0.79	1/1544 (0.1%)
53	BU	0.43	0/975	0.68	0/1297
53	DU	0.44	0/975	0.69	0/1297
54	BV	0.39	0/790	0.70	0/1057
54	DV	0.39	0/790	0.70	0/1057
55	BW	0.37	0/907	0.65	0/1216
55	DW	0.39	0/907	0.65	0/1216
56	BX	0.42	0/740	0.66	0/995
56	DX	0.42	0/740	0.66	0/995
57	BY	0.41	0/824	0.67	0/1100
57	DY	0.42	0/824	0.68	0/1100
58	BZ	0.48	0/1500	0.74	0/2037
58	DZ	0.46	0/1500	0.73	0/2037
All	All	0.53	10/333656 (0.0%)	0.74	143/497270 (0.0%)

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

detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	48
1	CA	0	43
22	AV	0	3
22	CV	0	1
23	AX	0	2
23	CX	0	1
35	BA	2	69
35	DA	2	58
36	BB	0	1
36	DB	0	1
37	BC	0	1
37	DC	0	1
44	BK	0	1
44	DK	0	1
46	DN	0	1
All	All	4	232

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BA	2506	U	N1-C2	7.05	1.44	1.38
35	DA	2506	U	N1-C2	6.48	1.44	1.38
35	BA	272(I)	U	C1'-N1	5.69	1.57	1.48
1	AA	1417	G	C6-O6	5.55	1.29	1.24
35	DA	272(I)	U	C1'-N1	5.49	1.56	1.48
35	DA	1786	A	C5-C6	-5.20	1.36	1.41
35	DA	1671	U	N3-C4	5.12	1.43	1.38
1	CA	1108	G	C5-C6	5.04	1.47	1.42
1	CA	299	G	C6-O6	5.03	1.28	1.24
35	BA	1828	G	P-OP2	5.02	1.57	1.49

All (143) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1992	G	C2'-C3'-O3'	10.77	133.19	109.50
35	DA	1992	G	C2'-C3'-O3'	10.61	132.85	109.50
1	CA	575	G	C2'-C3'-O3'	9.68	130.80	109.50
1	AA	575	G	C2'-C3'-O3'	9.65	130.72	109.50
35	BA	945	A	N9-C1'-C2'	9.34	126.14	114.00
35	DA	945	A	N9-C1'-C2'	9.33	126.13	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1799	G	C2'-C3'-O3'	9.18	129.70	109.50
35	BA	1799	G	C2'-C3'-O3'	9.10	129.52	109.50
1	CA	1498	U	C2'-C3'-O3'	9.09	129.49	109.50
1	AA	1498	U	C2'-C3'-O3'	8.88	129.05	109.50
1	AA	115	G	C2'-C3'-O3'	8.46	128.11	109.50
35	DA	1379	A	N9-C1'-C2'	8.43	124.96	114.00
1	CA	115	G	C2'-C3'-O3'	8.27	127.69	109.50
35	BA	1379	A	N9-C1'-C2'	8.20	124.66	114.00
35	DA	1786	A	N9-C1'-C2'	7.82	124.16	114.00
35	BA	1786	A	N9-C1'-C2'	7.61	123.89	114.00
1	AA	1502	A	N9-C1'-C2'	7.58	123.85	114.00
35	DA	2799	C	C2'-C3'-O3'	7.49	125.97	109.50
35	BA	2799	C	C2'-C3'-O3'	7.44	125.87	109.50
36	BB	103	G	C5'-C4'-C3'	-7.43	104.11	116.00
35	BA	1156	A	N9-C1'-C2'	7.15	123.29	114.00
35	DA	1156	A	N9-C1'-C2'	7.11	123.25	114.00
1	CA	60	A	C2'-C3'-O3'	7.11	125.14	109.50
48	BP	53	GLY	N-CA-C	-7.06	95.45	113.10
1	AA	60	A	C2'-C3'-O3'	7.04	124.99	109.50
48	DP	53	GLY	N-CA-C	-6.98	95.64	113.10
1	CA	921	U	C5'-C4'-C3'	-6.96	104.86	116.00
1	AA	921	U	C5'-C4'-C3'	-6.76	105.18	116.00
48	DP	52	GLU	N-CA-C	6.76	129.25	111.00
48	BP	52	GLU	N-CA-C	6.72	129.15	111.00
35	DA	1654	A	C5'-C4'-C3'	6.65	126.64	116.00
35	BA	788	A	N9-C1'-C2'	6.55	122.51	114.00
35	BA	1396	U	N1-C1'-C2'	6.51	122.46	114.00
35	BA	1654	A	C5'-C4'-C3'	6.48	126.37	116.00
1	AA	1285	A	C2'-C3'-O3'	6.45	124.02	113.70
1	CA	1505	G	O5'-P-OP1	-6.43	99.91	105.70
35	DA	1020	A	N9-C1'-C2'	6.43	122.36	114.00
1	CA	792	A	C5'-C4'-C3'	-6.36	105.83	116.00
35	DA	1396	U	N1-C1'-C2'	6.35	122.25	114.00
1	AA	1457	G	N9-C1'-C2'	-6.33	105.03	112.00
19	AS	5	LEU	CA-CB-CG	6.33	129.85	115.30
1	AA	792	A	C5'-C4'-C3'	-6.31	105.90	116.00
35	BA	1236	G	N9-C1'-C2'	6.30	122.20	114.00
31	D6	23	THR	N-CA-C	6.29	127.98	111.00
1	AA	328	C	C2'-C3'-O3'	6.28	123.75	113.70
35	BA	49	A	C2'-C3'-O3'	6.28	123.75	113.70
1	CA	533	A	C2'-C3'-O3'	6.27	123.73	113.70
29	B4	43	TYR	N-CA-C	6.26	127.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B6	23	THR	N-CA-C	6.24	127.86	111.00
29	D4	43	TYR	N-CA-C	6.23	127.82	111.00
1	AA	1190	G	N9-C1'-C2'	6.21	122.07	114.00
1	AA	1201	A	C2'-C3'-O3'	6.20	123.62	113.70
35	BA	1020	A	N9-C1'-C2'	6.17	122.03	114.00
35	DA	788	A	N9-C1'-C2'	6.15	122.00	114.00
35	BA	2732	G	N9-C1'-C2'	6.14	121.99	114.00
35	DA	945	A	O4'-C1'-N9	6.06	113.05	108.20
35	DA	1236	G	N9-C1'-C2'	6.06	121.87	114.00
48	DP	58	THR	N-CA-C	-6.03	94.73	111.00
1	CA	428	G	C2'-C3'-O3'	6.02	123.33	113.70
1	CA	1502	A	N9-C1'-C2'	6.02	121.82	114.00
35	BA	945	A	O4'-C1'-N9	6.00	113.00	108.20
35	BA	2225	A	C2'-C3'-O3'	6.00	123.29	113.70
1	CA	1190	G	N9-C1'-C2'	5.99	121.78	114.00
35	DA	1819	A	N9-C1'-C2'	5.99	121.79	114.00
1	AA	533	A	C2'-C3'-O3'	5.95	123.22	113.70
35	DA	49	A	C2'-C3'-O3'	5.95	123.22	113.70
1	CA	1493	A	C2'-C3'-O3'	5.95	123.22	113.70
1	CA	204	U	O4'-C1'-N1	5.94	112.95	108.20
35	BA	1493	C	N1-C1'-C2'	5.93	121.71	114.00
1	AA	1109	C	OP2-P-O3'	5.93	118.24	105.20
48	BP	58	THR	N-CA-C	-5.93	95.00	111.00
1	CA	328	C	C2'-C3'-O3'	5.92	123.18	113.70
1	AA	428	G	C2'-C3'-O3'	5.85	123.05	113.70
19	CS	5	LEU	CA-CB-CG	5.84	128.74	115.30
1	AA	1398	A	C5'-C4'-C3'	-5.84	106.66	116.00
35	BA	1819	A	N9-C1'-C2'	5.84	121.59	114.00
35	DA	2732	G	N9-C1'-C2'	5.81	121.56	114.00
35	DA	1493	C	N1-C1'-C2'	5.78	121.51	114.00
35	BA	2172	U	C2'-C3'-O3'	5.75	122.91	113.70
1	CA	1285	A	C2'-C3'-O3'	5.75	122.90	113.70
1	AA	204	U	O4'-C1'-N1	5.72	112.78	108.20
35	BA	1252	G	N9-C1'-C2'	5.71	121.42	114.00
35	DA	2225	A	C2'-C3'-O3'	5.71	122.83	113.70
35	BA	2835	A	N9-C1'-C2'	5.70	121.41	114.00
1	AA	30	U	N1-C1'-C2'	5.70	121.41	114.00
35	BA	1838	C	C2'-C3'-O3'	5.69	122.81	113.70
1	CA	1201	A	C2'-C3'-O3'	5.68	122.79	113.70
35	BA	2345	G	C1'-O4'-C4'	-5.64	105.39	109.90
35	BA	2026	C	C5'-C4'-C3'	-5.62	107.02	116.00
35	BA	479	A	N9-C1'-C2'	5.59	121.27	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1237	A	N9-C1'-C2'	5.58	121.25	114.00
35	DA	2481	G	N9-C1'-C2'	5.56	121.23	114.00
35	BA	2481	G	N9-C1'-C2'	5.54	121.21	114.00
35	BA	675	A	N9-C1'-C2'	5.54	121.20	114.00
35	BA	1237	A	N9-C1'-C2'	5.54	121.19	114.00
35	DA	2172	U	C2'-C3'-O3'	5.52	122.53	113.70
1	CA	366	C	C2'-C3'-O3'	5.48	122.47	113.70
35	DA	1252	G	N9-C1'-C2'	5.46	121.10	114.00
35	DA	479	A	N9-C1'-C2'	5.44	121.07	114.00
35	DA	906	G	C5'-C4'-C3'	-5.43	107.31	116.00
35	DA	2779	U	O4'-C1'-N1	5.42	112.53	108.20
1	AA	366	C	C2'-C3'-O3'	5.41	122.35	113.70
35	DA	1838	C	C2'-C3'-O3'	5.40	122.34	113.70
35	DA	1904	G	C5'-C4'-C3'	-5.40	107.36	116.00
35	BA	1959	G	C5'-C4'-C3'	-5.37	107.41	116.00
35	BA	1948	G	C5'-C4'-O4'	-5.36	102.66	109.10
35	DA	748	G	N9-C1'-C2'	5.36	120.97	114.00
23	CX	11	U	N1-C1'-C2'	5.32	120.92	114.00
35	DA	2835	A	N9-C1'-C2'	5.31	120.90	114.00
35	BA	1818	U	C5'-C4'-C3'	-5.27	107.56	116.00
1	CA	30	U	N1-C1'-C2'	5.26	120.84	114.00
35	DA	2026	C	C5'-C4'-C3'	-5.25	107.60	116.00
1	AA	481	G	C5'-C4'-C3'	-5.23	107.63	116.00
35	DA	675	A	N9-C1'-C2'	5.22	120.79	114.00
46	BN	3	THR	N-CA-C	-5.22	96.92	111.00
52	BT	29	ARG	N-CA-C	5.22	125.08	111.00
29	D4	53	GLU	N-CA-C	5.21	125.06	111.00
35	DA	2345	G	C1'-O4'-C4'	-5.18	105.75	109.90
35	BA	2126	A	N9-C1'-C2'	5.18	120.73	114.00
24	CY	34	TYR	N-CA-C	-5.18	97.02	111.00
1	AA	812	C	OP2-P-O3'	5.17	116.59	105.20
1	AA	1049	U	N1-C1'-C2'	5.15	120.70	114.00
35	BA	2779	U	O4'-C1'-N1	5.15	112.32	108.20
1	AA	1065	U	N1-C1'-C2'	5.15	120.69	114.00
35	DA	2035	G	N9-C1'-C2'	5.15	120.69	114.00
46	DN	3	THR	N-CA-C	-5.15	97.10	111.00
1	CA	1049	U	N1-C1'-C2'	5.14	120.68	114.00
52	DT	29	ARG	N-CA-C	5.13	124.86	111.00
48	DP	41	ARG	N-CA-C	-5.12	97.17	111.00
35	BA	1459	G	N9-C1'-C2'	5.10	120.63	114.00
41	BG	139	LEU	CA-CB-CG	5.09	127.01	115.30
1	AA	1498	U	OP2-P-O3'	5.09	116.39	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B4	53	GLU	N-CA-C	5.07	124.70	111.00
35	DA	1948	G	C5'-C4'-O4'	-5.06	103.03	109.10
48	BP	41	ARG	N-CA-C	-5.05	97.36	111.00
35	DA	1654	A	N9-C1'-C2'	-5.03	106.47	112.00
1	AA	754	C	N1-C1'-C2'	5.03	120.53	114.00
1	AA	1456	G	N9-C1'-C2'	5.03	120.53	114.00
1	CA	754	C	N1-C1'-C2'	5.02	120.53	114.00
50	DR	4	LEU	CA-CB-CG	5.02	126.85	115.30
35	DA	1351	C	C5'-C4'-C3'	-5.01	107.98	116.00
52	BT	80	SER	N-CA-C	5.01	124.53	111.00
35	BA	848	G	C5'-C4'-C3'	-5.00	107.99	116.00

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
35	BA	1799	G	C3'
35	BA	1992	G	C3'
35	DA	1799	G	C3'
35	DA	1992	G	C3'

All (232) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1077	G	Sidechain
1	AA	108	G	Sidechain
1	AA	1109	C	Sidechain
1	AA	112	G	Sidechain
1	AA	1184	G	Sidechain
1	AA	1190	G	Sidechain
1	AA	1219	U	Sidechain
1	AA	1226	C	Sidechain
1	AA	1331	G	Sidechain
1	AA	1355	G	Sidechain
1	AA	1370	G	Sidechain
1	AA	1391	U	Sidechain
1	AA	1401	G	Sidechain
1	AA	1402	C	Sidechain
1	AA	1403	C	Sidechain
1	AA	1414	U	Sidechain
1	AA	1485	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1498	U	Sidechain
1	AA	1502	A	Sidechain
1	AA	1512	U	Sidechain
1	AA	1519	A	Sidechain
1	AA	30	U	Sidechain
1	AA	309	G	Sidechain
1	AA	361	G	Sidechain
1	AA	387	U	Sidechain
1	AA	39	G	Sidechain
1	AA	436	C	Sidechain
1	AA	5	U	Sidechain
1	AA	573	A	Sidechain
1	AA	582	U	Sidechain
1	AA	598	U	Sidechain
1	AA	672	U	Sidechain
1	AA	691	G	Sidechain
1	AA	724	G	Sidechain
1	AA	741	G	Sidechain
1	AA	748	C	Sidechain
1	AA	760	G	Sidechain
1	AA	781	A	Sidechain
1	AA	835	U	Sidechain
1	AA	887	G	Sidechain
1	AA	898	G	Sidechain
1	AA	963	G	Sidechain
1	AA	969	A	Sidechain
1	AA	971	G	Sidechain
1	AA	981	U	Sidechain
1	AA	991	U	Sidechain
22	AV	29	G	Sidechain
22	AV	4	G	Sidechain
22	AV	8	U	Sidechain
23	AX	12	A	Sidechain
23	AX	17	U	Sidechain
35	BA	1142(A)	A	Sidechain
35	BA	1156	A	Sidechain
35	BA	1215	G	Sidechain
35	BA	1236	G	Sidechain
35	BA	1238	G	Sidechain
35	BA	1253	A	Sidechain
35	BA	1302	A	Sidechain
35	BA	1379	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	1496	A	Sidechain
35	BA	1614	A	Sidechain
35	BA	1623	G	Sidechain
35	BA	1633	G	Sidechain
35	BA	1645	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1776	G	Sidechain
35	BA	1781	C	Sidechain
35	BA	1822	G	Sidechain
35	BA	1827	C	Sidechain
35	BA	1919	A	Sidechain
35	BA	1920	C	Sidechain
35	BA	1926	U	Sidechain
35	BA	1929	G	Sidechain
35	BA	1952	A	Sidechain
35	BA	1992	G	Sidechain
35	BA	200	U	Sidechain
35	BA	2009	G	Sidechain
35	BA	2010	G	Sidechain
35	BA	2031	A	Sidechain
35	BA	2051	A	Sidechain
35	BA	2052	G	Sidechain
35	BA	2053	G	Sidechain
35	BA	2059	A	Sidechain
35	BA	2079	U	Sidechain
35	BA	2126	A	Sidechain
35	BA	2250	G	Sidechain
35	BA	2266	A	Sidechain
35	BA	2296	U	Sidechain
35	BA	2340	G	Sidechain
35	BA	2344	U	Sidechain
35	BA	2401	U	Sidechain
35	BA	2464	C	Sidechain
35	BA	248	G	Sidechain
35	BA	2481	G	Sidechain
35	BA	2494	G	Sidechain
35	BA	2504	U	Sidechain
35	BA	2506	U	Sidechain
35	BA	2508	G	Sidechain
35	BA	2518	A	Sidechain
35	BA	2564	A	Sidechain
35	BA	2569	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2609	U	Sidechain
35	BA	2659	G	Sidechain
35	BA	2685	G	Sidechain
35	BA	2826	A	Sidechain
35	BA	2835	A	Sidechain
35	BA	395	U	Sidechain
35	BA	463	G	Sidechain
35	BA	528	A	Sidechain
35	BA	562	U	Sidechain
35	BA	686	G	Sidechain
35	BA	688	U	Sidechain
35	BA	742	G	Sidechain
35	BA	788	A	Sidechain
35	BA	83	G	Sidechain
35	BA	845	G	Sidechain
35	BA	895	U	Sidechain
35	BA	913	U	Sidechain
35	BA	945	A	Sidechain
35	BA	958	U	Sidechain
36	BB	21	G	Sidechain
37	BC	28	ARG	Sidechain
44	BK	6	ALA	Peptide
1	CA	1053	G	Sidechain
1	CA	1077	G	Sidechain
1	CA	1190	G	Sidechain
1	CA	1226	C	Sidechain
1	CA	1231	G	Sidechain
1	CA	1331	G	Sidechain
1	CA	1355	G	Sidechain
1	CA	1370	G	Sidechain
1	CA	1502	A	Sidechain
1	CA	1505	G	Sidechain
1	CA	1512	U	Sidechain
1	CA	1519	A	Sidechain
1	CA	1525	G	Sidechain
1	CA	1527	C	Sidechain
1	CA	204	U	Sidechain
1	CA	223	U	Sidechain
1	CA	250	A	Sidechain
1	CA	253	U	Sidechain
1	CA	30	U	Sidechain
1	CA	309	G	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	361	G	Sidechain
1	CA	39	G	Sidechain
1	CA	436	C	Sidechain
1	CA	5	U	Sidechain
1	CA	548	G	Sidechain
1	CA	573	A	Sidechain
1	CA	582	U	Sidechain
1	CA	598	U	Sidechain
1	CA	641	U	Sidechain
1	CA	657	G	Sidechain
1	CA	672	U	Sidechain
1	CA	691	G	Sidechain
1	CA	724	G	Sidechain
1	CA	727	G	Sidechain
1	CA	741	G	Sidechain
1	CA	760	G	Sidechain
1	CA	781	A	Sidechain
1	CA	835	U	Sidechain
1	CA	887	G	Sidechain
1	CA	898	G	Sidechain
1	CA	931	C	Sidechain
1	CA	971	G	Sidechain
1	CA	991	U	Sidechain
22	CV	4	G	Sidechain
23	CX	11	U	Sidechain
35	DA	1156	A	Sidechain
35	DA	1236	G	Sidechain
35	DA	1238	G	Sidechain
35	DA	1302	A	Sidechain
35	DA	1379	A	Sidechain
35	DA	1614	A	Sidechain
35	DA	1623	G	Sidechain
35	DA	1645	G	Sidechain
35	DA	1772	G	Sidechain
35	DA	1776	G	Sidechain
35	DA	1781	C	Sidechain
35	DA	1822	G	Sidechain
35	DA	1907	G	Sidechain
35	DA	1919	A	Sidechain
35	DA	1920	C	Sidechain
35	DA	1926	U	Sidechain
35	DA	1952	A	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	1992	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	2010	G	Sidechain
35	DA	2031	A	Sidechain
35	DA	2051	A	Sidechain
35	DA	2052	G	Sidechain
35	DA	2053	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2061	G	Sidechain
35	DA	2079	U	Sidechain
35	DA	2126	A	Sidechain
35	DA	2250	G	Sidechain
35	DA	2266	A	Sidechain
35	DA	2340	G	Sidechain
35	DA	2344	U	Sidechain
35	DA	2401	U	Sidechain
35	DA	2464	C	Sidechain
35	DA	248	G	Sidechain
35	DA	2481	G	Sidechain
35	DA	2494	G	Sidechain
35	DA	2506	U	Sidechain
35	DA	2508	G	Sidechain
35	DA	2518	A	Sidechain
35	DA	2659	G	Sidechain
35	DA	2685	G	Sidechain
35	DA	2732	G	Sidechain
35	DA	2835	A	Sidechain
35	DA	395	U	Sidechain
35	DA	463	G	Sidechain
35	DA	528	A	Sidechain
35	DA	686	G	Sidechain
35	DA	688	U	Sidechain
35	DA	690	G	Sidechain
35	DA	742	G	Sidechain
35	DA	788	A	Sidechain
35	DA	83	G	Sidechain
35	DA	845	G	Sidechain
35	DA	895	U	Sidechain
35	DA	913	U	Sidechain
35	DA	945	A	Sidechain
35	DA	958	U	Sidechain
36	DB	21	G	Sidechain

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Mol	Chain	Res	Type	Group
37	DC	28	ARG	Sidechain
44	DK	5	VAL	Peptide
46	DN	72	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1237	0
1	CA	32329	0	16318	1268	0
2	AB	1901	0	1951	243	0
2	CB	1901	0	1951	241	2
3	AC	1613	0	1677	211	0
3	CC	1613	0	1677	216	0
4	AD	1703	0	1763	187	0
4	CD	1703	0	1763	191	0
5	AE	1147	0	1207	128	0
5	CE	1147	0	1207	134	0
6	AF	843	0	857	77	0
6	CF	843	0	857	79	0
7	AG	1257	0	1296	100	0
7	CG	1257	0	1296	95	0
8	AH	1116	0	1177	86	0
8	CH	1116	0	1177	88	0
9	AI	1010	0	1035	135	0
9	CI	1010	0	1035	132	0
10	AJ	795	0	840	180	0
10	CJ	795	0	840	176	0
11	AK	885	0	904	77	0
11	CK	885	0	904	75	0
12	AL	971	0	1057	131	0
12	CL	971	0	1057	129	0
13	AM	988	0	1059	146	0
13	CM	988	0	1059	144	0
14	AN	492	0	530	68	0
14	CN	492	0	530	65	0
15	AO	734	0	771	66	0
15	CO	734	0	771	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	AP	701	0	720	78	0
16	CP	701	0	720	78	0
17	AQ	824	0	891	60	0
17	CQ	824	0	891	57	0
18	AR	574	0	644	71	0
18	CR	574	0	644	72	0
19	AS	630	0	652	119	0
19	CS	630	0	652	122	0
20	AT	763	0	861	96	0
20	CT	763	0	861	93	0
21	AU	209	0	221	19	0
21	CU	209	0	221	21	0
22	AV	1640	0	836	72	0
22	AW	1640	0	836	83	0
22	CV	1640	0	836	49	0
22	CW	1640	0	836	71	0
23	AX	230	0	119	26	0
23	CX	230	0	119	21	0
24	AY	5215	0	5287	798	0
24	CY	5215	0	5287	767	0
25	B0	662	0	688	86	0
25	D0	662	0	688	87	0
26	B1	732	0	808	131	0
26	D1	732	0	808	126	0
27	B2	598	0	653	106	0
27	D2	598	0	653	108	0
28	B3	468	0	523	60	0
28	D3	468	0	523	55	0
29	B4	451	0	448	99	0
29	D4	451	0	449	100	0
30	B5	459	0	480	108	0
30	D5	459	0	480	110	0
31	B6	433	0	461	176	0
31	D6	433	0	461	177	0
32	B7	419	0	467	38	0
32	D7	419	0	467	40	0
33	B8	508	0	576	107	0
33	D8	508	0	576	108	0
34	B9	307	0	335	39	0
34	D9	307	0	335	39	0
35	BA	62474	0	31497	2706	0
35	DA	62474	0	31497	2749	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	BB	2551	0	1295	127	0
36	DB	2551	0	1295	135	0
37	BC	1742	0	1798	169	0
37	DC	1742	0	1798	168	2
38	BD	2145	0	2234	302	0
38	DD	2145	0	2234	306	0
39	BE	1564	0	1629	280	0
39	DE	1564	0	1629	282	0
40	BF	1624	0	1677	261	0
40	DF	1624	0	1677	269	0
41	BG	1474	0	1534	288	0
41	DG	1474	0	1534	272	0
42	BH	1269	0	1337	231	0
42	DH	1269	0	1337	216	0
43	BJ	851	0	191	28	0
43	DJ	851	0	195	44	0
44	BK	1026	0	1066	151	0
44	DK	1026	0	1066	146	0
45	BL	506	0	111	14	0
45	BM	151	0	33	4	0
45	Bl	151	0	32	0	0
45	Bm	146	0	32	0	0
45	DL	506	0	115	17	0
45	DM	151	0	32	1	0
45	DI	151	0	32	0	0
45	Dm	146	0	31	0	0
46	BN	1105	0	1180	196	0
46	DN	1105	0	1180	196	0
47	BO	933	0	996	106	0
47	DO	933	0	996	106	0
48	BP	1114	0	1187	303	0
48	DP	1114	0	1187	304	0
49	BQ	1122	0	1179	148	0
49	DQ	1122	0	1179	150	0
50	BR	960	0	1021	163	0
50	DR	960	0	1021	160	0
51	BS	771	0	832	173	0
51	DS	771	0	832	161	0
52	BT	1142	0	1202	248	0
52	DT	1142	0	1202	244	0
53	BU	958	0	1015	171	0
53	DU	958	0	1015	174	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	BV	779	0	852	140	0
54	DV	779	0	852	145	0
55	BW	896	0	953	97	0
55	DW	896	0	953	91	0
56	BX	726	0	778	78	0
56	DX	726	0	778	85	0
57	BY	811	0	901	171	0
57	DY	811	0	901	174	0
58	BZ	1468	0	1492	238	0
58	DZ	1468	0	1492	275	0
59	AD	1	0	0	0	0
59	AN	1	0	0	1	0
59	B4	1	0	0	0	0
59	B9	1	0	0	0	0
59	CD	1	0	0	0	0
59	CN	1	0	0	0	0
59	D4	1	0	0	0	0
59	D9	1	0	0	0	0
60	AY	1	0	0	0	0
60	CY	1	0	0	0	0
61	AY	37	0	47	13	0
61	CY	37	0	47	22	0
62	AY	28	0	12	8	0
62	CY	28	0	12	8	0
All	All	311552	0	214129	22501	2

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 43.

All (22501) 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)
42:DH:157:TYR:CE1	42:DH:171:LEU:HD22	1.61	1.35
42:BH:157:TYR:CE1	42:BH:171:LEU:HD22	1.62	1.32
42:DH:157:TYR:HE1	42:DH:171:LEU:CD2	1.50	1.24
42:BH:157:TYR:HE1	42:BH:171:LEU:CD2	1.50	1.24
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.24	1.20
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.23	1.19
24:AY:662:LYS:NZ	42:BH:175:LYS:HE3	1.58	1.19
41:BG:68:PRO:HA	41:BG:92:VAL:HG12	1.25	1.19
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.23	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:131:ALA:HB3	39:BE:134:ILE:HD11	1.24	1.18
35:DA:2012:G:H4'	55:DW:96:ILE:HD11	1.25	1.17
37:BC:118:PRO:HA	37:BC:121:MET:CG	1.73	1.17
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.20	1.17
42:DH:98:LEU:HB2	42:DH:125:VAL:HG21	1.21	1.16
35:BA:2473:U:H3'	35:BA:2474:C:H5''	1.22	1.16
1:CA:509:A:H5'	1:CA:510:A:OP2	1.45	1.16
1:CA:979:C:H3'	1:CA:980:C:H5''	1.18	1.15
35:BA:1378:A:O2'	35:BA:1379:A:H5''	1.45	1.15
1:CA:1489:G:H2'	1:CA:1490:C:H5''	1.26	1.15
24:CY:670:VAL:HG23	24:CY:671:MET:H	1.07	1.15
1:AA:509:A:H5'	1:AA:510:A:OP2	1.43	1.15
35:DA:1043:C:H2'	35:DA:1044:G:H5''	1.27	1.14
61:CY:702:FUA:H5	61:CY:702:FUA:H202	1.29	1.14
35:BA:2012:G:H4'	55:BW:96:ILE:HD11	1.24	1.14
37:BC:118:PRO:HA	37:BC:121:MET:HG2	1.29	1.14
23:AX:13:A:H3'	23:AX:14:A:H5''	1.30	1.14
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.30	1.13
35:BA:612:C:H2'	35:BA:613:G:H5''	1.22	1.13
39:DE:131:ALA:HB3	39:DE:134:ILE:HD11	1.23	1.12
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.01	1.12
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.23	1.12
35:DA:2473:U:H3'	35:DA:2474:C:H5''	1.21	1.12
41:BG:112:PRO:O	41:BG:113:ARG:HA	1.49	1.12
22:AV:17:C:H5''	22:AV:17(A):U:H6	1.08	1.12
24:AY:85:PRO:HA	24:AY:94:VAL:HG22	1.29	1.12
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.29	1.12
35:BA:903:C:H2'	35:BA:904:C:H5''	1.29	1.12
23:CX:13:A:H3'	23:CX:14:A:C5'	1.80	1.12
35:DA:903:C:H2'	35:DA:904:C:H5''	1.30	1.12
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.26	1.12
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.31	1.12
35:DA:996:A:H4'	53:DU:92:ARG:HE	1.02	1.11
35:DA:1378:A:O2'	35:DA:1379:A:H5''	1.48	1.11
35:DA:211:A:H2'	35:DA:212:G:H5''	1.32	1.11
24:AY:281:PRO:HB2	24:AY:286:ILE:HD11	1.33	1.11
40:BF:53:THR:HG22	40:BF:56:GLU:HG3	1.27	1.11
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.14	1.11
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.33	1.11
50:BR:99:LYS:HD3	50:BR:99:LYS:H	1.10	1.11
41:BG:77:ILE:HG22	41:BG:80:PHE:H	0.96	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.34	1.10
22:AW:14:A:H2'	22:AW:15:G:H5''	1.32	1.10
35:BA:996:A:H4'	53:BU:92:ARG:HE	1.03	1.10
46:BN:9:VAL:HG11	46:BN:39:ARG:HH22	1.09	1.10
35:DA:612:C:H2'	35:DA:613:G:H5''	1.21	1.10
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.30	1.09
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.29	1.09
38:DD:263:ARG:HB2	38:DD:263:ARG:HH11	0.96	1.09
40:DF:53:THR:HG22	40:DF:56:GLU:HG3	1.30	1.09
35:BA:1043:C:H2'	35:BA:1044:G:H5''	1.27	1.09
1:CA:793:U:H3'	1:CA:794:A:H5''	1.35	1.09
61:AY:702:FUA:H202	61:AY:702:FUA:H5	1.29	1.09
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.33	1.09
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.32	1.09
42:DH:157:TYR:CE1	42:DH:171:LEU:CD2	2.30	1.09
35:BA:2133:G:H2'	35:BA:2157:G:H22	1.18	1.09
35:DA:925:C:H2'	35:DA:926:A:H5''	1.34	1.09
38:DD:35:LYS:HZ3	38:DD:36:PRO:HD3	1.14	1.09
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.14	1.08
1:AA:979:C:H3'	1:AA:980:C:H5''	1.18	1.08
35:BA:1845:G:H2'	35:BA:1846:G:H5''	1.33	1.08
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.00	1.08
24:AY:490:PRO:HG3	24:AY:516:PRO:HD2	1.35	1.08
35:DA:2133:G:H2'	35:DA:2157:G:H22	1.18	1.08
25:D0:11:ARG:HB2	25:D0:11:ARG:HH11	1.16	1.08
31:B6:5:VAL:HG23	35:BA:2283:C:H5'	1.33	1.08
40:BF:154:VAL:HG22	40:BF:191:ARG:HB3	1.33	1.08
46:DN:9:VAL:HG11	46:DN:39:ARG:HH22	1.10	1.08
22:AV:17:C:H5''	22:AV:17(A):U:C6	1.89	1.08
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.14	1.08
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.28	1.08
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.15	1.08
41:BG:63:ILE:HA	41:BG:143:GLU:HG3	1.36	1.07
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.36	1.07
38:BD:263:ARG:HB2	38:BD:263:ARG:HH11	0.93	1.07
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.19	1.07
24:AY:157:LEU:H	24:AY:157:LEU:HD23	1.12	1.07
50:DR:99:LYS:HD3	50:DR:99:LYS:H	1.10	1.07
38:BD:35:LYS:HZ3	38:BD:36:PRO:HD3	1.17	1.07
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.32	1.07
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.34	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HE2	1.35	1.07
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.18	1.07
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.17	1.07
35:BA:272(I):U:O4	35:BA:363(A):A:N1	1.87	1.07
38:BD:263:ARG:NH1	38:BD:263:ARG:HB2	1.68	1.06
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.37	1.06
35:BA:925:C:H2'	35:BA:926:A:H5''	1.35	1.06
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.31	1.06
35:BA:965:C:H5'	35:BA:2273:A:H1'	1.38	1.06
42:DH:12:PRO:HD3	42:DH:49:VAL:HG12	1.37	1.06
35:DA:272(I):U:O4	35:DA:363(A):A:N1	1.86	1.06
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.35	1.06
58:BZ:69:THR:HG22	58:BZ:90:VAL:HA	1.36	1.06
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.36	1.06
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.95	1.06
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.16	1.06
35:DA:1845:G:H2'	35:DA:1846:G:H5''	1.36	1.06
38:DD:263:ARG:HB2	38:DD:263:ARG:NH1	1.70	1.05
48:BP:55:ARG:HG2	48:BP:56:SER:H	1.17	1.05
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.31	1.05
57:BY:28:LYS:HB3	57:BY:37:VAL:HB	1.31	1.05
35:BA:1503:U:H2'	35:BA:1504:C:H6	1.15	1.05
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.20	1.05
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.17	1.05
57:DY:28:LYS:HB3	57:DY:37:VAL:HB	1.34	1.05
42:BH:12:PRO:HD3	42:BH:49:VAL:HG12	1.37	1.05
24:CY:409:ILE:HG22	24:CY:459:LEU:HD21	1.37	1.05
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.85	1.05
27:B2:69:ARG:HH22	35:BA:111:A:H4'	1.20	1.05
31:D6:5:VAL:HG23	35:DA:2283:C:H5'	1.35	1.05
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	1.38	1.05
42:BH:157:TYR:CE1	42:BH:171:LEU:CD2	2.30	1.05
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.37	1.05
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.39	1.05
40:DF:154:VAL:HG22	40:DF:191:ARG:HB3	1.35	1.05
13:CM:27:LYS:HE2	13:CM:31:LYS:HE3	1.38	1.05
1:AA:793:U:H3'	1:AA:794:A:H5''	1.36	1.05
41:DG:46:ALA:HB2	41:DG:88:ILE:HB	1.36	1.05
41:DG:62:LEU:HD12	41:DG:62:LEU:H	1.22	1.05
35:BA:211:A:H2'	35:BA:212:G:H5''	1.33	1.05
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG23	1.36	1.05
35:DA:1899:G:N2	35:DA:1902:C:H41	1.54	1.04
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.32	1.04
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.20	1.04
24:CY:92:ILE:HG23	24:CY:93:GLU:H	1.22	1.04
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.87	1.04
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.35	1.04
48:DP:55:ARG:HG2	48:DP:56:SER:H	1.22	1.04
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.20	1.04
35:DA:965:C:H5'	35:DA:2273:A:H1'	1.40	1.04
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.39	1.04
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.19	1.04
38:DD:65:ILE:HG22	38:DD:104:TYR:HB3	1.40	1.04
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.21	1.04
52:BT:115:ARG:HB3	52:BT:115:ARG:HH11	1.23	1.04
23:CX:13:A:C3'	23:CX:14:A:H5''	1.87	1.03
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.40	1.03
22:AV:21:A:H61	22:AV:46:G:H2'	1.20	1.03
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.34	1.03
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.37	1.03
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.18	1.03
24:AY:662:LYS:HZ1	42:BH:175:LYS:HE3	1.07	1.03
38:BD:65:ILE:HG22	38:BD:104:TYR:HB3	1.39	1.03
35:DA:2579:C:H4'	39:DE:134:ILE:HG12	1.40	1.03
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.40	1.03
41:BG:77:ILE:HG22	41:BG:80:PHE:N	1.73	1.03
35:BA:1899:G:N2	35:BA:1902:C:H41	1.55	1.03
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.18	1.03
44:BK:115:LEU:HD22	44:BK:126:MET:HE2	1.41	1.03
13:AM:27:LYS:HE2	13:AM:31:LYS:HE3	1.40	1.03
3:AC:16:ARG:HH11	3:AC:16:ARG:HB2	1.23	1.03
30:D5:44:THR:HG21	50:DR:101:ALA:HB2	1.41	1.03
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.37	1.03
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.40	1.03
35:DA:1452:A:H3'	35:DA:1453:U:H5''	1.36	1.03
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.17	1.03
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.17	1.03
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.39	1.03
35:DA:1503:U:H2'	35:DA:1504:C:H6	1.14	1.02
26:D1:44:PRO:HG2	26:D1:46:LEU:HD21	1.41	1.02
24:CY:17:ILE:O	24:CY:85:PRO:HG2	1.60	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:423:LYS:HB3	24:AY:472:VAL:HG22	1.41	1.02
40:DF:192:LEU:HD21	40:DF:194:MET:HG3	1.41	1.02
41:DG:38:VAL:HG23	41:DG:158:ALA:HB3	1.38	1.02
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.98	1.02
44:BK:19:PRO:HB3	44:BK:34:ILE:HD12	1.40	1.02
52:DT:115:ARG:HH11	52:DT:115:ARG:HB3	1.24	1.02
44:DK:19:PRO:HB3	44:DK:34:ILE:HD12	1.41	1.02
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.39	1.02
24:CY:136:ALA:HB3	24:CY:260:LEU:HB3	1.37	1.02
37:DC:128:LEU:HD21	37:DC:132:LEU:HD11	1.41	1.02
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.43	1.01
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.22	1.01
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.24	1.01
48:BP:41:ARG:HA	48:BP:41:ARG:HH21	1.25	1.01
30:B5:44:THR:HG21	50:BR:101:ALA:HB2	1.42	1.01
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.42	1.01
58:BZ:28:MET:HB3	58:BZ:88:PHE:HB2	1.42	1.01
24:CY:84:THR:H	24:CY:85:PRO:HD3	1.25	1.01
48:DP:41:ARG:HH21	48:DP:41:ARG:HA	1.25	1.01
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.42	1.01
22:CV:47:U:H3'	22:CV:48:C:H5'	1.38	1.01
52:DT:28:VAL:HG21	52:DT:46:GLU:HG3	1.39	1.01
13:CM:124:PRO:HG2	24:CY:574:GLU:H	1.25	1.01
41:BG:133:LEU:HD11	41:BG:157:ILE:HD12	1.42	1.01
1:AA:979:C:C3'	1:AA:980:C:H5''	1.90	1.00
24:CY:33:LEU:HD23	24:CY:360:ALA:HB2	1.40	1.00
35:BA:2287:A:H62	35:BA:2344:U:H3	1.01	1.00
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.26	1.00
35:DA:2287:A:H62	35:DA:2344:U:H3	1.01	1.00
44:BK:4:VAL:HG12	44:BK:5:VAL:H	1.26	1.00
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.26	1.00
35:DA:154(A):C:H5''	35:DA:155:U:H5''	1.44	1.00
35:BA:1452:A:H3'	35:BA:1453:U:H5''	1.38	1.00
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.43	1.00
1:AA:1128:C:H2'	1:AA:1129:C:H5''	1.42	1.00
2:AB:168:THR:HG23	2:AB:192:SER:HB3	1.38	1.00
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.42	1.00
44:DK:115:LEU:HD22	44:DK:126:MET:HE2	1.40	1.00
1:CA:1489:G:C2'	1:CA:1490:C:H5''	1.91	1.00
41:DG:68:PRO:HA	41:DG:92:VAL:CG1	1.92	1.00
24:AY:546:ILE:HG23	24:AY:590:ILE:HG13	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:168:THR:HG23	2:CB:192:SER:HB3	1.40	1.00
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.62	1.00
35:BA:142:A:H1'	35:BA:1408:C:H1'	1.44	0.99
1:CA:979:C:C3'	1:CA:980:C:H5''	1.92	0.99
24:CY:153:MET:HA	24:CY:157:LEU:HD21	1.43	0.99
25:D0:27:GLU:CD	25:D0:27:GLU:H	1.64	0.99
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.19	0.99
38:BD:35:LYS:HD2	38:BD:36:PRO:N	1.77	0.99
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.24	0.99
31:B6:48:VAL:HG23	31:B6:49:HIS:H	1.27	0.99
52:BT:38:ASN:C	52:BT:38:ASN:HD22	1.65	0.99
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.44	0.99
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.42	0.99
46:DN:54:VAL:HB	46:DN:122:VAL:HG22	1.43	0.99
25:B0:27:GLU:H	25:B0:27:GLU:CD	1.64	0.99
40:DF:110:LEU:HD12	40:DF:206:ILE:HD11	1.43	0.99
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	1.78	0.99
58:DZ:115:GLY:H	58:DZ:177:PRO:HG3	1.25	0.99
35:DA:2286:A:H4'	35:DA:2287:A:H5'	1.45	0.99
52:DT:38:ASN:C	52:DT:38:ASN:HD22	1.65	0.99
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.27	0.99
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	1.41	0.99
35:BA:2579:C:H4'	39:BE:134:ILE:HG12	1.44	0.99
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.41	0.99
23:AX:13:A:C3'	23:AX:14:A:H5''	1.92	0.99
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.44	0.99
35:BA:1452:A:H3'	35:BA:1453:U:C5'	1.92	0.98
35:BA:272(G):C:H2'	35:BA:272(H):C:H5''	1.44	0.98
24:CY:546:ILE:HG23	24:CY:590:ILE:HG13	1.39	0.98
35:DA:1452:A:H3'	35:DA:1453:U:C5'	1.92	0.98
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.28	0.98
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.45	0.98
58:DZ:179:ASP:HB3	58:DZ:182:LYS:HE2	1.45	0.98
12:AL:83:VAL:HG11	12:AL:100:ILE:HD13	1.44	0.98
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.26	0.98
1:CA:975:A:H4'	1:CA:976:G:H5''	1.45	0.98
35:DA:272(J):C:H3'	35:DA:274:G:H5''	1.44	0.98
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.43	0.98
27:B2:3:LEU:HD22	27:B2:7:ARG:HH12	1.28	0.98
41:BG:59:GLU:HA	41:BG:62:LEU:HD13	1.43	0.98
35:DA:272(G):C:H2'	35:DA:272(H):C:H5''	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:110:LEU:HD12	40:BF:206:ILE:HD11	1.46	0.98
52:BT:28:VAL:HG21	52:BT:46:GLU:HG3	1.43	0.98
24:AY:35:TYR:OH	24:AY:266:ASN:HB3	1.64	0.98
24:CY:84:THR:HA	61:CY:702:FUA:H322	1.46	0.98
38:DD:34:VAL:HG23	38:DD:35:LYS:H	1.28	0.98
38:BD:32:SER:O	38:BD:36:PRO:HG3	1.64	0.98
35:DA:211:A:C2'	35:DA:212:G:H5''	1.93	0.97
58:BZ:166:SER:HB2	58:BZ:167:PRO:C	1.83	0.97
26:D1:76:ARG:HH22	26:D1:95:LEU:HD13	1.26	0.97
1:AA:975:A:H4'	1:AA:976:G:H5''	1.45	0.97
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.63	0.97
28:B3:31:LEU:HD13	28:B3:32:GLN:HG2	1.44	0.97
53:BU:20:LEU:H	53:BU:20:LEU:HD22	1.29	0.97
39:DE:38:THR:HG22	39:DE:40:GLU:H	1.25	0.97
35:DA:612:C:C2'	35:DA:613:G:H5''	1.94	0.97
35:BA:2262:U:H2'	35:BA:2263:C:H5'	1.46	0.97
44:DK:93:ARG:HB2	58:DZ:112:ARG:HE	1.25	0.97
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.46	0.97
35:DA:1803:A:O3'	38:DD:259:THR:HG21	1.64	0.97
24:AY:276:VAL:HA	24:AY:280:LEU:HD23	1.44	0.97
33:B8:33:ASN:H	33:B8:33:ASN:ND2	1.61	0.97
31:D6:48:VAL:HG23	31:D6:49:HIS:H	1.30	0.97
24:AY:428:LEU:HD13	24:AY:440:VAL:HG11	1.42	0.97
46:BN:48:MET:H	46:BN:48:MET:HE2	1.25	0.97
35:BA:154(A):C:H5''	35:BA:155:U:H5''	1.45	0.97
28:D3:31:LEU:HD13	28:D3:32:GLN:HG2	1.44	0.97
35:BA:2286:A:H4'	35:BA:2287:A:H5'	1.44	0.97
22:CW:21:U:O2'	35:DA:2112:G:H1'	1.64	0.97
35:BA:211:A:C2'	35:BA:212:G:H5''	1.94	0.97
35:BA:1814:G:H3'	35:BA:1815:A:H5''	1.46	0.97
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.28	0.97
24:AY:427:ALA:HB1	24:AY:466:LEU:HD11	1.44	0.97
22:AV:46:G:H4'	22:AV:47:U:H5	1.25	0.97
28:D3:17:LYS:HG2	35:DA:969:U:OP1	1.65	0.97
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.25	0.97
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.30	0.97
24:AY:84:THR:H	24:AY:85:PRO:HD2	1.27	0.96
35:DA:2523:G:H2'	35:DA:2524:G:H5''	1.44	0.96
39:DE:117:MET:HA	39:DE:122:PHE:H	1.30	0.96
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.26	0.96
27:D2:16:LEU:HB3	27:D2:20:GLU:HG2	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:686:U:HO2'	1:CA:687:A:H8	0.97	0.96
1:CA:1128:C:H2'	1:CA:1129:C:H5''	1.43	0.96
51:DS:15:ARG:HB3	51:DS:18:ILE:HD11	1.47	0.96
24:AY:409:ILE:HD11	24:AY:654:GLY:HA2	1.44	0.96
1:AA:129(A):G:O2'	1:AA:189(F):U:H2'	1.66	0.96
47:DO:17:ARG:HE	47:DO:47:ILE:HD11	1.30	0.96
35:DA:27:G:H22	35:DA:512:G:H2'	1.29	0.96
38:DD:32:SER:O	38:DD:36:PRO:HG3	1.66	0.96
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.46	0.96
39:BE:38:THR:HG22	39:BE:40:GLU:H	1.25	0.96
25:B0:7:LEU:HD12	49:BQ:85:LYS:HE2	1.47	0.96
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.44	0.96
44:DK:99:ILE:HG23	44:DK:103:GLN:HB2	1.47	0.96
40:DF:3:GLU:CA	40:DF:24:LEU:HG	1.95	0.96
24:AY:453:GLY:HA3	24:AY:459:LEU:HD11	1.46	0.96
35:BA:27:G:H22	35:BA:512:G:H2'	1.30	0.96
35:DA:240:G:H3'	35:DA:241:A:H5''	1.45	0.96
51:DS:28:VAL:HG12	51:DS:29:PHE:H	1.31	0.96
35:BA:612:C:C2'	35:BA:613:G:H5''	1.95	0.96
38:DD:35:LYS:HD2	38:DD:36:PRO:N	1.81	0.96
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.13	0.96
35:BA:272(J):C:H3'	35:BA:274:G:H5''	1.45	0.95
35:DA:2584:U:H2'	35:DA:2585:U:H5'	1.48	0.95
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.30	0.95
28:B3:16:PRO:HB2	28:B3:18:ASP:OD1	1.65	0.95
22:CV:17:C:H5''	22:CV:17(A):U:H6	1.30	0.95
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.45	0.95
2:CB:118:LEU:HB3	2:CB:142:LEU:HD12	1.47	0.95
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.81	0.95
48:BP:38:GLN:HG3	48:BP:39:LYS:H	1.31	0.95
38:BD:34:VAL:HG23	38:BD:35:LYS:H	1.30	0.95
41:BG:135:LEU:HD11	41:BG:155:MET:HG2	1.46	0.95
33:D8:61:LEU:HD12	33:D8:62:LEU:H	1.31	0.95
35:DA:142:A:H1'	35:DA:1408:C:H1'	1.45	0.95
46:BN:46:VAL:HG13	46:BN:47:ALA:H	1.30	0.95
1:CA:1452:C:H1'	1:CA:1456:G:N2	1.81	0.95
26:B1:86:SER:HB3	26:B1:89:GLU:HB2	1.46	0.95
26:B1:81:LYS:HE2	35:BA:271(H):G:H4'	1.48	0.95
26:D1:46:LEU:HD22	26:D1:46:LEU:H	1.30	0.95
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.80	0.95
46:DN:48:MET:H	46:DN:48:MET:HE2	1.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.48	0.95
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.47	0.95
46:BN:54:VAL:HB	46:BN:122:VAL:HG22	1.46	0.95
24:CY:388:THR:HG21	24:CY:399:LEU:HD13	1.49	0.95
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.67	0.95
35:BA:2584:U:H2'	35:BA:2585:U:H5'	1.47	0.95
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.30	0.95
48:DP:38:GLN:HG3	48:DP:39:LYS:H	1.27	0.95
27:D2:69:ARG:HH22	35:DA:111:A:H5''	1.32	0.95
1:AA:1489:G:H2'	1:AA:1490:C:H5''	1.47	0.95
28:D3:16:PRO:HB2	28:D3:18:ASP:OD1	1.67	0.95
35:DA:2572:A:H5'	35:DA:2574:G:H4'	1.49	0.95
1:AA:80:G:H3'	1:AA:81:U:H5'	1.48	0.95
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.82	0.95
48:DP:85:LEU:HD12	48:DP:120:ALA:HB2	1.49	0.95
1:AA:1502:A:H2	1:AA:1505:G:H1	0.98	0.95
40:BF:192:LEU:HD21	40:BF:194:MET:HG3	1.44	0.94
40:BF:34:TRP:HB2	48:BP:10:PRO:HB2	1.46	0.94
38:DD:35:LYS:HG2	38:DD:63:ARG:HA	1.49	0.94
53:DU:20:LEU:H	53:DU:20:LEU:HD22	1.31	0.94
50:BR:99:LYS:HD3	50:BR:99:LYS:N	1.83	0.94
50:DR:99:LYS:HD3	50:DR:99:LYS:N	1.82	0.94
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	1.49	0.94
35:BA:1803:A:O3'	38:BD:259:THR:HG21	1.67	0.94
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.32	0.94
35:DA:813:U:H2'	35:DA:814:C:C6	2.02	0.94
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.02	0.94
33:D8:33:ASN:H	33:D8:33:ASN:HD22	0.97	0.94
44:DK:106:GLU:HA	44:DK:109:LYS:HD3	1.50	0.94
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.29	0.94
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.32	0.94
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.45	0.94
35:DA:2133:G:H2'	35:DA:2157:G:N2	1.83	0.94
1:AA:1128:C:C2'	1:AA:1129:C:H5''	1.98	0.94
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.63	0.94
11:AK:54:ARG:O	11:AK:57:THR:HG22	1.68	0.94
1:CA:129(A):G:O2'	1:CA:189(F):U:H2'	1.67	0.94
35:BA:1038:C:H3'	35:BA:1039:G:H5''	1.50	0.94
35:BA:240:G:H3'	35:BA:241:A:H5''	1.49	0.94
35:DA:1038:C:H3'	35:DA:1039:G:H5''	1.49	0.94
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:85:LEU:HD12	48:BP:120:ALA:HB2	1.48	0.94
36:BB:7:G:H2'	36:BB:8:U:H5"	1.49	0.94
48:DP:7:ARG:HB3	48:DP:8:PRO:HD3	1.50	0.94
56:DX:12:VAL:HG23	56:DX:13:LEU:N	1.81	0.94
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.67	0.94
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.31	0.94
20:AT:13:LEU:HD12	20:AT:13:LEU:H	1.33	0.94
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.68	0.94
26:B1:46:LEU:HB3	26:B1:63:ALA:HA	1.46	0.94
58:DZ:7:ALA:HB3	58:DZ:61:LEU:HD23	1.50	0.93
51:BS:28:VAL:HG12	51:BS:29:PHE:H	1.31	0.93
35:DA:1814:G:H3'	35:DA:1815:A:H5"	1.48	0.93
30:D5:56:LYS:HG3	30:D5:57:VAL:H	1.33	0.93
1:AA:686:U:HO2'	1:AA:687:A:H8	0.98	0.93
44:BK:6:ALA:HB3	44:BK:59:ILE:HG22	1.47	0.93
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.68	0.93
1:CA:1128:C:C2'	1:CA:1129:C:H5"	1.98	0.93
58:DZ:29:TYR:HB3	58:DZ:34:ASN:HB2	1.50	0.93
41:DG:60:LEU:HA	41:DG:63:ILE:HD11	1.50	0.93
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.48	0.93
46:DN:46:VAL:HG13	46:DN:47:ALA:H	1.31	0.93
35:DA:871:U:OP1	49:DQ:5:ARG:HG3	1.69	0.93
26:D1:23:LYS:HE2	26:D1:28:GLY:HA3	1.49	0.93
44:BK:99:ILE:HG23	44:BK:103:GLN:HB2	1.48	0.93
38:BD:35:LYS:HG2	38:BD:63:ARG:HA	1.49	0.93
51:BS:15:ARG:HB3	51:BS:18:ILE:HD11	1.50	0.93
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.34	0.93
56:DX:35:THR:HG22	56:DX:37:THR:H	1.33	0.93
35:DA:2756:U:H4'	35:DA:2757:A:OP1	1.68	0.93
3:AC:20:SER:HB3	3:AC:40:ARG:HH22	1.33	0.93
40:BF:3:GLU:CA	40:BF:24:LEU:HG	1.96	0.93
35:BA:2133:G:H2'	35:BA:2157:G:N2	1.82	0.93
46:BN:45:ASN:HD22	46:BN:45:ASN:H	1.12	0.93
41:DG:133:LEU:HD12	41:DG:157:ILE:HB	1.49	0.93
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.49	0.93
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.69	0.93
48:BP:55:ARG:HG2	48:BP:56:SER:N	1.79	0.93
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.33	0.93
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.68	0.93
12:CL:83:VAL:HG11	12:CL:100:ILE:HD13	1.47	0.93
35:DA:1899:G:H22	35:DA:1902:C:N4	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.34	0.93
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	1.83	0.93
38:BD:263:ARG:CB	38:BD:263:ARG:HH11	1.80	0.93
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	1.84	0.93
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.51	0.93
44:BK:106:GLU:HA	44:BK:109:LYS:HD3	1.49	0.93
3:CC:79:ARG:HB2	3:CC:79:ARG:HH11	1.32	0.93
33:D8:56:GLU:HA	33:D8:59:LYS:NZ	1.83	0.93
24:CY:157:LEU:HD23	24:CY:157:LEU:H	1.32	0.93
35:BA:2756:U:H4'	35:BA:2757:A:OP1	1.66	0.93
19:AS:42:PRO:HB3	29:B4:50:VAL:HG21	1.51	0.93
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.50	0.93
39:BE:111:ARG:HA	50:BR:2:ARG:HB3	1.50	0.93
28:B3:17:LYS:HG2	35:BA:969:U:OP1	1.68	0.93
40:DF:34:TRP:HB2	48:DP:10:PRO:HB2	1.49	0.92
35:DA:1845:G:C2'	35:DA:1846:G:H5''	1.99	0.92
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.04	0.92
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.82	0.92
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.51	0.92
35:DA:1494:A:O2'	35:DA:1495:A:H5''	1.67	0.92
48:BP:7:ARG:HB3	48:BP:8:PRO:HD3	1.50	0.92
35:BA:1899:G:H22	35:BA:1902:C:N4	1.67	0.92
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.66	0.92
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.33	0.92
56:BX:12:VAL:HG23	56:BX:13:LEU:N	1.81	0.92
24:CY:632:LEU:HG	24:CY:645:ALA:HA	1.51	0.92
35:BA:2572:A:H5'	35:BA:2574:G:H4'	1.47	0.92
18:AR:29:PHE:HD2	18:AR:29:PHE:H	1.18	0.92
28:D3:8:LEU:HD22	28:D3:31:LEU:HD23	1.50	0.92
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.52	0.92
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.31	0.92
35:DA:358:U:H2'	35:DA:359:A:H8	1.35	0.92
35:BA:903:C:C2'	35:BA:904:C:H5''	1.99	0.92
39:DE:107:THR:O	39:DE:190:GLY:HA2	1.67	0.92
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.05	0.92
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.50	0.92
1:AA:1054:C:O2'	1:AA:1055:A:H5''	1.70	0.92
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	1.83	0.92
56:BX:12:VAL:CG2	56:BX:13:LEU:H	1.83	0.92
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.31	0.92
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:415:PRO:HA	24:AY:474:ALA:HB2	1.50	0.92
35:BA:1845:G:C2'	35:BA:1846:G:H5''	1.99	0.92
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.92
39:DE:47:VAL:HG12	39:DE:48:GLN:H	1.32	0.92
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.33	0.92
25:D0:7:LEU:HD12	49:DQ:85:LYS:HE2	1.47	0.92
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.52	0.92
35:BA:1494:A:O2'	35:BA:1495:A:H5''	1.69	0.92
35:DA:903:C:C2'	35:DA:904:C:H5''	1.99	0.92
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG23	1.49	0.92
26:D1:76:ARG:HH12	26:D1:95:LEU:HD22	1.33	0.92
39:BE:117:MET:HA	39:BE:122:PHE:H	1.35	0.92
35:DA:2262:U:H2'	35:DA:2263:C:H5'	1.49	0.92
39:BE:47:VAL:HG12	39:BE:48:GLN:H	1.33	0.92
35:BA:1142(A):A:C2'	35:BA:1143:A:H5''	1.99	0.92
39:BE:33:VAL:HG12	39:BE:90:THR:H	1.35	0.92
47:BO:17:ARG:HE	47:BO:47:ILE:HD11	1.30	0.92
3:AC:79:ARG:HB2	3:AC:79:ARG:HH11	1.32	0.92
1:AA:1452:C:H1'	1:AA:1456:G:N2	1.84	0.91
11:CK:54:ARG:O	11:CK:57:THR:HG22	1.68	0.91
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.69	0.91
41:DG:121:ASN:HB3	41:DG:124:SER:HB2	1.52	0.91
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.33	0.91
35:BA:1043:C:C2'	35:BA:1044:G:H5''	1.99	0.91
33:B8:33:ASN:H	33:B8:33:ASN:HD22	0.99	0.91
33:B8:56:GLU:HA	33:B8:59:LYS:NZ	1.83	0.91
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.35	0.91
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.67	0.91
35:BA:2296:U:H4'	35:BA:2297:C:OP1	1.70	0.91
35:DA:1203:G:H4'	48:DP:7:ARG:HD2	1.49	0.91
54:DV:51:VAL:HG12	54:DV:52:VAL:H	1.34	0.91
24:AY:9:LEU:HD21	24:AY:284:LEU:HB2	1.49	0.91
54:BV:51:VAL:HG12	54:BV:52:VAL:H	1.34	0.91
36:DB:7:G:H2'	36:DB:8:U:H5''	1.52	0.91
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.52	0.91
35:DA:2138:C:H2'	35:DA:2139:C:H6	1.33	0.91
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.05	0.91
35:BA:2712:U:O2'	35:BA:2712(A):A:H8	1.53	0.91
1:CA:80:G:H3'	1:CA:81:U:H5'	1.48	0.91
31:D6:8:LYS:HE3	31:D6:25:LYS:HD3	1.50	0.91
35:BA:1020:A:N1	35:BA:1141:U:H2'	1.86	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:76:ARG:HH12	26:B1:95:LEU:HD22	1.33	0.91
52:DT:23:ARG:HG2	52:DT:120:ARG:HH12	1.33	0.91
24:AY:513:LYS:HB2	24:AY:566:THR:HB	1.52	0.91
24:AY:238:THR:HG22	24:AY:241:GLU:HG2	1.50	0.91
53:DU:90:VAL:HG21	54:DV:47:VAL:HG21	1.50	0.91
44:DK:77:LEU:HD12	44:DK:107:ILE:HG23	1.52	0.91
10:AJ:55:LYS:H	10:AJ:55:LYS:CE	1.83	0.91
42:BH:157:TYR:HE1	42:BH:171:LEU:HD21	1.34	0.91
56:DX:12:VAL:CG2	56:DX:13:LEU:H	1.82	0.91
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.06	0.91
35:DA:2296:U:H4'	35:DA:2297:C:OP1	1.68	0.91
35:BA:2138:C:H2'	35:BA:2139:C:H6	1.33	0.91
56:BX:35:THR:HG22	56:BX:37:THR:H	1.36	0.91
35:DA:1142(A):A:C2'	35:DA:1143:A:H5''	2.00	0.91
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.52	0.91
1:AA:483:C:H3'	1:AA:484:G:H5''	1.52	0.91
35:DA:2110:G:O2'	35:DA:2120:G:H5'	1.71	0.91
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.05	0.91
52:DT:23:ARG:O	52:DT:25:GLY:N	2.04	0.91
41:DG:34:LEU:HD22	41:DG:99:MET:HE3	1.52	0.91
42:DH:157:TYR:HE1	42:DH:171:LEU:HD21	1.35	0.91
38:DD:263:ARG:CB	38:DD:263:ARG:HH11	1.82	0.91
44:BK:77:LEU:HD12	44:BK:107:ILE:HG23	1.53	0.91
31:B6:8:LYS:HE3	31:B6:25:LYS:HD3	1.51	0.91
35:DA:1452:A:C3'	35:DA:1453:U:H5''	2.01	0.91
24:CY:181:LEU:HD21	24:CY:243:VAL:HG22	1.51	0.91
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.71	0.91
58:DZ:20:ARG:HH11	58:DZ:20:ARG:HB2	1.33	0.91
30:B5:56:LYS:HG3	30:B5:57:VAL:H	1.33	0.91
39:BE:107:THR:O	39:BE:190:GLY:HA2	1.71	0.91
35:DA:1846:G:H8	35:DA:1846:G:H5'	1.33	0.90
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	1.85	0.90
52:BT:23:ARG:HG2	52:BT:120:ARG:HH12	1.34	0.90
35:BA:871:U:OP1	49:BQ:5:ARG:HG3	1.70	0.90
27:B2:41:ILE:HD11	27:B2:44:LEU:HD12	1.54	0.90
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.72	0.90
40:DF:170:LEU:HB2	40:DF:173:VAL:HB	1.52	0.90
48:DP:39:LYS:HE2	48:DP:40:SER:H	1.37	0.90
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.71	0.90
35:DA:2712:U:O2'	35:DA:2712(A):A:H8	1.54	0.90
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.50	0.90
37:DC:128:LEU:HD21	37:DC:132:LEU:CD1	2.00	0.90
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.86	0.90
35:BA:1846:G:H5'	35:BA:1846:G:H8	1.34	0.90
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.52	0.90
19:AS:41:VAL:HG21	19:AS:44:MET:HB2	1.53	0.90
53:BU:90:VAL:HG21	54:BV:47:VAL:HG21	1.49	0.90
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.52	0.90
1:AA:1502:A:H2	1:AA:1505:G:N1	1.70	0.90
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	1.51	0.90
35:DA:2189:U:H2'	35:DA:2190:G:H5''	1.54	0.90
50:DR:100:LEU:HD22	50:DR:100:LEU:H	1.37	0.90
1:CA:979:C:H3'	1:CA:980:C:C5'	2.01	0.90
26:B1:45:ASN:HB2	35:BA:2230:G:H1'	1.54	0.90
35:DA:1020:A:N1	35:DA:1141:U:H2'	1.86	0.90
35:BA:654(M):C:HO2'	35:BA:654(N):G:H8	0.94	0.90
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.72	0.90
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.35	0.90
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.72	0.90
35:DA:1070:A:H5'	35:DA:1072:C:OP2	1.71	0.90
35:DA:996:A:H4'	53:DU:92:ARG:NE	1.87	0.90
1:AA:979:C:H3'	1:AA:980:C:C5'	2.00	0.90
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.53	0.90
35:DA:1043:C:C2'	35:DA:1044:G:H5''	2.00	0.90
24:AY:113:GLY:C	24:AY:115:GLU:H	1.75	0.90
35:BA:2523:G:C2'	35:BA:2524:G:H5''	2.02	0.90
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.35	0.90
44:BK:7:VAL:HG13	44:BK:7:VAL:O	1.72	0.90
35:BA:1203:G:H4'	48:BP:7:ARG:HD2	1.51	0.90
1:AA:720:C:H3'	1:AA:721:G:H5''	1.51	0.90
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.34	0.90
35:DA:2723:C:H5''	50:DR:2:ARG:HH11	1.36	0.90
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.54	0.90
24:CY:670:VAL:HG23	24:CY:671:MET:N	1.82	0.89
35:DA:1899:G:N2	35:DA:1902:C:N4	2.18	0.89
39:DE:38:THR:HB	39:DE:41:LYS:HG2	1.54	0.89
22:CW:51:U:H3	22:CW:65:G:H1	1.16	0.89
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.72	0.89
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.50	0.89
52:BT:125:ARG:HH11	52:BT:125:ARG:HA	1.34	0.89
24:AY:84:THR:H	24:AY:85:PRO:CD	1.84	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1899:G:N2	35:BA:1902:C:N4	2.19	0.89
1:CA:720:C:H3'	1:CA:721:G:H5''	1.55	0.89
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	1.53	0.89
37:BC:118:PRO:HA	37:BC:121:MET:HG3	1.50	0.89
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.72	0.89
35:DA:2308:G:N7	35:DA:2310:A:H5'	1.87	0.89
35:BA:358:U:H2'	35:BA:359:A:H8	1.36	0.89
38:BD:183:ARG:HG2	38:BD:183:ARG:HH11	1.37	0.89
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.70	0.89
20:CT:13:LEU:H	20:CT:13:LEU:HD12	1.36	0.89
18:CR:29:PHE:H	18:CR:29:PHE:HD2	1.18	0.89
33:D8:33:ASN:H	33:D8:33:ASN:ND2	1.60	0.89
35:BA:813:U:H2'	35:BA:814:C:C6	2.07	0.89
39:DE:111:ARG:HA	50:DR:2:ARG:HB3	1.52	0.89
35:BA:192:C:H2'	35:BA:193:U:H5'	1.55	0.89
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.52	0.89
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	1.54	0.89
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.52	0.89
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.70	0.89
55:DW:5:ALA:HB2	55:DW:54:ALA:HB2	1.54	0.89
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.38	0.89
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.54	0.89
35:BA:2308:G:N7	35:BA:2310:A:H5'	1.88	0.89
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.71	0.89
37:BC:118:PRO:CA	37:BC:121:MET:HG2	2.03	0.89
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	1.87	0.89
24:AY:355:LEU:HD12	24:AY:369:LEU:HD13	1.52	0.89
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.52	0.89
52:DT:125:ARG:HA	52:DT:125:ARG:HH11	1.37	0.89
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.08	0.89
41:DG:138:GLN:OE1	41:DG:153:ARG:HG2	1.72	0.89
22:AV:20:U:H3'	22:AV:21:A:H5'	1.55	0.89
28:B3:8:LEU:HD22	28:B3:31:LEU:HD23	1.53	0.89
35:DA:2523:G:C2'	35:DA:2524:G:H5''	2.03	0.89
2:CB:223:ILE:HG12	2:CB:226:ARG:NH2	1.88	0.89
27:D2:4:SER:HA	27:D2:7:ARG:HH12	1.35	0.89
35:DA:1876:A:H2'	35:DA:1877:A:H8	1.36	0.89
35:BA:2110:G:O2'	35:BA:2120:G:H5'	1.71	0.89
52:BT:85:LYS:NZ	52:BT:85:LYS:HB3	1.87	0.89
35:BA:1876:A:H2'	35:BA:1877:A:H8	1.36	0.89
40:BF:170:LEU:HB2	40:BF:173:VAL:HB	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:201:ILE:H	24:CY:201:ILE:HD12	1.37	0.88
49:DQ:56:ARG:HH21	58:DZ:180:VAL:HG21	1.37	0.88
10:CJ:55:LYS:CE	10:CJ:55:LYS:H	1.85	0.88
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.55	0.88
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.34	0.88
2:AB:223:ILE:HG12	2:AB:226:ARG:NH2	1.88	0.88
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.36	0.88
42:BH:157:TYR:CD1	42:BH:171:LEU:HD22	2.08	0.88
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.52	0.88
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.16	0.88
35:BA:2189:U:H2'	35:BA:2190:G:H5''	1.55	0.88
47:BO:69:ILE:HD13	47:BO:77:ILE:HG23	1.52	0.88
5:CE:9:LYS:HB2	5:CE:112:LEU:HD11	1.55	0.88
58:BZ:23:LYS:HD3	58:BZ:38:TYR:HE1	1.36	0.88
46:DN:45:ASN:HD22	46:DN:45:ASN:H	1.15	0.88
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.54	0.88
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.54	0.88
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.55	0.88
22:CV:49:G:H1	22:CV:65:C:H42	1.18	0.88
42:DH:157:TYR:CD1	42:DH:171:LEU:HD22	2.07	0.88
23:CX:13:A:H3'	23:CX:14:A:H5''	0.92	0.88
33:B8:13:ARG:NH1	48:BP:59:LEU:HG	1.89	0.88
39:DE:33:VAL:HG12	39:DE:90:THR:H	1.34	0.88
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.08	0.88
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.37	0.88
19:CS:41:VAL:HG21	19:CS:44:MET:HB2	1.55	0.88
22:CV:39:C:H2'	22:CV:40:C:H6	1.39	0.88
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.88	0.88
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.72	0.88
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.39	0.88
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.37	0.88
1:AA:80:G:H3'	1:AA:81:U:C5'	2.03	0.88
48:BP:85:LEU:HD23	48:BP:85:LEU:H	1.38	0.88
35:BA:2723:C:H5''	50:BR:2:ARG:HH11	1.37	0.88
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.36	0.88
35:BA:1947:C:C2'	35:BA:1948:G:H5''	2.04	0.88
13:AM:69:GLU:HG2	29:B4:43:TYR:OH	1.74	0.88
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.53	0.88
31:B6:10:LEU:CD2	31:B6:10:LEU:H	1.86	0.88
22:AW:31:G:H2'	22:AW:32:G:H8	1.36	0.88
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.03	0.88
27:B2:3:LEU:HD22	27:B2:7:ARG:NH1	1.88	0.88
58:DZ:156:LYS:O	58:DZ:158:PRO:HD3	1.73	0.88
41:BG:97:ASP:H	41:BG:100:TRP:HD1	1.16	0.88
24:AY:170:ARG:O	24:AY:171:GLU:HG2	1.74	0.88
35:BA:996:A:H4'	53:BU:92:ARG:NE	1.87	0.88
41:DG:55:LYS:HD3	41:DG:56:ALA:N	1.88	0.88
27:D2:25:VAL:HG22	27:D2:60:LEU:HD13	1.55	0.88
30:B5:34:PRO:O	30:B5:35:GLU:HB2	1.74	0.88
35:BA:1070:A:H5'	35:BA:1072:C:OP2	1.73	0.88
35:DA:2761:G:H2'	35:DA:2762:G:H5''	1.53	0.88
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.54	0.88
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.56	0.88
24:AY:662:LYS:NZ	42:BH:175:LYS:CE	2.36	0.88
1:CA:1221:G:H4'	19:CS:77:THR:HG21	1.56	0.88
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.54	0.88
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.38	0.88
40:BF:181:LEU:HB3	40:BF:205:ARG:NH1	1.89	0.88
39:BE:38:THR:HB	39:BE:41:LYS:HG2	1.56	0.88
35:BA:2742:C:O2'	35:BA:2743:C:H5'	1.73	0.88
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.56	0.88
24:AY:488:THR:O	24:AY:516:PRO:HG3	1.74	0.87
35:DA:1782:C:H1'	35:DA:2609:U:H5'	1.57	0.87
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.57	0.87
12:CL:79:GLU:HB2	24:CY:442:THR:HG21	1.55	0.87
36:DB:91:C:OP1	49:DQ:16:ARG:HG3	1.74	0.87
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.56	0.87
1:AA:1364:U:O2	1:AA:1364:U:H2'	1.72	0.87
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.89	0.87
48:BP:39:LYS:HE2	48:BP:40:SER:H	1.40	0.87
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.57	0.87
24:AY:409:ILE:CD1	24:AY:654:GLY:HA2	2.04	0.87
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.56	0.87
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.57	0.87
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.48	0.87
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	1.74	0.87
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.03	0.87
30:B5:55:ARG:O	30:B5:56:LYS:HB2	1.73	0.87
2:AB:223:ILE:HG12	2:AB:226:ARG:CZ	2.05	0.87
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.55	0.87
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:545:C:H2'	35:DA:547:A:H5''	1.56	0.87
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.03	0.87
5:CE:80:ILE:HG22	8:CH:104:ARG:NH2	1.89	0.87
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	1.89	0.87
35:DA:925:C:C2'	35:DA:926:A:H5''	2.05	0.87
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.10	0.87
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.10	0.87
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.04	0.87
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.56	0.87
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.56	0.87
35:BA:195:A:OP1	48:BP:46:LYS:HE2	1.73	0.87
58:DZ:18:LEU:HD12	58:DZ:18:LEU:H	1.39	0.87
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.56	0.87
48:DP:55:ARG:HG2	48:DP:56:SER:N	1.83	0.87
41:DG:51:ARG:HE	41:DG:51:ARG:HA	1.38	0.87
50:DR:84:ALA:HB3	50:DR:85:PRO:HD3	1.57	0.87
35:BA:1452:A:C3'	35:BA:1453:U:H5''	2.03	0.87
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.55	0.87
38:DD:158:ALA:HB3	38:DD:161:THR:HG21	1.56	0.87
33:B8:56:GLU:HA	33:B8:59:LYS:HZ1	1.38	0.87
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.90	0.87
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.40	0.87
3:CC:20:SER:HB3	3:CC:40:ARG:HH22	1.37	0.87
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.39	0.87
31:D6:28:ARG:NH1	31:D6:28:ARG:HB3	1.90	0.87
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	1.54	0.87
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.05	0.87
52:BT:23:ARG:O	52:BT:25:GLY:N	2.08	0.87
35:DA:2175:C:H4'	37:DC:219:MET:O	1.75	0.87
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.74	0.87
35:BA:545:C:H2'	35:BA:547:A:H5''	1.55	0.87
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.57	0.87
24:CY:605:ILE:HD11	24:CY:677:GLN:HG2	1.57	0.86
1:CA:656:C:H4'	15:CO:62:GLN:NE2	1.88	0.86
24:CY:272:LEU:O	24:CY:276:VAL:HG23	1.75	0.86
44:BK:30:HIS:HA	44:BK:59:ILE:HD12	1.56	0.86
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.09	0.86
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.11	0.86
25:D0:60:PHE:CE2	35:DA:2365:G:H4'	2.09	0.86
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.38	0.86
35:DA:2425:A:H5'	35:DA:2427:C:O4'	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.56	0.86
24:AY:468:ARG:HB3	24:AY:468:ARG:HH11	1.39	0.86
1:CA:80:G:H3'	1:CA:81:U:C5'	2.04	0.86
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.55	0.86
1:CA:1502:A:H2	1:CA:1505:G:H1	1.23	0.86
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.40	0.86
48:DP:85:LEU:HD23	48:DP:85:LEU:H	1.39	0.86
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.08	0.86
35:DA:614(A):U:H4'	35:DA:614(B):G:H5''	1.56	0.86
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.58	0.86
25:B0:60:PHE:CE2	35:BA:2365:G:H4'	2.10	0.86
33:D8:13:ARG:NH1	48:DP:59:LEU:HG	1.90	0.86
3:CC:70:VAL:HG12	3:CC:71:ALA:N	1.90	0.86
28:D3:17:LYS:NZ	28:D3:20:LYS:HE3	1.91	0.86
49:BQ:45:GLN:H	49:BQ:45:GLN:NE2	1.74	0.86
35:BA:108:U:H2'	35:BA:109:G:C8	2.10	0.86
1:CA:483:C:H3'	1:CA:484:G:H5''	1.55	0.86
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	1.91	0.86
3:AC:20:SER:HB3	3:AC:40:ARG:NH2	1.91	0.86
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	1.75	0.86
49:BQ:59:ARG:HA	58:BZ:180:VAL:HG23	1.58	0.86
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.56	0.86
35:DA:1285:G:H2'	35:DA:1286:A:H5'	1.57	0.86
35:BA:2562:U:H1'	47:BO:23:ARG:HH11	1.39	0.86
35:BA:1223:G:H3'	35:BA:1224:C:H5''	1.58	0.86
1:AA:656:C:H4'	15:AO:62:GLN:NE2	1.89	0.86
35:BA:1899:G:H22	35:BA:1902:C:H41	1.21	0.86
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.76	0.86
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.41	0.86
37:DC:77:ALA:HB3	37:DC:95:VAL:HA	1.57	0.86
5:AE:9:LYS:HB2	5:AE:112:LEU:HD11	1.57	0.86
35:DA:192:C:H2'	35:DA:193:U:H5'	1.57	0.86
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.56	0.86
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CB	2.04	0.86
35:DA:2562:U:H1'	47:DO:23:ARG:HH11	1.41	0.86
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.76	0.86
17:CQ:52:LYS:H	17:CQ:52:LYS:HD2	1.40	0.86
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.57	0.86
39:BE:24:THR:HG22	39:BE:186:GLY:HA2	1.58	0.86
36:DB:65:C:N4	36:DB:109:C:H2'	1.91	0.86
35:DA:27:G:N2	35:DA:512:G:H2'	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:44:ILE:HG22	57:DY:45:VAL:H	1.41	0.86
52:BT:13:ARG:CZ	52:BT:13:ARG:HA	2.06	0.86
39:DE:176:ILE:HG22	39:DE:178:GLU:HB3	1.55	0.86
1:AA:697:U:H2'	1:AA:698:G:H5'	1.57	0.86
1:CA:697:U:H2'	1:CA:698:G:H5'	1.58	0.86
35:DA:940:G:H5'	35:DA:941:A:OP2	1.75	0.86
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.76	0.86
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.05	0.86
2:CB:223:ILE:HG12	2:CB:226:ARG:CZ	2.05	0.86
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.05	0.86
35:BA:2876:G:H4'	52:BT:3:ARG:HE	1.41	0.86
17:CQ:3:LYS:HB3	17:CQ:61:GLU:HB3	1.56	0.86
35:BA:203:C:H3'	35:BA:204:A:H5''	1.58	0.86
41:DG:77:ILE:HG21	41:DG:80:PHE:HB2	1.56	0.86
35:DA:2796:U:H3'	35:DA:2799:C:H5'	1.55	0.86
40:DF:53:THR:HG23	40:DF:55:GLY:N	1.91	0.86
35:DA:1818:U:H5''	38:DD:157:ARG:HB2	1.57	0.86
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.76	0.86
35:DA:978:G:H1	35:DA:985:C:H42	1.23	0.86
35:BA:1285:G:H2'	35:BA:1286:A:H5'	1.58	0.86
55:BW:5:ALA:HB2	55:BW:54:ALA:HB2	1.57	0.86
38:BD:35:LYS:HZ3	38:BD:36:PRO:CD	1.89	0.85
40:DF:181:LEU:HB3	40:DF:205:ARG:NH1	1.91	0.85
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.04	0.85
35:BA:27:G:N2	35:BA:512:G:H2'	1.90	0.85
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.06	0.85
42:BH:17:VAL:HG11	42:BH:50:VAL:HG21	1.56	0.85
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.76	0.85
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.38	0.85
36:DB:103:G:H21	58:DZ:73:GLN:HE22	1.23	0.85
42:BH:169:VAL:HG22	42:BH:170:ARG:H	1.40	0.85
24:CY:519:ARG:NH1	24:CY:678:GLU:H	1.74	0.85
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.12	0.85
41:DG:112:PRO:O	41:DG:113:ARG:HA	1.76	0.85
52:BT:46:GLU:O	52:BT:65:LYS:HD2	1.75	0.85
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.05	0.85
49:BQ:56:ARG:HH21	58:BZ:180:VAL:HG21	1.40	0.85
26:B1:41:ARG:NH2	35:BA:1365:A:H5'	1.91	0.85
1:CA:579:G:H5'	1:CA:728:A:H1'	1.57	0.85
35:DA:2742:C:O2'	35:DA:2743:C:H5'	1.76	0.85
42:DH:17:VAL:HG11	42:DH:50:VAL:HG21	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1004:A:H61	1:AA:1034:G:H2'	1.40	0.85
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.56	0.85
27:D2:69:ARG:HG3	27:D2:70:GLN:N	1.91	0.85
49:DQ:45:GLN:NE2	49:DQ:45:GLN:H	1.73	0.85
37:BC:77:ALA:HB3	37:BC:95:VAL:HA	1.58	0.85
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.57	0.85
1:CA:1004:A:H61	1:CA:1034:G:H2'	1.40	0.85
26:B1:45:ASN:HD21	26:B1:47:GLN:HE21	1.24	0.85
30:D5:55:ARG:O	30:D5:56:LYS:HB2	1.74	0.85
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.39	0.85
10:AJ:55:LYS:H	10:AJ:55:LYS:HE2	1.41	0.85
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.57	0.85
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.38	0.85
57:DY:94:LYS:C	57:DY:102:CYS:HB2	1.97	0.85
42:BH:12:PRO:HB2	42:BH:15:VAL:HG11	1.57	0.85
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.74	0.85
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.40	0.85
42:DH:169:VAL:HG22	42:DH:170:ARG:H	1.39	0.85
4:CD:30:LYS:C	4:CD:32:ALA:H	1.80	0.85
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.07	0.85
52:DT:46:GLU:O	52:DT:65:LYS:HD2	1.76	0.85
29:D4:14:ILE:O	29:D4:21:VAL:HG13	1.77	0.85
58:DZ:130:PRO:HA	58:DZ:133:ILE:HD11	1.58	0.85
8:CH:83:ILE:HD12	8:CH:137:VAL:HG22	1.58	0.85
1:CA:148:G:H2'	1:CA:149:A:H8	1.41	0.85
40:BF:53:THR:HG23	40:BF:55:GLY:N	1.90	0.85
35:DA:272(H):C:H6	35:DA:272(H):C:H5'	1.41	0.85
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.06	0.85
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.41	0.85
46:DN:91:LEU:HD23	46:DN:98:VAL:HG21	1.57	0.85
44:DK:30:HIS:HA	44:DK:59:ILE:HD12	1.56	0.85
50:BR:100:LEU:HD22	50:BR:100:LEU:H	1.39	0.85
35:DA:2876:G:H4'	52:DT:3:ARG:HE	1.41	0.85
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	1.92	0.85
58:DZ:48:PHE:CE1	58:DZ:52:SER:HA	2.12	0.85
42:DH:12:PRO:HB2	42:DH:15:VAL:HG11	1.56	0.85
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.77	0.85
35:BA:1818:U:H5''	38:BD:157:ARG:HB2	1.58	0.85
35:BA:1782:C:H1'	35:BA:2609:U:H5'	1.56	0.85
35:DA:2317:C:H2'	35:DA:2318:G:H5'	1.55	0.85
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:35:GLU:HB3	41:DG:160:VAL:HG12	1.59	0.85
26:D1:73:LEU:HD21	26:D1:94:LEU:HB3	1.57	0.85
50:DR:117:VAL:O	50:DR:118:GLU:HB2	1.77	0.85
24:AY:416:LYS:CD	24:AY:417:THR:H	1.89	0.85
24:AY:517:LEU:HD23	24:AY:521:SER:HB3	1.57	0.85
31:B6:28:ARG:NH1	31:B6:28:ARG:HB3	1.91	0.85
35:BA:940:G:H5'	35:BA:941:A:OP2	1.76	0.85
51:BS:106:ARG:HB3	51:BS:106:ARG:HH11	1.42	0.85
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.06	0.85
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.59	0.85
36:BB:3:C:H42	36:BB:118:G:H1	1.25	0.85
35:DA:1779:U:H5	35:DA:1784:A:N7	1.74	0.85
42:BH:30:LYS:HD2	42:BH:81:GLU:HG2	1.59	0.85
29:B4:10:VAL:HG23	29:B4:11:PRO:HD2	1.58	0.85
41:BG:97:ASP:HB2	41:BG:98:ARG:HH12	1.42	0.85
51:DS:106:ARG:HB3	51:DS:106:ARG:HH11	1.41	0.85
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.56	0.85
58:DZ:137:ILE:HG21	58:DZ:155:LEU:HD12	1.57	0.85
24:CY:489:LYS:HG2	24:CY:598:ASP:HB2	1.58	0.85
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.40	0.85
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.42	0.85
35:DA:2502:G:H5''	35:DA:2503:A:H5'	1.59	0.85
52:DT:53:ARG:HB3	52:DT:53:ARG:NH1	1.92	0.85
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	1.89	0.84
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.42	0.84
24:CY:148:LEU:HA	24:CY:151:ARG:HD2	1.57	0.84
35:DA:1609:A:H5'	35:DA:1610:A:OP2	1.75	0.84
1:AA:579:G:H5'	1:AA:728:A:H1'	1.58	0.84
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.76	0.84
43:DJ:26:UNK:HA	43:DJ:84:UNK:HA	1.60	0.84
9:AI:95:LYS:HZ3	9:AI:96:LEU:HD12	1.41	0.84
36:DB:3:C:H42	36:DB:118:G:H1	1.25	0.84
35:DA:1678:G:N2	35:DA:1989:G:H22	1.74	0.84
35:DA:1242:A:H5'	35:DA:1243:G:OP2	1.77	0.84
35:BA:2645:G:H4'	35:BA:2732:G:O2'	1.77	0.84
41:DG:87:PRO:O	41:DG:88:ILE:HD12	1.77	0.84
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.57	0.84
35:BA:107:C:H2'	35:BA:108:U:H6	1.41	0.84
52:DT:132:LYS:H	52:DT:132:LYS:HD3	1.42	0.84
38:DD:183:ARG:HG2	38:DD:183:ARG:HH11	1.41	0.84
35:BA:2502:G:H5''	35:BA:2503:A:H5'	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:53:ARG:NH1	52:BT:53:ARG:HB3	1.91	0.84
36:BB:87:G:H2'	36:BB:88:C:H3'	1.58	0.84
25:D0:40:GLN:NE2	25:D0:43:THR:HA	1.92	0.84
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.09	0.84
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.77	0.84
51:BS:101:LEU:O	51:BS:101:LEU:HD12	1.77	0.84
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	1.77	0.84
36:DB:87:G:H2'	36:DB:88:C:H3'	1.59	0.84
25:B0:50:ASN:HA	25:B0:62:LEU:HD12	1.59	0.84
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.77	0.84
35:BA:1242:A:H5'	35:BA:1243:G:OP2	1.76	0.84
35:BA:666:G:H4'	48:BP:49:ARG:NH2	1.92	0.84
35:BA:925:C:C2'	35:BA:926:A:H5''	2.06	0.84
24:CY:201:ILE:HG21	24:CY:206:LEU:HA	1.60	0.84
38:DD:131:LEU:N	38:DD:131:LEU:HD12	1.93	0.84
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.60	0.84
35:BA:970:C:H2'	35:BA:971:C:H6	1.42	0.84
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	2.07	0.84
24:CY:170:ARG:HD2	24:CY:170:ARG:H	1.41	0.84
38:BD:95:LEU:HD12	38:BD:103:ARG:O	1.78	0.84
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.41	0.84
50:DR:10:LEU:HB3	50:DR:17:ARG:HD3	1.58	0.84
1:CA:299:G:H2'	1:CA:300:A:C8	2.12	0.84
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.78	0.84
48:BP:27:HIS:HD2	48:BP:28:GLY:N	1.74	0.84
46:BN:91:LEU:HD23	46:BN:98:VAL:HG21	1.59	0.84
35:DA:108:U:H2'	35:DA:109:G:C8	2.12	0.84
35:BA:2175:C:H4'	37:BC:219:MET:O	1.76	0.84
24:AY:555:LEU:HD21	24:AY:599:PRO:HG3	1.60	0.84
24:CY:17:ILE:H	24:CY:17:ILE:HD12	1.41	0.84
58:DZ:10:ARG:HH21	58:DZ:26:GLY:H	1.22	0.84
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.22	0.84
35:DA:978:G:H1	35:DA:985:C:N4	1.76	0.84
46:DN:62:VAL:HG22	46:DN:66:LYS:HG3	1.59	0.84
4:AD:49:ARG:HE	4:AD:49:ARG:HA	1.43	0.84
41:DG:145:THR:HG23	41:DG:148:MET:HB2	1.59	0.84
41:DG:145:THR:CG2	41:DG:148:MET:HB2	2.08	0.84
58:BZ:115:GLY:H	58:BZ:177:PRO:HG3	1.43	0.84
24:CY:670:VAL:CG2	24:CY:671:MET:H	1.89	0.84
57:BY:94:LYS:C	57:BY:102:CYS:HB2	1.98	0.84
31:D6:10:LEU:H	31:D6:10:LEU:CD2	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1947:C:H2'	35:BA:1948:G:H5''	1.58	0.84
22:CW:74:A:H2'	22:CW:75:C:H5''	1.59	0.84
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.59	0.84
38:BD:158:ALA:HB3	38:BD:161:THR:HG21	1.59	0.84
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.42	0.84
15:CO:78:TYR:O	15:CO:82:ILE:HG22	1.78	0.84
39:BE:176:ILE:HG22	39:BE:178:GLU:HB3	1.57	0.84
52:BT:108:ARG:HG3	52:BT:109:GLU:N	1.93	0.84
1:AA:148:G:H2'	1:AA:149:A:H8	1.42	0.84
35:DA:666:G:H4'	48:DP:49:ARG:NH2	1.93	0.84
24:CY:13:ARG:HB3	24:CY:79:ILE:HG23	1.59	0.84
44:DK:77:LEU:HD23	44:DK:77:LEU:H	1.43	0.84
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.58	0.84
38:DD:145:VAL:HG22	38:DD:191:ALA:HB1	1.59	0.84
35:BA:2425:A:H5'	35:BA:2427:C:O4'	1.78	0.84
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.08	0.84
35:DA:2438:U:O3'	35:DA:2439:A:H4'	1.78	0.84
35:DA:107:C:H2'	35:DA:108:U:H6	1.41	0.84
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.60	0.84
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.57	0.84
35:BA:978:G:H1	35:BA:985:C:N4	1.75	0.84
50:DR:99:LYS:H	50:DR:99:LYS:CD	1.87	0.83
10:CJ:55:LYS:H	10:CJ:55:LYS:HE2	1.42	0.83
24:AY:329:ARG:HD3	24:AY:374:LEU:HD11	1.59	0.83
1:CA:814:A:H2'	1:CA:816:A:H5'	1.60	0.83
58:DZ:81:ARG:NH1	58:DZ:81:ARG:HB3	1.91	0.83
36:BB:65:C:N4	36:BB:109:C:H2'	1.91	0.83
41:DG:68:PRO:HA	41:DG:92:VAL:HG13	1.57	0.83
35:DA:1142(A):A:H4'	46:DN:25:ARG:HH22	1.42	0.83
25:D0:47:PRO:HG3	25:D0:59:LEU:HD21	1.58	0.83
35:DA:6:A:O2'	46:DN:130:HIS:HB2	1.77	0.83
28:D3:29:ARG:HH11	28:D3:29:ARG:HB2	1.43	0.83
46:BN:9:VAL:HG11	46:BN:39:ARG:NH2	1.92	0.83
24:AY:15:ILE:HD11	24:AY:81:ILE:HG12	1.61	0.83
41:DG:76:SER:HB2	41:DG:83:ARG:HB3	1.58	0.83
41:DG:86:MET:N	41:DG:87:PRO:HD3	1.94	0.83
40:DF:7:TYR:HD2	40:DF:16:GLY:HA3	1.43	0.83
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.60	0.83
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.60	0.83
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.42	0.83
52:DT:108:ARG:HG3	52:DT:109:GLU:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:980:C:H5	1:CA:981:U:C2	1.95	0.83
38:DD:35:LYS:HZ3	38:DD:36:PRO:CD	1.92	0.83
31:B6:51:GLU:O	31:B6:52:VAL:HB	1.77	0.83
58:DZ:10:ARG:HH21	58:DZ:26:GLY:N	1.74	0.83
35:BA:272(H):C:H5'	35:BA:272(H):C:H6	1.41	0.83
31:D6:51:GLU:O	31:D6:52:VAL:HB	1.78	0.83
3:AC:70:VAL:HG12	3:AC:71:ALA:N	1.90	0.83
24:CY:230:LYS:HZ1	24:CY:237:PRO:HA	1.43	0.83
35:DA:2287:A:N6	35:DA:2344:U:H3	1.75	0.83
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.60	0.83
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.14	0.83
47:DO:24:VAL:HG21	47:DO:30:ALA:HB3	1.61	0.83
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.59	0.83
13:CM:69:GLU:HG2	29:D4:43:TYR:OH	1.78	0.83
24:CY:526:VAL:HB	24:CY:566:THR:HA	1.60	0.83
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.14	0.83
25:D0:14:ARG:NH1	25:D0:14:ARG:HB2	1.93	0.83
1:AA:368:U:P	24:AY:351:ARG:HH11	2.01	0.83
47:BO:43:VAL:HG23	47:BO:56:ASP:O	1.77	0.83
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.60	0.83
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.44	0.83
61:CY:702:FUA:H122	61:CY:702:FUA:H231	1.59	0.83
46:DN:9:VAL:HG11	46:DN:39:ARG:NH2	1.92	0.83
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.08	0.83
35:BA:2287:A:N6	35:BA:2344:U:H3	1.74	0.83
1:AA:975:A:H5'	1:AA:975:A:H8	1.44	0.83
35:BA:2438:U:O3'	35:BA:2439:A:H4'	1.76	0.83
57:BY:44:ILE:HG22	57:BY:45:VAL:H	1.43	0.83
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.59	0.83
47:DO:69:ILE:HD13	47:DO:77:ILE:HG23	1.59	0.83
4:AD:30:LYS:C	4:AD:32:ALA:H	1.79	0.83
35:DA:1485:G:H1'	35:DA:1505:C:H42	1.44	0.83
31:B6:48:VAL:HG23	31:B6:49:HIS:N	1.93	0.83
26:D1:76:ARG:NH1	26:D1:95:LEU:HD22	1.94	0.83
47:BO:114:ILE:HD12	47:BO:114:ILE:H	1.43	0.83
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.41	0.83
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.60	0.83
30:D5:34:PRO:O	30:D5:35:GLU:HB2	1.76	0.83
35:DA:1223:G:H3'	35:DA:1224:C:H5''	1.57	0.83
57:BY:46:LYS:H	57:BY:62:GLU:HB2	1.43	0.83
49:DQ:30:GLY:HA2	49:DQ:107:ALA:HB2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:195:A:OP1	48:DP:46:LYS:HE2	1.78	0.83
35:BA:1678:G:N2	35:BA:1989:G:H22	1.77	0.83
35:DA:218:A:C2	35:DA:235:U:H4'	2.13	0.83
23:AX:13:A:H3'	23:AX:14:A:C5'	2.08	0.83
1:AA:980:C:H5	1:AA:981:U:C2	1.96	0.83
1:CA:1318:A:H1'	19:CS:37:ARG:NH2	1.93	0.83
48:DP:57:THR:OG1	48:DP:59:LEU:HB3	1.78	0.83
35:BA:806:C:OP2	48:BP:39:LYS:HD3	1.78	0.83
35:DA:1059:G:H2'	35:DA:1060:U:C5	2.14	0.83
22:CW:7:G:H3'	22:CW:8:U:H5'	1.59	0.83
27:D2:32:LEU:HA	27:D2:53:LEU:HD13	1.61	0.83
35:BA:9:U:H5	35:BA:2629:A:H62	1.27	0.83
29:B4:14:ILE:O	29:B4:21:VAL:HG13	1.77	0.83
24:CY:21:ILE:HG21	24:CY:88:VAL:HG13	1.61	0.83
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	1.93	0.83
35:DA:2314:C:O2'	35:DA:2315:G:H5'	1.78	0.83
1:AA:1221:G:H4'	19:AS:77:THR:HG21	1.59	0.83
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	1.60	0.83
48:DP:125:VAL:O	48:DP:145:PRO:HD2	1.77	0.83
30:D5:55:ARG:HD3	30:D5:55:ARG:C	1.98	0.83
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.61	0.83
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.61	0.83
35:BA:1609:A:H5'	35:BA:1610:A:OP2	1.79	0.83
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CB	2.05	0.83
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.09	0.83
35:BA:965:C:C5'	35:BA:2273:A:H1'	2.09	0.83
1:AA:243:A:H4'	1:AA:244:U:O5'	1.79	0.83
38:BD:131:LEU:N	38:BD:131:LEU:HD12	1.94	0.83
50:BR:117:VAL:O	50:BR:118:GLU:HB2	1.79	0.83
54:DV:21:ARG:HB3	54:DV:91:TYR:CD1	2.14	0.83
12:CL:90:VAL:O	12:CL:92:ASP:N	2.12	0.83
52:BT:132:LYS:HD3	52:BT:132:LYS:H	1.41	0.83
24:CY:131:PRO:HG2	24:CY:281:PRO:HG3	1.60	0.83
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.61	0.83
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.08	0.82
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	1.93	0.82
51:DS:101:LEU:O	51:DS:101:LEU:HD12	1.77	0.82
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.61	0.82
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.59	0.82
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.14	0.82
24:CY:546:ILE:HD13	24:CY:565:VAL:HG11	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:64:ILE:HG22	40:DF:76:GLY:O	1.79	0.82
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.58	0.82
35:BA:218:A:C2	35:BA:235:U:H4'	2.13	0.82
24:CY:413:ILE:HG22	24:CY:449:THR:O	1.79	0.82
35:DA:2645:G:H4'	35:DA:2732:G:O2'	1.78	0.82
31:B6:54:ILE:O	31:B6:54:ILE:HD12	1.79	0.82
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.43	0.82
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.79	0.82
52:BT:65:LYS:HE3	52:BT:66:VAL:N	1.95	0.82
2:AB:126:GLU:HA	2:AB:129:GLU:OE1	1.78	0.82
35:DA:2138:C:H2'	35:DA:2139:C:C6	2.13	0.82
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.13	0.82
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.44	0.82
58:BZ:79:ARG:O	58:BZ:80:ARG:HB2	1.77	0.82
24:AY:149:VAL:O	24:AY:152:THR:HG22	1.79	0.82
35:DA:1947:C:C2'	35:DA:1948:G:H5''	2.08	0.82
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.43	0.82
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.59	0.82
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.45	0.82
35:BA:2787:C:H1'	39:BE:61:ARG:HG3	1.61	0.82
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.61	0.82
49:BQ:30:GLY:HA2	49:BQ:107:ALA:HB2	1.61	0.82
54:BV:21:ARG:HB3	54:BV:91:TYR:CD1	2.14	0.82
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.44	0.82
38:DD:91:ARG:HG2	38:DD:91:ARG:HH11	1.44	0.82
13:AM:124:PRO:HG2	24:AY:574:GLU:H	1.44	0.82
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.77	0.82
40:BF:7:TYR:HD2	40:BF:16:GLY:HA3	1.43	0.82
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.09	0.82
48:DP:27:HIS:HD2	48:DP:28:GLY:N	1.76	0.82
39:BE:111:ARG:HG3	50:BR:2:ARG:HG2	1.62	0.82
52:BT:23:ARG:HG2	52:BT:120:ARG:NH1	1.95	0.82
35:BA:978:G:H1	35:BA:985:C:H42	1.24	0.82
35:DA:598:G:H5'	48:DP:15:ARG:HB2	1.58	0.82
55:DW:29:LEU:HD11	55:DW:51:LEU:HD11	1.61	0.82
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.14	0.82
44:DK:59:ILE:HG12	44:DK:60:TYR:N	1.95	0.82
1:CA:1284:C:H3'	1:CA:1285:A:H5''	1.61	0.82
25:B0:47:PRO:HG3	25:B0:59:LEU:HD21	1.59	0.82
22:CW:11:A:H2'	22:CW:12:G:H8	1.43	0.82
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:12:VAL:HG12	56:BX:27:THR:O	1.79	0.82
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.10	0.82
28:B3:17:LYS:NZ	28:B3:20:LYS:HE3	1.94	0.82
57:DY:46:LYS:H	57:DY:62:GLU:HB2	1.43	0.82
39:DE:24:THR:HG22	39:DE:186:GLY:HA2	1.61	0.82
35:BA:621:A:H2'	35:BA:622:G:H5'	1.62	0.82
44:BK:93:ARG:HB2	58:BZ:112:ARG:HE	1.43	0.82
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.60	0.82
40:BF:155:LEU:HA	40:BF:174:VAL:HB	1.62	0.82
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HD12	1.62	0.82
54:BV:38:LEU:O	54:BV:39:LEU:HD13	1.80	0.82
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.09	0.82
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.09	0.82
1:AA:1489:G:C2'	1:AA:1490:C:H5''	2.09	0.82
52:DT:23:ARG:HG2	52:DT:120:ARG:NH1	1.95	0.82
35:BA:2138:C:H2'	35:BA:2139:C:C6	2.13	0.82
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.78	0.82
2:CB:12:GLU:O	2:CB:14:GLY:N	2.12	0.82
35:BA:2314:C:O2'	35:BA:2315:G:H5'	1.79	0.82
35:BA:2473:U:H3'	35:BA:2474:C:C5'	2.08	0.82
25:D0:11:ARG:HB2	25:D0:11:ARG:NH1	1.95	0.82
58:DZ:111:VAL:O	58:DZ:112:ARG:HB2	1.78	0.82
35:DA:2439:A:O2'	35:DA:2587:A:H5''	1.80	0.82
48:BP:125:VAL:O	48:BP:145:PRO:HD2	1.78	0.82
35:BA:1142(A):A:H4'	46:BN:25:ARG:HH22	1.45	0.82
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.80	0.82
52:BT:32:TYR:CD2	52:BT:32:TYR:N	2.48	0.82
41:BG:171:ALA:O	41:BG:175:LEU:HG	1.80	0.82
50:BR:10:LEU:HB3	50:BR:17:ARG:HD3	1.59	0.82
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.78	0.82
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.50	0.82
35:BA:1485:G:H1'	35:BA:1505:C:H42	1.45	0.82
35:DA:806:C:OP2	48:DP:39:LYS:HD3	1.79	0.82
31:B6:14:THR:O	31:B6:49:HIS:HA	1.79	0.82
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.43	0.82
39:BE:36:ARG:HG2	39:BE:36:ARG:HH11	1.42	0.82
1:CA:1053:G:N7	1:CA:1200:C:H5''	1.95	0.82
24:AY:555:LEU:HD21	24:AY:599:PRO:CG	2.10	0.82
42:DH:30:LYS:HD2	42:DH:81:GLU:HG2	1.62	0.82
40:BF:64:ILE:HG22	40:BF:76:GLY:O	1.80	0.82
31:B6:28:ARG:HB3	31:B6:28:ARG:HH11	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:13:ARG:HG3	51:DS:14:VAL:N	1.95	0.81
35:BA:2585:U:O2'	35:BA:2586:C:H5'	1.80	0.81
3:CC:20:SER:HB3	3:CC:40:ARG:NH2	1.95	0.81
52:DT:55:ASN:N	52:DT:59:THR:HG22	1.95	0.81
53:BU:34:LYS:HA	53:BU:34:LYS:HE2	1.60	0.81
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	1.95	0.81
23:AX:19:U:H5'	24:AY:504:ARG:HB3	1.59	0.81
38:BD:24:ILE:HD13	38:BD:25:THR:H	1.45	0.81
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.62	0.81
35:DA:288:C:H2'	35:DA:289:A:H8	1.44	0.81
24:CY:92:ILE:HG23	24:CY:93:GLU:N	1.94	0.81
52:DT:28:VAL:CG2	52:DT:46:GLU:HG3	2.10	0.81
1:CA:1014:A:H4'	19:CS:14:HIS:CE1	2.15	0.81
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.44	0.81
1:CA:1364:U:O2	1:CA:1364:U:H2'	1.80	0.81
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.45	0.81
12:AL:90:VAL:O	12:AL:92:ASP:N	2.13	0.81
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.10	0.81
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.62	0.81
53:DU:31:SER:HB3	53:DU:34:LYS:HB2	1.61	0.81
1:CA:1490:C:H5'	1:CA:1490:C:H6	1.46	0.81
35:DA:833:U:H5''	48:DP:48:PRO:HB3	1.61	0.81
27:D2:38:GLN:O	27:D2:41:ILE:HG12	1.79	0.81
52:BT:65:LYS:HA	52:BT:65:LYS:NZ	1.96	0.81
41:DG:38:VAL:HG13	41:DG:93:THR:HG23	1.62	0.81
31:B6:19:ARG:HG2	35:BA:2400:G:O5'	1.80	0.81
31:D6:14:THR:O	31:D6:49:HIS:HA	1.79	0.81
26:D1:26:ARG:HG3	26:D1:27:GLU:HG3	1.62	0.81
39:DE:36:ARG:HG2	39:DE:36:ARG:HH11	1.43	0.81
30:B5:55:ARG:C	30:B5:55:ARG:HD3	1.99	0.81
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.10	0.81
27:D2:2:LYS:HB2	35:DA:97:C:H5''	1.62	0.81
9:AI:95:LYS:NZ	9:AI:96:LEU:HD12	1.95	0.81
36:BB:91:C:OP1	49:BQ:16:ARG:HG3	1.80	0.81
24:CY:491:VAL:HG12	24:CY:492:ASP:N	1.96	0.81
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.09	0.81
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.62	0.81
25:B0:40:GLN:NE2	25:B0:43:THR:HA	1.95	0.81
25:D0:50:ASN:HA	25:D0:62:LEU:HD12	1.60	0.81
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.60	0.81
8:AH:83:ILE:HD12	8:AH:137:VAL:HG22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:175:LEU:HD21	3:CC:201:TYR:HE2	1.45	0.81
47:BO:24:VAL:HG21	47:BO:30:ALA:HB3	1.61	0.81
2:AB:12:GLU:O	2:AB:14:GLY:N	2.13	0.81
41:BG:45:GLU:O	41:BG:51:ARG:HD3	1.80	0.81
35:DA:2473:U:H3'	35:DA:2474:C:C5'	2.08	0.81
24:AY:21:ILE:H	24:AY:21:ILE:HD13	1.43	0.81
35:BA:833:U:H5''	48:BP:48:PRO:HB3	1.61	0.81
33:D8:33:ASN:N	33:D8:33:ASN:HD22	1.77	0.81
37:DC:111:PHE:HE1	37:DC:137:LEU:HD13	1.46	0.81
18:AR:37:VAL:HG23	18:AR:38:GLU:N	1.96	0.81
36:DB:7:G:H5'	51:DS:29:PHE:CE1	2.15	0.81
35:BA:6:A:O2'	46:BN:130:HIS:HB2	1.79	0.81
35:DA:2787:C:H1'	39:DE:61:ARG:HG3	1.61	0.81
10:CJ:9:ARG:HG2	10:CJ:69:ASN:OD1	1.77	0.81
47:DO:43:VAL:HG23	47:DO:56:ASP:O	1.79	0.81
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HD12	1.59	0.81
31:D6:48:VAL:HG23	31:D6:49:HIS:N	1.96	0.81
1:CA:975:A:H5'	1:CA:975:A:H8	1.44	0.81
35:DA:2585:U:O2'	35:DA:2586:C:H5'	1.80	0.81
26:B1:56:GLN:HA	26:B1:56:GLN:HE21	1.46	0.81
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.10	0.81
46:BN:62:VAL:HG22	46:BN:66:LYS:HG3	1.62	0.81
53:DU:34:LYS:HA	53:DU:34:LYS:HE2	1.61	0.81
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	1.96	0.81
24:CY:578:SER:HB3	24:CY:581:ALA:HB2	1.62	0.81
40:DF:155:LEU:HA	40:DF:174:VAL:HB	1.61	0.81
48:DP:6:LEU:HB3	48:DP:9:ASN:ND2	1.95	0.81
47:DO:114:ILE:HD12	47:DO:114:ILE:H	1.45	0.81
58:DZ:145:GLU:O	58:DZ:147:GLY:N	2.12	0.81
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.80	0.81
35:BA:1779:U:H5	35:BA:1784:A:N7	1.76	0.81
1:CA:1129:C:O2'	1:CA:1130:A:C8	2.33	0.81
31:D6:28:ARG:HB3	31:D6:28:ARG:HH11	1.42	0.81
31:D6:54:ILE:O	31:D6:54:ILE:HD12	1.81	0.81
41:BG:172:LEU:HD23	41:BG:176:LEU:HD11	1.63	0.81
35:DA:2761:G:C2'	35:DA:2762:G:H5''	2.10	0.81
29:D4:53:GLU:HB3	29:D4:55:ARG:NE	1.96	0.81
38:BD:91:ARG:HH11	38:BD:91:ARG:HG2	1.44	0.81
27:B2:2:LYS:HD2	27:B2:5:GLU:OE1	1.81	0.81
35:DA:2778:A:H5'	35:DA:2779:U:OP1	1.81	0.81
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.06	0.81
30:B5:41:PRO:HG2	30:B5:44:THR:OG1	1.81	0.81
2:AB:31:TYR:HE1	2:AB:200:ILE:HD12	1.46	0.81
9:AI:79:LEU:HD13	9:AI:83:ARG:HB2	1.63	0.81
35:DA:2389:G:H5''	35:DA:2390:U:H5'	1.62	0.81
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.96	0.81
50:DR:4:LEU:O	50:DR:4:LEU:HD13	1.81	0.81
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.29	0.81
42:BH:171:LEU:HD23	42:BH:172:LYS:O	1.79	0.81
54:BV:40:LEU:HA	54:BV:45:THR:HB	1.63	0.81
38:DD:35:LYS:HG3	38:DD:63:ARG:HG3	1.63	0.81
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	1.95	0.81
18:CR:37:VAL:HG23	18:CR:38:GLU:N	1.96	0.81
3:CC:152:ILE:HG22	3:CC:167:TRP:HA	1.62	0.81
35:BA:598:G:H5'	48:BP:15:ARG:HB2	1.60	0.81
9:CI:95:LYS:HZ3	9:CI:96:LEU:HD12	1.45	0.81
30:D5:40:LYS:NZ	30:D5:46:CYS:H	1.78	0.81
46:BN:129:PRO:O	46:BN:130:HIS:HB3	1.80	0.81
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.79	0.81
35:BA:1541:G:H1'	35:BA:1542:A:C4	2.16	0.81
42:DH:19:VAL:HG12	42:DH:20:ALA:H	1.46	0.81
24:CY:5:VAL:HG13	24:CY:6:GLU:H	1.46	0.81
24:CY:548:GLU:OE1	24:CY:583:LYS:HE2	1.80	0.81
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.81	0.81
24:CY:92:ILE:CG1	24:CY:405:PRO:HG2	2.11	0.80
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	1.95	0.80
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.96	0.80
35:BA:1059:G:H2'	35:BA:1060:U:C5	2.16	0.80
51:BS:89:ARG:HG3	51:BS:92:TYR:CA	2.11	0.80
44:BK:93:ARG:CB	58:BZ:112:ARG:HE	1.94	0.80
35:DA:2804:C:H2'	35:DA:2805:G:C8	2.16	0.80
35:DA:1541:G:H1'	35:DA:1542:A:C4	2.17	0.80
4:CD:49:ARG:HE	4:CD:49:ARG:HA	1.44	0.80
35:DA:9:U:H5	35:DA:2629:A:H62	1.27	0.80
53:BU:44:ASN:HD21	54:BV:75:PHE:HB3	1.47	0.80
24:AY:21:ILE:HG13	35:BA:2661:G:H5''	1.61	0.80
51:BS:13:ARG:CG	51:BS:14:VAL:H	1.94	0.80
41:BG:172:LEU:O	41:BG:176:LEU:HG	1.82	0.80
2:CB:121:LEU:HD22	2:CB:126:GLU:HB2	1.63	0.80
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.62	0.80
25:B0:43:THR:H	35:BA:2331:G:H4'	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:299:G:H2'	1:AA:300:A:C8	2.16	0.80
50:BR:4:LEU:O	50:BR:4:LEU:HD13	1.81	0.80
24:AY:662:LYS:NZ	42:BH:175:LYS:HG3	1.96	0.80
48:BP:57:THR:OG1	48:BP:59:LEU:HB3	1.81	0.80
5:CE:101:ILE:H	5:CE:101:ILE:HD13	1.46	0.80
1:AA:1053:G:N7	1:AA:1200:C:H5''	1.95	0.80
42:BH:83:TYR:HB3	42:BH:134:SER:HA	1.61	0.80
35:BA:979:G:H3'	35:BA:980:A:C5'	2.11	0.80
9:CI:79:LEU:HD13	9:CI:83:ARG:HB2	1.63	0.80
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	1.61	0.80
35:DA:965:C:C5'	35:DA:2273:A:H1'	2.11	0.80
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.80	0.80
51:DS:89:ARG:HG3	51:DS:92:TYR:CA	2.10	0.80
1:AA:148:G:H2'	1:AA:149:A:C8	2.17	0.80
24:CY:530:VAL:HG22	24:CY:531:GLY:H	1.45	0.80
35:DA:970:C:H2'	35:DA:971:C:H6	1.45	0.80
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.63	0.80
41:DG:5:VAL:HB	41:DG:8:LYS:HB2	1.64	0.80
35:DA:2483:C:H3'	35:DA:2484:G:H5''	1.64	0.80
7:AG:45:ASP:O	7:AG:49:ILE:HG12	1.80	0.80
1:AA:438:G:H4'	1:AA:439:A:OP1	1.79	0.80
1:AA:625:G:H2'	1:AA:626:U:H6	1.47	0.80
24:AY:662:LYS:HZ2	42:BH:175:LYS:CD	1.94	0.80
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.64	0.80
41:DG:46:ALA:HB2	41:DG:88:ILE:CB	2.12	0.80
35:DA:1142(A):A:H2'	35:DA:1143:A:H5''	1.62	0.80
39:DE:111:ARG:HG3	50:DR:2:ARG:HG2	1.64	0.80
35:DA:203:C:H3'	35:DA:204:A:H5''	1.62	0.80
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.16	0.80
52:DT:53:ARG:HH11	52:DT:53:ARG:HB3	1.47	0.80
35:BA:1539:G:C2	35:BA:1540:U:H1'	2.16	0.80
29:B4:53:GLU:HB3	29:B4:55:ARG:HE	1.47	0.80
24:CY:228:MET:O	24:CY:232:LEU:HD22	1.82	0.80
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.63	0.80
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	1.97	0.80
44:BK:59:ILE:HG12	44:BK:60:TYR:N	1.95	0.80
35:DA:1539:G:C2	35:DA:1540:U:H1'	2.17	0.80
1:CA:438:G:H4'	1:CA:439:A:OP1	1.80	0.80
32:D7:41:ARG:HH22	35:DA:460:A:P	2.04	0.80
32:D7:19:ARG:HD3	35:DA:125:G:H5'	1.63	0.80
29:D4:10:VAL:HG23	29:D4:11:PRO:HD2	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:40:LYS:NZ	30:B5:46:CYS:H	1.79	0.80
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.63	0.80
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.11	0.80
24:AY:513:LYS:CB	24:AY:566:THR:HB	2.11	0.80
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.64	0.80
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.46	0.80
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.81	0.80
35:BA:2463:C:O2'	35:BA:2464:C:H5'	1.82	0.80
54:DV:38:LEU:O	54:DV:39:LEU:HD13	1.80	0.80
41:BG:135:LEU:HD11	41:BG:155:MET:CG	2.11	0.80
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.24	0.80
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.63	0.80
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.11	0.80
1:AA:662:G:H2'	1:AA:663:A:C8	2.17	0.80
49:DQ:6:ARG:O	49:DQ:7:MET:HG3	1.81	0.80
35:BA:226:G:H4'	35:BA:227:A:OP1	1.82	0.80
58:BZ:42:VAL:HG13	58:BZ:43:GLU:H	1.45	0.80
24:CY:193:GLY:HA3	24:CY:266:ASN:HB3	1.62	0.80
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.47	0.80
38:BD:35:LYS:HG3	38:BD:63:ARG:HG3	1.64	0.80
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.64	0.80
27:D2:12:GLU:O	27:D2:16:LEU:HG	1.82	0.80
27:D2:24:LEU:HD22	27:D2:60:LEU:HD11	1.63	0.80
44:BK:77:LEU:H	44:BK:77:LEU:HD23	1.45	0.80
35:DA:2189:U:C2'	35:DA:2190:G:H5''	2.12	0.80
58:BZ:86:VAL:HG12	58:BZ:87:ASP:H	1.46	0.80
12:AL:25:PRO:C	12:AL:27:LEU:H	1.84	0.80
38:DD:24:ILE:HD13	38:DD:25:THR:H	1.46	0.80
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.82	0.80
35:BA:2518:A:H5''	35:BA:2519:U:OP2	1.81	0.80
1:CA:1026:G:H2'	1:CA:1027:C:H5'	1.62	0.80
28:B3:29:ARG:HB2	28:B3:29:ARG:HH11	1.44	0.80
24:AY:573:HIS:HD2	24:AY:576:ASP:H	1.28	0.80
1:CA:1489:G:H2'	1:CA:1490:C:C5'	2.11	0.80
48:BP:6:LEU:HB3	48:BP:9:ASN:ND2	1.96	0.80
53:DU:88:ILE:HG22	54:DV:47:VAL:O	1.82	0.80
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.81	0.80
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.47	0.80
31:B6:37:ARG:NH1	35:BA:2286:A:N7	2.29	0.80
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.81	0.80
2:CB:126:GLU:HA	2:CB:129:GLU:OE1	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:6:G:H2'	22:CW:7:G:O4'	1.82	0.80
42:DH:83:TYR:HB3	42:DH:134:SER:HA	1.62	0.80
35:DA:1947:C:H2'	35:DA:1948:G:H5''	1.62	0.80
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.47	0.80
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.81	0.80
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HB	1.64	0.80
24:AY:227:ILE:HG23	24:AY:237:PRO:HG2	1.63	0.79
35:DA:212:G:H5'	35:DA:212:G:H8	1.45	0.79
35:BA:212:G:H8	35:BA:212:G:H5'	1.46	0.79
50:DR:63:ARG:HH22	50:DR:77:ARG:HG2	1.47	0.79
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.45	0.79
2:CB:204:ASN:HD22	2:CB:205:ASP:N	1.80	0.79
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.00	0.79
35:DA:107:C:H2'	35:DA:108:U:C6	2.17	0.79
55:DW:59:VAL:HG12	55:DW:59:VAL:O	1.83	0.79
37:DC:31:LYS:HE3	37:DC:179:ALA:O	1.82	0.79
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.18	0.79
53:DU:44:ASN:HD21	54:DV:75:PHE:HB3	1.47	0.79
35:DA:861:A:H2'	35:DA:862:G:O4'	1.82	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:HD21	1.48	0.79
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.46	0.79
35:DA:979:G:H3'	35:DA:980:A:C5'	2.10	0.79
44:DK:4:VAL:HG12	44:DK:5:VAL:H	1.45	0.79
42:DH:85:LYS:NZ	42:DH:87:LEU:HG	1.96	0.79
38:BD:83:GLU:HB2	38:BD:92:ILE:HD11	1.64	0.79
4:CD:96:LEU:H	4:CD:96:LEU:HD22	1.47	0.79
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.46	0.79
58:DZ:108:PRO:HA	58:DZ:142:SER:HA	1.64	0.79
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.08	0.79
1:AA:1129:C:O2'	1:AA:1130:A:C8	2.34	0.79
48:BP:102:ARG:HB3	48:BP:102:ARG:NH2	1.98	0.79
58:DZ:163:LEU:HD23	58:DZ:163:LEU:H	1.47	0.79
1:CA:148:G:H2'	1:CA:149:A:C8	2.16	0.79
44:DK:59:ILE:HG12	44:DK:60:TYR:H	1.47	0.79
25:D0:43:THR:H	35:DA:2331:G:H4'	1.45	0.79
1:CA:243:A:H4'	1:CA:244:U:O5'	1.80	0.79
48:BP:77:ARG:HB2	48:BP:78:PRO:HD2	1.64	0.79
3:CC:150:LYS:HB2	3:CC:169:ALA:CB	2.12	0.79
35:BA:2068:U:N3	35:BA:2430:A:H2	1.80	0.79
41:BG:91:ARG:HD2	41:BG:92:VAL:N	1.96	0.79
33:B8:48:PHE:O	33:B8:49:VAL:HG13	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:145:GLU:C	58:DZ:147:GLY:H	1.86	0.79
48:DP:30:THR:HG22	48:DP:31:ALA:N	1.98	0.79
35:BA:1142(A):A:H2'	35:BA:1143:A:H5''	1.62	0.79
52:BT:53:ARG:HH11	52:BT:53:ARG:HB3	1.46	0.79
46:DN:129:PRO:O	46:DN:130:HIS:HB3	1.79	0.79
35:DA:1541:G:H4'	35:DA:1542:A:O5'	1.83	0.79
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.79
35:BA:2804:C:H2'	35:BA:2805:G:C8	2.17	0.79
5:CE:81:GLU:HG2	5:CE:90:VAL:HG22	1.65	0.79
34:D9:32:HIS:O	34:D9:34:GLN:HG3	1.82	0.79
42:BH:19:VAL:HG12	42:BH:20:ALA:H	1.46	0.79
41:BG:16:ARG:HE	41:BG:31:VAL:HG11	1.48	0.79
24:AY:122:TRP:CE3	24:AY:132:ARG:HD2	2.18	0.79
53:BU:53:ARG:HA	53:BU:56:ASP:OD2	1.83	0.79
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.11	0.79
31:D6:43:CYS:HB2	31:D6:44:ARG:HH21	1.48	0.79
48:DP:115:LEU:HA	48:DP:134:ALA:HB3	1.63	0.79
49:BQ:54:MET:HG2	49:BQ:64:ILE:HD13	1.64	0.79
42:BH:41:MET:CG	42:BH:43:VAL:HG13	2.11	0.79
42:BH:85:LYS:NZ	42:BH:87:LEU:HG	1.97	0.79
42:DH:41:MET:CG	42:DH:43:VAL:HG13	2.13	0.79
1:CA:662:G:H2'	1:CA:663:A:C8	2.18	0.79
24:AY:466:LEU:HA	24:AY:470:PHE:CD2	2.18	0.79
35:DA:272(G):C:C2'	35:DA:272(H):C:H5''	2.12	0.79
35:DA:1494:A:C2'	35:DA:1495:A:H5''	2.12	0.79
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.48	0.79
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.62	0.79
35:BA:2389:G:H5''	35:BA:2390:U:H5'	1.65	0.79
35:DA:621:A:H2'	35:DA:622:G:H5'	1.63	0.79
12:CL:25:PRO:C	12:CL:27:LEU:H	1.86	0.79
35:BA:861:A:H2'	35:BA:862:G:O4'	1.82	0.79
48:BP:30:THR:HG22	48:BP:31:ALA:N	1.97	0.79
35:DA:299:A:H5'	35:DA:300:A:OP2	1.82	0.79
31:B6:43:CYS:HB2	31:B6:44:ARG:HH21	1.48	0.79
3:CC:34:LEU:HD22	3:CC:38:ARG:HD2	1.65	0.79
35:DA:2584:U:C2'	35:DA:2585:U:H5'	2.11	0.79
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.63	0.79
44:BK:59:ILE:HG12	44:BK:60:TYR:H	1.48	0.79
13:AM:68:GLY:N	13:AM:71:ARG:HB3	1.97	0.79
1:AA:182:U:H5'	1:AA:183:G:OP2	1.83	0.79
32:B7:41:ARG:HH22	35:BA:460:A:P	2.05	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:288:C:H2'	35:BA:289:A:H8	1.45	0.79
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	1.98	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:ND2	1.97	0.79
51:BS:13:ARG:HG3	51:BS:14:VAL:N	1.97	0.79
27:D2:69:ARG:HG3	27:D2:70:GLN:H	1.48	0.79
44:BK:81:ALA:HB1	44:BK:99:ILE:HD11	1.63	0.79
1:CA:328:C:H2'	1:CA:328:C:O2	1.83	0.79
24:CY:491:VAL:HG12	24:CY:492:ASP:H	1.46	0.79
53:DU:110:VAL:HG12	53:DU:114:LYS:HD3	1.63	0.79
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	1.83	0.79
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.65	0.79
35:BA:533:G:H5''	53:BU:24:TYR:CD2	2.17	0.79
44:DK:81:ALA:HB1	44:DK:99:ILE:HD11	1.63	0.79
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.63	0.79
46:DN:57:ALA:H	46:DN:124:ALA:HA	1.46	0.79
35:BA:2189:U:C2'	35:BA:2190:G:H5''	2.12	0.79
35:BA:107:C:H2'	35:BA:108:U:C6	2.18	0.79
13:CM:68:GLY:N	13:CM:71:ARG:HB3	1.97	0.79
1:AA:625:G:H2'	1:AA:626:U:C6	2.18	0.79
24:AY:505:GLY:HA3	24:AY:576:ASP:CG	2.03	0.79
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.47	0.79
1:CA:1490:C:C6	1:CA:1490:C:H5'	2.18	0.79
35:BA:1845:G:H2'	35:BA:1846:G:C5'	2.12	0.79
58:DZ:7:ALA:O	58:DZ:62:PRO:HD3	1.82	0.79
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.47	0.79
35:BA:1259:G:O2'	35:BA:1260:G:H5'	1.83	0.79
52:DT:118:ARG:HA	52:DT:121:ILE:HB	1.65	0.79
41:DG:34:LEU:H	41:DG:34:LEU:HD12	1.48	0.79
1:AA:814:A:H2'	1:AA:816:A:H5'	1.63	0.79
24:AY:91:THR:O	24:AY:93:GLU:N	2.16	0.79
1:CA:182:U:H5'	1:CA:183:G:OP2	1.83	0.79
24:AY:196:ILE:O	24:AY:197:ARG:HB2	1.83	0.79
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.13	0.78
24:AY:427:ALA:HB1	24:AY:466:LEU:CD1	2.12	0.78
56:DX:12:VAL:HB	56:DX:17:ALA:CB	2.09	0.78
35:BA:2439:A:O2'	35:BA:2587:A:H5''	1.83	0.78
44:BK:100:THR:HA	44:BK:139:VAL:HB	1.65	0.78
14:AN:41:ARG:HG2	14:AN:41:ARG:HH11	1.47	0.78
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.48	0.78
24:CY:65:ILE:O	24:CY:65:ILE:HG12	1.82	0.78
48:DP:77:ARG:HB2	48:DP:78:PRO:HD2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2122:U:H2'	35:DA:2123:G:C8	2.18	0.78
35:DA:2076:U:H5'	35:DA:2238:G:H22	1.48	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:HD21	1.47	0.78
24:AY:157:LEU:N	24:AY:157:LEU:HD23	1.97	0.78
35:BA:299:A:H5'	35:BA:300:A:OP2	1.82	0.78
49:DQ:54:MET:HG2	49:DQ:64:ILE:HD13	1.65	0.78
26:B1:5:CYS:SG	26:B1:62:VAL:HA	2.22	0.78
36:BB:87:G:C3'	36:BB:88:C:H5"	2.13	0.78
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.63	0.78
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.49	0.78
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HG13	1.66	0.78
35:BA:904:C:H5'	35:BA:904:C:H6	1.47	0.78
33:B8:33:ASN:N	33:B8:33:ASN:HD22	1.79	0.78
38:DD:95:LEU:HD12	38:DD:103:ARG:O	1.83	0.78
50:DR:2:ARG:HD2	50:DR:5:LYS:HE2	1.65	0.78
22:CW:7:G:H5"	22:CW:50:G:OP2	1.84	0.78
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.83	0.78
42:DH:83:TYR:HB3	42:DH:135:GLY:H	1.49	0.78
15:AO:80:ALA:HB1	15:AO:84:LYS:HE2	1.66	0.78
13:AM:66:LEU:HD12	13:AM:66:LEU:N	1.97	0.78
27:B2:69:ARG:HH22	35:BA:111:A:C4'	1.96	0.78
31:D6:19:ARG:HG2	35:DA:2400:G:O5'	1.81	0.78
35:BA:142:A:H8	35:BA:1595:G:H21	1.31	0.78
36:DB:103:G:H21	58:DZ:73:GLN:NE2	1.81	0.78
42:DH:85:LYS:HE3	42:DH:145:ALA:HB1	1.66	0.78
58:BZ:77:ASP:O	58:BZ:79:ARG:N	2.15	0.78
24:CY:191:ASP:HB3	24:CY:265:LYS:HD2	1.65	0.78
7:CG:45:ASP:O	7:CG:49:ILE:HG12	1.84	0.78
37:BC:111:PHE:HE1	37:BC:137:LEU:HD13	1.48	0.78
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.64	0.78
41:BG:87:PRO:O	41:BG:88:ILE:HD12	1.83	0.78
33:D8:48:PHE:O	33:D8:49:VAL:HG13	1.83	0.78
24:CY:9:LEU:HD23	24:CY:9:LEU:O	1.82	0.78
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.64	0.78
2:AB:121:LEU:HD22	2:AB:126:GLU:HB2	1.65	0.78
29:D4:56:VAL:HG12	29:D4:56:VAL:O	1.82	0.78
9:AI:95:LYS:HD3	9:AI:96:LEU:N	1.98	0.78
38:DD:83:GLU:HB2	38:DD:92:ILE:HD11	1.65	0.78
12:AL:27:LEU:O	12:AL:29:GLY:N	2.15	0.78
35:BA:1434:A:H61	35:BA:1558:A:N6	1.81	0.78
24:AY:662:LYS:HZ3	42:BH:175:LYS:HG3	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:A:C5'	1:AA:510:A:OP2	2.30	0.78
54:DV:46:VAL:HG22	54:DV:47:VAL:H	1.49	0.78
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	1.84	0.78
35:BA:2476:A:C2'	35:BA:2477:C:H5"	2.13	0.78
26:D1:24:ALA:HB2	26:D1:32:LYS:HE3	1.66	0.78
50:BR:2:ARG:HD2	50:BR:5:LYS:HE2	1.66	0.78
28:B3:17:LYS:HZ3	28:B3:20:LYS:HE3	1.48	0.78
39:DE:50:GLY:HA2	39:DE:78:LEU:HB3	1.66	0.78
35:DA:1538:G:H2'	35:DA:1539:G:C8	2.18	0.78
29:B4:53:GLU:HB3	29:B4:55:ARG:NE	1.98	0.78
23:AX:15:A:H5'	23:AX:16:A:OP1	1.83	0.78
3:AC:152:ILE:HG22	3:AC:167:TRP:HA	1.65	0.78
38:DD:144:ALA:HB3	38:DD:192:THR:HG23	1.66	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:ND2	1.98	0.78
4:AD:13:ARG:O	4:AD:15:GLU:N	2.17	0.78
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.82	0.78
35:DA:1845:G:H2'	35:DA:1846:G:C5'	2.14	0.78
31:D6:37:ARG:NH1	35:DA:2286:A:N7	2.32	0.78
41:DG:76:SER:CB	41:DG:83:ARG:HB3	2.13	0.78
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.46	0.78
35:DA:1007:C:H4'	46:DN:108:PRO:HD3	1.66	0.78
50:DR:21:TYR:HB3	50:DR:47:PHE:CD2	2.19	0.78
36:DB:66:A:H61	36:DB:108:U:H2'	1.47	0.78
30:D5:27:PRO:HG3	55:DW:23:LEU:HD11	1.66	0.78
40:BF:157:VAL:CG2	40:BF:194:MET:HG2	2.13	0.78
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.19	0.78
54:DV:18:LEU:HD22	54:DV:19:LYS:N	1.97	0.78
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.83	0.78
35:BA:545:C:C2'	35:BA:547:A:H5"	2.14	0.78
52:BT:55:ASN:N	52:BT:59:THR:HG22	1.98	0.78
42:DH:149:ARG:HD3	42:DH:164:TYR:CE1	2.19	0.78
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.65	0.78
39:DE:1:MET:HB3	39:DE:200:GLU:OE1	1.84	0.78
24:AY:201:ILE:H	24:AY:201:ILE:HD12	1.49	0.78
24:AY:380:LEU:C	24:AY:381:LYS:HD2	2.04	0.78
1:AA:1238:A:H5'	1:AA:1336:C:N4	1.97	0.78
30:D5:44:THR:HG22	30:D5:45:VAL:H	1.49	0.78
48:DP:91:PHE:HD1	48:DP:91:PHE:H	1.30	0.78
48:BP:91:PHE:H	48:BP:91:PHE:HD1	1.28	0.78
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	1.99	0.78
29:D4:53:GLU:HB3	29:D4:55:ARG:HE	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1434:A:H61	35:DA:1558:A:N6	1.81	0.78
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.18	0.78
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.83	0.78
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.48	0.78
35:DA:2518:A:H5''	35:DA:2519:U:OP2	1.84	0.78
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.66	0.78
24:CY:230:LYS:NZ	24:CY:237:PRO:HA	1.98	0.78
48:BP:115:LEU:HA	48:BP:134:ALA:HB3	1.64	0.78
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.84	0.78
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	1.99	0.78
35:DA:1115:G:H2'	35:DA:1116:C:C6	2.19	0.78
42:DH:175:LYS:O	42:DH:176:ALA:CB	2.32	0.77
42:BH:170:ARG:O	42:BH:171:LEU:HB3	1.84	0.77
24:CY:84:THR:H	24:CY:85:PRO:CD	1.97	0.77
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HG13	1.65	0.77
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.65	0.77
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.13	0.77
53:BU:47:TYR:HA	53:BU:50:ARG:NH2	1.99	0.77
35:DA:83:G:HO2'	35:DA:84:A:H8	1.31	0.77
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.83	0.77
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.18	0.77
24:CY:238:THR:HG23	24:CY:241:GLU:H	1.48	0.77
27:D2:69:ARG:HH22	35:DA:111:A:C5'	1.97	0.77
3:AC:46:GLU:O	3:AC:47:LEU:HB2	1.83	0.77
1:AA:1225:A:N3	1:AA:1225:A:H2'	1.99	0.77
36:DB:87:G:C3'	36:DB:88:C:H5''	2.14	0.77
35:BA:1538:G:H2'	35:BA:1539:G:C8	2.18	0.77
35:DA:2657:A:H2'	35:DA:2658:C:H5'	1.65	0.77
35:DA:1578:U:H2'	35:DA:1579:A:H5''	1.66	0.77
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	1.99	0.77
1:CA:447:G:H2'	1:CA:485:G:N2	1.99	0.77
35:BA:556:G:H2'	35:BA:557:U:C6	2.19	0.77
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	1.99	0.77
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.48	0.77
22:CV:21:A:H61	22:CV:46:G:H2'	1.47	0.77
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.47	0.77
55:BW:59:VAL:HG12	55:BW:59:VAL:O	1.82	0.77
35:DA:2577:A:H5'	35:DA:2578:G:H5'	1.65	0.77
35:BA:1243:G:H1'	48:BP:8:PRO:HB3	1.65	0.77
35:BA:2262:U:H2'	35:BA:2263:C:C5'	2.15	0.77
11:AK:111:ASP:OD2	18:AR:84:LYS:HE2	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:9:ARG:HG2	10:AJ:69:ASN:OD1	1.84	0.77
35:BA:2020:A:C2'	35:BA:2021:C:H5''	2.14	0.77
35:DA:2463:C:O2'	35:DA:2464:C:H5'	1.84	0.77
36:BB:66:A:H61	36:BB:108:U:H2'	1.48	0.77
4:AD:114:ARG:HG3	4:AD:114:ARG:HH11	1.48	0.77
1:CA:1270:C:H2'	1:CA:1271:G:C8	2.19	0.77
22:AV:46:G:H4'	22:AV:47:U:C5	2.15	0.77
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.84	0.77
58:BZ:4:ARG:HH12	58:BZ:66:SER:HB2	1.50	0.77
44:DK:93:ARG:CB	58:DZ:112:ARG:HE	1.97	0.77
26:B1:76:ARG:NH1	26:B1:95:LEU:HD22	1.99	0.77
1:AA:328:C:O2	1:AA:328:C:H2'	1.84	0.77
9:CI:95:LYS:NZ	9:CI:96:LEU:HD12	1.99	0.77
35:DA:533:G:H5''	53:DU:24:TYR:CD2	2.19	0.77
30:D5:58:LEU:O	30:D5:58:LEU:HD22	1.85	0.77
35:BA:395:U:H2'	35:BA:396:G:C8	2.19	0.77
9:CI:104:ARG:O	9:CI:104:ARG:HG2	1.82	0.77
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.82	0.77
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.49	0.77
4:CD:13:ARG:O	4:CD:15:GLU:N	2.17	0.77
53:DU:47:TYR:HA	53:DU:50:ARG:NH2	1.99	0.77
53:BU:88:ILE:HG22	54:BV:47:VAL:O	1.84	0.77
56:DX:27:THR:HB	56:DX:80:ILE:HG22	1.66	0.77
35:DA:82:G:H5''	35:DA:296:C:H5'	1.65	0.77
35:BA:272(G):C:C2'	35:BA:272(H):C:H5''	2.14	0.77
35:DA:154(A):C:C5'	35:DA:155:U:H5''	2.13	0.77
48:DP:102:ARG:HB3	48:DP:102:ARG:NH2	1.99	0.77
54:BV:18:LEU:HD22	54:BV:19:LYS:N	1.99	0.77
10:CJ:96:ILE:H	10:CJ:96:ILE:HD13	1.48	0.77
40:DF:20:LEU:HD22	40:DF:23:ASP:OD2	1.83	0.77
13:AM:99:ARG:O	13:AM:101:GLN:HG3	1.84	0.77
22:CW:31:G:H2'	22:CW:32:G:H8	1.50	0.77
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.83	0.77
35:DA:2334:G:H5'	51:DS:13:ARG:HD3	1.67	0.77
22:AV:46:G:O3'	22:AV:47:U:H6	1.68	0.77
58:BZ:59:LEU:O	58:BZ:66:SER:HA	1.84	0.77
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	1.66	0.77
35:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.20	0.77
35:DA:1223:G:H3'	35:DA:1224:C:C5'	2.14	0.77
27:D2:47:ASN:HB2	35:DA:95:G:H1'	1.65	0.77
3:AC:150:LYS:HB2	3:AC:169:ALA:CB	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:110:VAL:HG12	53:BU:114:LYS:HD3	1.67	0.77
4:CD:152:SER:O	4:CD:155:LEU:HG	1.85	0.77
35:DA:364:C:H2'	35:DA:365:C:H5''	1.66	0.77
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.49	0.77
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.48	0.77
12:CL:20:LYS:H	12:CL:20:LYS:HD3	1.49	0.77
29:B4:56:VAL:O	29:B4:56:VAL:HG12	1.83	0.77
35:DA:1243:G:H1'	48:DP:8:PRO:HB3	1.64	0.77
53:DU:53:ARG:HA	53:DU:56:ASP:OD2	1.84	0.77
24:CY:174:PHE:CZ	24:CY:261:GLY:HA2	2.20	0.77
44:DK:100:THR:HA	44:DK:139:VAL:HB	1.66	0.77
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.85	0.77
41:DG:121:ASN:CB	41:DG:124:SER:HB2	2.14	0.77
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.14	0.77
24:CY:128:TYR:O	24:CY:129:LYS:HB2	1.83	0.77
35:DA:1434:A:H61	35:DA:1558:A:H62	1.31	0.77
54:DV:58:VAL:O	54:DV:97:LYS:HB2	1.84	0.77
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.65	0.77
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.49	0.77
24:AY:169:GLY:HA3	24:AY:173:THR:O	1.85	0.77
42:BH:171:LEU:HD23	42:BH:171:LEU:C	2.04	0.77
35:DA:904:C:H5'	35:DA:904:C:H6	1.47	0.77
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.13	0.77
22:CV:17:C:H5''	22:CV:17(A):U:C6	2.17	0.77
35:DA:1946:U:H2'	35:DA:1947:C:C6	2.19	0.77
35:BA:2657:A:H2'	35:BA:2658:C:H5'	1.66	0.77
38:BD:145:VAL:HG22	38:BD:191:ALA:HB1	1.64	0.77
1:AA:559:A:H4'	1:AA:560:U:H5'	1.66	0.77
58:DZ:37:VAL:O	58:DZ:38:TYR:HB3	1.85	0.77
35:BA:2778:A:H5'	35:BA:2779:U:OP1	1.84	0.77
46:BN:35:ARG:O	46:BN:37:LYS:N	2.17	0.77
24:AY:199:ILE:HD12	24:AY:199:ILE:O	1.85	0.77
29:B4:13:ARG:HB3	29:B4:13:ARG:HH11	1.48	0.77
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.50	0.77
1:CA:1238:A:H5'	1:CA:1336:C:N4	1.99	0.77
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.13	0.77
2:CB:31:TYR:HE1	2:CB:200:ILE:HD12	1.49	0.77
46:BN:96:GLU:N	46:BN:96:GLU:OE2	2.18	0.77
35:BA:533:G:H5''	53:BU:24:TYR:CE2	2.20	0.77
37:BC:90:ALA:HA	37:BC:155:ARG:NH1	2.00	0.77
35:DA:1053:C:C3'	35:DA:1054:A:H5''	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.19	0.77
36:BB:112:U:H2'	36:BB:113:G:H8	1.49	0.77
42:BH:153:LYS:HG3	42:BH:154:PRO:HD2	1.67	0.77
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.12	0.77
24:AY:180:VAL:HG23	24:AY:216:LEU:HD12	1.67	0.77
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.14	0.77
52:BT:28:VAL:CG2	52:BT:46:GLU:HG3	2.15	0.77
30:B5:44:THR:HG22	30:B5:45:VAL:H	1.48	0.77
39:DE:47:VAL:HG12	39:DE:48:GLN:N	2.00	0.77
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.14	0.77
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.98	0.77
57:DY:62:GLU:HG2	57:DY:63:LYS:H	1.50	0.77
41:DG:77:ILE:HG22	41:DG:80:PHE:N	2.00	0.77
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.66	0.77
35:DA:2068:U:N3	35:DA:2430:A:H2	1.83	0.77
46:DN:65:LYS:HB3	46:DN:69:GLN:HG3	1.67	0.77
1:CA:275:G:H5''	17:CQ:14:LYS:HB2	1.67	0.77
42:DH:171:LEU:C	42:DH:171:LEU:HD23	2.04	0.77
41:BG:68:PRO:CA	41:BG:92:VAL:HG12	2.12	0.77
53:DU:92:ARG:O	53:DU:94:ASN:N	2.18	0.77
30:D5:41:PRO:HG2	30:D5:44:THR:OG1	1.85	0.77
2:AB:22:LYS:H	2:AB:40:HIS:CE1	2.03	0.77
46:DN:35:ARG:O	46:DN:37:LYS:N	2.18	0.77
19:AS:64:GLU:HG2	29:B4:48:ARG:NH2	2.00	0.77
37:DC:90:ALA:HA	37:DC:155:ARG:NH1	2.00	0.77
35:DA:226:G:H4'	35:DA:227:A:OP1	1.83	0.77
41:BG:55:LYS:O	41:BG:58:GLN:HG3	1.85	0.76
41:BG:98:ARG:HH11	41:BG:98:ARG:HG2	1.48	0.76
58:DZ:166:SER:HB2	58:DZ:168:GLU:N	2.00	0.76
38:DD:261:LYS:NZ	38:DD:263:ARG:HH12	1.83	0.76
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.67	0.76
27:B2:69:ARG:HG3	27:B2:70:GLN:H	1.49	0.76
31:D6:27:LYS:HD2	31:D6:27:LYS:O	1.85	0.76
35:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.20	0.76
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.67	0.76
19:CS:64:GLU:HG2	29:D4:48:ARG:NH2	2.00	0.76
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.50	0.76
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	1.85	0.76
1:CA:309:G:H1'	1:CA:608:A:C2	2.20	0.76
24:CY:331:TYR:O	24:CY:371:ALA:HB1	1.84	0.76
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:104:ARG:HG2	9:AI:104:ARG:O	1.84	0.76
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.67	0.76
3:AC:3:ASN:O	3:AC:4:LYS:HB2	1.85	0.76
40:BF:20:LEU:HD22	40:BF:23:ASP:OD2	1.84	0.76
35:BA:1007:C:H4'	46:BN:108:PRO:HD3	1.67	0.76
42:DH:170:ARG:O	42:DH:171:LEU:HB3	1.84	0.76
24:CY:630:GLN:NE2	24:CY:646:PHE:HD2	1.84	0.76
54:BV:45:THR:O	54:BV:46:VAL:HG12	1.85	0.76
24:AY:415:PRO:HA	24:AY:474:ALA:CB	2.14	0.76
35:DA:2312:U:OP1	41:DG:73:ALA:HA	1.85	0.76
35:DA:962:G:O2'	35:DA:963:U:H5'	1.84	0.76
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.48	0.76
35:DA:1689:A:H62	35:DA:1698:A:H2	1.29	0.76
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.67	0.76
1:CA:179:A:H2'	1:CA:180:U:C6	2.20	0.76
22:CV:35:A:O2'	22:CV:36:U:H5'	1.85	0.76
37:BC:31:LYS:HE3	37:BC:179:ALA:O	1.84	0.76
35:BA:2076:U:H5'	35:BA:2238:G:H22	1.47	0.76
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.49	0.76
56:BX:8:ILE:H	56:BX:8:ILE:HD12	1.49	0.76
56:DX:12:VAL:HG12	56:DX:27:THR:HG23	1.67	0.76
41:DG:138:GLN:HB3	41:DG:153:ARG:O	1.86	0.76
3:AC:16:ARG:HH11	3:AC:16:ARG:CB	1.97	0.76
51:DS:34:HIS:CE1	51:DS:54:LEU:HB3	2.20	0.76
35:DA:545:C:C2'	35:DA:547:A:H5''	2.15	0.76
35:BA:108:U:H2'	35:BA:109:G:H8	1.47	0.76
42:BH:85:LYS:HE3	42:BH:145:ALA:HB1	1.65	0.76
52:DT:13:ARG:NH1	52:DT:13:ARG:HA	2.00	0.76
35:BA:979:G:H3'	35:BA:980:A:H5'	1.68	0.76
55:DW:29:LEU:CD1	55:DW:51:LEU:HD11	2.15	0.76
52:DT:32:TYR:CD2	52:DT:32:TYR:N	2.52	0.76
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.49	0.76
35:BA:2483:C:H3'	35:BA:2484:G:H5''	1.66	0.76
24:AY:67:ALA:HB1	24:AY:327:PHE:CZ	2.19	0.76
1:CA:194:C:H2'	1:CA:195:A:H5''	1.66	0.76
35:DA:1390:U:O2'	35:DA:1391:U:H5'	1.84	0.76
35:BA:1053:C:C3'	35:BA:1054:A:H5''	2.15	0.76
37:BC:101:ILE:O	37:BC:105:LEU:HB2	1.85	0.76
35:BA:1517:G:H8	35:BA:1517:G:H5'	1.48	0.76
1:AA:1270:C:H2'	1:AA:1271:G:C8	2.21	0.76
23:CX:12:A:H3'	23:CX:12:A:N3	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:84:A:H5''	57:BY:9:LYS:NZ	2.00	0.76
52:DT:65:LYS:HE3	52:DT:66:VAL:N	1.98	0.76
35:DA:1259:G:O2'	35:DA:1260:G:H5'	1.84	0.76
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.68	0.76
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.83	0.76
52:BT:83:ILE:HG13	52:BT:84:GLN:N	2.00	0.76
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.66	0.76
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.15	0.76
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.50	0.76
35:BA:1541:G:H4'	35:BA:1542:A:O5'	1.83	0.76
58:BZ:40:ASP:OD1	58:BZ:42:VAL:HG12	1.86	0.76
52:DT:129:ARG:NH2	52:DT:130:ALA:HA	2.00	0.76
6:AF:45:LEU:O	6:AF:46:ARG:HG3	1.84	0.76
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.48	0.76
1:CA:625:G:H2'	1:CA:626:U:H6	1.50	0.76
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.18	0.76
24:CY:92:ILE:CG2	24:CY:93:GLU:H	1.99	0.76
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.13	0.76
54:DV:40:LEU:HA	54:DV:45:THR:HB	1.66	0.76
53:BU:47:TYR:HA	53:BU:50:ARG:HH21	1.51	0.76
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.20	0.76
35:BA:2334:G:H5'	51:BS:13:ARG:HD3	1.67	0.76
1:AA:792:A:O2'	1:AA:794:A:N7	2.18	0.76
50:BR:63:ARG:HH22	50:BR:77:ARG:HG2	1.49	0.76
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.86	0.76
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.20	0.76
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.51	0.76
58:BZ:115:GLY:N	58:BZ:177:PRO:HG3	2.01	0.76
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.68	0.76
35:DA:218:A:H2	35:DA:235:U:H4'	1.51	0.76
1:AA:631:G:H2'	1:AA:632:A:C8	2.21	0.76
44:BK:17:ALA:CB	44:BK:38:VAL:HG22	2.16	0.76
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.18	0.76
36:BB:103:G:H5'	36:BB:104:U:OP2	1.85	0.76
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.21	0.76
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	1.86	0.76
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.06	0.76
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.20	0.76
30:D5:3:LYS:HD2	30:D5:5:PRO:HD2	1.66	0.76
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.14	0.76
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:93:ARG:HB2	58:BZ:112:ARG:HH21	1.50	0.76
36:DB:82:G:O2'	36:DB:83:G:H5'	1.85	0.76
35:DA:1517:G:H8	35:DA:1517:G:H5'	1.51	0.76
13:CM:99:ARG:O	13:CM:101:GLN:HG3	1.86	0.76
56:DX:8:ILE:H	56:DX:8:ILE:HD12	1.50	0.76
35:BA:82:G:H5''	35:BA:296:C:H5'	1.67	0.76
1:AA:194:C:H2'	1:AA:195:A:H5''	1.67	0.76
44:DK:17:ALA:HB3	44:DK:38:VAL:HG22	1.68	0.76
24:AY:21:ILE:HG21	24:AY:88:VAL:HG13	1.67	0.76
38:DD:35:LYS:CG	38:DD:63:ARG:HG3	2.15	0.76
31:B6:27:LYS:HB3	31:B6:32:ASN:ND2	2.01	0.76
5:CE:87:SER:HB3	5:CE:131:ILE:CD1	2.14	0.76
35:BA:154(A):C:C5'	35:BA:155:U:H5''	2.14	0.76
35:BA:2807:G:H1	35:BA:2893:G:H1	1.33	0.76
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.68	0.76
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.00	0.76
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.86	0.76
49:BQ:59:ARG:HB3	58:BZ:180:VAL:HG21	1.67	0.76
35:BA:1223:G:H3'	35:BA:1224:C:C5'	2.15	0.76
4:AD:152:SER:O	4:AD:155:LEU:HG	1.85	0.76
50:BR:21:TYR:HB3	50:BR:47:PHE:CD2	2.20	0.76
35:DA:882:G:H2'	35:DA:883:G:C8	2.20	0.76
35:BA:654(S):G:H3'	35:BA:654(T):C:C5'	2.16	0.76
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.68	0.76
24:CY:592:GLU:HA	24:CY:595:GLN:HB2	1.68	0.76
3:AC:142:MET:HE2	3:AC:171:GLY:HA3	1.67	0.76
41:BG:86:MET:N	41:BG:87:PRO:HD3	2.00	0.76
61:CY:702:FUA:C12	61:CY:702:FUA:H231	2.15	0.76
33:B8:48:PHE:O	33:B8:49:VAL:HG22	1.85	0.76
52:BT:115:ARG:HB3	52:BT:115:ARG:NH1	2.00	0.76
26:D1:46:LEU:HD22	26:D1:46:LEU:N	2.01	0.76
52:DT:38:ASN:C	52:DT:38:ASN:ND2	2.40	0.76
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.85	0.76
11:CK:111:ASP:OD2	18:CR:84:LYS:HE2	1.85	0.76
26:D1:86:SER:O	26:D1:90:ILE:HG12	1.85	0.76
42:BH:85:LYS:C	42:BH:85:LYS:HD3	2.06	0.76
42:DH:85:LYS:HD3	42:DH:85:LYS:C	2.06	0.76
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.68	0.76
24:CY:548:GLU:O	24:CY:551:GLN:HG2	1.85	0.76
3:CC:142:MET:HE2	3:CC:171:GLY:HA3	1.67	0.76
37:DC:101:ILE:O	37:DC:105:LEU:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.51	0.76
1:CA:103:C:H3'	1:CA:104:G:H8	1.50	0.76
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.50	0.76
30:D5:25:LEU:HD12	55:DW:19:LEU:HB3	1.67	0.76
24:AY:238:THR:HG22	24:AY:241:GLU:CG	2.16	0.76
53:BU:92:ARG:O	53:BU:94:ASN:N	2.18	0.76
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.01	0.76
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.00	0.76
41:DG:67:LYS:HD3	41:DG:68:PRO:N	2.00	0.76
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.50	0.76
27:D2:10:LEU:O	27:D2:14:ARG:HG2	1.86	0.76
46:BN:57:ALA:H	46:BN:124:ALA:HA	1.50	0.76
51:DS:96:GLY:O	51:DS:98:VAL:N	2.18	0.76
54:BV:58:VAL:O	54:BV:97:LYS:HB2	1.85	0.76
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.20	0.76
1:AA:309:G:H1'	1:AA:608:A:C2	2.21	0.76
38:BD:144:ALA:HB3	38:BD:192:THR:HG23	1.66	0.76
35:BA:2636:U:H4'	39:BE:80:GLU:OE1	1.86	0.76
35:BA:882:G:H2'	35:BA:883:G:C8	2.20	0.76
41:BG:106:LEU:HA	41:BG:110:ALA:HB3	1.66	0.76
10:AJ:71:LEU:HD12	10:AJ:72:VAL:H	1.51	0.76
10:AJ:3:LYS:HZ2	10:AJ:76:ASN:HA	1.51	0.76
27:B2:69:ARG:CG	27:B2:70:GLN:H	1.99	0.76
31:D6:11:LEU:HG	31:D6:26:ASN:HD21	1.51	0.76
33:D8:13:ARG:HD3	48:DP:61:ARG:O	1.86	0.76
52:DT:115:ARG:HB3	52:DT:115:ARG:NH1	2.01	0.76
50:BR:87:TYR:O	50:BR:89:ASP:N	2.19	0.76
28:D3:8:LEU:HD22	28:D3:31:LEU:CD2	2.14	0.76
35:DA:142:A:H8	35:DA:1595:G:H21	1.32	0.76
10:AJ:54:PHE:CG	10:AJ:55:LYS:HE3	2.20	0.76
35:BA:676:A:H1'	35:BA:2443:C:H1'	1.68	0.76
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.20	0.76
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.00	0.76
35:DA:674:G:H1'	40:DF:74:ARG:HD3	1.68	0.76
35:DA:556:G:H2'	35:DA:557:U:C6	2.21	0.76
36:DB:112:U:H2'	36:DB:113:G:H8	1.49	0.76
53:DU:54:LYS:O	53:DU:58:ARG:HG3	1.86	0.75
24:CY:227:ILE:HG23	24:CY:237:PRO:HG2	1.67	0.75
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.16	0.75
48:DP:95:VAL:HA	48:DP:99:LEU:HD23	1.67	0.75
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1206:G:H4'	3:CC:192:THR:O	1.86	0.75
35:DA:979:G:H3'	35:DA:980:A:H5'	1.68	0.75
39:DE:200:GLU:N	39:DE:200:GLU:OE2	2.17	0.75
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.68	0.75
35:BA:286:C:H6	35:BA:286:C:H5'	1.51	0.75
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.68	0.75
55:BW:29:LEU:HD11	55:BW:51:LEU:HD11	1.67	0.75
41:BG:97:ASP:HB2	41:BG:98:ARG:NH1	2.00	0.75
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.51	0.75
38:BD:261:LYS:NZ	38:BD:263:ARG:HH12	1.85	0.75
51:DS:13:ARG:CG	51:DS:14:VAL:H	1.93	0.75
33:D8:56:GLU:HA	33:D8:59:LYS:HZ1	1.48	0.75
24:CY:137:ASN:HD21	24:CY:263:ALA:HB3	1.50	0.75
52:DT:28:VAL:CG2	52:DT:46:GLU:HA	2.15	0.75
41:BG:172:LEU:CD2	41:BG:176:LEU:HD11	2.16	0.75
5:AE:87:SER:HB3	5:AE:131:ILE:CD1	2.16	0.75
41:DG:107:LEU:HD11	41:DG:178:PHE:CE1	2.21	0.75
46:DN:23:LEU:HB3	46:DN:60:ILE:HG21	1.68	0.75
27:D2:6:VAL:HA	27:D2:9:GLN:OE1	1.86	0.75
34:D9:27:CYS:SG	34:D9:28:GLU:N	2.60	0.75
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.50	0.75
49:BQ:6:ARG:O	49:BQ:7:MET:HG3	1.84	0.75
35:BA:840:C:H2'	35:BA:841:A:H5''	1.69	0.75
24:CY:289:ILE:HG22	24:CY:290:LYS:N	2.01	0.75
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.01	0.75
42:BH:149:ARG:HD3	42:BH:164:TYR:CE1	2.21	0.75
24:AY:6:GLU:O	24:AY:6:GLU:HG2	1.86	0.75
35:BA:878:A:H2'	35:BA:879:G:O4'	1.87	0.75
54:DV:45:THR:O	54:DV:46:VAL:HG12	1.85	0.75
24:AY:281:PRO:HB2	24:AY:286:ILE:CD1	2.15	0.75
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.51	0.75
40:DF:157:VAL:CG2	40:DF:194:MET:HG2	2.16	0.75
41:DG:39:ILE:HA	41:DG:156:ASP:O	1.86	0.75
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.85	0.75
48:BP:95:VAL:HA	48:BP:99:LEU:HD23	1.68	0.75
34:D9:18:ARG:O	34:D9:18:ARG:HG2	1.86	0.75
35:DA:2789:C:H1'	35:DA:2892:A:C2	2.21	0.75
19:CS:14:HIS:HD2	19:CS:15:LEU:HD23	1.50	0.75
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.51	0.75
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.00	0.75
44:BK:17:ALA:HB3	44:BK:38:VAL:HG22	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:129:ARG:NH2	52:BT:130:ALA:HA	2.01	0.75
35:DA:840:C:H2'	35:DA:841:A:H5''	1.68	0.75
4:AD:61:LYS:HE2	4:AD:62:GLN:HE21	1.52	0.75
29:D4:13:ARG:HH11	29:D4:13:ARG:HB3	1.50	0.75
35:BA:991:C:H6	35:BA:991:C:H5'	1.50	0.75
24:AY:363:ARG:HH11	24:AY:363:ARG:HG3	1.51	0.75
22:CW:41:C:O2'	22:CW:42:C:H5'	1.86	0.75
42:BH:175:LYS:O	42:BH:176:ALA:CB	2.33	0.75
53:DU:47:TYR:HA	53:DU:50:ARG:HH21	1.51	0.75
53:DU:112:ARG:HH22	54:DV:46:VAL:HG11	1.49	0.75
31:B6:5:VAL:HG12	31:B6:6:ARG:O	1.86	0.75
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.67	0.75
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.86	0.75
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.68	0.75
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.68	0.75
3:AC:86:VAL:O	3:AC:89:GLU:HB3	1.85	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.51	0.75
46:BN:67:LEU:O	46:BN:68:GLU:HB2	1.86	0.75
24:CY:491:VAL:HG13	24:CY:596:LYS:HE2	1.67	0.75
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.18	0.75
35:DA:2461:C:H5'	35:DA:2462:U:OP2	1.85	0.75
35:DA:2020:A:C2'	35:DA:2021:C:H5''	2.17	0.75
16:AP:25:ARG:HH11	16:AP:25:ARG:HG3	1.51	0.75
58:DZ:182:LYS:O	58:DZ:183:LEU:HD23	1.86	0.75
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.85	0.75
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	1.68	0.75
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.87	0.75
36:BB:87:G:H3'	36:BB:88:C:H5''	1.68	0.75
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.66	0.75
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.68	0.75
35:DA:676:A:H8	35:DA:2069:G:H21	1.32	0.75
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.22	0.75
54:DV:77:ALA:O	54:DV:79:VAL:HG23	1.87	0.75
14:AN:27:CYS:HG	59:AN:101:ZN:ZN	0.95	0.75
24:CY:16:GLY:O	24:CY:104:ALA:HB1	1.86	0.75
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.68	0.75
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.85	0.75
13:AM:6:GLY:C	13:AM:8:GLU:H	1.90	0.75
35:DA:2178:C:H4'	37:DC:47:LYS:HD3	1.68	0.75
35:DA:83:G:O2'	35:DA:84:A:H8	1.68	0.75
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.22	0.75
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.01	0.75
35:BA:1946:U:H2'	35:BA:1947:C:C6	2.22	0.75
16:AP:74:LEU:HD23	16:AP:79:VAL:HG21	1.68	0.75
35:BA:2666:C:H5'	35:BA:2667:C:OP2	1.87	0.75
35:BA:279:C:H2'	35:BA:280:C:H5''	1.68	0.75
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.52	0.75
1:CA:559:A:H4'	1:CA:560:U:H5'	1.68	0.75
35:DA:286:C:H6	35:DA:286:C:H5'	1.52	0.75
5:AE:81:GLU:HG2	5:AE:90:VAL:HG22	1.68	0.75
36:BB:48:A:H4'	51:BS:95:HIS:HD2	1.50	0.75
24:AY:453:GLY:HA3	24:AY:459:LEU:CD1	2.16	0.75
48:BP:126:VAL:HA	48:BP:145:PRO:CB	2.16	0.75
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.68	0.75
35:BA:2308:G:O6	35:BA:2310:A:H2'	1.87	0.75
52:BT:118:ARG:HA	52:BT:121:ILE:HB	1.67	0.75
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.67	0.75
35:BA:676:A:H8	35:BA:2069:G:H21	1.33	0.75
1:CA:625:G:H2'	1:CA:626:U:C6	2.21	0.75
26:D1:92:LYS:HE2	35:DA:153:C:OP1	1.87	0.75
22:AV:53:G:O2'	22:AV:54:5MU:H5''	1.86	0.75
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.86	0.75
24:CY:517:LEU:HD11	24:CY:564:LYS:HB2	1.68	0.75
46:BN:65:LYS:HB3	46:BN:69:GLN:HG3	1.68	0.75
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.49	0.75
41:BG:145:THR:HG23	41:BG:148:MET:HB2	1.66	0.75
24:AY:215:LYS:O	24:AY:219:VAL:HG23	1.86	0.75
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.68	0.75
58:BZ:166:SER:HB2	58:BZ:167:PRO:CA	2.17	0.75
50:DR:87:TYR:O	50:DR:89:ASP:N	2.19	0.75
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.00	0.75
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.68	0.75
19:AS:14:HIS:HD2	19:AS:15:LEU:HD23	1.52	0.75
19:AS:44:MET:SD	19:AS:44:MET:N	2.59	0.75
24:CY:170:ARG:HD2	24:CY:170:ARG:N	2.00	0.75
1:CA:178:C:O2'	1:CA:179:A:H5'	1.85	0.75
44:DK:17:ALA:CB	44:DK:38:VAL:HG22	2.17	0.75
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.51	0.75
7:AG:145:ALA:O	7:AG:146:GLU:HB2	1.85	0.75
35:DA:2666:C:H5'	35:DA:2667:C:OP2	1.86	0.75
35:DA:395:U:H2'	35:DA:396:G:C8	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:18:GLU:HB2	42:BH:25:LYS:HB2	1.67	0.75
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.21	0.75
24:CY:149:VAL:O	24:CY:152:THR:HG22	1.87	0.75
48:DP:126:VAL:HA	48:DP:145:PRO:CB	2.16	0.75
14:CN:41:ARG:HH11	14:CN:41:ARG:HG2	1.52	0.75
36:DB:86:G:H2'	36:DB:87:G:C8	2.22	0.75
46:DN:67:LEU:O	46:DN:68:GLU:HB2	1.85	0.75
36:BB:86:G:H2'	36:BB:87:G:C8	2.21	0.75
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.69	0.75
6:CF:45:LEU:O	6:CF:46:ARG:HG3	1.87	0.75
24:AY:313:ALA:HA	24:AY:328:ILE:HG22	1.67	0.75
32:D7:23:ARG:C	32:D7:28:ARG:HH12	1.89	0.75
1:AA:1206:G:H4'	3:AC:192:THR:O	1.87	0.75
37:BC:28:ARG:HG2	37:BC:183:PRO:HB3	1.68	0.75
35:DA:2852:G:H2'	35:DA:2853:C:C6	2.22	0.75
26:D1:7:ILE:HG22	26:D1:66:HIS:HD2	1.49	0.75
48:DP:7:ARG:O	48:DP:10:PRO:HD2	1.86	0.74
41:BG:98:ARG:NH1	41:BG:98:ARG:HG2	2.01	0.74
24:CY:21:ILE:O	24:CY:22:ASP:HB2	1.84	0.74
61:CY:702:FUA:C5	61:CY:702:FUA:H202	2.14	0.74
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.69	0.74
38:BD:35:LYS:CG	38:BD:63:ARG:HG3	2.17	0.74
31:D6:35:GLU:CB	31:D6:51:GLU:HB2	2.17	0.74
48:BP:16:ARG:HB2	48:BP:16:ARG:NH1	2.02	0.74
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.16	0.74
35:DA:108:U:H2'	35:DA:109:G:H8	1.50	0.74
57:BY:62:GLU:HG2	57:BY:63:LYS:H	1.52	0.74
12:CL:27:LEU:O	12:CL:29:GLY:N	2.20	0.74
35:DA:2195:C:O2'	35:DA:2196:C:H5'	1.87	0.74
12:AL:80:HIS:O	12:AL:81:SER:HB2	1.86	0.74
4:AD:160:GLN:O	4:AD:163:GLU:HB3	1.87	0.74
1:AA:382:A:H2'	1:AA:383:A:C8	2.22	0.74
34:B9:27:CYS:SG	34:B9:28:GLU:N	2.60	0.74
37:DC:23:ILE:HB	37:DC:229:SER:OXT	1.87	0.74
35:BA:654(G):C:H2'	35:BA:654(H):G:H8	1.51	0.74
35:DA:548:A:H2'	35:DA:549:G:H5'	1.67	0.74
32:B7:19:ARG:HD3	35:BA:125:G:H5'	1.69	0.74
22:CV:2:G:C5'	25:D0:8:GLY:HA2	2.17	0.74
24:CY:486:THR:O	24:CY:600:VAL:HG12	1.87	0.74
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.20	0.74
41:BG:60:LEU:O	41:BG:63:ILE:HD11	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2392:A:H8	48:BP:60:MET:HB3	1.50	0.74
35:DA:297:C:H2'	35:DA:298:G:O4'	1.87	0.74
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.68	0.74
24:CY:33:LEU:HD23	24:CY:360:ALA:CB	2.16	0.74
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.16	0.74
24:CY:546:ILE:CD1	24:CY:565:VAL:HG11	2.17	0.74
24:AY:428:LEU:CD1	24:AY:440:VAL:HG11	2.17	0.74
39:BE:49:LEU:HD22	39:BE:49:LEU:N	2.01	0.74
47:BO:17:ARG:NE	47:BO:47:ILE:HD11	2.02	0.74
46:DN:58:ASP:C	46:DN:60:ILE:H	1.91	0.74
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.17	0.74
53:DU:110:VAL:HG12	53:DU:114:LYS:CD	2.17	0.74
35:DA:2122:U:H2'	35:DA:2123:G:H8	1.51	0.74
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.87	0.74
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.21	0.74
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.22	0.74
35:DA:49:A:H5''	35:DA:51:G:O4'	1.88	0.74
35:BA:751:A:H5'	55:BW:90:ARG:HA	1.69	0.74
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE2	2.05	0.74
50:DR:62:ALA:O	50:DR:66:VAL:HG23	1.87	0.74
37:BC:23:ILE:HB	37:BC:229:SER:OXT	1.86	0.74
56:BX:27:THR:HB	56:BX:80:ILE:HG22	1.68	0.74
24:CY:25:LYS:HE2	24:CY:86:GLY:H	1.52	0.74
53:BU:112:ARG:HH22	54:BV:46:VAL:HG11	1.52	0.74
53:BU:54:LYS:O	53:BU:58:ARG:HG3	1.86	0.74
61:AY:702:FUA:H202	61:AY:702:FUA:C5	2.15	0.74
35:DA:1748:G:H8	35:DA:1748:G:H5'	1.51	0.74
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ3	1.50	0.74
3:CC:86:VAL:O	3:CC:89:GLU:HB3	1.88	0.74
51:BS:34:HIS:CE1	51:BS:54:LEU:HB3	2.22	0.74
40:BF:195:ASP:OD1	40:BF:196:LEU:N	2.18	0.74
30:D5:55:ARG:HH22	50:DR:33:ARG:HG2	1.53	0.74
12:AL:41:ARG:CG	12:AL:42:THR:H	1.98	0.74
27:D2:47:ASN:ND2	35:DA:94(A):G:H21	1.85	0.74
33:B8:2:PRO:HA	35:BA:591:C:O2	1.86	0.74
41:BG:108:ASN:O	41:BG:109:VAL:HG23	1.87	0.74
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.15	0.74
24:AY:423:LYS:HB3	24:AY:472:VAL:CG2	2.17	0.74
58:DZ:29:TYR:HB3	58:DZ:34:ASN:CB	2.16	0.74
35:BA:83:G:O2'	35:BA:84:A:H8	1.69	0.74
48:DP:47:ASP:HB3	48:DP:48:PRO:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.00	0.74
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.70	0.74
50:DR:9:LYS:O	50:DR:10:LEU:HD23	1.85	0.74
24:CY:529:ILE:HD11	24:CY:567:LEU:HD11	1.68	0.74
35:DA:676:A:H1'	35:DA:2443:C:H1'	1.68	0.74
35:DA:878:A:H2'	35:DA:879:G:O4'	1.87	0.74
35:BA:548:A:H2'	35:BA:549:G:H5'	1.67	0.74
7:CG:145:ALA:O	7:CG:146:GLU:HB2	1.87	0.74
42:DH:96:ALA:HB1	42:DH:103:LEU:HD11	1.68	0.74
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.51	0.74
24:AY:446:THR:O	24:AY:448:GLN:HG2	1.87	0.74
35:BA:1220:A:H3'	35:BA:1221:C:H5'	1.69	0.74
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.23	0.74
10:AJ:82:ILE:O	10:AJ:86:MET:HB2	1.87	0.74
24:AY:165:GLN:HB2	24:AY:260:LEU:HD11	1.69	0.74
24:AY:25:LYS:HE3	62:AY:703:GDP:PB	2.27	0.74
35:DA:84:A:H5''	57:DY:9:LYS:NZ	2.02	0.74
31:D6:6:ARG:N	31:D6:6:ARG:HD2	2.02	0.74
36:BB:7:G:C2'	36:BB:8:U:H5''	2.16	0.74
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.53	0.74
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.87	0.74
42:DH:85:LYS:HZ3	42:DH:87:LEU:HG	1.53	0.74
35:BA:2020:A:O2'	35:BA:2021:C:H5''	1.87	0.74
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.02	0.74
9:AI:47:LEU:N	9:AI:47:LEU:HD12	2.03	0.74
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.69	0.74
1:AA:294:U:H2'	1:AA:295:C:H6	1.52	0.74
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.01	0.74
35:DA:1001:A:H2'	35:DA:1002:G:O4'	1.87	0.74
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.51	0.74
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.17	0.74
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.53	0.74
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.69	0.74
5:CE:9:LYS:CB	5:CE:112:LEU:HD11	2.18	0.74
36:DB:87:G:H3'	36:DB:88:C:H5''	1.69	0.74
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.69	0.74
19:AS:9:VAL:O	19:AS:11:VAL:N	2.21	0.74
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.70	0.74
35:DA:1220:A:H3'	35:DA:1221:C:H5'	1.68	0.74
1:AA:275:G:H5''	17:AQ:14:LYS:HB2	1.68	0.74
58:DZ:97:GLU:HG3	58:DZ:127:LYS:HD3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.86	0.74
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.87	0.74
1:AA:179:A:H2'	1:AA:180:U:C6	2.22	0.74
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.53	0.74
51:BS:95:HIS:CG	51:BS:96:GLY:H	2.06	0.74
3:CC:58:GLU:O	3:CC:59:ARG:HG3	1.87	0.74
5:CE:76:ILE:HG13	5:CE:142:LEU:HD13	1.70	0.74
35:DA:580:C:H2'	35:DA:581:C:H6	1.53	0.74
34:B9:18:ARG:O	34:B9:18:ARG:HG2	1.87	0.74
39:DE:11:MET:HB2	39:DE:23:VAL:O	1.88	0.74
23:AX:19:U:H5''	24:AY:504:ARG:HD3	1.68	0.74
35:BA:2461:C:H5'	35:BA:2462:U:OP2	1.87	0.74
4:CD:61:LYS:HE2	4:CD:62:GLN:HE21	1.52	0.74
35:DA:2132:U:C4	37:DC:6:LYS:HD2	2.23	0.74
28:D3:56:VAL:HG12	28:D3:57:GLU:H	1.52	0.74
24:AY:225:GLU:HB2	24:AY:228:MET:HE1	1.69	0.74
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.53	0.74
42:BH:171:LEU:CD2	42:BH:172:LYS:O	2.35	0.74
24:CY:454:MET:H	24:CY:458:HIS:CD2	2.04	0.74
3:AC:58:GLU:O	3:AC:59:ARG:HG3	1.86	0.74
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.01	0.74
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.88	0.74
44:DK:57:ILE:HD12	44:DK:57:ILE:H	1.52	0.74
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.53	0.74
35:BA:1996:C:H4'	35:BA:1997:G:H5'	1.68	0.74
35:DA:279:C:H2'	35:DA:280:C:H5''	1.70	0.74
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.13	0.74
31:B6:27:LYS:O	31:B6:27:LYS:HD2	1.87	0.74
1:AA:1004:A:N6	1:AA:1034:G:H2'	2.02	0.74
27:B2:69:ARG:HG3	27:B2:70:GLN:N	2.03	0.74
10:CJ:48:THR:HG23	10:CJ:62:HIS:ND1	2.03	0.74
26:D1:76:ARG:NH2	26:D1:95:LEU:HD13	2.00	0.74
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.52	0.74
53:BU:110:VAL:HG12	53:BU:114:LYS:CD	2.18	0.74
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.88	0.74
56:DX:8:ILE:N	56:DX:8:ILE:HD12	2.03	0.74
30:B5:58:LEU:O	30:B5:58:LEU:HD22	1.88	0.74
35:DA:745:G:H5'	35:DA:746:A:OP2	1.88	0.74
1:CA:382:A:H2'	1:CA:383:A:C8	2.23	0.74
35:BA:2577:A:H5'	35:BA:2578:G:H5'	1.69	0.74
24:CY:673:PHE:CG	24:CY:674:ASP:N	2.55	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:21:VAL:O	16:CP:33:ILE:HB	1.88	0.74
35:DA:2392:A:H8	48:DP:60:MET:HB3	1.52	0.74
41:DG:46:ALA:CB	41:DG:88:ILE:HB	2.16	0.74
52:BT:28:VAL:CG2	52:BT:46:GLU:HA	2.17	0.74
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.01	0.74
31:B6:41:PRO:HD2	31:B6:45:LYS:O	1.88	0.74
54:BV:15:GLU:CB	54:BV:16:PRO:HD2	2.18	0.74
39:BE:36:ARG:HH21	39:BE:88:GLY:CA	2.00	0.74
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.50	0.74
1:AA:953:G:H5'	1:AA:965:A:H61	1.53	0.74
27:D2:4:SER:HA	27:D2:7:ARG:NH1	2.02	0.74
25:D0:60:PHE:HE2	35:DA:2365:G:H4'	1.50	0.74
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.52	0.74
1:CA:1342:C:O2'	1:CA:1343:G:H5'	1.88	0.74
35:DA:1053:C:H2'	35:DA:1054:A:H5''	1.69	0.74
40:DF:65:TRP:HZ3	40:DF:75:HIS:HD2	1.35	0.74
24:AY:512:ILE:HD12	24:AY:589:ALA:HB1	1.69	0.74
44:DK:42:ASN:O	44:DK:46:ALA:HB2	1.88	0.74
35:BA:914:C:H2'	35:BA:915:C:H5'	1.69	0.74
44:BK:42:ASN:O	44:BK:46:ALA:HB2	1.87	0.74
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.03	0.74
38:DD:34:VAL:HG23	38:DD:35:LYS:N	2.03	0.73
48:BP:62:LEU:CD2	48:BP:62:LEU:H	2.01	0.73
41:DG:42:GLY:HA2	41:DG:89:GLY:HA2	1.69	0.73
35:DA:2470:G:P	49:DQ:56:ARG:HH12	2.11	0.73
35:BA:580:C:H2'	35:BA:581:C:H6	1.53	0.73
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.88	0.73
2:CB:204:ASN:C	2:CB:204:ASN:HD22	1.91	0.73
26:B1:45:ASN:HD22	26:B1:45:ASN:C	1.90	0.73
35:BA:1434:A:H61	35:BA:1558:A:H62	1.31	0.73
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CD1	2.18	0.73
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.01	0.73
35:BA:419:C:H2'	35:BA:420:C:H6	1.53	0.73
34:D9:36:GLN:OE1	35:DA:1124:C:H1'	1.87	0.73
29:B4:8:LYS:O	29:B4:9:LEU:HB2	1.87	0.73
54:BV:46:VAL:HG22	54:BV:47:VAL:H	1.51	0.73
31:B6:6:ARG:HD2	31:B6:6:ARG:N	2.03	0.73
38:BD:35:LYS:HD2	38:BD:35:LYS:C	2.09	0.73
58:DZ:12:GLY:HA2	58:DZ:36:LYS:NZ	2.03	0.73
38:DD:243:GLY:O	38:DD:244:ARG:HB3	1.88	0.73
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:98:VAL:C	51:BS:100:ALA:H	1.92	0.73
44:DK:93:ARG:HB2	58:DZ:112:ARG:NE	2.01	0.73
39:BE:47:VAL:HG12	39:BE:48:GLN:N	2.02	0.73
35:BA:2796:U:H3'	35:BA:2799:C:C5'	2.18	0.73
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	1.88	0.73
35:BA:654(S):G:H3'	35:BA:654(T):C:H5''	1.69	0.73
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.86	0.73
41:BG:77:ILE:CG2	41:BG:80:PHE:H	1.90	0.73
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.18	0.73
3:CC:46:GLU:O	3:CC:47:LEU:HB2	1.85	0.73
31:D6:41:PRO:HD2	31:D6:45:LYS:O	1.87	0.73
35:BA:1948:G:C8	35:BA:1948:G:H5'	2.24	0.73
27:D2:36:ARG:HA	27:D2:39:ALA:HB3	1.69	0.73
35:BA:218:A:H2	35:BA:235:U:H4'	1.50	0.73
35:DA:1996:C:H4'	35:DA:1997:G:H5'	1.70	0.73
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.51	0.73
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	1.88	0.73
50:BR:62:ALA:O	50:BR:66:VAL:HG23	1.88	0.73
35:BA:1390:U:O2'	35:BA:1391:U:H5'	1.88	0.73
30:B5:27:PRO:HG3	55:BW:23:LEU:HD11	1.70	0.73
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.23	0.73
24:AY:406:GLU:HB3	24:AY:407:PRO:HD2	1.71	0.73
22:AW:8:U:H3	22:AW:14:A:H62	1.33	0.73
1:CA:792:A:O2'	1:CA:794:A:N7	2.20	0.73
38:DD:65:ILE:HG22	38:DD:104:TYR:CB	2.19	0.73
35:DA:662:G:OP1	48:DP:18:ARG:HD2	1.88	0.73
41:DG:131:TYR:HE2	41:DG:133:LEU:HD23	1.52	0.73
18:AR:29:PHE:CD2	18:AR:29:PHE:N	2.56	0.73
11:AK:122:LYS:O	11:AK:124:LYS:N	2.22	0.73
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.19	0.73
52:BT:5:ALA:O	52:BT:7:ILE:N	2.21	0.73
36:BB:3:C:N4	36:BB:118:G:H1	1.86	0.73
24:CY:102:ASP:O	24:CY:131:PRO:HD2	1.88	0.73
24:CY:428:LEU:H	24:CY:428:LEU:HD23	1.54	0.73
35:DA:288:C:H2'	35:DA:289:A:C8	2.24	0.73
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.02	0.73
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.22	0.73
2:CB:83:MET:HG3	2:CB:234:PRO:HG3	1.69	0.73
24:AY:128:TYR:O	24:AY:129:LYS:HB2	1.88	0.73
55:BW:78:GLU:OE2	55:BW:99:ARG:HD2	1.89	0.73
36:BB:13:A:O2'	36:BB:14:U:H3'	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:606:MET:O	24:CY:646:PHE:HA	1.89	0.73
48:BP:47:ASP:HB3	48:BP:48:PRO:HA	1.70	0.73
48:BP:58:THR:O	48:BP:61:ARG:NE	2.19	0.73
41:BG:131:TYR:HB3	41:BG:159:VAL:HG13	1.71	0.73
31:B6:15:GLU:OE2	31:B6:44:ARG:NH1	2.21	0.73
46:BN:58:ASP:C	46:BN:60:ILE:H	1.92	0.73
13:AM:78:ILE:HA	13:AM:81:LEU:HD23	1.71	0.73
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.69	0.73
35:DA:545:C:C3'	35:DA:547:A:H5''	2.19	0.73
35:BA:2470:G:P	49:BQ:56:ARG:HH12	2.11	0.73
44:BK:93:ARG:HG3	58:BZ:112:ARG:HE	1.53	0.73
35:DA:1540:U:H3'	35:DA:1541:G:H3'	1.70	0.73
40:DF:139:PHE:HB2	40:DF:166:ALA:HB1	1.68	0.73
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	1.89	0.73
30:B5:25:LEU:HD12	55:BW:19:LEU:HB3	1.70	0.73
35:BA:1689:A:H62	35:BA:1698:A:H2	1.33	0.73
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.69	0.73
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.20	0.73
1:CA:731:G:OP1	1:CA:766:A:H1'	1.88	0.73
46:BN:26:LEU:HD12	46:BN:26:LEU:C	2.09	0.73
35:BA:64:A:C4	56:BX:66:LEU:HD13	2.24	0.73
25:B0:77:ARG:HH22	35:BA:857:C:H5'	1.53	0.73
35:BA:120:U:O2	35:BA:120:U:H2'	1.87	0.73
35:DA:654(M):C:HO2'	35:DA:654(N):G:H8	1.36	0.73
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	1.53	0.73
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.52	0.73
1:AA:447:G:H2'	1:AA:485:G:N2	2.03	0.73
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.88	0.73
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.73
31:D6:5:VAL:HG12	31:D6:6:ARG:O	1.88	0.73
58:BZ:119:GLU:O	58:BZ:121:HIS:N	2.20	0.73
49:DQ:108:GLY:HA3	58:DZ:116:VAL:HG11	1.69	0.73
44:BK:57:ILE:HA	44:BK:66:THR:O	1.89	0.73
10:CJ:54:PHE:CG	10:CJ:55:LYS:HE3	2.23	0.73
10:AJ:50:ILE:HD11	14:AN:41:ARG:NH1	2.04	0.73
40:BF:65:TRP:HZ3	40:BF:75:HIS:HD2	1.34	0.73
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.69	0.73
10:CJ:61:GLU:HG3	14:CN:58:LYS:NZ	2.03	0.73
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.23	0.73
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.53	0.73
42:DH:18:GLU:HB2	42:DH:25:LYS:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:8:ASN:HD22	32:B7:9:ARG:N	1.86	0.73
47:DO:105:GLU:O	47:DO:109:LYS:HG2	1.87	0.73
22:AW:25:U:H2'	22:AW:26:C:C6	2.23	0.73
52:DT:16:ARG:HD2	52:DT:18:ASP:OD1	1.88	0.73
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.87	0.73
24:AY:121:VAL:HG23	24:AY:122:TRP:H	1.54	0.73
57:DY:96:ILE:HD12	57:DY:99:CYS:SG	2.29	0.73
31:D6:27:LYS:HB3	31:D6:32:ASN:ND2	2.03	0.73
31:D6:11:LEU:HD23	31:D6:51:GLU:HG3	1.70	0.73
27:D2:38:GLN:HA	27:D2:41:ILE:HG23	1.69	0.73
26:D1:76:ARG:HH22	26:D1:95:LEU:CD1	2.00	0.73
44:BK:57:ILE:HD12	44:BK:57:ILE:H	1.53	0.73
25:B0:60:PHE:HE2	35:BA:2365:G:H4'	1.52	0.73
35:DA:2796:U:H3'	35:DA:2799:C:C5'	2.18	0.73
58:BZ:115:GLY:H	58:BZ:177:PRO:CG	2.01	0.73
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	1.69	0.73
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.71	0.73
35:DA:533:G:H5''	53:DU:24:TYR:CE2	2.23	0.73
47:BO:105:GLU:O	47:BO:109:LYS:HG2	1.88	0.73
35:BA:1171:G:H2'	35:BA:1173:G:H4'	1.70	0.73
52:BT:16:ARG:HD2	52:BT:18:ASP:OD1	1.88	0.73
42:BH:96:ALA:HB1	42:BH:103:LEU:HD11	1.70	0.73
25:D0:25:ARG:HD2	25:D0:29:GLN:NE2	2.04	0.73
36:BB:60:C:H2'	36:BB:61:G:H8	1.52	0.73
35:DA:991:C:H5'	35:DA:991:C:H6	1.53	0.73
28:B3:56:VAL:HG12	28:B3:57:GLU:H	1.51	0.73
24:AY:157:LEU:H	24:AY:157:LEU:CD2	1.93	0.73
35:BA:83:G:HO2'	35:BA:84:A:H8	1.34	0.73
33:D8:56:GLU:O	33:D8:59:LYS:HE3	1.88	0.73
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.70	0.73
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.70	0.73
26:B1:81:LYS:C	26:B1:82:LEU:HD12	2.07	0.73
35:BA:545:C:C3'	35:BA:547:A:H5''	2.19	0.73
58:DZ:128:VAL:HG21	58:DZ:132:ASN:HB2	1.69	0.73
44:DK:57:ILE:HA	44:DK:66:THR:O	1.88	0.73
25:D0:14:ARG:HB2	25:D0:14:ARG:HH11	1.54	0.73
39:BE:81:ILE:O	39:BE:81:ILE:HG22	1.88	0.73
35:DA:2461:C:O2	35:DA:2461:C:H2'	1.88	0.73
18:CR:74:ARG:HB3	18:CR:81:PHE:CE2	2.24	0.73
24:AY:514:VAL:HG21	24:AY:593:ALA:CB	2.18	0.73
1:CA:1170:A:H2'	1:CA:1171:G:O4'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:57:LYS:HG2	12:AL:67:THR:HG22	1.71	0.73
35:BA:2122:U:H2'	35:BA:2123:G:C8	2.23	0.73
18:AR:74:ARG:HB3	18:AR:81:PHE:CE2	2.23	0.73
36:DB:13:A:O2'	36:DB:14:U:H3'	1.88	0.73
3:CC:3:ASN:O	3:CC:4:LYS:HB2	1.89	0.73
24:AY:530:VAL:HG13	24:AY:531:GLY:H	1.53	0.73
43:DJ:27:UNK:HA	43:DJ:112:UNK:O	1.87	0.73
55:BW:68:ARG:O	55:BW:109:GLU:HA	1.89	0.73
35:BA:272(H):C:H2'	35:BA:272(I):U:H5''	1.70	0.73
35:DA:272(H):C:H2'	35:DA:272(I):U:H5''	1.71	0.73
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.17	0.73
37:DC:128:LEU:O	37:DC:128:LEU:HG	1.87	0.73
33:B8:4:MET:O	33:B8:62:LEU:HD12	1.89	0.73
35:DA:2807:G:H1	35:DA:2893:G:H1	1.34	0.73
58:BZ:23:LYS:HD3	58:BZ:38:TYR:CE1	2.23	0.73
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.19	0.73
1:AA:630:G:H2'	1:AA:631:G:C5'	2.19	0.73
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.03	0.73
34:B9:32:HIS:O	34:B9:34:GLN:HG3	1.89	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.19	0.73
35:BA:2132:U:C4	37:BC:6:LYS:HD2	2.24	0.73
35:BA:2178:C:H4'	37:BC:47:LYS:HD3	1.70	0.73
35:DA:654(G):C:H2'	35:DA:654(H):G:H8	1.51	0.73
1:CA:598:U:H2'	1:CA:599:C:C6	2.24	0.73
54:BV:77:ALA:O	54:BV:79:VAL:HG23	1.89	0.73
24:CY:678:GLU:HG2	24:CY:679:VAL:N	2.03	0.73
35:DA:2579:C:C4'	39:DE:134:ILE:HG12	2.17	0.73
24:AY:227:ILE:HD11	24:AY:241:GLU:O	1.88	0.73
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.87	0.73
35:BA:631:A:OP1	48:BP:64:LYS:HE2	1.88	0.73
38:BD:34:VAL:HG23	38:BD:35:LYS:N	2.04	0.73
35:BA:1080:C:H4'	44:BK:125:ARG:HB3	1.70	0.73
1:CA:1004:A:N6	1:CA:1034:G:H2'	2.03	0.73
5:AE:76:ILE:HG13	5:AE:142:LEU:HD13	1.70	0.73
25:D0:27:GLU:HA	25:D0:67:VAL:O	1.88	0.73
39:BE:34:VAL:O	39:BE:35:GLN:HB2	1.88	0.73
54:BV:28:GLU:HB2	54:BV:31:ALA:CB	2.19	0.73
1:CA:953:G:H5'	1:CA:965:A:H61	1.53	0.73
58:BZ:142:SER:H	58:BZ:144:LEU:HD23	1.54	0.73
35:DA:848:G:N3	35:DA:933:A:H1'	2.04	0.73
12:CL:80:HIS:O	12:CL:81:SER:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:628:ARG:HH12	24:AY:680:PRO:HG2	1.53	0.73
35:BA:364:C:H2'	35:BA:365:C:H5''	1.68	0.73
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.89	0.73
49:BQ:62:GLY:HA2	58:BZ:116:VAL:HG21	1.70	0.73
22:AW:52:C:H2'	22:AW:53:G:O4'	1.89	0.73
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.51	0.73
35:DA:1850:G:H5'	35:DA:1851:U:OP2	1.89	0.73
24:AY:227:ILE:HG23	24:AY:237:PRO:CG	2.19	0.72
24:AY:25:LYS:HE3	62:AY:703:GDP:O2B	1.89	0.72
33:D8:48:PHE:O	33:D8:49:VAL:HG22	1.88	0.72
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.23	0.72
35:BA:662:G:OP1	48:BP:18:ARG:HD2	1.89	0.72
55:DW:10:VAL:HG23	55:DW:101:SER:O	1.89	0.72
42:BH:41:MET:HG3	42:BH:43:VAL:HG13	1.71	0.72
52:DT:5:ALA:O	52:DT:7:ILE:N	2.22	0.72
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.71	0.72
50:BR:9:LYS:O	50:BR:10:LEU:HD23	1.88	0.72
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.70	0.72
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.54	0.72
2:CB:95:GLN:C	2:CB:96:ARG:HD2	2.10	0.72
1:CA:630:G:H2'	1:CA:631:G:C5'	2.18	0.72
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.04	0.72
1:AA:598:U:H2'	1:AA:599:C:C6	2.24	0.72
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.70	0.72
36:DB:60:C:H2'	36:DB:61:G:H8	1.53	0.72
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.71	0.72
35:DA:139:G:H1	35:DA:142(A):C:H42	1.34	0.72
36:DB:3:C:N4	36:DB:118:G:H1	1.86	0.72
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.69	0.72
35:BA:1540:U:H3'	35:BA:1541:G:H3'	1.70	0.72
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.71	0.72
1:AA:178:C:O2'	1:AA:179:A:H5'	1.88	0.72
24:AY:512:ILE:H	24:AY:512:ILE:HD13	1.53	0.72
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.69	0.72
1:AA:986:A:H1'	19:AS:54:GLY:O	1.89	0.72
1:AA:103:C:H3'	1:AA:104:G:H8	1.54	0.72
35:BA:1850:G:H5'	35:BA:1851:U:OP2	1.88	0.72
35:DA:654(S):G:H3'	35:DA:654(T):C:C5'	2.18	0.72
1:CA:353:A:H5'	1:CA:353:A:H8	1.54	0.72
1:CA:1404:C:H1'	1:CA:1499:A:C2	2.24	0.72
25:D0:77:ARG:HH22	35:DA:857:C:H5'	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.23	0.72
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.71	0.72
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.69	0.72
35:BA:139:G:H1	35:BA:142(A):C:H42	1.37	0.72
25:D0:27:GLU:N	25:D0:27:GLU:CD	2.41	0.72
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.71	0.72
28:B3:8:LEU:HD22	28:B3:31:LEU:CD2	2.18	0.72
39:DE:36:ARG:HH21	39:DE:88:GLY:CA	2.01	0.72
42:BH:41:MET:O	42:BH:42:ARG:HB3	1.89	0.72
35:BA:2258:C:O2'	35:BA:2426:A:H4'	1.89	0.72
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.24	0.72
42:DH:41:MET:O	42:DH:42:ARG:HB3	1.89	0.72
16:AP:74:LEU:CD2	16:AP:79:VAL:HG21	2.19	0.72
7:AG:80:VAL:HG23	7:AG:81:GLY:H	1.54	0.72
10:CJ:20:ALA:C	10:CJ:22:LYS:H	1.92	0.72
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.71	0.72
34:B9:36:GLN:OE1	35:BA:1124:C:H1'	1.90	0.72
35:BA:1001:A:H2'	35:BA:1002:G:O4'	1.90	0.72
35:BA:654(V):A:H3'	35:BA:655:A:H2'	1.69	0.72
35:DA:1171:G:H2'	35:DA:1173:G:H4'	1.70	0.72
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.53	0.72
53:DU:25:TRP:O	53:DU:28:ARG:HB2	1.89	0.72
1:AA:269:C:H2'	1:AA:270:A:C8	2.25	0.72
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.72	0.72
54:BV:39:LEU:CD1	54:BV:51:VAL:HA	2.20	0.72
33:B8:13:ARG:HD3	48:BP:61:ARG:O	1.87	0.72
33:D8:54:GLU:O	33:D8:58:ILE:HG12	1.88	0.72
35:DA:2315:G:O2'	41:DG:128:ARG:HD2	1.89	0.72
35:DA:637:A:H2'	48:DP:117:GLU:OE2	1.89	0.72
39:BE:61:ARG:HG2	39:BE:62:PRO:HD3	1.70	0.72
13:CM:78:ILE:HA	13:CM:81:LEU:HD23	1.70	0.72
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.04	0.72
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.54	0.72
35:BA:395:U:H2'	35:BA:396:G:N7	2.05	0.72
35:BA:279:C:C3'	35:BA:280:C:H5''	2.20	0.72
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.04	0.72
1:CA:50:A:N6	1:CA:361:G:H4'	2.04	0.72
40:BF:53:THR:HG22	40:BF:56:GLU:CG	2.14	0.72
24:AY:468:ARG:CB	24:AY:468:ARG:HH11	2.01	0.72
58:DZ:65:GLN:HB3	58:DZ:67:LEU:HD11	1.70	0.72
10:CJ:3:LYS:HZ2	10:CJ:76:ASN:HA	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1827:C:O2'	35:BA:1828:G:H5'	1.89	0.72
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.18	0.72
1:AA:1442:G:C6	1:AA:1442(B):A:H2	2.06	0.72
35:BA:674:G:H1'	40:BF:74:ARG:HD3	1.71	0.72
22:CV:39:C:H2'	22:CV:40:C:C6	2.23	0.72
22:AW:31:G:H2'	22:AW:32:G:C8	2.23	0.72
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.88	0.72
35:BA:2425:A:H4'	35:BA:2426:A:H5''	1.71	0.72
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.19	0.72
24:CY:191:ASP:HA	24:CY:267:LYS:HE3	1.72	0.72
46:BN:65:LYS:HA	46:BN:65:LYS:HZ3	1.54	0.72
1:CA:631:G:H2'	1:CA:632:A:C8	2.23	0.72
15:CO:11:VAL:O	15:CO:14:GLU:HB3	1.90	0.72
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.03	0.72
35:BA:1265:A:H5'	35:BA:1267:U:H1'	1.70	0.72
37:BC:43:GLU:HG3	37:BC:216:THR:HG23	1.71	0.72
35:DA:176:G:O2'	35:DA:177:G:H5'	1.89	0.72
25:D0:20:ARG:H	25:D0:20:ARG:HD2	1.54	0.72
35:DA:64:A:C4	56:DX:66:LEU:HD13	2.24	0.72
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.25	0.72
35:DA:586:A:H5'	40:DF:89:VAL:HG21	1.69	0.72
13:CM:6:GLY:C	13:CM:8:GLU:H	1.91	0.72
33:B8:54:GLU:O	33:B8:58:ILE:HG12	1.90	0.72
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.72	0.72
41:DG:116:ASP:O	41:DG:117:PHE:HB3	1.89	0.72
24:CY:32:ILE:O	24:CY:36:THR:HG23	1.89	0.72
41:BG:135:LEU:CD1	41:BG:155:MET:HG2	2.18	0.72
39:DE:49:LEU:HD22	39:DE:49:LEU:N	2.03	0.72
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.88	0.72
38:BD:183:ARG:HG2	38:BD:183:ARG:NH1	2.04	0.72
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.52	0.72
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.18	0.72
35:DA:2198:A:H4'	35:DA:2199:A:OP1	1.89	0.72
4:AD:158:ILE:O	4:AD:162:LEU:HB2	1.89	0.72
35:DA:751:A:H5'	55:DW:90:ARG:HA	1.70	0.72
44:BK:75:SER:O	44:BK:79:ARG:HG3	1.90	0.72
31:B6:40:CYS:HB2	31:B6:46:HIS:CE1	2.24	0.72
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.71	0.72
35:BA:739:G:H4'	35:BA:740:U:OP1	1.89	0.72
35:BA:2198:A:H4'	35:BA:2199:A:OP1	1.88	0.72
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:15:ARG:HA	55:DW:18:ARG:HD2	1.70	0.72
35:BA:1138:G:H2'	35:BA:1139:G:O4'	1.89	0.72
35:BA:2521:C:H42	35:BA:2544:G:H1	1.36	0.72
56:BX:41:ASN:O	56:BX:43:VAL:N	2.22	0.72
48:BP:7:ARG:O	48:BP:10:PRO:HD2	1.89	0.72
46:BN:3:THR:HG22	46:BN:4:TYR:H	1.53	0.72
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.88	0.72
26:B1:86:SER:CB	26:B1:89:GLU:HB2	2.18	0.72
35:DA:2306:C:H5''	35:DA:2307:G:O4'	1.89	0.72
6:AF:33:TYR:HB2	6:AF:75:LEU:HD13	1.70	0.72
12:CL:41:ARG:CG	12:CL:42:THR:H	2.02	0.72
25:B0:14:ARG:HH11	25:B0:14:ARG:HB2	1.55	0.72
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.19	0.72
35:DA:365:C:H5'	35:DA:365:C:H6	1.54	0.72
35:BA:1053:C:H2'	35:BA:1054:A:H5''	1.70	0.72
22:CV:2:G:H5''	25:D0:8:GLY:HA2	1.70	0.72
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CD1	2.24	0.72
50:BR:7:GLY:O	50:BR:8:ARG:HB2	1.89	0.72
9:CI:40:LEU:HD11	9:CI:70:LYS:HG2	1.71	0.72
41:BG:98:ARG:H	41:BG:98:ARG:HH11	1.37	0.72
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.71	0.72
35:DA:320:A:H2'	40:DF:136:THR:OG1	1.90	0.72
54:DV:15:GLU:CB	54:DV:16:PRO:HD2	2.20	0.72
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.71	0.72
35:BA:2461:C:O2	35:BA:2461:C:H2'	1.90	0.72
24:AY:92:ILE:HG12	24:AY:405:PRO:HG2	1.69	0.72
24:CY:505:GLY:HA3	24:CY:576:ASP:CG	2.10	0.72
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.24	0.72
58:DZ:9:TYR:HE2	58:DZ:61:LEU:HD22	1.54	0.72
16:CP:32:TYR:HD2	16:CP:32:TYR:O	1.72	0.72
29:D4:8:LYS:O	29:D4:9:LEU:HB2	1.87	0.72
35:DA:154(A):C:H3'	35:DA:155:U:C5'	2.20	0.72
44:DK:99:ILE:HD12	44:DK:103:GLN:HB3	1.71	0.72
54:DV:28:GLU:HB2	54:DV:31:ALA:CB	2.18	0.72
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.20	0.72
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.19	0.72
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.24	0.72
24:AY:343:ASN:HD22	24:AY:344:THR:N	1.88	0.72
49:DQ:79:LEU:HD23	49:DQ:80:GLU:H	1.53	0.72
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE2	2.07	0.72
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:4:LYS:HA	55:BW:106:ILE:HG22	1.72	0.72
45:BL:67:UNK:O	45:BL:69:UNK:N	2.23	0.72
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.89	0.72
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.89	0.72
53:DU:59:ARG:HH11	53:DU:59:ARG:HG2	1.54	0.72
35:DA:184:C:H2'	35:DA:185:U:C6	2.25	0.72
38:BD:35:LYS:NZ	38:BD:36:PRO:HD3	2.01	0.72
51:BS:96:GLY:O	51:BS:98:VAL:N	2.23	0.72
31:D6:47:THR:HG23	31:D6:48:VAL:H	1.55	0.72
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.17	0.72
46:BN:23:LEU:HB3	46:BN:60:ILE:HG21	1.70	0.72
39:BE:11:MET:HB2	39:BE:23:VAL:O	1.89	0.72
2:CB:22:LYS:H	2:CB:40:HIS:CE1	2.07	0.72
19:CS:9:VAL:HG12	19:CS:9:VAL:O	1.90	0.72
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.71	0.72
12:AL:34:ARG:O	12:AL:61:THR:HG23	1.90	0.72
35:BA:297:C:H2'	35:BA:298:G:O4'	1.89	0.72
35:BA:839:U:H2'	35:BA:840:C:C6	2.25	0.72
1:AA:269:C:H2'	1:AA:270:A:H8	1.55	0.72
1:AA:1126:U:O4'	1:AA:1281:U:H1'	1.90	0.72
35:DA:2636:U:H4'	39:DE:80:GLU:OE1	1.90	0.72
7:CG:80:VAL:HG23	7:CG:81:GLY:H	1.55	0.72
1:CA:294:U:H2'	1:CA:295:C:H6	1.55	0.72
18:AR:46:GLU:OE2	18:AR:46:GLU:HA	1.89	0.72
55:BW:82:LEU:HD12	55:BW:82:LEU:N	2.05	0.72
1:AA:1423:G:C5'	47:BO:49:ARG:HH22	2.02	0.72
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.70	0.72
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.25	0.72
35:BA:1787:A:H5"	35:BA:1788:C:OP2	1.90	0.72
4:AD:13:ARG:HA	4:AD:33:MET:HE1	1.73	0.71
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.04	0.71
46:DN:3:THR:HG22	46:DN:4:TYR:H	1.55	0.71
25:B0:27:GLU:HA	25:B0:67:VAL:O	1.89	0.71
44:DK:99:ILE:HG23	44:DK:103:GLN:CB	2.20	0.71
36:DB:7:G:C2'	36:DB:8:U:H5"	2.19	0.71
41:DG:98:ARG:HG2	41:DG:98:ARG:NH1	2.04	0.71
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.22	0.71
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.72	0.71
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.70	0.71
9:AI:79:LEU:HD11	9:AI:83:ARG:HD2	1.72	0.71
35:DA:2020:A:O2'	35:DA:2021:C:H5"	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:745:G:H5'	35:BA:746:A:OP2	1.89	0.71
28:D3:56:VAL:HG12	28:D3:57:GLU:N	2.05	0.71
56:DX:41:ASN:O	56:DX:43:VAL:N	2.22	0.71
1:CA:1100:C:H2'	1:CA:1101:A:H5''	1.72	0.71
28:B3:40:THR:OG1	28:B3:43:ILE:HG12	1.89	0.71
35:DA:1203:G:H3'	35:DA:1204:A:H5''	1.72	0.71
16:AP:32:TYR:O	16:AP:32:TYR:HD2	1.72	0.71
31:B6:11:LEU:HG	31:B6:26:ASN:HD21	1.55	0.71
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.19	0.71
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.20	0.71
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.91	0.71
48:BP:40:SER:C	48:BP:41:ARG:HD2	2.11	0.71
18:CR:58:LEU:HB3	18:CR:62:GLU:HB3	1.71	0.71
35:DA:279:C:C3'	35:DA:280:C:H5''	2.20	0.71
55:DW:4:LYS:HA	55:DW:106:ILE:HG22	1.72	0.71
31:D6:40:CYS:HB2	31:D6:46:HIS:CE1	2.25	0.71
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.90	0.71
24:AY:613:PRO:O	24:AY:615:GLU:N	2.23	0.71
42:DH:153:LYS:HG3	42:DH:154:PRO:HD2	1.70	0.71
24:CY:605:ILE:HG23	24:CY:646:PHE:HB3	1.71	0.71
51:DS:12:PHE:O	51:DS:14:VAL:HG23	1.90	0.71
19:CS:51:VAL:O	19:CS:58:VAL:HG22	1.89	0.71
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.71	0.71
31:D6:15:GLU:OE2	31:D6:44:ARG:NH1	2.23	0.71
49:DQ:62:GLY:HA2	58:DZ:116:VAL:HG21	1.72	0.71
35:BA:1819:A:H4'	35:BA:1820:U:C5'	2.20	0.71
35:BA:2439:A:N3	35:BA:2439:A:H2'	2.05	0.71
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.20	0.71
41:DG:173:LEU:O	41:DG:178:PHE:HB2	1.90	0.71
1:AA:108:G:H5'	1:AA:109:A:H5''	1.72	0.71
38:BD:158:ALA:O	38:BD:196:VAL:HG11	1.90	0.71
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.19	0.71
10:CJ:61:GLU:OE1	14:CN:49:HIS:HE1	1.74	0.71
37:BC:101:ILE:HG13	37:BC:128:LEU:HD11	1.71	0.71
35:DA:803:U:C2'	35:DA:804:A:H5'	2.20	0.71
24:CY:290:LYS:HB3	24:CY:298:VAL:HG23	1.72	0.71
35:BA:2195:C:O2'	35:BA:2196:C:H5'	1.90	0.71
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.25	0.71
12:AL:7:ILE:O	12:AL:11:VAL:HG23	1.90	0.71
1:CA:161:A:H2'	1:CA:162:A:C8	2.24	0.71
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.71
1:AA:998:G:H2'	1:AA:999:C:C2	2.25	0.71
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.11	0.71
33:D8:2:PRO:HA	35:DA:591:C:O2	1.89	0.71
42:BH:169:VAL:HG13	42:BH:170:ARG:N	2.04	0.71
40:BF:157:VAL:HG21	40:BF:194:MET:HG2	1.72	0.71
38:DD:35:LYS:C	38:DD:35:LYS:HD2	2.11	0.71
48:BP:62:LEU:HD23	48:BP:62:LEU:N	2.06	0.71
48:BP:62:LEU:N	48:BP:62:LEU:CD2	2.54	0.71
35:BA:320:A:H2'	40:BF:136:THR:OG1	1.90	0.71
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.90	0.71
48:BP:27:HIS:CD2	48:BP:28:GLY:N	2.58	0.71
35:DA:582:G:H2'	35:DA:583:G:C8	2.26	0.71
35:DA:624:C:H41	48:DP:107:LYS:NZ	1.88	0.71
35:BA:2306:C:H5''	35:BA:2307:G:O4'	1.91	0.71
46:DN:22:THR:O	46:DN:25:ARG:HB2	1.91	0.71
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.02	0.71
35:BA:1061:U:H4'	35:BA:1070:A:H1'	1.72	0.71
6:CF:33:TYR:HB2	6:CF:75:LEU:HD13	1.72	0.71
58:BZ:179:ASP:HB3	58:BZ:182:LYS:HD2	1.71	0.71
12:AL:34:ARG:HG3	12:AL:105:TYR:HE1	1.56	0.71
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.72	0.71
1:CA:461:A:O2'	1:CA:470:C:H5'	1.91	0.71
35:BA:848:G:N3	35:BA:933:A:H1'	2.05	0.71
4:CD:158:ILE:O	4:CD:162:LEU:HB2	1.89	0.71
22:CV:3:C:H42	22:CV:70:G:H1	1.35	0.71
24:AY:180:VAL:HG23	24:AY:181:LEU:H	1.54	0.71
35:BA:84:A:H5''	57:BY:9:LYS:HZ2	1.56	0.71
30:D5:4:HIS:CB	30:D5:5:PRO:HD3	2.19	0.71
35:DA:2055:C:H4'	35:DA:2056:G:H5''	1.72	0.71
1:CA:1298:C:H2'	1:CA:1298:C:O2	1.91	0.71
31:B6:15:GLU:OE2	31:B6:44:ARG:NH2	2.23	0.71
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.04	0.71
47:DO:17:ARG:NE	47:DO:47:ILE:HD11	2.04	0.71
44:DK:109:LYS:HA	44:DK:112:MET:CE	2.20	0.71
39:DE:61:ARG:HG2	39:DE:62:PRO:HD3	1.72	0.71
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	1.90	0.71
24:CY:608:VAL:O	24:CY:644:ARG:HA	1.91	0.71
39:DE:34:VAL:O	39:DE:35:GLN:HB2	1.89	0.71
30:B5:55:ARG:HH22	50:BR:33:ARG:HG2	1.55	0.71
1:AA:736:C:H2'	1:AA:737:A:C8	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:123:ALA:HB3	38:DD:131:LEU:HG	1.70	0.71
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.55	0.71
35:BA:2466:C:O2'	35:BA:2467:C:H5'	1.91	0.71
29:B4:13:ARG:NH1	29:B4:13:ARG:HB3	2.06	0.71
35:BA:756:C:O2'	35:BA:757:U:H5'	1.89	0.71
15:CO:5:LYS:O	15:CO:9:GLN:HG2	1.90	0.71
32:B7:23:ARG:C	32:B7:28:ARG:HH12	1.94	0.71
35:BA:500:G:N2	35:BA:502:A:H3'	2.06	0.71
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.56	0.71
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.26	0.71
18:CR:46:GLU:HA	18:CR:46:GLU:OE2	1.89	0.71
35:DA:654(V):A:H3'	35:DA:655:A:H2'	1.69	0.71
35:BA:955:C:OP2	49:BQ:14:ARG:HD2	1.91	0.71
1:AA:353:A:H5'	1:AA:353:A:H8	1.53	0.71
24:CY:168:ILE:HD12	24:CY:176:GLY:HA3	1.72	0.71
41:BG:56:ALA:HB1	41:BG:153:ARG:CZ	2.20	0.71
51:BS:12:PHE:O	51:BS:14:VAL:HG23	1.90	0.71
41:DG:62:LEU:CD1	41:DG:62:LEU:H	2.00	0.71
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.21	0.71
53:BU:20:LEU:CD2	53:BU:20:LEU:H	2.03	0.71
24:AY:459:LEU:HD12	24:AY:459:LEU:H	1.55	0.71
39:BE:38:THR:HG22	39:BE:40:GLU:N	2.03	0.71
35:DA:1190:G:H5'	48:DP:35:HIS:H	1.56	0.71
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.05	0.71
26:D1:94:LEU:O	26:D1:96:LYS:N	2.23	0.71
38:DD:27:THR:HG23	38:DD:83:GLU:HG2	1.72	0.71
19:CS:9:VAL:O	19:CS:11:VAL:N	2.22	0.71
49:DQ:35:VAL:HG23	49:DQ:101:ARG:O	1.91	0.71
29:B4:30:GLU:O	29:B4:31:ILE:HD12	1.90	0.71
1:AA:461:A:O2'	1:AA:470:C:H5'	1.90	0.71
12:CL:7:ILE:O	12:CL:11:VAL:HG23	1.90	0.71
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.54	0.71
4:AD:200:GLU:H	4:AD:200:GLU:CD	1.94	0.71
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.54	0.71
47:BO:1:MET:HG3	47:BO:67:LYS:HG2	1.73	0.71
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.54	0.71
24:CY:84:THR:CA	61:CY:702:FUA:H322	2.20	0.71
24:AY:180:VAL:CG2	24:AY:216:LEU:HD12	2.20	0.71
16:AP:21:VAL:O	16:AP:33:ILE:HB	1.90	0.71
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.26	0.71
31:B6:5:VAL:CG2	35:BA:2283:C:H5'	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:47:THR:HG23	31:B6:48:VAL:H	1.56	0.71
35:DA:28:A:N6	35:DA:512:G:H1'	2.06	0.71
44:BK:99:ILE:HD12	44:BK:103:GLN:HB3	1.71	0.71
35:BA:614(A):U:H4'	35:BA:614(B):G:C5'	2.20	0.71
10:AJ:61:GLU:OE1	14:AN:49:HIS:HE1	1.73	0.71
51:DS:98:VAL:C	51:DS:100:ALA:H	1.93	0.71
19:AS:9:VAL:HG12	19:AS:9:VAL:O	1.88	0.71
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.70	0.71
35:DA:2171:A:H1'	35:DA:2172:U:C6	2.26	0.71
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	1.72	0.71
27:D2:22:GLU:O	27:D2:26:ARG:HG3	1.91	0.71
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.91	0.71
57:DY:47:LYS:HG3	57:DY:60:PHE:HE2	1.54	0.71
57:BY:47:LYS:HG3	57:BY:60:PHE:HE2	1.54	0.71
37:DC:43:GLU:HG3	37:DC:216:THR:HG23	1.73	0.71
24:AY:620:VAL:O	24:AY:624:LEU:HD13	1.89	0.71
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.26	0.71
35:DA:84:A:H5''	57:DY:9:LYS:HZ2	1.56	0.71
41:DG:71:THR:HG22	41:DG:89:GLY:C	2.10	0.71
48:DP:40:SER:C	48:DP:41:ARG:HD2	2.10	0.71
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.05	0.71
44:DK:115:LEU:HD13	44:DK:126:MET:SD	2.30	0.71
51:DS:89:ARG:HG3	51:DS:92:TYR:HA	1.73	0.71
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.20	0.71
44:BK:93:ARG:CG	58:BZ:112:ARG:HE	2.04	0.71
51:DS:95:HIS:CG	51:DS:96:GLY:H	2.07	0.71
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.91	0.71
46:DN:65:LYS:HZ2	46:DN:65:LYS:HB3	1.55	0.71
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.56	0.71
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	1.90	0.71
35:DA:955:C:OP2	49:DQ:14:ARG:HD2	1.89	0.71
1:CA:998:G:H2'	1:CA:999:C:C2	2.25	0.71
53:BU:25:TRP:O	53:BU:28:ARG:HB2	1.90	0.71
15:AO:11:VAL:O	15:AO:14:GLU:HB3	1.90	0.71
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.72	0.71
35:BA:1582:C:H2'	35:BA:1583:A:H8	1.56	0.71
25:D0:30:VAL:HG12	25:D0:66:VAL:HG22	1.72	0.71
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.53	0.71
56:BX:12:VAL:HG12	56:BX:27:THR:HG23	1.71	0.71
53:DU:90:VAL:O	53:DU:92:ARG:N	2.24	0.71
53:BU:90:VAL:O	53:BU:92:ARG:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:6:ARG:O	31:D6:7:ILE:HB	1.91	0.71
33:D8:33:ASN:O	33:D8:34:TRP:HB3	1.91	0.71
50:DR:63:ARG:NH2	50:DR:77:ARG:HG2	2.06	0.71
35:BA:2055:C:H4'	35:BA:2056:G:H5''	1.71	0.71
30:D5:2:ALA:N	35:DA:2014:A:HO2'	1.89	0.71
28:D3:17:LYS:HZ2	28:D3:20:LYS:HE3	1.55	0.71
25:D0:7:LEU:CD1	49:DQ:85:LYS:HE2	2.21	0.71
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.25	0.71
41:DG:34:LEU:N	41:DG:34:LEU:HD12	2.04	0.71
27:B2:2:LYS:CB	35:BA:97:C:H5''	2.21	0.71
35:BA:288:C:H2'	35:BA:289:A:C8	2.25	0.71
1:AA:1299:A:N3	1:AA:1299:A:H2'	2.05	0.71
35:DA:803:U:O2'	35:DA:804:A:H5'	1.90	0.71
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.73	0.71
35:DA:500:G:N2	35:DA:502:A:H3'	2.06	0.71
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.71	0.71
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.25	0.71
36:BB:82:G:O2'	36:BB:83:G:H5'	1.91	0.71
1:CA:1486:G:H2'	1:CA:1487:G:O4'	1.90	0.71
33:B8:13:ARG:HH12	48:BP:59:LEU:HG	1.56	0.71
41:DG:109:VAL:HG11	41:DG:142:PRO:HD3	1.72	0.71
49:DQ:51:ARG:O	49:DQ:54:MET:HB3	1.89	0.71
39:DE:38:THR:HG22	39:DE:40:GLU:N	2.03	0.71
46:BN:22:THR:HB	46:BN:25:ARG:HB2	1.73	0.71
13:AM:90:LEU:O	13:AM:93:ARG:N	2.24	0.71
27:D2:32:LEU:HD11	27:D2:54:LYS:HG2	1.73	0.71
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.71	0.71
26:D1:61:ARG:HB3	26:D1:61:ARG:HH11	1.56	0.71
35:BA:954:G:H4'	49:BQ:13:GLN:NE2	2.05	0.71
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.71	0.71
38:BD:77:ALA:HB2	38:BD:97:TYR:CD2	2.25	0.71
35:DA:2521:C:H42	35:DA:2544:G:H1	1.37	0.71
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.90	0.71
40:BF:187:VAL:HG13	48:BP:5:ASP:O	1.91	0.70
41:DG:60:LEU:HD22	41:DG:63:ILE:HD11	1.73	0.70
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.90	0.70
51:BS:98:VAL:HG12	51:BS:100:ALA:H	1.55	0.70
35:BA:28:A:N6	35:BA:512:G:H1'	2.06	0.70
48:DP:27:HIS:CD2	48:DP:28:GLY:N	2.59	0.70
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.91	0.70
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:50:ILE:HD11	14:CN:41:ARG:NH1	2.05	0.70
27:D2:61:LEU:HD12	35:DA:72:U:C6	2.26	0.70
24:AY:154:GLN:HA	24:AY:158:GLY:HA2	1.72	0.70
10:AJ:61:GLU:HG3	14:AN:58:LYS:NZ	2.06	0.70
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.26	0.70
15:AO:5:LYS:O	15:AO:9:GLN:HG2	1.91	0.70
44:DK:75:SER:O	44:DK:79:ARG:HG3	1.90	0.70
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.91	0.70
35:BA:695:G:OP1	35:BA:1380:G:H4'	1.89	0.70
55:BW:15:ARG:HA	55:BW:18:ARG:HD2	1.71	0.70
35:BA:733:G:H8	35:BA:733:G:O5'	1.74	0.70
35:DA:914:C:H2'	35:DA:915:C:H5'	1.71	0.70
35:DA:1790:C:H5''	35:DA:1791:A:OP1	1.91	0.70
24:AY:431:LEU:HD22	24:AY:466:LEU:HD13	1.72	0.70
35:BA:2133:G:C2'	35:BA:2157:G:H22	2.02	0.70
35:DA:85:G:OP1	57:DY:30:VAL:HB	1.92	0.70
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.73	0.70
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.27	0.70
35:DA:1080:C:H4'	44:DK:125:ARG:HB3	1.72	0.70
35:BA:582:G:H2'	35:BA:583:G:C8	2.26	0.70
48:DP:34:GLY:O	48:DP:35:HIS:HB2	1.90	0.70
35:DA:1819:A:H4'	35:DA:1820:U:C5'	2.21	0.70
35:DA:1323:U:H3	35:DA:1331:A:H61	1.39	0.70
35:BA:970:C:H2'	35:BA:971:C:C6	2.25	0.70
41:DG:76:SER:HB2	41:DG:83:ARG:CB	2.20	0.70
24:CY:568:TYR:CE2	24:CY:569:ASP:HB2	2.27	0.70
35:DA:1528(A):A:H62	35:DA:1541:G:N2	1.88	0.70
58:DZ:143:GLY:C	58:DZ:144:LEU:HD22	2.12	0.70
36:BB:15:A:H3'	36:BB:16:G:H5'	1.73	0.70
1:CA:630:G:H2'	1:CA:631:G:H5'	1.73	0.70
35:DA:958:U:OP2	49:DQ:14:ARG:NH1	2.25	0.70
35:DA:1138:G:H2'	35:DA:1139:G:O4'	1.90	0.70
35:BA:158:U:H2'	35:BA:171:G:O4'	1.91	0.70
35:DA:799:G:H3'	35:DA:800:A:H5''	1.73	0.70
48:BP:79:ARG:O	48:BP:111:ARG:HB2	1.91	0.70
1:CA:1126:U:O4'	1:CA:1281:U:H1'	1.89	0.70
35:DA:1367:A:H2'	35:DA:1368:G:H5'	1.72	0.70
22:AV:71:C:H2'	22:AV:71:C:O2	1.90	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.89	0.70
58:BZ:29:TYR:HB3	58:BZ:34:ASN:HB2	1.73	0.70
42:BH:175:LYS:O	42:BH:176:ALA:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:48:THR:HG23	10:AJ:62:HIS:ND1	2.06	0.70
10:CJ:82:ILE:O	10:CJ:86:MET:HB2	1.92	0.70
48:DP:16:ARG:NH1	48:DP:16:ARG:HB2	2.05	0.70
31:D6:16:CYS:SG	31:D6:48:VAL:HG21	2.31	0.70
46:DN:58:ASP:O	46:DN:60:ILE:N	2.24	0.70
58:DZ:18:LEU:N	58:DZ:18:LEU:HD12	2.06	0.70
58:DZ:18:LEU:CD1	58:DZ:18:LEU:H	2.03	0.70
35:DA:1061:U:H4'	35:DA:1070:A:H1'	1.72	0.70
26:B1:4:VAL:HG23	26:B1:10:LYS:O	1.92	0.70
53:DU:107:ALA:HA	53:DU:110:VAL:CG2	2.22	0.70
1:CA:390:C:H2'	1:CA:391:G:C8	2.26	0.70
24:CY:168:ILE:HD11	24:CY:178:ILE:CD1	2.22	0.70
51:DS:83:LYS:HG2	51:DS:105:ALA:HB3	1.73	0.70
35:DA:1775:U:H2'	35:DA:1776:G:H5'	1.74	0.70
1:CA:269:C:H2'	1:CA:270:A:H8	1.57	0.70
47:DO:1:MET:HG3	47:DO:67:LYS:HG2	1.74	0.70
35:DA:158:U:H2'	35:DA:171:G:O4'	1.91	0.70
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.73	0.70
10:AJ:20:ALA:C	10:AJ:22:LYS:H	1.91	0.70
35:BA:2579:C:C4'	39:BE:134:ILE:HG12	2.19	0.70
24:CY:409:ILE:HD11	24:CY:656:ALA:HB3	1.72	0.70
22:AW:14:A:C2'	22:AW:15:G:H5''	2.16	0.70
35:BA:1190:G:H5'	48:BP:35:HIS:H	1.55	0.70
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.90	0.70
35:DA:2308:G:O6	35:DA:2310:A:H2'	1.90	0.70
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.73	0.70
41:DG:131:TYR:HB3	41:DG:159:VAL:HG13	1.73	0.70
13:CM:90:LEU:O	13:CM:93:ARG:N	2.24	0.70
35:DA:2258:C:O2'	35:DA:2426:A:H4'	1.90	0.70
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.54	0.70
50:DR:10:LEU:HB3	50:DR:17:ARG:CD	2.21	0.70
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.91	0.70
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	2.06	0.70
58:DZ:142:SER:H	58:DZ:144:LEU:HD23	1.54	0.70
58:DZ:23:LYS:HD3	58:DZ:38:TYR:HE1	1.56	0.70
35:DA:894:C:O2'	35:DA:895:U:H5'	1.91	0.70
35:DA:839:U:H2'	35:DA:840:C:C6	2.25	0.70
35:DA:654(S):G:H3'	35:DA:654(T):C:H5''	1.71	0.70
16:CP:49:LEU:HD22	16:CP:73:LEU:HD22	1.73	0.70
24:AY:401:SER:O	24:AY:403:GLU:HG3	1.91	0.70
55:DW:68:ARG:O	55:DW:109:GLU:HA	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1265:A:H5'	35:DA:1267:U:H1'	1.72	0.70
27:B2:25:VAL:C	27:B2:27:GLU:H	1.93	0.70
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.72	0.70
41:BG:68:PRO:HA	41:BG:92:VAL:CG1	2.16	0.70
22:AW:69:C:H2'	22:AW:70:C:C6	2.27	0.70
22:AW:7:G:H3'	22:AW:8:U:H5'	1.73	0.70
31:B6:35:GLU:CB	31:B6:51:GLU:HB2	2.21	0.70
44:BK:115:LEU:HD13	44:BK:126:MET:SD	2.31	0.70
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.06	0.70
44:BK:99:ILE:HG23	44:BK:103:GLN:CB	2.20	0.70
44:BK:109:LYS:HA	44:BK:112:MET:CE	2.22	0.70
42:BH:43:VAL:CG1	42:BH:52:VAL:HA	2.22	0.70
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.39	0.70
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.91	0.70
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	1.90	0.70
35:DA:954:G:H4'	49:DQ:13:GLN:NE2	2.06	0.70
1:AA:1170:A:H2'	1:AA:1171:G:O4'	1.91	0.70
38:DD:77:ALA:HB2	38:DD:97:TYR:CD2	2.27	0.70
49:BQ:87:LYS:HG2	49:BQ:88:GLY:H	1.56	0.70
1:AA:161:A:H2'	1:AA:162:A:C8	2.26	0.70
29:B4:9:LEU:CD2	41:BG:65:GLY:HA3	2.21	0.70
37:BC:84:ILE:O	37:BC:95:VAL:HG11	1.91	0.70
22:AV:20:U:C3'	22:AV:21:A:H5'	2.20	0.70
38:BD:65:ILE:HG22	38:BD:104:TYR:CB	2.18	0.70
48:BP:16:ARG:NE	48:BP:18:ARG:HB2	2.07	0.70
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	1.72	0.70
48:BP:101:VAL:HG12	48:BP:106:LEU:HB3	1.74	0.70
48:BP:85:LEU:CD1	48:BP:120:ALA:HB2	2.21	0.70
29:D4:1:MET:HG2	41:DG:98:ARG:NE	2.07	0.70
2:AB:153:ARG:C	2:AB:155:LEU:H	1.94	0.70
46:DN:22:THR:HB	46:DN:25:ARG:HB2	1.73	0.70
25:D0:51:VAL:HG22	25:D0:81:VAL:HG23	1.72	0.70
22:CW:74:A:C2'	22:CW:75:C:H5''	2.21	0.70
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.74	0.70
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.72	0.70
1:AA:630:G:H2'	1:AA:631:G:H5'	1.74	0.70
35:BA:894:C:O2'	35:BA:895:U:H5'	1.91	0.70
29:D4:13:ARG:HB3	29:D4:13:ARG:NH1	2.07	0.70
47:DO:3:GLN:HB2	47:DO:4:PRO:HD2	1.73	0.70
35:DA:88:G:OP1	35:DA:90:U:H5	1.74	0.70
51:BS:83:LYS:HG2	51:BS:105:ALA:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:60:A:H5''	1:CA:331:G:H22	1.56	0.70
25:B0:73:GLY:O	25:B0:75:LEU:N	2.24	0.70
22:AW:71:G:H2'	22:AW:71:G:N3	2.07	0.70
20:CT:73:HIS:H	20:CT:76:ALA:HB3	1.55	0.70
12:CL:34:ARG:HG3	12:CL:105:TYR:HE1	1.57	0.70
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.90	0.70
35:DA:120:U:O2	35:DA:120:U:H2'	1.89	0.70
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.91	0.70
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.91	0.70
42:DH:169:VAL:HG13	42:DH:170:ARG:N	2.05	0.70
54:DV:39:LEU:CD1	54:DV:51:VAL:HA	2.22	0.70
35:DA:2415:G:O3'	48:DP:66:GLY:HA3	1.89	0.70
24:CY:146:LEU:O	24:CY:149:VAL:HB	1.92	0.70
58:DZ:115:GLY:N	58:DZ:177:PRO:HG3	2.04	0.70
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	1.91	0.70
24:AY:14:ASN:HB2	24:AY:102:ASP:OD1	1.91	0.70
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.92	0.70
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.20	0.70
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.32	0.70
7:AG:120:ILE:HG22	7:AG:124:LEU:HD12	1.74	0.70
35:DA:144:C:H2'	35:DA:145:G:H8	1.55	0.70
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.57	0.70
12:CL:57:LYS:HG2	12:CL:67:THR:HG22	1.74	0.70
35:DA:742:G:O2'	35:DA:743:G:H5'	1.92	0.70
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.06	0.70
35:DA:671:C:O2'	35:DA:672:C:H5'	1.91	0.70
27:D2:58:ALA:HB1	35:DA:76:C:H4'	1.74	0.70
53:DU:55:ARG:HA	53:DU:58:ARG:CG	2.22	0.70
61:AY:702:FUA:H122	61:AY:702:FUA:H231	1.73	0.70
30:B5:2:ALA:N	35:BA:2014:A:HO2'	1.90	0.70
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.12	0.70
24:CY:492:ASP:OD1	24:CY:513:LYS:HA	1.92	0.70
51:DS:96:GLY:O	51:DS:98:VAL:HG23	1.91	0.70
1:AA:390:C:H2'	1:AA:391:G:C8	2.26	0.70
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.92	0.70
20:CT:49:ALA:HB1	20:CT:99:LEU:HG	1.72	0.70
12:CL:86:ARG:NH2	12:CL:99:HIS:CD2	2.59	0.70
35:DA:1380:G:O2'	35:DA:1381:G:H5'	1.92	0.70
1:CA:986:A:H1'	19:CS:54:GLY:O	1.92	0.70
35:BA:49:A:H5''	35:BA:51:G:O4'	1.92	0.70
11:AK:126:ARG:O	11:AK:128:ALA:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2171:A:H1'	35:BA:2172:U:C6	2.26	0.70
24:AY:614:GLU:HB3	24:AY:617:MET:HE3	1.74	0.70
1:CA:1490:C:H2'	1:CA:1491:G:H5'	1.73	0.70
26:D1:44:PRO:HG2	26:D1:46:LEU:CD2	2.19	0.70
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.74	0.70
51:BS:89:ARG:HG3	51:BS:92:TYR:HA	1.74	0.70
52:BT:38:ASN:ND2	52:BT:38:ASN:C	2.40	0.70
1:CA:975:A:H5'	1:CA:975:A:C8	2.27	0.70
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	1.92	0.70
1:CA:108:G:H5'	1:CA:109:A:H5''	1.74	0.70
49:BQ:51:ARG:O	49:BQ:54:MET:HB3	1.91	0.70
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.92	0.70
24:CY:487:ILE:HG22	24:CY:594:VAL:HG13	1.73	0.70
9:CI:79:LEU:HD11	9:CI:83:ARG:HD2	1.72	0.70
42:DH:41:MET:HG3	42:DH:43:VAL:HG13	1.72	0.70
35:DA:695:G:OP1	35:DA:1380:G:H4'	1.92	0.70
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.06	0.70
24:CY:339:SER:O	24:CY:351:ARG:HD2	1.91	0.70
35:BA:1775:U:H2'	35:BA:1776:G:H5'	1.73	0.70
55:BW:33:ARG:O	55:BW:37:ARG:HB2	1.92	0.70
35:DA:1846:G:C8	35:DA:1846:G:H5'	2.23	0.70
58:BZ:171:ILE:HG13	58:BZ:172:ALA:N	2.05	0.70
24:CY:7:TYR:OH	24:CY:9:LEU:HD12	1.92	0.70
51:BS:96:GLY:O	51:BS:98:VAL:HG23	1.92	0.70
31:D6:15:GLU:OE2	31:D6:44:ARG:NH2	2.24	0.70
35:BA:2262:U:C2'	35:BA:2263:C:C5'	2.70	0.70
54:DV:28:GLU:OE1	54:DV:31:ALA:HB2	1.92	0.70
22:AW:30:G:H2'	22:AW:31:G:C8	2.27	0.70
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.73	0.70
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.74	0.70
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.73	0.70
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.73	0.70
42:BH:89:ILE:HG23	42:BH:129:THR:O	1.91	0.70
42:DH:89:ILE:HG23	42:DH:129:THR:O	1.92	0.70
4:CD:200:GLU:H	4:CD:200:GLU:CD	1.93	0.70
35:BA:144:C:H2'	35:BA:145:G:H8	1.56	0.70
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.72	0.69
41:BG:68:PRO:HB3	41:BG:90:LEU:HD11	1.74	0.69
24:AY:252:ASP:HB2	24:AY:254:LYS:HG2	1.73	0.69
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.73	0.69
48:BP:34:GLY:O	48:BP:35:HIS:HB2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.57	0.69
1:CA:1299:A:N3	1:CA:1299:A:H2'	2.06	0.69
48:DP:16:ARG:NE	48:DP:18:ARG:HB2	2.06	0.69
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.20	0.69
52:DT:24:PRO:HD3	52:DT:52:ILE:HD11	1.74	0.69
29:D4:30:GLU:O	29:D4:31:ILE:HD12	1.92	0.69
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.74	0.69
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.12	0.69
35:BA:1323:U:H3	35:BA:1331:A:H61	1.40	0.69
58:BZ:84:GLU:O	58:BZ:85:HIS:HB2	1.91	0.69
55:BW:29:LEU:CD1	55:BW:51:LEU:HD11	2.21	0.69
36:DB:15:A:H3'	36:DB:16:G:H5'	1.72	0.69
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.91	0.69
36:BB:106:G:H5''	58:BZ:31:ARG:HB3	1.71	0.69
1:CA:269:C:H2'	1:CA:270:A:C8	2.27	0.69
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.73	0.69
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.57	0.69
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.26	0.69
1:AA:1100:C:H2'	1:AA:1101:A:H5''	1.72	0.69
8:CH:41:ARG:HH22	8:CH:123:GLU:CD	1.95	0.69
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.55	0.69
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.75	0.69
47:BO:76:ALA:HB3	52:BT:75:ILE:HB	1.73	0.69
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.32	0.69
1:CA:1490:C:C2'	1:CA:1491:G:H5'	2.22	0.69
53:BU:59:ARG:HH11	53:BU:59:ARG:HG2	1.57	0.69
24:CY:514:VAL:HG21	24:CY:593:ALA:HB1	1.73	0.69
35:BA:154(A):C:H3'	35:BA:155:U:C5'	2.20	0.69
25:D0:16:SER:HB2	35:DA:2262:U:H5	1.56	0.69
46:BN:22:THR:O	46:BN:25:ARG:HB2	1.91	0.69
3:AC:84:ILE:O	3:AC:88:ARG:HG3	1.92	0.69
35:BA:1599:C:H2'	35:BA:1600:C:H6	1.58	0.69
1:CA:736:C:H2'	1:CA:737:A:C8	2.27	0.69
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.92	0.69
35:DA:1948:G:H5'	35:DA:1948:G:C8	2.27	0.69
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.74	0.69
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.27	0.69
24:AY:613:PRO:C	24:AY:615:GLU:H	1.94	0.69
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.57	0.69
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.07	0.69
26:D1:30:VAL:HG23	26:D1:31:GLY:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:171:LEU:HD23	42:DH:172:LYS:O	1.90	0.69
10:CJ:71:LEU:HD12	10:CJ:72:VAL:H	1.57	0.69
24:AY:177:ILE:C	24:AY:178:ILE:HD12	2.11	0.69
38:DD:261:LYS:HZ2	38:DD:263:ARG:HH12	1.38	0.69
35:DA:2133:G:C2'	35:DA:2157:G:H22	2.02	0.69
1:AA:793:U:C3'	1:AA:794:A:H5''	2.20	0.69
41:DG:110:ALA:HB1	41:DG:140:ILE:HD13	1.75	0.69
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.23	0.69
30:B5:3:LYS:HD2	30:B5:5:PRO:HD2	1.72	0.69
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.12	0.69
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.12	0.69
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.92	0.69
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.21	0.69
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.58	0.69
36:DB:77:U:OP1	58:DZ:19:ARG:NH2	2.25	0.69
37:DC:74:ARG:H	37:DC:112:ASP:HB2	1.57	0.69
39:DE:81:ILE:HG22	39:DE:81:ILE:O	1.90	0.69
26:D1:56:GLN:HE22	26:D1:87:PRO:HB3	1.57	0.69
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.74	0.69
2:AB:83:MET:HG3	2:AB:234:PRO:HG3	1.73	0.69
1:CA:35:G:H2'	1:CA:36:C:C6	2.27	0.69
15:CO:80:ALA:HB1	15:CO:84:LYS:HE2	1.73	0.69
51:DS:17:ARG:O	51:DS:20:ARG:HG2	1.90	0.69
35:DA:566:U:O2'	35:DA:567:A:H5'	1.91	0.69
22:AV:5:G:N2	22:AV:69:C:C2	2.59	0.69
25:B0:30:VAL:HG12	25:B0:66:VAL:HG22	1.74	0.69
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	1.74	0.69
1:CA:66:G:H4'	1:CA:173:U:C5	2.27	0.69
35:BA:799:G:H3'	35:BA:800:A:H5''	1.74	0.69
11:CK:126:ARG:O	11:CK:128:ALA:N	2.26	0.69
38:BD:35:LYS:HD2	38:BD:36:PRO:CA	2.22	0.69
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.27	0.69
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.74	0.69
12:AL:18:VAL:HG23	12:AL:19:ARG:N	2.05	0.69
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	1.72	0.69
25:B0:7:LEU:HD22	49:BQ:81:VAL:HG23	1.74	0.69
49:DQ:3:MET:HB2	49:DQ:4:PRO:HD2	1.75	0.69
25:D0:7:LEU:HD22	49:DQ:81:VAL:HG23	1.75	0.69
50:DR:2:ARG:CD	50:DR:5:LYS:HE2	2.23	0.69
35:DA:2761:G:C3'	35:DA:2762:G:H5''	2.22	0.69
35:DA:1053:C:C2'	35:DA:1054:A:H5''	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:137:ASP:HB2	42:BH:140:LYS:HD2	1.74	0.69
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.57	0.69
28:D3:40:THR:OG1	28:D3:43:ILE:HG12	1.92	0.69
35:DA:1787:A:H5''	35:DA:1788:C:OP2	1.92	0.69
35:BA:528:A:H2	35:BA:2043:C:H4'	1.56	0.69
26:D1:58:ILE:HD11	26:D1:91:LYS:HB2	1.74	0.69
47:DO:76:ALA:HB3	52:DT:75:ILE:HB	1.73	0.69
1:AA:1473:A:O2'	1:AA:1474:G:H5'	1.92	0.69
37:BC:115:VAL:HG12	37:BC:145:THR:HG23	1.74	0.69
38:BD:153:ALA:O	38:BD:154:LYS:HG3	1.93	0.69
35:BA:825:C:O2'	35:BA:826:U:H5'	1.92	0.69
43:DJ:13:UNK:C	43:DJ:15:UNK:H	2.05	0.69
35:BA:962:G:O2'	35:BA:963:U:H5'	1.92	0.69
35:DA:1582:C:H2'	35:DA:1583:A:H8	1.56	0.69
41:BG:95:ARG:O	41:BG:96:ARG:O	2.10	0.69
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.75	0.69
24:CY:84:THR:N	24:CY:85:PRO:HD3	2.05	0.69
35:BA:965:C:H5'	35:BA:2273:A:C1'	2.21	0.69
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.02	0.69
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	2.08	0.69
35:BA:2262:U:C2'	35:BA:2263:C:H5'	2.22	0.69
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.20	0.69
48:BP:84:ASN:HA	48:BP:115:LEU:O	1.92	0.69
19:AS:20:LEU:HA	19:AS:23:ASN:HB2	1.74	0.69
39:BE:78:LEU:O	39:BE:79:ARG:HD2	1.91	0.69
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.08	0.69
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.57	0.69
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.06	0.69
42:DH:137:ASP:HB2	42:DH:140:LYS:HD2	1.75	0.69
41:DG:75:LYS:O	41:DG:76:SER:HB3	1.92	0.69
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.27	0.69
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.56	0.69
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	1.93	0.69
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.28	0.69
1:AA:731:G:OP1	1:AA:766:A:H1'	1.93	0.69
32:D7:8:ASN:HD22	32:D7:9:ARG:N	1.89	0.69
35:BA:88:G:OP1	35:BA:90:U:H5	1.74	0.69
1:AA:35:G:H2'	1:AA:36:C:C6	2.28	0.69
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.73	0.69
24:CY:90:PHE:HZ	61:CY:702:FUA:H121	1.57	0.69
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:83:LEU:CD1	53:BU:83:LEU:H	2.06	0.69
30:D5:4:HIS:O	35:DA:2056:G:N2	2.25	0.69
51:BS:70:GLY:C	51:BS:101:LEU:HD23	2.13	0.69
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.73	0.69
2:CB:153:ARG:C	2:CB:155:LEU:H	1.95	0.69
2:AB:223:ILE:HA	2:AB:226:ARG:NE	2.08	0.69
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.74	0.69
25:D0:40:GLN:HE22	25:D0:43:THR:HA	1.57	0.69
24:CY:281:PRO:HB2	24:CY:286:ILE:HD11	1.74	0.69
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.72	0.69
37:BC:29:LEU:O	37:BC:32:GLU:HG2	1.93	0.69
35:DA:395:U:H2'	35:DA:396:G:N7	2.06	0.69
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.27	0.69
1:AA:50:A:N6	1:AA:361:G:H4'	2.08	0.69
35:BA:2801(A):A:H4'	35:BA:2802:G:C8	2.28	0.69
8:AH:41:ARG:HH22	8:AH:123:GLU:CD	1.94	0.69
35:BA:2236:C:H2'	35:BA:2237:G:O4'	1.93	0.69
35:BA:671:C:O2'	35:BA:672:C:H5'	1.92	0.69
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.57	0.69
46:DN:26:LEU:C	46:DN:26:LEU:HD12	2.12	0.69
55:BW:10:VAL:HG23	55:BW:101:SER:O	1.93	0.69
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.74	0.69
31:B6:6:ARG:O	31:B6:7:ILE:HB	1.92	0.69
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.56	0.69
48:DP:62:LEU:H	48:DP:62:LEU:CD2	2.06	0.69
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.00	0.69
41:BG:131:TYR:HE2	41:BG:133:LEU:HB3	1.57	0.69
35:BA:582:G:H2'	35:BA:583:G:H8	1.58	0.69
1:AA:1490:C:H6	1:AA:1490:C:C5'	2.06	0.69
44:BK:109:LYS:HA	44:BK:112:MET:HE2	1.74	0.69
24:AY:71:THR:HG22	24:AY:80:ASN:OD1	1.93	0.69
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.23	0.69
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	1.92	0.69
35:DA:614(A):U:H4'	35:DA:614(B):G:C5'	2.21	0.69
18:AR:58:LEU:HB3	18:AR:62:GLU:HB3	1.73	0.69
50:BR:10:LEU:HB3	50:BR:17:ARG:CD	2.22	0.69
40:DF:20:LEU:HD23	40:DF:21:ALA:N	2.08	0.69
52:DT:129:ARG:O	52:DT:131:ALA:N	2.21	0.69
24:AY:343:ASN:C	24:AY:343:ASN:HD22	1.96	0.69
58:BZ:30:ASN:ND2	58:BZ:31:ARG:HG3	2.08	0.69
55:DW:33:ARG:O	55:DW:37:ARG:HB2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:16:ARG:O	41:DG:20:ILE:HG13	1.93	0.69
35:BA:176:G:O2'	35:BA:177:G:H5'	1.93	0.69
24:CY:616:TYR:HE2	24:CY:664:GLN:HE21	1.40	0.69
25:B0:19:LYS:HD3	25:B0:41:ARG:HH22	1.56	0.69
7:CG:120:ILE:HG22	7:CG:124:LEU:HD12	1.72	0.69
1:CA:491:G:H2'	1:CA:492:G:H8	1.58	0.69
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.73	0.69
41:BG:32:PRO:HA	41:BG:162:THR:HB	1.75	0.69
35:BA:2012:G:C4'	55:BW:96:ILE:HD11	2.15	0.69
40:BF:154:VAL:HG11	40:BF:193:VAL:HG23	1.75	0.69
24:AY:272:LEU:O	24:AY:275:ALA:HB3	1.92	0.69
35:BA:2415:G:O3'	48:BP:66:GLY:HA3	1.91	0.69
19:AS:51:VAL:O	19:AS:58:VAL:HG22	1.93	0.69
58:DZ:10:ARG:NH2	58:DZ:26:GLY:N	2.40	0.69
35:DA:272(I):U:O2	35:DA:272(I):U:H3'	1.93	0.69
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.73	0.69
30:D5:45:VAL:HG22	30:D5:51:TYR:CE1	2.28	0.69
24:CY:210:ARG:HH11	24:CY:210:ARG:HG2	1.56	0.69
24:CY:157:LEU:CD2	24:CY:157:LEU:H	2.05	0.69
30:B5:45:VAL:HG22	30:B5:51:TYR:CE1	2.28	0.69
31:B6:45:LYS:HD3	35:BA:2371:G:O3'	1.93	0.69
35:DA:2524:G:C8	35:DA:2524:G:H5'	2.25	0.69
35:DA:582:G:H2'	35:DA:583:G:H8	1.56	0.69
46:DN:45:ASN:HD22	46:DN:45:ASN:N	1.86	0.69
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.92	0.69
18:CR:29:PHE:N	18:CR:29:PHE:CD2	2.56	0.69
1:AA:1226:C:H5'	13:AM:96:LEU:HD13	1.74	0.69
38:DD:106:ILE:HD11	38:DD:196:VAL:HG13	1.75	0.69
37:DC:84:ILE:O	37:DC:95:VAL:HG11	1.93	0.69
39:BE:179:GLU:HB3	39:BE:181:LEU:HD23	1.73	0.69
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.73	0.69
24:AY:416:LYS:HD3	24:AY:417:THR:H	1.56	0.69
24:AY:555:LEU:HD11	24:AY:599:PRO:HB2	1.75	0.69
24:AY:554:PRO:HG3	24:AY:594:VAL:HG12	1.74	0.69
52:DT:107:ASP:CG	52:DT:108:ARG:H	1.95	0.69
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.72	0.69
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.28	0.69
24:CY:228:MET:O	24:CY:231:TYR:HB3	1.93	0.69
37:DC:29:LEU:O	37:DC:32:GLU:HG2	1.93	0.69
42:DH:43:VAL:CG1	42:DH:52:VAL:HA	2.22	0.69
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:49:ALA:HB1	20:AT:99:LEU:HG	1.73	0.69
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.27	0.69
35:BA:365:C:H6	35:BA:365:C:H5'	1.58	0.69
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.27	0.69
29:B4:12:ALA:CB	29:B4:29:PRO:HA	2.23	0.69
35:BA:528:A:C2	35:BA:2043:C:H4'	2.27	0.69
37:DC:78:ILE:O	37:DC:120:VAL:HG21	1.93	0.69
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.92	0.69
20:CT:12:ALA:O	20:CT:15:ARG:HB2	1.93	0.69
22:AW:10:G:H2'	22:AW:11:A:H8	1.57	0.69
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.56	0.69
35:DA:1099:G:H2'	35:DA:1100:C:O4'	1.93	0.69
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.74	0.69
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.57	0.69
14:CN:27:CYS:SG	14:CN:29:ARG:HB2	2.31	0.69
22:AW:2:G:H1	22:AW:72:C:H42	1.40	0.69
55:DW:82:LEU:N	55:DW:82:LEU:HD12	2.07	0.69
35:DA:2236:C:H2'	35:DA:2237:G:O4'	1.93	0.69
1:CA:1310:G:O2'	1:CA:1311:G:H5'	1.93	0.69
36:BB:20:C:O2'	36:BB:21:G:H5''	1.92	0.69
24:AY:261:GLY:HA3	24:AY:267:LYS:O	1.93	0.69
55:DW:78:GLU:OE2	55:DW:99:ARG:HD2	1.93	0.69
27:D2:40:SER:C	27:D2:42:GLY:H	1.95	0.69
56:BX:12:VAL:HB	56:BX:17:ALA:CB	2.12	0.69
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.73	0.69
27:D2:33:MET:O	27:D2:37:PHE:HB2	1.92	0.69
35:DA:1010:A:H1'	35:DA:1153:C:H1'	1.75	0.69
49:BQ:3:MET:HB2	49:BQ:4:PRO:HD2	1.75	0.69
2:CB:222:ILE:HB	2:CB:226:ARG:HH21	1.57	0.69
1:CA:1226:C:H5'	13:CM:96:LEU:HD13	1.74	0.69
35:DA:1779:U:C5	35:DA:1784:A:N7	2.58	0.69
25:D0:19:LYS:HD3	25:D0:41:ARG:HH22	1.58	0.69
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	1.93	0.69
38:BD:123:ALA:HB3	38:BD:131:LEU:HG	1.75	0.69
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.04	0.69
38:BD:27:THR:HG23	38:BD:83:GLU:HG2	1.74	0.69
52:DT:129:ARG:O	52:DT:129:ARG:HG2	1.93	0.69
24:CY:103:GLY:O	24:CY:104:ALA:HB2	1.92	0.69
25:D0:73:GLY:O	25:D0:75:LEU:N	2.23	0.69
35:BA:2105:C:H42	35:BA:2184:G:H1	1.40	0.69
35:BA:184:C:H2'	35:BA:185:U:C6	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.56	0.69
1:CA:627:G:O2'	1:CA:628:G:H5'	1.91	0.69
11:CK:23:ALA:HB1	11:CK:88:GLY:HA3	1.73	0.69
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.92	0.69
36:DB:20:C:O2'	36:DB:21:G:H5''	1.92	0.69
24:AY:539:ILE:HA	24:AY:542:VAL:HG12	1.74	0.69
1:AA:627:G:O2'	1:AA:628:G:H5'	1.93	0.69
40:DF:187:VAL:HG13	48:DP:5:ASP:O	1.92	0.69
41:BG:138:GLN:OE1	41:BG:153:ARG:HG2	1.92	0.69
41:BG:67:LYS:HD3	41:BG:68:PRO:N	2.08	0.69
35:BA:1504:C:H2'	35:BA:1505:C:H5''	1.74	0.69
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.74	0.69
40:DF:195:ASP:OD1	40:DF:196:LEU:N	2.22	0.69
26:D1:76:ARG:NH2	26:D1:95:LEU:HB2	2.08	0.69
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.23	0.69
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.22	0.69
50:BR:2:ARG:CD	50:BR:5:LYS:HE2	2.23	0.69
35:DA:2262:U:C2'	35:DA:2263:C:C5'	2.71	0.69
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.74	0.69
19:CS:44:MET:N	19:CS:44:MET:SD	2.66	0.69
1:CA:1325:C:H2'	1:CA:1326:C:H6	1.56	0.69
3:CC:150:LYS:HB2	3:CC:169:ALA:HB1	1.75	0.69
19:AS:6:LYS:CE	19:AS:6:LYS:H	2.05	0.69
4:CD:160:GLN:O	4:CD:163:GLU:HB3	1.91	0.69
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.93	0.69
35:DA:419:C:H2'	35:DA:420:C:H6	1.56	0.69
26:D1:19:GLN:O	26:D1:35:THR:HG22	1.92	0.69
3:CC:148:GLY:HA3	3:CC:172:ARG:O	1.92	0.69
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.08	0.69
40:BF:43:LYS:HA	40:BF:98:SER:HB3	1.74	0.69
41:BG:111:LEU:HA	41:BG:114:ILE:CD1	2.22	0.68
24:AY:12:LEU:O	24:AY:283:PRO:HD3	1.92	0.68
31:B6:30:THR:O	31:B6:32:ASN:N	2.25	0.68
33:B8:56:GLU:O	33:B8:59:LYS:HE3	1.92	0.68
48:BP:59:LEU:HA	48:BP:61:ARG:CZ	2.22	0.68
40:DF:157:VAL:HG21	40:DF:194:MET:HG2	1.74	0.68
58:BZ:120:ILE:O	58:BZ:121:HIS:HB2	1.93	0.68
1:AA:975:A:H5'	1:AA:975:A:C8	2.28	0.68
1:AA:1358:U:P	14:AN:35:ARG:HG3	2.33	0.68
35:DA:2439:A:H2'	35:DA:2439:A:N3	2.07	0.68
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.75	0.68
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.75	0.68
13:AM:78:ILE:O	13:AM:82:MET:HG2	1.93	0.68
13:CM:78:ILE:O	13:CM:82:MET:HG2	1.94	0.68
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.75	0.68
40:BF:20:LEU:HD23	40:BF:21:ALA:N	2.08	0.68
34:B9:1:MET:O	34:B9:34:GLN:HG2	1.93	0.68
1:CA:460:G:H5'	1:CA:461:A:OP2	1.93	0.68
27:D2:55:ARG:O	27:D2:58:ALA:HB3	1.92	0.68
52:BT:45:PHE:CE2	52:BT:74:ARG:HB2	2.28	0.68
35:DA:2801(A):A:H4'	35:DA:2802:G:C8	2.28	0.68
24:CY:392:GLU:HG3	24:CY:393:ASP:OD1	1.93	0.68
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.73	0.68
20:AT:73:HIS:H	20:AT:76:ALA:HB3	1.56	0.68
49:DQ:97:VAL:HG11	49:DQ:103:MET:CE	2.23	0.68
58:BZ:137:ILE:HG21	58:BZ:155:LEU:HD12	1.75	0.68
35:DA:1345:C:O2'	35:DA:1346:G:H5'	1.94	0.68
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.92	0.68
24:AY:252:ASP:O	24:AY:254:LYS:HE3	1.93	0.68
40:DF:53:THR:HG22	40:DF:56:GLU:CG	2.17	0.68
35:BA:2393:A:H5''	48:BP:62:LEU:HB3	1.73	0.68
27:B2:66:GLU:O	27:B2:69:ARG:HG2	1.93	0.68
50:DR:55:ALA:HA	50:DR:80:PHE:CE2	2.29	0.68
50:BR:72:ASP:OD1	50:BR:75:LEU:HB2	1.93	0.68
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.73	0.68
42:BH:67:LEU:O	42:BH:71:LEU:HD12	1.93	0.68
11:CK:122:LYS:O	11:CK:124:LYS:N	2.26	0.68
1:AA:697:U:C2'	1:AA:698:G:H5'	2.23	0.68
9:CI:104:ARG:O	9:CI:105:ASP:HB3	1.92	0.68
4:AD:162:LEU:HD11	4:AD:181:MET:HG2	1.73	0.68
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.09	0.68
49:BQ:35:VAL:HG23	49:BQ:101:ARG:O	1.92	0.68
52:BT:75:ILE:N	52:BT:75:ILE:HD12	2.08	0.68
24:AY:491:VAL:HG11	24:AY:596:LYS:HD3	1.75	0.68
24:CY:91:THR:O	24:CY:93:GLU:N	2.26	0.68
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.26	0.68
31:D6:30:THR:O	31:D6:32:ASN:N	2.26	0.68
31:D6:37:ARG:NH2	35:DA:2286:A:H62	1.90	0.68
48:DP:101:VAL:HG12	48:DP:106:LEU:HB3	1.75	0.68
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.28	0.68
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:57:PHE:O	52:BT:59:THR:HG23	1.92	0.68
35:BA:2068:U:N3	35:BA:2430:A:C2	2.61	0.68
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.75	0.68
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.57	0.68
24:CY:316:ILE:HD12	24:CY:326:THR:HG22	1.74	0.68
51:BS:17:ARG:O	51:BS:20:ARG:HG2	1.92	0.68
35:BA:1120:G:H2'	35:BA:1121:C:C6	2.28	0.68
32:B7:6:GLN:O	35:BA:686:G:H1'	1.92	0.68
41:BG:57:ALA:O	41:BG:68:PRO:HG2	1.93	0.68
1:CA:793:U:C3'	1:CA:794:A:H5''	2.19	0.68
57:DY:84:ARG:HG2	57:DY:84:ARG:HH11	1.59	0.68
40:DF:154:VAL:HG11	40:DF:193:VAL:HG23	1.76	0.68
57:BY:81:LYS:HD3	57:BY:97:ARG:O	1.92	0.68
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.74	0.68
31:B6:15:GLU:HG3	31:B6:47:THR:HG21	1.76	0.68
31:D6:37:ARG:HH22	35:DA:2286:A:H62	1.41	0.68
12:AL:70:ILE:HD12	12:AL:75:HIS:CD2	2.28	0.68
35:DA:940:G:H3'	35:DA:941:A:H5''	1.75	0.68
53:DU:20:LEU:H	53:DU:20:LEU:CD2	2.06	0.68
35:BA:624:C:H41	48:BP:107:LYS:NZ	1.91	0.68
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.07	0.68
52:DT:24:PRO:HD3	52:DT:52:ILE:CD1	2.24	0.68
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.76	0.68
52:DT:85:LYS:HZ3	52:DT:85:LYS:HB3	1.59	0.68
5:CE:91:LEU:HD13	5:CE:120:THR:CG2	2.24	0.68
58:DZ:81:ARG:CZ	58:DZ:81:ARG:HB3	2.23	0.68
35:DA:1223:G:C3'	35:DA:1224:C:H5''	2.23	0.68
35:BA:1779:U:C5	35:BA:1784:A:N7	2.61	0.68
35:BA:2464:C:HO2'	35:BA:2465:C:H6	1.41	0.68
35:BA:1053:C:C2'	35:BA:1054:A:H5''	2.24	0.68
35:BA:654:A:N7	35:BA:654(V):A:H4'	2.08	0.68
24:AY:343:ASN:HD21	24:AY:345:THR:HB	1.57	0.68
35:BA:1099:G:H2'	35:BA:1100:C:O4'	1.94	0.68
1:CA:474:G:H2'	1:CA:475:G:H8	1.58	0.68
35:DA:389:G:H1	48:DP:71:VAL:HG12	1.58	0.68
33:D8:23:VAL:HG12	33:D8:46:ARG:HH11	1.57	0.68
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.58	0.68
35:DA:733:G:H8	35:DA:733:G:O5'	1.75	0.68
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.57	0.68
41:BG:34:LEU:HD11	41:BG:100:TRP:CH2	2.28	0.68
41:BG:116:ASP:O	41:BG:117:PHE:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.94	0.68
35:BA:1242:A:N1	48:BP:8:PRO:HG2	2.08	0.68
38:BD:261:LYS:HZ2	38:BD:263:ARG:HH12	1.39	0.68
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.01	0.68
24:CY:238:THR:HG22	24:CY:241:GLU:HG2	1.74	0.68
41:BG:131:TYR:HB3	41:BG:159:VAL:CG1	2.24	0.68
26:B1:80:LEU:CD2	26:B1:81:LYS:H	2.04	0.68
35:DA:2307:G:N2	35:DA:2308:G:H5''	2.07	0.68
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.74	0.68
29:D4:2:LYS:HB2	36:DB:40:U:O4	1.93	0.68
2:AB:118:LEU:CB	2:AB:142:LEU:HD12	2.23	0.68
12:CL:75:HIS:HD2	12:CL:77:LEU:HD12	1.59	0.68
35:DA:2262:U:C2'	35:DA:2263:C:H5'	2.24	0.68
35:BA:2761:G:C3'	35:BA:2762:G:H5''	2.22	0.68
57:DY:27:VAL:HG12	57:DY:29:GLU:H	1.59	0.68
42:BH:85:LYS:HZ3	42:BH:87:LEU:HG	1.56	0.68
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.24	0.68
11:CK:59:TYR:CE2	11:CK:63:LEU:HD11	2.28	0.68
46:BN:65:LYS:HB3	46:BN:65:LYS:HZ2	1.58	0.68
12:CL:34:ARG:O	12:CL:61:THR:HG23	1.93	0.68
54:BV:6:LYS:O	54:BV:37:VAL:HG21	1.94	0.68
50:DR:7:GLY:O	50:DR:8:ARG:HB2	1.92	0.68
38:DD:76:PRO:HG2	38:DD:98:VAL:HG21	1.76	0.68
28:B3:28:LEU:HA	28:B3:33:GLN:OE1	1.94	0.68
35:BA:900:A:H5'	35:BA:900:A:H8	1.59	0.68
24:CY:114:VAL:O	24:CY:114:VAL:HG13	1.94	0.68
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.57	0.68
39:DE:179:GLU:HB3	39:DE:181:LEU:HD23	1.74	0.68
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.33	0.68
4:CD:10:ARG:O	4:CD:13:ARG:HB2	1.93	0.68
35:BA:272(I):U:O2	35:BA:272(I):U:H3'	1.93	0.68
40:DF:178:PRO:HG2	40:DF:179:GLU:OE1	1.93	0.68
35:DA:2393:A:H5''	48:DP:62:LEU:HB3	1.76	0.68
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.74	0.68
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.23	0.68
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.93	0.68
2:AB:19:HIS:O	2:AB:20:GLU:O	2.12	0.68
27:D2:2:LYS:O	27:D2:6:VAL:HG23	1.94	0.68
58:DZ:132:ASN:O	58:DZ:133:ILE:HD13	1.92	0.68
1:CA:176:C:H2'	1:CA:177:C:H6	1.59	0.68
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:339:SER:HB2	24:CY:352:VAL:CG1	2.24	0.68
22:AV:3:C:H2'	22:AV:4:G:H5'	1.76	0.68
52:DT:45:PHE:CE2	52:DT:74:ARG:HB2	2.28	0.68
52:DT:75:ILE:HD12	52:DT:75:ILE:N	2.09	0.68
11:AK:23:ALA:HB1	11:AK:88:GLY:HA3	1.76	0.68
3:CC:137:ALA:HA	3:CC:140:ARG:NH2	2.08	0.68
35:DA:528:A:C2	35:DA:2043:C:H4'	2.28	0.68
35:DA:528:A:H2	35:DA:2043:C:H4'	1.57	0.68
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.59	0.68
6:AF:16:GLN:CD	6:AF:16:GLN:N	2.47	0.68
39:BE:170:LEU:HD12	39:BE:170:LEU:H	1.58	0.68
61:CY:702:FUA:O1	61:CY:702:FUA:H12	1.93	0.68
22:AV:17:C:H6	22:AV:17(A):U:C5	2.11	0.68
24:AY:121:VAL:HG23	24:AY:122:TRP:N	2.09	0.68
41:DG:141:PHE:HB2	41:DG:144:ILE:HG22	1.74	0.68
57:BY:84:ARG:HH11	57:BY:84:ARG:HG2	1.58	0.68
30:B5:4:HIS:O	35:BA:2056:G:N2	2.26	0.68
3:CC:35:GLU:O	3:CC:38:ARG:HG2	1.92	0.68
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.74	0.68
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.23	0.68
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.08	0.68
42:DH:67:LEU:O	42:DH:71:LEU:HD12	1.94	0.68
35:DA:2631:G:N2	39:DE:61:ARG:HH12	1.91	0.68
35:BA:191:A:H2'	35:BA:192:C:C6	2.29	0.68
2:CB:223:ILE:HA	2:CB:226:ARG:NE	2.08	0.68
35:BA:1656:C:H2'	35:BA:1657:C:H6	1.58	0.68
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.94	0.68
35:DA:191:A:H2'	35:DA:192:C:C6	2.29	0.68
58:BZ:150:LEU:N	58:BZ:150:LEU:HD23	2.09	0.68
35:BA:1542:A:H5'	35:BA:1543:C:OP2	1.93	0.68
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.09	0.68
24:CY:265:LYS:O	24:CY:267:LYS:HG3	1.93	0.68
1:CA:183:G:H2'	1:CA:184:G:C8	2.29	0.68
35:BA:279:C:C2'	35:BA:280:C:H5''	2.24	0.68
35:DA:548:A:C2'	35:DA:549:G:H5'	2.24	0.68
35:DA:654(M):C:O2'	35:DA:654(N):G:H8	1.77	0.68
4:CD:162:LEU:HD11	4:CD:181:MET:HG2	1.75	0.68
46:DN:21:LYS:HB3	46:DN:26:LEU:HD23	1.76	0.68
1:AA:376:G:H2'	1:AA:377:G:H8	1.59	0.68
13:CM:37:THR:HG21	13:CM:56:LEU:HD22	1.75	0.68
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2039:C:H2'	35:DA:2040:C:C6	2.29	0.68
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	2.09	0.68
24:CY:381:LYS:N	24:CY:381:LYS:HD2	2.07	0.68
50:DR:30:THR:OG1	50:DR:75:LEU:HD21	1.93	0.68
42:DH:86:GLU:CB	42:DH:132:ARG:HB3	2.24	0.68
12:CL:113:ARG:HD2	12:CL:115:LYS:H	1.58	0.68
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.76	0.68
41:BG:42:GLY:O	41:BG:44:GLY:N	2.25	0.68
24:CY:84:THR:HA	61:CY:702:FUA:C32	2.21	0.68
35:BA:85:G:OP1	57:BY:30:VAL:HB	1.93	0.68
57:BY:31:LEU:HD22	57:BY:31:LEU:N	2.09	0.68
48:DP:58:THR:O	48:DP:61:ARG:NE	2.19	0.68
35:BA:1058:G:N2	35:BA:1081:U:H1'	2.08	0.68
30:B5:44:THR:HG22	30:B5:45:VAL:N	2.08	0.68
50:BR:55:ALA:HA	50:BR:80:PHE:CE2	2.29	0.68
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	1.94	0.68
48:DP:84:ASN:HA	48:DP:115:LEU:O	1.93	0.68
1:AA:1014:A:H4'	19:AS:14:HIS:ND1	2.09	0.68
35:DA:1599:C:H2'	35:DA:1600:C:H6	1.58	0.68
51:DS:70:GLY:C	51:DS:101:LEU:HD23	2.14	0.68
1:AA:1442:G:H1	1:AA:1461:G:H21	1.42	0.68
5:CE:7:GLU:HG2	5:CE:112:LEU:CD2	2.23	0.68
23:AX:19:U:C5'	24:AY:504:ARG:HB3	2.23	0.68
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.94	0.68
35:DA:1541:G:H4'	35:DA:1542:A:C5'	2.24	0.68
35:DA:756:C:O2'	35:DA:757:U:H5'	1.94	0.68
35:BA:1697:G:H3'	35:BA:1698:A:H5"	1.74	0.68
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.09	0.68
24:CY:424:LEU:HD12	24:CY:427:ALA:HB3	1.76	0.68
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.75	0.68
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	1.93	0.68
16:CP:60:LEU:HA	16:CP:64:ALA:HB3	1.76	0.68
35:DA:2105:C:H42	35:DA:2184:G:H1	1.41	0.68
48:DP:79:ARG:O	48:DP:111:ARG:HB2	1.93	0.68
37:DC:28:ARG:HG2	37:DC:183:PRO:HB3	1.76	0.68
22:AV:61:C:O2'	22:AV:62:C:H5'	1.94	0.68
48:DP:7:ARG:CB	48:DP:8:PRO:HD3	2.23	0.68
46:BN:3:THR:HG22	46:BN:4:TYR:N	2.09	0.68
35:DA:612:C:H2'	35:DA:613:G:C5'	2.13	0.68
1:CA:793:U:H3'	1:CA:794:A:C5'	2.21	0.68
58:DZ:7:ALA:CB	58:DZ:61:LEU:HD23	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:58:VAL:HG23	19:AS:58:VAL:O	1.93	0.68
40:DF:4:VAL:HG13	40:DF:19:GLU:OE2	1.93	0.68
31:D6:11:LEU:HG	31:D6:26:ASN:ND2	2.09	0.68
35:DA:631:A:OP1	48:DP:64:LYS:HE2	1.94	0.68
5:AE:101:ILE:HD13	5:AE:118:ILE:O	1.94	0.68
24:CY:238:THR:C	24:CY:240:GLU:H	1.97	0.68
26:B1:84:GLY:O	26:B1:86:SER:N	2.27	0.68
41:DG:98:ARG:HH11	41:DG:98:ARG:HG2	1.59	0.68
39:BE:48:GLN:HE21	39:BE:78:LEU:HD22	1.59	0.68
24:AY:367:GLU:HG2	24:AY:367:GLU:O	1.94	0.68
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.28	0.68
24:CY:487:ILE:HB	24:CY:597:GLY:O	1.94	0.68
53:BU:107:ALA:HA	53:BU:110:VAL:CG2	2.24	0.68
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.08	0.68
35:DA:2720:U:H2'	35:DA:2721:A:H8	1.57	0.68
21:CU:2:GLY:O	21:CU:4:GLY:N	2.26	0.68
42:BH:86:GLU:CB	42:BH:132:ARG:HB3	2.24	0.68
4:CD:24:GLU:O	4:CD:27:TYR:HB2	1.94	0.68
35:DA:900:A:H5'	35:DA:900:A:H8	1.59	0.68
35:BA:606:U:H2'	35:BA:606:U:O2	1.93	0.68
40:BF:107:LYS:O	40:BF:110:LEU:N	2.27	0.68
24:AY:21:ILE:O	24:AY:22:ASP:HB2	1.93	0.68
53:DU:112:ARG:NH2	54:DV:46:VAL:HG11	2.08	0.68
35:DA:2476:A:N1	35:DA:2477:C:C5	2.62	0.68
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.24	0.68
30:D5:44:THR:HG22	30:D5:45:VAL:N	2.09	0.68
31:D6:15:GLU:HG3	31:D6:47:THR:HG21	1.75	0.68
1:CA:1358:U:P	14:CN:35:ARG:HG3	2.34	0.68
25:B0:7:LEU:CD1	49:BQ:85:LYS:HE2	2.22	0.68
26:B1:82:LEU:O	26:B1:83:GLU:HG3	1.94	0.68
35:DA:2308:G:N2	41:DG:79:ASN:HB2	2.09	0.68
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.93	0.68
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.29	0.68
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.75	0.68
52:BT:129:ARG:HG2	52:BT:129:ARG:O	1.92	0.68
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.76	0.68
24:AY:309:LEU:O	24:AY:390:VAL:HA	1.93	0.68
24:AY:39:ILE:HG23	24:AY:41:LYS:HE3	1.75	0.68
48:DP:13:ASN:O	48:DP:14:LYS:HB2	1.93	0.68
11:CK:84:VAL:HG11	11:CK:95:ILE:HD11	1.76	0.68
1:CA:332:G:H2'	1:CA:333:G:H8	1.60	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:376:G:H2'	1:CA:377:G:H8	1.59	0.68
35:BA:2720:U:H2'	35:BA:2721:A:H8	1.57	0.68
11:AK:108:ILE:N	11:AK:108:ILE:HD12	2.08	0.68
39:DE:170:LEU:H	39:DE:170:LEU:HD12	1.60	0.68
35:DA:1395:A:H4'	35:DA:1397:U:C5	2.29	0.68
35:DA:739:G:H4'	35:DA:740:U:OP1	1.94	0.68
42:DH:154:PRO:O	42:DH:156:ALA:N	2.25	0.67
53:DU:68:ALA:O	53:DU:71:GLN:HB3	1.93	0.67
40:DF:167:ALA:HB1	40:DF:173:VAL:CG1	2.21	0.67
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.56	0.67
52:BT:115:ARG:CB	52:BT:115:ARG:HH11	2.03	0.67
22:CV:47:U:H3'	22:CV:48:C:C5'	2.22	0.67
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.61	0.67
35:DA:142:A:H5'	35:DA:142(A):C:OP2	1.94	0.67
1:AA:267:C:H2'	1:AA:268:C:H6	1.59	0.67
24:AY:335:LEU:HD11	24:AY:352:VAL:HG11	1.73	0.67
52:BT:107:ASP:CG	52:BT:108:ARG:H	1.96	0.67
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD2	2.30	0.67
25:B0:51:VAL:HG22	25:B0:81:VAL:HG23	1.74	0.67
35:DA:1538:G:H2'	35:DA:1539:G:H8	1.59	0.67
1:AA:1308:U:H5''	13:AM:98:VAL:HG23	1.77	0.67
35:DA:555:U:H2'	35:DA:556:G:C8	2.29	0.67
26:D1:56:GLN:NE2	26:D1:87:PRO:HB3	2.08	0.67
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.24	0.67
42:DH:124:GLU:HB2	42:DH:132:ARG:HG3	1.77	0.67
32:D7:6:GLN:O	35:DA:686:G:H1'	1.94	0.67
24:CY:467:LYS:O	24:CY:471:LYS:HA	1.94	0.67
1:CA:160:A:H1'	1:CA:344:A:C5	2.29	0.67
1:CA:267:C:H2'	1:CA:268:C:H6	1.58	0.67
35:BA:1567:A:H2'	38:BD:84:TYR:HE2	1.59	0.67
35:BA:1865:G:H2'	35:BA:1866:C:H5''	1.76	0.67
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.94	0.67
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.29	0.67
28:D3:28:LEU:HA	28:D3:33:GLN:OE1	1.93	0.67
41:BG:106:LEU:HA	41:BG:110:ALA:CB	2.23	0.67
35:BA:769:G:O2'	35:BA:770:G:H5'	1.94	0.67
4:AD:13:ARG:HA	4:AD:33:MET:CE	2.24	0.67
24:CY:454:MET:H	24:CY:458:HIS:HD2	1.41	0.67
53:DU:113:ALA:C	53:DU:115:ALA:H	1.98	0.67
38:DD:39:LYS:NZ	38:DD:87:ASN:HB3	2.09	0.67
50:BR:63:ARG:NH2	50:BR:77:ARG:HG2	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.74	0.67
3:AC:35:GLU:O	3:AC:38:ARG:HG2	1.94	0.67
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.24	0.67
39:BE:63:LEU:O	39:BE:63:LEU:HD23	1.93	0.67
35:DA:2591:C:OP2	38:DD:239:ARG:HB3	1.94	0.67
46:BN:58:ASP:O	46:BN:60:ILE:N	2.27	0.67
51:DS:66:ALA:O	51:DS:99:LYS:HA	1.94	0.67
35:DA:2712:U:HO2'	35:DA:2712(A):A:H8	0.74	0.67
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.25	0.67
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.09	0.67
52:DT:55:ASN:H	52:DT:59:THR:CG2	2.06	0.67
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.41	0.67
4:CD:88:VAL:O	4:CD:92:VAL:HG23	1.95	0.67
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	1.94	0.67
52:BT:129:ARG:O	52:BT:131:ALA:N	2.22	0.67
35:DA:654:A:N7	35:DA:654(V):A:H4'	2.09	0.67
35:BA:518:G:H4'	55:BW:18:ARG:NH1	2.09	0.67
58:BZ:156:LYS:O	58:BZ:158:PRO:HD3	1.94	0.67
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	1.94	0.67
35:BA:566:U:O2'	35:BA:567:A:H5'	1.93	0.67
56:DX:30:VAL:HG22	56:DX:77:LYS:O	1.94	0.67
37:BC:4:HIS:ND1	37:BC:8:TYR:HE2	1.92	0.67
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.56	0.67
1:AA:332:G:H2'	1:AA:333:G:H8	1.58	0.67
40:BF:152:GLU:O	40:BF:154:VAL:HG23	1.94	0.67
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.24	0.67
41:DG:60:LEU:O	41:DG:63:ILE:HG13	1.93	0.67
35:BA:581:C:H2'	35:BA:582:G:C8	2.29	0.67
35:BA:1819:A:H4'	35:BA:1820:U:H5'	1.76	0.67
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.07	0.67
24:CY:388:THR:CG2	24:CY:399:LEU:HD13	2.24	0.67
34:D9:17:ILE:HG21	34:D9:19:ARG:HH21	1.60	0.67
51:DS:85:VAL:HG23	51:DS:106:ARG:HG3	1.76	0.67
38:BD:267:SER:CA	38:BD:270:ILE:HD11	2.25	0.67
38:DD:183:ARG:HG2	38:DD:183:ARG:NH1	2.08	0.67
27:D2:46:GLN:OE1	35:DA:95:G:H4'	1.94	0.67
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.92	0.67
35:DA:970:C:H2'	35:DA:971:C:C6	2.29	0.67
24:CY:65:ILE:O	24:CY:67:ALA:N	2.26	0.67
35:BA:555:U:H2'	35:BA:556:G:C8	2.29	0.67
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D5:25:LEU:CD1	55:DW:19:LEU:HB3	2.25	0.67
35:BA:548:A:C2'	35:BA:549:G:H5'	2.24	0.67
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.63	0.67
57:DY:31:LEU:HD22	57:DY:31:LEU:N	2.08	0.67
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.58	0.67
22:AW:1:C:H2'	22:AW:2:G:H8	1.59	0.67
1:CA:473:G:H2'	1:CA:474:G:H8	1.59	0.67
28:B3:28:LEU:N	28:B3:28:LEU:HD23	2.09	0.67
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.94	0.67
1:AA:60:A:H5''	1:AA:331:G:H22	1.58	0.67
35:DA:1718:G:H5'	35:DA:1718:G:H8	1.60	0.67
40:DF:43:LYS:HA	40:DF:98:SER:HB3	1.74	0.67
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.09	0.67
29:B4:1:MET:HG2	41:BG:98:ARG:NE	2.09	0.67
30:B5:19:ARG:HA	35:BA:2046:G:H5'	1.76	0.67
35:BA:903:C:H2'	35:BA:904:C:C5'	2.18	0.67
53:DU:83:LEU:H	53:DU:83:LEU:CD1	2.08	0.67
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.29	0.67
41:BG:173:LEU:HA	41:BG:176:LEU:CD1	2.25	0.67
35:BA:2346:A:H1'	35:BA:2383:G:C8	2.29	0.67
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.94	0.67
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.94	0.67
25:B0:16:SER:HB2	35:BA:2262:U:H5	1.59	0.67
39:DE:78:LEU:O	39:DE:79:ARG:HD2	1.93	0.67
58:DZ:153:SER:HB2	58:DZ:163:LEU:CD1	2.23	0.67
2:CB:21:ARG:HD2	2:CB:39:ILE:HG12	1.74	0.67
50:DR:10:LEU:HD22	50:DR:17:ARG:HD3	1.76	0.67
27:D2:32:LEU:HB2	27:D2:53:LEU:HD22	1.75	0.67
35:DA:2466:C:O2'	35:DA:2467:C:H5'	1.94	0.67
3:AC:150:LYS:HB2	3:AC:169:ALA:HB1	1.76	0.67
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.10	0.67
20:CT:48:LYS:HB3	20:CT:51:GLU:HG2	1.77	0.67
4:CD:5:ILE:HA	4:CD:115:ARG:HH12	1.57	0.67
3:CC:123:GLN:HB3	3:CC:128:PHE:HD2	1.58	0.67
35:BA:20:C:O2'	35:BA:21:A:H5'	1.93	0.67
19:CS:40:ILE:HG21	19:CS:66:MET:O	1.95	0.67
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	1.93	0.67
12:AL:113:ARG:HD2	12:AL:115:LYS:H	1.58	0.67
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.29	0.67
41:BG:54:GLU:O	41:BG:57:ALA:HB3	1.94	0.67
41:BG:61:ALA:HB1	41:BG:66:GLN:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:131:ALA:CB	39:BE:134:ILE:HD11	2.15	0.67
40:DF:107:LYS:O	40:DF:110:LEU:N	2.26	0.67
48:DP:62:LEU:N	48:DP:62:LEU:CD2	2.58	0.67
35:BA:807:U:OP2	48:BP:39:LYS:HG3	1.95	0.67
35:BA:2524:G:C8	35:BA:2524:G:H5'	2.28	0.67
46:BN:45:ASN:ND2	46:BN:45:ASN:H	1.90	0.67
39:DE:63:LEU:O	39:DE:63:LEU:HD23	1.93	0.67
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.24	0.67
29:D4:14:ILE:N	29:D4:14:ILE:HD12	2.10	0.67
54:BV:28:GLU:OE1	54:BV:31:ALA:HB2	1.94	0.67
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.08	0.67
35:DA:364:C:C2'	35:DA:365:C:H5''	2.24	0.67
35:DA:1030:G:OP2	49:DQ:128:LYS:HE2	1.95	0.67
1:AA:584:G:H2'	1:AA:585:G:H8	1.59	0.67
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.94	0.67
24:CY:680:PRO:O	24:CY:682:GLN:HG2	1.93	0.67
16:AP:49:LEU:HD22	16:AP:73:LEU:HD22	1.74	0.67
41:BG:82:LEU:HD11	41:BG:87:PRO:HB3	1.76	0.67
40:BF:25:PRO:HG3	40:BF:119:ARG:HB2	1.76	0.67
35:BA:559:G:H22	53:BU:49:HIS:CD2	2.13	0.67
54:BV:39:LEU:O	54:BV:40:LEU:HB2	1.93	0.67
31:B6:10:LEU:H	31:B6:10:LEU:HD23	1.58	0.67
33:B8:33:ASN:O	33:B8:34:TRP:HB3	1.93	0.67
35:BA:363(B):G:H2'	35:BA:363(C):G:H8	1.58	0.67
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.06	0.67
31:D6:38:LYS:HD3	35:DA:2344:U:OP1	1.94	0.67
46:BN:48:MET:CE	46:BN:48:MET:H	2.06	0.67
2:CB:118:LEU:CB	2:CB:142:LEU:HD12	2.21	0.67
48:DP:85:LEU:CD1	48:DP:120:ALA:HB2	2.22	0.67
12:CL:70:ILE:HD12	12:CL:75:HIS:CD2	2.29	0.67
41:DG:121:ASN:HB3	41:DG:124:SER:CB	2.22	0.67
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.77	0.67
2:AB:204:ASN:C	2:AB:204:ASN:HD22	1.94	0.67
24:AY:72:CYS:SG	24:AY:79:ILE:HB	2.34	0.67
1:AA:1325:C:H2'	1:AA:1326:C:H6	1.58	0.67
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.10	0.67
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.29	0.67
55:BW:68:ARG:HA	55:BW:110:LYS:HG2	1.76	0.67
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.09	0.67
35:BA:958:U:OP2	49:BQ:14:ARG:NH1	2.27	0.67
54:DV:6:LYS:O	54:DV:37:VAL:HG21	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:155:GLU:N	8:AH:46:LYS:HG2	2.09	0.67
24:CY:293:THR:HB	24:CY:294:PRO:HD2	1.76	0.67
1:CA:1459:C:H2'	1:CA:1460:A:C8	2.30	0.67
35:BA:1395:A:H4'	35:BA:1397:U:C5	2.30	0.67
35:BA:1113:U:H2'	35:BA:1114:G:C8	2.29	0.67
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD2	2.29	0.67
10:AJ:4:ILE:N	10:AJ:4:ILE:HD12	2.09	0.67
4:AD:33:MET:O	4:AD:37:PRO:HG3	1.94	0.67
24:CY:453:GLY:HA3	24:CY:459:LEU:HD23	1.77	0.67
40:DF:192:LEU:C	40:DF:192:LEU:HD23	2.15	0.67
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.25	0.67
35:DA:1504:C:H2'	35:DA:1505:C:H5''	1.75	0.67
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.24	0.67
53:BU:20:LEU:N	53:BU:20:LEU:HD22	2.08	0.67
39:DE:117:MET:HG2	39:DE:117:MET:O	1.94	0.67
33:D8:4:MET:O	33:D8:62:LEU:HD12	1.95	0.67
35:DA:813:U:H2'	35:DA:814:C:H6	1.59	0.67
1:AA:973:G:H3'	1:AA:974:A:H5''	1.76	0.67
52:BT:82:LEU:N	52:BT:82:LEU:HD12	2.10	0.67
35:DA:2186:G:H2'	35:DA:2187:G:H5''	1.77	0.67
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.75	0.67
39:BE:113:PHE:CE2	39:BE:158:GLY:HA2	2.30	0.67
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.77	0.67
24:CY:82:ILE:HD12	24:CY:101:LEU:HD23	1.75	0.67
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.24	0.67
27:B2:21:LEU:O	27:B2:24:LEU:HB3	1.95	0.67
27:D2:58:ALA:HB1	35:DA:76:C:C4'	2.24	0.67
35:BA:1790:C:H5''	35:BA:1791:A:OP1	1.95	0.67
35:DA:2832:U:H1'	35:DA:2834:G:N3	2.10	0.67
1:CA:584:G:H2'	1:CA:585:G:C8	2.30	0.67
35:DA:271(J):C:H2'	35:DA:271(J):C:O2	1.94	0.67
2:CB:43:ASP:OD2	2:CB:46:LYS:HB2	1.95	0.67
13:AM:37:THR:HG21	13:AM:56:LEU:HD22	1.76	0.67
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.60	0.67
10:CJ:32:ALA:HB2	10:CJ:76:ASN:ND2	2.10	0.67
24:CY:137:ASN:HD21	24:CY:263:ALA:CB	2.08	0.67
51:BS:85:VAL:HG23	51:BS:106:ARG:HG3	1.76	0.67
35:DA:1081:U:H5''	44:DK:122:ALA:HB1	1.77	0.67
35:DA:581:C:H2'	35:DA:582:G:C8	2.29	0.67
46:BN:43:THR:O	46:BN:46:VAL:HG12	1.94	0.67
2:CB:19:HIS:O	2:CB:20:GLU:O	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:631:ILE:HG21	35:DA:1067:A:C4	2.30	0.67
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.59	0.67
52:DT:106:SER:HA	52:DT:110:ILE:HG12	1.77	0.67
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.77	0.67
35:DA:1435:G:H5'	35:DA:1436:G:OP2	1.93	0.67
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.60	0.67
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.30	0.67
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.30	0.67
3:CC:134:ILE:HD11	3:CC:153:VAL:HG23	1.76	0.67
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.74	0.67
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE2	1.94	0.67
1:AA:160:A:H1'	1:AA:344:A:C5	2.29	0.67
49:BQ:79:LEU:HD23	49:BQ:80:GLU:H	1.58	0.67
14:CN:12:ARG:C	14:CN:14:PRO:HD3	2.15	0.67
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.29	0.67
37:BC:78:ILE:O	37:BC:120:VAL:HG21	1.95	0.67
35:DA:825:C:O2'	35:DA:826:U:H5'	1.94	0.67
48:DP:62:LEU:N	48:DP:62:LEU:HD23	2.09	0.67
24:CY:145:ASP:O	24:CY:149:VAL:HG23	1.93	0.67
37:DC:128:LEU:HD12	37:DC:131:ILE:HB	1.76	0.67
48:DP:38:GLN:HG3	48:DP:39:LYS:N	2.08	0.67
51:BS:30:ARG:HD3	51:BS:97:ARG:HG2	1.75	0.67
48:DP:30:THR:CG2	48:DP:31:ALA:H	2.07	0.67
46:DN:48:MET:CE	46:DN:48:MET:H	2.07	0.67
27:D2:2:LYS:CB	35:DA:97:C:H5''	2.25	0.67
22:CV:49:G:H1	22:CV:65:C:N4	1.92	0.67
58:DZ:95:PRO:HA	58:DZ:129:SER:HA	1.77	0.67
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.76	0.67
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.42	0.67
1:AA:176:C:H2'	1:AA:177:C:H6	1.59	0.67
35:BA:419:C:H2'	35:BA:420:C:C6	2.29	0.67
39:DE:179:GLU:O	39:DE:180:ASN:HB2	1.94	0.67
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.60	0.67
24:AY:395:PRO:O	24:AY:397:VAL:N	2.27	0.67
24:CY:553:GLY:H	24:CY:557:GLY:HA2	1.60	0.67
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.75	0.67
24:CY:655:TYR:OH	24:CY:659:LEU:HD23	1.95	0.67
16:CP:74:LEU:CD2	16:CP:79:VAL:HG21	2.24	0.67
21:AU:2:GLY:O	21:AU:4:GLY:N	2.28	0.67
35:DA:1183:G:O2'	35:DA:1184:G:H5'	1.94	0.67
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:76:VAL:O	42:DH:79:VAL:HG22	1.95	0.67
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	2.10	0.67
35:DA:491:G:H2'	35:DA:492:A:H8	1.60	0.67
41:BG:112:PRO:O	41:BG:113:ARG:CA	2.36	0.67
10:AJ:3:LYS:O	10:AJ:100:THR:HG23	1.95	0.67
1:CA:980:C:C5	1:CA:981:U:C2	2.83	0.67
24:CY:21:ILE:H	24:CY:21:ILE:HD13	1.60	0.67
40:BF:192:LEU:HD23	40:BF:192:LEU:C	2.16	0.67
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.29	0.67
33:B8:50:LEU:CD1	33:B8:51:ALA:H	2.08	0.67
35:DA:1058:G:N2	35:DA:1081:U:H1'	2.10	0.67
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.76	0.67
24:AY:526:VAL:HB	24:AY:566:THR:HA	1.77	0.67
54:BV:19:LYS:HE2	54:BV:20:LEU:H	1.61	0.67
51:DS:98:VAL:HG12	51:DS:100:ALA:H	1.59	0.67
35:BA:1541:G:H4'	35:BA:1542:A:C5'	2.25	0.67
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.92	0.67
24:AY:404:VAL:N	24:AY:405:PRO:HD3	2.11	0.67
1:CA:1308:U:H5''	13:CM:98:VAL:HG23	1.75	0.67
1:CA:294:U:H2'	1:CA:295:C:C6	2.30	0.67
51:BS:19:LYS:HB3	51:BS:20:ARG:NH2	2.10	0.67
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.60	0.67
9:AI:40:LEU:HD11	9:AI:70:LYS:HG2	1.75	0.67
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.30	0.67
51:DS:58:LEU:HD12	51:DS:59:LYS:H	1.60	0.67
26:B1:26:ARG:HG3	26:B1:27:GLU:H	1.60	0.67
51:BS:58:LEU:HD12	51:BS:59:LYS:H	1.59	0.67
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.59	0.67
44:DK:7:VAL:O	44:DK:7:VAL:HG13	1.94	0.67
35:DA:1644:C:O2	35:DA:1644:C:H2'	1.94	0.67
24:CY:343:ASN:C	24:CY:343:ASN:HD22	1.99	0.67
35:DA:2241:A:H2'	35:DA:2242:G:C8	2.30	0.67
35:DA:1242:A:N1	48:DP:8:PRO:HG2	2.09	0.66
22:AV:17:C:H6	22:AV:17(A):U:H5	1.40	0.66
24:AY:230:LYS:HE2	24:AY:241:GLU:OE1	1.95	0.66
53:BU:112:ARG:NH2	54:BV:46:VAL:HG11	2.10	0.66
53:BU:113:ALA:C	53:BU:115:ALA:H	1.97	0.66
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.76	0.66
16:CP:33:ILE:O	16:CP:34:GLU:HB2	1.94	0.66
35:BA:1902:C:H4'	38:BD:244:ARG:HB2	1.77	0.66
52:DT:115:ARG:HH11	52:DT:115:ARG:CB	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:77:LEU:HD23	44:DK:77:LEU:N	2.10	0.66
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.24	0.66
35:BA:1656:C:H2'	35:BA:1657:C:C6	2.29	0.66
19:CS:20:LEU:HA	19:CS:23:ASN:HB2	1.75	0.66
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.25	0.66
1:CA:1368:G:O2'	1:CA:1369:C:H5'	1.95	0.66
35:BA:936:C:H2'	35:BA:937:U:C6	2.30	0.66
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	1.94	0.66
35:DA:1682:G:H2'	35:DA:1683:C:H6	1.59	0.66
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.09	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:NH2	2.10	0.66
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.77	0.66
16:CP:74:LEU:HD23	16:CP:79:VAL:HG21	1.74	0.66
39:DE:26:ILE:HG21	39:DE:196:VAL:HG21	1.77	0.66
28:D3:6:VAL:HB	28:D3:54:VAL:HG11	1.77	0.66
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.30	0.66
35:BA:389:G:H1	48:BP:71:VAL:HG12	1.60	0.66
55:DW:64:MET:O	55:DW:65:LEU:HB3	1.94	0.66
35:DA:1567:A:H2'	38:DD:84:TYR:HE2	1.58	0.66
6:CF:80:ARG:HH11	6:CF:88:VAL:HB	1.59	0.66
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.77	0.66
44:BK:14:ALA:HA	44:BK:41:PHE:CE2	2.30	0.66
35:BA:2476:A:N1	35:BA:2477:C:C5	2.63	0.66
35:BA:1846:G:H5'	35:BA:1846:G:C8	2.24	0.66
35:BA:940:G:H3'	35:BA:941:A:H5''	1.77	0.66
40:DF:152:GLU:O	40:DF:154:VAL:HG23	1.94	0.66
52:DT:28:VAL:HG21	52:DT:46:GLU:CG	2.22	0.66
35:BA:142:A:H5'	35:BA:142(A):C:OP2	1.95	0.66
44:DK:109:LYS:O	44:DK:112:MET:HG2	1.94	0.66
51:DS:85:VAL:C	51:DS:106:ARG:HG2	2.16	0.66
52:BT:30:VAL:HG21	52:BT:84:GLN:H	1.61	0.66
44:DK:23:VAL:HG13	44:DK:27:LEU:HD22	1.76	0.66
24:CY:489:LYS:HD3	24:CY:598:ASP:OD1	1.93	0.66
52:DT:57:PHE:O	52:DT:59:THR:HG23	1.96	0.66
29:B4:14:ILE:N	29:B4:14:ILE:HD12	2.10	0.66
53:DU:107:ALA:HA	53:DU:110:VAL:HG23	1.77	0.66
35:BA:1788:C:O2'	35:BA:1789:A:H5'	1.95	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:HH22	1.60	0.66
35:BA:1115:G:H8	35:BA:1115:G:H5'	1.60	0.66
1:CA:1160:G:N3	1:CA:1160:G:H2'	2.10	0.66
13:AM:10:PRO:HG2	13:AM:11:ARG:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:12:ARG:C	14:AN:14:PRO:HD3	2.16	0.66
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.59	0.66
48:BP:122:PRO:HB3	48:BP:141:ALA:HB1	1.77	0.66
2:CB:27:LYS:HD3	2:CB:195:ASP:OD1	1.95	0.66
35:DA:657:U:H2'	35:DA:658:C:C6	2.31	0.66
35:BA:229:A:H3'	35:BA:230:U:H5'	1.77	0.66
38:BD:166:GLN:HA	38:BD:166:GLN:HE21	1.61	0.66
1:AA:491:G:H2'	1:AA:492:G:H8	1.59	0.66
4:AD:30:LYS:C	4:AD:32:ALA:N	2.47	0.66
35:DA:1656:C:H2'	35:DA:1657:C:C6	2.31	0.66
24:AY:84:THR:N	24:AY:85:PRO:CD	2.55	0.66
48:BP:7:ARG:CB	48:BP:8:PRO:HD3	2.23	0.66
61:AY:702:FUA:H201	61:AY:702:FUA:O1	1.95	0.66
35:DA:363(B):G:H2'	35:DA:363(C):G:H8	1.59	0.66
41:DG:45:GLU:O	41:DG:51:ARG:HB3	1.96	0.66
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.10	0.66
51:BS:85:VAL:C	51:BS:106:ARG:HG2	2.16	0.66
35:DA:2346:A:C2	35:DA:2383:G:C2	2.84	0.66
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.78	0.66
26:B1:73:LEU:HD23	26:B1:94:LEU:HD23	1.78	0.66
48:BP:115:LEU:HD23	48:BP:115:LEU:N	2.10	0.66
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	1.95	0.66
51:DS:104:GLY:C	51:DS:106:ARG:H	1.99	0.66
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.76	0.66
24:AY:100:VAL:HG23	24:AY:329:ARG:HG2	1.76	0.66
35:DA:1514:U:H2'	35:DA:1515:G:H8	1.61	0.66
48:DP:108:LYS:C	48:DP:110:TYR:H	1.98	0.66
1:AA:473:G:H2'	1:AA:474:G:H8	1.60	0.66
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.25	0.66
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.10	0.66
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.59	0.66
41:BG:90:LEU:HD12	41:BG:91:ARG:H	1.59	0.66
24:CY:17:ILE:HD12	24:CY:17:ILE:N	2.08	0.66
24:AY:119:GLU:O	24:AY:121:VAL:HG22	1.96	0.66
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.16	0.66
31:D6:45:LYS:HD3	35:DA:2371:G:O3'	1.96	0.66
26:B1:45:ASN:HD22	26:B1:46:LEU:N	1.92	0.66
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.25	0.66
54:DV:19:LYS:HE2	54:DV:20:LEU:H	1.59	0.66
35:BA:191:A:H2'	35:BA:192:C:H6	1.60	0.66
40:BF:65:TRP:CZ3	40:BF:75:HIS:HD2	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:222:ILE:HB	2:AB:226:ARG:HH21	1.59	0.66
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.61	0.66
35:DA:2425:A:H4'	35:DA:2426:A:H5''	1.75	0.66
44:DK:21:PRO:HG3	44:DK:25:PRO:HD3	1.77	0.66
26:D1:80:LEU:HB3	26:D1:82:LEU:HD11	1.76	0.66
50:BR:10:LEU:HD22	50:BR:17:ARG:HD3	1.77	0.66
9:AI:5:TYR:CD2	9:AI:6:GLY:N	2.64	0.66
39:BE:199:ARG:HB3	39:BE:200:GLU:OE2	1.95	0.66
11:AK:16:SER:O	11:AK:35:PRO:HG3	1.95	0.66
20:AT:48:LYS:HB3	20:AT:51:GLU:HG2	1.78	0.66
27:B2:13:ALA:HA	27:B2:16:LEU:CD1	2.26	0.66
3:AC:137:ALA:HA	3:AC:140:ARG:NH2	2.09	0.66
1:CA:1294:G:O2'	1:CA:1295:G:H5'	1.95	0.66
6:CF:16:GLN:N	6:CF:16:GLN:CD	2.49	0.66
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.77	0.66
36:BB:26:A:H2'	36:BB:27:C:C6	2.30	0.66
2:AB:27:LYS:HD3	2:AB:195:ASP:OD1	1.94	0.66
35:DA:2668:G:O2'	35:DA:2669:G:H5'	1.95	0.66
26:B1:64:ALA:HA	26:B1:67:ILE:HG13	1.76	0.66
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.76	0.66
29:B4:9:LEU:HD23	41:BG:65:GLY:HA3	1.76	0.66
53:DU:61:TRP:O	53:DU:65:ILE:HG13	1.95	0.66
16:AP:33:ILE:O	16:AP:34:GLU:HB2	1.94	0.66
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ3	1.61	0.66
49:DQ:55:VAL:CG1	49:DQ:56:ARG:N	2.59	0.66
44:BK:109:LYS:O	44:BK:112:MET:HG2	1.95	0.66
35:BA:2631:G:N2	39:BE:61:ARG:HH12	1.93	0.66
24:CY:632:LEU:CG	24:CY:645:ALA:HA	2.26	0.66
55:DW:5:ALA:O	55:DW:6:ILE:HB	1.93	0.66
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.24	0.66
38:BD:91:ARG:NH1	38:BD:91:ARG:HG2	2.04	0.66
9:AI:104:ARG:O	9:AI:105:ASP:HB3	1.94	0.66
58:DZ:77:ASP:HB2	58:DZ:82:ARG:HB3	1.78	0.66
42:DH:124:GLU:CB	42:DH:132:ARG:HG3	2.25	0.66
1:AA:584:G:H2'	1:AA:585:G:C8	2.30	0.66
1:AA:474:G:H2'	1:AA:475:G:H8	1.58	0.66
35:BA:1010:A:H1'	35:BA:1153:C:H1'	1.76	0.66
7:CG:27:ILE:CD1	7:CG:40:ALA:HA	2.26	0.66
1:AA:748:C:H6	1:AA:748:C:OP2	1.79	0.66
42:BH:76:VAL:O	42:BH:79:VAL:HG22	1.95	0.66
43:BJ:73:UNK:C	43:BJ:75:UNK:N	2.53	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:748:C:OP2	1:CA:748:C:H6	1.78	0.66
51:DS:40:ILE:HG22	51:DS:41:ASP:N	2.09	0.66
10:AJ:32:ALA:HB2	10:AJ:76:ASN:ND2	2.10	0.66
53:DU:111:GLU:O	53:DU:115:ALA:HB2	1.95	0.66
31:B6:10:LEU:HD22	31:B6:10:LEU:H	1.59	0.66
51:DS:15:ARG:HB3	51:DS:18:ILE:CD1	2.24	0.66
35:DA:807:U:OP2	48:DP:39:LYS:HG3	1.94	0.66
35:DA:2346:A:H1'	35:DA:2383:G:C8	2.30	0.66
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.06	0.66
35:DA:580:C:H2'	35:DA:581:C:C6	2.31	0.66
48:DP:114:ILE:HD12	48:DP:115:LEU:N	2.09	0.66
48:BP:114:ILE:HD12	48:BP:115:LEU:N	2.11	0.66
29:D4:1:MET:HG2	41:DG:98:ARG:CZ	2.25	0.66
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.78	0.66
1:CA:973:G:H1'	10:CJ:55:LYS:HZ1	1.61	0.66
35:BA:2591:C:OP2	38:BD:239:ARG:HB3	1.96	0.66
52:BT:85:LYS:HB3	52:BT:85:LYS:HZ2	1.59	0.66
38:DD:158:ALA:O	38:DD:196:VAL:HG11	1.96	0.66
35:BA:1223:G:C3'	35:BA:1224:C:H5''	2.24	0.66
46:BN:67:LEU:HB3	46:BN:88:GLU:CG	2.26	0.66
39:DE:11:MET:CB	39:DE:24:THR:HA	2.25	0.66
35:BA:2162:G:H2'	35:BA:2163:C:C6	2.31	0.66
58:DZ:143:GLY:O	58:DZ:144:LEU:HD13	1.96	0.66
38:DD:117:VAL:HG23	38:DD:129:ASN:HA	1.75	0.66
35:DA:1113:U:H2'	35:DA:1114:G:C8	2.30	0.66
1:AA:294:U:H2'	1:AA:295:C:C6	2.29	0.66
46:BN:21:LYS:HB3	46:BN:26:LEU:HD23	1.78	0.66
35:BA:2196:C:O2'	35:BA:2197:U:H5'	1.96	0.66
35:DA:145:G:H2'	35:DA:146:G:H8	1.61	0.66
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.76	0.66
35:BA:1917:U:O2'	35:BA:1918:A:H5'	1.95	0.66
9:AI:53:VAL:C	9:AI:55:ALA:H	1.99	0.66
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.09	0.66
35:BA:1217:C:OP2	53:BU:15:LYS:NZ	2.23	0.66
35:DA:1268:A:H2'	35:DA:1269:A:O4'	1.96	0.66
57:BY:51:VAL:C	57:BY:53:PRO:HD2	2.16	0.66
37:BC:48:LEU:HD12	37:BC:48:LEU:N	2.11	0.66
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.96	0.66
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	1.96	0.66
41:BG:28:VAL:O	41:BG:31:VAL:HG12	1.95	0.66
4:AD:24:GLU:O	4:AD:27:TYR:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:903:C:H2'	35:DA:904:C:C5'	2.18	0.66
31:B6:27:LYS:HD2	31:B6:30:THR:HB	1.78	0.66
48:BP:41:ARG:CA	48:BP:41:ARG:HH21	2.05	0.66
58:BZ:4:ARG:NH1	58:BZ:66:SER:HB2	2.10	0.66
31:D6:19:ARG:O	31:D6:20:ASN:O	2.14	0.66
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.25	0.66
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.11	0.66
41:DG:123:ASN:C	41:DG:125:PHE:H	1.99	0.66
54:DV:19:LYS:CE	54:DV:20:LEU:H	2.09	0.66
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.31	0.66
16:AP:8:ARG:HB3	16:AP:28:ARG:HH12	1.60	0.66
19:CS:6:LYS:H	19:CS:6:LYS:CE	2.09	0.66
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.29	0.66
1:AA:191:G:C4	20:AT:105:SER:HB3	2.30	0.66
26:D1:8:SER:HB3	26:D1:66:HIS:CE1	2.31	0.66
38:BD:153:ALA:C	38:BD:154:LYS:HG3	2.16	0.66
47:DO:64:ARG:O	47:DO:82:ASN:HA	1.96	0.66
28:D3:28:LEU:HD23	28:D3:28:LEU:N	2.10	0.66
35:DA:784:A:H5''	38:DD:227:ASN:ND2	2.11	0.66
32:B7:46:VAL:HG12	32:B7:47:ARG:N	2.11	0.66
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.10	0.66
1:CA:20:U:H2'	1:CA:21:G:O4'	1.95	0.66
1:CA:1347:G:H3'	9:CI:108:VAL:O	1.95	0.66
11:CK:16:SER:O	11:CK:35:PRO:HG3	1.95	0.66
36:DB:26:A:H2'	36:DB:27:C:C6	2.31	0.66
35:BA:2241:A:H2'	35:BA:2242:G:C8	2.30	0.66
58:BZ:18:LEU:O	58:BZ:21:ALA:HB3	1.96	0.66
1:AA:1261:A:H2'	1:AA:1262:C:H5'	1.76	0.66
24:AY:466:LEU:HA	24:AY:470:PHE:HD2	1.58	0.66
38:DD:35:LYS:HD2	38:DD:36:PRO:CA	2.25	0.66
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.22	0.66
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.11	0.66
37:DC:134:PRO:C	37:DC:135:ARG:HD2	2.15	0.66
35:DA:27:G:HO2'	35:DA:28:A:H8	1.41	0.66
44:BK:57:ILE:N	44:BK:57:ILE:HD12	2.11	0.66
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.11	0.66
1:CA:1234:C:O2'	1:CA:1235:U:H5'	1.96	0.66
51:DS:67:ARG:HB3	51:DS:71:ARG:HH22	1.61	0.66
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.62	0.66
32:B7:28:ARG:HG3	32:B7:28:ARG:HH11	1.60	0.66
40:DF:125:LEU:HD23	40:DF:125:LEU:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:715:A:H2'	1:AA:716:A:C8	2.30	0.66
40:BF:125:LEU:HD23	40:BF:125:LEU:H	1.60	0.66
41:BG:56:ALA:HB1	41:BG:153:ARG:NE	2.11	0.66
24:CY:26:THR:HA	24:CY:83:ASP:OD1	1.95	0.66
40:BF:4:VAL:HG13	40:BF:19:GLU:OE2	1.95	0.66
22:CW:37:U:H3	23:CX:13:A:H61	1.44	0.66
38:DD:35:LYS:HG2	38:DD:63:ARG:CA	2.24	0.66
57:DY:88:LYS:O	57:DY:90:LEU:HD23	1.95	0.66
41:DG:139:LEU:HA	41:DG:144:ILE:HG21	1.78	0.66
41:DG:62:LEU:HD12	41:DG:62:LEU:N	2.04	0.66
10:CJ:3:LYS:O	10:CJ:100:THR:HG23	1.96	0.66
35:BA:1080:C:O2'	35:BA:1081:U:H5'	1.96	0.66
3:CC:70:VAL:CG1	3:CC:72:LYS:H	2.03	0.66
24:CY:115:GLU:OE1	24:CY:152:THR:HG21	1.96	0.66
12:AL:18:VAL:O	12:AL:19:ARG:HB3	1.96	0.66
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.07	0.66
1:AA:1321:C:H5''	1:AA:1322:C:C5'	2.26	0.66
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	1.95	0.66
2:CB:54:THR:O	2:CB:58:ILE:HG13	1.95	0.66
44:BK:6:ALA:CB	44:BK:59:ILE:HG22	2.21	0.66
56:DX:35:THR:HB	56:DX:38:GLU:HB2	1.77	0.66
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.24	0.66
35:BA:2069:G:O2'	35:BA:2070:G:H5'	1.96	0.66
35:DA:191:A:H2'	35:DA:192:C:H6	1.60	0.66
44:DK:57:ILE:N	44:DK:57:ILE:HD12	2.10	0.66
24:AY:517:LEU:HB3	24:AY:521:SER:CB	2.26	0.66
24:AY:485:GLU:HG3	24:AY:553:GLY:HA3	1.77	0.66
52:BT:106:SER:HA	52:BT:110:ILE:HG12	1.78	0.66
24:CY:530:VAL:HG12	24:CY:533:VAL:HG23	1.78	0.66
24:CY:99:ARG:HE	24:CY:128:TYR:HB2	1.61	0.66
44:BK:93:ARG:HB2	58:BZ:112:ARG:NE	2.09	0.66
5:AE:91:LEU:HD13	5:AE:120:THR:CG2	2.25	0.66
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.11	0.66
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.11	0.66
42:BH:154:PRO:O	42:BH:156:ALA:N	2.27	0.66
1:AA:630:G:C2'	1:AA:631:G:H5''	2.26	0.66
35:DA:279:C:C2'	35:DA:280:C:H5''	2.25	0.66
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.11	0.66
35:BA:2241:A:H2'	35:BA:2242:G:H8	1.60	0.66
6:AF:80:ARG:HH11	6:AF:88:VAL:HB	1.60	0.66
3:AC:11:ARG:O	3:AC:13:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:52:C:H3'	22:CW:53:G:H5''	1.77	0.66
30:D5:19:ARG:HA	35:DA:2046:G:H5'	1.78	0.66
1:CA:1261:A:H2'	1:CA:1262:C:H5'	1.77	0.66
1:CA:41:G:H2'	1:CA:42:G:H8	1.59	0.66
58:BZ:82:ARG:O	58:BZ:83:PRO:C	2.32	0.66
35:DA:1278:A:H5''	50:DR:36:THR:HG22	1.77	0.66
39:BE:26:ILE:HG21	39:BE:196:VAL:HG21	1.77	0.66
44:DK:56:GLU:O	44:DK:67:PHE:HA	1.96	0.66
42:DH:175:LYS:O	42:DH:176:ALA:HB3	1.97	0.66
24:AY:17:ILE:O	24:AY:85:PRO:HG2	1.96	0.66
35:DA:559:G:H22	53:DU:49:HIS:CD2	2.14	0.66
54:DV:39:LEU:O	54:DV:40:LEU:HB2	1.95	0.66
24:AY:12:LEU:HB3	24:AY:283:PRO:HG2	1.78	0.66
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.29	0.66
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ1	1.60	0.66
58:BZ:99:TYR:HE2	58:BZ:125:LEU:HD13	1.61	0.66
57:BY:74:PRO:O	57:BY:80:GLY:HA2	1.96	0.66
35:BA:1081:U:H5''	44:BK:122:ALA:HB1	1.77	0.66
1:CA:1038:C:H2'	1:CA:1039:C:C5	2.30	0.66
26:D1:46:LEU:CD2	26:D1:46:LEU:H	2.07	0.66
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.06	0.66
50:BR:30:THR:OG1	50:BR:75:LEU:HD21	1.95	0.66
38:DD:43:ARG:HB3	38:DD:54:ARG:HB2	1.78	0.66
25:B0:16:SER:OG	35:BA:2261:C:H3'	1.96	0.66
35:DA:139:G:C6	35:DA:140:G:H2'	2.30	0.66
35:DA:814:C:H2'	35:DA:815:C:C6	2.30	0.66
44:BK:23:VAL:HG13	44:BK:27:LEU:HD22	1.77	0.66
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.44	0.66
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.78	0.66
35:DA:545:C:H3'	35:DA:547:A:H5''	1.78	0.66
57:DY:62:GLU:CG	57:DY:63:LYS:H	2.09	0.66
26:D1:86:SER:HB2	26:D1:90:ILE:HG12	1.78	0.66
42:DH:137:ASP:HB3	42:DH:140:LYS:HB2	1.77	0.66
39:DE:11:MET:HB3	39:DE:24:THR:HA	1.78	0.66
47:BO:104:ARG:HH21	52:BT:33:LYS:HE3	1.61	0.66
38:BD:24:ILE:HD13	38:BD:25:THR:N	2.10	0.66
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.24	0.66
27:B2:50:ILE:C	27:B2:52:ASP:H	1.96	0.66
35:DA:1115:G:H8	35:DA:1115:G:H5'	1.61	0.66
35:DA:1052:C:H2'	35:DA:1053:C:C6	2.31	0.66
35:DA:1516:C:H2'	35:DA:1517:G:H5'	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:295:G:H2'	35:BA:296:C:H6	1.61	0.66
42:BH:124:GLU:HB2	42:BH:132:ARG:HG3	1.78	0.66
1:CA:584:G:H2'	1:CA:585:G:H8	1.59	0.66
1:AA:188:C:H2'	1:AA:189:G:H8	1.61	0.66
35:DA:229:A:H3'	35:DA:230:U:H5'	1.77	0.66
35:DA:606:U:O2	35:DA:606:U:H2'	1.96	0.66
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.10	0.66
48:BP:13:ASN:O	48:BP:14:LYS:HB2	1.96	0.66
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.11	0.66
35:DA:1865:G:H2'	35:DA:1866:C:H5''	1.76	0.66
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.26	0.65
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.78	0.65
24:AY:9:LEU:C	24:AY:9:LEU:HD23	2.17	0.65
57:DY:81:LYS:HD3	57:DY:97:ARG:O	1.95	0.65
41:DG:48:GLU:OE1	41:DG:81:LYS:HE3	1.96	0.65
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.95	0.65
44:DK:19:PRO:CB	44:DK:34:ILE:HD12	2.23	0.65
31:B6:17:LYS:HB2	31:B6:44:ARG:HH12	1.60	0.65
35:BA:643:A:O2'	35:BA:644:A:H5'	1.96	0.65
31:D6:17:LYS:HB2	31:D6:44:ARG:HH12	1.61	0.65
35:BA:1814:G:C3'	35:BA:1815:A:H5''	2.25	0.65
35:BA:271(J):C:H2'	35:BA:271(J):C:O2	1.94	0.65
24:CY:388:THR:HG21	24:CY:399:LEU:CD1	2.25	0.65
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.11	0.65
35:BA:803:U:O2'	35:BA:804:A:H5'	1.96	0.65
54:BV:19:LYS:CE	54:BV:20:LEU:H	2.09	0.65
58:DZ:137:ILE:CG2	58:DZ:155:LEU:HD12	2.26	0.65
35:BA:2186:G:H2'	35:BA:2187:G:H5''	1.78	0.65
49:BQ:55:VAL:CG1	49:BQ:56:ARG:N	2.59	0.65
46:BN:96:GLU:H	46:BN:96:GLU:CD	2.00	0.65
25:B0:40:GLN:HE22	25:B0:43:THR:HA	1.60	0.65
51:DS:30:ARG:HD3	51:DS:97:ARG:HG2	1.78	0.65
47:DO:104:ARG:HH21	52:DT:33:LYS:HE3	1.61	0.65
37:BC:134:PRO:C	37:BC:135:ARG:HD2	2.16	0.65
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.31	0.65
35:DA:2852:G:H2'	35:DA:2853:C:H6	1.60	0.65
1:CA:630:G:C2'	1:CA:631:G:H5''	2.26	0.65
35:BA:848:G:H5'	35:BA:849:A:OP2	1.97	0.65
35:BA:759:G:H2'	35:BA:760:G:H8	1.61	0.65
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.78	0.65
1:CA:1068:G:OP2	1:CA:1094:G:H5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:101:ARG:NH1	39:BE:169:ASN:HD22	1.94	0.65
48:DP:122:PRO:HB3	48:DP:141:ALA:HB1	1.78	0.65
1:CA:943:U:H2'	1:CA:944:G:H5'	1.79	0.65
49:DQ:75:THR:HG22	49:DQ:76:LYS:N	2.11	0.65
49:DQ:76:LYS:HB3	49:DQ:91:GLU:HG3	1.78	0.65
4:AD:36:ARG:CB	4:AD:36:ARG:HH11	2.09	0.65
37:DC:4:HIS:ND1	37:DC:8:TYR:HE2	1.94	0.65
31:D6:10:LEU:H	31:D6:10:LEU:HD23	1.61	0.65
31:B6:38:LYS:HD3	35:BA:2344:U:OP1	1.96	0.65
1:CA:1321:C:H5''	1:CA:1322:C:C5'	2.26	0.65
46:DN:43:THR:O	46:DN:46:VAL:HG12	1.94	0.65
35:DA:1012:U:O4	46:DN:28:THR:HG21	1.96	0.65
35:BA:545:C:H3'	35:BA:547:A:H5''	1.79	0.65
55:BW:5:ALA:O	55:BW:6:ILE:HB	1.95	0.65
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.60	0.65
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.31	0.65
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	1.96	0.65
35:DA:284:U:H2'	35:DA:285:C:H6	1.61	0.65
55:DW:68:ARG:HA	55:DW:110:LYS:HG2	1.77	0.65
3:AC:136:GLN:HG3	3:AC:139:GLN:HB3	1.78	0.65
6:AF:19:LEU:HD23	6:AF:19:LEU:O	1.96	0.65
14:CN:12:ARG:O	14:CN:14:PRO:HD3	1.96	0.65
1:AA:490:G:H2'	1:AA:491:G:H8	1.60	0.65
4:AD:36:ARG:HB3	4:AD:36:ARG:HH11	1.61	0.65
1:CA:865:A:H5'	1:CA:1078:U:O4	1.96	0.65
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.61	0.65
50:DR:18:LEU:HD21	50:DR:22:ARG:NE	2.10	0.65
24:AY:388:THR:HG21	24:AY:399:LEU:H	1.61	0.65
1:CA:1231:G:O2'	1:CA:1232:U:H5'	1.96	0.65
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.31	0.65
41:BG:34:LEU:HA	41:BG:161:THR:HA	1.78	0.65
53:DU:92:ARG:HD3	53:DU:94:ASN:HB3	1.77	0.65
53:BU:92:ARG:HD3	53:BU:94:ASN:HB3	1.78	0.65
24:AY:424:LEU:O	24:AY:427:ALA:HB3	1.95	0.65
35:BA:301:G:H1'	35:BA:302:C:C6	2.30	0.65
51:BS:104:GLY:C	51:BS:106:ARG:H	2.00	0.65
35:DA:1080:C:O2'	35:DA:1081:U:H5'	1.97	0.65
44:BK:58:THR:O	44:BK:66:THR:HG22	1.96	0.65
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.78	0.65
2:AB:54:THR:O	2:AB:58:ILE:HG13	1.96	0.65
52:DT:30:VAL:HG21	52:DT:84:GLN:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:697:U:C2'	1:CA:698:G:H5'	2.25	0.65
35:BA:796:C:H2'	35:BA:797:C:C6	2.31	0.65
24:CY:225:GLU:O	24:CY:228:MET:HB3	1.96	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:CD2	2.27	0.65
1:CA:664:G:H22	1:CA:741:G:H1	1.44	0.65
4:CD:152:SER:O	4:CD:154:ASN:N	2.29	0.65
1:CA:191:G:C4	20:CT:105:SER:HB3	2.31	0.65
36:DB:15:A:H3'	36:DB:16:G:C5'	2.25	0.65
35:BA:364:C:C2'	35:BA:365:C:H5''	2.25	0.65
26:D1:29:GLY:HA3	35:DA:2396:G:O2'	1.95	0.65
1:CA:490:G:H2'	1:CA:491:G:H8	1.61	0.65
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.60	0.65
42:BH:124:GLU:CB	42:BH:132:ARG:HG3	2.26	0.65
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.27	0.65
47:BO:107:ARG:O	47:BO:112:MET:HE1	1.97	0.65
4:CD:121:VAL:O	4:CD:134:ASP:HA	1.96	0.65
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.78	0.65
24:AY:400:GLU:O	24:AY:402:ILE:HD12	1.96	0.65
1:AA:66:G:H4'	1:AA:173:U:C5	2.32	0.65
35:BA:657:U:H2'	35:BA:658:C:C6	2.32	0.65
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.31	0.65
58:BZ:130:PRO:O	58:BZ:133:ILE:HD11	1.96	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.11	0.65
24:CY:84:THR:HG22	24:CY:84:THR:O	1.96	0.65
53:BU:61:TRP:O	53:BU:65:ILE:HG13	1.96	0.65
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.26	0.65
35:DA:2498:C:O2'	35:DA:2499:C:H5'	1.95	0.65
35:BA:637:A:H2'	48:BP:117:GLU:OE2	1.95	0.65
35:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.96	0.65
56:BX:35:THR:HB	56:BX:38:GLU:HB2	1.79	0.65
35:BA:803:U:C2'	35:BA:804:A:H5'	2.27	0.65
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.62	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD21	1.78	0.65
58:DZ:101:PRO:O	58:DZ:102:LEU:HD23	1.96	0.65
7:CG:80:VAL:HG23	7:CG:81:GLY:N	2.12	0.65
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.28	0.65
16:AP:60:LEU:HA	16:AP:64:ALA:HB3	1.78	0.65
23:CX:16:A:H2'	23:CX:17:U:C6	2.31	0.65
24:CY:448:GLN:OE1	24:CY:480:GLN:HG2	1.97	0.65
35:DA:2750:A:H2'	35:DA:2752:C:H41	1.61	0.65
43:DJ:21:UNK:CB	43:DJ:88:UNK:HA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.62	0.65
35:DA:1386:C:H2'	35:DA:1387:C:H6	1.62	0.65
35:BA:2347:C:H2'	35:BA:2348:U:C6	2.31	0.65
48:DP:6:LEU:HB3	48:DP:9:ASN:HD21	1.59	0.65
41:BG:90:LEU:HD12	41:BG:91:ARG:N	2.10	0.65
24:CY:25:LYS:HE2	24:CY:86:GLY:N	2.11	0.65
40:BF:4:VAL:HG22	40:BF:19:GLU:OE1	1.96	0.65
58:DZ:166:SER:HB2	58:DZ:168:GLU:H	1.59	0.65
31:B6:11:LEU:HD23	31:B6:51:GLU:HG3	1.77	0.65
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.62	0.65
31:D6:27:LYS:HD2	31:D6:30:THR:HB	1.78	0.65
50:DR:87:TYR:C	50:DR:89:ASP:H	1.99	0.65
36:BB:48:A:H4'	51:BS:95:HIS:CD2	2.30	0.65
2:AB:168:THR:CG2	2:AB:192:SER:HB3	2.20	0.65
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.77	0.65
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.77	0.65
44:BK:21:PRO:HG3	44:BK:25:PRO:HD3	1.78	0.65
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.79	0.65
29:D4:12:ALA:CB	29:D4:29:PRO:HA	2.26	0.65
39:BE:11:MET:CB	39:BE:24:THR:HA	2.27	0.65
24:AY:416:LYS:HD2	24:AY:417:THR:H	1.60	0.65
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.25	0.65
35:DA:2068:U:N3	35:DA:2430:A:C2	2.63	0.65
40:DF:65:TRP:CZ3	40:DF:75:HIS:HD2	2.15	0.65
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.62	0.65
24:CY:165:GLN:C	24:CY:166:LEU:HD12	2.17	0.65
48:BP:108:LYS:C	48:BP:110:TYR:H	1.98	0.65
35:DA:2396:G:O2'	35:DA:2397:G:H5'	1.96	0.65
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.32	0.65
36:BB:30:C:OP2	51:BS:32:LEU:HD11	1.97	0.65
23:AX:11:U:O2	23:AX:11:U:H2'	1.97	0.65
24:CY:312:LEU:HD22	24:CY:313:ALA:O	1.96	0.65
43:BJ:26:UNK:HA	43:BJ:84:UNK:HA	1.78	0.65
24:CY:12:LEU:O	24:CY:283:PRO:HD3	1.96	0.65
24:CY:21:ILE:HG23	24:CY:86:GLY:O	1.96	0.65
35:BA:613:G:H5'	35:BA:613:G:H8	1.60	0.65
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.26	0.65
35:DA:613:G:H8	35:DA:613:G:H5'	1.62	0.65
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.62	0.65
48:DP:41:ARG:CA	48:DP:41:ARG:HH21	2.04	0.65
44:BK:4:VAL:HG12	44:BK:5:VAL:N	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:129:ASN:HD21	4:CD:145:GLU:N	1.92	0.65
35:DA:1142(A):A:O2'	35:DA:1143:A:H2'	1.96	0.65
6:AF:68:PRO:HG2	6:AF:71:ARG:HB2	1.78	0.65
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	1.97	0.65
53:BU:107:ALA:HA	53:BU:110:VAL:HG23	1.79	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:NH1	2.10	0.65
24:CY:69:VAL:HA	24:CY:81:ILE:O	1.97	0.65
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.10	0.65
1:AA:460:G:H5'	1:AA:461:A:OP2	1.96	0.65
50:DR:72:ASP:OD1	50:DR:75:LEU:HB2	1.96	0.65
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.61	0.65
24:CY:400:GLU:O	24:CY:402:ILE:HD12	1.96	0.65
44:DK:14:ALA:HA	44:DK:41:PHE:CE2	2.31	0.65
37:BC:74:ARG:H	37:BC:112:ASP:HB2	1.60	0.65
24:AY:192:LEU:O	24:AY:192:LEU:HD13	1.96	0.65
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.61	0.65
35:BA:2497:A:OP2	35:BA:2497:A:H8	1.80	0.65
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.77	0.65
26:D1:50:ARG:HG2	26:D1:57:GLU:OE2	1.97	0.65
40:BF:154:VAL:HG13	40:BF:191:ARG:O	1.96	0.65
40:BF:198:ALA:O	40:BF:201:VAL:HG12	1.96	0.65
35:BA:2346:A:C2	35:BA:2383:G:C2	2.85	0.65
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.78	0.65
1:CA:973:G:H3'	1:CA:974:A:H5''	1.79	0.65
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.52	0.65
38:DD:267:SER:CA	38:DD:270:ILE:HD11	2.26	0.65
35:DA:195:A:H5''	35:DA:196:A:OP2	1.96	0.65
39:DE:113:PHE:CE2	39:DE:158:GLY:HA2	2.31	0.65
24:CY:5:VAL:HG13	24:CY:6:GLU:N	2.12	0.65
29:B4:56:VAL:O	29:B4:57:GLU:HB2	1.97	0.65
19:AS:64:GLU:HG2	29:B4:48:ARG:HH22	1.59	0.65
7:AG:80:VAL:HG23	7:AG:81:GLY:N	2.11	0.65
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.45	0.65
28:B3:36:VAL:O	28:B3:37:LEU:HD23	1.96	0.65
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.77	0.65
21:AU:23:PRO:C	21:AU:25:LYS:H	2.00	0.65
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.96	0.65
35:DA:20:C:O2'	35:DA:21:A:H5'	1.97	0.65
35:DA:1917:U:O2'	35:DA:1918:A:H5'	1.97	0.65
13:CM:108:ARG:HA	13:CM:108:ARG:HH11	1.60	0.65
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:21:ILE:N	24:AY:21:ILE:HD13	2.11	0.65
35:DA:83:G:N2	35:DA:102:G:H2'	2.12	0.65
35:BA:84:A:H5'	57:BY:9:LYS:HB3	1.79	0.65
35:DA:666:G:H4'	48:DP:49:ARG:HH21	1.62	0.65
31:B6:15:GLU:CD	31:B6:44:ARG:NH1	2.50	0.65
31:B6:47:THR:HG23	31:B6:48:VAL:N	2.12	0.65
31:B6:48:VAL:CG2	31:B6:49:HIS:H	2.08	0.65
35:BA:139:G:C6	35:BA:140:G:H2'	2.32	0.65
44:DK:103:GLN:O	44:DK:106:GLU:HG2	1.97	0.65
35:DA:1819:A:H4'	35:DA:1820:U:H5'	1.78	0.65
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.45	0.65
24:AY:334:THR:HG21	24:AY:370:LYS:HG2	1.79	0.65
1:CA:737:A:H2'	1:CA:738:C:C6	2.32	0.65
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.43	0.65
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.32	0.65
35:DA:1542:A:H5'	35:DA:1543:C:OP2	1.95	0.65
12:CL:28:LYS:HE2	12:CL:33:ARG:HH12	1.62	0.65
1:AA:183:G:H2'	1:AA:184:G:C8	2.31	0.65
35:DA:2196:C:O2'	35:DA:2197:U:H5'	1.97	0.65
36:BB:15:A:H3'	36:BB:16:G:C5'	2.25	0.65
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.32	0.65
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.61	0.65
36:DB:48:A:H2'	36:DB:49:C:H6	1.61	0.65
30:D5:20:ARG:HG2	30:D5:23:HIS:CD2	2.31	0.65
35:DA:2202:C:H2'	38:DD:151:LYS:NZ	2.11	0.65
1:CA:773:G:O2'	1:CA:774:G:H5'	1.97	0.65
24:AY:637:ARG:HH11	24:AY:637:ARG:HG3	1.61	0.65
35:BA:1329:U:H5'	35:BA:1330:C:H5	1.62	0.65
37:DC:48:LEU:HD12	37:DC:48:LEU:N	2.12	0.65
24:AY:21:ILE:CG2	24:AY:88:VAL:HG13	2.27	0.65
33:D8:13:ARG:HH12	48:DP:59:LEU:HG	1.60	0.65
41:DG:55:LYS:HA	41:DG:58:GLN:HG3	1.78	0.65
51:BS:89:ARG:HH11	51:BS:89:ARG:HG2	1.62	0.65
52:BT:24:PRO:HD3	52:BT:52:ILE:CD1	2.27	0.65
50:DR:45:ARG:HG3	50:DR:46:GLY:N	2.11	0.65
13:CM:90:LEU:O	13:CM:92:HIS:N	2.30	0.65
52:DT:82:LEU:HD12	52:DT:82:LEU:N	2.11	0.65
58:BZ:115:GLY:CA	58:BZ:177:PRO:HG3	2.26	0.65
52:BT:33:LYS:HE2	52:BT:43:GLN:OE1	1.97	0.65
35:BA:2462:U:H2'	35:BA:2463:C:H6	1.61	0.65
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1127:A:H2'	35:DA:1128:A:H5''	1.79	0.65
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.32	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:HH12	1.62	0.65
35:DA:936:C:H2'	35:DA:937:U:C6	2.32	0.65
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.12	0.65
1:AA:270:A:H2'	1:AA:271:C:C6	2.32	0.65
35:DA:2241:A:H2'	35:DA:2242:G:H8	1.62	0.65
38:DD:148:GLU:HB2	38:DD:151:LYS:HG3	1.79	0.65
35:BA:1345:C:O2'	35:BA:1346:G:H5'	1.97	0.65
24:CY:496:LYS:HE2	24:CY:498:ILE:HD13	1.78	0.65
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	1.96	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.62	0.65
53:BU:68:ALA:O	53:BU:71:GLN:HB3	1.96	0.65
35:DA:295:G:H2'	35:DA:296:C:H6	1.62	0.65
41:DG:40:ASN:HD22	41:DG:41:GLN:H	1.45	0.65
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.62	0.65
57:BY:88:LYS:O	57:BY:90:LEU:HD23	1.97	0.65
44:BK:19:PRO:CB	44:BK:34:ILE:HD12	2.23	0.65
35:DA:2345:G:C5'	35:DA:2346:A:H5'	2.27	0.65
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.27	0.65
1:CA:687:A:N6	1:CA:703:G:H1'	2.12	0.65
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.31	0.65
35:BA:1012:U:C5	46:BN:28:THR:HG21	2.32	0.65
39:BE:11:MET:HB3	39:BE:24:THR:HA	1.79	0.65
35:DA:796:C:H2'	35:DA:797:C:C6	2.31	0.65
35:DA:1946:U:H2'	35:DA:1947:C:H6	1.60	0.65
11:AK:33:THR:HA	11:AK:40:ILE:HG12	1.79	0.65
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.12	0.65
35:DA:2162:G:H2'	35:DA:2163:C:C6	2.32	0.65
26:D1:8:SER:HB3	26:D1:66:HIS:CD2	2.32	0.65
24:AY:530:VAL:HG22	24:AY:531:GLY:N	2.11	0.65
35:BA:564:C:O2'	35:BA:565:C:H5'	1.97	0.65
1:AA:1305:G:OP1	21:AU:2:GLY:N	2.30	0.65
35:BA:2832:U:H1'	35:BA:2834:G:N3	2.12	0.65
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.32	0.65
35:BA:1183:G:O2'	35:BA:1184:G:H5'	1.96	0.65
35:DA:422:A:H2'	35:DA:423:A:C8	2.32	0.65
1:CA:715:A:H2'	1:CA:716:A:C8	2.32	0.65
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.63	0.65
35:BA:2039:C:H2'	35:BA:2040:C:C6	2.32	0.65
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.62	0.65
35:DA:1217:C:OP2	53:DU:15:LYS:NZ	2.23	0.65
1:AA:163:C:O2'	1:AA:164:U:H5'	1.97	0.65
41:BG:82:LEU:CD1	41:BG:87:PRO:HB3	2.28	0.64
4:CD:33:MET:O	4:CD:37:PRO:HG3	1.95	0.64
39:DE:131:ALA:CB	39:DE:134:ILE:HD11	2.14	0.64
24:AY:434:GLU:OE1	24:AY:465:ARG:NH2	2.30	0.64
22:AW:66:C:H4'	31:B6:28:ARG:HH22	1.61	0.64
35:DA:2312:U:O2'	41:DG:71:THR:HG21	1.98	0.64
19:CS:58:VAL:HG23	19:CS:58:VAL:O	1.97	0.64
24:CY:227:ILE:HD12	24:CY:245:ALA:HB2	1.78	0.64
31:D6:47:THR:HG23	31:D6:48:VAL:N	2.12	0.64
5:CE:72:GLN:HE22	5:CE:144:THR:HG22	1.62	0.64
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.97	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD13	1.62	0.64
2:AB:220:ASP:O	2:AB:223:ILE:HG13	1.98	0.64
35:BA:2815:C:H2'	35:BA:2816:C:C6	2.32	0.64
35:BA:1657:C:O2'	35:BA:1658:C:H5'	1.97	0.64
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.43	0.64
35:BA:1052:C:H2'	35:BA:1053:C:C6	2.31	0.64
35:DA:1514:U:H2'	35:DA:1515:G:C8	2.32	0.64
35:BA:284:U:H2'	35:BA:285:C:H6	1.63	0.64
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.10	0.64
24:AY:628:ARG:NH1	24:AY:680:PRO:HG2	2.12	0.64
56:DX:41:ASN:C	56:DX:43:VAL:H	2.00	0.64
35:BA:1029:A:H5''	49:BQ:128:LYS:HE3	1.79	0.64
35:DA:221:A:H61	35:DA:265:A:H8	1.43	0.64
35:DA:419:C:H2'	35:DA:420:C:C6	2.32	0.64
51:BS:19:LYS:HB3	51:BS:20:ARG:HH22	1.60	0.64
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.61	0.64
24:AY:342:TYR:CE2	24:AY:396:ARG:HD2	2.31	0.64
35:DA:2347:C:H2'	35:DA:2348:U:C6	2.31	0.64
56:BX:30:VAL:HG22	56:BX:77:LYS:O	1.97	0.64
49:BQ:97:VAL:HG11	49:BQ:103:MET:CE	2.26	0.64
22:CV:59:A:H2'	22:CV:60:U:H5'	1.79	0.64
41:BG:68:PRO:CB	41:BG:90:LEU:HD11	2.26	0.64
4:CD:30:LYS:O	4:CD:32:ALA:N	2.30	0.64
22:AV:17:C:C6	22:AV:17(A):U:H5	2.15	0.64
35:DA:272(H):C:H2'	35:DA:272(I):U:C5'	2.28	0.64
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.12	0.64
33:D8:50:LEU:HD12	33:D8:51:ALA:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:50:LEU:CD1	33:D8:51:ALA:H	2.08	0.64
36:BB:48:A:H2'	36:BB:49:C:H6	1.61	0.64
36:BB:50:G:OP1	51:BS:63:THR:HG23	1.97	0.64
5:CE:78:HIS:O	5:CE:93:PRO:HD3	1.97	0.64
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	1.79	0.64
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.44	0.64
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.46	0.64
35:DA:2205:C:H5'	35:DA:2206:G:OP2	1.98	0.64
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.62	0.64
38:BD:267:SER:O	38:BD:269:PHE:N	2.29	0.64
35:DA:2762:G:H5'	35:DA:2762:G:C8	2.32	0.64
49:BQ:56:ARG:HA	49:BQ:56:ARG:HE	1.62	0.64
46:DN:67:LEU:HB3	46:DN:88:GLU:CG	2.28	0.64
52:BT:55:ASN:H	52:BT:59:THR:CG2	2.10	0.64
20:AT:43:LEU:O	20:AT:46:GLU:N	2.30	0.64
1:AA:999:C:H2'	1:AA:1000:U:C5	2.32	0.64
1:AA:1310:G:O2'	1:AA:1311:G:H5'	1.97	0.64
14:CN:16:PHE:N	14:CN:16:PHE:CD1	2.61	0.64
38:BD:39:LYS:NZ	38:BD:87:ASN:HB3	2.13	0.64
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.26	0.64
35:BA:267:C:H2'	35:BA:268:C:H6	1.63	0.64
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.78	0.64
3:AC:178:LEU:O	3:AC:180:ALA:N	2.30	0.64
55:DW:107:LEU:H	55:DW:107:LEU:HD22	1.62	0.64
49:BQ:75:THR:HG22	49:BQ:76:LYS:N	2.11	0.64
21:CU:23:PRO:C	21:CU:25:LYS:H	2.00	0.64
37:BC:176:VAL:HG21	37:BC:190:ILE:CD1	2.27	0.64
38:DD:232:PRO:HD2	38:DD:249:PRO:HA	1.80	0.64
41:DG:152:LEU:H	41:DG:152:LEU:HD23	1.63	0.64
58:DZ:70:LEU:HG	58:DZ:91:LEU:HD11	1.79	0.64
55:BW:64:MET:O	55:BW:65:LEU:HB3	1.96	0.64
4:CD:13:ARG:HA	4:CD:33:MET:CE	2.27	0.64
35:DA:2472:G:H3'	35:DA:2475:C:H42	1.63	0.64
35:BA:195:A:H5''	35:BA:196:A:OP2	1.98	0.64
35:BA:666:G:H4'	48:BP:49:ARG:HH21	1.59	0.64
35:DA:301:G:H1'	35:DA:302:C:C6	2.32	0.64
57:BY:97:ARG:HG3	57:BY:97:ARG:HH11	1.62	0.64
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.33	0.64
1:AA:1319:A:OP1	19:AS:10:PHE:CE1	2.50	0.64
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.12	0.64
31:D6:48:VAL:CG2	31:D6:49:HIS:H	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2344:U:O2'	35:DA:2345:G:H5''	1.97	0.64
50:BR:87:TYR:C	50:BR:89:ASP:H	1.99	0.64
35:BA:580:C:H2'	35:BA:581:C:C6	2.31	0.64
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.61	0.64
51:DS:97:ARG:HE	51:DS:97:ARG:C	2.01	0.64
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.26	0.64
36:BB:115:G:O4'	51:BS:47:THR:HB	1.98	0.64
12:CL:27:LEU:HD21	12:CL:64:TYR:CE1	2.32	0.64
42:BH:156:ALA:O	42:BH:158:HIS:N	2.30	0.64
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	1.97	0.64
1:CA:382:A:H2'	1:CA:383:A:H8	1.61	0.64
11:CK:48:ILE:HD13	11:CK:48:ILE:N	2.12	0.64
1:CA:1334:G:H5'	1:CA:1335:C:OP2	1.98	0.64
32:D7:46:VAL:HG12	32:D7:47:ARG:N	2.12	0.64
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.31	0.64
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.64
35:BA:83:G:N2	35:BA:102:G:H2'	2.13	0.64
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.27	0.64
48:DP:41:ARG:NH2	48:DP:41:ARG:HA	2.06	0.64
31:D6:16:CYS:SG	31:D6:48:VAL:CG2	2.85	0.64
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.97	0.64
24:AY:276:VAL:CA	24:AY:280:LEU:HD23	2.24	0.64
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.09	0.64
35:DA:2573:C:H2'	35:DA:2573:C:O2	1.96	0.64
35:DA:629:G:H5''	35:DA:650:C:O2'	1.96	0.64
53:DU:20:LEU:N	53:DU:20:LEU:HD22	2.10	0.64
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.61	0.64
34:B9:17:ILE:HG21	34:B9:19:ARG:HH21	1.61	0.64
35:BA:2205:C:H5'	35:BA:2206:G:OP2	1.97	0.64
35:DA:1012:U:C5	46:DN:28:THR:HG21	2.32	0.64
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD13	1.79	0.64
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.78	0.64
57:BY:27:VAL:HG12	57:BY:29:GLU:H	1.59	0.64
38:DD:130:ALA:C	38:DD:131:LEU:HD12	2.17	0.64
36:BB:65:C:H41	36:BB:109:C:H2'	1.61	0.64
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.98	0.64
39:DE:199:ARG:HB3	39:DE:200:GLU:OE2	1.98	0.64
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.27	0.64
37:BC:29:LEU:HD23	37:BC:29:LEU:C	2.17	0.64
24:AY:343:ASN:ND2	24:AY:345:THR:H	1.95	0.64
44:DK:78:ILE:HD11	44:DK:136:VAL:HG11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1380:G:O2'	35:BA:1381:G:H5'	1.98	0.64
35:BA:2172:U:H1'	35:BA:2173:A:OP1	1.97	0.64
42:BH:92:ILE:O	42:BH:94:TYR:N	2.28	0.64
38:DD:76:PRO:O	38:DD:98:VAL:HG23	1.97	0.64
39:DE:7:VAL:HG12	39:DE:27:LEU:HB3	1.80	0.64
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.32	0.64
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	1.79	0.64
23:CX:15:A:H5'	23:CX:16:A:OP1	1.98	0.64
49:BQ:76:LYS:HB3	49:BQ:91:GLU:HG3	1.79	0.64
1:AA:666:G:H5'	1:AA:726:C:H1'	1.79	0.64
35:DA:723:G:H2'	35:DA:724:U:C6	2.32	0.64
5:CE:20:GLN:O	5:CE:21:ALA:C	2.36	0.64
24:CY:612:THR:C	24:CY:640:ALA:HB1	2.17	0.64
1:AA:20:U:H2'	1:AA:21:G:O4'	1.97	0.64
40:DF:25:PRO:HG3	40:DF:119:ARG:HB2	1.79	0.64
29:B4:5:ILE:O	29:B4:5:ILE:HG12	1.96	0.64
35:BA:2392:A:C8	48:BP:60:MET:HB3	2.31	0.64
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.96	0.64
58:DZ:10:ARG:HB3	58:DZ:36:LYS:HB2	1.80	0.64
35:BA:272(H):C:H2'	35:BA:272(I):U:C5'	2.27	0.64
31:D6:6:ARG:HD2	31:D6:6:ARG:H	1.62	0.64
33:D8:25:MET:HG3	48:DP:64:LYS:HB2	1.79	0.64
41:DG:111:LEU:HD23	41:DG:114:ILE:HD11	1.79	0.64
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.33	0.64
48:DP:115:LEU:HD23	48:DP:115:LEU:N	2.13	0.64
35:DA:1814:G:C3'	35:DA:1815:A:H5''	2.27	0.64
47:BO:18:LYS:HB2	47:BO:45:GLU:HG2	1.80	0.64
13:AM:90:LEU:O	13:AM:92:HIS:N	2.31	0.64
5:AE:7:GLU:HG2	5:AE:112:LEU:CD2	2.28	0.64
30:D5:36:CYS:SG	30:D5:48:GLU:O	2.55	0.64
24:AY:485:GLU:HB2	24:AY:560:VAL:HG22	1.80	0.64
58:BZ:115:GLY:N	58:BZ:177:PRO:CG	2.60	0.64
35:DA:1223:G:H5'	35:DA:1224:C:OP2	1.98	0.64
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.27	0.64
11:CK:33:THR:HA	11:CK:40:ILE:HG12	1.80	0.64
9:CI:8:GLY:HA2	9:CI:79:LEU:HD12	1.78	0.64
58:BZ:41:LEU:O	58:BZ:44:PHE:N	2.30	0.64
12:CL:28:LYS:HE2	12:CL:33:ARG:NH1	2.13	0.64
1:CA:194:C:C2'	1:CA:195:A:H5''	2.27	0.64
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.13	0.64
20:CT:50:GLU:HB3	20:CT:99:LEU:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1068:G:OP2	1:AA:1094:G:H5'	1.97	0.64
35:BA:2348:U:C2'	35:BA:2349:G:H5''	2.27	0.64
24:CY:539:ILE:HA	24:CY:542:VAL:HG12	1.79	0.64
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.62	0.64
57:DY:51:VAL:C	57:DY:53:PRO:HD2	2.17	0.64
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.62	0.64
24:CY:198:GLU:HG3	24:CY:198:GLU:O	1.97	0.64
29:B4:42:PHE:N	29:B4:42:PHE:CD1	2.65	0.64
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.98	0.64
29:B4:2:LYS:HG2	36:BB:44:G:OP2	1.98	0.64
24:AY:20:HIS:HB2	24:AY:87:HIS:HD2	1.61	0.64
1:AA:980:C:C5	1:AA:981:U:C2	2.84	0.64
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.62	0.64
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.97	0.64
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.62	0.64
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.24	0.64
1:AA:1489:G:C3'	1:AA:1490:C:H5''	2.27	0.64
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.10	0.64
35:DA:1012:U:H3	46:DN:25:ARG:HE	1.46	0.64
52:BT:24:PRO:HD3	52:BT:52:ILE:HD11	1.79	0.64
36:BB:92:C:H2'	36:BB:93:G:H8	1.62	0.64
44:BK:93:ARG:HB2	58:BZ:112:ARG:NH2	2.12	0.64
35:BA:392:C:H5''	35:BA:409:C:H5''	1.80	0.64
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.98	0.64
26:D1:8:SER:HB3	26:D1:66:HIS:NE2	2.13	0.64
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.10	0.64
28:D3:15:TYR:HB3	28:D3:19:GLN:NE2	2.13	0.64
22:AV:6:G:H1	22:AV:67:C:H42	1.44	0.64
3:CC:136:GLN:HG3	3:CC:139:GLN:HB3	1.79	0.64
51:BS:59:LYS:HD2	51:BS:61:ASN:HB2	1.79	0.64
1:CA:41:G:H2'	1:CA:42:G:C8	2.33	0.64
29:D4:42:PHE:CD1	29:D4:42:PHE:N	2.66	0.64
35:BA:1362:C:O2'	35:BA:1363:C:H5'	1.98	0.64
1:AA:477:A:O2'	1:AA:479:C:H5'	1.98	0.64
4:AD:121:VAL:O	4:AD:134:ASP:HA	1.97	0.64
35:DA:272(J):C:C3'	35:DA:274:G:H5''	2.25	0.64
40:DF:4:VAL:HG22	40:DF:19:GLU:OE1	1.97	0.64
31:D6:5:VAL:CG2	35:DA:2283:C:H5'	2.22	0.64
41:DG:40:ASN:HD22	41:DG:41:GLN:N	1.94	0.64
35:DA:1902:C:H4'	38:DD:244:ARG:HB2	1.79	0.64
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:78:ILE:HA	40:DF:83:PHE:CD1	2.33	0.64
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	1.96	0.64
35:BA:2442:C:H2'	35:BA:2443:C:H6	1.63	0.64
35:DA:2186:G:C2'	35:DA:2187:G:H5''	2.27	0.64
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.25	0.64
36:DB:65:C:H41	36:DB:109:C:H2'	1.61	0.64
50:DR:117:VAL:HG12	50:DR:118:GLU:N	2.12	0.64
52:DT:132:LYS:HD3	52:DT:132:LYS:N	2.13	0.64
47:BO:104:ARG:HH21	52:BT:33:LYS:CE	2.11	0.64
58:BZ:109:ALA:C	58:BZ:111:VAL:H	1.98	0.64
47:BO:24:VAL:CG2	47:BO:30:ALA:HB3	2.27	0.64
1:AA:559:A:H4'	1:AA:560:U:C5'	2.27	0.64
35:BA:1053:C:H3'	35:BA:1054:A:H5''	1.79	0.64
35:DA:781:A:C8	38:DD:219:PRO:HG3	2.33	0.64
35:BA:1036:G:OP1	42:BH:59:ARG:HD2	1.96	0.64
44:DK:41:PHE:CE1	44:DK:45:THR:HG21	2.32	0.64
19:AS:40:ILE:HG21	19:AS:66:MET:O	1.97	0.64
35:DA:1438:U:O2'	35:DA:1439:A:H5'	1.97	0.64
35:DA:2815:C:H2'	35:DA:2816:C:C6	2.32	0.64
1:AA:72:C:H2'	1:AA:73:G:H8	1.63	0.64
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.98	0.64
24:CY:438:PHE:HD2	24:CY:438:PHE:C	2.01	0.64
41:BG:34:LEU:HB2	41:BG:99:MET:HE1	1.79	0.64
4:AD:16:GLY:HA2	4:AD:33:MET:CE	2.28	0.64
61:CY:702:FUA:C23	61:CY:702:FUA:H122	2.28	0.64
40:BF:123:LEU:HD13	40:BF:192:LEU:HD22	1.79	0.64
48:BP:6:LEU:HB3	48:BP:9:ASN:HD21	1.61	0.64
46:DN:3:THR:HG22	46:DN:4:TYR:N	2.11	0.64
35:DA:322:A:OP2	40:DF:169:ASN:HB2	1.98	0.64
57:DY:95:LYS:HD3	57:DY:100:ALA:HB1	1.79	0.64
40:DF:198:ALA:O	40:DF:201:VAL:HG12	1.97	0.64
27:D2:33:MET:SD	56:DX:5:TYR:HD2	2.21	0.64
1:AA:1320:C:OP1	19:AS:70:LYS:NZ	2.31	0.64
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.32	0.64
40:DF:16:GLY:O	40:DF:17:ARG:HG3	1.98	0.64
51:BS:66:ALA:O	51:BS:99:LYS:HA	1.98	0.64
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.97	0.64
31:D6:45:LYS:HG2	35:DA:2371:G:H4'	1.80	0.64
35:BA:814:C:H2'	35:BA:815:C:C6	2.31	0.64
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.79	0.64
38:DD:24:ILE:HD13	38:DD:25:THR:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.27	0.64
35:BA:1514:U:H2'	35:BA:1515:G:H8	1.63	0.64
38:BD:117:VAL:HG23	38:BD:129:ASN:HA	1.79	0.64
24:CY:104:ALA:O	24:CY:132:ARG:HB2	1.98	0.64
20:CT:43:LEU:HB3	20:CT:48:LYS:HB2	1.80	0.64
25:D0:26:TYR:HE2	35:DA:857:C:H1'	1.63	0.64
1:CA:60:A:H5''	1:CA:331:G:N2	2.13	0.64
35:BA:145:G:H2'	35:BA:146:G:H8	1.63	0.64
24:AY:534:ILE:HD12	24:AY:567:LEU:HD11	1.80	0.64
1:AA:346:G:OP2	52:BT:41:ARG:NH2	2.31	0.64
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.62	0.64
2:AB:140:HIS:O	2:AB:143:GLU:HB2	1.96	0.64
1:CA:188:C:H2'	1:CA:189:G:H8	1.62	0.64
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.27	0.64
1:CA:54:C:H2'	1:CA:352:C:H41	1.63	0.64
35:DA:2497:A:OP2	35:DA:2497:A:H8	1.80	0.64
27:B2:64:LEU:HD22	27:B2:64:LEU:O	1.98	0.64
12:CL:69:TYR:O	12:CL:71:PRO:HD3	1.98	0.64
16:AP:50:LYS:HG2	16:AP:51:VAL:N	2.12	0.64
40:DF:32:LEU:C	40:DF:32:LEU:HD23	2.17	0.64
41:BG:98:ARG:N	41:BG:98:ARG:HH11	1.95	0.64
24:CY:519:ARG:HD3	24:CY:676:TYR:O	1.98	0.64
24:CY:90:PHE:HE2	61:CY:702:FUA:H9	1.62	0.64
24:AY:9:LEU:CD2	24:AY:284:LEU:HB2	2.25	0.64
61:AY:702:FUA:C20	61:AY:702:FUA:H5	2.12	0.64
57:DY:74:PRO:O	57:DY:80:GLY:HA2	1.97	0.64
24:CY:137:ASN:O	24:CY:262:SER:HA	1.97	0.64
5:CE:101:ILE:HD13	5:CE:118:ILE:O	1.98	0.64
46:DN:134:ARG:O	46:DN:136:GLU:N	2.31	0.64
44:BK:6:ALA:O	44:BK:58:THR:HG23	1.97	0.64
44:BK:77:LEU:N	44:BK:77:LEU:HD23	2.11	0.64
52:DT:83:ILE:HG13	52:DT:84:GLN:H	1.62	0.64
49:BQ:56:ARG:HA	49:BQ:56:ARG:NE	2.13	0.64
52:BT:132:LYS:N	52:BT:132:LYS:HD3	2.12	0.64
35:BA:1538:G:H2'	35:BA:1539:G:H8	1.60	0.64
24:CY:226:ASN:C	24:CY:228:MET:H	2.02	0.64
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.62	0.64
35:DA:2442:C:H2'	35:DA:2443:C:H6	1.63	0.64
24:CY:289:ILE:HG22	24:CY:290:LYS:H	1.62	0.64
42:BH:137:ASP:HB3	42:BH:140:LYS:HB2	1.78	0.64
37:BC:28:ARG:NH1	37:BC:183:PRO:HB2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:176:C:H2'	1:AA:177:C:C6	2.32	0.64
35:DA:848:G:O6	35:DA:928:G:H2'	1.98	0.64
49:BQ:108:GLY:HA3	58:BZ:116:VAL:HG11	1.80	0.64
28:B3:15:TYR:HB3	28:B3:19:GLN:NE2	2.13	0.64
57:BY:51:VAL:HG12	57:BY:53:PRO:HD2	1.80	0.64
35:BA:2750:A:H2'	35:BA:2752:C:H41	1.62	0.64
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.13	0.64
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.63	0.64
1:CA:633:G:H5'	1:CA:634:C:OP2	1.98	0.64
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.79	0.64
35:DA:267:C:H2'	35:DA:268:C:H6	1.63	0.64
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.28	0.64
35:BA:1237:A:O2'	35:BA:1238:G:O4'	2.16	0.64
4:CD:36:ARG:HH11	4:CD:36:ARG:CB	2.10	0.64
35:DA:1943:U:H2'	35:DA:1943:U:O2	1.98	0.64
35:DA:1036:G:OP1	42:DH:59:ARG:HD2	1.98	0.64
42:BH:169:VAL:HG22	42:BH:170:ARG:N	2.12	0.64
41:BG:180:PHE:O	41:BG:182:LYS:N	2.31	0.64
24:CY:678:GLU:HG2	24:CY:679:VAL:H	1.62	0.64
35:DA:1656:C:H2'	35:DA:1657:C:H6	1.61	0.64
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.24	0.64
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.12	0.64
33:B8:32:LEU:HB3	33:B8:36:LYS:HZ2	1.63	0.64
58:DZ:65:GLN:HB3	58:DZ:67:LEU:CD1	2.28	0.64
40:DF:123:LEU:HD13	40:DF:192:LEU:HD22	1.78	0.64
13:CM:27:LYS:HE2	13:CM:31:LYS:CE	2.23	0.64
35:DA:965:C:H5'	35:DA:2273:A:C1'	2.23	0.64
47:DO:107:ARG:O	47:DO:112:MET:HE1	1.98	0.64
31:B6:37:ARG:HH22	35:BA:2286:A:H62	1.45	0.64
53:BU:19:LYS:HB3	53:BU:20:LEU:HD22	1.80	0.64
44:DK:112:MET:HG3	44:DK:113:PRO:HD3	1.80	0.64
26:B1:90:ILE:HG22	26:B1:94:LEU:CD1	2.28	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD22	1.63	0.64
26:B1:41:ARG:HH22	35:BA:1365:A:H5'	1.61	0.64
52:DT:1:MET:N	52:DT:7:ILE:HD11	2.13	0.64
42:BH:156:ALA:O	42:BH:158:HIS:CD2	2.50	0.64
4:AD:152:SER:O	4:AD:154:ASN:N	2.30	0.64
24:CY:117:GLN:HE22	24:CY:120:THR:HG23	1.63	0.64
35:DA:654(R):C:HO2'	35:DA:654(S):G:H8	1.45	0.64
1:AA:1132:C:O2'	1:AA:1133:G:H5'	1.97	0.64
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.80	0.64
46:BN:55:VAL:HG21	46:BN:127:ASP:N	2.13	0.64
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.80	0.64
37:DC:57:GLN:HE21	37:DC:205:ALA:HA	1.63	0.64
1:CA:718:G:C8	11:CK:116:HIS:HB3	2.33	0.64
35:BA:1386:C:H2'	35:BA:1387:C:H6	1.63	0.64
49:DQ:87:LYS:HG2	49:DQ:88:GLY:H	1.60	0.64
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	1.98	0.64
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.80	0.64
50:BR:18:LEU:HD21	50:BR:22:ARG:NE	2.12	0.64
35:DA:1245:G:H5''	40:DF:34:TRP:HZ2	1.63	0.63
22:AW:8:U:H3	22:AW:14:A:N6	1.95	0.63
53:BU:83:LEU:HD12	53:BU:83:LEU:H	1.63	0.63
27:B2:63:VAL:HA	27:B2:66:GLU:HG2	1.80	0.63
35:DA:643:A:O2'	35:DA:644:A:H5'	1.97	0.63
39:BE:117:MET:O	39:BE:117:MET:HG2	1.97	0.63
25:D0:16:SER:HB2	35:DA:2262:U:C5	2.33	0.63
35:BA:1142(A):A:O2'	35:BA:1143:A:H2'	1.98	0.63
22:CW:7:G:H3'	22:CW:8:U:C5'	2.28	0.63
41:BG:76:SER:CA	41:BG:83:ARG:HB3	2.28	0.63
35:BA:2186:G:C2'	35:BA:2187:G:H5''	2.28	0.63
49:DQ:137:TYR:OH	58:DZ:81:ARG:HD3	1.99	0.63
24:CY:512:ILE:H	24:CY:512:ILE:HD13	1.63	0.63
38:DD:147:LEU:HD13	38:DD:155:LEU:CD1	2.26	0.63
35:BA:1435:G:H5'	35:BA:1436:G:OP2	1.97	0.63
35:DA:392:C:H5''	35:DA:409:C:H5''	1.79	0.63
49:DQ:24:GLY:O	49:DQ:102:VAL:HG23	1.98	0.63
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.98	0.63
55:BW:107:LEU:H	55:BW:107:LEU:HD22	1.63	0.63
35:DA:1775:U:H2'	35:DA:1776:G:C5'	2.28	0.63
35:DA:2832:U:H1'	35:DA:2834:G:C2	2.33	0.63
51:DS:59:LYS:HD2	51:DS:61:ASN:HB2	1.80	0.63
7:CG:7:ALA:O	7:CG:8:GLU:HB2	1.98	0.63
4:CD:36:ARG:HH11	4:CD:36:ARG:HB3	1.61	0.63
35:BA:1278:A:H5''	50:BR:36:THR:HG22	1.79	0.63
1:CA:992:U:H1'	1:CA:993:G:C2	2.33	0.63
1:CA:163:C:O2'	1:CA:164:U:H5'	1.97	0.63
35:BA:35:G:O2'	35:BA:36:G:H5'	1.98	0.63
37:DC:213:VAL:HG12	37:DC:225:ILE:HD11	1.80	0.63
51:DS:64:GLU:CD	51:DS:64:GLU:H	2.02	0.63
35:BA:2639:A:H2'	35:BA:2640:G:O4'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:156:ALA:O	42:DH:158:HIS:N	2.31	0.63
4:AD:30:LYS:O	4:AD:32:ALA:N	2.31	0.63
35:DA:1747(A):G:O2'	35:DA:1748:G:H5''	1.97	0.63
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.11	0.63
38:BD:35:LYS:HG2	38:BD:63:ARG:CA	2.25	0.63
24:CY:148:LEU:HD13	24:CY:151:ARG:HH11	1.63	0.63
31:B6:19:ARG:O	31:B6:20:ASN:O	2.14	0.63
35:DA:240:G:C3'	35:DA:241:A:H5''	2.25	0.63
26:B1:82:LEU:HD23	26:B1:90:ILE:HG23	1.81	0.63
40:BF:78:ILE:HA	40:BF:83:PHE:CD1	2.32	0.63
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.16	0.63
39:BE:36:ARG:NH1	39:BE:36:ARG:HG2	2.12	0.63
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.61	0.63
35:BA:1948:G:H8	35:BA:1948:G:H5'	1.63	0.63
1:AA:737:A:H2'	1:AA:738:C:C6	2.33	0.63
35:DA:2795:G:H21	35:DA:2796:U:H5	1.47	0.63
35:DA:2018:G:H21	53:DU:34:LYS:NZ	1.96	0.63
1:AA:301:G:O2'	1:AA:302:G:H5'	1.98	0.63
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.63	0.63
24:CY:193:GLY:HA3	24:CY:266:ASN:CB	2.27	0.63
35:DA:365:C:C6	35:DA:365:C:H5'	2.33	0.63
44:DK:17:ALA:HB3	44:DK:38:VAL:HG13	1.80	0.63
1:AA:382:A:H2'	1:AA:383:A:H8	1.61	0.63
35:DA:1029:A:H5''	49:DQ:128:LYS:HE3	1.81	0.63
56:BX:41:ASN:C	56:BX:43:VAL:H	2.01	0.63
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.64	0.63
47:BO:3:GLN:HB2	47:BO:4:PRO:HD2	1.81	0.63
1:CA:477:A:O2'	1:CA:479:C:H5'	1.97	0.63
26:B1:7:ILE:HG22	26:B1:8:SER:N	2.13	0.63
2:CB:140:HIS:O	2:CB:143:GLU:HB2	1.97	0.63
1:AA:41:G:H2'	1:AA:42:G:H8	1.63	0.63
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.32	0.63
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.33	0.63
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	1.98	0.63
35:BA:1064:C:H4'	44:BK:89:HIS:HD2	1.63	0.63
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	1.97	0.63
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	1.81	0.63
41:BG:60:LEU:C	41:BG:63:ILE:HD11	2.17	0.63
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.18	0.63
53:BU:111:GLU:O	53:BU:115:ALA:HB2	1.98	0.63
35:DA:2131:G:H5'	35:DA:2133:G:H1'	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:50:LEU:HD12	33:B8:51:ALA:N	2.13	0.63
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.19	0.63
29:D4:7:PRO:CG	41:DG:61:ALA:HB1	2.29	0.63
35:BA:322:A:OP2	40:BF:169:ASN:HB2	1.98	0.63
57:BY:95:LYS:HD3	57:BY:100:ALA:HB1	1.79	0.63
31:D6:15:GLU:CD	31:D6:44:ARG:NH1	2.52	0.63
35:BA:26:G:H1'	35:BA:515:A:H61	1.64	0.63
35:DA:947:G:H2'	35:DA:948:G:H8	1.63	0.63
1:AA:129(A):G:H5''	1:AA:129(A):G:H8	1.63	0.63
26:B1:45:ASN:C	26:B1:45:ASN:ND2	2.49	0.63
44:BK:112:MET:CE	44:BK:120:LEU:HD21	2.28	0.63
46:BN:23:LEU:O	46:BN:23:LEU:HD23	1.97	0.63
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.98	0.63
19:CS:13:ASP:C	19:CS:15:LEU:H	2.01	0.63
35:BA:203:C:C3'	35:BA:204:A:H5''	2.28	0.63
50:BR:100:LEU:N	50:BR:100:LEU:HD22	2.12	0.63
38:DD:146:GLU:HG2	38:DD:152:GLY:C	2.19	0.63
27:D2:48:HIS:HD1	35:DA:95:G:HO2'	1.45	0.63
35:BA:2462:U:H2'	35:BA:2463:C:C6	2.34	0.63
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.34	0.63
42:BH:149:ARG:HA	42:BH:162:ILE:CD1	2.29	0.63
24:CY:15:ILE:O	24:CY:81:ILE:HA	1.99	0.63
35:DA:2428:G:H5'	35:DA:2429:G:OP1	1.98	0.63
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.97	0.63
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.29	0.63
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.63	0.63
35:BA:2396:G:O2'	35:BA:2397:G:H5'	1.99	0.63
40:BF:38:ARG:O	40:BF:42:ALA:HB2	1.98	0.63
24:AY:662:LYS:NZ	42:BH:175:LYS:CD	2.61	0.63
36:BB:40:U:O2	36:BB:43:C:H5''	1.99	0.63
22:AW:5:G:O2'	22:AW:6:G:H5'	1.99	0.63
58:DZ:35:ARG:HH11	58:DZ:35:ARG:HG3	1.64	0.63
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.46	0.63
57:BY:88:LYS:NZ	57:BY:93:GLY:O	2.29	0.63
24:CY:157:LEU:N	24:CY:157:LEU:HD23	2.09	0.63
37:DC:128:LEU:CD2	37:DC:132:LEU:CD1	2.75	0.63
35:BA:2345:G:C5'	35:BA:2346:A:H5'	2.28	0.63
35:DA:1059:G:H2'	35:DA:1060:U:C6	2.33	0.63
12:CL:18:VAL:O	12:CL:19:ARG:HB3	1.98	0.63
35:BA:779:U:OP1	38:BD:49:ILE:HG23	1.98	0.63
27:D2:16:LEU:CB	27:D2:20:GLU:HG2	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:13:ASP:C	19:AS:15:LEU:H	2.02	0.63
1:CA:974:A:H8	1:CA:974:A:OP1	1.82	0.63
39:DE:36:ARG:NH2	39:DE:88:GLY:H	1.97	0.63
35:DA:1061:U:O4	44:DK:52:ILE:HG21	1.99	0.63
13:CM:81:LEU:HD12	13:CM:86:CYS:SG	2.39	0.63
52:DT:30:VAL:HG21	52:DT:83:ILE:HG12	1.79	0.63
35:DA:480:A:OP2	57:DY:46:LYS:HE2	1.99	0.63
37:DC:176:VAL:HG21	37:DC:190:ILE:CD1	2.28	0.63
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.80	0.63
42:BH:153:LYS:HG3	42:BH:154:PRO:CD	2.28	0.63
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.28	0.63
35:BA:2009:G:H1'	50:BR:107:ASP:O	1.98	0.63
7:AG:27:ILE:CD1	7:AG:40:ALA:HA	2.28	0.63
53:DU:83:LEU:H	53:DU:83:LEU:HD12	1.64	0.63
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.99	0.63
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.33	0.63
27:B2:69:ARG:CG	27:B2:70:GLN:N	2.59	0.63
51:BS:98:VAL:HG12	51:BS:100:ALA:N	2.13	0.63
35:DA:2454:G:O2'	35:DA:2455:G:H5'	1.98	0.63
35:DA:1012:U:C4	46:DN:28:THR:HG21	2.33	0.63
2:AB:223:ILE:HA	2:AB:226:ARG:HB3	1.81	0.63
38:DD:161:THR:O	38:DD:196:VAL:HG23	1.98	0.63
6:CF:33:TYR:HA	6:CF:71:ARG:NH2	2.11	0.63
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.09	0.63
24:AY:553:GLY:HA2	24:AY:560:VAL:CG2	2.28	0.63
28:D3:29:ARG:NH1	28:D3:29:ARG:HB2	2.14	0.63
47:DO:24:VAL:CG2	47:DO:30:ALA:HB3	2.27	0.63
52:DT:33:LYS:HE2	52:DT:43:GLN:OE1	1.98	0.63
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.33	0.63
1:CA:666:G:H5'	1:CA:726:C:H1'	1.80	0.63
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.52	0.63
1:CA:176:C:H2'	1:CA:177:C:C6	2.33	0.63
1:CA:191:G:N3	20:CT:105:SER:HB3	2.14	0.63
37:BC:99:GLU:O	37:BC:100:ILE:HD13	1.98	0.63
1:AA:192:U:H2'	1:AA:193:C:C6	2.33	0.63
12:AL:79:GLU:HB2	24:AY:442:THR:HG21	1.79	0.63
20:CT:43:LEU:O	20:CT:46:GLU:N	2.32	0.63
35:DA:848:G:H5'	35:DA:849:A:OP2	1.98	0.63
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.63	0.63
35:DA:958:U:H5'	49:DQ:14:ARG:HH11	1.62	0.63
48:BP:80:TYR:CD1	48:BP:111:ARG:HB3	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:115:VAL:HA	37:BC:145:THR:HG22	1.80	0.63
58:BZ:153:SER:HB2	58:BZ:163:LEU:HD13	1.79	0.63
24:CY:652:MET:HA	24:CY:652:MET:CE	2.29	0.63
35:BA:2472:G:H3'	35:BA:2475:C:H42	1.64	0.63
41:DG:11:TYR:O	41:DG:15:VAL:HB	1.99	0.63
35:DA:710:G:H2'	35:DA:711:G:H8	1.63	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
40:DF:38:ARG:O	40:DF:42:ALA:HB2	1.98	0.63
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.64	0.63
37:BC:71:LYS:HG2	37:BC:72:GLN:H	1.63	0.63
35:BA:1644:C:O2	35:BA:1644:C:H2'	1.98	0.63
4:AD:8:VAL:HB	4:AD:21:LEU:HD12	1.79	0.63
24:AY:227:ILE:O	24:AY:227:ILE:HG22	1.98	0.63
24:AY:464:ASP:O	24:AY:468:ARG:HB2	1.99	0.63
35:BA:2131:G:H5'	35:BA:2133:G:H1'	1.80	0.63
31:B6:11:LEU:HD22	31:B6:12:GLU:N	2.13	0.63
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.19	0.63
35:BA:252:G:OP2	48:BP:50:ARG:NH1	2.32	0.63
24:CY:276:VAL:O	24:CY:280:LEU:HD23	1.98	0.63
48:DP:16:ARG:CD	48:DP:18:ARG:H	2.08	0.63
58:DZ:145:GLU:HG3	58:DZ:146:ILE:HG12	1.79	0.63
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.46	0.63
48:DP:146:VAL:O	48:DP:148:LEU:N	2.32	0.63
1:AA:1403:C:O2	1:AA:1403:C:H2'	1.97	0.63
3:CC:142:MET:CE	3:CC:171:GLY:HA3	2.28	0.63
1:CA:559:A:H4'	1:CA:560:U:C5'	2.29	0.63
30:B5:25:LEU:CD1	55:BW:19:LEU:HB3	2.28	0.63
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.14	0.63
35:DA:2172:U:H1'	35:DA:2173:A:OP1	1.97	0.63
35:BA:2720:U:H2'	35:BA:2721:A:C8	2.33	0.63
1:CA:1095:U:P	1:CA:1108:G:H1	2.21	0.63
35:DA:2348:U:C2'	35:DA:2349:G:H5''	2.28	0.63
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.14	0.63
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.81	0.63
35:DA:2244:U:O2	35:DA:2434:A:H2'	1.98	0.63
35:DA:1510:G:O2'	35:DA:1511:C:H5'	1.99	0.63
35:DA:790:C:H5'	35:DA:791:C:OP2	1.99	0.63
16:AP:82:GLN:O	16:AP:84:ALA:N	2.31	0.63
35:DA:311:A:H5'	35:DA:332:A:C2	2.33	0.63
6:AF:11:ASN:HB3	6:AF:14:LEU:HG	1.80	0.63
28:B3:52:HIS:CD2	28:B3:52:HIS:H	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:42:GLN:HA	20:CT:42:GLN:HE21	1.64	0.63
38:BD:76:PRO:HG2	38:BD:98:VAL:HG21	1.81	0.63
24:AY:18:ALA:O	24:AY:19:ALA:HB2	1.99	0.63
35:DA:769:G:O2'	35:DA:770:G:H5'	1.99	0.63
35:DA:84:A:H5'	57:DY:9:LYS:HB3	1.81	0.63
38:BD:35:LYS:O	38:BD:36:PRO:C	2.37	0.63
33:D8:56:GLU:HA	33:D8:59:LYS:HZ3	1.64	0.63
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.22	0.63
1:CA:1002:G:H22	1:CA:1039:C:H2'	1.64	0.63
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.07	0.63
12:AL:75:HIS:HD2	12:AL:77:LEU:HD12	1.62	0.63
35:BA:2259:G:O2'	35:BA:2260:C:H5'	1.99	0.63
27:D2:69:ARG:O	27:D2:70:GLN:HB2	1.99	0.63
35:BA:629:G:H5''	35:BA:650:C:O2'	1.98	0.63
50:DR:97:VAL:HG13	50:DR:114:VAL:HG22	1.79	0.63
9:CI:114:TYR:HE1	10:CJ:60:ARG:N	1.95	0.63
35:BA:2762:G:H5'	35:BA:2762:G:C8	2.34	0.63
35:BA:2876:G:H4'	52:BT:3:ARG:NE	2.12	0.63
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.81	0.63
1:AA:194:C:C2'	1:AA:195:A:H5''	2.29	0.63
3:AC:181:ASN:HD22	3:AC:204:LEU:HB2	1.64	0.63
39:DE:8:LYS:O	39:DE:193:GLY:N	2.32	0.63
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.29	0.63
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.29	0.63
57:DY:51:VAL:HG12	57:DY:53:PRO:HD2	1.80	0.63
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.34	0.63
35:DA:1237:A:O2'	35:DA:1238:G:O4'	2.16	0.63
35:BA:710:G:H2'	35:BA:711:G:H8	1.64	0.63
33:D8:42:ARG:O	33:D8:44:LYS:N	2.29	0.63
1:CA:370:C:O2'	1:CA:371:G:H5'	1.98	0.63
3:CC:113:ALA:HB3	3:CC:183:ASP:OD2	1.98	0.63
35:BA:491:G:H2'	35:BA:492:A:H8	1.62	0.63
35:BA:221:A:H61	35:BA:265:A:H8	1.46	0.63
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.79	0.63
35:BA:2312:U:H4'	41:BG:71:THR:OG1	1.98	0.63
1:CA:509:A:C5'	1:CA:510:A:OP2	2.34	0.63
4:CD:16:GLY:HA2	4:CD:33:MET:CE	2.28	0.63
57:BY:88:LYS:HZ3	57:BY:93:GLY:C	2.03	0.63
57:BY:96:ILE:HD12	57:BY:99:CYS:SG	2.37	0.63
31:B6:37:ARG:NH2	35:BA:2286:A:H62	1.96	0.63
35:BA:2344:U:O2'	35:BA:2345:G:H5''	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:67:ARG:HB3	51:BS:71:ARG:HH22	1.63	0.63
1:AA:1128:C:H2'	1:AA:1129:C:C5'	2.24	0.63
28:D3:17:LYS:HZ3	28:D3:20:LYS:HE3	1.60	0.63
2:AB:120:ALA:O	2:AB:121:LEU:HD23	1.99	0.63
35:DA:1141:U:H6	46:DN:63:THR:HG21	1.63	0.63
50:DR:100:LEU:HD22	50:DR:100:LEU:N	2.11	0.63
52:BT:42:ILE:O	52:BT:42:ILE:HG13	1.97	0.63
44:DK:58:THR:O	44:DK:66:THR:HG22	1.98	0.63
25:D0:42:GLY:HA3	35:DA:2331:G:O4'	1.98	0.63
24:CY:530:VAL:HG12	24:CY:533:VAL:CG2	2.29	0.63
27:B2:47:ASN:HB2	35:BA:95:G:H1'	1.80	0.63
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.31	0.63
12:AL:27:LEU:HD21	12:AL:64:TYR:CE1	2.34	0.63
47:DO:104:ARG:HH21	52:DT:33:LYS:CE	2.11	0.63
35:BA:286:C:H2'	35:BA:287:C:C6	2.34	0.63
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.13	0.63
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.98	0.63
22:AW:72:C:H2'	22:AW:73:A:C8	2.34	0.63
3:CC:110:ASN:OD1	3:CC:140:ARG:HD2	1.98	0.63
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.64	0.63
1:CA:1305:G:OP1	21:CU:2:GLY:N	2.32	0.63
35:BA:603:A:H4'	35:BA:604:G:O5'	1.98	0.63
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.29	0.63
5:AE:72:GLN:HE22	5:AE:144:THR:HG22	1.62	0.63
35:BA:2244:U:O2	35:BA:2434:A:H2'	1.98	0.63
23:CX:16:A:H2'	23:CX:17:U:H6	1.63	0.63
20:CT:93:GLU:C	20:CT:95:ALA:H	2.01	0.63
1:AA:824:C:H2'	1:AA:825:G:H8	1.64	0.63
35:BA:1835:G:H1'	35:BA:1931:U:O2	1.98	0.63
38:BD:72:LYS:HE2	38:BD:101:GLU:OE2	1.98	0.63
52:DT:35:LYS:NZ	52:DT:41:ARG:HH11	1.96	0.63
56:DX:26:TYR:HD2	56:DX:92:LEU:HD12	1.63	0.63
4:CD:108:LEU:HD21	4:CD:183:GLY:HA3	1.80	0.63
1:AA:512:U:H2'	1:AA:513:C:H6	1.64	0.63
42:DH:156:ALA:O	42:DH:158:HIS:CD2	2.52	0.63
41:BG:153:ARG:HB3	41:BG:153:ARG:NH1	2.14	0.63
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.13	0.63
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.29	0.63
35:BA:1047:G:HO2'	35:BA:1110:G:H1	1.47	0.63
35:BA:2131:G:H5'	35:BA:2133:G:C1'	2.29	0.63
58:BZ:120:ILE:O	58:BZ:120:ILE:HG22	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:97:PRO:O	48:DP:98:GLU:CB	2.46	0.63
35:DA:814:C:H2'	35:DA:815:C:H6	1.62	0.63
39:BE:69:LYS:H	39:BE:69:LYS:HE2	1.64	0.63
46:DN:57:ALA:N	46:DN:124:ALA:HA	2.14	0.63
46:DN:22:THR:HA	46:DN:61:ARG:O	1.99	0.63
19:CS:41:VAL:C	19:CS:43:GLU:H	2.02	0.63
49:BQ:45:GLN:H	49:BQ:45:GLN:CD	2.00	0.63
39:BE:24:THR:HG22	39:BE:186:GLY:CA	2.27	0.63
1:AA:1510:U:O2	1:AA:1526:G:C2	2.52	0.63
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.62	0.63
24:CY:264:LEU:HD23	24:CY:264:LEU:C	2.19	0.63
22:CW:31:G:O2'	22:CW:32:G:H5'	1.99	0.63
1:AA:191:G:N3	20:AT:105:SER:HB3	2.14	0.63
24:AY:316:ILE:HD12	24:AY:326:THR:HG22	1.80	0.63
3:CC:181:ASN:HD22	3:CC:204:LEU:HB2	1.61	0.63
54:BV:79:VAL:O	54:BV:79:VAL:HG12	1.98	0.63
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.14	0.63
35:BA:1030:G:OP2	49:BQ:128:LYS:HE2	1.98	0.63
36:DB:21:G:N3	36:DB:21:G:H2'	2.13	0.63
39:DE:8:LYS:HG2	39:DE:192:ASN:HA	1.81	0.63
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.33	0.63
39:BE:101:ARG:HH11	39:BE:169:ASN:HD22	1.44	0.63
43:BJ:26:UNK:CA	43:BJ:84:UNK:HA	2.28	0.63
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.29	0.63
1:CA:512:U:H2'	1:CA:513:C:H6	1.63	0.63
35:BA:2052:G:H4'	39:BE:143:ASN:O	1.99	0.63
38:DD:11:PRO:C	38:DD:13:ARG:H	2.02	0.63
40:BF:28:ILE:CD1	40:BF:28:ILE:H	2.12	0.62
53:BU:88:ILE:HG13	53:BU:88:ILE:O	1.98	0.62
35:BA:1747(A):G:O2'	35:BA:1748:G:H5''	1.97	0.62
35:DA:1748:G:H2'	35:DA:1749:A:O4'	1.99	0.62
38:DD:35:LYS:NZ	38:DD:36:PRO:HD3	2.02	0.62
35:DA:2131:G:H5'	35:DA:2133:G:C1'	2.29	0.62
31:B6:35:GLU:OE1	31:B6:35:GLU:HA	1.99	0.62
57:DY:97:ARG:HG3	57:DY:97:ARG:HH11	1.63	0.62
31:D6:35:GLU:HB2	31:D6:51:GLU:HB2	1.80	0.62
30:B5:40:LYS:HD3	30:B5:44:THR:HB	1.81	0.62
49:DQ:56:ARG:NE	49:DQ:56:ARG:HA	2.14	0.62
35:DA:581:C:H2'	35:DA:582:G:H8	1.63	0.62
48:DP:96:THR:O	48:DP:99:LEU:HB3	1.99	0.62
44:BK:56:GLU:O	44:BK:67:PHE:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:47:VAL:HG23	39:DE:84:PHE:O	1.99	0.62
35:BA:1012:U:H3	46:BN:25:ARG:HE	1.46	0.62
52:BT:1:MET:N	52:BT:7:ILE:HD11	2.13	0.62
46:DN:96:GLU:H	46:DN:96:GLU:CD	2.01	0.62
1:AA:579:G:C5'	1:AA:728:A:H1'	2.28	0.62
58:DZ:79:ARG:O	58:DZ:80:ARG:HB2	1.99	0.62
47:DO:69:ILE:N	47:DO:69:ILE:HD12	2.14	0.62
35:BA:1127:A:H2'	35:BA:1128:A:H5''	1.80	0.62
1:CA:1026:G:C2'	1:CA:1027:C:H5'	2.29	0.62
35:DA:1053:C:H3'	35:DA:1054:A:H5''	1.79	0.62
1:AA:384:G:H2'	1:AA:385:C:C6	2.34	0.62
22:AW:75:C:H2'	22:AW:76:C:O4'	1.99	0.62
36:BB:21:G:N3	36:BB:21:G:H2'	2.13	0.62
1:CA:160:A:H1'	1:CA:344:A:C8	2.34	0.62
41:DG:172:LEU:O	41:DG:172:LEU:HD23	1.99	0.62
35:BA:1268:A:H2'	35:BA:1269:A:O4'	1.98	0.62
45:BL:15:UNK:CB	45:BM:11:UNK:HA	23.81	0.62
1:CA:203:U:H5''	1:CA:204:U:OP1	1.98	0.62
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.14	0.62
24:CY:601:ILE:C	24:CY:602:LEU:HD23	2.20	0.62
24:AY:165:GLN:HB2	24:AY:260:LEU:CD1	2.29	0.62
24:AY:255:ILE:HG12	24:AY:256:THR:N	2.14	0.62
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.35	0.62
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.80	0.62
33:D8:47:LYS:NZ	33:D8:49:VAL:HG13	2.14	0.62
41:DG:55:LYS:HG2	41:DG:58:GLN:HE21	1.63	0.62
35:BA:1059:G:H2'	35:BA:1060:U:C6	2.34	0.62
50:DR:78:LYS:O	50:DR:83:ILE:HG12	1.99	0.62
2:CB:168:THR:CG2	2:CB:192:SER:HB3	2.23	0.62
58:DZ:180:VAL:O	58:DZ:182:LYS:N	2.32	0.62
1:CA:1452:C:H1'	1:CA:1456:G:C2	2.33	0.62
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.27	0.62
35:BA:1012:U:O4	46:BN:28:THR:HG21	1.98	0.62
35:BA:2795:G:H21	35:BA:2796:U:H5	1.46	0.62
42:BH:44:VAL:O	42:BH:50:VAL:HG13	1.99	0.62
2:CB:21:ARG:HD2	2:CB:39:ILE:CG1	2.29	0.62
1:AA:1026:G:C2'	1:AA:1027:C:H5'	2.29	0.62
24:AY:573:HIS:CD2	24:AY:576:ASP:H	2.15	0.62
35:BA:840:C:C2'	35:BA:841:A:H5''	2.28	0.62
54:DV:79:VAL:O	54:DV:79:VAL:HG12	1.99	0.62
22:CV:1:C:H2'	22:CV:2:G:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:383:A:H2'	1:CA:384:G:H5'	1.80	0.62
1:CA:673:G:H2'	1:CA:674:G:C8	2.34	0.62
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.34	0.62
1:AA:332:G:O2'	1:AA:333:G:H5'	1.99	0.62
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.30	0.62
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.34	0.62
54:BV:32:THR:HG23	54:BV:59:ALA:O	2.00	0.62
16:CP:50:LYS:HG2	16:CP:51:VAL:N	2.13	0.62
3:AC:114:PRO:HD3	3:AC:183:ASP:OD2	1.99	0.62
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.33	0.62
35:BA:11:G:H22	35:BA:2628:C:P	2.22	0.62
38:DD:28:GLU:HB2	38:DD:29:PRO:CD	2.29	0.62
38:BD:28:GLU:HB2	38:BD:29:PRO:CD	2.29	0.62
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.34	0.62
49:DQ:60:ARG:HB2	49:DQ:60:ARG:NH1	2.14	0.62
37:DC:65:LEU:HD13	37:DC:189:ASN:ND2	2.14	0.62
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.64	0.62
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.34	0.62
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.20	0.62
24:CY:90:PHE:CZ	61:CY:702:FUA:H121	2.34	0.62
31:B6:5:VAL:HG12	31:B6:6:ARG:N	2.14	0.62
33:B8:51:ALA:C	33:B8:53:PRO:HD2	2.19	0.62
24:CY:259:PHE:C	24:CY:260:LEU:HD13	2.19	0.62
51:BS:97:ARG:HE	51:BS:97:ARG:C	2.03	0.62
50:DR:97:VAL:HA	50:DR:113:LEU:O	2.00	0.62
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.47	0.62
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.17	0.62
25:D0:16:SER:OG	35:DA:2261:C:H3'	1.99	0.62
35:DA:2262:U:O2'	35:DA:2263:C:H5''	1.98	0.62
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.98	0.62
39:BE:36:ARG:NH2	39:BE:88:GLY:H	1.97	0.62
50:BR:28:LEU:HD23	50:BR:28:LEU:C	2.20	0.62
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.80	0.62
35:BA:1061:U:O4	44:BK:52:ILE:HG21	1.99	0.62
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.34	0.62
6:CF:71:ARG:HH11	6:CF:71:ARG:HG3	1.62	0.62
52:DT:106:SER:O	52:DT:107:ASP:HB3	1.97	0.62
57:BY:62:GLU:CG	57:BY:63:LYS:H	2.11	0.62
52:BT:132:LYS:CD	52:BT:132:LYS:H	2.11	0.62
58:BZ:42:VAL:HG13	58:BZ:43:GLU:N	2.14	0.62
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:79:ARG:HD2	44:BK:85:GLU:O	1.99	0.62
35:DA:1380:G:H2'	35:DA:1381:G:H8	1.64	0.62
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.99	0.62
42:BH:124:GLU:HG3	42:BH:132:ARG:HG3	1.80	0.62
35:DA:1717:G:H2'	35:DA:1718:G:H5''	1.80	0.62
24:CY:293:THR:C	24:CY:295:GLU:H	2.02	0.62
22:CW:52:C:C3'	22:CW:53:G:H5''	2.29	0.62
15:AO:83:GLU:C	15:AO:85:LEU:H	2.02	0.62
35:DA:1329:U:H5'	35:DA:1330:C:H5	1.63	0.62
1:CA:781:A:H4'	1:CA:1522:U:O2'	1.98	0.62
4:CD:173:TRP:HB3	4:CD:187:ARG:NH1	2.14	0.62
22:AW:50:G:H2'	22:AW:51:U:O4'	1.99	0.62
58:BZ:105:VAL:HG13	58:BZ:105:VAL:O	1.99	0.62
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.64	0.62
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.14	0.62
4:CD:13:ARG:HA	4:CD:33:MET:HE1	1.81	0.62
40:BF:123:LEU:CD1	40:BF:192:LEU:HD22	2.29	0.62
40:DF:53:THR:CG2	40:DF:56:GLU:HG3	2.21	0.62
31:B6:11:LEU:HG	31:B6:26:ASN:ND2	2.13	0.62
1:AA:793:U:H3'	1:AA:794:A:C5'	2.22	0.62
8:AH:104:ARG:O	8:AH:106:GLY:N	2.33	0.62
55:BW:88:ARG:HB3	55:BW:92:ARG:HB3	1.81	0.62
24:CY:242:LEU:O	24:CY:245:ALA:HB3	1.99	0.62
35:DA:2345:G:O2'	35:DA:2381:C:H2'	2.00	0.62
52:DT:38:ASN:ND2	52:DT:40:THR:H	1.98	0.62
35:BA:2262:U:O2'	35:BA:2263:C:H5''	1.99	0.62
26:B1:86:SER:HB2	26:B1:90:ILE:HD11	1.80	0.62
48:BP:97:PRO:O	48:BP:98:GLU:CB	2.46	0.62
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.34	0.62
17:AQ:66:SER:O	17:AQ:70:ARG:NH1	2.33	0.62
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.26	0.62
1:AA:692:U:OP1	11:AK:124:LYS:HE2	1.99	0.62
1:CA:692:U:OP1	11:CK:124:LYS:HE2	2.00	0.62
26:B1:57:GLU:HG2	26:B1:58:ILE:H	1.64	0.62
35:DA:1332:G:H22	35:DA:1609:A:H3'	1.64	0.62
50:BR:117:VAL:HG12	50:BR:118:GLU:N	2.13	0.62
1:CA:740:U:O2'	1:CA:741:G:H5'	1.99	0.62
24:AY:201:ILE:N	24:AY:201:ILE:HD12	2.13	0.62
58:DZ:37:VAL:HG23	58:DZ:38:TYR:N	2.13	0.62
1:CA:384:G:H2'	1:CA:385:C:C6	2.34	0.62
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:101:ARG:HH11	39:BE:169:ASN:ND2	1.98	0.62
35:DA:1917:U:C2'	35:DA:1918:A:H5'	2.28	0.62
1:AA:8:A:N6	4:AD:209:ARG:HB2	2.12	0.62
18:AR:45:SER:H	18:AR:51:LEU:HG	1.62	0.62
3:CC:11:ARG:O	3:CC:13:GLY:N	2.33	0.62
33:B8:42:ARG:O	33:B8:44:LYS:N	2.29	0.62
1:CA:955:U:O2'	1:CA:956:U:H5'	1.99	0.62
21:CU:6:ARG:HH21	21:CU:15:ARG:NH2	1.97	0.62
37:BC:73:VAL:HG11	37:BC:158:LYS:HA	1.81	0.62
36:DB:54:G:O2'	36:DB:55:U:H5'	1.99	0.62
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.34	0.62
24:AY:662:LYS:NZ	42:BH:175:LYS:CG	2.63	0.62
24:AY:165:GLN:C	24:AY:166:LEU:HD12	2.20	0.62
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.14	0.62
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	1.99	0.62
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.81	0.62
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	2.04	0.62
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.35	0.62
35:DA:1504:C:C2'	35:DA:1505:C:H5''	2.30	0.62
58:BZ:59:LEU:HD11	58:BZ:88:PHE:CD2	2.35	0.62
35:BA:581:C:H2'	35:BA:582:G:H8	1.62	0.62
2:CB:120:ALA:O	2:CB:121:LEU:HD23	2.00	0.62
39:DE:59:VAL:HG22	39:DE:62:PRO:O	1.99	0.62
35:BA:947:G:H2'	35:BA:948:G:H8	1.64	0.62
35:DA:2298:A:H62	35:DA:2318:G:H8	1.47	0.62
50:BR:97:VAL:HG13	50:BR:114:VAL:HG22	1.81	0.62
2:CB:223:ILE:HA	2:CB:226:ARG:HB3	1.81	0.62
2:CB:220:ASP:O	2:CB:223:ILE:HG13	1.99	0.62
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.13	0.62
58:DZ:153:SER:C	58:DZ:155:LEU:HD23	2.20	0.62
52:BT:10:VAL:O	52:BT:12:SER:N	2.33	0.62
1:CA:579:G:C5'	1:CA:728:A:H1'	2.28	0.62
46:DN:67:LEU:CD2	46:DN:87:LEU:HB3	2.30	0.62
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.13	0.62
38:BD:158:ALA:HB3	38:BD:161:THR:CG2	2.29	0.62
4:AD:173:TRP:HB3	4:AD:187:ARG:NH1	2.15	0.62
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.00	0.62
19:CS:9:VAL:HG23	29:D4:53:GLU:OE2	1.99	0.62
51:DS:67:ARG:HB3	51:DS:71:ARG:NH2	2.14	0.62
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.13	0.62
1:AA:662:G:H2'	1:AA:663:A:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:840:C:C2'	35:DA:841:A:H5''	2.29	0.62
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.65	0.62
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.29	0.62
35:BA:589:C:O2'	35:BA:590:A:H5'	1.99	0.62
35:DA:139(A):G:H22	56:DX:44:GLU:CD	2.03	0.62
35:BA:2428:G:H5'	35:BA:2429:G:OP1	2.00	0.62
28:D3:36:VAL:O	28:D3:37:LEU:HD23	2.00	0.62
44:BK:41:PHE:CE1	44:BK:45:THR:HG21	2.34	0.62
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.81	0.62
24:CY:541:ALA:HB2	24:CY:579:GLU:HG2	1.81	0.62
18:AR:40:LEU:O	18:AR:42:ARG:N	2.33	0.62
35:DA:310:A:OP2	57:DY:18:GLY:HA2	1.99	0.62
35:DA:2639:A:H2'	35:DA:2640:G:O4'	1.99	0.62
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.80	0.62
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.14	0.62
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.13	0.62
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	1.99	0.62
53:BU:80:ILE:O	53:BU:84:LYS:HB2	2.00	0.62
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.63	0.62
1:AA:1334:G:H5'	1:AA:1335:C:OP2	1.99	0.62
42:BH:98:LEU:HD12	42:BH:102:ALA:O	1.99	0.62
4:CD:8:VAL:HB	4:CD:21:LEU:HD12	1.82	0.62
24:CY:630:GLN:HE22	24:CY:646:PHE:HD2	1.46	0.62
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.82	0.62
23:CX:12:A:H2	23:CX:13:A:H5'	1.64	0.62
33:B8:25:MET:HG3	48:BP:64:LYS:HB2	1.82	0.62
35:DA:336:C:H4'	57:DY:7:VAL:HG21	1.80	0.62
22:AV:47:U:H3'	22:AV:48:C:H5'	1.82	0.62
24:CY:243:VAL:HG13	24:CY:279:TYR:CE1	2.35	0.62
37:DC:115:VAL:HG12	37:DC:145:THR:HG23	1.81	0.62
48:BP:41:ARG:HA	48:BP:41:ARG:NH2	2.07	0.62
35:BA:2344:U:H4'	35:BA:2345:G:OP1	1.98	0.62
51:BS:106:ARG:HB3	51:BS:106:ARG:NH1	2.13	0.62
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.08	0.62
48:DP:23:PRO:O	48:DP:33:ARG:HD2	2.00	0.62
35:DA:570:G:H2'	35:DA:2030:A:N7	2.14	0.62
48:DP:96:THR:HG22	48:DP:126:VAL:HB	1.81	0.62
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.00	0.62
26:B1:47:GLN:HG3	35:BA:2091:U:O2'	2.00	0.62
46:DN:45:ASN:H	46:DN:45:ASN:ND2	1.93	0.62
52:BT:25:GLY:HA2	52:BT:92:GLY:CA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:250:A:H4'	1:CA:251:G:O5'	1.99	0.62
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.14	0.62
6:CF:69:GLU:O	6:CF:72:VAL:HG12	2.00	0.62
41:DG:77:ILE:CG2	41:DG:80:PHE:HB2	2.29	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
28:B3:29:ARG:NH1	28:B3:29:ARG:HB2	2.14	0.62
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.14	0.62
1:CA:1148:U:O3'	9:CI:14:VAL:HG11	2.00	0.62
20:AT:43:LEU:HB3	20:AT:48:LYS:HB2	1.82	0.62
35:DA:748:G:O6	35:DA:751:A:H4'	1.98	0.62
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.65	0.62
3:CC:114:PRO:HD3	3:CC:183:ASP:OD2	1.99	0.62
3:AC:113:ALA:HB3	3:AC:183:ASP:OD2	1.98	0.62
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.00	0.62
1:AA:633:G:H5'	1:AA:634:C:OP2	1.99	0.62
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.65	0.62
1:AA:291:C:O2'	1:AA:292:G:H5'	1.99	0.62
56:BX:26:TYR:HD2	56:BX:92:LEU:HD12	1.65	0.62
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.00	0.62
20:CT:33:ILE:HD13	20:CT:63:ILE:HG12	1.81	0.62
35:DA:52:A:O2'	35:DA:53:A:H5'	1.99	0.62
38:DD:72:LYS:HE2	38:DD:101:GLU:OE2	1.99	0.62
24:CY:646:PHE:O	24:CY:647:VAL:HG13	1.99	0.62
24:AY:111:SER:O	24:AY:113:GLY:N	2.33	0.62
24:AY:17:ILE:N	24:AY:17:ILE:HD12	2.14	0.62
54:BV:47:VAL:HB	54:BV:50:PRO:O	1.99	0.62
31:B6:6:ARG:HD2	31:B6:6:ARG:H	1.64	0.62
35:BA:965:C:C4'	35:BA:2273:A:H1'	2.29	0.62
33:D8:32:LEU:HB3	33:D8:36:LYS:HZ2	1.65	0.62
30:D5:40:LYS:HE2	30:D5:46:CYS:HB3	1.81	0.62
31:B6:45:LYS:HG2	35:BA:2371:G:H4'	1.80	0.62
25:B0:27:GLU:CD	25:B0:27:GLU:N	2.41	0.62
35:DA:896:A:O4'	58:DZ:146:ILE:HD12	2.00	0.62
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.00	0.62
1:AA:250:A:H4'	1:AA:251:G:O5'	1.99	0.62
39:DE:48:GLN:HE21	39:DE:78:LEU:HD22	1.64	0.62
30:B5:56:LYS:HG3	30:B5:57:VAL:N	2.11	0.62
2:AB:80:ILE:H	2:AB:80:ILE:HD12	1.63	0.62
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.82	0.62
42:BH:30:LYS:CD	42:BH:81:GLU:HG2	2.29	0.62
52:DT:132:LYS:CD	52:DT:132:LYS:H	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:106:SER:O	52:BT:107:ASP:HB3	2.00	0.62
24:CY:512:ILE:HG22	24:CY:567:LEU:HA	1.81	0.62
24:CY:128:TYR:CE2	24:CY:130:VAL:HG23	2.33	0.62
13:CM:15:VAL:HG12	13:CM:45:VAL:CG2	2.28	0.62
1:CA:1284:C:H3'	1:CA:1285:A:C5'	2.28	0.62
3:CC:150:LYS:HB2	3:CC:169:ALA:HB2	1.80	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:H	2.12	0.62
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.46	0.62
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.34	0.62
6:CF:16:GLN:HA	6:CF:19:LEU:HB3	1.81	0.62
35:DA:272(B):G:H2'	35:DA:272(C):G:C8	2.34	0.62
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.99	0.62
2:CB:156:LYS:O	2:CB:157:ARG:HB3	1.98	0.62
51:BS:40:ILE:HG22	51:BS:41:ASP:N	2.14	0.62
1:AA:718:G:C8	11:AK:116:HIS:HB3	2.34	0.62
24:CY:688:ILE:O	24:CY:688:ILE:HG22	1.98	0.62
58:DZ:55:HIS:O	58:DZ:57:ILE:HD12	2.00	0.62
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.82	0.62
24:AY:9:LEU:C	24:AY:11:ARG:H	2.03	0.62
41:BG:77:ILE:HG21	41:BG:80:PHE:HB2	1.79	0.62
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.64	0.62
22:AV:47:U:H3'	22:AV:48:C:C5'	2.30	0.62
55:DW:88:ARG:HB3	55:DW:92:ARG:HB3	1.82	0.62
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.81	0.62
12:CL:18:VAL:HG23	12:CL:19:ARG:N	2.07	0.62
44:DK:112:MET:CE	44:DK:120:LEU:HD21	2.30	0.62
39:BE:59:VAL:HG22	39:BE:62:PRO:O	2.00	0.62
39:DE:69:LYS:H	39:DE:69:LYS:HE2	1.64	0.62
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.15	0.62
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.13	0.62
13:AM:81:LEU:HD12	13:AM:86:CYS:SG	2.39	0.62
35:BA:1946:U:H2'	35:BA:1947:C:H6	1.64	0.62
35:BA:1223:G:H5'	35:BA:1224:C:OP2	1.98	0.62
35:DA:94:C:H5'	35:DA:94(A):G:OP2	1.99	0.62
35:BA:1541:G:O2'	35:BA:1542:A:H5''	1.99	0.62
35:DA:363(D):G:O2'	35:DA:363(E):U:H5'	2.00	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:N	2.62	0.62
35:DA:2720:U:H2'	35:DA:2721:A:C8	2.34	0.62
1:CA:72:C:H2'	1:CA:73:G:H8	1.64	0.62
54:DV:32:THR:HG1	54:DV:60:GLU:HG3	1.65	0.62
45:DL:62:UNK:HA	45:DL:120:UNK:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:232:PRO:HD2	38:BD:249:PRO:HA	1.82	0.62
35:BA:1842:G:H2'	35:BA:1843:C:C6	2.34	0.62
16:CP:82:GLN:O	16:CP:84:ALA:N	2.32	0.62
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.00	0.62
24:CY:21:ILE:N	24:CY:21:ILE:HD13	2.15	0.62
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.15	0.62
24:AY:162:VAL:O	24:AY:164:MET:HG2	1.98	0.62
46:BN:39:ARG:HB2	46:BN:41:ASP:OD1	1.98	0.62
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.81	0.62
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.80	0.62
40:DF:123:LEU:CD1	40:DF:192:LEU:HD22	2.29	0.62
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.30	0.62
35:DA:965:C:C4'	35:DA:2273:A:H1'	2.30	0.62
52:BT:28:VAL:HG22	52:BT:47:GLY:N	2.14	0.62
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.11	0.62
46:BN:48:MET:N	46:BN:48:MET:HE2	2.08	0.62
40:BF:59:TYR:HE1	40:BF:85:GLY:O	1.83	0.62
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.19	0.62
35:BA:1012:U:C4	46:BN:28:THR:HG21	2.35	0.62
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.28	0.62
46:DN:23:LEU:O	46:DN:23:LEU:HD23	1.99	0.62
35:DA:2876:G:H4'	52:DT:3:ARG:NE	2.12	0.62
24:AY:416:LYS:HD3	24:AY:417:THR:N	2.15	0.62
47:DO:26:LYS:HB3	47:DO:30:ALA:HB2	1.82	0.62
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.82	0.62
38:DD:24:ILE:O	38:DD:25:THR:O	2.18	0.62
44:BK:17:ALA:HB3	44:BK:38:VAL:HG13	1.81	0.62
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.00	0.62
1:AA:383:A:H2'	1:AA:384:G:H5'	1.82	0.62
32:D7:24:THR:HG23	32:D7:27:GLY:N	2.15	0.62
1:CA:999:C:H2'	1:CA:1000:U:C5	2.34	0.62
35:BA:492:A:C2'	35:BA:493:G:H5'	2.30	0.62
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.14	0.62
1:AA:203:U:H5''	1:AA:204:U:OP1	2.00	0.62
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.00	0.62
24:AY:460:GLU:O	24:AY:463:VAL:HB	2.00	0.62
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.65	0.62
35:DA:2531:A:OP1	42:DH:177:GLY:N	2.33	0.62
35:DA:1047:G:HO2'	35:DA:1110:G:H1	1.48	0.62
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.82	0.62
1:CA:1144:G:H21	1:CA:1146:A:H62	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:39:ARG:HB2	46:DN:41:ASP:OD1	2.00	0.62
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.81	0.62
53:BU:92:ARG:NH1	54:BV:11:GLN:HG3	2.15	0.62
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.63	0.62
57:BY:23:ARG:O	57:BY:24:VAL:O	2.18	0.62
1:CA:1239:A:H62	1:CA:1299:A:N6	1.97	0.62
30:B5:40:LYS:HE2	30:B5:46:CYS:HB3	1.82	0.62
35:BA:2286:A:H4'	35:BA:2287:A:C5'	2.25	0.62
38:BD:43:ARG:HD2	38:BD:44:ASN:OD1	1.99	0.62
1:CA:687:A:H62	1:CA:703:G:H1'	1.65	0.62
47:DO:18:LYS:HB2	47:DO:45:GLU:HG2	1.82	0.62
46:BN:46:VAL:HG13	46:BN:47:ALA:N	2.08	0.62
46:BN:120:LEU:HD11	46:BN:122:VAL:HG23	1.82	0.62
48:BP:96:THR:O	48:BP:99:LEU:HB3	1.99	0.62
2:AB:31:TYR:CE1	2:AB:200:ILE:HD12	2.32	0.62
42:BH:85:LYS:O	42:BH:85:LYS:HD3	1.99	0.62
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.29	0.62
27:D2:32:LEU:O	27:D2:32:LEU:HD23	2.00	0.62
44:BK:134:MET:HG3	44:BK:136:VAL:HG12	1.82	0.62
35:BA:481:G:H2'	35:BA:507:A:N1	2.14	0.62
35:BA:781:A:C8	38:BD:219:PRO:HG3	2.35	0.62
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.99	0.62
1:CA:332:G:O2'	1:CA:333:G:H5'	1.99	0.62
14:AN:12:ARG:O	14:AN:14:PRO:HD3	1.98	0.62
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.65	0.62
27:B2:64:LEU:O	27:B2:68:ARG:HB2	1.99	0.62
50:BR:18:LEU:HD23	50:BR:18:LEU:C	2.20	0.62
1:AA:1275:A:O2'	1:AA:1276:G:H5'	1.99	0.62
20:AT:33:ILE:HD13	20:AT:63:ILE:HG12	1.82	0.62
1:CA:1279:A:H5'	1:CA:1280:A:OP1	2.00	0.62
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	2.00	0.62
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.00	0.62
33:B8:8:LYS:HE3	35:BA:245:G:O6	2.00	0.62
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.14	0.62
1:CA:101:A:O2'	1:CA:102:G:H5'	2.00	0.62
35:BA:1062:G:H21	44:BK:133:SER:HA	1.63	0.62
24:CY:84:THR:N	24:CY:85:PRO:CD	2.62	0.61
24:AY:168:ILE:HD11	24:AY:178:ILE:HD11	1.82	0.61
50:BR:99:LYS:CD	50:BR:99:LYS:H	1.89	0.61
35:BA:336:C:H4'	57:BY:7:VAL:HG21	1.81	0.61
35:BA:322:A:H3'	40:BF:169:ASN:HD21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.64	0.61
1:AA:1316:G:O2'	14:AN:18:VAL:HG11	2.00	0.61
37:DC:132:LEU:HB3	37:DC:138:LEU:N	2.15	0.61
52:DT:65:LYS:CE	52:DT:66:VAL:H	2.07	0.61
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.30	0.61
52:BT:38:ASN:ND2	52:BT:40:THR:H	1.97	0.61
33:D8:61:LEU:CD1	33:D8:62:LEU:H	2.09	0.61
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.64	0.61
48:BP:102:ARG:HB3	48:BP:102:ARG:CZ	2.30	0.61
36:BB:7:G:H5'	51:BS:29:PHE:CE1	2.34	0.61
46:DN:46:VAL:HG13	46:DN:47:ALA:N	2.08	0.61
39:DE:77:ILE:HG22	39:DE:78:LEU:CD1	2.29	0.61
56:BX:36:LYS:HB3	56:BX:56:THR:HG21	1.82	0.61
52:BT:91:ARG:O	52:BT:117:ASP:HB2	2.00	0.61
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	1.99	0.61
11:CK:59:TYR:O	11:CK:62:GLN:HB3	2.00	0.61
36:DB:68:C:H2'	36:DB:69:G:H8	1.65	0.61
35:BA:363(D):G:O2'	35:BA:363(E):U:H5'	2.00	0.61
35:BA:139(A):G:H22	56:BX:44:GLU:CD	2.02	0.61
35:DA:1775:U:C2'	35:DA:1776:G:H5'	2.30	0.61
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.00	0.61
1:AA:539:A:H2'	1:AA:540:G:C8	2.35	0.61
1:AA:1294:G:O2'	1:AA:1295:G:H5'	1.99	0.61
1:CA:1160:G:O6	1:CA:1181:G:O6	2.18	0.61
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.00	0.61
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.38	0.61
1:CA:943:U:C2'	1:CA:944:G:H5'	2.30	0.61
35:DA:1942:C:H3'	35:DA:1943:U:H5''	1.81	0.61
46:BN:14:VAL:HG11	46:BN:137:LYS:HD2	1.80	0.61
35:DA:608:A:H2'	35:DA:609:A:C8	2.35	0.61
35:BA:742:G:O2'	35:BA:743:G:H5'	1.99	0.61
15:CO:83:GLU:C	15:CO:85:LEU:H	2.03	0.61
1:CA:820:U:H4'	1:CA:821:G:OP2	1.99	0.61
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.80	0.61
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.00	0.61
24:CY:605:ILE:CD1	24:CY:677:GLN:HG2	2.29	0.61
24:AY:117:GLN:HE22	24:AY:120:THR:HG23	1.65	0.61
57:DY:8:LYS:HE2	57:DY:72:VAL:HG23	1.82	0.61
1:AA:1002:G:H22	1:AA:1039:C:H2'	1.64	0.61
51:BS:15:ARG:HB3	51:BS:18:ILE:CD1	2.28	0.61
51:BS:98:VAL:HG12	51:BS:100:ALA:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:583:G:OP2	53:DU:10:ARG:HD2	2.00	0.61
35:BA:1885:A:H8	35:BA:1885:A:H5'	1.65	0.61
35:BA:650:C:H2'	35:BA:651:G:H5''	1.82	0.61
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.12	0.61
35:DA:1815:A:OP2	35:DA:1822:G:H5''	2.00	0.61
35:BA:2712:U:HO2'	35:BA:2712(A):A:H8	0.72	0.61
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.82	0.61
24:CY:14:ASN:HB2	24:CY:102:ASP:OD1	2.00	0.61
51:DS:97:ARG:C	51:DS:97:ARG:NE	2.53	0.61
35:DA:1541:G:O2'	35:DA:1542:A:H5''	2.00	0.61
40:DF:133:ASN:H	40:DF:162:LEU:HD23	1.65	0.61
39:BE:4:ILE:HG13	39:BE:5:LEU:N	2.15	0.61
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.29	0.61
9:AI:104:ARG:C	9:AI:105:ASP:N	2.54	0.61
1:CA:161:A:H2'	1:CA:162:A:H8	1.65	0.61
24:AY:647:VAL:HG21	24:AY:652:MET:SD	2.40	0.61
24:AY:655:TYR:OH	24:AY:659:LEU:HD23	1.99	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:N	2.15	0.61
39:DE:9:VAL:CG2	39:DE:10:GLY:N	2.63	0.61
35:BA:1075:C:H5'	35:BA:1076:C:OP2	2.00	0.61
35:DA:406:G:HO2'	35:DA:407:G:H8	1.48	0.61
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.80	0.61
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.00	0.61
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.61
35:BA:52:A:O2'	35:BA:53:A:H5'	2.01	0.61
1:AA:773:G:O2'	1:AA:774:G:H5'	1.99	0.61
39:DE:101:ARG:HH11	39:DE:169:ASN:HD22	1.47	0.61
39:DE:101:ARG:NH1	39:DE:169:ASN:HD22	1.97	0.61
24:CY:580:MET:O	24:CY:584:ILE:HG12	2.00	0.61
38:DD:153:ALA:O	38:DD:154:LYS:HG3	1.99	0.61
35:DA:1921:G:O2'	35:DA:1922:G:H5'	2.00	0.61
1:CA:1119:C:O2'	1:CA:1120:G:H5'	2.00	0.61
20:AT:42:GLN:HE21	20:AT:42:GLN:HA	1.65	0.61
35:DA:1068:G:H21	35:DA:1096:A:H5'	1.64	0.61
35:DA:2531:A:OP1	42:DH:177:GLY:C	2.39	0.61
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.30	0.61
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.82	0.61
22:AW:18:U:H2'	22:AW:19:G:H5''	1.80	0.61
58:DZ:9:TYR:CE2	58:DZ:61:LEU:HD22	2.33	0.61
1:CA:1319:A:OP1	19:CS:10:PHE:CE1	2.53	0.61
35:BA:1504:C:C2'	35:BA:1505:C:H5''	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:68:PRO:HA	41:DG:92:VAL:HG11	1.82	0.61
58:BZ:167:PRO:O	58:BZ:168:GLU:HB2	2.00	0.61
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.62	0.61
24:CY:181:LEU:HD11	24:CY:242:LEU:HB3	1.81	0.61
49:DQ:63:LYS:HA	58:DZ:178:GLU:OE1	1.99	0.61
24:CY:546:ILE:CG2	24:CY:590:ILE:HG13	2.21	0.61
35:DA:2523:G:H2'	35:DA:2524:G:C5'	2.26	0.61
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.20	0.61
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.13	0.61
42:DH:65:HIS:HE1	42:DH:69:ARG:HH11	1.46	0.61
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.15	0.61
39:BE:7:VAL:HG12	39:BE:27:LEU:HB3	1.80	0.61
42:BH:44:VAL:O	42:BH:46:GLU:HG2	2.00	0.61
2:AB:32:ILE:HD11	2:AB:40:HIS:HB3	1.82	0.61
52:DT:50:ILE:N	52:DT:50:ILE:HD12	2.15	0.61
50:BR:117:VAL:CG1	50:BR:118:GLU:N	2.64	0.61
9:CI:5:TYR:CD2	9:CI:6:GLY:N	2.65	0.61
1:AA:740:U:O2'	1:AA:741:G:H5'	2.00	0.61
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.00	0.61
42:BH:19:VAL:HG12	42:BH:20:ALA:N	2.14	0.61
12:CL:28:LYS:O	12:CL:29:GLY:C	2.38	0.61
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.29	0.61
1:CA:192:U:H2'	1:CA:193:C:C6	2.35	0.61
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.00	0.61
24:CY:71:THR:HB	24:CY:78:ARG:NH1	2.15	0.61
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.63	0.61
35:BA:2200:C:H42	35:BA:2223:G:H1	1.48	0.61
24:AY:630:GLN:HE22	24:AY:646:PHE:HD2	1.48	0.61
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.30	0.61
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.15	0.61
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.35	0.61
1:AA:723:U:H5'	1:AA:724:G:OP2	2.00	0.61
57:BY:55:TYR:CD2	57:BY:55:TYR:N	2.68	0.61
57:BY:55:TYR:N	57:BY:55:TYR:HD2	1.98	0.61
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.00	0.61
1:CA:812:C:HO2'	1:CA:813:U:P	2.23	0.61
41:DG:9:ARG:HG2	41:DG:13:GLU:OE1	2.00	0.61
57:DY:55:TYR:HD2	57:DY:55:TYR:N	1.98	0.61
35:BA:1943:U:H2'	35:BA:1943:U:O2	2.00	0.61
35:DA:1649:G:O2'	35:DA:1650:G:H5'	2.00	0.61
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:311:A:H5'	35:BA:332:A:C2	2.36	0.61
37:DC:191:ARG:HH11	37:DC:191:ARG:HG3	1.64	0.61
47:BO:91:LEU:N	47:BO:91:LEU:HD22	2.15	0.61
35:DA:55:G:H2'	35:DA:56:A:H8	1.64	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.29	0.61
22:AW:37:U:H3	23:AX:13:A:N6	1.98	0.61
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.36	0.61
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.35	0.61
37:DC:115:VAL:HA	37:DC:145:THR:HG22	1.82	0.61
25:B0:16:SER:HB2	35:BA:2262:U:C5	2.34	0.61
48:DP:91:PHE:N	48:DP:91:PHE:CD1	2.69	0.61
35:BA:1142(A):A:O2'	35:BA:1143:A:H5''	2.00	0.61
52:DT:91:ARG:O	52:DT:117:ASP:HB2	2.00	0.61
30:B5:36:CYS:SG	30:B5:38:ALA:HB3	2.40	0.61
35:DA:1062:G:H21	44:DK:133:SER:HA	1.65	0.61
24:AY:337:SER:HA	24:AY:355:LEU:HD23	1.80	0.61
52:DT:42:ILE:HG13	52:DT:42:ILE:O	2.00	0.61
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.18	0.61
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.99	0.61
35:BA:480:A:OP2	57:BY:46:LYS:HE2	2.00	0.61
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.00	0.61
39:DE:4:ILE:HG13	39:DE:5:LEU:N	2.16	0.61
22:CV:21:A:N6	22:CV:46:G:H2'	2.14	0.61
35:DA:364:C:H2'	35:DA:365:C:C5'	2.30	0.61
35:DA:1516:C:H2'	35:DA:1517:G:C5'	2.30	0.61
35:DA:286:C:H2'	35:DA:287:C:C6	2.35	0.61
44:DK:134:MET:HG3	44:DK:136:VAL:HG12	1.81	0.61
35:BA:1775:U:H2'	35:BA:1776:G:C5'	2.30	0.61
24:CY:416:LYS:HG2	24:CY:417:THR:H	1.64	0.61
1:AA:59:A:N3	1:AA:59:A:H2'	2.14	0.61
52:BT:35:LYS:NZ	52:BT:41:ARG:HH11	1.98	0.61
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.26	0.61
35:DA:603:A:H4'	35:DA:604:G:O5'	1.99	0.61
57:DY:55:TYR:CD2	57:DY:55:TYR:N	2.69	0.61
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.64	0.61
11:AK:18:ARG:HH21	11:AK:37:GLY:N	1.98	0.61
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	1.81	0.61
22:AW:17:C:H5'	22:AW:62:C:OP1	2.01	0.61
24:AY:603:GLU:O	24:AY:676:TYR:HA	2.00	0.61
35:BA:1510:G:O2'	35:BA:1511:C:H5'	2.00	0.61
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1068:G:H21	35:BA:1096:A:H5'	1.65	0.61
4:AD:10:ARG:O	4:AD:13:ARG:HB2	1.99	0.61
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.83	0.61
35:BA:1748:G:H2'	35:BA:1749:A:O4'	2.00	0.61
61:AY:702:FUA:O2	61:AY:702:FUA:H211	2.00	0.61
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.14	0.61
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.00	0.61
35:BA:2345:G:O2'	35:BA:2381:C:H2'	2.00	0.61
35:DA:2286:A:H4'	35:DA:2287:A:C5'	2.26	0.61
49:DQ:56:ARG:HA	49:DQ:56:ARG:HE	1.65	0.61
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.00	0.61
47:BO:87:ILE:HD13	47:BO:87:ILE:N	2.15	0.61
56:DX:36:LYS:HB3	56:DX:56:THR:HG21	1.83	0.61
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.20	0.61
35:BA:2443:C:H2'	35:BA:2443:C:O2	2.00	0.61
50:BR:45:ARG:HG3	50:BR:46:GLY:N	2.12	0.61
19:CS:31:ILE:HG23	19:CS:49:ILE:HG23	1.83	0.61
39:BE:184:VAL:O	39:BE:186:GLY:N	2.29	0.61
38:DD:241:PRO:C	38:DD:242:ARG:HG3	2.20	0.61
24:CY:510:VAL:CG1	24:CY:567:LEU:HD13	2.30	0.61
35:DA:11:G:H2'	35:DA:12:U:C6	2.35	0.61
51:DS:98:VAL:HG12	51:DS:100:ALA:N	2.16	0.61
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.31	0.61
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.30	0.61
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.30	0.61
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.65	0.61
35:BA:570:G:H2'	35:BA:2030:A:N7	2.16	0.61
25:B0:24:LYS:O	25:B0:25:ARG:HD3	2.01	0.61
51:DS:19:LYS:O	51:DS:20:ARG:NH2	2.33	0.61
35:BA:528:A:H2	35:BA:2043:C:C4'	2.13	0.61
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.36	0.61
48:DP:80:TYR:CD1	48:DP:111:ARG:HB3	2.35	0.61
35:BA:272(B):G:H2'	35:BA:272(C):G:C8	2.34	0.61
38:BD:11:PRO:C	38:BD:13:ARG:H	2.04	0.61
52:DT:35:LYS:NZ	52:DT:41:ARG:NH1	2.47	0.61
1:CA:954:G:H2'	1:CA:955:U:C6	2.35	0.61
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.00	0.61
24:CY:355:LEU:HD12	24:CY:369:LEU:HD13	1.81	0.61
1:CA:1423:G:C5'	47:DO:49:ARG:HH22	2.14	0.61
1:CA:22:G:O2'	1:CA:23:C:H5'	2.01	0.61
35:DA:764:A:N3	38:DD:213:ARG:NH1	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.83	0.61
36:BB:54:G:O2'	36:BB:55:U:H5'	2.00	0.61
24:AY:443:HIS:CE1	24:AY:445:GLU:HB2	2.36	0.61
45:BL:100:UNK:O	45:BL:101:UNK:CB	2.49	0.61
6:AF:36:ARG:CZ	6:AF:36:ARG:HB3	2.30	0.61
35:BA:422:A:H2'	35:BA:423:A:C8	2.35	0.61
47:DO:97:ARG:HG3	47:DO:97:ARG:HH11	1.64	0.61
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.35	0.61
41:BG:98:ARG:CG	41:BG:98:ARG:HH11	2.13	0.61
1:CA:1128:C:H2'	1:CA:1129:C:C5'	2.25	0.61
33:B8:47:LYS:NZ	33:B8:49:VAL:HG13	2.15	0.61
52:DT:65:LYS:HZ1	52:DT:65:LYS:HA	1.65	0.61
31:D6:15:GLU:CG	31:D6:47:THR:HG21	2.31	0.61
50:BR:78:LYS:O	50:BR:83:ILE:HG12	2.01	0.61
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.16	0.61
48:DP:102:ARG:HB3	48:DP:102:ARG:CZ	2.30	0.61
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.81	0.61
19:AS:14:HIS:CD2	19:AS:15:LEU:HD23	2.36	0.61
47:BO:47:ILE:HG22	47:BO:48:PRO:HD2	1.82	0.61
35:DA:2175:C:H1'	37:DC:218:THR:O	1.99	0.61
39:BE:8:LYS:O	39:BE:193:GLY:N	2.31	0.61
42:DH:44:VAL:O	42:DH:46:GLU:HG2	2.01	0.61
49:DQ:43:THR:O	49:DQ:47:ILE:HG13	2.00	0.61
1:CA:301:G:O2'	1:CA:302:G:H5'	2.00	0.61
35:DA:1114:G:H2'	35:DA:1115:G:H5'	1.82	0.61
9:CI:104:ARG:C	9:CI:105:ASP:N	2.54	0.61
3:AC:150:LYS:HB2	3:AC:169:ALA:HB2	1.83	0.61
38:BD:146:GLU:HG2	38:BD:152:GLY:C	2.20	0.61
24:AY:67:ALA:HB1	24:AY:327:PHE:HZ	1.66	0.61
35:DA:1389:G:H2'	35:DA:1390:U:C6	2.36	0.61
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.53	0.61
3:AC:142:MET:CE	3:AC:171:GLY:HA3	2.30	0.61
37:DC:101:ILE:HD12	37:DC:101:ILE:H	1.65	0.61
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.35	0.61
1:AA:1348:U:H4'	9:AI:120:ARG:HG3	1.82	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:H	1.65	0.61
51:BS:19:LYS:O	51:BS:20:ARG:NH2	2.33	0.61
35:DA:759:G:H2'	35:DA:760:G:H8	1.64	0.61
1:AA:160:A:H1'	1:AA:344:A:C8	2.35	0.61
24:CY:553:GLY:N	24:CY:557:GLY:HA2	2.15	0.61
44:BK:37:PHE:O	44:BK:41:PHE:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:10:PRO:HG2	13:CM:11:ARG:H	1.65	0.61
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.81	0.61
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.64	0.61
35:BA:30:G:O2'	35:BA:31:C:H5'	2.00	0.61
58:BZ:3:TYR:CE2	58:BZ:51:ALA:HB2	2.36	0.61
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.36	0.61
37:DC:73:VAL:HG11	37:DC:158:LYS:HA	1.83	0.61
38:DD:166:GLN:HE21	38:DD:166:GLN:HA	1.66	0.61
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.01	0.61
41:BG:56:ALA:HA	41:BG:59:GLU:OE1	1.99	0.61
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.01	0.61
24:AY:84:THR:O	24:AY:85:PRO:C	2.39	0.61
46:DN:41:ASP:C	53:DU:64:ARG:HH22	2.03	0.61
35:DA:184:C:H2'	35:DA:185:U:H6	1.63	0.61
31:B6:28:ARG:CB	31:B6:28:ARG:HH11	2.13	0.61
57:DY:23:ARG:O	57:DY:24:VAL:O	2.18	0.61
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.26	0.61
35:BA:1504:C:C3'	35:BA:1505:C:H5''	2.31	0.61
31:D6:28:ARG:CB	31:D6:28:ARG:HH11	2.13	0.61
30:D5:40:LYS:HZ3	30:D5:46:CYS:H	1.47	0.61
41:BG:157:ILE:HG22	41:BG:158:ALA:N	2.14	0.61
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.13	0.61
26:B1:56:GLN:OE1	26:B1:85:LEU:HD23	2.01	0.61
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.54	0.61
22:CW:14:A:H3'	22:CW:15:G:H5''	1.83	0.61
38:BD:267:SER:HA	38:BD:270:ILE:HD11	1.83	0.61
52:BT:29:ARG:HD3	52:BT:86:ILE:HG22	1.82	0.61
6:CF:68:PRO:HG2	6:CF:71:ARG:HB2	1.82	0.61
5:AE:64:ARG:HH11	5:AE:64:ARG:CG	2.11	0.61
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.15	0.61
1:CA:1124:G:H5'	10:CJ:35:SER:HB2	1.82	0.61
37:BC:101:ILE:H	37:BC:101:ILE:HD12	1.66	0.61
4:AD:58:LEU:HD23	4:AD:58:LEU:C	2.21	0.61
24:CY:117:GLN:NE2	24:CY:120:THR:HG23	2.15	0.61
35:BA:1389:G:H2'	35:BA:1390:U:C6	2.35	0.61
36:BB:68:C:H2'	36:BB:69:G:H8	1.65	0.61
1:AA:673:G:H2'	1:AA:674:G:C8	2.35	0.61
35:BA:2454:G:O2'	35:BA:2455:G:H5'	2.01	0.61
12:CL:34:ARG:HG3	12:CL:105:TYR:CE1	2.36	0.61
1:AA:1347:G:H3'	9:AI:108:VAL:O	2.00	0.61
28:D3:4:LEU:HD11	28:D3:39:ASP:OD1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:27:VAL:HG12	49:BQ:28:ALA:N	2.16	0.61
1:AA:1160:G:O6	1:AA:1181:G:O6	2.18	0.61
24:AY:402:ILE:HD12	24:AY:402:ILE:H	1.65	0.61
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.16	0.61
1:CA:513:C:O2'	1:CA:514:C:H5'	2.01	0.61
38:DD:11:PRO:O	38:DD:13:ARG:N	2.33	0.61
17:AQ:57:VAL:HG23	17:AQ:58:GLU:N	2.16	0.61
35:DA:1416:G:HO2'	35:DA:1417:C:H5	1.48	0.61
35:BA:2839:G:H1	35:BA:2878:U:H3	1.49	0.61
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.36	0.61
35:DA:1322:A:OP1	55:DW:11:ARG:HG3	2.01	0.61
12:AL:69:TYR:O	12:AL:71:PRO:HD3	2.00	0.61
24:AY:457:LEU:O	24:AY:461:ILE:HG13	2.01	0.61
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.03	0.61
42:DH:169:VAL:HG22	42:DH:170:ARG:N	2.12	0.61
48:DP:9:ASN:H	48:DP:10:PRO:HD2	1.65	0.61
22:AW:37:U:H3	23:AX:13:A:H62	1.49	0.61
40:BF:28:ILE:O	40:BF:30:PRO:HD3	2.00	0.61
31:D6:35:GLU:HB3	31:D6:51:GLU:HB2	1.83	0.61
31:D6:54:ILE:HD13	35:DA:2420:C:H4'	1.82	0.61
35:DA:252:G:OP2	48:DP:50:ARG:NH1	2.34	0.61
30:D5:40:LYS:HD3	30:D5:44:THR:HB	1.83	0.61
53:DU:19:LYS:HB3	53:DU:20:LEU:HD22	1.82	0.61
35:BA:240:G:C3'	35:BA:241:A:H5''	2.29	0.61
29:D4:2:LYS:HG2	36:DB:44:G:OP2	2.01	0.61
51:DS:89:ARG:HH11	51:DS:89:ARG:HG2	1.66	0.61
1:AA:974:A:H8	1:AA:974:A:OP1	1.82	0.61
30:B5:48:GLU:O	30:B5:49:CYS:CB	2.49	0.61
29:D4:56:VAL:O	29:D4:57:GLU:HB2	1.99	0.61
2:CB:31:TYR:CE1	2:CB:200:ILE:HD12	2.34	0.61
49:BQ:59:ARG:HB3	58:BZ:180:VAL:CG2	2.31	0.61
24:CY:491:VAL:CG1	24:CY:492:ASP:H	2.12	0.61
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.36	0.61
42:DH:30:LYS:CD	42:DH:81:GLU:HG2	2.30	0.61
25:B0:43:THR:HG22	35:BA:2331:G:O3'	1.99	0.61
24:CY:66:THR:O	24:CY:67:ALA:HB2	2.00	0.61
24:AY:530:VAL:HG13	24:AY:531:GLY:N	2.16	0.61
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.83	0.61
57:DY:31:LEU:HB2	57:DY:32:PRO:CA	2.31	0.61
55:DW:109:GLU:CD	55:DW:109:GLU:H	2.04	0.61
27:D2:58:ALA:CB	35:DA:76:C:H4'	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:693:C:O2'	35:DA:694:U:H5'	2.01	0.61
37:BC:138:LEU:HD22	37:BC:139:PRO:HD2	1.83	0.61
35:DA:1638:C:H2'	35:DA:1639:U:O4'	2.01	0.61
42:DH:86:GLU:HA	42:DH:132:ARG:HA	1.82	0.61
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.00	0.61
35:BA:2832:U:H1'	35:BA:2834:G:C2	2.36	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
35:DA:1094:U:H2'	35:DA:1096:A:OP2	2.01	0.61
35:DA:1930:G:O2'	35:DA:1931:U:P	2.57	0.61
35:DA:1064:C:H4'	44:DK:89:HIS:HD2	1.64	0.61
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.64	0.61
1:CA:487:A:H2'	1:CA:488:C:O4'	2.01	0.61
37:BC:211:ARG:HG3	37:BC:211:ARG:HH11	1.66	0.61
4:CD:30:LYS:C	4:CD:32:ALA:N	2.48	0.61
24:AY:215:LYS:HA	24:AY:218:GLU:HB3	1.82	0.61
48:BP:9:ASN:H	48:BP:10:PRO:HD2	1.65	0.61
22:AW:60:A:H2'	22:AW:61:U:H5'	1.81	0.61
48:BP:30:THR:CG2	48:BP:31:ALA:H	2.07	0.61
31:D6:35:GLU:HA	31:D6:35:GLU:OE1	2.00	0.61
41:BG:125:PHE:HB3	41:BG:166:ASP:HB3	1.82	0.61
51:BS:67:ARG:HB3	51:BS:71:ARG:NH2	2.16	0.61
35:BA:813:U:H2'	35:BA:814:C:H6	1.66	0.61
35:DA:811:U:O2'	35:DA:812:C:H5''	2.01	0.61
48:DP:24:GLY:HA2	48:DP:33:ARG:NH1	2.16	0.61
26:B1:73:LEU:CD2	26:B1:94:LEU:HD23	2.31	0.61
35:DA:2454:G:C2'	35:DA:2455:G:H5'	2.30	0.61
46:DN:43:THR:HB	46:DN:46:VAL:HG11	1.82	0.61
46:DN:46:VAL:O	46:DN:47:ALA:HB3	2.01	0.61
44:BK:103:GLN:O	44:BK:106:GLU:HG2	2.00	0.61
12:CL:84:LEU:HD23	12:CL:101:VAL:HG21	1.82	0.61
35:BA:2298:A:H62	35:BA:2318:G:H8	1.49	0.61
24:AY:82:ILE:HD12	24:AY:101:LEU:CD2	2.31	0.61
2:CB:220:ASP:O	2:CB:223:ILE:N	2.34	0.61
36:DB:91:C:O2'	36:DB:92:C:H5'	2.01	0.61
35:DA:2186:G:C3'	35:DA:2187:G:H5''	2.31	0.61
42:BH:41:MET:HG2	42:BH:43:VAL:HG13	1.83	0.61
42:DH:44:VAL:O	42:DH:50:VAL:HG13	2.01	0.61
50:DR:117:VAL:CG1	50:DR:118:GLU:N	2.63	0.61
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.99	0.61
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.14	0.61
35:BA:1993:U:H4'	39:BE:128:SER:OG	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:60:TYR:CE1	5:AE:64:ARG:NH2	2.68	0.61
35:DA:11:G:H22	35:DA:2628:C:P	2.24	0.61
34:D9:29:ASN:O	34:D9:29:ASN:ND2	2.33	0.61
23:AX:17:U:O2'	23:AX:18:G:H5'	2.01	0.61
30:D5:27:PRO:CG	55:DW:23:LEU:HD11	2.31	0.61
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.66	0.61
35:DA:589:C:O2'	35:DA:590:A:H5'	2.01	0.61
35:BA:2151:G:O2'	35:BA:2152:G:H5'	2.01	0.61
24:CY:315:LYS:HZ3	24:CY:317:MET:HG2	1.66	0.61
22:AV:3:C:H42	22:AV:70:G:H1	1.47	0.61
22:AW:75:C:H5'	22:AW:75:C:H6	1.66	0.61
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.01	0.61
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.15	0.61
35:DA:986:C:O2'	35:DA:987:G:H5'	2.01	0.61
35:DA:2009:G:H1'	50:DR:107:ASP:O	2.00	0.61
38:DD:134:ARG:HG3	38:DD:135:PHE:CD1	2.36	0.61
35:DA:30:G:O2'	35:DA:31:C:H5'	2.01	0.61
1:AA:100:C:H2'	1:AA:101:A:C8	2.36	0.61
1:AA:101:A:O2'	1:AA:102:G:H5'	2.00	0.61
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.00	0.61
52:BT:134:GLU:O	52:BT:135:ALA:HB2	2.00	0.61
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.82	0.61
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.36	0.61
41:BG:39:ILE:CG1	41:BG:92:VAL:HG22	2.30	0.61
24:AY:238:THR:CG2	24:AY:241:GLU:H	2.14	0.61
54:BV:39:LEU:HD12	54:BV:50:PRO:O	2.01	0.61
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.36	0.61
57:DY:88:LYS:HZ3	57:DY:93:GLY:C	2.04	0.61
22:AV:46:G:O3'	22:AV:47:U:C6	2.51	0.61
30:B5:40:LYS:HZ3	30:B5:46:CYS:H	1.47	0.61
52:DT:28:VAL:HG22	52:DT:47:GLY:N	2.16	0.61
31:D6:15:GLU:CB	31:D6:47:THR:HG21	2.31	0.61
35:BA:514:A:H2'	35:BA:515:A:C8	2.36	0.61
47:BO:114:ILE:HD12	47:BO:114:ILE:N	2.14	0.61
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.07	0.61
24:CY:341:VAL:HG23	24:CY:342:TYR:N	2.15	0.61
48:BP:84:ASN:C	48:BP:86:LYS:H	2.04	0.61
26:B1:45:ASN:CB	35:BA:2230:G:H1'	2.28	0.61
44:BK:3:LYS:HD3	44:BK:29:GLN:HG2	1.82	0.61
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.36	0.61
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D0:43:THR:HG22	35:DA:2331:G:O3'	2.01	0.61
24:CY:281:PRO:HB2	24:CY:286:ILE:CD1	2.31	0.61
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.01	0.61
34:D9:1:MET:O	34:D9:34:GLN:HG2	2.01	0.61
39:BE:44:TYR:O	39:BE:45:THR:HB	1.99	0.61
36:BB:112:U:H2'	36:BB:113:G:C8	2.34	0.61
35:BA:1516:C:H2'	35:BA:1517:G:C5'	2.30	0.61
35:DA:2069:G:O2'	35:DA:2070:G:H5'	2.01	0.61
35:DA:2021:C:H4'	35:DA:2022:U:OP2	2.01	0.61
35:BA:364:C:H2'	35:BA:365:C:C5'	2.30	0.61
35:BA:2573:C:H2'	35:BA:2573:C:O2	2.00	0.61
35:BA:1775:U:C2'	35:BA:1776:G:H5'	2.31	0.61
3:AC:110:ASN:OD1	3:AC:140:ARG:HD2	2.01	0.61
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.64	0.61
24:CY:438:PHE:C	24:CY:438:PHE:CD2	2.74	0.61
35:BA:1717:G:H2'	35:BA:1718:G:H5''	1.81	0.61
35:BA:710:G:H1	35:BA:721:C:H42	1.47	0.61
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.01	0.61
37:DC:71:LYS:HG2	37:DC:72:GLN:H	1.66	0.61
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.82	0.61
1:AA:54:C:H2'	1:AA:352:C:H41	1.66	0.61
35:DA:1105:U:H2'	35:DA:1106:G:O4'	2.00	0.61
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.66	0.61
35:DA:537:C:H2'	35:DA:538:G:H8	1.65	0.61
34:D9:22:ARG:HB2	34:D9:24:TYR:HE1	1.66	0.61
1:AA:882:C:O2'	1:AA:883:C:H5'	2.00	0.61
30:B5:20:ARG:HG2	30:B5:23:HIS:CD2	2.35	0.61
24:AY:634:MET:HA	24:AY:642:VAL:O	2.01	0.61
3:AC:99:VAL:HG23	3:AC:99:VAL:O	2.01	0.61
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.01	0.61
1:CA:505:G:H2'	1:CA:506:G:H8	1.66	0.61
42:DH:153:LYS:HG3	42:DH:154:PRO:CD	2.31	0.60
35:BA:2312:U:OP1	41:BG:73:ALA:HA	2.00	0.60
4:CD:15:GLU:O	4:CD:17:VAL:HG23	2.00	0.60
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.19	0.60
24:AY:122:TRP:C	24:AY:124:GLN:H	2.03	0.60
48:BP:24:GLY:HA2	48:BP:33:ARG:NH1	2.16	0.60
57:BY:28:LYS:O	57:BY:38:ILE:HG22	2.00	0.60
40:DF:181:LEU:HB3	40:DF:205:ARG:HH11	1.65	0.60
29:D4:9:LEU:CD2	41:DG:65:GLY:HA3	2.31	0.60
35:BA:1080:C:O2'	44:BK:126:MET:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:153:MET:O	24:CY:157:LEU:HG	2.01	0.60
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.65	0.60
46:BN:128:HIS:HE1	46:BN:134:ARG:HH11	1.47	0.60
46:BN:134:ARG:O	46:BN:136:GLU:N	2.31	0.60
48:BP:146:VAL:O	48:BP:148:LEU:N	2.34	0.60
1:AA:687:A:N6	1:AA:703:G:H1'	2.14	0.60
35:DA:2891:G:H4'	35:DA:2892:A:OP1	2.01	0.60
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.53	0.60
41:DG:107:LEU:HD11	41:DG:178:PHE:HE1	1.65	0.60
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.82	0.60
36:DB:92:C:H2'	36:DB:93:G:H8	1.65	0.60
49:BQ:60:ARG:HB2	49:BQ:60:ARG:NH1	2.16	0.60
2:CB:32:ILE:HD11	2:CB:40:HIS:HB3	1.83	0.60
26:D1:80:LEU:CD2	26:D1:81:LYS:H	2.14	0.60
52:DT:10:VAL:O	52:DT:12:SER:N	2.34	0.60
42:DH:85:LYS:HD3	42:DH:85:LYS:O	2.01	0.60
40:BF:63:LYS:HG3	40:BF:76:GLY:HA2	1.83	0.60
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.00	0.60
1:CA:390:C:H2'	1:CA:391:G:H8	1.66	0.60
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.33	0.60
35:DA:2151:G:O2'	35:DA:2152:G:H5'	2.01	0.60
20:AT:50:GLU:HB3	20:AT:99:LEU:HB2	1.82	0.60
18:CR:74:ARG:HD3	18:CR:81:PHE:CD2	2.36	0.60
44:BK:78:ILE:HD11	44:BK:136:VAL:HG11	1.83	0.60
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.66	0.60
7:AG:7:ALA:O	7:AG:8:GLU:HB2	1.99	0.60
35:DA:1833:U:H2'	35:DA:1834:U:H6	1.66	0.60
35:BA:321:G:C2	35:BA:341:G:H4'	2.36	0.60
1:CA:1425:U:O2'	1:CA:1426:C:H5'	2.01	0.60
1:AA:339:C:OP2	47:BO:97:ARG:NH1	2.34	0.60
1:AA:487:A:H2'	1:AA:488:C:O4'	2.01	0.60
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.01	0.60
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.36	0.60
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.00	0.60
55:DW:95:ILE:O	55:DW:95:ILE:HG13	1.99	0.60
22:AW:15:G:H21	22:AW:22:A:H1'	1.66	0.60
61:AY:702:FUA:H12	61:AY:702:FUA:O1	2.00	0.60
57:DY:88:LYS:NZ	57:DY:93:GLY:O	2.31	0.60
40:DF:185:ASP:OD1	40:DF:188:ARG:HD3	2.01	0.60
33:D8:30:ARG:O	33:D8:31:HIS:HB3	2.02	0.60
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:78:HIS:O	5:AE:93:PRO:HD3	2.01	0.60
35:BA:2056:G:H2'	35:BA:2056:G:N3	2.14	0.60
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.00	0.60
31:B6:15:GLU:OE2	31:B6:20:ASN:ND2	2.33	0.60
3:CC:94:LEU:O	3:CC:95:THR:HG23	2.01	0.60
35:DA:779:U:OP1	38:DD:49:ILE:HG23	2.00	0.60
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.32	0.60
6:CF:38:GLU:O	6:CF:39:LYS:O	2.18	0.60
35:DA:2259:G:O2'	35:DA:2260:C:H5'	2.01	0.60
35:DA:2712:U:O2'	35:DA:2712(A):A:O5'	2.19	0.60
13:CM:90:LEU:O	13:CM:91:ARG:C	2.40	0.60
40:DF:63:LYS:HG3	40:DF:76:GLY:HA2	1.82	0.60
35:DA:622:G:O2'	35:DA:623:G:H5'	2.01	0.60
11:AK:59:TYR:O	11:AK:62:GLN:HB3	2.01	0.60
3:CC:14:ILE:O	3:CC:15:THR:HB	2.01	0.60
49:DQ:21:THR:HG23	49:DQ:101:ARG:HB2	1.82	0.60
35:DA:481:G:H2'	35:DA:507:A:N1	2.16	0.60
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.00	0.60
38:DD:76:PRO:HG2	38:DD:98:VAL:CG2	2.31	0.60
46:DN:55:VAL:HG21	46:DN:127:ASP:N	2.16	0.60
14:AN:16:PHE:N	14:AN:16:PHE:CD1	2.62	0.60
38:BD:166:GLN:CA	38:BD:166:GLN:HE21	2.13	0.60
35:BA:1125:G:H3'	35:BA:1126:A:H5''	1.83	0.60
35:DA:605:C:H2'	35:DA:606:U:H6	1.66	0.60
1:AA:165:C:O2'	1:AA:166:G:H5'	2.01	0.60
49:DQ:11:LYS:NZ	49:DQ:88:GLY:O	2.34	0.60
1:AA:41:G:H2'	1:AA:42:G:C8	2.36	0.60
35:BA:11:G:H2'	35:BA:12:U:C6	2.35	0.60
24:CY:187:THR:HG22	24:CY:197:ARG:O	2.01	0.60
52:DT:134:GLU:O	52:DT:135:ALA:HB2	1.99	0.60
38:BD:148:GLU:HB2	38:BD:151:LYS:HG3	1.83	0.60
35:BA:134:C:H2'	35:BA:135:G:H8	1.64	0.60
40:DF:28:ILE:O	40:DF:30:PRO:HD3	2.01	0.60
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.22	0.60
9:AI:3:GLN:NE2	9:AI:20:ARG:HH21	1.99	0.60
40:DF:154:VAL:HG13	40:DF:191:ARG:O	2.01	0.60
33:D8:51:ALA:C	33:D8:53:PRO:HD2	2.22	0.60
41:DG:110:ALA:CB	41:DG:140:ILE:HD13	2.32	0.60
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.31	0.60
47:DO:87:ILE:HD13	47:DO:87:ILE:N	2.16	0.60
24:CY:28:THR:O	24:CY:32:ILE:HG13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:155:LEU:HD13	2:CB:155:LEU:C	2.21	0.60
41:DG:122:PRO:HG2	41:DG:123:ASN:OD1	2.01	0.60
52:BT:30:VAL:HG21	52:BT:83:ILE:HG12	1.83	0.60
35:DA:2762:G:H8	35:DA:2762:G:H5'	1.67	0.60
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	2.13	0.60
52:DT:57:PHE:C	52:DT:58:ASN:HD22	2.04	0.60
46:BN:67:LEU:HB3	46:BN:88:GLU:HG3	1.81	0.60
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.16	0.60
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.82	0.60
35:BA:797:C:OP1	40:BF:62:ARG:HG3	2.01	0.60
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.82	0.60
35:DA:2462:U:H2'	35:DA:2463:C:H6	1.66	0.60
46:DN:65:LYS:HA	46:DN:65:LYS:HZ3	1.67	0.60
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.64	0.60
35:BA:990:A:N6	35:BA:1186:G:H1'	2.16	0.60
50:BR:12:ARG:HG3	50:BR:12:ARG:HH11	1.66	0.60
35:BA:1380:G:H2'	35:BA:1381:G:H8	1.65	0.60
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.67	0.60
42:DH:28:GLY:HA3	42:DH:79:VAL:CG2	2.31	0.60
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.02	0.60
44:BK:14:ALA:HA	44:BK:41:PHE:CZ	2.36	0.60
22:CW:68:C:H2'	22:CW:69:C:C6	2.37	0.60
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.65	0.60
35:BA:92:A:H2'	35:BA:93:G:C8	2.36	0.60
50:DR:28:LEU:HD23	50:DR:28:LEU:C	2.21	0.60
24:CY:308:PRO:O	24:CY:332:SER:HB2	2.02	0.60
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.82	0.60
1:CA:925:G:H5'	1:CA:926:G:OP1	2.01	0.60
26:D1:41:ARG:NH2	35:DA:1365:A:H5'	2.16	0.60
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.02	0.60
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	1.81	0.60
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.37	0.60
26:D1:25:LYS:HB2	35:DA:388:G:H5'	1.83	0.60
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.66	0.60
40:BF:157:VAL:HG22	40:BF:194:MET:HG2	1.83	0.60
24:AY:180:VAL:HG23	24:AY:181:LEU:N	2.17	0.60
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.82	0.60
53:BU:83:LEU:HD12	53:BU:83:LEU:N	2.16	0.60
41:DG:61:ALA:HA	41:DG:64:THR:HG22	1.83	0.60
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.84	0.60
37:DC:128:LEU:HD11	37:DC:132:LEU:HG	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:45:LYS:HE3	35:BA:2371:G:H5''	1.83	0.60
31:D6:15:GLU:OE2	31:D6:20:ASN:ND2	2.34	0.60
35:BA:2787:C:H1'	39:BE:61:ARG:CG	2.30	0.60
46:BN:22:THR:HA	46:BN:61:ARG:O	2.00	0.60
52:DT:25:GLY:HA2	52:DT:92:GLY:CA	2.32	0.60
30:B5:55:ARG:HH12	50:BR:33:ARG:HD2	1.66	0.60
19:CS:14:HIS:CD2	19:CS:15:LEU:HD23	2.33	0.60
58:DZ:158:PRO:HD2	58:DZ:161:VAL:HG21	1.82	0.60
57:DY:44:ILE:HG22	57:DY:45:VAL:N	2.16	0.60
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.17	0.60
47:BO:104:ARG:NE	52:BT:33:LYS:HE3	2.14	0.60
58:BZ:108:PRO:HG2	58:BZ:111:VAL:HG23	1.82	0.60
42:BH:156:ALA:O	42:BH:158:HIS:HD2	1.84	0.60
35:DA:892:G:H2'	35:DA:893:C:C6	2.36	0.60
35:DA:279:C:H3'	35:DA:280:C:H5''	1.82	0.60
24:AY:512:ILE:H	24:AY:512:ILE:CD1	2.14	0.60
35:DA:518:G:H4'	55:DW:18:ARG:NH1	2.15	0.60
1:CA:1101:A:H4'	1:CA:1102:A:C4'	2.32	0.60
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.03	0.60
39:BE:170:LEU:HD12	39:BE:170:LEU:N	2.16	0.60
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.67	0.60
1:AA:72:C:H2'	1:AA:73:G:C8	2.37	0.60
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.36	0.60
54:DV:1:MET:HE2	54:DV:1:MET:HA	1.82	0.60
24:CY:185:ALA:HB3	24:CY:199:ILE:O	2.01	0.60
35:BA:693:C:O2'	35:BA:694:U:H5'	2.01	0.60
20:AT:93:GLU:C	20:AT:95:ALA:H	2.02	0.60
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.01	0.60
35:BA:723:G:H2'	35:BA:724:U:C6	2.36	0.60
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	2.16	0.60
35:BA:1467:C:H5	35:BA:1546:C:H2'	1.66	0.60
35:DA:1075:C:H5'	35:DA:1076:C:OP2	2.01	0.60
5:AE:20:GLN:O	5:AE:21:ALA:C	2.39	0.60
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.16	0.60
49:BQ:66:ILE:HG13	49:BQ:66:ILE:O	2.01	0.60
37:BC:213:VAL:HG12	37:BC:225:ILE:HD11	1.82	0.60
2:AB:156:LYS:O	2:AB:157:ARG:HB3	2.01	0.60
38:DD:31:LYS:NZ	38:DD:33:LEU:HB2	2.16	0.60
10:AJ:3:LYS:NZ	10:AJ:76:ASN:HA	2.16	0.60
40:BF:181:LEU:HB3	40:BF:205:ARG:HH11	1.64	0.60
53:DU:80:ILE:O	53:DU:84:LYS:HB2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:53:THR:CG2	40:BF:56:GLU:HG3	2.17	0.60
35:DA:363(A):A:H2'	35:DA:363(B):G:H8	1.67	0.60
56:BX:10:ALA:O	56:BX:28:PHE:HB2	2.00	0.60
40:DF:185:ASP:HA	40:DF:188:ARG:HG2	1.83	0.60
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.67	0.60
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.16	0.60
41:DG:112:PRO:C	41:DG:113:ARG:HA	2.21	0.60
31:B6:15:GLU:CD	31:B6:44:ARG:HH12	2.05	0.60
47:DO:47:ILE:HG22	47:DO:48:PRO:HD2	1.83	0.60
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	2.16	0.60
35:DA:2572:A:H5'	35:DA:2574:G:C4'	2.29	0.60
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.31	0.60
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.99	0.60
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.36	0.60
5:AE:15:ARG:HG3	5:AE:28:PHE:CE2	2.37	0.60
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.12	0.60
52:DT:29:ARG:HD3	52:DT:86:ILE:HG22	1.82	0.60
6:AF:33:TYR:HA	6:AF:71:ARG:NH2	2.16	0.60
35:DA:1971:A:C4	38:DD:241:PRO:HD3	2.37	0.60
24:CY:489:LYS:CG	24:CY:598:ASP:HB2	2.31	0.60
35:BA:848:G:O6	35:BA:928:G:H2'	2.01	0.60
35:BA:1682:G:H2'	35:BA:1683:C:H6	1.64	0.60
38:BD:155:LEU:N	38:BD:155:LEU:HD12	2.16	0.60
35:BA:481:G:OP2	57:BY:47:LYS:HD3	2.01	0.60
44:DK:79:ARG:HD2	44:DK:85:GLU:O	2.00	0.60
35:BA:175:G:O2'	35:BA:176:G:H5'	2.02	0.60
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.31	0.60
3:CC:133:ALA:O	3:CC:137:ALA:HB2	2.02	0.60
12:CL:117:ARG:NH2	12:CL:124:LYS:HB2	2.17	0.60
24:CY:415:PRO:HA	24:CY:474:ALA:CB	2.32	0.60
1:CA:1348:U:H2'	1:CA:1349:A:H8	1.67	0.60
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.36	0.60
35:BA:1094:U:H2'	35:BA:1096:A:OP2	2.00	0.60
6:CF:42:GLU:O	6:CF:44:GLY:N	2.34	0.60
58:DZ:150:LEU:HD23	58:DZ:150:LEU:N	2.15	0.60
41:DG:120:LEU:HD12	41:DG:180:PHE:HE2	1.66	0.60
58:BZ:63:ASP:HB2	58:BZ:65:GLN:HE21	1.66	0.60
37:BC:65:LEU:HD13	37:BC:189:ASN:ND2	2.16	0.60
35:DA:1168:G:H2'	35:DA:1169:G:C8	2.37	0.60
1:AA:201:C:H2'	1:AA:202:U:H5''	1.83	0.60
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:510:C:H3'	35:BA:510:C:OP1	2.01	0.60
52:BT:98:LYS:HB3	52:BT:100:TYR:HE1	1.66	0.60
1:AA:22:G:O2'	1:AA:23:C:H5'	2.01	0.60
41:BG:99:MET:O	41:BG:102:PHE:HB3	2.00	0.60
41:BG:34:LEU:HB2	41:BG:99:MET:CE	2.31	0.60
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.23	0.60
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.17	0.60
58:BZ:69:THR:HG22	58:BZ:90:VAL:CA	2.23	0.60
31:D6:30:THR:HG22	31:D6:32:ASN:ND2	2.16	0.60
52:BT:65:LYS:CE	52:BT:66:VAL:H	2.05	0.60
35:DA:1504:C:C3'	35:DA:1505:C:H5''	2.32	0.60
35:DA:26:G:H1'	35:DA:515:A:H61	1.65	0.60
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.65	0.60
26:B1:90:ILE:O	26:B1:94:LEU:HD12	2.01	0.60
48:BP:96:THR:HG22	48:BP:126:VAL:HB	1.84	0.60
41:DG:94:LEU:HD22	41:DG:98:ARG:HB3	1.83	0.60
10:AJ:55:LYS:N	10:AJ:55:LYS:CE	2.62	0.60
50:BR:28:LEU:CD2	50:BR:29:LEU:HD12	2.31	0.60
49:BQ:2:LEU:HG	49:BQ:69:PHE:HE1	1.66	0.60
35:BA:2186:G:C3'	35:BA:2187:G:H5''	2.31	0.60
49:BQ:52:VAL:O	49:BQ:55:VAL:HG12	2.01	0.60
26:D1:86:SER:HA	26:D1:89:GLU:OE2	2.01	0.60
35:DA:1677:A:H2'	35:DA:1678:G:C8	2.37	0.60
13:CM:68:GLY:H	13:CM:71:ARG:CB	2.14	0.60
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	2.14	0.60
30:D5:27:PRO:HG3	55:DW:23:LEU:CD1	2.30	0.60
35:BA:748:G:O6	35:BA:751:A:H4'	2.02	0.60
2:CB:233:SER:CB	2:CB:234:PRO:CD	2.80	0.60
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.83	0.60
18:CR:45:SER:H	18:CR:51:LEU:HG	1.65	0.60
35:DA:389:G:O4'	35:DA:2413:G:H4'	2.02	0.60
42:DH:124:GLU:HG3	42:DH:132:ARG:HG3	1.83	0.60
1:CA:539:A:H2'	1:CA:540:G:C8	2.36	0.60
35:DA:786:C:O2'	35:DA:787:U:H5'	2.02	0.60
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.82	0.60
35:DA:1328:G:H8	35:DA:1328:G:O5'	1.84	0.60
24:CY:439:ARG:H	24:CY:452:SER:HB3	1.67	0.60
35:DA:92:A:H2'	35:DA:93:G:C8	2.37	0.60
1:AA:45:U:H2'	1:AA:46:G:H8	1.66	0.60
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.02	0.60
1:CA:449:C:O2	16:CP:42:ARG:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1649:G:O2'	35:BA:1650:G:H5'	2.02	0.60
17:CQ:57:VAL:HG23	17:CQ:58:GLU:N	2.16	0.60
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.82	0.60
3:CC:25:GLY:C	3:CC:27:LYS:H	2.05	0.60
35:BA:214:G:H1'	35:BA:216:A:O2'	2.01	0.60
35:BA:198:C:H42	35:BA:248:G:H1	1.49	0.60
42:DH:171:LEU:CD2	42:DH:172:LYS:O	2.50	0.60
24:CY:459:LEU:HD12	24:CY:460:GLU:N	2.17	0.60
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.83	0.60
53:DU:92:ARG:NH1	54:DV:11:GLN:HG3	2.16	0.60
54:DV:39:LEU:HD12	54:DV:50:PRO:O	2.02	0.60
35:DA:212:G:H5'	35:DA:212:G:C8	2.33	0.60
16:CP:21:VAL:HG11	16:CP:59:TRP:NE1	2.17	0.60
40:DF:185:ASP:HA	40:DF:188:ARG:CG	2.31	0.60
41:DG:43:LEU:HD22	41:DG:43:LEU:N	2.17	0.60
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.31	0.60
48:BP:16:ARG:HH11	48:BP:16:ARG:HB2	1.65	0.60
18:CR:37:VAL:O	18:CR:39:VAL:N	2.33	0.60
3:AC:154:SER:O	3:AC:165:THR:HA	2.02	0.60
1:AA:1490:C:C6	1:AA:1490:C:H5'	2.37	0.60
51:DS:89:ARG:HG3	51:DS:92:TYR:CB	2.31	0.60
52:DT:90:GLN:HG2	52:DT:120:ARG:NH2	2.16	0.60
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.36	0.60
22:AW:28:U:H2'	22:AW:29:C:C6	2.36	0.60
47:BO:26:LYS:HB3	47:BO:30:ALA:HB2	1.83	0.60
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.01	0.60
35:BA:1516:C:H2'	35:BA:1517:G:H5'	1.84	0.60
1:AA:1239:A:H62	1:AA:1299:A:N6	1.99	0.60
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.34	0.60
37:BC:132:LEU:HB3	37:BC:138:LEU:N	2.17	0.60
14:CN:14:PRO:O	14:CN:15:LYS:O	2.20	0.60
13:AM:11:ARG:O	13:AM:13:LYS:N	2.35	0.60
35:BA:2552:U:O2	35:BA:2554:U:H5'	2.02	0.60
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.37	0.60
1:CA:677:U:H3	1:CA:713:G:H22	1.49	0.60
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.37	0.60
2:AB:60:ASP:O	2:AB:64:ARG:NH2	2.35	0.60
46:DN:14:VAL:HG11	46:DN:137:LYS:HD2	1.82	0.60
35:DA:1467:C:H5	35:DA:1546:C:H2'	1.65	0.60
35:DA:2299:G:O2'	35:DA:2300:G:H5'	2.02	0.60
35:BA:406:G:O2'	35:BA:407:G:H8	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:106:G:H2'	36:DB:107:G:H8	1.67	0.60
10:AJ:32:ALA:HB3	10:AJ:76:ASN:O	2.02	0.60
24:AY:215:LYS:O	24:AY:219:VAL:N	2.34	0.60
35:BA:1245:G:H5''	40:BF:34:TRP:HZ2	1.66	0.60
1:CA:1320:C:OP1	19:CS:70:LYS:NZ	2.35	0.60
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.04	0.60
36:BB:48:A:H2'	36:BB:49:C:C6	2.37	0.60
48:DP:146:VAL:HG22	48:DP:147:LEU:N	2.11	0.60
40:DF:84:VAL:O	40:DF:86:GLY:N	2.32	0.60
46:BN:57:ALA:N	46:BN:124:ALA:HA	2.16	0.60
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.31	0.60
49:BQ:56:ARG:HH21	58:BZ:180:VAL:CG2	2.12	0.60
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.31	0.60
26:B1:6:GLU:OE1	26:B1:60:PHE:HA	2.02	0.60
38:DD:145:VAL:HG22	38:DD:191:ALA:CB	2.31	0.60
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.65	0.60
2:CB:12:GLU:HA	2:CB:16:HIS:ND1	2.16	0.60
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.66	0.60
1:CA:723:U:H5'	1:CA:724:G:OP2	2.01	0.60
35:BA:296:C:O2'	35:BA:297:C:H5'	2.02	0.60
25:D0:24:LYS:O	25:D0:25:ARG:HD3	2.01	0.60
24:AY:605:ILE:HG23	24:AY:646:PHE:HB3	1.82	0.60
35:DA:144:C:H2'	35:DA:145:G:C8	2.36	0.60
24:CY:377:VAL:HG21	24:CY:380:LEU:HD13	1.83	0.60
35:BA:144:C:H2'	35:BA:145:G:C8	2.37	0.60
26:D1:60:PHE:CE1	26:D1:91:LYS:HE3	2.36	0.60
1:AA:60:A:H5''	1:AA:331:G:N2	2.16	0.60
25:B0:5:LYS:HB2	49:BQ:80:GLU:O	2.02	0.60
7:CG:27:ILE:HD11	7:CG:40:ALA:HA	1.84	0.60
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.36	0.60
35:DA:1125:G:H3'	35:DA:1126:A:H5''	1.84	0.60
54:DV:32:THR:HG23	54:DV:59:ALA:O	2.01	0.60
1:CA:22:G:O2'	1:CA:913:A:N1	2.29	0.60
28:D3:11:SER:HB3	35:DA:988:A:P	2.42	0.60
52:BT:51:ARG:HG3	52:BT:98:LYS:HE3	1.84	0.60
7:AG:64:GLN:O	7:AG:67:GLU:HB3	2.02	0.60
57:BY:105:ALA:C	57:BY:107:ASP:H	2.04	0.60
42:BH:105:LEU:CD2	42:BH:113:VAL:HB	2.32	0.60
35:BA:1105:U:H2'	35:BA:1106:G:O4'	2.01	0.60
9:CI:53:VAL:HG23	9:CI:55:ALA:HB3	1.83	0.60
35:DA:552:G:H8	35:DA:552:G:H5'	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:505:G:H2'	1:AA:506:G:H8	1.66	0.60
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.66	0.60
38:DD:23:GLU:HA	38:DD:23:GLU:OE1	2.02	0.60
24:AY:248:LYS:HG2	24:AY:248:LYS:O	2.02	0.60
52:DT:98:LYS:HB3	52:DT:100:TYR:HE1	1.67	0.60
40:DF:28:ILE:CD1	40:DF:28:ILE:H	2.15	0.60
24:CY:609:GLU:H	24:CY:670:VAL:HG22	1.67	0.60
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.01	0.60
35:DA:2472:G:H3'	35:DA:2475:C:N4	2.17	0.60
35:DA:322:A:H3'	40:DF:169:ASN:HD21	1.66	0.60
31:D6:10:LEU:H	31:D6:10:LEU:HD22	1.64	0.60
31:D6:11:LEU:HD22	31:D6:12:GLU:N	2.17	0.60
24:CY:276:VAL:HA	24:CY:280:LEU:HD23	1.82	0.60
47:DO:60:ALA:HA	47:DO:87:ILE:CD1	2.32	0.60
31:D6:48:VAL:O	31:D6:49:HIS:HB2	2.02	0.60
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.32	0.60
1:CA:129(A):G:H5''	1:CA:129(A):G:H8	1.65	0.60
44:BK:112:MET:HG3	44:BK:113:PRO:HD3	1.84	0.60
51:DS:34:HIS:NE2	51:DS:54:LEU:HB3	2.16	0.60
1:CA:1356:G:H2'	1:CA:1357:A:H8	1.66	0.60
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.84	0.60
35:BA:143(A):C:H4'	56:BX:38:GLU:OE1	2.01	0.60
27:B2:36:ARG:HA	27:B2:39:ALA:HB3	1.82	0.60
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.83	0.60
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.63	0.60
35:BA:2175:C:H1'	37:BC:218:THR:O	2.02	0.60
35:BA:259:G:H21	35:BA:621:A:H8	1.50	0.60
9:CI:82:ALA:HA	9:CI:85:LEU:HD11	1.83	0.60
12:AL:34:ARG:HG3	12:AL:105:TYR:CE1	2.35	0.60
46:DN:35:ARG:O	46:DN:36:GLY:C	2.39	0.60
1:AA:161:A:H2'	1:AA:162:A:H8	1.67	0.60
35:DA:2794:C:H42	35:DA:2801(A):A:H61	1.50	0.60
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.02	0.60
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.17	0.60
6:CF:16:GLN:H	6:CF:16:GLN:CD	2.04	0.60
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.02	0.60
44:DK:14:ALA:HA	44:DK:41:PHE:CZ	2.37	0.60
38:DD:153:ALA:C	38:DD:154:LYS:HG3	2.21	0.60
35:BA:2202:C:H2'	38:BD:151:LYS:NZ	2.16	0.60
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.01	0.60
35:DA:2450:A:O2'	35:DA:2451:A:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:445:G:H2'	1:CA:446:G:H8	1.66	0.60
1:AA:1119:C:O2'	1:AA:1120:G:H5'	2.01	0.60
3:CC:178:LEU:O	3:CC:180:ALA:N	2.34	0.60
35:BA:1847:A:H3'	35:BA:1848:A:H5'	1.82	0.60
24:CY:636:PRO:HB3	24:CY:641:GLN:OE1	2.02	0.60
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.16	0.60
1:CA:861:G:O2'	1:CA:862:C:H5'	2.02	0.60
24:AY:176:GLY:CA	24:AY:187:THR:HA	2.32	0.60
24:AY:389:LEU:HD12	24:AY:389:LEU:N	2.16	0.60
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.66	0.60
25:D0:36:ILE:O	25:D0:36:ILE:HG13	2.02	0.60
35:DA:78:A:O2'	35:DA:79:G:H5'	2.02	0.60
42:DH:170:ARG:O	42:DH:171:LEU:CB	2.49	0.60
42:BH:170:ARG:O	42:BH:171:LEU:CB	2.47	0.60
29:B4:27:THR:O	29:B4:28:LYS:HB3	2.02	0.60
24:AY:106:VAL:HG23	24:AY:132:ARG:HG3	1.84	0.60
54:DV:47:VAL:HB	54:DV:50:PRO:O	2.01	0.60
33:B8:30:ARG:O	33:B8:31:HIS:HB3	2.01	0.60
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.20	0.60
33:D8:25:MET:HG3	48:DP:64:LYS:CB	2.32	0.60
35:DA:2392:A:C8	48:DP:60:MET:HB3	2.34	0.60
56:DX:10:ALA:O	56:DX:28:PHE:HB2	2.02	0.60
35:DA:1899:G:H22	35:DA:1902:C:H41	1.21	0.60
1:CA:1004:A:H61	1:CA:1034:G:C2'	2.14	0.60
35:DA:1452:A:C3'	35:DA:1453:U:C5'	2.72	0.60
30:D5:3:LYS:NZ	35:DA:2613:U:H2'	2.16	0.60
35:DA:2583:G:H2'	35:DA:2584:U:O2	2.02	0.60
27:D2:69:ARG:CG	27:D2:70:GLN:H	2.15	0.60
26:B1:45:ASN:HD21	26:B1:47:GLN:NE2	1.98	0.60
34:D9:19:ARG:CB	35:DA:2756:U:H5'	2.31	0.60
2:AB:151:GLY:O	2:AB:153:ARG:N	2.35	0.60
19:AS:41:VAL:C	19:AS:43:GLU:H	2.04	0.60
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.37	0.60
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.02	0.60
30:D5:36:CYS:SG	30:D5:38:ALA:HB3	2.42	0.60
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.32	0.60
27:B2:47:ASN:ND2	35:BA:94(A):G:H21	2.00	0.60
1:AA:664:G:H22	1:AA:741:G:H1	1.48	0.60
35:BA:1558:A:H4'	35:BA:1559:G:O5'	2.02	0.60
55:BW:59:VAL:O	55:BW:59:VAL:CG1	2.50	0.60
35:DA:990:A:N6	35:DA:1186:G:H1'	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:71:THR:HG22	24:CY:80:ASN:OD1	2.01	0.60
58:DZ:127:LYS:O	58:DZ:162:GLU:HG2	2.02	0.60
35:DA:910:A:H62	49:DQ:12:GLN:HA	1.67	0.60
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.66	0.60
36:BB:106:G:H2'	36:BB:107:G:H8	1.65	0.60
1:CA:270:A:H2'	1:CA:271:C:C6	2.36	0.60
55:DW:68:ARG:CA	55:DW:110:LYS:HG2	2.32	0.60
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.39	0.60
24:AY:293:THR:HB	24:AY:294:PRO:HD2	1.84	0.60
35:BA:389:G:O4'	35:BA:2413:G:H4'	2.02	0.60
35:BA:484:C:OP1	57:BY:50:ARG:HG3	2.01	0.60
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.37	0.60
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.83	0.60
1:AA:1005:A:OP1	1:AA:1006:C:N3	2.35	0.60
35:BA:2472:G:H3'	35:BA:2475:C:N4	2.17	0.60
1:CA:201:C:H2'	1:CA:202:U:H5''	1.83	0.60
35:DA:406:G:O2'	35:DA:407:G:H8	1.84	0.60
42:BH:105:LEU:HD23	42:BH:105:LEU:H	1.67	0.60
35:DA:134:C:H2'	35:DA:135:G:H8	1.65	0.60
32:B7:34:ARG:HH12	32:B7:39:ARG:HD2	1.67	0.60
37:BC:14:LYS:H	37:BC:14:LYS:HD3	1.66	0.60
35:BA:1833:U:H2'	35:BA:1834:U:H6	1.67	0.60
35:DA:2839:G:H1	35:DA:2878:U:H3	1.49	0.60
56:BX:18:TYR:C	56:BX:20:GLY:H	2.05	0.60
1:AA:499:A:H4'	1:AA:500:G:OP1	2.02	0.60
35:BA:975(A):G:O2'	35:BA:976:C:H5'	2.02	0.60
1:AA:445:G:H2'	1:AA:446:G:H8	1.67	0.60
41:BG:114:ILE:HG12	41:BG:140:ILE:HG21	1.85	0.59
10:AJ:32:ALA:HB3	10:AJ:78:ASN:HD21	1.67	0.59
35:DA:1326:U:O2'	35:DA:1327:C:H5'	2.01	0.59
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.21	0.59
24:AY:115:GLU:CD	24:AY:118:SER:HB3	2.22	0.59
9:CI:3:GLN:NE2	9:CI:20:ARG:HH21	2.00	0.59
38:DD:35:LYS:O	38:DD:36:PRO:C	2.40	0.59
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.16	0.59
1:CA:1316:G:O2'	14:CN:18:VAL:HG11	2.02	0.59
57:DY:74:PRO:HG3	57:DY:83:THR:HG22	1.84	0.59
10:CJ:32:ALA:HB3	10:CJ:76:ASN:O	2.02	0.59
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.17	0.59
30:B5:3:LYS:HG2	35:BA:747:U:O4	2.01	0.59
51:BS:99:LYS:O	51:BS:101:LEU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2344:U:H4'	35:DA:2345:G:OP1	2.00	0.59
58:DZ:179:ASP:OD1	58:DZ:182:LYS:HG3	2.02	0.59
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.67	0.59
38:DD:43:ARG:HD2	38:DD:44:ASN:OD1	2.02	0.59
35:BA:814:C:H2'	35:BA:815:C:H6	1.65	0.59
35:DA:514:A:H2'	35:DA:515:A:C8	2.37	0.59
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.16	0.59
51:DS:106:ARG:HB3	51:DS:106:ARG:NH1	2.13	0.59
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.83	0.59
1:CA:483:C:C3'	1:CA:484:G:H5''	2.31	0.59
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.16	0.59
15:AO:76:GLU:C	15:AO:78:TYR:H	2.05	0.59
42:DH:83:TYR:HB3	42:DH:135:GLY:N	2.17	0.59
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.02	0.59
12:AL:28:LYS:O	12:AL:29:GLY:C	2.38	0.59
24:AY:201:ILE:H	24:AY:201:ILE:CD1	2.14	0.59
22:CW:31:G:H2'	22:CW:32:G:C8	2.34	0.59
46:BN:35:ARG:O	46:BN:36:GLY:C	2.39	0.59
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.02	0.59
24:AY:228:MET:O	24:AY:231:TYR:HB3	2.02	0.59
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.64	0.59
12:CL:47:LYS:HD2	12:CL:48:PRO:HD3	1.84	0.59
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.02	0.59
35:DA:528:A:H2	35:DA:2043:C:C4'	2.15	0.59
47:DO:64:ARG:NE	52:DT:70:VAL:HG21	2.17	0.59
35:DA:2329:G:H2'	35:DA:2330:G:H8	1.67	0.59
18:AR:44:LEU:O	18:AR:45:SER:C	2.39	0.59
1:AA:1415:G:H2'	1:AA:1416:G:C8	2.37	0.59
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.67	0.59
52:DT:51:ARG:HG3	52:DT:98:LYS:HE3	1.83	0.59
3:AC:25:GLY:C	3:AC:27:LYS:H	2.05	0.59
1:AA:853:G:O2'	1:AA:854:G:H5'	2.02	0.59
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.01	0.59
45:DL:19:UNK:C	45:DL:21:UNK:N	2.61	0.59
35:DA:654(P):C:C2'	35:DA:654(Q):C:H5'	2.32	0.59
24:AY:264:LEU:HD23	24:AY:264:LEU:O	2.01	0.59
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.49	0.59
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.36	0.59
31:B6:35:GLU:HB2	31:B6:51:GLU:HB2	1.84	0.59
57:BY:31:LEU:HB2	57:BY:32:PRO:CA	2.31	0.59
27:B2:67:LYS:O	27:B2:70:GLN:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:27:LYS:HE2	13:AM:31:LYS:CE	2.24	0.59
24:CY:164:MET:HB2	24:CY:258:VAL:O	2.01	0.59
24:CY:74:TRP:HB3	24:CY:79:ILE:HD11	1.83	0.59
48:DP:16:ARG:C	48:DP:16:ARG:HD3	2.23	0.59
49:DQ:52:VAL:O	49:DQ:55:VAL:HG12	2.02	0.59
40:BF:195:ASP:CG	40:BF:196:LEU:H	2.06	0.59
48:BP:16:ARG:HD3	48:BP:16:ARG:C	2.22	0.59
3:AC:94:LEU:O	3:AC:95:THR:HG23	2.01	0.59
36:BB:7:G:H5'	51:BS:29:PHE:CD1	2.36	0.59
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.38	0.59
35:DA:2756:U:H1'	35:DA:2757:A:C8	2.37	0.59
36:DB:40:U:O2	36:DB:43:C:H5''	2.02	0.59
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.67	0.59
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.84	0.59
35:DA:1022:G:N2	35:DA:1142(A):A:H2	2.00	0.59
58:DZ:20:ARG:NH1	58:DZ:20:ARG:HB2	2.13	0.59
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.00	0.59
24:AY:337:SER:CA	24:AY:355:LEU:HD23	2.32	0.59
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.06	0.59
6:CF:1:MET:HE1	6:CF:68:PRO:HD3	1.84	0.59
41:DG:77:ILE:O	41:DG:80:PHE:N	2.32	0.59
44:DK:3:LYS:HD3	44:DK:29:GLN:HG2	1.84	0.59
46:BN:67:LEU:CD2	46:BN:87:LEU:HB3	2.32	0.59
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.59
1:CA:183:G:H2'	1:CA:184:G:H8	1.65	0.59
1:CA:1270:C:H4'	1:CA:1313:U:O2'	2.02	0.59
24:CY:499:ARG:HB2	24:CY:506:GLN:HB3	1.84	0.59
56:DX:8:ILE:HD11	56:DX:42:ALA:O	2.02	0.59
32:B7:24:THR:HG23	32:B7:27:GLY:N	2.16	0.59
1:AA:999:C:H2'	1:AA:1000:U:C6	2.37	0.59
22:AW:10:G:H2'	22:AW:11:A:C8	2.37	0.59
37:BC:4:HIS:ND1	37:BC:8:TYR:CE2	2.70	0.59
14:AN:14:PRO:O	14:AN:15:LYS:O	2.19	0.59
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.03	0.59
13:CM:11:ARG:O	13:CM:13:LYS:N	2.35	0.59
42:BH:105:LEU:HD23	42:BH:113:VAL:HB	1.84	0.59
9:CI:53:VAL:C	9:CI:55:ALA:H	2.05	0.59
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.01	0.59
35:DA:1842:G:H2'	35:DA:1843:C:C6	2.37	0.59
35:BA:2498:C:O2'	35:BA:2499:C:H5'	2.03	0.59
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:140:LEU:O	40:BF:143:ALA:HB3	2.03	0.59
35:DA:2037:G:H2'	35:DA:2038:G:C8	2.38	0.59
45:DL:100:UNK:HA	45:DL:105:UNK:CB	2.31	0.59
42:DH:98:LEU:HD22	42:DH:125:VAL:HG23	1.83	0.59
4:AD:15:GLU:O	4:AD:17:VAL:HG23	2.01	0.59
35:DA:2646:C:OP2	35:DA:2732:G:H2'	2.01	0.59
24:AY:135:PHE:CD1	24:AY:272:LEU:HD22	2.37	0.59
22:CW:37:U:H3	23:CX:13:A:N6	2.00	0.59
23:CX:13:A:H5'	23:CX:14:A:OP1	2.03	0.59
33:B8:48:PHE:C	33:B8:49:VAL:HG22	2.21	0.59
31:D6:5:VAL:HG12	31:D6:6:ARG:N	2.16	0.59
41:DG:51:ARG:NE	41:DG:51:ARG:HA	2.13	0.59
35:BA:212:G:C5'	35:BA:212:G:H8	2.16	0.59
10:CJ:30:SER:HA	10:CJ:80:LYS:HE2	1.85	0.59
30:D5:3:LYS:HZ2	30:D5:5:PRO:HB2	1.67	0.59
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.31	0.59
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.09	0.59
35:DA:2469:A:H2	35:DA:2481:G:H21	1.49	0.59
34:B9:17:ILE:HG22	34:B9:18:ARG:N	2.17	0.59
34:B9:19:ARG:CB	35:BA:2756:U:H5'	2.32	0.59
42:BH:65:HIS:HE1	42:BH:69:ARG:HH11	1.50	0.59
35:BA:1141:U:H6	46:BN:63:THR:HG21	1.67	0.59
24:AY:97:SER:O	24:AY:100:VAL:HG13	2.02	0.59
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.02	0.59
17:AQ:52:LYS:CD	17:AQ:52:LYS:H	2.12	0.59
52:BT:11:GLU:C	52:BT:13:ARG:H	2.06	0.59
46:DN:67:LEU:HB3	46:DN:88:GLU:HG3	1.83	0.59
49:DQ:27:VAL:HG11	49:DQ:134:ARG:HD3	1.83	0.59
57:BY:61:ILE:HG12	57:BY:62:GLU:N	2.16	0.59
39:DE:24:THR:HG22	39:DE:186:GLY:CA	2.30	0.59
24:CY:578:SER:HB3	24:CY:581:ALA:CB	2.31	0.59
9:AI:79:LEU:CD1	9:AI:83:ARG:HB2	2.33	0.59
12:AL:28:LYS:HE2	12:AL:33:ARG:NH1	2.17	0.59
35:DA:2462:U:H2'	35:DA:2463:C:C6	2.37	0.59
35:DA:1788:C:O2'	35:DA:1789:A:H5'	2.03	0.59
1:AA:1095:U:P	1:AA:1108:G:H1	2.25	0.59
2:AB:233:SER:CB	2:AB:234:PRO:CD	2.80	0.59
22:AW:74:A:H2'	22:AW:75:C:H5''	1.83	0.59
51:DS:59:LYS:HG2	51:DS:60:GLY:N	2.17	0.59
35:BA:1328:G:O5'	35:BA:1328:G:H8	1.85	0.59
24:CY:537:GLU:O	24:CY:540:PRO:HD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1921:G:O2'	35:BA:1922:G:H5'	2.02	0.59
57:DY:105:ALA:C	57:DY:107:ASP:H	2.02	0.59
1:CA:950:U:H2'	1:CA:951:G:H8	1.67	0.59
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.01	0.59
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.84	0.59
10:AJ:29:ARG:CZ	10:AJ:29:ARG:HB3	2.31	0.59
1:AA:992:U:H1'	1:AA:993:G:C2	2.37	0.59
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.18	0.59
29:B4:9:LEU:CD1	29:B4:10:VAL:H	2.15	0.59
41:BG:59:GLU:O	41:BG:63:ILE:HG13	2.03	0.59
24:CY:406:GLU:HB3	24:CY:407:PRO:HD2	1.84	0.59
31:B6:7:ILE:N	31:B6:7:ILE:HD12	2.17	0.59
31:B6:54:ILE:HD13	35:BA:2420:C:H4'	1.83	0.59
48:BP:23:PRO:O	48:BP:33:ARG:HD2	2.01	0.59
48:BP:33:ARG:O	48:BP:34:GLY:C	2.40	0.59
48:BP:58:THR:C	48:BP:61:ARG:HE	2.06	0.59
57:DY:76:CYS:SG	57:DY:77:PRO:CD	2.82	0.59
38:BD:35:LYS:CD	38:BD:36:PRO:N	2.60	0.59
41:DG:114:ILE:O	41:DG:116:ASP:N	2.36	0.59
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	2.17	0.59
1:CA:1005:A:OP1	1:CA:1006:C:N3	2.35	0.59
8:AH:104:ARG:HB3	8:AH:108:GLY:H	1.67	0.59
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.02	0.59
51:BS:89:ARG:HG3	51:BS:92:TYR:CB	2.31	0.59
35:DA:2287:A:N6	35:DA:2344:U:N3	2.48	0.59
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.22	0.59
35:DA:2787:C:H1'	39:DE:61:ARG:CG	2.30	0.59
39:BE:49:LEU:CD2	39:BE:49:LEU:N	2.66	0.59
22:CW:14:A:C3'	22:CW:15:G:H5''	2.33	0.59
24:AY:82:ILE:HD12	24:AY:101:LEU:HD22	1.85	0.59
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.32	0.59
1:CA:953:G:O6	1:CA:1228:C:N4	2.35	0.59
49:BQ:43:THR:O	49:BQ:47:ILE:HG13	2.02	0.59
35:BA:2469:A:H2	35:BA:2481:G:H21	1.49	0.59
2:AB:21:ARG:HD2	2:AB:39:ILE:CG1	2.33	0.59
38:DD:267:SER:O	38:DD:269:PHE:N	2.34	0.59
22:CW:74:A:C3'	22:CW:75:C:H5''	2.32	0.59
47:DO:104:ARG:NE	52:DT:33:LYS:HE3	2.16	0.59
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.02	0.59
24:CY:499:ARG:O	24:CY:505:GLY:O	2.19	0.59
37:DC:99:GLU:O	37:DC:100:ILE:HD13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.84	0.59
26:D1:6:GLU:C	26:D1:7:ILE:HD12	2.22	0.59
42:DH:105:LEU:CD2	42:DH:113:VAL:HB	2.32	0.59
4:CD:58:LEU:C	4:CD:58:LEU:HD23	2.22	0.59
31:B6:40:CYS:HB2	31:B6:46:HIS:ND1	2.18	0.59
35:BA:139(A):G:N2	56:BX:44:GLU:OE1	2.36	0.59
1:CA:218:C:H5'	1:CA:470:C:N4	2.18	0.59
35:BA:2801:A:H4'	35:BA:2801(A):A:O4'	2.02	0.59
25:D0:73:GLY:C	25:D0:75:LEU:H	2.06	0.59
35:BA:786:C:O2'	35:BA:787:U:H5'	2.02	0.59
39:DE:170:LEU:HD12	39:DE:170:LEU:N	2.17	0.59
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.67	0.59
57:DY:17:SER:OG	57:DY:18:GLY:N	2.35	0.59
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.67	0.59
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.06	0.59
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.67	0.59
56:DX:18:TYR:C	56:DX:20:GLY:H	2.05	0.59
21:AU:6:ARG:HH21	21:AU:15:ARG:NH2	1.99	0.59
35:DA:16:G:H2'	35:DA:17:G:H8	1.67	0.59
36:DB:18:G:H2'	36:DB:19:G:H8	1.67	0.59
12:AL:76:ASN:CG	12:AL:76:ASN:O	2.41	0.59
40:DF:32:LEU:O	40:DF:36:VAL:HG23	2.01	0.59
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.68	0.59
24:AY:206:LEU:HD11	24:AY:210:ARG:HH12	1.67	0.59
58:DZ:61:LEU:HD12	58:DZ:65:GLN:HB2	1.85	0.59
58:DZ:61:LEU:C	58:DZ:63:ASP:H	2.06	0.59
35:DA:303:U:H2'	35:DA:304:G:C8	2.38	0.59
35:DA:274:G:O2'	35:DA:275:G:H5''	2.03	0.59
57:BY:9:LYS:HD3	57:BY:94:LYS:HE2	1.84	0.59
29:D4:25:TYR:O	29:D4:26:SER:HB3	2.03	0.59
58:BZ:151:HIS:CA	58:BZ:171:ILE:HG23	2.22	0.59
31:B6:16:CYS:SG	31:B6:48:VAL:HG21	2.42	0.59
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.55	0.59
35:DA:1080:C:O2'	44:DK:126:MET:HG3	2.02	0.59
35:DA:637:A:OP1	48:DP:133:SER:HB3	2.03	0.59
48:DP:91:PHE:HZ	48:DP:100:LEU:HD11	1.67	0.59
44:BK:3:LYS:HB3	44:BK:29:GLN:HB3	1.84	0.59
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.37	0.59
35:BA:2712:U:O2'	35:BA:2712(A):A:O5'	2.20	0.59
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.14	0.59
52:DT:125:ARG:CA	52:DT:125:ARG:HH11	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:11:GLU:H	52:BT:11:GLU:CD	2.06	0.59
38:BD:106:ILE:HD11	38:BD:196:VAL:HG13	1.83	0.59
40:BF:163:VAL:O	40:BF:166:ALA:HB3	2.03	0.59
42:DH:41:MET:HG2	42:DH:43:VAL:HG13	1.84	0.59
38:BD:145:VAL:HG12	38:BD:146:GLU:N	2.14	0.59
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.32	0.59
35:BA:654(R):C:HO2'	35:BA:654(S):G:H8	1.49	0.59
35:BA:892:G:H2'	35:BA:893:C:C6	2.37	0.59
10:CJ:47:PHE:CZ	14:CN:37:PHE:CE2	2.90	0.59
55:BW:68:ARG:CA	55:BW:110:LYS:HG2	2.32	0.59
10:CJ:18:ALA:C	10:CJ:20:ALA:H	2.06	0.59
12:CL:47:LYS:HZ2	12:CL:47:LYS:HB3	1.67	0.59
36:BB:106:G:C5'	58:BZ:31:ARG:HB3	2.33	0.59
27:D2:65:ASN:ND2	35:DA:112:U:H5'	2.17	0.59
22:AV:3:C:C2'	22:AV:4:G:H5'	2.32	0.59
46:DN:21:LYS:HD2	46:DN:26:LEU:HB3	1.85	0.59
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.83	0.59
1:CA:99:U:H2'	1:CA:100:C:C6	2.37	0.59
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.67	0.59
35:DA:15:G:O2'	35:DA:16:G:H5'	2.02	0.59
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.85	0.59
35:DA:1198:U:O2	35:DA:1198:U:H2'	2.01	0.59
35:DA:1102:C:H2'	35:DA:1103:A:C8	2.38	0.59
24:AY:315:LYS:NZ	24:AY:317:MET:HG2	2.17	0.59
4:AD:108:LEU:HD21	4:AD:183:GLY:HA3	1.84	0.59
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.37	0.59
11:CK:18:ARG:HH21	11:CK:37:GLY:N	2.00	0.59
24:CY:555:LEU:HD21	24:CY:599:PRO:HG3	1.84	0.59
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	2.02	0.59
9:AI:41:VAL:O	9:AI:41:VAL:HG12	2.02	0.59
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.18	0.59
35:DA:214:G:H1'	35:DA:216:A:O2'	2.02	0.59
29:B4:3:GLU:HG3	36:BB:43:C:OP1	2.03	0.59
35:DA:2473:U:C3'	35:DA:2474:C:H5''	2.14	0.59
35:DA:212:G:H8	35:DA:212:G:C5'	2.15	0.59
35:BA:996:A:O3'	53:BU:92:ARG:HG2	2.03	0.59
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.56	0.59
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.17	0.59
35:BA:27:G:N2	35:BA:512:G:C2'	2.64	0.59
24:CY:388:THR:HG23	24:CY:399:LEU:HD22	1.83	0.59
40:BF:84:VAL:O	40:BF:86:GLY:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:114:ILE:O	48:DP:130:PHE:HA	2.02	0.59
30:D5:56:LYS:HG3	30:D5:57:VAL:N	2.11	0.59
30:D5:55:ARG:HH12	50:DR:33:ARG:HD2	1.67	0.59
35:BA:2756:U:H1'	35:BA:2757:A:C8	2.37	0.59
35:BA:614(A):U:H5''	35:BA:614(B):G:OP2	2.03	0.59
22:CW:14:A:H2'	22:CW:15:G:H5''	1.85	0.59
22:AW:30:G:H2'	22:AW:31:G:H8	1.65	0.59
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.11	0.59
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.04	0.59
58:BZ:145:GLU:O	58:BZ:146:ILE:C	2.39	0.59
40:BF:133:ASN:H	40:BF:162:LEU:HD23	1.66	0.59
12:CL:20:LYS:N	12:CL:20:LYS:HD3	2.17	0.59
1:CA:1444:C:H2'	1:CA:1445:C:C5	2.37	0.59
12:AL:20:LYS:N	12:AL:20:LYS:HD3	2.16	0.59
35:DA:2443:C:H2'	35:DA:2443:C:O2	2.02	0.59
35:BA:752:A:O2'	35:BA:753:C:OP2	2.18	0.59
2:CB:96:ARG:N	2:CB:96:ARG:HD2	2.18	0.59
1:CA:1381:U:C5	1:CA:1382:C:C5	2.90	0.59
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.51	0.59
1:CA:358:U:H4'	24:CY:322:VAL:O	2.02	0.59
1:AA:1347:G:O2'	1:AA:1348:U:P	2.60	0.59
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.37	0.59
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE1	1.84	0.59
54:DV:35:LEU:O	54:DV:37:VAL:N	2.36	0.59
38:BD:11:PRO:O	38:BD:13:ARG:N	2.36	0.59
35:DA:1467:C:C5	35:DA:1546:C:H2'	2.38	0.59
35:DA:975(A):G:O2'	35:DA:976:C:H5'	2.01	0.59
38:DD:201:HIS:O	38:DD:204:ILE:HG12	2.03	0.59
35:DA:1428:C:N4	35:DA:1569:A:H3'	2.18	0.59
22:AV:72:A:H2'	22:AV:73:A:C8	2.37	0.59
26:B1:32:LYS:C	26:B1:33:LYS:HG3	2.21	0.59
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.83	0.59
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.02	0.59
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.68	0.59
35:BA:310:A:OP2	57:BY:18:GLY:HA2	2.02	0.59
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.17	0.59
24:AY:662:LYS:HZ2	42:BH:175:LYS:CE	2.10	0.59
29:B4:2:LYS:O	29:B4:4:GLY:N	2.33	0.59
35:BA:1203:G:H3'	35:BA:1204:A:C5'	2.31	0.59
57:DY:90:LEU:HD12	57:DY:91:GLU:OE2	2.03	0.59
40:DF:110:LEU:CD1	40:DF:206:ILE:HD11	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:12:PRO:CD	42:BH:49:VAL:HG12	2.24	0.59
31:D6:51:GLU:HG2	31:D6:52:VAL:H	1.68	0.59
29:D4:5:ILE:HG12	29:D4:5:ILE:O	2.01	0.59
41:DG:40:ASN:ND2	41:DG:41:GLN:N	2.51	0.59
3:AC:70:VAL:CG1	3:AC:72:LYS:H	2.06	0.59
24:CY:213:HIS:O	24:CY:217:VAL:HG23	2.03	0.59
40:DF:17:ARG:HH11	40:DF:17:ARG:HG3	1.68	0.59
31:D6:45:LYS:HE3	35:DA:2371:G:H5''	1.85	0.59
6:CF:37:VAL:O	6:CF:38:GLU:HG3	2.03	0.59
39:DE:36:ARG:HG2	39:DE:36:ARG:NH1	2.14	0.59
3:AC:79:ARG:CB	3:AC:79:ARG:HH11	2.11	0.59
52:BT:90:GLN:HG2	52:BT:120:ARG:NH2	2.17	0.59
35:BA:2188:C:H2'	35:BA:2189:U:C6	2.38	0.59
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.17	0.59
52:DT:29:ARG:CG	52:DT:85:LYS:HA	2.33	0.59
24:CY:530:VAL:O	24:CY:531:GLY:C	2.41	0.59
40:DF:158:THR:HG21	40:DF:163:VAL:HB	1.85	0.59
58:DZ:142:SER:H	58:DZ:144:LEU:CD2	2.16	0.59
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.67	0.59
1:AA:1190:G:H3'	3:AC:3:ASN:HD22	1.67	0.59
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.03	0.59
24:CY:71:THR:HG21	24:CY:357:ARG:HD2	1.83	0.59
49:DQ:12:GLN:NE2	49:DQ:73:PRO:HD2	2.16	0.59
18:AR:74:ARG:HD3	18:AR:81:PHE:CD2	2.37	0.59
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.51	0.59
24:AY:529:ILE:HD11	24:AY:567:LEU:HD11	1.84	0.59
35:DA:2801:A:H4'	35:DA:2801(A):A:O4'	2.02	0.59
35:BA:688:U:H4'	35:BA:1780:A:C2	2.37	0.59
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.84	0.59
35:DA:1993:U:H4'	39:DE:128:SER:OG	2.02	0.59
7:CG:64:GLN:O	7:CG:67:GLU:HB3	2.02	0.59
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.83	0.59
38:BD:134:ARG:HG3	38:BD:135:PHE:CD1	2.37	0.59
35:DA:2495:G:H5''	49:DQ:82:ARG:HG2	1.84	0.59
35:DA:1212:G:O2'	35:DA:1236:G:N2	2.35	0.59
42:BH:171:LEU:CD2	42:BH:171:LEU:C	2.71	0.59
40:DF:39:TRP:CB	40:DF:101:LEU:HD22	2.32	0.59
41:BG:91:ARG:C	41:BG:91:ARG:HD2	2.23	0.59
35:BA:1242:A:C6	48:BP:8:PRO:HG2	2.38	0.59
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.03	0.59
35:BA:274:G:O2'	35:BA:275:G:H5''	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:12:PRO:CD	42:DH:49:VAL:HG12	2.24	0.59
58:BZ:152:ALA:HA	58:BZ:167:PRO:HB2	1.84	0.59
41:BG:131:TYR:CE2	41:BG:133:LEU:HB3	2.38	0.59
46:DN:128:HIS:HE1	46:DN:134:ARG:HH11	1.50	0.59
47:BO:61:VAL:HG21	47:BO:111:PHE:CE2	2.38	0.59
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.00	0.59
52:BT:90:GLN:O	52:BT:91:ARG:C	2.40	0.59
39:DE:184:VAL:O	39:DE:186:GLY:N	2.28	0.59
58:BZ:107:THR:HG23	58:BZ:111:VAL:HG21	1.83	0.59
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.03	0.59
51:DS:98:VAL:HG12	51:DS:100:ALA:HB2	1.85	0.59
37:DC:29:LEU:HD23	37:DC:29:LEU:C	2.22	0.59
24:AY:196:ILE:HG13	24:AY:197:ARG:N	2.17	0.59
16:CP:25:ARG:HG3	16:CP:25:ARG:NH1	2.18	0.59
35:BA:2111:C:C2	35:BA:2147:G:N2	2.71	0.59
1:CA:1190:G:H3'	3:CC:3:ASN:HD22	1.68	0.59
1:CA:630:G:O2'	1:CA:631:G:H5''	2.03	0.59
49:BQ:21:THR:HG23	49:BQ:101:ARG:HB2	1.85	0.59
48:BP:80:TYR:CE1	48:BP:111:ARG:HG2	2.38	0.59
35:BA:2794:C:H42	35:BA:2801(A):A:H61	1.50	0.59
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.67	0.59
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.02	0.59
35:BA:1168:G:H2'	35:BA:1169:G:C8	2.37	0.59
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.83	0.59
17:AQ:80:GLY:O	17:AQ:81:ARG:HD2	2.02	0.59
2:AB:7:VAL:O	2:AB:11:LEU:HG	2.02	0.59
41:BG:130:ASN:OD1	41:BG:160:VAL:HA	2.02	0.59
7:CG:121:ALA:O	7:CG:125:MET:HG3	2.03	0.59
57:DY:43:ASN:ND2	57:DY:64:GLU:HG3	2.17	0.59
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.37	0.59
1:CA:122:G:O2'	1:CA:123:C:H5'	2.03	0.59
35:DA:1093:G:H21	35:DA:1098:A:H62	1.50	0.59
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.38	0.59
10:CJ:29:ARG:HB3	10:CJ:29:ARG:CZ	2.32	0.59
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.22	0.59
1:CA:1490:C:C5'	1:CA:1490:C:H6	2.13	0.59
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.38	0.59
40:BF:32:LEU:O	40:BF:36:VAL:HG23	2.03	0.59
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.18	0.59
46:BN:41:ASP:C	53:BU:64:ARG:HH22	2.05	0.59
24:AY:413:ILE:HG22	24:AY:449:THR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:487:ILE:HD13	24:AY:487:ILE:H	1.68	0.59
35:BA:363(A):A:H2'	35:BA:363(B):G:H8	1.68	0.59
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.17	0.59
18:AR:37:VAL:O	18:AR:39:VAL:N	2.36	0.59
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.09	0.59
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.83	0.59
35:DA:1858:G:H2'	35:DA:1883:G:H22	1.66	0.59
24:CY:388:THR:C	24:CY:389:LEU:HD12	2.22	0.59
35:DA:650:C:H2'	35:DA:651:G:H5''	1.85	0.59
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.49	0.59
29:D4:2:LYS:O	29:D4:4:GLY:N	2.35	0.59
35:BA:2891:G:H4'	35:BA:2892:A:OP1	2.01	0.59
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.20	0.59
29:D4:24:THR:HG21	41:DG:104:GLU:HG2	1.84	0.59
6:AF:1:MET:HE1	6:AF:68:PRO:HD3	1.85	0.59
38:BD:24:ILE:O	38:BD:25:THR:O	2.20	0.59
12:AL:27:LEU:HG	12:AL:62:SER:HB2	1.85	0.59
37:DC:26:ALA:O	37:DC:30:VAL:HG23	2.03	0.59
55:DW:17:VAL:O	55:DW:20:VAL:HG22	2.03	0.59
1:CA:275:G:H5''	17:CQ:14:LYS:CB	2.32	0.59
1:CA:277:C:O2'	1:CA:278:G:H5'	2.02	0.59
49:BQ:24:GLY:O	49:BQ:102:VAL:HG23	2.02	0.59
52:BT:129:ARG:CG	52:BT:129:ARG:O	2.50	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:HD23	1.84	0.59
24:AY:606:MET:O	24:AY:646:PHE:HA	2.02	0.59
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.21	0.59
20:AT:84:LEU:C	20:AT:86:ARG:H	2.06	0.59
16:AP:50:LYS:O	16:AP:51:VAL:HG23	2.03	0.59
35:BA:1930:G:O2'	35:BA:1931:U:P	2.61	0.59
1:CA:72:C:H2'	1:CA:73:G:C8	2.37	0.59
35:BA:1169:G:H1	35:BA:1180:C:H42	1.49	0.59
45:BM:5:UNK:C	45:BM:7:UNK:N	3.27	0.59
35:DA:519:U:H5''	55:DW:25:ARG:NH2	2.17	0.59
35:BA:2495:G:H5''	49:BQ:82:ARG:HG2	1.85	0.59
35:DA:1847:A:H3'	35:DA:1848:A:H5'	1.84	0.59
35:DA:451:C:H41	35:DA:453:C:H3'	1.68	0.59
24:CY:223:PHE:CE2	24:CY:249:GLY:HA3	2.38	0.59
6:AF:42:GLU:O	6:AF:44:GLY:N	2.36	0.59
6:CF:36:ARG:CZ	6:CF:36:ARG:HB3	2.31	0.59
3:CC:99:VAL:HG23	3:CC:99:VAL:O	2.03	0.59
15:CO:65:ARG:HH11	15:CO:65:ARG:HG2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:193:ASP:O	2:CB:193:ASP:OD2	2.20	0.59
1:CA:313:A:O2'	1:CA:314:C:H5'	2.03	0.59
1:CA:434:U:H2'	1:CA:435:C:C6	2.38	0.59
35:DA:1109:C:H5'	35:DA:1110:G:OP2	2.03	0.59
24:CY:142:THR:HG22	24:CY:143:GLY:N	2.17	0.59
24:CY:85:PRO:O	24:CY:87:HIS:N	2.36	0.59
40:BF:148:LEU:HD23	40:BF:191:ARG:NH1	2.18	0.59
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.03	0.59
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.03	0.59
24:AY:414:GLU:O	24:AY:474:ALA:HB1	2.03	0.59
35:DA:296:C:O2'	35:DA:297:C:H5'	2.03	0.59
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD13	2.37	0.59
41:DG:91:ARG:HD2	41:DG:92:VAL:N	2.18	0.59
38:BD:241:PRO:O	38:BD:242:ARG:HB2	2.02	0.59
31:B6:18:ARG:HG3	31:B6:19:ARG:H	1.68	0.59
47:DO:47:ILE:CG2	47:DO:48:PRO:HD2	2.33	0.59
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.02	0.59
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.38	0.59
6:AF:38:GLU:O	6:AF:39:LYS:O	2.20	0.59
48:BP:91:PHE:N	48:BP:91:PHE:CD1	2.67	0.59
48:BP:97:PRO:HD3	48:BP:126:VAL:O	2.03	0.59
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.83	0.59
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.38	0.59
40:DF:59:TYR:HE1	40:DF:85:GLY:O	1.85	0.59
10:CJ:55:LYS:H	10:CJ:55:LYS:HE3	1.68	0.59
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.03	0.59
4:AD:129:ASN:HD21	4:AD:145:GLU:N	1.96	0.59
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.15	0.59
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	1.85	0.59
1:CA:960:U:C5	1:CA:1225:A:C8	2.91	0.59
38:DD:267:SER:HA	38:DD:270:ILE:HD11	1.84	0.59
52:BT:57:PHE:C	52:BT:58:ASN:HD22	2.06	0.59
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.02	0.59
25:D0:14:ARG:CB	25:D0:14:ARG:HH11	2.15	0.59
35:BA:2018:G:H21	53:BU:34:LYS:NZ	2.00	0.59
58:BZ:108:PRO:HB3	58:BZ:141:VAL:CG1	2.33	0.59
9:CI:93:ARG:C	9:CI:95:LYS:H	2.06	0.59
1:AA:183:G:H2'	1:AA:184:G:H8	1.67	0.59
57:BY:2:ARG:N	57:BY:4:LYS:HG2	2.18	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:CD2	2.33	0.59
35:BA:528:A:H2	35:BA:2043:C:C5'	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:20:C:H2'	36:BB:21:G:H5'	1.84	0.59
49:BQ:27:VAL:HG11	49:BQ:134:ARG:HD3	1.84	0.59
35:DA:492:A:C2'	35:DA:493:G:H5'	2.33	0.59
40:DF:125:LEU:HD23	40:DF:125:LEU:N	2.17	0.59
44:DK:37:PHE:O	44:DK:41:PHE:HB3	2.02	0.59
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.23	0.59
37:DC:57:GLN:NE2	37:DC:205:ALA:HA	2.18	0.59
35:DA:443:A:H3'	40:DF:45:ARG:HH21	1.67	0.59
50:DR:28:LEU:CD2	50:DR:29:LEU:HD12	2.32	0.59
45:DL:67:UNK:O	45:DL:69:UNK:N	2.36	0.59
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.50	0.59
35:DA:2097:C:H2'	35:DA:2098:U:H6	1.67	0.59
24:CY:109:ASP:OD1	24:CY:111:SER:HB2	2.02	0.59
42:DH:92:ILE:O	42:DH:94:TYR:N	2.30	0.59
35:DA:564:C:O2'	35:DA:565:C:H5'	2.03	0.59
47:DO:91:LEU:N	47:DO:91:LEU:HD22	2.18	0.59
1:AA:1279:A:H5'	1:AA:1280:A:OP1	2.03	0.59
1:CA:882:C:O2'	1:CA:883:C:H5'	2.03	0.59
35:DA:1203:G:H3'	35:DA:1204:A:C5'	2.33	0.58
35:DA:1245:G:C5'	40:DF:34:TRP:HZ2	2.16	0.58
58:BZ:54:HIS:HE1	58:BZ:123:ASP:OD2	1.85	0.58
52:BT:28:VAL:HG21	52:BT:46:GLU:CG	2.26	0.58
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.68	0.58
24:CY:181:LEU:CD2	24:CY:243:VAL:HG22	2.30	0.58
58:BZ:4:ARG:HH12	58:BZ:66:SER:CB	2.15	0.58
35:DA:358:U:H2'	35:DA:359:A:C8	2.27	0.58
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.31	0.58
51:DS:99:LYS:O	51:DS:101:LEU:N	2.36	0.58
39:BE:9:VAL:CG2	39:BE:10:GLY:N	2.65	0.58
26:B1:57:GLU:HG2	26:B1:58:ILE:N	2.18	0.58
26:B1:41:ARG:HH22	35:BA:1365:A:C5'	2.16	0.58
42:BH:83:TYR:HB3	42:BH:135:GLY:N	2.16	0.58
38:BD:130:ALA:C	38:BD:131:LEU:HD12	2.24	0.58
25:B0:14:ARG:CB	25:B0:14:ARG:HH11	2.15	0.58
1:CA:1308:U:H5''	13:CM:98:VAL:CG2	2.32	0.58
35:BA:279:C:H3'	35:BA:280:C:H5''	1.84	0.58
24:CY:515:GLU:OE2	24:CY:564:LYS:HD3	2.03	0.58
24:AY:519:ARG:NH1	24:AY:678:GLU:HB2	2.18	0.58
49:BQ:39:PRO:HB3	49:BQ:99:PRO:HD3	1.85	0.58
24:AY:510:VAL:HG13	24:AY:569:ASP:O	2.02	0.58
24:CY:416:LYS:HG2	24:CY:417:THR:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:605:C:H2'	35:BA:606:U:H6	1.67	0.58
52:BT:35:LYS:NZ	52:BT:41:ARG:NH1	2.50	0.58
20:CT:84:LEU:C	20:CT:86:ARG:H	2.06	0.58
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.03	0.58
1:CA:100:C:H2'	1:CA:101:A:C8	2.38	0.58
52:DT:51:ARG:O	52:DT:61:PHE:HA	2.03	0.58
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.68	0.58
6:CF:36:ARG:NH1	6:CF:36:ARG:HB3	2.18	0.58
6:CF:4:TYR:CE1	6:CF:92:LYS:HD2	2.38	0.58
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.38	0.58
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.02	0.58
1:AA:313:A:O2'	1:AA:314:C:H5'	2.03	0.58
1:AA:861:G:O2'	1:AA:862:C:H5'	2.02	0.58
1:AA:405:U:H3'	1:AA:406:G:H5'	1.84	0.58
38:BD:31:LYS:NZ	38:BD:33:LEU:HB2	2.18	0.58
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.17	0.58
24:AY:544:LYS:O	24:AY:548:GLU:HB2	2.03	0.58
1:CA:499:A:H4'	1:CA:500:G:OP1	2.02	0.58
57:BY:43:ASN:ND2	57:BY:64:GLU:HG3	2.17	0.58
1:AA:434:U:H2'	1:AA:435:C:C6	2.38	0.58
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.38	0.58
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.68	0.58
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.37	0.58
35:BA:1485:G:N3	35:BA:1505:C:N3	2.51	0.58
35:BA:320:A:H4'	35:BA:322:A:C8	2.38	0.58
38:DD:80:ALA:HB3	38:DD:94:LEU:HB3	1.85	0.58
35:DA:2056:G:H2'	35:DA:2056:G:N3	2.17	0.58
24:CY:110:SER:HA	24:CY:149:VAL:CG2	2.33	0.58
24:CY:137:ASN:O	24:CY:139:MET:N	2.30	0.58
24:CY:183:MET:O	24:CY:201:ILE:HD11	2.03	0.58
24:CY:227:ILE:HD13	24:CY:242:LEU:HA	1.85	0.58
1:CA:1298:C:H5''	7:CG:114:ARG:HH22	1.68	0.58
27:B2:3:LEU:HB2	35:BA:98:G:OP1	2.02	0.58
35:DA:27:G:O2'	35:DA:28:A:H8	1.85	0.58
35:BA:6:A:N3	35:BA:6:A:H2'	2.17	0.58
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.56	0.58
19:CS:29:ARG:O	19:CS:31:ILE:N	2.35	0.58
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.32	0.58
9:AI:93:ARG:C	9:AI:95:LYS:H	2.06	0.58
42:DH:16:SER:CB	42:DH:27:LYS:HB2	2.31	0.58
58:BZ:109:ALA:C	58:BZ:111:VAL:N	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:741:G:O2'	1:AA:742:G:H5'	2.03	0.58
12:CL:27:LEU:HG	12:CL:62:SER:HB2	1.85	0.58
1:CA:1370:G:C2	1:CA:1371:G:C8	2.91	0.58
1:AA:1298:C:H5''	7:AG:114:ARG:HH22	1.69	0.58
5:AE:100:VAL:HG23	5:AE:100:VAL:O	2.02	0.58
35:DA:2200:C:H42	35:DA:2223:G:H1	1.51	0.58
55:BW:109:GLU:CD	55:BW:109:GLU:H	2.07	0.58
35:BA:365:C:C6	35:BA:365:C:H5'	2.37	0.58
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.67	0.58
35:BA:184:C:H2'	35:BA:185:U:H6	1.65	0.58
1:CA:1305:G:N2	1:CA:1331:G:O2'	2.30	0.58
42:BH:86:GLU:HA	42:BH:132:ARG:HA	1.84	0.58
35:DA:1717:G:C2'	35:DA:1718:G:H5''	2.34	0.58
35:DA:271(I):G:H3'	35:DA:271(J):C:H6	1.68	0.58
24:CY:485:GLU:OE2	24:CY:553:GLY:HA3	2.02	0.58
30:D5:19:ARG:HA	35:DA:2046:G:C5'	2.32	0.58
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	1.84	0.58
54:DV:32:THR:OG1	54:DV:60:GLU:HG3	2.04	0.58
39:DE:101:ARG:HH11	39:DE:169:ASN:ND2	2.01	0.58
35:BA:1467:C:C5	35:BA:1546:C:H2'	2.38	0.58
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.02	0.58
1:AA:812:C:O2'	1:AA:813:U:OP2	2.20	0.58
1:AA:241:C:O2'	1:AA:242:C:H5'	2.03	0.58
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.38	0.58
36:BB:18:G:H2'	36:BB:19:G:H8	1.68	0.58
35:DA:1794:U:O2'	35:DA:1795:C:H5'	2.03	0.58
35:DA:1614:A:H2'	35:DA:1615:C:H5'	1.84	0.58
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.38	0.58
35:BA:519:U:H5''	55:BW:25:ARG:NH2	2.18	0.58
24:AY:137:ASN:ND2	24:AY:263:ALA:H	2.00	0.58
1:CA:853:G:O2'	1:CA:854:G:H5'	2.03	0.58
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.69	0.58
37:DC:211:ARG:HG3	37:DC:211:ARG:HH11	1.68	0.58
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.03	0.58
35:BA:1796:U:OP1	38:BD:276:LYS:HE3	2.03	0.58
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.39	0.58
35:DA:1353:A:H2'	35:DA:1354:A:C8	2.38	0.58
46:BN:97:ARG:O	46:BN:101:HIS:HB2	2.03	0.58
42:DH:156:ALA:O	42:DH:158:HIS:HD2	1.86	0.58
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.32	0.58
42:BH:98:LEU:HD22	42:BH:125:VAL:HG23	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:9:LEU:HD13	29:B4:26:SER:O	2.02	0.58
24:CY:605:ILE:HD11	24:CY:677:GLN:CG	2.32	0.58
4:AD:25:ARG:HH12	4:AD:30:LYS:HB2	1.69	0.58
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.84	0.58
53:DU:93:LYS:HD2	53:DU:93:LYS:H	1.69	0.58
33:B8:25:MET:HG3	48:BP:64:LYS:CB	2.33	0.58
58:DZ:58:VAL:HA	58:DZ:67:LEU:O	2.03	0.58
57:DY:9:LYS:HD3	57:DY:94:LYS:HE2	1.83	0.58
35:DA:1485:G:N3	35:DA:1505:C:N3	2.50	0.58
35:DA:27:G:N2	35:DA:512:G:C2'	2.64	0.58
2:CB:97:TRP:CZ2	2:CB:102:LEU:HD13	2.34	0.58
2:CB:151:GLY:O	2:CB:153:ARG:N	2.36	0.58
1:CA:1452:C:O2'	1:CA:1456:G:H5''	2.03	0.58
35:DA:813:U:H2'	35:DA:814:C:C5	2.38	0.58
35:BA:637:A:OP1	48:BP:133:SER:HB3	2.03	0.58
41:DG:133:LEU:HD12	41:DG:133:LEU:O	2.02	0.58
35:DA:2297:C:O2'	35:DA:2298:A:H5'	2.03	0.58
1:AA:483:C:C3'	1:AA:484:G:H5''	2.29	0.58
24:AY:101:LEU:HD12	24:AY:103:GLY:O	2.04	0.58
24:AY:71:THR:HG21	24:AY:357:ARG:HD2	1.83	0.58
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.32	0.58
26:D1:80:LEU:HB3	26:D1:82:LEU:CD1	2.33	0.58
26:D1:82:LEU:HD23	26:D1:90:ILE:HG23	1.85	0.58
52:DT:108:ARG:HA	52:DT:111:ARG:NH1	2.18	0.58
27:D2:36:ARG:HA	27:D2:39:ALA:CB	2.33	0.58
35:BA:1332:G:H22	35:BA:1609:A:H3'	1.68	0.58
35:DA:797:C:OP1	40:DF:62:ARG:HG3	2.02	0.58
58:BZ:145:GLU:OE1	58:BZ:146:ILE:HD13	2.03	0.58
19:AS:64:GLU:C	29:B4:48:ARG:HH22	2.07	0.58
56:BX:8:ILE:HD11	56:BX:42:ALA:O	2.02	0.58
4:AD:203:VAL:O	4:AD:206:PHE:HB3	2.03	0.58
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.38	0.58
20:CT:47:GLY:O	20:CT:49:ALA:N	2.30	0.58
1:CA:59:A:H2'	1:CA:59:A:N3	2.17	0.58
35:DA:145:G:H2'	35:DA:146:G:C8	2.37	0.58
35:DA:573:G:O2'	35:DA:574:C:H3'	2.03	0.58
35:DA:528:A:H2	35:DA:2043:C:C5'	2.15	0.58
48:DP:80:TYR:CE1	48:DP:111:ARG:HG2	2.37	0.58
1:CA:160:A:H1'	1:CA:344:A:N7	2.18	0.58
1:AA:160:A:H1'	1:AA:344:A:N7	2.18	0.58
36:DB:48:A:H2'	36:DB:49:C:C6	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:498:ILE:HG13	24:CY:498:ILE:O	2.03	0.58
35:DA:484:C:OP1	57:DY:50:ARG:HG3	2.03	0.58
35:DA:1196:C:O2'	35:DA:1227:G:H4'	2.04	0.58
35:DA:889:C:H2'	35:DA:890:A:O4'	2.03	0.58
1:AA:955:U:O2'	1:AA:956:U:H5'	2.03	0.58
26:D1:3:LYS:HD3	35:DA:1364:G:H5''	1.84	0.58
42:DH:171:LEU:CD2	42:DH:171:LEU:C	2.71	0.58
41:BG:107:LEU:HD23	41:BG:111:LEU:CD1	2.32	0.58
24:AY:108:PHE:HE1	24:AY:118:SER:HB2	1.67	0.58
24:AY:227:ILE:HD13	24:AY:242:LEU:HA	1.85	0.58
22:AW:68:C:H2'	22:AW:69:C:C5	2.38	0.58
58:DZ:9:TYR:OH	58:DZ:61:LEU:HD13	2.04	0.58
38:BD:34:VAL:C	38:BD:36:PRO:HD2	2.24	0.58
42:BH:12:PRO:O	42:BH:15:VAL:HG22	2.04	0.58
31:D6:9:LEU:HD12	31:D6:28:ARG:HG3	1.84	0.58
31:D6:11:LEU:CD2	31:D6:51:GLU:HG3	2.32	0.58
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.85	0.58
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.33	0.58
30:D5:44:THR:O	30:D5:51:TYR:HE1	1.87	0.58
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.48	0.58
53:DU:8:VAL:HG23	53:DU:11:ARG:HH21	1.68	0.58
35:DA:2439:A:HO2'	35:DA:2587:A:H5''	1.64	0.58
35:DA:570:G:H2'	35:DA:2030:A:C5	2.38	0.58
1:AA:1392:G:N2	1:AA:1502:A:C8	2.71	0.58
35:DA:1799:G:H8	38:DD:181:GLU:OE1	1.87	0.58
35:BA:2809:A:H2'	35:BA:2810:A:C8	2.39	0.58
35:DA:2809:A:H2'	35:DA:2810:A:C8	2.38	0.58
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.85	0.58
52:DT:90:GLN:O	52:DT:91:ARG:C	2.41	0.58
52:BT:85:LYS:HZ3	52:BT:85:LYS:HB3	1.64	0.58
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.56	0.58
52:BT:108:ARG:HA	52:BT:111:ARG:NH1	2.18	0.58
35:DA:1949:G:H2'	35:DA:1950:G:C8	2.38	0.58
36:BB:115:G:H2'	36:BB:116:G:H8	1.69	0.58
7:CG:140:ASP:O	7:CG:144:MET:HG2	2.04	0.58
18:CR:44:LEU:O	18:CR:45:SER:C	2.39	0.58
1:AA:218:C:H5'	1:AA:470:C:N4	2.18	0.58
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.35	0.58
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	2.03	0.58
6:CF:11:ASN:HB3	6:CF:14:LEU:HG	1.83	0.58
35:BA:552:G:H8	35:BA:552:G:H5'	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.18	0.58
35:BA:654(P):C:C2'	35:BA:654(Q):C:H5'	2.32	0.58
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.03	0.58
43:DJ:37:UNK:C	43:DJ:39:UNK:N	2.65	0.58
1:AA:219:C:H2'	1:AA:220:G:O4'	2.02	0.58
1:CA:8:A:N6	4:CD:209:ARG:HB2	2.17	0.58
1:CA:38:G:C2	1:CA:397:A:C2	2.92	0.58
35:DA:2506:U:H4'	35:DA:2507:C:OP1	2.02	0.58
35:DA:1308:A:H2'	35:DA:1309:G:O4'	2.02	0.58
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.85	0.58
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.23	0.58
24:AY:108:PHE:CE1	24:AY:118:SER:HB2	2.37	0.58
58:DZ:120:ILE:HB	58:DZ:171:ILE:O	2.03	0.58
35:BA:2646:C:OP2	35:BA:2732:G:H2'	2.02	0.58
53:BU:92:ARG:NH2	54:BV:11:GLN:H	2.01	0.58
35:DA:320:A:H4'	35:DA:322:A:C8	2.38	0.58
35:BA:274:G:H2'	35:BA:274:G:N3	2.18	0.58
35:BA:303:U:H2'	35:BA:304:G:C8	2.39	0.58
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.32	0.58
35:DA:2303:G:N2	35:DA:2313:C:O2	2.36	0.58
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.17	0.58
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.47	0.58
27:B2:3:LEU:HD22	27:B2:7:ARG:CZ	2.33	0.58
35:BA:1815:A:OP2	35:BA:1822:G:H5''	2.03	0.58
35:DA:448:U:O4	35:DA:583:G:H1'	2.03	0.58
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.10	0.58
44:BK:77:LEU:HD12	44:BK:107:ILE:CG2	2.32	0.58
1:CA:1441:G:H4'	1:CA:1442:G:C5	2.37	0.58
35:BA:192:C:C2'	35:BA:193:U:H5'	2.29	0.58
35:BA:2742:C:C2'	35:BA:2743:C:H5'	2.33	0.58
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.86	0.58
36:BB:88:C:H2'	36:BB:89:G:C8	2.38	0.58
1:CA:296:U:O2'	1:CA:297:G:H5'	2.03	0.58
2:AB:12:GLU:HA	2:AB:16:HIS:ND1	2.17	0.58
36:BB:105:A:P	58:BZ:72:ARG:HH12	2.26	0.58
35:DA:1516:C:C2'	35:DA:1517:G:H5''	2.34	0.58
24:CY:592:GLU:O	24:CY:592:GLU:HG2	2.04	0.58
35:BA:285:C:H2'	35:BA:286:C:H5'	1.86	0.58
42:DH:105:LEU:HD23	42:DH:113:VAL:HB	1.85	0.58
46:BN:18:ALA:CB	46:BN:21:LYS:HB2	2.33	0.58
49:BQ:108:GLY:O	49:BQ:109:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1404:C:H5'	1:CA:1405:G:OP2	2.03	0.58
35:BA:570:G:H2'	35:BA:2030:A:C5	2.39	0.58
35:BA:2454:G:C2'	35:BA:2455:G:H5'	2.32	0.58
1:CA:999:C:H2'	1:CA:1000:U:C6	2.39	0.58
35:BA:16:G:O2'	35:BA:17:G:H5'	2.03	0.58
42:DH:86:GLU:HB2	42:DH:132:ARG:HB3	1.86	0.58
46:DN:126:PRO:O	46:DN:127:ASP:HB2	2.03	0.58
26:B1:26:ARG:HG3	26:B1:27:GLU:N	2.17	0.58
1:CA:992:U:H4'	1:CA:993:G:O5'	2.04	0.58
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.03	0.58
1:AA:99:U:H2'	1:AA:100:C:C6	2.38	0.58
3:CC:25:GLY:O	3:CC:27:LYS:N	2.35	0.58
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.85	0.58
24:CY:175:SER:O	24:CY:188:TYR:HD2	1.86	0.58
35:DA:198:C:H42	35:DA:248:G:H1	1.50	0.58
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	1.84	0.58
24:CY:628:ARG:HG2	24:CY:628:ARG:HH11	1.67	0.58
51:DS:51:ALA:HB3	51:DS:73:LEU:HD12	1.85	0.58
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.18	0.58
4:CD:17:VAL:HG12	4:CD:17:VAL:O	2.03	0.58
7:AG:82:GLY:HA3	23:AX:13:A:H2	1.69	0.58
7:CG:82:GLY:HA3	23:CX:13:A:H2	1.69	0.58
58:DZ:125:LEU:HD23	58:DZ:164:ALA:O	2.04	0.58
24:AY:431:LEU:CD2	24:AY:466:LEU:HD13	2.33	0.58
38:DD:34:VAL:C	38:DD:36:PRO:HD2	2.24	0.58
38:DD:61:LEU:HB3	38:DD:63:ARG:HH12	1.69	0.58
58:DZ:44:PHE:O	58:DZ:48:PHE:N	2.27	0.58
57:DY:39:VAL:HG12	57:DY:40:GLU:HG2	1.85	0.58
57:BY:94:LYS:HG3	57:BY:102:CYS:SG	2.43	0.58
33:D8:48:PHE:C	33:D8:49:VAL:HG22	2.23	0.58
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.18	0.58
30:D5:3:LYS:NZ	35:DA:2613:U:C2'	2.67	0.58
24:CY:174:PHE:HZ	24:CY:261:GLY:HA2	1.66	0.58
24:CY:259:PHE:HB2	24:CY:272:LEU:HD13	1.85	0.58
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.69	0.58
31:B6:15:GLU:CG	31:B6:47:THR:HG21	2.33	0.58
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.67	0.58
24:AY:273:LEU:O	24:AY:276:VAL:HB	2.04	0.58
27:D2:20:GLU:HG3	27:D2:21:LEU:N	2.18	0.58
35:DA:2307:G:C2	35:DA:2308:G:H5''	2.38	0.58
56:DX:35:THR:HG22	56:DX:37:THR:N	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:3:GLU:HG2	36:DB:40:U:C5	2.39	0.58
35:BA:2572:A:H5'	35:BA:2574:G:C4'	2.28	0.58
47:BO:47:ILE:CG2	47:BO:48:PRO:HD2	2.34	0.58
1:AA:393:A:O2'	1:AA:394:G:H5'	2.03	0.58
13:AM:90:LEU:O	13:AM:91:ARG:C	2.40	0.58
52:BT:83:ILE:HG13	52:BT:84:GLN:H	1.67	0.58
2:AB:223:ILE:HG23	2:AB:226:ARG:NH1	2.18	0.58
35:BA:2762:G:H8	35:BA:2762:G:H5'	1.69	0.58
52:DT:11:GLU:C	52:DT:13:ARG:H	2.06	0.58
15:CO:76:GLU:C	15:CO:78:TYR:H	2.07	0.58
38:BD:131:LEU:HD13	38:BD:136:ILE:HD11	1.86	0.58
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.34	0.58
13:AM:15:VAL:HG12	13:AM:45:VAL:CG2	2.33	0.58
25:B0:43:THR:O	25:B0:43:THR:HG23	2.03	0.58
12:AL:28:LYS:HE2	12:AL:33:ARG:HH12	1.68	0.58
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.03	0.58
35:DA:2461:C:H42	35:DA:2489:G:H1	1.51	0.58
24:AY:65:ILE:O	24:AY:65:ILE:HG12	2.02	0.58
52:DT:129:ARG:O	52:DT:129:ARG:CG	2.51	0.58
1:AA:630:G:O2'	1:AA:631:G:H5''	2.03	0.58
54:DV:81:TYR:C	54:DV:82:ARG:HD2	2.24	0.58
19:AS:21:GLU:HG3	19:AS:22:LEU:HD23	1.84	0.58
12:AL:47:LYS:HD2	12:AL:48:PRO:HD3	1.85	0.58
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.68	0.58
22:CV:5:G:O2'	22:CV:6:G:H5'	2.02	0.58
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.18	0.58
46:DN:18:ALA:CB	46:DN:21:LYS:HB2	2.33	0.58
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.03	0.58
51:BS:59:LYS:HG2	51:BS:60:GLY:N	2.18	0.58
24:AY:388:THR:HG23	24:AY:399:LEU:HD22	1.85	0.58
24:CY:448:GLN:HG3	24:CY:448:GLN:O	2.04	0.58
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.85	0.58
35:BA:2329:G:H2'	35:BA:2330:G:H8	1.68	0.58
13:CM:74:VAL:O	13:CM:77:ASN:HB2	2.02	0.58
57:BY:17:SER:OG	57:BY:18:GLY:N	2.36	0.58
2:AB:8:LYS:O	2:AB:11:LEU:N	2.36	0.58
34:B9:10:ILE:O	34:B9:11:CYS:HB3	2.04	0.58
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.03	0.58
35:BA:1662:C:H2'	35:BA:1663:C:C6	2.39	0.58
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.19	0.58
35:DA:2115:G:N3	35:DA:2117:A:N7	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2511:U:O3'	39:BE:123:ALA:HB3	2.04	0.58
40:DF:28:ILE:HG21	40:DF:116:ASP:HB2	1.85	0.58
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.85	0.58
35:DA:2577:A:C5'	35:DA:2578:G:H5'	2.33	0.58
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.19	0.58
24:AY:25:LYS:HB2	62:AY:703:GDP:O2B	2.04	0.58
35:DA:996:A:O3'	53:DU:92:ARG:HG2	2.04	0.58
24:AY:441:SER:O	24:AY:449:THR:HG23	2.02	0.58
31:B6:8:LYS:HE3	31:B6:25:LYS:CD	2.29	0.58
31:B6:54:ILE:CD1	35:BA:2420:C:H5'	2.33	0.58
1:AA:1004:A:H61	1:AA:1034:G:C2'	2.14	0.58
10:CJ:32:ALA:HB3	10:CJ:78:ASN:HD21	1.67	0.58
35:BA:1059:G:H4'	44:BK:115:LEU:HD23	1.86	0.58
24:CY:224:ASP:OD2	24:CY:245:ALA:HB2	2.03	0.58
37:DC:138:LEU:HD22	37:DC:139:PRO:HD2	1.85	0.58
47:BO:60:ALA:HA	47:BO:87:ILE:CD1	2.33	0.58
35:DA:946:G:H2'	35:DA:947:G:C8	2.38	0.58
46:BN:46:VAL:O	46:BN:47:ALA:HB3	2.02	0.58
35:BA:651:G:H2'	35:BA:652:C:H5'	1.85	0.58
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.85	0.58
30:B5:48:GLU:O	30:B5:49:CYS:SG	2.62	0.58
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.04	0.58
52:BT:125:ARG:HH11	52:BT:125:ARG:CA	2.11	0.58
19:CS:33:THR:HG22	19:CS:49:ILE:HG22	1.86	0.58
34:B9:22:ARG:HB2	34:B9:24:TYR:HE1	1.68	0.58
30:D5:48:GLU:O	30:D5:49:CYS:CB	2.50	0.58
5:CE:60:TYR:CE1	5:CE:64:ARG:NH2	2.71	0.58
36:BB:87:G:H1	36:BB:91:C:H42	1.51	0.58
25:D0:43:THR:HG22	35:DA:2331:G:O2'	2.04	0.58
46:BN:87:LEU:HD21	46:BN:98:VAL:HG13	1.85	0.58
12:CL:53:ARG:NH1	12:CL:92:ASP:OD2	2.36	0.58
38:DD:26:LYS:O	38:DD:27:THR:HG22	2.03	0.58
1:AA:1124:G:H5'	10:AJ:35:SER:HB2	1.86	0.58
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.24	0.58
20:AT:88:VAL:O	20:AT:92:LEU:HG	2.04	0.58
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.04	0.58
25:B0:73:GLY:C	25:B0:75:LEU:H	2.06	0.58
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.86	0.58
6:CF:4:TYR:HE1	6:CF:92:LYS:HD2	1.69	0.58
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.38	0.58
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.03	0.58
1:AA:925:G:H5'	1:AA:926:G:OP1	2.03	0.58
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.18	0.58
35:BA:2603:G:O2'	35:BA:2604:U:H5'	2.04	0.58
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.02	0.58
35:BA:78:A:O2'	35:BA:79:G:H5'	2.03	0.58
35:DA:292:C:O2'	35:DA:293:U:H5'	2.03	0.58
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.67	0.58
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.19	0.58
35:DA:200:U:H2'	35:DA:201:C:H5'	1.85	0.58
35:DA:680:G:H2'	35:DA:681:G:C8	2.38	0.58
35:DA:1242:A:C6	48:DP:8:PRO:HG2	2.39	0.58
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.19	0.58
53:DU:83:LEU:HD12	53:DU:83:LEU:N	2.18	0.58
24:AY:468:ARG:C	24:AY:470:PHE:H	2.07	0.58
33:B8:10:ALA:O	33:B8:14:VAL:HG12	2.04	0.58
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.04	0.58
39:DE:34:VAL:HG11	39:DE:78:LEU:HD22	1.84	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:CD1	2.34	0.58
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.18	0.58
57:DY:61:ILE:HG12	57:DY:62:GLU:N	2.19	0.58
35:DA:2742:C:C2'	35:DA:2743:C:H5'	2.33	0.58
36:BB:91:C:O2'	36:BB:92:C:H5'	2.03	0.58
35:DA:2629:A:N3	35:DA:2629:A:H2'	2.18	0.58
9:CI:79:LEU:CD1	9:CI:83:ARG:HD2	2.34	0.58
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.03	0.58
19:AS:9:VAL:O	19:AS:9:VAL:CG1	2.52	0.58
40:DF:163:VAL:O	40:DF:166:ALA:HB3	2.04	0.58
55:DW:59:VAL:CG1	55:DW:59:VAL:O	2.51	0.58
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.68	0.58
1:CA:191:G:H1'	20:CT:105:SER:HA	1.85	0.58
36:DB:112:U:H2'	36:DB:113:G:C8	2.35	0.58
50:DR:12:ARG:HH11	50:DR:12:ARG:HG3	1.69	0.58
38:BD:147:LEU:HD13	38:BD:155:LEU:CD1	2.33	0.58
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.19	0.58
58:BZ:153:SER:C	58:BZ:155:LEU:HD23	2.24	0.58
3:CC:130:VAL:HG21	3:CC:157:ILE:HG23	1.86	0.58
32:D7:4:THR:HB	35:DA:788:A:O2'	2.03	0.58
35:BA:1638:C:H2'	35:BA:1639:U:O4'	2.02	0.58
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.84	0.58
1:AA:45:U:H2'	1:AA:46:G:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:314:PHE:HD1	24:AY:315:LYS:HB2	1.68	0.58
24:CY:637:ARG:HH11	24:CY:637:ARG:HG3	1.69	0.58
46:DN:102:ALA:O	46:DN:106:MET:HE2	2.03	0.58
35:BA:572:A:C2	35:BA:2033:A:C2	2.92	0.58
35:BA:2303:G:N2	35:BA:2313:C:O2	2.36	0.58
24:CY:17:ILE:H	24:CY:17:ILE:CD1	2.16	0.58
35:BA:1043:C:C3'	35:BA:1044:G:H5''	2.34	0.58
33:B8:25:MET:O	33:B8:47:LYS:HG2	2.03	0.58
33:B8:50:LEU:O	33:B8:52:LYS:N	2.33	0.58
57:DY:88:LYS:HD2	57:DY:88:LYS:N	2.19	0.58
50:DR:99:LYS:N	50:DR:99:LYS:CD	2.58	0.58
40:DF:40:GLN:OE1	40:DF:184:TYR:HB2	2.04	0.58
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.34	0.58
35:DA:2170:A:H5''	37:DC:135:ARG:HH21	1.67	0.58
24:CY:36:THR:HB	24:CY:72:CYS:HB2	1.85	0.58
35:BA:448:U:O4	35:BA:583:G:H1'	2.03	0.58
48:DP:30:THR:O	48:DP:33:ARG:N	2.26	0.58
48:DP:97:PRO:HD3	48:DP:126:VAL:O	2.04	0.58
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.38	0.58
38:BD:259:THR:O	38:BD:260:ARG:C	2.41	0.58
6:CF:37:VAL:HG12	6:CF:38:GLU:O	2.04	0.58
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.69	0.58
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.39	0.58
39:BE:144:ARG:O	39:BE:145:LYS:O	2.21	0.58
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.03	0.58
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.85	0.58
35:BA:2815:C:H2'	35:BA:2816:C:H6	1.68	0.58
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.38	0.58
58:DZ:155:LEU:HD23	58:DZ:155:LEU:N	2.18	0.58
6:CF:33:TYR:HA	6:CF:71:ARG:HH21	1.69	0.58
30:D5:36:CYS:SG	30:D5:49:CYS:SG	3.01	0.58
25:D0:43:THR:O	25:D0:43:THR:HG23	2.03	0.58
35:BA:1668:A:N6	35:BA:1676:A:H61	2.01	0.58
35:BA:2629:A:N3	35:BA:2629:A:H2'	2.17	0.58
38:BD:131:LEU:N	38:BD:131:LEU:CD1	2.67	0.58
25:B0:49:LYS:O	25:B0:51:VAL:HG23	2.04	0.58
58:BZ:144:LEU:HD22	58:BZ:144:LEU:N	2.19	0.58
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.69	0.58
35:DA:1578:U:C2'	35:DA:1579:A:H5''	2.32	0.58
36:DB:115:G:H2'	36:DB:116:G:H8	1.68	0.58
35:DA:1516:C:O2'	35:DA:1517:G:H5''	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:225:GLU:O	24:AY:228:MET:HB3	2.04	0.58
55:BW:17:VAL:O	55:BW:20:VAL:HG22	2.04	0.58
24:AY:438:PHE:HB2	24:AY:452:SER:O	2.04	0.58
35:DA:850:C:O2'	35:DA:851:U:H5'	2.03	0.58
1:CA:630:G:C2'	1:CA:631:G:C5'	2.81	0.58
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.24	0.58
35:DA:175:G:O2'	35:DA:176:G:H5'	2.03	0.58
10:AJ:18:ALA:O	10:AJ:20:ALA:N	2.37	0.58
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.19	0.58
35:DA:787:U:OP1	35:DA:1780:A:N6	2.37	0.58
42:BH:28:GLY:HA3	42:BH:79:VAL:CG2	2.34	0.58
40:BF:6:VAL:H	40:BF:125:LEU:HD21	1.69	0.58
1:AA:513:C:O2'	1:AA:514:C:H5'	2.04	0.58
21:CU:6:ARG:NH2	21:CU:15:ARG:NH2	2.51	0.58
57:BY:17:SER:HB2	57:BY:71:LYS:HD2	1.85	0.58
35:DA:2097:C:H2'	35:DA:2098:U:C6	2.38	0.58
35:BA:529:A:H4'	35:BA:530:G:O5'	2.04	0.58
1:CA:52:G:O2'	1:CA:53:A:H5'	2.03	0.58
35:DA:206:U:H2'	35:DA:206:U:O2	2.03	0.58
52:BT:26:ASP:OD2	52:BT:26:ASP:C	2.42	0.58
35:BA:1794:U:O2'	35:BA:1795:C:H5'	2.03	0.58
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.04	0.58
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.04	0.58
1:CA:405:U:H3'	1:CA:406:G:H5'	1.85	0.58
46:BN:102:ALA:O	46:BN:106:MET:HE2	2.04	0.58
49:DQ:39:PRO:HB3	49:DQ:99:PRO:HD3	1.86	0.58
35:BA:2097:C:H2'	35:BA:2098:U:H6	1.68	0.58
35:BA:2649:U:O2'	35:BA:2650:U:H5'	2.04	0.58
41:BG:119:GLY:HA3	41:BG:181:ARG:H	1.69	0.58
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.04	0.58
1:CA:1410:G:H1	1:CA:1490:C:H42	1.52	0.58
58:DZ:149:SER:HB2	58:DZ:172:ALA:O	2.04	0.58
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.86	0.58
31:B6:51:GLU:HG2	31:B6:52:VAL:H	1.67	0.58
57:BY:8:LYS:HE2	57:BY:72:VAL:HG23	1.85	0.58
29:D4:27:THR:O	29:D4:28:LYS:HB3	2.02	0.58
1:AA:1144:G:H21	1:AA:1146:A:H62	1.51	0.58
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.85	0.58
26:B1:80:LEU:CD2	26:B1:81:LYS:N	2.66	0.58
35:DA:624:C:H41	48:DP:107:LYS:HZ3	1.51	0.58
48:DP:84:ASN:C	48:DP:86:LYS:H	2.05	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:84:ASN:C	48:BP:86:LYS:N	2.57	0.58
39:BE:64:LYS:C	39:BE:66:HIS:H	2.07	0.58
39:DE:64:LYS:C	39:DE:66:HIS:H	2.06	0.58
19:AS:31:ILE:HG23	19:AS:49:ILE:HG23	1.86	0.58
35:BA:2297:C:O2'	35:BA:2298:A:H5'	2.04	0.58
10:AJ:55:LYS:H	10:AJ:55:LYS:HE3	1.67	0.58
58:DZ:17:ALA:HA	58:DZ:20:ARG:HG2	1.85	0.58
44:BK:7:VAL:O	44:BK:7:VAL:CG1	2.46	0.58
1:AA:960:U:C5	1:AA:1225:A:C8	2.92	0.58
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.04	0.58
25:D0:51:VAL:HG21	25:D0:79:VAL:O	2.03	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.19	0.58
35:BA:621:A:H2'	35:BA:622:G:C5'	2.31	0.58
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.33	0.58
40:BF:158:THR:HG21	40:BF:163:VAL:HB	1.86	0.58
24:CY:119:GLU:C	24:CY:120:THR:HG1	2.07	0.58
35:BA:2122:U:H1'	37:BC:167:ASP:OD2	2.04	0.58
53:DU:26:GLY:O	53:DU:28:ARG:N	2.37	0.58
35:BA:2453:A:H2'	35:BA:2454:G:H8	1.69	0.58
35:BA:848:G:C2	35:BA:933:A:H1'	2.39	0.58
24:AY:605:ILE:CD1	24:AY:677:GLN:HG2	2.34	0.58
36:DB:20:C:H2'	36:DB:21:G:H5'	1.85	0.58
24:CY:415:PRO:HA	24:CY:474:ALA:HB2	1.84	0.58
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.03	0.58
24:CY:296:GLY:O	24:CY:297:GLU:HB3	2.04	0.58
35:BA:443:A:H3'	40:BF:45:ARG:HH21	1.68	0.58
35:BA:784:A:H5''	38:BD:227:ASN:ND2	2.19	0.58
35:DA:1068:G:N2	35:DA:1096:A:H5'	2.19	0.58
1:AA:992:U:H4'	1:AA:993:G:O5'	2.04	0.58
45:BL:90:UNK:C	45:BL:92:UNK:H	2.16	0.58
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.39	0.58
35:DA:2647:U:H2'	35:DA:2648:C:C6	2.39	0.58
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.19	0.58
35:DA:529:A:H4'	35:DA:530:G:O5'	2.04	0.58
24:CY:212:TYR:HA	24:CY:215:LYS:HD2	1.84	0.58
24:AY:632:LEU:HD12	24:AY:645:ALA:HA	1.85	0.58
48:DP:135:LEU:HD13	48:DP:135:LEU:O	2.03	0.58
29:B4:25:TYR:O	29:B4:26:SER:HB3	2.03	0.57
41:BG:180:PHE:O	41:BG:181:ARG:C	2.41	0.57
24:CY:458:HIS:O	24:CY:461:ILE:HG13	2.02	0.57
24:CY:25:LYS:NZ	24:CY:86:GLY:HA2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.33	0.57
22:AW:7:G:H3'	22:AW:8:U:C5'	2.30	0.57
33:B8:14:VAL:CG2	33:B8:22:VAL:HG13	2.34	0.57
58:DZ:67:LEU:N	58:DZ:67:LEU:HD12	2.18	0.57
57:DY:12:THR:HG22	57:DY:75:ILE:HG21	1.86	0.57
57:DY:91:GLU:O	57:DY:92:ASN:HB2	2.04	0.57
48:DP:47:ASP:CB	48:DP:51:PHE:HB2	2.34	0.57
5:AE:101:ILE:CD1	5:AE:119:LEU:HA	2.26	0.57
30:B5:3:LYS:HZ2	30:B5:5:PRO:HB2	1.69	0.57
24:CY:156:ARG:HB2	24:CY:157:LEU:HD23	1.86	0.57
51:BS:34:HIS:NE2	51:BS:54:LEU:HB3	2.19	0.57
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.37	0.57
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.03	0.57
58:DZ:109:ALA:C	58:DZ:111:VAL:H	2.05	0.57
1:AA:1392:G:N2	1:AA:1502:A:H8	2.01	0.57
39:BE:111:ARG:HA	50:BR:2:ARG:CB	2.29	0.57
39:DE:47:VAL:CG1	39:DE:48:GLN:H	2.12	0.57
51:DS:54:LEU:O	51:DS:54:LEU:HD13	2.03	0.57
1:AA:1442:G:C5	1:AA:1442(B):A:H2	2.21	0.57
9:AI:114:TYR:HE1	10:AJ:60:ARG:N	1.97	0.57
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.39	0.57
2:AB:220:ASP:O	2:AB:223:ILE:N	2.35	0.57
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.34	0.57
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.17	0.57
26:B1:5:CYS:O	26:B1:9:GLY:HA2	2.03	0.57
52:BT:55:ASN:N	52:BT:59:THR:CG2	2.66	0.57
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.85	0.57
15:CO:74:ASP:C	15:CO:76:GLU:H	2.08	0.57
34:D9:34:GLN:O	34:D9:35:ARG:HB2	2.04	0.57
39:DE:44:TYR:O	39:DE:45:THR:HB	2.04	0.57
35:DA:1558:A:H4'	35:DA:1559:G:O5'	2.04	0.57
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.18	0.57
4:CD:57:ARG:HG2	4:CD:57:ARG:HH11	1.69	0.57
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.68	0.57
35:BA:120:U:H5'	35:BA:121:G:OP1	2.03	0.57
58:BZ:29:TYR:CB	58:BZ:34:ASN:HB2	2.33	0.57
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.34	0.57
1:CA:1375:A:H5'	1:CA:1376:U:OP2	2.04	0.57
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.56	0.57
35:BA:1717:G:C2'	35:BA:1718:G:H5''	2.34	0.57
35:DA:2556:C:H2'	35:DA:2557:G:O4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:101:ARG:NE	39:DE:171:GLU:HB2	2.19	0.57
24:CY:614:GLU:HA	24:CY:617:MET:HB2	1.84	0.57
57:BY:17:SER:CB	57:BY:71:LYS:HD2	2.34	0.57
1:AA:122:G:O2'	1:AA:123:C:H5'	2.04	0.57
37:BC:57:GLN:HE21	37:BC:205:ALA:HA	1.68	0.57
45:BL:113:UNK:HA	45:BL:117:UNK:O	2.03	0.57
17:CQ:53:LEU:HD21	17:CQ:85:VAL:HG11	1.85	0.57
1:AA:677:U:H3	1:AA:713:G:H22	1.50	0.57
6:CF:9:VAL:HB	6:CF:87:ARG:HB2	1.86	0.57
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.03	0.57
35:DA:1473:G:H2'	35:DA:1474:C:O4'	2.04	0.57
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.68	0.57
24:CY:25:LYS:HZ3	24:CY:86:GLY:HA2	1.68	0.57
24:AY:112:GLN:O	24:AY:115:GLU:HB3	2.05	0.57
58:DZ:171:ILE:HG13	58:DZ:172:ALA:N	2.19	0.57
53:DU:92:ARG:NH2	54:DV:11:GLN:H	2.01	0.57
57:DY:25:GLY:HA3	57:DY:39:VAL:CG1	2.34	0.57
40:DF:148:LEU:HD23	40:DF:191:ARG:NH1	2.19	0.57
41:DG:52:ILE:HG22	41:DG:54:GLU:H	1.69	0.57
31:D6:45:LYS:HG2	35:DA:2371:G:H5''	1.86	0.57
8:CH:104:ARG:HB3	8:CH:108:GLY:H	1.69	0.57
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.68	0.57
3:CC:154:SER:O	3:CC:165:THR:HA	2.03	0.57
48:BP:114:ILE:O	48:BP:130:PHE:HA	2.03	0.57
44:BK:21:PRO:HA	44:BK:23:VAL:N	2.19	0.57
35:BA:2317:C:H2'	35:BA:2318:G:C5'	2.33	0.57
2:AB:235:SER:O	2:AB:237:ALA:N	2.31	0.57
2:CB:223:ILE:HG23	2:CB:226:ARG:NH1	2.19	0.57
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.18	0.57
36:DB:103:G:N2	58:DZ:73:GLN:HE22	1.95	0.57
26:B1:6:GLU:OE1	26:B1:61:ARG:N	2.36	0.57
46:DN:62:VAL:HG13	46:DN:62:VAL:O	2.03	0.57
42:DH:148:ILE:O	42:DH:151:ILE:HG12	2.05	0.57
47:DO:26:LYS:HB3	47:DO:30:ALA:CB	2.35	0.57
22:CW:25:U:O2'	22:CW:26:C:H5'	2.04	0.57
42:BH:19:VAL:O	42:BH:20:ALA:HB2	2.04	0.57
1:AA:1270:C:H4'	1:AA:1313:U:O2'	2.03	0.57
54:BV:81:TYR:C	54:BV:82:ARG:HD2	2.24	0.57
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.68	0.57
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.34	0.57
24:AY:680:PRO:O	24:AY:682:GLN:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:16:G:H2'	35:BA:17:G:H8	1.68	0.57
49:DQ:97:VAL:HG21	49:DQ:103:MET:HE3	1.85	0.57
32:B7:4:THR:HB	35:BA:788:A:O2'	2.03	0.57
54:BV:35:LEU:O	54:BV:37:VAL:N	2.36	0.57
40:DF:6:VAL:H	40:DF:125:LEU:HD21	1.69	0.57
37:DC:4:HIS:ND1	37:DC:8:TYR:CE2	2.72	0.57
35:DA:1036:G:OP2	42:DH:59:ARG:NH1	2.37	0.57
35:BA:1942:C:H3'	35:BA:1943:U:H5''	1.86	0.57
35:BA:1943:U:H4'	35:BA:1944:U:OP1	2.03	0.57
35:DA:1835:G:H1'	35:DA:1931:U:O2	2.04	0.57
21:AU:6:ARG:NH2	21:AU:15:ARG:NH2	2.52	0.57
41:BG:126:ASP:OD1	41:BG:130:ASN:HB2	2.04	0.57
53:DU:70:ARG:HA	53:DU:74:LEU:O	2.04	0.57
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.69	0.57
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.85	0.57
35:BA:1428:C:N4	35:BA:1569:A:H3'	2.19	0.57
32:D7:35:ARG:HG2	32:D7:35:ARG:HH11	1.69	0.57
13:AM:119:GLY:HA2	22:AV:29:G:OP1	2.03	0.57
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.86	0.57
35:DA:2219:G:O2'	35:DA:2220:G:H5'	2.04	0.57
1:CA:219:C:H2'	1:CA:220:G:O4'	2.03	0.57
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.38	0.57
40:DF:187:VAL:HG12	48:DP:7:ARG:NH2	2.19	0.57
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.34	0.57
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.87	0.57
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.69	0.57
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.85	0.57
57:DY:28:LYS:O	57:DY:38:ILE:HG22	2.04	0.57
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.18	0.57
31:D6:54:ILE:CD1	35:DA:2420:C:H5'	2.34	0.57
35:BA:1840:G:H1	35:BA:1902:C:H42	1.52	0.57
30:D5:3:LYS:HZ1	35:DA:2613:U:C2'	2.17	0.57
36:BB:49:C:H2'	36:BB:50:G:C8	2.39	0.57
51:BS:30:ARG:NH2	51:BS:62:LYS:HD2	2.19	0.57
48:DP:23:PRO:C	48:DP:33:ARG:CZ	2.73	0.57
48:BP:91:PHE:HZ	48:BP:100:LEU:HD11	1.69	0.57
34:D9:17:ILE:HG22	34:D9:18:ARG:N	2.19	0.57
26:B1:76:ARG:NH2	26:B1:95:LEU:HD22	2.20	0.57
36:DB:87:G:H1	36:DB:91:C:H42	1.52	0.57
36:DB:88:C:H2'	36:DB:89:G:C8	2.39	0.57
17:CQ:44:ALA:HA	17:CQ:71:PHE:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:145:VAL:HG12	38:DD:146:GLU:N	2.18	0.57
24:CY:99:ARG:HE	24:CY:128:TYR:CB	2.16	0.57
12:AL:53:ARG:NH1	12:AL:92:ASP:OD2	2.37	0.57
3:CC:131:ARG:NH2	3:CC:168:ALA:HB2	2.20	0.57
9:CI:8:GLY:CA	9:CI:79:LEU:HD12	2.34	0.57
1:CA:662:G:H2'	1:CA:663:A:H8	1.67	0.57
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.57
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.86	0.57
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.70	0.57
4:AD:162:LEU:HD11	4:AD:181:MET:CG	2.35	0.57
1:AA:1370:G:C2	1:AA:1371:G:C8	2.93	0.57
22:AW:3:C:H2'	22:AW:4:G:H5''	1.85	0.57
24:AY:496:LYS:HE2	24:AY:498:ILE:CD1	2.34	0.57
3:AC:134:ILE:HD11	3:AC:153:VAL:HG23	1.85	0.57
1:CA:165:C:O2'	1:CA:166:G:H5'	2.04	0.57
24:CY:355:LEU:HB3	24:CY:369:LEU:HD11	1.85	0.57
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.58	0.57
35:BA:328:U:H4'	57:BY:68:HIS:CD2	2.39	0.57
35:DA:321:G:C2	35:DA:341:G:H4'	2.39	0.57
35:BA:810:U:OP1	35:BA:1253:A:N7	2.38	0.57
1:AA:833:U:H2'	1:AA:834:C:C6	2.39	0.57
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.37	0.57
35:BA:2115:G:N3	35:BA:2117:A:N7	2.52	0.57
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.70	0.57
35:DA:2511:U:O3'	39:DE:123:ALA:HB3	2.05	0.57
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.04	0.57
35:BA:207:A:H2'	35:BA:208:C:O4'	2.02	0.57
8:CH:20:TYR:CE1	8:CH:76:PRO:HG2	2.39	0.57
32:D7:33:ARG:NH1	35:DA:467:G:OP1	2.37	0.57
28:B3:5:LYS:HE3	28:B3:34:GLU:OE1	2.04	0.57
41:DG:181:ARG:CZ	41:DG:181:ARG:HB2	2.33	0.57
25:B0:36:ILE:HG13	25:B0:36:ILE:O	2.04	0.57
37:BC:191:ARG:HH11	37:BC:191:ARG:HG3	1.68	0.57
1:CA:977:A:H2'	1:CA:978:A:H5'	1.86	0.57
29:B4:1:MET:HE2	41:BG:66:GLN:CD	2.25	0.57
46:BN:4:TYR:CD1	46:BN:4:TYR:N	2.72	0.57
31:B6:30:THR:HG22	31:B6:32:ASN:ND2	2.19	0.57
27:D2:38:GLN:HA	27:D2:41:ILE:CG2	2.34	0.57
38:BD:65:ILE:N	38:BD:65:ILE:HD13	2.19	0.57
35:BA:27:G:O2'	35:BA:28:A:H8	1.86	0.57
51:DS:28:VAL:CG1	51:DS:29:PHE:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:46:VAL:CG1	46:BN:47:ALA:H	2.13	0.57
1:AA:1490:C:H5'	1:AA:1490:C:H6	1.69	0.57
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.33	0.57
44:BK:8:VAL:HG12	44:BK:10:LEU:HG	1.86	0.57
49:DQ:2:LEU:HG	49:DQ:69:PHE:HE1	1.70	0.57
24:CY:635:GLU:OE2	24:CY:644:ARG:NH1	2.38	0.57
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.82	0.57
6:CF:69:GLU:H	6:CF:69:GLU:CD	2.07	0.57
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.40	0.57
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.82	0.57
42:DH:159:GLU:HA	42:DH:159:GLU:OE1	2.04	0.57
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.25	0.57
58:DZ:127:LYS:HE2	58:DZ:162:GLU:OE2	2.05	0.57
19:AS:21:GLU:HG3	19:AS:22:LEU:CD2	2.34	0.57
3:AC:14:ILE:O	3:AC:15:THR:HB	2.04	0.57
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.19	0.57
35:BA:958:U:H5'	49:BQ:14:ARG:HH11	1.69	0.57
24:AY:630:GLN:HG2	24:AY:630:GLN:O	2.04	0.57
49:BQ:27:VAL:H	49:BQ:137:TYR:HD2	1.53	0.57
37:BC:117:THR:HG22	37:BC:147:GLY:O	2.04	0.57
49:DQ:76:LYS:HB3	49:DQ:91:GLU:CG	2.34	0.57
16:CP:50:LYS:O	16:CP:51:VAL:HG23	2.04	0.57
35:BA:1943:U:O2'	35:BA:1944:U:O5'	2.17	0.57
6:AF:36:ARG:NH1	6:AF:36:ARG:HB3	2.19	0.57
13:AM:74:VAL:O	13:AM:77:ASN:HB2	2.03	0.57
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.40	0.57
35:BA:2097:C:H2'	35:BA:2098:U:C6	2.39	0.57
35:BA:1353:A:H2'	35:BA:1354:A:C8	2.39	0.57
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.87	0.57
35:BA:737:C:C2'	35:BA:738:G:H5'	2.35	0.57
35:BA:1473:G:H2'	35:BA:1474:C:O4'	2.04	0.57
35:BA:1949:G:H2'	35:BA:1950:G:C8	2.39	0.57
11:AK:79:SER:OG	11:AK:106:LYS:HD2	2.04	0.57
46:BN:82:LEU:HD23	46:BN:82:LEU:C	2.24	0.57
35:BA:2504:U:O5'	35:BA:2504:U:H6	1.87	0.57
50:DR:44:LEU:O	50:DR:44:LEU:HD13	2.04	0.57
53:BU:70:ARG:HA	53:BU:74:LEU:O	2.04	0.57
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.04	0.57
45:BL:79:UNK:C	45:BL:81:UNK:N	2.64	0.57
1:CA:415:A:H2'	1:CA:416:G:C8	2.40	0.57
40:DF:2:LYS:HG3	40:DF:25:PRO:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:66:GLY:O	48:DP:67:MET:HB3	2.04	0.57
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.35	0.57
38:BD:241:PRO:C	38:BD:242:ARG:HG3	2.24	0.57
24:CY:112:GLN:HG3	24:CY:115:GLU:HB3	1.85	0.57
1:CA:1237:C:OP1	1:CA:1238:A:H1'	2.05	0.57
51:BS:64:GLU:H	51:BS:64:GLU:CD	2.07	0.57
31:D6:18:ARG:HG3	31:D6:19:ARG:H	1.69	0.57
40:BF:8:GLN:NE2	40:BF:9:ILE:HB	2.20	0.57
24:CY:589:ALA:O	24:CY:593:ALA:HB2	2.03	0.57
24:AY:409:ILE:HD11	24:AY:654:GLY:CA	2.27	0.57
5:CE:15:ARG:HG3	5:CE:28:PHE:CE2	2.39	0.57
26:B1:86:SER:HB2	26:B1:90:ILE:CD1	2.35	0.57
35:DA:2453:A:H2'	35:DA:2454:G:H8	1.69	0.57
48:BP:112:LEU:O	48:BP:128:HIS:HB2	2.04	0.57
44:BK:24:GLY:H	44:BK:25:PRO:HD2	1.68	0.57
39:DE:34:VAL:O	39:DE:35:GLN:CB	2.53	0.57
52:BT:29:ARG:CG	52:BT:85:LYS:HA	2.33	0.57
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.17	0.57
49:BQ:55:VAL:HG13	49:BQ:56:ARG:N	2.18	0.57
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.15	0.57
29:B4:22:ILE:HG22	29:B4:23:GLU:N	2.19	0.57
1:AA:191:G:H1'	20:AT:105:SER:HA	1.86	0.57
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.40	0.57
35:DA:803:U:H2'	35:DA:804:A:H5'	1.86	0.57
40:DF:75:HIS:HE1	40:DF:82:ILE:HD11	1.69	0.57
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.04	0.57
32:D7:24:THR:HG23	32:D7:27:GLY:HA3	1.87	0.57
55:BW:36:LEU:HD11	55:BW:47:VAL:HG12	1.86	0.57
35:BA:1036:G:OP2	42:BH:59:ARG:NH1	2.38	0.57
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.37	0.57
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.40	0.57
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.24	0.57
1:CA:957:U:H2'	1:CA:959:A:OP2	2.04	0.57
48:DP:124:LYS:CD	48:DP:143:GLY:HA3	2.35	0.57
35:DA:1274:A:N3	35:DA:1297:C:H1'	2.19	0.57
24:AY:137:ASN:HD21	24:AY:263:ALA:CB	2.18	0.57
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.86	0.57
35:BA:2647:U:H2'	35:BA:2648:C:C6	2.39	0.57
1:AA:370:C:O2'	1:AA:371:G:H5'	2.04	0.57
35:DA:1248:G:C2	53:DU:3:ARG:HD2	2.38	0.57
35:BA:1322:A:OP1	55:BW:11:ARG:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:42:ASP:C	51:DS:44:LYS:H	2.08	0.57
2:CB:11:LEU:HD11	2:CB:217:ARG:NH2	2.19	0.57
35:DA:2504:U:H6	35:DA:2504:U:O5'	1.88	0.57
11:CK:79:SER:OG	11:CK:106:LYS:HD2	2.04	0.57
31:B6:27:LYS:HB3	31:B6:30:THR:HG22	1.87	0.57
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.35	0.57
57:BY:8:LYS:H	57:BY:8:LYS:HD2	1.68	0.57
38:BD:80:ALA:HB3	38:BD:94:LEU:HB3	1.87	0.57
35:DA:2230:G:H2'	35:DA:2231:C:H6	1.70	0.57
41:BG:133:LEU:HD12	41:BG:157:ILE:HB	1.87	0.57
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.24	0.57
51:BS:54:LEU:HD13	51:BS:54:LEU:O	2.04	0.57
51:BS:98:VAL:CG1	51:BS:100:ALA:HB2	2.35	0.57
50:BR:83:ILE:O	50:BR:87:TYR:HE2	1.87	0.57
49:DQ:62:GLY:O	58:DZ:178:GLU:HB2	2.03	0.57
26:D1:93:GLU:O	26:D1:95:LEU:N	2.36	0.57
35:BA:1301:A:H4'	35:BA:1302:A:OP1	2.04	0.57
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.46	0.57
35:DA:962:G:H2'	35:DA:963:U:O4'	2.05	0.57
44:DK:109:LYS:HA	44:DK:112:MET:HE2	1.85	0.57
33:D8:62:LEU:CD1	35:DA:242:G:H5"	2.32	0.57
35:BA:271(I):G:H3'	35:BA:271(J):C:H6	1.68	0.57
44:BK:112:MET:N	44:BK:113:PRO:HD2	2.20	0.57
2:AB:155:LEU:HD13	2:AB:155:LEU:C	2.24	0.57
39:DE:111:ARG:HA	50:DR:2:ARG:CB	2.31	0.57
20:AT:26:ASN:O	20:AT:30:LYS:HB2	2.04	0.57
54:BV:18:LEU:CD1	54:BV:19:LYS:H	2.17	0.57
24:AY:13:ARG:HB2	24:AY:79:ILE:HG12	1.87	0.57
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.04	0.57
1:CA:1325:C:H2'	1:CA:1326:C:C6	2.40	0.57
15:AO:74:ASP:C	15:AO:76:GLU:H	2.06	0.57
52:DT:55:ASN:N	52:DT:59:THR:CG2	2.63	0.57
23:AX:19:U:H2'	23:AX:20:U:C6	2.40	0.57
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.17	0.57
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.34	0.57
35:DA:2111:C:C2	35:DA:2147:G:N2	2.73	0.57
58:DZ:127:LYS:HZ3	58:DZ:127:LYS:HB3	1.68	0.57
35:DA:139(A):G:N2	56:DX:44:GLU:OE1	2.38	0.57
22:AV:71:C:O2	22:AV:71:C:C2'	2.53	0.57
35:BA:145:G:H2'	35:BA:146:G:C8	2.39	0.57
3:AC:119:ARG:O	3:AC:123:GLN:HG3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:260:G:H2'	1:CA:261:U:H6	1.70	0.57
49:BQ:27:VAL:O	49:BQ:28:ALA:HB3	2.04	0.57
46:BN:17:ASP:CG	46:BN:56:ASN:HB3	2.25	0.57
51:BS:59:LYS:CD	51:BS:61:ASN:HB2	2.34	0.57
40:BF:125:LEU:HD23	40:BF:125:LEU:N	2.18	0.57
49:BQ:97:VAL:HG21	49:BQ:103:MET:HE3	1.85	0.57
35:DA:35:G:O2'	35:DA:36:G:H5'	2.04	0.57
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.18	0.57
9:CI:41:VAL:HG12	9:CI:41:VAL:O	2.05	0.57
46:DN:82:LEU:HD23	46:DN:82:LEU:C	2.25	0.57
28:B3:11:SER:HB3	35:BA:988:A:P	2.45	0.57
29:B4:1:MET:HG3	41:BG:66:GLN:HG3	1.87	0.57
56:BX:12:VAL:O	56:BX:13:LEU:HB2	2.05	0.57
4:CD:11:LEU:O	4:CD:12:CYS:C	2.42	0.57
4:CD:8:VAL:HB	4:CD:21:LEU:CD1	2.34	0.57
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.85	0.57
24:AY:171:GLU:HG3	24:AY:172:ASP:H	1.70	0.57
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.35	0.57
57:DY:96:ILE:CG2	57:DY:99:CYS:HB3	2.34	0.57
35:DA:363(B):G:H2'	35:DA:363(C):G:C8	2.38	0.57
57:BY:73:ARG:O	57:BY:74:PRO:O	2.23	0.57
33:D8:7:HIS:HB3	33:D8:10:ALA:HB3	1.87	0.57
58:BZ:154:ASP:N	58:BZ:154:ASP:OD2	2.35	0.57
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.14	0.57
30:B5:3:LYS:HZ1	35:BA:2613:U:C2'	2.18	0.57
24:CY:146:LEU:HD11	24:CY:260:LEU:HD11	1.87	0.57
31:B6:45:LYS:HG2	35:BA:2371:G:H5''	1.86	0.57
31:B6:15:GLU:CB	31:B6:47:THR:HG21	2.34	0.57
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.13	0.57
48:DP:84:ASN:C	48:DP:86:LYS:N	2.58	0.57
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.40	0.57
35:BA:2307:G:C2	35:BA:2308:G:H5''	2.38	0.57
26:D1:23:LYS:CE	26:D1:28:GLY:HA3	2.26	0.57
39:DE:69:LYS:N	39:DE:69:LYS:HE2	2.19	0.57
35:DA:2317:C:H2'	35:DA:2318:G:C5'	2.31	0.57
29:D4:22:ILE:HG22	29:D4:23:GLU:N	2.20	0.57
13:CM:81:LEU:HD22	13:CM:81:LEU:N	2.20	0.57
44:DK:3:LYS:HB3	44:DK:29:GLN:HB3	1.85	0.57
52:DT:53:ARG:HH11	52:DT:53:ARG:CB	2.17	0.57
42:DH:83:TYR:O	42:DH:84:SER:HB3	2.05	0.57
49:DQ:27:VAL:H	49:DQ:137:TYR:HD2	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:33:ARG:C	53:BU:35:ALA:N	2.56	0.57
58:BZ:141:VAL:O	58:BZ:142:SER:HB3	2.03	0.57
35:DA:621:A:H2'	35:DA:622:G:C5'	2.33	0.57
35:DA:259:G:H21	35:DA:621:A:H8	1.51	0.57
35:DA:2464:C:HO2'	35:DA:2465:C:H6	1.52	0.57
38:BD:146:GLU:HB2	38:BD:189:CYS:HB3	1.87	0.57
35:BA:881:G:H2'	35:BA:882:G:H5'	1.86	0.57
35:BA:877:U:O2'	35:BA:878:A:H5''	2.05	0.57
4:CD:203:VAL:O	4:CD:206:PHE:HB3	2.05	0.57
42:BH:89:ILE:O	42:BH:89:ILE:HG13	2.05	0.57
1:AA:474:G:H2'	1:AA:475:G:C8	2.40	0.57
35:DA:328:U:H4'	57:DY:68:HIS:CD2	2.39	0.57
24:AY:604:PRO:HB2	24:AY:649:LEU:HD12	1.87	0.57
35:DA:1169:G:H1	35:DA:1180:C:H42	1.50	0.57
52:BT:51:ARG:O	52:BT:61:PHE:HA	2.03	0.57
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.20	0.57
35:BA:1614:A:H2'	35:BA:1615:C:H5'	1.86	0.57
35:DA:610:G:N2	35:DA:619:G:H1'	2.20	0.57
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.19	0.57
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.35	0.57
24:AY:210:ARG:O	24:AY:213:HIS:N	2.34	0.57
46:DN:4:TYR:CD1	46:DN:4:TYR:N	2.72	0.57
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.14	0.57
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.33	0.57
40:DF:167:ALA:CB	40:DF:173:VAL:HG11	2.23	0.57
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.53	0.57
30:B5:44:THR:O	30:B5:51:TYR:HE1	1.87	0.57
49:DQ:53:ALA:HA	49:DQ:56:ARG:HB2	1.86	0.57
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.19	0.57
36:BB:7:G:C3'	36:BB:8:U:H5''	2.34	0.57
2:CB:51:LEU:HD21	2:CB:201:ILE:HG23	1.87	0.57
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.05	0.57
58:BZ:23:LYS:CD	58:BZ:38:TYR:HE1	2.12	0.57
1:CA:1324:A:H2'	1:CA:1325:C:H6	1.68	0.57
52:DT:42:ILE:HD13	52:DT:83:ILE:HD13	1.87	0.57
49:BQ:44:ALA:N	49:BQ:45:GLN:HE21	2.02	0.57
37:DC:92:ALA:HB2	37:DC:154:ILE:HD13	1.85	0.57
42:BH:45:VAL:HA	42:BH:50:VAL:HG22	1.87	0.57
52:DT:10:VAL:C	52:DT:12:SER:N	2.58	0.57
46:BN:62:VAL:HG13	46:BN:62:VAL:O	2.05	0.57
49:DQ:27:VAL:HG21	49:DQ:134:ARG:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:27:VAL:O	49:DQ:28:ALA:HB3	2.04	0.57
24:CY:487:ILE:H	24:CY:487:ILE:HD13	1.68	0.57
35:BA:1669:A:H2'	35:BA:1670:C:H5'	1.86	0.57
51:BS:42:ASP:C	51:BS:44:LYS:H	2.07	0.57
50:DR:21:TYR:HB3	50:DR:47:PHE:CE2	2.39	0.57
35:DA:226:G:O2'	35:DA:227:A:C8	2.45	0.57
1:CA:624:C:H2'	1:CA:625:G:H8	1.69	0.57
35:DA:285:C:H2'	35:DA:286:C:H5'	1.86	0.57
34:B9:34:GLN:O	34:B9:35:ARG:HB2	2.03	0.57
4:CD:162:LEU:HD11	4:CD:181:MET:CG	2.34	0.57
51:DS:20:ARG:HA	51:DS:20:ARG:NE	2.19	0.57
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.26	0.57
37:DC:215:VAL:HG23	37:DC:225:ILE:HG12	1.86	0.57
35:DA:1774:C:O2	38:DD:11:PRO:HB2	2.04	0.57
24:AY:463:VAL:O	24:AY:467:LYS:HB3	2.05	0.57
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.86	0.57
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.40	0.57
1:AA:954:G:H2'	1:AA:955:U:C6	2.40	0.57
35:BA:1198:U:H2'	35:BA:1198:U:O2	2.03	0.57
17:CQ:7:THR:O	17:CQ:23:VAL:HG13	2.04	0.57
37:BC:185:LYS:HE3	37:BC:185:LYS:HA	1.87	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
1:CA:291:C:O2'	1:CA:292:G:H5'	2.04	0.57
27:B2:14:ARG:HH11	27:B2:14:ARG:HG3	1.69	0.57
35:DA:207:A:H2'	35:DA:208:C:O4'	2.03	0.57
35:BA:608:A:H2'	35:BA:609:A:C8	2.39	0.57
35:BA:764:A:N3	38:BD:213:ARG:NH1	2.53	0.57
35:BA:610:G:N2	35:BA:619:G:H1'	2.19	0.57
29:B4:37:SER:O	29:B4:38:LYS:HB2	2.05	0.57
41:BG:101:ILE:O	41:BG:104:GLU:HB3	2.05	0.57
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.04	0.57
24:CY:630:GLN:NE2	24:CY:646:PHE:CD2	2.72	0.57
46:BN:7:LYS:O	46:BN:9:VAL:N	2.37	0.57
57:BY:12:THR:HG22	57:BY:75:ILE:HG21	1.87	0.57
33:D8:32:LEU:HB3	33:D8:36:LYS:NZ	2.20	0.57
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.24	0.57
37:DC:139:PRO:HA	37:DC:145:THR:CG2	2.35	0.57
47:DO:60:ALA:HA	47:DO:87:ILE:HD13	1.86	0.57
31:D6:15:GLU:CD	31:D6:44:ARG:HH12	2.08	0.57
31:D6:37:ARG:O	31:D6:48:VAL:O	2.23	0.57
58:DZ:110:GLY:O	58:DZ:114:GLY:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:273:LEU:HA	24:AY:276:VAL:HG23	1.85	0.57
27:D2:69:ARG:NH2	35:DA:111:A:H5''	2.12	0.57
35:BA:947:G:H2'	35:BA:948:G:C8	2.40	0.57
35:DA:1258:C:O4'	40:DF:84:VAL:HG21	2.05	0.57
39:BE:69:LYS:N	39:BE:69:LYS:HE2	2.20	0.57
35:DA:2850:A:H5'	35:DA:2868:A:H2	1.69	0.57
35:BA:2850:A:H5'	35:BA:2868:A:H2	1.70	0.57
22:AW:28:U:H2'	22:AW:29:C:H6	1.69	0.57
49:DQ:44:ALA:N	49:DQ:45:GLN:HE21	2.02	0.57
35:DA:6:A:N3	35:DA:6:A:H2'	2.18	0.57
52:BT:132:LYS:HG2	52:BT:133:GLU:N	2.20	0.57
19:AS:9:VAL:HG23	29:B4:53:GLU:OE2	2.04	0.57
35:BA:226:G:O2'	35:BA:227:A:C8	2.47	0.57
35:DA:621:A:C2'	35:DA:622:G:H5'	2.35	0.57
35:BA:1516:C:O2'	35:BA:1517:G:H5''	2.04	0.57
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.69	0.57
35:DA:674:G:C1'	40:DF:74:ARG:HD3	2.33	0.57
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.86	0.57
18:CR:74:ARG:HD3	18:CR:81:PHE:HD2	1.70	0.57
24:AY:343:ASN:ND2	24:AY:345:THR:N	2.52	0.57
49:BQ:12:GLN:NE2	49:BQ:73:PRO:HD2	2.20	0.57
27:D2:59:ARG:O	27:D2:62:THR:N	2.38	0.57
24:CY:616:TYR:HB2	24:CY:663:THR:HG22	1.87	0.57
24:CY:680:PRO:O	24:CY:682:GLN:N	2.36	0.57
50:DR:18:LEU:HD23	50:DR:18:LEU:C	2.24	0.57
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.39	0.57
38:DD:72:LYS:HB3	38:DD:75:ILE:HB	1.86	0.57
48:BP:124:LYS:CD	48:BP:143:GLY:HA3	2.35	0.57
54:BV:2:PHE:CE1	54:BV:13:ARG:NH1	2.73	0.57
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.04	0.57
35:DA:455:C:N3	35:DA:472:A:H2'	2.20	0.57
6:AF:9:VAL:HB	6:AF:87:ARG:HB2	1.85	0.57
19:AS:53:ASN:O	19:AS:55:LYS:N	2.38	0.57
1:AA:67:C:H2'	1:AA:68:G:C8	2.40	0.57
43:DJ:10:UNK:O	43:DJ:11:UNK:CB	2.53	0.57
1:AA:689:C:P	11:AK:46:GLY:HA3	2.45	0.57
35:BA:1416:G:HO2'	35:BA:1417:C:H5	1.52	0.57
13:CM:33:ALA:HA	13:CM:59:TYR:HE2	1.70	0.57
26:D1:4:VAL:HG23	26:D1:10:LYS:O	2.04	0.57
24:AY:141:LYS:O	24:AY:144:ALA:HB2	2.05	0.57
24:AY:209:ALA:O	24:AY:210:ARG:C	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:65:ILE:HG12	53:BU:96:ALA:HB1	1.87	0.57
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.20	0.57
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.38	0.57
57:BY:74:PRO:HG3	57:BY:83:THR:HG22	1.85	0.57
30:B5:3:LYS:NZ	35:BA:2613:U:H2'	2.20	0.57
5:CE:79:GLU:HB3	5:CE:93:PRO:HD2	1.87	0.57
8:CH:104:ARG:O	8:CH:106:GLY:N	2.38	0.57
35:DA:1301:A:HO2'	35:DA:1302:A:H2'	1.69	0.57
48:BP:12:ALA:HB1	48:BP:16:ARG:HB3	1.87	0.57
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.25	0.57
1:AA:687:A:H62	1:AA:703:G:H1'	1.69	0.57
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.52	0.57
35:DA:1141:U:H5''	46:DN:63:THR:HG23	1.85	0.57
2:CB:223:ILE:C	2:CB:225:ALA:H	2.08	0.57
25:D0:45:PHE:O	25:D0:59:LEU:HD11	2.05	0.57
6:CF:67:MET:SD	6:CF:75:LEU:HD22	2.44	0.57
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.57
35:DA:203:C:C3'	35:DA:204:A:H5''	2.30	0.57
44:DK:21:PRO:HA	44:DK:23:VAL:N	2.19	0.57
35:BA:622:G:O2'	35:BA:623:G:H5'	2.05	0.57
58:BZ:107:THR:HG23	58:BZ:111:VAL:CB	2.35	0.57
38:BD:26:LYS:O	38:BD:27:THR:HG22	2.05	0.57
55:DW:36:LEU:HD11	55:DW:47:VAL:HG12	1.87	0.57
24:AY:379:GLY:O	24:AY:380:LEU:HB2	2.04	0.57
19:AS:64:GLU:O	29:B4:48:ARG:NH2	2.37	0.57
24:CY:330:VAL:HG12	24:CY:331:TYR:H	1.70	0.57
1:AA:630:G:C2'	1:AA:631:G:C5'	2.82	0.57
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.68	0.57
20:AT:47:GLY:O	20:AT:49:ALA:N	2.32	0.57
58:DZ:127:LYS:CB	58:DZ:127:LYS:NZ	2.68	0.57
24:AY:99:ARG:NE	24:AY:128:TYR:HB2	2.20	0.57
46:DN:17:ASP:CG	46:DN:56:ASN:HB3	2.26	0.57
24:AY:395:PRO:O	24:AY:397:VAL:HG13	2.05	0.57
49:BQ:76:LYS:HB3	49:BQ:91:GLU:CG	2.35	0.57
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.03	0.57
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.67	0.57
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.04	0.57
7:CG:38:LEU:O	7:CG:41:ARG:HB2	2.05	0.57
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.40	0.57
37:DC:185:LYS:HA	37:DC:185:LYS:HE3	1.86	0.57
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2769:C:O2'	35:DA:2770:G:H5'	2.05	0.57
35:BA:1248:G:C2	53:BU:3:ARG:HD2	2.40	0.57
35:BA:889:C:H2'	35:BA:890:A:O4'	2.04	0.57
1:CA:1416:G:H2'	1:CA:1417:G:O4'	2.05	0.57
41:BG:91:ARG:C	41:BG:91:ARG:CD	2.73	0.56
10:AJ:33:GLN:N	10:AJ:75:ILE:HD11	2.20	0.56
4:AD:17:VAL:O	4:AD:17:VAL:HG12	2.05	0.56
35:DA:1043:C:C3'	35:DA:1044:G:H5''	2.34	0.56
40:BF:152:GLU:O	40:BF:153:SER:C	2.43	0.56
53:DU:76:TYR:C	53:DU:76:TYR:CD2	2.78	0.56
35:BA:1109:C:H5'	35:BA:1110:G:OP2	2.04	0.56
33:D8:25:MET:O	33:D8:47:LYS:HG2	2.05	0.56
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.05	0.56
57:BY:88:LYS:HD2	57:BY:88:LYS:N	2.19	0.56
35:DA:1485:G:C1'	35:DA:1505:C:H42	2.17	0.56
35:DA:1301:A:H4'	35:DA:1302:A:OP1	2.04	0.56
1:AA:1057:G:N2	1:AA:1204:A:H1'	2.20	0.56
48:BP:115:LEU:HD23	48:BP:115:LEU:H	1.70	0.56
48:BP:146:VAL:O	48:BP:148:LEU:HD12	2.05	0.56
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.87	0.56
44:BK:77:LEU:H	44:BK:77:LEU:CD2	2.09	0.56
35:BA:2754:U:H2'	35:BA:2755:C:H5'	1.87	0.56
35:BA:945:A:O2'	35:BA:946:G:H4'	2.05	0.56
39:BE:47:VAL:CG1	39:BE:48:GLN:H	2.13	0.56
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.07	0.56
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.34	0.56
37:DC:118:PRO:HB2	37:DC:148:PHE:CZ	2.41	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.39	0.56
35:DA:2657:A:O2'	42:DH:160:LYS:HE3	2.05	0.56
52:BT:126:ALA:C	52:BT:128:GLU:H	2.08	0.56
35:BA:910:A:H62	49:BQ:12:GLN:HA	1.68	0.56
27:B2:25:VAL:O	27:B2:27:GLU:N	2.37	0.56
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.40	0.56
35:DA:120:U:H5'	35:DA:121:G:OP1	2.04	0.56
42:DH:89:ILE:O	42:DH:89:ILE:HG13	2.05	0.56
24:AY:495:GLY:O	24:AY:509:HIS:HA	2.05	0.56
35:BA:2556:C:H2'	35:BA:2557:G:O4'	2.05	0.56
28:D3:4:LEU:O	28:D3:36:VAL:HA	2.04	0.56
35:DA:1718:G:H5'	35:DA:1718:G:C8	2.40	0.56
35:DA:784:A:H5''	38:DD:227:ASN:HD21	1.70	0.56
18:AR:44:LEU:CD2	18:AR:79:LEU:HD22	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:210:GLY:O	38:DD:212:SER:N	2.36	0.56
47:BO:97:ARG:HH11	47:BO:97:ARG:HG3	1.70	0.56
35:BA:1847:A:H3'	35:BA:1848:A:C5'	2.35	0.56
55:BW:25:ARG:NH2	55:BW:74:ALA:O	2.38	0.56
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.68	0.56
13:CM:121:LYS:HD3	13:CM:121:LYS:N	2.20	0.56
29:D4:37:SER:O	29:D4:38:LYS:HB2	2.04	0.56
35:BA:1093:G:H21	35:BA:1098:A:H62	1.53	0.56
38:DD:79:VAL:O	38:DD:113:VAL:HG13	2.04	0.56
43:BJ:56:UNK:CB	43:BJ:83:UNK:HA	2.34	0.56
1:CA:833:U:H2'	1:CA:834:C:C6	2.40	0.56
38:BD:23:GLU:HA	38:BD:23:GLU:OE1	2.04	0.56
1:AA:449:C:O2	16:AP:42:ARG:HD2	2.05	0.56
24:AY:113:GLY:C	24:AY:115:GLU:N	2.48	0.56
23:CX:11:U:O2	23:CX:11:U:H2'	2.03	0.56
24:AY:435:ASP:OD1	61:AY:702:FUA:H22	2.05	0.56
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.21	0.56
40:BF:167:ALA:CB	40:BF:173:VAL:HG11	2.25	0.56
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.05	0.56
24:CY:147:TRP:O	24:CY:151:ARG:HG3	2.06	0.56
1:CA:1057:G:N2	1:CA:1204:A:H1'	2.20	0.56
48:BP:127:ALA:O	48:BP:148:LEU:HD11	2.05	0.56
35:BA:2305:A:C4	41:BG:154:GLY:HA3	2.40	0.56
44:BK:106:GLU:CA	44:BK:109:LYS:HD3	2.30	0.56
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.05	0.56
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.40	0.56
25:D0:49:LYS:O	25:D0:51:VAL:HG23	2.04	0.56
18:CR:56:THR:O	18:CR:58:LEU:HD12	2.04	0.56
42:DH:45:VAL:HA	42:DH:50:VAL:HG22	1.87	0.56
52:DT:11:GLU:H	52:DT:11:GLU:CD	2.08	0.56
42:DH:16:SER:HB2	42:DH:27:LYS:CB	2.34	0.56
24:CY:247:ARG:HD2	24:CY:278:ASP:O	2.05	0.56
35:BA:621:A:C2'	35:BA:622:G:H5'	2.34	0.56
24:CY:191:ASP:C	24:CY:193:GLY:H	2.08	0.56
12:AL:25:PRO:C	12:AL:27:LEU:N	2.54	0.56
37:DC:29:LEU:O	37:DC:30:VAL:C	2.43	0.56
34:D9:27:CYS:SG	34:D9:29:ASN:ND2	2.78	0.56
34:D9:31:LYS:HD3	35:DA:2478:A:OP1	2.05	0.56
24:AY:92:ILE:HG23	24:AY:93:GLU:N	2.20	0.56
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.05	0.56
35:BA:884:C:H41	35:BA:886:C:H42	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:153:HIS:CE1	11:AK:58:PRO:HD2	2.41	0.56
32:D7:28:ARG:HH11	32:D7:28:ARG:HG3	1.68	0.56
26:D1:6:GLU:O	26:D1:7:ILE:HD12	2.05	0.56
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.70	0.56
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.71	0.56
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.05	0.56
35:BA:2428:G:H4'	35:BA:2429:G:O5'	2.06	0.56
24:AY:534:ILE:HG13	24:AY:570:GLY:O	2.05	0.56
35:BA:1114:G:H2'	35:BA:1115:G:H5'	1.86	0.56
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.05	0.56
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.40	0.56
35:DA:710:G:H1	35:DA:721:C:H42	1.51	0.56
35:BA:1068:G:N2	35:BA:1096:A:H5'	2.19	0.56
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.04	0.56
35:BA:537:C:H2'	35:BA:538:G:H8	1.69	0.56
35:DA:2649:U:O2'	35:DA:2650:U:H5'	2.04	0.56
1:AA:950:U:H2'	1:AA:951:G:H8	1.70	0.56
35:BA:1398:C:H2'	35:BA:1399:C:H6	1.70	0.56
20:AT:24:LEU:O	20:AT:24:LEU:HD13	2.05	0.56
18:CR:25:THR:O	18:CR:25:THR:HG22	2.05	0.56
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.05	0.56
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.68	0.56
24:AY:614:GLU:HA	24:AY:617:MET:HB2	1.87	0.56
41:BG:138:GLN:NE2	41:BG:149:VAL:HG23	2.20	0.56
10:AJ:30:SER:HA	10:AJ:80:LYS:HE2	1.86	0.56
24:CY:409:ILE:CD1	24:CY:656:ALA:HB3	2.34	0.56
24:CY:86:GLY:O	24:CY:88:VAL:HG22	2.04	0.56
35:DA:2051:A:H4'	39:DE:141:ILE:CD1	2.35	0.56
48:BP:7:ARG:HA	48:BP:7:ARG:CZ	2.35	0.56
53:DU:66:ASN:ND2	53:DU:76:TYR:H	2.04	0.56
53:DU:65:ILE:HD11	53:DU:93:LYS:HA	1.87	0.56
53:BU:62:ILE:HG23	53:BU:76:TYR:CE1	2.40	0.56
38:DD:34:VAL:CG2	38:DD:35:LYS:H	2.02	0.56
31:B6:54:ILE:O	31:B6:54:ILE:CD1	2.52	0.56
35:DA:322:A:H5'	35:DA:340:A:H1'	1.87	0.56
57:DY:2:ARG:N	57:DY:4:LYS:HG2	2.20	0.56
57:DY:8:LYS:H	57:DY:8:LYS:HD2	1.68	0.56
35:BA:2272:U:H5''	35:BA:2273:A:OP1	2.04	0.56
40:DF:185:ASP:HA	40:DF:188:ARG:CD	2.34	0.56
35:BA:2334:G:C4	51:BS:15:ARG:HD3	2.41	0.56
19:AS:5:LEU:HG	19:AS:10:PHE:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:209:ALA:O	24:CY:210:ARG:C	2.43	0.56
24:CY:227:ILE:O	24:CY:227:ILE:HG22	2.05	0.56
31:B6:16:CYS:O	31:B6:17:LYS:HB2	2.06	0.56
35:BA:2287:A:N6	35:BA:2344:U:N3	2.48	0.56
51:BS:90:GLY:C	51:BS:92:TYR:H	2.08	0.56
24:CY:33:LEU:HD12	24:CY:36:THR:HG21	1.86	0.56
31:B6:48:VAL:O	31:B6:49:HIS:HB2	2.05	0.56
31:D6:37:ARG:NH2	35:DA:2286:A:N6	2.52	0.56
49:DQ:55:VAL:HG13	49:DQ:56:ARG:N	2.19	0.56
48:BP:27:HIS:C	48:BP:27:HIS:CD2	2.77	0.56
53:BU:8:VAL:HG23	53:BU:11:ARG:HH21	1.70	0.56
35:DA:947:G:H2'	35:DA:948:G:C8	2.40	0.56
18:CR:37:VAL:C	18:CR:39:VAL:H	2.08	0.56
2:CB:153:ARG:C	2:CB:155:LEU:N	2.58	0.56
46:BN:45:ASN:N	46:BN:45:ASN:HD22	1.83	0.56
27:D2:69:ARG:CG	27:D2:70:GLN:N	2.64	0.56
51:BS:36:TYR:N	51:BS:36:TYR:CD1	2.74	0.56
51:DS:88:ASP:OD2	51:DS:89:ARG:N	2.39	0.56
46:DN:58:ASP:C	46:DN:60:ILE:N	2.58	0.56
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.88	0.56
35:BA:676:A:H2	35:BA:802:A:H61	1.51	0.56
52:BT:42:ILE:HD13	52:BT:83:ILE:HD13	1.88	0.56
1:CA:1226:C:H5''	13:CM:103:THR:CB	2.35	0.56
6:AF:67:MET:SD	6:AF:75:LEU:HD22	2.46	0.56
39:BE:8:LYS:HG2	39:BE:192:ASN:HA	1.85	0.56
41:DG:77:ILE:HG22	41:DG:80:PHE:H	1.70	0.56
42:BH:46:GLU:OE1	42:BH:51:ARG:HB2	2.05	0.56
38:DD:131:LEU:CD1	38:DD:131:LEU:N	2.66	0.56
42:BH:16:SER:CB	42:BH:27:LYS:HB2	2.32	0.56
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.39	0.56
35:DA:1336:A:P	56:DX:64:LYS:HE3	2.45	0.56
38:DD:26:LYS:HE2	38:DD:26:LYS:CA	2.35	0.56
42:DH:19:VAL:O	42:DH:20:ALA:HB2	2.05	0.56
7:AG:43:PHE:O	7:AG:46:ALA:HB3	2.05	0.56
1:AA:624:C:H2'	1:AA:625:G:H8	1.69	0.56
41:DG:5:VAL:HG12	41:DG:7:LEU:H	1.71	0.56
30:D5:58:LEU:HD13	30:D5:59:GLU:N	2.20	0.56
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.67	0.56
56:BX:8:ILE:H	56:BX:8:ILE:CD1	2.16	0.56
35:DA:881:G:H2'	35:DA:882:G:H5'	1.86	0.56
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:69:THR:O	18:AR:72:ARG:N	2.39	0.56
26:D1:7:ILE:CG2	26:D1:66:HIS:HD2	2.18	0.56
24:CY:488:THR:HG23	24:CY:600:VAL:HB	1.88	0.56
42:DH:105:LEU:H	42:DH:105:LEU:HD23	1.69	0.56
58:DZ:97:GLU:HA	58:DZ:126:VAL:O	2.06	0.56
46:BN:21:LYS:HD2	46:BN:26:LEU:HB3	1.86	0.56
1:AA:675:A:O2'	1:AA:676:A:H5'	2.05	0.56
56:DX:65:ARG:HH11	56:DX:65:ARG:HG2	1.70	0.56
24:AY:343:ASN:ND2	24:AY:343:ASN:C	2.59	0.56
1:AA:1423:G:H5'	47:BO:49:ARG:HH22	1.69	0.56
35:BA:850:C:O2'	35:BA:851:U:H5'	2.05	0.56
22:CV:69:C:O2'	22:CV:70:G:H5'	2.05	0.56
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.86	0.56
35:DA:481:G:OP2	57:DY:47:LYS:HD3	2.05	0.56
24:AY:609:GLU:HA	24:AY:643:ILE:O	2.05	0.56
24:AY:652:MET:O	24:AY:652:MET:HG3	2.04	0.56
24:AY:655:TYR:HD2	24:AY:669:PHE:CE2	2.24	0.56
35:BA:2171:A:H1'	35:BA:2172:U:C5	2.40	0.56
24:AY:496:LYS:HE2	24:AY:498:ILE:HD13	1.87	0.56
26:D1:35:THR:HG23	26:D1:35:THR:O	2.04	0.56
35:BA:1035:U:H2'	35:BA:1036:G:H8	1.68	0.56
35:DA:491:G:H2'	35:DA:492:A:C8	2.41	0.56
28:D3:9:VAL:HG11	28:D3:55:ARG:HD3	1.86	0.56
39:BE:101:ARG:NE	39:BE:171:GLU:HB2	2.20	0.56
35:BA:492:A:H2'	35:BA:493:G:H5'	1.88	0.56
38:BD:72:LYS:HB3	38:BD:75:ILE:HB	1.88	0.56
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.05	0.56
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.87	0.56
35:BA:551:G:H2'	35:BA:552:G:H5'	1.87	0.56
19:AS:46:GLY:O	19:AS:48:THR:N	2.39	0.56
43:BJ:54:UNK:O	43:BJ:56:UNK:N	2.38	0.56
46:DN:97:ARG:O	46:DN:101:HIS:HB2	2.05	0.56
18:CR:40:LEU:O	18:CR:42:ARG:N	2.38	0.56
35:BA:292:C:O2'	35:BA:293:U:H5'	2.05	0.56
35:DA:1662:C:H2'	35:DA:1663:C:C6	2.39	0.56
54:BV:98:GLU:OE2	54:BV:100:ARG:HD3	2.06	0.56
35:BA:206:U:H2'	35:BA:206:U:O2	2.04	0.56
43:BJ:118:UNK:C	43:BJ:120:UNK:H	2.18	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.19	0.56
49:DQ:66:ILE:O	49:DQ:66:ILE:HG13	2.04	0.56
41:BG:18:GLU:HA	41:BG:18:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:201:HIS:O	38:BD:204:ILE:HG12	2.06	0.56
49:BQ:135:ASP:CG	58:BZ:49:ARG:NH1	2.58	0.56
2:CB:60:ASP:O	2:CB:64:ARG:NH2	2.39	0.56
35:BA:58:G:H1	35:BA:69:C:H42	1.51	0.56
37:DC:14:LYS:HD3	37:DC:14:LYS:H	1.71	0.56
35:DA:860:U:H5	35:DA:917:A:N7	2.03	0.56
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.05	0.56
35:BA:680:G:H2'	35:BA:681:G:C8	2.40	0.56
1:CA:67:C:H2'	1:CA:68:G:C8	2.40	0.56
7:AG:38:LEU:O	7:AG:41:ARG:HB2	2.06	0.56
35:DA:2011:U:H2'	35:DA:2012:G:H5'	1.87	0.56
40:BF:157:VAL:HG12	40:BF:176:LEU:HD23	1.87	0.56
40:BF:185:ASP:HA	40:BF:188:ARG:CG	2.34	0.56
31:B6:9:LEU:HD12	31:B6:28:ARG:HG3	1.86	0.56
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.20	0.56
48:BP:23:PRO:C	48:BP:33:ARG:CZ	2.73	0.56
48:BP:55:ARG:CG	48:BP:56:SER:N	2.60	0.56
56:BX:10:ALA:HB1	56:BX:11:PRO:HD2	1.87	0.56
35:DA:2334:G:C4	51:DS:15:ARG:HD3	2.40	0.56
57:BY:25:GLY:HA3	57:BY:39:VAL:CG1	2.35	0.56
29:D4:8:LYS:O	29:D4:9:LEU:CB	2.53	0.56
41:DG:153:ARG:NH1	41:DG:153:ARG:HB3	2.20	0.56
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.70	0.56
48:DP:12:ALA:HB1	48:DP:16:ARG:HB3	1.87	0.56
2:AB:114:ARG:HD2	2:AB:118:LEU:HG	1.86	0.56
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.04	0.56
2:AB:223:ILE:C	2:AB:225:ALA:H	2.07	0.56
35:DA:614(A):U:H5''	35:DA:614(B):G:OP2	2.05	0.56
46:DN:87:LEU:HD21	46:DN:98:VAL:HG13	1.88	0.56
24:CY:251:ILE:HG23	24:CY:281:PRO:HB3	1.87	0.56
35:DA:797:C:H2'	35:DA:798:G:H8	1.71	0.56
35:DA:1948:G:H5'	35:DA:1948:G:H8	1.68	0.56
44:BK:93:ARG:HG3	58:BZ:112:ARG:NE	2.19	0.56
51:DS:30:ARG:NH2	51:DS:62:LYS:HD2	2.20	0.56
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.04	0.56
52:DT:33:LYS:HE2	52:DT:43:GLN:CD	2.26	0.56
39:DE:95:ILE:HD13	39:DE:95:ILE:N	2.21	0.56
37:BC:29:LEU:O	37:BC:30:VAL:C	2.43	0.56
35:DA:676:A:H2	35:DA:802:A:H61	1.53	0.56
24:CY:366:VAL:HG23	24:CY:367:GLU:N	2.20	0.56
4:CD:57:ARG:H	4:CD:57:ARG:HD2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.06	0.56
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.38	0.56
35:DA:848:G:H5''	35:DA:928:G:H22	1.69	0.56
1:CA:631:G:H8	1:CA:631:G:H5'	1.71	0.56
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.20	0.56
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.05	0.56
14:AN:47:LEU:O	14:AN:50:LYS:N	2.39	0.56
31:D6:40:CYS:HB2	31:D6:46:HIS:ND1	2.20	0.56
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.19	0.56
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.08	0.56
22:AW:74:A:C2'	22:AW:75:C:H5''	2.36	0.56
24:AY:534:ILE:HD11	24:AY:570:GLY:HA3	1.88	0.56
12:CL:110:VAL:HG21	12:CL:120:TYR:HD2	1.70	0.56
24:AY:309:LEU:HD12	24:AY:310:ALA:N	2.20	0.56
26:B1:26:ARG:HG3	26:B1:27:GLU:HG3	1.86	0.56
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.86	0.56
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.18	0.56
35:DA:1404:C:O2'	35:DA:1405:U:H5'	2.04	0.56
35:BA:573:G:O2'	35:BA:574:C:H3'	2.05	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.69	0.56
6:AF:4:TYR:CE1	6:AF:92:LYS:HD2	2.40	0.56
1:CA:807:A:H2'	1:CA:808:C:C6	2.40	0.56
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.23	0.56
7:CG:51:GLN:OE1	7:CG:51:GLN:HA	2.06	0.56
38:BD:112:GLN:H	38:BD:115:GLN:NE2	2.03	0.56
4:AD:8:VAL:HB	4:AD:21:LEU:CD1	2.35	0.56
40:BF:25:PRO:CG	40:BF:119:ARG:HB2	2.35	0.56
46:DN:7:LYS:O	46:DN:9:VAL:N	2.38	0.56
53:DU:106:PHE:O	53:DU:109:LEU:N	2.39	0.56
31:D6:11:LEU:CG	31:D6:26:ASN:HD21	2.17	0.56
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.35	0.56
48:DP:50:ARG:O	48:DP:57:THR:HG22	2.06	0.56
31:D6:15:GLU:HB2	31:D6:47:THR:HG21	1.87	0.56
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.88	0.56
12:CL:70:ILE:HG21	12:CL:77:LEU:CD1	2.35	0.56
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.06	0.56
39:DE:77:ILE:HG22	39:DE:78:LEU:HD12	1.86	0.56
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.05	0.56
37:DC:95:VAL:HG12	37:DC:96:GLY:N	2.21	0.56
5:AE:12:LEU:HD13	5:AE:12:LEU:C	2.25	0.56
42:DH:46:GLU:OE1	42:DH:51:ARG:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:45:GLN:H	49:DQ:45:GLN:CD	2.01	0.56
52:BT:53:ARG:HH11	52:BT:53:ARG:CB	2.17	0.56
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.40	0.56
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.39	0.56
35:DA:828:U:C5	35:DA:829:A:N6	2.74	0.56
35:DA:674:G:H2'	35:DA:804:A:H61	1.71	0.56
35:BA:1185:C:H5'	35:BA:1186:G:P	2.46	0.56
26:D1:7:ILE:HG22	26:D1:66:HIS:CD2	2.34	0.56
20:AT:49:ALA:CB	20:AT:99:LEU:HG	2.35	0.56
50:DR:7:GLY:C	50:DR:8:ARG:NE	2.59	0.56
26:D1:50:ARG:HG3	26:D1:59:THR:HG22	1.88	0.56
35:BA:455:C:N3	35:BA:472:A:H2'	2.21	0.56
57:DY:17:SER:HB2	57:DY:71:LYS:HD2	1.86	0.56
35:BA:2026:C:N3	35:BA:2027:G:C8	2.74	0.56
2:AB:11:LEU:HD11	2:AB:217:ARG:NH2	2.20	0.56
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.71	0.56
1:AA:821:G:O2'	1:AA:822:C:H5'	2.05	0.56
35:BA:1461:G:O2'	35:BA:1462:C:H5'	2.06	0.56
35:DA:845:G:OP2	35:DA:845:G:H8	1.88	0.56
42:DH:155:SER:O	42:DH:157:TYR:N	2.38	0.56
23:AX:13:A:C2'	23:AX:14:A:H5''	2.35	0.56
53:DU:65:ILE:HG12	53:DU:96:ALA:HB1	1.88	0.56
1:CA:1318:A:H2'	1:CA:1319:A:H5'	1.87	0.56
40:DF:114:VAL:HG21	40:DF:202:PHE:CE1	2.40	0.56
35:DA:2415:G:H4'	48:DP:67:MET:N	2.19	0.56
41:DG:138:GLN:O	41:DG:144:ILE:HD13	2.05	0.56
5:AE:80:ILE:HG22	8:AH:104:ARG:HH22	1.66	0.56
35:DA:1506:C:H2'	35:DA:1506:C:O2	2.06	0.56
31:D6:43:CYS:HB2	31:D6:44:ARG:NH2	2.18	0.56
5:CE:79:GLU:HB3	5:CE:92:LYS:HA	1.88	0.56
1:AA:1130:A:C2	1:AA:1146:A:C4	2.94	0.56
46:DN:120:LEU:HD11	46:DN:122:VAL:HG23	1.86	0.56
46:BN:43:THR:HB	46:BN:46:VAL:HG11	1.86	0.56
48:BP:127:ALA:HB3	48:BP:130:PHE:CZ	2.41	0.56
44:BK:58:THR:HB	44:BK:66:THR:CG2	2.35	0.56
2:AB:119:GLU:OE1	2:AB:153:ARG:NH2	2.38	0.56
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.70	0.56
39:BE:89:ASP:O	39:BE:90:THR:O	2.23	0.56
24:AY:526:VAL:HB	24:AY:566:THR:HG23	1.88	0.56
1:AA:1442(B):A:N7	52:BT:118:ARG:HG2	2.20	0.56
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:161:THR:O	38:BD:162:SER:HB3	2.06	0.56
52:DT:106:SER:O	52:DT:107:ASP:CB	2.53	0.56
2:CB:12:GLU:HA	2:CB:16:HIS:CG	2.40	0.56
40:DF:174:VAL:HG21	40:DF:189:THR:HG21	1.88	0.56
9:AI:79:LEU:CD1	9:AI:83:ARG:HD2	2.35	0.56
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.84	0.56
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.70	0.56
42:BH:159:GLU:OE1	42:BH:159:GLU:HA	2.06	0.56
24:CY:357:ARG:HG3	24:CY:366:VAL:HG11	1.86	0.56
35:DA:1220:A:H3'	35:DA:1221:C:C5'	2.36	0.56
35:BA:933:A:H2'	35:BA:934:G:O4'	2.06	0.56
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.35	0.56
3:CC:119:ARG:O	3:CC:123:GLN:HG3	2.06	0.56
35:BA:1567:A:H2'	38:BD:84:TYR:CE2	2.39	0.56
46:BN:126:PRO:O	46:BN:127:ASP:HB2	2.04	0.56
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	1.88	0.56
35:BA:1774:C:O2	38:BD:11:PRO:HB2	2.05	0.56
50:BR:44:LEU:O	50:BR:44:LEU:HD13	2.04	0.56
7:AG:27:ILE:HD11	7:AG:40:ALA:HA	1.87	0.56
13:CM:77:ASN:O	13:CM:80:ARG:N	2.35	0.56
6:CF:10:LEU:HD12	6:CF:61:LEU:HD13	1.88	0.56
35:BA:406:G:O2'	35:BA:407:G:C8	2.58	0.56
35:DA:551:G:H2'	35:DA:552:G:H5'	1.88	0.56
35:DA:2681:C:H5	35:DA:2725:A:H62	1.53	0.56
1:CA:45:U:H2'	1:CA:46:G:H8	1.70	0.56
22:AV:2:G:H5''	25:B0:8:GLY:HA2	1.88	0.56
35:DA:2028:U:H2'	35:DA:2029:G:C8	2.41	0.56
18:AR:25:THR:HG22	18:AR:25:THR:O	2.05	0.56
35:DA:1306:C:H2'	35:DA:1307:A:H8	1.70	0.56
42:DH:173:PRO:C	42:DH:175:LYS:H	2.08	0.56
48:DP:7:ARG:HA	48:DP:7:ARG:CZ	2.36	0.56
41:BG:34:LEU:N	41:BG:34:LEU:HD12	2.21	0.56
37:BC:95:VAL:HG12	37:BC:96:GLY:N	2.21	0.56
53:BU:65:ILE:HD11	53:BU:93:LYS:HA	1.88	0.56
54:BV:38:LEU:H	54:BV:51:VAL:HG13	1.71	0.56
48:BP:45:LEU:HG	48:BP:46:LYS:H	1.70	0.56
58:DZ:10:ARG:HB3	58:DZ:36:LYS:CB	2.35	0.56
42:DH:12:PRO:O	42:DH:15:VAL:HG22	2.04	0.56
31:D6:27:LYS:HB3	31:D6:30:THR:HG22	1.87	0.56
31:D6:7:ILE:HD12	31:D6:7:ILE:N	2.20	0.56
35:DA:2272:U:H5''	35:DA:2273:A:OP1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:238:THR:C	24:CY:240:GLU:N	2.59	0.56
48:DP:16:ARG:HB2	48:DP:16:ARG:HH11	1.69	0.56
1:AA:1198:G:H2'	1:AA:1199:U:O4'	2.05	0.56
52:BT:1:MET:H2	52:BT:7:ILE:HD11	1.67	0.56
26:B1:58:ILE:HD11	26:B1:91:LYS:CA	2.36	0.56
26:D1:81:LYS:NZ	35:DA:271(H):G:H4'	2.20	0.56
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.06	0.56
35:BA:82:G:H5''	35:BA:296:C:C5'	2.35	0.56
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.06	0.56
24:AY:446:THR:HG23	24:AY:448:GLN:HG2	1.88	0.56
55:BW:20:VAL:HG23	55:BW:47:VAL:HG21	1.88	0.56
10:AJ:47:PHE:CZ	14:AN:37:PHE:CE2	2.92	0.56
18:CR:44:LEU:CD2	18:CR:79:LEU:HD22	2.36	0.56
57:DY:59:GLY:O	57:DY:60:PHE:HB2	2.06	0.56
58:BZ:155:LEU:HD23	58:BZ:155:LEU:N	2.19	0.56
35:DA:688:U:H4'	35:DA:1780:A:C2	2.41	0.56
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.71	0.56
1:CA:658:G:O4'	15:CO:22:THR:HB	2.06	0.56
24:CY:498:ILE:HG22	24:CY:507:TYR:CD2	2.41	0.56
1:AA:164:U:H2'	1:AA:165:C:C6	2.40	0.56
57:DY:17:SER:CB	57:DY:71:LYS:HD2	2.36	0.56
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.05	0.56
35:BA:1306:C:H2'	35:BA:1307:A:H8	1.70	0.56
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.21	0.56
54:DV:54:GLY:O	54:DV:55:ALA:HB2	2.05	0.56
32:B7:35:ARG:HH11	32:B7:35:ARG:HG2	1.70	0.56
1:AA:1009:G:N3	1:AA:1009:G:H2'	2.20	0.56
45:DL:81:UNK:O	45:DL:82:UNK:O	2.22	0.56
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.26	0.56
54:DV:98:GLU:OE2	54:DV:100:ARG:HD3	2.06	0.56
35:BA:503:A:H4'	35:BA:504:U:C5'	2.36	0.56
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.88	0.56
4:CD:132:ARG:HD2	4:CD:132:ARG:O	2.05	0.56
20:CT:24:LEU:HD13	20:CT:24:LEU:O	2.05	0.56
35:DA:2512:C:H2'	35:DA:2513:G:O4'	2.05	0.56
43:DJ:130:UNK:O	43:DJ:132:UNK:N	2.39	0.56
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.87	0.56
41:BG:7:LEU:O	41:BG:11:TYR:N	2.37	0.56
24:AY:119:GLU:O	24:AY:120:THR:OG1	2.24	0.56
40:BF:2:LYS:HG3	40:BF:25:PRO:HG2	1.86	0.56
22:AW:60:A:C2'	22:AW:61:U:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:51:VAL:HG12	54:BV:52:VAL:N	2.14	0.56
35:BA:2415:G:H4'	48:BP:67:MET:N	2.20	0.56
48:BP:50:ARG:O	48:BP:57:THR:HG22	2.06	0.56
29:D4:9:LEU:CD1	29:D4:10:VAL:H	2.19	0.56
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.88	0.56
24:CY:206:LEU:CD1	24:CY:210:ARG:HH12	2.19	0.56
24:CY:227:ILE:HD11	24:CY:241:GLU:O	2.05	0.56
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.07	0.56
51:BS:88:ASP:OD2	51:BS:89:ARG:N	2.39	0.56
35:BA:583:G:OP2	53:BU:10:ARG:HD2	2.06	0.56
35:BA:2583:G:H2'	35:BA:2584:U:O2	2.05	0.56
2:AB:153:ARG:C	2:AB:155:LEU:N	2.57	0.56
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.83	0.56
35:DA:2110:G:HO2'	35:DA:2120:G:H5'	1.68	0.56
54:DV:18:LEU:CD1	54:DV:19:LYS:H	2.18	0.56
2:AB:238:LEU:O	2:AB:238:LEU:HG	2.06	0.56
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.87	0.56
35:DA:2103:C:H2'	35:DA:2103:C:O2	2.04	0.56
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.87	0.56
44:DK:24:GLY:H	44:DK:25:PRO:HD2	1.69	0.56
1:AA:728:A:H2'	1:AA:729:A:C8	2.41	0.56
43:DJ:26:UNK:HA	43:DJ:84:UNK:CA	2.35	0.56
35:BA:1678:G:H22	35:BA:1989:G:H22	1.53	0.56
25:B0:43:THR:HG22	35:BA:2331:G:O2'	2.05	0.56
9:CI:79:LEU:CD1	9:CI:83:ARG:HB2	2.34	0.56
35:BA:2804:C:H2'	35:BA:2805:G:H8	1.71	0.56
34:D9:29:ASN:HD21	34:D9:32:HIS:CG	2.23	0.56
39:DE:82:ARG:HG3	39:DE:83:ASP:H	1.71	0.56
24:AY:381:LYS:HD2	24:AY:381:LYS:N	2.20	0.56
35:BA:2657:A:O2'	42:BH:160:LYS:HE3	2.05	0.56
4:AD:57:ARG:H	4:AD:57:ARG:HD2	1.70	0.56
35:BA:751:A:C5'	55:BW:90:ARG:HA	2.35	0.56
35:DA:933:A:H2'	35:DA:934:G:O4'	2.06	0.56
25:D0:20:ARG:CD	25:D0:20:ARG:H	2.19	0.56
36:BB:22:U:H2'	36:BB:23:G:C8	2.41	0.56
11:CK:108:ILE:N	11:CK:108:ILE:CD1	2.69	0.56
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE3	1.88	0.56
42:BH:86:GLU:HB2	42:BH:132:ARG:HB3	1.87	0.56
1:CA:255:G:O6	1:CA:266:G:O6	2.24	0.56
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.87	0.56
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:215:VAL:HG23	37:BC:225:ILE:HG12	1.86	0.56
35:BA:1290:C:H2'	35:BA:1291:C:H6	1.71	0.56
35:BA:986:C:O2'	35:BA:987:G:H5'	2.06	0.56
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.41	0.56
7:CG:91:VAL:HG12	7:CG:92:SER:N	2.21	0.56
17:CQ:80:GLY:O	17:CQ:81:ARG:HD2	2.06	0.56
41:BG:36:LYS:HA	41:BG:99:MET:SD	2.46	0.56
4:CD:25:ARG:HH12	4:CD:30:LYS:HB2	1.71	0.56
40:BF:40:GLN:OE1	40:BF:184:TYR:HB2	2.06	0.56
24:AY:415:PRO:O	24:AY:420:ASP:HB2	2.05	0.56
58:DZ:35:ARG:CZ	58:DZ:35:ARG:HB3	2.36	0.56
58:DZ:42:VAL:HG13	58:DZ:43:GLU:N	2.21	0.56
58:DZ:43:GLU:O	58:DZ:47:VAL:HG23	2.06	0.56
40:DF:157:VAL:HG22	40:DF:194:MET:HG2	1.87	0.56
31:D6:53:LYS:HG3	31:D6:54:ILE:HG23	1.88	0.56
5:AE:101:ILE:O	5:AE:101:ILE:HG12	2.06	0.56
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.88	0.56
24:CY:217:VAL:HA	24:CY:220:ALA:HB3	1.88	0.56
1:CA:1298:C:H1'	1:CA:1299:A:C6	2.41	0.56
40:DF:195:ASP:CG	40:DF:196:LEU:H	2.07	0.56
24:AY:77:HIS:NE2	24:AY:277:VAL:HG21	2.21	0.56
2:CB:119:GLU:OE1	2:CB:153:ARG:NH2	2.37	0.56
48:DP:112:LEU:O	48:DP:128:HIS:HB2	2.06	0.56
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.88	0.56
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.12	0.56
48:DP:27:HIS:CD2	48:DP:27:HIS:C	2.79	0.56
49:DQ:2:LEU:O	49:DQ:3:MET:HB3	2.06	0.56
35:BA:2746:U:O2'	35:BA:2747:G:H5'	2.06	0.56
30:B5:55:ARG:HH12	50:BR:33:ARG:CD	2.19	0.56
52:BT:120:ARG:HA	52:BT:123:GLN:HG2	1.88	0.56
3:AC:46:GLU:HB3	3:AC:83:ARG:HH22	1.71	0.56
35:BA:2103:C:H2'	35:BA:2103:C:O2	2.06	0.56
58:BZ:180:VAL:HG12	58:BZ:181:GLU:N	2.19	0.56
35:DA:192:C:C2'	35:DA:193:U:H5'	2.31	0.56
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.35	0.56
44:DK:58:THR:HB	44:DK:66:THR:CG2	2.36	0.56
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.06	0.56
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.20	0.56
58:BZ:53:ILE:HG22	58:BZ:71:VAL:HB	1.87	0.56
1:CA:1312:G:O2'	1:CA:1313:U:H5'	2.06	0.56
50:BR:21:TYR:HB3	50:BR:47:PHE:CE2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.36	0.56
35:DA:1185:C:H5'	35:DA:1186:G:P	2.45	0.56
35:DA:877:U:O2'	35:DA:878:A:H5''	2.06	0.56
35:DA:2132:U:C5	37:DC:6:LYS:HD2	2.41	0.56
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.06	0.56
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.06	0.56
24:CY:314:PHE:CE1	24:CY:327:PHE:HB3	2.41	0.56
36:DB:77:U:O2'	36:DB:78:A:H5'	2.06	0.56
24:AY:539:ILE:O	24:AY:542:VAL:HG12	2.06	0.56
35:DA:1567:A:H2'	38:DD:84:TYR:CE2	2.40	0.56
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.87	0.56
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.60	0.56
35:DA:1847:A:H3'	35:DA:1848:A:C5'	2.36	0.56
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.06	0.56
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.06	0.56
2:CB:62:ALA:O	2:CB:64:ARG:N	2.35	0.56
1:CA:45:U:H2'	1:CA:46:G:C8	2.40	0.56
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.41	0.56
35:BA:438:G:O2'	35:BA:440:G:H5'	2.05	0.56
35:BA:2845:G:O2'	35:BA:2846:G:H5'	2.06	0.56
1:CA:620:C:C2	4:CD:135:LEU:HG	2.41	0.56
35:DA:1624:G:O2'	35:DA:1625:C:H5'	2.06	0.56
1:AA:807:A:H2'	1:AA:808:C:C6	2.41	0.56
47:BO:52:VAL:O	47:BO:53:LYS:HG3	2.06	0.56
11:AK:12:ARG:O	11:AK:13:GLN:HG3	2.05	0.56
41:BG:67:LYS:HD3	41:BG:68:PRO:CD	2.36	0.56
41:BG:91:ARG:HD2	41:BG:92:VAL:CA	2.34	0.56
24:CY:605:ILE:CG2	24:CY:646:PHE:HB3	2.35	0.56
24:AY:218:GLU:O	24:AY:221:ALA:HB3	2.06	0.56
40:BF:25:PRO:HG3	40:BF:119:ARG:CB	2.34	0.56
54:DV:52:VAL:O	54:DV:52:VAL:HG13	2.06	0.56
25:D0:10:THR:HG21	35:DA:2277:G:OP2	2.06	0.56
40:DF:152:GLU:O	40:DF:153:SER:C	2.44	0.56
31:D6:11:LEU:HD23	31:D6:51:GLU:CG	2.36	0.56
48:DP:58:THR:C	48:DP:61:ARG:HE	2.06	0.56
52:BT:65:LYS:HZ2	52:BT:65:LYS:HA	1.67	0.56
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.59	0.56
35:DA:1505:C:C5	35:DA:1506:C:H1'	2.41	0.56
37:DC:139:PRO:HA	37:DC:145:THR:HB	1.88	0.56
47:DO:115:VAL:CG1	47:DO:121:VAL:HG21	2.35	0.56
31:B6:15:GLU:OE1	31:B6:44:ARG:NH2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.88	0.56
35:DA:2469:A:O3'	49:DQ:56:ARG:NH1	2.39	0.56
35:DA:2754:U:H2'	35:DA:2755:C:H5'	1.87	0.56
3:CC:79:ARG:CB	3:CC:79:ARG:HH11	2.12	0.56
35:DA:1332:G:N2	35:DA:1609:A:H3'	2.20	0.56
1:CA:299:G:H2'	1:CA:300:A:H8	1.68	0.56
37:DC:42:VAL:O	37:DC:176:VAL:HG22	2.06	0.56
1:CA:363:A:OP2	12:CL:33:ARG:HD3	2.06	0.56
35:BA:2076:U:H5'	35:BA:2238:G:N2	2.20	0.56
52:DT:126:ALA:C	52:DT:128:GLU:H	2.08	0.56
35:DA:884:C:H41	35:DA:886:C:H42	1.53	0.56
42:BH:88:LEU:HD23	42:BH:164:TYR:O	2.06	0.56
24:AY:438:PHE:C	24:AY:438:PHE:CD2	2.77	0.56
32:B7:24:THR:HG23	32:B7:27:GLY:HA3	1.87	0.56
1:AA:1133:G:N2	1:AA:1143:G:H1'	2.18	0.56
58:BZ:136:PHE:CD1	58:BZ:136:PHE:O	2.59	0.56
53:BU:26:GLY:O	53:BU:28:ARG:N	2.39	0.56
42:BH:86:GLU:HB3	42:BH:132:ARG:HB3	1.88	0.56
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.05	0.56
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.41	0.56
38:BD:76:PRO:HG2	38:BD:98:VAL:CG2	2.36	0.56
44:DK:86:LYS:NZ	44:DK:86:LYS:HB3	2.21	0.56
46:DN:74:ARG:NH2	46:DN:83:LYS:HD3	2.20	0.56
1:CA:1009:G:H2'	1:CA:1009:G:N3	2.21	0.56
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.06	0.56
35:DA:246:C:H2'	35:DA:247:G:H5'	1.88	0.56
24:AY:622:GLY:O	24:AY:625:ASN:N	2.38	0.55
41:BG:29:TRP:C	41:BG:31:VAL:H	2.10	0.55
24:AY:165:GLN:HE21	24:AY:177:ILE:HG21	1.71	0.55
24:AY:20:HIS:O	24:AY:21:ILE:O	2.24	0.55
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.36	0.55
24:AY:8:ASP:O	24:AY:9:LEU:HB3	2.06	0.55
53:BU:76:TYR:CD2	53:BU:76:TYR:C	2.79	0.55
58:BZ:67:LEU:HD12	58:BZ:67:LEU:H	1.71	0.55
58:BZ:67:LEU:N	58:BZ:67:LEU:HD12	2.21	0.55
31:D6:27:LYS:NZ	31:D6:30:THR:HB	2.22	0.55
57:BY:86:ARG:HB3	57:BY:88:LYS:NZ	2.21	0.55
35:BA:1971:A:C4	38:BD:241:PRO:HD3	2.41	0.55
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.46	0.55
27:D2:64:LEU:O	27:D2:68:ARG:HB2	2.06	0.55
44:DK:77:LEU:HD12	44:DK:107:ILE:CG2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:389:LEU:N	24:CY:389:LEU:HD12	2.20	0.55
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.09	0.55
2:AB:97:TRP:CZ2	2:AB:102:LEU:HD13	2.35	0.55
35:DA:2713:A:C3'	35:DA:2714:G:C5'	2.84	0.55
13:AM:81:LEU:HD22	13:AM:81:LEU:N	2.22	0.55
15:AO:76:GLU:O	15:AO:78:TYR:N	2.39	0.55
26:D1:81:LYS:HZ2	35:DA:271(H):G:H4'	1.71	0.55
42:BH:83:TYR:O	42:BH:84:SER:HB3	2.05	0.55
52:BT:132:LYS:HG2	52:BT:133:GLU:H	1.71	0.55
19:CS:9:VAL:CG1	19:CS:9:VAL:O	2.54	0.55
35:BA:1654:A:H2	39:BE:113:PHE:CD1	2.24	0.55
36:BB:114:C:H2'	36:BB:115:G:C8	2.41	0.55
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.88	0.55
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.05	0.55
37:BC:97:GLY:O	37:BC:100:ILE:HG12	2.06	0.55
35:DA:892:G:H2'	35:DA:893:C:H6	1.71	0.55
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.54	0.55
58:BZ:103:ARG:HB2	58:BZ:136:PHE:HB2	1.87	0.55
35:BA:2107:C:H42	35:BA:2182:G:H1	1.54	0.55
36:DB:20:C:H2'	36:DB:21:G:C5'	2.37	0.55
49:BQ:27:VAL:HG21	49:BQ:134:ARG:HG2	1.88	0.55
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.41	0.55
35:DA:1036:G:C6	35:DA:1120:G:C6	2.94	0.55
44:BK:86:LYS:HB3	44:BK:86:LYS:NZ	2.21	0.55
35:BA:709:U:H2'	35:BA:710:G:C8	2.42	0.55
7:AG:64:GLN:CG	7:AG:128:ALA:HB1	2.36	0.55
35:BA:2769:C:O2'	35:BA:2770:G:H5'	2.06	0.55
1:AA:680:C:O2'	1:AA:681:C:H5'	2.06	0.55
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.06	0.55
1:AA:111:G:O6	1:AA:330:C:N4	2.39	0.55
14:CN:44:LEU:O	14:CN:44:LEU:HD12	2.06	0.55
35:DA:1796:U:OP1	38:DD:276:LYS:HE3	2.06	0.55
6:AF:62:TRP:O	6:AF:63:TYR:CG	2.60	0.55
35:BA:1247:A:OP1	40:BF:95:ARG:NH2	2.38	0.55
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.41	0.55
35:BA:2050:C:O2'	35:BA:2051:A:H5'	2.07	0.55
24:AY:250:THR:O	24:AY:252:ASP:N	2.39	0.55
53:BU:93:LYS:H	53:BU:93:LYS:HD2	1.72	0.55
48:BP:47:ASP:CB	48:BP:51:PHE:HB2	2.36	0.55
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.06	0.55
35:BA:363(B):G:H2'	35:BA:363(C):G:C8	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:274:G:N3	35:DA:274:G:H2'	2.19	0.55
41:DG:141:PHE:HB2	41:DG:144:ILE:CG2	2.35	0.55
38:DD:65:ILE:N	38:DD:65:ILE:HD13	2.21	0.55
22:AV:21:A:N6	22:AV:46:G:H2'	2.05	0.55
5:AE:79:GLU:HB3	5:AE:92:LYS:HA	1.88	0.55
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.41	0.55
31:B6:15:GLU:CD	31:B6:44:ARG:NH2	2.60	0.55
35:DA:1858:G:H2'	35:DA:1883:G:N2	2.21	0.55
44:DK:13:PRO:HA	44:DK:52:ILE:HG23	1.88	0.55
54:BV:19:LYS:NZ	54:BV:20:LEU:H	2.03	0.55
2:AB:189:ASP:O	2:AB:191:ASP:N	2.40	0.55
44:BK:13:PRO:HA	44:BK:52:ILE:HG23	1.88	0.55
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.41	0.55
35:BA:2469:A:O3'	49:BQ:56:ARG:NH1	2.39	0.55
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.06	0.55
38:DD:241:PRO:O	38:DD:242:ARG:HB2	2.06	0.55
52:DT:132:LYS:HG2	52:DT:133:GLU:N	2.21	0.55
27:D2:50:ILE:CG2	27:D2:54:LYS:HE3	2.36	0.55
35:BA:8:A:H2'	35:BA:9:U:C5	2.41	0.55
35:DA:2389:G:H5''	35:DA:2390:U:C5'	2.34	0.55
1:CA:741:G:O2'	1:CA:742:G:H5'	2.06	0.55
1:AA:1298:C:H1'	1:AA:1299:A:C6	2.41	0.55
13:AM:6:GLY:C	13:AM:8:GLU:N	2.59	0.55
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.06	0.55
9:AI:73:GLN:O	9:AI:76:ALA:N	2.39	0.55
32:B7:28:ARG:HG3	32:B7:28:ARG:NH1	2.21	0.55
27:B2:25:VAL:C	27:B2:27:GLU:N	2.59	0.55
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.21	0.55
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.37	0.55
22:AV:68:C:H2'	22:AV:69:C:C6	2.41	0.55
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.21	0.55
1:AA:1381:U:C5	1:AA:1382:C:C5	2.94	0.55
3:AC:130:VAL:HG21	3:AC:157:ILE:HG23	1.88	0.55
35:DA:2428:G:H4'	35:DA:2429:G:O5'	2.06	0.55
48:BP:122:PRO:O	48:BP:123:LEU:HB3	2.07	0.55
56:BX:18:TYR:C	56:BX:20:GLY:N	2.59	0.55
35:BA:67:U:H2'	35:BA:68:G:H8	1.70	0.55
6:CF:47:ARG:HG2	6:CF:47:ARG:HH11	1.71	0.55
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.44	0.55
42:BH:155:SER:O	42:BH:157:TYR:N	2.38	0.55
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:230:LYS:HZ2	24:AY:230:LYS:HB2	1.72	0.55
35:BA:993:G:OP1	53:BU:50:ARG:HD2	2.05	0.55
58:DZ:43:GLU:HG3	58:DZ:44:PHE:H	1.72	0.55
41:DG:86:MET:N	41:DG:87:PRO:CD	2.67	0.55
58:BZ:119:GLU:C	58:BZ:121:HIS:H	2.09	0.55
57:BY:84:ARG:NH1	57:BY:84:ARG:HG2	2.21	0.55
31:B6:43:CYS:HB2	31:B6:44:ARG:NH2	2.19	0.55
35:DA:945:A:O2'	35:DA:946:G:H4'	2.06	0.55
48:DP:33:ARG:O	48:DP:34:GLY:C	2.43	0.55
1:AA:1392:G:H21	1:AA:1502:A:H8	1.53	0.55
34:D9:19:ARG:HB2	35:DA:2756:U:H5'	1.87	0.55
39:DE:49:LEU:CD2	39:DE:49:LEU:N	2.68	0.55
51:DS:90:GLY:C	51:DS:92:TYR:H	2.09	0.55
1:AA:973:G:H1'	10:AJ:55:LYS:HZ1	1.66	0.55
30:B5:33:CYS:SG	30:B5:36:CYS:SG	3.04	0.55
40:BF:75:HIS:HE1	40:BF:82:ILE:HD11	1.71	0.55
1:AA:1226:C:H5'	13:AM:96:LEU:CD1	2.36	0.55
1:CA:1014:A:H4'	19:CS:14:HIS:ND1	2.20	0.55
35:DA:2247:A:O2'	35:DA:2248:C:H5'	2.06	0.55
1:AA:1364:U:C2'	1:AA:1364:U:O2	2.49	0.55
42:BH:41:MET:O	42:BH:42:ARG:CB	2.54	0.55
40:DF:113:ALA:HB1	40:DF:186:ILE:CG2	2.34	0.55
52:BT:33:LYS:HE2	52:BT:43:GLN:CD	2.26	0.55
9:CI:7:THR:O	9:CI:83:ARG:HD2	2.05	0.55
1:CA:895:G:H5''	1:CA:896:C:OP2	2.07	0.55
1:AA:630:G:H2'	1:AA:631:G:H5''	1.85	0.55
4:AD:61:LYS:CE	4:AD:62:GLN:HE21	2.19	0.55
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.71	0.55
35:BA:1220:A:H3'	35:BA:1221:C:C5'	2.36	0.55
30:B5:58:LEU:HD13	30:B5:59:GLU:N	2.22	0.55
35:DA:2171:A:H1'	35:DA:2172:U:C5	2.40	0.55
1:AA:1090:U:C4'	1:AA:1170:A:H2	2.19	0.55
26:D1:60:PHE:CD1	26:D1:91:LYS:HE3	2.42	0.55
24:CY:658:ASP:O	24:CY:662:LYS:HG2	2.06	0.55
58:BZ:137:ILE:CG2	58:BZ:155:LEU:HD12	2.37	0.55
35:BA:2688:U:H1'	35:BA:2721:A:N6	2.21	0.55
35:DA:687:C:H2'	35:DA:688:U:O4'	2.07	0.55
51:DS:59:LYS:CD	51:DS:61:ASN:HB2	2.35	0.55
35:BA:483:A:H4'	57:BY:49:VAL:HA	1.88	0.55
35:BA:1812:A:O2'	35:BA:1813:G:H5'	2.06	0.55
35:DA:2815:C:H2'	35:DA:2816:C:H6	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:139:VAL:HG12	58:DZ:141:VAL:HG23	1.88	0.55
1:AA:505:G:H2'	1:AA:506:G:C8	2.41	0.55
24:AY:176:GLY:HA3	24:AY:187:THR:HA	1.89	0.55
24:CY:218:GLU:HG2	45:DL:84:UNK:CB	2.36	0.55
13:AM:121:LYS:HD3	13:AM:121:LYS:N	2.20	0.55
32:D7:34:ARG:HH12	32:D7:39:ARG:HD2	1.71	0.55
35:BA:271(K):U:H3'	35:BA:271(L):U:H5''	1.88	0.55
1:AA:52:G:O2'	1:AA:53:A:H5'	2.06	0.55
35:BA:467:G:O2'	35:BA:468:G:H5'	2.05	0.55
7:AG:91:VAL:HG12	7:AG:92:SER:N	2.20	0.55
11:CK:12:ARG:O	11:CK:13:GLN:HG3	2.07	0.55
50:BR:103:ARG:HD2	55:BW:40:ASN:HD21	1.71	0.55
1:CA:689:C:P	11:CK:46:GLY:HA3	2.47	0.55
58:DZ:59:LEU:O	58:DZ:66:SER:HA	2.06	0.55
35:DA:41:C:H2'	35:DA:42:G:O4'	2.07	0.55
1:AA:977:A:H2'	1:AA:978:A:H5'	1.89	0.55
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.41	0.55
28:D3:5:LYS:HE3	28:D3:34:GLU:OE1	2.06	0.55
24:AY:662:LYS:HZ2	42:BH:175:LYS:HD2	1.71	0.55
22:AV:17:C:C6	22:AV:17(A):U:C5	2.92	0.55
24:AY:252:ASP:OD2	24:AY:252:ASP:N	2.39	0.55
54:DV:39:LEU:HD22	54:DV:39:LEU:N	2.22	0.55
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.37	0.55
35:BA:252:G:O2'	35:BA:253:C:H5'	2.06	0.55
57:BY:13:VAL:O	57:BY:24:VAL:HA	2.07	0.55
57:BY:39:VAL:HG12	57:BY:40:GLU:HG2	1.88	0.55
40:DF:157:VAL:HG22	40:DF:194:MET:HA	1.88	0.55
1:AA:1318:A:H2'	1:AA:1319:A:H5'	1.88	0.55
38:DD:259:THR:O	38:DD:260:ARG:C	2.43	0.55
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.39	0.55
44:DK:112:MET:N	44:DK:113:PRO:HD2	2.20	0.55
19:AS:43:GLU:HB2	19:AS:44:MET:SD	2.46	0.55
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	2.37	0.55
35:BA:1141:U:H5''	46:BN:63:THR:HG23	1.88	0.55
35:BA:2713:A:C3'	35:BA:2714:G:C5'	2.84	0.55
58:DZ:17:ALA:CA	58:DZ:20:ARG:HG2	2.36	0.55
52:BT:25:GLY:HA2	52:BT:92:GLY:HA2	1.87	0.55
52:DT:85:LYS:HZ2	52:DT:85:LYS:HB3	1.68	0.55
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	2.16	0.55
5:CE:91:LEU:HD13	5:CE:120:THR:HG22	1.87	0.55
24:AY:417:THR:O	24:AY:419:ALA:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:132:LYS:HG2	52:DT:133:GLU:H	1.71	0.55
24:AY:553:GLY:HA2	24:AY:560:VAL:HG23	1.89	0.55
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HG3	1.88	0.55
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.06	0.55
38:DD:26:LYS:HE2	38:DD:26:LYS:HA	1.87	0.55
40:BF:174:VAL:HG21	40:BF:189:THR:HG21	1.88	0.55
35:BA:2170:A:H5''	37:BC:135:ARG:HH21	1.70	0.55
35:BA:2657:A:H2'	35:BA:2658:C:C5'	2.37	0.55
35:DA:936:C:H2'	35:DA:937:U:H6	1.70	0.55
34:B9:31:LYS:HD3	35:BA:2478:A:OP1	2.06	0.55
1:AA:277:C:O2'	1:AA:278:G:H5'	2.06	0.55
1:AA:275:G:H5''	17:AQ:14:LYS:CB	2.34	0.55
30:B5:27:PRO:CG	55:BW:23:LEU:HD11	2.35	0.55
10:CJ:18:ALA:O	10:CJ:20:ALA:N	2.36	0.55
4:CD:159:ARG:HH11	4:CD:159:ARG:HG3	1.71	0.55
24:AY:624:LEU:HD11	24:AY:655:TYR:OH	2.06	0.55
35:BA:962:G:H2'	35:BA:963:U:O4'	2.07	0.55
36:BB:20:C:H2'	36:BB:21:G:C5'	2.36	0.55
36:DB:22:U:H2'	36:DB:23:G:C8	2.42	0.55
3:AC:136:GLN:C	3:AC:138:VAL:N	2.58	0.55
35:BA:1115:G:H2'	35:BA:1116:C:C6	2.41	0.55
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.55	0.55
58:BZ:14:LYS:O	58:BZ:18:LEU:HD13	2.06	0.55
35:BA:55:G:H2'	35:BA:56:A:C8	2.41	0.55
35:DA:1491:G:N2	35:DA:1492:G:H1'	2.21	0.55
22:AW:16:C:H3'	22:AW:17:C:O2	2.06	0.55
1:CA:505:G:H2'	1:CA:506:G:C8	2.41	0.55
19:CS:46:GLY:O	19:CS:48:THR:N	2.39	0.55
10:AJ:29:ARG:HG2	10:AJ:29:ARG:HH11	1.72	0.55
35:DA:1151:G:H5''	53:DU:81:HIS:CE1	2.41	0.55
50:DR:103:ARG:HD2	55:DW:40:ASN:HD21	1.71	0.55
7:AG:121:ALA:O	7:AG:125:MET:HG3	2.07	0.55
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.07	0.55
35:DA:510:C:OP1	35:DA:510:C:H3'	2.05	0.55
35:DA:67:U:H2'	35:DA:68:G:H8	1.71	0.55
41:BG:38:VAL:HG22	41:BG:93:THR:HG23	1.89	0.55
35:DA:1084:A:OP1	43:DJ:55:UNK:HA	2.07	0.55
4:AD:9:CYS:HB3	4:AD:32:ALA:HB2	1.89	0.55
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.40	0.55
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.36	0.55
39:DE:133:LYS:C	39:DE:134:ILE:HG13	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:3:GLN:NE2	9:AI:20:ARG:NH2	2.55	0.55
34:B9:4:ARG:HH12	35:BA:2477:C:N4	2.04	0.55
48:BP:66:GLY:O	48:BP:67:MET:HB3	2.06	0.55
57:DY:13:VAL:O	57:DY:24:VAL:HA	2.06	0.55
57:DY:3:VAL:O	57:DY:3:VAL:HG12	2.06	0.55
58:DZ:10:ARG:CD	58:DZ:36:LYS:HE2	2.24	0.55
40:DF:206:ILE:HG22	40:DF:207:GLY:N	2.22	0.55
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	1.89	0.55
57:BY:90:LEU:HD12	57:BY:91:GLU:OE2	2.05	0.55
50:DR:83:ILE:O	50:DR:87:TYR:HE2	1.89	0.55
37:DC:128:LEU:CD2	37:DC:132:LEU:HD12	2.37	0.55
31:B6:15:GLU:OE2	31:B6:44:ARG:CZ	2.55	0.55
12:AL:70:ILE:HG21	12:AL:77:LEU:CD1	2.37	0.55
39:BE:38:THR:CB	39:BE:41:LYS:HG2	2.34	0.55
3:AC:154:SER:OG	3:AC:155:GLY:N	2.40	0.55
35:DA:941:A:H4'	48:DP:35:HIS:HE1	1.71	0.55
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.41	0.55
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.06	0.55
48:DP:112:LEU:H	48:DP:128:HIS:CD2	2.24	0.55
2:CB:235:SER:O	2:CB:237:ALA:N	2.29	0.55
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.41	0.55
47:BO:47:ILE:O	47:BO:48:PRO:O	2.24	0.55
35:DA:2291:U:H2'	35:DA:2292:C:H6	1.68	0.55
20:CT:26:ASN:O	20:CT:30:LYS:HB2	2.07	0.55
35:BA:674:G:C1'	40:BF:74:ARG:HD3	2.37	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.20	0.55
17:AQ:44:ALA:HA	17:AQ:71:PHE:O	2.07	0.55
1:CA:728:A:H2'	1:CA:729:A:C8	2.42	0.55
40:DF:69:HIS:CD2	40:DF:69:HIS:N	2.73	0.55
35:DA:1678:G:H22	35:DA:1989:G:H22	1.50	0.55
38:DD:146:GLU:HB2	38:DD:189:CYS:HB3	1.88	0.55
35:DA:675:A:OP1	40:DF:63:LYS:HE2	2.06	0.55
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.06	0.55
1:AA:942:G:H21	9:AI:124:GLN:HE22	1.52	0.55
1:AA:663:A:O2'	1:AA:664:G:H5'	2.07	0.55
12:CL:25:PRO:C	12:CL:27:LEU:N	2.57	0.55
39:DE:93:VAL:HG12	39:DE:175:VAL:HG21	1.89	0.55
29:B4:48:ARG:O	29:B4:49:PHE:CD1	2.59	0.55
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.35	0.55
57:BY:3:VAL:HG12	57:BY:3:VAL:O	2.07	0.55
36:BB:104:U:O3'	58:BZ:72:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:82:G:C5'	35:BA:296:C:H5'	2.35	0.55
35:BA:1992:G:N2	35:BA:1996:C:O2	2.32	0.55
38:BD:176:ARG:CG	38:BD:176:ARG:HH11	2.19	0.55
25:D0:25:ARG:HD2	25:D0:29:GLN:HE21	1.71	0.55
12:AL:47:LYS:HB3	12:AL:47:LYS:HZ2	1.70	0.55
27:B2:20:GLU:HG3	27:B2:21:LEU:N	2.22	0.55
35:DA:120:U:O2'	35:DA:149:A:C8	2.56	0.55
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.42	0.55
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.27	0.55
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.72	0.55
43:BJ:13:UNK:C	43:BJ:15:UNK:N	2.66	0.55
24:CY:182:ARG:O	24:CY:184:LYS:N	2.40	0.55
5:CE:107:ARG:HG2	5:CE:108:ALA:N	2.19	0.55
1:AA:759:A:H2'	1:AA:760:G:H5'	1.87	0.55
35:DA:250:G:H2'	35:DA:251:A:C8	2.42	0.55
3:CC:164:ARG:NH2	3:CC:166:GLU:OE1	2.39	0.55
1:CA:651:C:H2'	1:CA:652:U:C6	2.41	0.55
19:CS:53:ASN:C	19:CS:55:LYS:H	2.10	0.55
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.40	0.55
49:DQ:116:GLU:O	49:DQ:120:ILE:HG12	2.06	0.55
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.71	0.55
42:DH:173:PRO:O	42:DH:175:LYS:N	2.40	0.55
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.64	0.55
24:CY:649:LEU:CD2	24:CY:671:MET:HE3	2.37	0.55
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.07	0.55
40:BF:157:VAL:HG22	40:BF:194:MET:HA	1.89	0.55
53:BU:66:ASN:ND2	53:BU:76:TYR:H	2.05	0.55
31:B6:27:LYS:NZ	31:B6:30:THR:HB	2.21	0.55
48:BP:48:PRO:O	48:BP:50:ARG:N	2.39	0.55
19:CS:5:LEU:HG	19:CS:10:PHE:CD1	2.41	0.55
35:DA:82:G:H5''	35:DA:296:C:C5'	2.33	0.55
57:DY:13:VAL:HG22	57:DY:14:LEU:H	1.71	0.55
31:D6:9:LEU:HD12	31:D6:28:ARG:CG	2.36	0.55
30:D5:3:LYS:HG2	35:DA:747:U:O4	2.06	0.55
40:DF:7:TYR:HD2	40:DF:16:GLY:CA	2.14	0.55
24:CY:77:HIS:CD2	24:CY:277:VAL:HG21	2.41	0.55
3:CC:62:ASP:O	3:CC:64:VAL:HG23	2.06	0.55
47:BO:115:VAL:CG1	47:BO:121:VAL:HG21	2.37	0.55
47:BO:60:ALA:HA	47:BO:87:ILE:HD13	1.89	0.55
35:BA:28:A:H62	35:BA:512:G:H1'	1.72	0.55
36:DB:7:G:C3'	36:DB:8:U:H5''	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:624:C:H41	48:BP:107:LYS:HZ3	1.55	0.55
30:D5:50:GLY:HA2	30:D5:56:LYS:HB3	1.88	0.55
41:DG:37:VAL:O	41:DG:94:LEU:HB2	2.07	0.55
39:DE:34:VAL:HG12	39:DE:48:GLN:O	2.06	0.55
11:AK:122:LYS:O	11:AK:123:LYS:C	2.44	0.55
49:BQ:59:ARG:CA	58:BZ:180:VAL:HG23	2.35	0.55
52:DT:55:ASN:HD22	52:DT:58:ASN:ND2	2.04	0.55
24:AY:150:ILE:C	24:AY:152:THR:H	2.10	0.55
9:AI:82:ALA:HA	9:AI:85:LEU:HD11	1.89	0.55
35:DA:1539:G:H2'	35:DA:1540:U:O4'	2.07	0.55
1:AA:1342:C:H1'	9:AI:124:GLN:HG3	1.88	0.55
51:BS:49:VAL:HG21	51:BS:77:ALA:HB2	1.88	0.55
35:DA:1477:A:H5'	35:DA:1478:G:OP2	2.07	0.55
35:DA:883:G:O2'	35:DA:884:C:H5'	2.07	0.55
35:DA:958:U:H5'	49:DQ:14:ARG:NH1	2.21	0.55
33:B8:23:VAL:CG1	33:B8:46:ARG:HH11	2.19	0.55
24:AY:528:ALA:HB3	24:AY:567:LEU:O	2.07	0.55
33:D8:23:VAL:CG1	33:D8:46:ARG:HH11	2.19	0.55
3:CC:126:ARG:HB2	3:CC:128:PHE:CE2	2.41	0.55
47:DO:63:VAL:O	47:DO:64:ARG:HG2	2.07	0.55
42:BH:124:GLU:CG	42:BH:132:ARG:HG3	2.36	0.55
24:AY:390:VAL:HG23	24:AY:391:GLY:O	2.07	0.55
1:CA:261:U:H2'	1:CA:263:A:OP2	2.06	0.55
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.07	0.55
1:CA:1294:G:C2'	1:CA:1295:G:H5'	2.36	0.55
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE3	1.87	0.55
35:DA:1669:A:H2'	35:DA:1670:C:H5'	1.88	0.55
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.06	0.55
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.07	0.55
41:BG:49:ASP:O	41:BG:50:ALA:HB3	2.06	0.55
41:DG:18:GLU:OE2	41:DG:18:GLU:HA	2.06	0.55
54:BV:54:GLY:O	54:BV:55:ALA:HB2	2.07	0.55
35:BA:705:A:N1	35:BA:727:A:H1'	2.22	0.55
54:DV:66:ARG:CZ	54:DV:88:ARG:HH21	2.19	0.55
13:AM:33:ALA:HA	13:AM:59:TYR:HE2	1.70	0.55
26:B1:18:ILE:CD1	26:B1:37:ILE:HG12	2.36	0.55
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.05	0.55
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.06	0.55
35:BA:790:C:H5'	35:BA:791:C:OP2	2.07	0.55
1:CA:93:G:O2'	1:CA:96:U:H5'	2.05	0.55
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:92:ALA:HB2	37:BC:154:ILE:HD13	1.87	0.55
1:CA:693:G:C6	23:CX:13:A:H1'	2.42	0.55
53:BU:59:ARG:O	53:BU:62:ILE:N	2.40	0.55
33:B8:47:LYS:HZ3	33:B8:49:VAL:HG13	1.72	0.55
48:BP:67:MET:O	48:BP:68:GLN:HG3	2.07	0.55
57:BY:13:VAL:HG22	57:BY:14:LEU:H	1.71	0.55
56:DX:10:ALA:HB1	56:DX:11:PRO:HD2	1.89	0.55
41:DG:111:LEU:HB3	41:DG:117:PHE:CE2	2.41	0.55
38:BD:241:PRO:O	38:BD:242:ARG:CB	2.54	0.55
5:AE:79:GLU:HB3	5:AE:93:PRO:HD2	1.89	0.55
30:B5:3:LYS:NZ	35:BA:2613:U:C2'	2.70	0.55
35:BA:1156:A:C2'	35:BA:1157:G:OP1	2.55	0.55
48:BP:102:ARG:CB	48:BP:102:ARG:NH2	2.69	0.55
51:BS:36:TYR:O	51:BS:37:ALA:HB2	2.07	0.55
39:BE:77:ILE:HG22	39:BE:78:LEU:HD12	1.89	0.55
27:B2:38:GLN:C	27:B2:40:SER:H	2.10	0.55
54:DV:61:VAL:HG22	54:DV:63:GLY:H	1.72	0.55
52:DT:29:ARG:HG2	52:DT:85:LYS:CA	2.37	0.55
58:BZ:179:ASP:O	58:BZ:180:VAL:C	2.44	0.55
36:DB:103:G:H5''	36:DB:104:U:OP2	2.05	0.55
26:D1:86:SER:HA	26:D1:89:GLU:CD	2.27	0.55
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.06	0.55
2:AB:12:GLU:HA	2:AB:16:HIS:CG	2.42	0.55
9:AI:7:THR:O	9:AI:83:ARG:HD2	2.07	0.55
37:DC:190:ILE:O	37:DC:194:ILE:HG12	2.07	0.55
1:AA:1308:U:H5''	13:AM:98:VAL:CG2	2.35	0.55
36:DB:114:C:H2'	36:DB:115:G:C8	2.42	0.55
24:CY:15:ILE:C	24:CY:15:ILE:HD12	2.27	0.55
24:AY:406:GLU:HB3	24:AY:407:PRO:CD	2.35	0.55
24:AY:687:LEU:O	24:AY:689:LYS:N	2.40	0.55
35:BA:2543:G:N3	35:BA:2765:A:H2'	2.22	0.55
35:DA:2543:G:N3	35:DA:2765:A:H2'	2.22	0.55
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.72	0.55
1:CA:474:G:H2'	1:CA:475:G:C8	2.40	0.55
35:DA:389:G:N1	48:DP:71:VAL:HG12	2.21	0.55
3:AC:126:ARG:HB2	3:AC:128:PHE:CE2	2.42	0.55
26:B1:68:PRO:O	26:B1:70:VAL:N	2.39	0.55
35:BA:2247:A:O2'	35:BA:2248:C:H5'	2.06	0.55
54:BV:32:THR:OG1	54:BV:60:GLU:HG3	2.07	0.55
35:DA:271(F):C:O2'	35:DA:271(G):C:H5'	2.05	0.55
7:AG:64:GLN:HG3	7:AG:128:ALA:HB1	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:8:LYS:HE3	35:DA:245:G:O6	2.07	0.55
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.06	0.55
16:CP:75:ARG:O	16:CP:78:GLY:N	2.39	0.55
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.89	0.55
1:AA:936:C:O2'	1:AA:937:A:H5'	2.07	0.55
35:DA:271(B):C:O2'	35:DA:271(C):C:H5'	2.07	0.55
11:CK:105:VAL:O	11:CK:105:VAL:HG23	2.06	0.55
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.44	0.55
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.25	0.55
1:CA:961:U:O2	1:CA:983:A:H2'	2.06	0.55
42:DH:157:TYR:CE1	42:DH:171:LEU:HD21	2.24	0.55
40:DF:25:PRO:HG3	40:DF:119:ARG:CB	2.36	0.55
41:BG:144:ILE:HD11	41:BG:149:VAL:HB	1.89	0.55
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	2.06	0.55
37:BC:149:ASN:HD21	37:BC:153:ILE:HD11	1.72	0.55
1:CA:509:A:C2	1:CA:510:A:C2	2.95	0.55
35:BA:768:G:H2'	35:BA:769:G:H8	1.72	0.55
35:DA:2733:A:O2'	35:DA:2734:A:H5'	2.07	0.55
35:BA:1047:G:N2	35:BA:1110:G:H1'	2.21	0.55
1:CA:1318:A:O3'	19:CS:10:PHE:CD2	2.60	0.55
57:DY:86:ARG:HB3	57:DY:88:LYS:NZ	2.21	0.55
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.22	0.55
35:BA:1506:C:O2	35:BA:1506:C:H2'	2.06	0.55
29:D4:9:LEU:HD13	29:D4:26:SER:O	2.07	0.55
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.89	0.55
40:DF:10:PRO:HG2	40:DF:13:SER:OG	2.06	0.55
40:DF:8:GLN:NE2	40:DF:9:ILE:HB	2.21	0.55
41:BG:165:THR:O	41:BG:167:GLU:N	2.40	0.55
35:BA:811:U:O2'	35:BA:812:C:H5''	2.05	0.55
35:BA:1858:G:H2'	35:BA:1883:G:H22	1.71	0.55
48:DP:107:LYS:HG3	48:DP:107:LYS:O	2.07	0.55
46:DN:46:VAL:CG1	46:DN:47:ALA:H	2.13	0.55
41:DG:37:VAL:HG22	41:DG:159:VAL:HA	1.88	0.55
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.26	0.55
35:DA:1141:U:H5''	46:DN:63:THR:CG2	2.36	0.55
39:DE:111:ARG:CZ	50:DR:2:ARG:HH21	2.20	0.55
2:CB:223:ILE:HG12	2:CB:226:ARG:NH1	2.22	0.55
2:AB:31:TYR:O	2:AB:42:ILE:HG13	2.07	0.55
19:CS:65:ASN:HA	29:D4:48:ARG:NH2	2.21	0.55
24:CY:491:VAL:HG21	24:CY:597:GLY:HA2	1.87	0.55
35:BA:1336:A:P	56:BX:64:LYS:HE3	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:300:A:H2'	1:AA:301:G:O4'	2.07	0.55
29:B4:53:GLU:OE1	29:B4:55:ARG:HD3	2.06	0.55
40:DF:161:GLU:O	40:DF:165:ARG:HG3	2.06	0.55
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.07	0.55
1:CA:179:A:H2'	1:CA:180:U:H6	1.68	0.55
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.42	0.55
56:DX:8:ILE:H	56:DX:8:ILE:CD1	2.17	0.55
22:CV:1:C:H2'	22:CV:2:G:C8	2.42	0.55
35:DA:752:A:O2'	35:DA:753:C:OP2	2.21	0.55
20:CT:49:ALA:CB	20:CT:99:LEU:HG	2.36	0.55
1:CA:1166:G:H5'	1:CA:1168:A:OP2	2.07	0.55
36:DB:68:C:H2'	36:DB:69:G:O4'	2.07	0.55
35:BA:2132:U:C5	37:BC:6:LYS:HD2	2.41	0.55
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.42	0.55
50:BR:7:GLY:O	50:BR:8:ARG:CB	2.54	0.55
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.22	0.55
24:CY:427:ALA:HB1	24:CY:466:LEU:HD11	1.88	0.55
1:CA:658:G:H2'	1:CA:659:U:C6	2.42	0.55
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.89	0.55
1:CA:54:C:H2'	1:CA:352:C:N4	2.21	0.55
37:DC:213:VAL:CG1	37:DC:225:ILE:HD11	2.37	0.55
35:BA:221:A:H4'	35:BA:222:A:O5'	2.07	0.55
35:DA:1668:A:N6	35:DA:1676:A:H61	2.05	0.55
35:DA:2552:U:O2	35:DA:2554:U:H5'	2.07	0.55
35:BA:1274:A:N3	35:BA:1297:C:H1'	2.21	0.55
24:CY:111:SER:O	24:CY:113:GLY:N	2.39	0.55
35:DA:2532:G:H2'	35:DA:2533:A:O4'	2.07	0.55
35:BA:1316:U:O2'	35:BA:1317:A:H5'	2.06	0.55
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.72	0.55
35:BA:271(B):C:O2'	35:BA:271(C):C:H5'	2.07	0.55
35:BA:1759:A:H5'	35:BA:2715:C:H1'	1.89	0.55
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.41	0.55
22:AW:41:C:O2'	22:AW:42:C:H5'	2.07	0.55
40:DF:140:LEU:O	40:DF:143:ALA:HB3	2.06	0.55
1:CA:796:C:O2	1:CA:796:C:H2'	2.07	0.55
35:BA:845:G:H8	35:BA:845:G:OP2	1.89	0.55
35:BA:2051:A:H4'	39:BE:141:ILE:CD1	2.37	0.55
4:CD:26:CYS:O	4:CD:31:CYS:HB2	2.07	0.55
35:BA:612:C:H2'	35:BA:613:G:C5'	2.15	0.55
40:BF:206:ILE:HG22	40:BF:207:GLY:N	2.21	0.55
39:DE:119:ARG:HG2	39:DE:160:TYR:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:156:ARG:HB2	24:AY:157:LEU:HD23	1.88	0.55
24:AY:18:ALA:HA	24:AY:85:PRO:HG2	1.88	0.55
35:BA:1044:G:O2'	35:BA:1045:A:H5''	2.07	0.55
38:DD:35:LYS:HG2	38:DD:63:ARG:HG3	1.89	0.55
56:DX:12:VAL:O	56:DX:13:LEU:HB2	2.07	0.55
35:DA:82:G:C5'	35:DA:296:C:H5'	2.34	0.55
47:BO:9:GLU:HA	47:BO:9:GLU:OE1	2.06	0.55
31:B6:16:CYS:SG	31:B6:48:VAL:CG2	2.95	0.55
24:AY:35:TYR:HE1	24:AY:269:VAL:HB	1.70	0.55
35:BA:1301:A:H2'	35:BA:1302:A:H3'	1.88	0.55
3:AC:62:ASP:O	3:AC:64:VAL:HG23	2.07	0.55
35:BA:27:G:HO2'	35:BA:28:A:H8	1.52	0.55
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.75	0.55
26:B1:80:LEU:HB3	26:B1:82:LEU:HD11	1.88	0.55
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.41	0.55
34:B9:19:ARG:HB2	35:BA:2756:U:H5'	1.89	0.55
19:AS:33:THR:HG22	19:AS:49:ILE:HG22	1.87	0.55
39:DE:70:ALA:O	39:DE:71:GLY:C	2.46	0.55
5:CE:12:LEU:HD13	5:CE:12:LEU:C	2.26	0.55
19:CS:44:MET:HB3	19:CS:47:HIS:HD2	1.72	0.55
49:BQ:53:ALA:HA	49:BQ:56:ARG:HB2	1.89	0.55
13:CM:70:LEU:C	13:CM:70:LEU:HD23	2.27	0.55
42:DH:68:THR:O	42:DH:70:THR:N	2.40	0.55
52:DT:99:LEU:HB2	52:DT:101:PHE:CE1	2.42	0.55
58:BZ:80:ARG:O	58:BZ:81:ARG:O	2.25	0.55
56:BX:61:GLY:HA3	56:BX:73:ARG:O	2.07	0.55
42:DH:41:MET:O	42:DH:42:ARG:CB	2.54	0.55
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.36	0.55
1:CA:1030(C):G:H2'	1:CA:1030(D):A:H8	1.71	0.55
26:D1:61:ARG:NH1	26:D1:61:ARG:HB3	2.22	0.55
1:CA:1351:U:O4'	7:CG:33:ASP:HB3	2.07	0.55
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.42	0.55
12:CL:39:VAL:HB	12:CL:57:LYS:HB2	1.89	0.55
1:AA:628:G:O2'	1:AA:629:G:H5'	2.07	0.55
42:DH:124:GLU:CG	42:DH:132:ARG:HG3	2.37	0.55
38:BD:166:GLN:HA	38:BD:166:GLN:NE2	2.21	0.55
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.88	0.55
1:CA:188:C:H2'	1:CA:189:G:C8	2.42	0.55
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.37	0.55
35:BA:1212:G:O2'	35:BA:1236:G:N2	2.39	0.55
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1437:C:H2'	35:BA:1438:U:C6	2.42	0.55
55:DW:1:MET:CE	55:DW:2:GLU:H	2.20	0.55
1:AA:38:G:C2	1:AA:397:A:C2	2.94	0.55
19:AS:72:GLY:O	19:AS:74:PHE:N	2.40	0.55
52:BT:60:THR:HG22	52:BT:77:PRO:HA	1.89	0.55
46:BN:30:ILE:HG22	46:BN:34:LEU:CD2	2.37	0.55
24:AY:105:ILE:N	24:AY:105:ILE:HD12	2.21	0.55
35:BA:2792:G:N3	35:BA:2792:G:H2'	2.22	0.55
35:DA:1047:G:N2	35:DA:1110:G:H1'	2.21	0.55
24:CY:142:THR:C	24:CY:144:ALA:H	2.10	0.55
24:AY:22:ASP:O	62:AY:703:GDP:H5'	2.07	0.55
24:AY:86:GLY:O	24:AY:88:VAL:N	2.37	0.55
46:DN:3:THR:C	46:DN:4:TYR:CG	2.80	0.55
53:BU:106:PHE:O	53:BU:109:LEU:N	2.40	0.55
48:BP:30:THR:O	48:BP:33:ARG:N	2.27	0.55
31:D6:7:ILE:O	31:D6:27:LYS:HD3	2.07	0.55
31:D6:27:LYS:HZ2	31:D6:30:THR:HB	1.70	0.55
41:DG:60:LEU:HD22	41:DG:63:ILE:CD1	2.36	0.55
10:CJ:3:LYS:NZ	10:CJ:76:ASN:HA	2.20	0.55
1:AA:945:G:C2	1:AA:946:A:C8	2.94	0.55
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.39	0.55
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.22	0.55
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.10	0.55
46:BN:15:LEU:HD13	46:BN:16:ILE:N	2.21	0.55
48:DP:127:ALA:HB3	48:DP:130:PHE:CZ	2.42	0.55
48:DP:127:ALA:O	48:DP:148:LEU:HD11	2.06	0.55
48:BP:146:VAL:HG22	48:BP:147:LEU:N	2.12	0.55
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.89	0.55
35:DA:2746:U:O2'	35:DA:2747:G:H5'	2.06	0.55
50:DR:45:ARG:CG	50:DR:46:GLY:H	2.15	0.55
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.07	0.55
2:AB:223:ILE:HG12	2:AB:226:ARG:NH1	2.22	0.55
6:AF:71:ARG:NH1	6:AF:71:ARG:HG3	2.20	0.55
52:BT:10:VAL:C	52:BT:12:SER:N	2.57	0.55
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.37	0.55
35:BA:1332:G:N2	35:BA:1609:A:H3'	2.22	0.55
40:BF:161:GLU:O	40:BF:165:ARG:HG3	2.06	0.55
1:AA:1300:G:O2'	1:AA:1301:U:P	2.64	0.55
24:AY:326:THR:O	24:AY:328:ILE:HG23	2.07	0.55
35:DA:654(L):G:H2'	35:DA:654(M):C:H4'	1.88	0.55
18:AR:74:ARG:HD3	18:AR:81:PHE:HD2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:6:GLY:O	13:CM:8:GLU:N	2.40	0.55
35:BA:15:G:O2'	35:BA:16:G:H5'	2.06	0.55
42:DH:127:GLU:HB3	42:DH:128:PRO:HD2	1.89	0.55
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.07	0.55
48:DP:108:LYS:HD2	48:DP:108:LYS:N	2.22	0.55
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.21	0.55
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.70	0.55
35:DA:2818:G:O2'	35:DA:2837:G:H5'	2.07	0.55
16:AP:50:LYS:HG2	16:AP:51:VAL:H	1.71	0.55
41:DG:10:LYS:HE3	41:DG:14:GLU:OE2	2.06	0.55
24:CY:309:LEU:O	24:CY:390:VAL:HG12	2.07	0.55
35:BA:1102:C:H2'	35:BA:1103:A:H8	1.72	0.55
57:BY:67:LEU:HD11	57:BY:71:LYS:HE2	1.87	0.55
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.21	0.55
35:BA:1092:C:H2'	35:BA:1093:G:H8	1.72	0.55
6:AF:4:TYR:HE1	6:AF:92:LYS:HD2	1.71	0.55
1:AA:820:U:H4'	1:AA:821:G:OP2	2.07	0.55
35:DA:438:G:O2'	35:DA:440:G:H5'	2.07	0.55
35:DA:58:G:H1	35:DA:69:C:H42	1.53	0.55
1:CA:241:C:O2'	1:CA:242:C:H5'	2.07	0.55
47:DO:52:VAL:O	47:DO:53:LYS:HG3	2.07	0.55
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.89	0.55
3:AC:101:LEU:C	3:AC:101:LEU:HD23	2.28	0.55
24:AY:550:MET:CE	24:AY:563:ILE:HD11	2.37	0.55
24:CY:96:ARG:HG3	24:CY:403:GLU:OE2	2.07	0.55
35:BA:2336:A:N3	35:BA:2385:C:H1'	2.22	0.55
1:CA:395:C:O3'	24:CY:349:LYS:NZ	2.39	0.55
35:BA:1205:U:C5	40:BF:171:PRO:HA	2.42	0.55
24:AY:121:VAL:HA	24:AY:124:GLN:HE22	1.72	0.54
35:BA:1245:G:C5'	40:BF:34:TRP:HZ2	2.20	0.54
54:DV:38:LEU:H	54:DV:51:VAL:HG13	1.72	0.54
35:BA:272(H):C:C5'	35:BA:272(H):C:H6	2.18	0.54
57:BY:96:ILE:CG2	57:BY:99:CYS:HB3	2.37	0.54
5:AE:76:ILE:CG2	5:AE:118:ILE:HD13	2.37	0.54
5:AE:143:ARG:HH12	8:AH:77:GLU:CD	2.10	0.54
50:BR:85:PRO:C	50:BR:87:TYR:H	2.10	0.54
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.87	0.54
2:CB:114:ARG:HD2	2:CB:118:LEU:HG	1.89	0.54
6:AF:37:VAL:HG12	6:AF:38:GLU:O	2.07	0.54
20:AT:13:LEU:O	20:AT:16:HIS:N	2.40	0.54
35:BA:2230:G:H2'	35:BA:2231:C:H6	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:13:ASP:O	19:AS:15:LEU:N	2.40	0.54
35:BA:2820:A:C8	39:BE:191:PRO:HB2	2.42	0.54
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.07	0.54
35:BA:359:A:H2'	35:BA:360:G:O4'	2.07	0.54
52:BT:12:SER:O	52:BT:13:ARG:NH2	2.40	0.54
39:DE:94:GLU:OE2	39:DE:177:PRO:HB3	2.07	0.54
38:DD:241:PRO:O	38:DD:242:ARG:CB	2.55	0.54
46:DN:95:PRO:HA	46:DN:98:VAL:HG23	1.88	0.54
44:DK:6:ALA:O	44:DK:58:THR:HA	2.07	0.54
26:D1:80:LEU:HD23	26:D1:81:LYS:H	1.70	0.54
48:DP:45:LEU:HG	48:DP:46:LYS:H	1.70	0.54
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.22	0.54
39:DE:28:ALA:HB3	39:DE:93:VAL:HG22	1.90	0.54
36:BB:16:G:N2	36:BB:69:G:H1'	2.22	0.54
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.41	0.54
35:BA:961:C:N4	35:BA:2031:A:H1'	2.22	0.54
25:D0:5:LYS:HB2	49:DQ:80:GLU:O	2.07	0.54
1:AA:1101:A:H4'	1:AA:1102:A:C4'	2.37	0.54
22:CW:76:C:OP1	26:D1:30:VAL:HG21	2.06	0.54
3:AC:133:ALA:O	3:AC:137:ALA:HB2	2.06	0.54
47:DO:9:GLU:OE1	47:DO:9:GLU:HA	2.07	0.54
24:CY:539:ILE:HA	24:CY:542:VAL:CG1	2.37	0.54
35:DA:1943:U:O2'	35:DA:1944:U:H3'	2.07	0.54
35:DA:1943:U:O2'	35:DA:1944:U:O5'	2.22	0.54
35:DA:2008:C:H2'	35:DA:2009:G:C8	2.42	0.54
35:BA:208:C:H2'	35:BA:209:C:H6	1.72	0.54
35:DA:1661:G:O2'	35:DA:1662:C:H5'	2.07	0.54
37:DC:14:LYS:O	37:DC:15:VAL:HG13	2.08	0.54
35:BA:1358:G:O2'	35:BA:1359:A:H5''	2.08	0.54
37:BC:11:LEU:O	37:BC:13:GLU:N	2.40	0.54
35:BA:1556:C:H2'	35:BA:1557:C:C6	2.42	0.54
6:AF:10:LEU:HD12	6:AF:61:LEU:HD13	1.88	0.54
35:BA:74:A:O2'	35:BA:75:G:OP2	2.23	0.54
5:CE:10:MET:HG3	5:CE:32:VAL:HG22	1.88	0.54
36:BB:77:U:O2'	36:BB:78:A:H5'	2.07	0.54
22:CV:37:A:H3'	22:CV:38:A:H8	1.71	0.54
55:BW:1:MET:CE	55:BW:2:GLU:H	2.19	0.54
43:DJ:72:UNK:C	43:DJ:74:UNK:N	2.69	0.54
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.07	0.54
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.07	0.54
41:BG:63:ILE:CA	41:BG:143:GLU:HG3	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:603:GLU:OE1	24:CY:648:PRO:HB3	2.07	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.34	0.54
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.22	0.54
38:BD:61:LEU:HB3	38:BD:63:ARG:HH12	1.72	0.54
27:B2:69:ARG:HH22	35:BA:111:A:C5'	2.21	0.54
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.40	0.54
35:BA:322:A:H5'	35:BA:340:A:H1'	1.89	0.54
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.88	0.54
24:CY:282:SER:O	24:CY:284:LEU:N	2.40	0.54
51:BS:70:GLY:C	51:BS:72:ALA:H	2.10	0.54
44:DK:112:MET:HE2	44:DK:120:LEU:HD21	1.89	0.54
35:DA:110:G:O2'	35:DA:111:A:H5'	2.08	0.54
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.07	0.54
1:AA:973:G:H1'	10:AJ:55:LYS:HZ3	1.71	0.54
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.07	0.54
52:BT:3:ARG:O	52:BT:4:GLY:C	2.44	0.54
26:D1:82:LEU:C	26:D1:83:GLU:HG3	2.28	0.54
15:CO:76:GLU:O	15:CO:78:TYR:N	2.39	0.54
57:BY:44:ILE:HG22	57:BY:45:VAL:N	2.18	0.54
35:BA:1252:G:N3	53:BU:33:ARG:HD2	2.21	0.54
35:DA:1336:A:OP2	56:DX:64:LYS:HE3	2.08	0.54
38:DD:26:LYS:H	38:DD:26:LYS:HE2	1.72	0.54
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.89	0.54
58:BZ:71:VAL:HG13	58:BZ:86:VAL:CG1	2.37	0.54
39:BE:28:ALA:HB3	39:BE:93:VAL:HG22	1.88	0.54
24:AY:65:ILE:HD13	24:AY:65:ILE:H	1.71	0.54
35:DA:2067:G:H1	35:DA:2443:C:H42	1.55	0.54
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.23	0.54
35:BA:548:A:C3'	35:BA:549:G:H5'	2.38	0.54
24:AY:228:MET:HE2	24:AY:229:LEU:HG	1.90	0.54
35:DA:751:A:C5'	55:DW:90:ARG:HA	2.36	0.54
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.38	0.54
35:DA:848:G:C2	35:DA:933:A:H1'	2.41	0.54
9:CI:40:LEU:CD1	9:CI:70:LYS:HG2	2.35	0.54
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.42	0.54
35:BA:1788:C:H2'	35:BA:1789:A:H8	1.71	0.54
24:AY:610:VAL:HG12	24:AY:669:PHE:HB3	1.88	0.54
42:DH:86:GLU:HB3	42:DH:132:ARG:HB3	1.88	0.54
1:CA:1347:G:O2'	1:CA:1348:U:P	2.65	0.54
54:BV:1:MET:HA	54:BV:1:MET:HE2	1.89	0.54
58:BZ:63:ASP:OD2	58:BZ:65:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:135:G:O2'	35:DA:136:G:H5'	2.07	0.54
35:DA:2839:G:H2'	35:DA:2840:C:C6	2.42	0.54
35:BA:1404:C:O2'	35:BA:1405:U:H5'	2.07	0.54
1:AA:1008:C:H2'	1:AA:1009:G:H8	1.71	0.54
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.73	0.54
43:DJ:146:UNK:C	43:DJ:148:UNK:N	2.69	0.54
35:DA:426:C:O2'	35:DA:427:U:H5'	2.06	0.54
27:D2:29:LYS:HZ2	56:DX:3:THR:N	2.06	0.54
43:BJ:52:UNK:O	43:BJ:53:UNK:CB	2.54	0.54
4:CD:150:GLU:HG2	4:CD:151:LYS:N	2.22	0.54
35:BA:2532:G:H2'	35:BA:2533:A:O4'	2.07	0.54
34:D9:10:ILE:O	34:D9:11:CYS:HB3	2.06	0.54
35:DA:271(K):U:H3'	35:DA:271(L):U:H5''	1.88	0.54
1:AA:961:U:O2	1:AA:983:A:H2'	2.08	0.54
24:AY:359:HIS:O	24:AY:361:ASN:N	2.40	0.54
48:BP:135:LEU:HD13	48:BP:135:LEU:O	2.06	0.54
35:DA:1287:A:H2'	35:DA:1287:A:N3	2.20	0.54
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.88	0.54
9:CI:4:TYR:CE2	9:CI:59:PHE:HE2	2.26	0.54
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.32	0.54
35:DA:993:G:OP1	53:DU:50:ARG:HD2	2.07	0.54
24:AY:286:ILE:N	24:AY:286:ILE:HD12	2.23	0.54
33:B8:32:LEU:HB3	33:B8:36:LYS:NZ	2.22	0.54
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.22	0.54
57:DY:94:LYS:O	57:DY:102:CYS:HB2	2.06	0.54
57:DY:15:VAL:O	57:DY:22:GLY:N	2.40	0.54
35:BA:110:G:O2'	35:BA:111:A:H5'	2.06	0.54
41:DG:57:ALA:O	41:DG:68:PRO:HG2	2.07	0.54
57:BY:91:GLU:O	57:BY:92:ASN:HB2	2.07	0.54
35:BA:1902:C:H2'	35:BA:1903:G:O4'	2.06	0.54
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.06	0.54
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.32	0.54
48:BP:38:GLN:HG3	48:BP:39:LYS:N	2.12	0.54
8:CH:103:VAL:HG23	8:CH:110:ALA:HB2	1.89	0.54
35:DA:1301:A:H2'	35:DA:1302:A:H3'	1.88	0.54
35:DA:28:A:H62	35:DA:512:G:H1'	1.72	0.54
36:DB:7:G:H5'	51:DS:29:PHE:CD1	2.41	0.54
35:DA:941:A:H4'	48:DP:35:HIS:CE1	2.42	0.54
26:B1:85:LEU:O	26:B1:87:PRO:HD2	2.08	0.54
48:DP:100:LEU:HA	48:DP:103:ALA:HB3	1.87	0.54
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:107:LYS:C	48:BP:109:GLY:H	2.09	0.54
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.07	0.54
30:D5:56:LYS:CG	30:D5:57:VAL:H	2.05	0.54
44:BK:29:GLN:O	44:BK:59:ILE:HD12	2.07	0.54
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.89	0.54
39:DE:55:ASN:O	39:DE:57:LYS:N	2.33	0.54
35:BA:2245:U:C5'	35:BA:2246:G:H5'	2.33	0.54
1:CA:1198:G:H2'	1:CA:1199:U:O4'	2.06	0.54
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.89	0.54
3:AC:46:GLU:O	3:AC:47:LEU:CB	2.54	0.54
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.42	0.54
52:BT:10:VAL:O	52:BT:13:ARG:HG2	2.06	0.54
25:D0:40:GLN:HE22	25:D0:43:THR:CA	2.19	0.54
52:BT:106:SER:O	52:BT:107:ASP:CB	2.55	0.54
25:B0:51:VAL:HG21	25:B0:79:VAL:O	2.08	0.54
35:BA:260:G:H1'	35:BA:621:A:H1'	1.89	0.54
35:DA:2777:G:H5''	35:DA:2778:A:H5''	1.88	0.54
51:DS:98:VAL:CG1	51:DS:100:ALA:HB2	2.38	0.54
1:CA:663:A:O2'	1:CA:664:G:H5'	2.07	0.54
1:CA:665:A:H2'	1:CA:732:C:O2	2.07	0.54
1:CA:1060:C:H5'	14:CN:45:ARG:NH2	2.23	0.54
35:DA:2657:A:H2'	35:DA:2658:C:C5'	2.35	0.54
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.42	0.54
35:BA:936:C:H2'	35:BA:937:U:H6	1.70	0.54
42:BH:148:ILE:O	42:BH:151:ILE:HG12	2.07	0.54
24:CY:16:GLY:O	24:CY:104:ALA:CB	2.54	0.54
46:BN:65:LYS:NZ	46:BN:65:LYS:HA	2.22	0.54
49:DQ:35:VAL:HG22	49:DQ:36:ALA:N	2.22	0.54
44:DK:78:ILE:HD13	44:DK:134:MET:SD	2.47	0.54
8:CH:119:LEU:HD12	8:CH:124:ALA:HB2	1.88	0.54
37:BC:139:PRO:HA	37:BC:145:THR:CG2	2.37	0.54
54:DV:37:VAL:HG23	54:DV:37:VAL:O	2.07	0.54
1:AA:715:A:H2'	1:AA:716:A:H8	1.71	0.54
24:CY:507:TYR:CD1	24:CY:507:TYR:C	2.80	0.54
37:BC:190:ILE:O	37:BC:194:ILE:HG12	2.06	0.54
1:AA:1005:A:H5'	1:AA:1006:C:OP2	2.07	0.54
13:AM:77:ASN:O	13:AM:80:ARG:N	2.36	0.54
26:D1:11:ARG:NH2	35:DA:1365:A:O2'	2.40	0.54
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.72	0.54
56:DX:18:TYR:C	56:DX:20:GLY:N	2.59	0.54
7:AG:140:ASP:O	7:AG:144:MET:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:29:GLY:C	26:B1:31:GLY:N	2.61	0.54
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.27	0.54
51:BS:51:ALA:HB3	51:BS:73:LEU:HD12	1.89	0.54
1:AA:93:G:O2'	1:AA:96:U:H5'	2.06	0.54
46:BN:109:LYS:H	46:BN:109:LYS:CE	2.21	0.54
4:CD:153:ARG:HG2	4:CD:153:ARG:HH11	1.73	0.54
6:AF:47:ARG:HH11	6:AF:47:ARG:HG2	1.73	0.54
24:CY:609:GLU:CG	24:CY:670:VAL:HG21	2.38	0.54
35:DA:2733:A:H2'	35:DA:2734:A:O4'	2.08	0.54
35:BA:613:G:H5'	35:BA:613:G:C8	2.43	0.54
24:AY:250:THR:HA	24:AY:255:ILE:HG23	1.89	0.54
23:CX:11:U:H4'	23:CX:12:A:O5'	2.05	0.54
40:BF:39:TRP:CB	40:BF:101:LEU:HD22	2.37	0.54
31:B6:53:LYS:HG3	31:B6:54:ILE:HG23	1.89	0.54
57:BY:38:ILE:HG23	57:BY:39:VAL:N	2.23	0.54
41:DG:59:GLU:OE2	41:DG:138:GLN:NE2	2.40	0.54
1:CA:1005:A:H5'	1:CA:1006:C:OP2	2.07	0.54
3:CC:46:GLU:HB3	3:CC:83:ARG:HH22	1.71	0.54
31:D6:15:GLU:C	31:D6:16:CYS:O	2.45	0.54
5:CE:101:ILE:HD11	5:CE:119:LEU:HD22	1.89	0.54
35:DA:651:G:H2'	35:DA:652:C:H5'	1.88	0.54
50:DR:113:LEU:HD12	50:DR:114:VAL:H	1.72	0.54
35:DA:2000:G:O2'	35:DA:2001:A:H5'	2.06	0.54
1:AA:953:G:O6	1:AA:1228:C:N4	2.39	0.54
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.26	0.54
17:AQ:59:ILE:HG23	17:AQ:71:PHE:CB	2.34	0.54
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.16	0.54
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.18	0.54
37:DC:149:ASN:HD21	37:DC:153:ILE:HD11	1.73	0.54
1:CA:1517:G:H1'	35:DA:1919:A:O3'	2.06	0.54
41:DG:145:THR:HG21	41:DG:148:MET:HB2	1.89	0.54
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.72	0.54
29:B4:19:GLY:O	29:B4:21:VAL:HG23	2.08	0.54
38:BD:26:LYS:H	38:BD:26:LYS:HE2	1.72	0.54
35:BA:1539:G:H2'	35:BA:1540:U:O4'	2.06	0.54
35:DA:2122:U:H1'	37:DC:167:ASP:OD2	2.06	0.54
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.22	0.54
51:DS:49:VAL:HG21	51:DS:77:ALA:HB2	1.89	0.54
1:AA:631:G:H8	1:AA:631:G:H5'	1.71	0.54
35:BA:2478:A:H2'	35:BA:2479:G:O4'	2.08	0.54
32:D7:24:THR:HG23	32:D7:27:GLY:CA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:48:LYS:HB3	20:CT:51:GLU:CG	2.37	0.54
35:DA:1276:A:H1'	50:DR:16:HIS:HE1	1.73	0.54
24:AY:343:ASN:HD21	24:AY:345:THR:CB	2.20	0.54
20:CT:73:HIS:O	20:CT:74:LYS:C	2.46	0.54
1:AA:1378:C:OP1	7:AG:7:ALA:HB3	2.08	0.54
3:AC:128:PHE:O	3:AC:130:VAL:N	2.40	0.54
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.08	0.54
46:DN:55:VAL:HG22	46:DN:56:ASN:H	1.72	0.54
35:DA:2107:C:H42	35:DA:2182:G:H1	1.56	0.54
25:B0:20:ARG:CD	25:B0:20:ARG:H	2.21	0.54
35:BA:1344:G:H5'	35:BA:1384:A:C6	2.42	0.54
27:B2:55:ARG:O	27:B2:58:ALA:HB3	2.07	0.54
45:DL:15:UNK:C	45:DL:17:UNK:N	2.66	0.54
35:DA:1225:G:H2'	35:DA:1226:A:C8	2.43	0.54
2:AB:9:GLU:N	2:AB:9:GLU:OE2	2.40	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:HB3	1.73	0.54
51:DS:51:ALA:HB3	51:DS:73:LEU:HB2	1.89	0.54
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.89	0.54
35:BA:1196:C:O2'	35:BA:1227:G:H4'	2.07	0.54
35:DA:1040:C:C4	35:DA:1041:C:C4	2.95	0.54
47:BO:113:LYS:O	47:BO:117:LEU:HD12	2.07	0.54
24:CY:373:ASP:C	24:CY:374:LEU:HD12	2.28	0.54
24:CY:192:LEU:HD12	24:CY:194:THR:CG2	2.37	0.54
3:CC:141:VAL:HG12	3:CC:146:ALA:HB3	1.89	0.54
49:DQ:41:TRP:HE1	49:DQ:96:VAL:HG22	1.71	0.54
37:DC:11:LEU:O	37:DC:13:GLU:N	2.41	0.54
35:DA:1461:G:O2'	35:DA:1462:C:H5'	2.08	0.54
1:CA:759:A:H2'	1:CA:760:G:H5'	1.89	0.54
46:DN:109:LYS:H	46:DN:109:LYS:CE	2.20	0.54
41:DG:147:ASP:C	41:DG:149:VAL:H	2.11	0.54
26:D1:40:ARG:HH12	35:DA:2232:U:P	2.30	0.54
35:DA:495:G:H1'	55:DW:57:ASN:OD1	2.07	0.54
1:AA:261:U:H2'	1:AA:263:A:OP2	2.08	0.54
46:DN:30:ILE:HG22	46:DN:34:LEU:CD2	2.37	0.54
35:BA:2531:A:OP1	42:BH:177:GLY:C	2.46	0.54
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD13	1.89	0.54
24:CY:92:ILE:HG13	24:CY:405:PRO:HG2	1.86	0.54
24:AY:87:HIS:O	24:AY:88:VAL:C	2.45	0.54
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.08	0.54
40:BF:187:VAL:HG12	48:BP:7:ARG:NH2	2.22	0.54
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:157:VAL:HG12	40:DF:176:LEU:HD23	1.89	0.54
41:DG:46:ALA:HB2	41:DG:88:ILE:CG1	2.38	0.54
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.71	0.54
51:BS:98:VAL:C	51:BS:100:ALA:N	2.60	0.54
3:CC:59:ARG:CG	3:CC:64:VAL:HA	2.37	0.54
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.06	0.54
1:AA:129(A):G:H5''	1:AA:129(A):G:C8	2.42	0.54
47:DO:47:ILE:O	47:DO:48:PRO:O	2.26	0.54
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.38	0.54
48:BP:100:LEU:HA	48:BP:103:ALA:HB3	1.89	0.54
2:CB:187:LEU:HD23	2:CB:214:ILE:HG21	1.90	0.54
19:AS:29:ARG:O	19:AS:31:ILE:N	2.34	0.54
35:BA:946:G:H2'	35:BA:947:G:C8	2.42	0.54
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.90	0.54
35:BA:2299:G:O2'	35:BA:2300:G:H5'	2.06	0.54
35:BA:1947:C:H2'	35:BA:1948:G:C5'	2.32	0.54
47:DO:19:ILE:HD12	47:DO:41:ALA:HB3	1.90	0.54
58:BZ:145:GLU:O	58:BZ:147:GLY:N	2.40	0.54
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.08	0.54
38:DD:155:LEU:N	38:DD:155:LEU:HD12	2.22	0.54
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.07	0.54
1:AA:1148:U:O3'	9:AI:14:VAL:HG11	2.06	0.54
4:AD:57:ARG:HH11	4:AD:57:ARG:HG2	1.72	0.54
13:AM:6:GLY:O	13:AM:8:GLU:N	2.39	0.54
24:AY:601:ILE:HG21	24:AY:687:LEU:HD12	1.88	0.54
24:AY:608:VAL:HG13	24:AY:670:VAL:O	2.08	0.54
10:AJ:20:ALA:C	10:AJ:22:LYS:N	2.61	0.54
8:AH:119:LEU:HD12	8:AH:124:ALA:HB2	1.89	0.54
35:DA:1344:G:H5'	35:DA:1384:A:C6	2.43	0.54
1:AA:539:A:H2'	1:AA:540:G:H8	1.72	0.54
46:BN:55:VAL:HG22	46:BN:56:ASN:H	1.72	0.54
35:DA:2202:C:H2'	38:DD:151:LYS:HZ1	1.71	0.54
35:DA:1943:U:H4'	35:DA:1944:U:OP1	2.06	0.54
1:CA:956:U:O2'	1:CA:957:U:H5'	2.08	0.54
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.26	0.54
35:DA:16:G:O2'	35:DA:17:G:H5'	2.07	0.54
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.08	0.54
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.89	0.54
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.43	0.54
1:CA:675:A:O2'	1:CA:676:A:H5'	2.07	0.54
1:CA:10:A:H2'	1:CA:11:G:H8	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.71	0.54
35:BA:71:A:H4'	35:BA:72:U:H5''	1.89	0.54
35:DA:737:C:C2'	35:DA:738:G:H5'	2.38	0.54
5:CE:100:VAL:HG23	5:CE:100:VAL:O	2.07	0.54
35:DA:2142:C:O2'	35:DA:2143:C:H5'	2.08	0.54
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.28	0.54
48:DP:9:ASN:H	48:DP:10:PRO:CD	2.21	0.54
41:BG:96:ARG:O	41:BG:97:ASP:HB2	2.08	0.54
35:BA:2577:A:C5'	35:BA:2578:G:H5'	2.37	0.54
53:BU:109:LEU:O	53:BU:112:ARG:HB2	2.07	0.54
53:BU:83:LEU:HD12	53:BU:113:ALA:HB2	1.90	0.54
9:AI:4:TYR:CE2	9:AI:59:PHE:HE2	2.26	0.54
33:D8:33:ASN:HA	33:D8:36:LYS:HG3	1.88	0.54
35:BA:322:A:H3'	40:BF:169:ASN:ND2	2.22	0.54
50:DR:85:PRO:C	50:DR:87:TYR:H	2.10	0.54
24:CY:112:GLN:HG3	24:CY:115:GLU:CB	2.37	0.54
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.22	0.54
3:AC:95:THR:O	3:AC:97:LYS:N	2.41	0.54
48:DP:101:VAL:HA	48:DP:107:LYS:H	1.72	0.54
35:DA:1493:C:O2	35:DA:1493:C:H2'	2.08	0.54
26:B1:76:ARG:NH2	26:B1:95:LEU:HD13	2.23	0.54
52:DT:25:GLY:HA2	52:DT:92:GLY:HA2	1.90	0.54
35:DA:2820:A:C8	39:DE:191:PRO:HB2	2.42	0.54
1:AA:1226:C:H5''	13:AM:103:THR:CB	2.38	0.54
52:BT:29:ARG:HG2	52:BT:85:LYS:CA	2.38	0.54
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.37	0.54
19:CS:42:PRO:HB3	29:D4:50:VAL:HG21	1.89	0.54
2:CB:31:TYR:O	2:CB:42:ILE:HG13	2.08	0.54
1:CA:691:G:H2'	1:CA:692:U:C6	2.43	0.54
11:CK:122:LYS:O	11:CK:123:LYS:C	2.46	0.54
1:CA:393:A:O2'	1:CA:394:G:H5'	2.07	0.54
46:DN:66:LYS:O	46:DN:67:LEU:HD23	2.08	0.54
49:DQ:27:VAL:HG12	49:DQ:28:ALA:N	2.21	0.54
4:AD:192:GLU:O	4:AD:193:ASP:C	2.45	0.54
38:DD:27:THR:HG23	38:DD:27:THR:O	2.07	0.54
26:D1:45:ASN:HB3	26:D1:64:ALA:HB2	1.89	0.54
36:DB:66:A:N6	36:DB:108:U:H2'	2.22	0.54
20:CT:104:LEU:HD23	20:CT:104:LEU:C	2.28	0.54
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.71	0.54
4:CD:61:LYS:CE	4:CD:62:GLN:HE21	2.21	0.54
35:BA:64:A:H2'	35:BA:65:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:6:GLY:C	13:CM:8:GLU:N	2.59	0.54
28:B3:45:GLY:HA3	35:BA:851:U:O2'	2.06	0.54
57:BY:59:GLY:O	57:BY:60:PHE:HB2	2.07	0.54
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.37	0.54
1:AA:1166:G:H5'	1:AA:1168:A:OP2	2.07	0.54
35:DA:2617:C:O2'	35:DA:2618:G:H5'	2.07	0.54
16:CP:4:ILE:HG13	16:CP:64:ALA:HB1	1.90	0.54
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.22	0.54
35:BA:2749:A:N1	35:BA:2750:A:N6	2.56	0.54
55:DW:25:ARG:NH2	55:DW:74:ALA:O	2.40	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:H	1.55	0.54
35:DA:68:G:H2'	35:DA:69:C:C6	2.43	0.54
26:B1:29:GLY:C	26:B1:31:GLY:H	2.10	0.54
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.08	0.54
35:DA:1972:A:H2'	35:DA:1973:G:H8	1.72	0.54
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.07	0.54
24:CY:689:LYS:HG3	24:CY:690:GLY:N	2.22	0.54
47:BO:108:GLU:OE2	47:BO:108:GLU:N	2.40	0.54
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.07	0.54
35:DA:2336:A:N3	35:DA:2385:C:H1'	2.23	0.54
48:DP:9:ASN:N	48:DP:10:PRO:HD2	2.23	0.54
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.08	0.54
4:AD:11:LEU:O	4:AD:12:CYS:C	2.45	0.54
40:BF:176:LEU:HG	40:BF:177:ALA:O	2.07	0.54
24:AY:227:ILE:HD11	24:AY:241:GLU:C	2.28	0.54
53:BU:99:ALA:HB2	53:BU:106:PHE:CE1	2.43	0.54
48:BP:64:LYS:C	48:BP:66:GLY:H	2.10	0.54
35:DA:83:G:O2'	35:DA:84:A:C8	2.56	0.54
31:D6:27:LYS:CD	31:D6:27:LYS:O	2.54	0.54
10:CJ:33:GLN:N	10:CJ:75:ILE:HD11	2.22	0.54
37:DC:76:LEU:HD21	37:DC:104:ILE:HD11	1.89	0.54
31:D6:13:CYS:HA	31:D6:50:ARG:O	2.08	0.54
35:DA:1059:G:H4'	44:DK:115:LEU:HD23	1.88	0.54
40:BF:10:PRO:HG2	40:BF:13:SER:OG	2.08	0.54
48:BP:16:ARG:CD	48:BP:18:ARG:H	2.10	0.54
44:DK:109:LYS:HA	44:DK:112:MET:HE3	1.90	0.54
48:DP:102:ARG:HG2	48:DP:102:ARG:O	2.07	0.54
48:DP:99:LEU:HA	48:DP:102:ARG:HH12	1.72	0.54
48:DP:146:VAL:O	48:DP:148:LEU:HD12	2.08	0.54
30:D5:55:ARG:HH12	50:DR:33:ARG:CD	2.20	0.54
19:AS:44:MET:HB3	19:AS:47:HIS:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	1.90	0.54
39:BE:70:ALA:O	39:BE:71:GLY:C	2.45	0.54
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.08	0.54
56:BX:35:THR:HG22	56:BX:37:THR:N	2.14	0.54
58:DZ:13:GLU:O	58:DZ:18:LEU:HD11	2.07	0.54
19:CS:13:ASP:O	19:CS:15:LEU:N	2.40	0.54
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.54
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.28	0.54
39:BE:94:GLU:OE2	39:BE:177:PRO:HB3	2.07	0.54
9:AI:8:GLY:CA	9:AI:79:LEU:HD12	2.36	0.54
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.47	0.54
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.08	0.54
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.27	0.54
39:DE:4:ILE:HG13	39:DE:5:LEU:H	1.73	0.54
37:BC:26:ALA:O	37:BC:30:VAL:HG23	2.07	0.54
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.27	0.54
35:DA:2224:G:H4'	35:DA:2226:C:C2	2.43	0.54
34:B9:29:ASN:HD21	34:B9:32:HIS:CG	2.26	0.54
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.38	0.54
22:AW:52:C:H3'	22:AW:53:G:H5''	1.89	0.54
7:AG:81:GLY:O	7:AG:83:ALA:N	2.40	0.54
35:BA:653:A:H5'	35:BA:654:A:OP2	2.08	0.54
15:AO:9:GLN:HB3	15:AO:13:GLN:NE2	2.21	0.54
22:AW:75:C:O2'	22:AW:76:C:H5'	2.07	0.54
13:CM:56:LEU:C	13:CM:56:LEU:HD13	2.28	0.54
13:AM:11:ARG:HG2	13:AM:12:ASN:H	1.73	0.54
36:DB:49:C:H2'	36:DB:50:G:C8	2.43	0.54
35:DA:483:A:H4'	57:DY:49:VAL:HA	1.90	0.54
35:DA:709:U:H2'	35:DA:710:G:C8	2.42	0.54
41:DG:19:LEU:CD1	41:DG:172:LEU:HD12	2.38	0.54
37:BC:73:VAL:CG1	37:BC:158:LYS:HA	2.38	0.54
35:BA:1943:U:O2'	35:BA:1944:U:H3'	2.08	0.54
38:DD:134:ARG:HG2	38:DD:187:GLY:O	2.07	0.54
24:CY:309:LEU:HD13	24:CY:334:THR:O	2.07	0.54
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.43	0.54
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.72	0.54
7:AG:91:VAL:HG12	7:AG:92:SER:H	1.73	0.54
19:CS:53:ASN:O	19:CS:55:LYS:N	2.37	0.54
25:D0:78:TYR:N	25:D0:78:TYR:CD1	2.75	0.54
17:AQ:45:HIS:CB	17:AQ:65:ILE:HD13	2.37	0.54
11:CK:20:TYR:HB2	11:CK:31:THR:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.07	0.54
7:CG:69:VAL:HG21	7:CG:104:LEU:HD21	1.90	0.54
17:CQ:45:HIS:CB	17:CQ:65:ILE:HD13	2.38	0.54
43:DJ:31:UNK:O	43:DJ:32:UNK:CB	2.56	0.54
35:BA:2422:A:H4'	35:BA:2423:U:OP1	2.08	0.54
35:DA:648:G:H2'	35:DA:649:G:H8	1.71	0.54
35:DA:2861:G:H2'	35:DA:2862:G:H8	1.72	0.54
35:DA:2792:G:N3	35:DA:2792:G:H2'	2.23	0.54
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.28	0.54
35:BA:1972:A:H2'	35:BA:1973:G:H8	1.73	0.54
36:BB:35:U:O2	36:BB:35:U:H2'	2.07	0.54
40:DF:25:PRO:CG	40:DF:119:ARG:HB2	2.37	0.54
41:BG:16:ARG:O	41:BG:20:ILE:HG13	2.08	0.54
35:BA:615:G:OP2	40:BF:40:GLN:NE2	2.40	0.54
40:BF:154:VAL:HG11	40:BF:193:VAL:CG2	2.38	0.54
24:AY:122:TRP:C	24:AY:124:GLN:N	2.61	0.54
1:CA:1130:A:C2	1:CA:1146:A:C4	2.96	0.54
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.07	0.54
53:DU:109:LEU:O	53:DU:112:ARG:HB2	2.07	0.54
56:DX:12:VAL:CG1	56:DX:27:THR:HG23	2.35	0.54
40:DF:181:LEU:HB3	40:DF:205:ARG:HH12	1.71	0.54
31:D6:54:ILE:O	31:D6:54:ILE:CD1	2.53	0.54
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.35	0.54
35:DA:1902:C:H2'	35:DA:1903:G:O4'	2.07	0.54
24:CY:272:LEU:HA	24:CY:275:ALA:HB3	1.90	0.54
37:DC:138:LEU:HD13	37:DC:139:PRO:O	2.08	0.54
31:B6:41:PRO:O	31:B6:42:TRP:C	2.47	0.54
3:CC:94:LEU:O	3:CC:94:LEU:HD12	2.08	0.54
35:DA:2469:A:H2	35:DA:2481:G:N2	2.06	0.54
53:DU:12:ARG:HB3	53:DU:16:LYS:HE3	1.90	0.54
26:B1:86:SER:HA	26:B1:89:GLU:OE2	2.08	0.54
29:D4:2:LYS:CB	36:DB:40:U:O4	2.55	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.55	0.54
35:DA:1142(A):A:O2'	35:DA:1143:A:H5''	2.06	0.54
35:BA:1599:C:H2'	35:BA:1600:C:C6	2.41	0.54
2:AB:19:HIS:HD2	2:AB:189:ASP:OD2	1.90	0.54
2:AB:207:ALA:O	2:AB:211:ILE:HG13	2.08	0.54
19:CS:41:VAL:HG23	19:CS:41:VAL:O	2.08	0.54
29:D4:48:ARG:O	29:D4:49:PHE:CD1	2.61	0.54
35:BA:545:C:H2'	35:BA:547:A:C5'	2.32	0.54
47:BO:19:ILE:HD12	47:BO:41:ALA:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:45:GLN:H	49:DQ:45:GLN:HE21	1.52	0.54
30:D5:35:GLU:O	30:D5:36:CYS:HB3	2.08	0.54
46:DN:94:HIS:N	46:DN:95:PRO:CD	2.71	0.54
26:D1:82:LEU:O	26:D1:83:GLU:HG3	2.07	0.54
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.46	0.54
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.72	0.54
55:DW:20:VAL:HG23	55:DW:21:VAL:N	2.23	0.54
1:CA:1368:G:OP2	9:CI:112:LYS:HD3	2.08	0.54
1:CA:1270:C:H2'	1:CA:1271:G:H8	1.71	0.54
19:CS:6:LYS:HE3	19:CS:6:LYS:H	1.72	0.54
24:CY:505:GLY:HA3	24:CY:576:ASP:CB	2.38	0.54
1:AA:179:A:H2'	1:AA:180:U:H6	1.70	0.54
1:CA:1090:U:C4'	1:CA:1170:A:H2	2.21	0.54
51:BS:20:ARG:HA	51:BS:20:ARG:NE	2.20	0.54
35:DA:2688:U:H1'	35:DA:2721:A:N6	2.23	0.54
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.38	0.54
35:DA:2750:A:H2'	35:DA:2752:C:N4	2.22	0.54
16:AP:43:LYS:HA	16:AP:48:TRP:CB	2.37	0.54
57:DY:67:LEU:HD11	57:DY:71:LYS:HE2	1.89	0.54
41:DG:120:LEU:HD12	41:DG:180:PHE:CE2	2.43	0.54
56:DX:18:TYR:O	56:DX:20:GLY:N	2.41	0.54
1:AA:261:U:O2	1:AA:263:A:C8	2.60	0.54
4:AD:153:ARG:HG2	4:AD:153:ARG:HH11	1.71	0.54
14:CN:47:LEU:O	14:CN:50:LYS:N	2.40	0.54
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.76	0.54
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.45	0.54
35:BA:41:C:H2'	35:BA:42:G:O4'	2.06	0.54
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.24	0.54
1:AA:415:A:H2'	1:AA:416:G:C8	2.42	0.54
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	1.89	0.54
1:AA:174:C:O2'	1:AA:175:C:H5'	2.08	0.54
1:AA:424:G:H2'	1:AA:425:G:H8	1.72	0.54
40:DF:25:PRO:HB2	40:DF:119:ARG:HD3	1.89	0.54
29:B4:10:VAL:N	29:B4:26:SER:O	2.41	0.54
40:BF:18:ARG:C	40:BF:19:GLU:HG2	2.28	0.54
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.08	0.54
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.07	0.54
35:BA:1568:G:OP2	38:BD:63:ARG:NH2	2.37	0.54
48:DP:47:ASP:HB3	48:DP:48:PRO:O	2.08	0.54
35:DA:1840:G:H1	35:DA:1902:C:H42	1.56	0.54
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:124:PRO:HG2	24:CY:574:GLU:N	2.08	0.54
24:AY:546:ILE:CG2	24:AY:590:ILE:HG13	2.27	0.54
4:CD:129:ASN:N	4:CD:129:ASN:HD22	2.06	0.54
1:AA:781:A:H2'	1:AA:782:A:H5'	1.89	0.54
30:D5:55:ARG:NH2	50:DR:113:LEU:HD21	2.23	0.54
41:DG:98:ARG:HH11	41:DG:98:ARG:CG	2.20	0.54
19:AS:43:GLU:O	19:AS:45:VAL:HG13	2.08	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:H	2.12	0.54
30:B5:55:ARG:NH2	50:BR:113:LEU:HD21	2.23	0.54
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.38	0.54
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.31	0.54
2:AB:17:PHE:O	2:AB:204:ASN:HB2	2.08	0.54
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	2.23	0.54
35:BA:2818:G:O2'	35:BA:2837:G:H5'	2.08	0.54
58:DZ:95:PRO:HA	58:DZ:128:VAL:O	2.08	0.54
25:D0:40:GLN:NE2	25:D0:43:THR:CA	2.67	0.54
9:CI:128:ARG:O	13:CM:125:ARG:HD2	2.08	0.54
47:BO:26:LYS:HB3	47:BO:30:ALA:CB	2.37	0.54
1:AA:1060:C:H5'	14:AN:45:ARG:NH2	2.23	0.54
1:CA:896:C:O2'	1:CA:897:C:H5'	2.07	0.54
39:BE:95:ILE:N	39:BE:95:ILE:HD13	2.23	0.54
39:DE:4:ILE:CG1	39:DE:5:LEU:N	2.71	0.54
37:BC:127:LYS:O	37:BC:128:LEU:HG	2.08	0.54
35:BA:883:G:O2'	35:BA:884:C:H5'	2.07	0.54
35:BA:892:G:H2'	35:BA:893:C:H6	1.73	0.54
36:BB:94:C:H2'	36:BB:95:C:H6	1.73	0.54
58:BZ:29:TYR:O	58:BZ:30:ASN:HB3	2.07	0.54
24:CY:322:VAL:HG23	24:CY:323:GLY:N	2.23	0.54
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.89	0.54
37:DC:225:ILE:O	37:DC:225:ILE:HD12	2.08	0.54
46:BN:14:VAL:HG13	46:BN:137:LYS:HG3	1.90	0.54
35:DA:1441:G:H2'	35:DA:1442:G:C8	2.42	0.54
6:CF:42:GLU:C	6:CF:44:GLY:H	2.11	0.54
52:BT:98:LYS:HB3	52:BT:100:TYR:CE1	2.43	0.54
24:CY:211:GLU:HB2	24:CY:215:LYS:NZ	2.23	0.54
1:CA:977:A:C2'	1:CA:978:A:H5'	2.37	0.54
2:CB:9:GLU:OE2	2:CB:9:GLU:N	2.40	0.54
35:BA:67:U:H2'	35:BA:68:G:C8	2.43	0.54
38:BD:79:VAL:O	38:BD:113:VAL:HG13	2.08	0.54
1:AA:1459:C:H2'	1:AA:1460:A:H8	1.73	0.54
1:CA:603:U:H2'	1:CA:604:G:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:25:C:H2'	1:CA:26:A:C8	2.43	0.54
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.40	0.54
35:DA:810:U:OP1	35:DA:1253:A:N7	2.40	0.54
1:CA:945:G:C2	1:CA:946:A:C8	2.96	0.54
26:D1:20:ARG:HH11	26:D1:20:ARG:HG2	1.73	0.54
55:BW:80:PRO:O	55:BW:100:THR:HG21	2.08	0.54
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	2.06	0.54
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.37	0.54
35:DA:1044:G:O2'	35:DA:1045:A:H5''	2.07	0.54
40:BF:124:LEU:HD22	40:BF:191:ARG:HH21	1.73	0.54
24:AY:238:THR:HG23	24:AY:241:GLU:H	1.72	0.54
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.38	0.54
56:DX:55:ASN:HB2	56:DX:80:ILE:HG12	1.90	0.54
31:B6:11:LEU:CG	31:B6:26:ASN:HD21	2.21	0.54
48:BP:47:ASP:HB2	48:BP:51:PHE:HB2	1.90	0.54
1:CA:1221:G:H4'	19:CS:77:THR:CG2	2.35	0.54
35:BA:302:C:P	57:BY:73:ARG:HH12	2.31	0.54
57:BY:95:LYS:CD	57:BY:101:LYS:H	2.21	0.54
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.23	0.54
8:AH:103:VAL:HG23	8:AH:110:ALA:HB2	1.88	0.54
24:CY:152:THR:HG23	24:CY:153:MET:N	2.23	0.54
40:DF:7:TYR:OH	40:DF:10:PRO:HG3	2.06	0.54
46:BN:15:LEU:HD12	46:BN:136:GLU:HG3	1.90	0.54
48:DP:115:LEU:HD23	48:DP:115:LEU:H	1.72	0.54
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.54	0.54
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.23	0.54
35:BA:2469:A:H2	35:BA:2481:G:N2	2.05	0.54
52:DT:55:ASN:H	52:DT:59:THR:HG21	1.72	0.54
46:BN:96:GLU:N	46:BN:96:GLU:CD	2.57	0.54
18:AR:56:THR:O	18:AR:58:LEU:HD12	2.07	0.54
1:AA:624:C:O2'	1:AA:625:G:H5'	2.07	0.54
24:CY:232:LEU:HD22	24:CY:232:LEU:H	1.73	0.54
35:DA:863:A:O2'	36:DB:101:G:H1'	2.08	0.54
24:CY:331:TYR:O	24:CY:371:ALA:CB	2.56	0.54
24:CY:124:GLN:HA	24:CY:127:LYS:HD2	1.89	0.54
1:CA:383:A:C2'	1:CA:384:G:H5'	2.38	0.54
30:B5:27:PRO:HG3	55:BW:23:LEU:CD1	2.35	0.54
56:BX:65:ARG:HH11	56:BX:65:ARG:HG2	1.72	0.54
35:BA:1173:G:H5'	35:BA:1174:A:O5'	2.07	0.54
49:BQ:108:GLY:O	49:BQ:109:VAL:CG2	2.56	0.54
32:B7:24:THR:HG23	32:B7:27:GLY:CA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2521:C:N4	35:BA:2544:G:H1	2.06	0.54
27:B2:15:LYS:O	27:B2:16:LEU:HD23	2.08	0.54
37:BC:138:LEU:HD13	37:BC:139:PRO:O	2.07	0.54
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.08	0.54
35:BA:1036:G:C6	35:BA:1120:G:C6	2.96	0.54
50:DR:7:GLY:HA3	50:DR:8:ARG:NH2	2.23	0.54
50:DR:7:GLY:O	50:DR:8:ARG:CB	2.56	0.54
28:B3:4:LEU:O	28:B3:36:VAL:HA	2.08	0.54
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.08	0.54
35:BA:491:G:H2'	35:BA:492:A:C8	2.42	0.54
35:DA:654(P):C:H2'	35:DA:654(Q):C:H5'	1.90	0.54
7:CG:64:GLN:HG3	7:CG:128:ALA:HB1	1.91	0.54
37:BC:57:GLN:NE2	37:BC:205:ALA:HA	2.22	0.54
6:AF:7:ASN:OD1	6:AF:62:TRP:HD1	1.91	0.54
35:DA:648:G:H2'	35:DA:649:G:C8	2.43	0.54
19:CS:72:GLY:O	19:CS:74:PHE:N	2.41	0.54
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.89	0.54
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.89	0.54
35:DA:1358:G:O2'	35:DA:1359:A:H5''	2.08	0.54
58:BZ:126:VAL:HG23	58:BZ:127:LYS:N	2.23	0.54
35:BA:1287:A:H2'	35:BA:1287:A:N3	2.21	0.54
8:AH:31:PHE:O	8:AH:34:GLU:HB2	2.08	0.54
13:CM:94:ARG:NE	19:CS:82:GLY:N	2.56	0.54
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	1.90	0.54
38:BD:5:LYS:HD2	38:BD:17:THR:HG22	1.89	0.54
24:AY:662:LYS:HZ2	42:BH:175:LYS:CG	2.21	0.53
41:BG:119:GLY:HA3	41:BG:181:ARG:N	2.23	0.53
10:AJ:78:ASN:C	10:AJ:79:ARG:HH11	2.11	0.53
24:CY:679:VAL:O	24:CY:681:LYS:N	2.41	0.53
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.08	0.53
53:BU:113:ALA:C	53:BU:115:ALA:N	2.61	0.53
53:BU:61:TRP:HB3	53:BU:93:LYS:HB3	1.89	0.53
31:B6:9:LEU:O	31:B6:9:LEU:HD22	2.08	0.53
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.43	0.53
31:D6:15:GLU:CD	31:D6:44:ARG:NH2	2.62	0.53
3:CC:59:ARG:HD3	3:CC:64:VAL:HG22	1.90	0.53
50:BR:55:ALA:HB2	50:BR:79:LEU:HD11	1.90	0.53
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.90	0.53
48:BP:16:ARG:O	48:BP:18:ARG:N	2.41	0.53
26:B1:56:GLN:HA	26:B1:56:GLN:NE2	2.18	0.53
35:DA:650:C:C3'	35:DA:651:G:H5''	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.09	0.53
48:BP:101:VAL:HA	48:BP:107:LYS:H	1.73	0.53
1:AA:255:G:O6	1:AA:266:G:O6	2.25	0.53
40:DF:81:PRO:O	40:DF:83:PHE:N	2.41	0.53
41:DG:34:LEU:HD11	41:DG:100:TRP:CH2	2.43	0.53
2:AB:86:GLU:C	2:AB:88:ALA:H	2.10	0.53
34:B9:22:ARG:NH2	35:BA:2741:A:OP1	2.42	0.53
1:CA:737:A:H2'	1:CA:738:C:H6	1.73	0.53
52:BT:11:GLU:O	52:BT:13:ARG:N	2.36	0.53
42:BH:46:GLU:HG3	42:BH:51:ARG:HB2	1.89	0.53
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.08	0.53
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	1.89	0.53
35:DA:1252:G:N3	53:DU:33:ARG:HD2	2.22	0.53
25:B0:40:GLN:NE2	25:B0:43:THR:CA	2.70	0.53
27:B2:48:HIS:ND1	35:BA:95:G:O2'	2.40	0.53
9:CI:84:ALA:C	9:CI:86:VAL:H	2.11	0.53
1:AA:363:A:OP2	12:AL:33:ARG:HD3	2.08	0.53
40:BF:113:ALA:HB1	40:BF:186:ILE:CG2	2.37	0.53
35:DA:2076:U:H5'	35:DA:2238:G:N2	2.21	0.53
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.08	0.53
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.41	0.53
1:AA:1312:G:O2'	1:AA:1313:U:H5'	2.08	0.53
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.43	0.53
35:DA:816:C:O2'	35:DA:817:C:H5'	2.08	0.53
35:DA:284:U:H2'	35:DA:285:C:C6	2.41	0.53
24:CY:600:VAL:O	24:CY:600:VAL:HG13	2.08	0.53
36:BB:61:G:O2'	36:BB:62:C:H5'	2.08	0.53
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.73	0.53
24:AY:498:ILE:HG22	24:AY:507:TYR:CD2	2.43	0.53
11:AK:108:ILE:CD1	11:AK:108:ILE:N	2.68	0.53
48:DP:122:PRO:O	48:DP:123:LEU:HB3	2.08	0.53
43:DJ:20:UNK:CB	43:DJ:88:UNK:O	2.56	0.53
16:CP:43:LYS:HA	16:CP:48:TRP:CB	2.37	0.53
35:BA:710:G:H2'	35:BA:711:G:C8	2.43	0.53
13:AM:80:ARG:O	13:AM:83:ASP:HB3	2.08	0.53
35:DA:1063:G:O2'	44:DK:87:GLY:HA3	2.07	0.53
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.43	0.53
35:BA:1050:A:C5	35:BA:1051:G:H1'	2.44	0.53
56:BX:18:TYR:O	56:BX:20:GLY:N	2.41	0.53
35:DA:1092:C:H2'	35:DA:1093:G:H8	1.72	0.53
19:AS:62:ILE:HG13	19:AS:62:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:209:ALA:C	38:BD:210:GLY:O	2.44	0.53
38:BD:210:GLY:O	38:BD:212:SER:N	2.39	0.53
35:BA:610:G:H22	35:BA:619:G:H1'	1.73	0.53
19:AS:53:ASN:C	19:AS:55:LYS:H	2.11	0.53
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.08	0.53
27:B2:32:LEU:HG	27:B2:53:LEU:HD13	1.90	0.53
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.08	0.53
15:CO:64:ARG:HH11	15:CO:64:ARG:HG3	1.73	0.53
54:BV:66:ARG:CZ	54:BV:88:ARG:HH21	2.21	0.53
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.08	0.53
41:BG:46:ALA:HB2	41:BG:88:ILE:HG12	1.90	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.89	0.53
24:CY:601:ILE:HD12	24:CY:684:GLN:HG3	1.90	0.53
24:CY:142:THR:O	24:CY:144:ALA:N	2.40	0.53
30:B5:19:ARG:HD2	35:BA:1266:G:OP1	2.08	0.53
24:AY:213:HIS:O	24:AY:217:VAL:HG23	2.08	0.53
24:AY:227:ILE:HG12	24:AY:237:PRO:HB3	1.90	0.53
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.91	0.53
22:AW:8:U:H1'	22:AW:49:C:H1'	1.90	0.53
56:DX:27:THR:CB	56:DX:80:ILE:HG22	2.36	0.53
31:B6:7:ILE:O	31:B6:27:LYS:HD3	2.08	0.53
57:DY:73:ARG:O	57:DY:74:PRO:O	2.26	0.53
2:CB:163:PHE:CD2	2:CB:185:ILE:HG13	2.42	0.53
40:DF:176:LEU:HG	40:DF:177:ALA:O	2.08	0.53
51:BS:14:VAL:O	51:BS:15:ARG:C	2.46	0.53
48:DP:64:LYS:C	48:DP:66:GLY:H	2.10	0.53
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ1	1.72	0.53
58:DZ:145:GLU:C	58:DZ:147:GLY:N	2.53	0.53
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.09	0.53
48:BP:85:LEU:CD2	48:BP:85:LEU:H	2.14	0.53
2:CB:17:PHE:O	2:CB:204:ASN:HB2	2.08	0.53
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.38	0.53
54:DV:19:LYS:NZ	54:DV:20:LEU:H	2.05	0.53
13:CM:78:ILE:CA	13:CM:81:LEU:HD23	2.38	0.53
6:AF:33:TYR:HA	6:AF:71:ARG:HH21	1.73	0.53
15:AO:17:ARG:HH11	15:AO:17:ARG:HG3	1.73	0.53
15:AO:76:GLU:C	15:AO:78:TYR:N	2.61	0.53
44:DK:29:GLN:O	44:DK:59:ILE:HD12	2.08	0.53
44:DK:5:VAL:HA	44:DK:59:ILE:CG2	2.37	0.53
52:DT:3:ARG:O	52:DT:4:GLY:C	2.44	0.53
26:D1:86:SER:HB3	26:D1:89:GLU:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:10:VAL:O	52:DT:13:ARG:HG2	2.08	0.53
24:CY:14:ASN:HD22	24:CY:14:ASN:N	2.04	0.53
24:CY:131:PRO:CG	24:CY:281:PRO:HG3	2.34	0.53
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.07	0.53
35:DA:881:G:C2'	35:DA:882:G:H5'	2.39	0.53
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.91	0.53
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.07	0.53
21:CU:3:LYS:HB3	21:CU:14:TRP:CD1	2.44	0.53
47:DO:105:GLU:O	47:DO:109:LYS:CG	2.56	0.53
32:B7:24:THR:C	32:B7:26:GLY:H	2.11	0.53
35:DA:588:U:H2'	35:DA:589:C:H6	1.72	0.53
35:DA:588:U:H2'	35:DA:589:C:C6	2.42	0.53
35:DA:653:A:H5'	35:DA:654:A:OP2	2.08	0.53
35:BA:528:A:C2	35:BA:2043:C:H5'	2.44	0.53
1:CA:628:G:O2'	1:CA:629:G:H5'	2.07	0.53
24:CY:416:LYS:CG	24:CY:417:THR:H	2.19	0.53
35:DA:2688:U:H2'	35:DA:2719:G:N2	2.23	0.53
1:AA:346:G:OP2	52:BT:41:ARG:CZ	2.56	0.53
24:CY:343:ASN:HD22	24:CY:344:THR:N	2.07	0.53
6:CF:80:ARG:NH1	6:CF:88:VAL:HB	2.23	0.53
47:BO:34:THR:O	47:BO:35:VAL:C	2.45	0.53
24:AY:637:ARG:HG3	24:AY:637:ARG:NH1	2.23	0.53
35:DA:710:G:H2'	35:DA:711:G:C8	2.43	0.53
52:DT:35:LYS:HZ3	52:DT:41:ARG:NH1	2.05	0.53
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.43	0.53
35:DA:55:G:H2'	35:DA:56:A:C8	2.43	0.53
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.72	0.53
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.07	0.53
52:DT:98:LYS:HB3	52:DT:100:TYR:CE1	2.43	0.53
1:CA:950:U:H2'	1:CA:951:G:C8	2.43	0.53
7:CG:64:GLN:CG	7:CG:128:ALA:HB1	2.38	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.08	0.53
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.43	0.53
1:AA:893:C:H2'	1:AA:894:G:H8	1.74	0.53
43:BJ:48:UNK:O	43:BJ:49:UNK:O	2.27	0.53
53:BU:104:GLN:HB3	54:BV:44:LYS:NZ	2.23	0.53
24:CY:524:GLU:HG2	24:CY:524:GLU:O	2.08	0.53
7:CG:84:ASN:N	7:CG:84:ASN:HD22	2.06	0.53
29:B4:10:VAL:CG2	29:B4:11:PRO:HD2	2.34	0.53
39:BE:119:ARG:HG2	39:BE:160:TYR:HB2	1.90	0.53
24:CY:453:GLY:HA2	24:CY:458:HIS:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:84:THR:HG23	61:CY:702:FUA:H152	1.89	0.53
48:BP:9:ASN:H	48:BP:10:PRO:CD	2.21	0.53
54:BV:49:THR:O	54:BV:50:PRO:C	2.46	0.53
12:AL:36:VAL:HG11	24:AY:425:SER:HB3	1.90	0.53
35:DA:322:A:H3'	40:DF:169:ASN:ND2	2.23	0.53
35:BA:1505:C:C5	35:BA:1506:C:H1'	2.42	0.53
31:D6:27:LYS:HZ2	31:D6:30:THR:CB	2.21	0.53
48:DP:58:THR:O	48:DP:58:THR:HG22	2.09	0.53
41:DG:41:GLN:O	41:DG:43:LEU:N	2.35	0.53
57:BY:95:LYS:HE2	57:BY:101:LYS:H	1.74	0.53
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.19	0.53
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.28	0.53
24:CY:13:ARG:NH2	24:CY:282:SER:HB2	2.24	0.53
36:BB:49:C:OP1	51:BS:96:GLY:HA3	2.07	0.53
48:DP:16:ARG:O	48:DP:18:ARG:N	2.40	0.53
27:D2:14:ARG:HG3	27:D2:14:ARG:HH11	1.73	0.53
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.12	0.53
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.72	0.53
35:DA:569:U:C4	35:DA:570:G:C6	2.96	0.53
35:BA:1803:A:O3'	38:BD:259:THR:CG2	2.51	0.53
2:AB:126:GLU:HA	2:AB:129:GLU:CD	2.27	0.53
2:AB:151:GLY:O	2:AB:152:PHE:C	2.47	0.53
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.43	0.53
1:CA:973:G:H1'	10:CJ:55:LYS:HZ3	1.73	0.53
30:B5:50:GLY:HA2	30:B5:56:LYS:HB3	1.89	0.53
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.08	0.53
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.51	0.53
2:AB:221:LEU:O	2:AB:221:LEU:HD13	2.09	0.53
57:DY:62:GLU:CG	57:DY:63:LYS:N	2.71	0.53
44:DK:4:VAL:HG12	44:DK:5:VAL:N	2.20	0.53
38:DD:183:ARG:HD2	38:DD:270:ILE:HG23	1.90	0.53
46:BN:87:LEU:O	46:BN:90:MET:N	2.41	0.53
40:BF:62:ARG:NH2	40:BF:64:ILE:HA	2.24	0.53
34:D9:31:LYS:HE2	35:DA:2478:A:H5'	1.90	0.53
42:BH:144:VAL:O	42:BH:148:ILE:HG12	2.08	0.53
35:BA:2118:U:OP1	35:BA:2148:G:H4'	2.08	0.53
3:CC:5:ILE:HD13	3:CC:5:ILE:N	2.23	0.53
35:BA:2873:A:H4'	50:BR:8:ARG:NH2	2.23	0.53
35:DA:799:G:OP2	35:DA:800:A:H3'	2.09	0.53
35:BA:528:A:H2	35:BA:2043:C:H5'	1.72	0.53
37:BC:139:PRO:HA	37:BC:145:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:120:ILE:HG22	7:CG:124:LEU:CD1	2.36	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.28	0.53
1:CA:268:C:O2	1:CA:268:C:H2'	2.08	0.53
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.73	0.53
35:DA:826:U:H5''	35:DA:2428:G:O3'	2.08	0.53
35:DA:2749:A:N1	35:DA:2750:A:N6	2.57	0.53
35:DA:20:C:H2'	35:DA:21:A:H8	1.73	0.53
58:DZ:56:VAL:HG22	58:DZ:91:LEU:CD1	2.38	0.53
13:CM:11:ARG:HG2	13:CM:12:ASN:H	1.73	0.53
4:CD:187:ARG:NH2	4:CD:193:ASP:OD2	2.41	0.53
37:BC:213:VAL:CG1	37:BC:225:ILE:HD11	2.39	0.53
1:CA:1008:C:H2'	1:CA:1009:G:H8	1.72	0.53
35:BA:1151:G:H5''	53:BU:81:HIS:CE1	2.43	0.53
52:DT:60:THR:HG22	52:DT:77:PRO:HA	1.90	0.53
1:CA:423:G:H2'	1:CA:424:G:H5'	1.89	0.53
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.08	0.53
1:CA:1458:G:OP1	20:CT:35:THR:HG21	2.08	0.53
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.43	0.53
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.08	0.53
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.06	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.42	0.53
48:BP:75:ILE:N	48:BP:75:ILE:HD12	2.23	0.53
35:BA:1839:G:N3	35:BA:1839:G:H2'	2.24	0.53
11:AK:105:VAL:HG23	11:AK:105:VAL:O	2.09	0.53
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.24	0.53
56:BX:27:THR:CB	56:BX:80:ILE:HG22	2.36	0.53
35:BA:2012:G:H4'	55:BW:96:ILE:CD1	2.17	0.53
24:AY:238:THR:HG23	24:AY:240:GLU:H	1.73	0.53
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.23	0.53
48:BP:25:SER:O	48:BP:30:THR:HG23	2.09	0.53
35:DA:272(H):C:H6	35:DA:272(H):C:C5'	2.17	0.53
51:DS:15:ARG:CB	51:DS:18:ILE:HD11	2.32	0.53
57:BY:15:VAL:O	57:BY:22:GLY:N	2.41	0.53
33:D8:7:HIS:HB2	33:D8:59:LYS:HB3	1.89	0.53
29:D4:10:VAL:N	29:D4:26:SER:O	2.41	0.53
58:BZ:152:ALA:HB3	58:BZ:154:ASP:OD2	2.09	0.53
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.08	0.53
1:CA:1004:A:H5'	1:CA:1025:U:N3	2.22	0.53
24:CY:135:PHE:CD1	24:CY:272:LEU:HD22	2.42	0.53
31:B6:13:CYS:HB3	31:B6:49:HIS:HB3	1.90	0.53
35:BA:2346:A:H1'	35:BA:2383:G:N9	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:106:ARG:O	51:BS:107:GLU:CB	2.56	0.53
18:AR:37:VAL:C	18:AR:39:VAL:H	2.11	0.53
35:BA:514:A:H2'	35:BA:515:A:H8	1.73	0.53
35:BA:1799:G:H8	38:BD:181:GLU:OE1	1.92	0.53
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.38	0.53
35:BA:650:C:C3'	35:BA:651:G:H5''	2.38	0.53
2:CB:209:ARG:NH1	2:CB:239:VAL:HG11	2.23	0.53
12:CL:70:ILE:CG2	12:CL:100:ILE:HD12	2.38	0.53
35:DA:359:A:H2'	35:DA:360:G:O4'	2.08	0.53
46:DN:23:LEU:CB	46:DN:60:ILE:HG21	2.37	0.53
27:B2:41:ILE:CD1	27:B2:44:LEU:HD12	2.33	0.53
54:BV:61:VAL:HG22	54:BV:63:GLY:H	1.74	0.53
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.89	0.53
58:DZ:163:LEU:HD23	58:DZ:163:LEU:N	2.20	0.53
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.33	0.53
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.90	0.53
42:BH:84:SER:OG	42:BH:85:LYS:N	2.40	0.53
24:AY:486:THR:HG23	24:AY:600:VAL:CG1	2.38	0.53
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.39	0.53
1:AA:624:C:H4'	16:AP:10:GLY:C	2.29	0.53
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	1.90	0.53
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.53
24:CY:103:GLY:O	24:CY:104:ALA:CB	2.55	0.53
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.43	0.53
28:D3:45:GLY:HA3	35:DA:851:U:O2'	2.08	0.53
22:AW:53:G:H2'	22:AW:54:G:H8	1.74	0.53
35:BA:848:G:H5''	35:BA:928:G:H22	1.72	0.53
27:D2:40:SER:C	27:D2:42:GLY:N	2.62	0.53
35:DA:221:A:H4'	35:DA:222:A:O5'	2.07	0.53
35:BA:1791:A:C6	35:BA:1829:A:H5'	2.43	0.53
46:BN:17:ASP:OD1	46:BN:56:ASN:HB3	2.08	0.53
35:DA:492:A:H2'	35:DA:493:G:H5'	1.90	0.53
51:DS:40:ILE:CG2	51:DS:41:ASP:N	2.72	0.53
35:DA:2347:C:H2'	35:DA:2348:U:C5	2.43	0.53
38:BD:39:LYS:HZ2	38:BD:87:ASN:HB3	1.73	0.53
4:AD:122:ARG:NH1	4:AD:134:ASP:HB2	2.23	0.53
12:AL:23:LYS:HE3	12:AL:89:ARG:HE	1.73	0.53
4:CD:192:GLU:O	4:CD:193:ASP:C	2.46	0.53
24:CY:439:ARG:O	24:CY:452:SER:HB3	2.08	0.53
35:DA:467:G:O2'	35:DA:468:G:H5'	2.09	0.53
1:AA:818:G:O2'	1:AA:819:A:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:67:U:H2'	35:DA:68:G:C8	2.43	0.53
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.08	0.53
24:CY:483:TYR:O	24:CY:558:PHE:HB3	2.08	0.53
37:BC:76:LEU:HD21	37:BC:104:ILE:HD11	1.91	0.53
55:BW:12:ILE:HG13	55:BW:42:ARG:NH1	2.23	0.53
6:CF:22:GLU:O	6:CF:26:ILE:HG13	2.07	0.53
35:BA:600:G:H2'	35:BA:601:C:C6	2.44	0.53
35:DA:902:C:H2'	35:DA:903:C:C6	2.44	0.53
40:BF:25:PRO:HB2	40:BF:119:ARG:HD3	1.89	0.53
46:BN:1:MET:HE2	46:BN:2:LYS:N	2.24	0.53
53:BU:49:HIS:C	53:BU:52:ARG:HB2	2.29	0.53
57:DY:38:ILE:HG23	57:DY:39:VAL:N	2.24	0.53
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.09	0.53
58:BZ:89:PHE:HE1	58:BZ:96:VAL:HG21	1.73	0.53
41:DG:63:ILE:HG21	41:DG:141:PHE:CD2	2.44	0.53
47:DO:60:ALA:C	47:DO:87:ILE:HD11	2.29	0.53
51:BS:89:ARG:NH1	51:BS:89:ARG:HG2	2.24	0.53
31:D6:15:GLU:OE1	31:D6:44:ARG:NH2	2.42	0.53
31:D6:45:LYS:HG2	35:DA:2371:G:C5'	2.39	0.53
3:CC:154:SER:OG	3:CC:155:GLY:N	2.41	0.53
35:BA:1596:A:O2'	35:BA:1597:A:H5'	2.08	0.53
35:DA:1803:A:O3'	38:DD:259:THR:CG2	2.48	0.53
3:AC:59:ARG:HD3	3:AC:64:VAL:HG22	1.90	0.53
48:DP:85:LEU:CD2	48:DP:85:LEU:H	2.15	0.53
48:BP:112:LEU:H	48:BP:128:HIS:CD2	2.26	0.53
39:DE:34:VAL:HG11	39:DE:78:LEU:CD2	2.38	0.53
35:DA:1599:C:H2'	35:DA:1600:C:C6	2.41	0.53
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	2.08	0.53
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.39	0.53
27:D2:4:SER:O	27:D2:6:VAL:N	2.42	0.53
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.71	0.53
26:B1:3:LYS:HE3	35:BA:1364:G:C8	2.43	0.53
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.74	0.53
4:CD:196:LEU:C	4:CD:198:VAL:H	2.12	0.53
35:DA:8:A:H2'	35:DA:9:U:C5	2.43	0.53
58:BZ:86:VAL:HG12	58:BZ:87:ASP:N	2.19	0.53
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.08	0.53
35:BA:558:G:H5'	46:BN:112:LEU:HD22	1.90	0.53
35:DA:1052:C:H6	35:DA:1052:C:H3'	1.74	0.53
35:DA:1107:G:OP1	43:DJ:58:UNK:HA	2.08	0.53
1:CA:275:G:H2'	1:CA:276:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:298:VAL:HG22	24:CY:299:VAL:N	2.23	0.53
42:BH:149:ARG:HA	42:BH:162:ILE:HG13	1.91	0.53
24:CY:18:ALA:O	24:CY:19:ALA:HB2	2.09	0.53
24:AY:228:MET:O	24:AY:232:LEU:HD23	2.09	0.53
36:BB:68:C:O2'	36:BB:69:G:H5'	2.09	0.53
35:BA:363(E):U:O2'	35:BA:363(F):A:O4'	2.26	0.53
49:BQ:62:GLY:HA2	58:BZ:116:VAL:CG2	2.38	0.53
10:CJ:20:ALA:C	10:CJ:22:LYS:N	2.61	0.53
35:DA:1173:G:H5'	35:DA:1174:A:O5'	2.08	0.53
56:DX:44:GLU:HB2	56:DX:49:VAL:O	2.08	0.53
1:AA:998:G:H2'	1:AA:999:C:N1	2.24	0.53
48:BP:108:LYS:N	48:BP:108:LYS:HD2	2.23	0.53
26:D1:30:VAL:N	35:DA:2396:G:H4'	2.24	0.53
20:AT:73:HIS:O	20:AT:74:LYS:C	2.47	0.53
1:CA:1329:A:O2'	1:CA:1330:U:H5'	2.09	0.53
1:CA:265:G:H2'	1:CA:267:C:H5	1.73	0.53
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.82	0.53
18:AR:44:LEU:O	18:AR:45:SER:O	2.27	0.53
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.38	0.53
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.44	0.53
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.28	0.53
35:DA:402:A:C2'	35:DA:403:U:H5'	2.39	0.53
22:CV:74:C:H2'	22:CV:75:C:H5'	1.90	0.53
35:DA:503:A:H4'	35:DA:504:U:C5'	2.38	0.53
35:BA:2861:G:H2'	35:BA:2862:G:H8	1.73	0.53
1:AA:306:G:O2'	1:AA:307:C:H5'	2.08	0.53
35:BA:852:G:H2'	35:BA:853:G:H8	1.73	0.53
35:DA:2113:U:H2'	35:DA:2114:A:H8	1.73	0.53
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.89	0.53
22:CV:23:C:H2'	22:CV:24:U:H6	1.74	0.53
45:DM:15:UNK:C	45:DM:17:UNK:N	3.29	0.53
42:DH:77:LYS:HA	42:DH:80:SER:OG	2.09	0.53
16:AP:2:VAL:O	16:AP:2:VAL:HG22	2.09	0.53
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.23	0.53
24:AY:186:TYR:HA	24:AY:198:GLU:HA	1.90	0.53
40:DF:25:PRO:CB	40:DF:119:ARG:HD3	2.38	0.53
10:AJ:3:LYS:HZ3	10:AJ:77:PRO:HD2	1.74	0.53
58:DZ:168:GLU:O	58:DZ:169:GLU:C	2.47	0.53
40:DF:154:VAL:HG11	40:DF:193:VAL:CG2	2.38	0.53
24:CY:35:TYR:CE1	24:CY:269:VAL:HB	2.44	0.53
31:B6:13:CYS:HA	31:B6:50:ARG:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:95:THR:O	3:CC:97:LYS:N	2.41	0.53
2:CB:98:LEU:O	2:CB:101:MET:HB2	2.08	0.53
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HE3	2.44	0.53
35:BA:1141:U:H5''	46:BN:63:THR:CG2	2.39	0.53
26:B1:76:ARG:HH22	26:B1:95:LEU:CG	2.21	0.53
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.74	0.53
35:BA:674:G:H2'	35:BA:804:A:H61	1.74	0.53
19:CS:41:VAL:O	19:CS:43:GLU:N	2.41	0.53
15:CO:76:GLU:C	15:CO:78:TYR:N	2.61	0.53
52:BT:64:ARG:HG2	52:BT:64:ARG:HH11	1.73	0.53
29:B4:22:ILE:N	29:B4:22:ILE:HD12	2.23	0.53
35:BA:797:C:H2'	35:BA:798:G:H8	1.74	0.53
38:BD:26:LYS:CA	38:BD:26:LYS:HE2	2.38	0.53
9:AI:84:ALA:C	9:AI:86:VAL:H	2.12	0.53
1:CA:439:A:H2'	1:CA:441:A:H5'	1.91	0.53
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.90	0.53
35:DA:1050:A:C5	35:DA:1051:G:H1'	2.44	0.53
9:AI:104:ARG:O	9:AI:105:ASP:CB	2.57	0.53
35:BA:284:U:H2'	35:BA:285:C:C6	2.43	0.53
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.37	0.53
32:D7:24:THR:C	32:D7:26:GLY:H	2.11	0.53
28:D3:15:TYR:HD2	28:D3:19:GLN:HE22	1.54	0.53
35:BA:2224:G:H4'	35:BA:2226:C:C2	2.43	0.53
35:DA:482:A:H4'	57:DY:47:LYS:HG2	1.90	0.53
24:AY:609:GLU:HB2	24:AY:670:VAL:HG22	1.91	0.53
3:CC:138:VAL:O	3:CC:139:GLN:C	2.47	0.53
24:CY:296:GLY:O	24:CY:297:GLU:CB	2.56	0.53
38:BD:148:GLU:HB2	38:BD:151:LYS:CD	2.38	0.53
35:DA:1168:G:H2'	35:DA:1169:G:H8	1.74	0.53
35:DA:1197:G:H2'	35:DA:1198:U:H6	1.72	0.53
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.08	0.53
24:AY:411:VAL:HG12	24:AY:412:ALA:N	2.22	0.53
22:AV:49:G:H1	22:AV:65:C:H42	1.55	0.53
1:CA:867:G:O2'	1:CA:868:C:H5'	2.09	0.53
35:BA:402:A:C2'	35:BA:403:U:H5'	2.38	0.53
1:AA:10:A:H2'	1:AA:11:G:H8	1.73	0.53
41:BG:111:LEU:HA	41:BG:114:ILE:HD12	1.89	0.53
4:AD:17:VAL:O	4:AD:18:LYS:O	2.26	0.53
24:CY:85:PRO:C	24:CY:87:HIS:H	2.11	0.53
24:CY:85:PRO:HA	24:CY:94:VAL:HG13	1.91	0.53
24:AY:164:MET:O	24:AY:165:GLN:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:177:ILE:O	24:AY:178:ILE:HD12	2.08	0.53
1:CA:1144:G:N2	1:CA:1146:A:H62	2.07	0.53
54:BV:52:VAL:HG13	54:BV:52:VAL:O	2.08	0.53
35:DA:1568:G:OP2	38:DD:63:ARG:NH2	2.36	0.53
40:DF:124:LEU:HD22	40:DF:191:ARG:HH21	1.72	0.53
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	2.08	0.53
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.09	0.53
40:DF:127:GLU:HB2	40:DF:196:LEU:HD11	1.91	0.53
31:B6:42:TRP:CE3	31:B6:42:TRP:HA	2.44	0.53
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.07	0.53
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	1.91	0.53
35:DA:2470:G:C6	35:DA:2471:C:C5	2.96	0.53
49:DQ:110:THR:HG22	49:DQ:113:GLN:OE1	2.09	0.53
27:B2:3:LEU:HD12	35:BA:98:G:H5'	1.90	0.53
35:DA:948:G:H1	35:DA:969:U:H3	1.57	0.53
51:DS:36:TYR:O	51:DS:37:ALA:HB2	2.07	0.53
6:AF:37:VAL:O	6:AF:38:GLU:HG3	2.08	0.53
35:DA:281:G:N2	35:DA:358:U:C5	2.77	0.53
51:DS:25:ARG:HG3	51:DS:26:LEU:H	1.74	0.53
51:DS:70:GLY:C	51:DS:72:ALA:H	2.10	0.53
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HE3	2.44	0.53
29:D4:19:GLY:O	29:D4:21:VAL:HG23	2.08	0.53
58:DZ:20:ARG:HH11	58:DZ:20:ARG:CB	2.15	0.53
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.90	0.53
35:DA:2820:A:O2'	35:DA:2821:A:OP1	2.25	0.53
35:BA:2067:G:H1	35:BA:2443:C:H42	1.57	0.53
24:AY:331:TYR:O	24:AY:371:ALA:HB1	2.08	0.53
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.90	0.53
38:BD:161:THR:O	38:BD:196:VAL:HG23	2.07	0.53
24:CY:512:ILE:N	24:CY:512:ILE:HD13	2.23	0.53
4:AD:187:ARG:NH2	4:AD:193:ASP:OD2	2.41	0.53
29:B4:16:CYS:SG	29:B4:17:GLY:N	2.81	0.53
24:CY:31:ARG:HD2	24:CY:266:ASN:OD1	2.08	0.53
35:BA:1517:G:H5'	35:BA:1517:G:C8	2.37	0.53
1:AA:631:G:C2'	1:AA:632:A:C8	2.92	0.53
16:AP:25:ARG:NH1	16:AP:25:ARG:HG3	2.20	0.53
1:AA:275:G:H2'	1:AA:276:G:H8	1.74	0.53
36:BB:68:C:H2'	36:BB:69:G:O4'	2.08	0.53
24:AY:684:GLN:O	24:AY:688:ILE:HD13	2.09	0.53
35:BA:687:C:H2'	35:BA:688:U:O4'	2.09	0.53
35:BA:2688:U:H2'	35:BA:2719:G:N2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:261:U:O2	1:CA:263:A:C8	2.62	0.53
1:CA:936:C:O2'	1:CA:937:A:H5'	2.07	0.53
35:BA:2750:A:H2'	35:BA:2752:C:N4	2.24	0.53
35:DA:2026:C:N3	35:DA:2027:G:C8	2.77	0.53
35:BA:1225:G:H2'	35:BA:1226:A:C8	2.43	0.53
1:AA:977:A:C2'	1:AA:978:A:H5'	2.39	0.53
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.44	0.53
38:DD:112:GLN:H	38:DD:115:GLN:NE2	2.06	0.53
1:AA:865:A:H5'	1:AA:1078:U:O4	2.09	0.53
35:DA:1635:G:H2'	35:DA:1636:C:C6	2.43	0.53
19:AS:16:LEU:N	19:AS:16:LEU:HD12	2.24	0.53
44:DK:132:ARG:HH11	44:DK:132:ARG:HG3	1.72	0.53
1:AA:407:G:H2'	1:AA:408:A:H8	1.73	0.53
35:BA:902:C:H2'	35:BA:903:C:C6	2.43	0.53
40:BF:28:ILE:HG21	40:BF:116:ASP:HB2	1.90	0.53
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.08	0.53
35:DA:2539:C:H2'	35:DA:2539:C:O2	2.09	0.53
54:BV:47:VAL:O	54:BV:49:THR:O	2.27	0.53
31:B6:5:VAL:CG1	31:B6:6:ARG:N	2.71	0.53
31:B6:9:LEU:CD2	31:B6:26:ASN:HD22	2.21	0.53
35:BA:2394:C:P	48:BP:63:PRO:HD2	2.49	0.53
48:DP:48:PRO:O	48:DP:50:ARG:N	2.42	0.53
47:BO:64:ARG:NE	52:BT:70:VAL:HG21	2.23	0.53
30:D5:3:LYS:HD2	30:D5:5:PRO:CD	2.37	0.53
1:CA:1239:A:C2'	1:CA:1298:C:N4	2.72	0.53
58:BZ:4:ARG:O	58:BZ:5:LEU:HB2	2.07	0.53
31:B6:37:ARG:O	31:B6:48:VAL:O	2.26	0.53
31:D6:15:GLU:HB2	31:D6:49:HIS:CE1	2.44	0.53
58:DZ:109:ALA:HB3	58:DZ:145:GLU:HA	1.90	0.53
35:BA:271(H):G:H1	35:BA:271(P):C:H42	1.57	0.53
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	1.90	0.53
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.74	0.53
39:BE:55:ASN:O	39:BE:57:LYS:N	2.36	0.53
35:DA:2811:G:O2'	35:DA:2812:G:H5'	2.09	0.53
1:CA:1442:G:C6	1:CA:1442(B):A:C2	2.90	0.53
37:DC:88:GLU:HA	37:DC:95:VAL:HG21	1.91	0.53
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.15	0.53
50:DR:9:LYS:O	50:DR:10:LEU:CD2	2.57	0.53
46:BN:94:HIS:N	46:BN:95:PRO:CD	2.72	0.53
24:CY:14:ASN:ND2	24:CY:14:ASN:N	2.55	0.53
12:AL:46:LYS:HB2	12:AL:92:ASP:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:27:THR:O	38:BD:27:THR:HG23	2.07	0.53
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.29	0.53
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.44	0.53
35:DA:363(E):U:O2'	35:DA:363(F):A:O4'	2.27	0.53
35:BA:1052:C:H3'	35:BA:1052:C:H6	1.73	0.53
24:CY:15:ILE:O	24:CY:15:ILE:HD12	2.08	0.53
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.90	0.53
36:DB:16:G:N2	36:DB:69:G:H1'	2.24	0.53
1:AA:353:A:H5'	1:AA:353:A:C8	2.41	0.53
24:AY:606:MET:HE3	24:AY:671:MET:HG2	1.91	0.53
35:DA:1791:A:C6	35:DA:1829:A:H5'	2.44	0.53
1:AA:1378:C:O2	7:AG:76:ARG:NH2	2.42	0.53
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.24	0.53
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.44	0.53
1:AA:538:G:O2'	1:AA:539:A:H5'	2.08	0.53
4:CD:122:ARG:NH1	4:CD:134:ASP:HB2	2.24	0.53
1:AA:164:U:H2'	1:AA:165:C:H6	1.73	0.53
35:BA:267:C:H2'	35:BA:268:C:C6	2.44	0.53
18:AR:44:LEU:HD22	18:AR:79:LEU:HD22	1.91	0.53
33:B8:29:LYS:HD2	33:B8:44:LYS:HG2	1.91	0.53
42:BH:68:THR:O	42:BH:70:THR:N	2.42	0.53
34:D9:22:ARG:NH2	35:DA:2741:A:OP1	2.42	0.53
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.91	0.53
35:BA:2647:U:H2'	35:BA:2648:C:H6	1.74	0.53
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.08	0.53
55:BW:40:ASN:O	55:BW:41:LYS:HG2	2.09	0.53
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.09	0.53
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.08	0.53
26:D1:18:ILE:HG21	26:D1:20:ARG:NE	2.23	0.53
45:DL:65:UNK:O	45:DL:66:UNK:C	2.56	0.53
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.09	0.53
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.09	0.53
35:BA:2681:C:H5	35:BA:2725:A:H62	1.57	0.53
25:B0:46:LYS:O	25:B0:78:TYR:HA	2.08	0.53
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	1.91	0.53
44:BK:74:ALA:HB2	44:BK:111:LYS:HE2	1.91	0.53
7:AG:84:ASN:HD22	7:AG:84:ASN:N	2.07	0.53
11:AK:20:TYR:HB2	11:AK:31:THR:HG22	1.91	0.53
42:BH:97:ARG:O	42:BH:98:LEU:C	2.48	0.53
35:DA:1047:G:HO2'	35:DA:1110:G:N2	2.07	0.53
35:DA:2051:A:H4'	39:DE:141:ILE:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:3:GLN:NE2	9:CI:20:ARG:NH2	2.56	0.53
54:DV:47:VAL:O	54:DV:49:THR:O	2.26	0.53
22:AW:69:C:O2'	22:AW:70:C:O4'	2.22	0.53
33:B8:7:HIS:HB2	33:B8:59:LYS:HB3	1.89	0.53
35:BA:665:C:H2'	35:BA:666:G:H8	1.74	0.53
57:DY:86:ARG:H	57:DY:88:LYS:NZ	2.07	0.53
35:DA:272(I):U:C4	35:DA:363(A):A:N1	2.75	0.53
35:BA:84:A:C5'	57:BY:9:LYS:HZ2	2.19	0.53
31:D6:10:LEU:HD12	33:D8:34:TRP:HB2	1.89	0.53
31:D6:31:PRO:O	31:D6:32:ASN:OD1	2.27	0.53
33:D8:13:ARG:HB3	48:DP:63:PRO:HB3	1.90	0.53
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.38	0.53
41:DG:41:GLN:C	41:DG:43:LEU:H	2.10	0.53
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.53
40:BF:7:TYR:OH	40:BF:10:PRO:HG3	2.09	0.53
53:BU:12:ARG:HB3	53:BU:16:LYS:HE3	1.91	0.53
28:D3:31:LEU:O	28:D3:32:GLN:HB2	2.09	0.53
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.55	0.53
2:CB:207:ALA:O	2:CB:211:ILE:HG13	2.09	0.53
35:DA:1819:A:H1'	35:DA:1821:A:C6	2.44	0.53
35:DA:1821:A:H2'	35:DA:1822:G:H8	1.74	0.53
41:DG:133:LEU:O	41:DG:157:ILE:HB	2.09	0.53
58:DZ:17:ALA:HA	58:DZ:20:ARG:CG	2.38	0.53
2:AB:51:LEU:HD21	2:AB:201:ILE:HG23	1.91	0.53
2:AB:55:PHE:HA	2:AB:58:ILE:HD12	1.89	0.53
5:AE:11:ILE:HG13	5:AE:33:VAL:HG23	1.91	0.53
5:CE:64:ARG:NH1	5:CE:64:ARG:CG	2.71	0.53
35:DA:271(H):G:H1	35:DA:271(P):C:H42	1.56	0.53
42:DH:144:VAL:O	42:DH:148:ILE:HG12	2.08	0.53
4:CD:107:ARG:HH21	4:CD:194:LEU:HD12	1.74	0.53
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.43	0.53
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.74	0.53
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.09	0.53
39:BE:2:LYS:HD3	39:BE:95:ILE:HG22	1.91	0.53
42:DH:159:GLU:O	42:DH:160:LYS:O	2.26	0.53
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.74	0.53
1:CA:624:C:O2'	1:CA:625:G:H5'	2.09	0.53
16:AP:75:ARG:O	16:AP:78:GLY:N	2.41	0.53
35:BA:1276:A:H1'	50:BR:16:HIS:HE1	1.74	0.53
15:CO:11:VAL:O	15:CO:12:ILE:C	2.48	0.53
35:BA:569:U:C4	35:BA:570:G:C6	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:607:ARG:O	24:AY:671:MET:HA	2.09	0.53
36:BB:94:C:H2'	36:BB:95:C:C6	2.44	0.53
42:BH:127:GLU:HB3	42:BH:128:PRO:HD2	1.91	0.53
46:DN:17:ASP:OD1	46:DN:56:ASN:HB3	2.08	0.53
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.71	0.53
38:DD:148:GLU:HB2	38:DD:151:LYS:CD	2.38	0.53
20:CT:42:GLN:HA	20:CT:42:GLN:NE2	2.24	0.53
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.24	0.53
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.43	0.53
35:DA:1102:C:H2'	35:DA:1103:A:H8	1.73	0.53
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.44	0.53
41:DG:181:ARG:HG3	41:DG:181:ARG:HH11	1.74	0.53
45:DL:80:UNK:O	45:DL:82:UNK:N	2.42	0.53
25:D0:46:LYS:O	25:D0:78:TYR:HA	2.08	0.53
53:DU:104:GLN:HB3	54:DV:44:LYS:NZ	2.24	0.53
35:DA:705:A:N1	35:DA:727:A:H1'	2.23	0.53
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.73	0.53
49:DQ:135:ASP:O	49:DQ:138:ASP:OD2	2.27	0.53
5:AE:10:MET:HG3	5:AE:32:VAL:HG22	1.91	0.53
13:AM:94:ARG:NE	19:AS:82:GLY:N	2.57	0.53
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.90	0.53
4:AD:132:ARG:HD2	4:AD:132:ARG:O	2.08	0.53
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.09	0.53
1:AA:796:C:O2	1:AA:796:C:H2'	2.08	0.53
26:D1:52:ARG:NH1	35:DA:2218:U:O2'	2.42	0.53
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.90	0.53
4:CD:33:MET:HG3	4:CD:37:PRO:HA	1.90	0.53
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.37	0.53
24:AY:113:GLY:O	24:AY:115:GLU:N	2.42	0.53
24:AY:90:PHE:O	24:AY:90:PHE:CG	2.62	0.53
1:CA:793:U:O2	1:CA:1516:G:H4'	2.09	0.53
38:DD:35:LYS:HZ2	38:DD:35:LYS:HB3	1.74	0.53
35:DA:2156:G:H2'	35:DA:2157:G:O4'	2.09	0.53
48:BP:47:ASP:OD1	48:BP:49:ARG:HB2	2.09	0.53
57:DY:99:CYS:O	57:DY:100:ALA:O	2.27	0.53
35:BA:272(I):U:H5	35:BA:363(A):A:H2	1.57	0.53
42:DH:13:LYS:O	42:DH:15:VAL:N	2.37	0.53
47:DO:111:PHE:O	47:DO:115:VAL:HG23	2.09	0.53
31:B6:15:GLU:C	31:B6:16:CYS:O	2.45	0.53
31:B6:15:GLU:CD	31:B6:44:ARG:CZ	2.77	0.53
31:B6:45:LYS:HG2	35:BA:2371:G:C5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:16:CYS:O	31:D6:17:LYS:HB2	2.08	0.53
24:CY:590:ILE:HD13	24:CY:593:ALA:CB	2.39	0.53
35:DA:1156:A:C2'	35:DA:1157:G:OP1	2.57	0.53
18:CR:37:VAL:HG23	18:CR:38:GLU:HG2	1.90	0.53
1:AA:268:C:O2	1:AA:268:C:H2'	2.08	0.53
13:CM:52:GLU:HA	13:CM:55:ARG:HD3	1.91	0.53
1:CA:972:C:H4'	10:CJ:57:LYS:HB2	1.91	0.53
46:BN:23:LEU:CB	46:BN:60:ILE:HG21	2.39	0.53
50:BR:113:LEU:HD12	50:BR:114:VAL:H	1.73	0.53
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.69	0.53
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.37	0.53
37:DC:92:ALA:HB3	37:DC:95:VAL:HG22	1.90	0.53
24:CY:440:VAL:HG12	24:CY:449:THR:HG21	1.91	0.53
58:BZ:111:VAL:O	58:BZ:112:ARG:HB2	2.07	0.53
35:BA:860:U:H5	35:BA:917:A:N7	2.07	0.53
22:AV:35:A:O2'	22:AV:36:U:H5'	2.09	0.53
30:D5:27:PRO:CD	55:DW:23:LEU:HD11	2.39	0.53
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.39	0.53
1:CA:1271:G:H2'	1:CA:1272:G:C8	2.44	0.53
1:CA:192:U:H2'	1:CA:193:C:H6	1.74	0.53
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.91	0.53
37:BC:28:ARG:HH12	37:BC:183:PRO:HB2	1.74	0.53
24:AY:446:THR:O	24:AY:448:GLN:N	2.41	0.53
20:CT:88:VAL:O	20:CT:92:LEU:HG	2.09	0.53
39:DE:3:GLY:HA3	39:DE:81:ILE:HD12	1.91	0.53
35:DA:572:A:C2	35:DA:2033:A:C2	2.97	0.53
1:CA:1202:G:C2	14:CN:42:ILE:HG21	2.44	0.53
12:AL:110:VAL:HG21	12:AL:120:TYR:HD2	1.74	0.53
1:CA:39:G:O2'	1:CA:40:C:H5'	2.08	0.53
35:DA:267:C:H2'	35:DA:268:C:C6	2.44	0.53
35:BA:493:G:H2'	35:BA:494:G:O4'	2.09	0.53
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.44	0.53
35:DA:536:A:H2'	35:DA:537:C:C6	2.43	0.53
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.44	0.53
1:AA:812:C:O2'	1:AA:813:U:P	2.67	0.53
35:BA:503:A:H4'	35:BA:504:U:H5'	1.91	0.53
16:AP:9:PHE:CE2	16:AP:18:ARG:CZ	2.92	0.53
1:CA:707:C:O2'	1:CA:708:C:H5'	2.08	0.53
17:CQ:12:SER:HB3	17:CQ:20:THR:OG1	2.09	0.53
3:AC:164:ARG:NH2	3:AC:166:GLU:OE1	2.42	0.53
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:584:ILE:O	24:AY:588:MET:HG3	2.09	0.53
1:AA:554:C:H2'	1:AA:555:C:C6	2.44	0.53
44:DK:84:LEU:HD21	44:DK:96:VAL:HB	1.91	0.53
35:DA:1759:A:H5'	35:DA:2715:C:H1'	1.90	0.53
1:CA:284:G:H2'	1:CA:285:G:H8	1.74	0.53
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.77	0.53
35:BA:1233:C:H2'	35:BA:1234:U:H6	1.74	0.53
6:CF:21:LEU:O	6:CF:25:ILE:HG12	2.09	0.53
7:CG:18:TYR:CD2	7:CG:59:LEU:HD13	2.44	0.53
35:DA:852:G:H2'	35:DA:853:G:H8	1.74	0.53
35:BA:495:G:H1'	55:BW:57:ASN:OD1	2.08	0.53
24:AY:28:THR:O	24:AY:32:ILE:HG13	2.09	0.53
35:BA:1432:C:H2'	35:BA:1433:U:O4'	2.09	0.53
37:BC:88:GLU:HA	37:BC:95:VAL:HG21	1.91	0.52
24:CY:609:GLU:HB2	24:CY:670:VAL:HG22	1.91	0.52
4:AD:33:MET:HG3	4:AD:37:PRO:HA	1.90	0.52
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	2.09	0.52
40:BF:25:PRO:CB	40:BF:119:ARG:HD3	2.39	0.52
53:DU:62:ILE:HG23	53:DU:76:TYR:CE1	2.44	0.52
46:BN:3:THR:C	46:BN:4:TYR:CG	2.81	0.52
31:D6:5:VAL:CG1	31:D6:6:ARG:N	2.72	0.52
31:D6:8:LYS:HE3	31:D6:25:LYS:CD	2.31	0.52
35:BA:212:G:H5'	35:BA:212:G:C8	2.34	0.52
3:AC:72:LYS:HA	3:AC:72:LYS:HE3	1.90	0.52
30:D5:40:LYS:HZ1	30:D5:46:CYS:H	1.56	0.52
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.28	0.52
51:BS:103:GLU:O	51:BS:104:GLY:C	2.47	0.52
49:DQ:55:VAL:HG23	58:DZ:178:GLU:CG	2.39	0.52
35:BA:813:U:H2'	35:BA:814:C:C5	2.44	0.52
1:AA:1490:C:C6	1:AA:1490:C:C5'	2.88	0.52
48:DP:102:ARG:CB	48:DP:102:ARG:NH2	2.70	0.52
2:CB:86:GLU:C	2:CB:88:ALA:H	2.11	0.52
44:BK:112:MET:N	44:BK:113:PRO:CD	2.72	0.52
19:AS:41:VAL:O	19:AS:43:GLU:N	2.42	0.52
35:DA:2205:C:O2	35:DA:2205:C:H2'	2.08	0.52
41:DG:123:ASN:O	41:DG:125:PHE:N	2.41	0.52
51:DS:103:GLU:O	51:DS:104:GLY:C	2.47	0.52
35:BA:358:U:H2'	35:BA:359:A:C8	2.28	0.52
13:AM:91:ARG:HH21	19:AS:81:ARG:HH21	1.57	0.52
19:CS:43:GLU:O	19:CS:45:VAL:HG13	2.09	0.52
1:CA:1226:C:H5'	13:CM:96:LEU:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:88:LEU:HD23	42:DH:164:TYR:O	2.09	0.52
12:CL:46:LYS:HZ2	12:CL:94:PRO:HG3	1.74	0.52
24:CY:247:ARG:O	24:CY:251:ILE:HG13	2.09	0.52
1:CA:1342:C:H1'	9:CI:124:GLN:HG3	1.90	0.52
50:DR:4:LEU:C	50:DR:6:SER:H	2.12	0.52
3:AC:131:ARG:NH2	3:AC:168:ALA:HB2	2.24	0.52
39:DE:105:THR:OG1	39:DE:199:ARG:NH2	2.41	0.52
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.38	0.52
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.24	0.52
15:CO:43:LEU:HD12	15:CO:56:LEU:HD22	1.92	0.52
55:BW:20:VAL:HG23	55:BW:21:VAL:N	2.24	0.52
36:DB:13:A:O2'	36:DB:15:A:H5''	2.09	0.52
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.72	0.52
18:CR:44:LEU:HD22	18:CR:79:LEU:HD22	1.90	0.52
1:CA:1131:G:C6	1:CA:1132:C:N4	2.78	0.52
24:AY:312:LEU:HD11	24:AY:401:SER:OG	2.09	0.52
22:AW:2:G:H2'	22:AW:3:C:C6	2.45	0.52
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.09	0.52
2:CB:194:PRO:O	2:CB:196:LEU:N	2.42	0.52
1:CA:937:A:C2	1:CA:1379:G:O6	2.62	0.52
6:AF:80:ARG:NH1	6:AF:88:VAL:HB	2.23	0.52
24:CY:496:LYS:HE2	24:CY:498:ILE:CD1	2.39	0.52
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.72	0.52
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.24	0.52
35:DA:1035:U:H2'	35:DA:1036:G:H8	1.72	0.52
35:BA:784:A:HO2'	35:BA:785:G:H8	1.55	0.52
42:BH:72:ILE:O	42:BH:75:ALA:N	2.41	0.52
35:BA:134:C:H2'	35:BA:135:G:C8	2.43	0.52
35:BA:654(P):C:H2'	35:BA:654(Q):C:H5'	1.91	0.52
7:CG:91:VAL:HG12	7:CG:92:SER:H	1.74	0.52
1:CA:708:C:H2'	1:CA:709:G:H8	1.75	0.52
22:CW:2:G:H2'	22:CW:3:C:H6	1.73	0.52
35:BA:2113:U:H2'	35:BA:2114:A:H8	1.74	0.52
35:DA:2373:G:H2'	35:DA:2374:C:C6	2.44	0.52
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.91	0.52
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.39	0.52
22:AW:20:G:C5	35:BA:2169:A:C2	2.97	0.52
8:CH:114:THR:HG21	8:CH:129:VAL:HG23	1.91	0.52
6:AF:22:GLU:O	6:AF:26:ILE:HG13	2.09	0.52
6:AF:24:GLU:OE2	6:AF:28:ARG:NH1	2.42	0.52
24:CY:625:ASN:C	24:CY:627:ARG:H	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	2.09	0.52
24:CY:409:ILE:CD1	24:CY:654:GLY:HA2	2.39	0.52
24:CY:138:LYS:HG2	62:CY:703:GDP:C5	2.44	0.52
24:AY:165:GLN:NE2	24:AY:177:ILE:HG21	2.25	0.52
24:AY:181:LEU:CD1	24:AY:242:LEU:HD13	2.40	0.52
24:AY:89:ASP:OD2	24:AY:89:ASP:N	2.43	0.52
54:BV:39:LEU:HD22	54:BV:39:LEU:N	2.24	0.52
24:AY:423:LYS:CB	24:AY:472:VAL:HG22	2.28	0.52
33:B8:7:HIS:HB3	33:B8:10:ALA:HB3	1.91	0.52
57:DY:84:ARG:NH1	57:DY:84:ARG:HG2	2.22	0.52
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.09	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:HB3	1.90	0.52
30:D5:44:THR:HG23	50:DR:101:ALA:N	2.25	0.52
50:DR:55:ALA:HB2	50:DR:79:LEU:HD11	1.92	0.52
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.50	0.52
51:BS:26:LEU:O	51:BS:88:ASP:HB3	2.09	0.52
50:BR:72:ASP:CG	50:BR:75:LEU:H	2.12	0.52
12:AL:84:LEU:HD23	12:AL:101:VAL:HG21	1.91	0.52
28:B3:31:LEU:HD22	28:B3:32:GLN:N	2.24	0.52
3:AC:59:ARG:CG	3:AC:64:VAL:HA	2.39	0.52
48:DP:107:LYS:C	48:DP:109:GLY:H	2.12	0.52
35:DA:637:A:OP2	48:DP:115:LEU:HB2	2.09	0.52
48:DP:83:VAL:HG11	48:DP:112:LEU:HD21	1.90	0.52
1:CA:129(A):G:C8	1:CA:129(A):G:H5''	2.45	0.52
48:BP:127:ALA:HB3	48:BP:130:PHE:CE1	2.44	0.52
44:BK:112:MET:HE1	44:BK:120:LEU:HD21	1.92	0.52
41:DG:159:VAL:O	41:DG:159:VAL:HG22	2.10	0.52
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.44	0.52
38:DD:238:GLY:O	38:DD:239:ARG:O	2.27	0.52
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.90	0.52
52:DT:120:ARG:HA	52:DT:123:GLN:HG2	1.91	0.52
29:D4:31:ILE:CG2	29:D4:33:VAL:HG23	2.39	0.52
1:CA:328:C:C2'	1:CA:328:C:O2	2.56	0.52
37:DC:88:GLU:CA	37:DC:95:VAL:HG21	2.40	0.52
58:DZ:94:GLU:O	58:DZ:130:PRO:HD3	2.09	0.52
24:CY:510:VAL:HG22	24:CY:534:ILE:HD11	1.91	0.52
35:BA:234:C:H2'	35:BA:235:U:C6	2.44	0.52
47:BO:104:ARG:NH2	52:BT:33:LYS:HE3	2.24	0.52
35:BA:675:A:H4'	40:BF:67:GLN:OE1	2.10	0.52
35:BA:2389:G:H5''	35:BA:2390:U:C5'	2.36	0.52
24:AY:196:ILE:O	24:AY:197:ARG:CB	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1271:G:H2'	1:CA:1272:G:H8	1.74	0.52
35:BA:816:C:O2'	35:BA:817:C:H5'	2.08	0.52
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.08	0.52
46:BN:18:ALA:HB3	46:BN:21:LYS:HB2	1.92	0.52
36:DB:60:C:H2'	36:DB:61:G:C8	2.41	0.52
1:AA:1073:U:O2'	1:AA:1074:G:H5'	2.09	0.52
52:DT:62:THR:HG22	52:DT:75:ILE:HG13	1.90	0.52
35:BA:2105:C:C2'	35:BA:2106:G:H5'	2.39	0.52
1:AA:444:C:H42	1:AA:490:G:H1	1.57	0.52
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.39	0.52
2:AB:62:ALA:O	2:AB:64:ARG:N	2.34	0.52
46:DN:14:VAL:HG13	46:DN:137:LYS:HG3	1.90	0.52
6:AF:42:GLU:C	6:AF:44:GLY:H	2.12	0.52
1:CA:424:G:H2'	1:CA:425:G:H8	1.75	0.52
33:D8:15:LYS:HB2	48:DP:65:ARG:HH12	1.73	0.52
45:BM:26:UNK:HA	45:BM:30:UNK:O	2.10	0.52
35:DA:1398:C:H2'	35:DA:1399:C:H6	1.72	0.52
49:BQ:58:PHE:O	49:BQ:58:PHE:HD1	1.92	0.52
58:DZ:72:ARG:HG3	58:DZ:72:ARG:HH11	1.74	0.52
41:BG:34:LEU:HD13	41:BG:99:MET:CE	2.39	0.52
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CD	2.39	0.52
10:AJ:79:ARG:HH11	10:AJ:79:ARG:N	2.07	0.52
37:BC:88:GLU:CA	37:BC:95:VAL:HG21	2.40	0.52
1:CA:407:G:H2'	1:CA:408:A:H8	1.74	0.52
35:BA:769:G:H2'	35:BA:770:G:H8	1.75	0.52
24:CY:87:HIS:O	24:CY:89:ASP:N	2.42	0.52
24:AY:177:ILE:HG22	24:AY:178:ILE:N	2.24	0.52
48:BP:9:ASN:N	48:BP:10:PRO:HD2	2.24	0.52
53:DU:61:TRP:CB	53:DU:93:LYS:HB3	2.39	0.52
35:DA:302:C:P	57:DY:73:ARG:HH12	2.32	0.52
57:DY:86:ARG:HB3	57:DY:88:LYS:HZ1	1.73	0.52
57:DY:94:LYS:HG3	57:DY:102:CYS:SG	2.49	0.52
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.44	0.52
40:DF:18:ARG:C	40:DF:19:GLU:HG2	2.29	0.52
33:D8:47:LYS:HZ3	33:D8:49:VAL:HG13	1.74	0.52
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.18	0.52
47:DO:107:ARG:HA	47:DO:112:MET:CE	2.40	0.52
27:B2:3:LEU:HD22	27:B2:7:ARG:NH2	2.24	0.52
48:DP:85:LEU:HD23	48:DP:85:LEU:N	2.19	0.52
2:AB:98:LEU:O	2:AB:101:MET:HB2	2.09	0.52
35:BA:2886:G:H2'	35:BA:2887:U:H6	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D4:16:CYS:SG	29:D4:17:GLY:N	2.83	0.52
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.89	0.52
41:BG:76:SER:HA	41:BG:83:ARG:HB3	1.91	0.52
24:AY:517:LEU:HB3	24:AY:521:SER:HB2	1.91	0.52
42:BH:118:PRO:CG	42:BH:121:ILE:HD12	2.37	0.52
46:BN:87:LEU:O	46:BN:88:GLU:C	2.47	0.52
35:DA:234:C:H2'	35:DA:235:U:C6	2.44	0.52
5:AE:91:LEU:HD13	5:AE:120:THR:HG22	1.90	0.52
35:BA:2461:C:O2	35:BA:2461:C:C2'	2.57	0.52
58:BZ:24:LEU:HD23	58:BZ:25:PRO:O	2.09	0.52
36:BB:114:C:O2'	51:BS:46:VAL:HG13	2.09	0.52
35:DA:2478:A:H2'	35:DA:2479:G:O4'	2.09	0.52
39:BE:105:THR:OG1	39:BE:199:ARG:NH2	2.43	0.52
1:CA:1369:C:H2'	1:CA:1370:G:H8	1.67	0.52
46:BN:35:ARG:O	46:BN:37:LYS:HB2	2.09	0.52
29:B4:48:ARG:O	29:B4:48:ARG:HG2	2.09	0.52
1:AA:192:U:H2'	1:AA:193:C:H6	1.71	0.52
35:DA:285:C:O2'	35:DA:286:C:H5''	2.09	0.52
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.24	0.52
12:AL:78:GLN:O	12:AL:79:GLU:C	2.47	0.52
24:AY:689:LYS:HG3	24:AY:690:GLY:N	2.23	0.52
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.44	0.52
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.92	0.52
35:BA:2105:C:H2'	35:BA:2106:G:H5'	1.91	0.52
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.74	0.52
24:CY:292:THR:HA	24:CY:297:GLU:O	2.10	0.52
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.09	0.52
1:AA:658:G:O4'	15:AO:22:THR:HB	2.09	0.52
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.09	0.52
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.42	0.52
38:DD:134:ARG:HG3	38:DD:135:PHE:HD1	1.74	0.52
35:DA:1614:A:N1	55:DW:91:GLY:HA2	2.24	0.52
32:B7:33:ARG:NH1	35:BA:467:G:OP1	2.42	0.52
24:CY:359:HIS:HB2	24:CY:362:HIS:O	2.09	0.52
6:CF:7:ASN:OD1	6:CF:62:TRP:HD1	1.91	0.52
5:CE:139:LEU:C	5:CE:141:GLN:H	2.13	0.52
54:DV:72:VAL:HG23	54:DV:85:LYS:HB2	1.92	0.52
1:CA:555:C:H2'	1:CA:556:C:C6	2.44	0.52
35:BA:2142:C:O2'	35:BA:2143:C:H5'	2.09	0.52
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.09	0.52
46:DN:78:TYR:CD1	46:DN:78:TYR:N	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:7:ARG:HA	48:DP:7:ARG:NH1	2.25	0.52
1:AA:433:C:O2'	1:AA:434:U:H5'	2.10	0.52
4:AD:13:ARG:O	4:AD:16:GLY:N	2.36	0.52
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.38	0.52
53:DU:113:ALA:C	53:DU:115:ALA:N	2.62	0.52
53:DU:84:LYS:C	53:DU:86:ALA:H	2.12	0.52
53:DU:61:TRP:HB3	53:DU:93:LYS:HB3	1.90	0.52
48:BP:33:ARG:O	48:BP:35:HIS:O	2.26	0.52
1:CA:1314:C:H2'	1:CA:1315:U:H6	1.74	0.52
35:DA:84:A:C5'	57:DY:9:LYS:HZ2	2.22	0.52
57:BY:7:VAL:HB	57:BY:8:LYS:CE	2.39	0.52
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.09	0.52
52:BT:65:LYS:HA	52:BT:65:LYS:HZ1	1.75	0.52
5:AE:101:ILE:HD11	5:AE:119:LEU:HD22	1.92	0.52
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.39	0.52
2:CB:126:GLU:HA	2:CB:129:GLU:CD	2.29	0.52
39:DE:144:ARG:O	39:DE:145:LYS:O	2.26	0.52
1:CA:189(D):C:H2'	1:CA:189(E):U:O4'	2.10	0.52
2:CB:238:LEU:HG	2:CB:238:LEU:O	2.08	0.52
35:BA:2229:C:O2'	35:BA:2230:G:H5'	2.10	0.52
35:DA:1814:G:H4'	38:DD:51:VAL:HG21	1.91	0.52
39:DE:57:LYS:HZ3	39:DE:63:LEU:HG	1.74	0.52
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.64	0.52
35:BA:1015:G:H2'	35:BA:1016:G:H8	1.74	0.52
51:DS:106:ARG:O	51:DS:107:GLU:CB	2.57	0.52
1:CA:80:G:H5''	1:CA:81:U:H5'	1.92	0.52
22:CW:65:G:H2'	22:CW:66:C:C1'	2.39	0.52
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.24	0.52
52:BT:6:LEU:O	52:BT:9:LEU:N	2.42	0.52
42:BH:46:GLU:CD	42:BH:51:ARG:HB2	2.29	0.52
1:CA:300:A:H2'	1:CA:301:G:O4'	2.08	0.52
46:BN:66:LYS:O	46:BN:67:LEU:HD23	2.08	0.52
27:D2:48:HIS:CG	27:D2:49:LYS:N	2.76	0.52
27:D2:57:ILE:O	27:D2:61:LEU:HG	2.10	0.52
51:DS:98:VAL:C	51:DS:100:ALA:N	2.61	0.52
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.23	0.52
39:BE:93:VAL:HG12	39:BE:175:VAL:HG21	1.90	0.52
24:AY:341:VAL:CG2	24:AY:350:GLU:HB2	2.39	0.52
55:BW:59:VAL:HG21	55:BW:66:GLU:HB2	1.92	0.52
35:DA:2161:C:O2'	35:DA:2162:G:H5'	2.09	0.52
3:AC:5:ILE:CD1	3:AC:5:ILE:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:79:VAL:O	54:DV:80:GLN:HB2	2.09	0.52
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.91	0.52
35:BA:363(F):A:O2'	35:BA:364:C:P	2.67	0.52
36:DB:61:G:O2'	36:DB:62:C:H5'	2.09	0.52
35:DA:64:A:H2'	35:DA:65:C:C6	2.45	0.52
22:CV:3:C:N4	22:CV:70:G:H1	2.06	0.52
35:DA:1829:A:N3	38:DD:15:PHE:HZ	2.08	0.52
1:AA:1375:A:H5'	1:AA:1376:U:OP2	2.10	0.52
35:BA:528:A:C2	35:BA:2043:C:C5'	2.92	0.52
3:AC:134:ILE:O	3:AC:137:ALA:N	2.42	0.52
3:AC:138:VAL:O	3:AC:139:GLN:C	2.48	0.52
54:BV:37:VAL:HG23	54:BV:37:VAL:O	2.10	0.52
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.91	0.52
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.08	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.09	0.52
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.09	0.52
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.44	0.52
41:BG:27:ASN:HB3	41:BG:30:GLU:H	1.73	0.52
16:CP:9:PHE:CE2	16:CP:18:ARG:CZ	2.92	0.52
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.09	0.52
35:BA:455:C:N3	35:BA:473:G:H5'	2.24	0.52
35:BA:1063:G:O2'	44:BK:87:GLY:HA3	2.09	0.52
24:CY:687:LEU:C	24:CY:688:ILE:HD12	2.29	0.52
58:BZ:3:TYR:HD2	58:BZ:47:VAL:HG13	1.75	0.52
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.73	0.52
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	0.52
3:AC:25:GLY:O	3:AC:27:LYS:N	2.37	0.52
42:DH:92:ILE:C	42:DH:94:TYR:H	2.13	0.52
35:DA:610:G:H22	35:DA:619:G:H1'	1.75	0.52
24:AY:550:MET:HE1	24:AY:563:ILE:HD11	1.91	0.52
35:DA:1461:G:H2'	35:DA:1462:C:H6	1.74	0.52
24:AY:411:VAL:CG1	24:AY:412:ALA:N	2.71	0.52
37:DC:60:ARG:HG2	37:DC:61:GLY:N	2.25	0.52
35:BA:648:G:H2'	35:BA:649:G:H8	1.73	0.52
1:CA:824:C:H2'	1:CA:825:G:H8	1.73	0.52
22:AV:7:G:H3'	22:AV:8:U:C5'	2.37	0.52
47:BO:10:VAL:HG23	47:BO:10:VAL:O	2.10	0.52
54:BV:69:LYS:HE3	54:BV:71:LEU:HD21	1.92	0.52
48:DP:9:ASN:N	48:DP:10:PRO:CD	2.73	0.52
39:BE:133:LYS:C	39:BE:134:ILE:HG13	2.29	0.52
37:BC:118:PRO:HB2	37:BC:148:PHE:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:12:VAL:CG1	56:BX:27:THR:HG23	2.38	0.52
24:CY:141:LYS:HE3	62:CY:703:GDP:N2	2.25	0.52
24:AY:121:VAL:CG2	24:AY:122:TRP:H	2.22	0.52
53:DU:49:HIS:C	53:DU:52:ARG:HB2	2.30	0.52
53:DU:56:ASP:O	53:DU:59:ARG:HB2	2.09	0.52
53:DU:57:PHE:C	53:DU:59:ARG:N	2.62	0.52
46:BN:3:THR:C	46:BN:4:TYR:CD1	2.83	0.52
53:BU:56:ASP:O	53:BU:59:ARG:HB2	2.10	0.52
31:B6:25:LYS:HE2	33:B8:34:TRP:HE1	1.74	0.52
31:B6:9:LEU:HD12	31:B6:28:ARG:CG	2.40	0.52
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.39	0.52
1:AA:1004:A:H5'	1:AA:1025:U:N3	2.25	0.52
31:D6:54:ILE:HD13	35:DA:2420:C:C4'	2.39	0.52
33:D8:28:GLY:HA2	33:D8:32:LEU:HD21	1.90	0.52
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	1.92	0.52
31:B6:15:GLU:HB2	31:B6:47:THR:HG21	1.91	0.52
35:BA:1453:U:H2'	35:BA:1455:G:N7	2.24	0.52
35:DA:2572:A:C8	39:DE:144:ARG:HB3	2.44	0.52
35:DA:624:C:N4	48:DP:107:LYS:NZ	2.57	0.52
48:BP:107:LYS:C	48:BP:109:GLY:N	2.63	0.52
29:D4:3:GLU:HG3	36:DB:43:C:OP1	2.10	0.52
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.25	0.52
35:BA:1145:C:H2'	35:BA:1146:C:C6	2.45	0.52
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.09	0.52
5:CE:11:ILE:HG13	5:CE:33:VAL:HG23	1.91	0.52
46:DN:96:GLU:CD	46:DN:96:GLU:N	2.61	0.52
26:D1:86:SER:CB	26:D1:90:ILE:HG12	2.39	0.52
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.74	0.52
52:DT:64:ARG:HH11	52:DT:64:ARG:HG2	1.74	0.52
1:AA:368:U:OP1	24:AY:351:ARG:NH1	2.41	0.52
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.24	0.52
40:BF:66:PRO:O	40:BF:67:GLN:HB3	2.09	0.52
11:CK:33:THR:HB	11:CK:38:ASN:O	2.09	0.52
35:BA:1654:A:C2	39:BE:113:PHE:CD1	2.98	0.52
35:DA:259:G:H1'	35:DA:621:A:O2'	2.08	0.52
39:BE:4:ILE:CG1	39:BE:5:LEU:N	2.72	0.52
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.50	0.52
9:CI:104:ARG:O	9:CI:105:ASP:CB	2.56	0.52
37:DC:97:GLY:O	37:DC:100:ILE:HG12	2.09	0.52
35:BA:285:C:O2'	35:BA:286:C:H5''	2.09	0.52
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:48:LYS:HB3	20:AT:51:GLU:CG	2.38	0.52
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.90	0.52
24:AY:438:PHE:C	24:AY:438:PHE:HD2	2.13	0.52
35:DA:909:A:O2'	35:DA:910:A:H5'	2.09	0.52
24:AY:530:VAL:HG22	24:AY:531:GLY:H	1.73	0.52
24:AY:613:PRO:C	24:AY:615:GLU:N	2.59	0.52
15:AO:11:VAL:O	15:AO:12:ILE:C	2.48	0.52
1:CA:1112:C:O2'	3:CC:179:ARG:HG2	2.10	0.52
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.09	0.52
1:AA:346:G:H2'	1:AA:347:G:O4'	2.10	0.52
35:DA:493:G:H2'	35:DA:494:G:O4'	2.09	0.52
1:CA:1261:A:C2'	1:CA:1262:C:H5'	2.39	0.52
1:AA:188:C:H2'	1:AA:189:G:C8	2.42	0.52
39:BE:101:ARG:NH1	39:BE:169:ASN:ND2	2.56	0.52
35:DA:2348:U:C2'	35:DA:2349:G:C5'	2.87	0.52
20:CT:33:ILE:CD1	20:CT:63:ILE:HA	2.39	0.52
35:BA:246:C:H2'	35:BA:247:G:H5'	1.92	0.52
1:AA:54:C:H2'	1:AA:352:C:N4	2.25	0.52
24:CY:223:PHE:CZ	24:CY:249:GLY:HA3	2.45	0.52
35:DA:1248:G:N3	53:DU:3:ARG:HD2	2.25	0.52
22:AV:2:G:C5'	25:B0:8:GLY:HA2	2.40	0.52
6:CF:15:ASP:C	6:CF:17:SER:N	2.62	0.52
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.90	0.52
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.45	0.52
2:AB:148:TYR:O	2:AB:149:LEU:HD23	2.10	0.52
35:BA:426:C:O2'	35:BA:427:U:H5'	2.09	0.52
7:AG:18:TYR:CD2	7:AG:59:LEU:HD13	2.44	0.52
35:DA:1204:A:H61	35:DA:1240:U:H2'	1.73	0.52
29:B4:1:MET:H1	36:BB:43:C:H4'	1.75	0.52
35:BA:2313:C:H5'	35:BA:2313:C:C6	2.41	0.52
41:BG:114:ILE:O	41:BG:114:ILE:HG22	2.10	0.52
40:BF:117:ARG:NH2	48:BP:5:ASP:N	2.58	0.52
24:AY:12:LEU:HB3	24:AY:283:PRO:CG	2.39	0.52
31:B6:27:LYS:HB3	31:B6:32:ASN:HD22	1.75	0.52
35:DA:272(I):U:H5	35:DA:363(A):A:H2	1.57	0.52
35:BA:1485:G:C1'	35:BA:1505:C:H42	2.18	0.52
33:D8:53:PRO:HA	33:D8:56:GLU:HB2	1.92	0.52
47:BO:64:ARG:HH21	47:BO:100:GLY:HA3	1.74	0.52
57:BY:77:PRO:O	57:BY:99:CYS:SG	2.61	0.52
57:BY:97:ARG:HG3	57:BY:97:ARG:NH1	2.24	0.52
35:BA:1080:C:H4'	44:BK:125:ARG:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1002:G:N2	1:CA:1039:C:H2'	2.25	0.52
30:D5:10:LYS:HB2	35:DA:2017:U:O2	2.10	0.52
35:BA:1821:A:H2'	35:BA:1822:G:H8	1.74	0.52
35:DA:1782:C:H2'	35:DA:1783:A:H5'	1.92	0.52
48:DP:85:LEU:HD12	48:DP:120:ALA:CB	2.33	0.52
48:BP:85:LEU:HD23	48:BP:85:LEU:N	2.17	0.52
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.30	0.52
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.31	0.52
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.78	0.52
27:B2:33:MET:O	27:B2:37:PHE:HD1	1.91	0.52
54:DV:93:GLU:O	54:DV:94:LEU:HD23	2.10	0.52
2:AB:187:LEU:HD23	2:AB:214:ILE:HG21	1.92	0.52
47:BO:69:ILE:HD13	47:BO:77:ILE:CG2	2.35	0.52
19:CS:13:ASP:C	19:CS:15:LEU:N	2.63	0.52
57:BY:62:GLU:CG	57:BY:63:LYS:N	2.73	0.52
35:DA:194:G:H2'	35:DA:195:A:O4'	2.10	0.52
12:CL:46:LYS:HB2	12:CL:92:ASP:O	2.09	0.52
35:DA:675:A:H4'	40:DF:67:GLN:OE1	2.08	0.52
47:DO:104:ARG:NH2	52:DT:33:LYS:HE3	2.24	0.52
39:BE:1:MET:HB2	39:BE:83:ASP:O	2.10	0.52
3:AC:5:ILE:HD13	3:AC:5:ILE:N	2.24	0.52
37:BC:98:GLU:O	37:BC:101:ILE:HD13	2.09	0.52
19:AS:6:LYS:N	19:AS:6:LYS:HE3	2.25	0.52
49:DQ:67:ARG:HD2	49:DQ:105:GLU:OE1	2.10	0.52
35:DA:548:A:C3'	35:DA:549:G:H5'	2.39	0.52
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HG3	2.25	0.52
3:CC:5:ILE:CD1	3:CC:5:ILE:N	2.72	0.52
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.90	0.52
50:BR:7:GLY:C	50:BR:8:ARG:NE	2.63	0.52
1:CA:998:G:H2'	1:CA:999:C:N1	2.24	0.52
2:AB:194:PRO:O	2:AB:196:LEU:N	2.43	0.52
26:B1:64:ALA:C	26:B1:66:HIS:H	2.12	0.52
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.28	0.52
1:CA:1378:C:O2	7:CG:76:ARG:NH2	2.43	0.52
35:BA:2347:C:H2'	35:BA:2348:U:C5	2.44	0.52
35:BA:451:C:H41	35:BA:453:C:H3'	1.74	0.52
1:CA:956:U:H2'	1:CA:957:U:H6	1.74	0.52
38:DD:209:ALA:C	38:DD:210:GLY:O	2.46	0.52
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.91	0.52
35:BA:737:C:H2'	35:BA:738:G:H5'	1.91	0.52
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:423:G:C2'	1:CA:424:G:H5'	2.40	0.52
6:CF:62:TRP:O	6:CF:63:TYR:CG	2.63	0.52
43:BJ:10:UNK:O	43:BJ:11:UNK:CB	2.58	0.52
54:BV:72:VAL:HG23	54:BV:85:LYS:HB2	1.91	0.52
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.10	0.52
35:DA:1205:U:C5	40:DF:171:PRO:HA	2.45	0.52
35:DA:1985:G:O2'	35:DA:1986:A:H5'	2.09	0.52
46:DN:49:GLY:CA	46:DN:119:ARG:HH12	2.22	0.52
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.42	0.52
50:BR:26:LYS:CE	50:BR:71:GLN:H	2.23	0.52
35:DA:2121:G:O2'	37:DC:168:LYS:HG2	2.09	0.52
44:BK:61:ALA:C	44:BK:63:ARG:H	2.13	0.52
35:DA:2771:C:H2'	35:DA:2772:C:C6	2.45	0.52
35:DA:1839:G:N3	35:DA:1839:G:H2'	2.24	0.52
44:DK:61:ALA:C	44:DK:63:ARG:H	2.12	0.52
4:CD:9:CYS:HB3	4:CD:32:ALA:HB2	1.90	0.52
61:CY:702:FUA:O1	61:CY:702:FUA:H201	2.09	0.52
24:AY:282:SER:O	24:AY:284:LEU:N	2.43	0.52
34:D9:4:ARG:HH12	35:DA:2477:C:N4	2.07	0.52
38:DD:39:LYS:HZ2	38:DD:87:ASN:HB3	1.74	0.52
31:B6:27:LYS:O	31:B6:27:LYS:CD	2.55	0.52
48:BP:62:LEU:HD22	48:BP:62:LEU:H	1.71	0.52
35:DA:2415:G:H4'	48:DP:66:GLY:C	2.29	0.52
30:D5:45:VAL:HG22	30:D5:51:TYR:CD1	2.44	0.52
55:DW:88:ARG:HD3	55:DW:94:ASP:OD1	2.09	0.52
47:DO:61:VAL:HG21	47:DO:111:PHE:CE2	2.45	0.52
31:B6:37:ARG:NH2	35:BA:2286:A:N6	2.58	0.52
31:D6:41:PRO:O	31:D6:42:TRP:C	2.48	0.52
5:CE:142:LEU:O	5:CE:143:ARG:NE	2.43	0.52
46:DN:15:LEU:HD12	46:DN:136:GLU:HG3	1.92	0.52
27:B2:7:ARG:HG3	27:B2:7:ARG:HH11	1.73	0.52
35:BA:154(A):C:H3'	35:BA:155:U:H5''	1.92	0.52
35:BA:1819:A:H1'	35:BA:1821:A:C6	2.45	0.52
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.92	0.52
48:BP:99:LEU:HA	48:BP:102:ARG:HH12	1.74	0.52
48:BP:83:VAL:HG11	48:BP:112:LEU:HD21	1.91	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.10	0.52
41:DG:131:TYR:CE2	41:DG:133:LEU:HD23	2.39	0.52
19:AS:31:ILE:O	19:AS:31:ILE:HG23	2.10	0.52
19:AS:41:VAL:O	19:AS:41:VAL:HG23	2.09	0.52
1:CA:972:C:H4'	10:CJ:57:LYS:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:55:LYS:CE	10:CJ:55:LYS:N	2.63	0.52
51:DS:26:LEU:O	51:DS:88:ASP:HB3	2.10	0.52
41:DG:101:ILE:O	41:DG:104:GLU:HB3	2.10	0.52
35:BA:2816:C:O2	35:BA:2883:A:O2'	2.28	0.52
19:CS:19:VAL:CG1	19:CS:44:MET:HG2	2.40	0.52
52:BT:56:GLY:O	52:BT:59:THR:HG23	2.10	0.52
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.25	0.52
24:AY:486:THR:HG23	24:AY:600:VAL:HG13	1.91	0.52
58:DZ:81:ARG:HH11	58:DZ:81:ARG:HB3	1.73	0.52
4:AD:107:ARG:HH21	4:AD:194:LEU:HD12	1.75	0.52
4:AD:196:LEU:C	4:AD:198:VAL:H	2.12	0.52
1:AA:1026:G:C3'	1:AA:1027:C:H5'	2.40	0.52
29:D4:53:GLU:OE1	29:D4:55:ARG:HD3	2.09	0.52
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.29	0.52
35:BA:1542:A:H8	35:BA:1542:A:H3'	1.74	0.52
42:BH:159:GLU:O	42:BH:160:LYS:O	2.26	0.52
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.10	0.52
28:B3:56:VAL:CG1	28:B3:57:GLU:N	2.73	0.52
1:CA:630:G:H2'	1:CA:631:G:H5''	1.85	0.52
1:AA:1351:U:O4'	7:AG:33:ASP:HB3	2.09	0.52
28:B3:15:TYR:HD2	28:B3:19:GLN:HE22	1.57	0.52
35:DA:2105:C:H2'	35:DA:2106:G:H5'	1.91	0.52
48:DP:13:ASN:O	48:DP:14:LYS:CB	2.57	0.52
35:BA:1865:G:C2'	35:BA:1866:C:H5''	2.40	0.52
26:B1:68:PRO:C	26:B1:70:VAL:H	2.13	0.52
32:B7:46:VAL:CG1	32:B7:47:ARG:N	2.73	0.52
22:CW:52:C:H2'	22:CW:53:G:H5''	1.91	0.52
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.74	0.52
35:DA:1865:G:C2'	35:DA:1866:C:H5''	2.40	0.52
35:BA:1491:G:N2	35:BA:1492:G:H1'	2.24	0.52
16:CP:50:LYS:HG2	16:CP:51:VAL:H	1.74	0.52
1:CA:818:G:O2'	1:CA:819:A:H5'	2.10	0.52
24:CY:334:THR:CG2	24:CY:368:GLU:HB2	2.40	0.52
35:DA:134:C:H2'	35:DA:135:G:C8	2.44	0.52
35:DA:455:C:N3	35:DA:473:G:H5'	2.25	0.52
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.10	0.52
35:DA:1908:C:H2'	35:DA:1909:C:H6	1.74	0.52
1:AA:418:C:H2'	1:AA:419:C:C6	2.45	0.52
1:AA:423:G:H2'	1:AA:424:G:H5'	1.91	0.52
35:BA:402:A:O2'	35:BA:403:U:H5'	2.10	0.52
35:BA:1624:G:O2'	35:BA:1625:C:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.91	0.52
35:DA:1983:C:O2'	35:DA:1984:G:H5'	2.10	0.52
1:CA:452:A:O2'	1:CA:453:A:H8	1.91	0.52
1:CA:680:C:O2'	1:CA:681:C:H5'	2.10	0.52
16:AP:19:ILE:N	16:AP:37:GLY:O	2.39	0.52
35:DA:123:G:O2'	35:DA:124:G:H5'	2.10	0.52
40:DF:117:ARG:NH2	48:DP:5:ASP:N	2.58	0.52
10:AJ:82:ILE:O	10:AJ:86:MET:CB	2.58	0.52
4:CD:17:VAL:O	4:CD:18:LYS:O	2.27	0.52
40:BF:110:LEU:CD1	40:BF:206:ILE:HD11	2.31	0.52
24:AY:180:VAL:HG23	24:AY:216:LEU:CD1	2.37	0.52
46:DN:10:GLU:CD	46:DN:11:PRO:HD2	2.30	0.52
24:AY:413:ILE:HD11	24:AY:474:ALA:HB3	1.92	0.52
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.32	0.52
33:B8:13:ARG:HB3	48:BP:63:PRO:HB3	1.91	0.52
31:D6:9:LEU:HD22	31:D6:9:LEU:O	2.10	0.52
41:DG:139:LEU:HA	41:DG:144:ILE:HD13	1.92	0.52
41:DG:40:ASN:ND2	41:DG:90:LEU:O	2.42	0.52
41:DG:55:LYS:C	41:DG:57:ALA:N	2.63	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:CB	2.39	0.52
10:CJ:33:GLN:HB2	10:CJ:75:ILE:HD13	1.91	0.52
47:BO:63:VAL:O	47:BO:64:ARG:HG2	2.10	0.52
55:BW:88:ARG:HD3	55:BW:94:ASP:OD1	2.09	0.52
48:DP:39:LYS:HE2	48:DP:40:SER:N	2.17	0.52
24:CY:33:LEU:CD2	24:CY:360:ALA:HB2	2.27	0.52
31:D6:24:GLU:OE2	35:DA:2346:A:H8	1.93	0.52
1:AA:1129:C:H5'	1:AA:1129:C:C6	2.44	0.52
18:AR:37:VAL:HG23	18:AR:38:GLU:HG2	1.91	0.52
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.24	0.52
24:AY:35:TYR:HH	24:AY:266:ASN:HB3	1.72	0.52
39:DE:117:MET:HA	39:DE:122:PHE:N	2.13	0.52
35:DA:142(A):C:O2'	35:DA:1597:A:H5''	2.09	0.52
35:DA:2307:G:N2	35:DA:2308:G:C5'	2.72	0.52
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.45	0.52
48:BP:102:ARG:O	48:BP:102:ARG:HG2	2.09	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HD12	2.39	0.52
28:B3:17:LYS:HZ2	28:B3:20:LYS:HE3	1.74	0.52
46:DN:58:ASP:O	46:DN:60:ILE:HG13	2.09	0.52
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.91	0.52
50:DR:117:VAL:O	50:DR:118:GLU:CB	2.56	0.52
9:AI:93:ARG:HA	9:AI:96:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	2.09	0.52
24:CY:509:HIS:O	24:CY:510:VAL:HG23	2.10	0.52
24:AY:340:TYR:CE1	24:AY:351:ARG:HB2	2.45	0.52
35:BA:7:G:O2'	35:BA:8:A:H5'	2.10	0.52
24:CY:441:SER:O	24:CY:449:THR:HA	2.09	0.52
35:DA:2019:A:O4'	53:DU:34:LYS:HD2	2.09	0.52
50:DR:4:LEU:C	50:DR:6:SER:N	2.63	0.52
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.49	0.52
50:BR:4:LEU:C	50:BR:6:SER:H	2.13	0.52
55:DW:20:VAL:HG23	55:DW:47:VAL:HG21	1.91	0.52
35:DA:1516:C:C2'	35:DA:1517:G:C5'	2.87	0.52
35:BA:881:G:C2'	35:BA:882:G:H5'	2.39	0.52
35:DA:841:A:H5'	35:DA:841:A:H8	1.73	0.52
1:CA:560:U:H4'	1:CA:561:U:H5''	1.92	0.52
34:B9:29:ASN:H	34:B9:29:ASN:ND2	2.07	0.52
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.40	0.52
35:DA:65:C:H5'	56:DX:71:GLY:HA3	1.91	0.52
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HG3	2.24	0.52
1:AA:1347:G:HO2'	1:AA:1373:G:H1	1.58	0.52
8:AH:41:ARG:NH2	8:AH:123:GLU:CD	2.63	0.52
22:AW:1:C:H2'	22:AW:2:G:C8	2.40	0.52
55:DW:14:PRO:HG2	55:DW:78:GLU:HB2	1.91	0.52
1:AA:187:C:OP1	20:AT:82:SER:HB2	2.08	0.52
1:AA:490:G:H2'	1:AA:491:G:C8	2.41	0.52
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.92	0.52
4:AD:120:LEU:HB3	4:AD:126:ILE:HD11	1.92	0.52
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.44	0.52
54:DV:2:PHE:CE1	54:DV:13:ARG:NH1	2.77	0.52
50:DR:28:LEU:HD22	50:DR:29:LEU:HD12	1.92	0.52
46:DN:137:LYS:O	46:DN:138:LEU:HD23	2.09	0.52
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.10	0.52
15:AO:65:ARG:NH1	15:AO:65:ARG:HG2	2.25	0.52
35:DA:2220:G:H2'	35:DA:2221:G:H8	1.75	0.52
51:BS:51:ALA:HB3	51:BS:73:LEU:HB2	1.92	0.52
24:CY:374:LEU:HD12	24:CY:374:LEU:N	2.25	0.52
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.08	0.52
44:DK:74:ALA:HB2	44:DK:111:LYS:HE2	1.92	0.52
1:CA:155:C:H2'	1:CA:156:G:H8	1.75	0.52
46:BN:74:ARG:NH2	46:BN:83:LYS:HD3	2.24	0.52
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.92	0.52
32:D7:17:GLY:O	32:D7:20:ALA:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:12:G:N2	22:AW:13:C:H1'	2.25	0.52
35:DA:1666:G:C2'	35:DA:1667:G:H5'	2.39	0.52
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.44	0.52
25:D0:23:VAL:HG11	25:D0:69:PHE:HZ	1.75	0.52
35:BA:1400:G:H2'	35:BA:1401:G:C8	2.44	0.52
7:AG:69:VAL:HG21	7:AG:104:LEU:HD21	1.92	0.52
41:BG:62:LEU:HD12	41:BG:62:LEU:N	2.23	0.52
10:AJ:3:LYS:HG3	10:AJ:75:ILE:O	2.10	0.52
56:BX:55:ASN:HB2	56:BX:80:ILE:HG12	1.91	0.52
24:AY:19:ALA:HA	24:AY:121:VAL:HG11	1.91	0.52
35:BA:1204:A:N1	35:BA:1241:A:H2	2.07	0.52
46:DN:3:THR:C	46:DN:4:TYR:CD1	2.83	0.52
53:DU:99:ALA:HB2	53:DU:106:PHE:CE1	2.44	0.52
35:BA:941:A:H4'	48:BP:35:HIS:HE1	1.74	0.52
57:DY:7:VAL:HB	57:DY:8:LYS:CE	2.40	0.52
57:DY:96:ILE:CD1	57:DY:99:CYS:SG	2.98	0.52
56:BX:10:ALA:HB1	56:BX:11:PRO:CD	2.40	0.52
31:D6:10:LEU:HB3	33:D8:34:TRP:HD1	1.75	0.52
33:D8:51:ALA:HA	33:D8:54:GLU:OE1	2.09	0.52
1:AA:1303:C:N4	1:AA:1304:G:C6	2.78	0.52
35:DA:1453:U:H2'	35:DA:1455:G:N7	2.25	0.52
3:CC:72:LYS:HE3	3:CC:72:LYS:HA	1.92	0.52
24:CY:152:THR:CG2	24:CY:153:MET:N	2.73	0.52
30:B5:41:PRO:O	30:B5:44:THR:OG1	2.20	0.52
30:B5:45:VAL:HG22	30:B5:51:TYR:CD1	2.44	0.52
31:D6:13:CYS:HB3	31:D6:49:HIS:HB3	1.91	0.52
5:CE:76:ILE:CG2	5:CE:118:ILE:HD13	2.40	0.52
39:DE:38:THR:CB	39:DE:41:LYS:HG2	2.32	0.52
35:DA:514:A:H2'	35:DA:515:A:H8	1.73	0.52
26:B1:86:SER:O	26:B1:90:ILE:N	2.43	0.52
54:DV:16:PRO:O	54:DV:96:ILE:O	2.28	0.52
48:BP:107:LYS:HG3	48:BP:107:LYS:O	2.10	0.52
2:CB:189:ASP:O	2:CB:191:ASP:N	2.43	0.52
39:DE:77:ILE:C	39:DE:78:LEU:HG	2.30	0.52
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.25	0.52
27:B2:38:GLN:HA	27:B2:41:ILE:HG23	1.91	0.52
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.92	0.52
17:CQ:66:SER:O	17:CQ:70:ARG:NH1	2.43	0.52
39:BE:10:GLY:HA2	39:BE:192:ASN:HD21	1.75	0.52
39:DE:176:ILE:CG2	39:DE:178:GLU:HB3	2.36	0.52
1:CA:297:G:H4'	1:CA:557:G:H4'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:50:ILE:CG1	52:BT:102:ILE:HD11	2.40	0.52
35:BA:259:G:H1'	35:BA:621:A:O2'	2.09	0.52
9:AI:79:LEU:HD11	9:AI:83:ARG:CD	2.40	0.52
35:DA:1654:A:H2	39:DE:113:PHE:CD1	2.28	0.52
51:DS:30:ARG:HH22	51:DS:62:LYS:HD2	1.75	0.52
35:DA:2177:C:O2	37:DC:173:HIS:HE1	1.92	0.52
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.92	0.52
46:DN:35:ARG:O	46:DN:37:LYS:HB2	2.09	0.52
6:AF:45:LEU:O	6:AF:46:ARG:CG	2.56	0.52
35:DA:2118:U:OP1	35:DA:2148:G:H4'	2.10	0.52
24:CY:15:ILE:HD12	24:CY:81:ILE:HG23	1.90	0.52
1:AA:383:A:C2'	1:AA:384:G:H5'	2.40	0.52
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.40	0.52
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.73	0.52
12:AL:86:ARG:O	12:AL:86:ARG:HG2	2.08	0.52
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.91	0.52
25:D0:74:ARG:HG2	36:DB:13:A:OP2	2.10	0.52
53:DU:26:GLY:C	53:DU:28:ARG:H	2.14	0.52
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.39	0.52
24:CY:68:ALA:HB3	24:CY:327:PHE:CD1	2.45	0.52
37:DC:120:VAL:O	37:DC:124:VAL:HG23	2.10	0.52
39:DE:10:GLY:HA2	39:DE:192:ASN:HD21	1.75	0.52
1:CA:263:A:OP2	20:CT:79:ARG:NH1	2.43	0.52
13:AM:54:VAL:HG12	13:AM:58:GLU:HG2	1.91	0.52
48:BP:89:ALA:HA	48:BP:121:LYS:HD3	1.91	0.52
16:AP:4:ILE:HG13	16:AP:64:ALA:HB1	1.92	0.52
1:CA:715:A:H2'	1:CA:716:A:H8	1.75	0.52
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE1	1.90	0.52
37:BC:42:VAL:O	37:BC:176:VAL:HG22	2.10	0.52
1:CA:352:C:H4'	1:CA:354:G:OP1	2.08	0.52
1:CA:164:U:H2'	1:CA:165:C:C6	2.44	0.52
1:CA:781:A:H2'	1:CA:782:A:H5'	1.90	0.52
1:AA:352:C:H4'	1:AA:354:G:OP1	2.10	0.52
50:DR:53:HIS:O	50:DR:53:HIS:ND1	2.42	0.52
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.45	0.52
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.91	0.52
35:BA:1913:A:H4'	35:BA:1914:C:H5''	1.92	0.52
22:CW:16:C:O2	22:CW:61:U:H4'	2.10	0.52
35:BA:1040:C:C4	35:BA:1041:C:C4	2.98	0.52
22:CV:9:G:O2'	22:CV:10:G:N7	2.35	0.52
35:DA:1432:C:H2'	35:DA:1433:U:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.75	0.52
54:BV:99:ILE:N	54:BV:99:ILE:HD13	2.25	0.52
24:CY:236:GLU:HG3	24:CY:236:GLU:O	2.08	0.52
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.06	0.52
1:CA:509:A:N1	1:CA:510:A:C2	2.78	0.52
24:AY:86:GLY:O	24:AY:88:VAL:HG22	2.09	0.52
53:DU:79:PHE:CE2	53:DU:83:LEU:HD11	2.45	0.52
24:AY:12:LEU:CB	24:AY:283:PRO:HG2	2.39	0.52
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.92	0.52
31:B6:27:LYS:HZ2	31:B6:30:THR:HB	1.75	0.52
35:DA:252:G:O2'	35:DA:253:C:H5'	2.09	0.52
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.75	0.52
35:DA:154(A):C:N4	35:DA:172:C:H42	2.08	0.52
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.30	0.52
22:CW:20:G:H4'	22:CW:21:U:OP1	2.09	0.52
44:DK:106:GLU:CA	44:DK:109:LYS:HD3	2.30	0.52
48:BP:101:VAL:HG12	48:BP:106:LEU:CB	2.40	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HB	2.30	0.52
41:DG:94:LEU:HD22	41:DG:98:ARG:CB	2.39	0.52
35:BA:2747:G:H21	35:BA:2757:A:H62	1.56	0.52
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	2.10	0.52
58:DZ:18:LEU:O	58:DZ:21:ALA:HB3	2.10	0.52
58:DZ:17:ALA:O	58:DZ:20:ARG:HG2	2.09	0.52
50:BR:28:LEU:HD22	50:BR:29:LEU:HD12	1.91	0.52
22:CW:14:A:C2'	22:CW:15:G:H5''	2.40	0.52
35:BA:677:A:H4'	35:BA:2070:G:O2'	2.10	0.52
24:AY:373:ASP:C	24:AY:374:LEU:HD12	2.29	0.52
30:D5:48:GLU:O	30:D5:49:CYS:SG	2.68	0.52
46:DN:87:LEU:O	46:DN:90:MET:N	2.43	0.52
1:CA:1495:U:C2	1:CA:1496:C:C5	2.97	0.52
52:BT:55:ASN:HD22	52:BT:58:ASN:ND2	2.07	0.52
40:DF:66:PRO:O	40:DF:67:GLN:HB3	2.09	0.52
35:BA:2461:C:H42	35:BA:2489:G:H1	1.58	0.52
22:CV:36:U:O2	24:CY:502:GLY:HA2	2.10	0.52
1:AA:1313:U:OP2	19:AS:6:LYS:CB	2.58	0.52
44:DK:17:ALA:HB3	44:DK:38:VAL:CG2	2.38	0.52
50:BR:12:ARG:HB3	50:BR:16:HIS:CD2	2.45	0.52
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.25	0.52
29:B4:31:ILE:CG2	29:B4:33:VAL:HG23	2.39	0.52
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.10	0.52
4:CD:2:GLY:O	4:CD:4:TYR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:117:THR:HG22	37:DC:147:GLY:O	2.09	0.52
12:CL:23:LYS:HE3	12:CL:89:ARG:HE	1.75	0.52
35:DA:2873:A:H4'	50:DR:8:ARG:NH2	2.25	0.52
28:B3:28:LEU:CD2	28:B3:35:ARG:HD2	2.40	0.52
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.24	0.52
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.45	0.52
35:DA:2105:C:C2'	35:DA:2106:G:H5'	2.39	0.52
25:B0:20:ARG:HG2	25:B0:20:ARG:HH11	1.75	0.52
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	1.92	0.52
1:AA:658:G:H2'	1:AA:659:U:C6	2.45	0.52
4:AD:36:ARG:HH11	4:AD:36:ARG:CG	2.23	0.52
36:BB:29:A:H3'	51:BS:32:LEU:HD11	1.92	0.52
35:DA:483:A:N3	35:DA:483:A:H2'	2.25	0.52
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.45	0.52
26:B1:30:VAL:H	35:BA:2396:G:H4'	1.73	0.52
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.25	0.52
20:CT:33:ILE:HD13	20:CT:63:ILE:HA	1.90	0.52
13:CM:80:ARG:O	13:CM:83:ASP:HB3	2.10	0.52
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.45	0.52
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.23	0.52
27:B2:53:LEU:O	27:B2:53:LEU:HD23	2.09	0.52
35:BA:634:C:H2'	35:BA:635:C:C6	2.45	0.52
43:BJ:6:UNK:O	43:BJ:8:UNK:N	2.43	0.52
7:CG:78:ARG:HH11	7:CG:78:ARG:HG3	1.75	0.52
44:BK:132:ARG:HG3	44:BK:132:ARG:HH11	1.74	0.52
40:BF:100:THR:O	40:BF:100:THR:HG22	2.08	0.52
30:B5:39:MET:HG3	55:BW:34:ASN:ND2	2.25	0.52
35:BA:2373:G:H2'	35:BA:2374:C:C6	2.45	0.52
41:BG:146:TYR:O	41:BG:149:VAL:HG12	2.09	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.91	0.51
42:DH:97:ARG:O	42:DH:98:LEU:C	2.47	0.51
35:DA:2050:C:O2'	35:DA:2051:A:H5'	2.10	0.51
24:AY:205:TYR:O	24:AY:207:ASP:N	2.43	0.51
50:BR:99:LYS:CD	50:BR:99:LYS:N	2.59	0.51
41:BG:77:ILE:HG21	41:BG:80:PHE:CB	2.40	0.51
46:BN:10:GLU:CD	46:BN:11:PRO:HD2	2.31	0.51
53:BU:57:PHE:C	53:BU:59:ARG:N	2.62	0.51
48:BP:47:ASP:HB3	48:BP:48:PRO:O	2.09	0.51
35:DA:303:U:H2'	35:DA:304:G:H8	1.74	0.51
35:BA:272(I):U:C4	35:BA:363(A):A:N1	2.74	0.51
35:BA:302:C:H2'	35:BA:303:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.92	0.51
30:B5:40:LYS:HZ1	30:B5:46:CYS:H	1.57	0.51
47:DO:113:LYS:O	47:DO:117:LEU:HD12	2.10	0.51
31:B6:15:GLU:OE1	31:B6:41:PRO:CG	2.58	0.51
35:DA:1058:G:H21	44:DK:126:MET:CE	2.23	0.51
35:BA:154(A):C:N4	35:BA:172:C:H42	2.07	0.51
53:DU:10:ARG:O	53:DU:12:ARG:N	2.43	0.51
35:DA:1192:G:H2'	35:DA:1193:G:O4'	2.10	0.51
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.46	0.51
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.91	0.51
35:BA:2811:G:O2'	35:BA:2812:G:H5'	2.10	0.51
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.74	0.51
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.74	0.51
35:DA:2296:U:C4'	35:DA:2297:C:OP1	2.52	0.51
29:D4:22:ILE:HD12	29:D4:22:ILE:N	2.25	0.51
49:BQ:2:LEU:O	49:BQ:3:MET:HB3	2.09	0.51
49:BQ:69:PHE:CD1	49:BQ:70:PRO:HD2	2.44	0.51
36:DB:87:G:O3'	36:DB:88:C:C6	2.63	0.51
24:AY:486:THR:HG21	24:AY:602:LEU:HD11	1.92	0.51
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.40	0.51
24:CY:533:VAL:HG12	24:CY:571:SER:HA	1.92	0.51
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.45	0.51
38:BD:26:LYS:HE2	38:BD:26:LYS:HA	1.91	0.51
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.25	0.51
12:AL:27:LEU:C	12:AL:29:GLY:N	2.62	0.51
42:DH:54:ARG:O	42:DH:54:ARG:HD2	2.10	0.51
35:BA:860:U:O4'	35:BA:860:U:O2	2.28	0.51
9:CI:73:GLN:O	9:CI:76:ALA:N	2.44	0.51
44:DK:17:ALA:HB1	44:DK:38:VAL:HG22	1.92	0.51
35:DA:1164:G:H1	35:DA:1185:C:H42	1.57	0.51
4:AD:159:ARG:O	4:AD:163:GLU:N	2.43	0.51
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.45	0.51
35:DA:278:A:C2	35:DA:279:C:C2	2.98	0.51
55:BW:36:LEU:HD12	55:BW:48:ALA:HA	1.92	0.51
1:AA:1131:G:C6	1:AA:1132:C:N4	2.79	0.51
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.75	0.51
3:CC:134:ILE:O	3:CC:137:ALA:N	2.43	0.51
47:DO:64:ARG:HH21	47:DO:100:GLY:HA3	1.75	0.51
24:CY:427:ALA:HB1	24:CY:466:LEU:CG	2.40	0.51
1:CA:346:G:H2'	1:CA:347:G:O4'	2.10	0.51
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.93	0.51
1:AA:59:A:H3'	1:AA:331:G:H22	1.75	0.51
48:BP:13:ASN:O	48:BP:14:LYS:CB	2.58	0.51
1:CA:512:U:H2'	1:CA:513:C:C6	2.45	0.51
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.75	0.51
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.83	0.51
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.39	0.51
42:BH:104:GLU:HA	42:BH:113:VAL:O	2.10	0.51
1:CA:433:C:O2'	1:CA:434:U:H5'	2.10	0.51
35:DA:1400:G:H2'	35:DA:1401:G:C8	2.45	0.51
35:DA:1310:G:H2'	35:DA:1311:G:H5'	1.92	0.51
35:BA:445:C:O2'	35:BA:446:G:H5'	2.09	0.51
55:DW:80:PRO:O	55:DW:100:THR:HG21	2.10	0.51
35:BA:1465:G:H2'	35:BA:1466:G:H8	1.75	0.51
50:BR:104:ARG:HG3	50:BR:111:LEU:HD21	1.91	0.51
24:CY:549:ALA:HB2	24:CY:587:SER:OG	2.09	0.51
35:DA:634:C:H2'	35:DA:635:C:C6	2.45	0.51
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.91	0.51
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.75	0.51
36:DB:35:U:O2	36:DB:35:U:H2'	2.08	0.51
1:CA:117:G:O5'	1:CA:117:G:H8	1.92	0.51
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.74	0.51
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.31	0.51
35:DA:2050:C:H1'	39:DE:156:MET:CE	2.40	0.51
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.39	0.51
24:AY:9:LEU:O	24:AY:11:ARG:N	2.44	0.51
31:B6:31:PRO:O	31:B6:32:ASN:OD1	2.28	0.51
31:B6:10:LEU:HD12	33:B8:34:TRP:HB2	1.93	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:H5'	1.92	0.51
40:DF:168:ARG:C	40:DF:170:LEU:H	2.14	0.51
57:DY:85:VAL:HG13	57:DY:93:GLY:O	2.10	0.51
57:BY:28:LYS:HE3	57:BY:30:VAL:HG22	1.92	0.51
35:DA:2392:A:H2	35:DA:2424:C:H42	1.58	0.51
29:D4:10:VAL:CG2	29:D4:11:PRO:HD2	2.36	0.51
41:DG:71:THR:CG2	41:DG:89:GLY:HA3	2.40	0.51
10:CJ:3:LYS:HD2	10:CJ:77:PRO:CD	2.40	0.51
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.48	0.51
31:D6:15:GLU:OE2	31:D6:44:ARG:CZ	2.57	0.51
49:DQ:55:VAL:HG23	58:DZ:178:GLU:HG3	1.91	0.51
47:BO:111:PHE:O	47:BO:115:VAL:HG23	2.10	0.51
39:BE:63:LEU:O	39:BE:64:LYS:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2572:A:C8	39:BE:144:ARG:HB3	2.45	0.51
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.24	0.51
35:BA:1145:C:H2'	35:BA:1146:C:H6	1.75	0.51
35:DA:2377:A:O2'	35:DA:2378:A:H5'	2.09	0.51
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	1.92	0.51
40:BF:69:HIS:N	40:BF:69:HIS:CD2	2.78	0.51
4:AD:129:ASN:N	4:AD:129:ASN:HD22	2.07	0.51
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.75	0.51
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.41	0.51
26:D1:73:LEU:HD23	26:D1:73:LEU:O	2.11	0.51
1:CA:814:A:H2'	1:CA:816:A:C5'	2.38	0.51
10:CJ:8:LEU:HB2	10:CJ:70:ARG:O	2.09	0.51
32:D7:48:LYS:NZ	35:DA:125:G:H21	2.06	0.51
37:DC:30:VAL:O	37:DC:33:LEU:N	2.43	0.51
1:CA:1313:U:OP2	19:CS:6:LYS:CB	2.58	0.51
35:BA:841:A:H8	35:BA:841:A:H5'	1.75	0.51
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.10	0.51
52:BT:128:GLU:O	52:BT:129:ARG:HD3	2.11	0.51
24:CY:125:ALA:C	24:CY:127:LYS:N	2.62	0.51
24:CY:95:GLU:OE2	24:CY:124:GLN:HB3	2.11	0.51
22:AV:52:G:C2	22:AV:53:G:C8	2.99	0.51
35:BA:750:A:H3'	35:BA:751:A:H5''	1.92	0.51
36:BB:60:C:H2'	36:BB:61:G:C8	2.41	0.51
24:AY:688:ILE:O	24:AY:688:ILE:HG22	2.10	0.51
35:DA:1683:C:H2'	35:DA:1684:C:H6	1.76	0.51
10:CJ:22:LYS:O	10:CJ:22:LYS:HD2	2.11	0.51
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.46	0.51
35:BA:1721:G:H8	35:BA:1741:A:H62	1.58	0.51
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.74	0.51
36:DB:77:U:O2'	58:DZ:78:LYS:HE2	2.10	0.51
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.10	0.51
1:CA:539:A:H2'	1:CA:540:G:H8	1.74	0.51
6:CF:19:LEU:C	6:CF:19:LEU:HD23	2.30	0.51
16:AP:60:LEU:HD21	16:AP:66:PRO:HD3	1.92	0.51
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.43	0.51
1:AA:665:A:H2'	1:AA:732:C:O2	2.11	0.51
58:DZ:141:VAL:HG22	58:DZ:150:LEU:HD11	1.92	0.51
38:BD:134:ARG:HG2	38:BD:187:GLY:O	2.11	0.51
57:DY:43:ASN:HA	57:DY:64:GLU:HA	1.93	0.51
24:CY:215:LYS:HA	24:CY:218:GLU:HB3	1.92	0.51
24:AY:644:ARG:O	24:AY:645:ALA:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:153:ARG:HG2	4:AD:153:ARG:NH1	2.25	0.51
35:DA:402:A:O2'	35:DA:403:U:H5'	2.08	0.51
35:BA:2373:G:O2'	35:BA:2374:C:H5'	2.10	0.51
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.44	0.51
11:AK:29:ILE:HB	11:AK:44:SER:HB2	1.92	0.51
4:AD:150:GLU:HG2	4:AD:151:LYS:N	2.24	0.51
39:DE:203:LYS:HG3	39:DE:204:ALA:N	2.25	0.51
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.92	0.51
1:CA:1394:A:N6	1:CA:1501:C:H5'	2.26	0.51
1:CA:111:G:O6	1:CA:330:C:N4	2.42	0.51
44:BK:84:LEU:HD21	44:BK:96:VAL:HB	1.91	0.51
35:DA:2422:A:H4'	35:DA:2423:U:OP1	2.10	0.51
19:AS:27:GLU:O	19:AS:28:LYS:O	2.28	0.51
42:BH:173:PRO:O	42:BH:175:LYS:N	2.43	0.51
41:BG:63:ILE:HD12	41:BG:63:ILE:C	2.31	0.51
37:BC:84:ILE:HG12	37:BC:96:GLY:O	2.10	0.51
35:BA:2733:A:H2'	35:BA:2734:A:O4'	2.10	0.51
12:AL:59:ARG:NE	24:AY:422:GLU:OE2	2.44	0.51
33:B8:33:ASN:HA	33:B8:36:LYS:HG3	1.93	0.51
35:BA:664:C:O2'	35:BA:665:C:H5'	2.10	0.51
57:DY:97:ARG:NH1	57:DY:97:ARG:HG3	2.24	0.51
48:BP:38:GLN:CG	48:BP:39:LYS:H	2.07	0.51
47:BO:60:ALA:C	47:BO:87:ILE:HD11	2.31	0.51
44:DK:112:MET:N	44:DK:113:PRO:CD	2.72	0.51
35:DA:2308:G:H22	41:DG:79:ASN:HB2	1.73	0.51
48:DP:127:ALA:HB3	48:DP:130:PHE:CE1	2.45	0.51
33:B8:4:MET:HE1	33:B8:61:LEU:HD22	1.92	0.51
48:BP:128:HIS:ND1	48:BP:148:LEU:HD13	2.25	0.51
2:CB:51:LEU:CD2	2:CB:55:PHE:HE2	2.24	0.51
19:AS:13:ASP:C	19:AS:15:LEU:N	2.63	0.51
29:B4:51:ASP:OD2	29:B4:52:THR:N	2.43	0.51
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.45	0.51
35:BA:281:G:N2	35:BA:358:U:C5	2.79	0.51
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.91	0.51
24:AY:33:LEU:HD11	24:AY:81:ILE:HD12	1.93	0.51
24:AY:15:ILE:CD1	24:AY:81:ILE:HG12	2.38	0.51
2:AB:223:ILE:O	2:AB:225:ALA:N	2.44	0.51
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.78	0.51
37:DC:153:ILE:O	37:DC:157:ILE:HG13	2.11	0.51
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	2.19	0.51
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:55:ASN:H	52:BT:59:THR:HG21	1.76	0.51
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.10	0.51
5:AE:60:TYR:HE1	5:AE:64:ARG:NH2	2.08	0.51
9:CI:79:LEU:HD11	9:CI:83:ARG:CD	2.40	0.51
1:AA:439:A:H2'	1:AA:441:A:H5'	1.92	0.51
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.07	0.51
20:CT:57:ARG:HH11	20:CT:102:GLY:HA2	1.75	0.51
1:CA:1123:A:O3'	10:CJ:36:GLY:HA3	2.09	0.51
35:BA:1516:C:C2'	35:BA:1517:G:C5'	2.88	0.51
1:AA:1271:G:H2'	1:AA:1272:G:C8	2.45	0.51
1:AA:1029:C:O2'	1:AA:1032:G:N2	2.43	0.51
2:CB:233:SER:OG	2:CB:234:PRO:HD2	2.10	0.51
12:AL:39:VAL:HB	12:AL:57:LYS:HB2	1.91	0.51
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.25	0.51
35:DA:1829:A:N3	38:DD:15:PHE:CZ	2.78	0.51
12:CL:39:VAL:HG21	12:CL:57:LYS:HD2	1.91	0.51
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.09	0.51
13:CM:56:LEU:HD13	13:CM:60:VAL:HG23	1.92	0.51
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.58	0.51
54:DV:5:VAL:HG23	54:DV:37:VAL:HG23	1.91	0.51
24:CY:294:PRO:HG2	24:CY:295:GLU:OE2	2.11	0.51
35:BA:389:G:N1	48:BP:71:VAL:HG12	2.23	0.51
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.25	0.51
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.92	0.51
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.75	0.51
18:AR:40:LEU:C	18:AR:42:ARG:N	2.64	0.51
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.92	0.51
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.45	0.51
54:DV:13:ARG:HG3	54:DV:13:ARG:HH11	1.74	0.51
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.75	0.51
35:DA:1210:A:H5''	35:DA:1212:G:O4'	2.11	0.51
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.28	0.51
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.09	0.51
41:DG:181:ARG:NH1	41:DG:181:ARG:HB2	2.26	0.51
38:DD:78:LYS:HG2	38:DD:79:VAL:N	2.24	0.51
35:BA:537:C:H6	35:BA:537:C:O5'	1.93	0.51
35:DA:860:U:O2	35:DA:860:U:O4'	2.29	0.51
49:DQ:41:TRP:NE1	49:DQ:96:VAL:HG22	2.24	0.51
1:AA:263:A:OP2	20:AT:79:ARG:NH1	2.43	0.51
35:BA:648:G:H2'	35:BA:649:G:C8	2.44	0.51
35:DA:338:G:H2'	35:DA:339:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.10	0.51
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.11	0.51
22:AW:44:A:H2'	22:AW:45:A:C8	2.46	0.51
1:CA:529:G:O6	12:CL:49:ASN:HA	2.10	0.51
24:AY:385:THR:HG21	24:AY:436:PRO:HG3	1.92	0.51
1:AA:622:A:C8	1:AA:623:C:C5	2.98	0.51
32:B7:17:GLY:O	32:B7:20:ALA:HB3	2.10	0.51
40:DF:24:LEU:O	40:DF:26:ALA:N	2.42	0.51
24:CY:606:MET:HE3	24:CY:671:MET:HG2	1.92	0.51
24:CY:90:PHE:HD1	24:CY:90:PHE:H	1.59	0.51
41:BG:77:ILE:CG2	41:BG:80:PHE:N	2.62	0.51
35:DA:613:G:C8	35:DA:613:G:H5'	2.44	0.51
35:BA:941:A:H4'	48:BP:35:HIS:CE1	2.45	0.51
57:DY:95:LYS:CD	57:DY:101:LYS:H	2.24	0.51
57:DY:14:LEU:HD11	57:DY:22:GLY:HA2	1.92	0.51
58:DZ:10:ARG:HD2	58:DZ:36:LYS:CE	2.25	0.51
35:DA:272(I):U:O2	35:DA:272(I):U:C3'	2.59	0.51
41:DG:58:GLN:O	41:DG:61:ALA:HB3	2.10	0.51
41:DG:57:ALA:HA	41:DG:90:LEU:CD2	2.41	0.51
24:CY:110:SER:HA	24:CY:149:VAL:HG21	1.93	0.51
24:CY:153:MET:HA	24:CY:157:LEU:CD2	2.30	0.51
30:B5:44:THR:HG23	50:BR:101:ALA:N	2.25	0.51
3:CC:32:LEU:O	3:CC:35:GLU:HB3	2.10	0.51
39:DE:38:THR:O	39:DE:42:ASP:HB2	2.11	0.51
35:DA:1596:A:O2'	35:DA:1597:A:H5'	2.10	0.51
35:DA:2307:G:H21	35:DA:2308:G:C5'	2.23	0.51
35:BA:1782:C:H2'	35:BA:1783:A:H5'	1.92	0.51
1:AA:1014:A:H5''	19:AS:14:HIS:HB2	1.92	0.51
39:DE:34:VAL:O	39:DE:34:VAL:HG22	2.11	0.51
39:BE:34:VAL:HG12	39:BE:48:GLN:O	2.10	0.51
39:BE:69:LYS:O	39:BE:70:ALA:C	2.48	0.51
26:B1:76:ARG:HH22	26:B1:95:LEU:CD2	2.24	0.51
29:D4:19:GLY:O	29:D4:20:ASN:C	2.49	0.51
54:DV:19:LYS:NZ	54:DV:22:VAL:HG13	2.25	0.51
35:DA:2820:A:O3'	50:DR:5:LYS:HE3	2.11	0.51
54:BV:19:LYS:NZ	54:BV:22:VAL:HG13	2.26	0.51
54:DV:62:LEU:N	54:DV:62:LEU:HD22	2.25	0.51
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.75	0.51
12:CL:78:GLN:O	12:CL:79:GLU:C	2.47	0.51
6:CF:67:MET:HE1	6:CF:72:VAL:HA	1.92	0.51
36:BB:87:G:O3'	36:BB:88:C:C6	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.92	0.51
35:DA:1947:C:H2'	35:DA:1948:G:C5'	2.36	0.51
58:BZ:142:SER:H	58:BZ:144:LEU:CD2	2.21	0.51
35:DA:1654:A:OP2	50:DR:3:HIS:HB2	2.10	0.51
35:DA:7:G:O2'	35:DA:8:A:H5'	2.11	0.51
1:CA:1026:G:C3'	1:CA:1027:C:H5'	2.40	0.51
35:DA:260:G:H1'	35:DA:621:A:H1'	1.92	0.51
35:DA:1576:U:H2'	35:DA:1577:C:C6	2.46	0.51
46:BN:35:ARG:HB3	46:BN:42:TRP:CH2	2.45	0.51
36:DB:94:C:H2'	36:DB:95:C:H6	1.75	0.51
35:BA:2177:C:O2	37:BC:173:HIS:HE1	1.92	0.51
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.91	0.51
35:DA:1721:G:H8	35:DA:1741:A:H62	1.58	0.51
52:BT:62:THR:HG22	52:BT:75:ILE:HG13	1.92	0.51
38:BD:153:ALA:O	38:BD:154:LYS:CG	2.58	0.51
35:BA:828:U:C5	35:BA:829:A:N6	2.79	0.51
3:CC:179:ARG:NH2	3:CC:206:GLU:OE2	2.43	0.51
13:CM:54:VAL:HG12	13:CM:58:GLU:HG2	1.91	0.51
24:CY:553:GLY:H	24:CY:557:GLY:CA	2.24	0.51
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.58	0.51
38:DD:210:GLY:O	38:DD:211:ARG:HB3	2.11	0.51
37:DC:73:VAL:CG1	37:DC:158:LYS:HA	2.39	0.51
22:CW:5:G:O6	22:CW:69:C:N3	2.43	0.51
35:DA:680:G:H2'	35:DA:681:G:H8	1.75	0.51
45:BL:87:UNK:HA	45:BL:90:UNK:CB	2.40	0.51
24:CY:558:PHE:O	24:CY:559:PRO:C	2.49	0.51
28:D3:2:PRO:O	28:D3:3:ARG:O	2.29	0.51
47:DO:20:MET:HE3	47:DO:44:LYS:HE3	1.93	0.51
50:DR:104:ARG:HG3	50:DR:111:LEU:HD21	1.91	0.51
35:DA:2626:C:H2'	35:DA:2627:G:O4'	2.10	0.51
1:CA:636:U:H2'	1:CA:637:G:C8	2.45	0.51
19:CS:79:THR:HG22	19:CS:80:TYR:N	2.25	0.51
56:DX:61:GLY:HA3	56:DX:73:ARG:O	2.10	0.51
22:AW:63:C:H2'	22:AW:64:G:C8	2.45	0.51
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.45	0.51
2:AB:137:ARG:HD3	2:AB:137:ARG:C	2.30	0.51
35:DA:2577:A:H5'	35:DA:2578:G:C5'	2.39	0.51
1:CA:1129:C:H5'	1:CA:1129:C:H6	1.75	0.51
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.92	0.51
35:DA:211:A:C3'	35:DA:212:G:H5''	2.40	0.51
22:AW:18:U:O2	22:AW:18:U:H2'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:61:TRP:CB	53:BU:93:LYS:HB3	2.39	0.51
53:BU:92:ARG:HD3	53:BU:94:ASN:CB	2.41	0.51
35:BA:1047:G:HO2'	35:BA:1110:G:N2	2.09	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:C4'	2.39	0.51
33:B8:53:PRO:HA	33:B8:56:GLU:HB2	1.93	0.51
57:DY:12:THR:HG23	57:DY:25:GLY:O	2.11	0.51
57:BY:14:LEU:HD11	57:BY:22:GLY:HA2	1.93	0.51
57:BY:94:LYS:O	57:BY:102:CYS:HB2	2.10	0.51
31:D6:9:LEU:CD2	31:D6:26:ASN:HD22	2.24	0.51
10:CJ:3:LYS:HG3	10:CJ:75:ILE:O	2.10	0.51
1:AA:1237:C:OP1	1:AA:1238:A:H1'	2.10	0.51
52:BT:112:ARG:C	52:BT:115:ARG:HD3	2.31	0.51
51:BS:101:LEU:C	51:BS:101:LEU:HD12	2.31	0.51
31:D6:42:TRP:HA	31:D6:42:TRP:CE3	2.44	0.51
54:BV:16:PRO:O	54:BV:96:ILE:O	2.28	0.51
49:DQ:108:GLY:O	49:DQ:109:VAL:HG23	2.11	0.51
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.24	0.51
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.75	0.51
24:AY:428:LEU:HD13	24:AY:440:VAL:CG1	2.28	0.51
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.41	0.51
2:CB:151:GLY:O	2:CB:152:PHE:C	2.48	0.51
35:BA:1858:G:H2'	35:BA:1883:G:N2	2.25	0.51
35:DA:1820:U:C2	38:DD:202:LYS:HG2	2.45	0.51
46:DN:23:LEU:HB3	46:DN:60:ILE:CG2	2.37	0.51
30:B5:55:ARG:O	30:B5:56:LYS:CB	2.51	0.51
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.10	0.51
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.33	0.51
13:CM:91:ARG:HH21	19:CS:81:ARG:HH21	1.57	0.51
17:CQ:59:ILE:HG23	17:CQ:71:PHE:CB	2.34	0.51
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.26	0.51
52:BT:99:LEU:HB2	52:BT:101:PHE:CE1	2.46	0.51
35:DA:796:C:H2'	35:DA:797:C:H6	1.73	0.51
35:DA:2776:A:H4'	35:DA:2777:G:H5''	1.93	0.51
35:BA:1528:A:C2	35:BA:1542:A:H2	2.29	0.51
24:CY:544:LYS:O	24:CY:548:GLU:HB3	2.10	0.51
4:CD:96:LEU:N	4:CD:96:LEU:HD22	2.23	0.51
55:DW:20:VAL:O	55:DW:23:LEU:N	2.42	0.51
24:AY:350:GLU:HA	24:AY:350:GLU:OE1	2.10	0.51
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.46	0.51
24:AY:65:ILE:O	24:AY:67:ALA:N	2.44	0.51
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:98:GLU:O	37:DC:101:ILE:HD13	2.10	0.51
35:DA:588:U:H1'	40:DF:90:PHE:CG	2.45	0.51
1:CA:986:A:H2'	1:CA:987:G:C8	2.46	0.51
35:BA:787:U:OP1	35:BA:1780:A:N6	2.43	0.51
35:DA:528:A:H2	35:DA:2043:C:H5'	1.74	0.51
50:DR:72:ASP:CG	50:DR:75:LEU:H	2.14	0.51
1:CA:375:U:C2	1:CA:376:G:C8	2.98	0.51
35:DA:782:A:C2	38:DD:226:MET:HG2	2.46	0.51
1:CA:1345:U:OP1	9:CI:120:ARG:NH1	2.43	0.51
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.45	0.51
24:AY:603:GLU:HB2	24:AY:604:PRO:HD2	1.91	0.51
24:CY:335:LEU:O	24:CY:368:GLU:HA	2.09	0.51
35:DA:1248:G:C4	53:DU:3:ARG:HD2	2.45	0.51
35:DA:2860:A:C2'	35:DA:2861:G:H5'	2.40	0.51
35:BA:2859:G:H2'	35:BA:2860:A:C8	2.46	0.51
35:BA:852:G:H2'	35:BA:853:G:C8	2.45	0.51
35:DA:2870:C:H5''	50:DR:65:LEU:HD21	1.93	0.51
8:AH:114:THR:HG21	8:AH:129:VAL:HG23	1.93	0.51
42:DH:34:GLU:O	42:DH:36:PRO:HD3	2.11	0.51
24:CY:394:ALA:HB1	24:CY:395:PRO:CD	2.41	0.51
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.11	0.51
1:AA:119:A:O2'	1:AA:120:A:OP2	2.19	0.51
44:BK:70:LYS:HE3	44:BK:70:LYS:N	2.26	0.51
1:AA:117:G:H8	1:AA:117:G:O5'	1.94	0.51
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.11	0.51
37:BC:149:ASN:HD22	37:BC:149:ASN:N	2.07	0.51
40:BF:181:LEU:HB3	40:BF:205:ARG:HH12	1.69	0.51
24:AY:216:LEU:HD23	24:AY:216:LEU:C	2.31	0.51
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HB2	2.46	0.51
35:DA:1748:G:C8	35:DA:1748:G:H5'	2.40	0.51
31:B6:11:LEU:HD13	31:B6:11:LEU:O	2.11	0.51
41:DG:108:ASN:O	41:DG:109:VAL:HG23	2.10	0.51
41:DG:59:GLU:HG2	41:DG:60:LEU:N	2.26	0.51
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.11	0.51
8:AH:104:ARG:O	8:AH:105:ARG:C	2.48	0.51
24:CY:181:LEU:HD12	24:CY:242:LEU:HD13	1.93	0.51
37:DC:104:ILE:HG23	37:DC:108:TRP:O	2.11	0.51
1:AA:1129:C:H6	1:AA:1129:C:H5'	1.74	0.51
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.10	0.51
2:CB:97:TRP:CH2	2:CB:176:GLU:CD	2.84	0.51
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:116:VAL:O	39:BE:117:MET:CB	2.42	0.51
48:BP:146:VAL:HG13	48:BP:147:LEU:N	2.25	0.51
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.93	0.51
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.92	0.51
35:DA:2747:G:H21	35:DA:2757:A:H62	1.58	0.51
38:BD:239:ARG:HH21	38:BD:239:ARG:HG2	1.75	0.51
35:DA:2298:A:N6	35:DA:2318:G:H8	2.08	0.51
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.10	0.51
22:CW:65:G:H2'	22:CW:66:C:O4'	2.11	0.51
35:DA:2502:G:H5''	35:DA:2503:A:C5'	2.37	0.51
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.44	0.51
24:CY:510:VAL:HA	24:CY:570:GLY:CA	2.40	0.51
27:B2:48:HIS:CD2	35:BA:96:G:H4'	2.45	0.51
34:D9:29:ASN:H	34:D9:29:ASN:ND2	2.09	0.51
12:CL:26:ALA:O	12:CL:27:LEU:O	2.29	0.51
35:BA:1477:A:H5'	35:BA:1478:G:OP2	2.11	0.51
35:BA:2020:A:H2'	35:BA:2021:C:H5''	1.91	0.51
35:DA:2465:C:O2'	35:DA:2466:C:H5'	2.11	0.51
1:CA:1124:G:C5'	10:CJ:35:SER:HB2	2.41	0.51
53:BU:110:VAL:HG12	53:BU:114:LYS:HD2	1.91	0.51
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.45	0.51
35:DA:1517:G:C8	35:DA:1517:G:H5'	2.40	0.51
35:DA:990:A:C6	35:DA:1186:G:H1'	2.45	0.51
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.11	0.51
28:D3:56:VAL:CG1	28:D3:57:GLU:N	2.74	0.51
35:BA:120:U:O2'	35:BA:149:A:C8	2.60	0.51
42:BH:103:LEU:HB2	42:BH:123:PHE:HD2	1.75	0.51
35:BA:2872:G:C2	35:BA:2873:A:N6	2.78	0.51
13:CM:3:ARG:HD3	29:D4:34:GLU:HG2	1.92	0.51
24:CY:165:GLN:HE21	24:CY:177:ILE:HG21	1.75	0.51
25:B0:25:ARG:HD2	25:B0:29:GLN:HE21	1.73	0.51
35:BA:2617:C:C2'	35:BA:2618:G:H5'	2.41	0.51
46:DN:18:ALA:HB3	46:DN:21:LYS:HB2	1.92	0.51
35:BA:1035:U:H2'	35:BA:1036:G:C8	2.44	0.51
1:CA:159:G:C2'	1:CA:160:A:H5''	2.41	0.51
9:AI:40:LEU:CD1	9:AI:70:LYS:HG2	2.40	0.51
1:CA:1378:C:OP1	7:CG:7:ALA:HB3	2.10	0.51
38:BD:9:TYR:CD2	38:BD:10:THR:HG22	2.45	0.51
20:AT:42:GLN:NE2	20:AT:42:GLN:HA	2.25	0.51
58:BZ:3:TYR:CD2	58:BZ:51:ALA:HB2	2.45	0.51
38:BD:134:ARG:HG3	38:BD:135:PHE:HD1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1908:C:H2'	35:BA:1909:C:H6	1.75	0.51
35:BA:2377:A:O2'	35:BA:2378:A:H5'	2.10	0.51
35:BA:2220:G:H2'	35:BA:2221:G:H8	1.76	0.51
2:CB:8:LYS:O	2:CB:11:LEU:N	2.39	0.51
35:DA:208:C:H2'	35:DA:209:C:H6	1.74	0.51
35:BA:536:A:H2'	35:BA:537:C:C6	2.46	0.51
35:BA:338:G:H2'	35:BA:339:U:C6	2.46	0.51
33:B8:15:LYS:HB2	48:BP:65:ARG:HH12	1.75	0.51
39:BE:104:VAL:HG22	39:BE:198:VAL:HG22	1.91	0.51
35:BA:1450(A):C:H2'	35:BA:1451:C:C6	2.45	0.51
39:BE:152:LYS:HG3	39:BE:153:GLY:N	2.26	0.51
41:DG:103:LEU:HD23	41:DG:106:LEU:HD23	1.92	0.51
1:CA:119:A:O2'	1:CA:120:A:OP2	2.26	0.51
35:BA:685:A:C5	35:BA:774:A:C2	2.98	0.51
38:DD:4:LYS:NZ	38:DD:21:PHE:H	2.09	0.51
24:AY:616:TYR:HB3	24:AY:662:LYS:O	2.11	0.51
41:BG:82:LEU:C	41:BG:82:LEU:HD23	2.31	0.51
24:CY:609:GLU:HG3	24:CY:670:VAL:HG21	1.92	0.51
23:AX:13:A:H5'	23:AX:14:A:OP1	2.11	0.51
40:BF:24:LEU:O	40:BF:26:ALA:N	2.43	0.51
48:BP:9:ASN:N	48:BP:10:PRO:CD	2.74	0.51
46:DN:1:MET:HE2	46:DN:2:LYS:N	2.26	0.51
24:AY:282:SER:C	24:AY:284:LEU:H	2.14	0.51
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.10	0.51
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.92	0.51
35:BA:274:G:C2'	35:BA:274:G:N3	2.74	0.51
41:DG:105:LYS:HD3	41:DG:143:GLU:OE1	2.11	0.51
19:AS:10:PHE:HZ	19:AS:70:LYS:HZ3	1.57	0.51
35:DA:2230:G:H2'	35:DA:2231:C:C6	2.46	0.51
52:DT:112:ARG:C	52:DT:115:ARG:HD3	2.31	0.51
35:BA:943:U:OP2	48:BP:38:GLN:OE1	2.28	0.51
35:BA:644:A:C2	35:BA:2369:A:H1'	2.46	0.51
51:BS:30:ARG:HH22	51:BS:62:LYS:HD2	1.75	0.51
5:CE:78:HIS:CE1	5:CE:80:ILE:HG23	2.46	0.51
35:BA:515:A:C2	35:BA:1261:C:H1'	2.46	0.51
27:D2:10:LEU:HD22	27:D2:14:ARG:NH2	2.26	0.51
46:BN:132:ALA:O	46:BN:133:GLN:HB2	2.11	0.51
6:AF:38:GLU:HB2	6:AF:64:GLN:O	2.10	0.51
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.93	0.51
35:DA:2590:A:OP2	38:DD:238:GLY:HA2	2.11	0.51
54:DV:19:LYS:HB3	54:DV:94:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.92	0.51
24:AY:367:GLU:O	24:AY:368:GLU:HB3	2.10	0.51
6:CF:71:ARG:NH1	6:CF:71:ARG:HG3	2.25	0.51
49:BQ:54:MET:CG	49:BQ:64:ILE:HD13	2.39	0.51
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.19	0.51
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.35	0.51
42:DH:84:SER:OG	42:DH:85:LYS:N	2.43	0.51
58:BZ:107:THR:HG23	58:BZ:111:VAL:CG2	2.40	0.51
40:DF:174:VAL:HG21	40:DF:189:THR:CG2	2.41	0.51
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.10	0.51
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.63	0.51
39:DE:1:MET:HB2	39:DE:83:ASP:O	2.10	0.51
4:CD:155:LEU:O	4:CD:156:GLU:C	2.49	0.51
46:DN:65:LYS:HZ2	46:DN:65:LYS:CB	2.20	0.51
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.44	0.51
1:AA:1122:U:C2'	1:AA:1123:A:H5'	2.40	0.51
35:BA:1164:G:H1	35:BA:1185:C:H42	1.58	0.51
6:CF:45:LEU:O	6:CF:46:ARG:CG	2.58	0.51
35:DA:1992:G:N2	35:DA:1996:C:O2	2.31	0.51
50:DR:12:ARG:HB3	50:DR:16:HIS:CD2	2.46	0.51
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.25	0.51
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.40	0.51
1:AA:460:G:O6	1:AA:470:C:H4'	2.11	0.51
3:CC:136:GLN:C	3:CC:138:VAL:N	2.59	0.51
42:BH:37:VAL:CG1	42:BH:38:SER:N	2.74	0.51
35:BA:567:A:N1	35:BA:571:A:H8	2.09	0.51
13:AM:54:VAL:O	13:AM:56:LEU:N	2.43	0.51
1:AA:1294:G:C2'	1:AA:1295:G:H5'	2.41	0.51
24:CY:448:GLN:HE22	24:CY:480:GLN:HE21	1.59	0.51
35:BA:1718:G:C8	35:BA:1718:G:H5'	2.43	0.51
46:BN:137:LYS:O	46:BN:138:LEU:HD23	2.10	0.51
35:DA:1913:A:H4'	35:DA:1914:C:H5''	1.91	0.51
42:BH:105:LEU:HD23	42:BH:105:LEU:N	2.25	0.51
8:AH:29:SER:OG	8:AH:32:LYS:HG3	2.10	0.51
44:DK:70:LYS:HE3	44:DK:70:LYS:N	2.25	0.51
1:CA:719:C:C2	18:CR:50:ILE:HG12	2.45	0.51
35:DA:1450(A):C:H2'	35:DA:1451:C:C6	2.46	0.51
1:CA:771:G:H2'	1:CA:772:U:C6	2.45	0.51
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.93	0.51
11:CK:17:GLY:O	11:CK:80:VAL:HA	2.10	0.51
35:DA:1204:A:N1	35:DA:1241:A:H2	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:616:TYR:CD2	24:AY:663:THR:HA	2.46	0.51
10:AJ:37:PRO:CA	10:AJ:72:VAL:HG22	2.36	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
1:AA:509:A:C2	1:AA:510:A:C2	2.98	0.51
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.69	0.51
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.40	0.51
24:AY:122:TRP:CD1	24:AY:123:ARG:N	2.79	0.51
53:DU:79:PHE:O	53:DU:83:LEU:HD13	2.11	0.51
31:B6:11:LEU:CD2	31:B6:51:GLU:HG3	2.40	0.51
31:B6:8:LYS:NZ	35:BA:2285:C:C5	2.77	0.51
48:DP:47:ASP:OD1	48:DP:49:ARG:HB2	2.10	0.51
27:D2:37:PHE:HE2	56:DX:11:PRO:HB3	1.76	0.51
10:CJ:78:ASN:C	10:CJ:79:ARG:HH11	2.15	0.51
58:BZ:152:ALA:CA	58:BZ:167:PRO:HB2	2.41	0.51
24:CY:162:VAL:HG11	24:CY:216:LEU:HD12	1.92	0.51
31:B6:15:GLU:HB2	31:B6:49:HIS:CE1	2.45	0.51
31:D6:17:LYS:O	31:D6:20:ASN:ND2	2.44	0.51
58:DZ:179:ASP:HB3	58:DZ:182:LYS:CE	2.29	0.51
39:DE:116:VAL:O	39:DE:117:MET:CB	2.47	0.51
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.45	0.51
1:CA:129(A):G:C6	1:CA:189(E):U:H4'	2.46	0.51
1:AA:703:G:O2'	1:AA:704:A:OP2	2.29	0.51
1:AA:265:G:H2'	1:AA:267:C:H5	1.76	0.51
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.13	0.51
1:AA:1452:C:H1'	1:AA:1456:G:C2	2.44	0.51
38:BD:267:SER:C	38:BD:269:PHE:H	2.14	0.51
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.91	0.51
13:CM:96:LEU:HB3	13:CM:97:PRO:CD	2.36	0.51
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.10	0.51
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	2.11	0.51
42:DH:46:GLU:HG3	42:DH:51:ARG:HB2	1.92	0.51
24:AY:573:HIS:CD2	24:AY:575:VAL:H	2.28	0.51
1:CA:276:G:O2'	1:CA:277:C:H5'	2.10	0.51
46:DN:35:ARG:HB3	46:DN:42:TRP:CH2	2.46	0.51
36:DB:94:C:H2'	36:DB:95:C:C6	2.46	0.51
35:BA:346:A:N3	35:BA:346:A:H2'	2.26	0.51
35:DA:802:A:H2'	35:DA:803:U:C6	2.45	0.51
35:BA:990:A:C6	35:BA:1186:G:H1'	2.45	0.51
24:CY:106:VAL:HG23	24:CY:132:ARG:HG3	1.93	0.51
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.11	0.51
13:AM:9:ILE:N	13:AM:9:ILE:HD12	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.75	0.51
35:BA:958:U:H6	35:BA:958:U:H3'	1.76	0.51
24:AY:519:ARG:NH1	24:AY:678:GLU:CB	2.74	0.51
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.41	0.51
1:CA:59:A:H3'	1:CA:331:G:H22	1.75	0.51
24:CY:68:ALA:HB3	24:CY:327:PHE:CE1	2.46	0.51
20:AT:74:LYS:H	20:AT:74:LYS:HD3	1.76	0.51
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.40	0.51
54:DV:35:LEU:C	54:DV:37:VAL:N	2.63	0.51
47:DO:34:THR:O	47:DO:35:VAL:C	2.49	0.51
49:DQ:75:THR:CG2	49:DQ:76:LYS:N	2.74	0.51
35:BA:658:C:H2'	35:BA:659:C:C6	2.46	0.51
35:BA:2395:C:C2	35:BA:2396:G:C8	2.99	0.51
35:DA:1063:G:O2'	35:DA:1064:C:H5'	2.10	0.51
22:AV:73:A:O3'	22:AV:74:C:H6	1.94	0.51
1:AA:956:U:H2'	1:AA:957:U:H6	1.76	0.51
15:AO:65:ARG:HD2	15:AO:65:ARG:H	1.76	0.51
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.11	0.51
1:CA:771:G:H2'	1:CA:772:U:H6	1.76	0.51
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.10	0.51
35:DA:86:C:H4'	35:DA:104:U:H1'	1.92	0.51
58:DZ:185:GLU:O	58:DZ:187:ALA:N	2.43	0.51
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.46	0.51
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.25	0.51
35:BA:1420:U:H2'	35:BA:1421:G:H5'	1.92	0.51
29:B4:1:MET:SD	41:BG:98:ARG:CG	2.99	0.51
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.11	0.51
35:DA:768:G:H2'	35:DA:769:G:H8	1.76	0.51
31:B6:9:LEU:O	31:B6:9:LEU:HD13	2.11	0.51
33:B8:28:GLY:HA2	33:B8:32:LEU:HD21	1.92	0.51
41:DG:109:VAL:C	41:DG:112:PRO:HD2	2.31	0.51
41:DG:55:LYS:HG2	41:DG:58:GLN:NE2	2.24	0.51
5:CE:77:PRO:HG2	5:CE:78:HIS:H	1.76	0.51
49:DQ:56:ARG:NH2	58:DZ:180:VAL:HG21	2.17	0.51
40:BF:127:GLU:HB2	40:BF:196:LEU:HD11	1.93	0.51
39:DE:145:LYS:O	39:DE:148:GLY:N	2.44	0.51
35:BA:650:C:C2'	35:BA:651:G:H5''	2.41	0.51
35:BA:2306:C:C5	35:BA:2307:G:O2'	2.63	0.51
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.26	0.51
39:BE:111:ARG:CZ	50:BR:2:ARG:HH21	2.24	0.51
35:BA:2820:A:O3'	50:BR:5:LYS:HE3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:631:ILE:HG23	24:CY:632:LEU:N	2.26	0.51
39:BE:87:GLU:O	39:BE:89:ASP:N	2.44	0.51
1:AA:972:C:H4'	10:AJ:57:LYS:HB2	1.93	0.51
41:DG:100:TRP:O	41:DG:104:GLU:HB2	2.10	0.51
49:BQ:2:LEU:HG	49:BQ:69:PHE:CE1	2.46	0.51
20:CT:13:LEU:O	20:CT:16:HIS:N	2.44	0.51
54:BV:93:GLU:O	54:BV:94:LEU:HD23	2.11	0.51
24:AY:15:ILE:O	24:AY:15:ILE:HD12	2.11	0.51
27:D2:3:LEU:HD22	27:D2:7:ARG:NH2	2.25	0.51
54:BV:62:LEU:N	54:BV:62:LEU:HD22	2.26	0.51
13:CM:116:THR:CG2	13:CM:117:VAL:N	2.74	0.51
52:DT:82:LEU:HD23	52:DT:85:LYS:HD2	1.93	0.51
57:BY:10:GLY:O	57:BY:27:VAL:HG22	2.11	0.51
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.11	0.51
36:BB:87:G:C2'	36:BB:88:C:H5''	2.40	0.51
42:BH:83:TYR:CB	42:BH:134:SER:HA	2.37	0.51
46:BN:95:PRO:HA	46:BN:98:VAL:HG23	1.93	0.51
42:BH:16:SER:HB2	42:BH:27:LYS:CB	2.35	0.51
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.49	0.51
50:BR:117:VAL:O	50:BR:118:GLU:CB	2.57	0.51
3:CC:151:VAL:HG12	3:CC:152:ILE:N	2.25	0.51
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.10	0.51
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.92	0.51
32:D7:48:LYS:HZ3	35:DA:125:G:H21	1.58	0.51
58:BZ:40:ASP:HB3	58:BZ:43:GLU:HG2	1.92	0.51
24:CY:191:ASP:O	24:CY:193:GLY:N	2.44	0.51
7:CG:5:ARG:HD2	7:CG:5:ARG:N	2.26	0.51
20:AT:57:ARG:HH11	20:AT:102:GLY:HA2	1.76	0.51
24:CY:330:VAL:HG12	24:CY:331:TYR:N	2.25	0.51
1:AA:1270:C:H2'	1:AA:1271:G:H8	1.74	0.51
36:DB:81:G:H5'	36:DB:81:G:N3	2.26	0.51
37:DC:101:ILE:N	37:DC:101:ILE:HD12	2.26	0.51
24:CY:106:VAL:HG12	24:CY:108:PHE:CE1	2.46	0.51
1:CA:1029:C:O2'	1:CA:1032:G:N2	2.44	0.51
35:DA:753:C:H2'	35:DA:754:C:H6	1.75	0.51
56:BX:70:LEU:C	56:BX:70:LEU:HD23	2.31	0.51
36:DB:68:C:O2'	36:DB:69:G:H5'	2.11	0.51
2:CB:95:GLN:HE21	2:CB:147:LYS:HE3	1.75	0.51
1:CA:353:A:H5'	1:CA:353:A:C8	2.41	0.51
25:D0:77:ARG:NH2	35:DA:857:C:H5'	2.23	0.51
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:528:A:C2	35:DA:2043:C:C5'	2.94	0.51
35:BA:20:C:H2'	35:BA:21:A:H8	1.76	0.51
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.10	0.51
1:AA:1261:A:C2'	1:AA:1262:C:H5'	2.39	0.51
38:DD:148:GLU:HB2	38:DD:151:LYS:CG	2.41	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.46	0.51
1:AA:514:C:H2'	1:AA:515:G:H8	1.76	0.51
46:BN:102:ALA:O	46:BN:106:MET:CE	2.58	0.51
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.46	0.51
38:BD:210:GLY:O	38:BD:211:ARG:HB3	2.11	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.11	0.51
1:AA:296:U:O2'	1:AA:297:G:H5'	2.11	0.51
6:CF:24:GLU:OE2	6:CF:28:ARG:NH1	2.44	0.51
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	1.92	0.51
35:DA:1216:G:N2	35:DA:1234:U:H1'	2.26	0.51
1:AA:651:C:H2'	1:AA:652:U:C6	2.46	0.51
6:AF:15:ASP:C	6:AF:17:SER:N	2.61	0.51
35:BA:2705:A:H2'	35:BA:2706:G:O4'	2.11	0.51
58:DZ:167:PRO:HG2	58:DZ:167:PRO:O	2.11	0.51
52:DT:36:GLU:O	52:DT:36:GLU:HG2	2.11	0.51
1:AA:1430:C:C2	1:AA:1471:G:N2	2.79	0.51
37:BC:60:ARG:HG2	37:BC:61:GLY:H	1.75	0.51
3:AC:141:VAL:HG12	3:AC:146:ALA:HB3	1.92	0.51
1:CA:229:U:O2'	1:CA:230:G:H5'	2.10	0.51
29:B4:3:GLU:HG3	36:BB:43:C:P	2.51	0.51
41:BG:102:PHE:O	41:BG:103:LEU:C	2.48	0.51
56:BX:14:SER:H	56:BX:17:ALA:HB3	1.76	0.51
24:AY:170:ARG:C	24:AY:171:GLU:HG2	2.30	0.51
46:DN:2:LYS:NZ	54:DV:12:TYR:HA	2.25	0.51
54:DV:49:THR:O	54:DV:50:PRO:C	2.47	0.51
31:B6:12:GLU:HB3	31:B6:23:THR:HG22	1.93	0.51
57:DY:95:LYS:HE2	57:DY:101:LYS:H	1.76	0.51
35:DA:363(A):A:H2'	35:DA:363(B):G:C8	2.45	0.51
40:DF:192:LEU:HD23	40:DF:193:VAL:N	2.25	0.51
57:BY:99:CYS:O	57:BY:100:ALA:O	2.27	0.51
57:BY:86:ARG:H	57:BY:88:LYS:NZ	2.08	0.51
24:CY:201:ILE:H	24:CY:201:ILE:CD1	2.15	0.51
24:CY:238:THR:O	24:CY:240:GLU:N	2.44	0.51
37:DC:135:ARG:HD2	37:DC:135:ARG:N	2.25	0.51
35:DA:2470:G:P	49:DQ:56:ARG:NH1	2.83	0.51
35:BA:1192:G:H2'	35:BA:1193:G:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D3:31:LEU:HD22	28:D3:32:GLN:N	2.25	0.51
44:DK:120:LEU:HA	44:DK:123:ALA:HB3	1.93	0.51
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.26	0.51
39:DE:63:LEU:O	39:DE:64:LYS:C	2.49	0.51
38:BD:238:GLY:O	38:BD:239:ARG:O	2.29	0.51
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.79	0.51
46:BN:58:ASP:O	46:BN:60:ILE:HG13	2.11	0.51
41:DG:123:ASN:C	41:DG:125:PHE:N	2.64	0.51
41:DG:107:LEU:HD22	41:DG:177:GLY:O	2.10	0.51
56:BX:35:THR:HG22	56:BX:36:LYS:N	2.26	0.51
35:DA:1019:U:H3	35:DA:1142(A):A:N6	2.09	0.51
35:BA:190:A:H2'	35:BA:191:A:C8	2.46	0.51
2:AB:223:ILE:HG23	2:AB:226:ARG:HD2	1.93	0.51
50:BR:45:ARG:CG	50:BR:46:GLY:H	2.16	0.51
1:CA:1392:G:N2	1:CA:1502:A:C8	2.78	0.51
12:AL:41:ARG:CG	12:AL:42:THR:N	2.71	0.51
37:DC:149:ASN:N	37:DC:149:ASN:HD22	2.08	0.51
54:DV:21:ARG:HB3	54:DV:91:TYR:HD1	1.71	0.51
53:DU:33:ARG:C	53:DU:35:ALA:N	2.59	0.51
35:BA:917:A:H2'	35:BA:918:A:O4'	2.11	0.51
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.30	0.51
46:DN:65:LYS:NZ	46:DN:65:LYS:HA	2.25	0.51
35:BA:1052:C:N3	35:BA:1107:G:N2	2.58	0.51
35:BA:65:C:H5'	56:BX:71:GLY:HA3	1.93	0.51
7:CG:81:GLY:O	7:CG:83:ALA:N	2.40	0.51
35:BA:909:A:O2'	35:BA:910:A:H5'	2.10	0.51
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.11	0.51
1:CA:444:C:H42	1:CA:490:G:H1	1.58	0.51
35:DA:2617:C:C2'	35:DA:2618:G:H5'	2.41	0.51
24:AY:510:VAL:HG12	24:AY:511:LYS:N	2.25	0.51
35:DA:1780:A:H5'	35:DA:1781:C:OP2	2.11	0.51
9:AI:40:LEU:C	9:AI:42:ARG:H	2.14	0.51
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.75	0.51
20:CT:86:ARG:HG3	20:CT:86:ARG:HH11	1.76	0.51
35:DA:2348:U:H2'	35:DA:2349:G:H5'	1.92	0.51
35:BA:1063:G:O2'	35:BA:1064:C:H5'	2.11	0.51
33:B8:29:LYS:HD2	33:B8:44:LYS:CB	2.41	0.51
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.46	0.51
24:CY:355:LEU:HD22	24:CY:355:LEU:N	2.25	0.51
38:DD:166:GLN:NE2	38:DD:166:GLN:HA	2.26	0.51
1:CA:445:G:H2'	1:CA:446:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:65:ARG:NH1	15:CO:65:ARG:HG2	2.25	0.51
35:DA:1692:U:H2'	35:DA:1694:C:C4	2.46	0.51
1:CA:707:C:H4'	11:CK:20:TYR:CD1	2.46	0.51
7:CG:69:VAL:HG21	7:CG:104:LEU:CD2	2.40	0.51
35:DA:503:A:H4'	35:DA:504:U:H5'	1.93	0.51
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.11	0.51
35:DA:2367:G:H2'	35:DA:2368:C:H6	1.76	0.51
19:CS:27:GLU:O	19:CS:28:LYS:O	2.29	0.51
1:AA:229:U:O2'	1:AA:230:G:H5'	2.11	0.51
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.76	0.51
19:CS:16:LEU:N	19:CS:16:LEU:HD12	2.26	0.51
35:DA:1218:C:H2'	35:DA:1219:G:H8	1.76	0.51
41:BG:46:ALA:HA	41:BG:51:ARG:CB	2.41	0.50
35:BA:1378:A:HO2'	35:BA:1379:A:H5''	1.69	0.50
10:CJ:4:ILE:H	10:CJ:4:ILE:HD12	1.77	0.50
24:AY:177:ILE:HG21	24:AY:260:LEU:HD21	1.93	0.50
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG2	2.33	0.50
35:DA:1708:C:O2'	35:DA:1709:U:H5'	2.11	0.50
33:D8:10:ALA:O	33:D8:14:VAL:HG12	2.10	0.50
48:DP:55:ARG:CG	48:DP:56:SER:N	2.64	0.50
48:DP:67:MET:O	48:DP:68:GLN:HG3	2.10	0.50
41:DG:116:ASP:O	41:DG:117:PHE:CB	2.56	0.50
41:BG:133:LEU:HD11	41:BG:157:ILE:CD1	2.29	0.50
24:CY:36:THR:OG1	24:CY:37:GLY:N	2.44	0.50
24:CY:77:HIS:NE2	24:CY:277:VAL:HG21	2.27	0.50
31:D6:15:GLU:OE1	31:D6:41:PRO:CG	2.59	0.50
35:DA:2346:A:H1'	35:DA:2383:G:N9	2.25	0.50
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.10	0.50
53:BU:8:VAL:CG2	53:BU:12:ARG:HE	2.24	0.50
58:DZ:109:ALA:HB3	58:DZ:145:GLU:CA	2.42	0.50
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.10	0.50
2:CB:121:LEU:HD21	2:CB:126:GLU:OE2	2.11	0.50
27:D2:67:LYS:O	27:D2:70:GLN:HG3	2.11	0.50
48:DP:128:HIS:ND1	48:DP:148:LEU:HD13	2.25	0.50
2:CB:19:HIS:HD2	2:CB:189:ASP:OD2	1.94	0.50
41:DG:131:TYR:HB3	41:DG:159:VAL:CG1	2.41	0.50
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.92	0.50
35:DA:2787:C:C2	39:DE:61:ARG:HD3	2.46	0.50
35:BA:654(M):C:O2'	35:BA:654(N):G:C8	2.58	0.50
33:D8:39:LYS:HG3	33:D8:43:GLN:NE2	2.26	0.50
42:DH:33:LEU:HD12	42:DH:75:ALA:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:99:LEU:HB2	52:DT:101:PHE:HE1	1.76	0.50
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.11	0.50
37:DC:29:LEU:O	37:DC:31:LYS:N	2.44	0.50
1:CA:893:C:H2'	1:CA:894:G:H8	1.76	0.50
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.41	0.50
39:BE:4:ILE:HG13	39:BE:5:LEU:H	1.75	0.50
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.58	0.50
4:AD:155:LEU:O	4:AD:156:GLU:C	2.49	0.50
1:AA:1298:C:C2'	1:AA:1298:C:O2	2.60	0.50
35:DA:558:G:H5'	46:DN:112:LEU:HD22	1.91	0.50
50:BR:12:ARG:CG	50:BR:12:ARG:HH11	2.23	0.50
35:BA:750:A:C2	35:BA:753:C:C6	2.99	0.50
18:CR:69:THR:O	18:CR:72:ARG:N	2.43	0.50
54:BV:79:VAL:O	54:BV:80:GLN:HB2	2.09	0.50
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.59	0.50
56:BX:44:GLU:HB2	56:BX:49:VAL:O	2.11	0.50
49:BQ:35:VAL:HG22	49:BQ:36:ALA:N	2.26	0.50
27:B2:15:LYS:O	27:B2:15:LYS:HG3	2.10	0.50
27:B2:8:LYS:O	27:B2:12:GLU:N	2.29	0.50
16:CP:19:ILE:N	16:CP:37:GLY:O	2.41	0.50
35:DA:657:U:H2'	35:DA:658:C:H6	1.73	0.50
35:BA:1917:U:H2'	35:BA:1918:A:H5'	1.93	0.50
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.26	0.50
42:DH:40:GLU:HG3	42:DH:64:LEU:CD1	2.41	0.50
4:CD:120:LEU:HB3	4:CD:126:ILE:HD11	1.93	0.50
49:BQ:75:THR:CG2	49:BQ:76:LYS:N	2.74	0.50
49:DQ:60:ARG:HB2	49:DQ:60:ARG:CZ	2.41	0.50
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.46	0.50
1:CA:22:G:H4'	1:CA:885:G:C8	2.46	0.50
57:BY:43:ASN:HA	57:BY:64:GLU:HA	1.93	0.50
35:DA:2647:U:H2'	35:DA:2648:C:H6	1.74	0.50
24:CY:211:GLU:HB2	24:CY:215:LYS:HZ1	1.76	0.50
24:AY:635:GLU:OE1	24:AY:644:ARG:HD2	2.11	0.50
54:DV:66:ARG:NH1	54:DV:88:ARG:HE	2.09	0.50
58:BZ:129:SER:C	58:BZ:131:ARG:H	2.14	0.50
35:BA:1216:G:N2	35:BA:1234:U:H1'	2.26	0.50
37:DC:60:ARG:HG2	37:DC:61:GLY:H	1.75	0.50
26:D1:69:LYS:NZ	35:DA:372:G:OP1	2.42	0.50
46:BN:78:TYR:N	46:BN:78:TYR:CD1	2.79	0.50
5:AE:139:LEU:C	5:AE:141:GLN:H	2.14	0.50
5:CE:59:GLY:O	5:CE:62:ALA:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:49:GLY:CA	46:BN:119:ARG:HH12	2.23	0.50
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.93	0.50
53:BU:39:LEU:O	53:BU:40:PHE:C	2.48	0.50
24:AY:236:GLU:HG3	24:AY:236:GLU:O	2.10	0.50
15:CO:31:LEU:CD2	15:CO:31:LEU:H	2.23	0.50
26:B1:92:LYS:HE2	35:BA:153:C:OP1	2.11	0.50
10:AJ:4:ILE:CD1	10:AJ:74:ILE:HG13	2.40	0.50
35:BA:2577:A:H5'	35:BA:2578:G:C5'	2.41	0.50
35:BA:768:G:H2'	35:BA:769:G:C8	2.47	0.50
24:CY:606:MET:HE3	24:CY:671:MET:CG	2.41	0.50
1:AA:542:G:O2'	1:AA:543:C:H5'	2.10	0.50
24:AY:181:LEU:HB2	24:AY:216:LEU:HD11	1.93	0.50
35:BA:1204:A:H61	35:BA:1240:U:H2'	1.76	0.50
53:DU:83:LEU:HD12	53:DU:113:ALA:HB2	1.92	0.50
53:DU:92:ARG:HD3	53:DU:94:ASN:CB	2.41	0.50
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.41	0.50
33:B8:48:PHE:O	33:B8:49:VAL:CG1	2.58	0.50
58:DZ:64:GLY:O	58:DZ:65:GLN:C	2.49	0.50
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.46	0.50
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.75	0.50
30:B5:2:ALA:O	30:B5:3:LYS:HB3	2.11	0.50
31:B6:17:LYS:O	31:B6:20:ASN:ND2	2.44	0.50
51:BS:85:VAL:HG23	51:BS:106:ARG:CG	2.41	0.50
51:BS:25:ARG:HG3	51:BS:26:LEU:H	1.77	0.50
5:CE:101:ILE:CD1	5:CE:119:LEU:HA	2.29	0.50
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.10	0.50
2:CB:91:PRO:HG2	2:CB:155:LEU:HD23	1.92	0.50
35:BA:651:G:C2'	35:BA:652:C:H5'	2.41	0.50
35:BA:2298:A:N6	35:BA:2318:G:H8	2.09	0.50
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.30	0.50
26:B1:76:ARG:HH22	26:B1:95:LEU:CD1	2.24	0.50
35:DA:2723:C:H5''	50:DR:2:ARG:NH1	2.15	0.50
54:BV:19:LYS:HB3	54:BV:94:LEU:O	2.11	0.50
27:D2:3:LEU:HD12	35:DA:98:G:C5'	2.41	0.50
26:D1:90:ILE:HG22	26:D1:94:LEU:HD11	1.92	0.50
3:CC:173:VAL:HG12	3:CC:175:LEU:CD1	2.41	0.50
35:DA:1542:A:H3'	35:DA:1542:A:H8	1.75	0.50
24:CY:191:ASP:C	24:CY:193:GLY:N	2.65	0.50
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.11	0.50
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.46	0.50
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.11	0.50
24:AY:64:THR:C	24:AY:66:THR:H	2.14	0.50
1:CA:190:U:C2	20:CT:105:SER:HB2	2.46	0.50
37:BC:101:ILE:N	37:BC:101:ILE:HD12	2.26	0.50
42:DH:105:LEU:N	42:DH:105:LEU:HD23	2.27	0.50
4:CD:58:LEU:O	4:CD:58:LEU:HD23	2.11	0.50
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.40	0.50
24:AY:407:PRO:HB3	24:AY:452:SER:OG	2.11	0.50
25:B0:74:ARG:HG2	36:BB:13:A:OP2	2.12	0.50
47:BO:105:GLU:O	47:BO:109:LYS:CG	2.57	0.50
44:BK:136:VAL:HG13	44:BK:136:VAL:O	2.11	0.50
44:BK:78:ILE:HD13	44:BK:134:MET:SD	2.51	0.50
49:DQ:79:LEU:HD23	49:DQ:80:GLU:N	2.24	0.50
1:AA:999:C:H2'	1:AA:1000:U:C4	2.45	0.50
35:BA:482:A:H4'	57:BY:47:LYS:HG2	1.93	0.50
36:BB:81:G:N3	36:BB:81:G:H5'	2.26	0.50
44:DK:136:VAL:O	44:DK:136:VAL:HG13	2.11	0.50
8:CH:41:ARG:NH2	8:CH:123:GLU:CD	2.64	0.50
35:DA:567:A:N1	35:DA:571:A:H8	2.08	0.50
50:DR:7:GLY:C	50:DR:8:ARG:HE	2.14	0.50
35:BA:2688:U:H3'	35:BA:2688:U:O2	2.11	0.50
1:AA:1161:C:O2'	1:AA:1162:C:H5'	2.11	0.50
1:AA:1112:C:O2'	3:AC:179:ARG:HG2	2.11	0.50
35:DA:658:C:H2'	35:DA:659:C:C6	2.47	0.50
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.44	0.50
1:CA:821:G:O2'	1:CA:822:C:H5'	2.11	0.50
24:CY:369:LEU:N	24:CY:369:LEU:HD12	2.25	0.50
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.44	0.50
3:CC:10:PHE:CE1	3:CC:178:LEU:HD11	2.46	0.50
1:CA:418:C:H2'	1:CA:419:C:C6	2.46	0.50
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.11	0.50
35:DA:1040:C:H2'	35:DA:1041:C:C6	2.46	0.50
1:AA:260:G:H2'	1:AA:261:U:H6	1.75	0.50
35:BA:2870:C:H5''	50:BR:65:LEU:HD21	1.92	0.50
35:DA:2860:A:H2'	35:DA:2861:G:H5'	1.93	0.50
35:DA:705:A:C2	35:DA:727:A:H1'	2.46	0.50
7:CG:78:ARG:HE	7:CG:156:TRP:HB3	1.75	0.50
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.91	0.50
35:DA:1891:G:H2'	35:DA:1892:C:O4'	2.11	0.50
35:BA:2121:G:O2'	37:BC:168:LYS:HG2	2.10	0.50
35:BA:2337:G:H2'	35:BA:2338:G:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:152:LEU:CD2	41:BG:152:LEU:H	2.23	0.50
42:DH:172:LYS:HG3	42:DH:175:LYS:CE	2.42	0.50
37:BC:92:ALA:HB3	37:BC:95:VAL:HG22	1.92	0.50
40:BF:192:LEU:CD2	40:BF:194:MET:HG3	2.30	0.50
24:AY:252:ASP:HB2	24:AY:254:LYS:CG	2.40	0.50
53:BU:79:PHE:O	53:BU:83:LEU:HD13	2.11	0.50
24:AY:415:PRO:CB	24:AY:421:GLN:HA	2.42	0.50
1:AA:980:C:H2'	1:AA:981:U:H5'	1.93	0.50
48:BP:58:THR:O	48:BP:58:THR:HG22	2.11	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.74	0.50
31:D6:9:LEU:HD22	31:D6:9:LEU:C	2.32	0.50
35:DA:665:C:H2'	35:DA:666:G:H8	1.76	0.50
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.47	0.50
35:DA:2053:G:H1	35:DA:2616:C:H42	1.59	0.50
31:B6:47:THR:CG2	31:B6:48:VAL:H	2.19	0.50
24:AY:35:TYR:CE1	24:AY:269:VAL:HB	2.45	0.50
35:BA:1814:G:H4'	38:BD:51:VAL:HG21	1.92	0.50
35:DA:1858:G:HO2'	35:DA:1859:A:H8	1.59	0.50
35:DA:2306:C:C5	35:DA:2307:G:O2'	2.61	0.50
35:DA:624:C:H41	48:DP:107:LYS:HZ2	1.59	0.50
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.93	0.50
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.74	0.50
39:BE:61:ARG:HG2	39:BE:62:PRO:CD	2.41	0.50
19:AS:19:VAL:HG12	19:AS:20:LEU:HG	1.94	0.50
39:BE:32:PRO:N	39:BE:90:THR:HG23	2.27	0.50
51:DS:93:LYS:O	51:DS:94:TYR:C	2.49	0.50
35:BA:2712:U:C2'	35:BA:2712(A):A:O5'	2.60	0.50
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.46	0.50
29:D4:14:ILE:HG22	29:D4:15:ILE:N	2.25	0.50
35:BA:2867:G:N7	52:BT:23:ARG:NH1	2.58	0.50
24:AY:71:THR:HG21	24:AY:357:ARG:CD	2.41	0.50
2:CB:172:ILE:CD1	2:CB:172:ILE:H	2.04	0.50
36:DB:87:G:C2'	36:DB:88:C:H5''	2.41	0.50
42:BH:54:ARG:HD2	42:BH:54:ARG:O	2.11	0.50
52:DT:12:SER:O	52:DT:13:ARG:NH2	2.44	0.50
24:AY:485:GLU:OE1	24:AY:555:LEU:HB2	2.12	0.50
15:CO:17:ARG:NH1	15:CO:77:ARG:CZ	2.74	0.50
24:CY:526:VAL:HG11	24:CY:566:THR:HG23	1.94	0.50
27:D2:48:HIS:CG	27:D2:49:LYS:H	2.29	0.50
35:BA:1610:A:H4'	35:BA:1611:C:OP2	2.11	0.50
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:79:LEU:O	9:AI:80:GLY:C	2.49	0.50
35:BA:1542:A:C8	35:BA:1542:A:H3'	2.46	0.50
1:CA:664:G:O2'	1:CA:666:G:OP2	2.28	0.50
12:CL:27:LEU:C	12:CL:29:GLY:N	2.64	0.50
10:CJ:63:PHE:HA	14:CN:59:ALA:CB	2.40	0.50
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.24	0.50
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.75	0.50
1:CA:193:C:H2'	1:CA:194:C:C6	2.47	0.50
1:AA:190:U:C2	20:AT:105:SER:HB2	2.46	0.50
24:CY:82:ILE:HD12	24:CY:101:LEU:CD2	2.41	0.50
35:BA:2130:U:OP1	37:BC:6:LYS:HB2	2.11	0.50
35:BA:588:U:H1'	40:BF:90:PHE:CG	2.47	0.50
1:CA:1507:A:C2	1:CA:1508:G:C4	2.99	0.50
35:BA:958:U:H3'	35:BA:958:U:C6	2.46	0.50
12:CL:38:THR:HG23	12:CL:57:LYS:CB	2.42	0.50
2:AB:233:SER:OG	2:AB:234:PRO:HD2	2.11	0.50
35:DA:572:A:OP2	54:DV:78:LYS:NZ	2.38	0.50
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.10	0.50
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.84	0.50
1:CA:260:G:H2'	1:CA:261:U:C6	2.46	0.50
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.11	0.50
13:AM:56:LEU:HD13	13:AM:56:LEU:C	2.31	0.50
35:DA:1567:A:C5'	38:DD:58:HIS:CD2	2.94	0.50
48:DP:121:LYS:O	48:DP:123:LEU:HD23	2.11	0.50
47:BO:107:ARG:HA	47:BO:112:MET:CE	2.41	0.50
38:BD:62:TYR:CE1	38:BD:64:ILE:HA	2.45	0.50
35:DA:2816:C:O2	35:DA:2883:A:O2'	2.30	0.50
39:DE:101:ARG:NH1	39:DE:169:ASN:ND2	2.59	0.50
24:AY:634:MET:O	24:AY:634:MET:HG2	2.10	0.50
1:AA:445:G:H2'	1:AA:446:G:C8	2.46	0.50
49:BQ:135:ASP:O	49:BQ:138:ASP:OD2	2.30	0.50
58:BZ:45:ASP:OD2	58:BZ:49:ARG:HG2	2.11	0.50
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.50	0.50
35:DA:2678:C:O2'	35:DA:2679:A:H5'	2.11	0.50
51:BS:73:LEU:O	51:BS:73:LEU:HD23	2.12	0.50
4:CD:153:ARG:HG2	4:CD:153:ARG:NH1	2.26	0.50
35:BA:2192:G:C3'	35:BA:2193:G:H5''	2.42	0.50
24:AY:114:VAL:O	24:AY:116:PRO:HD3	2.11	0.50
30:D5:22:HIS:CE1	35:DA:2624:G:H1'	2.46	0.50
45:BL:14:UNK:HA	45:BM:13:UNK:O	26.78	0.50
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1680:U:O2'	35:BA:1681:G:H5'	2.12	0.50
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.92	0.50
47:DO:10:VAL:HG23	47:DO:10:VAL:O	2.11	0.50
24:CY:142:THR:CG2	24:CY:143:GLY:N	2.75	0.50
61:CY:702:FUA:O1	61:CY:702:FUA:C1	2.57	0.50
24:AY:214:GLU:O	24:AY:218:GLU:N	2.42	0.50
24:AY:427:ALA:O	24:AY:431:LEU:HB2	2.12	0.50
38:DD:35:LYS:CD	38:DD:36:PRO:N	2.63	0.50
35:BA:2392:A:H2	35:BA:2424:C:H42	1.60	0.50
38:BD:35:LYS:CG	38:BD:63:ARG:HA	2.34	0.50
1:AA:1002:G:N2	1:AA:1039:C:H2'	2.25	0.50
58:BZ:58:VAL:HA	58:BZ:67:LEU:O	2.12	0.50
41:DG:59:GLU:O	41:DG:62:LEU:HD13	2.11	0.50
35:BA:1058:G:H21	44:BK:126:MET:CE	2.24	0.50
24:CY:227:ILE:CD1	24:CY:242:LEU:HA	2.41	0.50
31:B6:42:TRP:NE1	35:BA:643:A:OP1	2.44	0.50
51:BS:93:LYS:O	51:BS:94:TYR:C	2.49	0.50
35:DA:154(A):C:H3'	35:DA:155:U:H5''	1.93	0.50
25:D0:27:GLU:HG3	25:D0:68:GLU:HA	1.93	0.50
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.40	0.50
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.41	0.50
24:AY:428:LEU:N	24:AY:428:LEU:HD23	2.25	0.50
35:BA:154(A):C:C5	35:BA:155:U:H1'	2.47	0.50
26:B1:80:LEU:HD13	26:B1:82:LEU:HD11	1.94	0.50
46:DN:48:MET:HE2	46:DN:48:MET:N	2.10	0.50
24:CY:399:LEU:CD1	24:CY:399:LEU:N	2.74	0.50
6:CF:38:GLU:HB2	6:CF:64:GLN:O	2.11	0.50
35:BA:624:C:N4	48:BP:107:LYS:NZ	2.60	0.50
40:DF:81:PRO:C	40:DF:83:PHE:H	2.15	0.50
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.10	0.50
52:DT:118:ARG:HA	52:DT:121:ILE:HD12	1.93	0.50
1:CA:1226:C:H5''	13:CM:103:THR:OG1	2.11	0.50
1:AA:691:G:H2'	1:AA:692:U:C6	2.46	0.50
26:D1:84:GLY:O	26:D1:85:LEU:C	2.49	0.50
25:D0:19:LYS:HD3	25:D0:41:ARG:NH2	2.26	0.50
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.37	0.50
24:CY:492:ASP:OD1	24:CY:513:LYS:HD2	2.12	0.50
24:CY:413:ILE:HG23	24:CY:413:ILE:O	2.10	0.50
25:B0:40:GLN:HE22	25:B0:43:THR:CA	2.22	0.50
40:DF:160:ASN:HD21	40:DF:162:LEU:HD13	1.75	0.50
55:BW:66:GLU:HA	55:BW:69:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.77	0.50
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.93	0.50
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.47	0.50
12:AL:80:HIS:O	12:AL:81:SER:CB	2.58	0.50
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.11	0.50
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.11	0.50
22:AW:53:G:H2'	22:AW:54:G:C8	2.47	0.50
35:BA:568:U:H2'	35:BA:570:G:OP2	2.11	0.50
24:CY:165:GLN:NE2	24:CY:177:ILE:HG21	2.25	0.50
1:CA:999:C:H2'	1:CA:1000:U:C4	2.47	0.50
35:DA:1367:A:C2'	35:DA:1368:G:H5'	2.40	0.50
35:BA:1567:A:H5'	38:BD:58:HIS:CD2	2.46	0.50
35:DA:825:C:H2'	35:DA:826:U:O4'	2.12	0.50
24:AY:293:THR:HA	24:AY:397:VAL:HG12	1.94	0.50
26:B1:64:ALA:HA	26:B1:67:ILE:CG1	2.41	0.50
1:CA:187:C:OP1	20:CT:82:SER:HB2	2.10	0.50
58:DZ:56:VAL:HA	58:DZ:70:LEU:CD2	2.41	0.50
35:DA:443:A:H3'	40:DF:45:ARG:NH2	2.26	0.50
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.12	0.50
41:DG:179:PRO:O	41:DG:180:PHE:CD2	2.65	0.50
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.11	0.50
54:BV:66:ARG:NH1	54:BV:88:ARG:HE	2.10	0.50
37:BC:104:ILE:HG23	37:BC:108:TRP:O	2.11	0.50
1:AA:708:C:H2'	1:AA:709:G:H8	1.77	0.50
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.50
7:AG:78:ARG:HG3	7:AG:78:ARG:HH11	1.76	0.50
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.46	0.50
1:CA:1525:G:O2'	1:CA:1526:G:H5'	2.12	0.50
8:CH:34:GLU:HB3	8:CH:118:VAL:HG21	1.92	0.50
35:BA:381:G:O2'	35:BA:382:G:H5'	2.12	0.50
42:BH:77:LYS:HA	42:BH:80:SER:OG	2.10	0.50
35:DA:1465:G:H2'	35:DA:1466:G:H8	1.75	0.50
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.11	0.50
5:CE:29:GLY:HA2	5:CE:46:GLY:O	2.11	0.50
11:AK:17:GLY:O	11:AK:80:VAL:HA	2.12	0.50
35:BA:2626:C:H2'	35:BA:2627:G:O4'	2.11	0.50
61:CY:702:FUA:C20	61:CY:702:FUA:H5	2.12	0.50
24:AY:20:HIS:N	24:AY:121:VAL:HG11	2.27	0.50
24:AY:255:ILE:CG1	24:AY:256:THR:N	2.74	0.50
1:CA:1129:C:C6	1:CA:1129:C:H5'	2.45	0.50
53:BU:79:PHE:CE2	53:BU:83:LEU:HD11	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:51:ALA:HA	33:B8:54:GLU:OE1	2.10	0.50
35:DA:302:C:H2'	35:DA:303:U:C6	2.47	0.50
35:BA:83:G:O2'	35:BA:84:A:C8	2.57	0.50
1:CA:1038:C:H2'	1:CA:1039:C:C6	2.47	0.50
3:CC:90:GLU:HA	3:CC:93:LYS:CB	2.41	0.50
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.93	0.50
31:D6:15:GLU:CD	31:D6:44:ARG:CZ	2.80	0.50
24:CY:590:ILE:HD13	24:CY:593:ALA:HB2	1.94	0.50
12:AL:70:ILE:CG2	12:AL:100:ILE:HD12	2.41	0.50
28:B3:31:LEU:HD22	28:B3:32:GLN:H	1.77	0.50
48:DP:25:SER:O	48:DP:30:THR:HG23	2.11	0.50
40:BF:81:PRO:O	40:BF:83:PHE:N	2.45	0.50
35:BA:637:A:OP2	48:BP:115:LEU:HB2	2.12	0.50
48:BP:102:ARG:HH21	48:BP:102:ARG:CB	2.25	0.50
20:AT:11:SER:HA	20:AT:13:LEU:CD1	2.42	0.50
35:BA:2228:G:H2'	35:BA:2229:C:H6	1.77	0.50
2:AB:97:TRP:CH2	2:AB:176:GLU:CD	2.85	0.50
35:DA:2886:G:H2'	35:DA:2887:U:H6	1.76	0.50
29:B4:51:ASP:OD2	29:B4:52:THR:HG23	2.11	0.50
35:DA:1600:C:O2'	35:DA:1601:G:H5'	2.12	0.50
39:BE:77:ILE:C	39:BE:78:LEU:HG	2.31	0.50
35:DA:1015:G:H2'	35:DA:1016:G:H8	1.74	0.50
30:B5:34:PRO:HG3	35:BA:2885:C:O2'	2.12	0.50
19:CS:15:LEU:O	19:CS:19:VAL:HB	2.12	0.50
36:DB:85:G:O2'	36:DB:86:G:H5'	2.11	0.50
35:DA:1610:A:H4'	35:DA:1611:C:OP2	2.11	0.50
52:DT:6:LEU:O	52:DT:9:LEU:N	2.45	0.50
38:DD:26:LYS:N	38:DD:26:LYS:HE2	2.26	0.50
44:BK:93:ARG:HB2	58:BZ:112:ARG:CZ	2.42	0.50
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.76	0.50
35:DA:1528:A:H2'	35:DA:1528:A:N3	2.26	0.50
9:AI:128:ARG:O	13:AM:125:ARG:HD2	2.11	0.50
35:DA:259:G:N2	35:DA:621:A:H8	2.10	0.50
24:CY:66:THR:O	24:CY:67:ALA:CB	2.60	0.50
10:AJ:96:ILE:N	10:AJ:96:ILE:HD13	2.21	0.50
24:AY:66:THR:O	24:AY:67:ALA:HB3	2.10	0.50
35:BA:298:G:H8	35:BA:298:G:O5'	1.94	0.50
15:CO:55:GLY:HA2	15:CO:58:MET:CE	2.40	0.50
35:BA:817:C:H2'	35:BA:818:G:O4'	2.12	0.50
35:DA:2020:A:H2'	35:DA:2021:C:H5''	1.92	0.50
35:DA:532:A:H2'	35:DA:532:A:N3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:559:A:OP2	5:CE:126:ARG:NH2	2.44	0.50
10:CJ:47:PHE:CE2	14:CN:37:PHE:CE2	2.99	0.50
4:AD:2:GLY:O	4:AD:4:TYR:N	2.45	0.50
57:BY:47:LYS:O	57:BY:48:ALA:O	2.30	0.50
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.46	0.50
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.11	0.50
43:DJ:13:UNK:C	43:DJ:15:UNK:N	2.73	0.50
20:AT:86:ARG:HH11	20:AT:86:ARG:HG3	1.77	0.50
1:CA:1293:G:O2'	1:CA:1294:G:H5'	2.12	0.50
1:AA:489:C:H2'	1:AA:490:G:C8	2.46	0.50
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.26	0.50
22:CW:52:C:H2'	22:CW:53:G:C4'	2.42	0.50
24:CY:400:GLU:HG2	24:CY:401:SER:N	2.26	0.50
20:CT:84:LEU:O	20:CT:86:ARG:N	2.44	0.50
55:DW:107:LEU:N	55:DW:107:LEU:HD22	2.26	0.50
35:DA:1035:U:O5'	42:DH:59:ARG:NH1	2.45	0.50
1:AA:39:G:O2'	1:AA:40:C:H5'	2.11	0.50
22:AV:29:G:C6	22:AV:30:G:N7	2.79	0.50
35:BA:705:A:C2	35:BA:727:A:H1'	2.47	0.50
39:DE:188:VAL:HG23	39:DE:189:PRO:HD2	1.93	0.50
35:DA:809:G:O2'	35:DA:810:U:H5'	2.12	0.50
22:AW:20:G:H4'	22:AW:21:U:OP1	2.10	0.50
1:AA:637:G:O2'	1:AA:638:G:H5'	2.12	0.50
1:AA:284:G:H2'	1:AA:285:G:H8	1.76	0.50
35:DA:1420:U:H2'	35:DA:1421:G:H5'	1.93	0.50
35:BA:1288:U:H4'	35:BA:1289:C:OP2	2.11	0.50
35:DA:342:G:O2'	35:DA:343:C:H5'	2.12	0.50
1:AA:867:G:O2'	1:AA:868:C:H5'	2.12	0.50
1:AA:78:G:H1	1:AA:91:C:H42	1.60	0.50
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.25	0.50
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.40	0.50
22:CW:39:A:H2'	22:CW:40:C:O4'	2.12	0.50
24:AY:121:VAL:CA	24:AY:124:GLN:NE2	2.75	0.50
24:AY:203:GLU:O	24:AY:204:GLU:O	2.28	0.50
24:AY:132:ARG:O	24:AY:256:THR:HG23	2.11	0.50
58:DZ:171:ILE:HG13	58:DZ:172:ALA:H	1.76	0.50
48:BP:7:ARG:HA	48:BP:7:ARG:NH1	2.26	0.50
38:DD:39:LYS:HZ1	38:DD:87:ASN:HB3	1.74	0.50
33:B8:31:HIS:HE1	35:BA:2392:A:OP2	1.94	0.50
35:DA:346:A:N3	35:DA:346:A:H2'	2.25	0.50
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2415:G:H2'	35:DA:2416:C:C6	2.47	0.50
41:DG:114:ILE:O	41:DG:114:ILE:HG22	2.12	0.50
58:BZ:54:HIS:CE1	58:BZ:123:ASP:OD2	2.63	0.50
1:CA:1303:C:N4	1:CA:1304:G:C6	2.80	0.50
51:BS:74:ALA:HB2	51:BS:101:LEU:CD2	2.41	0.50
49:DQ:110:THR:CG2	49:DQ:113:GLN:HG3	2.42	0.50
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.39	0.50
35:BA:1156:A:O2'	35:BA:1157:G:OP1	2.30	0.50
35:DA:945:A:C2	35:DA:2448:A:N1	2.80	0.50
1:CA:703:G:O2'	1:CA:704:A:OP2	2.29	0.50
46:BN:133:GLN:CG	46:BN:134:ARG:N	2.75	0.50
1:AA:80:G:H5''	1:AA:81:U:H5'	1.93	0.50
48:DP:132:LYS:O	48:DP:136:GLU:HG2	2.11	0.50
1:AA:1402:C:C5	1:AA:1403:C:C5	2.99	0.50
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.10	0.50
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.26	0.50
39:BE:69:LYS:HG2	39:BE:90:THR:OG1	2.11	0.50
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.11	0.50
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.76	0.50
5:CE:8:GLU:CA	5:CE:34:VAL:HG23	2.42	0.50
25:B0:14:ARG:NH1	35:BA:2279:G:O6	2.45	0.50
35:BA:2161:C:O2'	35:BA:2162:G:H5'	2.12	0.50
27:B2:50:ILE:O	27:B2:52:ASP:N	2.41	0.50
10:AJ:61:GLU:OE1	14:AN:49:HIS:CE1	2.61	0.50
39:BE:93:VAL:C	39:BE:95:ILE:N	2.63	0.50
35:BA:532:A:N3	35:BA:532:A:H2'	2.26	0.50
1:CA:1118:C:H42	1:CA:1155:G:H1	1.59	0.50
36:DB:81:G:H2'	36:DB:82:G:H5'	1.93	0.50
35:BA:756:C:C2'	35:BA:757:U:H5'	2.40	0.50
1:AA:177:C:C2	1:AA:178:C:C5	3.00	0.50
1:AA:177:C:H2'	1:AA:178:C:H6	1.77	0.50
47:BO:32:TYR:N	47:BO:32:TYR:CD1	2.80	0.50
35:DA:750:A:H3'	35:DA:751:A:H5''	1.94	0.50
29:B4:12:ALA:HB2	29:B4:29:PRO:HA	1.94	0.50
1:AA:1346:A:H1'	1:AA:1348:U:C5	2.47	0.50
37:BC:138:LEU:HD13	37:BC:138:LEU:C	2.32	0.50
24:CY:415:PRO:O	24:CY:416:LYS:C	2.50	0.50
16:CP:60:LEU:HD21	16:CP:66:PRO:HD3	1.92	0.50
35:DA:1719:G:H2'	35:DA:1720:U:H5'	1.94	0.50
38:BD:14:ARG:HG3	38:BD:15:PHE:N	2.26	0.50
1:AA:159:G:H2'	1:AA:160:A:H5''	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1567:A:H5'	38:DD:58:HIS:CD2	2.46	0.50
35:DA:1669:A:H4'	35:DA:2549:G:H4'	1.94	0.50
42:BH:68:THR:C	42:BH:70:THR:H	2.15	0.50
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.77	0.50
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.46	0.50
24:CY:439:ARG:O	24:CY:452:SER:CB	2.60	0.50
8:CH:86:ILE:HG13	8:CH:133:LEU:HD22	1.92	0.50
35:BA:1614:A:N1	55:BW:91:GLY:HA2	2.27	0.50
1:AA:423:G:C2'	1:AA:424:G:H5'	2.41	0.50
1:AA:1459:C:H2'	1:AA:1460:A:C8	2.47	0.50
6:AF:21:LEU:O	6:AF:25:ILE:HG12	2.11	0.50
54:BV:99:ILE:H	54:BV:99:ILE:HD13	1.77	0.50
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.11	0.50
58:DZ:154:ASP:N	58:DZ:154:ASP:OD2	2.44	0.50
1:AA:452:A:O2'	1:AA:453:A:H8	1.94	0.50
35:DA:600:G:H2'	35:DA:601:C:C6	2.47	0.50
50:BR:48:VAL:O	50:BR:49:ASP:C	2.49	0.50
56:DX:57:LEU:HD13	56:DX:57:LEU:N	2.27	0.50
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.10	0.50
22:AV:39:C:H2'	22:AV:40:C:H6	1.76	0.50
35:DA:1536:C:H2'	35:DA:1537:G:H4'	1.93	0.50
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.11	0.50
17:AQ:94:ASN:O	17:AQ:96:GLU:N	2.45	0.50
1:CA:306:G:O2'	1:CA:307:C:H5'	2.12	0.50
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.11	0.50
47:BO:20:MET:HE3	47:BO:44:LYS:HE3	1.93	0.50
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.47	0.50
56:BX:57:LEU:HD13	56:BX:57:LEU:N	2.26	0.50
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.10	0.50
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.94	0.50
1:CA:429:U:H4'	1:CA:430:A:O5'	2.11	0.50
35:DA:1043:C:H2'	35:DA:1044:G:C5'	2.19	0.50
24:AY:204:GLU:H	24:AY:204:GLU:CD	2.14	0.50
35:BA:2733:A:O2'	35:BA:2734:A:H5'	2.12	0.50
24:AY:415:PRO:HG3	24:AY:421:GLN:HG2	1.94	0.50
58:BZ:67:LEU:HD23	58:BZ:90:VAL:HG11	1.93	0.50
56:DX:10:ALA:HB1	56:DX:11:PRO:CD	2.41	0.50
1:AA:6:G:H2'	5:AE:119:LEU:CD1	2.42	0.50
46:DN:15:LEU:HD23	46:DN:53:VAL:HB	1.94	0.50
35:BA:1301:A:HO2'	35:BA:1302:A:P	2.34	0.50
27:D2:21:LEU:O	27:D2:25:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:582:G:C6	35:DA:1259:G:N1	2.80	0.50
53:DU:13:LYS:O	53:DU:16:LYS:HB2	2.12	0.50
48:DP:101:VAL:HB	48:DP:107:LYS:HA	1.94	0.50
35:DA:636:G:H2'	48:DP:115:LEU:HD12	1.93	0.50
2:CB:211:ILE:HG22	2:CB:215:LEU:HD23	1.93	0.50
26:D1:23:LYS:HE2	26:D1:28:GLY:CA	2.30	0.50
26:D1:26:ARG:HG3	26:D1:27:GLU:N	2.26	0.50
2:AB:91:PRO:HG2	2:AB:155:LEU:HD23	1.94	0.50
46:BN:23:LEU:HB3	46:BN:60:ILE:CG2	2.39	0.50
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.41	0.50
35:BA:803:U:H2'	35:BA:804:A:H5'	1.92	0.50
2:CB:223:ILE:HG23	2:CB:226:ARG:HD2	1.93	0.50
39:BE:14:ILE:HG13	39:BE:21:VAL:CG2	2.41	0.50
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.73	0.50
52:DT:56:GLY:O	52:DT:59:THR:HG23	2.11	0.50
49:BQ:17:LEU:O	49:BQ:18:LYS:HD2	2.12	0.50
22:CW:11:A:H61	22:CW:25:U:H3	1.59	0.50
1:CA:1277:C:H6	1:CA:1277:C:H3'	1.77	0.50
38:BD:26:LYS:O	38:BD:27:THR:CB	2.60	0.50
35:DA:1528:A:C2	35:DA:1542:A:H2	2.29	0.50
35:DA:1052:C:N3	35:DA:1107:G:N2	2.58	0.50
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.42	0.50
24:CY:122:TRP:O	24:CY:125:ALA:N	2.31	0.50
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.76	0.50
36:BB:13:A:O2'	36:BB:15:A:H5''	2.11	0.50
24:AY:679:VAL:HB	24:AY:683:VAL:HB	1.94	0.50
49:BQ:110:THR:HG22	49:BQ:113:GLN:OE1	2.11	0.50
10:AJ:47:PHE:CE2	14:AN:37:PHE:CE2	3.00	0.50
24:CY:177:ILE:C	24:CY:178:ILE:HD12	2.32	0.50
24:AY:655:TYR:CZ	24:AY:659:LEU:HD23	2.47	0.50
15:AO:43:LEU:HD12	15:AO:56:LEU:HD22	1.93	0.50
27:D2:59:ARG:HA	35:DA:76:C:O2'	2.11	0.50
35:DA:1344:G:H1	35:DA:1403:C:H42	1.60	0.50
54:BV:5:VAL:HG23	54:BV:37:VAL:HG23	1.93	0.50
1:CA:538:G:OP2	12:CL:115:LYS:HG3	2.11	0.50
37:BC:4:HIS:HB3	37:BC:8:TYR:HD2	1.77	0.50
12:AL:115:LYS:O	12:AL:117:ARG:N	2.45	0.50
35:BA:1829:A:N3	38:BD:15:PHE:CZ	2.80	0.50
14:CN:12:ARG:O	14:CN:14:PRO:CD	2.59	0.50
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.12	0.50
22:CW:53:G:O6	22:CW:63:C:N3	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:37:VAL:CG1	42:DH:38:SER:N	2.75	0.50
24:AY:388:THR:CG2	24:AY:399:LEU:HD13	2.42	0.50
35:BA:1064:C:H4'	44:BK:89:HIS:CD2	2.46	0.50
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.27	0.50
35:BA:1168:G:H2'	35:BA:1169:G:O4'	2.12	0.50
1:AA:404:U:H2'	1:AA:405:U:C6	2.47	0.50
1:AA:957:U:H2'	1:AA:959:A:OP2	2.12	0.50
1:AA:950:U:H2'	1:AA:951:G:C8	2.45	0.50
38:BD:200:ASP:O	38:BD:201:HIS:C	2.50	0.50
1:CA:1222:G:O2'	1:CA:1223:C:H5'	2.11	0.50
27:D2:29:LYS:NZ	56:DX:6:ASP:OD2	2.41	0.50
35:DA:737:C:H2'	35:DA:738:G:H5'	1.93	0.50
35:DA:2337:G:H2'	35:DA:2338:G:H8	1.77	0.50
1:AA:895:G:H5''	1:AA:896:C:OP2	2.11	0.50
1:AA:1430:C:H6	1:AA:1430:C:O5'	1.95	0.50
44:DK:95:LYS:HG2	44:DK:137:GLU:OE1	2.11	0.50
1:CA:622:A:C8	1:CA:623:C:C5	2.99	0.50
1:CA:1147:C:O2'	9:CI:16:ARG:HD2	2.11	0.50
49:BQ:41:TRP:HE1	49:BQ:96:VAL:HG22	1.76	0.50
3:CC:54:ARG:HH11	3:CC:54:ARG:HG2	1.76	0.50
40:BF:41:LEU:HD23	40:BF:44:ARG:HE	1.77	0.50
24:AY:481:VAL:HG23	24:AY:483:TYR:CE2	2.47	0.50
41:BG:98:ARG:H	41:BG:98:ARG:NH1	2.07	0.50
24:AY:177:ILE:HG22	24:AY:178:ILE:H	1.77	0.50
24:AY:181:LEU:HD12	24:AY:242:LEU:HD13	1.94	0.50
46:DN:2:LYS:O	46:DN:4:TYR:CZ	2.64	0.50
53:DU:47:TYR:CA	53:DU:50:ARG:NH2	2.73	0.50
46:BN:2:LYS:O	46:BN:4:TYR:CZ	2.65	0.50
53:BU:83:LEU:N	53:BU:83:LEU:CD1	2.72	0.50
31:B6:6:ARG:C	31:B6:8:LYS:H	2.15	0.50
58:DZ:35:ARG:HH11	58:DZ:35:ARG:CG	2.25	0.50
35:DA:274:G:N3	35:DA:274:G:C2'	2.74	0.50
31:D6:27:LYS:HB3	31:D6:32:ASN:HD22	1.75	0.50
35:DA:664:C:O2'	35:DA:665:C:H5'	2.10	0.50
41:DG:88:ILE:HG23	41:DG:89:GLY:N	2.27	0.50
22:AV:20:U:C3'	22:AV:21:A:C5'	2.90	0.50
40:BF:170:LEU:N	40:BF:170:LEU:HD22	2.27	0.50
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.11	0.50
5:AE:142:LEU:O	5:AE:143:ARG:NE	2.42	0.50
31:D6:47:THR:CG2	31:D6:48:VAL:H	2.19	0.50
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:3:LEU:HD22	27:B2:7:ARG:HH22	1.76	0.50
24:AY:74:TRP:CH2	24:AY:270:GLN:HG2	2.47	0.50
35:DA:811:U:H3'	35:DA:812:C:C5'	2.41	0.50
48:DP:112:LEU:N	48:DP:128:HIS:HD2	2.09	0.50
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.27	0.50
56:DX:35:THR:HG22	56:DX:36:LYS:N	2.27	0.50
35:BA:2892:A:H62	35:BA:2893:G:H21	1.59	0.50
19:AS:41:VAL:CG2	19:AS:44:MET:HB2	2.35	0.50
39:DE:69:LYS:HG2	39:DE:90:THR:OG1	2.12	0.50
35:BA:1142(A):A:C5	35:BA:1144:G:C5	3.00	0.50
50:DR:100:LEU:HD13	50:DR:100:LEU:N	2.26	0.50
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.12	0.50
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.37	0.50
39:BE:9:VAL:HG22	39:BE:10:GLY:N	2.26	0.50
42:BH:50:VAL:HG12	42:BH:51:ARG:N	2.26	0.50
30:D5:48:GLU:O	30:D5:49:CYS:HB3	2.12	0.50
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.10	0.50
50:DR:10:LEU:CD2	50:DR:17:ARG:HD3	2.42	0.50
42:DH:149:ARG:HA	42:DH:162:ILE:HG13	1.92	0.50
35:DA:71:A:H4'	35:DA:72:U:H5''	1.93	0.50
29:B4:14:ILE:HG22	29:B4:15:ILE:N	2.27	0.50
58:BZ:143:GLY:C	58:BZ:144:LEU:HD22	2.32	0.50
9:CI:93:ARG:HA	9:CI:96:LEU:HB2	1.94	0.50
9:CI:5:TYR:HD2	9:CI:17:VAL:O	1.94	0.50
38:DD:24:ILE:CG1	38:DD:25:THR:N	2.75	0.50
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.76	0.50
1:AA:141:A:H1'	1:AA:182:U:C2	2.47	0.50
1:CA:1122:U:C2'	1:CA:1123:A:H5'	2.42	0.50
35:DA:827:U:H2'	35:DA:2068:U:O2	2.12	0.50
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.42	0.50
36:BB:15:A:C3'	36:BB:16:G:H5'	2.42	0.50
24:AY:628:ARG:HH11	24:AY:628:ARG:HG2	1.77	0.50
35:BA:760:G:C2'	35:BA:761:A:H5'	2.41	0.50
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.11	0.50
54:BV:35:LEU:C	54:BV:37:VAL:N	2.64	0.50
3:CC:128:PHE:O	3:CC:130:VAL:N	2.45	0.50
13:CM:54:VAL:O	13:CM:56:LEU:N	2.45	0.50
18:AR:87:ARG:CB	18:AR:87:ARG:HH11	2.25	0.50
28:D3:54:VAL:HG12	28:D3:55:ARG:N	2.27	0.50
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.12	0.50
48:DP:89:ALA:HA	48:DP:121:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.94	0.50
35:BA:2348:U:C2'	35:BA:2349:G:C5'	2.88	0.50
35:DA:1437:C:H2'	35:DA:1438:U:C6	2.46	0.50
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.41	0.50
24:AY:264:LEU:HD23	24:AY:264:LEU:C	2.33	0.50
1:AA:174:C:H2'	1:AA:175:C:H6	1.75	0.50
1:AA:555:C:H2'	1:AA:556:C:C6	2.47	0.50
35:DA:852:G:H2'	35:DA:853:G:C8	2.46	0.50
35:BA:1623:G:H2'	35:BA:1624:G:H8	1.77	0.50
37:BC:60:ARG:HG2	37:BC:61:GLY:N	2.26	0.50
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.47	0.50
35:DA:2705:A:H2'	35:DA:2706:G:O4'	2.12	0.50
3:AC:28:GLN:O	3:AC:29:TYR:C	2.50	0.50
58:BZ:9:TYR:HB3	58:BZ:35:ARG:HH22	1.77	0.50
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.47	0.50
50:DR:26:LYS:CE	50:DR:71:GLN:H	2.25	0.50
40:DF:100:THR:O	40:DF:100:THR:HG22	2.12	0.50
1:AA:620:C:C2	4:AD:135:LEU:HG	2.47	0.50
44:BK:95:LYS:HG2	44:BK:137:GLU:OE1	2.11	0.50
1:CA:509:A:H5'	1:CA:510:A:P	2.50	0.50
1:CA:1490:C:H2'	1:CA:1491:G:C5'	2.41	0.50
40:BF:180:GLY:O	40:BF:182:ASN:N	2.45	0.50
24:AY:115:GLU:HG3	24:AY:115:GLU:O	2.12	0.50
53:DU:112:ARG:CG	53:DU:112:ARG:HH11	2.25	0.50
54:BV:46:VAL:HG13	54:BV:47:VAL:N	2.27	0.50
51:DS:14:VAL:O	51:DS:15:ARG:C	2.47	0.50
29:D4:25:TYR:O	41:DG:105:LYS:NZ	2.45	0.50
47:BO:64:ARG:NH1	47:BO:83:ALA:HB2	2.27	0.50
24:CY:137:ASN:ND2	24:CY:263:ALA:H	2.10	0.50
5:CE:72:GLN:O	5:CE:73:ASN:HB2	2.11	0.50
49:DQ:62:GLY:HA2	58:DZ:116:VAL:CG2	2.41	0.50
35:DA:999:U:H5''	35:DA:1154:G:O6	2.12	0.50
3:AC:94:LEU:O	3:AC:94:LEU:HD12	2.11	0.50
35:DA:2453:A:H2'	35:DA:2454:G:C8	2.46	0.50
48:BP:101:VAL:HB	48:BP:107:LYS:HA	1.93	0.50
35:BA:2307:G:H21	35:BA:2308:G:C5'	2.25	0.50
44:BK:100:THR:OG1	44:BK:103:GLN:HG3	2.12	0.50
39:DE:32:PRO:N	39:DE:90:THR:HG23	2.27	0.50
39:DE:50:GLY:CA	39:DE:78:LEU:HB3	2.40	0.50
26:B1:76:ARG:CZ	26:B1:95:LEU:HD22	2.41	0.50
35:DA:1142(A):A:C5	35:DA:1144:G:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1145:C:H2'	35:DA:1146:C:H6	1.77	0.50
20:CT:26:ASN:N	20:CT:26:ASN:ND2	2.59	0.50
2:AB:189:ASP:C	2:AB:191:ASP:H	2.15	0.50
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.24	0.50
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	2.16	0.50
5:CE:12:LEU:HD13	5:CE:12:LEU:O	2.12	0.50
44:BK:13:PRO:HA	44:BK:52:ILE:HA	1.94	0.50
12:CL:79:GLU:HB2	24:CY:442:THR:CG2	2.35	0.50
41:DG:77:ILE:CG2	41:DG:80:PHE:N	2.74	0.50
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.32	0.50
18:AR:53:ARG:C	18:AR:55:ARG:N	2.63	0.50
35:BA:2019:A:O4'	53:BU:34:LYS:HD2	2.12	0.50
24:CY:441:SER:O	24:CY:449:THR:HG23	2.12	0.50
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.11	0.50
35:BA:259:G:N2	35:BA:621:A:H8	2.09	0.50
58:DZ:142:SER:N	58:DZ:144:LEU:HD23	2.26	0.50
24:CY:65:ILE:H	24:CY:65:ILE:HD13	1.77	0.50
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.94	0.50
22:CV:35:A:HO2'	22:CV:36:U:H5'	1.75	0.50
35:BA:1052:C:O2'	35:BA:1053:C:O5'	2.30	0.50
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.46	0.50
35:BA:1186:G:C2'	35:BA:1187:G:H5'	2.42	0.50
24:CY:119:GLU:O	24:CY:121:VAL:N	2.43	0.50
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.47	0.50
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG21	1.93	0.50
55:BW:14:PRO:HG2	55:BW:78:GLU:HB2	1.94	0.50
50:BR:7:GLY:HA3	50:BR:8:ARG:NH2	2.27	0.50
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.77	0.50
35:DA:2521:C:N4	35:DA:2544:G:H1	2.07	0.50
1:CA:1125:U:H2'	1:CA:1126:U:H2'	1.94	0.50
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.59	0.50
39:DE:81:ILE:CG2	39:DE:81:ILE:O	2.59	0.50
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.27	0.50
38:DD:176:ARG:CG	38:DD:176:ARG:HH11	2.24	0.50
39:DE:9:VAL:HG22	39:DE:10:GLY:N	2.25	0.50
1:AA:375:U:C2	1:AA:376:G:C8	2.99	0.50
14:CN:15:LYS:O	14:CN:16:PHE:C	2.50	0.50
1:AA:489:C:H2'	1:AA:490:G:H8	1.76	0.50
35:BA:483:A:N3	35:BA:483:A:H2'	2.26	0.50
37:DC:4:HIS:HB3	37:DC:8:TYR:HD2	1.77	0.50
30:D5:16:ARG:HD2	30:D5:20:ARG:HH12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:70:LEU:HG	58:DZ:91:LEU:CD1	2.42	0.50
40:BF:42:ALA:O	40:BF:45:ARG:HG3	2.12	0.50
35:DA:1491:G:O2'	38:DD:101:GLU:HB2	2.12	0.50
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.60	0.50
1:AA:505:G:H5'	1:AA:534:U:H2'	1.94	0.50
35:DA:1623:G:H2'	35:DA:1624:G:H8	1.77	0.50
35:DA:1972:A:H2'	35:DA:1973:G:C8	2.46	0.50
38:BD:78:LYS:HG2	38:BD:79:VAL:N	2.27	0.50
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.94	0.50
22:AW:20:G:C5	35:BA:2169:A:H2	2.29	0.50
58:DZ:152:ALA:HB3	58:DZ:154:ASP:OD2	2.12	0.50
35:BA:1071:G:N2	35:BA:1090:U:C5	2.80	0.50
1:AA:940:C:O2'	1:AA:941:G:H5'	2.12	0.50
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	2.12	0.50
35:DA:74:A:O2'	35:DA:75:G:OP2	2.28	0.50
1:CA:238:G:C6	1:CA:239:U:C4	3.00	0.50
42:DH:173:PRO:C	42:DH:175:LYS:N	2.65	0.49
24:CY:678:GLU:CG	24:CY:679:VAL:N	2.74	0.49
1:AA:429:U:H4'	1:AA:430:A:O5'	2.11	0.49
24:AY:223:PHE:CE2	24:AY:249:GLY:HA3	2.47	0.49
53:BU:92:ARG:CD	53:BU:94:ASN:HB3	2.41	0.49
31:B6:28:ARG:O	31:B6:32:ASN:HB2	2.11	0.49
35:BA:302:C:H2'	35:BA:303:U:H6	1.77	0.49
40:DF:192:LEU:CD2	40:DF:194:MET:HG3	2.26	0.49
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.12	0.49
40:BF:168:ARG:C	40:BF:170:LEU:H	2.16	0.49
35:DA:1264:G:O3'	35:DA:2615:U:H5'	2.12	0.49
31:B6:43:CYS:O	31:B6:44:ARG:NE	2.45	0.49
48:DP:16:ARG:CZ	48:DP:18:ARG:HB2	2.42	0.49
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.11	0.49
39:DE:69:LYS:O	39:DE:70:ALA:C	2.49	0.49
39:BE:36:ARG:NH2	39:BE:88:GLY:CA	2.74	0.49
24:AY:525:PHE:N	24:AY:525:PHE:CD1	2.80	0.49
44:DK:13:PRO:HA	44:DK:52:ILE:HA	1.94	0.49
35:BA:802:A:H2'	35:BA:803:U:C6	2.47	0.49
13:AM:78:ILE:CA	13:AM:81:LEU:HD23	2.40	0.49
24:AY:337:SER:HA	24:AY:355:LEU:CD2	2.42	0.49
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.47	0.49
36:DB:87:G:H2'	36:DB:88:C:H5''	1.94	0.49
1:AA:737:A:H2'	1:AA:738:C:H6	1.74	0.49
37:DC:84:ILE:HG12	37:DC:96:GLY:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:12:LEU:HD13	5:AE:12:LEU:O	2.12	0.49
42:DH:46:GLU:HG3	42:DH:51:ARG:H	1.77	0.49
35:BA:2502:G:H5''	35:BA:2503:A:C5'	2.37	0.49
35:BA:1668:A:H61	35:BA:1676:A:H61	1.59	0.49
29:B4:19:GLY:O	29:B4:20:ASN:C	2.51	0.49
12:AL:92:ASP:O	12:AL:94:PRO:HD3	2.12	0.49
27:B2:2:LYS:HB3	35:BA:97:C:H5''	1.94	0.49
27:B2:47:ASN:HD22	35:BA:94(A):G:H21	1.59	0.49
35:BA:1336:A:OP2	56:BX:64:LYS:HE3	2.11	0.49
35:DA:1542:A:C8	35:DA:1542:A:H3'	2.47	0.49
50:BR:4:LEU:C	50:BR:6:SER:N	2.64	0.49
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.12	0.49
55:DW:59:VAL:HG21	55:DW:66:GLU:HB2	1.93	0.49
24:AY:92:ILE:CG2	24:AY:93:GLU:N	2.74	0.49
37:BC:135:ARG:HD2	37:BC:135:ARG:N	2.27	0.49
35:BA:1558:A:O2'	35:BA:1559:G:OP2	2.29	0.49
22:CV:19:G:H3'	22:CV:20:U:O2	2.12	0.49
3:AC:5:ILE:CD1	3:AC:5:ILE:H	2.25	0.49
49:BQ:67:ARG:HD2	49:BQ:105:GLU:OE1	2.12	0.49
1:AA:193:C:H2'	1:AA:194:C:C6	2.47	0.49
42:DH:103:LEU:HB2	42:DH:123:PHE:HD2	1.77	0.49
58:DZ:102:LEU:HD11	58:DZ:124:ILE:CG2	2.41	0.49
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.89	0.49
53:BU:26:GLY:C	53:BU:28:ARG:H	2.16	0.49
35:DA:2543:G:H5'	35:DA:2543:G:H8	1.77	0.49
48:BP:108:LYS:C	48:BP:110:TYR:N	2.64	0.49
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.93	0.49
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.41	0.49
1:CA:66:G:C4'	1:CA:173:U:C5	2.95	0.49
37:DC:79:ALA:O	37:DC:120:VAL:HG11	2.12	0.49
36:DB:20:C:C2'	36:DB:21:G:H5''	2.42	0.49
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.12	0.49
1:CA:318:G:H2'	1:CA:319:G:H8	1.76	0.49
35:BA:1567:A:C5'	38:BD:58:HIS:CD2	2.95	0.49
9:AI:40:LEU:O	9:AI:42:ARG:N	2.41	0.49
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.94	0.49
48:DP:140:ALA:O	48:DP:141:ALA:HB3	2.12	0.49
43:BJ:26:UNK:CB	43:BJ:84:UNK:HA	2.41	0.49
32:D7:46:VAL:CG1	32:D7:47:ARG:N	2.73	0.49
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.93	0.49
38:BD:73:VAL:O	38:BD:75:ILE:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:342:G:O2'	35:BA:343:C:H5'	2.12	0.49
54:BV:2:PHE:O	54:BV:14:VAL:O	2.30	0.49
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.94	0.49
1:AA:765:G:H22	1:AA:812:C:HO2'	1.58	0.49
22:AV:28:C:H2'	22:AV:29:G:C8	2.47	0.49
35:DA:917:A:H2'	35:DA:918:A:O4'	2.12	0.49
22:CV:23:C:H2'	22:CV:24:U:C6	2.46	0.49
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.12	0.49
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.47	0.49
35:DA:667:U:H2'	35:DA:668:G:O4'	2.12	0.49
50:DR:48:VAL:O	50:DR:49:ASP:C	2.50	0.49
4:CD:170:VAL:O	4:CD:171:GLY:O	2.30	0.49
35:BA:2062:A:N3	35:BA:2062:A:O4'	2.45	0.49
24:AY:616:TYR:CE2	24:AY:664:GLN:HG3	2.47	0.49
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.92	0.49
35:BA:2051:A:H2'	35:BA:2578:G:O5'	2.12	0.49
37:BC:153:ILE:O	37:BC:157:ILE:HG13	2.12	0.49
24:CY:601:ILE:O	24:CY:678:GLU:HA	2.12	0.49
24:AY:121:VAL:CA	24:AY:124:GLN:HE22	2.25	0.49
38:DD:62:TYR:CE1	38:DD:64:ILE:HA	2.47	0.49
56:DX:14:SER:H	56:DX:17:ALA:HB3	1.76	0.49
58:DZ:43:GLU:O	58:DZ:47:VAL:N	2.45	0.49
58:DZ:63:ASP:C	58:DZ:65:GLN:H	2.16	0.49
38:BD:35:LYS:NZ	38:BD:35:LYS:HB3	2.27	0.49
57:BY:12:THR:HG23	57:BY:25:GLY:O	2.12	0.49
40:DF:204:ASN:C	40:DF:206:ILE:H	2.16	0.49
31:D6:10:LEU:HB3	33:D8:34:TRP:CD1	2.47	0.49
35:DA:2313:C:H5'	35:DA:2313:C:C6	2.39	0.49
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG2	2.26	0.49
57:BY:76:CYS:SG	57:BY:77:PRO:CD	2.86	0.49
35:BA:2056:G:N2	35:BA:2057:A:N9	2.60	0.49
55:DW:88:ARG:CB	55:DW:92:ARG:HB3	2.42	0.49
51:BS:35:ILE:CD1	51:BS:99:LYS:HE3	2.42	0.49
39:DE:116:VAL:HG22	39:DE:122:PHE:CG	2.47	0.49
44:DK:100:THR:OG1	44:DK:103:GLN:HG3	2.11	0.49
46:BN:132:ALA:O	46:BN:133:GLN:CB	2.60	0.49
2:CB:17:PHE:CD2	2:CB:18:GLY:N	2.80	0.49
1:AA:254:G:HO2'	1:AA:255:G:H5'	1.77	0.49
12:CL:70:ILE:HD12	12:CL:75:HIS:NE2	2.27	0.49
12:CL:75:HIS:CD2	12:CL:77:LEU:HD12	2.43	0.49
35:BA:948:G:H1	35:BA:969:U:H3	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2206:G:N3	35:DA:2206:G:H3'	2.27	0.49
39:BE:34:VAL:O	39:BE:34:VAL:HG22	2.11	0.49
41:DG:125:PHE:CZ	41:DG:170:ARG:HA	2.47	0.49
30:B5:55:ARG:NH1	50:BR:33:ARG:HD2	2.26	0.49
35:DA:2712:U:C2'	35:DA:2712(A):A:O5'	2.60	0.49
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.77	0.49
14:AN:41:ARG:HG2	14:AN:41:ARG:NH1	2.19	0.49
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.65	0.49
14:CN:41:ARG:NH1	14:CN:41:ARG:HG2	2.24	0.49
25:D0:70:GLN:NE2	25:D0:80:HIS:NE2	2.60	0.49
30:D5:36:CYS:O	30:D5:36:CYS:SG	2.69	0.49
36:BB:85:G:O2'	36:BB:86:G:H5'	2.11	0.49
36:BB:87:G:H2'	36:BB:88:C:H5''	1.94	0.49
52:DT:1:MET:H2	52:DT:7:ILE:HD11	1.76	0.49
42:DH:118:PRO:CG	42:DH:121:ILE:HD12	2.38	0.49
24:CY:528:ALA:O	24:CY:568:TYR:HA	2.12	0.49
1:CA:665:A:H2'	1:CA:725:G:N2	2.27	0.49
24:CY:329:ARG:HG2	24:CY:331:TYR:OH	2.12	0.49
4:AD:58:LEU:HD23	4:AD:58:LEU:O	2.12	0.49
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.11	0.49
32:D7:27:GLY:HA2	32:D7:30:VAL:HG23	1.94	0.49
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.77	0.49
4:CD:158:ILE:CG2	4:CD:162:LEU:HD12	2.43	0.49
8:CH:17:THR:CG2	8:CH:63:LEU:HD12	2.42	0.49
36:BB:20:C:C2'	36:BB:21:G:H5''	2.41	0.49
35:DA:528:A:C2	35:DA:2043:C:H5'	2.47	0.49
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.93	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:HD13	1.94	0.49
1:CA:159:G:H2'	1:CA:160:A:H5''	1.93	0.49
54:DV:5:VAL:HG23	54:DV:37:VAL:O	2.11	0.49
46:BN:125:GLY:HA3	46:BN:126:PRO:C	2.32	0.49
43:BJ:69:UNK:O	43:BJ:71:UNK:N	2.45	0.49
57:BY:52:SER:N	57:BY:53:PRO:CD	2.75	0.49
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.11	0.49
35:DA:52:A:C2'	35:DA:53:A:H5'	2.42	0.49
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.12	0.49
35:BA:654(P):C:H2'	35:BA:654(Q):C:O4'	2.12	0.49
35:DA:2115:G:H3'	35:DA:2116:G:C5'	2.42	0.49
37:BC:185:LYS:O	37:BC:186:LEU:C	2.50	0.49
37:DC:185:LYS:O	37:DC:186:LEU:C	2.50	0.49
55:DW:40:ASN:O	55:DW:41:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:72:GLY:C	19:CS:74:PHE:H	2.15	0.49
6:AF:22:GLU:HA	6:AF:22:GLU:OE2	2.12	0.49
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.77	0.49
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.42	0.49
54:DV:99:ILE:H	54:DV:99:ILE:HD13	1.77	0.49
35:BA:350:U:H2'	35:BA:351:G:O4'	2.12	0.49
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.77	0.49
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.41	0.49
41:BG:7:LEU:HB3	41:BG:100:TRP:HE3	1.76	0.49
1:CA:509:A:H2	1:CA:543:C:H1'	1.76	0.49
24:AY:210:ARG:O	24:AY:214:GLU:HG2	2.12	0.49
22:AW:5:G:C6	22:AW:70:C:N4	2.77	0.49
53:BU:47:TYR:CA	53:BU:50:ARG:NH2	2.74	0.49
40:DF:168:ARG:HG3	40:DF:175:THR:HB	1.93	0.49
2:AB:163:PHE:CD2	2:AB:185:ILE:HG13	2.47	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:C5'	2.42	0.49
41:DG:39:ILE:CG1	41:DG:92:VAL:HG23	2.42	0.49
41:DG:57:ALA:O	41:DG:60:LEU:HB3	2.11	0.49
57:BY:84:ARG:HB2	57:BY:97:ARG:HB2	1.92	0.49
24:CY:227:ILE:HG23	24:CY:237:PRO:CG	2.37	0.49
52:DT:66:VAL:HA	52:DT:71:GLY:HA2	1.94	0.49
24:CY:32:ILE:HG23	24:CY:273:LEU:HD21	1.94	0.49
51:BS:74:ALA:HB3	51:BS:103:GLU:HG3	1.95	0.49
31:D6:15:GLU:O	31:D6:16:CYS:O	2.30	0.49
1:AA:1144:G:N2	1:AA:1146:A:H62	2.10	0.49
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.76	0.49
35:BA:811:U:H3'	35:BA:812:C:C5'	2.42	0.49
44:DK:93:ARG:HB2	58:DZ:112:ARG:HH21	1.76	0.49
35:DA:2308:G:N2	41:DG:79:ASN:CB	2.74	0.49
35:DA:2454:G:H2'	35:DA:2455:G:H5'	1.94	0.49
48:DP:144:GLU:HG2	48:DP:144:GLU:O	2.12	0.49
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.93	0.49
51:DS:85:VAL:O	51:DS:106:ARG:HG2	2.13	0.49
1:AA:972:C:H4'	10:AJ:57:LYS:CB	2.42	0.49
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.12	0.49
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.44	0.49
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.12	0.49
26:D1:90:ILE:HG22	26:D1:94:LEU:CD1	2.42	0.49
24:CY:510:VAL:HA	24:CY:570:GLY:HA3	1.94	0.49
58:BZ:79:ARG:O	58:BZ:79:ARG:HG3	2.12	0.49
38:DD:26:LYS:O	38:DD:27:THR:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2019:A:O3'	53:DU:27:LEU:HD12	2.12	0.49
51:BS:49:VAL:HG22	51:BS:80:LEU:HD12	1.95	0.49
10:AJ:69:ASN:O	10:AJ:70:ARG:HG3	2.12	0.49
1:CA:177:C:C2	1:CA:178:C:C5	3.00	0.49
24:CY:506:GLN:HA	24:CY:506:GLN:OE1	2.11	0.49
37:BC:34:ALA:CB	37:BC:179:ALA:HB2	2.43	0.49
37:BC:34:ALA:HA	37:BC:40:GLU:OE2	2.12	0.49
46:BN:65:LYS:CB	46:BN:65:LYS:NZ	2.76	0.49
35:BA:753:C:H2'	35:BA:754:C:H6	1.77	0.49
4:CD:57:ARG:NH1	4:CD:205:GLU:OE2	2.45	0.49
24:AY:681:LYS:HD2	24:AY:682:GLN:N	2.27	0.49
1:CA:1404:C:H1'	1:CA:1499:A:N1	2.26	0.49
57:DY:47:LYS:O	57:DY:48:ALA:O	2.30	0.49
1:AA:1094:G:O2'	1:AA:1095:U:OP2	2.28	0.49
37:BC:120:VAL:O	37:BC:124:VAL:HG23	2.12	0.49
18:AR:87:ARG:CB	18:AR:87:ARG:NH1	2.74	0.49
3:AC:179:ARG:NH2	3:AC:206:GLU:OE2	2.45	0.49
50:DR:18:LEU:HD23	50:DR:19:ALA:N	2.27	0.49
27:B2:61:LEU:HA	27:B2:64:LEU:HB3	1.94	0.49
50:BR:53:HIS:O	50:BR:53:HIS:ND1	2.43	0.49
35:BA:1248:G:N3	53:BU:3:ARG:HD2	2.26	0.49
35:BA:1750:G:O2'	35:BA:1751:C:H5'	2.11	0.49
16:AP:9:PHE:HE2	16:AP:18:ARG:HD2	1.76	0.49
1:AA:636:U:H2'	1:AA:637:G:C8	2.47	0.49
41:BG:5:VAL:O	41:BG:6:ALA:C	2.49	0.49
24:CY:336:THR:HG22	24:CY:337:SER:N	2.27	0.49
27:B2:18:PRO:O	27:B2:19:VAL:C	2.50	0.49
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.12	0.49
35:BA:86:C:H4'	35:BA:104:U:H1'	1.93	0.49
35:DA:1556:C:H2'	35:DA:1557:C:C6	2.47	0.49
35:BA:123:G:O2'	35:BA:124:G:H5'	2.12	0.49
22:CV:76:A:H4'	22:CV:76:A:OP1	2.12	0.49
45:BL:70:UNK:HA	45:BL:73:UNK:CB	2.43	0.49
3:AC:54:ARG:HG2	3:AC:54:ARG:HH11	1.77	0.49
41:DG:129:GLY:O	41:DG:130:ASN:CG	2.51	0.49
1:AA:719:C:C2	18:AR:50:ILE:HG12	2.47	0.49
35:BA:2050:C:H1'	39:BE:156:MET:CE	2.43	0.49
4:AD:8:VAL:C	4:AD:10:ARG:H	2.14	0.49
24:CY:138:LYS:HE2	62:CY:703:GDP:N9	2.27	0.49
7:AG:82:GLY:HA3	23:AX:13:A:C2	2.47	0.49
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:125:ALA:C	24:AY:127:LYS:N	2.66	0.49
53:DU:92:ARG:CD	53:DU:94:ASN:HB3	2.41	0.49
35:DA:769:G:H4'	35:DA:1379:A:N1	2.27	0.49
35:DA:769:G:H2'	35:DA:770:G:H8	1.77	0.49
24:AY:8:ASP:O	24:AY:10:LYS:N	2.44	0.49
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.27	0.49
57:DY:84:ARG:HB2	57:DY:97:ARG:HB2	1.94	0.49
35:BA:363(A):A:H2'	35:BA:363(B):G:C8	2.46	0.49
33:D8:31:HIS:HE1	35:DA:2392:A:OP2	1.94	0.49
8:AH:104:ARG:O	8:AH:107:LEU:N	2.46	0.49
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.89	0.49
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.12	0.49
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.41	0.49
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.12	0.49
1:AA:189(D):C:H2'	1:AA:189(E):U:O4'	2.11	0.49
35:DA:515:A:C2	35:DA:1261:C:H1'	2.48	0.49
35:DA:650:C:C2'	35:DA:651:G:H5''	2.42	0.49
48:BP:147:LEU:O	48:BP:148:LEU:HB2	2.12	0.49
2:CB:82:ARG:HH11	2:CB:82:ARG:HG3	1.77	0.49
35:BA:2787:C:O2	39:BE:61:ARG:HD3	2.12	0.49
39:BE:69:LYS:O	39:BE:71:GLY:N	2.45	0.49
56:BX:34:ALA:HA	56:BX:38:GLU:OE2	2.13	0.49
35:BA:614(A):U:O2'	35:BA:614(B):G:H5'	2.12	0.49
24:AY:16:GLY:N	24:AY:101:LEU:HD13	2.27	0.49
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.48	0.49
52:BT:82:LEU:HD23	52:BT:85:LYS:HD2	1.92	0.49
1:CA:1225:A:H3'	1:CA:1226:C:C6	2.47	0.49
13:CM:91:ARG:HH21	19:CS:81:ARG:NH2	2.10	0.49
35:DA:545:C:H2'	35:DA:547:A:C5'	2.32	0.49
35:BA:2470:G:P	49:BQ:56:ARG:NH1	2.82	0.49
35:DA:478:A:C6	35:DA:480:A:C6	3.01	0.49
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	2.12	0.49
42:DH:68:THR:C	42:DH:70:THR:H	2.15	0.49
24:CY:491:VAL:HG21	24:CY:597:GLY:CA	2.42	0.49
24:AY:340:TYR:CE2	24:AY:351:ARG:HD3	2.47	0.49
35:BA:1669:A:H4'	35:BA:2549:G:H4'	1.94	0.49
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.12	0.49
35:BA:796:C:H2'	35:BA:797:C:H6	1.75	0.49
35:DA:2075:U:C2'	35:DA:2076:U:H5''	2.42	0.49
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.95	0.49
37:BC:30:VAL:O	37:BC:33:LEU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:308:C:H2'	1:AA:309:G:H8	1.78	0.49
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.12	0.49
35:BA:876:C:H2'	35:BA:877:U:O4'	2.12	0.49
26:D1:61:ARG:CB	26:D1:61:ARG:HH11	2.23	0.49
22:CV:2:G:H5'	25:D0:8:GLY:HA2	1.95	0.49
42:DH:104:GLU:HA	42:DH:113:VAL:O	2.11	0.49
58:DZ:127:LYS:HB3	58:DZ:127:LYS:NZ	2.26	0.49
4:CD:62:GLN:O	4:CD:66:ARG:HB2	2.12	0.49
1:AA:1133:G:C4	1:AA:1142:G:N2	2.80	0.49
25:D0:20:ARG:HG2	25:D0:20:ARG:HH11	1.77	0.49
1:CA:460:G:O6	1:CA:470:C:H4'	2.11	0.49
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.13	0.49
27:D2:65:ASN:HD21	35:DA:112:U:H5'	1.76	0.49
3:AC:140:ARG:HH11	3:AC:140:ARG:HG3	1.76	0.49
3:CC:123:GLN:HB3	3:CC:128:PHE:CD2	2.45	0.49
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.11	0.49
18:CR:87:ARG:NH1	18:CR:87:ARG:CB	2.76	0.49
48:DP:108:LYS:C	48:DP:110:TYR:N	2.65	0.49
1:AA:159:G:C2'	1:AA:160:A:H5''	2.42	0.49
44:BK:41:PHE:C	44:BK:43:ALA:H	2.16	0.49
35:DA:2653:U:O2'	42:DH:110:SER:HB3	2.12	0.49
1:CA:936:C:H2'	1:CA:937:A:O4'	2.12	0.49
44:DK:41:PHE:C	44:DK:43:ALA:H	2.16	0.49
22:CV:59:A:C2'	22:CV:60:U:H5'	2.41	0.49
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.41	0.49
24:CY:439:ARG:HB2	24:CY:452:SER:CB	2.43	0.49
19:CS:62:ILE:HG13	19:CS:62:ILE:O	2.12	0.49
35:DA:654(O):G:H2'	35:DA:654(P):C:C6	2.48	0.49
35:DA:180:G:N2	35:DA:214:G:O6	2.45	0.49
35:DA:2564:A:OP1	35:DA:2648:C:H4'	2.12	0.49
38:BD:213:ARG:C	38:BD:215:LEU:H	2.16	0.49
35:BA:1248:G:C4	53:BU:3:ARG:HD2	2.47	0.49
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.93	0.49
45:DL:64:UNK:O	45:DL:65:UNK:C	2.59	0.49
15:CO:31:LEU:N	15:CO:31:LEU:CD2	2.76	0.49
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.12	0.49
35:BA:1536:C:H2'	35:BA:1537:G:H4'	1.94	0.49
1:CA:174:C:H2'	1:CA:175:C:H6	1.77	0.49
35:BA:2653:U:O2'	42:BH:110:SER:HB3	2.12	0.49
35:DA:244:A:H1'	35:DA:255:A:N6	2.28	0.49
21:CU:10:ARG:O	21:CU:13:ILE:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:33:THR:HG23	15:AO:63:ARG:HH12	1.78	0.49
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.13	0.49
24:CY:630:GLN:NE2	24:CY:646:PHE:HB2	2.28	0.49
40:BF:107:LYS:O	40:BF:108:LYS:C	2.50	0.49
40:BF:179:GLU:C	40:BF:181:LEU:H	2.16	0.49
24:AY:122:TRP:CZ3	24:AY:132:ARG:HD2	2.48	0.49
24:AY:181:LEU:HD23	24:AY:182:ARG:HH12	1.77	0.49
24:AY:18:ALA:O	24:AY:19:ALA:CB	2.59	0.49
24:AY:21:ILE:H	24:AY:21:ILE:CD1	2.20	0.49
24:AY:252:ASP:O	24:AY:253:LEU:HB2	2.12	0.49
22:CW:37:U:H2'	22:CW:38:A:C8	2.47	0.49
41:BG:77:ILE:CG2	41:BG:80:PHE:HB2	2.42	0.49
31:B6:10:LEU:HD23	31:B6:10:LEU:N	2.27	0.49
40:DF:185:ASP:HA	40:DF:188:ARG:HD3	1.94	0.49
30:D5:40:LYS:HE2	30:D5:46:CYS:CB	2.42	0.49
3:CC:46:GLU:O	3:CC:47:LEU:CB	2.55	0.49
30:B5:40:LYS:HE2	30:B5:46:CYS:CB	2.42	0.49
35:DA:644:A:C2	35:DA:2369:A:H1'	2.47	0.49
35:DA:154(A):C:C5	35:DA:155:U:H1'	2.47	0.49
35:DA:2481:G:O2'	35:DA:2482:G:P	2.70	0.49
40:BF:10:PRO:HG2	40:BF:11:VAL:H	1.77	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.93	0.49
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.76	0.49
35:BA:1858:G:O2'	35:BA:1884:A:N6	2.45	0.49
48:DP:147:LEU:O	48:DP:148:LEU:HB2	2.11	0.49
33:B8:4:MET:CE	33:B8:61:LEU:HD22	2.42	0.49
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.75	0.49
44:BK:120:LEU:HA	44:BK:123:ALA:HB3	1.95	0.49
39:BE:57:LYS:HZ3	39:BE:63:LEU:HG	1.77	0.49
51:DS:89:ARG:CG	51:DS:92:TYR:CA	2.87	0.49
26:B1:76:ARG:HH12	26:B1:95:LEU:CD2	2.15	0.49
26:B1:76:ARG:HH22	26:B1:95:LEU:CB	2.24	0.49
1:AA:392:G:H2'	1:AA:393:A:H8	1.77	0.49
1:AA:392:G:H2'	1:AA:393:A:C8	2.48	0.49
52:BT:91:ARG:O	52:BT:117:ASP:CB	2.61	0.49
1:CA:323:U:H5'	20:CT:23:ARG:HB2	1.95	0.49
38:BD:183:ARG:HD2	38:BD:270:ILE:HG23	1.94	0.49
2:CB:223:ILE:O	2:CB:226:ARG:N	2.45	0.49
29:D4:48:ARG:O	29:D4:48:ARG:HG2	2.11	0.49
52:DT:83:ILE:CG1	52:DT:84:GLN:N	2.74	0.49
1:CA:1399:C:C2	1:CA:1502:A:N6	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:1:MET:HE1	49:BQ:45:GLN:N	2.27	0.49
52:BT:10:VAL:O	52:BT:11:GLU:C	2.51	0.49
35:DA:979:G:H2'	35:DA:982:C:N4	2.28	0.49
42:DH:50:VAL:HG12	42:DH:51:ARG:N	2.26	0.49
42:DH:46:GLU:CD	42:DH:51:ARG:HB2	2.32	0.49
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.51	0.49
42:DH:121:ILE:HA	42:DH:134:SER:O	2.13	0.49
52:DT:102:ILE:HB	52:DT:110:ILE:HD12	1.94	0.49
24:CY:533:VAL:HB	24:CY:570:GLY:O	2.12	0.49
25:D0:12:ASN:O	25:D0:14:ARG:N	2.41	0.49
24:CY:440:VAL:HG12	24:CY:449:THR:CG2	2.42	0.49
38:BD:24:ILE:CG1	38:BD:25:THR:N	2.74	0.49
35:DA:1654:A:C2	39:DE:113:PHE:CD1	3.01	0.49
12:AL:26:ALA:O	12:AL:27:LEU:O	2.31	0.49
37:DC:34:ALA:HA	37:DC:40:GLU:OE2	2.13	0.49
34:D9:26:ILE:HG22	34:D9:27:CYS:N	2.27	0.49
35:DA:408:G:O2'	35:DA:409:C:H5'	2.12	0.49
24:CY:250:THR:HA	24:CY:255:ILE:HG23	1.95	0.49
1:CA:559:A:P	5:CE:126:ARG:HH22	2.35	0.49
34:B9:27:CYS:SG	34:B9:29:ASN:ND2	2.84	0.49
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.24	0.49
35:DA:2130:U:OP1	37:DC:6:LYS:HB2	2.13	0.49
35:DA:1996:C:OP1	47:DO:31:LYS:HE2	2.13	0.49
28:B3:38:GLU:HB3	28:B3:43:ILE:HG13	1.93	0.49
57:BY:47:LYS:HG3	57:BY:60:PHE:CE2	2.42	0.49
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.76	0.49
27:B2:13:ALA:C	27:B2:15:LYS:H	2.16	0.49
24:AY:510:VAL:CG1	24:AY:567:LEU:HD13	2.42	0.49
35:BA:1035:U:O5'	42:BH:59:ARG:NH1	2.46	0.49
35:DA:2872:G:C2	35:DA:2873:A:N6	2.81	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:CD1	2.43	0.49
35:DA:1028:A:H61	35:DA:1125:G:H2'	1.75	0.49
1:CA:619:U:N3	4:CD:134:ASP:OD2	2.39	0.49
42:BH:33:LEU:HD12	42:BH:75:ALA:O	2.13	0.49
35:BA:552:G:O2'	35:BA:553:G:H5'	2.12	0.49
53:BU:70:ARG:NH2	53:BU:75:ASN:HB2	2.27	0.49
24:CY:182:ARG:HG2	24:CY:239:GLU:OE2	2.12	0.49
19:AS:72:GLY:C	19:AS:74:PHE:H	2.14	0.49
35:DA:1750:G:O2'	35:DA:1751:C:H5'	2.13	0.49
42:BH:34:GLU:O	42:BH:36:PRO:HD3	2.11	0.49
35:DA:1132:A:H2'	35:DA:1133:U:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:23:VAL:HG11	25:B0:69:PHE:HZ	1.77	0.49
1:AA:678:U:H2'	1:AA:679:C:C6	2.47	0.49
1:AA:1216:G:OP1	14:AN:2:ALA:HA	2.13	0.49
6:AF:29:ALA:O	6:AF:31:GLU:N	2.45	0.49
1:CA:948:C:H2'	1:CA:949:A:H8	1.77	0.49
56:BX:68:ARG:O	56:BX:68:ARG:HD3	2.12	0.49
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.27	0.49
24:AY:298:VAL:HG13	24:AY:299:VAL:N	2.26	0.49
42:DH:172:LYS:HB3	42:DH:175:LYS:HB3	1.94	0.49
41:BG:35:GLU:O	41:BG:36:LYS:HB3	2.10	0.49
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.77	0.49
4:AD:8:VAL:C	4:AD:10:ARG:N	2.66	0.49
24:AY:168:ILE:HD11	24:AY:178:ILE:CD1	2.43	0.49
48:BP:7:ARG:HG3	48:BP:7:ARG:HH11	1.77	0.49
54:DV:46:VAL:HG13	54:DV:47:VAL:N	2.27	0.49
53:DU:112:ARG:CZ	54:DV:46:VAL:HG21	2.42	0.49
54:BV:46:VAL:O	54:BV:47:VAL:HG13	2.13	0.49
24:AY:466:LEU:O	24:AY:470:PHE:HB2	2.12	0.49
31:B6:54:ILE:HD13	35:BA:2420:C:C5'	2.41	0.49
40:DF:176:LEU:HD11	40:DF:180:GLY:HA3	1.94	0.49
40:DF:206:ILE:HG22	40:DF:207:GLY:H	1.78	0.49
35:BA:211:A:C3'	35:BA:212:G:H5''	2.41	0.49
35:BA:1081:U:O3'	44:BK:117:THR:HG22	2.13	0.49
3:CC:43:LEU:HD22	3:CC:47:LEU:HD22	1.95	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:CE2	3.01	0.49
31:B6:24:GLU:OE2	35:BA:2346:A:H8	1.95	0.49
51:BS:89:ARG:HE	51:BS:91:PRO:HG2	1.78	0.49
3:CC:156:ARG:NH2	3:CC:160:ALA:O	2.45	0.49
35:DA:1058:G:H21	44:DK:126:MET:HE1	1.77	0.49
46:DN:132:ALA:O	46:DN:133:GLN:HB2	2.12	0.49
35:BA:585:G:H2'	35:BA:1251:C:H42	1.77	0.49
39:BE:38:THR:O	39:BE:42:ASP:HB2	2.12	0.49
2:CB:101:MET:HG2	2:CB:152:PHE:CE2	2.48	0.49
26:B1:81:LYS:HZ1	35:BA:271(I):G:P	2.34	0.49
26:B1:81:LYS:CE	35:BA:271(H):G:H4'	2.33	0.49
2:CB:221:LEU:O	2:CB:221:LEU:HD13	2.12	0.49
50:DR:97:VAL:O	50:DR:98:LEU:HD23	2.12	0.49
39:DE:55:ASN:C	39:DE:57:LYS:H	2.16	0.49
30:B5:35:GLU:O	30:B5:36:CYS:HB3	2.12	0.49
54:DV:28:GLU:CB	54:DV:31:ALA:HB2	2.36	0.49
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:69:ILE:HB	47:BO:77:ILE:HG22	1.95	0.49
29:B4:43:TYR:CD2	29:B4:44:THR:HG23	2.47	0.49
35:DA:190:A:H2'	35:DA:191:A:C8	2.47	0.49
41:DG:77:ILE:O	41:DG:78:SER:C	2.49	0.49
58:DZ:130:PRO:CA	58:DZ:133:ILE:HD11	2.38	0.49
57:BY:46:LYS:HB2	57:BY:62:GLU:HB2	1.95	0.49
24:CY:441:SER:C	24:CY:449:THR:HG23	2.33	0.49
58:BZ:79:ARG:O	58:BZ:80:ARG:CB	2.53	0.49
35:DA:598:G:C5'	48:DP:15:ARG:HB2	2.38	0.49
2:CB:15:VAL:H	2:CB:16:HIS:CE1	2.31	0.49
32:D7:41:ARG:NH2	35:DA:460:A:OP1	2.46	0.49
40:BF:156:LEU:HD21	40:BF:163:VAL:HG12	1.95	0.49
39:BE:93:VAL:C	39:BE:95:ILE:H	2.15	0.49
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.12	0.49
35:DA:363(F):A:O2'	35:DA:364:C:P	2.70	0.49
44:BK:17:ALA:HB3	44:BK:38:VAL:CG2	2.38	0.49
35:DA:876:C:H2'	35:DA:877:U:O4'	2.13	0.49
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.77	0.49
3:CC:5:ILE:H	3:CC:5:ILE:CD1	2.26	0.49
30:B5:24:ALA:HB2	35:BA:15:G:OP2	2.12	0.49
36:BB:81:G:H2'	36:BB:82:G:H5'	1.94	0.49
8:CH:63:LEU:N	8:CH:63:LEU:HD22	2.26	0.49
26:D1:56:GLN:HE22	26:D1:87:PRO:CB	2.24	0.49
35:BA:825:C:C2'	35:BA:826:U:H5'	2.43	0.49
24:AY:539:ILE:HD12	24:AY:567:LEU:CD2	2.42	0.49
35:DA:428:A:H3'	35:DA:429:A:C8	2.47	0.49
3:CC:126:ARG:HD2	3:CC:128:PHE:CZ	2.47	0.49
1:CA:344:A:H5''	1:CA:345:C:OP1	2.12	0.49
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.45	0.49
50:BR:18:LEU:HD23	50:BR:19:ALA:N	2.28	0.49
38:DD:11:PRO:C	38:DD:13:ARG:N	2.66	0.49
38:DD:73:VAL:O	38:DD:75:ILE:HG12	2.11	0.49
35:DA:1095:A:H2'	35:DA:1096:A:C8	2.47	0.49
38:DD:213:ARG:C	38:DD:215:LEU:H	2.15	0.49
35:BA:1169:G:N2	35:BA:1181:C:N3	2.61	0.49
15:CO:65:ARG:H	15:CO:65:ARG:HD2	1.77	0.49
35:BA:680:G:H2'	35:BA:681:G:H8	1.77	0.49
35:DA:246:C:C2'	35:DA:247:G:H5'	2.42	0.49
1:AA:297:G:H4'	1:AA:557:G:H4'	1.95	0.49
2:AB:149:LEU:O	2:AB:150:SER:C	2.50	0.49
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:31:LEU:HD22	15:CO:31:LEU:N	2.28	0.49
8:CH:35:ILE:HG22	8:CH:39:LEU:HD21	1.95	0.49
39:DE:104:VAL:HG22	39:DE:198:VAL:HG22	1.92	0.49
2:CB:149:LEU:O	2:CB:150:SER:C	2.50	0.49
35:DA:2062:A:O4'	35:DA:2062:A:N3	2.45	0.49
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.96	0.49
1:AA:995:C:O2'	1:AA:996:A:H5'	2.13	0.49
35:BA:1891:G:H2'	35:BA:1892:C:O4'	2.12	0.49
22:CW:43:G:N2	22:CW:44:A:H1'	2.27	0.49
1:CA:78:G:H1	1:CA:91:C:H42	1.59	0.49
31:B6:33:LYS:HG2	31:B6:34:LEU:N	2.28	0.49
41:BG:102:PHE:O	41:BG:104:GLU:N	2.46	0.49
41:BG:29:TRP:C	41:BG:31:VAL:N	2.64	0.49
1:CA:979:C:C3'	1:CA:980:C:C5'	2.78	0.49
24:CY:25:LYS:HG3	62:CY:703:GDP:O1B	2.12	0.49
40:BF:192:LEU:HD23	40:BF:193:VAL:N	2.26	0.49
24:AY:85:PRO:HG3	24:AY:94:VAL:HG13	1.95	0.49
9:CI:26:VAL:CG2	9:CI:61:ALA:HB3	2.40	0.49
35:DA:925:C:C3'	35:DA:926:A:H5''	2.42	0.49
58:DZ:61:LEU:HD12	58:DZ:65:GLN:CB	2.42	0.49
31:D6:22:ALA:C	31:D6:23:THR:HG23	2.33	0.49
31:D6:25:LYS:HE2	33:D8:34:TRP:HE1	1.77	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:H5'	1.94	0.49
3:AC:72:LYS:CA	3:AC:72:LYS:HE3	2.43	0.49
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.94	0.49
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.27	0.49
35:DA:2016:U:O2'	35:DA:2017:U:H5'	2.13	0.49
37:DC:128:LEU:CD1	37:DC:132:LEU:HG	2.41	0.49
31:B6:17:LYS:HB2	31:B6:44:ARG:NH1	2.27	0.49
35:DA:1081:U:O3'	44:DK:117:THR:HG22	2.12	0.49
35:BA:142(A):C:O2'	35:BA:1597:A:H5''	2.13	0.49
12:CL:17:LYS:HD3	12:CL:18:VAL:N	2.28	0.49
27:B2:7:ARG:HG3	27:B2:7:ARG:NH1	2.27	0.49
44:DK:77:LEU:CD2	44:DK:77:LEU:H	2.08	0.49
26:B1:86:SER:HA	26:B1:89:GLU:CD	2.33	0.49
35:DA:2308:G:N7	35:DA:2310:A:C5'	2.69	0.49
1:AA:686:U:O2'	1:AA:687:A:H8	1.79	0.49
49:DQ:2:LEU:HG	49:DQ:69:PHE:CE1	2.48	0.49
12:CL:70:ILE:HG21	12:CL:77:LEU:HD12	1.95	0.49
10:CJ:55:LYS:N	10:CJ:55:LYS:HE3	2.26	0.49
41:DG:107:LEU:HD21	41:DG:178:PHE:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:3:MET:HG3	49:BQ:4:PRO:O	2.12	0.49
13:AM:91:ARG:HH21	19:AS:81:ARG:NH2	2.10	0.49
2:AB:17:PHE:CD2	2:AB:18:GLY:N	2.81	0.49
1:CA:738:C:H2'	1:CA:739:C:H6	1.78	0.49
26:B1:4:VAL:HG21	26:B1:11:ARG:NH1	2.27	0.49
35:DA:1678:G:N2	35:DA:1989:G:N2	2.53	0.49
18:AR:59:SER:N	18:AR:62:GLU:HB2	2.24	0.49
39:BE:176:ILE:CG2	39:BE:178:GLU:HB3	2.37	0.49
52:BT:102:ILE:O	52:BT:106:SER:HB3	2.12	0.49
39:DE:14:ILE:HG13	39:DE:21:VAL:CG2	2.43	0.49
27:B2:50:ILE:C	27:B2:52:ASP:N	2.65	0.49
35:BA:1654:A:OP2	50:BR:3:HIS:HB2	2.12	0.49
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.43	0.49
9:CI:10:ARG:CZ	9:CI:105:ASP:OD2	2.61	0.49
1:AA:560:U:H4'	1:AA:561:U:H5''	1.94	0.49
1:AA:1271:G:H2'	1:AA:1272:G:H8	1.77	0.49
36:DB:95:C:O2'	36:DB:96:U:H5'	2.12	0.49
1:AA:190:U:O2'	1:AA:191:G:H5'	2.12	0.49
35:DA:884:C:N4	35:DA:886:C:H42	2.11	0.49
35:BA:884:C:N4	35:BA:886:C:H42	2.10	0.49
35:BA:991:C:C6	35:BA:991:C:H5'	2.40	0.49
26:D1:63:ALA:O	26:D1:67:ILE:HG13	2.13	0.49
53:DU:26:GLY:C	53:DU:28:ARG:N	2.66	0.49
1:AA:1281:U:H5'	1:AA:1282:C:OP2	2.13	0.49
35:BA:848:G:C4	35:BA:933:A:H8	2.31	0.49
15:AO:9:GLN:O	15:AO:10:LYS:C	2.51	0.49
35:DA:112:U:H2'	35:DA:113:G:H5'	1.95	0.49
1:CA:489:C:H2'	1:CA:490:G:C8	2.48	0.49
1:CA:490:G:H2'	1:CA:491:G:C8	2.42	0.49
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.28	0.49
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.13	0.49
13:AM:56:LEU:HD13	13:AM:60:VAL:HG23	1.94	0.49
44:BK:39:LYS:O	44:BK:43:ALA:HB2	2.13	0.49
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.47	0.49
41:DG:19:LEU:HD11	41:DG:172:LEU:HD12	1.95	0.49
35:DA:1064:C:H42	35:DA:1074:G:H1	1.60	0.49
6:AF:62:TRP:CD1	18:AR:35:ARG:NH1	2.81	0.49
1:CA:946:A:H3'	1:CA:947:G:H8	1.77	0.49
38:BD:224:ALA:O	38:BD:225:ALA:HB2	2.13	0.49
1:CA:995:C:O2'	1:CA:996:A:H5'	2.12	0.49
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:79:THR:HG22	19:AS:80:TYR:N	2.27	0.49
36:DB:53:A:H2'	36:DB:53:A:N3	2.27	0.49
38:BD:99:ASP:OD2	38:BD:99:ASP:C	2.51	0.49
56:DX:68:ARG:HD3	56:DX:68:ARG:O	2.13	0.49
58:DZ:103:ARG:HD2	58:DZ:136:PHE:CE1	2.48	0.49
1:CA:502:G:OP1	12:CL:118:SER:HB3	2.12	0.49
41:BG:31:VAL:HG23	41:BG:32:PRO:HD2	1.95	0.49
41:BG:55:LYS:C	41:BG:57:ALA:N	2.66	0.49
24:AY:122:TRP:O	24:AY:125:ALA:N	2.29	0.49
24:AY:84:THR:O	24:AY:85:PRO:O	2.30	0.49
35:BA:2156:G:H2'	35:BA:2157:G:O4'	2.13	0.49
58:BZ:89:PHE:CE1	58:BZ:96:VAL:HG21	2.47	0.49
58:BZ:120:ILE:O	58:BZ:120:ILE:CG2	2.60	0.49
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.36	0.49
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.77	0.49
26:D1:76:ARG:HH22	26:D1:95:LEU:HB2	1.77	0.49
24:AY:451:ILE:HG23	24:AY:459:LEU:HD23	1.95	0.49
30:D5:55:ARG:NH1	50:DR:33:ARG:CD	2.76	0.49
2:AB:121:LEU:HD21	2:AB:126:GLU:OE2	2.13	0.49
39:DE:89:ASP:O	39:DE:90:THR:O	2.30	0.49
35:BA:1141:U:OP2	46:BN:63:THR:OG1	2.24	0.49
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.11	0.49
1:CA:324:G:N2	1:CA:326:G:H3'	2.27	0.49
1:AA:1226:C:H5''	13:AM:103:THR:OG1	2.13	0.49
2:CB:223:ILE:O	2:CB:225:ALA:N	2.45	0.49
57:DY:46:LYS:HB2	57:DY:62:GLU:HB2	1.94	0.49
42:BH:46:GLU:HG3	42:BH:51:ARG:H	1.78	0.49
46:DN:96:GLU:O	46:DN:100:GLU:HG3	2.13	0.49
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CD	2.43	0.49
24:CY:513:LYS:CB	24:CY:566:THR:HB	2.43	0.49
35:DA:1528:A:O2'	35:DA:1528(A):A:O5'	2.30	0.49
10:CJ:63:PHE:CD2	10:CJ:63:PHE:N	2.81	0.49
1:CA:184:G:O2'	1:CA:185:A:H5'	2.13	0.49
3:AC:151:VAL:HG12	3:AC:152:ILE:N	2.26	0.49
22:CV:36:U:H1'	24:CY:503:GLY:H	1.78	0.49
24:AY:232:LEU:HD22	24:AY:232:LEU:N	2.26	0.49
24:AY:406:GLU:CB	24:AY:407:PRO:HD2	2.42	0.49
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.89	0.49
7:AG:116:ALA:O	7:AG:120:ILE:HG12	2.12	0.49
52:DT:62:THR:HA	52:DT:74:ARG:O	2.13	0.49
1:AA:1104:G:P	2:AB:111:ARG:HD2	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:144:THR:O	5:AE:146:ALA:N	2.45	0.49
1:AA:344:A:H5''	1:AA:345:C:OP1	2.13	0.49
35:BA:657:U:H2'	35:BA:658:C:H6	1.74	0.49
23:AX:11:U:O2	23:AX:11:U:C2'	2.60	0.49
35:BA:1344:G:H1	35:BA:1403:C:H42	1.60	0.49
35:BA:52:A:C2'	35:BA:53:A:H5'	2.43	0.49
35:DA:1168:G:H2'	35:DA:1169:G:O4'	2.13	0.49
35:BA:1168:G:H2'	35:BA:1169:G:H8	1.74	0.49
35:DA:2116:G:N7	35:DA:2117:A:C5	2.81	0.49
1:AA:1258:G:C6	1:AA:1259:C:N4	2.81	0.49
1:CA:64:G:N2	1:CA:67:C:C4	2.81	0.49
1:CA:46:G:O2'	1:CA:365:U:H1'	2.13	0.49
35:BA:1692:U:H2'	35:BA:1694:C:C4	2.48	0.49
35:BA:2860:A:C2'	35:BA:2861:G:H5'	2.43	0.49
17:AQ:94:ASN:O	17:AQ:95:TYR:C	2.49	0.49
58:BZ:9:TYR:HB3	58:BZ:35:ARG:NH2	2.27	0.49
2:CB:148:TYR:O	2:CB:149:LEU:HD23	2.12	0.49
46:BN:115:ARG:HA	46:BN:118:LYS:HE2	1.94	0.49
35:BA:250:G:H2'	35:BA:251:A:C8	2.47	0.49
20:CT:96:GLY:O	20:CT:97:ALA:O	2.31	0.49
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.12	0.49
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.61	0.49
31:D6:33:LYS:HG2	31:D6:34:LEU:N	2.28	0.49
35:DA:2192:G:C3'	35:DA:2193:G:H5''	2.42	0.49
1:AA:529:G:O6	12:AL:49:ASN:HA	2.13	0.49
35:DA:2845:G:O2'	35:DA:2846:G:H5'	2.13	0.49
58:DZ:54:HIS:HE1	58:DZ:123:ASP:OD2	1.96	0.49
1:CA:1447:A:H2'	1:CA:1447:A:N3	2.26	0.49
1:AA:170:U:O2'	1:AA:171:A:H5'	2.13	0.49
35:DA:685:A:C5	35:DA:774:A:C2	3.00	0.49
41:BG:103:LEU:HA	41:BG:106:LEU:HB3	1.94	0.49
35:DA:2012:G:C4'	55:DW:96:ILE:HD11	2.18	0.49
4:CD:31:CYS:O	4:CD:32:ALA:CB	2.60	0.49
24:CY:670:VAL:O	24:CY:671:MET:HB3	2.12	0.49
24:CY:456:GLU:O	24:CY:460:GLU:HB2	2.12	0.49
24:CY:92:ILE:HG21	24:CY:454:MET:HE1	1.95	0.49
24:AY:230:LYS:HB2	24:AY:230:LYS:NZ	2.28	0.49
53:DU:55:ARG:HA	53:DU:58:ARG:HB2	1.95	0.49
53:DU:59:ARG:O	53:DU:62:ILE:N	2.42	0.49
54:DV:38:LEU:C	54:DV:39:LEU:HD13	2.33	0.49
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.34	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:107:LYS:O	40:DF:108:LYS:C	2.51	0.49
33:D8:21:LYS:HD3	33:D8:48:PHE:CE2	2.48	0.49
24:CY:272:LEU:HD12	24:CY:275:ALA:HB3	1.95	0.49
37:DC:138:LEU:HD13	37:DC:138:LEU:C	2.33	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:HE2	2.30	0.49
8:CH:104:ARG:O	8:CH:105:ARG:C	2.51	0.49
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.13	0.49
12:AL:70:ILE:HD12	12:AL:75:HIS:NE2	2.27	0.49
44:DK:93:ARG:CG	58:DZ:112:ARG:HE	2.26	0.49
1:AA:1402:C:O2	1:AA:1500:A:N1	2.46	0.49
48:BP:85:LEU:HD12	48:BP:120:ALA:CB	2.32	0.49
36:BB:8:U:H5'	36:BB:8:U:H6	1.78	0.49
35:BA:2305:A:O2'	41:BG:136:ARG:HG2	2.13	0.49
1:AA:265:G:O2'	1:AA:266:G:H5'	2.13	0.49
2:AB:101:MET:HG2	2:AB:152:PHE:CE2	2.48	0.49
35:DA:2892:A:H62	35:DA:2893:G:H21	1.59	0.49
39:DE:69:LYS:O	39:DE:71:GLY:N	2.45	0.49
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.11	0.49
35:DA:2320:A:C2	35:DA:2333:A:C8	3.01	0.49
1:AA:1442:G:H2'	52:BT:118:ARG:HH12	1.77	0.49
24:AY:289:ILE:O	24:AY:301:ILE:HG12	2.13	0.49
19:CS:31:ILE:O	19:CS:31:ILE:HG23	2.12	0.49
1:CA:1226:C:H5''	13:CM:103:THR:HB	1.94	0.49
36:DB:86:G:C6	36:DB:92:C:N3	2.81	0.49
57:BY:29:GLU:N	57:BY:29:GLU:OE1	2.46	0.49
6:CF:33:TYR:O	6:CF:34:GLY:C	2.51	0.49
18:CR:53:ARG:C	18:CR:55:ARG:N	2.66	0.49
57:DY:46:LYS:H	57:DY:62:GLU:CB	2.19	0.49
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.76	0.49
42:BH:17:VAL:HB	42:BH:45:VAL:HG13	1.93	0.49
58:DZ:128:VAL:CG2	58:DZ:129:SER:H	2.23	0.49
35:BA:979:G:H2'	35:BA:982:C:N4	2.27	0.49
52:DT:50:ILE:CG1	52:DT:102:ILE:HD11	2.42	0.49
35:BA:2019:A:O3'	53:BU:27:LEU:HD12	2.12	0.49
24:CY:102:ASP:O	24:CY:130:VAL:HG22	2.12	0.49
12:AL:46:LYS:HZ2	12:AL:94:PRO:HG3	1.78	0.49
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.12	0.49
23:AX:16:A:H2'	23:AX:17:U:H6	1.78	0.49
1:CA:190:U:O2'	1:CA:191:G:H5'	2.13	0.49
1:CA:624:C:H2'	1:CA:625:G:C8	2.48	0.49
44:BK:17:ALA:HB1	44:BK:38:VAL:HG22	1.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2020:A:C6	35:DA:2022:U:N3	2.81	0.49
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.95	0.49
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.43	0.49
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.27	0.49
35:BA:272(D):G:H1	35:BA:364:C:H42	1.61	0.49
55:BW:82:LEU:N	55:BW:82:LEU:CD1	2.76	0.49
1:CA:218:C:H5'	1:CA:470:C:H41	1.78	0.49
38:DD:14:ARG:HG3	38:DD:15:PHE:N	2.28	0.49
10:AJ:22:LYS:O	10:AJ:22:LYS:HD2	2.12	0.49
27:B2:20:GLU:O	27:B2:21:LEU:C	2.51	0.49
24:CY:326:THR:OG1	24:CY:377:VAL:HG22	2.13	0.49
26:D1:30:VAL:CG2	26:D1:31:GLY:H	2.24	0.49
35:BA:825:C:H2'	35:BA:826:U:O4'	2.13	0.49
24:AY:507:TYR:CD1	24:AY:507:TYR:C	2.86	0.49
14:AN:12:ARG:O	14:AN:14:PRO:CD	2.61	0.49
14:AN:15:LYS:O	14:AN:16:PHE:C	2.50	0.49
1:AA:1158:C:N3	1:AA:1181:G:N2	2.56	0.49
23:AX:11:U:H4'	23:AX:12:A:O5'	2.11	0.49
57:DY:49:VAL:O	57:DY:51:VAL:HG23	2.12	0.49
27:B2:57:ILE:HG22	27:B2:61:LEU:HD12	1.94	0.49
35:BA:1499:C:O2'	35:BA:1500:G:H5'	2.13	0.49
18:AR:40:LEU:C	18:AR:42:ARG:H	2.15	0.49
20:AT:33:ILE:CD1	20:AT:63:ILE:HA	2.43	0.49
35:DA:29:U:O2'	35:DA:30:G:H5'	2.12	0.49
30:D5:24:ALA:HB2	35:DA:15:G:OP2	2.12	0.49
38:DD:200:ASP:O	38:DD:201:HIS:C	2.51	0.49
8:AH:86:ILE:HG13	8:AH:133:LEU:HD22	1.93	0.49
35:BA:1169:G:C2	35:BA:1181:C:N3	2.81	0.49
1:CA:409:G:H1	1:CA:433:C:H42	1.61	0.49
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.76	0.49
1:AA:142:G:H1	1:AA:221:C:H42	1.61	0.49
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.26	0.49
35:BA:1461:G:H2'	35:BA:1462:C:H6	1.77	0.49
26:B1:29:GLY:O	26:B1:31:GLY:N	2.46	0.49
25:B0:78:TYR:N	25:B0:78:TYR:CD1	2.78	0.49
35:DA:324:A:OP2	35:DA:1205:U:N3	2.46	0.49
7:AG:78:ARG:HE	7:AG:156:TRP:HB3	1.78	0.49
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.12	0.49
35:DA:325:G:H2'	35:DA:326:G:H8	1.78	0.49
21:AU:9:ARG:HH11	21:AU:22:ARG:HG3	1.78	0.49
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:23:ASP:OD1	16:AP:24:ALA:N	2.45	0.49
2:CB:109:SER:O	2:CB:112:VAL:HB	2.13	0.49
1:CA:858:G:O2'	1:CA:859:A:H5''	2.13	0.49
22:CW:18:U:H2'	22:CW:18:U:O2	2.13	0.49
24:AY:292:THR:HG23	24:AY:297:GLU:H	1.77	0.49
29:B4:2:LYS:HG2	36:BB:44:G:P	2.52	0.49
41:BG:56:ALA:CB	41:BG:153:ARG:NH2	2.76	0.49
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.60	0.49
35:BA:1326:U:H5''	35:BA:2011:U:H1'	1.93	0.49
53:BU:112:ARG:CZ	54:BV:46:VAL:HG21	2.43	0.49
9:AI:59:PHE:CD1	9:AI:59:PHE:N	2.81	0.49
24:AY:413:ILE:O	24:AY:413:ILE:HG23	2.13	0.49
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.28	0.49
35:BA:194:G:H2'	35:BA:195:A:O4'	2.11	0.49
35:BA:2415:G:H4'	48:BP:66:GLY:C	2.33	0.49
35:BA:272(I):U:O2	35:BA:272(I):U:C3'	2.59	0.49
41:DG:40:ASN:O	41:DG:156:ASP:N	2.40	0.49
41:DG:46:ALA:O	41:DG:47:LYS:O	2.31	0.49
19:AS:35:SER:C	19:AS:37:ARG:N	2.66	0.49
50:DR:63:ARG:HA	50:DR:80:PHE:CZ	2.48	0.49
24:CY:146:LEU:HD12	24:CY:167:PRO:HD3	1.95	0.49
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.12	0.49
46:DN:133:GLN:CG	46:DN:134:ARG:N	2.75	0.49
58:DZ:109:ALA:C	58:DZ:111:VAL:N	2.66	0.49
28:D3:31:LEU:HD22	28:D3:32:GLN:H	1.77	0.49
27:D2:16:LEU:O	27:D2:20:GLU:HB3	2.13	0.49
35:DA:2453:A:OP1	35:DA:2573:C:H5	1.96	0.49
35:DA:961:C:N4	35:DA:2031:A:H1'	2.27	0.49
48:BP:107:LYS:O	48:BP:109:GLY:N	2.45	0.49
30:D5:55:ARG:O	30:D5:56:LYS:CB	2.52	0.49
1:AA:253:U:H2'	1:AA:254:G:H8	1.77	0.49
35:DA:2747:G:O2'	42:DH:67:LEU:HD12	2.13	0.49
35:BA:821:A:O2'	35:BA:945:A:H3'	2.13	0.49
39:BE:51:PHE:N	39:BE:74:PRO:HG3	2.28	0.49
46:BN:58:ASP:C	46:BN:60:ILE:N	2.60	0.49
51:DS:89:ARG:HG3	51:DS:92:TYR:HB3	1.95	0.49
1:AA:1225:A:H3'	1:AA:1226:C:C6	2.48	0.49
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.41	0.49
52:DT:82:LEU:CD2	52:DT:85:LYS:HD2	2.43	0.49
1:CA:1511:G:O2'	1:CA:1512:U:H5'	2.13	0.49
24:CY:513:LYS:HB2	24:CY:566:THR:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:529:ILE:HD11	24:CY:534:ILE:HD12	1.95	0.49
35:BA:478:A:C6	35:BA:480:A:C6	3.00	0.49
27:D2:53:LEU:O	27:D2:57:ILE:HG12	2.11	0.49
25:B0:47:PRO:HB3	25:B0:51:VAL:O	2.12	0.49
58:BZ:109:ALA:HB1	58:BZ:145:GLU:OE2	2.13	0.49
1:AA:1277:C:H3'	1:AA:1277:C:H6	1.77	0.49
2:AB:15:VAL:H	2:AB:16:HIS:CE1	2.31	0.49
35:DA:2804:C:H2'	35:DA:2805:G:H8	1.69	0.49
35:BA:408:G:O2'	35:BA:409:C:H5'	2.13	0.49
35:BA:345:A:O2'	35:BA:346:A:N7	2.46	0.49
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.94	0.49
24:CY:105:ILE:N	24:CY:105:ILE:HD12	2.28	0.49
32:D7:28:ARG:NH1	32:D7:28:ARG:HG3	2.28	0.49
50:BR:12:ARG:HB3	50:BR:16:HIS:HD2	1.78	0.49
37:BC:23:ILE:CB	37:BC:229:SER:OXT	2.60	0.49
35:DA:756:C:C2'	35:DA:757:U:H5'	2.43	0.49
24:AY:679:VAL:HG23	24:AY:684:GLN:NE2	2.28	0.49
35:DA:48:G:N2	35:DA:177:G:N2	2.61	0.49
35:BA:958:U:H5'	49:BQ:14:ARG:NH1	2.27	0.49
24:AY:519:ARG:HH21	24:AY:677:GLN:HB2	1.78	0.49
35:BA:1582:C:H2'	35:BA:1583:A:C8	2.43	0.49
35:DA:90:U:H3'	35:DA:90:U:O2	2.13	0.49
1:CA:60:A:C5'	1:CA:331:G:H22	2.23	0.49
35:DA:76:C:O2'	35:DA:77:C:H5'	2.13	0.49
37:BC:115:VAL:HG12	37:BC:145:THR:CG2	2.40	0.49
46:DN:18:ALA:O	46:DN:21:LYS:HB2	2.12	0.49
1:CA:1346:A:N6	1:CA:1375:A:OP2	2.40	0.49
3:AC:10:PHE:CE1	3:AC:178:LEU:HD11	2.48	0.49
35:BA:729:G:OP2	38:BD:13:ARG:NH1	2.46	0.49
35:DA:1035:U:H2'	35:DA:1036:G:C8	2.47	0.49
40:DF:42:ALA:O	40:DF:45:ARG:HG3	2.12	0.49
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.13	0.49
51:BS:40:ILE:CG2	51:BS:41:ASP:N	2.76	0.49
35:BA:29:U:O2'	35:BA:30:G:H5'	2.13	0.49
35:DA:537:C:H2'	35:DA:538:G:C8	2.48	0.49
35:DA:618:C:H2'	35:DA:619:G:O4'	2.13	0.49
38:DD:81:ALA:HA	38:DD:113:VAL:CG2	2.43	0.49
35:BA:1462:C:H4'	35:BA:2703:C:H5'	1.94	0.49
6:CF:22:GLU:HA	6:CF:22:GLU:OE2	2.12	0.49
35:BA:1040:C:H2'	35:BA:1041:C:C6	2.47	0.49
8:CH:31:PHE:O	8:CH:34:GLU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.13	0.49
36:DB:74:U:H2'	36:DB:75:G:H5'	1.95	0.49
1:AA:63:C:O2'	1:AA:380:G:H4'	2.13	0.49
7:AG:134:ALA:O	7:AG:137:LYS:N	2.42	0.49
35:DA:938:G:H2'	35:DA:939:G:H8	1.77	0.49
35:DA:718:A:H2'	35:DA:719:C:O4'	2.13	0.49
1:AA:318:G:H2'	1:AA:319:G:H8	1.77	0.49
39:DE:152:LYS:HG3	39:DE:153:GLY:N	2.27	0.49
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.13	0.49
24:CY:451:ILE:O	24:CY:451:ILE:HG23	2.13	0.49
28:B3:2:PRO:O	28:B3:3:ARG:O	2.31	0.49
58:DZ:96:VAL:O	58:DZ:96:VAL:HG13	2.11	0.49
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.12	0.49
35:DA:777:A:H2'	35:DA:778:G:C8	2.48	0.49
41:BG:110:ALA:HA	41:BG:140:ILE:O	2.13	0.48
41:BG:97:ASP:O	41:BG:101:ILE:N	2.42	0.48
1:AA:509:A:H2	1:AA:543:C:H1'	1.78	0.48
35:DA:1047:G:O2'	35:DA:1110:G:N2	2.45	0.48
24:AY:139:MET:CE	24:AY:167:PRO:HG3	2.42	0.48
31:B6:27:LYS:CD	31:B6:30:THR:HB	2.43	0.48
48:BP:64:LYS:O	48:BP:64:LYS:HD3	2.13	0.48
57:BY:31:LEU:HD22	57:BY:31:LEU:H	1.77	0.48
1:CA:1296:C:O2'	1:CA:1302:U:C5	2.60	0.48
41:BG:165:THR:O	41:BG:166:ASP:C	2.50	0.48
24:CY:35:TYR:O	24:CY:36:THR:C	2.50	0.48
31:B6:47:THR:OG1	31:B6:48:VAL:N	2.46	0.48
51:BS:33:LYS:HG2	51:BS:34:HIS:CD2	2.48	0.48
48:BP:16:ARG:CZ	48:BP:18:ARG:HB2	2.43	0.48
48:DP:95:VAL:CG2	48:DP:125:VAL:HG23	2.42	0.48
48:DP:112:LEU:H	48:DP:128:HIS:HD2	1.58	0.48
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.48	0.48
1:CA:973:G:O4'	10:CJ:55:LYS:HE2	2.13	0.48
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.77	0.48
29:D4:22:ILE:CG2	29:D4:23:GLU:N	2.76	0.48
30:B5:55:ARG:NH1	50:BR:33:ARG:CD	2.75	0.48
13:AM:79:LYS:HA	13:AM:82:MET:HG3	1.95	0.48
19:CS:19:VAL:HG12	19:CS:20:LEU:HG	1.95	0.48
1:CA:965:A:C2	1:CA:969:A:C2	3.01	0.48
30:D5:35:GLU:O	30:D5:36:CYS:CB	2.60	0.48
29:B4:22:ILE:CG2	29:B4:23:GLU:N	2.76	0.48
27:B2:48:HIS:HD1	35:BA:95:G:HO2'	1.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.13	0.48
35:BA:409:C:O2'	35:BA:410:G:H5'	2.13	0.48
24:AY:341:VAL:HG23	24:AY:350:GLU:HB2	1.95	0.48
35:DA:1558:A:O2'	35:DA:1559:G:OP2	2.30	0.48
24:CY:122:TRP:HH2	24:CY:256:THR:OG1	1.96	0.48
35:DA:2656:U:N3	35:DA:2665:A:H2	2.11	0.48
30:B5:27:PRO:CD	55:BW:23:LEU:HD11	2.43	0.48
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.95	0.48
35:BA:910:A:C6	49:BQ:13:GLN:HG3	2.48	0.48
10:AJ:22:LYS:NZ	10:AJ:88:LEU:HD23	2.29	0.48
49:BQ:11:LYS:NZ	49:BQ:88:GLY:O	2.40	0.48
1:CA:986:A:H2'	1:CA:987:G:H8	1.78	0.48
52:BT:62:THR:HA	52:BT:74:ARG:O	2.13	0.48
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.12	0.48
35:DA:2794:C:H42	35:DA:2801(A):A:N6	2.11	0.48
49:BQ:134:ARG:HG3	49:BQ:134:ARG:HH11	1.78	0.48
30:D5:19:ARG:HD2	35:DA:1266:G:OP1	2.13	0.48
43:DJ:18:UNK:O	43:DJ:88:UNK:CB	2.61	0.48
35:BA:2348:U:H2'	35:BA:2349:G:H5'	1.95	0.48
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.77	0.48
35:BA:1353:A:H4'	38:BD:38:LYS:HE3	1.95	0.48
24:CY:192:LEU:HD12	24:CY:194:THR:HG23	1.94	0.48
8:AH:32:LYS:O	8:AH:34:GLU:N	2.46	0.48
41:DG:126:ASP:CB	41:DG:130:ASN:HB2	2.42	0.48
1:AA:908:A:H2'	1:AA:909:A:C8	2.48	0.48
47:BO:98:VAL:CG2	47:BO:118:ALA:HA	2.43	0.48
24:CY:423:LYS:NZ	24:CY:470:PHE:O	2.38	0.48
4:AD:170:VAL:O	4:AD:171:GLY:O	2.31	0.48
1:AA:238:G:C6	1:AA:239:U:C4	3.00	0.48
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.26	0.48
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.77	0.48
1:AA:532:A:H61	3:AC:193:TYR:HB3	1.78	0.48
22:CV:57:A:H2'	22:CV:58:A:H5'	1.95	0.48
39:BE:203:LYS:HG3	39:BE:204:ALA:N	2.27	0.48
42:BH:171:LEU:HD23	42:BH:172:LYS:N	2.28	0.48
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.43	0.48
1:CA:542:G:H5'	4:CD:41:GLY:HA2	1.95	0.48
1:AA:409:G:H1	1:AA:433:C:H42	1.60	0.48
10:CJ:4:ILE:CD1	10:CJ:74:ILE:HG13	2.39	0.48
22:CW:36:A:O2'	22:CW:37:U:H5'	2.14	0.48
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:199:TRP:O	40:DF:202:PHE:HB3	2.13	0.48
31:D6:6:ARG:O	31:D6:7:ILE:CB	2.61	0.48
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.94	0.48
30:B5:2:ALA:CA	35:BA:2015:A:C1'	2.86	0.48
35:BA:2053:G:H1	35:BA:2616:C:H42	1.60	0.48
1:CA:1298:C:H5''	7:CG:114:ARG:NH2	2.28	0.48
24:CY:9:LEU:CD2	24:CY:284:LEU:HB2	2.43	0.48
3:CC:59:ARG:HG2	3:CC:64:VAL:HA	1.95	0.48
1:CA:6:G:H2'	5:CE:119:LEU:CD1	2.44	0.48
46:DN:132:ALA:O	46:DN:133:GLN:CB	2.61	0.48
27:D2:16:LEU:O	27:D2:20:GLU:CB	2.61	0.48
36:DB:8:U:H5'	36:DB:8:U:H6	1.78	0.48
48:DP:107:LYS:C	48:DP:109:GLY:N	2.66	0.48
48:DP:146:VAL:HG13	48:DP:147:LEU:N	2.27	0.48
30:D5:55:ARG:NH1	50:DR:33:ARG:HD2	2.28	0.48
19:AS:42:PRO:C	19:AS:43:GLU:HG3	2.33	0.48
39:DE:87:GLU:O	39:DE:89:ASP:N	2.46	0.48
39:DE:36:ARG:NH2	39:DE:88:GLY:CA	2.75	0.48
35:DA:2293:C:OP1	51:DS:92:TYR:OH	2.31	0.48
51:DS:35:ILE:CD1	51:DS:99:LYS:HE3	2.42	0.48
52:DT:91:ARG:O	52:DT:117:ASP:CB	2.61	0.48
20:AT:26:ASN:ND2	20:AT:26:ASN:N	2.61	0.48
19:CS:41:VAL:C	19:CS:43:GLU:N	2.66	0.48
35:BA:2470:G:C6	35:BA:2471:C:C5	3.01	0.48
52:BT:6:LEU:O	52:BT:7:ILE:C	2.51	0.48
42:DH:17:VAL:O	42:DH:45:VAL:CG2	2.60	0.48
38:DD:267:SER:C	38:DD:269:PHE:H	2.17	0.48
46:BN:67:LEU:HB3	46:BN:88:GLU:HG2	1.93	0.48
42:DH:146:ALA:O	42:DH:149:ARG:N	2.46	0.48
1:CA:814:A:H5'	1:CA:1511:G:H4'	1.95	0.48
40:DF:62:ARG:NH2	40:DF:64:ILE:HA	2.28	0.48
13:CM:45:VAL:HA	13:CM:48:LEU:CD1	2.44	0.48
38:BD:4:LYS:NZ	38:BD:21:PHE:H	2.11	0.48
24:CY:231:TYR:HE2	45:DL:87:UNK:CB	2.26	0.48
4:AD:96:LEU:N	4:AD:96:LEU:HD22	2.23	0.48
42:BH:156:ALA:C	42:BH:158:HIS:H	2.16	0.48
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.33	0.48
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.34	0.48
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.13	0.48
16:CP:54:GLU:OE2	16:CP:54:GLU:HA	2.13	0.48
32:B7:8:ASN:HD22	32:B7:9:ARG:H	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:68:C:H2'	36:DB:69:G:C8	2.48	0.48
1:CA:1485:U:O2'	1:CA:1486:G:H5'	2.12	0.48
20:CT:74:LYS:H	20:CT:74:LYS:HD3	1.77	0.48
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.95	0.48
8:CH:123:GLU:O	8:CH:126:LYS:HB3	2.12	0.48
26:D1:29:GLY:O	26:D1:31:GLY:N	2.46	0.48
49:DQ:68:ILE:HG23	49:DQ:103:MET:HA	1.94	0.48
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.60	0.48
25:B0:5:LYS:HB3	25:B0:5:LYS:NZ	2.29	0.48
35:BA:229:A:H8	35:BA:229:A:OP1	1.96	0.48
57:DY:52:SER:N	57:DY:53:PRO:CD	2.76	0.48
1:CA:201:C:C2'	1:CA:202:U:H5''	2.43	0.48
53:BU:84:LYS:C	53:BU:86:ALA:H	2.15	0.48
35:BA:247:G:H4'	35:BA:386:G:C5	2.48	0.48
48:BP:124:LYS:HD3	48:BP:143:GLY:CA	2.43	0.48
54:DV:2:PHE:O	54:DV:14:VAL:O	2.31	0.48
32:B7:34:ARG:HH12	32:B7:39:ARG:CD	2.26	0.48
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.13	0.48
35:BA:2115:G:H3'	35:BA:2116:G:C5'	2.43	0.48
35:BA:618:C:H2'	35:BA:619:G:O4'	2.13	0.48
35:BA:68:G:H2'	35:BA:69:C:C6	2.47	0.48
37:BC:11:LEU:C	37:BC:13:GLU:N	2.66	0.48
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.49	0.48
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.13	0.48
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.77	0.48
22:CW:2:G:H2'	22:CW:3:C:C6	2.48	0.48
49:BQ:58:PHE:CD1	49:BQ:58:PHE:O	2.66	0.48
35:DA:1233:C:H2'	35:DA:1234:U:H6	1.76	0.48
1:CA:1216:G:OP1	14:CN:2:ALA:HA	2.12	0.48
35:BA:1270:C:H5''	35:BA:1271:G:O5'	2.13	0.48
1:CA:908:A:H2'	1:CA:909:A:C8	2.48	0.48
35:BA:2135:A:H2'	35:BA:2136:C:O4'	2.13	0.48
35:BA:1767:C:H2'	35:BA:1768:U:O4'	2.13	0.48
1:CA:63:C:O2'	1:CA:380:G:H4'	2.13	0.48
52:BT:113:LYS:O	52:BT:114:LEU:HD23	2.13	0.48
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.13	0.48
44:BK:2:LYS:HB2	44:BK:2:LYS:NZ	2.28	0.48
35:DA:1767:C:H2'	35:DA:1768:U:O4'	2.13	0.48
17:CQ:94:ASN:O	17:CQ:96:GLU:N	2.46	0.48
41:BG:46:ALA:C	41:BG:51:ARG:HG3	2.34	0.48
1:CA:509:A:H2'	1:CA:509:A:N3	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:92:ILE:CB	24:CY:405:PRO:HG2	2.43	0.48
24:AY:122:TRP:CZ2	24:AY:159:ALA:HB2	2.49	0.48
24:AY:25:LYS:NZ	24:AY:86:GLY:HA2	2.27	0.48
46:DN:2:LYS:HZ3	54:DV:12:TYR:HA	1.77	0.48
35:BA:1047:G:O2'	35:BA:1110:G:N2	2.46	0.48
31:B6:11:LEU:HD22	31:B6:11:LEU:C	2.33	0.48
35:DA:295:G:O2'	35:DA:296:C:H5'	2.13	0.48
31:D6:8:LYS:HZ1	35:DA:2285:C:H5	1.53	0.48
33:D8:50:LEU:O	33:D8:52:LYS:N	2.34	0.48
48:DP:64:LYS:O	48:DP:66:GLY:N	2.40	0.48
58:BZ:151:HIS:O	58:BZ:152:ALA:C	2.51	0.48
44:BK:121:GLU:O	44:BK:125:ARG:HG3	2.13	0.48
3:CC:78:GLY:HA3	3:CC:83:ARG:HB3	1.96	0.48
24:CY:208:GLN:O	24:CY:209:ALA:O	2.31	0.48
24:CY:137:ASN:ND2	24:CY:263:ALA:CB	2.76	0.48
24:CY:13:ARG:NH1	24:CY:277:VAL:HG23	2.27	0.48
31:D6:42:TRP:CH2	35:DA:643:A:N7	2.81	0.48
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.42	0.48
24:AY:77:HIS:CD2	24:AY:277:VAL:HG21	2.48	0.48
35:DA:821:A:O2'	35:DA:945:A:H3'	2.13	0.48
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.48	0.48
38:BD:259:THR:O	38:BD:260:ARG:O	2.32	0.48
2:CB:187:LEU:HD22	2:CB:201:ILE:O	2.14	0.48
35:BA:2754:U:H2'	35:BA:2756:U:OP1	2.12	0.48
35:BA:2205:C:O2	35:BA:2205:C:H2'	2.12	0.48
35:DA:1141:U:H1'	35:DA:1142(A):A:C2	2.48	0.48
58:DZ:17:ALA:HA	58:DZ:20:ARG:HD3	1.95	0.48
38:BD:183:ARG:CG	38:BD:183:ARG:HH11	2.14	0.48
55:DW:6:ILE:HG13	55:DW:104:THR:HG23	1.95	0.48
24:AY:303:PRO:HA	24:AY:331:TYR:O	2.12	0.48
49:BQ:45:GLN:H	49:BQ:45:GLN:HE21	1.54	0.48
12:CL:41:ARG:HG2	12:CL:42:THR:N	2.23	0.48
42:DH:17:VAL:HB	42:DH:45:VAL:HG13	1.95	0.48
24:AY:518:PRO:HD2	24:AY:521:SER:OG	2.13	0.48
42:DH:83:TYR:CB	42:DH:134:SER:HA	2.38	0.48
24:CY:264:LEU:HD22	24:CY:265:LYS:HZ3	1.79	0.48
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.44	0.48
35:DA:363(F):A:H1'	35:DA:364:C:H5	1.78	0.48
1:CA:1444:C:O5'	1:CA:1444:C:H6	1.96	0.48
56:BX:7:VAL:HB	56:BX:8:ILE:HD12	1.95	0.48
35:BA:295:G:O2'	35:BA:296:C:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:557:U:H2'	35:DA:558:G:H8	1.77	0.48
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.71	0.48
35:DA:755:C:H2'	35:DA:756:C:C6	2.49	0.48
1:CA:1405:G:H21	1:CA:1518:A:H1'	1.77	0.48
40:DF:89:VAL:O	40:DF:91:GLY:N	2.43	0.48
35:DA:1721:G:O6	35:DA:1739:U:H5'	2.14	0.48
38:BD:77:ALA:O	38:BD:116:GLN:HG3	2.12	0.48
35:DA:1788:C:H2'	35:DA:1789:A:H8	1.77	0.48
35:DA:112:U:C2'	35:DA:113:G:H5'	2.44	0.48
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.12	0.48
1:CA:779:C:H2'	1:CA:780:A:O4'	2.14	0.48
35:BA:90:U:H3'	35:BA:90:U:O2	2.13	0.48
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.48	0.48
24:AY:510:VAL:HG11	24:AY:567:LEU:HD13	1.96	0.48
35:BA:688:U:C4'	35:BA:1780:A:C2	2.97	0.48
35:DA:760:G:C2'	35:DA:761:A:H5'	2.44	0.48
3:AC:126:ARG:HD2	3:AC:128:PHE:CZ	2.48	0.48
35:DA:739:G:HO2'	35:DA:740:U:H6	1.60	0.48
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.95	0.48
35:DA:786:C:C2'	35:DA:787:U:H5'	2.43	0.48
20:AT:84:LEU:O	20:AT:86:ARG:N	2.46	0.48
35:BA:1028:A:H61	35:BA:1125:G:H2'	1.77	0.48
35:BA:999:U:OP2	35:BA:1153:C:OP2	2.31	0.48
35:DA:230:U:O2'	35:DA:231:C:H5'	2.12	0.48
24:CY:312:LEU:HD11	24:CY:401:SER:OG	2.13	0.48
35:BA:443:A:H3'	40:BF:45:ARG:NH2	2.27	0.48
35:BA:428:A:H3'	35:BA:429:A:C8	2.47	0.48
35:DA:729:G:OP2	38:DD:13:ARG:NH1	2.46	0.48
35:DA:1491:G:H21	35:DA:1492:G:H1'	1.77	0.48
58:DZ:55:HIS:CE1	58:DZ:135:GLU:OE2	2.65	0.48
2:AB:60:ASP:O	2:AB:64:ARG:NE	2.46	0.48
24:AY:314:PHE:CD1	24:AY:315:LYS:HB2	2.48	0.48
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.33	0.48
55:BW:41:LYS:C	55:BW:43:GLY:N	2.66	0.48
24:AY:561:VAL:O	24:AY:562:ASP:HB2	2.13	0.48
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.14	0.48
58:BZ:9:TYR:HE2	58:BZ:61:LEU:HD13	1.77	0.48
1:CA:174:C:O2'	1:CA:175:C:H5'	2.13	0.48
35:DA:777:A:H2'	35:DA:778:G:H8	1.77	0.48
1:CA:1047:G:H5''	14:CN:4:LYS:HD3	1.96	0.48
24:CY:610:VAL:O	24:CY:610:VAL:HG23	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:938:G:H2'	35:BA:939:G:H8	1.78	0.48
40:BF:150:GLY:HA2	40:BF:172:TRP:CE3	2.49	0.48
58:BZ:92:SER:HB2	58:BZ:93:ASP:H	1.36	0.48
47:DO:108:GLU:N	47:DO:108:GLU:OE2	2.44	0.48
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.78	0.48
41:BG:153:ARG:HB3	41:BG:153:ARG:HH11	1.79	0.48
24:CY:519:ARG:NH1	24:CY:678:GLU:N	2.54	0.48
40:BF:206:ILE:HG22	40:BF:207:GLY:H	1.78	0.48
46:DN:3:THR:CG2	46:DN:5:VAL:HG23	2.42	0.48
46:DN:9:VAL:HG12	46:DN:10:GLU:H	1.77	0.48
38:DD:39:LYS:HB2	38:DD:62:TYR:HB2	1.95	0.48
31:B6:10:LEU:HB3	33:B8:34:TRP:HD1	1.78	0.48
40:DF:170:LEU:HD22	40:DF:170:LEU:N	2.28	0.48
35:BA:322:A:P	40:BF:169:ASN:HD22	2.37	0.48
35:BA:1899:G:N2	35:BA:1902:C:C4	2.80	0.48
35:BA:1081:U:H4'	44:BK:117:THR:CG2	2.44	0.48
35:DA:2229:C:O2'	35:DA:2230:G:H5'	2.13	0.48
41:BG:133:LEU:CD1	41:BG:157:ILE:HB	2.43	0.48
24:CY:74:TRP:CD1	24:CY:273:LEU:HB3	2.49	0.48
31:B6:15:GLU:O	31:B6:16:CYS:O	2.30	0.48
31:D6:42:TRP:NE1	35:DA:643:A:OP1	2.46	0.48
9:AI:26:VAL:CG2	9:AI:61:ALA:HB3	2.39	0.48
35:DA:1081:U:H4'	44:DK:117:THR:CG2	2.42	0.48
44:DK:121:GLU:O	44:DK:125:ARG:HG3	2.14	0.48
53:BU:10:ARG:O	53:BU:12:ARG:N	2.47	0.48
35:DA:25:U:H2'	35:DA:26:G:O4'	2.13	0.48
46:BN:15:LEU:HD23	46:BN:53:VAL:HB	1.94	0.48
35:DA:2309:A:C2'	35:DA:2310:A:H5''	2.43	0.48
48:DP:101:VAL:HG12	48:DP:106:LEU:CB	2.41	0.48
35:BA:636:G:H2'	48:BP:115:LEU:HD12	1.95	0.48
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.28	0.48
29:D4:2:LYS:HB2	36:DB:40:U:C4	2.47	0.48
35:BA:2320:A:C2	35:BA:2333:A:C8	3.01	0.48
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.49	0.48
58:DZ:16:SER:OG	58:DZ:17:ALA:N	2.46	0.48
50:BR:38:VAL:CB	50:BR:39:PRO:HD3	2.36	0.48
2:AB:44:LEU:CD1	2:AB:44:LEU:H	2.12	0.48
6:AF:33:TYR:O	6:AF:34:GLY:C	2.52	0.48
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.35	0.48
35:BA:1285:G:C2'	35:BA:1286:A:H5'	2.38	0.48
42:BH:41:MET:SD	42:BH:53:GLU:N	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:134:ARG:HG3	49:DQ:134:ARG:HH11	1.77	0.48
52:DT:108:ARG:HH11	52:DT:108:ARG:HB2	1.78	0.48
40:BF:174:VAL:HG21	40:BF:189:THR:CG2	2.42	0.48
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.95	0.48
12:AL:27:LEU:CG	12:AL:62:SER:HB2	2.43	0.48
50:DR:21:TYR:OH	50:DR:43:GLU:HG2	2.13	0.48
37:BC:90:ALA:HA	37:BC:155:ARG:HH12	1.77	0.48
1:AA:1124:G:C5'	10:AJ:35:SER:HB2	2.43	0.48
1:CA:624:C:H4'	16:CP:10:GLY:C	2.33	0.48
1:AA:1030:C:N4	1:AA:1032:G:C2	2.82	0.48
42:BH:144:VAL:HA	42:BH:147:ASN:HB2	1.94	0.48
35:BA:278:A:C2	35:BA:279:C:C2	3.01	0.48
35:BA:1275:A:C4	50:BR:16:HIS:ND1	2.81	0.48
56:DX:70:LEU:C	56:DX:70:LEU:HD23	2.33	0.48
35:BA:588:U:H2'	35:BA:589:C:C6	2.47	0.48
4:CD:159:ARG:O	4:CD:163:GLU:N	2.46	0.48
12:CL:8:ASN:O	12:CL:12:ARG:HG3	2.13	0.48
24:AY:646:PHE:O	24:AY:647:VAL:HG13	2.13	0.48
58:BZ:29:TYR:HA	58:BZ:33:LEU:O	2.13	0.48
1:AA:779:C:H2'	1:AA:780:A:O4'	2.13	0.48
24:CY:315:LYS:NZ	24:CY:317:MET:HG2	2.27	0.48
37:DC:74:ARG:N	37:DC:112:ASP:HB2	2.27	0.48
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.65	0.48
35:BA:177:G:H3'	35:BA:178:G:H8	1.78	0.48
35:DA:900:A:C8	35:DA:900:A:H5'	2.44	0.48
35:DA:465:G:H2'	35:DA:466:A:C8	2.49	0.48
58:BZ:17:ALA:HA	58:BZ:20:ARG:HG2	1.94	0.48
35:DA:229:A:OP1	35:DA:229:A:H8	1.95	0.48
35:BA:1719:G:O2'	35:BA:1720:U:H5'	2.13	0.48
35:BA:1210:A:H5''	35:BA:1212:G:O4'	2.13	0.48
35:BA:453:C:H4'	35:BA:472:A:N6	2.29	0.48
37:DC:65:LEU:HD11	37:DC:162:ILE:HD13	1.96	0.48
20:AT:33:ILE:HD13	20:AT:63:ILE:HA	1.94	0.48
24:CY:580:MET:O	24:CY:580:MET:HG2	2.12	0.48
35:DA:1930:G:C2'	35:DA:1931:U:OP2	2.61	0.48
35:DA:537:C:O5'	35:DA:537:C:H6	1.96	0.48
1:CA:505:G:H5'	1:CA:534:U:H2'	1.96	0.48
10:CJ:94:VAL:CG1	10:CJ:95:GLU:N	2.76	0.48
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.94	0.48
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.48	0.48
1:AA:819:A:H4'	1:AA:820:U:OP2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:129:SER:C	58:BZ:131:ARG:N	2.64	0.48
1:AA:603:U:H2'	1:AA:604:G:H8	1.77	0.48
1:CA:554:C:H2'	1:CA:555:C:C6	2.49	0.48
35:DA:1666:G:O3'	47:DO:6:THR:HG23	2.13	0.48
36:DB:57:A:C4	41:DG:29:TRP:HB2	2.49	0.48
9:AI:56:LEU:HD23	9:AI:56:LEU:C	2.33	0.48
40:DF:41:LEU:HD23	40:DF:44:ARG:HE	1.79	0.48
38:BD:165:ILE:HD13	38:BD:175:LEU:HD21	1.95	0.48
1:AA:858:G:O2'	1:AA:859:A:H5''	2.13	0.48
12:CL:51:ALA:O	12:CL:52:LEU:HD23	2.13	0.48
35:BA:2352:A:H2'	35:BA:2353:G:H5'	1.95	0.48
3:CC:69:HIS:HA	3:CC:104:GLN:HB2	1.95	0.48
41:BG:34:LEU:HD13	41:BG:99:MET:HE2	1.95	0.48
10:AJ:78:ASN:C	10:AJ:79:ARG:NH1	2.67	0.48
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.76	0.48
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.97	0.48
10:CJ:4:ILE:HB	10:CJ:74:ILE:HG13	1.95	0.48
53:DU:47:TYR:O	53:DU:51:LYS:HG2	2.13	0.48
53:DU:82:GLY:O	53:DU:84:LYS:N	2.46	0.48
53:BU:52:ARG:O	53:BU:55:ARG:HG2	2.13	0.48
61:AY:702:FUA:C1	61:AY:702:FUA:O1	2.60	0.48
38:DD:35:LYS:NZ	38:DD:35:LYS:HB3	2.28	0.48
31:B6:11:LEU:HD23	31:B6:51:GLU:CG	2.44	0.48
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.95	0.48
33:D8:55:ALA:O	33:D8:59:LYS:HE2	2.12	0.48
24:CY:164:MET:HG3	24:CY:259:PHE:CZ	2.49	0.48
1:AA:1147:C:O2'	9:AI:16:ARG:HD2	2.14	0.48
1:CA:703:G:C2'	1:CA:704:A:OP2	2.61	0.48
33:D8:4:MET:CE	33:D8:61:LEU:HD22	2.44	0.48
48:BP:85:LEU:HA	48:BP:88:LEU:HB3	1.96	0.48
39:DE:51:PHE:CD1	39:DE:52:LEU:HD12	2.48	0.48
39:DE:76:ARG:O	39:DE:77:ILE:O	2.32	0.48
35:DA:1141:U:OP2	46:DN:63:THR:OG1	2.22	0.48
13:AM:116:THR:CG2	13:AM:117:VAL:N	2.76	0.48
57:DY:29:GLU:N	57:DY:29:GLU:OE1	2.46	0.48
49:BQ:60:ARG:CZ	49:BQ:60:ARG:HB2	2.43	0.48
24:AY:518:PRO:O	24:AY:520:GLY:N	2.46	0.48
1:CA:1343:G:H1'	9:CI:121:ARG:NH1	2.28	0.48
9:AI:5:TYR:HD2	9:AI:17:VAL:O	1.96	0.48
10:AJ:63:PHE:HA	14:AN:59:ALA:CB	2.43	0.48
35:BA:2389:G:C5'	35:BA:2390:U:H5'	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:36:LEU:HD12	55:DW:48:ALA:HA	1.96	0.48
7:AG:5:ARG:N	7:AG:5:ARG:HD2	2.28	0.48
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.49	0.48
14:AN:60:SER:O	14:AN:61:TRP:HB3	2.14	0.48
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.95	0.48
50:DR:12:ARG:HB3	50:DR:16:HIS:HD2	1.79	0.48
36:DB:15:A:C3'	36:DB:16:G:H5'	2.42	0.48
49:BQ:62:GLY:CA	58:BZ:116:VAL:HG21	2.43	0.48
15:AO:55:GLY:HA2	15:AO:58:MET:CE	2.41	0.48
1:AA:1345:U:OP1	9:AI:120:ARG:NH1	2.46	0.48
52:BT:75:ILE:N	52:BT:75:ILE:CD1	2.76	0.48
36:BB:20:C:C2'	36:BB:21:G:C5'	2.91	0.48
47:DO:9:GLU:O	47:DO:83:ALA:HA	2.13	0.48
39:DE:170:LEU:H	39:DE:170:LEU:CD1	2.25	0.48
1:CA:1459:C:H2'	1:CA:1460:A:H8	1.75	0.48
51:BS:58:LEU:CD1	51:BS:59:LYS:H	2.26	0.48
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.94	0.48
35:DA:271(Z):C:H1'	35:DA:272(C):G:H1'	1.96	0.48
24:CY:539:ILE:O	24:CY:540:PRO:C	2.52	0.48
3:AC:115:LEU:O	3:AC:116:VAL:C	2.51	0.48
35:DA:1169:G:C2	35:DA:1181:C:N3	2.81	0.48
35:DA:453:C:H4'	35:DA:472:A:N6	2.28	0.48
35:BA:654(O):G:H2'	35:BA:654(P):C:C6	2.48	0.48
35:BA:654(P):C:H2'	35:BA:654(Q):C:C5'	2.44	0.48
1:CA:404:U:H2'	1:CA:405:U:C6	2.48	0.48
41:DG:181:ARG:HH11	41:DG:181:ARG:CG	2.26	0.48
35:BA:1972:A:H2'	35:BA:1973:G:C8	2.47	0.48
11:AK:29:ILE:HB	11:AK:44:SER:CB	2.44	0.48
35:DA:445:C:O2'	35:DA:446:G:H5'	2.13	0.48
1:CA:78:G:H1	1:CA:91:C:N4	2.11	0.48
58:BZ:10:ARG:NH2	58:BZ:26:GLY:O	2.45	0.48
24:AY:549:ALA:HB2	24:AY:587:SER:OG	2.13	0.48
21:AU:10:ARG:O	21:AU:13:ILE:N	2.46	0.48
38:DD:96:HIS:CE1	38:DD:102:LYS:HE2	2.48	0.48
44:DK:88:ALA:O	44:DK:90:LYS:N	2.44	0.48
35:DA:2135:A:H2'	35:DA:2136:C:O4'	2.13	0.48
1:AA:948:C:H2'	1:AA:949:A:H8	1.78	0.48
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.13	0.48
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.47	0.48
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.79	0.48
35:BA:2539:C:O2	35:BA:2539:C:H2'	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.11	0.48
18:AR:88:LYS:C	18:AR:88:LYS:HD3	2.34	0.48
37:DC:196:ALA:O	37:DC:199:ALA:HB3	2.13	0.48
41:BG:7:LEU:HB3	41:BG:100:TRP:CE3	2.48	0.48
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.13	0.48
4:CD:8:VAL:C	4:CD:10:ARG:H	2.14	0.48
35:DA:1045:A:N3	35:DA:1047:G:N2	2.61	0.48
24:CY:453:GLY:HA3	24:CY:459:LEU:CD2	2.43	0.48
24:AY:250:THR:O	24:AY:253:LEU:N	2.35	0.48
53:BU:112:ARG:CG	53:BU:112:ARG:HH11	2.26	0.48
35:BA:1748:G:C8	35:BA:1748:G:H5'	2.40	0.48
48:BP:67:MET:C	48:BP:68:GLN:HG3	2.33	0.48
1:CA:1316:G:H4'	14:CN:18:VAL:HG12	1.95	0.48
38:BD:35:LYS:HD2	38:BD:36:PRO:HA	1.93	0.48
40:DF:179:GLU:C	40:DF:181:LEU:H	2.16	0.48
51:BS:12:PHE:CD1	51:BS:12:PHE:C	2.87	0.48
41:DG:51:ARG:NH1	41:DG:53:LEU:HD21	2.28	0.48
58:BZ:5:LEU:HB3	58:BZ:59:LEU:HD23	1.95	0.48
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.94	0.48
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.41	0.48
58:DZ:109:ALA:O	58:DZ:111:VAL:N	2.47	0.48
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.61	0.48
33:D8:4:MET:HE1	33:D8:61:LEU:HD22	1.95	0.48
2:CB:51:LEU:CD2	2:CB:201:ILE:HG23	2.43	0.48
30:D5:56:LYS:O	30:D5:57:VAL:O	2.31	0.48
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.27	0.48
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.95	0.48
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.35	0.48
54:BV:19:LYS:HE2	54:BV:19:LYS:HA	1.96	0.48
1:CA:1325:C:C2	1:CA:1326:C:C5	3.01	0.48
55:BW:6:ILE:HG13	55:BW:104:THR:HG23	1.95	0.48
50:BR:100:LEU:N	50:BR:100:LEU:HD13	2.28	0.48
52:BT:57:PHE:O	52:BT:58:ASN:C	2.50	0.48
42:DH:144:VAL:HA	42:DH:147:ASN:HB2	1.95	0.48
48:DP:46:LYS:HG2	48:DP:52:GLU:HG2	1.96	0.48
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.13	0.48
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.32	0.48
48:BP:77:ARG:HB2	48:BP:78:PRO:CD	2.40	0.48
12:CL:27:LEU:CG	12:CL:62:SER:HB2	2.43	0.48
14:CN:60:SER:O	14:CN:61:TRP:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:6:THR:H	12:CL:9:GLN:NE2	2.12	0.48
35:DA:1052:C:O2'	35:DA:1053:C:O5'	2.32	0.48
1:AA:1122:U:O2'	1:AA:1123:A:H5'	2.13	0.48
1:AA:1123:A:O3'	10:AJ:36:GLY:HA3	2.14	0.48
1:CA:177:C:H2'	1:CA:178:C:H6	1.79	0.48
15:CO:43:LEU:CD1	15:CO:56:LEU:HD22	2.44	0.48
24:CY:73:PHE:HZ	24:CY:78:ARG:NH2	2.11	0.48
1:CA:1030(C):G:H2'	1:CA:1030(D):A:C8	2.47	0.48
26:D1:6:GLU:OE1	26:D1:61:ARG:N	2.46	0.48
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.77	0.48
49:DQ:37:LEU:HD12	49:DQ:128:LYS:HB3	1.96	0.48
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.22	0.48
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.14	0.48
28:D3:46:ASN:O	28:D3:49:LYS:N	2.47	0.48
36:BB:81:G:C2	36:BB:82:G:N7	2.82	0.48
35:DA:781:A:H2'	35:DA:1777:U:O2'	2.13	0.48
35:DA:1100:C:O2	35:DA:1100:C:H2'	2.14	0.48
35:DA:733:G:C6	35:DA:761:A:N7	2.81	0.48
35:BA:900:A:H5'	35:BA:900:A:C8	2.44	0.48
39:BE:170:LEU:H	39:BE:170:LEU:CD1	2.24	0.48
18:CR:87:ARG:CB	18:CR:87:ARG:HH11	2.26	0.48
16:CP:67:THR:HB	16:CP:70:ALA:HB2	1.96	0.48
28:D3:28:LEU:CD2	28:D3:35:ARG:HD2	2.44	0.48
1:AA:60:A:C5'	1:AA:331:G:H22	2.26	0.48
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.13	0.48
24:CY:652:MET:HE2	24:CY:655:TYR:HB2	1.96	0.48
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.48	0.48
35:BA:1362:C:H2'	35:BA:1363:C:H6	1.78	0.48
36:DB:54:G:H2'	36:DB:55:U:H6	1.78	0.48
24:CY:538:TYR:CD1	24:CY:579:GLU:HA	2.49	0.48
38:DD:213:ARG:C	38:DD:215:LEU:N	2.66	0.48
13:CM:74:VAL:CA	13:CM:77:ASN:HD22	2.27	0.48
54:DV:2:PHE:O	54:DV:3:ALA:CB	2.62	0.48
6:CF:42:GLU:C	6:CF:44:GLY:N	2.67	0.48
35:DA:552:G:O2'	35:DA:553:G:H5'	2.13	0.48
35:DA:245:G:H5'	48:DP:73:GLY:HA2	1.94	0.48
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.46	0.48
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.13	0.48
50:DR:51:LEU:HD12	50:DR:51:LEU:H	1.78	0.48
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.96	0.48
35:BA:1630:G:C2	35:BA:1637:A:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:155:C:H2'	1:AA:156:G:H8	1.78	0.48
35:DA:487:C:H1'	55:DW:53:SER:HA	1.96	0.48
47:BO:88:ASN:C	47:BO:90:GLN:H	2.17	0.48
35:DA:350:U:H2'	35:DA:351:G:O4'	2.14	0.48
1:AA:771:G:H2'	1:AA:772:U:C6	2.48	0.48
35:DA:1270:C:H5''	35:DA:1271:G:O5'	2.14	0.48
40:DF:150:GLY:HA2	40:DF:172:TRP:CE3	2.48	0.48
1:AA:967:C:H2'	1:AA:968:A:C8	2.48	0.48
35:BA:325:G:O2'	35:BA:326:G:H5'	2.13	0.48
1:CA:967:C:H2'	1:CA:968:A:C8	2.49	0.48
41:BG:53:LEU:HD22	41:BG:53:LEU:N	2.29	0.48
41:BG:82:LEU:HD21	41:BG:87:PRO:HG3	1.95	0.48
35:BA:769:G:H5'	35:BA:1379:A:N6	2.28	0.48
1:AA:542:G:H5'	4:AD:41:GLY:HA2	1.96	0.48
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.13	0.48
24:AY:170:ARG:HH22	24:AY:208:GLN:HE22	1.62	0.48
24:AY:17:ILE:N	24:AY:17:ILE:CD1	2.77	0.48
53:BU:113:ALA:O	53:BU:115:ALA:N	2.46	0.48
53:BU:49:HIS:O	53:BU:52:ARG:HB2	2.14	0.48
53:BU:95:LEU:O	53:BU:98:LEU:HG	2.13	0.48
33:B8:33:ASN:ND2	33:B8:33:ASN:N	2.41	0.48
33:B8:50:LEU:C	33:B8:53:PRO:CD	2.82	0.48
19:CS:5:LEU:HD12	19:CS:8:GLY:C	2.34	0.48
35:DA:272(G):C:C3'	35:DA:272(H):C:H5''	2.44	0.48
57:BY:31:LEU:HD23	57:BY:36:ALA:H	1.79	0.48
33:D8:51:ALA:HA	33:D8:54:GLU:CD	2.34	0.48
48:DP:64:LYS:C	48:DP:66:GLY:N	2.66	0.48
41:DG:55:LYS:C	41:DG:57:ALA:H	2.16	0.48
57:BY:95:LYS:HD3	57:BY:100:ALA:CB	2.44	0.48
50:DR:87:TYR:C	50:DR:89:ASP:N	2.65	0.48
35:BA:2293:C:OP1	51:BS:92:TYR:OH	2.31	0.48
51:BS:106:ARG:O	51:BS:107:GLU:HB2	2.13	0.48
51:BS:70:GLY:C	51:BS:72:ALA:N	2.67	0.48
35:DA:2369:A:H2'	35:DA:2370:G:H8	1.79	0.48
49:DQ:52:VAL:HG12	49:DQ:53:ALA:N	2.28	0.48
12:AL:75:HIS:CD2	12:AL:77:LEU:HD12	2.47	0.48
35:BA:2585:U:HO2'	35:BA:2586:C:H5'	1.75	0.48
48:DP:106:LEU:HD11	48:DP:112:LEU:HD23	1.94	0.48
48:BP:112:LEU:N	48:BP:128:HIS:HD2	2.12	0.48
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.95	0.48
35:DA:2754:U:H2'	35:DA:2756:U:OP1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:108:SER:O	39:BE:162:ALA:HA	2.14	0.48
35:BA:1141:U:H1'	35:BA:1142(A):A:C2	2.48	0.48
3:AC:84:ILE:O	3:AC:84:ILE:HG12	2.14	0.48
27:D2:7:ARG:HG3	27:D2:7:ARG:HH11	1.79	0.48
24:AY:416:LYS:NZ	24:AY:417:THR:HG23	2.29	0.48
36:BB:91:C:H5'	49:BQ:17:LEU:O	2.13	0.48
49:BQ:17:LEU:C	49:BQ:18:LYS:HD2	2.34	0.48
52:DT:11:GLU:O	52:DT:13:ARG:N	2.37	0.48
39:BE:177:PRO:HG2	39:BE:178:GLU:H	1.78	0.48
52:DT:102:ILE:HG13	52:DT:103:ARG:N	2.28	0.48
24:AY:351:ARG:O	24:AY:351:ARG:HG3	2.13	0.48
27:D2:52:ASP:O	27:D2:53:LEU:C	2.52	0.48
22:CW:11:A:O2'	22:CW:12:G:H5'	2.14	0.48
38:BD:26:LYS:N	38:BD:26:LYS:HE2	2.27	0.48
38:BD:91:ARG:O	38:BD:107:ALA:HB3	2.14	0.48
58:BZ:71:VAL:CG1	58:BZ:74:VAL:HG23	2.43	0.48
10:AJ:8:LEU:HB2	10:AJ:70:ARG:O	2.13	0.48
35:BA:654(S):G:C5	35:BA:654(T):C:H1'	2.48	0.48
35:DA:1186:G:C2'	35:DA:1187:G:H5'	2.43	0.48
24:AY:512:ILE:N	24:AY:512:ILE:CD1	2.74	0.48
55:BW:24:ILE:HG21	55:BW:36:LEU:HD21	1.96	0.48
2:CB:233:SER:CB	2:CB:234:PRO:HD2	2.44	0.48
24:AY:128:TYR:O	24:AY:129:LYS:CB	2.60	0.48
28:D3:44:ARG:O	28:D3:48:GLU:HG2	2.14	0.48
32:B7:27:GLY:HA2	32:B7:30:VAL:HG23	1.96	0.48
13:AM:3:ARG:HB2	29:B4:34:GLU:HG2	1.94	0.48
12:CL:86:ARG:O	12:CL:86:ARG:HG2	2.14	0.48
35:DA:578:A:H5'	35:DA:1254:A:OP1	2.14	0.48
25:D0:5:LYS:HB3	25:D0:5:LYS:NZ	2.28	0.48
35:BA:849:A:C8	35:BA:850:C:C5	3.02	0.48
35:BA:958:U:C3'	35:BA:958:U:C6	2.96	0.48
27:D2:65:ASN:HD21	35:DA:112:U:C5'	2.27	0.48
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.13	0.48
37:BC:115:VAL:CG1	37:BC:145:THR:HG23	2.42	0.48
24:AY:539:ILE:HD12	24:AY:567:LEU:HD21	1.96	0.48
35:DA:385:C:O2	48:DP:71:VAL:HG21	2.14	0.48
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.49	0.48
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.13	0.48
58:BZ:130:PRO:O	58:BZ:133:ILE:CD1	2.61	0.48
35:BA:1328:G:H2'	35:BA:1330:C:C4	2.49	0.48
49:BQ:68:ILE:HG23	49:BQ:103:MET:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:709:U:H2'	35:BA:710:G:H8	1.77	0.48
1:CA:819:A:H4'	1:CA:820:U:OP2	2.14	0.48
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.79	0.48
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.13	0.48
35:BA:1909:C:O2'	35:BA:1910:G:H5'	2.14	0.48
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.13	0.48
1:CA:1010:G:N1	1:CA:1020:U:H1'	2.28	0.48
35:DA:1909:C:O2'	35:DA:1910:G:H5'	2.13	0.48
1:AA:424:G:O2'	1:AA:425:G:H5'	2.13	0.48
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.95	0.48
35:BA:1666:G:O3'	47:BO:6:THR:HG23	2.14	0.48
39:DE:108:SER:O	39:DE:162:ALA:HA	2.13	0.48
35:BA:640:C:C4	35:BA:641:C:N4	2.82	0.48
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.12	0.48
4:AD:43:HIS:O	4:AD:45:GLN:N	2.47	0.48
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.95	0.48
48:BP:17:LYS:HG2	48:BP:17:LYS:O	2.13	0.48
42:DH:156:ALA:C	42:DH:158:HIS:H	2.17	0.48
40:DF:25:PRO:HB3	40:DF:119:ARG:HB2	1.96	0.48
41:BG:100:TRP:O	41:BG:104:GLU:HB2	2.12	0.48
1:AA:509:A:N1	1:AA:510:A:C2	2.82	0.48
22:AW:15:G:H2'	22:AW:60:A:N1	2.28	0.48
31:B6:7:ILE:N	31:B6:7:ILE:CD1	2.77	0.48
48:BP:64:LYS:C	48:BP:66:GLY:N	2.67	0.48
58:DZ:7:ALA:HA	58:DZ:39:VAL:HG12	1.95	0.48
35:DA:272(H):C:C2'	35:DA:272(I):U:H5''	2.43	0.48
58:BZ:56:VAL:C	58:BZ:57:ILE:HD12	2.34	0.48
35:BA:303:U:H2'	35:BA:304:G:H8	1.76	0.48
31:D6:12:GLU:HB3	31:D6:23:THR:HG22	1.96	0.48
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.44	0.48
10:CJ:82:ILE:O	10:CJ:86:MET:CB	2.61	0.48
52:BT:66:VAL:HA	52:BT:71:GLY:HA2	1.94	0.48
40:BF:168:ARG:HG3	40:BF:175:THR:HB	1.95	0.48
24:CY:112:GLN:HG3	24:CY:115:GLU:HA	1.96	0.48
24:CY:181:LEU:CD1	24:CY:242:LEU:HD13	2.44	0.48
31:B6:19:ARG:O	31:B6:20:ASN:C	2.51	0.48
35:DA:661:C:H4'	48:DP:18:ARG:HG2	1.95	0.48
49:DQ:108:GLY:O	49:DQ:109:VAL:CG2	2.62	0.48
48:BP:16:ARG:CB	48:BP:16:ARG:HH11	2.25	0.48
28:B3:31:LEU:O	28:B3:32:GLN:CB	2.62	0.48
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:114:ILE:H	47:BO:114:ILE:CD1	2.21	0.48
24:AY:451:ILE:O	24:AY:451:ILE:HG23	2.13	0.48
2:CB:77:ALA:O	2:CB:81:VAL:HG23	2.14	0.48
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.13	0.48
1:AA:703:G:C2'	1:AA:704:A:OP2	2.61	0.48
3:AC:79:ARG:NH1	3:AC:79:ARG:HB2	2.14	0.48
52:DT:89:VAL:C	52:DT:91:ARG:H	2.17	0.48
1:AA:973:G:O4'	10:AJ:55:LYS:HE2	2.13	0.48
30:B5:36:CYS:SG	30:B5:36:CYS:O	2.72	0.48
3:AC:82:GLU:OE2	3:AC:82:GLU:N	2.47	0.48
35:BA:1598:C:H2'	35:BA:1599:C:C6	2.49	0.48
2:AB:211:ILE:HG22	2:AB:215:LEU:HD23	1.95	0.48
27:D2:7:ARG:HG3	27:D2:7:ARG:NH1	2.27	0.48
29:D4:51:ASP:OD2	29:D4:52:THR:N	2.47	0.48
35:BA:544:G:H21	35:BA:547:A:H2'	1.79	0.48
25:D0:47:PRO:HB3	25:D0:51:VAL:O	2.13	0.48
35:DA:614(A):U:O2'	35:DA:614(B):G:H5'	2.13	0.48
42:BH:17:VAL:CG1	42:BH:50:VAL:HG21	2.38	0.48
52:DT:57:PHE:O	52:DT:58:ASN:C	2.51	0.48
52:DT:6:LEU:O	52:DT:7:ILE:C	2.51	0.48
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	2.29	0.48
24:AY:504:ARG:O	24:AY:506:GLN:N	2.47	0.48
42:DH:41:MET:SD	42:DH:53:GLU:N	2.86	0.48
35:BA:2779:U:H5'	35:BA:2780:G:O5'	2.14	0.48
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.28	0.48
20:AT:103:GLY:O	20:AT:104:LEU:C	2.52	0.48
1:AA:1239:A:C2'	1:AA:1298:C:N4	2.74	0.48
15:CO:43:LEU:C	15:CO:45:VAL:H	2.17	0.48
4:AD:62:GLN:O	4:AD:66:ARG:HB2	2.13	0.48
47:DO:32:TYR:CD1	47:DO:32:TYR:N	2.80	0.48
28:D3:38:GLU:HB3	28:D3:43:ILE:HG13	1.94	0.48
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.48
9:CI:40:LEU:C	9:CI:42:ARG:H	2.16	0.48
21:AU:3:LYS:HB3	21:AU:14:TRP:CD1	2.49	0.48
53:BU:26:GLY:C	53:BU:28:ARG:N	2.67	0.48
1:CA:1133:G:C4	1:CA:1142:G:N2	2.81	0.48
27:B2:24:LEU:HD23	27:B2:24:LEU:C	2.34	0.48
22:AV:3:C:N4	22:AV:70:G:H1	2.11	0.48
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.13	0.48
32:B7:5:TRP:CH2	35:BA:686:G:N7	2.81	0.48
35:DA:2406:U:N3	48:DP:72:PRO:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:140:ARG:HG3	3:CC:140:ARG:HH11	1.78	0.48
52:BT:35:LYS:HZ3	52:BT:41:ARG:NH1	2.10	0.48
35:BA:484:C:O2'	35:BA:485:C:H5'	2.14	0.48
44:DK:39:LYS:O	44:DK:43:ALA:HB2	2.13	0.48
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.87	0.48
38:BD:227:ASN:O	38:BD:230:ASP:N	2.44	0.48
35:DA:1675:C:O2	39:DE:129:HIS:HA	2.13	0.48
39:DE:16:ARG:NH1	39:DE:171:GLU:OE2	2.47	0.48
54:DV:2:PHE:HB3	54:DV:41:GLY:C	2.34	0.48
35:BA:180:G:N2	35:BA:214:G:O6	2.47	0.48
4:AD:108:LEU:HD23	4:AD:110:PHE:CZ	2.49	0.48
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.13	0.48
8:AH:6:ILE:CD1	8:AH:6:ILE:H	2.27	0.48
43:DJ:148:UNK:C	43:DJ:150:UNK:N	2.73	0.48
58:DZ:72:ARG:HD3	58:DZ:72:ARG:HA	1.72	0.48
7:AG:69:VAL:HG21	7:AG:104:LEU:CD2	2.43	0.48
14:AN:36:PHE:CD1	14:AN:36:PHE:C	2.86	0.48
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.14	0.48
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.48
34:D9:2:LYS:HD3	35:DA:2526:G:N3	2.29	0.48
38:DD:125:ILE:O	38:DD:125:ILE:HG22	2.13	0.48
35:BA:667:U:H2'	35:BA:668:G:O4'	2.13	0.48
35:DA:1945:G:H2'	35:DA:1945:G:N3	2.29	0.48
51:BS:11:LYS:HD2	51:BS:11:LYS:N	2.29	0.48
35:BA:2691:C:H6	35:BA:2691:C:H5'	1.78	0.48
35:BA:1983:C:O2'	35:BA:1984:G:H5'	2.13	0.48
35:DA:1956:U:C2'	35:DA:1957:C:H5'	2.44	0.48
35:DA:2531:A:H5''	42:DH:157:TYR:CZ	2.49	0.48
41:BG:100:TRP:O	41:BG:101:ILE:C	2.52	0.48
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.42	0.48
37:BC:150:ILE:O	37:BC:154:ILE:HG13	2.14	0.48
1:CA:1489:G:C3'	1:CA:1490:C:H5''	2.42	0.48
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.27	0.48
24:AY:21:ILE:HG13	35:BA:2661:G:C5'	2.40	0.48
9:CI:59:PHE:N	9:CI:59:PHE:CD1	2.81	0.48
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.53	0.48
40:BF:25:PRO:HB3	40:BF:119:ARG:HB2	1.95	0.48
53:DU:52:ARG:O	53:DU:55:ARG:HG2	2.13	0.48
46:BN:3:THR:CG2	46:BN:5:VAL:HG23	2.44	0.48
9:AI:20:ARG:O	9:AI:59:PHE:HA	2.14	0.48
48:BP:29:LYS:HB3	48:BP:34:GLY:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:41:LEU:O	58:DZ:43:GLU:N	2.47	0.48
41:DG:85:GLY:C	41:DG:87:PRO:CD	2.81	0.48
24:CY:282:SER:C	24:CY:284:LEU:H	2.17	0.48
31:B6:15:GLU:HG2	31:B6:16:CYS:O	2.13	0.48
51:BS:85:VAL:O	51:BS:106:ARG:HG2	2.14	0.48
9:AI:63:ILE:HG22	9:AI:64:THR:N	2.29	0.48
3:AC:62:ASP:O	3:AC:64:VAL:N	2.45	0.48
35:DA:946:G:H2'	35:DA:947:G:H8	1.75	0.48
44:DK:98:ARG:HD2	44:DK:139:VAL:HG22	1.96	0.48
40:BF:81:PRO:C	40:BF:83:PHE:H	2.17	0.48
48:DP:146:VAL:CG2	48:DP:147:LEU:H	2.11	0.48
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.49	0.48
39:DE:30:PRO:O	39:DE:32:PRO:HD3	2.14	0.48
35:DA:2260:C:H2'	35:DA:2261:C:C6	2.49	0.48
39:BE:36:ARG:NH2	39:BE:88:GLY:N	2.61	0.48
51:DS:25:ARG:CG	51:DS:26:LEU:N	2.77	0.48
35:DA:2867:G:N7	52:DT:23:ARG:NH1	2.62	0.48
41:DG:102:PHE:C	41:DG:104:GLU:N	2.67	0.48
24:AY:334:THR:CG2	24:AY:370:LYS:HG2	2.42	0.48
29:D4:56:VAL:CG1	29:D4:56:VAL:O	2.56	0.48
35:DA:2245:U:C5'	35:DA:2246:G:H5'	2.35	0.48
25:D0:43:THR:N	35:DA:2331:G:H4'	2.23	0.48
41:DG:83:ARG:HD2	41:DG:83:ARG:H	1.79	0.48
29:B4:22:ILE:H	29:B4:22:ILE:HD12	1.79	0.48
35:BA:1609:A:H1'	35:BA:1616:A:H1'	1.96	0.48
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.14	0.48
35:BA:1654:A:C2	39:BE:113:PHE:HD1	2.32	0.48
38:DD:24:ILE:CD1	38:DD:25:THR:H	2.24	0.48
39:DE:15:PHE:CE2	52:DT:80:SER:HB2	2.49	0.48
51:BS:44:LYS:O	51:BS:46:VAL:HG23	2.14	0.48
35:BA:859:G:N2	35:BA:917:A:OP2	2.27	0.48
35:DA:391:G:O2'	35:DA:392:C:H5'	2.14	0.48
1:AA:1030(C):G:H2'	1:AA:1030(D):A:C8	2.48	0.48
4:CD:58:LEU:HD22	4:CD:59:ARG:NH1	2.28	0.48
24:AY:406:GLU:CB	24:AY:407:PRO:CD	2.92	0.48
1:AA:1134:G:N2	1:AA:1141:C:C2	2.82	0.48
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.95	0.48
52:DT:62:THR:CG2	52:DT:75:ILE:HG13	2.44	0.48
1:CA:489:C:H2'	1:CA:490:G:H8	1.79	0.48
32:B7:4:THR:O	35:BA:687:C:H5'	2.14	0.48
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.14	0.48
46:DN:125:GLY:HA3	46:DN:126:PRO:C	2.33	0.48
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.48	0.48
42:DH:40:GLU:HG3	42:DH:64:LEU:HD13	1.94	0.48
44:DK:37:PHE:C	44:DK:39:LYS:H	2.17	0.48
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.49	0.48
35:BA:492:A:O2'	35:BA:493:G:H5'	2.14	0.48
35:DA:1169:G:N2	35:DA:1181:C:N3	2.62	0.48
36:DB:106:G:H5''	58:DZ:31:ARG:HB3	1.94	0.48
34:B9:11:CYS:O	34:B9:11:CYS:SG	2.72	0.48
37:BC:202:PRO:HB2	37:BC:205:ALA:HB2	1.95	0.48
35:DA:619:G:H3'	35:DA:620:G:H21	1.79	0.48
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.13	0.48
38:BD:81:ALA:HA	38:BD:113:VAL:CG2	2.44	0.48
35:DA:1161:C:H2'	35:DA:1162:G:H8	1.79	0.48
4:AD:119:GLN:HG3	4:AD:123:HIS:NE2	2.29	0.48
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.14	0.48
49:BQ:41:TRP:NE1	49:BQ:96:VAL:HG22	2.28	0.48
17:CQ:94:ASN:O	17:CQ:95:TYR:C	2.52	0.48
35:BA:1629:U:H2'	35:BA:1630:G:C8	2.48	0.48
35:BA:182:A:O2'	35:BA:183:C:H5'	2.13	0.48
57:DY:42:VAL:O	57:DY:65:ALA:N	2.39	0.48
46:DN:115:ARG:HA	46:DN:118:LYS:HE2	1.94	0.48
3:CC:28:GLN:O	3:CC:29:TYR:C	2.51	0.48
24:AY:346:LYS:O	24:AY:347:GLY:C	2.52	0.48
24:CY:97:SER:O	24:CY:100:VAL:HG12	2.12	0.48
38:BD:46:GLN:OE1	38:BD:46:GLN:N	2.46	0.48
37:DC:164:PHE:HB2	37:DC:172:ILE:HD11	1.96	0.48
58:DZ:8:TYR:CD1	58:DZ:8:TYR:N	2.81	0.48
35:BA:2531:A:H5''	42:BH:157:TYR:CZ	2.49	0.48
41:BG:40:ASN:ND2	41:BG:41:GLN:H	2.12	0.48
41:BG:53:LEU:HD22	41:BG:53:LEU:H	1.79	0.48
41:BG:67:LYS:HD3	41:BG:68:PRO:HD2	1.95	0.48
41:BG:71:THR:HG23	41:BG:90:LEU:N	2.29	0.48
24:CY:409:ILE:HD12	24:CY:654:GLY:HA2	1.96	0.48
35:DA:2051:A:H2'	35:DA:2578:G:O5'	2.13	0.48
24:AY:122:TRP:HD1	24:AY:123:ARG:N	2.12	0.48
53:DU:106:PHE:HA	53:DU:109:LEU:HD12	1.96	0.48
53:DU:79:PHE:HE2	53:DU:83:LEU:HD11	1.79	0.48
34:D9:3:VAL:O	34:D9:4:ARG:HB3	2.14	0.48
22:AW:60:A:H2'	22:AW:61:U:C5'	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:21:LYS:HD3	33:B8:48:PHE:CE2	2.49	0.48
16:CP:59:TRP:O	16:CP:62:VAL:HG22	2.13	0.48
35:BA:84:A:H5''	57:BY:9:LYS:HZ3	1.75	0.48
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.14	0.48
38:BD:94:LEU:HD23	38:BD:95:LEU:N	2.29	0.48
24:CY:210:ARG:HG2	24:CY:210:ARG:NH1	2.25	0.48
37:DC:111:PHE:CE1	37:DC:137:LEU:HD13	2.37	0.48
1:CA:1237:C:H5''	1:CA:1238:A:C8	2.49	0.48
47:DO:61:VAL:N	47:DO:87:ILE:HD11	2.29	0.48
39:DE:117:MET:CA	39:DE:122:PHE:H	2.16	0.48
48:DP:83:VAL:HG13	48:DP:83:VAL:O	2.14	0.48
36:DB:40:U:H5''	36:DB:41:U:OP2	2.14	0.48
19:AS:19:VAL:CG1	19:AS:44:MET:HG2	2.43	0.48
35:BA:2723:C:H5''	50:BR:2:ARG:NH1	2.17	0.48
39:BE:51:PHE:CD1	39:BE:52:LEU:HD12	2.48	0.48
3:AC:82:GLU:N	3:AC:82:GLU:CD	2.68	0.48
2:AB:223:ILE:O	2:AB:226:ARG:N	2.44	0.48
1:AA:1325:C:C2	1:AA:1326:C:C5	3.02	0.48
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.79	0.48
46:DN:62:VAL:HG22	46:DN:66:LYS:CG	2.39	0.48
35:DA:1607:C:H5'	35:DA:1608:A:C8	2.49	0.48
52:DT:102:ILE:O	52:DT:106:SER:HB3	2.14	0.48
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.79	0.48
29:B4:21:VAL:O	29:B4:21:VAL:HG12	2.14	0.48
24:AY:154:GLN:CA	24:AY:158:GLY:HA2	2.43	0.48
1:AA:182:U:H3'	1:AA:183:G:C5'	2.44	0.48
1:CA:182:U:H3'	1:CA:183:G:C5'	2.44	0.48
55:DW:24:ILE:HG21	55:DW:36:LEU:HD21	1.95	0.48
35:DA:2463:C:C2'	35:DA:2464:C:H5'	2.43	0.48
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.49	0.48
24:CY:573:HIS:HD2	24:CY:576:ASP:H	1.61	0.48
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.14	0.48
4:AD:165:MET:HE2	4:AD:176:LEU:CD2	2.44	0.48
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.95	0.48
50:DR:12:ARG:HH11	50:DR:12:ARG:CG	2.27	0.48
35:BA:64:A:H2'	35:BA:65:C:O4'	2.14	0.48
1:CA:1164:G:O2'	1:CA:1165:C:H5'	2.14	0.48
35:DA:64:A:H2'	35:DA:65:C:O4'	2.14	0.48
1:CA:1101:A:H4'	1:CA:1102:A:H4'	1.95	0.48
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.43	0.48
15:CO:23:GLY:O	15:CO:24:SER:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:92:ILE:C	42:BH:94:TYR:H	2.12	0.48
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.49	0.48
54:BV:5:VAL:HG23	54:BV:37:VAL:O	2.13	0.48
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.14	0.48
35:BA:1829:A:N3	38:BD:15:PHE:HZ	2.10	0.48
35:BA:1367:A:C2'	35:BA:1368:G:H5'	2.42	0.48
35:BA:999:U:H5''	35:BA:1154:G:O6	2.14	0.48
18:AR:26:LEU:HD21	18:AR:42:ARG:NH1	2.29	0.48
13:CM:63:THR:CG2	13:CM:64:TRP:H	2.24	0.48
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.13	0.48
35:DA:2602:A:H4'	35:DA:2603:G:C5'	2.43	0.48
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.14	0.48
48:DP:124:LYS:HD3	48:DP:143:GLY:CA	2.44	0.48
8:CH:6:ILE:N	8:CH:6:ILE:CD1	2.77	0.48
35:DA:654(P):C:H2'	35:DA:654(Q):C:O4'	2.13	0.48
1:AA:937:A:C2	1:AA:1379:G:O6	2.66	0.48
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.14	0.48
24:AY:523:PHE:CE1	24:AY:550:MET:SD	3.07	0.48
6:AF:15:ASP:C	6:AF:17:SER:H	2.17	0.48
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	1.95	0.48
24:AY:73:PHE:CE2	24:AY:78:ARG:HB2	2.49	0.48
43:DJ:139:UNK:C	43:DJ:141:UNK:N	2.77	0.48
44:BK:18:THR:C	44:BK:20:ALA:H	2.18	0.48
1:CA:170:U:O2'	1:CA:171:A:H5'	2.14	0.48
1:CA:678:U:H2'	1:CA:679:C:C6	2.48	0.48
39:BE:201:THR:C	39:BE:202:LYS:HD2	2.35	0.48
1:AA:582:U:OP1	15:AO:68:ARG:NH2	2.47	0.48
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.47	0.48
42:DH:152:ARG:O	42:DH:153:LYS:C	2.53	0.47
48:DP:7:ARG:HG3	48:DP:7:ARG:HH11	1.79	0.47
41:BG:138:GLN:O	41:BG:144:ILE:HD13	2.14	0.47
35:BA:2051:A:H4'	39:BE:141:ILE:HD13	1.96	0.47
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.14	0.47
24:CY:609:GLU:HB2	24:CY:670:VAL:CG2	2.44	0.47
1:AA:408:A:OP1	4:AD:113:SER:OG	2.29	0.47
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.82	0.47
35:BA:1045:A:N3	35:BA:1047:G:N2	2.62	0.47
24:AY:420:ASP:OD2	24:AY:420:ASP:N	2.45	0.47
24:AY:422:GLU:O	24:AY:425:SER:N	2.47	0.47
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.95	0.47
48:DP:64:LYS:O	48:DP:64:LYS:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	2.39	0.47
1:AA:1318:A:C2'	1:AA:1319:A:H5'	2.43	0.47
24:CY:181:LEU:HD13	24:CY:216:LEU:HD21	1.96	0.47
1:CA:1237:C:H3'	1:CA:1336:C:H41	1.79	0.47
12:AL:17:LYS:HD3	12:AL:18:VAL:N	2.29	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:HB3	1.94	0.47
31:D6:19:ARG:O	31:D6:20:ASN:C	2.52	0.47
24:CY:341:VAL:HG22	24:CY:350:GLU:HB2	1.95	0.47
35:BA:2584:U:O4'	35:BA:2584:U:O2	2.31	0.47
35:DA:651:G:C2'	35:DA:652:C:H5'	2.43	0.47
48:DP:83:VAL:HG13	48:DP:114:ILE:HA	1.96	0.47
35:BA:2206:G:N3	35:BA:2206:G:H3'	2.29	0.47
47:BO:17:ARG:O	47:BO:18:LYS:HG3	2.13	0.47
51:DS:74:ALA:HB2	51:DS:101:LEU:CD2	2.44	0.47
51:DS:74:ALA:HB3	51:DS:103:GLU:HG3	1.95	0.47
1:CA:108:G:N2	1:CA:109:A:C2	2.82	0.47
19:CS:43:GLU:HB2	19:CS:44:MET:SD	2.53	0.47
1:CA:392:G:H2'	1:CA:393:A:C8	2.48	0.47
1:CA:393:A:H5'	1:CA:483:C:O2'	2.14	0.47
39:BE:24:THR:CG2	39:BE:186:GLY:HA2	2.38	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.18	0.47
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.96	0.47
35:DA:1971:A:N3	38:DD:240:ALA:HA	2.29	0.47
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.37	0.47
39:DE:12:THR:O	39:DE:23:VAL:N	2.42	0.47
22:CW:10:G:O2'	22:CW:11:A:H5'	2.14	0.47
35:BA:797:C:P	40:BF:62:ARG:HG3	2.54	0.47
51:DS:97:ARG:O	51:DS:97:ARG:NE	2.47	0.47
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.29	0.47
35:BA:2463:C:C2'	35:BA:2464:C:H5'	2.44	0.47
58:BZ:84:GLU:O	58:BZ:85:HIS:CB	2.55	0.47
35:BA:2170:A:H5''	37:BC:135:ARG:HE	1.79	0.47
20:AT:53:LEU:HB3	20:AT:102:GLY:HA3	1.96	0.47
35:DA:272(D):G:H1	35:DA:364:C:H42	1.62	0.47
51:DS:49:VAL:HG22	51:DS:80:LEU:HD12	1.95	0.47
35:DA:883:G:H2'	35:DA:884:C:O4'	2.14	0.47
1:CA:103:C:H3'	1:CA:104:G:C8	2.40	0.47
46:BN:18:ALA:O	46:BN:21:LYS:HB2	2.14	0.47
25:B0:77:ARG:NH2	35:BA:857:C:H5'	2.25	0.47
35:BA:2453:A:OP1	35:BA:2573:C:H5	1.96	0.47
57:DY:31:LEU:HD23	57:DY:36:ALA:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:74:U:H2'	36:BB:75:G:H5'	1.96	0.47
35:BA:799:G:OP2	35:BA:800:A:H3'	2.13	0.47
1:CA:1152:A:OP1	10:CJ:68:HIS:HD2	1.97	0.47
24:AY:539:ILE:CA	24:AY:542:VAL:HG12	2.44	0.47
48:DP:70:GLN:OE1	48:DP:70:GLN:HA	2.12	0.47
2:AB:111:ARG:NH1	2:AB:111:ARG:HG2	2.29	0.47
48:BP:89:ALA:O	48:BP:121:LYS:HD2	2.15	0.47
1:AA:475:G:O2'	1:AA:476:G:H5'	2.13	0.47
39:BE:16:ARG:NH1	39:BE:171:GLU:OE2	2.47	0.47
35:DA:709:U:H2'	35:DA:710:G:H8	1.77	0.47
41:DG:172:LEU:O	41:DG:176:LEU:HD12	2.14	0.47
35:DA:1064:C:H4'	44:DK:89:HIS:CD2	2.47	0.47
37:BC:225:ILE:HD12	37:BC:225:ILE:O	2.13	0.47
35:DA:654(P):C:H2'	35:DA:654(Q):C:C5'	2.44	0.47
6:AF:42:GLU:C	6:AF:44:GLY:N	2.68	0.47
1:AA:402:G:O2'	1:AA:403:C:H5'	2.14	0.47
35:BA:1472:A:H2'	35:BA:1473:G:C8	2.49	0.47
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.76	0.47
35:BA:41:C:H42	35:BA:437:G:H1	1.62	0.47
1:AA:707:C:H4'	11:AK:20:TYR:CD1	2.49	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:NE2	2.28	0.47
14:CN:36:PHE:CD1	14:CN:36:PHE:C	2.88	0.47
57:BY:56:PRO:O	57:BY:57:GLN:HB2	2.14	0.47
20:AT:96:GLY:O	20:AT:97:ALA:O	2.31	0.47
52:DT:137:LYS:HG2	52:DT:138:ALA:N	2.30	0.47
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.29	0.47
11:CK:29:ILE:HB	11:CK:44:SER:HB2	1.96	0.47
43:BJ:125:UNK:C	43:BJ:127:UNK:N	2.76	0.47
36:BB:53:A:N3	36:BB:53:A:H2'	2.29	0.47
41:BG:114:ILE:O	41:BG:116:ASP:N	2.39	0.47
24:CY:460:GLU:O	24:CY:463:VAL:HB	2.14	0.47
24:AY:125:ALA:C	24:AY:127:LYS:H	2.17	0.47
24:AY:217:VAL:HG22	24:AY:242:LEU:HD21	1.95	0.47
9:CI:20:ARG:O	9:CI:59:PHE:HA	2.13	0.47
53:DU:90:VAL:HG13	54:DV:39:LEU:HG	1.95	0.47
54:DV:38:LEU:HD12	54:DV:56:SER:HA	1.96	0.47
24:AY:9:LEU:C	24:AY:11:ARG:N	2.65	0.47
46:BN:9:VAL:HG12	46:BN:10:GLU:H	1.77	0.47
54:BV:4:ILE:O	54:BV:4:ILE:HG22	2.13	0.47
35:BA:1708:C:O2'	35:BA:1709:U:H5'	2.14	0.47
19:CS:10:PHE:HZ	19:CS:70:LYS:HZ3	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:32:TYR:O	16:CP:32:TYR:CD2	2.62	0.47
35:BA:925:C:C3'	35:BA:926:A:H5''	2.43	0.47
35:DA:2313:C:O2'	35:DA:2314:C:H5'	2.15	0.47
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.79	0.47
3:CC:90:GLU:C	3:CC:93:LYS:HB3	2.34	0.47
24:CY:74:TRP:CE2	24:CY:273:LEU:HB3	2.49	0.47
35:BA:2400:G:N2	35:BA:2417:C:C2	2.82	0.47
49:DQ:55:VAL:HG12	49:DQ:56:ARG:H	1.79	0.47
35:BA:25:U:H2'	35:BA:26:G:O4'	2.13	0.47
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.79	0.47
35:DA:962:G:C2'	35:DA:963:U:H5'	2.43	0.47
53:DU:8:VAL:CG2	53:DU:12:ARG:HE	2.27	0.47
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.78	0.47
48:DP:100:LEU:HD22	48:DP:100:LEU:N	2.29	0.47
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.29	0.47
39:BE:145:LYS:O	39:BE:148:GLY:N	2.47	0.47
10:CJ:54:PHE:O	10:CJ:55:LYS:C	2.53	0.47
27:B2:38:GLN:C	27:B2:40:SER:N	2.67	0.47
35:BA:614:U:H2'	35:BA:614(A):U:O4'	2.14	0.47
1:AA:1225:A:H5''	1:AA:1226:C:OP2	2.14	0.47
2:AB:82:ARG:HH11	2:AB:82:ARG:HG3	1.79	0.47
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.82	0.47
49:BQ:50:ALA:O	49:BQ:51:ARG:C	2.52	0.47
35:DA:1285:G:C2'	35:DA:1286:A:H5'	2.36	0.47
47:DO:19:ILE:HD12	47:DO:41:ALA:CB	2.45	0.47
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.43	0.47
57:BY:61:ILE:CG1	57:BY:62:GLU:N	2.77	0.47
58:BZ:81:ARG:O	58:BZ:81:ARG:HG3	2.14	0.47
25:B0:51:VAL:HG22	25:B0:81:VAL:CG2	2.44	0.47
27:B2:47:ASN:CB	35:BA:95:G:H1'	2.44	0.47
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.34	0.47
35:DA:1050:A:H2'	35:DA:1051:G:O4'	2.14	0.47
1:CA:1444:C:C2	1:CA:1445:C:C5	3.01	0.47
46:DN:65:LYS:CB	46:DN:69:GLN:HG3	2.41	0.47
24:CY:20:HIS:N	24:CY:121:VAL:HG11	2.29	0.47
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.96	0.47
35:DA:2593:U:C2	35:DA:2594:C:C5	3.02	0.47
55:BW:20:VAL:O	55:BW:23:LEU:N	2.46	0.47
24:AY:652:MET:HE2	24:AY:655:TYR:HB2	1.96	0.47
49:BQ:21:THR:CG2	49:BQ:101:ARG:HB2	2.44	0.47
38:DD:77:ALA:HB2	38:DD:97:TYR:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2395:C:C2	35:DA:2396:G:C8	3.02	0.47
32:D7:5:TRP:CH2	35:DA:686:G:N7	2.82	0.47
51:BS:59:LYS:HG2	51:BS:60:GLY:H	1.79	0.47
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.74	0.47
35:BA:385:C:O2	48:BP:71:VAL:HG21	2.14	0.47
35:DA:2735:G:H2'	35:DA:2736:G:C8	2.44	0.47
4:CD:36:ARG:HH11	4:CD:36:ARG:CG	2.27	0.47
24:AY:445:GLU:HA	24:AY:445:GLU:OE1	2.13	0.47
24:AY:315:LYS:HD2	24:AY:317:MET:HG3	1.95	0.47
37:DC:185:LYS:CA	37:DC:185:LYS:HE3	2.44	0.47
35:BA:2860:A:H2'	35:BA:2861:G:H5'	1.95	0.47
35:BA:2704:C:O2'	35:BA:2705:A:H5'	2.14	0.47
1:AA:78:G:H1	1:AA:91:C:N4	2.12	0.47
58:DZ:89:PHE:CE1	58:DZ:96:VAL:HG21	2.48	0.47
1:AA:533:A:OP1	1:AA:533:A:H3'	2.15	0.47
34:B9:16:VAL:HA	34:B9:25:VAL:HG22	1.95	0.47
24:CY:288:PRO:HB3	24:CY:301:ILE:O	2.14	0.47
49:DQ:26:TYR:CE1	49:DQ:140:ALA:HB3	2.49	0.47
1:AA:930:C:O2'	1:AA:931:C:H5'	2.14	0.47
13:AM:72:ALA:O	13:AM:73:GLU:C	2.53	0.47
30:B5:22:HIS:CE1	35:BA:2624:G:H1'	2.49	0.47
35:DA:1445(A):C:H5'	35:DA:1446:C:OP2	2.14	0.47
38:DD:46:GLN:OE1	38:DD:46:GLN:N	2.48	0.47
41:BG:41:GLN:HB3	41:BG:43:LEU:CD2	2.44	0.47
24:CY:91:THR:O	24:CY:92:ILE:C	2.52	0.47
24:AY:139:MET:HE1	24:AY:146:LEU:HB2	1.96	0.47
24:AY:259:PHE:N	24:AY:259:PHE:CD1	2.81	0.47
58:DZ:166:SER:CB	58:DZ:168:GLU:N	2.76	0.47
53:DU:64:ARG:O	53:DU:65:ILE:C	2.53	0.47
53:DU:95:LEU:O	53:DU:98:LEU:HG	2.14	0.47
31:B6:6:ARG:O	31:B6:7:ILE:CB	2.62	0.47
31:B6:10:LEU:HB3	33:B8:34:TRP:CD1	2.49	0.47
58:DZ:9:TYR:HB3	58:DZ:35:ARG:HH22	1.78	0.47
1:CA:1318:A:C2'	1:CA:1319:A:H5'	2.44	0.47
57:DY:28:LYS:HE3	57:DY:30:VAL:HG22	1.95	0.47
57:DY:95:LYS:HD3	57:DY:100:ALA:CB	2.44	0.47
19:AS:58:VAL:O	19:AS:60:VAL:N	2.47	0.47
51:DS:12:PHE:CD1	51:DS:12:PHE:C	2.87	0.47
35:DA:2394:C:P	48:DP:63:PRO:HD2	2.54	0.47
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.11	0.47
30:D5:2:ALA:O	30:D5:3:LYS:HB3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:70:GLY:O	51:BS:72:ALA:N	2.47	0.47
31:D6:47:THR:CG2	31:D6:49:HIS:CE1	2.97	0.47
50:BR:83:ILE:O	50:BR:87:TYR:CE2	2.67	0.47
5:CE:119:LEU:N	5:CE:119:LEU:HD23	2.29	0.47
49:DQ:50:ALA:O	49:DQ:51:ARG:C	2.52	0.47
26:D1:76:ARG:HH22	26:D1:95:LEU:CG	2.27	0.47
35:DA:999:U:OP2	35:DA:1153:C:OP2	2.32	0.47
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.29	0.47
35:DA:2573:C:OP1	35:DA:2575:C:OP2	2.33	0.47
35:DA:2888:C:H2'	35:DA:2889:C:C6	2.48	0.47
19:AS:15:LEU:O	19:AS:19:VAL:HB	2.14	0.47
39:BE:110:GLY:O	50:BR:2:ARG:HD3	2.14	0.47
47:BO:17:ARG:HH21	47:BO:47:ILE:HD11	1.79	0.47
50:BR:96:ARG:O	50:BR:114:VAL:HA	2.14	0.47
30:B5:35:GLU:O	30:B5:36:CYS:CB	2.62	0.47
1:AA:1442:G:C5	1:AA:1442(B):A:C2	3.02	0.47
52:BT:118:ARG:HA	52:BT:121:ILE:HD12	1.96	0.47
35:BA:1658:C:O5'	35:BA:1658:C:H6	1.97	0.47
29:B4:43:TYR:HD2	29:B4:44:THR:HG23	1.79	0.47
22:AW:29:C:O2'	22:AW:30:G:H5'	2.14	0.47
11:CK:125:PHE:CD1	11:CK:125:PHE:N	2.83	0.47
1:CA:392:G:H2'	1:CA:393:A:H8	1.79	0.47
26:B1:51:VAL:O	26:B1:58:ILE:HG22	2.14	0.47
36:BB:86:G:C6	36:BB:92:C:N3	2.82	0.47
42:DH:72:ILE:O	42:DH:75:ALA:N	2.47	0.47
24:CY:532:GLY:C	24:CY:534:ILE:N	2.67	0.47
39:BE:15:PHE:CE2	52:BT:80:SER:HB2	2.49	0.47
58:BZ:108:PRO:HB3	58:BZ:141:VAL:HG12	1.95	0.47
38:BD:26:LYS:O	38:BD:27:THR:HB	2.13	0.47
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.82	0.47
24:CY:5:VAL:CG1	24:CY:6:GLU:H	2.22	0.47
9:CI:79:LEU:O	9:CI:80:GLY:C	2.51	0.47
40:DF:156:LEU:HD21	40:DF:163:VAL:HG12	1.95	0.47
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.93	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47
35:BA:883:G:H2'	35:BA:884:C:O4'	2.14	0.47
4:AD:158:ILE:CG2	4:AD:162:LEU:HD12	2.43	0.47
1:AA:1368:G:OP2	9:AI:112:LYS:HD3	2.14	0.47
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.95	0.47
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.79	0.47
3:AC:173:VAL:HG12	3:AC:175:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.79	0.47
1:CA:360:A:O2'	1:CA:361:G:H5'	2.14	0.47
24:AY:610:VAL:HG23	24:AY:643:ILE:HB	1.95	0.47
37:DC:79:ALA:HB1	37:DC:83:LYS:HB2	1.95	0.47
24:AY:528:ALA:O	24:AY:568:TYR:HA	2.14	0.47
12:CL:117:ARG:O	12:CL:119:LYS:O	2.32	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:CD1	2.44	0.47
46:BN:125:GLY:CA	46:BN:126:PRO:O	2.62	0.47
48:BP:70:GLN:HA	48:BP:70:GLN:OE1	2.12	0.47
24:AY:637:ARG:O	24:AY:638:GLY:C	2.52	0.47
29:B4:39:CYS:O	29:B4:42:PHE:CE2	2.67	0.47
35:BA:1719:G:H2'	35:BA:1720:U:H5'	1.96	0.47
38:BD:229:VAL:HG23	38:BD:230:ASP:N	2.28	0.47
30:B5:16:ARG:HD2	30:B5:20:ARG:HH12	1.79	0.47
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.14	0.47
53:DU:70:ARG:NH2	53:DU:75:ASN:HB2	2.29	0.47
26:B1:18:ILE:HD11	26:B1:37:ILE:HG12	1.96	0.47
1:AA:936:C:H2'	1:AA:937:A:O4'	2.14	0.47
1:AA:17:U:H2'	1:AA:18:C:C6	2.49	0.47
39:BE:188:VAL:HG23	39:BE:189:PRO:HD2	1.97	0.47
24:AY:385:THR:OG1	24:AY:386:GLY:N	2.47	0.47
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.14	0.47
32:D7:16:HIS:ND1	35:DA:684:G:OP1	2.47	0.47
37:BC:164:PHE:HB2	37:BC:172:ILE:HD11	1.96	0.47
35:BA:2759:G:O2'	35:BA:2760:C:H5'	2.14	0.47
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.15	0.47
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.78	0.47
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.14	0.47
49:BQ:26:TYR:CE1	49:BQ:140:ALA:HB3	2.49	0.47
1:AA:502:G:OP1	12:AL:118:SER:HB3	2.14	0.47
1:CA:763:G:H2'	1:CA:764:C:H6	1.80	0.47
49:BQ:32:TYR:N	49:BQ:32:TYR:CD1	2.83	0.47
48:DP:17:LYS:O	48:DP:17:LYS:HG2	2.14	0.47
27:D2:27:GLU:O	27:D2:30:ARG:N	2.47	0.47
37:BC:85:LYS:O	37:BC:89:GLU:HG3	2.14	0.47
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.14	0.47
35:DA:2134:A:H2'	35:DA:2134:A:N3	2.29	0.47
41:BG:117:PHE:HE1	41:BG:120:LEU:N	2.12	0.47
1:CA:542:G:P	4:CD:10:ARG:HH21	2.38	0.47
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.14	0.47
4:CD:25:ARG:O	4:CD:28:SER:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:A:N3	1:AA:509:A:H2'	2.30	0.47
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.15	0.47
24:CY:92:ILE:HG12	24:CY:405:PRO:HG2	1.91	0.47
24:CY:26:THR:HB	62:CY:703:GDP:O2A	2.14	0.47
40:BF:204:ASN:C	40:BF:206:ILE:H	2.17	0.47
24:AY:221:ALA:C	24:AY:223:PHE:H	2.18	0.47
54:DV:40:LEU:N	54:DV:40:LEU:HD22	2.29	0.47
54:DV:46:VAL:O	54:DV:47:VAL:HG13	2.15	0.47
54:BV:40:LEU:CA	54:BV:45:THR:HB	2.40	0.47
31:B6:27:LYS:HZ2	31:B6:30:THR:CB	2.27	0.47
35:DA:2334:G:C2	51:DS:15:ARG:NH1	2.83	0.47
31:D6:28:ARG:O	31:D6:32:ASN:HB2	2.14	0.47
31:D6:6:ARG:C	31:D6:8:LYS:H	2.15	0.47
41:DG:39:ILE:HD11	41:DG:92:VAL:HG23	1.95	0.47
35:DA:1899:G:N2	35:DA:1902:C:C4	2.80	0.47
57:BY:85:VAL:HG13	57:BY:93:GLY:O	2.13	0.47
30:D5:44:THR:CG2	30:D5:45:VAL:H	2.23	0.47
55:BW:88:ARG:CB	55:BW:92:ARG:HB3	2.44	0.47
41:BG:125:PHE:CE1	41:BG:131:TYR:HD1	2.32	0.47
24:CY:74:TRP:NE1	24:CY:273:LEU:HB3	2.29	0.47
50:BR:87:TYR:C	50:BR:89:ASP:N	2.66	0.47
8:CH:44:PHE:HE2	8:CH:109:ILE:CG2	2.28	0.47
24:AY:590:ILE:C	24:AY:592:GLU:H	2.18	0.47
35:BA:583:G:H2'	35:BA:584:C:H6	1.78	0.47
51:BS:36:TYR:HD1	51:BS:36:TYR:N	2.12	0.47
44:BK:6:ALA:CB	44:BK:30:HIS:HE1	2.28	0.47
51:DS:70:GLY:C	51:DS:72:ALA:N	2.68	0.47
51:DS:85:VAL:HG23	51:DS:106:ARG:CG	2.42	0.47
35:DA:544:G:H21	35:DA:547:A:H2'	1.79	0.47
1:AA:736:C:H2'	1:AA:737:A:H8	1.77	0.47
18:CR:59:SER:H	18:CR:62:GLU:CB	2.25	0.47
49:DQ:43:THR:HB	49:DQ:45:GLN:HE21	1.80	0.47
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.36	0.47
44:DK:5:VAL:HG12	44:DK:59:ILE:HG23	1.96	0.47
24:AY:555:LEU:CD1	24:AY:599:PRO:HB2	2.43	0.47
52:BT:99:LEU:HB2	52:BT:101:PHE:HE1	1.80	0.47
10:CJ:69:ASN:O	10:CJ:70:ARG:HG3	2.15	0.47
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.20	0.47
24:CY:491:VAL:CG2	24:CY:597:GLY:HA2	2.44	0.47
24:CY:510:VAL:HG11	24:CY:567:LEU:HD13	1.95	0.47
35:BA:1675:C:O2	39:BE:129:HIS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:286:ILE:HD12	24:CY:286:ILE:N	2.29	0.47
35:BA:1336:A:O2'	35:BA:1337:G:H5'	2.14	0.47
32:B7:41:ARG:NH2	35:BA:460:A:OP1	2.48	0.47
39:DE:93:VAL:C	39:DE:95:ILE:N	2.67	0.47
9:CI:9:ARG:HG2	9:CI:14:VAL:HA	1.96	0.47
35:BA:1577:C:H2'	35:BA:1578:U:O4'	2.15	0.47
1:CA:608:A:O2'	1:CA:609:A:H5'	2.15	0.47
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.48	0.47
42:BH:146:ALA:O	42:BH:149:ARG:N	2.47	0.47
52:BT:128:GLU:OE2	52:BT:129:ARG:N	2.48	0.47
24:CY:121:VAL:HG23	24:CY:122:TRP:N	2.29	0.47
35:DA:750:A:C2	35:DA:753:C:C6	3.02	0.47
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.96	0.47
35:DA:848:G:C4	35:DA:933:A:H8	2.32	0.47
35:DA:1851:U:H2'	35:DA:1852:C:O4'	2.14	0.47
15:CO:9:GLN:O	15:CO:10:LYS:C	2.52	0.47
35:DA:177:G:H3'	35:DA:178:G:H8	1.79	0.47
35:BA:588:U:H2'	35:BA:589:C:H6	1.78	0.47
1:AA:881:G:P	12:AL:12:ARG:HH22	2.37	0.47
24:CY:168:ILE:HD11	24:CY:178:ILE:HD11	1.95	0.47
49:BQ:35:VAL:O	49:BQ:129:THR:HG22	2.15	0.47
1:CA:1134:G:N2	1:CA:1141:C:C2	2.83	0.47
35:BA:733:G:C6	35:BA:761:A:N7	2.83	0.47
35:DA:799:G:C3'	35:DA:800:A:H5"	2.43	0.47
10:AJ:22:LYS:HZ2	10:AJ:88:LEU:HD23	1.80	0.47
42:BH:89:ILE:O	42:BH:89:ILE:CG1	2.62	0.47
35:DA:1582:C:H2'	35:DA:1583:A:C8	2.43	0.47
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.11	0.47
22:AW:75:C:H5'	22:AW:75:C:C6	2.48	0.47
11:CK:23:ALA:O	11:CK:86:GLY:HA3	2.14	0.47
11:AK:24:SER:O	11:AK:88:GLY:HA2	2.14	0.47
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.14	0.47
1:CA:265:G:O2'	1:CA:266:G:H5'	2.14	0.47
24:CY:652:MET:HA	24:CY:652:MET:HE2	1.96	0.47
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.14	0.47
17:AQ:50:LYS:O	17:AQ:50:LYS:HG3	2.15	0.47
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.48	0.47
29:D4:39:CYS:O	29:D4:42:PHE:CE2	2.67	0.47
1:CA:164:U:H2'	1:CA:165:C:H6	1.79	0.47
33:D8:29:LYS:HD2	33:D8:44:LYS:CB	2.44	0.47
38:DD:28:GLU:HB2	38:DD:29:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:2:PHE:O	54:BV:3:ALA:CB	2.63	0.47
37:BC:65:LEU:HD11	37:BC:162:ILE:HD13	1.96	0.47
24:AY:176:GLY:HA2	24:AY:187:THR:HA	1.95	0.47
37:BC:14:LYS:O	37:BC:15:VAL:HG13	2.14	0.47
35:BA:307:G:H21	35:BA:330:A:N6	2.13	0.47
2:AB:8:LYS:HB2	2:AB:9:GLU:OE2	2.14	0.47
19:AS:48:THR:HG22	19:AS:61:TYR:HD1	1.80	0.47
35:BA:1661:G:O2'	35:BA:1662:C:H5'	2.14	0.47
35:BA:809:G:O2'	35:BA:810:U:H5'	2.14	0.47
35:BA:2116:G:N7	35:BA:2117:A:C5	2.82	0.47
1:CA:417:C:H2'	1:CA:418:C:H6	1.79	0.47
37:DC:182:PRO:HD2	37:DC:185:LYS:HG2	1.96	0.47
17:AQ:45:HIS:CG	17:AQ:65:ILE:HD13	2.49	0.47
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HD13	1.97	0.47
1:CA:603:U:H2'	1:CA:604:G:H8	1.78	0.47
25:D0:23:VAL:HG13	25:D0:38:VAL:HG22	1.97	0.47
44:BK:69:THR:C	44:BK:70:LYS:HE3	2.35	0.47
8:CH:19:VAL:CG2	8:CH:21:LYS:HE2	2.44	0.47
33:B8:39:LYS:HG3	33:B8:43:GLN:NE2	2.30	0.47
2:AB:109:SER:O	2:AB:112:VAL:HB	2.14	0.47
35:DA:1629:U:H2'	35:DA:1630:G:C8	2.50	0.47
35:DA:393:C:O2'	35:DA:394:A:H5'	2.13	0.47
35:DA:1288:U:H4'	35:DA:1289:C:OP2	2.14	0.47
22:CV:29:G:O2'	22:CV:30:G:H5'	2.15	0.47
18:CR:88:LYS:C	18:CR:88:LYS:HD3	2.34	0.47
2:CB:179:LYS:HG2	2:CB:179:LYS:O	2.14	0.47
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.14	0.47
6:CF:29:ALA:O	6:CF:31:GLU:N	2.48	0.47
7:AG:31:MET:SD	7:AG:36:LYS:HB2	2.53	0.47
24:CY:518:PRO:O	24:CY:519:ARG:C	2.52	0.47
40:BF:199:TRP:O	40:BF:202:PHE:HB3	2.14	0.47
24:AY:210:ARG:HG2	24:AY:210:ARG:HH11	1.79	0.47
53:DU:59:ARG:HG2	53:DU:59:ARG:NH1	2.26	0.47
35:DA:769:G:H5'	35:DA:1379:A:N6	2.30	0.47
24:AY:9:LEU:HD23	24:AY:10:LYS:N	2.28	0.47
24:AY:282:SER:O	24:AY:286:ILE:HD13	2.14	0.47
53:BU:47:TYR:O	53:BU:51:LYS:HG2	2.14	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.44	0.47
9:AI:4:TYR:CE1	9:AI:88:TYR:CD2	3.03	0.47
31:B6:9:LEU:C	31:B6:9:LEU:HD22	2.34	0.47
58:DZ:39:VAL:O	58:DZ:40:ASP:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:298:G:O5'	35:DA:298:G:H8	1.97	0.47
38:BD:34:VAL:O	38:BD:36:PRO:HG2	2.15	0.47
42:DH:13:LYS:C	42:DH:15:VAL:H	2.16	0.47
35:DA:272(J):C:H5'	35:DA:274:G:OP1	2.15	0.47
31:D6:11:LEU:HB3	31:D6:26:ASN:HD21	1.78	0.47
29:D4:7:PRO:HG2	41:DG:61:ALA:HB1	1.96	0.47
30:D5:3:LYS:CE	35:DA:2613:U:H2'	2.44	0.47
1:CA:1299:A:C2	1:CA:1301:U:N3	2.82	0.47
40:DF:10:PRO:HG2	40:DF:11:VAL:H	1.79	0.47
5:CE:78:HIS:HE1	5:CE:80:ILE:HG23	1.79	0.47
58:DZ:116:VAL:HG12	58:DZ:117:LEU:N	2.30	0.47
35:BA:582:G:C6	35:BA:1259:G:N1	2.83	0.47
22:CW:20:G:C5	35:DA:2169:A:H2	2.31	0.47
48:DP:33:ARG:O	48:DP:35:HIS:O	2.30	0.47
48:BP:83:VAL:HG13	48:BP:114:ILE:HA	1.96	0.47
39:DE:61:ARG:HG2	39:DE:62:PRO:CD	2.43	0.47
51:DS:104:GLY:O	51:DS:106:ARG:N	2.46	0.47
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.39	0.47
38:DD:161:THR:O	38:DD:162:SER:HB3	2.14	0.47
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.24	0.47
15:AO:25:THR:O	15:AO:26:GLU:C	2.53	0.47
42:DH:46:GLU:HG2	42:DH:46:GLU:H	1.35	0.47
40:DF:68:LYS:HG3	40:DF:69:HIS:HD2	1.79	0.47
35:BA:979:G:N2	35:BA:985:C:N4	2.62	0.47
38:BD:24:ILE:CD1	38:BD:25:THR:H	2.22	0.47
1:AA:624:C:H2'	1:AA:625:G:C8	2.47	0.47
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.21	0.47
35:BA:2656:U:N3	35:BA:2665:A:H2	2.12	0.47
35:DA:753:C:H2'	35:DA:754:C:C6	2.49	0.47
49:BQ:110:THR:CG2	49:BQ:113:GLN:HG3	2.44	0.47
1:AA:1352:C:OP1	21:AU:3:LYS:HE2	2.15	0.47
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.66	0.47
35:DA:915:C:H2'	35:DA:916:G:H8	1.79	0.47
1:CA:59:A:H5''	1:CA:60:A:H5'	1.96	0.47
55:DW:14:PRO:CG	55:DW:78:GLU:HB2	2.44	0.47
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.43	0.47
16:AP:67:THR:HB	16:AP:70:ALA:HB2	1.97	0.47
1:CA:538:G:O2'	1:CA:539:A:H5'	2.14	0.47
57:BY:49:VAL:O	57:BY:51:VAL:HG23	2.15	0.47
35:BA:2552:U:H6	35:BA:2552:U:O5'	1.98	0.47
20:CT:33:ILE:HG21	20:CT:63:ILE:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1416:G:O2'	35:DA:1417:C:H5	1.97	0.47
35:BA:1050:A:H2'	35:BA:1051:G:O4'	2.14	0.47
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.80	0.47
35:DA:79:G:O2'	35:DA:80:G:H5'	2.14	0.47
35:BA:328:U:H4'	57:BY:68:HIS:NE2	2.29	0.47
35:BA:537:C:H2'	35:BA:538:G:C8	2.50	0.47
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.15	0.47
54:BV:88:ARG:O	54:BV:90:PRO:HD3	2.15	0.47
24:AY:198:GLU:O	24:AY:198:GLU:HG3	2.13	0.47
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.49	0.47
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.49	0.47
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.50	0.47
1:AA:830:G:O2'	1:AA:831:U:H5'	2.14	0.47
35:DA:539:G:O2'	35:DA:540:C:H5'	2.14	0.47
1:CA:930:C:C2'	1:CA:931:C:H5'	2.45	0.47
35:BA:1310:G:H2'	35:BA:1311:G:H5'	1.96	0.47
1:AA:710:G:O2'	1:AA:711:G:H5'	2.14	0.47
8:AH:19:VAL:HG21	8:AH:21:LYS:HE2	1.96	0.47
9:AI:33:PHE:C	9:AI:35:GLU:H	2.18	0.47
35:BA:2314:C:C2'	35:BA:2315:G:H5'	2.45	0.47
41:BG:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.47
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47
37:BC:150:ILE:HG13	37:BC:154:ILE:HG13	1.96	0.47
35:DA:1658:C:O5'	35:DA:1658:C:H6	1.98	0.47
24:AY:106:VAL:CG2	24:AY:132:ARG:HG3	2.43	0.47
46:DN:2:LYS:HZ1	54:DV:12:TYR:HB3	1.80	0.47
41:BG:77:ILE:HG22	41:BG:77:ILE:O	2.14	0.47
61:AY:702:FUA:C20	61:AY:702:FUA:O1	2.62	0.47
31:B6:7:ILE:HG22	31:B6:7:ILE:O	2.13	0.47
35:BA:253:C:H2'	35:BA:254:G:O4'	2.15	0.47
1:CA:1221:G:P	19:CS:36:ARG:HD3	2.55	0.47
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.78	0.47
35:DA:363:G:H2'	35:DA:363(A):A:H8	1.79	0.47
35:DA:253:C:H2'	35:DA:254:G:O4'	2.14	0.47
48:DP:67:MET:C	48:DP:68:GLN:HG3	2.35	0.47
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.44	0.47
30:D5:44:THR:CG2	50:DR:101:ALA:N	2.78	0.47
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.97	0.47
3:CC:86:VAL:HG23	3:CC:87:LEU:HD23	1.96	0.47
35:BA:1263:U:H2'	35:BA:1264:G:C8	2.50	0.47
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:165:THR:O	3:CC:165:THR:HG23	2.15	0.47
40:BF:127:GLU:O	40:BF:127:GLU:OE2	2.32	0.47
38:DD:44:ASN:OD1	38:DD:44:ASN:N	2.46	0.47
44:DK:93:ARG:C	44:DK:93:ARG:HD2	2.34	0.47
35:DA:583:G:H2'	35:DA:584:C:H6	1.79	0.47
26:B1:90:ILE:O	26:B1:94:LEU:CD1	2.63	0.47
48:DP:102:ARG:HH21	48:DP:102:ARG:CB	2.27	0.47
48:DP:95:VAL:HA	48:DP:99:LEU:CD2	2.40	0.47
54:DV:15:GLU:O	54:DV:16:PRO:C	2.53	0.47
35:BA:2309:A:C2'	35:BA:2310:A:H5''	2.44	0.47
35:BA:2137:C:O2'	35:BA:2138:C:H5'	2.14	0.47
30:B5:48:GLU:O	30:B5:49:CYS:HB3	2.13	0.47
1:AA:965:A:C2	1:AA:969:A:C2	3.03	0.47
52:DT:55:ASN:ND2	52:DT:58:ASN:HD21	2.12	0.47
18:AR:53:ARG:C	18:AR:55:ARG:H	2.17	0.47
52:BT:64:ARG:HG2	52:BT:64:ARG:NH1	2.29	0.47
42:DH:68:THR:C	42:DH:70:THR:N	2.68	0.47
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.97	0.47
58:BZ:107:THR:HG23	58:BZ:111:VAL:HB	1.96	0.47
1:AA:299:G:H2'	1:AA:300:A:H8	1.74	0.47
1:CA:182:U:H5'	1:CA:183:G:P	2.54	0.47
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.39	0.47
13:AM:66:LEU:CD1	13:AM:66:LEU:N	2.69	0.47
11:AK:33:THR:HB	11:AK:38:ASN:O	2.14	0.47
35:DA:1053:C:H2'	35:DA:1054:A:C5'	2.41	0.47
9:AI:9:ARG:HG2	9:AI:14:VAL:HA	1.96	0.47
35:DA:548:A:N3	35:DA:548:A:H2'	2.29	0.47
28:D3:56:VAL:CG1	28:D3:57:GLU:H	2.22	0.47
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.96	0.47
49:BQ:12:GLN:HE21	49:BQ:72:LYS:HA	1.79	0.47
57:DY:58:GLY:O	57:DY:59:GLY:C	2.53	0.47
49:BQ:87:LYS:CG	49:BQ:88:GLY:H	2.26	0.47
35:BA:48:G:N2	35:BA:177:G:N2	2.62	0.47
22:AW:73:A:O2'	22:AW:74:A:O5'	2.27	0.47
35:DA:265:A:N6	35:DA:428:A:H1'	2.29	0.47
35:BA:1100:C:H2'	35:BA:1100:C:O2	2.13	0.47
35:DA:383:U:H2'	35:DA:385:C:H5	1.79	0.47
35:BA:2555:U:C2'	35:BA:2556:C:H5'	2.43	0.47
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.30	0.47
54:DV:35:LEU:C	54:DV:37:VAL:H	2.18	0.47
43:BJ:69:UNK:O	43:BJ:70:UNK:C	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BJ:71:UNK:C	43:BJ:72:UNK:O	2.62	0.47
37:DC:202:PRO:HB2	37:DC:205:ALA:HB2	1.96	0.47
40:BF:38:ARG:O	40:BF:42:ALA:CB	2.63	0.47
35:BA:783:A:H2'	35:BA:784:A:O5'	2.14	0.47
35:BA:1930:G:C2'	35:BA:1931:U:OP2	2.63	0.47
57:BY:54:LYS:HZ3	57:BY:55:TYR:HE2	1.63	0.47
6:CF:60:PHE:CE2	18:CR:78:LEU:HD21	2.50	0.47
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.47
42:DH:94:TYR:HA	42:DH:106:THR:O	2.14	0.47
35:BA:2602:A:H4'	35:BA:2603:G:C5'	2.44	0.47
24:CY:637:ARG:HG3	24:CY:642:VAL:HG21	1.97	0.47
46:DN:102:ALA:O	46:DN:106:MET:CE	2.62	0.47
1:CA:417:C:H2'	1:CA:418:C:C6	2.50	0.47
35:BA:2564:A:OP1	35:BA:2648:C:H4'	2.14	0.47
35:DA:41:C:H42	35:DA:437:G:H1	1.63	0.47
26:D1:20:ARG:NH1	26:D1:20:ARG:HG2	2.29	0.47
8:AH:34:GLU:HB3	8:AH:118:VAL:HG21	1.96	0.47
35:DA:2373:G:O2'	35:DA:2374:C:H5'	2.14	0.47
16:CP:1:MET:HG3	16:CP:65:GLN:HG3	1.97	0.47
44:DK:69:THR:C	44:DK:70:LYS:HE3	2.35	0.47
35:DA:1218:C:H2'	35:DA:1219:G:C8	2.50	0.47
35:BA:531:C:C5	35:BA:2035:G:C2	3.02	0.47
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.50	0.47
17:AQ:60:ILE:HG22	17:AQ:72:ARG:O	2.15	0.47
39:DE:103:ASP:OD2	39:DE:201:THR:HA	2.15	0.47
54:DV:69:LYS:HE3	54:DV:71:LEU:HD21	1.97	0.47
38:DD:224:ALA:O	38:DD:225:ALA:HB2	2.15	0.47
1:AA:495:A:H4'	1:AA:496:A:OP1	2.14	0.47
35:DA:1544:A:O2'	35:DA:1545:A:H5'	2.15	0.47
35:DA:641:C:H2'	35:DA:642:G:O4'	2.15	0.47
35:DA:381:G:O2'	35:DA:382:G:H5'	2.14	0.47
35:BA:1985:G:O2'	35:BA:1986:A:H5'	2.13	0.47
42:DH:175:LYS:O	42:DH:176:ALA:HB2	2.13	0.47
40:DF:3:GLU:CB	40:DF:24:LEU:HG	2.43	0.47
36:BB:40:U:O2'	36:BB:43:C:C5	2.67	0.47
41:BG:106:LEU:O	41:BG:111:LEU:HD12	2.14	0.47
41:BG:12:TYR:O	41:BG:16:ARG:HB2	2.14	0.47
30:B5:19:ARG:NH1	35:BA:1266:G:OP1	2.46	0.47
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.14	0.47
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.96	0.47
24:AY:87:HIS:NE2	24:AY:120:THR:OG1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:121:VAL:CG2	24:AY:122:TRP:N	2.77	0.47
24:AY:139:MET:CE	24:AY:146:LEU:HB2	2.45	0.47
24:AY:122:TRP:CE2	24:AY:157:LEU:HD12	2.49	0.47
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.96	0.47
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	1.97	0.47
54:BV:38:LEU:HD12	54:BV:56:SER:HA	1.95	0.47
53:BU:59:ARG:CG	53:BU:59:ARG:HH11	2.26	0.47
53:BU:79:PHE:HE2	53:BU:83:LEU:HD11	1.80	0.47
58:DZ:6:LYS:O	58:DZ:39:VAL:HG12	2.14	0.47
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH2	2.77	0.47
40:DF:167:ALA:C	40:DF:170:LEU:HD23	2.35	0.47
57:DY:13:VAL:CG2	57:DY:73:ARG:O	2.63	0.47
40:DF:167:ALA:O	40:DF:169:ASN:N	2.48	0.47
57:DY:37:VAL:HG23	57:DY:38:ILE:N	2.30	0.47
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.96	0.47
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.30	0.47
41:DG:56:ALA:HA	41:DG:59:GLU:OE1	2.14	0.47
40:BF:167:ALA:O	40:BF:169:ASN:N	2.48	0.47
57:BY:95:LYS:CE	57:BY:101:LYS:H	2.27	0.47
1:CA:1004:A:H5'	1:CA:1025:U:C4	2.50	0.47
30:B5:10:LYS:HB2	35:BA:2017:U:O2	2.14	0.47
30:B5:11:THR:OG1	35:BA:1263:U:O3'	2.33	0.47
30:D5:3:LYS:CD	30:D5:5:PRO:HD2	2.40	0.47
30:D5:2:ALA:N	35:DA:2015:A:H1'	2.30	0.47
47:DO:107:ARG:HA	47:DO:112:MET:HE1	1.96	0.47
47:DO:60:ALA:CA	47:DO:87:ILE:HD11	2.44	0.47
31:B6:16:CYS:O	31:B6:17:LYS:C	2.53	0.47
31:D6:17:LYS:HB2	31:D6:44:ARG:NH1	2.27	0.47
46:DN:15:LEU:CD2	46:DN:53:VAL:HB	2.45	0.47
58:DZ:176:PRO:O	58:DZ:177:PRO:O	2.32	0.47
35:BA:1260:G:H2'	35:BA:1261:C:C6	2.50	0.47
24:AY:277:VAL:HG13	24:AY:278:ASP:H	1.79	0.47
28:D3:8:LEU:O	28:D3:31:LEU:HD22	2.15	0.47
3:AC:59:ARG:HG2	3:AC:64:VAL:HA	1.95	0.47
35:DA:585:G:H2'	35:DA:1251:C:H42	1.79	0.47
2:CB:126:GLU:O	2:CB:127:ILE:C	2.53	0.47
33:D8:4:MET:SD	33:D8:61:LEU:HD22	2.55	0.47
35:DA:1858:G:O2'	35:DA:1884:A:N6	2.48	0.47
35:BA:1783:A:C2	35:BA:2587:A:C4	3.01	0.47
48:DP:85:LEU:HA	48:DP:88:LEU:HB3	1.96	0.47
48:BP:83:VAL:O	48:BP:83:VAL:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:624:C:H41	48:BP:107:LYS:HZ2	1.61	0.47
2:CB:207:ALA:O	2:CB:208:ILE:C	2.53	0.47
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.15	0.47
26:D1:24:ALA:O	26:D1:27:GLU:O	2.33	0.47
49:DQ:3:MET:HG3	49:DQ:4:PRO:O	2.13	0.47
44:BK:112:MET:HE2	44:BK:120:LEU:HD21	1.95	0.47
44:BK:98:ARG:HD2	44:BK:139:VAL:HG22	1.97	0.47
2:AB:126:GLU:O	2:AB:127:ILE:C	2.53	0.47
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.50	0.47
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.78	0.47
39:BE:30:PRO:O	39:BE:32:PRO:HD3	2.14	0.47
39:BE:76:ARG:O	39:BE:77:ILE:O	2.32	0.47
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.78	0.47
41:DG:121:ASN:CG	41:DG:124:SER:HB2	2.35	0.47
41:DG:32:PRO:HB3	41:DG:163:ALA:HB2	1.97	0.47
51:DS:70:GLY:O	51:DS:72:ALA:N	2.48	0.47
51:DS:89:ARG:HG3	51:DS:92:TYR:N	2.30	0.47
58:DZ:16:SER:O	58:DZ:17:ALA:C	2.53	0.47
35:DA:2190:G:O2'	35:DA:2191:G:H5'	2.15	0.47
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.97	0.47
9:AI:114:TYR:HD1	10:AJ:60:ARG:HG3	1.79	0.47
39:DE:111:ARG:CZ	50:DR:2:ARG:NH2	2.78	0.47
2:AB:77:ALA:O	2:AB:81:VAL:HG23	2.14	0.47
13:CM:79:LYS:HA	13:CM:82:MET:HG3	1.96	0.47
52:DT:29:ARG:HG2	52:DT:85:LYS:HA	1.96	0.47
35:DA:191:A:O2'	35:DA:192:C:H5'	2.15	0.47
5:AE:11:ILE:HD12	5:AE:31:LEU:HD13	1.96	0.47
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.38	0.47
9:AI:95:LYS:NZ	9:AI:96:LEU:CD1	2.71	0.47
38:DD:145:VAL:HG12	38:DD:146:GLU:O	2.15	0.47
38:DD:145:VAL:CG1	38:DD:146:GLU:N	2.77	0.47
58:DZ:79:ARG:O	58:DZ:80:ARG:CB	2.62	0.47
24:CY:526:VAL:CG1	24:CY:566:THR:HG23	2.45	0.47
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.14	0.47
25:B0:12:ASN:O	25:B0:14:ARG:N	2.41	0.47
35:BA:2163:C:H2'	35:BA:2164:C:H5'	1.96	0.47
50:BR:3:HIS:O	50:BR:4:LEU:HB3	2.15	0.47
55:DW:66:GLU:HA	55:DW:69:LEU:CD1	2.44	0.47
35:BA:460:A:C2	35:BA:470:A:C4	3.03	0.47
1:AA:184:G:O2'	1:AA:185:A:H5'	2.14	0.47
39:BE:92:THR:OG1	39:BE:95:ILE:HD11	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:36:U:O2	24:AY:502:GLY:HA2	2.15	0.47
30:D5:58:LEU:HD13	30:D5:58:LEU:C	2.34	0.47
37:BC:29:LEU:O	37:BC:31:LYS:N	2.48	0.47
20:CT:103:GLY:O	20:CT:104:LEU:C	2.52	0.47
40:DF:74:ARG:O	40:DF:75:HIS:CG	2.68	0.47
15:CO:55:GLY:O	15:CO:56:LEU:C	2.53	0.47
35:BA:2148:G:O2'	35:BA:2149:G:H5'	2.14	0.47
34:B9:29:ASN:O	34:B9:31:LYS:N	2.47	0.47
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.96	0.47
30:B5:58:LEU:HD13	30:B5:58:LEU:C	2.35	0.47
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD11	1.93	0.47
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.29	0.47
49:DQ:35:VAL:O	49:DQ:129:THR:HG22	2.14	0.47
49:DQ:12:GLN:HE21	49:DQ:72:LYS:HA	1.79	0.47
24:AY:514:VAL:HG21	24:AY:593:ALA:HB1	1.94	0.47
55:BW:107:LEU:HD22	55:BW:107:LEU:N	2.28	0.47
35:DA:849:A:C8	35:DA:850:C:C5	3.02	0.47
24:AY:601:ILE:O	24:AY:601:ILE:HG22	2.15	0.47
12:CL:86:ARG:HH22	12:CL:99:HIS:CD2	2.33	0.47
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.95	0.47
1:AA:1125:U:H2'	1:AA:1126:U:H2'	1.97	0.47
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.80	0.47
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.79	0.47
16:AP:54:GLU:OE2	16:AP:54:GLU:HA	2.13	0.47
36:BB:95:C:O2'	36:BB:96:U:H5'	2.15	0.47
38:BD:77:ALA:HB2	38:BD:97:TYR:CG	2.50	0.47
1:CA:1281:U:H5'	1:CA:1282:C:OP2	2.15	0.47
35:DA:1582:C:O2'	35:DA:1583:A:H5'	2.15	0.47
36:DB:20:C:C2'	36:DB:21:G:C5'	2.92	0.47
1:CA:473:G:H2'	1:CA:474:G:C8	2.46	0.47
1:CA:475:G:O2'	1:CA:476:G:H5'	2.15	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:HG	1.97	0.47
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.62	0.47
17:CQ:50:LYS:HG3	17:CQ:50:LYS:O	2.13	0.47
35:DA:825:C:C2'	35:DA:826:U:H5'	2.45	0.47
24:CY:343:ASN:ND2	24:CY:343:ASN:C	2.67	0.47
1:CA:657:G:O2'	1:CA:658:G:H5'	2.14	0.47
22:CW:52:C:C2'	22:CW:53:G:H5''	2.45	0.47
35:BA:1064:C:H42	35:BA:1074:G:H1	1.62	0.47
1:AA:824:C:H2'	1:AA:825:G:C8	2.46	0.47
38:BD:28:GLU:HB2	38:BD:29:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:73:VAL:O	37:BC:73:VAL:HG13	2.15	0.47
33:B8:42:ARG:HH11	35:BA:2350:C:H5	1.63	0.47
35:DA:328:U:H4'	57:DY:68:HIS:NE2	2.29	0.47
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.49	0.47
24:AY:603:GLU:C	24:AY:676:TYR:HD1	2.18	0.47
36:BB:54:G:H2'	36:BB:55:U:H6	1.80	0.47
44:DK:18:THR:C	44:DK:20:ALA:H	2.18	0.47
22:AV:73:A:O3'	22:AV:74:C:C6	2.68	0.47
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.49	0.47
46:DN:99:LEU:C	46:DN:99:LEU:HD13	2.35	0.47
35:BA:1808:U:H2'	35:BA:1809:A:O4'	2.15	0.47
2:CB:60:ASP:O	2:CB:64:ARG:NE	2.48	0.47
55:BW:41:LYS:C	55:BW:43:GLY:H	2.18	0.47
37:DC:11:LEU:C	37:DC:13:GLU:N	2.66	0.47
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HD13	1.97	0.47
50:DR:65:LEU:O	50:DR:65:LEU:HD12	2.14	0.47
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.50	0.47
9:CI:63:ILE:HG22	9:CI:64:THR:N	2.28	0.47
58:BZ:27:VAL:N	58:BZ:37:VAL:HG22	2.29	0.47
8:AH:19:VAL:CG2	8:AH:21:LYS:HE2	2.44	0.47
49:DQ:17:LEU:C	49:DQ:18:LYS:HD2	2.35	0.47
35:DA:1534:U:H2'	35:DA:1535:A:O4'	2.13	0.47
1:CA:830:G:O2'	1:CA:831:U:H5'	2.14	0.47
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.49	0.47
49:DQ:32:TYR:N	49:DQ:32:TYR:CD1	2.82	0.47
2:CB:53:ARG:O	2:CB:53:ARG:HG2	2.15	0.47
1:AA:341:C:C2	1:AA:349:A:C2	3.03	0.47
53:DU:39:LEU:O	53:DU:40:PHE:C	2.52	0.47
1:CA:337:C:H2'	1:CA:338:A:H8	1.79	0.47
35:BA:1534:U:H2'	35:BA:1535:A:O4'	2.14	0.47
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.15	0.47
35:BA:112:U:C2'	35:BA:113:G:H5'	2.45	0.47
22:AV:59:A:H2'	22:AV:60:U:H5'	1.97	0.47
4:CD:43:HIS:O	4:CD:45:GLN:N	2.48	0.47
24:AY:541:ALA:HB2	24:AY:579:GLU:HG3	1.96	0.47
14:AN:8:GLU:O	14:AN:11:LYS:HB2	2.14	0.47
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.30	0.47
1:AA:25:C:H2'	1:AA:26:A:C8	2.49	0.47
38:BD:55:GLY:O	38:BD:216:GLY:HA2	2.15	0.47
42:BH:157:TYR:CE1	42:BH:171:LEU:HD21	2.23	0.47
29:B4:26:SER:HB3	41:BG:105:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:110:ALA:O	41:BG:111:LEU:C	2.53	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	1.96	0.47
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CD1	2.37	0.47
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.49	0.47
4:AD:22:LYS:O	4:AD:113:SER:HB3	2.15	0.47
40:BF:185:ASP:HA	40:BF:188:ARG:HD3	1.95	0.47
35:DA:1155:A:O3'	53:DU:55:ARG:NH1	2.48	0.47
35:DA:1378:A:HO2'	35:DA:1379:A:H5''	1.72	0.47
35:DA:2476:A:C2	35:DA:2477:C:C6	3.03	0.47
53:BU:90:VAL:HG13	54:BV:39:LEU:HG	1.96	0.47
35:DA:925:C:C4	35:DA:926:A:N7	2.83	0.47
31:B6:11:LEU:HB3	31:B6:26:ASN:HD21	1.79	0.47
41:DG:46:ALA:HA	41:DG:51:ARG:HB2	1.97	0.47
35:BA:1902:C:H4'	38:BD:244:ARG:CB	2.44	0.47
31:B6:47:THR:CG2	31:B6:49:HIS:CE1	2.97	0.47
46:DN:134:ARG:HG3	46:DN:134:ARG:O	2.15	0.47
12:AL:70:ILE:HG21	12:AL:77:LEU:HD12	1.96	0.47
39:BE:38:THR:CG2	39:BE:40:GLU:HB2	2.45	0.47
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.80	0.47
26:B1:81:LYS:NZ	35:BA:271(H):G:O3'	2.29	0.47
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.15	0.47
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.96	0.47
46:DN:45:ASN:N	46:DN:45:ASN:ND2	2.56	0.47
35:DA:2745:C:C4	35:DA:2746:U:C4	3.03	0.47
2:AB:126:GLU:O	2:AB:129:GLU:OE2	2.33	0.47
35:BA:2888:C:H2'	35:BA:2889:C:C6	2.49	0.47
29:B4:50:VAL:O	29:B4:51:ASP:CB	2.62	0.47
35:BA:946:G:H2'	35:BA:947:G:H8	1.80	0.47
51:DS:33:LYS:HG2	51:DS:34:HIS:CD2	2.49	0.47
29:D4:14:ILE:O	29:D4:15:ILE:HD13	2.15	0.47
29:D4:12:ALA:HB2	29:D4:29:PRO:HA	1.97	0.47
54:DV:19:LYS:HE2	54:DV:19:LYS:HA	1.96	0.47
39:BE:14:ILE:HD11	39:BE:173:VAL:HG11	1.96	0.47
39:BE:6:GLY:HA2	39:BE:27:LEU:O	2.15	0.47
50:DR:118:GLU:HA	50:DR:118:GLU:OE1	2.15	0.47
52:BT:102:ILE:HB	52:BT:110:ILE:HD12	1.96	0.47
3:CC:151:VAL:CG1	3:CC:152:ILE:N	2.77	0.47
39:BE:174:ASP:OD2	39:BE:175:VAL:N	2.48	0.47
35:BA:1436:G:H1'	35:BA:1477:A:O2'	2.15	0.47
1:CA:1123:A:H61	1:CA:1149:C:N4	2.13	0.47
35:BA:1052:C:P	35:BA:1052:C:O4'	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.28	0.47
49:BQ:24:GLY:CA	49:BQ:67:ARG:HH12	2.28	0.47
35:BA:654(R):C:O2'	35:BA:654(S):G:H8	1.98	0.47
35:BA:286:C:H2'	35:BA:287:C:H6	1.77	0.47
24:CY:290:LYS:HB3	24:CY:298:VAL:CG2	2.44	0.47
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.48	0.47
35:DA:754:C:H2'	35:DA:755:C:C6	2.50	0.47
24:AY:432:ALA:HA	24:AY:438:PHE:CZ	2.50	0.47
1:CA:631:G:C2'	1:CA:632:A:C8	2.94	0.47
35:DA:654(S):G:C5	35:DA:654(T):C:H1'	2.50	0.47
1:CA:470:C:C2'	1:CA:471:G:OP1	2.63	0.47
35:BA:733:G:O6	35:BA:761:A:C8	2.68	0.47
24:AY:495:GLY:O	24:AY:510:VAL:N	2.43	0.47
35:BA:775:G:O6	35:BA:787:U:H2'	2.14	0.47
13:CM:37:THR:HG21	13:CM:56:LEU:HA	1.96	0.47
24:CY:421:GLN:O	24:CY:424:LEU:HB3	2.15	0.47
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.35	0.47
1:AA:1231:G:C2'	1:AA:1232:U:H5'	2.45	0.47
35:BA:1115:G:C8	35:BA:1115:G:H5'	2.47	0.47
22:CW:62:C:O2'	22:CW:63:C:H5'	2.14	0.47
35:DA:2203:U:H1'	38:DD:151:LYS:HE3	1.97	0.47
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.49	0.47
35:BA:1064:C:H5''	44:BK:86:LYS:HB2	1.97	0.47
35:DA:1774:C:H6	35:DA:1774:C:O5'	1.97	0.47
54:BV:32:THR:HG22	54:BV:33:VAL:N	2.30	0.47
56:BX:90:GLU:HA	56:BX:93:GLU:HG2	1.96	0.47
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.45	0.47
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.24	0.47
1:AA:201:C:C2'	1:AA:202:U:H5''	2.44	0.47
1:AA:37:U:O2'	1:AA:500:G:H4'	2.15	0.47
57:BY:68:HIS:CB	57:BY:71:LYS:HZ3	2.27	0.47
17:AQ:51:TYR:CZ	17:AQ:73:VAL:HG11	2.50	0.47
6:CF:21:LEU:O	6:CF:24:GLU:HB3	2.14	0.47
7:CG:18:TYR:HD2	7:CG:59:LEU:HD13	1.79	0.47
1:CA:452:A:H4'	16:CP:72:ARG:CZ	2.44	0.47
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.44	0.47
1:CA:636:U:H2'	1:CA:637:G:H8	1.80	0.47
35:DA:325:G:O2'	35:DA:326:G:H5'	2.14	0.47
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.13	0.47
35:BA:112:U:H2'	35:BA:113:G:H5'	1.96	0.47
14:CN:8:GLU:O	14:CN:11:LYS:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DC:156:GLU:OE1	37:DC:161:ARG:HD3	2.15	0.47
34:D9:16:VAL:HA	34:D9:25:VAL:HG22	1.97	0.47
35:BA:76:C:O2'	35:BA:77:C:H5'	2.14	0.47
38:DD:99:ASP:C	38:DD:99:ASP:OD2	2.53	0.47
24:CY:346:LYS:NZ	24:CY:384:ILE:HD11	2.29	0.47
45:BL:89:UNK:O	45:BL:94:UNK:N	2.48	0.47
35:DA:1241:A:H2'	35:DA:1242:A:O4'	2.15	0.47
40:DF:36:VAL:O	40:DF:39:TRP:HB3	2.15	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.45	0.47
35:BA:769:G:H4'	35:BA:1379:A:N1	2.30	0.47
4:AD:18:LYS:O	4:AD:19:LEU:HD12	2.15	0.47
24:CY:454:MET:N	24:CY:458:HIS:HD2	2.12	0.47
61:CY:702:FUA:C31	61:CY:702:FUA:O4	2.62	0.47
24:AY:17:ILE:HG22	24:AY:25:LYS:HG2	1.96	0.47
24:AY:202:PRO:O	24:AY:203:GLU:C	2.53	0.47
46:BN:2:LYS:HZ1	54:BV:12:TYR:HB3	1.79	0.47
53:BU:97:ASP:C	53:BU:99:ALA:H	2.19	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.95	0.47
12:AL:59:ARG:CZ	24:AY:422:GLU:OE2	2.62	0.47
31:B6:6:ARG:C	31:B6:7:ILE:CD1	2.83	0.47
33:B8:55:ALA:O	33:B8:59:LYS:HE2	2.15	0.47
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.42	0.47
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	2.30	0.47
51:DS:14:VAL:CG1	51:DS:16:ASN:HD22	2.28	0.47
40:DF:157:VAL:O	40:DF:157:VAL:HG23	2.15	0.47
33:D8:28:GLY:H	35:DA:2393:A:P	2.37	0.47
56:DX:28:PHE:CD1	56:DX:28:PHE:N	2.83	0.47
58:BZ:121:HIS:CD2	58:BZ:123:ASP:O	2.68	0.47
3:CC:72:LYS:HE3	3:CC:72:LYS:CA	2.45	0.47
35:DA:2056:G:N2	35:DA:2057:A:N9	2.63	0.47
35:DA:2170:A:H5''	37:DC:135:ARG:HE	1.80	0.47
31:B6:15:GLU:N	31:B6:49:HIS:CD2	2.83	0.47
5:CE:144:THR:O	5:CE:146:ALA:N	2.48	0.47
28:D3:7:LYS:HE3	28:D3:32:GLN:O	2.15	0.47
39:BE:37:ARG:HA	39:BE:42:ASP:OD2	2.15	0.47
46:BN:131:GLN:NE2	46:BN:133:GLN:N	2.63	0.47
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.97	0.47
48:DP:99:LEU:HG	48:DP:100:LEU:HD22	1.96	0.47
48:BP:112:LEU:HD22	48:BP:113:LYS:N	2.29	0.47
35:DA:2787:C:O2	39:DE:61:ARG:HD3	2.15	0.47
34:B9:17:ILE:HG22	34:B9:18:ARG:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:632:LEU:CD1	24:CY:645:ALA:HA	2.44	0.47
30:B5:56:LYS:O	30:B5:57:VAL:O	2.32	0.47
39:BE:107:THR:HA	39:BE:163:GLU:O	2.15	0.47
1:AA:720:C:H6	1:AA:720:C:O5'	1.98	0.47
14:AN:41:ARG:CG	14:AN:41:ARG:NH1	2.78	0.47
22:CW:14:A:C4	22:CW:23:G:N2	2.83	0.47
24:AY:357:ARG:HH11	24:AY:373:ASP:CG	2.19	0.47
35:BA:1948:G:C5'	35:BA:1948:G:H8	2.28	0.47
58:DZ:163:LEU:CD2	58:DZ:163:LEU:H	2.24	0.47
35:DA:2762:G:H8	35:DA:2762:G:C5'	2.26	0.47
52:DT:30:VAL:HG21	52:DT:83:ILE:CG1	2.44	0.47
37:DC:150:ILE:O	37:DC:154:ILE:HG13	2.15	0.47
47:DO:22:ILE:O	47:DO:23:ARG:HB3	2.14	0.47
15:AO:74:ASP:C	15:AO:76:GLU:N	2.69	0.47
12:CL:41:ARG:NH1	12:CL:41:ARG:CB	2.78	0.47
44:DK:30:HIS:CG	44:DK:59:ILE:HB	2.50	0.47
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.96	0.47
42:DH:138:LYS:C	42:DH:140:LYS:N	2.67	0.47
27:D2:61:LEU:HD12	35:DA:72:U:H6	1.77	0.47
35:DA:1336:A:O2'	35:DA:1337:G:H5'	2.15	0.47
3:CC:131:ARG:HH22	3:CC:168:ALA:HB2	1.78	0.47
35:BA:1539:G:N3	35:BA:1540:U:H1'	2.29	0.47
24:CY:226:ASN:C	24:CY:228:MET:N	2.67	0.47
12:AL:33:ARG:HG3	12:AL:60:LEU:HD12	1.96	0.47
42:BH:154:PRO:C	42:BH:156:ALA:H	2.18	0.47
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.79	0.47
56:DX:7:VAL:HB	56:DX:8:ILE:HD12	1.96	0.47
35:BA:548:A:H2'	35:BA:548:A:N3	2.29	0.47
35:BA:363(F):A:H1'	35:BA:364:C:H5	1.79	0.47
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.44	0.47
38:BD:155:LEU:N	38:BD:155:LEU:CD1	2.77	0.47
24:CY:314:PHE:CZ	24:CY:327:PHE:HB3	2.50	0.47
20:AT:74:LYS:HB2	20:AT:75:ASN:H	1.47	0.47
24:CY:11:ARG:C	24:CY:12:LEU:HD22	2.36	0.47
1:CA:203:U:H5'	1:CA:216:G:N2	2.30	0.47
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.15	0.47
1:AA:98:G:H2'	1:AA:99:U:O4'	2.15	0.47
54:BV:2:PHE:HB3	54:BV:41:GLY:C	2.34	0.47
46:DN:14:VAL:HG11	46:DN:137:LYS:CD	2.45	0.47
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.96	0.47
57:BY:105:ALA:O	57:BY:106:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.77	0.47
43:DJ:8:UNK:C	43:DJ:10:UNK:N	2.78	0.47
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.15	0.47
24:AY:346:LYS:HE2	24:AY:384:ILE:HG12	1.97	0.47
35:BA:1805:U:H2'	35:BA:1806:C:H6	1.79	0.47
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.79	0.47
43:DJ:95:UNK:C	43:DJ:97:UNK:N	2.78	0.47
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.14	0.47
35:DA:706:A:H2'	35:DA:707:G:O4'	2.15	0.47
35:DA:2759:G:O2'	35:DA:2760:C:H5'	2.14	0.47
44:DK:2:LYS:HB2	44:DK:2:LYS:NZ	2.30	0.47
25:B0:55:ARG:HB3	25:B0:55:ARG:HE	1.46	0.47
36:DB:51:G:H5'	36:DB:52:A:OP2	2.15	0.47
1:CA:142:G:H1	1:CA:221:C:H42	1.63	0.47
48:BP:32:THR:HG22	48:BP:37:GLY:HA2	1.97	0.47
35:BA:1132:A:H2'	35:BA:1133:U:H6	1.80	0.47
13:AM:61:GLU:OE2	41:BG:113:ARG:NH2	2.46	0.47
41:BG:29:TRP:O	41:BG:31:VAL:N	2.48	0.47
1:CA:509:A:H3'	1:CA:510:A:C8	2.50	0.47
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.14	0.47
1:CA:1490:C:C6	1:CA:1490:C:C5'	2.92	0.47
24:CY:459:LEU:HD12	24:CY:460:GLU:H	1.80	0.47
24:CY:457:LEU:O	24:CY:460:GLU:N	2.48	0.47
40:BF:176:LEU:HD11	40:BF:180:GLY:HA3	1.97	0.47
40:BF:205:ARG:O	40:BF:206:ILE:HD13	2.15	0.47
24:AY:139:MET:HG3	24:AY:260:LEU:HB2	1.97	0.47
24:AY:119:GLU:OE1	24:AY:666:ARG:HG2	2.15	0.47
7:CG:82:GLY:HA3	23:CX:13:A:C2	2.48	0.47
53:DU:97:ASP:C	53:DU:99:ALA:H	2.18	0.47
38:DD:34:VAL:O	38:DD:36:PRO:HG2	2.15	0.47
31:B6:11:LEU:HD12	31:B6:25:LYS:HA	1.97	0.47
33:B8:51:ALA:HA	33:B8:54:GLU:CD	2.35	0.47
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.50	0.47
42:BH:13:LYS:O	42:BH:15:VAL:N	2.37	0.47
41:DG:82:LEU:HD22	41:DG:87:PRO:HB3	1.96	0.47
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.47	0.47
26:D1:44:PRO:O	35:DA:2230:G:H4'	2.15	0.47
24:CY:237:PRO:HB2	24:CY:242:LEU:HG	1.97	0.47
41:BG:157:ILE:CG2	41:BG:158:ALA:N	2.78	0.47
51:BS:25:ARG:CG	51:BS:26:LEU:N	2.78	0.47
46:DN:131:GLN:NE2	46:DN:133:GLN:N	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:16:ILE:O	46:DN:54:VAL:HA	2.15	0.47
49:DQ:62:GLY:O	58:DZ:178:GLU:OE1	2.32	0.47
1:CA:1321:C:C5'	1:CA:1322:C:C5'	2.93	0.47
28:B3:7:LYS:HE3	28:B3:32:GLN:O	2.15	0.47
35:BA:154(A):C:H42	35:BA:172:C:N4	2.13	0.47
24:AY:409:ILE:HG22	24:AY:459:LEU:HD13	1.97	0.47
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.95	0.47
48:BP:112:LEU:H	48:BP:128:HIS:HD2	1.61	0.47
44:BK:30:HIS:CG	44:BK:59:ILE:HB	2.50	0.47
44:BK:108:ALA:O	44:BK:112:MET:HB3	2.15	0.47
39:DE:36:ARG:NH2	39:DE:88:GLY:N	2.61	0.47
39:DE:69:LYS:HD3	39:DE:89:ASP:HA	1.97	0.47
35:BA:1022:G:O2'	35:BA:1023:U:P	2.72	0.47
51:DS:104:GLY:C	51:DS:106:ARG:N	2.66	0.47
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.16	0.47
1:CA:720:C:O5'	1:CA:720:C:H6	1.98	0.47
20:CT:11:SER:HA	20:CT:13:LEU:CD1	2.44	0.47
13:AM:86:CYS:HA	19:AS:73:GLU:O	2.15	0.47
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.96	0.47
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD11	1.95	0.47
35:BA:2762:G:H2'	35:BA:2763:G:H5'	1.97	0.47
41:BG:75:LYS:C	41:BG:76:SER:HG	2.15	0.47
1:AA:738:C:H2'	1:AA:739:C:H6	1.80	0.47
49:BQ:59:ARG:O	49:BQ:60:ARG:HB2	2.15	0.47
52:BT:7:ILE:O	52:BT:10:VAL:HB	2.14	0.47
10:AJ:61:GLU:HG3	14:AN:58:LYS:HZ3	1.80	0.47
10:AJ:63:PHE:HB3	14:AN:58:LYS:CA	2.41	0.47
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.83	0.47
35:DA:2483:C:H5'	35:DA:2484:G:OP2	2.15	0.47
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.97	0.47
37:DC:34:ALA:CB	37:DC:179:ALA:HB2	2.44	0.47
51:BS:42:ASP:O	51:BS:43:GLU:HB2	2.14	0.47
53:DU:110:VAL:HG12	53:DU:114:LYS:HD2	1.93	0.47
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.29	0.47
37:BC:29:LEU:CD2	37:BC:29:LEU:C	2.83	0.47
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.55	0.47
52:DT:128:GLU:O	52:DT:129:ARG:HD3	2.15	0.47
38:BD:117:VAL:CG2	38:BD:118:VAL:N	2.78	0.47
35:BA:894:C:C2'	35:BA:895:U:H5'	2.45	0.47
24:CY:515:GLU:HG3	24:CY:564:LYS:HB3	1.97	0.47
46:BN:65:LYS:CB	46:BN:69:GLN:HG3	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.23	0.47
28:D3:43:ILE:O	28:D3:47:VAL:HG23	2.15	0.47
35:BA:2453:A:H2'	35:BA:2454:G:C8	2.48	0.47
28:B3:46:ASN:O	28:B3:49:LYS:N	2.47	0.47
57:DY:31:LEU:HD22	57:DY:31:LEU:H	1.77	0.47
57:BY:58:GLY:O	57:BY:59:GLY:C	2.54	0.47
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.50	0.47
1:CA:355:C:C4	1:CA:356:A:N7	2.83	0.47
42:BH:89:ILE:HD12	42:BH:89:ILE:C	2.36	0.47
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.63	0.47
35:DA:1582:C:O2'	35:DA:1586:A:C8	2.66	0.47
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.30	0.47
35:BA:2551:C:H2'	35:BA:2552:U:C6	2.51	0.47
35:BA:2552:U:C2	35:BA:2554:U:C5'	2.97	0.47
4:AD:133:VAL:HG12	4:AD:134:ASP:N	2.30	0.47
35:DA:1034:G:OP1	35:DA:1034:G:H8	1.98	0.47
35:BA:1491:G:O2'	38:BD:101:GLU:HB2	2.14	0.47
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.15	0.47
18:AR:79:LEU:HD22	18:AR:80:PRO:HD2	1.97	0.47
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	2.30	0.47
20:AT:33:ILE:HG21	20:AT:63:ILE:HG12	1.97	0.47
1:CA:1253:G:C2	1:CA:1254:C:C2	3.02	0.47
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.50	0.47
52:DT:134:GLU:O	52:DT:135:ALA:CB	2.62	0.47
19:CS:48:THR:HG22	19:CS:61:TYR:HD1	1.80	0.47
35:DA:2839:G:H2'	35:DA:2840:C:H6	1.79	0.47
35:BA:519:U:O2'	35:BA:520:G:H5'	2.15	0.47
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.80	0.47
24:AY:635:GLU:HA	24:AY:636:PRO:HD2	1.74	0.47
35:BA:1416:G:O2'	35:BA:1417:C:H5	1.98	0.47
26:D1:4:VAL:HG22	26:D1:5:CYS:N	2.30	0.47
18:CR:26:LEU:HD21	18:CR:42:ARG:NH1	2.30	0.47
1:AA:1010:G:C6	1:AA:1020:U:H1'	2.50	0.47
24:AY:359:HIS:C	24:AY:361:ASN:H	2.18	0.47
50:BR:26:LYS:HE2	50:BR:71:GLN:H	1.79	0.47
8:CH:29:SER:OG	8:CH:32:LYS:HG3	2.15	0.47
31:D6:33:LYS:HG2	31:D6:34:LEU:H	1.80	0.47
35:BA:325:G:H2'	35:BA:326:G:H8	1.80	0.47
1:AA:1485:U:O2'	1:AA:1486:G:H5'	2.15	0.47
1:CA:830:G:H2'	1:CA:831:U:C6	2.50	0.47
38:DD:55:GLY:O	38:DD:216:GLY:HA2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:615:GLU:OE2	24:CY:666:ARG:NH2	2.48	0.47
1:CA:836:G:C6	1:CA:851:G:C6	3.03	0.47
1:AA:337:C:H2'	1:AA:338:A:H8	1.79	0.47
3:AC:69:HIS:HA	3:AC:104:GLN:HB2	1.97	0.47
35:DA:834:C:O2'	35:DA:835:A:H5'	2.15	0.47
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.96	0.47
35:DA:1688:U:O2	35:DA:1700:A:H5''	2.15	0.47
29:B4:1:MET:CE	41:BG:66:GLN:OE1	2.63	0.46
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.15	0.46
35:DA:1326:U:H5''	35:DA:2011:U:H1'	1.96	0.46
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.61	0.46
24:AY:182:ARG:HH11	24:AY:182:ARG:HG3	1.80	0.46
40:BF:3:GLU:CB	40:BF:24:LEU:HG	2.43	0.46
40:BF:2:LYS:CG	40:BF:25:PRO:HG2	2.45	0.46
53:DU:83:LEU:CD1	53:DU:83:LEU:N	2.73	0.46
53:BU:66:ASN:O	53:BU:68:ALA:N	2.48	0.46
35:BA:1045:A:O2'	35:BA:1047:G:C5	2.68	0.46
35:BA:2476:A:C2	35:BA:2477:C:C6	3.03	0.46
58:DZ:61:LEU:N	58:DZ:65:GLN:O	2.43	0.46
35:DA:345:A:O2'	35:DA:346:A:N7	2.47	0.46
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.15	0.46
57:BY:37:VAL:HG23	57:BY:38:ILE:N	2.30	0.46
40:DF:18:ARG:CZ	40:DF:199:TRP:CZ3	2.98	0.46
27:B2:69:ARG:HH12	35:BA:111:A:H5'	1.79	0.46
31:D6:9:LEU:HD13	31:D6:9:LEU:O	2.15	0.46
33:D8:48:PHE:HB3	33:D8:49:VAL:H	1.45	0.46
35:DA:2393:A:H5'	48:DP:60:MET:O	2.15	0.46
10:CJ:79:ARG:HH11	10:CJ:79:ARG:N	2.13	0.46
19:AS:5:LEU:HG	19:AS:10:PHE:HD1	1.80	0.46
24:CY:216:LEU:O	24:CY:220:ALA:N	2.46	0.46
30:B5:51:TYR:HD2	30:B5:52:TYR:H	1.62	0.46
47:DO:114:ILE:H	47:DO:114:ILE:CD1	2.22	0.46
24:CY:34:TYR:O	24:CY:38:ARG:HB2	2.15	0.46
31:D6:43:CYS:CB	31:D6:44:ARG:HH21	2.23	0.46
24:AY:74:TRP:NE1	24:AY:273:LEU:HB3	2.30	0.46
35:BA:271(J):C:C2'	35:BA:271(J):C:O2	2.63	0.46
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.16	0.46
27:D2:69:ARG:HH22	35:DA:111:A:C4'	2.28	0.46
33:B8:4:MET:O	33:B8:62:LEU:CD1	2.60	0.46
48:BP:106:LEU:HD11	48:BP:112:LEU:HD23	1.97	0.46
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2820:A:HO2'	35:BA:2821:A:P	2.36	0.46
39:DE:68:ALA:O	39:DE:70:ALA:N	2.48	0.46
39:BE:68:ALA:HB3	39:BE:69:LYS:HE2	1.98	0.46
35:DA:2137:C:O2'	35:DA:2138:C:H5'	2.15	0.46
52:DT:118:ARG:HA	52:DT:121:ILE:CB	2.40	0.46
29:D4:14:ILE:HD13	29:D4:22:ILE:C	2.36	0.46
3:AC:78:GLY:HA3	3:AC:83:ARG:HB3	1.96	0.46
35:DA:2001:A:H4'	35:DA:2689:U:H2'	1.98	0.46
22:CW:8:U:H3	22:CW:14:A:H62	1.62	0.46
2:AB:86:GLU:C	2:AB:88:ALA:N	2.68	0.46
24:AY:289:ILE:CD1	24:AY:331:TYR:CZ	2.97	0.46
5:AE:53:LEU:O	5:AE:56:GLN:HB3	2.15	0.46
5:CE:8:GLU:HA	5:CE:34:VAL:HA	1.96	0.46
1:CA:965:A:C2	1:CA:969:A:N1	2.83	0.46
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.95	0.46
25:D0:51:VAL:HG22	25:D0:81:VAL:CG2	2.43	0.46
42:BH:41:MET:HE2	42:BH:42:ARG:C	2.36	0.46
30:D5:36:CYS:SG	30:D5:49:CYS:HB3	2.55	0.46
46:DN:87:LEU:O	46:DN:88:GLU:C	2.53	0.46
46:DN:90:MET:HB3	46:DN:98:VAL:HG22	1.97	0.46
26:D1:81:LYS:HZ3	35:DA:271(H):G:H5''	1.79	0.46
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.80	0.46
52:DT:102:ILE:HB	52:DT:110:ILE:CD1	2.45	0.46
24:CY:530:VAL:HG13	24:CY:531:GLY:N	2.29	0.46
35:DA:797:C:P	40:DF:62:ARG:HG3	2.55	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.29	0.46
44:BK:93:ARG:HD2	44:BK:93:ARG:C	2.35	0.46
58:BZ:144:LEU:HD11	58:BZ:150:LEU:HD22	1.96	0.46
13:AM:22:ILE:N	13:AM:22:ILE:HD12	2.30	0.46
13:AM:45:VAL:HA	13:AM:48:LEU:CD1	2.45	0.46
19:CS:11:VAL:HG13	19:CS:11:VAL:O	2.16	0.46
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.45	0.46
35:DA:1448:G:N3	35:DA:1528(A):A:H2	2.13	0.46
10:CJ:61:GLU:HG3	14:CN:58:LYS:HZ3	1.80	0.46
1:CA:308:C:H2'	1:CA:309:G:H8	1.80	0.46
9:AI:10:ARG:CZ	9:AI:105:ASP:OD2	2.63	0.46
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.78	0.46
35:DA:894:C:C2'	35:DA:895:U:H5'	2.46	0.46
49:DQ:21:THR:CG2	49:DQ:101:ARG:HB2	2.44	0.46
4:CD:165:MET:HE2	4:CD:176:LEU:CD2	2.46	0.46
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.97	0.46
24:CY:319:ASP:OD2	24:CY:322:VAL:HG22	2.15	0.46
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.16	0.46
35:DA:733:G:O6	35:DA:761:A:C8	2.68	0.46
3:CC:136:GLN:O	3:CC:137:ALA:C	2.52	0.46
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.44	0.46
5:AE:144:THR:O	5:AE:145:LYS:C	2.53	0.46
5:AE:72:GLN:O	5:AE:73:ASN:HB2	2.15	0.46
37:BC:79:ALA:O	37:BC:120:VAL:HG11	2.15	0.46
35:DA:604:G:O2'	35:DA:605:C:H5'	2.15	0.46
20:CT:86:ARG:NH1	20:CT:86:ARG:HG3	2.30	0.46
35:DA:725:G:C6	35:DA:726:G:N1	2.83	0.46
50:BR:44:LEU:HD13	50:BR:44:LEU:C	2.35	0.46
3:CC:115:LEU:O	3:CC:116:VAL:C	2.54	0.46
22:AW:51:U:H3	22:AW:65:G:H1	1.63	0.46
1:AA:8:A:C6	4:AD:209:ARG:HB2	2.50	0.46
57:DY:68:HIS:CB	57:DY:71:LYS:HZ3	2.28	0.46
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.15	0.46
35:DA:1843:C:H2'	35:DA:1844:C:H6	1.78	0.46
35:DA:1362:C:H2'	35:DA:1363:C:H6	1.80	0.46
55:DW:25:ARG:HB2	55:DW:25:ARG:NH1	2.30	0.46
51:DS:42:ASP:O	51:DS:43:GLU:HB2	2.15	0.46
18:CR:40:LEU:C	18:CR:42:ARG:H	2.19	0.46
1:AA:1010:G:N1	1:AA:1020:U:H1'	2.30	0.46
7:AG:92:SER:O	7:AG:93:PRO:C	2.52	0.46
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.97	0.46
17:CQ:45:HIS:CG	17:CQ:65:ILE:HD13	2.50	0.46
1:AA:1458:G:C6	1:AA:1459:C:C4	3.03	0.46
35:BA:1680:U:H2'	35:BA:1681:G:O4'	2.14	0.46
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.46	0.46
35:BA:718:A:H2'	35:BA:719:C:O4'	2.16	0.46
41:BG:9:ARG:HD3	41:BG:13:GLU:OE1	2.15	0.46
32:B7:12:ARG:HH11	32:B7:12:ARG:HG3	1.79	0.46
16:CP:2:VAL:O	16:CP:2:VAL:HG22	2.14	0.46
35:BA:1555:G:H2'	35:BA:1555:G:N3	2.30	0.46
50:BR:51:LEU:HD12	50:BR:51:LEU:H	1.80	0.46
24:AY:625:ASN:C	24:AY:627:ARG:H	2.18	0.46
41:BG:98:ARG:O	41:BG:102:PHE:HB2	2.14	0.46
41:BG:61:ALA:O	41:BG:65:GLY:N	2.48	0.46
35:DA:2012:G:H4'	55:DW:96:ILE:CD1	2.19	0.46
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:122:TRP:CD1	24:AY:122:TRP:C	2.88	0.46
24:AY:227:ILE:CD1	24:AY:242:LEU:HA	2.45	0.46
35:BA:996:A:H2'	35:BA:997:G:H8	1.80	0.46
53:BU:90:VAL:O	53:BU:91:ASP:C	2.53	0.46
54:BV:38:LEU:C	54:BV:39:LEU:HD13	2.34	0.46
31:B6:8:LYS:CE	31:B6:25:LYS:HD3	2.35	0.46
31:B6:5:VAL:HG22	35:BA:2283:C:OP1	2.15	0.46
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.96	0.46
33:D8:50:LEU:C	33:D8:53:PRO:CD	2.83	0.46
35:DA:833:U:O2	48:DP:55:ARG:NH1	2.47	0.46
35:DA:2312:U:H2'	41:DG:40:ASN:OD1	2.16	0.46
57:BY:84:ARG:HD2	57:BY:97:ARG:HD2	1.97	0.46
5:AE:78:HIS:CE1	5:AE:80:ILE:HG23	2.50	0.46
3:CC:82:GLU:N	3:CC:82:GLU:OE2	2.49	0.46
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.97	0.46
35:DA:1263:U:C4	35:DA:1264:G:C6	3.03	0.46
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.14	0.46
41:BG:164:GLU:O	41:BG:165:THR:HG23	2.15	0.46
41:BG:172:LEU:HD23	41:BG:172:LEU:C	2.35	0.46
51:BS:104:GLY:C	51:BS:106:ARG:N	2.67	0.46
5:CE:143:ARG:HA	5:CE:143:ARG:HD3	1.72	0.46
35:DA:1081:U:H4'	44:DK:117:THR:HG21	1.96	0.46
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.81	0.46
44:DK:108:ALA:O	44:DK:112:MET:HB3	2.15	0.46
35:DA:1783:A:C2	35:DA:2587:A:C4	3.04	0.46
48:DP:29:LYS:HB3	48:DP:34:GLY:H	1.80	0.46
26:B1:94:LEU:O	26:B1:96:LYS:N	2.48	0.46
46:BN:134:ARG:O	46:BN:134:ARG:HG3	2.16	0.46
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.96	0.46
44:BK:99:ILE:O	44:BK:139:VAL:N	2.47	0.46
41:DG:131:TYR:HE2	41:DG:133:LEU:CD2	2.25	0.46
46:BN:57:ALA:O	46:BN:58:ASP:O	2.32	0.46
51:DS:89:ARG:NH1	51:DS:89:ARG:HG2	2.28	0.46
27:B2:37:PHE:O	27:B2:41:ILE:HG23	2.14	0.46
35:DA:2712:U:O2'	35:DA:2712(A):A:C8	2.43	0.46
20:CT:30:LYS:HZ2	20:CT:34:LYS:CE	2.29	0.46
2:AB:189:ASP:OD2	2:AB:205:ASP:OD1	2.33	0.46
24:AY:337:SER:HB2	24:AY:355:LEU:HD23	1.98	0.46
27:D2:4:SER:O	27:D2:5:GLU:C	2.54	0.46
35:BA:2190:G:O2'	35:BA:2191:G:H5'	2.16	0.46
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:19:VAL:HG13	19:CS:44:MET:HG2	1.96	0.46
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.15	0.46
49:BQ:56:ARG:CA	49:BQ:56:ARG:NE	2.75	0.46
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.97	0.46
12:CL:42:THR:HG23	12:CL:42:THR:O	2.14	0.46
42:DH:33:LEU:HD21	42:DH:136:ILE:HG22	1.96	0.46
12:CL:92:ASP:O	12:CL:94:PRO:HD3	2.14	0.46
38:DD:26:LYS:O	38:DD:27:THR:HB	2.15	0.46
35:DA:2389:G:C5'	35:DA:2390:U:H5'	2.39	0.46
10:AJ:63:PHE:HB2	14:AN:57:ARG:O	2.15	0.46
41:DG:7:LEU:O	41:DG:8:LYS:C	2.53	0.46
40:DF:160:ASN:HD21	40:DF:162:LEU:CD1	2.28	0.46
58:BZ:24:LEU:HD21	58:BZ:86:VAL:HG23	1.96	0.46
53:BU:21:ALA:HA	53:BU:24:TYR:CD1	2.50	0.46
36:BB:66:A:N6	36:BB:108:U:H2'	2.23	0.46
51:DS:47:THR:CG2	51:DS:49:VAL:O	2.63	0.46
37:BC:86:GLU:O	37:BC:90:ALA:HB2	2.16	0.46
46:DN:65:LYS:NZ	46:DN:65:LYS:CB	2.78	0.46
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.78	0.46
1:AA:190:U:O2	20:AT:105:SER:HB2	2.15	0.46
24:CY:255:ILE:CG1	24:CY:256:THR:N	2.78	0.46
1:CA:1030:C:N4	1:CA:1032:G:C2	2.83	0.46
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.15	0.46
35:DA:1275:A:C4	50:DR:16:HIS:ND1	2.83	0.46
46:BN:26:LEU:HD12	46:BN:26:LEU:O	2.15	0.46
28:B3:19:GLN:O	28:B3:22:ALA:HB3	2.16	0.46
24:AY:605:ILE:HD11	24:AY:677:GLN:HG2	1.97	0.46
35:DA:958:U:C6	35:DA:958:U:C3'	2.99	0.46
35:DA:2521:C:H2'	35:DA:2521:C:O2	2.14	0.46
38:DD:53:PHE:HA	38:DD:218:ARG:HB2	1.98	0.46
27:B2:24:LEU:O	27:B2:27:GLU:HB2	2.15	0.46
24:CY:314:PHE:O	24:CY:315:LYS:HB2	2.15	0.46
2:AB:233:SER:CB	2:AB:234:PRO:HD2	2.44	0.46
3:AC:136:GLN:O	3:AC:137:ALA:C	2.52	0.46
21:CU:2:GLY:C	21:CU:4:GLY:N	2.69	0.46
48:BP:122:PRO:HA	48:BP:141:ALA:O	2.16	0.46
57:BY:52:SER:N	57:BY:53:PRO:HD2	2.30	0.46
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.45	0.46
40:DF:38:ARG:O	40:DF:42:ALA:CB	2.62	0.46
35:DA:1237:A:O2'	35:DA:1238:G:P	2.73	0.46
38:DD:9:TYR:CD2	38:DD:10:THR:HG22	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.48	0.46
35:BA:134:C:O2'	35:BA:135:G:H5'	2.15	0.46
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.45	0.46
35:DA:1353:A:H4'	38:DD:38:LYS:HE3	1.96	0.46
35:DA:1472:A:O2'	35:DA:1473:G:H5'	2.15	0.46
37:BC:185:LYS:HE3	37:BC:185:LYS:CA	2.45	0.46
35:BA:205:G:O2'	35:BA:206:U:OP2	2.31	0.46
35:BA:2845:G:O5'	35:BA:2845:G:H8	1.97	0.46
1:CA:620:C:H2'	1:CA:621:A:C8	2.50	0.46
35:DA:247:G:H4'	35:DA:386:G:C5	2.49	0.46
58:BZ:127:LYS:O	58:BZ:128:VAL:HB	2.16	0.46
7:AG:18:TYR:HD2	7:AG:59:LEU:HD13	1.79	0.46
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.80	0.46
1:AA:719:C:O2	18:AR:50:ILE:HG12	2.15	0.46
35:DA:1630:G:C2	35:DA:1637:A:C2	3.03	0.46
2:AB:229:VAL:HG12	2:AB:230:VAL:N	2.31	0.46
12:AL:58:VAL:O	12:AL:65:GLU:HA	2.14	0.46
51:DS:11:LYS:N	51:DS:11:LYS:HD2	2.29	0.46
35:DA:1770:G:C2'	35:DA:1771:C:H5'	2.45	0.46
16:CP:27:LYS:HG2	16:CP:30:GLY:HA3	1.97	0.46
40:DF:26:ALA:O	40:DF:27:GLU:HG3	2.15	0.46
29:B4:9:LEU:HD13	29:B4:10:VAL:H	1.79	0.46
29:B4:9:LEU:HD12	29:B4:10:VAL:H	1.81	0.46
41:BG:181:ARG:O	41:BG:182:LYS:C	2.54	0.46
4:CD:13:ARG:O	4:CD:14:ARG:C	2.54	0.46
53:BU:53:ARG:O	53:BU:56:ASP:N	2.37	0.46
53:BU:53:ARG:CA	53:BU:56:ASP:OD2	2.60	0.46
1:CA:794:A:O2'	1:CA:795:C:H5'	2.15	0.46
35:DA:336:C:H4'	57:DY:7:VAL:CG2	2.45	0.46
31:D6:27:LYS:CD	31:D6:30:THR:HB	2.44	0.46
31:D6:54:ILE:O	31:D6:54:ILE:CG1	2.63	0.46
35:DA:665:C:O2'	35:DA:666:G:H5'	2.15	0.46
41:DG:72:ARG:HB3	41:DG:87:PRO:HD2	1.96	0.46
5:AE:101:ILE:HD11	5:AE:119:LEU:CD2	2.46	0.46
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.45	0.46
35:BA:747:U:O2'	55:BW:88:ARG:HG3	2.16	0.46
41:BG:173:LEU:O	41:BG:178:PHE:HD1	1.99	0.46
35:BA:2291:U:OP1	35:BA:2380:C:O2'	2.33	0.46
35:BA:2291:U:O2'	35:BA:2292:C:H5'	2.14	0.46
51:BS:35:ILE:HD11	51:BS:99:LYS:HE3	1.97	0.46
31:D6:43:CYS:O	31:D6:44:ARG:NE	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:101:ILE:HD11	5:CE:119:LEU:CD2	2.45	0.46
24:AY:277:VAL:HG13	24:AY:278:ASP:N	2.31	0.46
46:BN:15:LEU:CD2	46:BN:53:VAL:HB	2.45	0.46
48:DP:106:LEU:HD21	48:DP:112:LEU:HG	1.97	0.46
48:BP:100:LEU:HD22	48:BP:100:LEU:N	2.30	0.46
2:CB:204:ASN:C	2:CB:204:ASN:ND2	2.62	0.46
26:B1:44:PRO:HG2	26:B1:46:LEU:HD11	1.97	0.46
50:DR:97:VAL:HG13	50:DR:114:VAL:CG2	2.46	0.46
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.15	0.46
34:D9:17:ILE:HG22	34:D9:18:ARG:H	1.80	0.46
42:DH:65:HIS:HE1	42:DH:69:ARG:NH1	2.10	0.46
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.15	0.46
42:BH:65:HIS:HE1	42:BH:69:ARG:NH1	2.14	0.46
24:CY:631:ILE:O	24:CY:632:LEU:HD23	2.15	0.46
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.44	0.46
46:BN:61:ARG:HG3	46:BN:61:ARG:HH11	1.81	0.46
35:DA:2291:U:O2'	35:DA:2292:C:H5'	2.14	0.46
46:DN:57:ALA:O	46:DN:58:ASP:O	2.33	0.46
41:DG:34:LEU:CD1	41:DG:34:LEU:H	2.17	0.46
30:B5:36:CYS:SG	30:B5:49:CYS:HB3	2.54	0.46
1:CA:322:C:H4'	20:CT:23:ARG:HD2	1.97	0.46
3:AC:80:GLY:HA3	3:AC:82:GLU:OE1	2.15	0.46
35:BA:360:G:H2'	35:BA:361:G:H8	1.80	0.46
1:AA:108:G:N2	1:AA:109:A:C2	2.83	0.46
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.50	0.46
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.44	0.46
2:CB:222:ILE:HB	2:CB:226:ARG:NH2	2.28	0.46
35:DA:614:U:H2'	35:DA:614(A):U:O4'	2.15	0.46
49:BQ:55:VAL:HG12	49:BQ:56:ARG:H	1.80	0.46
52:DT:53:ARG:O	52:DT:59:THR:HB	2.15	0.46
52:DT:10:VAL:O	52:DT:11:GLU:C	2.53	0.46
52:BT:50:ILE:HG23	52:BT:99:LEU:O	2.16	0.46
50:BR:9:LYS:O	50:BR:10:LEU:CD2	2.60	0.46
38:BD:92:ILE:HD13	38:BD:92:ILE:H	1.79	0.46
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.88	0.46
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.78	0.46
58:BZ:41:LEU:O	58:BZ:42:VAL:C	2.53	0.46
1:AA:182:U:H5'	1:AA:183:G:P	2.55	0.46
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.33	0.46
13:AM:99:ARG:O	13:AM:100:GLY:C	2.53	0.46
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:82:G:HO2'	36:DB:83:G:H5'	1.81	0.46
24:CY:18:ALA:O	24:CY:106:VAL:HA	2.15	0.46
35:BA:754:C:H2'	35:BA:755:C:C6	2.50	0.46
1:AA:276:G:O2'	1:AA:277:C:H5'	2.15	0.46
35:DA:176:G:C2'	35:DA:177:G:H5'	2.44	0.46
35:BA:578:A:H5'	35:BA:1254:A:OP1	2.16	0.46
35:BA:1721:G:O6	35:BA:1739:U:H5'	2.15	0.46
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.96	0.46
1:AA:1164:G:O2'	1:AA:1165:C:H5'	2.15	0.46
1:CA:357:G:O2'	1:CA:358:U:H5'	2.15	0.46
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.28	0.46
3:AC:138:VAL:O	3:AC:140:ARG:N	2.49	0.46
47:DO:64:ARG:NH1	47:DO:83:ALA:HB2	2.30	0.46
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.80	0.46
32:D7:12:ARG:HG3	32:D7:12:ARG:HH11	1.80	0.46
35:DA:1718:G:C5'	35:DA:1718:G:H8	2.26	0.46
44:BK:37:PHE:C	44:BK:39:LYS:H	2.17	0.46
37:DC:46:ALA:HA	37:DC:212:SER:O	2.15	0.46
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.45	0.46
35:DA:484:C:O2'	35:DA:485:C:H5'	2.15	0.46
1:AA:203:U:H5'	1:AA:216:G:N2	2.30	0.46
1:CA:98:G:H2'	1:CA:99:U:O4'	2.15	0.46
1:AA:773:G:C2'	1:AA:774:G:H5'	2.46	0.46
38:BD:148:GLU:HB2	38:BD:151:LYS:CG	2.45	0.46
24:CY:636:PRO:HG3	44:DK:20:ALA:HB1	1.97	0.46
1:CA:1010:G:C6	1:CA:1020:U:H1'	2.50	0.46
37:DC:60:ARG:HG3	37:DC:165:ARG:HG3	1.97	0.46
8:CH:32:LYS:C	8:CH:34:GLU:N	2.68	0.46
7:CG:44:TYR:HA	7:CG:47:CYS:SG	2.55	0.46
35:BA:602:G:C2	35:BA:656:G:C6	3.03	0.46
57:DY:56:PRO:O	57:DY:57:GLN:HB3	2.16	0.46
9:CI:56:LEU:C	9:CI:56:LEU:HD23	2.35	0.46
3:CC:187:ALA:C	3:CC:188:LEU:HD22	2.36	0.46
38:DD:138:VAL:HA	38:DD:165:ILE:HG21	1.98	0.46
4:CD:191:ARG:O	4:CD:191:ARG:NH1	2.49	0.46
35:BA:975:C:OP2	35:BA:975:C:H4'	2.16	0.46
24:CY:527:ASN:HD22	24:CY:527:ASN:C	2.18	0.46
52:BT:137:LYS:HG2	52:BT:138:ALA:N	2.30	0.46
35:BA:487:C:H1'	55:BW:53:SER:HA	1.95	0.46
58:DZ:92:SER:HB3	58:DZ:93:ASP:H	1.47	0.46
38:DD:197:GLY:O	38:DD:198:ASN:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:42:VAL:O	57:BY:65:ALA:N	2.39	0.46
40:DF:2:LYS:CG	40:DF:25:PRO:HG2	2.45	0.46
29:B4:2:LYS:HB2	36:BB:40:U:O4	2.16	0.46
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.98	0.46
24:CY:92:ILE:HD13	24:CY:93:GLU:N	2.31	0.46
40:BF:101:LEU:O	40:BF:106:ARG:NH1	2.49	0.46
53:BU:55:ARG:HA	53:BU:58:ARG:HB2	1.98	0.46
53:BU:98:LEU:O	53:BU:106:PHE:HB2	2.16	0.46
35:DA:302:C:H2'	35:DA:303:U:H6	1.78	0.46
57:DY:38:ILE:CG2	57:DY:39:VAL:N	2.78	0.46
35:BA:272(G):C:C3'	35:BA:272(H):C:H5''	2.45	0.46
35:BA:1485:G:H1'	35:BA:1505:C:N4	2.23	0.46
31:D6:8:LYS:O	31:D6:9:LEU:O	2.32	0.46
33:D8:48:PHE:O	33:D8:49:VAL:CG1	2.58	0.46
33:D8:50:LEU:C	33:D8:52:LYS:H	2.17	0.46
1:CA:1003:G:H1'	1:CA:1039:C:O2	2.15	0.46
3:CC:52:LEU:HD12	3:CC:55:VAL:HG22	1.97	0.46
1:CA:1237:C:H3'	1:CA:1336:C:N4	2.31	0.46
40:DF:126:VAL:HG23	40:DF:127:GLU:N	2.31	0.46
35:BA:2523:G:C3'	35:BA:2524:G:H5''	2.45	0.46
35:DA:1260:G:H2'	35:DA:1261:C:C6	2.49	0.46
35:DA:27:G:H1'	35:DA:513:A:H62	1.80	0.46
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.81	0.46
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.16	0.46
48:BP:106:LEU:HD21	48:BP:112:LEU:HG	1.97	0.46
2:CB:208:ILE:O	2:CB:212:GLN:HB2	2.15	0.46
44:BK:100:THR:CA	44:BK:139:VAL:HB	2.41	0.46
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.73	0.46
39:DE:51:PHE:N	39:DE:74:PRO:HG3	2.30	0.46
39:DE:31:CYS:C	39:DE:90:THR:HG23	2.35	0.46
51:DS:70:GLY:CA	51:DS:101:LEU:HD23	2.46	0.46
1:AA:720:C:C3'	1:AA:721:G:H5''	2.35	0.46
22:CW:50:G:C2	22:CW:51:U:C2	3.03	0.46
54:BV:31:ALA:C	54:BV:61:VAL:HG12	2.36	0.46
24:AY:100:VAL:HG13	24:AY:101:LEU:H	1.81	0.46
24:AY:71:THR:HA	24:AY:79:ILE:O	2.16	0.46
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.15	0.46
52:BT:29:ARG:HG3	52:BT:30:VAL:HG13	1.97	0.46
52:BT:29:ARG:HG2	52:BT:85:LYS:HA	1.96	0.46
49:BQ:43:THR:HB	49:BQ:45:GLN:HE21	1.80	0.46
35:BA:1952:A:C2	47:BO:22:ILE:HG23	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.37	0.46
24:CY:170:ARG:O	24:CY:171:GLU:HG3	2.15	0.46
46:BN:90:MET:HB3	46:BN:98:VAL:HG22	1.97	0.46
24:CY:491:VAL:CG1	24:CY:492:ASP:N	2.65	0.46
24:CY:510:VAL:HG12	24:CY:511:LYS:N	2.30	0.46
24:CY:487:ILE:CG2	24:CY:594:VAL:HG13	2.43	0.46
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.16	0.46
4:AD:194:LEU:HB3	4:AD:196:LEU:CD1	2.36	0.46
47:DO:69:ILE:HB	47:DO:77:ILE:HG22	1.98	0.46
27:D2:31:GLU:HB3	27:D2:53:LEU:HD11	1.98	0.46
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.96	0.46
35:BA:1448:G:N3	35:BA:1528(A):A:H2	2.13	0.46
35:BA:1528:A:O2'	35:BA:1528(A):A:O5'	2.32	0.46
24:CY:30:GLU:O	24:CY:31:ARG:NH1	2.49	0.46
12:AL:28:LYS:HB2	12:AL:33:ARG:HH22	1.81	0.46
35:BA:827:U:H2'	35:BA:2068:U:O2	2.15	0.46
24:AY:379:GLY:O	24:AY:380:LEU:O	2.33	0.46
19:CS:7:LYS:HA	19:CS:7:LYS:HD3	1.72	0.46
3:AC:3:ASN:N	3:AC:3:ASN:OD1	2.48	0.46
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.45	0.46
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.96	0.46
42:BH:138:LYS:C	42:BH:140:LYS:N	2.69	0.46
4:AD:57:ARG:NH1	4:AD:205:GLU:OE2	2.48	0.46
35:BA:1851:U:H2'	35:BA:1852:C:O4'	2.16	0.46
56:BX:43:VAL:C	56:BX:45:THR:H	2.18	0.46
50:BR:7:GLY:C	50:BR:8:ARG:HE	2.19	0.46
41:DG:20:ILE:O	41:DG:24:GLY:N	2.48	0.46
35:DA:2406:U:C2	48:DP:72:PRO:HB2	2.50	0.46
35:DA:775:G:O6	35:DA:787:U:H2'	2.15	0.46
25:B0:20:ARG:CG	25:B0:20:ARG:HH11	2.29	0.46
5:AE:155:GLU:N	8:AH:64:LYS:HE2	2.31	0.46
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.28	0.46
35:BA:2406:U:N3	48:BP:72:PRO:HB2	2.30	0.46
11:CK:34:ASP:CB	11:CK:35:PRO:CD	2.92	0.46
35:BA:729:G:O2'	35:BA:763:G:H4'	2.15	0.46
4:CD:187:ARG:HH11	4:CD:187:ARG:HG2	1.80	0.46
53:BU:82:GLY:O	53:BU:84:LYS:N	2.48	0.46
26:D1:3:LYS:HD2	26:D1:3:LYS:HA	1.67	0.46
35:BA:79:G:O2'	35:BA:80:G:H5'	2.15	0.46
1:AA:759:A:C2'	1:AA:760:G:H5'	2.45	0.46
8:AH:32:LYS:C	8:AH:34:GLU:N	2.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:329:A:H3'	1:CA:330:C:C5'	2.45	0.46
1:AA:1217:C:H2'	1:AA:1217:C:O2	2.15	0.46
35:DA:718:A:H3'	35:DA:719:C:H6	1.81	0.46
7:CG:47:CYS:HB3	7:CG:58:PRO:CB	2.46	0.46
1:CA:519:C:H2'	1:CA:520:A:O4'	2.15	0.46
1:CA:710:G:O2'	1:CA:711:G:H5'	2.15	0.46
1:CA:17:U:H2'	1:CA:18:C:C6	2.50	0.46
7:AG:97:GLN:O	7:AG:98:SER:C	2.53	0.46
43:DJ:103:UNK:HA	43:DJ:111:UNK:CB	2.45	0.46
21:CU:9:ARG:HH11	21:CU:22:ARG:HG3	1.80	0.46
1:CA:756:C:H2'	1:CA:757:U:O4'	2.15	0.46
56:DX:90:GLU:HA	56:DX:93:GLU:HG2	1.97	0.46
4:CD:144:ASP:O	4:CD:184:LYS:HA	2.15	0.46
35:BA:2081:C:H2'	35:BA:2082:A:H8	1.79	0.46
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.16	0.46
35:DA:128:C:O2'	35:DA:129:C:O5'	2.31	0.46
29:B4:37:SER:OG	41:BG:108:ASN:HA	2.15	0.46
53:DU:113:ALA:O	53:DU:115:ALA:N	2.48	0.46
35:DA:997:G:OP1	53:DU:93:LYS:HD3	2.15	0.46
54:BV:47:VAL:O	54:BV:48:GLY:C	2.54	0.46
31:B6:54:ILE:O	31:B6:54:ILE:CG1	2.63	0.46
33:B8:53:PRO:HG2	33:B8:54:GLU:H	1.80	0.46
33:B8:28:GLY:H	35:BA:2393:A:P	2.39	0.46
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.30	0.46
57:BY:38:ILE:CG2	57:BY:39:VAL:N	2.78	0.46
31:D6:6:ARG:C	31:D6:7:ILE:CD1	2.83	0.46
30:B5:44:THR:HG21	50:BR:101:ALA:CB	2.30	0.46
31:B6:45:LYS:HG2	35:BA:2371:G:C4'	2.46	0.46
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.45	0.46
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.31	0.46
26:D1:76:ARG:CZ	26:D1:95:LEU:HD22	2.45	0.46
47:BO:60:ALA:CA	47:BO:87:ILE:HD11	2.45	0.46
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.16	0.46
1:AA:1321:C:C5'	1:AA:1322:C:C5'	2.92	0.46
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.98	0.46
39:BE:55:ASN:C	39:BE:57:LYS:H	2.17	0.46
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.46	0.46
35:BA:2745:C:C4	35:BA:2746:U:C4	3.04	0.46
35:DA:1494:A:O2'	35:DA:1495:A:C5'	2.53	0.46
35:DA:360:G:H2'	35:DA:361:G:H8	1.81	0.46
39:DE:68:ALA:HB3	39:DE:69:LYS:HE2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:31:CYS:C	39:BE:90:THR:HG23	2.36	0.46
39:BE:36:ARG:HH22	39:BE:88:GLY:H	1.64	0.46
39:BE:87:GLU:O	39:BE:88:GLY:C	2.53	0.46
52:DT:116:ALA:HB1	52:DT:121:ILE:HD11	1.98	0.46
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.50	0.46
35:DA:2820:A:C8	39:DE:191:PRO:CB	2.99	0.46
40:BF:74:ARG:O	40:BF:75:HIS:CG	2.68	0.46
52:BT:83:ILE:CG1	52:BT:84:GLN:N	2.75	0.46
58:DZ:163:LEU:HG	58:DZ:163:LEU:O	2.16	0.46
35:BA:1061:U:C4'	35:BA:1070:A:H1'	2.43	0.46
25:D0:37:LEU:HG	25:D0:60:PHE:HA	1.98	0.46
49:BQ:55:VAL:CG1	49:BQ:56:ARG:H	2.29	0.46
42:BH:53:GLU:CD	42:BH:54:ARG:H	2.19	0.46
26:B1:60:PHE:O	26:B1:62:VAL:HG12	2.15	0.46
13:CM:19:LEU:HD22	13:CM:19:LEU:N	2.29	0.46
50:BR:10:LEU:CD2	50:BR:17:ARG:HD3	2.43	0.46
9:AI:79:LEU:HD13	9:AI:83:ARG:CB	2.41	0.46
42:DH:20:ALA:CB	42:DH:21:PRO:CD	2.90	0.46
37:DC:29:LEU:O	37:DC:32:GLU:N	2.41	0.46
24:AY:196:ILE:CG1	24:AY:197:ARG:H	2.29	0.46
23:AX:16:A:O2'	23:AX:17:U:H5'	2.16	0.46
1:CA:608:A:C2'	1:CA:609:A:H5'	2.46	0.46
35:DA:817:C:H2'	35:DA:818:G:O4'	2.15	0.46
2:CB:83:MET:CG	2:CB:234:PRO:HG3	2.44	0.46
36:DB:15:A:H1'	36:DB:110:G:C5	2.51	0.46
12:AL:47:LYS:HB3	12:AL:47:LYS:NZ	2.31	0.46
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.98	0.46
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.16	0.46
35:BA:2454:G:H2'	35:BA:2455:G:H5'	1.97	0.46
1:AA:218:C:H5'	1:AA:470:C:H41	1.78	0.46
54:BV:64:HIS:ND1	54:BV:92:THR:CG2	2.79	0.46
35:BA:963:U:H2'	35:BA:964:C:C6	2.51	0.46
35:BA:177:G:H3'	35:BA:178:G:C8	2.51	0.46
22:AW:74:A:H2'	22:AW:75:C:C5'	2.46	0.46
24:CY:427:ALA:O	24:CY:431:LEU:HB2	2.16	0.46
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.15	0.46
3:CC:114:PRO:O	3:CC:118:GLN:OE1	2.34	0.46
35:BA:784:A:H5''	38:BD:227:ASN:HD21	1.80	0.46
20:CT:93:GLU:OE1	20:CT:94:ALA:N	2.49	0.46
57:DY:54:LYS:HZ3	57:DY:55:TYR:HE2	1.62	0.46
37:DC:191:ARG:HG3	37:DC:191:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:31:LYS:HZ1	38:DD:33:LEU:HB2	1.79	0.46
35:DA:2840:C:H5''	50:DR:53:HIS:CD2	2.51	0.46
35:DA:519:U:O2'	35:DA:520:G:H5'	2.16	0.46
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.46	0.46
35:BA:438:G:H2'	35:BA:440:G:H8	1.80	0.46
1:CA:651:C:H2'	1:CA:652:U:H6	1.80	0.46
35:BA:324:A:OP2	35:BA:1205:U:N3	2.48	0.46
1:CA:829:G:O2'	1:CA:830:G:H5'	2.15	0.46
48:BP:32:THR:CG2	48:BP:37:GLY:HA2	2.45	0.46
1:CA:1065:U:C2'	1:CA:1066:C:OP2	2.63	0.46
35:BA:2384:G:H2'	35:BA:2386:C:OP1	2.16	0.46
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.98	0.46
30:D5:39:MET:HG3	55:DW:34:ASN:ND2	2.31	0.46
48:DP:32:THR:HG22	48:DP:37:GLY:HA2	1.98	0.46
1:AA:756:C:H2'	1:AA:757:U:O4'	2.16	0.46
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.15	0.46
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.15	0.46
25:D0:34:GLY:O	25:D0:35:ASN:C	2.54	0.46
35:BA:1688:U:O2	35:BA:1700:A:H5''	2.15	0.46
24:CY:420:ASP:N	24:CY:420:ASP:OD2	2.48	0.46
35:DA:63:U:H4'	35:DA:63:U:OP1	2.16	0.46
2:AB:53:ARG:HG2	2:AB:53:ARG:O	2.15	0.46
38:BD:205:VAL:O	38:BD:206:LEU:C	2.54	0.46
56:BX:3:THR:O	56:BX:4:ALA:HB3	2.15	0.46
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.15	0.46
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.96	0.46
4:AD:13:ARG:O	4:AD:14:ARG:C	2.53	0.46
40:BF:24:LEU:CB	40:BF:25:PRO:HD2	2.39	0.46
40:BF:36:VAL:O	40:BF:39:TRP:HB3	2.15	0.46
53:DU:90:VAL:O	53:DU:91:ASP:C	2.54	0.46
54:DV:47:VAL:O	54:DV:48:GLY:C	2.54	0.46
22:AW:59:A:H2	22:AW:61:U:HO2'	1.62	0.46
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.57	0.46
31:B6:27:LYS:HB3	31:B6:32:ASN:HD21	1.74	0.46
58:DZ:41:LEU:HD23	58:DZ:41:LEU:HA	1.81	0.46
57:DY:14:LEU:HD13	57:DY:24:VAL:CG2	2.46	0.46
1:AA:1003:G:H1'	1:AA:1039:C:O2	2.16	0.46
26:D1:46:LEU:O	26:D1:47:GLN:NE2	2.47	0.46
52:DT:65:LYS:HA	52:DT:65:LYS:HZ2	1.76	0.46
31:B6:42:TRP:CH2	35:BA:643:A:N7	2.83	0.46
48:DP:16:ARG:CB	48:DP:16:ARG:HH11	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:47:THR:OG1	31:D6:48:VAL:N	2.48	0.46
3:CC:62:ASP:O	3:CC:64:VAL:N	2.48	0.46
39:DE:38:THR:OG1	39:DE:41:LYS:HE2	2.15	0.46
5:CE:53:LEU:O	5:CE:56:GLN:HB3	2.16	0.46
35:DA:2584:U:O2	35:DA:2584:U:O4'	2.33	0.46
26:B1:94:LEU:C	26:B1:96:LYS:N	2.69	0.46
48:DP:126:VAL:HG12	48:DP:148:LEU:HD21	1.98	0.46
48:BP:127:ALA:C	48:BP:148:LEU:HD11	2.36	0.46
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	2.04	0.46
35:DA:1819:A:O2'	35:DA:1820:U:OP2	2.33	0.46
1:CA:953:G:N7	13:CM:104:ARG:NH2	2.64	0.46
6:AF:67:MET:CE	6:AF:72:VAL:HA	2.45	0.46
18:CR:53:ARG:C	18:CR:55:ARG:H	2.17	0.46
26:D1:53:VAL:CG1	26:D1:90:ILE:HG21	2.46	0.46
38:DD:270:ILE:H	38:DD:270:ILE:HD12	1.79	0.46
13:CM:66:LEU:HA	13:CM:70:LEU:HD13	1.97	0.46
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.67	0.46
52:DT:64:ARG:HG2	52:DT:64:ARG:NH1	2.30	0.46
35:DA:94(A):G:H2'	35:DA:95:G:H5''	1.97	0.46
35:DA:797:C:H2'	35:DA:798:G:C8	2.51	0.46
1:AA:1343:G:H1'	9:AI:121:ARG:NH1	2.30	0.46
9:AI:125:TYR:HD2	9:AI:126:SER:N	2.14	0.46
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.66	0.46
12:AL:30:ALA:CB	12:AL:33:ARG:HH21	2.28	0.46
39:DE:92:THR:OG1	39:DE:95:ILE:HD11	2.15	0.46
35:DA:1577:C:H2'	35:DA:1578:U:O4'	2.15	0.46
35:DA:1107:G:OP1	43:DJ:59:UNK:N	2.49	0.46
1:CA:277:C:C2'	1:CA:278:G:H5'	2.46	0.46
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.45	0.46
50:BR:41:ALA:C	50:BR:43:GLU:N	2.69	0.46
3:CC:142:MET:HE2	3:CC:171:GLY:CA	2.42	0.46
37:DC:98:GLU:HA	37:DC:101:ILE:CD1	2.46	0.46
35:BA:755:C:H2'	35:BA:756:C:C6	2.51	0.46
24:AY:99:ARG:CZ	24:AY:128:TYR:HB2	2.44	0.46
56:DX:65:ARG:HG2	56:DX:66:LEU:N	2.31	0.46
35:DA:586:A:C2	35:DA:1254:A:C2	3.04	0.46
56:DX:43:VAL:C	56:DX:45:THR:H	2.19	0.46
4:CD:163:GLU:C	4:CD:165:MET:N	2.69	0.46
52:BT:62:THR:CG2	52:BT:75:ILE:HG13	2.46	0.46
35:BA:826:U:H5''	35:BA:2428:G:O3'	2.15	0.46
39:DE:6:GLY:HA2	39:DE:27:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1329:A:H4'	13:CM:24:GLY:O	2.16	0.46
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.15	0.46
35:DA:2105:C:N4	35:DA:2184:G:H1	2.12	0.46
35:BA:389:G:C6	48:BP:70:GLN:HG3	2.51	0.46
38:DD:229:VAL:HG23	38:DD:230:ASP:N	2.31	0.46
39:BE:101:ARG:HD3	39:BE:101:ARG:HA	1.66	0.46
1:AA:512:U:H2'	1:AA:513:C:C6	2.47	0.46
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.15	0.46
20:AT:93:GLU:OE1	20:AT:94:ALA:N	2.48	0.46
35:BA:45:C:OP2	35:BA:215:G:H5''	2.15	0.46
9:CI:55:ALA:HA	9:CI:58:HIS:HD2	1.80	0.46
24:AY:315:LYS:HZ3	24:AY:317:MET:HG2	1.80	0.46
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.84	0.46
1:AA:1253:G:C2	1:AA:1254:C:C2	3.04	0.46
46:BN:99:LEU:HD13	46:BN:99:LEU:C	2.36	0.46
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.62	0.46
1:CA:1416:G:H2'	1:CA:1417:G:C8	2.50	0.46
55:DW:41:LYS:C	55:DW:43:GLY:N	2.69	0.46
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.79	0.46
7:CG:84:ASN:N	7:CG:84:ASN:ND2	2.64	0.46
1:CA:424:G:O2'	1:CA:425:G:H5'	2.16	0.46
35:DA:2373:G:H2'	35:DA:2374:C:H6	1.80	0.46
35:DA:338:G:O2'	35:DA:339:U:H5'	2.16	0.46
44:BK:62:ASP:O	44:BK:63:ARG:HB2	2.16	0.46
35:DA:1310:G:C2'	35:DA:1311:G:H5'	2.46	0.46
19:CS:79:THR:CG2	19:CS:80:TYR:N	2.79	0.46
37:BC:60:ARG:HG3	37:BC:165:ARG:HG3	1.96	0.46
41:BG:152:LEU:HD23	41:BG:152:LEU:H	1.79	0.46
30:D5:22:HIS:HE1	35:DA:2624:G:H1'	1.79	0.46
56:DX:57:LEU:HD22	56:DX:57:LEU:O	2.15	0.46
35:DA:1771:C:H2'	35:DA:1772:G:C8	2.51	0.46
29:D4:35:VAL:HG12	29:D4:36:CYS:N	2.31	0.46
1:CA:341:C:C2	1:CA:349:A:C2	3.03	0.46
35:DA:430:G:H2'	35:DA:431:U:H5'	1.98	0.46
15:AO:31:LEU:H	15:AO:31:LEU:CD2	2.28	0.46
4:AD:54:TYR:O	4:AD:55:ALA:C	2.53	0.46
35:BA:1218:C:H2'	35:BA:1219:G:H8	1.79	0.46
46:BN:123:TYR:CD1	46:BN:123:TYR:N	2.83	0.46
43:DJ:51:UNK:CB	43:DJ:89:UNK:O	2.63	0.46
1:CA:311:C:H2'	1:CA:312:C:H6	1.81	0.46
41:BG:31:VAL:HG22	41:BG:32:PRO:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:97:ASP:CB	41:BG:98:ARG:NH1	2.75	0.46
35:DA:2645:G:C3'	35:DA:2646:C:C5'	2.85	0.46
24:AY:124:GLN:O	24:AY:127:LYS:HB3	2.16	0.46
24:AY:170:ARG:NH2	24:AY:205:TYR:HE1	2.13	0.46
24:AY:223:PHE:CZ	24:AY:249:GLY:HA3	2.51	0.46
24:AY:259:PHE:C	24:AY:260:LEU:HD13	2.35	0.46
35:DA:996:A:H2'	35:DA:997:G:H8	1.80	0.46
53:DU:98:LEU:O	53:DU:106:PHE:HB2	2.16	0.46
24:AY:487:ILE:CD1	24:AY:487:ILE:H	2.28	0.46
31:B6:22:ALA:C	31:B6:23:THR:HG23	2.36	0.46
33:B8:48:PHE:O	33:B8:49:VAL:CG2	2.60	0.46
19:CS:5:LEU:HG	19:CS:10:PHE:HD1	1.80	0.46
1:AA:1316:G:H4'	14:AN:18:VAL:HG12	1.97	0.46
3:CC:83:ARG:C	3:CC:85:ARG:N	2.69	0.46
31:D6:15:GLU:HG2	31:D6:16:CYS:O	2.15	0.46
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.98	0.46
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.45	0.46
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.15	0.46
35:BA:512:G:HO2'	35:BA:513:A:H8	1.64	0.46
46:BN:120:LEU:HD13	46:BN:121:LYS:N	2.31	0.46
48:DP:133:SER:O	48:DP:136:GLU:HG2	2.16	0.46
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.33	0.46
48:BP:144:GLU:O	48:BP:144:GLU:HG2	2.15	0.46
20:AT:16:HIS:O	20:AT:17:ARG:C	2.54	0.46
56:DX:34:ALA:HA	56:DX:38:GLU:OE2	2.16	0.46
2:AB:142:LEU:CD2	2:AB:146:GLN:NE2	2.79	0.46
39:DE:32:PRO:HA	39:DE:90:THR:HG23	1.97	0.46
35:BA:1015:G:H2'	35:BA:1016:G:C8	2.51	0.46
10:AJ:54:PHE:O	10:AJ:55:LYS:C	2.53	0.46
52:BT:92:GLY:C	52:BT:94:ALA:N	2.69	0.46
9:AI:114:TYR:CD2	9:AI:114:TYR:O	2.69	0.46
2:AB:51:LEU:CD2	2:AB:201:ILE:HG23	2.46	0.46
52:BT:82:LEU:CD2	52:BT:85:LYS:HD2	2.45	0.46
3:CC:40:ARG:HH11	3:CC:40:ARG:HG3	1.81	0.46
35:BA:2481:G:O2'	35:BA:2482:G:P	2.74	0.46
12:CL:41:ARG:CG	12:CL:42:THR:N	2.74	0.46
26:B1:12:PRO:HG3	35:BA:1365:A:C5'	2.45	0.46
44:DK:3:LYS:HB3	44:DK:3:LYS:HE3	1.78	0.46
52:DT:55:ASN:CG	52:DT:55:ASN:O	2.54	0.46
13:CM:23:TYR:HE1	13:CM:70:LEU:HD22	1.81	0.46
36:BB:64:C:O2'	36:BB:65:C:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:25:U:H2'	22:CW:26:C:H6	1.80	0.46
22:CW:25:U:H2'	22:CW:26:C:O4'	2.15	0.46
25:B0:40:GLN:NE2	25:B0:44:ARG:N	2.64	0.46
35:BA:1529:G:C2	35:BA:1541:G:N2	2.84	0.46
35:BA:1127:A:C2'	35:BA:1128:A:H5''	2.44	0.46
10:CJ:61:GLU:OE1	14:CN:49:HIS:CE1	2.62	0.46
39:BE:82:ARG:HH11	39:BE:82:ARG:HG3	1.81	0.46
35:DA:676:A:H1'	35:DA:2443:C:C1'	2.43	0.46
5:AE:100:VAL:CG2	5:AE:100:VAL:O	2.63	0.46
26:D1:65:SER:O	26:D1:68:PRO:HD2	2.16	0.46
20:CT:50:GLU:HB2	20:CT:100:ILE:HB	1.97	0.46
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.81	0.46
56:BX:65:ARG:HG2	56:BX:66:LEU:N	2.31	0.46
12:CL:80:HIS:O	12:CL:81:SER:CB	2.58	0.46
2:AB:95:GLN:HE21	2:AB:147:LYS:HE3	1.81	0.46
35:DA:958:U:C6	35:DA:958:U:H3'	2.50	0.46
35:BA:759:G:H2'	35:BA:760:G:C8	2.46	0.46
1:CA:66:G:H4'	1:CA:173:U:H5	1.74	0.46
55:DW:82:LEU:CD1	55:DW:82:LEU:N	2.78	0.46
35:DA:389:G:C6	48:DP:70:GLN:HG3	2.51	0.46
35:DA:2688:U:H5	35:DA:2720:U:OP1	1.99	0.46
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.16	0.46
35:DA:464:U:C4	35:DA:788:A:N7	2.84	0.46
51:BS:56:LEU:C	51:BS:58:LEU:H	2.19	0.46
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.51	0.46
29:B4:39:CYS:SG	29:B4:42:PHE:HE2	2.37	0.46
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.14	0.46
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.98	0.46
35:DA:1064:C:H5''	44:DK:86:LYS:HB2	1.98	0.46
35:DA:2740:A:C6	35:DA:2741:A:C6	3.04	0.46
24:CY:309:LEU:HA	24:CY:332:SER:O	2.16	0.46
35:BA:1101:U:H2'	35:BA:1102:C:C6	2.50	0.46
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.80	0.46
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.14	0.46
6:CF:15:ASP:C	6:CF:17:SER:H	2.18	0.46
35:BA:2193:G:H8	35:BA:2193:G:H5'	1.81	0.46
49:DQ:58:PHE:CD1	49:DQ:58:PHE:O	2.69	0.46
35:BA:2351:G:HO2'	35:BA:2352:A:H8	1.62	0.46
39:DE:108:SER:O	39:DE:109:LYS:C	2.54	0.46
38:BD:45:ASN:HB2	38:BD:46:GLN:OE1	2.15	0.46
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:640:C:C4	35:DA:641:C:N4	2.83	0.46
38:DD:205:VAL:O	38:DD:206:LEU:C	2.54	0.46
12:AL:51:ALA:O	12:AL:52:LEU:HD23	2.15	0.46
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.81	0.46
24:AY:251:ILE:HG22	24:AY:251:ILE:O	2.14	0.46
35:DA:1590:U:H2'	35:DA:1591:G:H8	1.80	0.46
42:BH:169:VAL:HG13	42:BH:170:ARG:H	1.80	0.46
10:AJ:3:LYS:N	10:AJ:75:ILE:O	2.49	0.46
4:CD:22:LYS:O	4:CD:113:SER:HB3	2.15	0.46
1:CA:981:U:H2'	1:CA:982:U:C5	2.50	0.46
1:AA:509:A:H3'	1:AA:510:A:C8	2.50	0.46
24:CY:92:ILE:HD13	24:CY:92:ILE:C	2.36	0.46
24:CY:92:ILE:HB	24:CY:405:PRO:HG2	1.98	0.46
23:CX:12:A:C2	23:CX:13:A:H5'	2.49	0.46
35:BA:1241:A:H2'	35:BA:1242:A:O4'	2.15	0.46
24:AY:414:GLU:HA	24:AY:415:PRO:HD2	1.74	0.46
57:DY:8:LYS:HE2	57:DY:72:VAL:O	2.16	0.46
31:D6:27:LYS:HB3	31:D6:32:ASN:HD21	1.77	0.46
38:DD:244:ARG:HG2	38:DD:245:PRO:N	2.31	0.46
1:AA:946:A:H3'	1:AA:947:G:H8	1.78	0.46
1:AA:1221:G:H4'	19:AS:77:THR:CG2	2.39	0.46
38:BD:244:ARG:HG2	38:BD:245:PRO:N	2.30	0.46
35:BA:1081:U:H4'	44:BK:117:THR:HG21	1.98	0.46
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.16	0.46
24:CY:260:LEU:HB2	24:CY:261:GLY:H	1.67	0.46
37:DC:76:LEU:HD21	37:DC:104:ILE:CD1	2.46	0.46
35:DA:2286:A:H8	35:DA:2287:A:C6	2.34	0.46
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.98	0.46
35:BA:1821:A:H2'	35:BA:1822:G:C8	2.51	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.15	0.46
35:BA:1782:C:H1'	35:BA:2609:U:C5'	2.37	0.46
33:B8:4:MET:SD	33:B8:61:LEU:HD22	2.56	0.46
2:CB:235:SER:OG	2:CB:236:TYR:N	2.48	0.46
26:D1:27:GLU:O	26:D1:28:GLY:C	2.54	0.46
35:BA:2809:A:OP2	35:BA:2891:G:N1	2.45	0.46
35:BA:2892:A:H62	35:BA:2893:G:N2	2.13	0.46
35:DA:2892:A:H62	35:DA:2893:G:N2	2.13	0.46
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.31	0.46
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.29	0.46
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.78	0.46
39:DE:107:THR:HA	39:DE:163:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:49:LEU:O	39:DE:78:LEU:CB	2.64	0.46
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.28	0.46
1:CA:80:G:N1	1:CA:90:U:H5'	2.31	0.46
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.44	0.46
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.15	0.46
1:AA:328:C:O2	1:AA:328:C:C2'	2.57	0.46
35:BA:1948:G:C5'	35:BA:1948:G:C8	2.96	0.46
1:CA:1326:C:P	21:CU:12:LYS:HZ2	2.39	0.46
3:CC:20:SER:HA	3:CC:57:ILE:O	2.15	0.46
49:DQ:1:MET:HE1	49:DQ:45:GLN:N	2.30	0.46
1:CA:28:G:O2'	1:CA:296:U:OP1	2.33	0.46
1:CA:1363(A):A:C4'	1:CA:1364:U:H5''	2.41	0.46
35:BA:2126:A:C4'	35:BA:2127:G:O5'	2.60	0.46
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.67	0.46
35:DA:9:U:O4	35:DA:2629:A:N7	2.49	0.46
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.30	0.46
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.31	0.46
40:BF:160:ASN:HD21	40:BF:162:LEU:CD1	2.28	0.46
42:BH:20:ALA:CB	42:BH:21:PRO:CD	2.91	0.46
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	2.31	0.46
55:DW:20:VAL:HG23	55:DW:21:VAL:H	1.80	0.46
20:CT:53:LEU:HB3	20:CT:102:GLY:HA3	1.97	0.46
34:D9:6:SER:HB2	35:DA:2466:C:H5''	1.98	0.46
35:DA:1050:A:C4	35:DA:1051:G:H1'	2.51	0.46
35:BA:2075:U:C2'	35:BA:2076:U:H5''	2.46	0.46
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.98	0.46
35:DA:803:U:H2'	35:DA:804:A:C5'	2.46	0.46
35:DA:818:G:OP2	35:DA:1187:G:O6	2.34	0.46
35:DA:286:C:H2'	35:DA:287:C:H6	1.79	0.46
4:AD:159:ARG:O	4:AD:162:LEU:N	2.49	0.46
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.15	0.46
36:BB:68:C:H2'	36:BB:69:G:C8	2.48	0.46
35:DA:1682:G:H5'	35:DA:1762:A:O2'	2.15	0.46
35:DA:177:G:H3'	35:DA:178:G:C8	2.51	0.46
28:B3:43:ILE:O	28:B3:47:VAL:HG23	2.15	0.46
55:BW:18:ARG:HG2	55:BW:18:ARG:HH11	1.81	0.46
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.16	0.46
35:BA:383:U:H2'	35:BA:385:C:H5	1.80	0.46
48:BP:122:PRO:O	48:BP:123:LEU:HD23	2.15	0.46
1:CA:1104:G:P	2:CB:111:ARG:HD2	2.56	0.46
35:DA:1499:C:O2'	35:DA:1500:G:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DL:15:UNK:O	45:DL:19:UNK:N	2.49	0.46
1:AA:311:C:O2'	1:AA:312:C:H5'	2.16	0.46
38:BD:33:LEU:C	38:BD:33:LEU:HD23	2.37	0.46
50:DR:44:LEU:HD13	50:DR:44:LEU:C	2.35	0.46
1:CA:416:G:H2'	1:CA:417:C:C6	2.51	0.46
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.16	0.46
8:AH:35:ILE:HG22	8:AH:39:LEU:HD21	1.98	0.46
50:DR:26:LYS:HE2	50:DR:71:GLN:H	1.80	0.46
38:BD:138:VAL:HA	38:BD:165:ILE:HG21	1.98	0.46
1:AA:930:C:C2'	1:AA:931:C:H5'	2.46	0.46
9:AI:117:HIS:O	9:AI:118:LYS:HG3	2.16	0.46
24:AY:673:PHE:CG	24:AY:674:ASP:N	2.84	0.46
24:CY:305:PRO:O	24:CY:333:GLY:HA2	2.16	0.46
35:BA:1925:C:O2'	35:BA:1926:U:H5'	2.15	0.46
1:CA:373:A:H2'	1:CA:374:A:H8	1.81	0.46
34:B9:2:LYS:HD3	35:BA:2526:G:N3	2.31	0.46
1:CA:114:U:H2'	1:CA:115:G:C8	2.51	0.46
24:AY:285:ASP:OD2	24:AY:285:ASP:N	2.48	0.46
13:AM:88:ARG:HG2	13:AM:88:ARG:HH11	1.80	0.46
1:CA:1420:C:O2	1:CA:1420:C:H2'	2.16	0.46
24:AY:5:VAL:O	24:AY:7:TYR:N	2.49	0.46
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.63	0.46
35:DA:1109:C:O2	35:DA:1109:C:C2'	2.64	0.46
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.96	0.46
34:B9:3:VAL:O	34:B9:4:ARG:HB3	2.16	0.46
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.31	0.46
57:BY:74:PRO:HG3	57:BY:83:THR:CG2	2.45	0.46
13:CM:4:ILE:CG2	13:CM:5:ALA:H	2.25	0.46
29:D4:9:LEU:HD13	29:D4:10:VAL:H	1.81	0.46
47:BO:9:GLU:O	47:BO:83:ALA:HA	2.15	0.46
8:AH:44:PHE:HE2	8:AH:109:ILE:CG2	2.28	0.46
31:B6:43:CYS:CB	31:B6:44:ARG:HH21	2.23	0.46
50:BR:63:ARG:HA	50:BR:80:PHE:CZ	2.51	0.46
24:AY:76:ASP:O	24:AY:77:HIS:CG	2.68	0.46
35:DA:821:A:H2'	35:DA:946:G:H5''	1.98	0.46
35:DA:512:G:HO2'	35:DA:513:A:H8	1.64	0.46
44:DK:99:ILE:O	44:DK:139:VAL:N	2.49	0.46
2:CB:189:ASP:C	2:CB:191:ASP:H	2.17	0.46
2:CB:238:LEU:O	2:CB:240:GLN:N	2.49	0.46
35:BA:2307:G:H3'	35:BA:2308:G:C5'	2.45	0.46
26:B1:44:PRO:HB2	26:B1:46:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DR:33:ARG:HG3	50:DR:115:GLU:HG3	1.98	0.46
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.45	0.46
38:DD:70:TRP:CD1	38:DD:70:TRP:C	2.89	0.46
39:DE:36:ARG:HH22	39:DE:88:GLY:H	1.64	0.46
49:DQ:78:PRO:HB2	49:DQ:81:VAL:HG11	1.98	0.46
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.46	0.46
35:DA:1061:U:C4'	35:DA:1070:A:H1'	2.43	0.46
35:DA:1077:A:O2'	35:DA:1078:U:H5'	2.16	0.46
1:AA:324:G:N2	1:AA:326:G:H3'	2.31	0.46
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.81	0.46
24:AY:100:VAL:HG23	24:AY:329:ARG:CG	2.44	0.46
38:DD:196:VAL:HG12	38:DD:196:VAL:O	2.16	0.46
17:AQ:52:LYS:HD3	17:AQ:55:ASP:OD2	2.15	0.46
37:DC:150:ILE:HG13	37:DC:154:ILE:HG13	1.97	0.46
18:CR:59:SER:N	18:CR:62:GLU:HB2	2.24	0.46
52:BT:11:GLU:C	52:BT:13:ARG:N	2.70	0.46
2:AB:32:ILE:CD1	2:AB:40:HIS:HB3	2.45	0.46
25:D0:40:GLN:NE2	25:D0:44:ARG:N	2.64	0.46
46:DN:129:PRO:O	46:DN:130:HIS:CB	2.59	0.46
1:AA:814:A:H2'	1:AA:816:A:C5'	2.42	0.46
42:DH:20:ALA:HB1	42:DH:21:PRO:HD3	1.98	0.46
35:DA:7:G:H1	35:DA:2896:C:N4	2.13	0.46
40:DF:165:ARG:HH11	40:DF:165:ARG:HB3	1.80	0.46
52:DT:32:TYR:HB3	52:DT:81:PRO:HB2	1.98	0.46
9:CI:9:ARG:HB3	9:CI:104:ARG:HH12	1.81	0.46
1:AA:1118:C:H42	1:AA:1155:G:H1	1.63	0.46
20:AT:104:LEU:HD23	20:AT:105:SER:O	2.16	0.46
24:AY:363:ARG:NH1	24:AY:363:ARG:HG3	2.23	0.46
24:CY:81:ILE:C	24:CY:82:ILE:HG13	2.36	0.46
28:D3:44:ARG:O	28:D3:45:GLY:C	2.54	0.46
35:DA:848:G:H5''	35:DA:928:G:N2	2.30	0.46
24:AY:689:LYS:CG	24:AY:690:GLY:N	2.78	0.46
1:AA:1423:G:H5''	47:BO:49:ARG:HH22	1.81	0.46
22:AV:4:G:O2'	22:AV:5:G:P	2.74	0.46
52:DT:75:ILE:CD1	52:DT:75:ILE:N	2.77	0.46
25:B0:19:LYS:HD3	25:B0:41:ARG:NH2	2.26	0.46
35:BA:2105:C:N4	35:BA:2184:G:H1	2.12	0.46
20:AT:75:ASN:HD22	20:AT:75:ASN:H	1.63	0.46
58:BZ:153:SER:O	58:BZ:155:LEU:HD23	2.15	0.46
12:CL:117:ARG:HH22	12:CL:124:LYS:HB2	1.81	0.46
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:71:VAL:HG12	48:BP:72:PRO:HD3	1.97	0.46
35:BA:428:A:H3'	35:BA:429:A:H8	1.80	0.46
35:BA:1491:G:H21	35:BA:1492:G:H1'	1.81	0.46
35:DA:1668:A:H61	35:DA:1676:A:H61	1.63	0.46
22:AW:48:U:C6	22:AW:51:U:OP1	2.69	0.46
1:AA:46:G:O2'	1:AA:365:U:H1'	2.16	0.46
35:DA:1843:C:H2'	35:DA:1844:C:C6	2.50	0.46
35:DA:520:G:H2'	35:DA:521:G:H8	1.81	0.46
35:DA:1006:C:O2'	46:DN:106:MET:HB3	2.15	0.46
52:BT:26:ASP:OD2	52:BT:26:ASP:O	2.34	0.46
35:BA:1196:C:O2'	35:BA:1197:G:H5'	2.16	0.46
1:CA:961:U:OP2	1:CA:1223:C:C4'	2.64	0.46
35:BA:324:A:N6	35:BA:338:G:O2'	2.49	0.46
35:BA:71:A:N3	35:BA:73:A:N6	2.64	0.46
1:AA:416:G:H2'	1:AA:417:C:C6	2.51	0.46
24:CY:394:ALA:HB1	24:CY:395:PRO:HD2	1.97	0.46
26:B1:92:LYS:CE	35:BA:153:C:OP1	2.64	0.46
5:CE:150:ARG:O	5:CE:150:ARG:HG2	2.16	0.46
35:DA:325:G:H2'	35:DA:326:G:C8	2.50	0.46
38:BD:45:ASN:CG	38:BD:46:GLN:H	2.19	0.46
8:CH:19:VAL:HG23	8:CH:21:LYS:HB2	1.97	0.46
1:AA:826:C:H2'	1:AA:827:U:H6	1.79	0.46
43:BJ:108:UNK:O	43:BJ:109:UNK:C	2.64	0.46
35:BA:393:C:O2'	35:BA:394:A:H5'	2.14	0.46
35:BA:1159:U:H5''	35:BA:1159:U:H6	1.81	0.46
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.36	0.46
41:BG:111:LEU:CD2	41:BG:120:LEU:HD21	2.45	0.46
41:BG:139:LEU:HD23	41:BG:149:VAL:HG11	1.98	0.46
41:BG:7:LEU:HD11	41:BG:103:LEU:HB2	1.98	0.46
10:AJ:79:ARG:HA	10:AJ:79:ARG:HD3	1.62	0.46
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.14	0.46
4:CD:8:VAL:C	4:CD:10:ARG:N	2.69	0.46
24:AY:146:LEU:HD23	24:AY:146:LEU:C	2.36	0.46
24:AY:168:ILE:HG22	24:AY:175:SER:OG	2.16	0.46
24:AY:181:LEU:HD11	24:AY:242:LEU:HD22	1.97	0.46
35:DA:186:G:C2	35:DA:211:A:C2	3.04	0.46
35:DA:211:A:H2'	35:DA:212:G:C5'	2.23	0.46
35:BA:1109:C:C2'	35:BA:1109:C:O2	2.64	0.46
34:B9:4:ARG:NH1	35:BA:2477:C:N4	2.64	0.46
38:DD:35:LYS:HD2	38:DD:36:PRO:HA	1.96	0.46
33:B8:56:GLU:HA	33:B8:59:LYS:HZ3	1.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:50:ARG:HG3	48:BP:51:PHE:N	2.31	0.46
57:DY:74:PRO:HG3	57:DY:83:THR:CG2	2.45	0.46
57:BY:31:LEU:CD2	57:BY:31:LEU:N	2.78	0.46
57:BY:8:LYS:HE2	57:BY:72:VAL:O	2.16	0.46
42:BH:13:LYS:C	42:BH:15:VAL:H	2.17	0.46
31:D6:7:ILE:CD1	31:D6:7:ILE:N	2.79	0.46
33:D8:36:LYS:O	33:D8:37:SER:C	2.54	0.46
35:DA:2314:C:C2'	35:DA:2315:G:H5'	2.46	0.46
10:CJ:3:LYS:N	10:CJ:75:ILE:O	2.49	0.46
1:CA:1003:G:HO2'	1:CA:1005:A:P	2.39	0.46
50:DR:83:ILE:O	50:DR:87:TYR:CE2	2.69	0.46
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.76	0.46
24:CY:146:LEU:CD1	24:CY:167:PRO:HD3	2.46	0.46
24:CY:238:THR:HG23	24:CY:241:GLU:N	2.24	0.46
24:CY:276:VAL:CA	24:CY:280:LEU:HD23	2.46	0.46
51:BS:89:ARG:HG3	51:BS:92:TYR:N	2.30	0.46
31:D6:45:LYS:HG2	35:DA:2371:G:C4'	2.46	0.46
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.98	0.46
35:BA:814:C:C5	48:BP:27:HIS:CE1	3.04	0.46
44:DK:103:GLN:C	44:DK:106:GLU:HG2	2.36	0.46
35:DA:1596:A:C2'	35:DA:1597:A:H5'	2.45	0.46
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.46	0.46
1:AA:781:A:C2'	1:AA:782:A:H5'	2.46	0.46
35:DA:814:C:C5	48:DP:27:HIS:CE1	3.04	0.46
48:BP:115:LEU:HA	48:BP:134:ALA:CB	2.42	0.46
2:CB:86:GLU:C	2:CB:88:ALA:N	2.69	0.46
26:B1:44:PRO:O	26:B1:46:LEU:HD13	2.16	0.46
42:DH:66:GLY:HA2	42:DH:69:ARG:CB	2.43	0.46
3:AC:20:SER:HA	3:AC:57:ILE:O	2.16	0.46
1:AA:1198:G:C6	1:AA:1199:U:N3	2.84	0.46
39:BE:49:LEU:O	39:BE:78:LEU:CB	2.64	0.46
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.16	0.46
35:DA:1022:G:O2'	35:DA:1023:U:P	2.74	0.46
35:DA:1141:U:OP1	46:DN:25:ARG:NH1	2.49	0.46
24:AY:70:THR:O	24:AY:80:ASN:HA	2.15	0.46
52:BT:82:LEU:N	52:BT:82:LEU:CD1	2.78	0.46
38:DD:270:ILE:H	38:DD:270:ILE:CD1	2.28	0.46
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.64	0.46
52:BT:108:ARG:HH11	52:BT:108:ARG:HB2	1.79	0.46
52:BT:102:ILE:HB	52:BT:110:ILE:CD1	2.45	0.46
27:D2:45:SER:O	27:D2:46:GLN:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:31:SER:O	53:BU:33:ARG:N	2.48	0.46
1:AA:243:A:C2	1:AA:246:A:C8	3.03	0.46
24:CY:428:LEU:HD13	24:CY:440:VAL:HG11	1.96	0.46
35:DA:288:C:O2'	35:DA:289:A:H5'	2.16	0.46
8:AH:83:ILE:CD1	8:AH:137:VAL:HG22	2.41	0.46
35:BA:2163:C:C2'	35:BA:2164:C:H5'	2.46	0.46
38:DD:147:LEU:HD12	38:DD:147:LEU:HA	1.66	0.46
35:BA:391:G:O2'	35:BA:392:C:H5'	2.15	0.46
48:DP:77:ARG:HB2	48:DP:78:PRO:CD	2.40	0.46
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.30	0.46
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.45	0.46
20:AT:57:ARG:NH1	20:AT:102:GLY:CA	2.74	0.46
52:DT:128:GLU:OE2	52:DT:129:ARG:N	2.49	0.46
44:DK:17:ALA:HB3	44:DK:38:VAL:CG1	2.46	0.46
35:DA:841:A:H2'	35:DA:842:G:O4'	2.15	0.46
35:BA:2478:A:C2'	35:BA:2479:G:H5'	2.46	0.46
35:BA:739:G:HO2'	35:BA:740:U:H6	1.60	0.46
35:BA:911:A:H2'	49:BQ:9:TYR:OH	2.15	0.46
35:DA:120:U:O2	35:DA:120:U:C2'	2.62	0.46
35:BA:2794:C:N4	35:BA:2801(A):A:H61	2.13	0.46
11:AK:87:THR:O	11:AK:88:GLY:C	2.54	0.46
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.51	0.46
54:DV:35:LEU:HB3	54:DV:37:VAL:HG23	1.98	0.46
1:CA:1443:G:N3	1:CA:1443:G:H2'	2.29	0.46
35:DA:2428:G:H5'	35:DA:2429:G:P	2.56	0.46
35:DA:492:A:O2'	35:DA:493:G:H5'	2.16	0.46
1:AA:473:G:H2'	1:AA:474:G:C8	2.47	0.46
38:DD:227:ASN:O	38:DD:230:ASP:N	2.45	0.46
1:CA:1346:A:H1'	1:CA:1348:U:C5	2.51	0.46
35:DA:1812:A:O2'	35:DA:1813:G:H5'	2.16	0.46
35:DA:20:C:H2'	35:DA:21:A:C8	2.51	0.46
58:DZ:56:VAL:HA	58:DZ:70:LEU:HD23	1.98	0.46
57:DY:52:SER:N	57:DY:53:PRO:HD2	2.30	0.46
33:D8:42:ARG:HH11	35:DA:2350:C:H5	1.64	0.46
35:DA:1930:G:O2'	35:DA:1931:U:O5'	2.34	0.46
1:AA:992:U:O2'	1:AA:993:G:P	2.74	0.46
26:B1:24:ALA:HA	26:B1:32:LYS:HG3	1.98	0.46
35:BA:654(P):C:O2'	35:BA:654(Q):C:H5'	2.15	0.46
38:BD:213:ARG:C	38:BD:215:LEU:N	2.67	0.46
13:CM:106:ASN:HB3	13:CM:107:ALA:H	1.52	0.46
35:DA:859:G:N2	35:DA:917:A:OP2	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1808:U:H2'	35:DA:1809:A:O4'	2.16	0.46
35:DA:2859:G:H2'	35:DA:2860:A:C8	2.51	0.46
5:CE:43:LEU:CD2	5:CE:132:ALA:HB1	2.46	0.46
24:CY:484:ARG:CD	24:CY:559:PRO:HB2	2.46	0.46
6:AF:21:LEU:O	6:AF:24:GLU:HB3	2.16	0.46
35:DA:343:C:O2'	35:DA:344:G:H5'	2.15	0.46
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.51	0.46
35:DA:773:U:H2'	35:DA:774:A:H5'	1.98	0.46
1:CA:221:C:H5'	1:CA:222:U:OP2	2.16	0.46
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.80	0.46
15:AO:31:LEU:N	15:AO:31:LEU:HD22	2.31	0.46
37:DC:85:LYS:O	37:DC:89:GLU:HG3	2.16	0.46
5:AE:150:ARG:HG2	5:AE:150:ARG:O	2.16	0.46
22:AV:27:U:H6	22:AV:27:U:O5'	1.99	0.46
29:B4:7:PRO:HG2	41:BG:61:ALA:O	2.16	0.45
35:BA:2313:C:O2'	35:BA:2314:C:H5'	2.16	0.45
24:CY:456:GLU:O	24:CY:459:LEU:HD12	2.16	0.45
39:DE:120:TRP:CE3	39:DE:155:LYS:HE3	2.51	0.45
58:DZ:168:GLU:HG3	58:DZ:169:GLU:N	2.31	0.45
35:BA:2732:G:H5'	35:BA:2733:A:C8	2.52	0.45
53:DU:49:HIS:O	53:DU:52:ARG:HB2	2.16	0.45
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.45	0.45
16:AP:59:TRP:O	16:AP:62:VAL:HG22	2.16	0.45
53:BU:50:ARG:C	53:BU:52:ARG:N	2.68	0.45
54:BV:39:LEU:O	54:BV:40:LEU:CB	2.64	0.45
38:DD:35:LYS:CG	38:DD:63:ARG:HA	2.33	0.45
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.99	0.45
35:BA:925:C:C4	35:BA:926:A:N7	2.84	0.45
41:DG:47:LYS:HD3	41:DG:47:LYS:H	1.81	0.45
5:CE:101:ILE:N	5:CE:101:ILE:HD13	2.20	0.45
35:BA:661:C:H4'	48:BP:18:ARG:HG2	1.97	0.45
44:DK:106:GLU:HG3	44:DK:107:ILE:N	2.30	0.45
2:CB:113:HIS:O	2:CB:117:GLU:HG3	2.16	0.45
35:DA:2573:C:OP1	35:DA:2574:G:OP1	2.34	0.45
48:DP:98:GLU:O	48:DP:102:ARG:NH2	2.49	0.45
2:CB:17:PHE:CG	2:CB:18:GLY:N	2.83	0.45
1:AA:252:U:C4	1:AA:253:U:O4	2.70	0.45
2:AB:119:GLU:C	2:AB:121:LEU:H	2.20	0.45
35:BA:2807:G:H3'	35:BA:2808:U:C5'	2.39	0.45
35:DA:2809:A:OP2	35:DA:2891:G:N1	2.46	0.45
35:BA:2722:G:O2'	50:BR:5:LYS:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.45	0.45
51:DS:106:ARG:O	51:DS:107:GLU:HB2	2.15	0.45
51:DS:35:ILE:HD11	51:DS:99:LYS:HE3	1.98	0.45
24:AY:526:VAL:N	24:AY:565:VAL:O	2.49	0.45
3:AC:43:LEU:HD22	3:AC:47:LEU:HD22	1.98	0.45
35:BA:676:A:H1'	35:BA:2443:C:C1'	2.43	0.45
27:D2:6:VAL:HG12	27:D2:6:VAL:O	2.16	0.45
47:BO:69:ILE:HD12	47:BO:69:ILE:H	1.79	0.45
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.14	0.45
30:D5:33:CYS:SG	30:D5:36:CYS:SG	3.11	0.45
24:CY:170:ARG:HH22	24:CY:205:TYR:HE1	1.62	0.45
52:BT:102:ILE:HG13	52:BT:103:ARG:N	2.31	0.45
1:CA:1431:C:H2'	1:CA:1432:G:H5'	1.98	0.45
47:DO:24:VAL:O	47:DO:24:VAL:HG23	2.14	0.45
24:CY:568:TYR:CD2	24:CY:569:ASP:HB2	2.51	0.45
48:DP:46:LYS:HG2	48:DP:52:GLU:CG	2.46	0.45
27:D2:46:GLN:O	27:D2:47:ASN:O	2.33	0.45
29:B4:14:ILE:O	29:B4:15:ILE:HD13	2.16	0.45
35:BA:1607:C:H5'	35:BA:1608:A:C8	2.51	0.45
24:AY:150:ILE:C	24:AY:152:THR:N	2.69	0.45
54:BV:21:ARG:HB3	54:BV:91:TYR:HD1	1.71	0.45
52:BT:33:LYS:NZ	52:BT:43:GLN:NE2	2.65	0.45
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.16	0.45
35:DA:2776:A:C6	35:DA:2782:G:H1'	2.50	0.45
35:DA:2478:A:C2'	35:DA:2479:G:H5'	2.45	0.45
42:DH:53:GLU:CD	42:DH:54:ARG:H	2.19	0.45
1:CA:724:G:O2'	1:CA:725:G:H5'	2.16	0.45
39:DE:174:ASP:OD2	39:DE:175:VAL:N	2.49	0.45
39:DE:199:ARG:NH1	39:DE:199:ARG:HB2	2.32	0.45
53:BU:72:HIS:HE1	53:BU:107:ALA:HB2	1.82	0.45
46:BN:32:THR:HG23	46:BN:37:LYS:HB3	1.99	0.45
1:CA:190:U:O2	20:CT:105:SER:HB2	2.16	0.45
35:BA:818:G:OP2	35:BA:1187:G:O6	2.34	0.45
35:DA:1187:G:H5''	54:DV:81:TYR:CE2	2.51	0.45
14:AN:42:ILE:HA	14:AN:42:ILE:HD13	1.68	0.45
16:AP:74:LEU:HD22	16:AP:79:VAL:HG21	1.98	0.45
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.17	0.45
36:BB:15:A:H1'	36:BB:110:G:C5	2.50	0.45
35:DA:911:A:H2'	49:DQ:9:TYR:OH	2.16	0.45
35:BA:1788:C:H2'	35:BA:1789:A:C8	2.50	0.45
35:DA:2543:G:C2	35:DA:2765:A:H2'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:962:G:C2'	35:BA:963:U:H5'	2.45	0.45
54:BV:35:LEU:C	54:BV:37:VAL:H	2.19	0.45
3:CC:138:VAL:O	3:CC:140:ARG:N	2.49	0.45
12:CL:115:LYS:O	12:CL:117:ARG:N	2.48	0.45
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.30	0.45
1:CA:1094:G:O2'	1:CA:1095:U:OP2	2.34	0.45
38:BD:11:PRO:C	38:BD:13:ARG:N	2.68	0.45
35:DA:311:A:H5'	35:DA:332:A:N3	2.31	0.45
35:DA:1675:C:H2'	35:DA:1676:A:O4'	2.17	0.45
1:CA:534:U:H6	1:CA:534:U:H5'	1.81	0.45
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	2.30	0.45
35:DA:1843:C:H5'	38:DD:253:GLN:NE2	2.30	0.45
35:DA:1071:G:N2	35:DA:1090:U:C5	2.83	0.45
35:DA:1101:U:H2'	35:DA:1102:C:C6	2.50	0.45
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.50	0.45
35:DA:2507:C:H2'	35:DA:2508:G:H8	1.81	0.45
51:DS:44:LYS:O	51:DS:46:VAL:HG23	2.16	0.45
2:CB:8:LYS:HB2	2:CB:9:GLU:OE2	2.16	0.45
35:BA:626:U:H3	48:BP:105:LEU:HG	1.81	0.45
35:BA:1614:A:H62	55:BW:93:ALA:HB2	1.81	0.45
56:DX:3:THR:O	56:DX:4:ALA:HB3	2.17	0.45
35:DA:1462:C:H4'	35:DA:2703:C:H5'	1.98	0.45
46:DN:119:ARG:HG3	46:DN:119:ARG:HH11	1.81	0.45
41:BG:152:LEU:HD23	41:BG:152:LEU:N	2.30	0.45
1:AA:335:C:O2'	1:AA:336:C:H5'	2.16	0.45
35:DA:777:A:C2	35:DA:778:G:C4	3.03	0.45
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	2.17	0.45
1:AA:830:G:H2'	1:AA:831:U:C6	2.52	0.45
48:DP:32:THR:CG2	48:DP:37:GLY:HA2	2.45	0.45
15:AO:31:LEU:CD2	15:AO:31:LEU:N	2.79	0.45
1:CA:311:C:O2'	1:CA:312:C:H5'	2.17	0.45
1:AA:545:C:O2'	1:AA:546:G:H5'	2.16	0.45
55:DW:12:ILE:HG13	55:DW:42:ARG:NH1	2.31	0.45
35:BA:725:G:C6	35:BA:726:G:N1	2.84	0.45
35:BA:539:G:O2'	35:BA:540:C:H5'	2.17	0.45
9:CI:33:PHE:C	9:CI:35:GLU:H	2.19	0.45
35:BA:560:C:H2'	35:BA:561:G:O4'	2.16	0.45
35:DA:1355:G:O2'	35:DA:1356:G:H5'	2.15	0.45
54:BV:89:GLN:OE1	54:BV:89:GLN:HA	2.17	0.45
41:DG:31:VAL:HG13	41:DG:31:VAL:O	2.15	0.45
46:DN:123:TYR:N	46:DN:123:TYR:CD1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:4:ILE:CG2	13:AM:5:ALA:H	2.23	0.45
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.47	0.45
35:DA:2732:G:H5''	35:DA:2733:A:C8	2.51	0.45
24:AY:408:VAL:HG22	24:AY:454:MET:HA	1.98	0.45
24:AY:88:VAL:O	24:AY:90:PHE:N	2.49	0.45
41:BG:77:ILE:HG22	41:BG:80:PHE:CA	2.42	0.45
35:BA:2131:G:C8	35:BA:2133:G:N3	2.84	0.45
56:DX:12:VAL:HG12	56:DX:27:THR:C	2.35	0.45
33:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.99	0.45
58:DZ:44:PHE:C	58:DZ:44:PHE:CD1	2.88	0.45
57:DY:12:THR:HA	57:DY:25:GLY:O	2.16	0.45
35:BA:272(G):C:H42	35:BA:363(C):G:H1	1.63	0.45
35:DA:272(G):C:H42	35:DA:363(C):G:H1	1.64	0.45
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.16	0.45
35:BA:85:G:N3	35:BA:103:A:C2	2.84	0.45
31:D6:11:LEU:HD12	31:D6:25:LYS:HA	1.99	0.45
31:D6:5:VAL:HB	35:DA:2284:C:P	2.55	0.45
35:BA:1058:G:N2	44:BK:126:MET:HE3	2.31	0.45
24:CY:148:LEU:CD1	24:CY:151:ARG:HH11	2.29	0.45
24:CY:259:PHE:N	24:CY:259:PHE:CD1	2.84	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:HB2	2.30	0.45
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.79	0.45
49:DQ:63:LYS:NZ	58:DZ:175:VAL:HG21	2.30	0.45
35:BA:814:C:N3	35:BA:1193:G:O6	2.49	0.45
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.16	0.45
3:AC:52:LEU:HD12	3:AC:55:VAL:HG22	1.98	0.45
48:DP:115:LEU:HA	48:DP:134:ALA:CB	2.42	0.45
48:DP:98:GLU:HA	48:DP:101:VAL:HG22	1.98	0.45
48:BP:99:LEU:HG	48:BP:100:LEU:HD22	1.97	0.45
48:BP:95:VAL:CG2	48:BP:125:VAL:HG23	2.44	0.45
44:BK:105:LEU:CD2	44:BK:120:LEU:HD13	2.46	0.45
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.17	0.45
1:CA:1198:G:C6	1:CA:1199:U:N3	2.84	0.45
41:DG:23:PHE:CE2	41:DG:168:GLU:HG2	2.51	0.45
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.89	0.45
35:DA:2850:A:C2	50:DR:61:HIS:CD2	3.05	0.45
29:D4:22:ILE:H	29:D4:22:ILE:HD12	1.81	0.45
35:BA:2850:A:C2	50:BR:61:HIS:CD2	3.03	0.45
24:AY:15:ILE:C	24:AY:101:LEU:HD13	2.37	0.45
52:BT:29:ARG:HA	52:BT:29:ARG:HD2	1.72	0.45
35:BA:2742:C:HO2'	35:BA:2743:C:H5'	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1234:C:HO2'	1:AA:1364:U:H6	1.61	0.45
6:CF:67:MET:CE	6:CF:72:VAL:HA	2.46	0.45
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.46	0.45
39:BE:9:VAL:HG13	39:BE:25:VAL:O	2.15	0.45
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.30	0.45
2:CB:32:ILE:CD1	2:CB:40:HIS:HB3	2.46	0.45
44:DK:23:VAL:HG12	44:DK:23:VAL:O	2.16	0.45
42:BH:121:ILE:HA	42:BH:134:SER:O	2.16	0.45
52:BT:102:ILE:O	52:BT:103:ARG:C	2.55	0.45
1:CA:1511:G:C2'	1:CA:1512:U:H5'	2.46	0.45
1:CA:1277:C:C3'	1:CA:1277:C:C6	3.00	0.45
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.31	0.45
35:BA:2001:A:H4'	35:BA:2689:U:H2'	1.99	0.45
9:AI:125:TYR:HD2	9:AI:126:SER:H	1.64	0.45
35:BA:2466:C:C2'	35:BA:2467:C:H5'	2.46	0.45
24:CY:264:LEU:HD22	24:CY:265:LYS:NZ	2.31	0.45
1:CA:666:G:N2	1:CA:667:G:H1'	2.32	0.45
35:DA:238:C:H2'	35:DA:239:U:O4'	2.15	0.45
3:AC:131:ARG:O	3:AC:132:ARG:C	2.54	0.45
3:AC:151:VAL:CG1	3:AC:152:ILE:N	2.79	0.45
35:DA:1114:G:O2'	35:DA:1115:G:H5''	2.17	0.45
35:BA:2514:U:C2	35:BA:2515:C:C5	3.04	0.45
22:CV:20:U:H5'	22:CV:21:A:OP2	2.16	0.45
1:AA:559:A:P	5:AE:126:ARG:HH22	2.39	0.45
36:DB:81:G:C2	36:DB:82:G:N7	2.84	0.45
42:BH:146:ALA:O	42:BH:147:ASN:C	2.55	0.45
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.31	0.45
34:B9:34:GLN:O	34:B9:35:ARG:CB	2.64	0.45
1:AA:1371:G:C6	1:AA:1372:U:C4	3.03	0.45
35:BA:753:C:H2'	35:BA:754:C:C6	2.51	0.45
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.78	0.45
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.79	0.45
56:BX:41:ASN:HA	56:BX:44:GLU:HG2	1.97	0.45
1:AA:470:C:C2'	1:AA:471:G:OP1	2.64	0.45
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.51	0.45
42:DH:89:ILE:O	42:DH:89:ILE:CG1	2.63	0.45
24:AY:498:ILE:HG22	24:AY:507:TYR:CG	2.51	0.45
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.36	0.45
35:DA:1345:C:C2'	35:DA:1346:G:H5'	2.47	0.45
35:BA:786:C:C2'	35:BA:787:U:H5'	2.46	0.45
35:DA:759:G:H2'	35:DA:760:G:C8	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:426:GLN:O	24:CY:427:ALA:C	2.54	0.45
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.64	0.45
13:AM:54:VAL:HG12	13:AM:58:GLU:CG	2.46	0.45
24:CY:659:LEU:HD13	24:CY:659:LEU:C	2.36	0.45
1:CA:923:A:H2'	1:CA:924:C:C6	2.51	0.45
35:BA:1237:A:O2'	35:BA:1238:G:P	2.74	0.45
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.17	0.45
35:DA:134:C:O2'	35:DA:135:G:H5'	2.17	0.45
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.50	0.45
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.81	0.45
19:AS:72:GLY:C	19:AS:74:PHE:N	2.70	0.45
1:AA:896:C:O2'	1:AA:897:C:H5'	2.17	0.45
37:BC:76:LEU:HB3	37:BC:114:VAL:HA	1.99	0.45
22:AV:38:A:H2'	22:AV:39:C:O4'	2.16	0.45
35:DA:1132:A:C4	35:DA:1133:U:C5	3.04	0.45
31:B6:33:LYS:HG2	31:B6:34:LEU:H	1.81	0.45
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.81	0.45
5:AE:136:MET:O	5:AE:137:GLU:C	2.54	0.45
24:AY:545:GLY:CA	24:AY:583:LYS:HG2	2.46	0.45
24:CY:190:ASN:HD21	24:CY:195:ASP:HB2	1.81	0.45
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.55	0.45
35:DA:2642:G:O2'	35:DA:2643:G:H5'	2.16	0.45
17:AQ:88:TYR:O	17:AQ:91:ARG:N	2.50	0.45
35:DA:1487:G:H3'	35:DA:1488:G:H8	1.82	0.45
7:CG:97:GLN:O	7:CG:98:SER:C	2.53	0.45
2:AB:179:LYS:O	2:AB:179:LYS:HG2	2.16	0.45
4:CD:168:ARG:HH11	4:CD:168:ARG:HA	1.80	0.45
1:CA:495:A:H4'	1:CA:496:A:OP1	2.15	0.45
1:CA:399:G:H2'	1:CA:400:C:C6	2.51	0.45
42:BH:173:PRO:HG2	42:BH:174:GLY:H	1.80	0.45
41:BG:55:LYS:HA	41:BG:58:GLN:HG3	1.98	0.45
1:CA:542:G:O2'	1:CA:543:C:H5'	2.16	0.45
4:CD:13:ARG:O	4:CD:16:GLY:N	2.39	0.45
1:AA:542:G:P	4:AD:10:ARG:HH21	2.39	0.45
24:AY:166:LEU:N	24:AY:166:LEU:HD12	2.31	0.45
35:DA:904:C:H2'	35:DA:905:U:C6	2.51	0.45
53:DU:49:HIS:CA	53:DU:52:ARG:HB2	2.46	0.45
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.51	0.45
35:DA:768:G:H2'	35:DA:769:G:C8	2.52	0.45
53:BU:49:HIS:CA	53:BU:52:ARG:HB2	2.46	0.45
35:BA:1155:A:O3'	53:BU:55:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:272(H):C:C6	35:DA:272(H):C:H5'	2.33	0.45
40:DF:180:GLY:O	40:DF:182:ASN:N	2.49	0.45
35:DA:2393:A:O2'	35:DA:2394:C:H5'	2.16	0.45
48:DP:59:LEU:O	48:DP:59:LEU:HD23	2.17	0.45
52:BT:27:THR:C	52:BT:28:VAL:HG23	2.34	0.45
57:BY:88:LYS:HE2	57:BY:93:GLY:HA3	1.99	0.45
30:B5:7:PRO:HG2	35:BA:2016:U:O2	2.15	0.45
30:B5:2:ALA:N	35:BA:2015:A:H1'	2.30	0.45
35:BA:2016:U:O2'	35:BA:2017:U:H5'	2.16	0.45
30:D5:11:THR:OG1	35:DA:1263:U:O3'	2.34	0.45
24:CY:136:ALA:HB3	24:CY:260:LEU:CB	2.26	0.45
1:CA:1236:A:H2'	1:CA:1237:C:C5	2.50	0.45
22:CV:47:U:OP1	22:CV:47:U:H6	2.00	0.45
5:CE:144:THR:O	5:CE:145:LYS:C	2.55	0.45
35:DA:1080:C:H4'	44:DK:125:ARG:CB	2.41	0.45
54:BV:15:GLU:O	54:BV:16:PRO:C	2.53	0.45
49:DQ:55:VAL:CG2	58:DZ:178:GLU:HG3	2.46	0.45
53:BU:13:LYS:O	53:BU:16:LYS:HB2	2.16	0.45
39:DE:38:THR:CG2	39:DE:40:GLU:HB2	2.45	0.45
46:BN:120:LEU:C	46:BN:120:LEU:HD13	2.36	0.45
24:CY:341:VAL:HG21	24:CY:389:LEU:HD23	1.98	0.45
51:BS:28:VAL:CG1	51:BS:29:PHE:H	2.13	0.45
2:CB:215:LEU:O	2:CB:218:ALA:HB3	2.16	0.45
44:BK:77:LEU:HD13	44:BK:110:GLN:OE1	2.15	0.45
39:DE:32:PRO:CA	39:DE:90:THR:HG23	2.46	0.45
39:DE:87:GLU:O	39:DE:88:GLY:C	2.55	0.45
39:BE:36:ARG:NH1	39:BE:36:ARG:CG	2.75	0.45
35:BA:1146:C:O2	35:BA:1146:C:H2'	2.16	0.45
1:AA:1452:C:OP1	1:AA:1452:C:O4'	2.34	0.45
41:DG:125:PHE:CZ	41:DG:173:LEU:HD12	2.51	0.45
51:DS:89:ARG:HE	51:DS:91:PRO:HG2	1.80	0.45
52:BT:118:ARG:HA	52:BT:121:ILE:CB	2.43	0.45
20:CT:26:ASN:N	20:CT:26:ASN:HD22	2.12	0.45
3:AC:83:ARG:C	3:AC:85:ARG:H	2.20	0.45
2:AB:17:PHE:CG	2:AB:18:GLY:N	2.85	0.45
2:AB:207:ALA:O	2:AB:208:ILE:C	2.55	0.45
12:AL:42:THR:O	12:AL:42:THR:HG23	2.16	0.45
15:AO:74:ASP:O	15:AO:76:GLU:N	2.49	0.45
46:DN:67:LEU:HB3	46:DN:88:GLU:HG2	1.95	0.45
52:DT:7:ILE:O	52:DT:10:VAL:HB	2.17	0.45
1:AA:356:A:H2'	1:AA:357:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1315:C:H42	35:BA:1337:G:H1	1.65	0.45
35:DA:1539:G:N3	35:DA:1540:U:H1'	2.30	0.45
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.28	0.45
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.99	0.45
1:CA:141:A:H1'	1:CA:182:U:C2	2.50	0.45
35:DA:1436:G:H1'	35:DA:1477:A:O2'	2.15	0.45
35:BA:532:A:N1	35:BA:2020:A:H1'	2.31	0.45
37:BC:101:ILE:HG13	37:BC:128:LEU:CD1	2.42	0.45
1:AA:1298:C:C5	7:AG:114:ARG:HD3	2.51	0.45
24:CY:117:GLN:NE2	24:CY:120:THR:CG2	2.80	0.45
1:CA:1351:U:H6	1:CA:1351:U:O5'	1.98	0.45
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.50	0.45
36:DB:14:U:H5'	36:DB:71:C:O4'	2.16	0.45
1:AA:1351:U:O5'	1:AA:1351:U:H6	2.00	0.45
24:CY:327:PHE:CD2	24:CY:376:ALA:HB2	2.50	0.45
35:DA:1638:C:H1'	35:DA:2698:U:O2'	2.16	0.45
35:BA:604:G:O2'	35:BA:605:C:H5'	2.15	0.45
1:CA:1291:G:H2'	1:CA:1292:U:C6	2.51	0.45
35:DA:657:U:C2	35:DA:658:C:C5	3.05	0.45
47:BO:107:ARG:HA	47:BO:112:MET:HE2	1.97	0.45
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.99	0.45
21:CU:23:PRO:C	21:CU:25:LYS:N	2.69	0.45
13:CM:10:PRO:O	13:CM:11:ARG:CB	2.65	0.45
27:B2:64:LEU:C	27:B2:64:LEU:HD13	2.37	0.45
41:DG:33:ARG:N	41:DG:33:ARG:HD3	2.30	0.45
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.97	0.45
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.80	0.45
46:BN:14:VAL:HG11	46:BN:137:LYS:CD	2.45	0.45
35:BA:2202:C:H2'	38:BD:151:LYS:HZ3	1.80	0.45
22:AV:72:A:C6	22:AV:73:A:C6	3.03	0.45
2:AB:8:LYS:O	2:AB:9:GLU:C	2.54	0.45
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.36	0.45
43:DJ:9:UNK:O	43:DJ:11:UNK:N	2.48	0.45
37:DC:182:PRO:HB3	37:DC:184:GLU:OE2	2.16	0.45
35:BA:440:G:N2	40:BF:46:ARG:NH2	2.64	0.45
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.16	0.45
50:DR:92:GLY:HA2	50:DR:94:TYR:CE1	2.51	0.45
58:BZ:26:GLY:O	58:BZ:27:VAL:CB	2.64	0.45
1:AA:771:G:H2'	1:AA:772:U:H6	1.82	0.45
3:CC:29:TYR:CG	14:CN:36:PHE:HE1	2.34	0.45
30:B5:22:HIS:HE1	35:BA:2624:G:H1'	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1628:G:O2'	35:DA:1629:U:H5'	2.17	0.45
22:AV:59:A:C2'	22:AV:60:U:H5'	2.47	0.45
15:CO:29:VAL:HG11	15:CO:67:LEU:HD21	1.99	0.45
1:AA:56:U:H2'	1:AA:57:G:C8	2.52	0.45
5:CE:136:MET:O	5:CE:137:GLU:C	2.54	0.45
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.45
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.98	0.45
1:CA:743:U:H2'	1:CA:744:C:C6	2.51	0.45
35:BA:1951:U:H2'	35:BA:1953:A:OP2	2.16	0.45
1:CA:940:C:O2'	1:CA:941:G:H5'	2.17	0.45
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.16	0.45
7:AG:88:PRO:HG2	7:AG:88:PRO:O	2.16	0.45
8:AH:122:ARG:HB3	8:AH:122:ARG:HH11	1.82	0.45
24:AY:662:LYS:HZ2	42:BH:175:LYS:HG3	1.76	0.45
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.81	0.45
35:DA:904:C:O2'	58:DZ:169:GLU:OE2	2.31	0.45
40:BF:29:ASN:O	40:BF:30:PRO:C	2.55	0.45
40:BF:34:TRP:CB	48:BP:10:PRO:HB2	2.34	0.45
53:DU:66:ASN:O	53:DU:68:ALA:N	2.49	0.45
53:BU:57:PHE:O	53:BU:58:ARG:C	2.55	0.45
35:BA:1709:U:H3	35:BA:1749:A:H61	1.65	0.45
35:BA:2134:A:N3	35:BA:2134:A:H2'	2.31	0.45
35:DA:85:G:N3	35:DA:103:A:C2	2.84	0.45
33:D8:53:PRO:HG2	33:D8:54:GLU:H	1.82	0.45
27:D2:41:ILE:O	27:D2:41:ILE:HG13	2.17	0.45
41:DG:44:GLY:O	41:DG:47:LYS:HD3	2.16	0.45
35:BA:1058:G:H21	44:BK:126:MET:HE1	1.82	0.45
30:D5:51:TYR:HD2	30:D5:52:TYR:H	1.63	0.45
35:BA:2616:C:H2'	35:BA:2616:C:O2	2.17	0.45
24:CY:38:ARG:O	24:CY:39:ILE:C	2.54	0.45
31:B6:43:CYS:O	31:B6:44:ARG:CB	2.63	0.45
51:BS:97:ARG:O	51:BS:97:ARG:NE	2.49	0.45
31:D6:16:CYS:O	31:D6:17:LYS:C	2.53	0.45
35:BA:2260:C:H2'	35:BA:2261:C:C6	2.49	0.45
58:DZ:145:GLU:OE1	58:DZ:146:ILE:HG23	2.17	0.45
39:BE:38:THR:C	39:BE:40:GLU:H	2.20	0.45
48:DP:127:ALA:C	48:DP:148:LEU:HD11	2.37	0.45
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.16	0.45
50:DR:96:ARG:O	50:DR:114:VAL:HA	2.16	0.45
1:AA:253:U:H2'	1:AA:254:G:C8	2.51	0.45
13:CM:49:THR:C	13:CM:51:ALA:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:41:VAL:C	19:AS:43:GLU:N	2.68	0.45
35:BA:2820:A:C8	39:BE:191:PRO:CB	2.99	0.45
1:CA:1442:G:H8	1:CA:1442:G:H3'	1.81	0.45
30:B5:56:LYS:CG	30:B5:57:VAL:H	2.05	0.45
3:AC:43:LEU:O	3:AC:45:LYS:N	2.50	0.45
22:CW:8:U:H3	22:CW:14:A:N6	2.15	0.45
35:BA:2443:C:O2	35:BA:2443:C:C2'	2.65	0.45
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	2.15	0.45
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.51	0.45
52:DT:82:LEU:CD1	52:DT:82:LEU:N	2.79	0.45
41:BG:81:LYS:O	41:BG:83:ARG:HG3	2.16	0.45
49:BQ:52:VAL:O	49:BQ:54:MET:N	2.50	0.45
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.31	0.45
26:B1:60:PHE:CE1	26:B1:91:LYS:HG3	2.51	0.45
46:DN:95:PRO:HA	46:DN:98:VAL:CG2	2.47	0.45
35:DA:1313:U:C2	35:DA:1610:A:H2	2.35	0.45
35:DA:71:A:N3	35:DA:73:A:N6	2.65	0.45
38:DD:24:ILE:CD1	38:DD:25:THR:N	2.79	0.45
1:CA:243:A:C2	1:CA:246:A:C8	3.05	0.45
37:DC:173:HIS:O	37:DC:174:ALA:HB2	2.17	0.45
11:AK:34:ASP:OD2	11:AK:34:ASP:C	2.55	0.45
11:AK:38:ASN:HA	11:AK:39:PRO:HD3	1.83	0.45
21:CU:18:TYR:CD2	21:CU:24:ARG:HA	2.51	0.45
29:B4:48:ARG:O	29:B4:49:PHE:HD1	1.99	0.45
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.98	0.45
37:BC:101:ILE:H	37:BC:101:ILE:CD1	2.29	0.45
24:CY:69:VAL:O	24:CY:69:VAL:HG13	2.17	0.45
28:B3:56:VAL:CG1	28:B3:57:GLU:H	2.22	0.45
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.99	0.45
4:CD:163:GLU:C	4:CD:165:MET:H	2.20	0.45
35:DA:87:C:OP2	35:DA:90:U:O4	2.34	0.45
20:CT:69:GLY:O	20:CT:73:HIS:NE2	2.49	0.45
7:CG:116:ALA:O	7:CG:120:ILE:HG12	2.15	0.45
24:AY:539:ILE:HA	24:AY:542:VAL:CG1	2.44	0.45
35:DA:428:A:H3'	35:DA:429:A:H8	1.80	0.45
35:BA:1780:A:H5'	35:BA:1781:C:OP2	2.16	0.45
35:DA:389:G:O4'	35:DA:2413:G:C4'	2.64	0.45
16:CP:74:LEU:HD22	16:CP:79:VAL:HG21	1.98	0.45
1:AA:472:A:H2'	1:AA:473:G:O4'	2.16	0.45
26:B1:68:PRO:C	26:B1:70:VAL:N	2.70	0.45
35:DA:333:G:H2'	35:DA:333:G:N3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2551:C:H2'	35:DA:2552:U:C6	2.51	0.45
13:CM:63:THR:CG2	13:CM:64:TRP:N	2.77	0.45
1:AA:943:U:O2'	1:AA:944:G:H5'	2.17	0.45
35:BA:2037:G:C6	35:BA:2038:G:C6	3.04	0.45
52:BT:134:GLU:O	52:BT:135:ALA:CB	2.63	0.45
35:BA:1544:A:O2'	35:BA:1545:A:H5'	2.16	0.45
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.64	0.45
35:DA:1209:G:H21	35:DA:1210:A:H62	1.63	0.45
1:AA:221:C:H5'	1:AA:222:U:OP2	2.17	0.45
35:DA:198:C:N4	35:DA:248:G:H1	2.14	0.45
51:DS:73:LEU:O	51:DS:73:LEU:HD23	2.16	0.45
35:DA:291:C:H2'	35:DA:292:C:C6	2.51	0.45
7:CG:92:SER:O	7:CG:93:PRO:C	2.54	0.45
47:BO:53:LYS:O	47:BO:54:GLU:C	2.54	0.45
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.46	0.45
35:BA:42:G:H2'	35:BA:42:G:N3	2.31	0.45
1:CA:451:A:O4'	1:CA:452:A:C8	2.69	0.45
35:BA:2373:G:H2'	35:BA:2374:C:H6	1.81	0.45
46:BN:119:ARG:HH11	46:BN:119:ARG:HG3	1.81	0.45
22:AV:38:A:O2'	22:AV:39:C:H5'	2.16	0.45
35:BA:1341:U:H4'	56:BX:57:LEU:HB3	1.99	0.45
19:AS:79:THR:CG2	19:AS:80:TYR:N	2.80	0.45
35:BA:325:G:H2'	35:BA:326:G:C8	2.52	0.45
8:CH:19:VAL:HG21	8:CH:21:LYS:HE2	1.97	0.45
43:DJ:100:UNK:HA	43:DJ:103:UNK:CB	2.47	0.45
35:DA:2081:C:H2'	35:DA:2082:A:H8	1.80	0.45
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.50	0.45
3:AC:187:ALA:C	3:AC:188:LEU:HD22	2.37	0.45
35:DA:1166:C:H2'	35:DA:1167:U:C6	2.52	0.45
35:DA:182:A:O2'	35:DA:183:C:H5'	2.17	0.45
27:B2:35:LEU:HD23	27:B2:35:LEU:C	2.37	0.45
1:CA:533:A:H3'	1:CA:533:A:OP1	2.17	0.45
40:DF:2:LYS:CD	40:DF:25:PRO:HG2	2.46	0.45
48:DP:5:ASP:OD2	48:DP:9:ASN:ND2	2.50	0.45
41:BG:91:ARG:CD	41:BG:92:VAL:N	2.72	0.45
24:AY:203:GLU:HA	24:AY:203:GLU:OE2	2.16	0.45
24:AY:181:LEU:CD1	24:AY:242:LEU:HD22	2.46	0.45
40:BF:26:ALA:O	40:BF:27:GLU:HG3	2.17	0.45
54:DV:4:ILE:HA	54:DV:12:TYR:O	2.17	0.45
22:AW:68:C:H2'	22:AW:69:C:C6	2.51	0.45
24:AY:468:ARG:CG	24:AY:468:ARG:HH11	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:46:LYS:HG2	48:BP:52:GLU:HG2	1.99	0.45
35:DA:84:A:N3	35:DA:85:G:H1'	2.32	0.45
57:BY:28:LYS:HD2	57:BY:37:VAL:HG11	1.99	0.45
27:B2:69:ARG:O	27:B2:70:GLN:HB2	2.16	0.45
24:CY:112:GLN:HG3	24:CY:115:GLU:CA	2.46	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:N	2.80	0.45
51:BS:70:GLY:CA	51:BS:101:LEU:HD23	2.46	0.45
35:DA:2287:A:N6	35:DA:2344:U:C2	2.84	0.45
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.81	0.45
3:CC:35:GLU:OE1	3:CC:97:LYS:HE3	2.17	0.45
35:DA:154(A):C:H42	35:DA:172:C:N4	2.14	0.45
40:BF:10:PRO:HD2	40:BF:13:SER:O	2.16	0.45
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.32	0.45
35:BA:1782:C:C2'	35:BA:1783:A:H5'	2.47	0.45
48:DP:88:LEU:HD11	48:DP:95:VAL:HG11	1.99	0.45
26:B1:44:PRO:HB2	26:B1:46:LEU:HD12	1.98	0.45
44:BK:23:VAL:O	44:BK:23:VAL:HG12	2.16	0.45
29:D4:1:MET:HG2	41:DG:98:ARG:NH2	2.32	0.45
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.99	0.45
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.17	0.45
39:BE:32:PRO:HA	39:BE:90:THR:HG23	1.97	0.45
46:DN:61:ARG:HH11	46:DN:61:ARG:HG3	1.82	0.45
50:BR:97:VAL:O	50:BR:98:LEU:HD23	2.16	0.45
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	2.15	0.45
40:BF:68:LYS:HG3	40:BF:69:HIS:HD2	1.81	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:N	2.30	0.45
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.81	0.45
24:AY:334:THR:HG23	24:AY:370:LYS:HA	1.99	0.45
2:CB:220:ASP:O	2:CB:222:ILE:N	2.50	0.45
5:CE:11:ILE:HD13	5:CE:105:VAL:HG13	1.98	0.45
19:CS:42:PRO:C	19:CS:43:GLU:HG3	2.37	0.45
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.52	0.45
36:DB:89:G:N1	36:DB:90:A:C2	2.85	0.45
11:CK:125:PHE:HD1	11:CK:125:PHE:N	2.15	0.45
26:B1:4:VAL:HA	26:B1:10:LYS:O	2.17	0.45
30:D5:34:PRO:HG3	35:DA:2885:C:O2'	2.16	0.45
24:AY:417:THR:C	24:AY:419:ALA:N	2.70	0.45
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.45	0.45
52:DT:50:ILE:HG23	52:DT:99:LEU:O	2.16	0.45
24:CY:510:VAL:HG22	24:CY:534:ILE:CD1	2.46	0.45
25:D0:14:ARG:NH1	35:DA:2279:G:O6	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1331:A:C2'	35:BA:1332:G:H5''	2.46	0.45
35:DA:1529:G:C2	35:DA:1541:G:N2	2.84	0.45
35:DA:1434:A:H5'	35:DA:1435:G:OP2	2.17	0.45
35:DA:1127:A:C2'	35:DA:1128:A:H5''	2.44	0.45
1:AA:1123:A:H61	1:AA:1149:C:N4	2.14	0.45
3:AC:3:ASN:O	3:AC:4:LYS:CB	2.60	0.45
35:BA:1053:C:H2'	35:BA:1054:A:C5'	2.42	0.45
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.45
11:AK:58:PRO:O	11:AK:59:TYR:C	2.54	0.45
35:BA:1186:G:H2'	35:BA:1187:G:H5'	1.99	0.45
24:CY:15:ILE:HB	24:CY:104:ALA:HA	1.97	0.45
24:CY:120:THR:O	24:CY:124:GLN:CD	2.55	0.45
46:BN:26:LEU:C	46:BN:26:LEU:CD1	2.80	0.45
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HA	2.32	0.45
35:DA:910:A:C6	49:DQ:13:GLN:HG3	2.51	0.45
12:AL:47:LYS:HZ3	12:AL:48:PRO:HD3	1.81	0.45
12:AL:7:ILE:CG2	12:AL:8:ASN:N	2.80	0.45
22:CV:5:G:N2	22:CV:69:C:C2	2.84	0.45
35:BA:176:G:C2'	35:BA:177:G:H5'	2.47	0.45
58:BZ:162:GLU:O	58:BZ:163:LEU:O	2.35	0.45
48:DP:71:VAL:HG12	48:DP:72:PRO:HD3	1.99	0.45
37:BC:79:ALA:HB1	37:BC:83:LYS:HB2	1.97	0.45
43:BJ:73:UNK:O	43:BJ:74:UNK:C	2.63	0.45
57:BY:49:VAL:HG12	57:BY:50:ARG:N	2.32	0.45
58:BZ:14:LYS:O	58:BZ:16:SER:N	2.50	0.45
1:CA:923:A:O2'	1:CA:924:C:H5'	2.17	0.45
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.36	0.45
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.16	0.45
35:BA:2628:C:O2'	35:BA:2781:A:H2'	2.17	0.45
54:DV:32:THR:HG22	54:DV:33:VAL:N	2.32	0.45
24:CY:439:ARG:N	24:CY:452:SER:HB3	2.32	0.45
3:AC:25:GLY:C	3:AC:27:LYS:N	2.70	0.45
57:DY:105:ALA:O	57:DY:106:LEU:HB2	2.17	0.45
2:AB:9:GLU:HG2	2:AB:10:LEU:N	2.32	0.45
17:AQ:99:SER:O	17:AQ:100:LYS:HG3	2.17	0.45
6:AF:53:ALA:C	6:AF:55:ASP:H	2.19	0.45
39:DE:165:VAL:HB	39:DE:189:PRO:HB3	1.99	0.45
24:AY:562:ASP:O	24:AY:563:ILE:HG23	2.15	0.45
35:DA:425:G:H2'	35:DA:426:C:H6	1.80	0.45
1:AA:260:G:H2'	1:AA:261:U:C6	2.50	0.45
52:DT:96:ARG:CZ	52:DT:96:ARG:HB3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1445(A):C:O2	35:DA:1445(A):C:H2'	2.15	0.45
35:BA:718:A:H3'	35:BA:719:C:H6	1.81	0.45
1:AA:32:A:H2'	1:AA:33:A:C8	2.52	0.45
17:CQ:22:LEU:HD13	17:CQ:41:LYS:HG2	1.98	0.45
35:DA:307:G:H21	35:DA:330:A:N6	2.14	0.45
22:AV:9:G:O2'	22:AV:10:G:N7	2.45	0.45
50:BR:59:ASP:O	50:BR:60:LEU:C	2.55	0.45
36:DB:56:G:H4'	41:DG:27:ASN:HD21	1.81	0.45
7:CG:134:ALA:O	7:CG:137:LYS:N	2.45	0.45
1:CA:841:U:H3'	1:CA:848:C:C5'	2.47	0.45
35:BA:1590:U:H2'	35:BA:1591:G:H8	1.82	0.45
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.30	0.45
4:AD:191:ARG:O	4:AD:191:ARG:NH1	2.49	0.45
36:BB:40:U:H5''	36:BB:41:U:OP2	2.16	0.45
41:BG:58:GLN:C	41:BG:60:LEU:N	2.69	0.45
61:CY:702:FUA:O2	61:CY:702:FUA:H211	2.16	0.45
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.46	0.45
24:CY:622:GLY:O	35:DA:2473:U:O2	2.35	0.45
24:AY:259:PHE:CE2	24:AY:275:ALA:HB2	2.51	0.45
40:BF:2:LYS:CD	40:BF:25:PRO:HG2	2.47	0.45
53:DU:57:PHE:O	53:DU:58:ARG:C	2.53	0.45
24:AY:422:GLU:O	24:AY:423:LYS:C	2.54	0.45
35:BA:2131:G:C8	35:BA:2133:G:N2	2.85	0.45
48:BP:25:SER:O	48:BP:30:THR:CG2	2.65	0.45
40:DF:167:ALA:HA	40:DF:170:LEU:HD23	1.98	0.45
57:BY:9:LYS:O	57:BY:28:LYS:HE2	2.17	0.45
31:D6:11:LEU:O	31:D6:11:LEU:HD13	2.17	0.45
31:D6:29:ASN:CG	31:D6:30:THR:N	2.70	0.45
33:D8:48:PHE:O	33:D8:49:VAL:CG2	2.62	0.45
41:DG:112:PRO:O	41:DG:113:ARG:HG2	2.17	0.45
41:DG:52:ILE:HG22	41:DG:53:LEU:N	2.32	0.45
29:D4:9:LEU:HD23	41:DG:65:GLY:HA3	1.98	0.45
41:DG:67:LYS:HA	41:DG:68:PRO:HD3	1.73	0.45
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.30	0.45
37:DC:139:PRO:HA	37:DC:145:THR:CB	2.47	0.45
41:BG:133:LEU:HD12	41:BG:133:LEU:O	2.16	0.45
31:B6:15:GLU:CD	31:B6:44:ARG:HH22	2.18	0.45
35:BA:1596:A:C2'	35:BA:1597:A:H5'	2.46	0.45
18:CR:37:VAL:O	18:CR:41:LYS:N	2.38	0.45
1:AA:129(A):G:C6	1:AA:189(E):U:H4'	2.52	0.45
2:CB:126:GLU:O	2:CB:129:GLU:OE2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:135:PRO:O	46:BN:136:GLU:C	2.55	0.45
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.16	0.45
48:BP:126:VAL:HG12	48:BP:148:LEU:HD21	1.99	0.45
39:BE:145:LYS:O	39:BE:146:THR:C	2.54	0.45
39:BE:67:PHE:O	39:BE:70:ALA:HB2	2.17	0.45
39:BE:68:ALA:O	39:BE:70:ALA:N	2.49	0.45
35:DA:1015:G:H2'	35:DA:1016:G:C8	2.51	0.45
41:DG:97:ASP:H	41:DG:100:TRP:HD1	1.65	0.45
3:AC:87:LEU:O	3:AC:88:ARG:C	2.55	0.45
24:AY:334:THR:HG23	24:AY:369:LEU:O	2.16	0.45
5:AE:50:GLU:HB3	5:AE:53:LEU:HG	1.97	0.45
1:AA:1363(A):A:C4'	1:AA:1364:U:H5''	2.42	0.45
39:BE:27:LEU:HD12	39:BE:181:LEU:HD13	1.99	0.45
26:D1:53:VAL:HG22	26:D1:74:VAL:HG13	1.99	0.45
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.47	0.45
46:BN:96:GLU:O	46:BN:100:GLU:HG3	2.17	0.45
27:D2:32:LEU:CA	27:D2:53:LEU:HD13	2.38	0.45
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.89	0.45
1:CA:1234:C:HO2'	1:CA:1364:U:H6	1.62	0.45
35:DA:1463:C:H2'	35:DA:1464:C:H6	1.82	0.45
9:CI:79:LEU:HD13	9:CI:83:ARG:CB	2.41	0.45
34:D9:29:ASN:O	34:D9:31:LYS:N	2.49	0.45
12:CL:33:ARG:HG3	12:CL:60:LEU:HD12	1.97	0.45
39:BE:2:LYS:CD	39:BE:95:ILE:HG22	2.47	0.45
35:BA:1434:A:H5'	35:BA:1435:G:OP2	2.16	0.45
38:DD:124:PRO:O	38:DD:129:ASN:ND2	2.49	0.45
30:D5:58:LEU:C	30:D5:58:LEU:HD22	2.37	0.45
35:DA:2163:C:H2'	35:DA:2164:C:H5'	1.98	0.45
37:DC:86:GLU:O	37:DC:90:ALA:HB2	2.16	0.45
44:BK:17:ALA:HB3	44:BK:38:VAL:CG1	2.47	0.45
24:CY:592:GLU:HA	24:CY:595:GLN:CB	2.43	0.45
50:BR:12:ARG:CG	50:BR:12:ARG:NH1	2.78	0.45
18:CR:30:ASP:C	18:CR:32:ARG:H	2.19	0.45
1:CA:1352:C:OP1	21:CU:3:LYS:HE2	2.16	0.45
12:AL:38:THR:HG23	12:AL:57:LYS:CB	2.46	0.45
10:CJ:22:LYS:HZ2	10:CJ:88:LEU:HD23	1.81	0.45
1:CA:50:A:N6	1:CA:361:G:C4'	2.76	0.45
35:BA:2521:C:O2	35:BA:2521:C:H2'	2.15	0.45
1:AA:1352:C:OP1	21:AU:3:LYS:CE	2.65	0.45
12:CL:7:ILE:HA	12:CL:10:LEU:HD12	1.98	0.45
12:CL:38:THR:CG2	12:CL:57:LYS:HB3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:94:TYR:HA	42:BH:106:THR:O	2.17	0.45
1:AA:1329:A:H4'	13:AM:24:GLY:O	2.16	0.45
26:D1:60:PHE:CE1	26:D1:91:LYS:HG3	2.52	0.45
35:DA:1342:A:O2'	35:DA:1344:G:OP2	2.30	0.45
35:BA:688:U:H5'	35:BA:1780:A:H2	1.82	0.45
3:AC:136:GLN:O	3:AC:138:VAL:N	2.50	0.45
54:BV:35:LEU:HB3	54:BV:37:VAL:CG2	2.47	0.45
35:DA:528:A:N1	35:DA:2042:A:H2'	2.32	0.45
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.32	0.45
35:BA:603:A:O2'	35:BA:604:G:P	2.75	0.45
51:DS:56:LEU:C	51:DS:58:LEU:H	2.19	0.45
51:DS:56:LEU:O	51:DS:58:LEU:N	2.50	0.45
1:CA:1231:G:C2'	1:CA:1232:U:H5'	2.46	0.45
24:CY:448:GLN:NE2	24:CY:480:GLN:HE21	2.14	0.45
35:DA:1386:C:H5''	35:DA:1396:U:H5	1.81	0.45
38:DD:28:GLU:OE1	38:DD:29:PRO:HD2	2.17	0.45
21:CU:6:ARG:NH2	21:CU:15:ARG:HH22	2.14	0.45
42:BH:68:THR:C	42:BH:70:THR:N	2.69	0.45
1:AA:665:A:H2'	1:AA:725:G:N2	2.31	0.45
1:CA:812:C:O2'	1:CA:813:U:P	2.73	0.45
35:BA:2840:C:H5''	50:BR:53:HIS:CD2	2.52	0.45
35:BA:214:G:H2'	35:BA:215:G:O4'	2.16	0.45
35:DA:541:C:H42	35:DA:552:G:H1	1.65	0.45
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.53	0.45
1:CA:403:C:H2'	1:CA:404:U:H6	1.81	0.45
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.30	0.45
37:BC:191:ARG:NH1	37:BC:191:ARG:HG3	2.31	0.45
35:BA:1196:C:O4'	35:BA:1226:A:C2	2.70	0.45
1:CA:1416:G:O2'	1:CA:1417:G:H5'	2.17	0.45
1:AA:1009:G:C2	1:AA:1010:G:C8	3.04	0.45
35:BA:271(K):U:H3'	35:BA:271(L):U:C5'	2.47	0.45
24:CY:182:ARG:C	24:CY:184:LYS:N	2.70	0.45
35:BA:1572:A:O2'	35:BA:1573:G:H5'	2.17	0.45
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.15	0.45
22:AW:42:C:C2	22:AW:43:G:C8	3.05	0.45
5:CE:139:LEU:C	5:CE:141:GLN:N	2.70	0.45
35:DA:324:A:N6	35:DA:338:G:O2'	2.50	0.45
1:AA:452:A:H4'	16:AP:72:ARG:CZ	2.47	0.45
35:BA:602:G:N1	35:BA:654(U):A:N7	2.65	0.45
40:BF:112:MET:HA	40:BF:115:ALA:HB3	1.99	0.45
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:836:G:C6	1:AA:851:G:C6	3.04	0.45
7:CG:138:LYS:HE3	7:CG:142:GLU:OE1	2.17	0.45
1:CA:56:U:H2'	1:CA:57:G:C8	2.52	0.45
1:CA:57:G:H2'	1:CA:58:C:C6	2.51	0.45
22:AV:50:U:O2'	22:AV:51:C:H5'	2.16	0.45
38:BD:197:GLY:O	38:BD:198:ASN:HB3	2.17	0.45
35:DA:2576:G:N3	35:DA:2576:G:H3'	2.32	0.45
1:CA:695:A:H2'	1:CA:696:A:C8	2.51	0.45
41:BG:138:GLN:HG3	41:BG:144:ILE:CD1	2.46	0.45
41:BG:153:ARG:HH11	41:BG:153:ARG:CB	2.29	0.45
39:BE:131:ALA:HB3	39:BE:134:ILE:CD1	2.17	0.45
40:BF:118:ALA:O	40:BF:121:GLY:N	2.49	0.45
39:DE:132:HIS:HA	39:DE:135:HIS:CE1	2.51	0.45
54:BV:39:LEU:HD12	54:BV:47:VAL:HG11	1.99	0.45
27:B2:63:VAL:HG12	27:B2:67:LYS:CG	2.47	0.45
31:D6:11:LEU:C	31:D6:11:LEU:HD22	2.37	0.45
31:D6:30:THR:O	31:D6:31:PRO:C	2.55	0.45
13:CM:4:ILE:CG2	13:CM:5:ALA:N	2.79	0.45
41:DG:114:ILE:HB	41:DG:117:PHE:HB2	1.98	0.45
25:B0:11:ARG:CB	25:B0:11:ARG:HH11	2.07	0.45
30:B5:3:LYS:HD2	30:B5:5:PRO:CD	2.42	0.45
24:CY:282:SER:C	24:CY:284:LEU:N	2.70	0.45
28:D3:31:LEU:O	28:D3:32:GLN:CB	2.65	0.45
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.99	0.45
1:AA:1321:C:H3'	1:AA:1322:C:C5'	2.33	0.45
2:CB:119:GLU:C	2:CB:121:LEU:H	2.20	0.45
26:B1:86:SER:CA	26:B1:89:GLU:HB2	2.47	0.45
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.16	0.45
1:AA:1506:U:O2'	1:AA:1507:A:H5'	2.17	0.45
35:DA:814:C:N3	35:DA:1193:G:O6	2.50	0.45
2:CB:24:TRP:CH2	2:CB:26:PRO:HA	2.52	0.45
29:D4:1:MET:H1	36:DB:43:C:H4'	1.80	0.45
41:DG:98:ARG:N	41:DG:98:ARG:HH11	2.14	0.45
1:AA:1103:C:H5''	2:AB:98:LEU:HD13	1.99	0.45
39:DE:67:PHE:O	39:DE:70:ALA:HB2	2.17	0.45
39:DE:78:LEU:HD12	39:DE:78:LEU:O	2.16	0.45
39:BE:69:LYS:HD3	39:BE:89:ASP:HA	1.98	0.45
35:BA:2298:A:N6	35:BA:2318:G:C8	2.81	0.45
24:AY:513:LYS:HB3	24:AY:566:THR:HB	1.95	0.45
50:BR:34:ILE:O	50:BR:113:LEU:HD12	2.17	0.45
54:DV:19:LYS:HG3	54:DV:20:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:270:ILE:HD12	38:BD:270:ILE:H	1.80	0.45
1:AA:1226:C:H5''	13:AM:103:THR:HB	1.97	0.45
52:DT:83:ILE:CG1	52:DT:84:GLN:H	2.30	0.45
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.99	0.45
39:DE:177:PRO:HG2	39:DE:178:GLU:H	1.80	0.45
1:CA:697:U:H2'	1:CA:698:G:C5'	2.38	0.45
15:AO:23:GLY:O	15:AO:24:SER:O	2.35	0.45
44:DK:21:PRO:HA	44:DK:23:VAL:H	1.81	0.45
5:CE:60:TYR:HE1	5:CE:64:ARG:NH2	2.13	0.45
9:AI:95:LYS:HZ2	9:AI:96:LEU:CD1	2.30	0.45
42:DH:83:TYR:HA	42:DH:135:GLY:O	2.16	0.45
52:DT:50:ILE:N	52:DT:50:ILE:CD1	2.78	0.45
35:BA:7:G:H1	35:BA:2896:C:N4	2.15	0.45
35:BA:238:C:H2'	35:BA:239:U:O4'	2.16	0.45
38:BD:24:ILE:CD1	38:BD:25:THR:N	2.78	0.45
19:AS:11:VAL:O	19:AS:11:VAL:HG13	2.17	0.45
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG13	1.97	0.45
40:BF:132:VAL:CG2	40:BF:133:ASN:N	2.79	0.45
35:DA:2514:U:C2	35:DA:2515:C:C5	3.05	0.45
39:DE:93:VAL:C	39:DE:95:ILE:H	2.20	0.45
35:DA:409:C:O2'	35:DA:410:G:H5'	2.17	0.45
19:AS:7:LYS:HA	19:AS:7:LYS:HD3	1.75	0.45
35:DA:558:G:P	46:DN:111:PRO:HD2	2.56	0.45
4:AD:163:GLU:HA	4:AD:163:GLU:OE2	2.17	0.45
24:AY:446:THR:O	24:AY:446:THR:HG23	2.16	0.45
49:DQ:21:THR:O	49:DQ:22:LYS:CB	2.61	0.45
55:BW:20:VAL:HG23	55:BW:21:VAL:H	1.82	0.45
9:CI:40:LEU:O	9:CI:42:ARG:N	2.43	0.45
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HA	2.32	0.45
42:BH:94:TYR:CD1	42:BH:94:TYR:N	2.84	0.45
35:DA:531:C:C5	35:DA:2035:G:C2	3.04	0.45
1:AA:36:C:H4'	12:AL:122:THR:O	2.16	0.45
3:CC:136:GLN:HG3	3:CC:139:GLN:CB	2.46	0.45
13:CM:37:THR:HG21	13:CM:56:LEU:CD2	2.46	0.45
42:BH:86:GLU:OE2	42:BH:86:GLU:N	2.49	0.45
35:BA:271(Z):C:H1'	35:BA:272(C):G:H1'	1.98	0.45
43:BJ:26:UNK:HA	43:BJ:85:UNK:N	2.31	0.45
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.49	0.45
24:CY:438:PHE:HD2	24:CY:438:PHE:O	2.00	0.45
35:BA:1718:G:C5'	35:BA:1718:G:H8	2.28	0.45
35:BA:1774:C:H6	35:BA:1774:C:O5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:246:C:C2'	35:BA:247:G:H5'	2.46	0.45
39:DE:101:ARG:CZ	39:DE:171:GLU:HB2	2.47	0.45
35:BA:311:A:H5'	35:BA:332:A:N3	2.32	0.45
35:BA:1050:A:C4	35:BA:1051:G:H1'	2.52	0.45
54:BV:1:MET:HB3	54:BV:2:PHE:H	1.54	0.45
22:AV:74:C:H2'	22:AV:75:C:H5'	1.99	0.45
18:CR:40:LEU:C	18:CR:42:ARG:N	2.67	0.45
43:DJ:130:UNK:C	43:DJ:132:UNK:N	2.80	0.45
14:CN:44:LEU:C	14:CN:44:LEU:HD12	2.37	0.45
10:AJ:58:ASP:O	10:AJ:59:SER:O	2.35	0.45
26:D1:20:ARG:HH12	35:DA:387:U:P	2.39	0.45
58:BZ:95:PRO:HA	58:BZ:129:SER:HA	1.99	0.45
35:DA:402:A:H2'	35:DA:403:U:H5'	1.98	0.45
1:AA:622:A:C8	1:AA:623:C:C6	3.04	0.45
1:CA:1217:C:O2	1:CA:1217:C:H2'	2.16	0.45
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.47	0.45
1:AA:830:G:H2'	1:AA:831:U:H6	1.82	0.45
1:CA:830:G:H2'	1:CA:831:U:H6	1.81	0.45
35:BA:1487:G:H3'	35:BA:1488:G:H8	1.82	0.45
2:AB:73:THR:HG23	2:AB:170:GLU:OE2	2.16	0.45
35:DA:1551:C:H2'	35:DA:1552:G:O4'	2.16	0.45
52:DT:49:VAL:O	52:DT:49:VAL:HG22	2.17	0.45
55:DW:13:SER:HB3	55:DW:16:LYS:HD2	1.98	0.45
35:DA:1294:U:H6	35:DA:1294:U:H5''	1.81	0.45
35:DA:1680:U:H2'	35:DA:1681:G:O4'	2.17	0.45
35:BA:2642:G:O2'	35:BA:2643:G:H5'	2.16	0.45
41:BG:40:ASN:HD22	41:BG:91:ARG:HB2	1.81	0.45
4:AD:25:ARG:O	4:AD:28:SER:N	2.50	0.45
24:AY:121:VAL:HA	24:AY:124:GLN:NE2	2.31	0.45
24:AY:237:PRO:HB2	24:AY:242:LEU:HG	1.97	0.45
22:CW:37:U:H2'	22:CW:38:A:H8	1.81	0.45
53:BU:64:ARG:O	53:BU:65:ILE:C	2.55	0.45
38:DD:34:VAL:CG2	38:DD:35:LYS:N	2.70	0.45
31:B6:30:THR:O	31:B6:31:PRO:C	2.55	0.45
33:B8:50:LEU:C	33:B8:52:LYS:H	2.17	0.45
19:CS:10:PHE:CE2	19:CS:37:ARG:O	2.69	0.45
57:DY:95:LYS:CE	57:DY:101:LYS:H	2.30	0.45
58:BZ:69:THR:HA	58:BZ:89:PHE:O	2.16	0.45
57:BY:14:LEU:HD13	57:BY:24:VAL:CG2	2.46	0.45
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.32	0.45
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2419:U:O2'	35:DA:2420:C:H5'	2.16	0.45
29:D4:26:SER:HB3	41:DG:105:LYS:NZ	2.32	0.45
47:BO:64:ARG:NH1	47:BO:83:ALA:CB	2.80	0.45
57:BY:81:LYS:HD2	57:BY:96:ILE:CG2	2.46	0.45
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.62	0.45
5:AE:101:ILE:HD11	5:AE:119:LEU:CA	2.28	0.45
30:B5:3:LYS:HG2	35:BA:747:U:C4	2.52	0.45
24:CY:164:MET:SD	24:CY:216:LEU:CD1	3.05	0.45
40:DF:127:GLU:O	40:DF:127:GLU:OE2	2.35	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.82	0.45
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.81	0.45
27:B2:3:LEU:O	27:B2:7:ARG:NH1	2.49	0.45
38:BD:67:PHE:CE1	38:BD:157:ARG:NH2	2.85	0.45
35:DA:963:U:H2'	35:DA:964:C:C6	2.52	0.45
35:DA:26:G:H1'	35:DA:515:A:N6	2.32	0.45
35:DA:568:U:H2'	35:DA:570:G:OP2	2.16	0.45
1:AA:1522:U:H6	1:AA:1522:U:O5'	2.00	0.45
48:BP:83:VAL:CG1	48:BP:114:ILE:HA	2.46	0.45
48:BP:115:LEU:CD2	48:BP:115:LEU:N	2.80	0.45
48:BP:95:VAL:HA	48:BP:99:LEU:CD2	2.41	0.45
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.82	0.45
35:DA:2754:U:C2'	35:DA:2755:C:H5'	2.47	0.45
58:DZ:14:LYS:O	58:DZ:18:LEU:HD13	2.16	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:O	2.17	0.45
24:AY:368:GLU:C	24:AY:369:LEU:HD12	2.36	0.45
35:DA:2762:G:C8	35:DA:2762:G:C5'	3.00	0.45
52:DT:29:ARG:HG3	52:DT:30:VAL:HG13	1.99	0.45
5:AE:12:LEU:H	5:AE:12:LEU:HD12	1.82	0.45
17:CQ:52:LYS:HD3	17:CQ:55:ASP:OD2	2.16	0.45
44:DK:8:VAL:HG12	44:DK:10:LEU:HG	1.98	0.45
35:DA:271(H):G:H1	35:DA:271(P):C:N4	2.15	0.45
52:DT:55:ASN:ND2	52:DT:55:ASN:O	2.49	0.45
38:BD:196:VAL:HG12	38:BD:196:VAL:O	2.16	0.45
24:CY:530:VAL:HG22	24:CY:531:GLY:N	2.24	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.85	0.45
50:DR:3:HIS:O	50:DR:4:LEU:HB3	2.16	0.45
1:CA:1371:G:OP2	9:CI:11:LYS:HD2	2.17	0.45
35:BA:2020:A:C6	35:BA:2022:U:N3	2.84	0.45
58:DZ:25:PRO:HA	58:DZ:38:TYR:HB2	1.98	0.45
36:DB:82:G:C2	36:DB:83:G:C8	3.05	0.45
1:AA:193:C:C2	1:AA:194:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.43	0.45
35:DA:2441:C:O2'	35:DA:2442:C:H5'	2.17	0.45
35:DA:677:A:H4'	35:DA:2070:G:O2'	2.16	0.45
42:BH:149:ARG:HA	42:BH:162:ILE:CG1	2.47	0.45
4:AD:58:LEU:HD22	4:AD:59:ARG:NH1	2.32	0.45
35:BA:2147:G:H2'	35:BA:2148:G:C5'	2.47	0.45
26:D1:62:VAL:HG22	26:D1:63:ALA:N	2.32	0.45
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.47	0.45
7:AG:80:VAL:CG2	7:AG:81:GLY:H	2.27	0.45
24:AY:519:ARG:HH12	24:AY:678:GLU:HB3	1.82	0.45
36:BB:74:U:O2	58:BZ:34:ASN:ND2	2.50	0.45
15:AO:43:LEU:CD1	15:AO:56:LEU:HD22	2.46	0.45
12:CL:38:THR:HG23	12:CL:57:LYS:HB3	1.99	0.45
58:DZ:82:ARG:O	58:DZ:83:PRO:C	2.54	0.45
52:DT:45:PHE:HE2	52:DT:74:ARG:HB2	1.79	0.45
35:DA:222:A:H5''	35:DA:421:U:OP1	2.17	0.45
24:CY:424:LEU:HD12	24:CY:427:ALA:CB	2.46	0.45
46:DN:125:GLY:CA	46:DN:126:PRO:O	2.64	0.45
35:DA:686:G:N2	35:DA:788:A:H61	2.15	0.45
54:DV:35:LEU:HB3	54:DV:37:VAL:CG2	2.46	0.45
48:BP:121:LYS:O	48:BP:123:LEU:HD23	2.16	0.45
22:CW:52:C:H2'	22:CW:53:G:C5'	2.46	0.45
50:DR:18:LEU:HD21	50:DR:22:ARG:CZ	2.46	0.45
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.47	0.45
37:BC:74:ARG:N	37:BC:112:ASP:HB2	2.29	0.45
21:AU:23:PRO:C	21:AU:25:LYS:N	2.70	0.45
24:CY:498:ILE:HG22	24:CY:507:TYR:CE2	2.52	0.45
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.32	0.45
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	1.98	0.45
35:DA:2836:U:C4	35:DA:2883:A:N6	2.85	0.45
49:DQ:59:ARG:O	49:DQ:60:ARG:HB2	2.17	0.45
1:AA:1413:A:H2'	1:AA:1414:U:O4'	2.17	0.45
20:AT:42:GLN:NE2	20:AT:42:GLN:CA	2.80	0.45
58:BZ:3:TYR:CD2	58:BZ:47:VAL:HG13	2.52	0.45
35:DA:2604:U:H2'	35:DA:2605:U:H6	1.81	0.45
32:D7:35:ARG:O	32:D7:38:GLY:N	2.48	0.45
35:BA:291:C:H2'	35:BA:292:C:C6	2.51	0.45
35:DA:440:G:N2	40:DF:46:ARG:NH2	2.65	0.45
50:BR:65:LEU:O	50:BR:65:LEU:HD12	2.16	0.45
35:BA:402:A:H2'	35:BA:403:U:H5'	1.97	0.45
35:DA:1341:U:H4'	56:DX:57:LEU:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2845:G:H8	35:DA:2845:G:O5'	2.00	0.45
43:DJ:94:UNK:O	43:DJ:95:UNK:C	2.64	0.45
1:AA:57:G:H2'	1:AA:58:C:C6	2.52	0.45
1:AA:646:U:H2'	1:AA:647:C:C6	2.52	0.45
1:CA:256:U:O2'	1:CA:257:G:H5'	2.17	0.45
24:AY:130:VAL:HA	24:AY:131:PRO:HD3	1.75	0.45
47:BO:14:THR:O	47:BO:14:THR:HG22	2.17	0.45
1:CA:32:A:H2'	1:CA:33:A:C8	2.52	0.45
1:AA:114:U:H2'	1:AA:115:G:C8	2.52	0.45
36:DB:76:G:H21	58:DZ:75:ASN:ND2	2.14	0.45
2:CB:52:GLU:O	2:CB:56:ARG:HG2	2.16	0.45
35:DA:560:C:H2'	35:DA:561:G:O4'	2.17	0.45
15:CO:3:ILE:HG13	15:CO:3:ILE:O	2.16	0.45
52:BT:14:TYR:CD1	52:BT:14:TYR:N	2.85	0.45
1:AA:519:C:H2'	1:AA:520:A:O4'	2.16	0.45
7:CG:22:LEU:HD23	7:CG:22:LEU:O	2.15	0.45
35:DA:950:G:H2'	35:DA:951:C:C6	2.52	0.45
40:DF:31:HIS:O	40:DF:34:TRP:HB3	2.17	0.45
35:DA:1045:A:O2'	35:DA:1047:G:C5	2.66	0.45
24:CY:453:GLY:HA2	24:CY:458:HIS:CD2	2.52	0.45
1:CA:693:G:C5	23:CX:13:A:H1'	2.52	0.45
53:DU:96:ALA:C	53:DU:98:LEU:H	2.20	0.45
53:BU:106:PHE:HA	53:BU:109:LEU:HD12	1.99	0.45
33:B8:36:LYS:O	33:B8:37:SER:C	2.55	0.45
40:DF:201:VAL:HA	40:DF:204:ASN:HD22	1.82	0.45
22:CW:77:A:O2'	35:DA:2394:C:N3	2.40	0.45
27:D2:37:PHE:O	27:D2:41:ILE:HG23	2.17	0.45
19:CS:58:VAL:O	19:CS:60:VAL:N	2.50	0.45
57:BY:77:PRO:HB2	57:BY:99:CYS:SG	2.57	0.45
35:BA:1840:G:H1	35:BA:1902:C:N4	2.15	0.45
3:CC:84:ILE:O	3:CC:84:ILE:HG12	2.16	0.45
24:CY:145:ASP:OD2	24:CY:148:LEU:HB2	2.17	0.45
24:CY:206:LEU:HD12	24:CY:210:ARG:HH12	1.82	0.45
35:BA:2369:A:H2'	35:BA:2370:G:H8	1.82	0.45
24:AY:191:ASP:OD1	24:AY:191:ASP:N	2.50	0.45
47:BO:61:VAL:N	47:BO:87:ILE:HD11	2.32	0.45
3:AC:165:THR:O	3:AC:165:THR:HG23	2.16	0.45
26:B1:82:LEU:C	26:B1:83:GLU:HG3	2.37	0.45
2:CB:24:TRP:HA	2:CB:190:THR:O	2.17	0.45
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.45	0.45
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2809:A:C2	35:DA:2892:A:N3	2.84	0.45
35:DA:2787:C:H1'	39:DE:61:ARG:HD3	1.99	0.45
40:DF:83:PHE:O	40:DF:84:VAL:C	2.53	0.45
1:AA:973:G:O4'	10:AJ:55:LYS:CG	2.57	0.45
35:DA:2712:U:H2'	35:DA:2713:A:H5'	1.98	0.45
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.78	0.45
1:AA:322:C:H41	1:AA:328:C:H6	1.64	0.45
2:AB:208:ILE:O	2:AB:212:GLN:HB2	2.16	0.45
2:AB:238:LEU:O	2:AB:240:GLN:N	2.49	0.45
24:AY:100:VAL:HG22	24:AY:101:LEU:N	2.32	0.45
52:BT:29:ARG:O	52:BT:30:VAL:O	2.34	0.45
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.45
1:CA:1225:A:H5''	1:CA:1226:C:OP2	2.17	0.45
36:DB:64:C:O2'	36:DB:65:C:H5'	2.17	0.45
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.99	0.45
39:BE:181:LEU:HD11	52:BT:7:ILE:HG21	1.99	0.45
35:DA:1331:A:C2'	35:DA:1332:G:H5''	2.46	0.45
35:DA:1609:A:H1'	35:DA:1616:A:H1'	1.98	0.45
52:BT:108:ARG:CG	52:BT:109:GLU:N	2.74	0.45
24:CY:428:LEU:HD13	24:CY:440:VAL:HG21	1.99	0.45
11:CK:33:THR:HB	11:CK:38:ASN:C	2.37	0.45
27:B2:48:HIS:O	27:B2:50:ILE:N	2.49	0.45
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.66	0.45
39:BE:93:VAL:O	39:BE:95:ILE:N	2.50	0.45
35:DA:1578:U:O2	35:DA:1578:U:H2'	2.17	0.45
55:BW:66:GLU:HG3	55:BW:69:LEU:HD12	1.97	0.45
35:DA:2163:C:C2'	35:DA:2164:C:H5'	2.47	0.45
51:DS:77:ALA:HB1	51:DS:82:ILE:HB	1.99	0.45
35:BA:1578:U:O2	35:BA:1578:U:H2'	2.15	0.45
35:DA:1052:C:C6	35:DA:1052:C:H3'	2.52	0.45
35:DA:1052:C:P	35:DA:1052:C:O4'	2.74	0.45
50:BR:41:ALA:O	50:BR:43:GLU:N	2.50	0.45
14:AN:29:ARG:CG	14:AN:29:ARG:HH11	2.30	0.45
24:CY:517:LEU:HD11	24:CY:564:LYS:CB	2.43	0.45
18:AR:30:ASP:C	18:AR:32:ARG:H	2.19	0.45
58:DZ:102:LEU:HG	58:DZ:122:ARG:O	2.16	0.45
28:D3:46:ASN:O	28:D3:47:VAL:C	2.54	0.45
49:BQ:108:GLY:C	49:BQ:109:VAL:HG23	2.37	0.45
35:DA:654(R):C:O2'	35:DA:654(S):G:H8	1.98	0.45
35:DA:1682:G:O2'	35:DA:1683:C:H5'	2.17	0.45
25:D0:20:ARG:CG	25:D0:20:ARG:HH11	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:80:VAL:CG2	7:CG:81:GLY:H	2.27	0.45
28:B3:44:ARG:O	28:B3:45:GLY:C	2.54	0.45
24:AY:510:VAL:HA	24:AY:570:GLY:HA3	1.98	0.45
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.80	0.45
24:AY:491:VAL:CG1	24:AY:596:LYS:HD3	2.44	0.45
1:CA:1158:C:N3	1:CA:1181:G:N2	2.56	0.45
26:B1:64:ALA:C	26:B1:66:HIS:N	2.70	0.45
1:CA:1095:U:OP1	1:CA:1108:G:N2	2.49	0.45
48:DP:122:PRO:O	48:DP:123:LEU:HD23	2.16	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.17	0.45
35:DA:1917:U:H2'	35:DA:1918:A:H5'	1.97	0.45
35:DA:1825:A:OP1	38:DD:249:PRO:HD3	2.17	0.45
35:BA:1236:G:HO2'	35:BA:1237:A:H8	1.63	0.45
35:DA:1943:U:C2'	35:DA:1943:U:O2	2.64	0.45
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.84	0.45
35:DA:2552:U:O5'	35:DA:2552:U:H6	1.99	0.45
35:DA:1328:G:H2'	35:DA:1330:C:C4	2.51	0.45
22:AW:17:C:O2	22:AW:17:C:O4'	2.33	0.45
55:BW:8:ARG:HA	55:BW:102:HIS:HA	1.99	0.45
36:DB:106:G:O2'	36:DB:107:G:H5'	2.16	0.45
35:DA:654(P):C:O2'	35:DA:654(Q):C:H5'	2.17	0.45
35:DA:214:G:H2'	35:DA:215:G:O4'	2.17	0.45
42:DH:94:TYR:CD2	42:DH:107:VAL:HG12	2.52	0.45
55:BW:25:ARG:HB2	55:BW:25:ARG:NH1	2.31	0.45
35:DA:626:U:H3	48:DP:105:LEU:HG	1.82	0.45
35:BA:438:G:H2'	35:BA:440:G:C8	2.52	0.45
1:AA:96:U:O2'	1:AA:97:G:H8	2.00	0.45
22:AW:77:A:H61	35:BA:2422:A:C5'	2.30	0.45
35:BA:41:C:N4	35:BA:437:G:H1	2.15	0.45
27:B2:32:LEU:HD11	27:B2:54:LYS:HG2	1.98	0.45
1:AA:10:A:H2'	1:AA:11:G:C8	2.52	0.45
22:AV:7:G:H3'	22:AV:8:U:H5'	1.97	0.45
44:DK:62:ASP:O	44:DK:63:ARG:HB2	2.16	0.45
1:CA:155:C:H2'	1:CA:156:G:C8	2.52	0.45
8:CH:34:GLU:O	8:CH:35:ILE:C	2.54	0.45
35:DA:74:A:H5''	35:DA:75:G:O4'	2.16	0.45
1:AA:335:C:O2	1:AA:1433:A:H2	2.00	0.45
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.38	0.45
35:BA:1771:C:H2'	35:BA:1772:G:H8	1.81	0.45
35:DA:1487:G:H2'	35:DA:1487:G:N3	2.32	0.45
4:CD:168:ARG:N	4:CD:168:ARG:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.31	0.45
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.16	0.45
42:BH:61:HIS:O	42:BH:62:LYS:C	2.55	0.45
1:CA:545:C:O2'	1:CA:546:G:H5'	2.17	0.45
52:BT:93:ARG:HD2	52:BT:93:ARG:HA	1.76	0.45
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.52	0.45
35:DA:2881:C:C2	35:DA:2882:A:C8	3.05	0.45
24:CY:358:MET:SD	24:CY:363:ARG:HG2	2.56	0.45
35:DA:864:G:H21	35:DA:866:A:H61	1.65	0.45
50:DR:59:ASP:O	50:DR:60:LEU:C	2.56	0.45
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.82	0.45
41:BG:67:LYS:CD	41:BG:68:PRO:O	2.65	0.45
35:BA:2473:U:C3'	35:BA:2474:C:H5''	2.16	0.45
40:BF:157:VAL:HG23	40:BF:157:VAL:O	2.16	0.45
24:AY:124:GLN:C	24:AY:127:LYS:HB3	2.37	0.45
35:DA:1009:A:H1'	53:DU:59:ARG:NH1	2.32	0.45
53:DU:115:ALA:C	53:DU:117:GLN:N	2.70	0.45
53:DU:50:ARG:C	53:DU:52:ARG:N	2.69	0.45
54:DV:47:VAL:O	54:DV:47:VAL:HG23	2.16	0.45
53:BU:83:LEU:CD1	53:BU:113:ALA:HB2	2.47	0.45
53:BU:83:LEU:HG	53:BU:88:ILE:HD11	1.98	0.45
24:AY:465:ARG:O	24:AY:470:PHE:HD2	1.99	0.45
33:B8:53:PRO:HG2	33:B8:54:GLU:N	2.31	0.45
1:CA:1314:C:N4	19:CS:4:SER:N	2.65	0.45
57:DY:39:VAL:O	57:DY:40:GLU:CD	2.55	0.45
19:AS:50:ALA:O	19:AS:51:VAL:C	2.56	0.45
40:DF:107:LYS:HD2	40:DF:205:ARG:O	2.16	0.45
41:DG:57:ALA:HA	41:DG:90:LEU:HD22	1.99	0.45
1:AA:1237:C:H3'	1:AA:1336:C:H41	1.82	0.45
35:BA:299:A:H1'	35:BA:322:A:N6	2.32	0.45
57:BY:91:GLU:HB2	57:BY:92:ASN:H	1.57	0.45
30:B5:3:LYS:CE	35:BA:2613:U:H2'	2.47	0.45
35:BA:1452:A:C3'	35:BA:1453:U:C5'	2.72	0.45
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.17	0.45
40:BF:126:VAL:HG23	40:BF:127:GLU:N	2.32	0.45
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.81	0.45
38:BD:43:ARG:NH1	38:BD:49:ILE:HG22	2.31	0.45
35:DA:960:A:C8	35:DA:962:G:C8	3.04	0.45
44:DK:103:GLN:HA	44:DK:106:GLU:OE2	2.17	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.17	0.45
1:AA:1505:G:C8	1:AA:1505:G:H5''	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:133:SER:O	48:BP:136:GLU:HG2	2.17	0.45
2:CB:189:ASP:OD2	2:CB:205:ASP:OD1	2.35	0.45
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.52	0.45
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.52	0.45
19:AS:15:LEU:O	19:AS:19:VAL:N	2.50	0.45
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.17	0.45
35:BA:1495:A:N3	35:BA:1496:A:C2	2.85	0.45
51:DS:87:PHE:HB2	51:DS:106:ARG:HH21	1.82	0.45
46:DN:57:ALA:O	46:DN:58:ASP:C	2.53	0.45
29:D4:21:VAL:HG12	29:D4:21:VAL:O	2.16	0.45
3:AC:83:ARG:C	3:AC:85:ARG:N	2.68	0.45
20:CT:16:HIS:O	20:CT:17:ARG:C	2.55	0.45
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.99	0.45
19:CS:15:LEU:O	19:CS:19:VAL:N	2.50	0.45
58:DZ:153:SER:O	58:DZ:155:LEU:HD23	2.16	0.45
1:CA:1225:A:N3	1:CA:1225:A:C2'	2.77	0.45
35:BA:2762:G:H8	35:BA:2762:G:C5'	2.28	0.45
36:DB:89:G:C6	36:DB:90:A:N1	2.85	0.45
57:BY:10:GLY:C	57:BY:27:VAL:HG22	2.37	0.45
12:AL:41:ARG:NH1	12:AL:41:ARG:CB	2.78	0.45
5:AE:8:GLU:HA	5:AE:34:VAL:HA	1.98	0.45
26:D1:82:LEU:HD23	26:D1:90:ILE:HD12	1.98	0.45
52:BT:55:ASN:ND2	52:BT:58:ASN:HD21	2.15	0.45
29:D4:43:TYR:CD2	29:D4:44:THR:HG23	2.52	0.45
1:AA:356:A:H1'	1:AA:368:U:O2'	2.16	0.45
58:BZ:141:VAL:O	58:BZ:142:SER:CB	2.64	0.45
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.07	0.45
40:BF:160:ASN:ND2	40:BF:162:LEU:HB2	2.28	0.45
12:CL:30:ALA:CB	12:CL:33:ARG:HH21	2.30	0.45
35:BA:288:C:O2'	35:BA:289:A:H5'	2.17	0.45
35:DA:1478:G:HO2'	35:DA:1558:A:H2	1.64	0.45
55:BW:66:GLU:HA	55:BW:69:LEU:HD12	1.97	0.45
53:DU:21:ALA:HA	53:DU:24:TYR:CD1	2.52	0.45
30:D5:59:GLU:HB3	30:D5:60:VAL:H	1.68	0.45
35:DA:2126:A:H1'	35:DA:2127:G:O4'	2.17	0.45
50:DR:11:ASN:O	50:DR:12:ARG:CB	2.64	0.45
56:BX:71:GLY:C	56:BX:72:LYS:HG3	2.37	0.45
37:BC:173:HIS:O	37:BC:174:ALA:HB2	2.16	0.45
28:D3:19:GLN:O	28:D3:22:ALA:HB3	2.16	0.45
4:CD:163:GLU:HA	4:CD:163:GLU:OE2	2.15	0.45
18:CR:44:LEU:O	18:CR:45:SER:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:13:ALA:C	27:B2:15:LYS:N	2.69	0.45
11:CK:24:SER:O	11:CK:88:GLY:HA2	2.17	0.45
24:AY:497:PHE:O	24:AY:498:ILE:O	2.35	0.45
35:BA:686:G:N2	35:BA:788:A:H61	2.15	0.45
24:CY:293:THR:C	24:CY:295:GLU:N	2.67	0.45
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.32	0.45
35:BA:389:G:O4'	35:BA:2413:G:C4'	2.65	0.45
43:BJ:67:UNK:C	43:BJ:69:UNK:N	2.80	0.45
48:DP:122:PRO:HA	48:DP:141:ALA:O	2.17	0.45
35:BA:657:U:C2	35:BA:658:C:C5	3.05	0.45
29:D4:39:CYS:SG	29:D4:42:PHE:HE2	2.40	0.45
27:B2:55:ARG:HH21	27:B2:55:ARG:HG3	1.82	0.45
33:D8:29:LYS:HD2	33:D8:44:LYS:HG2	1.99	0.45
3:CC:112:SER:OG	3:CC:114:PRO:HD2	2.17	0.45
35:BA:492:A:H2'	35:BA:493:G:C5'	2.46	0.45
35:BA:782:A:C2	38:BD:226:MET:HG2	2.51	0.45
35:BA:1499:C:C2'	35:BA:1500:G:H5'	2.46	0.45
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.47	0.45
47:BO:91:LEU:N	47:BO:91:LEU:CD2	2.79	0.45
35:DA:15:G:H2'	35:DA:16:G:H8	1.81	0.45
35:DA:17:G:H2'	35:DA:18:C:C6	2.52	0.45
1:CA:883:C:O2'	1:CA:884:U:H5'	2.17	0.45
38:BD:31:LYS:HZ2	38:BD:33:LEU:HB2	1.81	0.45
35:DA:1472:A:H2'	35:DA:1473:G:C8	2.52	0.45
35:DA:42:G:N3	35:DA:42:G:H2'	2.32	0.45
24:CY:182:ARG:C	24:CY:184:LYS:H	2.21	0.45
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.81	0.45
35:BA:338:G:O2'	35:BA:339:U:H5'	2.16	0.45
35:BA:74:A:H5''	35:BA:75:G:O4'	2.17	0.45
35:BA:2337:G:H2'	35:BA:2338:G:C8	2.52	0.45
8:CH:32:LYS:O	8:CH:34:GLU:N	2.50	0.45
1:CA:238:G:O2'	1:CA:239:U:H5'	2.17	0.45
24:CY:613:PRO:CG	24:CY:666:ARG:HH21	2.30	0.45
34:B9:2:LYS:HE3	34:B9:2:LYS:HB3	1.87	0.45
35:DA:949:C:H2'	35:DA:950:G:H8	1.81	0.45
1:AA:923:A:H2'	1:AA:924:C:C6	2.51	0.45
52:DT:113:LYS:O	52:DT:114:LEU:HD23	2.17	0.45
4:AD:168:ARG:HA	4:AD:168:ARG:HH11	1.81	0.45
35:DA:496:G:C6	35:DA:497:A:C4	3.05	0.45
46:BN:104:LYS:HB2	46:BN:117:PHE:CE1	2.52	0.45
1:AA:811:C:H4'	1:AA:900:A:N6	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:8:LYS:O	41:BG:12:TYR:HD1	2.00	0.44
41:BG:67:LYS:HD3	41:BG:68:PRO:O	2.16	0.44
24:CY:457:LEU:O	24:CY:458:HIS:C	2.55	0.44
22:AW:37:U:N3	23:AX:13:A:N6	2.65	0.44
10:CJ:4:ILE:CB	10:CJ:74:ILE:HD11	2.48	0.44
46:DN:40:PRO:O	53:DU:64:ARG:NH2	2.49	0.44
54:DV:40:LEU:CA	54:DV:45:THR:HB	2.42	0.44
1:AA:979:C:C3'	1:AA:980:C:C5'	2.76	0.44
57:DY:84:ARG:HG2	57:DY:85:VAL:H	1.83	0.44
57:DY:81:LYS:HD2	57:DY:96:ILE:CG2	2.47	0.44
40:DF:192:LEU:C	40:DF:192:LEU:CD2	2.85	0.44
51:BS:12:PHE:C	51:BS:12:PHE:HD1	2.20	0.44
1:AA:1221:G:P	19:AS:36:ARG:HD3	2.56	0.44
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.82	0.44
3:CC:83:ARG:C	3:CC:85:ARG:H	2.21	0.44
24:CY:162:VAL:CG1	24:CY:216:LEU:HD12	2.47	0.44
40:DF:10:PRO:HD2	40:DF:13:SER:O	2.17	0.44
51:BS:65:VAL:C	51:BS:67:ARG:H	2.20	0.44
3:AC:32:LEU:O	3:AC:35:GLU:HB3	2.17	0.44
3:AC:35:GLU:OE1	3:AC:97:LYS:HE3	2.17	0.44
35:DA:581:C:C2	35:DA:582:G:N7	2.85	0.44
46:BN:133:GLN:CG	46:BN:134:ARG:H	2.30	0.44
35:DA:1799:G:N2	35:DA:1818:U:H2'	2.32	0.44
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.81	0.44
44:BK:21:PRO:HA	44:BK:23:VAL:H	1.82	0.44
20:CT:30:LYS:HZ2	20:CT:34:LYS:HE3	1.81	0.44
1:AA:1225:A:N3	1:AA:1225:A:C2'	2.77	0.44
13:AM:79:LYS:HA	13:AM:82:MET:CG	2.47	0.44
24:AY:302:HIS:HA	24:AY:303:PRO:HD2	1.74	0.44
24:AY:14:ASN:ND2	24:AY:80:ASN:HD22	2.14	0.44
29:D4:51:ASP:OD2	29:D4:52:THR:HG23	2.17	0.44
5:AE:8:GLU:CA	5:AE:34:VAL:HG23	2.46	0.44
5:AE:9:LYS:NZ	5:AE:111:GLU:OE1	2.50	0.44
36:BB:86:G:H2'	36:BB:87:G:H8	1.77	0.44
42:DH:121:ILE:HD13	42:DH:144:VAL:HG21	1.99	0.44
27:D2:48:HIS:CE1	35:DA:95:G:HO2'	2.32	0.44
53:BU:33:ARG:C	53:BU:35:ALA:H	2.20	0.44
35:BA:1331:A:O2'	35:BA:1332:G:H8	2.00	0.44
35:DA:1947:C:H2'	35:DA:1948:G:H8	1.83	0.44
11:CK:33:THR:HG22	11:CK:39:PRO:CA	2.40	0.44
47:BO:24:VAL:HG23	47:BO:24:VAL:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:165:ARG:HH11	40:BF:165:ARG:HB3	1.82	0.44
42:DH:54:ARG:HH11	42:DH:54:ARG:HG2	1.82	0.44
12:CL:28:LYS:HB2	12:CL:33:ARG:HH22	1.82	0.44
35:DA:1114:G:H2'	35:DA:1115:G:C5'	2.47	0.44
36:DB:115:G:O4'	51:DS:47:THR:HB	2.17	0.44
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.35	0.44
35:DA:558:G:C5'	46:DN:112:LEU:HD22	2.47	0.44
24:CY:122:TRP:C	24:CY:124:GLN:N	2.69	0.44
36:BB:14:U:H5'	36:BB:71:C:O4'	2.16	0.44
12:AL:39:VAL:HG21	12:AL:57:LYS:HD2	1.99	0.44
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.82	0.44
35:DA:958:U:H6	35:DA:958:U:H3'	1.82	0.44
35:BA:1381:G:N2	35:BA:1382:G:H1'	2.32	0.44
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.16	0.44
27:B2:13:ALA:O	27:B2:15:LYS:N	2.50	0.44
1:AA:1347:G:H2'	1:AA:1373:G:C6	2.52	0.44
24:CY:414:GLU:O	24:CY:474:ALA:HB1	2.17	0.44
13:AM:37:THR:HG21	13:AM:56:LEU:HA	1.97	0.44
49:DQ:76:LYS:HE2	49:DQ:77:LYS:O	2.18	0.44
35:BA:625:G:H5'	35:BA:657:U:OP1	2.17	0.44
50:BR:106:GLY:O	50:BR:107:ASP:HB3	2.16	0.44
35:DA:331:A:O2'	35:DA:332:A:OP1	2.26	0.44
1:CA:781:A:C2'	1:CA:782:A:H5'	2.47	0.44
35:DA:1491:G:H2'	35:DA:1491:G:N3	2.33	0.44
38:DD:153:ALA:O	38:DD:154:LYS:CG	2.65	0.44
35:BA:333:G:N3	35:BA:333:G:H2'	2.32	0.44
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.17	0.44
3:CC:25:GLY:C	3:CC:27:LYS:N	2.70	0.44
35:DA:45:C:OP2	35:DA:215:G:H5''	2.17	0.44
35:DA:216:A:H2'	35:DA:217:G:H8	1.81	0.44
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.17	0.44
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.52	0.44
6:AF:62:TRP:CE2	18:AR:35:ARG:NH2	2.85	0.44
6:AF:60:PHE:CE2	18:AR:78:LEU:HD21	2.52	0.44
6:CF:62:TRP:CD1	18:CR:35:ARG:NH1	2.85	0.44
35:BA:526:A:N6	35:BA:2626:C:H4'	2.32	0.44
1:AA:315:A:O2'	1:AA:316:G:P	2.75	0.44
1:AA:115:G:H1'	1:AA:116:A:N7	2.32	0.44
1:CA:605:U:O2'	1:CA:606:G:H5'	2.17	0.44
35:DA:1411:C:N4	35:DA:1412:A:N6	2.66	0.44
40:DF:112:MET:HA	40:DF:115:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:826:C:H2'	1:CA:827:U:H6	1.81	0.44
1:CA:197:A:H4'	1:CA:198:G:H5'	1.98	0.44
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.17	0.44
1:AA:778:G:H1'	11:AK:119:CYS:HB3	1.98	0.44
35:DA:269:U:H2'	35:DA:270:A:H8	1.81	0.44
35:BA:1856:G:H1	35:BA:1886:C:H42	1.64	0.44
26:B1:53:VAL:O	26:B1:54:ALA:C	2.54	0.44
50:BR:94:TYR:CD1	50:BR:94:TYR:N	2.85	0.44
35:DA:1555:G:N3	35:DA:1555:G:H2'	2.32	0.44
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.81	0.44
35:BA:703:U:O2'	35:BA:704:G:H5'	2.17	0.44
41:BG:97:ASP:O	41:BG:101:ILE:HB	2.17	0.44
37:BC:88:GLU:N	37:BC:95:VAL:HG21	2.33	0.44
4:CD:8:VAL:O	4:CD:10:ARG:N	2.41	0.44
1:CA:1489:G:C5	1:CA:1490:C:C5	3.06	0.44
24:CY:519:ARG:CZ	24:CY:678:GLU:H	2.27	0.44
24:CY:25:LYS:HZ2	62:CY:703:GDP:PB	2.40	0.44
24:AY:181:LEU:HD23	24:AY:182:ARG:NH1	2.33	0.44
53:DU:82:GLY:C	53:DU:84:LYS:N	2.69	0.44
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.32	0.44
53:BU:115:ALA:C	53:BU:117:GLN:H	2.20	0.44
24:AY:435:ASP:C	24:AY:435:ASP:OD2	2.55	0.44
48:BP:47:ASP:CB	48:BP:48:PRO:CA	2.94	0.44
1:AA:1004:A:H5'	1:AA:1025:U:C4	2.52	0.44
40:DF:198:ALA:C	40:DF:201:VAL:HG12	2.38	0.44
40:DF:205:ARG:O	40:DF:206:ILE:HD13	2.18	0.44
31:D6:54:ILE:HD11	35:DA:2420:C:H5'	1.98	0.44
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.62	0.44
57:BY:86:ARG:CB	57:BY:88:LYS:HZ1	2.30	0.44
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.52	0.44
19:AS:35:SER:C	19:AS:37:ARG:H	2.19	0.44
19:AS:5:LEU:HD12	19:AS:8:GLY:C	2.36	0.44
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.43	0.44
38:DD:94:LEU:HD23	38:DD:95:LEU:N	2.32	0.44
35:DA:747:U:O2'	55:DW:88:ARG:HG3	2.17	0.44
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.82	0.44
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.65	0.44
31:B6:15:GLU:OE1	31:B6:41:PRO:HG3	2.18	0.44
28:B3:8:LEU:O	28:B3:31:LEU:HD22	2.17	0.44
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.16	0.44
47:DO:17:ARG:O	47:DO:18:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(H):G:H1	35:BA:271(P):C:N4	2.15	0.44
46:BN:15:LEU:C	46:BN:15:LEU:HD13	2.38	0.44
1:AA:781:A:C3'	1:AA:782:A:H5'	2.48	0.44
2:CB:238:LEU:O	2:CB:239:VAL:C	2.55	0.44
10:CJ:54:PHE:O	10:CJ:55:LYS:O	2.35	0.44
39:DE:36:ARG:CG	39:DE:36:ARG:NH1	2.77	0.44
35:BA:2319:G:C2	35:BA:2320:A:N1	2.85	0.44
35:DA:2292:C:O2'	35:DA:2293:C:H5'	2.17	0.44
51:DS:25:ARG:CG	51:DS:26:LEU:H	2.29	0.44
35:BA:2712:U:H2'	35:BA:2713:A:H5'	1.99	0.44
1:CA:80:G:C3'	1:CA:81:U:H5'	2.35	0.44
52:DT:23:ARG:HA	52:DT:52:ILE:HD11	2.00	0.44
35:DA:1019:U:N3	35:DA:1142(A):A:N6	2.66	0.44
35:BA:803:U:H2'	35:BA:804:A:C5'	2.48	0.44
1:AA:960:U:C6	1:AA:1225:A:C8	3.05	0.44
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.17	0.44
42:BH:46:GLU:CG	42:BH:51:ARG:HB2	2.46	0.44
38:DD:131:LEU:HD13	38:DD:136:ILE:HD11	1.99	0.44
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.16	0.44
38:DD:26:LYS:O	38:DD:27:THR:CG2	2.65	0.44
35:BA:795:C:H2'	35:BA:796:C:C6	2.53	0.44
35:BA:557:U:H2'	35:BA:558:G:H8	1.82	0.44
38:BD:145:VAL:HG12	38:BD:146:GLU:O	2.17	0.44
9:AI:104:ARG:O	9:AI:105:ASP:N	2.50	0.44
1:AA:608:A:C2'	1:AA:609:A:H5'	2.47	0.44
24:CY:517:LEU:HB3	24:CY:521:SER:CB	2.47	0.44
4:AD:163:GLU:C	4:AD:165:MET:H	2.21	0.44
50:BR:11:ASN:O	50:BR:12:ARG:CB	2.64	0.44
9:AI:73:GLN:O	9:AI:75:ASP:N	2.50	0.44
35:BA:915:C:H2'	35:BA:916:G:H8	1.83	0.44
35:DA:848:G:N9	35:DA:933:A:H8	2.15	0.44
1:AA:1132:C:N4	1:AA:1133:G:C6	2.85	0.44
38:BD:177:LEU:O	38:BD:179:SER:N	2.50	0.44
57:DY:47:LYS:HG3	57:DY:60:PHE:CE2	2.43	0.44
16:CP:49:LEU:CD2	16:CP:73:LEU:HD22	2.43	0.44
8:CH:17:THR:HG22	8:CH:63:LEU:HD12	1.99	0.44
42:DH:89:ILE:C	42:DH:89:ILE:HD12	2.38	0.44
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.17	0.44
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.18	0.44
58:BZ:153:SER:CB	58:BZ:163:LEU:HD13	2.47	0.44
13:CM:54:VAL:HG12	13:CM:58:GLU:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:86:GLU:OE2	42:DH:86:GLU:N	2.50	0.44
1:AA:59:A:H5''	1:AA:60:A:H5'	1.97	0.44
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.17	0.44
35:BA:21:A:O2'	35:BA:22:C:H5'	2.17	0.44
21:AU:2:GLY:C	21:AU:4:GLY:N	2.70	0.44
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.16	0.44
51:DS:58:LEU:CD1	51:DS:59:LYS:H	2.28	0.44
51:DS:59:LYS:HG2	51:DS:60:GLY:H	1.79	0.44
1:CA:658:G:C6	1:CA:749:C:N4	2.85	0.44
1:CA:714:G:H2'	1:CA:715:A:C8	2.51	0.44
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.17	0.44
35:BA:55:G:H1	35:BA:115:C:H42	1.65	0.44
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.16	0.44
35:BA:2203:U:H1'	38:BD:151:LYS:HE3	1.98	0.44
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.47	0.44
35:DA:216:A:H2'	35:DA:217:G:C8	2.53	0.44
35:BA:520:G:H2'	35:BA:521:G:H8	1.82	0.44
24:AY:262:SER:OG	24:AY:265:LYS:HG3	2.17	0.44
32:D7:33:ARG:HB2	32:D7:33:ARG:HH11	1.83	0.44
2:CB:8:LYS:O	2:CB:9:GLU:C	2.56	0.44
35:DA:1149:G:H2'	35:DA:1150:C:H6	1.83	0.44
35:DA:271(K):U:H3'	35:DA:271(L):U:C5'	2.47	0.44
1:AA:260:G:O2'	1:AA:261:U:H5'	2.17	0.44
7:CG:108:ALA:O	7:CG:111:ARG:HB2	2.17	0.44
5:CE:139:LEU:O	5:CE:141:GLN:N	2.50	0.44
1:AA:909:A:H2'	1:AA:910:C:O4'	2.17	0.44
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	2.32	0.44
35:DA:329:G:H4'	35:DA:330:A:OP2	2.17	0.44
35:DA:1755:A:P	52:DT:113:LYS:NZ	2.90	0.44
17:AQ:9:VAL:CG1	17:AQ:56:VAL:HG22	2.47	0.44
35:BA:1530:C:H2'	35:BA:1531:C:H6	1.83	0.44
46:DN:104:LYS:HB2	46:DN:117:PHE:CE1	2.52	0.44
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.16	0.44
22:AV:32:C:C4	22:AV:33:U:C5	3.05	0.44
5:AE:29:GLY:HA2	5:AE:46:GLY:O	2.17	0.44
35:BA:777:A:H2'	35:BA:778:G:H8	1.82	0.44
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.53	0.44
41:BG:107:LEU:HA	41:BG:111:LEU:HD12	1.98	0.44
10:AJ:32:ALA:CB	10:AJ:78:ASN:HD21	2.31	0.44
4:CD:18:LYS:O	4:CD:19:LEU:HD12	2.17	0.44
24:CY:602:LEU:N	24:CY:602:LEU:HD23	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:25:PRO:CB	40:BF:119:ARG:HB2	2.46	0.44
35:DA:534:U:O2'	53:DU:49:HIS:CD2	2.71	0.44
53:DU:83:LEU:HG	53:DU:88:ILE:HD11	1.99	0.44
54:DV:4:ILE:HG22	54:DV:4:ILE:O	2.18	0.44
53:BU:96:ALA:C	53:BU:98:LEU:H	2.20	0.44
31:B6:11:LEU:HD13	31:B6:11:LEU:C	2.37	0.44
31:B6:51:GLU:HG2	31:B6:52:VAL:N	2.32	0.44
35:BA:833:U:O2	48:BP:55:ARG:NH1	2.49	0.44
35:DA:322:A:P	40:DF:169:ASN:HD22	2.40	0.44
35:BA:272(I):U:H5	35:BA:363(A):A:C2	2.35	0.44
58:BZ:167:PRO:O	58:BZ:168:GLU:CB	2.66	0.44
35:DA:1899:G:N2	35:DA:1902:C:C5	2.85	0.44
22:AV:20:U:H3'	22:AV:21:A:C5'	2.39	0.44
30:D5:7:PRO:HG2	35:DA:2016:U:O2	2.17	0.44
5:CE:144:THR:C	5:CE:146:ALA:N	2.71	0.44
2:CB:165:VAL:CG2	2:CB:166:ASP:H	2.15	0.44
38:BD:44:ASN:N	38:BD:44:ASN:OD1	2.49	0.44
38:DD:259:THR:O	38:DD:260:ARG:O	2.36	0.44
44:DK:77:LEU:HD13	44:DK:110:GLN:OE1	2.17	0.44
46:BN:128:HIS:HE1	46:BN:134:ARG:NH1	2.15	0.44
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.32	0.44
39:DE:51:PHE:HD1	39:DE:52:LEU:N	2.15	0.44
39:BE:32:PRO:CA	39:BE:90:THR:HG23	2.46	0.44
29:D4:22:ILE:HG22	29:D4:24:THR:HG23	1.99	0.44
29:D4:31:ILE:HG23	29:D4:33:VAL:HG23	1.99	0.44
2:AB:17:PHE:O	2:AB:18:GLY:C	2.55	0.44
1:CA:960:U:C6	1:CA:1225:A:C8	3.05	0.44
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.51	0.44
35:BA:187:G:N3	35:BA:1365:A:H2	2.15	0.44
36:DB:118:G:C2	36:DB:119:G:N7	2.86	0.44
42:BH:85:LYS:CD	42:BH:85:LYS:C	2.80	0.44
50:DR:9:LYS:C	50:DR:10:LEU:HG	2.37	0.44
18:AR:59:SER:H	18:AR:62:GLU:CB	2.26	0.44
15:CO:25:THR:O	15:CO:26:GLU:C	2.55	0.44
39:BE:177:PRO:O	39:BE:178:GLU:C	2.56	0.44
58:BZ:79:ARG:O	58:BZ:79:ARG:CG	2.65	0.44
35:DA:1948:G:C5'	35:DA:1948:G:C8	2.99	0.44
38:DD:91:ARG:O	38:DD:107:ALA:HB3	2.17	0.44
9:CI:125:TYR:HD2	9:CI:126:SER:H	1.66	0.44
38:BD:92:ILE:CD1	38:BD:92:ILE:H	2.29	0.44
56:BX:64:LYS:NZ	56:BX:73:ARG:NH2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1654:A:O2'	39:BE:113:PHE:O	2.35	0.44
58:BZ:42:VAL:CG1	58:BZ:43:GLU:H	2.23	0.44
12:AL:27:LEU:C	12:AL:29:GLY:H	2.20	0.44
51:BS:47:THR:CG2	51:BS:49:VAL:O	2.65	0.44
53:DU:72:HIS:HE1	53:DU:107:ALA:HB2	1.81	0.44
22:AV:36:U:H1'	24:AY:502:GLY:HA2	1.99	0.44
3:AC:131:ARG:HH22	3:AC:168:ALA:HB2	1.83	0.44
35:BA:558:G:C5'	46:BN:112:LEU:HD22	2.46	0.44
24:AY:363:ARG:CG	24:AY:363:ARG:HH11	2.25	0.44
35:DA:2656:U:C4	35:DA:2665:A:H2	2.35	0.44
4:AD:163:GLU:C	4:AD:165:MET:N	2.70	0.44
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.18	0.44
12:CL:86:ARG:NH2	12:CL:99:HIS:CG	2.85	0.44
55:DW:18:ARG:HG2	55:DW:18:ARG:HH11	1.81	0.44
58:BZ:101:PRO:HG2	58:BZ:136:PHE:HA	2.00	0.44
56:DX:41:ASN:C	56:DX:43:VAL:N	2.67	0.44
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.18	0.44
12:CL:47:LYS:NZ	12:CL:47:LYS:HB3	2.32	0.44
38:DD:77:ALA:HA	38:DD:97:TYR:HA	1.99	0.44
8:CH:119:LEU:HB3	8:CH:123:GLU:HB3	2.00	0.44
22:AV:68:C:H2'	22:AV:69:C:H6	1.81	0.44
3:AC:140:ARG:HG3	3:AC:140:ARG:NH1	2.32	0.44
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.82	0.44
28:D3:4:LEU:HD23	28:D3:58:VAL:HA	1.99	0.44
1:CA:1244:C:O2'	1:CA:1245:A:H5'	2.17	0.44
35:BA:2406:U:C2	48:BP:72:PRO:HB2	2.52	0.44
42:DH:110:SER:O	42:DH:111:HIS:HB2	2.18	0.44
1:CA:865:A:H5'	1:CA:1078:U:C4	2.52	0.44
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.18	0.44
3:AC:10:PHE:CZ	3:AC:178:LEU:HD11	2.52	0.44
1:CA:992:U:O2'	1:CA:993:G:P	2.76	0.44
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.51	0.44
20:AT:61:SER:O	20:AT:63:ILE:N	2.50	0.44
35:BA:1077:A:O2'	35:BA:1078:U:H5'	2.16	0.44
38:DD:33:LEU:C	38:DD:33:LEU:HD23	2.38	0.44
35:DA:36:G:H4'	35:DA:451:C:C2	2.53	0.44
38:BD:31:LYS:O	38:BD:33:LEU:N	2.51	0.44
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.32	0.44
45:DL:76:UNK:C	45:DL:78:UNK:N	2.80	0.44
1:AA:329:A:H3'	1:AA:330:C:C5'	2.48	0.44
54:DV:88:ARG:O	54:DV:90:PRO:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.32	0.44
1:AA:417:C:H2'	1:AA:418:C:C6	2.53	0.44
1:AA:451:A:O4'	1:AA:452:A:C8	2.70	0.44
11:CK:29:ILE:HB	11:CK:44:SER:CB	2.47	0.44
36:DB:28:C:O2'	36:DB:29:A:H5'	2.17	0.44
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.17	0.44
24:CY:356:LEU:HD12	24:CY:365:GLU:HA	1.99	0.44
37:DC:69:LEU:O	37:DC:70:GLY:C	2.55	0.44
37:BC:156:GLU:OE1	37:BC:161:ARG:HD3	2.17	0.44
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.32	0.44
8:CH:40:ALA:HA	8:CH:45:ILE:HG13	1.98	0.44
1:AA:841:U:H3'	1:AA:848:C:C5'	2.47	0.44
35:BA:834:C:O2'	35:BA:835:A:H5'	2.18	0.44
47:DO:120:GLU:OE2	47:DO:122:LEU:HD21	2.17	0.44
2:CB:169:LYS:O	2:CB:169:LYS:HD3	2.18	0.44
56:DX:59:VAL:HG12	56:DX:59:VAL:O	2.17	0.44
7:CG:79:ARG:HD2	7:CG:79:ARG:O	2.17	0.44
58:DZ:5:LEU:HA	58:DZ:5:LEU:HD23	1.80	0.44
49:DQ:65:PHE:N	49:DQ:65:PHE:CD2	2.85	0.44
37:BC:69:LEU:O	37:BC:70:GLY:C	2.55	0.44
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.70	0.44
30:B5:19:ARG:HG3	35:BA:2046:G:H5''	2.00	0.44
24:AY:146:LEU:O	24:AY:147:TRP:C	2.56	0.44
23:CX:12:A:C3'	23:CX:12:A:N3	2.75	0.44
54:DV:40:LEU:N	54:DV:40:LEU:CD2	2.80	0.44
22:AW:58:A:C2'	22:AW:59:A:H5'	2.48	0.44
53:BU:91:ASP:O	53:BU:92:ARG:HB3	2.17	0.44
35:DA:1709:U:H3	35:DA:1749:A:H61	1.65	0.44
24:AY:489:LYS:HA	24:AY:490:PRO:HD3	1.88	0.44
35:DA:2131:G:C8	35:DA:2133:G:N3	2.86	0.44
33:B8:56:GLU:O	33:B8:58:ILE:N	2.50	0.44
31:B6:5:VAL:HB	35:BA:2284:C:P	2.57	0.44
58:DZ:12:GLY:CA	58:DZ:36:LYS:HZ3	2.29	0.44
1:AA:1003:G:N2	1:AA:1004:A:H1'	2.32	0.44
35:BA:2334:G:C2	51:BS:15:ARG:NH1	2.86	0.44
33:D8:56:GLU:O	33:D8:58:ILE:N	2.50	0.44
3:CC:82:GLU:N	3:CC:82:GLU:CD	2.70	0.44
41:DG:38:VAL:HG12	41:DG:93:THR:HA	2.00	0.44
37:DC:135:ARG:C	37:DC:137:LEU:H	2.20	0.44
31:B6:24:GLU:HG3	31:B6:37:ARG:HH21	1.81	0.44
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:110:THR:HG23	49:DQ:113:GLN:HG3	1.99	0.44
49:DQ:62:GLY:CA	58:DZ:116:VAL:HG21	2.45	0.44
26:D1:76:ARG:HH12	26:D1:95:LEU:CD2	2.15	0.44
28:B3:31:LEU:HD12	35:BA:1157:G:O2'	2.17	0.44
48:DP:31:ALA:C	48:DP:33:ARG:N	2.70	0.44
46:BN:16:ILE:O	46:BN:54:VAL:HA	2.18	0.44
1:AA:80:G:C3'	1:AA:81:U:H5'	2.35	0.44
44:BK:3:LYS:HE3	44:BK:29:GLN:HB3	1.99	0.44
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.53	0.44
38:DD:239:ARG:HG2	38:DD:239:ARG:HH21	1.82	0.44
39:DE:50:GLY:HA3	39:DE:74:PRO:HG3	1.99	0.44
39:BE:65:GLY:O	39:BE:67:PHE:N	2.51	0.44
35:DA:2319:G:C2	35:DA:2320:A:N1	2.85	0.44
50:DR:2:ARG:HB2	50:DR:5:LYS:HZ3	1.83	0.44
35:DA:2762:G:H2'	35:DA:2763:G:H5'	1.98	0.44
1:CA:1227:A:C2	13:CM:117:VAL:HG11	2.53	0.44
35:DA:979:G:N2	35:DA:985:C:N4	2.65	0.44
1:CA:149:A:N3	1:CA:149:A:H2'	2.32	0.44
24:CY:170:ARG:NH1	24:CY:205:TYR:OH	2.50	0.44
10:CJ:16:LEU:HD12	10:CJ:70:ARG:HD2	2.00	0.44
29:B4:14:ILE:HD13	29:B4:22:ILE:C	2.38	0.44
47:BO:104:ARG:HE	52:BT:33:LYS:CE	2.22	0.44
1:AA:1026:G:H3'	1:AA:1027:C:C5'	2.48	0.44
24:CY:583:LYS:HD3	24:CY:583:LYS:C	2.37	0.44
35:BA:1052:C:C6	35:BA:1052:C:H3'	2.51	0.44
37:BC:102:GLN:O	37:BC:105:LEU:N	2.50	0.44
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.33	0.44
49:DQ:35:VAL:CG2	49:DQ:36:ALA:N	2.81	0.44
24:AY:681:LYS:HD2	24:AY:681:LYS:C	2.38	0.44
24:AY:681:LYS:HA	24:AY:684:GLN:HB2	2.00	0.44
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.82	0.44
28:B3:44:ARG:O	28:B3:48:GLU:HG2	2.17	0.44
35:BA:1682:G:H5'	35:BA:1762:A:O2'	2.17	0.44
38:DD:77:ALA:O	38:DD:116:GLN:HG3	2.18	0.44
38:BD:53:PHE:HA	38:BD:218:ARG:HB2	1.99	0.44
37:BC:138:LEU:O	37:BC:139:PRO:C	2.55	0.44
36:BB:21:G:O2'	36:BB:22:U:P	2.76	0.44
42:BH:38:SER:HA	42:BH:39:PRO:HD3	1.84	0.44
1:CA:1305:G:H5''	21:CU:4:GLY:O	2.18	0.44
28:D3:35:ARG:HD3	28:D3:37:LEU:HD21	1.99	0.44
1:AA:657:G:O2'	1:AA:658:G:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:H4'	1:AA:173:U:H5	1.80	0.44
4:AD:121:VAL:CA	4:AD:126:ILE:HD13	2.48	0.44
1:CA:189:G:H2'	1:CA:189(A):C:H6	1.81	0.44
35:BA:1386:C:H5''	35:BA:1396:U:H5	1.81	0.44
35:DA:2557:G:H2'	35:DA:2558:C:C6	2.51	0.44
38:DD:73:VAL:O	38:DD:75:ILE:N	2.50	0.44
1:CA:1255:G:H2'	1:CA:1279:A:H62	1.81	0.44
1:CA:151:A:C2'	1:CA:152:A:H5'	2.48	0.44
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.82	0.44
13:AM:74:VAL:CA	13:AM:77:ASN:HD22	2.29	0.44
37:BC:65:LEU:HD21	37:BC:162:ILE:HD11	2.00	0.44
14:AN:44:LEU:C	14:AN:44:LEU:HD12	2.37	0.44
1:CA:414:A:O2'	1:CA:415:A:H5'	2.17	0.44
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.17	0.44
43:DJ:55:UNK:O	43:DJ:56:UNK:C	2.65	0.44
19:CS:72:GLY:C	19:CS:74:PHE:N	2.71	0.44
15:CO:64:ARG:HB2	15:CO:64:ARG:CZ	2.48	0.44
35:BA:425:G:H2'	35:BA:426:C:H6	1.82	0.44
52:BT:96:ARG:CZ	52:BT:96:ARG:HB3	2.47	0.44
35:BA:86:C:H4'	35:BA:104:U:O2	2.18	0.44
8:AH:30:ARG:HH11	8:AH:30:ARG:HB2	1.82	0.44
35:BA:641:C:H2'	35:BA:642:G:O4'	2.17	0.44
35:BA:1132:A:C4	35:BA:1133:U:C5	3.04	0.44
35:BA:1218:C:H2'	35:BA:1219:G:C8	2.52	0.44
1:AA:61:G:H2'	1:AA:62:U:O4'	2.16	0.44
37:BC:182:PRO:HB3	37:BC:184:GLU:OE2	2.17	0.44
1:CA:646:U:H2'	1:CA:647:C:C6	2.53	0.44
1:AA:399:G:H2'	1:AA:400:C:C6	2.52	0.44
44:BK:104:VAL:HG23	44:BK:127:ILE:CG2	2.48	0.44
38:DD:5:LYS:HD2	38:DD:17:THR:HG22	1.98	0.44
47:DO:14:THR:O	47:DO:14:THR:HG22	2.17	0.44
22:CW:57:C:OP1	22:CW:57:C:H6	2.00	0.44
41:BG:97:ASP:CB	41:BG:98:ARG:HH12	2.19	0.44
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.85	0.44
53:BU:115:ALA:C	53:BU:117:GLN:N	2.70	0.44
53:BU:92:ARG:HB3	54:BV:11:GLN:NE2	2.33	0.44
31:B6:5:VAL:CG2	35:BA:2283:C:OP1	2.65	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44
19:AS:58:VAL:O	19:AS:58:VAL:CG2	2.65	0.44
51:DS:12:PHE:C	51:DS:12:PHE:HD1	2.21	0.44
31:D6:11:LEU:CB	31:D6:26:ASN:HD21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:56:GLU:C	33:D8:58:ILE:N	2.71	0.44
35:DA:2288:A:C2	35:DA:2325:G:N7	2.86	0.44
41:DG:110:ALA:O	41:DG:111:LEU:C	2.55	0.44
41:DG:55:LYS:HD3	41:DG:55:LYS:C	2.36	0.44
41:DG:60:LEU:O	41:DG:64:THR:HG22	2.17	0.44
52:BT:28:VAL:O	52:BT:28:VAL:HG12	2.17	0.44
35:BA:1971:A:N3	38:BD:240:ALA:HA	2.33	0.44
37:DC:115:VAL:HG12	37:DC:145:THR:CG2	2.46	0.44
30:B5:44:THR:CG2	30:B5:45:VAL:H	2.22	0.44
35:DA:943:U:OP2	48:DP:38:GLN:OE1	2.36	0.44
35:DA:662:G:P	48:DP:18:ARG:HD2	2.57	0.44
35:BA:1408:C:H42	35:BA:1594:G:H1	1.66	0.44
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.38	0.44
35:BA:1820:U:C2	38:BD:202:LYS:HG2	2.53	0.44
24:AY:409:ILE:HD12	24:AY:654:GLY:HA2	1.97	0.44
44:DK:105:LEU:CD2	44:DK:120:LEU:HD13	2.47	0.44
35:DA:1782:C:H1'	35:DA:2609:U:C5'	2.38	0.44
33:D8:4:MET:O	33:D8:62:LEU:CD1	2.65	0.44
27:D2:69:ARG:HH22	35:DA:111:A:H4'	1.83	0.44
35:BA:637:A:OP1	48:BP:133:SER:CB	2.66	0.44
39:BE:51:PHE:HD1	39:BE:52:LEU:HD12	1.82	0.44
46:BN:57:ALA:O	46:BN:58:ASP:C	2.55	0.44
38:BD:70:TRP:HH2	38:BD:150:LYS:HA	1.76	0.44
52:DT:117:ASP:O	52:DT:118:ARG:C	2.56	0.44
50:BR:33:ARG:HG3	50:BR:115:GLU:HG3	2.00	0.44
3:AC:90:GLU:OE1	3:AC:93:LYS:HD2	2.17	0.44
35:DA:2722:G:O2'	50:DR:5:LYS:HB2	2.18	0.44
35:BA:191:A:O2'	35:BA:192:C:H5'	2.17	0.44
25:B0:60:PHE:HE2	35:BA:2365:G:C4'	2.27	0.44
5:AE:33:VAL:CG1	5:AE:34:VAL:N	2.80	0.44
44:DK:30:HIS:CA	44:DK:59:ILE:HD12	2.39	0.44
52:BT:57:PHE:CG	52:BT:58:ASN:N	2.82	0.44
13:CM:66:LEU:CD1	13:CM:66:LEU:N	2.72	0.44
24:AY:486:THR:HG22	24:AY:602:LEU:HG	1.99	0.44
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.67	0.44
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	2.18	0.44
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.47	0.44
24:CY:447:GLY:O	24:CY:449:THR:N	2.51	0.44
47:BO:104:ARG:NH2	52:BT:33:LYS:CE	2.80	0.44
27:B2:2:LYS:HE3	27:B2:52:ASP:OD1	2.18	0.44
35:DA:2779:U:H5'	35:DA:2780:G:O5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:125:TYR:CD2	9:AI:126:SER:N	2.85	0.44
35:DA:460:A:C2	35:DA:470:A:C4	3.05	0.44
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.17	0.44
46:DN:32:THR:HG23	46:DN:37:LYS:HB3	1.99	0.44
35:BA:892:G:O2'	35:BA:893:C:H5'	2.18	0.44
36:DB:9:G:C6	36:DB:113:G:C6	3.06	0.44
35:BA:841:A:H2'	35:BA:842:G:O4'	2.17	0.44
24:CY:71:THR:HB	24:CY:78:ARG:HH12	1.82	0.44
22:AV:54:5MU:C2'	22:AV:55:U:H5'	2.47	0.44
12:AL:86:ARG:HH22	12:AL:99:HIS:CD2	2.35	0.44
35:BA:914:C:C2'	35:BA:915:C:H5'	2.42	0.44
55:BW:47:VAL:O	55:BW:47:VAL:CG1	2.66	0.44
25:D0:26:TYR:CE2	35:DA:857:C:H1'	2.48	0.44
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.17	0.44
35:BA:2543:G:C2	35:BA:2765:A:H2'	2.52	0.44
12:AL:7:ILE:HG22	12:AL:8:ASN:N	2.32	0.44
35:BA:848:G:N9	35:BA:933:A:H8	2.15	0.44
22:CV:4:G:HO2'	22:CV:5:G:H8	1.63	0.44
20:CT:75:ASN:HD22	20:CT:75:ASN:H	1.65	0.44
37:BC:115:VAL:HA	37:BC:145:THR:CG2	2.46	0.44
24:CY:616:TYR:HB3	24:CY:662:LYS:O	2.17	0.44
24:AY:529:ILE:HD11	24:AY:567:LEU:CD1	2.48	0.44
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.53	0.44
39:DE:9:VAL:HG22	39:DE:10:GLY:H	1.81	0.44
35:BA:484:C:H2'	35:BA:485:C:C6	2.52	0.44
1:CA:1347:G:H2'	1:CA:1373:G:C6	2.52	0.44
35:BA:2550:G:C6	35:BA:2551:C:N4	2.86	0.44
23:CX:17:U:O2'	23:CX:18:G:H5'	2.18	0.44
35:BA:1213:A:N3	35:BA:1238:G:H1'	2.32	0.44
20:CT:42:GLN:CA	20:CT:42:GLN:NE2	2.78	0.44
37:BC:211:ARG:HG3	37:BC:211:ARG:NH1	2.32	0.44
35:BA:198:C:N4	35:BA:248:G:H1	2.14	0.44
24:CY:617:MET:HE3	24:CY:641:GLN:CB	2.48	0.44
57:DY:105:ALA:C	57:DY:107:ASP:N	2.71	0.44
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.85	0.44
1:CA:37:U:O2'	1:CA:500:G:H4'	2.17	0.44
15:AO:64:ARG:CZ	15:AO:64:ARG:HB2	2.47	0.44
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.79	0.44
1:AA:833:U:H2'	1:AA:834:C:H6	1.80	0.44
35:BA:205:G:O2'	35:BA:206:U:P	2.76	0.44
47:BO:52:VAL:C	47:BO:53:LYS:HG3	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:34:GLU:O	8:AH:35:ILE:C	2.54	0.44
2:AB:144:ARG:O	2:AB:145:LEU:C	2.56	0.44
1:AA:1430:C:H2'	1:AA:1431:C:C6	2.53	0.44
46:BN:119:ARG:NH1	46:BN:119:ARG:HG3	2.33	0.44
8:CH:35:ILE:HG23	8:CH:111:ILE:HD13	2.00	0.44
50:DR:48:VAL:HG12	50:DR:52:ILE:HG12	1.99	0.44
1:CA:1065:U:O2'	1:CA:1066:C:P	2.76	0.44
2:AB:213:LEU:HD23	2:AB:213:LEU:O	2.18	0.44
36:DB:29:A:OP2	51:DS:32:LEU:HG	2.18	0.44
21:AU:24:ARG:HG2	21:AU:24:ARG:HH11	1.82	0.44
35:BA:777:A:H2'	35:BA:778:G:C8	2.52	0.44
35:BA:1445(A):C:H5'	35:BA:1446:C:OP2	2.17	0.44
1:AA:197:A:H4'	1:AA:198:G:H5'	1.98	0.44
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.32	0.44
25:B0:34:GLY:O	25:B0:35:ASN:C	2.55	0.44
47:DO:37:ASP:O	47:DO:62:VAL:HG23	2.17	0.44
7:AG:21:VAL:HG23	7:AG:22:LEU:N	2.32	0.44
1:AA:421:U:H2'	1:AA:421:U:O2	2.17	0.44
56:BX:59:VAL:O	56:BX:59:VAL:HG12	2.16	0.44
29:B4:5:ILE:HD13	29:B4:6:HIS:CD2	2.53	0.44
4:CD:30:LYS:HB3	4:CD:35:ARG:HD2	1.99	0.44
35:DA:2577:A:C5'	35:DA:2578:G:C5'	2.96	0.44
39:DE:119:ARG:NH1	39:DE:156:MET:O	2.51	0.44
24:AY:227:ILE:O	24:AY:227:ILE:CG2	2.66	0.44
53:DU:112:ARG:HG2	53:DU:112:ARG:HH11	1.82	0.44
53:DU:55:ARG:HA	53:DU:58:ARG:CB	2.47	0.44
35:BA:997:G:OP1	53:BU:93:LYS:HD3	2.17	0.44
58:DZ:69:THR:HG22	58:DZ:90:VAL:CA	2.20	0.44
35:BA:301:G:HO2'	35:BA:302:C:H6	1.63	0.44
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.99	0.44
41:DG:153:ARG:HB3	41:DG:153:ARG:HH11	1.83	0.44
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	2.18	0.44
3:CC:43:LEU:O	3:CC:45:LYS:N	2.50	0.44
24:CY:230:LYS:NZ	24:CY:237:PRO:CA	2.76	0.44
27:D2:13:ALA:HA	27:D2:16:LEU:HD12	1.98	0.44
46:BN:43:THR:HG22	46:BN:45:ASN:ND2	2.33	0.44
26:B1:56:GLN:CA	26:B1:56:GLN:HE21	2.15	0.44
41:DG:37:VAL:CG2	41:DG:159:VAL:HA	2.48	0.44
52:DT:23:ARG:C	52:DT:25:GLY:H	2.13	0.44
24:AY:524:GLU:O	24:AY:565:VAL:N	2.32	0.44
54:BV:28:GLU:CB	54:BV:31:ALA:HB2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:9:LYS:NZ	5:CE:111:GLU:OE1	2.51	0.44
57:DY:10:GLY:C	57:DY:27:VAL:HG22	2.37	0.44
35:DA:2174:C:O2'	35:DA:2175:C:H5'	2.17	0.44
49:BQ:52:VAL:C	49:BQ:54:MET:N	2.71	0.44
5:AE:33:VAL:HG12	5:AE:112:LEU:HD12	2.00	0.44
36:BB:118:G:C2	36:BB:119:G:N7	2.86	0.44
1:AA:357:G:O2'	1:AA:358:U:H5'	2.17	0.44
35:DA:2778:A:C5'	35:DA:2779:U:OP1	2.59	0.44
1:AA:373:A:H2'	1:AA:374:A:H8	1.81	0.44
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.51	0.44
58:BZ:41:LEU:HD23	58:BZ:41:LEU:HA	1.73	0.44
58:DZ:144:LEU:HD22	58:DZ:144:LEU:N	2.33	0.44
24:AY:196:ILE:CG1	24:AY:197:ARG:N	2.78	0.44
39:DE:93:VAL:HG12	39:DE:175:VAL:CG2	2.47	0.44
1:CA:1371:G:C6	1:CA:1372:U:C4	3.06	0.44
35:BA:1185:C:C5'	35:BA:1186:G:P	3.06	0.44
50:DR:12:ARG:HD3	50:DR:16:HIS:CD2	2.53	0.44
42:BH:103:LEU:HB2	42:BH:123:PHE:CD2	2.53	0.44
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.16	0.44
36:DB:67:G:O2'	36:DB:68:C:H5'	2.18	0.44
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.52	0.44
57:DY:31:LEU:CD2	57:DY:31:LEU:N	2.78	0.44
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.84	0.44
11:CK:87:THR:O	11:CK:88:GLY:C	2.54	0.44
24:AY:539:ILE:CD1	24:AY:567:LEU:HD21	2.48	0.44
39:DE:25:VAL:HG22	39:DE:183:LEU:HG	2.00	0.44
21:CU:2:GLY:C	21:CU:4:GLY:H	2.21	0.44
1:AA:321:A:C2	1:AA:333:G:C2	3.06	0.44
1:AA:346:G:P	52:BT:41:ARG:NH2	2.90	0.44
1:AA:659:U:O2'	1:AA:660:G:H5'	2.18	0.44
1:AA:189:G:H2'	1:AA:189(A):C:H6	1.81	0.44
49:BQ:75:THR:HG22	49:BQ:76:LYS:H	1.82	0.44
1:CA:923:A:O4'	1:CA:1398:A:C2	2.70	0.44
50:BR:18:LEU:HD21	50:BR:22:ARG:CZ	2.48	0.44
1:CA:781:A:C3'	1:CA:782:A:H5'	2.48	0.44
1:CA:957:U:O2	1:CA:959:A:H8	2.01	0.44
22:CW:68:C:H2'	22:CW:69:C:C5	2.52	0.44
35:BA:214:G:H1'	35:BA:216:A:HO2'	1.81	0.44
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.53	0.44
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.82	0.44
8:CH:74:PRO:O	8:CH:75:ARG:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:81:ALA:HA	38:DD:113:VAL:HG22	1.99	0.44
35:DA:41:C:N4	35:DA:437:G:H1	2.15	0.44
25:D0:78:TYR:H	25:D0:78:TYR:HD1	1.65	0.44
38:BD:81:ALA:HA	38:BD:113:VAL:HG22	1.99	0.44
8:AH:35:ILE:HG23	8:AH:111:ILE:HD13	2.00	0.44
3:AC:111:LEU:CD2	3:AC:141:VAL:HG13	2.48	0.44
24:AY:297:GLU:HG3	24:AY:297:GLU:O	2.16	0.44
52:BT:113:LYS:C	52:BT:114:LEU:HD23	2.38	0.44
1:CA:930:C:O2'	1:CA:931:C:H5'	2.18	0.44
49:DQ:17:LEU:O	49:DQ:18:LYS:HD2	2.17	0.44
1:CA:1080:A:H5''	5:CE:16:THR:HG21	1.99	0.44
50:BR:92:GLY:HA2	50:BR:94:TYR:CE1	2.53	0.44
35:BA:1445(A):C:O2	35:BA:1445(A):C:H2'	2.16	0.44
35:DA:2352:A:H2'	35:DA:2353:G:H5'	2.00	0.44
35:DA:1011:G:O2'	35:DA:1013:C:H5''	2.17	0.44
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.99	0.44
1:AA:1327:C:OP2	21:AU:12:LYS:NZ	2.49	0.44
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.74	0.44
35:BA:527:C:O2	35:BA:527:C:O4'	2.35	0.44
1:CA:421:U:O2	1:CA:421:U:H2'	2.17	0.44
15:AO:18:PHE:CD1	15:AO:18:PHE:O	2.71	0.44
52:BT:49:VAL:O	52:BT:49:VAL:HG22	2.17	0.44
13:AM:46:LYS:HD3	13:AM:46:LYS:O	2.17	0.44
35:BA:63:U:H4'	35:BA:63:U:OP1	2.17	0.44
44:DK:104:VAL:HG23	44:DK:127:ILE:CG2	2.48	0.44
1:CA:1418:A:H3'	1:CA:1419:G:O4'	2.17	0.44
35:DA:2531:A:H4'	42:DH:157:TYR:CD2	2.53	0.44
42:BH:169:VAL:CG2	42:BH:170:ARG:N	2.78	0.44
40:DF:116:ASP:OD2	48:DP:5:ASP:HB2	2.18	0.44
40:DF:119:ARG:NH1	40:DF:119:ARG:HG2	2.32	0.44
29:B4:1:MET:SD	41:BG:98:ARG:HG3	2.58	0.44
1:CA:541:G:O2'	1:CA:542:G:H5'	2.17	0.44
40:BF:198:ALA:C	40:BF:201:VAL:HG12	2.38	0.44
24:AY:162:VAL:HG23	24:AY:255:ILE:HG13	1.99	0.44
58:DZ:120:ILE:O	58:DZ:120:ILE:HG22	2.17	0.44
58:DZ:99:TYR:HE2	58:DZ:125:LEU:HB2	1.82	0.44
34:D9:4:ARG:NH1	35:DA:2477:C:N4	2.66	0.44
53:BU:112:ARG:HG2	53:BU:112:ARG:HH11	1.83	0.44
58:DZ:48:PHE:CD1	58:DZ:52:SER:HA	2.53	0.44
58:DZ:29:TYR:O	58:DZ:90:VAL:HG23	2.18	0.44
35:DA:294:A:H2'	35:DA:295:G:H5'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:300:A:P	57:DY:97:ARG:HE	2.40	0.44
47:DO:61:VAL:O	47:DO:84:ALA:HA	2.17	0.44
48:DP:11:GLY:O	48:DP:12:ALA:O	2.36	0.44
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.33	0.44
3:AC:60:ALA:N	3:AC:63:ASN:OD1	2.51	0.44
35:DA:2032:G:OP2	35:DA:2454:G:O2'	2.30	0.44
48:DP:83:VAL:CG1	48:DP:114:ILE:HA	2.47	0.44
24:CY:644:ARG:O	24:CY:645:ALA:HB2	2.17	0.44
46:BN:60:ILE:HG22	46:BN:61:ARG:N	2.33	0.44
51:DS:89:ARG:CG	51:DS:92:TYR:CB	2.95	0.44
35:DA:2849:U:O4	52:DT:23:ARG:NH2	2.51	0.44
52:BT:116:ALA:HB1	52:BT:121:ILE:HD11	1.99	0.44
54:DV:31:ALA:C	54:DV:61:VAL:HG12	2.37	0.44
24:AY:369:LEU:N	24:AY:369:LEU:HD12	2.33	0.44
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.81	0.44
37:DC:148:PHE:C	37:DC:150:ILE:H	2.21	0.44
24:CY:489:LYS:HA	24:CY:490:PRO:HD3	1.71	0.44
35:DA:1331:A:O2'	35:DA:1332:G:H8	2.01	0.44
52:DT:1:MET:H1	52:DT:7:ILE:HD11	1.81	0.44
24:AY:486:THR:O	24:AY:599:PRO:HA	2.17	0.44
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HD3	1.99	0.44
18:AR:58:LEU:CD1	18:AR:58:LEU:N	2.80	0.44
52:BT:50:ILE:N	52:BT:50:ILE:CD1	2.80	0.44
38:DD:146:GLU:HG2	38:DD:152:GLY:O	2.18	0.44
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.83	0.44
58:BZ:141:VAL:HG13	58:BZ:144:LEU:HD23	1.99	0.44
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.17	0.44
9:CI:82:ALA:HA	9:CI:85:LEU:CD1	2.48	0.44
40:BF:132:VAL:O	40:BF:133:ASN:HB2	2.18	0.44
35:BA:863:A:O2'	36:BB:101:G:H1'	2.18	0.44
35:DA:2122:U:H4'	37:DC:167:ASP:HB3	2.00	0.44
1:CA:1118:C:OP1	9:CI:104:ARG:NH1	2.51	0.44
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.85	0.44
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.65	0.44
20:CT:104:LEU:HD23	20:CT:105:SER:O	2.17	0.44
49:DQ:24:GLY:CA	49:DQ:67:ARG:HH12	2.30	0.44
50:BR:21:TYR:OH	50:BR:43:GLU:HG2	2.16	0.44
1:AA:1296:C:H3'	1:AA:1297:C:H6	1.83	0.44
1:AA:1298:C:H5''	7:AG:114:ARG:NH2	2.31	0.44
35:BA:2656:U:C4	35:BA:2665:A:H2	2.35	0.44
18:CR:79:LEU:HD22	18:CR:80:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:519:ARG:CZ	24:AY:678:GLU:H	2.30	0.44
35:BA:1722:A:C2	35:BA:1740:G:C8	3.06	0.44
1:CA:271:C:H2'	1:CA:272:C:H6	1.82	0.44
35:DA:1381:G:N2	35:DA:1382:G:H1'	2.32	0.44
1:CA:356:A:H1'	1:CA:368:U:O2'	2.18	0.44
24:CY:327:PHE:HA	24:CY:376:ALA:HA	2.00	0.44
42:BH:94:TYR:CD2	42:BH:107:VAL:HG12	2.53	0.44
1:AA:1375:A:OP1	7:AG:12:LEU:HD21	2.18	0.44
37:DC:78:ILE:HG21	37:DC:124:VAL:CG2	2.47	0.44
35:DA:1343:G:N3	35:DA:1384:A:H2	2.16	0.44
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.48	0.44
49:BQ:137:TYR:CD1	49:BQ:137:TYR:N	2.85	0.44
13:AM:54:VAL:C	13:AM:56:LEU:N	2.71	0.44
51:BS:56:LEU:O	51:BS:58:LEU:N	2.51	0.44
35:DA:783:A:H2'	35:DA:784:A:O5'	2.18	0.44
1:CA:747:C:H2'	1:CA:748:C:C1'	2.48	0.44
53:DU:15:LYS:HA	53:DU:18:LEU:HD12	1.99	0.44
35:DA:483:A:C2	35:DA:484:C:H1'	2.52	0.44
35:DA:484:C:H2'	35:DA:485:C:C6	2.52	0.44
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.85	0.44
1:AA:40:C:H2'	1:AA:41:G:H8	1.82	0.44
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.53	0.44
24:CY:223:PHE:HB3	24:CY:248:LYS:HD3	1.98	0.44
1:AA:220:G:N2	1:AA:221:C:H1'	2.33	0.44
35:BA:1472:A:H2'	35:BA:1473:G:H8	1.81	0.44
35:DA:2681:C:H5	35:DA:2725:A:N6	2.14	0.44
13:AM:35:GLU:CG	13:AM:36:LYS:N	2.80	0.44
1:CA:10:A:H2'	1:CA:11:G:C8	2.52	0.44
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.47	0.44
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.33	0.44
58:BZ:9:TYR:CE1	58:BZ:35:ARG:NH1	2.79	0.44
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.32	0.44
1:CA:909:A:H2'	1:CA:910:C:O4'	2.18	0.44
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.52	0.44
1:AA:154:C:H2'	1:AA:155:C:C6	2.53	0.44
38:DD:165:ILE:HD13	38:DD:175:LEU:HD21	1.98	0.44
47:DO:119:PRO:O	47:DO:120:GLU:HB2	2.17	0.44
35:BA:1632:A:C5	35:BA:1633:G:C6	3.05	0.44
37:BC:16:ASP:O	37:BC:18:ASN:N	2.50	0.44
35:BA:1551:C:H2'	35:BA:1552:G:O4'	2.18	0.44
35:BA:930:U:H4'	35:BA:931:G:O5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:458:G:N2	35:DA:469:G:H2'	2.33	0.44
42:BH:141:VAL:O	42:BH:142:GLY:C	2.56	0.44
1:AA:994:A:H2'	1:AA:994:A:N3	2.32	0.44
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.18	0.44
35:BA:1034:G:H8	35:BA:1034:G:OP1	1.99	0.44
35:BA:2088:G:C6	35:BA:2089:U:C4	3.05	0.44
7:AG:57:GLU:O	7:AG:58:PRO:C	2.56	0.44
41:BG:46:ALA:HA	41:BG:51:ARG:HB3	1.99	0.44
41:BG:58:GLN:C	41:BG:60:LEU:H	2.20	0.44
24:CY:673:PHE:CE2	24:CY:674:ASP:O	2.71	0.44
24:CY:602:LEU:HB3	24:CY:676:TYR:HB3	1.99	0.44
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.53	0.44
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.53	0.44
10:CJ:37:PRO:CA	10:CJ:72:VAL:HG22	2.39	0.44
24:AY:204:GLU:O	24:AY:205:TYR:C	2.56	0.44
24:AY:230:LYS:NZ	24:AY:237:PRO:HA	2.33	0.44
24:AY:25:LYS:HZ1	24:AY:86:GLY:HA2	1.83	0.44
9:CI:4:TYR:CE1	9:CI:88:TYR:CD2	3.05	0.44
54:BV:40:LEU:N	54:BV:40:LEU:HD22	2.32	0.44
54:BV:47:VAL:O	54:BV:47:VAL:HG23	2.18	0.44
35:BA:1747(A):G:C2'	35:BA:1748:G:C5'	2.75	0.44
24:AY:422:GLU:C	24:AY:424:LEU:N	2.68	0.44
33:B8:56:GLU:C	33:B8:58:ILE:N	2.70	0.44
33:B8:59:LYS:HE3	33:B8:59:LYS:HB2	1.72	0.44
31:B6:54:ILE:HD11	35:BA:2420:C:H5'	1.99	0.44
19:CS:35:SER:C	19:CS:37:ARG:N	2.71	0.44
35:DA:84:A:H5''	57:DY:9:LYS:HZ3	1.79	0.44
57:DY:77:PRO:O	57:DY:99:CYS:SG	2.71	0.44
35:DA:272(I):U:H5	35:DA:363(A):A:C2	2.35	0.44
35:DA:2334:G:N3	51:DS:18:ILE:HD13	2.33	0.44
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.69	0.44
58:BZ:119:GLU:C	58:BZ:121:HIS:N	2.68	0.44
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.53	0.44
37:DC:138:LEU:O	37:DC:138:LEU:HD13	2.18	0.44
52:DT:27:THR:C	52:DT:28:VAL:HG23	2.37	0.44
31:D6:24:GLU:HG3	31:D6:37:ARG:HH21	1.83	0.44
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.18	0.44
49:DQ:54:MET:CG	49:DQ:64:ILE:HD13	2.40	0.44
58:DZ:180:VAL:HG12	58:DZ:181:GLU:N	2.33	0.44
58:DZ:179:ASP:OD1	58:DZ:181:GLU:N	2.51	0.44
35:BA:1799:G:N2	35:BA:1818:U:H2'	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2523:G:C3'	35:DA:2524:G:H5''	2.46	0.44
35:DA:1408:C:H42	35:DA:1594:G:H1	1.66	0.44
26:B1:82:LEU:C	26:B1:83:GLU:CG	2.86	0.44
35:DA:2307:G:H3'	35:DA:2308:G:C5'	2.47	0.44
1:AA:80:G:N1	1:AA:90:U:H5'	2.32	0.44
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.81	0.44
44:BK:106:GLU:HG3	44:BK:107:ILE:N	2.32	0.44
41:DG:133:LEU:C	41:DG:133:LEU:HD12	2.38	0.44
35:BA:2754:U:C2'	35:BA:2755:C:H5'	2.48	0.44
35:BA:2747:G:O2'	42:BH:67:LEU:HD12	2.17	0.44
35:DA:1495:A:N3	35:DA:1496:A:C2	2.85	0.44
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.79	0.44
13:AM:49:THR:C	13:AM:51:ALA:N	2.70	0.44
35:BA:143:G:H2'	35:BA:143(A):C:C6	2.53	0.44
35:BA:2884:U:H2'	35:BA:2885:C:H5'	2.00	0.44
54:DV:19:LYS:HZ3	54:DV:20:LEU:H	1.64	0.44
1:AA:1227:A:C2	13:AM:117:VAL:HG11	2.53	0.44
54:BV:19:LYS:HZ1	54:BV:20:LEU:H	1.66	0.44
9:CI:114:TYR:HD1	10:CJ:60:ARG:HG3	1.83	0.44
52:DT:29:ARG:CD	52:DT:86:ILE:HG22	2.48	0.44
1:CA:450:G:H1	1:CA:483:C:H42	1.65	0.44
39:DE:177:PRO:O	39:DE:178:GLU:C	2.56	0.44
26:B1:58:ILE:HD11	26:B1:91:LYS:HA	1.98	0.44
36:BB:89:G:N1	36:BB:90:A:C2	2.86	0.44
42:BH:83:TYR:HB3	42:BH:134:SER:CA	2.39	0.44
57:BY:46:LYS:H	57:BY:62:GLU:CB	2.20	0.44
10:AJ:63:PHE:N	10:AJ:63:PHE:CD2	2.82	0.44
35:DA:2088:G:C6	35:DA:2089:U:C4	3.06	0.44
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.83	0.44
38:DD:117:VAL:CG2	38:DD:118:VAL:N	2.81	0.44
1:CA:1122:U:O2'	1:CA:1123:A:H5'	2.17	0.44
40:DF:20:LEU:HD23	40:DF:21:ALA:H	1.83	0.44
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.49	0.44
35:DA:2148:G:O2'	35:DA:2149:G:H5'	2.18	0.44
35:DA:919:G:H5'	36:DB:81:G:H1'	2.00	0.44
35:DA:892:G:O2'	35:DA:893:C:H5'	2.17	0.44
24:CY:117:GLN:OE1	24:CY:120:THR:OG1	2.36	0.44
24:CY:125:ALA:C	24:CY:127:LYS:H	2.22	0.44
35:BA:1963:U:C2'	35:BA:1963:U:O2	2.59	0.44
34:B9:1:MET:SD	35:BA:2478:A:OP2	2.76	0.44
34:B9:29:ASN:N	34:B9:29:ASN:HD22	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:14:ILE:O	3:CC:15:THR:CB	2.66	0.44
1:CA:1351:U:H5'	7:CG:33:ASP:OD1	2.18	0.44
1:AA:103:C:H3'	1:AA:104:G:C8	2.43	0.44
9:CI:42:ARG:O	9:CI:44:VAL:N	2.50	0.44
35:BA:2140:C:H1'	35:BA:2152:G:N2	2.33	0.44
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.80	0.44
49:BQ:35:VAL:HG23	49:BQ:101:ARG:C	2.37	0.44
35:BA:1582:C:O2'	35:BA:1583:A:H5'	2.17	0.44
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.50	0.44
42:BH:106:THR:HG22	42:BH:112:PRO:HB3	2.00	0.44
11:CK:120:ARG:NH1	11:CK:126:ARG:NE	2.66	0.44
7:CG:120:ILE:O	7:CG:124:LEU:HD12	2.18	0.44
1:CA:472:A:H2'	1:CA:473:G:O4'	2.17	0.44
35:DA:2688:U:O2	35:DA:2688:U:H3'	2.17	0.44
35:DA:775:G:C4	35:DA:794:G:C8	3.05	0.44
35:DA:2328:A:H8	35:DA:2328:A:O5'	2.01	0.44
9:AI:55:ALA:HA	9:AI:58:HIS:HD2	1.82	0.44
35:BA:483:A:C2	35:BA:484:C:H1'	2.53	0.44
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	2.32	0.44
48:DP:89:ALA:O	48:DP:121:LYS:HD2	2.17	0.44
24:AY:388:THR:HG21	24:AY:399:LEU:HD13	2.00	0.44
35:DA:1213:A:N3	35:DA:1238:G:H1'	2.32	0.44
35:BA:265:A:N6	35:BA:428:A:H1'	2.33	0.44
42:BH:136:ILE:HG22	42:BH:136:ILE:O	2.18	0.44
42:BH:35:VAL:CG2	42:BH:75:ALA:HB2	2.48	0.44
35:BA:245:G:H5'	48:BP:73:GLY:HA2	2.00	0.44
41:DG:6:ALA:O	41:DG:10:LYS:HB2	2.17	0.44
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.53	0.44
25:D0:3:HIS:NE2	35:DA:2602:A:H2	2.16	0.44
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.18	0.44
7:CG:65:ALA:HA	7:CG:128:ALA:CA	2.47	0.44
25:B0:3:HIS:NE2	35:BA:2602:A:H2	2.16	0.44
35:DA:619:G:H3'	35:DA:620:G:N2	2.32	0.44
52:DT:26:ASP:OD2	52:DT:26:ASP:O	2.36	0.44
17:CQ:99:SER:O	17:CQ:100:LYS:HG3	2.18	0.44
24:CY:484:ARG:HA	24:CY:484:ARG:HD3	1.79	0.44
35:DA:338:G:H2'	35:DA:339:U:H6	1.82	0.44
24:AY:580:MET:SD	35:BA:1913:A:C6	3.11	0.44
35:BA:445:C:O2	35:BA:449:A:H2	2.00	0.44
7:AG:108:ALA:O	7:AG:111:ARG:HB2	2.18	0.44
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2696:U:H2'	35:BA:2697:G:C8	2.53	0.44
1:AA:1047:G:H5''	14:AN:4:LYS:HD3	2.00	0.44
35:DA:1680:U:O2'	35:DA:1681:G:H5'	2.18	0.44
40:DF:109:GLY:HA2	40:DF:112:MET:HB2	1.99	0.44
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.18	0.44
58:BZ:185:GLU:O	58:BZ:187:ALA:N	2.50	0.44
47:BO:37:ASP:O	47:BO:62:VAL:HG23	2.18	0.44
35:DA:972:G:OP2	35:DA:974:G:H5''	2.18	0.44
1:CA:342:C:C5	1:CA:343:U:C5	3.06	0.44
7:CG:129:GLU:OE2	7:CG:131:LYS:HE2	2.17	0.44
1:AA:785:G:C2'	1:AA:786:G:H5'	2.48	0.44
1:CA:106:C:C2'	1:CA:107:G:H5'	2.48	0.44
35:DA:602:G:N1	35:DA:654(U):A:N7	2.65	0.44
5:CE:26:PHE:N	5:CE:26:PHE:CD1	2.85	0.44
44:BK:88:ALA:O	44:BK:90:LYS:N	2.42	0.44
58:DZ:11:GLU:H	58:DZ:11:GLU:CD	2.21	0.44
36:DB:4:C:H2'	36:DB:5:C:C6	2.53	0.44
36:DB:58:A:H2'	36:DB:59:A:O4'	2.18	0.44
48:DP:7:ARG:CB	48:DP:8:PRO:CD	2.95	0.44
41:BG:107:LEU:HD23	41:BG:111:LEU:HD12	1.99	0.44
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.99	0.44
1:CA:408:A:OP1	4:CD:113:SER:OG	2.25	0.44
24:CY:519:ARG:NH1	24:CY:678:GLU:HB2	2.33	0.44
24:CY:461:ILE:HD11	61:CY:702:FUA:H21	2.00	0.44
24:AY:20:HIS:CD2	24:AY:117:GLN:HB3	2.53	0.44
58:DZ:171:ILE:CG1	58:DZ:172:ALA:N	2.81	0.44
54:BV:46:VAL:HG22	54:BV:47:VAL:N	2.28	0.44
54:BV:39:LEU:HD13	54:BV:51:VAL:HA	1.99	0.44
35:BA:1710:C:H2'	35:BA:1711:C:C6	2.53	0.44
35:BA:2131:G:C8	35:BA:2133:G:C2	3.06	0.44
1:AA:979:C:C2'	1:AA:980:C:H5''	2.44	0.44
35:BA:665:C:O2'	35:BA:666:G:H5'	2.16	0.44
1:CA:1316:G:O3'	14:CN:18:VAL:CG1	2.66	0.44
57:DY:9:LYS:O	57:DY:28:LYS:HE2	2.17	0.44
29:D4:7:PRO:O	29:D4:8:LYS:HB3	2.18	0.44
41:DG:86:MET:HG2	41:DG:86:MET:O	2.18	0.44
1:CA:1037:C:H2'	1:CA:1038:C:N1	2.32	0.44
3:CC:87:LEU:C	3:CC:89:GLU:N	2.70	0.44
24:CY:136:ALA:CB	24:CY:260:LEU:HB3	2.28	0.44
37:DC:76:LEU:HB3	37:DC:114:VAL:HA	2.00	0.44
8:CH:44:PHE:HE2	8:CH:109:ILE:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:78:PRO:HB2	49:BQ:81:VAL:HG11	2.00	0.44
2:CB:114:ARG:O	2:CB:117:GLU:HB2	2.17	0.44
41:BG:135:LEU:HD12	41:BG:135:LEU:N	2.31	0.44
48:DP:144:GLU:N	48:DP:145:PRO:HD3	2.33	0.44
48:BP:98:GLU:HA	48:BP:101:VAL:HG22	1.98	0.44
35:BA:2309:A:H2'	35:BA:2310:A:H5''	1.99	0.44
39:DE:68:ALA:C	39:DE:70:ALA:H	2.21	0.44
35:DA:1598:C:H2'	35:DA:1599:C:C6	2.53	0.44
39:BE:50:GLY:HA3	39:BE:74:PRO:HG3	2.00	0.44
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.17	0.44
52:DT:92:GLY:C	52:DT:94:ALA:N	2.70	0.44
50:BR:97:VAL:HG13	50:BR:114:VAL:CG2	2.48	0.44
3:AC:43:LEU:C	3:AC:45:LYS:H	2.21	0.44
22:CW:14:A:H3'	22:CW:15:G:C5'	2.47	0.44
1:AA:109:A:C6	1:AA:326:G:C6	3.05	0.44
1:AA:953:G:N7	13:AM:104:ARG:NH2	2.65	0.44
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.00	0.44
2:CB:223:ILE:C	2:CB:225:ALA:N	2.70	0.44
58:DZ:157:LEU:HD11	58:DZ:163:LEU:HD22	1.99	0.44
37:DC:88:GLU:N	37:DC:95:VAL:HG21	2.32	0.44
52:BT:13:ARG:NE	52:BT:13:ARG:HA	2.31	0.44
2:AB:21:ARG:O	2:AB:22:LYS:HB2	2.18	0.44
35:DA:2876:G:OP1	52:DT:2:ASN:O	2.36	0.44
52:DT:57:PHE:CG	52:DT:58:ASN:N	2.85	0.44
42:BH:83:TYR:HA	42:BH:135:GLY:O	2.18	0.44
46:BN:62:VAL:HG22	46:BN:66:LYS:CG	2.41	0.44
1:CA:769:G:O2'	1:CA:770:C:H5'	2.18	0.44
27:D2:57:ILE:H	27:D2:57:ILE:HG12	1.47	0.44
35:DA:795:C:H2'	35:DA:796:C:C6	2.52	0.44
25:B0:49:LYS:HG3	25:B0:80:HIS:ND1	2.32	0.44
5:AE:64:ARG:NH1	5:AE:64:ARG:CG	2.73	0.44
35:DA:2628:C:O2'	35:DA:2781:A:H2'	2.17	0.44
32:D7:48:LYS:NZ	35:DA:125:G:N2	2.66	0.44
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.44
4:CD:92:VAL:O	4:CD:95:GLY:N	2.51	0.44
39:DE:2:LYS:CD	39:DE:95:ILE:HG22	2.47	0.44
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.38	0.44
40:DF:20:LEU:HD13	40:DF:203:GLN:OE1	2.18	0.44
38:BD:145:VAL:HG22	38:BD:191:ALA:CB	2.39	0.44
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.44	0.44
1:CA:625:G:H4'	16:CP:16:HIS:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2147:G:H2'	35:DA:2148:G:C5'	2.48	0.44
37:DC:101:ILE:H	37:DC:101:ILE:CD1	2.28	0.44
35:BA:285:C:H2'	35:BA:286:C:C5'	2.48	0.44
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.18	0.44
37:DC:23:ILE:CB	37:DC:229:SER:OXT	2.62	0.44
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.17	0.44
35:BA:64:A:C5	56:BX:66:LEU:HD13	2.53	0.44
38:BD:176:ARG:CG	38:BD:176:ARG:NH1	2.77	0.44
28:B3:46:ASN:O	28:B3:47:VAL:C	2.54	0.44
1:CA:1132:C:N4	1:CA:1133:G:C6	2.86	0.44
44:DK:75:SER:C	44:DK:78:ILE:HG22	2.38	0.44
1:AA:1165:C:C4	1:AA:1166:G:N7	2.85	0.44
35:BA:465:G:H2'	35:BA:466:A:C8	2.53	0.44
54:BV:35:LEU:HB3	54:BV:37:VAL:HG23	1.99	0.44
3:CC:110:ASN:HD21	3:CC:140:ARG:HB3	1.83	0.44
42:BH:38:SER:C	42:BH:40:GLU:H	2.21	0.44
35:DA:1719:G:O2'	35:DA:1720:U:H5'	2.17	0.44
49:BQ:27:VAL:O	49:BQ:28:ALA:CB	2.66	0.44
14:CN:12:ARG:HB2	14:CN:12:ARG:NH1	2.33	0.44
42:DH:76:VAL:C	42:DH:78:GLY:H	2.21	0.44
9:AI:43:ALA:O	9:AI:45:ALA:N	2.51	0.44
35:DA:2653:U:O2'	42:DH:110:SER:CB	2.66	0.44
35:DA:21:A:O2'	35:DA:22:C:H5'	2.18	0.44
38:BD:39:LYS:HZ1	38:BD:87:ASN:HB3	1.82	0.44
35:DA:2550:G:C6	35:DA:2551:C:N4	2.86	0.44
53:BU:82:GLY:C	53:BU:84:LYS:N	2.71	0.44
35:DA:55:G:H1	35:DA:115:C:H42	1.65	0.44
1:AA:98:G:C2'	1:AA:99:U:H5'	2.48	0.44
1:CA:432:A:N7	1:CA:433:C:C4	2.86	0.44
1:AA:403:C:H2'	1:AA:404:U:H6	1.83	0.44
35:BA:200:U:C2'	35:BA:201:C:H5'	2.48	0.44
1:AA:17:U:H1'	1:AA:1080:A:N3	2.32	0.44
5:CE:155:GLU:N	8:CH:46:LYS:HG2	2.33	0.44
8:CH:114:THR:C	8:CH:116:LYS:H	2.21	0.44
35:DA:526:A:N6	35:DA:2626:C:H4'	2.32	0.44
1:CA:637:G:O2'	1:CA:638:G:H5'	2.17	0.44
1:CA:791:G:N2	1:CA:1497:G:O3'	2.49	0.44
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.52	0.44
35:DA:2193:G:H8	35:DA:2193:G:H5'	1.82	0.44
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.18	0.44
39:DE:201:THR:C	39:DE:202:LYS:HD2	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:316:G:C6	1:AA:338:A:C6	3.05	0.44
21:CU:8:THR:O	21:CU:9:ARG:C	2.55	0.44
35:BA:1488:G:H5'	35:BA:1489:U:OP2	2.17	0.44
42:BH:56:SER:HG	42:BH:61:HIS:CE1	2.31	0.44
35:DA:2341:G:H2'	35:DA:2342:C:C6	2.52	0.44
2:CB:229:VAL:HG12	2:CB:230:VAL:N	2.33	0.44
1:AA:644:G:C5	1:AA:645:C:C5	3.05	0.44
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.82	0.44
35:BA:2767:C:H2'	35:BA:2768:C:C6	2.52	0.44
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.44
11:AK:60:ALA:O	11:AK:61:ALA:C	2.57	0.44
35:BA:2880:C:N4	35:BA:2881:C:H41	2.15	0.44
35:BA:949:C:H2'	35:BA:950:G:H8	1.82	0.44
24:AY:686:LYS:HD3	24:AY:686:LYS:C	2.39	0.44
49:BQ:65:PHE:N	49:BQ:65:PHE:CD2	2.86	0.44
42:BH:130:ARG:NH1	42:BH:130:ARG:HB3	2.33	0.44
51:DS:48:LEU:N	51:DS:48:LEU:HD12	2.33	0.44
35:DA:2050:C:H1'	39:DE:156:MET:HE1	1.98	0.43
10:CJ:98:ILE:CG2	10:CJ:98:ILE:O	2.66	0.43
24:AY:219:VAL:C	24:AY:221:ALA:N	2.72	0.43
58:DZ:151:HIS:HB2	58:DZ:168:GLU:O	2.18	0.43
54:DV:39:LEU:HD12	54:DV:47:VAL:HG11	2.00	0.43
35:BA:2131:G:H8	35:BA:2158:A:H62	1.64	0.43
35:BA:2282:G:O2'	35:BA:2283:C:OP2	2.29	0.43
35:BA:2419:U:O2'	35:BA:2420:C:H5'	2.17	0.43
57:DY:96:ILE:HG21	57:DY:99:CYS:HB3	2.00	0.43
38:BD:34:VAL:O	38:BD:36:PRO:CD	2.67	0.43
31:D6:28:ARG:HB2	31:D6:29:ASN:H	1.63	0.43
31:D6:7:ILE:O	31:D6:7:ILE:HG22	2.18	0.43
33:D8:32:LEU:O	33:D8:33:ASN:O	2.36	0.43
10:CJ:30:SER:HA	10:CJ:80:LYS:CE	2.48	0.43
19:CS:57:HIS:O	19:CS:59:PRO:HD3	2.17	0.43
5:AE:142:LEU:O	5:AE:143:ARG:CD	2.66	0.43
30:D5:2:ALA:CA	35:DA:2015:A:C1'	2.86	0.43
24:CY:210:ARG:O	24:CY:213:HIS:N	2.51	0.43
37:DC:140:ASN:H	37:DC:145:THR:HB	1.83	0.43
9:AI:60:ASP:O	9:AI:61:ALA:O	2.36	0.43
35:DA:947:G:N3	35:DA:984:A:H2	2.16	0.43
35:DA:959:A:N1	35:DA:960:A:C2	2.86	0.43
35:DA:27:G:H1'	35:DA:513:A:N6	2.33	0.43
51:DS:28:VAL:HG13	51:DS:36:TYR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2439:A:C8	35:DA:2586:C:H4'	2.53	0.43
48:DP:81:GLN:HG2	48:DP:106:LEU:HA	2.00	0.43
42:DH:66:GLY:CA	42:DH:69:ARG:HB3	2.42	0.43
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.38	0.43
12:CL:70:ILE:HG23	12:CL:100:ILE:HD12	1.99	0.43
35:BA:2572:A:C8	39:BE:144:ARG:CB	3.01	0.43
1:CA:972:C:O2'	10:CJ:55:LYS:HB3	2.18	0.43
41:DG:121:ASN:OD1	41:DG:123:ASN:N	2.49	0.43
30:B5:55:ARG:HH22	50:BR:33:ARG:CG	2.29	0.43
1:CA:720:C:C3'	1:CA:721:G:H5''	2.37	0.43
13:AM:91:ARG:HD3	13:AM:97:PRO:O	2.18	0.43
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.17	0.43
52:BT:30:VAL:HG21	52:BT:83:ILE:CG1	2.48	0.43
36:DB:86:G:H2'	36:DB:87:G:H8	1.79	0.43
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.61	0.43
25:D0:19:LYS:CD	25:D0:41:ARG:HH22	2.28	0.43
15:CO:74:ASP:C	15:CO:76:GLU:N	2.70	0.43
35:BA:1993:U:C5'	39:BE:128:SER:HB3	2.48	0.43
39:DE:14:ILE:HD11	39:DE:173:VAL:HG11	1.99	0.43
52:BT:32:TYR:HB3	52:BT:81:PRO:HB2	1.98	0.43
3:CC:129:ALA:C	3:CC:131:ARG:N	2.70	0.43
35:BA:1541:G:H5''	35:BA:1542:A:OP1	2.18	0.43
35:BA:458:G:N2	35:BA:469:G:H2'	2.32	0.43
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	2.00	0.43
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.19	0.43
1:AA:1115:C:H1'	14:AN:61:TRP:O	2.18	0.43
22:CV:35:A:C2'	22:CV:36:U:H5'	2.48	0.43
58:BZ:72:ARG:HD3	58:BZ:72:ARG:HA	1.78	0.43
36:DB:96:U:H2'	36:DB:97:G:H8	1.84	0.43
35:DA:2443:C:O2	35:DA:2443:C:C2'	2.65	0.43
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.45	0.43
35:DA:1185:C:C5'	35:DA:1186:G:P	3.06	0.43
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.33	0.43
8:AH:17:THR:CG2	8:AH:63:LEU:HD12	2.48	0.43
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD13	1.99	0.43
1:CA:1165:C:C4	1:CA:1166:G:N7	2.86	0.43
35:DA:856:C:H2'	35:DA:857:C:C6	2.53	0.43
40:DF:89:VAL:CG1	40:DF:90:PHE:H	2.26	0.43
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.99	0.43
7:CG:80:VAL:CG2	7:CG:81:GLY:N	2.80	0.43
35:BA:848:G:H5''	35:BA:928:G:N2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:15:G:H2'	35:BA:16:G:H8	1.83	0.43
15:AO:9:GLN:O	15:AO:11:VAL:N	2.51	0.43
55:DW:70:TYR:HB3	55:DW:110:LYS:NZ	2.33	0.43
27:B2:9:GLN:O	27:B2:13:ALA:N	2.45	0.43
37:BC:138:LEU:HD13	37:BC:138:LEU:O	2.17	0.43
1:CA:1202:G:O2'	1:CA:1203:C:H5'	2.17	0.43
14:CN:42:ILE:HA	14:CN:42:ILE:HD13	1.66	0.43
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.48	0.43
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.18	0.43
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.17	0.43
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.47	0.43
35:BA:268:C:O2	35:BA:268:C:H2'	2.17	0.43
35:DA:708:C:H42	35:DA:723:G:H1	1.66	0.43
4:AD:134:ASP:N	4:AD:134:ASP:OD2	2.49	0.43
38:DD:8:PRO:C	38:DD:10:THR:H	2.20	0.43
4:CD:173:TRP:CB	4:CD:187:ARG:NH1	2.81	0.43
1:CA:954:G:H2'	1:CA:955:U:H6	1.79	0.43
35:BA:1843:C:H2'	35:BA:1844:C:C6	2.53	0.43
37:BC:223:VAL:HG12	37:BC:225:ILE:HG23	2.00	0.43
57:DY:103:GLY:O	57:DY:105:ALA:N	2.51	0.43
24:AY:635:GLU:CD	24:AY:635:GLU:N	2.71	0.43
35:BA:2219:G:O5'	35:BA:2219:G:H8	2.01	0.43
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.17	0.43
1:CA:833:U:H2'	1:CA:834:C:H6	1.81	0.43
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.82	0.43
35:DA:2337:G:H2'	35:DA:2338:G:C8	2.53	0.43
7:AG:84:ASN:ND2	7:AG:84:ASN:N	2.65	0.43
25:D0:23:VAL:HA	25:D0:38:VAL:HG13	2.00	0.43
35:BA:153:C:H2'	35:BA:154:G:C8	2.53	0.43
14:AN:24:CYS:SG	14:AN:25:VAL:N	2.91	0.43
1:AA:829:G:O2'	1:AA:830:G:H5'	2.18	0.43
35:BA:1805:U:H2'	35:BA:1806:C:C6	2.52	0.43
24:CY:613:PRO:HG2	24:CY:666:ARG:HH21	1.82	0.43
35:DA:1488:G:H5'	35:DA:1489:U:OP2	2.18	0.43
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.99	0.43
35:BA:1801:G:H3'	35:BA:1802:A:H5'	2.00	0.43
35:BA:269:U:H2'	35:BA:270:A:H8	1.82	0.43
35:DA:1801:G:H3'	35:DA:1802:A:H5'	1.98	0.43
35:BA:2154:G:H2'	35:BA:2155:G:C8	2.53	0.43
47:DO:88:ASN:C	47:DO:90:GLN:H	2.22	0.43
45:DL:26:UNK:C	45:DL:28:UNK:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:66:LEU:HD23	11:CK:66:LEU:HA	1.81	0.43
12:AL:91:LYS:HB2	12:AL:91:LYS:HE2	1.69	0.43
35:BA:37:C:H2'	35:BA:37:C:O2	2.17	0.43
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.74	0.43
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.82	0.43
35:BA:152:G:H1	35:BA:174:C:H42	1.66	0.43
35:BA:706:A:H2'	35:BA:707:G:O4'	2.18	0.43
35:DA:1204:A:H2	35:DA:1241:A:N1	2.16	0.43
40:DF:101:LEU:O	40:DF:106:ARG:NH1	2.50	0.43
40:DF:24:LEU:CB	40:DF:25:PRO:HD2	2.38	0.43
24:AY:614:GLU:HA	24:AY:617:MET:CB	2.47	0.43
29:B4:1:MET:HG2	41:BG:98:ARG:CD	2.48	0.43
41:BG:107:LEU:HD23	41:BG:111:LEU:HD11	2.00	0.43
41:BG:170:ARG:HE	41:BG:180:PHE:HD1	1.65	0.43
24:CY:455:GLY:O	24:CY:456:GLU:C	2.55	0.43
24:CY:84:THR:CG2	61:CY:702:FUA:H152	2.48	0.43
40:BF:206:ILE:CG2	40:BF:207:GLY:N	2.81	0.43
24:AY:87:HIS:NE2	24:AY:120:THR:HG21	2.32	0.43
53:DU:115:ALA:C	53:DU:117:GLN:H	2.20	0.43
53:DU:59:ARG:CG	53:DU:59:ARG:NH1	2.81	0.43
53:DU:88:ILE:O	53:DU:90:VAL:N	2.50	0.43
56:DX:12:VAL:CG2	56:DX:13:LEU:N	2.54	0.43
31:B6:29:ASN:CG	31:B6:30:THR:N	2.70	0.43
33:B8:58:ILE:CG2	48:BP:49:ARG:HD3	2.48	0.43
35:BA:272(H):C:C6	35:BA:272(H):C:H5'	2.34	0.43
35:BA:1485:G:H5'	35:BA:1485:G:H8	1.82	0.43
48:DP:58:THR:O	48:DP:61:ARG:HG3	2.17	0.43
10:CJ:30:SER:O	10:CJ:81:THR:HG23	2.18	0.43
5:AE:76:ILE:HG22	5:AE:118:ILE:HD13	1.99	0.43
26:D1:47:GLN:OE1	35:DA:2091:U:H1'	2.18	0.43
24:CY:140:ASP:OD1	24:CY:262:SER:HB2	2.17	0.43
51:BS:98:VAL:HG12	51:BS:100:ALA:CB	2.47	0.43
31:D6:17:LYS:O	31:D6:18:ARG:O	2.37	0.43
35:DA:2287:A:H2	35:DA:2346:A:C2	2.36	0.43
46:DN:135:PRO:O	46:DN:136:GLU:C	2.56	0.43
58:DZ:175:VAL:HB	58:DZ:176:PRO:CD	2.48	0.43
18:AR:36:ASN:OD1	18:AR:39:VAL:HB	2.18	0.43
53:DU:12:ARG:O	53:DU:13:LYS:C	2.56	0.43
1:CA:1103:C:H5''	2:CB:98:LEU:HD13	1.99	0.43
33:D8:5:LYS:HG2	35:DA:242:G:C8	2.53	0.43
26:B1:89:GLU:O	26:B1:93:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:113:LYS:HA	48:DP:129:ALA:O	2.19	0.43
48:BP:106:LEU:N	48:BP:106:LEU:HD12	2.33	0.43
2:CB:17:PHE:O	2:CB:18:GLY:C	2.56	0.43
26:D1:24:ALA:HB3	26:D1:27:GLU:OE2	2.18	0.43
19:AS:19:VAL:HG12	19:AS:20:LEU:N	2.33	0.43
35:BA:2723:C:C5'	50:BR:2:ARG:HH11	2.21	0.43
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.33	0.43
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.33	0.43
1:CA:1055:A:C6	1:CA:1206:G:C5	3.06	0.43
3:AC:80:GLY:CA	3:AC:82:GLU:OE1	2.66	0.43
54:BV:17:GLY:O	54:BV:18:LEU:HB3	2.17	0.43
2:AB:223:ILE:C	2:AB:225:ALA:N	2.70	0.43
35:BA:2836:U:C4	35:BA:2883:A:N6	2.86	0.43
35:DA:1325:G:OP2	35:DA:1616:A:H2'	2.18	0.43
52:BT:53:ARG:O	52:BT:59:THR:HB	2.18	0.43
52:DT:8:LYS:C	52:DT:10:VAL:N	2.72	0.43
52:DT:8:LYS:O	52:DT:10:VAL:N	2.50	0.43
1:AA:149:A:H2'	1:AA:149:A:N3	2.33	0.43
52:DT:108:ARG:CG	52:DT:109:GLU:N	2.73	0.43
24:AY:152:THR:HA	24:AY:155:GLU:HB3	1.99	0.43
25:B0:70:GLN:NE2	25:B0:80:HIS:NE2	2.66	0.43
35:DA:2779:U:H1'	35:DA:2781:A:C6	2.52	0.43
9:AI:79:LEU:O	9:AI:82:ALA:N	2.52	0.43
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.81	0.43
4:AD:96:LEU:O	4:AD:97:LEU:C	2.56	0.43
35:DA:2466:C:C2'	35:DA:2467:C:H5'	2.48	0.43
24:CY:573:HIS:CD2	24:CY:576:ASP:H	2.34	0.43
1:CA:1308:U:C5	13:CM:99:ARG:NH1	2.86	0.43
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.82	0.43
35:DA:572:A:H2'	35:DA:573:G:O4'	2.18	0.43
1:CA:1202:G:H1'	14:CN:29:ARG:HD3	2.00	0.43
3:AC:109:PRO:CD	3:AC:110:ASN:H	2.31	0.43
3:CC:136:GLN:O	3:CC:138:VAL:N	2.51	0.43
35:BA:2688:U:H1'	35:BA:2721:A:H61	1.82	0.43
53:BU:15:LYS:HA	53:BU:18:LEU:HD12	2.00	0.43
1:CA:1347:G:C2'	1:CA:1348:U:OP2	2.66	0.43
30:D5:19:ARG:HG3	35:DA:2046:G:H5''	1.99	0.43
39:BE:26:ILE:HG13	39:BE:182:LEU:HB3	2.00	0.43
42:DH:37:VAL:HG12	42:DH:38:SER:H	1.83	0.43
35:BA:1328:G:H2'	35:BA:1330:C:C5	2.54	0.43
57:DY:49:VAL:HG12	57:DY:50:ARG:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1362:C:H2'	35:BA:1363:C:C6	2.53	0.43
33:D8:42:ARG:C	33:D8:44:LYS:H	2.19	0.43
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.18	0.43
3:CC:10:PHE:CZ	3:CC:178:LEU:HD11	2.52	0.43
43:DJ:9:UNK:O	43:DJ:10:UNK:C	2.67	0.43
35:DA:1663:C:HO2'	35:DA:1664:A:C5'	2.31	0.43
55:DW:41:LYS:C	55:DW:43:GLY:H	2.21	0.43
16:CP:75:ARG:HH11	16:CP:75:ARG:HG3	1.83	0.43
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.43
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.33	0.43
58:BZ:129:SER:O	58:BZ:131:ARG:N	2.51	0.43
5:CE:152:ARG:HB3	8:CH:43:GLY:HA3	2.00	0.43
26:D1:52:ARG:HD3	26:D1:52:ARG:HA	1.76	0.43
1:CA:452:A:H5'	16:CP:72:ARG:NH2	2.33	0.43
50:BR:48:VAL:HG12	50:BR:52:ILE:HG12	2.01	0.43
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.37	0.43
35:BA:1487:G:N3	35:BA:1487:G:H2'	2.34	0.43
35:DA:1680:U:O2	35:DA:1763:G:H3'	2.18	0.43
35:DA:1932:A:H2'	35:DA:1933:G:O4'	2.18	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CD1	2.53	0.43
35:DA:1805:U:H2'	35:DA:1806:C:H6	1.82	0.43
52:DT:93:ARG:HA	52:DT:93:ARG:HD2	1.78	0.43
42:BH:173:PRO:O	42:BH:174:GLY:C	2.57	0.43
41:BG:63:ILE:C	41:BG:63:ILE:CD1	2.86	0.43
1:CA:1409:C:O2'	1:CA:1410:G:H5'	2.18	0.43
1:AA:407:G:H2'	1:AA:408:A:C8	2.53	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.71	0.43
24:AY:207:ASP:O	24:AY:208:GLN:C	2.56	0.43
24:AY:238:THR:C	24:AY:240:GLU:H	2.20	0.43
54:BV:4:ILE:HA	54:BV:12:TYR:O	2.17	0.43
33:B8:32:LEU:CD2	33:B8:32:LEU:H	2.31	0.43
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.83	0.43
58:DZ:9:TYR:CB	58:DZ:35:ARG:HH22	2.32	0.43
35:BA:336:C:H4'	57:BY:7:VAL:CG2	2.46	0.43
33:D8:53:PRO:HG2	33:D8:54:GLU:N	2.33	0.43
29:D4:7:PRO:O	29:D4:8:LYS:HD2	2.18	0.43
1:AA:946:A:N6	1:AA:1236:A:N6	2.67	0.43
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.52	0.43
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.31	0.43
39:DE:38:THR:C	39:DE:40:GLU:H	2.21	0.43
1:CA:703:G:O2'	1:CA:704:A:P	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2309:A:H2'	35:DA:2310:A:H5''	2.00	0.43
35:BA:2439:A:C8	35:BA:2586:C:H4'	2.54	0.43
48:DP:106:LEU:O	48:DP:107:LYS:HG2	2.18	0.43
48:DP:112:LEU:HD22	48:DP:113:LYS:N	2.32	0.43
20:AT:18:GLN:O	20:AT:19:SER:C	2.56	0.43
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.66	0.43
39:DE:65:GLY:O	39:DE:67:PHE:N	2.52	0.43
39:DE:76:ARG:O	39:DE:77:ILE:C	2.57	0.43
35:BA:1493:C:H4'	35:BA:1494:A:OP2	2.18	0.43
35:BA:2849:U:O4	52:BT:23:ARG:NH2	2.51	0.43
52:BT:120:ARG:O	52:BT:124:ASP:OD1	2.36	0.43
54:DV:19:LYS:HG3	54:DV:20:LEU:N	2.32	0.43
20:AT:26:ASN:HD22	20:AT:26:ASN:N	2.14	0.43
35:BA:2069:G:C2'	35:BA:2070:G:H5'	2.48	0.43
24:AY:355:LEU:HD12	24:AY:369:LEU:CD1	2.34	0.43
29:D4:50:VAL:O	29:D4:51:ASP:CB	2.65	0.43
6:AF:43:LEU:CD1	6:AF:43:LEU:H	2.18	0.43
39:BE:12:THR:O	39:BE:23:VAL:N	2.44	0.43
41:DG:77:ILE:HG21	41:DG:80:PHE:CB	2.40	0.43
52:BT:57:PHE:CD2	52:BT:58:ASN:N	2.83	0.43
25:D0:40:GLN:HE22	25:D0:43:THR:C	2.22	0.43
52:DT:12:SER:O	52:DT:15:VAL:HG13	2.18	0.43
27:D2:47:ASN:O	27:D2:48:HIS:C	2.55	0.43
25:B0:49:LYS:HE3	25:B0:80:HIS:CG	2.53	0.43
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.65	0.43
53:DU:31:SER:O	53:DU:33:ARG:N	2.51	0.43
39:BE:113:PHE:CE2	39:BE:158:GLY:CA	3.01	0.43
1:CA:1026:G:H3'	1:CA:1027:C:C5'	2.48	0.43
11:AK:33:THR:HG22	11:AK:39:PRO:CA	2.43	0.43
35:DA:2464:C:O2'	35:DA:2465:C:H6	2.01	0.43
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.30	0.43
1:AA:1299:A:C2	1:AA:1301:U:N3	2.86	0.43
20:AT:50:GLU:HB2	20:AT:100:ILE:HB	1.99	0.43
1:CA:1518:A:C2	1:CA:1519:A:C2	3.06	0.43
35:BA:653:A:H5'	35:BA:654:A:P	2.58	0.43
53:DU:25:TRP:CD1	53:DU:26:GLY:N	2.86	0.43
56:DX:71:GLY:C	56:DX:72:LYS:HG3	2.38	0.43
35:BA:586:A:C2	35:BA:1254:A:C2	3.06	0.43
12:CL:7:ILE:HG22	12:CL:8:ASN:N	2.34	0.43
24:AY:605:ILE:HD13	24:AY:677:GLN:HG2	2.00	0.43
49:BQ:37:LEU:HD12	49:BQ:128:LYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:233:SER:HB2	2:AB:234:PRO:HD3	1.98	0.43
1:CA:36:C:H4'	12:CL:122:THR:O	2.18	0.43
35:BA:959:A:N1	35:BA:960:A:C2	2.86	0.43
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.77	0.43
1:AA:1291:G:H2'	1:AA:1292:U:C6	2.54	0.43
58:BZ:20:ARG:CB	58:BZ:20:ARG:NH1	2.82	0.43
58:BZ:20:ARG:NH1	58:BZ:20:ARG:HB2	2.34	0.43
22:CW:52:C:H2'	22:CW:53:G:O4'	2.18	0.43
42:DH:38:SER:C	42:DH:40:GLU:H	2.22	0.43
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.39	0.43
35:DA:2749:A:C6	35:DA:2750:A:N6	2.87	0.43
29:D4:39:CYS:SG	29:D4:42:PHE:CE2	3.10	0.43
30:D5:29:THR:HG21	35:DA:2814:C:O2'	2.18	0.43
35:BA:216:A:H2'	35:BA:217:G:C8	2.54	0.43
57:BY:66:PRO:O	57:BY:67:LEU:HB3	2.19	0.43
43:DJ:35:UNK:C	43:DJ:37:UNK:N	2.80	0.43
35:DA:2116:G:N7	35:DA:2117:A:C4	2.86	0.43
43:DJ:74:UNK:C	43:DJ:76:UNK:N	2.81	0.43
1:CA:759:A:C2'	1:CA:760:G:H5'	2.48	0.43
13:AM:94:ARG:CZ	19:AS:82:GLY:N	2.81	0.43
35:BA:444:C:H2'	35:BA:445:C:C6	2.54	0.43
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.82	0.43
26:D1:69:LYS:HE2	26:D1:72:GLU:OE1	2.19	0.43
3:CC:54:ARG:NH1	3:CC:54:ARG:HG2	2.33	0.43
50:DR:94:TYR:CD1	50:DR:94:TYR:N	2.86	0.43
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.19	0.43
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.34	0.43
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.19	0.43
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.17	0.43
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.18	0.43
35:DA:1763:G:H2'	35:DA:1764:G:H5'	2.00	0.43
7:AG:47:CYS:HB3	7:AG:58:PRO:CB	2.48	0.43
22:CW:54:G:O2'	22:CW:55:5MU:H5''	2.18	0.43
13:CM:72:ALA:O	13:CM:73:GLU:C	2.54	0.43
22:AV:11:A:O2'	22:AV:12:G:H5'	2.18	0.43
1:CA:802:A:H3'	1:CA:803:G:H8	1.83	0.43
35:DA:1925:C:O2'	35:DA:1926:U:H5'	2.18	0.43
26:B1:75:GLU:OE1	26:B1:75:GLU:HA	2.19	0.43
28:B3:50:VAL:O	28:B3:53:LEU:N	2.42	0.43
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.82	0.43
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:611:C:H2'	35:BA:612:C:H6	1.83	0.43
40:BF:110:LEU:HD13	40:BF:202:PHE:HE1	1.82	0.43
40:BF:121:GLY:C	40:BF:123:LEU:H	2.22	0.43
1:CA:1129:C:O2'	1:CA:1130:A:O5'	2.36	0.43
40:BF:116:ASP:OD1	40:BF:119:ARG:NH2	2.47	0.43
33:B8:56:GLU:C	33:B8:58:ILE:H	2.22	0.43
35:BA:2393:A:H5'	48:BP:60:MET:O	2.17	0.43
58:DZ:61:LEU:HB2	58:DZ:65:GLN:HB2	2.00	0.43
57:DY:84:ARG:HD2	57:DY:97:ARG:HD2	2.01	0.43
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.33	0.43
57:BY:12:THR:HA	57:BY:25:GLY:O	2.19	0.43
41:DG:64:THR:HG23	41:DG:65:GLY:N	2.33	0.43
58:BZ:171:ILE:HG13	58:BZ:172:ALA:H	1.81	0.43
35:DA:1902:C:H4'	38:DD:244:ARG:CB	2.46	0.43
19:AS:10:PHE:CE2	19:AS:37:ARG:O	2.72	0.43
19:AS:37:ARG:H	19:AS:37:ARG:HG3	1.38	0.43
35:BA:1899:G:N2	35:BA:1902:C:C5	2.86	0.43
3:CC:90:GLU:OE1	3:CC:93:LYS:HD2	2.18	0.43
1:CA:1237:C:H2'	1:CA:1336:C:C5	2.53	0.43
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	0.43
35:BA:2286:A:H8	35:BA:2287:A:C6	2.37	0.43
51:BS:78:LEU:HD11	51:BS:103:GLU:HB3	2.00	0.43
35:DA:661:C:O2'	48:DP:16:ARG:O	2.32	0.43
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.48	0.43
18:AR:37:VAL:O	18:AR:41:LYS:N	2.40	0.43
35:BA:812:C:H1'	35:BA:1250:G:N2	2.32	0.43
25:B0:15:ASP:OD2	25:B0:16:SER:N	2.50	0.43
51:DS:36:TYR:HD1	51:DS:36:TYR:N	2.14	0.43
35:DA:1782:C:C2'	35:DA:1783:A:H5'	2.47	0.43
48:DP:25:SER:O	48:DP:30:THR:CG2	2.65	0.43
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.48	0.43
26:B1:86:SER:O	26:B1:87:PRO:C	2.56	0.43
48:DP:107:LYS:O	48:DP:109:GLY:N	2.51	0.43
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.83	0.43
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.83	0.43
35:DA:1819:A:O2'	35:DA:1820:U:P	2.76	0.43
29:D4:2:LYS:HG2	36:DB:44:G:P	2.58	0.43
42:BH:66:GLY:CA	42:BH:69:ARG:HB3	2.43	0.43
24:AY:513:LYS:N	24:AY:566:THR:O	2.51	0.43
1:AA:393:A:H5'	1:AA:483:C:O2'	2.18	0.43
52:BT:23:ARG:HA	52:BT:52:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:89:VAL:C	52:BT:91:ARG:H	2.21	0.43
54:DV:17:GLY:O	54:DV:18:LEU:HB3	2.18	0.43
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	2.00	0.43
2:AB:24:TRP:CH2	2:AB:26:PRO:HA	2.52	0.43
5:AE:51:VAL:O	5:AE:52:PRO:C	2.57	0.43
19:CS:29:ARG:HD2	19:CS:29:ARG:N	2.32	0.43
35:BA:2740:A:C6	35:BA:2741:A:C6	3.06	0.43
52:DT:29:ARG:O	52:DT:30:VAL:O	2.36	0.43
58:BZ:179:ASP:CB	58:BZ:182:LYS:HD2	2.44	0.43
18:CR:58:LEU:CD1	18:CR:58:LEU:N	2.81	0.43
57:DY:61:ILE:CG1	57:DY:62:GLU:N	2.80	0.43
40:DF:68:LYS:HG3	40:DF:69:HIS:CD2	2.54	0.43
38:DD:270:ILE:N	38:DD:270:ILE:HD12	2.34	0.43
49:DQ:137:TYR:N	49:DQ:137:TYR:CD1	2.84	0.43
25:D0:12:ASN:C	25:D0:14:ARG:H	2.21	0.43
35:BA:9:U:O4	35:BA:2629:A:N7	2.51	0.43
58:BZ:108:PRO:HA	58:BZ:142:SER:HA	2.00	0.43
50:BR:9:LYS:C	50:BR:10:LEU:HG	2.39	0.43
1:AA:1277:C:C3'	1:AA:1277:C:C6	3.00	0.43
19:CS:9:VAL:CG2	29:D4:53:GLU:OE2	2.66	0.43
35:BA:2489:G:C6	35:BA:2490:G:C6	3.06	0.43
12:AL:105:TYR:N	12:AL:105:TYR:CD2	2.85	0.43
34:D9:34:GLN:O	34:D9:35:ARG:CB	2.66	0.43
35:BA:460:A:H2'	35:BA:461:C:O4'	2.18	0.43
35:DA:1115:G:H5'	35:DA:1115:G:C8	2.49	0.43
35:BA:886:C:H2'	35:BA:887:A:O4'	2.19	0.43
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.49	0.43
35:DA:2140:C:H1'	35:DA:2152:G:N2	2.34	0.43
4:CD:58:LEU:HD23	4:CD:62:GLN:HG2	2.00	0.43
1:CA:1171:G:H2'	1:CA:1172:C:C6	2.52	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.83	0.43
10:CJ:22:LYS:NZ	10:CJ:88:LEU:HD23	2.33	0.43
38:BD:77:ALA:HA	38:BD:97:TYR:HA	2.00	0.43
27:B2:13:ALA:HA	27:B2:16:LEU:HD12	1.99	0.43
7:AG:120:ILE:O	7:AG:124:LEU:HD12	2.18	0.43
35:DA:1342:A:C2	35:DA:1345:C:C5	3.07	0.43
24:CY:415:PRO:HG3	24:CY:421:GLN:HG2	2.01	0.43
35:BA:606:U:C2'	35:BA:606:U:O2	2.62	0.43
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	2.00	0.43
1:AA:345:C:H5'	1:AA:346:G:OP2	2.19	0.43
35:DA:492:A:H2'	35:DA:493:G:C5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2405:G:HO2'	35:BA:2406:U:P	2.41	0.43
35:DA:625:G:H5'	35:DA:657:U:OP1	2.19	0.43
1:CA:659:U:O2'	1:CA:660:G:H5'	2.18	0.43
4:CD:134:ASP:OD2	4:CD:134:ASP:N	2.51	0.43
1:CA:773:G:C2'	1:CA:774:G:H5'	2.48	0.43
27:B2:28:LYS:HB3	27:B2:57:ILE:CD1	2.48	0.43
35:DA:268:C:H2'	35:DA:268:C:O2	2.17	0.43
38:BD:28:GLU:OE1	38:BD:29:PRO:HD2	2.18	0.43
35:BA:118:A:OP2	35:BA:119:A:H2'	2.18	0.43
1:CA:1423:G:H5'	47:DO:49:ARG:HH22	1.82	0.43
8:CH:6:ILE:O	8:CH:9:MET:N	2.51	0.43
35:BA:216:A:H2'	35:BA:217:G:H8	1.82	0.43
1:AA:221:C:H2'	1:AA:221:C:O2	2.18	0.43
35:DA:2219:G:C2'	35:DA:2220:G:H5'	2.49	0.43
35:BA:2376:A:O2'	51:BS:108:GLY:HA2	2.17	0.43
32:D7:34:ARG:HH12	32:D7:39:ARG:CD	2.32	0.43
45:BL:81:UNK:O	45:BL:82:UNK:O	2.37	0.43
11:CK:79:SER:CB	11:CK:106:LYS:HD2	2.48	0.43
35:BA:619:G:H3'	35:BA:620:G:H21	1.82	0.43
35:BA:1416:G:N3	35:BA:1417:C:C4	2.87	0.43
13:CM:36:LYS:HG3	13:CM:59:TYR:OH	2.19	0.43
1:AA:1008:C:H6	1:AA:1008:C:O5'	2.00	0.43
45:DL:76:UNK:O	45:DL:80:UNK:N	2.51	0.43
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.18	0.43
35:BA:338:G:H2'	35:BA:339:U:H6	1.83	0.43
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.19	0.43
34:D9:11:CYS:SG	34:D9:11:CYS:O	2.76	0.43
16:AP:9:PHE:CE2	16:AP:18:ARG:NE	2.86	0.43
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.34	0.43
39:BE:188:VAL:O	39:BE:189:PRO:O	2.36	0.43
35:DA:1161:C:H2'	35:DA:1162:G:C8	2.54	0.43
46:DN:119:ARG:HG3	46:DN:119:ARG:NH1	2.33	0.43
2:CB:144:ARG:O	2:CB:145:LEU:C	2.57	0.43
5:AE:139:LEU:O	5:AE:141:GLN:N	2.51	0.43
1:AA:1494:G:H2'	1:AA:1494:G:N3	2.33	0.43
35:DA:2704:C:O2'	35:DA:2705:A:H5'	2.19	0.43
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.83	0.43
35:DA:2081:C:H2'	35:DA:2082:A:C8	2.54	0.43
1:CA:32:A:C2	1:CA:33:A:C4	3.06	0.43
26:B1:52:ARG:O	26:B1:53:VAL:HB	2.18	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:53:VAL:HB	8:AH:58:TYR:CD1	2.53	0.43
35:DA:1319:G:C2	35:DA:1334:G:C6	3.06	0.43
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.53	0.43
47:BO:119:PRO:O	47:BO:120:GLU:HB2	2.18	0.43
1:AA:106:C:C2'	1:AA:107:G:H5'	2.48	0.43
7:CG:85:TYR:CD1	7:CG:154:TYR:HE1	2.36	0.43
42:DH:154:PRO:HB2	42:DH:155:SER:H	1.59	0.43
40:DF:187:VAL:CG1	48:DP:7:ARG:HH22	2.31	0.43
35:DA:1326:U:H4'	35:DA:2011:U:O4'	2.19	0.43
40:BF:192:LEU:CD2	40:BF:192:LEU:C	2.87	0.43
24:AY:165:GLN:HA	24:AY:178:ILE:O	2.19	0.43
24:AY:170:ARG:HD2	24:AY:170:ARG:H	1.84	0.43
56:BX:10:ALA:O	56:BX:28:PHE:CB	2.64	0.43
56:DX:10:ALA:O	56:DX:28:PHE:CB	2.66	0.43
41:DG:139:LEU:C	41:DG:141:PHE:H	2.22	0.43
41:DG:141:PHE:CB	41:DG:144:ILE:HG22	2.46	0.43
41:DG:45:GLU:OE2	41:DG:45:GLU:CA	2.65	0.43
10:CJ:78:ASN:C	10:CJ:79:ARG:NH1	2.71	0.43
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.49	0.43
50:DR:63:ARG:O	50:DR:67:LEU:HD23	2.19	0.43
30:D5:4:HIS:CB	30:D5:5:PRO:CD	2.92	0.43
47:DO:87:ILE:HG22	47:DO:92:GLU:C	2.38	0.43
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.56	0.43
51:BS:74:ALA:HB2	51:BS:101:LEU:HD22	2.00	0.43
31:D6:15:GLU:OE1	31:D6:41:PRO:HG3	2.19	0.43
35:BA:1452:A:H3'	35:BA:1453:U:H5'	1.91	0.43
5:CE:72:GLN:NE2	5:CE:144:THR:HG22	2.32	0.43
8:CH:104:ARG:O	8:CH:107:LEU:N	2.51	0.43
49:DQ:56:ARG:CA	49:DQ:56:ARG:NE	2.77	0.43
47:BO:61:VAL:O	47:BO:84:ALA:HA	2.17	0.43
27:D2:14:ARG:HG3	27:D2:14:ARG:NH1	2.33	0.43
24:AY:409:ILE:HG12	24:AY:656:ALA:CB	2.49	0.43
39:BE:38:THR:OG1	39:BE:41:LYS:HE2	2.18	0.43
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.15	0.43
35:BA:2308:G:N7	35:BA:2310:A:C5'	2.70	0.43
3:CC:79:ARG:HB2	3:CC:79:ARG:NH1	2.14	0.43
39:BE:108:SER:O	39:BE:109:LYS:C	2.55	0.43
39:BE:111:ARG:CZ	50:BR:2:ARG:NH2	2.81	0.43
39:DE:36:ARG:NH1	39:DE:85:ASN:OD1	2.49	0.43
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	2.01	0.43
35:BA:1144:G:C6	35:BA:1145:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:163:ALA:HB1	41:DG:168:GLU:HB2	1.99	0.43
35:BA:2296:U:C4'	35:BA:2297:C:OP1	2.54	0.43
51:DS:101:LEU:C	51:DS:101:LEU:CD1	2.87	0.43
35:BA:677:A:O2'	35:BA:678:C:H5'	2.19	0.43
13:AM:91:ARG:NH2	19:AS:81:ARG:NH2	2.66	0.43
6:AF:67:MET:CE	6:AF:75:LEU:HD22	2.48	0.43
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.18	0.43
39:BE:21:VAL:HG23	39:BE:21:VAL:O	2.19	0.43
52:BT:8:LYS:C	52:BT:10:VAL:N	2.71	0.43
52:DT:11:GLU:C	52:DT:13:ARG:N	2.70	0.43
24:AY:485:GLU:HB2	24:AY:560:VAL:HA	1.99	0.43
42:DH:35:VAL:CG2	42:DH:75:ALA:HB2	2.49	0.43
41:DG:76:SER:HB3	41:DG:83:ARG:HB3	1.98	0.43
35:BA:1675:C:H2'	35:BA:1676:A:O4'	2.19	0.43
27:D2:48:HIS:O	27:D2:50:ILE:N	2.51	0.43
35:DA:1314:C:OP1	35:DA:1315:C:OP2	2.36	0.43
35:BA:1314:C:H5'	35:BA:1314:C:C6	2.37	0.43
3:CC:129:ALA:O	3:CC:131:ARG:N	2.52	0.43
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.19	0.43
10:CJ:63:PHE:HB2	14:CN:57:ARG:O	2.19	0.43
39:BE:1:MET:O	39:BE:2:LYS:C	2.56	0.43
1:CA:182:U:O2	1:CA:182:U:H2'	2.18	0.43
50:DR:41:ALA:C	50:DR:43:GLU:N	2.70	0.43
35:BA:558:G:P	46:BN:111:PRO:HD2	2.57	0.43
1:CA:1115:C:H1'	14:CN:61:TRP:O	2.18	0.43
35:BA:294:A:H2'	35:BA:295:G:H5'	1.99	0.43
38:BD:127:VAL:HG22	38:BD:194:GLY:HA3	2.01	0.43
1:AA:1202:G:H1'	14:AN:29:ARG:HD3	2.01	0.43
50:BR:12:ARG:HD3	50:BR:16:HIS:CD2	2.53	0.43
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.50	0.43
32:D7:27:GLY:HA2	32:D7:30:VAL:CG2	2.49	0.43
20:CT:49:ALA:HB3	20:CT:99:LEU:CD1	2.48	0.43
55:BW:44:ALA:O	55:BW:45:TYR:C	2.57	0.43
24:AY:601:ILE:O	24:AY:679:VAL:HG13	2.19	0.43
28:B3:19:GLN:O	28:B3:22:ALA:N	2.43	0.43
4:CD:159:ARG:O	4:CD:162:LEU:N	2.52	0.43
35:BA:476:G:H4'	35:BA:502:A:N1	2.33	0.43
29:B4:30:GLU:C	29:B4:31:ILE:HD12	2.38	0.43
24:AY:519:ARG:HD3	24:AY:677:GLN:HA	2.01	0.43
36:BB:82:G:C2	36:BB:83:G:C8	3.07	0.43
36:BB:106:G:O2'	36:BB:107:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:62:THR:O	27:D2:65:ASN:HB2	2.18	0.43
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.19	0.43
11:CK:126:ARG:O	11:CK:127:LYS:C	2.56	0.43
35:DA:1638:C:O2'	35:DA:1639:U:H5'	2.18	0.43
54:BV:5:VAL:HG22	54:BV:6:LYS:N	2.34	0.43
39:DE:27:LEU:HD12	39:DE:181:LEU:HD13	1.99	0.43
16:CP:6:LEU:HG	16:CP:17:TYR:HB3	2.01	0.43
35:BA:1565:C:C2	35:BA:1567:A:C8	3.06	0.43
54:DV:5:VAL:HG22	54:DV:6:LYS:N	2.33	0.43
1:CA:1443:G:C6	1:CA:1460:A:C2	3.06	0.43
49:BQ:132:VAL:HB	49:BQ:137:TYR:OH	2.18	0.43
18:AR:87:ARG:CZ	18:AR:87:ARG:HB3	2.48	0.43
14:AN:12:ARG:NH1	14:AN:12:ARG:HB2	2.34	0.43
1:AA:748:C:O2'	1:AA:749:C:O5'	2.36	0.43
1:CA:1347:G:H2'	1:CA:1373:G:O6	2.18	0.43
1:CA:1375:A:OP1	7:CG:12:LEU:HD21	2.18	0.43
35:BA:2749:A:C6	35:BA:2750:A:N6	2.86	0.43
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.53	0.43
35:DA:2552:U:H2'	35:DA:2554:U:H5''	2.00	0.43
38:DD:73:VAL:C	38:DD:75:ILE:H	2.22	0.43
58:BZ:50:GLN:O	58:BZ:51:ALA:C	2.57	0.43
35:DA:1416:G:N3	35:DA:1417:C:C4	2.87	0.43
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.83	0.43
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.82	0.43
24:AY:187:THR:OG1	24:AY:188:TYR:N	2.52	0.43
35:DA:1614:A:H62	55:DW:93:ALA:HB2	1.83	0.43
6:CF:53:ALA:C	6:CF:55:ASP:H	2.21	0.43
1:CA:977:A:N3	1:CA:977:A:H3'	2.34	0.43
27:B2:14:ARG:NH1	27:B2:14:ARG:HG3	2.33	0.43
38:BD:213:ARG:HD2	38:BD:213:ARG:HA	1.74	0.43
1:AA:64:G:N2	1:AA:67:C:C4	2.86	0.43
26:D1:4:VAL:HG23	26:D1:9:GLY:O	2.19	0.43
1:CA:502:G:OP1	12:CL:118:SER:N	2.39	0.43
38:DD:45:ASN:HB2	38:DD:46:GLN:OE1	2.18	0.43
1:CA:142:G:N3	1:CA:196:A:H2	2.17	0.43
1:CA:757:U:H2'	1:CA:758:G:O4'	2.19	0.43
1:AA:757:U:O2'	1:AA:879:C:H1'	2.18	0.43
1:CA:115:G:H1'	1:CA:116:A:N7	2.33	0.43
8:CH:30:ARG:HH11	8:CH:30:ARG:HB2	1.82	0.43
22:AV:14:A:H1'	22:AV:22:G:N2	2.33	0.43
1:CA:34:C:H1'	12:CL:32:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:86:LYS:HA	4:AD:86:LYS:HD3	1.82	0.43
35:BA:1575:C:O2	35:BA:1575:C:H2'	2.17	0.43
1:CA:596:C:H6	1:CA:596:C:O5'	2.02	0.43
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.56	0.43
37:BC:46:ALA:HA	37:BC:212:SER:O	2.18	0.43
40:DF:29:ASN:O	40:DF:30:PRO:C	2.56	0.43
41:BG:149:VAL:O	41:BG:149:VAL:HG13	2.19	0.43
24:CY:630:GLN:HE22	24:CY:646:PHE:HB2	1.84	0.43
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.59	0.43
24:CY:85:PRO:HA	24:CY:94:VAL:HG22	2.00	0.43
53:DU:91:ASP:O	53:DU:92:ARG:HB3	2.19	0.43
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	2.01	0.43
24:AY:487:ILE:CD1	24:AY:487:ILE:N	2.81	0.43
58:DZ:39:VAL:O	58:DZ:39:VAL:HG23	2.19	0.43
41:DG:55:LYS:HD3	41:DG:56:ALA:CA	2.47	0.43
41:DG:67:LYS:HD3	41:DG:68:PRO:O	2.19	0.43
10:CJ:3:LYS:HZ3	10:CJ:77:PRO:HD2	1.82	0.43
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.30	0.43
1:AA:1316:G:O3'	14:AN:18:VAL:CG1	2.66	0.43
5:AE:119:LEU:N	5:AE:119:LEU:HD23	2.34	0.43
35:BA:2287:A:N6	35:BA:2344:U:C2	2.86	0.43
48:DP:12:ALA:CB	48:DP:16:ARG:HB3	2.49	0.43
35:DA:2400:G:N2	35:DA:2417:C:C2	2.87	0.43
40:BF:8:GLN:HG2	40:BF:126:VAL:HG12	2.01	0.43
28:D3:31:LEU:HD12	35:DA:1157:G:O2'	2.18	0.43
35:BA:27:G:C2'	35:BA:28:A:OP2	2.66	0.43
26:B1:82:LEU:HD12	26:B1:82:LEU:N	2.33	0.43
46:BN:13:TRP:O	46:BN:135:PRO:HD2	2.19	0.43
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.55	0.43
48:DP:107:LYS:HB2	48:DP:107:LYS:HE3	1.79	0.43
51:BS:28:VAL:HG13	51:BS:36:TYR:O	2.18	0.43
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.83	0.43
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.45	0.43
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.25	0.43
2:AB:142:LEU:O	2:AB:146:GLN:HB2	2.19	0.43
39:BE:76:ARG:O	39:BE:77:ILE:C	2.56	0.43
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	2.00	0.43
1:AA:1457:G:O5'	1:AA:1457:G:H8	2.01	0.43
41:DG:125:PHE:CE1	41:DG:170:ARG:HD2	2.53	0.43
35:DA:2376:A:O2'	51:DS:108:GLY:HA2	2.18	0.43
1:CA:1442(B):A:C2	52:DT:118:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:90:GLN:O	52:DT:92:GLY:N	2.51	0.43
5:CE:11:ILE:HD12	5:CE:31:LEU:HD13	2.01	0.43
5:CE:12:LEU:HD12	5:CE:12:LEU:H	1.82	0.43
19:CS:64:GLU:HG2	29:D4:48:ARG:HH21	1.79	0.43
19:CS:43:GLU:OE1	29:D4:56:VAL:HG22	2.18	0.43
13:CM:79:LYS:HA	13:CM:82:MET:CG	2.48	0.43
1:AA:697:U:H2'	1:AA:698:G:C5'	2.38	0.43
2:CB:21:ARG:HB3	2:CB:39:ILE:HG12	2.00	0.43
35:BA:978:G:N2	35:BA:979:G:H1'	2.33	0.43
39:BE:15:PHE:CZ	52:BT:80:SER:HB2	2.53	0.43
52:BT:32:TYR:O	52:BT:33:LYS:HB2	2.19	0.43
38:DD:92:ILE:H	38:DD:92:ILE:HD13	1.82	0.43
2:AB:12:GLU:OE1	2:AB:12:GLU:N	2.39	0.43
35:DA:1541:G:H5''	35:DA:1542:A:OP1	2.17	0.43
55:DW:66:GLU:HG3	55:DW:69:LEU:HD12	1.99	0.43
34:D9:29:ASN:N	34:D9:29:ASN:HD22	2.17	0.43
39:BE:93:VAL:HG12	39:BE:175:VAL:CG2	2.48	0.43
39:BE:1:MET:O	39:BE:2:LYS:O	2.36	0.43
37:DC:90:ALA:HA	37:DC:155:ARG:HH12	1.79	0.43
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.18	0.43
24:CY:71:THR:HG21	24:CY:357:ARG:CD	2.47	0.43
55:BW:17:VAL:O	55:BW:19:LEU:N	2.51	0.43
36:BB:67:G:O2'	36:BB:68:C:H5'	2.18	0.43
3:CC:3:ASN:N	3:CC:3:ASN:OD1	2.51	0.43
13:AM:3:ARG:CA	13:AM:9:ILE:HG13	2.45	0.43
13:AM:57:ARG:HH12	29:B4:34:GLU:HG3	1.83	0.43
14:AN:47:LEU:O	14:AN:48:ALA:C	2.56	0.43
1:AA:1422:G:C2	1:AA:1423:G:C5	3.07	0.43
1:AA:1000:U:H6	1:AA:1000:U:H3'	1.84	0.43
35:DA:1693:U:O2'	38:DD:14:ARG:NH2	2.51	0.43
32:D7:8:ASN:C	32:D7:8:ASN:HD22	2.19	0.43
7:CG:120:ILE:O	7:CG:124:LEU:HB2	2.19	0.43
27:D2:40:SER:O	27:D2:42:GLY:N	2.51	0.43
3:CC:139:GLN:O	3:CC:140:ARG:C	2.57	0.43
18:CR:87:ARG:CZ	18:CR:87:ARG:HB3	2.48	0.43
8:AH:46:LYS:HG3	8:AH:64:LYS:HB2	1.99	0.43
1:AA:186:C:C2	1:AA:187:C:C5	3.06	0.43
20:AT:86:ARG:HG3	20:AT:86:ARG:NH1	2.33	0.43
32:D7:46:VAL:CG1	32:D7:47:ARG:H	2.32	0.43
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	2.34	0.43
41:DG:11:TYR:OH	41:DG:33:ARG:CG	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:332:A:O2'	35:DA:334:C:OP2	2.35	0.43
1:CA:514:C:H2'	1:CA:515:G:H8	1.82	0.43
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.19	0.43
33:B8:42:ARG:C	33:B8:44:LYS:H	2.17	0.43
42:BH:35:VAL:HG21	42:BH:75:ALA:HB2	2.00	0.43
24:CY:688:ILE:N	24:CY:688:ILE:HD12	2.33	0.43
13:AM:29:ARG:HB3	13:AM:64:TRP:CZ2	2.54	0.43
37:DC:73:VAL:O	37:DC:73:VAL:HG13	2.18	0.43
35:DA:2009:G:O2'	35:DA:2010:G:H5'	2.19	0.43
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.19	0.43
35:DA:520:G:H2'	35:DA:521:G:C8	2.52	0.43
1:AA:67:C:H2'	1:AA:68:G:H8	1.83	0.43
13:CM:35:GLU:CG	13:CM:36:LYS:N	2.82	0.43
2:AB:178:ARG:CB	2:AB:178:ARG:HH11	2.31	0.43
46:BN:24:GLY:CA	46:BN:27:ALA:HB3	2.49	0.43
35:DA:245:G:O2'	35:DA:246:C:H5'	2.19	0.43
8:AH:38:ILE:O	8:AH:39:LEU:C	2.57	0.43
35:BA:1432:C:H2'	35:BA:1433:U:C6	2.54	0.43
35:DA:445:C:O2	35:DA:449:A:H2	2.01	0.43
35:BA:2081:C:H2'	35:BA:2082:A:C8	2.53	0.43
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.57	0.43
7:AG:22:LEU:HD23	7:AG:22:LEU:O	2.19	0.43
35:BA:2154:G:H2'	35:BA:2155:G:H8	1.83	0.43
22:CW:55:5MU:H2'	22:CW:56:U:O4'	2.18	0.43
24:AY:484:ARG:HA	24:AY:484:ARG:HD3	1.60	0.43
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.17	0.43
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.19	0.43
11:CK:60:ALA:O	11:CK:61:ALA:C	2.56	0.43
17:CQ:9:VAL:CG1	17:CQ:56:VAL:HG22	2.48	0.43
35:BA:654(B):C:H2'	35:BA:654(C):G:C8	2.53	0.43
43:DJ:108:UNK:O	43:DJ:109:UNK:C	2.65	0.43
35:BA:854:G:H1	35:BA:923:C:H42	1.67	0.43
35:BA:2701:C:H2'	35:BA:2702:U:H2'	2.00	0.43
4:AD:73:ARG:HD3	4:AD:73:ARG:HA	1.79	0.43
13:CM:46:LYS:HD3	13:CM:46:LYS:O	2.19	0.43
53:DU:5:LYS:HB2	53:DU:5:LYS:HE3	1.86	0.43
4:CD:54:TYR:O	4:CD:55:ALA:C	2.57	0.43
55:BW:62:HIS:O	55:BW:63:ASP:C	2.56	0.43
20:CT:81:LYS:C	20:CT:83:ARG:N	2.72	0.43
41:BG:97:ASP:O	41:BG:101:ILE:HG13	2.18	0.43
41:BG:108:ASN:O	41:BG:109:VAL:CG2	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:30:SER:O	10:AJ:81:THR:HG23	2.18	0.43
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.58	0.43
4:AD:18:LYS:HE2	4:AD:20:TYR:CE2	2.53	0.43
24:AY:260:LEU:N	24:AY:260:LEU:HD13	2.33	0.43
46:BN:2:LYS:HZ3	54:BV:12:TYR:HA	1.82	0.43
48:BP:64:LYS:O	48:BP:66:GLY:N	2.42	0.43
29:D4:26:SER:OG	29:D4:27:THR:N	2.51	0.43
58:BZ:120:ILE:HB	58:BZ:172:ALA:HA	2.01	0.43
58:BZ:54:HIS:HA	58:BZ:98:MET:HE1	2.01	0.43
40:BF:170:LEU:N	40:BF:170:LEU:CD2	2.81	0.43
30:D5:44:THR:CG2	50:DR:101:ALA:HB2	2.30	0.43
1:CA:1298:C:C5	7:CG:114:ARG:HD3	2.53	0.43
47:DO:60:ALA:HA	47:DO:87:ILE:HD11	2.01	0.43
51:BS:68:GLN:C	51:BS:70:GLY:N	2.72	0.43
36:BB:48:A:OP1	51:BS:93:LYS:HB3	2.18	0.43
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.99	0.43
38:DD:43:ARG:NH1	38:DD:49:ILE:HG22	2.32	0.43
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.83	0.43
35:DA:512:G:O2'	35:DA:513:A:H8	2.02	0.43
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.38	0.43
33:B8:61:LEU:N	33:B8:63:PRO:HD2	2.34	0.43
48:BP:113:LYS:HA	48:BP:129:ALA:O	2.19	0.43
44:BK:3:LYS:HE3	44:BK:3:LYS:HB3	1.78	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:HD22	1.84	0.43
19:AS:15:LEU:HD13	19:AS:31:ILE:HD11	2.01	0.43
39:BE:161:GLY:O	39:BE:162:ALA:C	2.57	0.43
24:AY:525:PHE:HA	24:AY:565:VAL:O	2.19	0.43
46:DN:22:THR:HB	46:DN:25:ARG:CB	2.46	0.43
27:B2:38:GLN:HA	27:B2:41:ILE:HG12	2.01	0.43
1:AA:323:U:H2'	1:AA:324:G:O4'	2.19	0.43
35:BA:1349:A:N6	35:BA:1598:C:N4	2.67	0.43
13:CM:91:ARG:HD3	13:CM:97:PRO:O	2.19	0.43
36:DB:90:A:C8	36:DB:91:C:H1'	2.54	0.43
25:B0:37:LEU:HG	25:B0:60:PHE:HA	2.01	0.43
52:BT:10:VAL:C	52:BT:12:SER:H	2.22	0.43
35:BA:2876:G:OP1	52:BT:2:ASN:O	2.37	0.43
42:BH:52:VAL:O	42:BH:52:VAL:HG12	2.18	0.43
15:CO:26:GLU:OE2	15:CO:77:ARG:HB2	2.18	0.43
27:D2:50:ILE:HG23	27:D2:54:LYS:HE3	2.00	0.43
35:BA:797:C:H2'	35:BA:798:G:C8	2.53	0.43
25:B0:40:GLN:HE22	25:B0:43:THR:C	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:132:VAL:O	40:DF:133:ASN:HB2	2.19	0.43
40:BF:160:ASN:HD22	40:BF:160:ASN:C	2.21	0.43
1:CA:732:C:H2'	1:CA:733:A:H5''	2.01	0.43
35:BA:2167:U:H2'	35:BA:2168:G:O4'	2.18	0.43
35:BA:1434:A:N3	35:BA:1434:A:H2'	2.34	0.43
3:AC:129:ALA:O	3:AC:131:ARG:N	2.51	0.43
3:AC:129:ALA:C	3:AC:131:ARG:N	2.72	0.43
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.44	0.43
55:DW:44:ALA:O	55:DW:45:TYR:C	2.57	0.43
39:DE:45:THR:O	39:DE:46:ALA:CB	2.66	0.43
9:CI:11:LYS:O	9:CI:11:LYS:HG2	2.18	0.43
9:CI:73:GLN:O	9:CI:75:ASP:N	2.52	0.43
35:BA:2483:C:H5'	35:BA:2484:G:OP2	2.19	0.43
1:AA:608:A:O2'	1:AA:609:A:H5'	2.19	0.43
24:AY:228:MET:CE	24:AY:229:LEU:HG	2.48	0.43
55:BW:47:VAL:HG12	55:BW:47:VAL:O	2.18	0.43
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.19	0.43
56:DX:41:ASN:HA	56:DX:44:GLU:HG2	2.00	0.43
29:B4:31:ILE:HG23	29:B4:33:VAL:HG23	2.00	0.43
24:AY:519:ARG:HH12	24:AY:678:GLU:CB	2.32	0.43
37:BC:139:PRO:HA	37:BC:145:THR:CB	2.49	0.43
35:DA:2080:G:C2	35:DA:2241:A:C2	3.07	0.43
28:D3:6:VAL:O	28:D3:6:VAL:HG23	2.19	0.43
36:BB:25:A:C2	36:BB:26:A:C4	3.07	0.43
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.53	0.43
35:BA:1930:G:O2'	35:BA:1931:U:O5'	2.36	0.43
35:DA:2552:U:C2	35:DA:2554:U:C5'	3.01	0.43
35:BA:1843:C:H2'	35:BA:1844:C:H6	1.84	0.43
35:BA:331:A:O2'	35:BA:332:A:OP1	2.27	0.43
38:DD:213:ARG:O	38:DD:215:LEU:N	2.52	0.43
50:DR:106:GLY:O	50:DR:107:ASP:HB3	2.17	0.43
20:CT:58:LYS:O	20:CT:59:ALA:C	2.57	0.43
19:CS:61:TYR:CG	19:CS:62:ILE:N	2.87	0.43
21:AU:6:ARG:NH2	21:AU:15:ARG:HH22	2.17	0.43
35:BA:329:G:H4'	35:BA:330:A:OP2	2.17	0.43
41:BG:129:GLY:O	41:BG:130:ASN:CG	2.56	0.43
46:DN:99:LEU:O	46:DN:102:ALA:HB3	2.19	0.43
46:BN:99:LEU:O	46:BN:102:ALA:HB3	2.18	0.43
22:AV:29:G:O2'	22:AV:30:G:H5'	2.19	0.43
35:DA:2219:G:H8	35:DA:2219:G:O5'	2.01	0.43
35:BA:2116:G:N7	35:BA:2117:A:C4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:144:MET:O	7:AG:147:ALA:HB3	2.19	0.43
3:CC:111:LEU:CD2	3:CC:141:VAL:HG13	2.49	0.43
46:DN:34:LEU:O	46:DN:116:LEU:HD22	2.18	0.43
2:CB:137:ARG:NH1	2:CB:137:ARG:HG2	2.34	0.43
39:BE:165:VAL:HB	39:BE:189:PRO:HB3	2.01	0.43
35:BA:525:U:O2'	35:BA:526:A:H5''	2.19	0.43
1:AA:636:U:H2'	1:AA:637:G:H8	1.83	0.43
34:B9:16:VAL:O	35:BA:1033:U:H5	2.00	0.43
35:BA:1310:G:C2'	35:BA:1311:G:H5'	2.49	0.43
35:BA:950:G:H2'	35:BA:951:C:C6	2.53	0.43
1:AA:743:U:H2'	1:AA:744:C:C6	2.53	0.43
7:AG:129:GLU:OE2	7:AG:131:LYS:HE2	2.18	0.43
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	2.00	0.43
24:CY:302:HIS:C	24:CY:304:ASP:H	2.22	0.43
36:BB:51:G:H5'	36:BB:52:A:OP2	2.18	0.43
36:BB:5:C:O2'	36:BB:6:C:H5'	2.19	0.43
15:AO:48:LYS:HD3	15:AO:48:LYS:HA	1.72	0.43
24:CY:651:GLU:OE1	24:CY:651:GLU:HA	2.18	0.43
27:B2:59:ARG:HG2	27:B2:59:ARG:H	1.47	0.43
35:DA:2154:G:H2'	35:DA:2155:G:C8	2.54	0.43
40:DF:25:PRO:CB	40:DF:119:ARG:HB2	2.48	0.43
41:BG:56:ALA:HB2	41:BG:153:ARG:NH2	2.34	0.43
41:BG:59:GLU:C	41:BG:61:ALA:H	2.22	0.43
10:AJ:4:ILE:CD1	10:AJ:4:ILE:N	2.79	0.43
37:BC:148:PHE:C	37:BC:150:ILE:H	2.21	0.43
1:AA:509:A:H5'	1:AA:510:A:P	2.51	0.43
40:BF:198:ALA:HA	40:BF:201:VAL:HG12	2.01	0.43
24:AY:138:LYS:HG2	62:AY:703:GDP:C6	2.54	0.43
40:BF:117:ARG:NH1	40:BF:120:GLU:OE1	2.52	0.43
46:DN:4:TYR:O	46:DN:5:VAL:C	2.57	0.43
53:DU:112:ARG:CG	53:DU:112:ARG:NH1	2.82	0.43
33:B8:9:GLY:O	33:B8:13:ARG:HG2	2.19	0.43
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.54	0.43
35:DA:299:A:H1'	35:DA:322:A:N6	2.33	0.43
19:AS:57:HIS:O	19:AS:59:PRO:HD3	2.19	0.43
33:D8:9:GLY:O	33:D8:13:ARG:HG2	2.18	0.43
48:DP:47:ASP:HB3	48:DP:48:PRO:C	2.39	0.43
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.19	0.43
1:CA:1002:G:C8	1:CA:1003:G:N7	2.86	0.43
3:CC:43:LEU:C	3:CC:45:LYS:H	2.22	0.43
3:CC:50:ALA:HA	3:CC:72:LYS:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1263:U:C4	35:BA:1264:G:C6	3.06	0.43
35:DA:1263:U:H2'	35:DA:1264:G:C8	2.53	0.43
24:CY:261:GLY:O	24:CY:262:SER:C	2.56	0.43
40:DF:10:PRO:HB3	40:DF:127:GLU:CG	2.49	0.43
31:B6:17:LYS:CB	31:B6:44:ARG:NH1	2.82	0.43
35:BA:2345:G:N7	35:BA:2372:G:C2	2.87	0.43
51:BS:104:GLY:O	51:BS:106:ARG:N	2.47	0.43
51:BS:25:ARG:CG	51:BS:26:LEU:H	2.30	0.43
5:CE:143:ARG:HH12	8:CH:77:GLU:CD	2.22	0.43
5:CE:78:HIS:HE1	5:CE:80:ILE:CG2	2.30	0.43
35:DA:448:U:C4	35:DA:583:G:H1'	2.54	0.43
33:D8:61:LEU:N	33:D8:63:PRO:HD2	2.34	0.43
2:CB:207:ALA:C	2:CB:209:ARG:N	2.70	0.43
26:B1:44:PRO:C	26:B1:46:LEU:HD13	2.39	0.43
44:BK:8:VAL:CG1	44:BK:10:LEU:HG	2.47	0.43
46:DN:43:THR:HB	46:DN:46:VAL:CG1	2.46	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:ND2	2.33	0.43
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.19	0.43
35:BA:2785:C:H1'	39:BE:64:LYS:NZ	2.34	0.43
35:DA:2889:C:H2'	35:DA:2891:G:O4'	2.19	0.43
35:DA:2785:C:H1'	39:DE:64:LYS:NZ	2.34	0.43
35:BA:945:A:C2	35:BA:2448:A:N1	2.87	0.43
35:DA:2291:U:OP1	35:DA:2380:C:O2'	2.36	0.43
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.18	0.43
51:DS:78:LEU:HD11	51:DS:103:GLU:HB3	2.01	0.43
35:DA:2850:A:OP2	35:DA:2866:U:H5	2.02	0.43
9:AI:114:TYR:CD1	10:AJ:60:ARG:HG3	2.53	0.43
22:CW:66:C:C4	22:CW:67:C:N4	2.86	0.43
35:BA:1947:C:H2'	35:BA:1948:G:H8	1.82	0.43
15:AO:26:GLU:OE2	15:AO:77:ARG:HB2	2.19	0.43
13:CM:66:LEU:O	13:CM:67:GLU:O	2.37	0.43
42:DH:149:ARG:HA	42:DH:162:ILE:CG1	2.48	0.43
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.79	0.43
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.48	0.43
1:CA:1260:C:O5'	1:CA:1284:C:H4'	2.18	0.43
35:DA:11:G:H2'	35:DA:12:U:H6	1.81	0.43
35:DA:2390:U:O2'	35:DA:2391:G:H5'	2.18	0.43
51:DS:65:VAL:C	51:DS:67:ARG:H	2.21	0.43
40:DF:133:ASN:O	40:DF:134:GLY:C	2.57	0.43
40:BF:133:ASN:O	40:BF:134:GLY:C	2.57	0.43
39:DE:15:PHE:CZ	52:DT:80:SER:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:77:ALA:HB1	51:BS:82:ILE:HB	2.00	0.43
34:D9:29:ASN:HA	34:D9:30:PRO:HD2	1.89	0.43
35:DA:2122:U:O2'	37:DC:173:HIS:HD2	2.01	0.43
24:AY:350:GLU:HG3	24:AY:380:LEU:HG	2.01	0.43
4:AD:92:VAL:O	4:AD:95:GLY:N	2.52	0.43
35:DA:2467:C:O2	49:DQ:124:LYS:NZ	2.52	0.43
19:AS:65:ASN:HA	29:B4:48:ARG:CZ	2.49	0.43
37:BC:127:LYS:O	37:BC:128:LEU:HD23	2.18	0.43
35:DA:839:U:H2'	35:DA:840:C:H6	1.80	0.43
1:AA:1202:G:H2'	1:AA:1203:C:H5'	2.00	0.43
12:AL:37:CYS:HB3	12:AL:79:GLU:O	2.18	0.43
12:AL:86:ARG:NH2	12:AL:99:HIS:CG	2.87	0.43
35:BA:420:C:H2'	35:BA:421:U:C6	2.54	0.43
1:CA:1352:C:OP1	21:CU:3:LYS:CE	2.67	0.43
32:B7:8:ASN:HD22	32:B7:8:ASN:C	2.18	0.43
55:BW:70:TYR:HB3	55:BW:110:LYS:NZ	2.33	0.43
55:BW:72:LYS:H	55:BW:107:LEU:HA	1.84	0.43
7:AG:79:ARG:O	7:AG:79:ARG:HD2	2.19	0.43
35:DA:64:A:C5	56:DX:66:LEU:HD13	2.54	0.43
44:BK:75:SER:C	44:BK:78:ILE:HG22	2.38	0.43
18:CR:79:LEU:HD23	18:CR:79:LEU:HA	1.91	0.43
49:BQ:21:THR:OG1	49:BQ:99:PRO:O	2.37	0.43
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.53	0.43
1:AA:1347:G:H2'	1:AA:1373:G:N1	2.34	0.43
35:BA:87:C:OP2	35:BA:90:U:O4	2.37	0.43
35:DA:420:C:H2'	35:DA:421:U:C6	2.54	0.43
35:DA:2801(A):A:H4'	35:DA:2802:G:H8	1.81	0.43
3:CC:140:ARG:NH1	3:CC:140:ARG:HG3	2.34	0.43
35:BA:1114:G:O2'	35:BA:1115:G:H5"	2.19	0.43
36:DB:25:A:C2	36:DB:26:A:C4	3.06	0.43
1:AA:714:G:H2'	1:AA:715:A:C8	2.53	0.43
1:CA:40:C:H2'	1:CA:41:G:H8	1.82	0.43
4:CD:121:VAL:CA	4:CD:126:ILE:HD13	2.47	0.43
1:AA:666:G:N2	1:AA:667:G:H1'	2.34	0.43
35:DA:483:A:C2	35:DA:484:C:C1'	3.02	0.43
35:BA:36:G:H4'	35:BA:451:C:C2	2.54	0.43
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	2.00	0.43
50:DR:53:HIS:HD1	50:DR:53:HIS:C	2.22	0.43
24:AY:315:LYS:HZ2	24:AY:317:MET:HG2	1.83	0.43
35:BA:78:A:H2'	35:BA:79:G:H8	1.84	0.43
1:CA:143:A:N1	1:CA:220:G:O6	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2219:G:C2'	35:BA:2220:G:H5'	2.49	0.43
8:CH:66:GLY:O	8:CH:76:PRO:HB3	2.18	0.43
26:D1:4:VAL:CG2	26:D1:5:CYS:N	2.81	0.43
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.48	0.43
4:CD:132:ARG:C	4:CD:132:ARG:HD2	2.38	0.43
1:CA:1008:C:O5'	1:CA:1008:C:H6	2.02	0.43
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.83	0.43
46:DN:109:LYS:HE3	46:DN:109:LYS:H	1.84	0.43
1:AA:417:C:H2'	1:AA:418:C:H6	1.84	0.43
13:CM:94:ARG:CZ	19:CS:82:GLY:N	2.81	0.43
1:CA:1360:A:H2'	1:CA:1361:G:C8	2.53	0.43
35:BA:1680:U:O2	35:BA:1763:G:H3'	2.18	0.43
56:DX:57:LEU:HD22	56:DX:57:LEU:C	2.39	0.43
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.34	0.43
39:DE:152:LYS:HG3	39:DE:153:GLY:H	1.83	0.43
41:BG:9:ARG:HG2	41:BG:13:GLU:OE1	2.18	0.43
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.37	0.43
24:AY:5:VAL:C	24:AY:7:TYR:H	2.22	0.43
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.84	0.43
36:DB:76:G:H21	58:DZ:75:ASN:HD22	1.66	0.43
1:AA:786:G:C2	1:AA:787:A:C4	3.07	0.43
35:BA:2881:C:C2	35:BA:2882:A:C8	3.06	0.43
27:B2:59:ARG:O	27:B2:60:LEU:C	2.57	0.43
26:D1:34:THR:HG21	26:D1:37:ILE:HG13	2.01	0.43
53:BU:29:SER:OG	53:BU:30:LYS:HE2	2.19	0.43
15:CO:18:PHE:O	15:CO:18:PHE:CD1	2.71	0.43
24:AY:641:GLN:HB2	24:AY:641:GLN:HE21	1.63	0.43
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.39	0.43
26:D1:75:GLU:OE1	26:D1:75:GLU:HA	2.18	0.43
8:CH:122:ARG:HB3	8:CH:122:ARG:HH11	1.83	0.43
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.59	0.43
5:AE:69:VAL:HA	5:AE:70:PRO:HD2	1.82	0.43
1:CA:786:G:C2	1:CA:787:A:C4	3.06	0.43
35:BA:2531:A:H4'	42:BH:157:TYR:CD2	2.53	0.43
10:AJ:98:ILE:CG2	10:AJ:98:ILE:O	2.66	0.43
35:BA:2578:G:N2	35:BA:2579:C:C2	2.87	0.43
37:BC:149:ASN:ND2	37:BC:149:ASN:C	2.72	0.43
24:AY:208:GLN:O	24:AY:209:ALA:O	2.37	0.43
24:AY:238:THR:HG23	24:AY:240:GLU:HG2	2.00	0.43
54:DV:38:LEU:C	54:DV:39:LEU:HD22	2.39	0.43
24:AY:282:SER:C	24:AY:284:LEU:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:415:PRO:HB2	24:AY:421:GLN:HA	2.00	0.43
35:DA:83:G:N2	35:DA:103:A:OP2	2.52	0.43
1:AA:1037:C:H2'	1:AA:1038:C:N1	2.33	0.43
51:BS:13:ARG:CG	51:BS:14:VAL:N	2.64	0.43
31:D6:51:GLU:HG2	31:D6:52:VAL:N	2.31	0.43
1:AA:1237:C:H3'	1:AA:1336:C:N4	2.33	0.43
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.83	0.43
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	2.00	0.43
37:DC:139:PRO:HA	37:DC:145:THR:HG21	2.01	0.43
51:BS:63:THR:O	51:BS:66:ALA:N	2.51	0.43
44:BK:4:VAL:CG1	44:BK:5:VAL:H	2.10	0.43
5:CE:78:HIS:ND1	5:CE:79:GLU:N	2.67	0.43
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.18	0.43
35:BA:581:C:C2	35:BA:582:G:N7	2.87	0.43
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.66	0.43
2:CB:142:LEU:CD2	2:CB:146:GLN:NE2	2.82	0.43
35:DA:2572:A:C8	39:DE:144:ARG:CB	3.02	0.43
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.49	0.43
48:BP:98:GLU:O	48:BP:102:ARG:NH2	2.52	0.43
35:DA:1814:G:C4'	38:DD:51:VAL:HG21	2.49	0.43
49:DQ:69:PHE:CD1	49:DQ:70:PRO:HD2	2.53	0.43
35:BA:2821:A:OP2	39:BE:110:GLY:O	2.37	0.43
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	2.00	0.43
1:AA:450:G:H1	1:AA:483:C:H42	1.66	0.43
41:DG:97:ASP:O	41:DG:101:ILE:HB	2.18	0.43
35:BA:2849:U:H1'	35:BA:2866:U:H6	1.84	0.43
35:BA:361:G:N2	35:BA:362:U:H1'	2.34	0.43
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.52	0.43
1:AA:965:A:C2	1:AA:969:A:N1	2.87	0.43
13:CM:91:ARG:CD	13:CM:97:PRO:O	2.67	0.43
2:AB:39:ILE:HG22	2:AB:41:ILE:HD12	2.00	0.43
35:DA:1971:A:N3	38:DD:241:PRO:HD3	2.34	0.43
58:DZ:133:ILE:N	58:DZ:134:PRO:CD	2.81	0.43
36:BB:89:G:C6	36:BB:90:A:N1	2.87	0.43
15:CO:82:ILE:CD1	15:CO:82:ILE:C	2.82	0.43
49:DQ:132:VAL:HB	49:DQ:137:TYR:OH	2.19	0.43
24:CY:495:GLY:O	24:CY:509:HIS:HA	2.18	0.43
35:DA:1315:C:H42	35:DA:1337:G:H1	1.66	0.43
58:BZ:81:ARG:NH1	58:BZ:81:ARG:HB3	2.34	0.43
47:BO:24:VAL:O	47:BO:24:VAL:CG2	2.66	0.43
35:DA:1654:A:O2'	39:DE:113:PHE:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2089:U:O2'	35:DA:2090:G:H5'	2.18	0.43
3:CC:131:ARG:O	3:CC:132:ARG:C	2.56	0.43
35:BA:1463:C:H2'	35:BA:1464:C:H6	1.82	0.43
24:CY:226:ASN:O	24:CY:228:MET:N	2.51	0.43
37:DC:29:LEU:CD2	37:DC:29:LEU:C	2.88	0.43
13:AM:66:LEU:HA	13:AM:70:LEU:HD13	2.01	0.43
37:BC:135:ARG:C	37:BC:137:LEU:H	2.22	0.43
4:AD:96:LEU:O	4:AD:99:SER:N	2.51	0.43
58:DZ:25:PRO:HA	58:DZ:38:TYR:CB	2.49	0.43
18:AR:72:ARG:O	18:AR:73:ALA:C	2.57	0.43
24:AY:447:GLY:O	24:AY:448:GLN:O	2.36	0.43
1:AA:277:C:C2'	1:AA:278:G:H5'	2.49	0.43
2:CB:233:SER:HB2	2:CB:234:PRO:HD3	1.98	0.43
35:BA:1174:A:H5'	35:BA:1175:U:H5''	2.01	0.43
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.19	0.43
35:BA:2197:U:H1'	35:BA:2198:A:C8	2.53	0.43
9:CI:42:ARG:O	9:CI:43:ALA:C	2.57	0.43
29:B4:31:ILE:O	29:B4:31:ILE:HG22	2.18	0.43
24:AY:609:GLU:HB2	24:AY:670:VAL:CG2	2.49	0.43
36:BB:96:U:H2'	36:BB:97:G:H8	1.84	0.43
24:CY:315:LYS:NZ	24:CY:317:MET:CG	2.82	0.43
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.33	0.43
24:AY:539:ILE:N	24:AY:540:PRO:CD	2.81	0.43
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	2.01	0.43
35:BA:1567:A:OP2	38:BD:84:TYR:OH	2.33	0.43
35:BA:565:C:O2'	35:BA:566:U:H5'	2.19	0.43
1:CA:1347:G:H2'	1:CA:1373:G:N1	2.34	0.43
42:DH:38:SER:HA	42:DH:39:PRO:HD3	1.84	0.43
1:AA:66:G:C4'	1:AA:173:U:C5	3.00	0.43
30:D5:16:ARG:HG2	30:D5:16:ARG:HH11	1.84	0.43
35:DA:332:A:H4'	35:DA:333:G:OP1	2.19	0.43
4:CD:108:LEU:HD23	4:CD:110:PHE:CZ	2.53	0.43
13:CM:29:ARG:HB3	13:CM:64:TRP:CZ2	2.54	0.43
1:CA:822:C:O2'	1:CA:823:G:H5'	2.18	0.43
24:CY:621:ILE:HD12	35:DA:1095:A:H1'	2.01	0.43
57:BY:54:LYS:HE2	57:BY:55:TYR:HE2	1.84	0.43
35:BA:271(E):U:H3	35:BA:271(S):G:H1	1.66	0.43
1:AA:47:C:H6	1:AA:365:U:H2'	1.84	0.43
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.18	0.43
1:AA:1411:C:O2	1:AA:1411:C:H2'	2.19	0.43
7:CG:65:ALA:HB2	7:CG:128:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:499:A:O2'	1:CA:500:G:C8	2.65	0.43
1:AA:954:G:H2'	1:AA:955:U:O4'	2.18	0.43
1:CA:405:U:OP2	4:CD:3:ARG:HD2	2.19	0.43
8:AH:6:ILE:O	8:AH:9:MET:N	2.52	0.43
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.31	0.43
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.67	0.43
11:AK:109:VAL:HG13	18:AR:85:LEU:O	2.19	0.43
55:BW:12:ILE:CG1	55:BW:42:ARG:NH1	2.81	0.43
5:AE:139:LEU:C	5:AE:141:GLN:N	2.72	0.43
1:AA:1360:A:H2'	1:AA:1361:G:C8	2.53	0.43
1:CA:398:C:H2'	1:CA:399:G:H8	1.84	0.43
47:BO:120:GLU:OE2	47:BO:122:LEU:HD21	2.18	0.43
1:CA:596:C:OP2	1:CA:597:G:OP2	2.37	0.43
1:CA:785:G:C2'	1:CA:786:G:H5'	2.48	0.43
35:BA:2848:G:OP2	52:BT:97:ALA:N	2.49	0.43
7:AG:85:TYR:CD1	7:AG:154:TYR:HE1	2.37	0.43
35:DA:930:U:H4'	35:DA:931:G:O5'	2.19	0.43
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.49	0.43
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.54	0.43
35:BA:1765:C:H2'	35:BA:1766:U:H6	1.83	0.43
1:CA:61:G:H2'	1:CA:62:U:O4'	2.19	0.43
52:DT:14:TYR:CD1	52:DT:14:TYR:N	2.87	0.43
1:AA:342:C:C5	1:AA:343:U:C5	3.06	0.43
24:AY:623:ASP:HB2	24:AY:662:LYS:HE3	2.01	0.43
29:B4:28:LYS:HE3	29:B4:28:LYS:HA	2.01	0.43
41:BG:162:THR:O	41:BG:163:ALA:C	2.56	0.43
41:BG:34:LEU:H	41:BG:34:LEU:HD12	1.83	0.43
29:B4:1:MET:HE2	41:BG:66:GLN:OE1	2.18	0.43
41:BG:39:ILE:HD11	41:BG:92:VAL:CG2	2.48	0.43
4:CD:14:ARG:C	4:CD:16:GLY:N	2.71	0.43
35:BA:769:G:HO2'	35:BA:770:G:H5'	1.81	0.43
24:CY:406:GLU:OE1	24:CY:406:GLU:N	2.31	0.43
24:CY:84:THR:C	61:CY:702:FUA:H322	2.39	0.43
24:AY:166:LEU:HD21	24:AY:212:TYR:CD2	2.53	0.43
9:CI:20:ARG:O	9:CI:60:ASP:N	2.44	0.43
35:DA:904:C:C5'	35:DA:904:C:H6	2.26	0.43
58:DZ:125:LEU:HB3	58:DZ:165:VAL:HG22	2.00	0.43
53:DU:53:ARG:HG3	53:DU:57:PHE:HE1	1.84	0.43
53:DU:92:ARG:HB3	54:DV:11:GLN:NE2	2.34	0.43
54:BV:40:LEU:N	54:BV:40:LEU:CD2	2.82	0.43
35:DA:611:C:H2'	35:DA:612:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:415:PRO:HB2	24:AY:421:GLN:N	2.34	0.43
35:BA:833:U:OP1	48:BP:45:LEU:HD21	2.18	0.43
48:BP:23:PRO:O	48:BP:29:LYS:O	2.36	0.43
48:BP:58:THR:O	48:BP:61:ARG:HG3	2.18	0.43
58:DZ:48:PHE:CD1	58:DZ:48:PHE:C	2.92	0.43
35:BA:272(I):U:C5	35:BA:363(A):A:C2	3.07	0.43
57:BY:13:VAL:HG22	57:BY:14:LEU:N	2.32	0.43
40:DF:206:ILE:CG2	40:DF:207:GLY:H	2.31	0.43
33:D8:56:GLU:C	33:D8:58:ILE:H	2.23	0.43
35:BA:186:G:C2	35:BA:211:A:C2	3.06	0.43
57:BY:77:PRO:O	57:BY:78:ALA:CB	2.67	0.43
1:CA:1003:G:N2	1:CA:1004:A:H1'	2.33	0.43
5:AE:78:HIS:HE1	5:AE:80:ILE:HG23	1.83	0.43
3:CC:47:LEU:HB3	3:CC:52:LEU:HD22	2.00	0.43
3:CC:77:ILE:O	3:CC:84:ILE:HG22	2.18	0.43
35:BA:2615:U:H2'	35:BA:2616:C:H6	1.84	0.43
24:CY:13:ARG:HH11	24:CY:277:VAL:HA	1.84	0.43
31:B6:17:LYS:O	31:B6:18:ARG:O	2.37	0.43
5:CE:145:LYS:O	5:CE:149:GLU:HG2	2.19	0.43
40:BF:10:PRO:HB3	40:BF:127:GLU:CG	2.49	0.43
40:BF:17:ARG:HG3	40:BF:17:ARG:NH1	2.34	0.43
48:BP:11:GLY:O	48:BP:12:ALA:O	2.36	0.43
24:AY:276:VAL:HG12	24:AY:277:VAL:N	2.34	0.43
27:D2:13:ALA:O	27:D2:14:ARG:C	2.56	0.43
48:DP:115:LEU:CD2	48:DP:115:LEU:N	2.81	0.43
2:CB:58:ILE:H	2:CB:58:ILE:HG13	1.68	0.43
35:DA:143:G:H2'	35:DA:143(A):C:H6	1.84	0.43
39:BE:68:ALA:C	39:BE:70:ALA:H	2.22	0.43
39:BE:51:PHE:O	39:BE:74:PRO:HB3	2.18	0.43
35:BA:143(A):C:H2'	35:BA:143(A):C:O2	2.17	0.43
58:DZ:17:ALA:C	58:DZ:20:ARG:HG2	2.38	0.43
30:B5:48:GLU:C	30:B5:49:CYS:SG	2.98	0.43
27:B2:36:ARG:O	27:B2:37:PHE:C	2.56	0.43
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.52	0.43
1:AA:322:C:H4'	20:AT:23:ARG:HD2	2.01	0.43
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.18	0.43
19:CS:15:LEU:HD13	19:CS:31:ILE:HD11	2.01	0.43
35:BA:545:C:C3'	35:BA:547:A:C5'	2.95	0.43
6:CF:67:MET:CE	6:CF:75:LEU:HD22	2.49	0.43
35:DA:978:G:N2	35:DA:979:G:H1'	2.34	0.43
42:DH:120:GLY:C	42:DH:121:ILE:HG13	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:137:ASP:HB2	42:DH:140:LYS:CD	2.47	0.43
42:DH:149:ARG:HD3	42:DH:164:TYR:HE1	1.79	0.43
35:BA:977:G:H2'	35:BA:978:G:H8	1.83	0.43
52:DT:50:ILE:HD11	52:DT:64:ARG:HB3	2.00	0.43
24:CY:492:ASP:CG	24:CY:512:ILE:O	2.58	0.43
24:CY:428:LEU:N	24:CY:428:LEU:HD23	2.29	0.43
1:AA:769:G:O2'	1:AA:770:C:H5'	2.19	0.43
35:BA:2488:A:H2'	35:BA:2489:G:C8	2.54	0.43
55:DW:66:GLU:HA	55:DW:69:LEU:HD12	2.01	0.43
34:D9:1:MET:SD	35:DA:2478:A:OP2	2.76	0.43
52:DT:126:ALA:C	52:DT:128:GLU:N	2.72	0.43
35:DA:886:C:H2'	35:DA:887:A:O4'	2.19	0.43
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	2.00	0.43
9:AI:46:ALA:C	9:AI:47:LEU:HD12	2.39	0.43
24:AY:229:LEU:O	24:AY:231:TYR:N	2.52	0.43
35:DA:746:A:HO2'	35:DA:2611:U:HO2'	1.63	0.43
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	2.01	0.43
42:DH:18:GLU:CB	42:DH:25:LYS:HB2	2.45	0.43
28:D3:22:ALA:HA	28:D3:46:ASN:ND2	2.33	0.43
35:BA:739:G:OP2	35:BA:739:G:H8	2.02	0.43
56:BX:41:ASN:HD22	56:BX:41:ASN:N	2.16	0.43
24:AY:659:LEU:O	24:AY:659:LEU:HD13	2.18	0.43
38:DD:218:ARG:NH1	38:DD:218:ARG:HG3	2.33	0.43
20:CT:74:LYS:HB2	20:CT:75:ASN:H	1.45	0.43
55:DW:37:ARG:HG3	55:DW:38:TYR:CD2	2.54	0.43
39:DE:7:VAL:CG1	39:DE:27:LEU:HB3	2.47	0.43
16:CP:6:LEU:HD11	16:CP:19:ILE:CD1	2.49	0.43
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.19	0.43
1:CA:345:C:H5'	1:CA:346:G:OP2	2.18	0.43
24:CY:293:THR:HG23	24:CY:297:GLU:HG3	2.01	0.43
39:DE:26:ILE:HG13	39:DE:182:LEU:HB3	2.00	0.43
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.18	0.43
13:AM:10:PRO:O	13:AM:11:ARG:CB	2.66	0.43
51:DS:40:ILE:HG22	51:DS:41:ASP:H	1.84	0.43
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.67	0.43
35:DA:2078:C:H1'	35:DA:2434:A:H1'	2.01	0.43
1:CA:98:G:C2'	1:CA:99:U:H5'	2.49	0.43
35:DA:406:G:O2'	35:DA:407:G:C8	2.60	0.43
55:DW:11:ARG:HD3	55:DW:11:ARG:O	2.18	0.43
35:BA:708:C:H42	35:BA:723:G:H1	1.67	0.43
35:BA:1545:A:N7	35:BA:1546:C:C2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.43
45:BL:79:UNK:O	45:BL:80:UNK:C	2.67	0.43
2:CB:9:GLU:HG2	2:CB:10:LEU:N	2.34	0.43
37:DC:184:GLU:OE1	37:DC:185:LYS:HD2	2.19	0.43
46:BN:34:LEU:O	46:BN:116:LEU:HD22	2.19	0.43
5:CE:155:GLU:N	8:CH:64:LYS:HE2	2.34	0.43
35:DA:1666:G:H2'	35:DA:1667:G:H5'	2.00	0.43
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.54	0.43
15:CO:27:VAL:O	15:CO:31:LEU:HD23	2.18	0.43
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.33	0.43
21:AU:8:THR:O	21:AU:9:ARG:C	2.56	0.43
28:B3:1:MET:HB3	28:B3:2:PRO:HD2	2.01	0.43
9:AI:56:LEU:HD23	9:AI:56:LEU:O	2.19	0.43
38:DD:45:ASN:CG	38:DD:46:GLN:H	2.21	0.43
22:AV:9:G:N3	22:AV:45:G:H2'	2.33	0.43
1:AA:596:C:H6	1:AA:596:C:O5'	2.02	0.43
1:CA:811:C:H4'	1:CA:900:A:N6	2.34	0.43
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.74	0.43
17:CQ:60:ILE:HG22	17:CQ:72:ARG:O	2.19	0.43
35:DA:452:G:N3	35:DA:457:A:H2	2.16	0.43
35:DA:1836:C:O2'	35:DA:1837:C:H5'	2.18	0.43
35:BA:2576:G:H3'	35:BA:2576:G:N3	2.33	0.43
35:DA:527:C:O4'	35:DA:527:C:O2	2.34	0.43
58:BZ:175:VAL:HB	58:BZ:176:PRO:HD2	2.00	0.43
40:DF:116:ASP:OD2	48:DP:5:ASP:N	2.52	0.42
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.86	0.42
41:BG:145:THR:OG1	41:BG:146:TYR:N	2.52	0.42
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	2.00	0.42
24:AY:182:ARG:NH1	24:AY:182:ARG:HG3	2.34	0.42
24:AY:206:LEU:O	24:AY:209:ALA:HB3	2.19	0.42
35:BA:1204:A:H2	35:BA:1241:A:N1	2.17	0.42
53:DU:59:ARG:CG	53:DU:59:ARG:HH11	2.24	0.42
53:BU:53:ARG:HG3	53:BU:57:PHE:HE1	1.84	0.42
33:B8:48:PHE:HB3	33:B8:49:VAL:H	1.46	0.42
57:DY:14:LEU:HB2	57:DY:24:VAL:HG22	2.00	0.42
16:CP:57:ARG:O	16:CP:58:TYR:C	2.57	0.42
56:BX:28:PHE:N	56:BX:28:PHE:CD1	2.82	0.42
35:DA:1902:C:C4'	38:DD:244:ARG:HB2	2.49	0.42
35:BA:300:A:P	57:BY:97:ARG:HE	2.41	0.42
5:AE:78:HIS:ND1	5:AE:79:GLU:N	2.67	0.42
3:CC:43:LEU:C	3:CC:45:LYS:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	2.00	0.42
30:D5:3:LYS:HG2	35:DA:747:U:C4	2.54	0.42
24:CY:224:ASP:HB2	24:CY:227:ILE:HD12	2.01	0.42
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.84	0.42
30:B5:44:THR:O	30:B5:51:TYR:CE1	2.70	0.42
51:BS:101:LEU:C	51:BS:101:LEU:CD1	2.87	0.42
5:CE:145:LYS:HA	8:CH:107:LEU:HD21	2.01	0.42
35:BA:811:U:O2	35:BA:1251:C:C6	2.71	0.42
35:BA:811:U:O2	35:BA:1251:C:C5	2.72	0.42
35:DA:2309:A:H2'	35:DA:2310:A:C5'	2.49	0.42
41:DG:168:GLU:O	41:DG:170:ARG:N	2.52	0.42
35:DA:2849:U:H1'	35:DA:2866:U:H6	1.84	0.42
24:AY:526:VAL:HG23	24:AY:565:VAL:O	2.18	0.42
46:DN:60:ILE:HG22	46:DN:61:ARG:N	2.33	0.42
1:AA:1442(A):G:O2'	1:AA:1442(B):A:H5''	2.18	0.42
27:B2:38:GLN:HE21	27:B2:44:LEU:HB2	1.84	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.66	0.42
2:CB:223:ILE:HG12	2:CB:226:ARG:HH22	1.79	0.42
2:AB:28:PHE:CE1	2:AB:31:TYR:HB2	2.54	0.42
19:CS:41:VAL:CG2	19:CS:44:MET:HB2	2.37	0.42
49:BQ:52:VAL:HG12	49:BQ:53:ALA:N	2.33	0.42
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.66	0.42
35:DA:1827:C:H2'	35:DA:1828:G:C5'	2.49	0.42
50:DR:13:HIS:O	50:DR:14:SER:C	2.57	0.42
42:DH:74:ASN:OD1	42:DH:138:LYS:HE3	2.19	0.42
47:DO:24:VAL:O	47:DO:24:VAL:CG2	2.65	0.42
47:DO:69:ILE:CD1	47:DO:77:ILE:HG23	2.41	0.42
35:BA:8:A:H2'	35:BA:9:U:C6	2.54	0.42
9:CI:125:TYR:HD2	9:CI:126:SER:N	2.17	0.42
1:CA:1277:C:H3'	1:CA:1277:C:C6	2.53	0.42
41:DG:4:ASP:HA	41:DG:8:LYS:HG2	2.00	0.42
19:AS:9:VAL:HG21	29:B4:53:GLU:CG	2.49	0.42
35:DA:460:A:H2'	35:DA:461:C:O4'	2.18	0.42
40:BF:160:ASN:ND2	40:BF:161:GLU:N	2.67	0.42
35:BA:1128:A:C8	35:BA:2518:A:N6	2.87	0.42
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.19	0.42
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	2.00	0.42
35:DA:2489:G:C6	35:DA:2490:G:C6	3.07	0.42
35:DA:2126:A:N1	35:DA:2162:G:O2'	2.46	0.42
24:AY:327:PHE:HA	24:AY:375:GLY:O	2.19	0.42
37:BC:98:GLU:HA	37:BC:101:ILE:CD1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:21:TYR:N	50:BR:21:TYR:CD2	2.87	0.42
35:BA:817:C:O2'	35:BA:839:U:OP1	2.37	0.42
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.81	0.42
35:DA:2020:A:N1	35:DA:2022:U:C2	2.87	0.42
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.49	0.42
34:B9:29:ASN:N	34:B9:29:ASN:ND2	2.66	0.42
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	2.01	0.42
52:BT:16:ARG:HG3	52:BT:16:ARG:HH11	1.84	0.42
1:AA:674:G:H2'	1:AA:675:A:H8	1.83	0.42
4:CD:159:ARG:NH1	4:CD:159:ARG:HG3	2.33	0.42
29:B4:29:PRO:HB2	29:B4:30:GLU:OE1	2.19	0.42
1:AA:1101:A:H4'	1:AA:1102:A:H4'	2.01	0.42
1:AA:360:A:O2'	1:AA:361:G:H5'	2.19	0.42
38:DD:176:ARG:NH1	38:DD:176:ARG:CG	2.81	0.42
35:DA:688:U:C4'	35:DA:1780:A:C2	3.01	0.42
24:AY:395:PRO:HB2	24:AY:397:VAL:HG13	2.01	0.42
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.19	0.42
1:CA:186:C:C2	1:CA:187:C:C5	3.07	0.42
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.19	0.42
35:DA:1941:C:C4	35:DA:1942:C:C4	3.06	0.42
35:DA:729:G:O2'	35:DA:763:G:H4'	2.19	0.42
1:CA:202:U:H5'	1:CA:203:U:H5	1.84	0.42
3:AC:53:ALA:HB1	3:AC:114:PRO:HB2	2.01	0.42
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.84	0.42
35:BA:245:G:O2'	35:BA:246:C:H5'	2.19	0.42
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.34	0.42
35:BA:2839:G:H2'	35:BA:2840:C:H6	1.83	0.42
38:DD:31:LYS:O	38:DD:33:LEU:N	2.51	0.42
1:AA:311:C:H2'	1:AA:312:C:H6	1.84	0.42
35:BA:520:G:H2'	35:BA:521:G:C8	2.53	0.42
11:CK:21:ILE:CD1	11:CK:21:ILE:N	2.82	0.42
35:BA:2604:U:H2'	35:BA:2605:U:H6	1.83	0.42
35:DA:200:U:C2'	35:DA:201:C:H5'	2.46	0.42
4:CD:140:VAL:HG12	4:CD:141:ARG:O	2.19	0.42
43:BJ:118:UNK:N	43:BJ:121:UNK:O	2.52	0.42
1:CA:47:C:H6	1:CA:365:U:H2'	1.84	0.42
32:B7:33:ARG:HH11	32:B7:33:ARG:HB2	1.84	0.42
35:DA:68:G:H2'	35:DA:69:C:H6	1.84	0.42
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.33	0.42
35:DA:1461:G:H2'	35:DA:1462:C:C6	2.53	0.42
22:AW:77:A:N6	35:BA:2422:A:O4'	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.54	0.42
1:AA:556:C:C2'	1:AA:557:G:H5'	2.50	0.42
1:AA:318:G:O2'	1:AA:319:G:H5'	2.19	0.42
4:AD:170:VAL:O	4:AD:171:GLY:C	2.57	0.42
49:BQ:26:TYR:CD1	49:BQ:140:ALA:HB3	2.54	0.42
1:CA:316:G:C6	1:CA:338:A:C6	3.07	0.42
35:BA:1131:G:N3	35:BA:1132:A:C8	2.87	0.42
35:BA:2089:U:O2'	35:BA:2090:G:H5'	2.19	0.42
20:CT:81:LYS:C	20:CT:83:ARG:H	2.23	0.42
8:CH:99:GLU:O	8:CH:100:ILE:C	2.57	0.42
17:AQ:22:LEU:HD13	17:AQ:41:LYS:HG2	2.00	0.42
55:BW:13:SER:HB3	55:BW:16:LYS:HD2	2.00	0.42
32:B7:16:HIS:ND1	35:BA:684:G:OP1	2.51	0.42
1:CA:994:A:H2'	1:CA:994:A:N3	2.33	0.42
35:DA:2460:U:O2	35:DA:2460:U:H2'	2.18	0.42
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.54	0.42
50:BR:13:HIS:O	50:BR:14:SER:C	2.56	0.42
42:DH:154:PRO:C	42:DH:156:ALA:H	2.17	0.42
29:B4:7:PRO:O	29:B4:8:LYS:HD2	2.19	0.42
10:AJ:31:GLY:O	10:AJ:32:ALA:C	2.58	0.42
35:BA:2579:C:H2'	35:BA:2580:U:O4'	2.20	0.42
24:CY:678:GLU:HG2	24:CY:679:VAL:O	2.20	0.42
61:CY:702:FUA:C23	61:CY:702:FUA:C12	2.84	0.42
35:BA:904:C:H2'	35:BA:905:U:C6	2.53	0.42
40:BF:119:ARG:NH1	40:BF:119:ARG:HG2	2.33	0.42
53:DU:53:ARG:CA	53:DU:56:ASP:OD2	2.62	0.42
53:DU:98:LEU:HA	53:DU:101:ARG:O	2.19	0.42
31:B6:26:ASN:O	31:B6:27:LYS:HB2	2.19	0.42
58:DZ:29:TYR:O	58:DZ:30:ASN:HB3	2.19	0.42
35:BA:272(J):C:H5'	35:BA:274:G:OP1	2.18	0.42
41:DG:53:LEU:HD12	41:DG:56:ALA:HB2	2.01	0.42
24:CY:112:GLN:CG	24:CY:115:GLU:HB3	2.48	0.42
24:CY:148:LEU:HD13	24:CY:151:ARG:NH1	2.29	0.42
40:DF:7:TYR:CD2	40:DF:16:GLY:CA	3.00	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CA	2.88	0.42
35:DA:2290:G:H4'	35:DA:2381:C:O2'	2.19	0.42
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.34	0.42
12:CL:18:VAL:O	12:CL:19:ARG:CB	2.67	0.42
24:AY:191:ASP:O	24:AY:266:ASN:ND2	2.52	0.42
58:DZ:145:GLU:CG	58:DZ:146:ILE:H	2.32	0.42
35:BA:1815:A:H1'	35:BA:1817:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:23:PRO:O	48:DP:29:LYS:O	2.37	0.42
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	2.00	0.42
2:CB:82:ARG:NH1	2:CB:82:ARG:HG3	2.33	0.42
36:DB:40:U:H3'	36:DB:41:U:H5''	2.00	0.42
35:BA:2889:C:H2'	35:BA:2891:G:O4'	2.19	0.42
35:BA:2809:A:C2	35:BA:2892:A:N3	2.87	0.42
35:BA:821:A:H2'	35:BA:946:G:H5''	2.00	0.42
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.53	0.42
35:DA:359:A:H3'	35:DA:360:G:C8	2.54	0.42
1:CA:963:G:H21	10:CJ:55:LYS:HD2	1.84	0.42
35:DA:1146:C:H2'	35:DA:1146:C:O2	2.18	0.42
27:B2:33:MET:HG2	27:B2:37:PHE:CE1	2.53	0.42
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	2.00	0.42
35:DA:2820:A:HO2'	35:DA:2821:A:P	2.42	0.42
35:DA:2820:A:H8	39:DE:191:PRO:HB3	1.84	0.42
38:BD:267:SER:C	38:BD:270:ILE:HD11	2.40	0.42
13:AM:91:ARG:CD	13:AM:97:PRO:O	2.67	0.42
54:BV:19:LYS:HG2	54:BV:94:LEU:CB	2.48	0.42
2:AB:238:LEU:O	2:AB:239:VAL:C	2.57	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CE2	2.54	0.42
25:D0:60:PHE:HE2	35:DA:2365:G:C4'	2.25	0.42
1:CA:1399:C:C2	1:CA:1401:G:C5	3.07	0.42
52:BT:2:ASN:O	52:BT:4:GLY:N	2.51	0.42
42:DH:146:ALA:O	42:DH:147:ASN:C	2.57	0.42
1:CA:815:A:H62	1:CA:1509:C:H1'	1.83	0.42
24:CY:509:HIS:O	24:CY:510:VAL:CG2	2.67	0.42
27:D2:35:LEU:HD22	27:D2:50:ILE:CG1	2.49	0.42
40:DF:63:LYS:HA	40:DF:76:GLY:O	2.19	0.42
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	2.00	0.42
35:BA:1541:G:H4'	35:BA:1542:A:O4'	2.19	0.42
40:DF:134:GLY:HA3	40:DF:165:ARG:NH1	2.34	0.42
42:DH:52:VAL:HG12	42:DH:52:VAL:O	2.19	0.42
1:CA:666:G:C2	1:CA:667:G:C8	3.08	0.42
37:BC:134:PRO:HB2	37:BC:135:ARG:HD2	2.01	0.42
50:DR:41:ALA:O	50:DR:43:GLU:N	2.53	0.42
39:DE:82:ARG:HG3	39:DE:82:ARG:HH11	1.84	0.42
1:CA:1150:U:O4	1:CA:1151:A:N6	2.52	0.42
35:BA:2776:A:C6	35:BA:2782:G:H1'	2.53	0.42
9:AI:105:ASP:OD1	9:AI:107:ARG:HD3	2.18	0.42
40:BF:20:LEU:HD13	40:BF:203:GLN:OE1	2.18	0.42
1:CA:193:C:C2	1:CA:194:C:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:50:VAL:HG13	55:BW:51:LEU:N	2.34	0.42
24:CY:69:VAL:CG2	24:CY:80:ASN:HB3	2.49	0.42
1:AA:1371:G:C5	1:AA:1372:U:C5	3.07	0.42
7:CG:144:MET:O	7:CG:147:ALA:HB3	2.19	0.42
49:DQ:35:VAL:HG23	49:DQ:101:ARG:C	2.39	0.42
9:CI:46:ALA:C	9:CI:47:LEU:HD12	2.39	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	2.01	0.42
36:BB:81:G:O6	36:BB:96:U:O2	2.37	0.42
15:AO:43:LEU:C	15:AO:45:VAL:H	2.21	0.42
58:DZ:77:ASP:C	58:DZ:78:LYS:HG2	2.40	0.42
35:BA:2428:G:H5'	35:BA:2429:G:P	2.59	0.42
35:BA:88:G:OP1	35:BA:90:U:C5	2.63	0.42
20:AT:69:GLY:O	20:AT:73:HIS:NE2	2.52	0.42
13:CM:54:VAL:C	13:CM:56:LEU:N	2.72	0.42
1:AA:333:G:O2'	1:AA:334:C:H5'	2.18	0.42
42:BH:76:VAL:C	42:BH:78:GLY:H	2.21	0.42
43:BJ:74:UNK:O	43:BJ:76:UNK:N	2.52	0.42
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.81	0.42
49:BQ:76:LYS:HE2	49:BQ:77:LYS:O	2.18	0.42
32:D7:46:VAL:HG12	32:D7:47:ARG:H	1.82	0.42
35:BA:2328:A:O5'	35:BA:2328:A:H8	2.02	0.42
24:CY:539:ILE:CA	24:CY:542:VAL:HG12	2.48	0.42
37:DC:65:LEU:HD21	37:DC:162:ILE:HD11	2.00	0.42
24:CY:538:TYR:HD1	24:CY:579:GLU:HA	1.84	0.42
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.84	0.42
44:DK:86:LYS:HZ3	44:DK:86:LYS:HB3	1.84	0.42
24:CY:309:LEU:HB3	24:CY:391:GLY:N	2.34	0.42
17:AQ:53:LEU:HD23	17:AQ:54:GLY:N	2.34	0.42
7:CG:61:VAL:O	7:CG:64:GLN:HB3	2.19	0.42
35:DA:37:C:H2'	35:DA:37:C:O2	2.18	0.42
24:AY:140:ASP:OD2	24:AY:265:LYS:HE2	2.19	0.42
15:AO:64:ARG:CG	15:AO:64:ARG:HH11	2.32	0.42
35:BA:2511:U:H4'	39:BE:123:ALA:HB3	2.00	0.42
2:AB:178:ARG:HD2	8:AH:71:GLY:C	2.40	0.42
35:DA:2336:A:H3'	35:DA:2337:G:H8	1.84	0.42
35:DA:2861:G:C4	35:DA:2862:G:C8	3.07	0.42
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.49	0.42
4:AD:132:ARG:HD2	4:AD:132:ARG:C	2.39	0.42
35:BA:772:C:O2'	35:BA:773:U:H5'	2.20	0.42
35:BA:773:U:H2'	35:BA:774:A:H5'	2.00	0.42
35:BA:685:A:C6	35:BA:774:A:C2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:19:VAL:HG23	8:AH:21:LYS:HB2	2.01	0.42
35:BA:1131:G:C2	35:BA:1132:A:C5	3.07	0.42
9:CI:51:ARG:HG3	9:CI:56:LEU:HD12	2.01	0.42
13:CM:72:ALA:O	13:CM:75:ALA:N	2.53	0.42
49:BQ:63:LYS:NZ	58:BZ:175:VAL:HG21	2.34	0.42
1:CA:582:U:OP1	15:CO:68:ARG:NH2	2.52	0.42
35:BA:1932:A:H2'	35:BA:1933:G:O4'	2.19	0.42
47:DO:98:VAL:CG2	47:DO:118:ALA:HA	2.49	0.42
1:CA:1386:G:O2'	1:CA:1387:G:H5'	2.19	0.42
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.19	0.42
1:AA:605:U:O2'	1:AA:606:G:H5'	2.19	0.42
22:CV:50:U:H2'	22:CV:51:C:C6	2.54	0.42
42:DH:141:VAL:O	42:DH:142:GLY:C	2.57	0.42
35:BA:2531:A:OP1	42:BH:177:GLY:O	2.38	0.42
40:DF:34:TRP:CB	48:DP:10:PRO:HB2	2.36	0.42
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.20	0.42
1:AA:541:G:O2'	1:AA:542:G:H5'	2.19	0.42
24:AY:252:ASP:HB3	24:AY:254:LYS:NZ	2.34	0.42
24:AY:21:ILE:HG23	24:AY:86:GLY:O	2.19	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:HB2	2.18	0.42
35:DA:1710:C:H2'	35:DA:1711:C:C6	2.53	0.42
31:B6:9:LEU:HD21	31:B6:26:ASN:HD22	1.83	0.42
1:CA:1221:G:OP1	1:CA:1320:C:N4	2.52	0.42
57:BY:39:VAL:O	57:BY:40:GLU:CD	2.57	0.42
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.35	0.42
35:DA:615:G:OP2	40:DF:40:GLN:NE2	2.47	0.42
48:DP:66:GLY:O	48:DP:67:MET:CB	2.67	0.42
29:D4:5:ILE:HD13	29:D4:6:HIS:CD2	2.54	0.42
35:BA:322:A:C3'	40:BF:169:ASN:HD21	2.32	0.42
57:BY:84:ARG:HG2	57:BY:85:VAL:H	1.84	0.42
50:DR:85:PRO:C	50:DR:87:TYR:N	2.73	0.42
24:CY:181:LEU:HD21	24:CY:243:VAL:CG2	2.37	0.42
37:DC:126:SER:C	37:DC:128:LEU:H	2.23	0.42
37:DC:138:LEU:O	37:DC:139:PRO:C	2.57	0.42
35:DA:805:G:H4'	35:DA:806:C:OP2	2.20	0.42
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.87	0.42
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.83	0.42
27:D2:14:ARG:HD3	27:D2:63:VAL:CG2	2.49	0.42
35:DA:26:G:N1	35:DA:27:G:N2	2.67	0.42
44:DK:112:MET:HE1	44:DK:120:LEU:HD21	2.00	0.42
24:CY:342:TYR:O	24:CY:389:LEU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:267:C:H2'	1:AA:268:C:C6	2.48	0.42
35:DA:143(A):C:H2'	35:DA:143(A):C:O2	2.18	0.42
35:BA:947:G:N3	35:BA:984:A:H2	2.18	0.42
1:CA:963:G:HO2'	10:CJ:54:PHE:HZ	1.65	0.42
35:BA:1019:U:N3	35:BA:1142(A):A:N6	2.66	0.42
1:CA:1054:C:C2'	1:CA:1054:C:O2	2.68	0.42
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.87	0.42
52:DT:89:VAL:C	52:DT:91:ARG:N	2.72	0.42
29:D4:29:PRO:HB2	29:D4:30:GLU:OE1	2.19	0.42
27:B2:41:ILE:HD11	27:B2:44:LEU:CD1	2.38	0.42
3:AC:87:LEU:O	3:AC:90:GLU:N	2.53	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.17	0.42
24:AY:13:ARG:O	24:AY:79:ILE:HA	2.20	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CZ	2.54	0.42
47:BO:69:ILE:CD1	47:BO:77:ILE:HG23	2.36	0.42
5:CE:6:PHE:N	5:CE:6:PHE:CD1	2.87	0.42
13:CM:91:ARG:NH2	19:CS:81:ARG:NH2	2.67	0.42
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.54	0.42
3:CC:40:ARG:NH1	3:CC:40:ARG:HG3	2.34	0.42
47:BO:19:ILE:HD12	47:BO:41:ALA:CB	2.48	0.42
52:BT:8:LYS:O	52:BT:10:VAL:N	2.51	0.42
44:DK:10:LEU:HD11	44:DK:27:LEU:CD1	2.49	0.42
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.63	0.42
1:CA:1509:C:C2'	1:CA:1510:U:H5'	2.49	0.42
24:AY:152:THR:C	24:AY:154:GLN:H	2.21	0.42
35:DA:1947:C:C3'	35:DA:1948:G:H5''	2.50	0.42
1:AA:1277:C:H3'	1:AA:1277:C:C6	2.54	0.42
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.20	0.42
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.67	0.42
9:CI:84:ALA:O	9:CI:86:VAL:N	2.52	0.42
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD23	2.01	0.42
1:AA:182:U:O2	1:AA:182:U:H2'	2.19	0.42
39:BE:82:ARG:O	39:BE:83:ASP:C	2.57	0.42
53:DU:21:ALA:O	53:DU:22:LYS:C	2.57	0.42
9:CI:104:ARG:O	9:CI:105:ASP:N	2.52	0.42
13:AM:99:ARG:O	13:AM:100:GLY:O	2.37	0.42
51:DS:47:THR:HG22	51:DS:49:VAL:O	2.19	0.42
20:CT:89:ARG:HD2	20:CT:104:LEU:CD1	2.49	0.42
10:CJ:40:LEU:CB	10:CJ:41:PRO:HD2	2.49	0.42
35:DA:1186:G:H2'	35:DA:1187:G:H5'	2.01	0.42
4:AD:58:LEU:C	4:AD:58:LEU:CD2	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:316:ILE:HD13	24:AY:316:ILE:N	2.34	0.42
20:AT:43:LEU:O	20:AT:44:ALA:C	2.57	0.42
35:BA:2122:U:H4'	37:BC:167:ASP:HB3	2.01	0.42
35:DA:653:A:H5'	35:DA:654:A:P	2.58	0.42
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.85	0.42
52:BT:45:PHE:HE2	52:BT:74:ARG:HB2	1.81	0.42
26:D1:87:PRO:HG2	26:D1:88:LYS:H	1.85	0.42
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.54	0.42
3:AC:110:ASN:HD21	3:AC:140:ARG:HB3	1.84	0.42
42:BH:37:VAL:HG12	42:BH:38:SER:H	1.80	0.42
46:DN:56:ASN:HA	46:DN:125:GLY:N	2.34	0.42
24:CY:553:GLY:H	24:CY:557:GLY:C	2.22	0.42
9:AI:42:ARG:O	9:AI:44:VAL:N	2.52	0.42
39:DE:26:ILE:CG2	39:DE:196:VAL:HG21	2.47	0.42
48:DP:121:LYS:HB2	48:DP:123:LEU:HD21	2.01	0.42
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.18	0.42
41:BG:10:LYS:O	41:BG:14:GLU:HB2	2.19	0.42
52:DT:35:LYS:HZ3	52:DT:41:ARG:HH11	1.64	0.42
24:CY:541:ALA:CB	24:CY:579:GLU:HG2	2.47	0.42
24:AY:456:GLU:HB2	24:AY:657:THR:HG21	2.01	0.42
10:AJ:29:ARG:CG	10:AJ:29:ARG:HH11	2.30	0.42
42:DH:94:TYR:N	42:DH:94:TYR:HD1	2.17	0.42
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.54	0.42
1:AA:1061:G:H1'	10:AJ:56:HIS:CE1	2.53	0.42
58:BZ:127:LYS:HZ3	58:BZ:164:ALA:HB2	1.84	0.42
1:AA:893:C:O2'	1:AA:894:G:H5'	2.20	0.42
36:DB:105:A:OP1	58:DZ:72:ARG:NH1	2.51	0.42
47:DO:10:VAL:HG21	47:DO:16:ALA:O	2.20	0.42
1:AA:452:A:H5'	16:AP:72:ARG:NH2	2.34	0.42
35:DA:329:G:H22	57:DY:19:LYS:HE3	1.83	0.42
24:CY:302:HIS:O	24:CY:304:ASP:N	2.49	0.42
22:CW:29:C:O2'	22:CW:30:G:H5'	2.19	0.42
35:DA:1415:U:H3	35:DA:1587:A:H61	1.66	0.42
8:AH:74:PRO:O	8:AH:75:ARG:C	2.57	0.42
35:BA:2684:U:H2'	35:BA:2685:G:O4'	2.19	0.42
38:DD:85:ASP:OD2	38:DD:88:ARG:NH1	2.50	0.42
35:DA:1530:C:H2'	35:DA:1531:C:H6	1.83	0.42
44:BK:48:MET:HB2	44:BK:49:GLY:H	1.69	0.42
9:AI:90:PRO:HG2	9:AI:91:ASP:H	1.84	0.42
43:DJ:45:UNK:C	43:DJ:47:UNK:H	2.31	0.42
1:CA:767:A:H2'	1:CA:768:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:594:U:H2'	35:DA:595:C:C6	2.54	0.42
41:BG:97:ASP:O	41:BG:101:ILE:CB	2.68	0.42
41:BG:56:ALA:HB1	41:BG:153:ARG:NH2	2.35	0.42
41:BG:96:ARG:O	41:BG:97:ASP:CB	2.68	0.42
35:BA:2012:G:O3'	55:BW:96:ILE:HG13	2.19	0.42
22:AW:37:U:H2'	22:AW:38:A:H8	1.84	0.42
35:BA:611:C:H2'	35:BA:612:C:C6	2.54	0.42
24:AY:90:PHE:HB2	24:AY:454:MET:CE	2.49	0.42
46:DN:2:LYS:HE2	53:DU:95:LEU:HD21	2.02	0.42
46:BN:4:TYR:O	46:BN:5:VAL:C	2.57	0.42
53:BU:59:ARG:NH1	53:BU:59:ARG:HG2	2.29	0.42
56:DX:27:THR:HB	56:DX:80:ILE:CG2	2.45	0.42
57:DY:86:ARG:CB	57:DY:88:LYS:HZ1	2.30	0.42
40:DF:184:TYR:O	40:DF:188:ARG:HG2	2.19	0.42
31:D6:11:LEU:HD13	31:D6:11:LEU:C	2.39	0.42
33:D8:56:GLU:O	33:D8:59:LYS:CE	2.62	0.42
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	2.19	0.42
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.48	0.42
52:BT:70:VAL:HG12	52:BT:71:GLY:N	2.34	0.42
38:BD:245:PRO:O	38:BD:246:PRO:O	2.37	0.42
3:CC:78:GLY:CA	3:CC:83:ARG:HB3	2.50	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CB	2.96	0.42
35:DA:2345:G:N7	35:DA:2372:G:C2	2.87	0.42
50:BR:82:GLU:O	50:BR:85:PRO:HD2	2.19	0.42
46:DN:15:LEU:HD13	46:DN:15:LEU:C	2.39	0.42
35:BA:662:G:P	48:BP:18:ARG:HD2	2.59	0.42
28:B3:31:LEU:CD1	28:B3:32:GLN:HG2	2.33	0.42
35:BA:512:G:O2'	35:BA:513:A:H8	2.02	0.42
2:CB:142:LEU:O	2:CB:146:GLN:HB2	2.19	0.42
35:DA:1819:A:H4'	35:DA:1820:U:H5''	2.00	0.42
35:DA:1821:A:H2'	35:DA:1822:G:C8	2.51	0.42
35:DA:2206:G:H21	35:DA:2207:G:H4'	1.84	0.42
39:DE:51:PHE:HD1	39:DE:52:LEU:HD12	1.83	0.42
39:DE:51:PHE:O	39:DE:74:PRO:HB3	2.20	0.42
39:DE:50:GLY:CA	39:DE:74:PRO:HG3	2.50	0.42
35:DA:1349:A:N6	35:DA:1598:C:N4	2.67	0.42
35:BA:143:G:H2'	35:BA:143(A):C:H6	1.84	0.42
1:AA:394:G:H2'	1:AA:395:C:C6	2.55	0.42
58:DZ:14:LYS:O	58:DZ:18:LEU:CD1	2.67	0.42
50:BR:28:LEU:HA	50:BR:34:ILE:CG1	2.49	0.42
1:AA:323:U:H5'	20:AT:23:ARG:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:24:TRP:HA	2:AB:190:THR:O	2.19	0.42
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.60	0.42
5:CE:33:VAL:HG12	5:CE:112:LEU:HD12	2.01	0.42
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.40	0.42
35:BA:2103:C:N4	35:BA:2186:G:H1	2.18	0.42
1:CA:690:G:H2'	1:CA:691:G:O4'	2.20	0.42
35:DA:1952:A:C2	47:DO:22:ILE:HG23	2.55	0.42
24:AY:416:LYS:CD	24:AY:417:THR:N	2.67	0.42
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CG	2.49	0.42
52:DT:102:ILE:O	52:DT:103:ARG:C	2.57	0.42
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	2.19	0.42
29:B4:22:ILE:HG22	29:B4:24:THR:HG23	2.00	0.42
19:CS:9:VAL:HG13	19:CS:39:THR:HB	2.02	0.42
9:CI:95:LYS:NZ	9:CI:96:LEU:CD1	2.76	0.42
35:DA:1541:G:H4'	35:DA:1542:A:O4'	2.19	0.42
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.20	0.42
1:AA:437:U:H2'	1:AA:438:G:O4'	2.20	0.42
58:BZ:52:SER:OG	58:BZ:53:ILE:N	2.52	0.42
34:D9:29:ASN:ND2	34:D9:32:HIS:CG	2.88	0.42
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.42	0.42
39:BE:45:THR:O	39:BE:46:ALA:CB	2.66	0.42
36:DB:114:C:H2'	36:DB:115:G:H8	1.84	0.42
51:DS:49:VAL:CG1	51:DS:50:SER:N	2.81	0.42
35:DA:1052:C:C6	35:DA:1052:C:C3'	3.03	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.53	0.42
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.37	0.42
35:BA:893:C:H2'	35:BA:894:C:C6	2.54	0.42
35:BA:2665:A:H2'	35:BA:2666:C:O4'	2.19	0.42
35:DA:953:A:O2'	35:DA:954:G:H5'	2.20	0.42
1:AA:1074:G:H4'	2:AB:104:ASN:HB2	2.01	0.42
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.45	0.42
1:AA:1351:U:H5'	7:AG:33:ASP:OD1	2.20	0.42
35:BA:1682:G:O2'	35:BA:1683:C:H5'	2.19	0.42
55:DW:68:ARG:HA	55:DW:110:LYS:CG	2.48	0.42
1:AA:1090:U:H4'	1:AA:1170:A:H2	1.85	0.42
11:AK:120:ARG:NH1	11:AK:126:ARG:NE	2.67	0.42
42:BH:94:TYR:N	42:BH:94:TYR:HD1	2.17	0.42
22:AW:73:A:H2'	22:AW:74:A:O4'	2.19	0.42
28:B3:35:ARG:HD3	28:B3:37:LEU:HD21	2.02	0.42
22:AV:61:C:H2'	22:AV:62:C:H6	1.85	0.42
32:D7:4:THR:O	35:DA:687:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:539:A:OP2	12:AL:115:LYS:HE3	2.19	0.42
24:CY:293:THR:OG1	24:CY:297:GLU:HG2	2.20	0.42
35:DA:2428:G:C5'	35:DA:2429:G:OP1	2.66	0.42
1:CA:658:G:H2'	1:CA:659:U:H6	1.83	0.42
24:CY:400:GLU:O	24:CY:402:ILE:CD1	2.64	0.42
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	2.01	0.42
1:CA:189(B):C:C2	1:CA:189(J):G:C2	3.07	0.42
35:BA:1209:G:H21	35:BA:1210:A:H62	1.66	0.42
35:BA:1491:G:N3	35:BA:1491:G:H2'	2.34	0.42
35:DA:1669:A:OP2	35:DA:2550:G:OP1	2.38	0.42
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.86	0.42
58:BZ:105:VAL:CG1	58:BZ:105:VAL:O	2.66	0.42
20:CT:61:SER:O	20:CT:63:ILE:N	2.52	0.42
41:DG:13:GLU:O	41:DG:14:GLU:HB2	2.20	0.42
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.34	0.42
24:AY:456:GLU:O	24:AY:457:LEU:C	2.58	0.42
1:AA:1314:C:N4	19:AS:4:SER:N	2.67	0.42
24:CY:308:PRO:O	24:CY:332:SER:CB	2.65	0.42
1:AA:505:G:C6	1:AA:535:A:C2	3.07	0.42
42:DH:94:TYR:O	42:DH:95:ARG:HB3	2.19	0.42
6:CF:12:PRO:C	6:CF:14:LEU:H	2.23	0.42
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	2.34	0.42
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.54	0.42
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.18	0.42
1:CA:96:U:O2'	1:CA:97:G:H8	2.02	0.42
46:BN:34:LEU:HD13	46:BN:34:LEU:HA	1.90	0.42
3:CC:67:THR:HA	3:CC:102:ASN:HB2	2.01	0.42
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.54	0.42
37:BC:76:LEU:HD21	37:BC:104:ILE:CD1	2.48	0.42
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.20	0.42
49:DQ:135:ASP:CG	58:DZ:49:ARG:NH1	2.73	0.42
24:CY:625:ASN:C	24:CY:627:ARG:N	2.73	0.42
1:CA:622:A:C8	1:CA:623:C:C6	3.07	0.42
36:DB:74:U:C2'	36:DB:75:G:H5'	2.49	0.42
35:DA:2134:A:H1'	35:DA:2158:A:C2	2.54	0.42
24:CY:527:ASN:ND2	24:CY:527:ASN:C	2.73	0.42
47:BO:14:THR:HG21	47:BO:86:ILE:HD13	2.02	0.42
35:BA:2154:G:C2	35:BA:2155:G:C4	3.08	0.42
3:AC:147:LYS:O	3:AC:203:PHE:HD2	2.02	0.42
46:DN:38:HIS:C	53:DU:67:ALA:HB1	2.39	0.42
24:AY:308:PRO:O	24:AY:333:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:25:ASP:HA	49:DQ:100:GLY:O	2.18	0.42
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	2.19	0.42
43:BJ:42:UNK:HA	43:BJ:45:UNK:CB	2.49	0.42
38:BD:96:HIS:CE1	38:BD:102:LYS:HE2	2.54	0.42
37:BC:196:ALA:O	37:BC:199:ALA:HB3	2.19	0.42
52:BT:67:SER:O	52:BT:68:TYR:HB2	2.20	0.42
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	2.19	0.42
22:AV:76:A:H4'	22:AV:76:A:OP1	2.19	0.42
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.19	0.42
51:BS:48:LEU:N	51:BS:48:LEU:HD12	2.34	0.42
25:D0:28:GLY:O	35:DA:923:C:O2'	2.31	0.42
36:BB:40:U:H3'	36:BB:41:U:H5''	2.00	0.42
41:BG:53:LEU:HD12	41:BG:56:ALA:CB	2.50	0.42
41:BG:39:ILE:HG12	41:BG:92:VAL:HG22	2.01	0.42
10:AJ:30:SER:HA	10:AJ:80:LYS:CE	2.49	0.42
35:DA:1657:C:H4'	39:DE:133:LYS:HG2	2.02	0.42
24:AY:122:TRP:O	24:AY:124:GLN:N	2.51	0.42
24:AY:238:THR:HG22	24:AY:241:GLU:CB	2.49	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:N	2.52	0.42
48:BP:5:ASP:OD2	48:BP:9:ASN:ND2	2.51	0.42
53:DU:83:LEU:CD1	53:DU:113:ALA:HB2	2.49	0.42
33:B8:56:GLU:O	33:B8:59:LYS:CE	2.65	0.42
57:DY:88:LYS:HE2	57:DY:93:GLY:HA3	2.00	0.42
40:DF:118:ALA:O	40:DF:121:GLY:N	2.51	0.42
40:DF:198:ALA:HA	40:DF:201:VAL:HG12	2.00	0.42
33:D8:32:LEU:H	33:D8:32:LEU:CD2	2.32	0.42
30:D5:44:THR:CG2	30:D5:45:VAL:N	2.79	0.42
35:DA:1502:C:H2'	35:DA:1503:U:C6	2.54	0.42
35:BA:1453:U:OP1	50:BR:63:ARG:NH2	2.52	0.42
50:BR:82:GLU:O	50:BR:84:ALA:N	2.52	0.42
22:CW:20:G:C4	35:DA:2169:A:C2	3.08	0.42
35:BA:1814:G:C4'	38:BD:51:VAL:HG21	2.49	0.42
35:DA:1858:G:OP2	35:DA:1858:G:H8	2.03	0.42
48:DP:98:GLU:H	48:DP:101:VAL:HG13	1.83	0.42
48:BP:144:GLU:N	48:BP:145:PRO:HD3	2.34	0.42
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.17	0.42
44:BK:103:GLN:C	44:BK:106:GLU:HG2	2.39	0.42
35:DA:1493:C:H4'	35:DA:1494:A:OP2	2.19	0.42
39:BE:31:CYS:HA	39:BE:32:PRO:HD3	1.83	0.42
39:BE:50:GLY:CA	39:BE:74:PRO:HG3	2.49	0.42
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2713:A:OP2	35:BA:2713:A:H4'	2.19	0.42
58:DZ:14:LYS:HB2	58:DZ:17:ALA:HB3	2.01	0.42
35:BA:2849:U:H4'	35:BA:2868:A:C2	2.54	0.42
49:BQ:70:PRO:HA	49:BQ:95:ALA:HB2	2.01	0.42
35:DA:1062:G:H22	35:DA:1077:A:H1'	1.85	0.42
2:AB:17:PHE:O	2:AB:18:GLY:O	2.36	0.42
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.84	0.42
24:AY:335:LEU:CD2	24:AY:355:LEU:HD11	2.49	0.42
24:AY:97:SER:O	24:AY:100:VAL:CG1	2.67	0.42
25:D0:37:LEU:N	25:D0:59:LEU:O	2.49	0.42
42:BH:43:VAL:CG1	42:BH:51:ARG:O	2.68	0.42
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.85	0.42
26:D1:84:GLY:O	26:D1:86:SER:OG	2.35	0.42
42:DH:70:THR:C	42:DH:72:ILE:N	2.72	0.42
42:DH:83:TYR:HB3	42:DH:134:SER:CA	2.40	0.42
24:CY:510:VAL:HG13	24:CY:569:ASP:O	2.19	0.42
35:BA:1609:A:H1'	35:BA:1616:A:C1'	2.49	0.42
58:BZ:109:ALA:O	58:BZ:111:VAL:N	2.52	0.42
58:BZ:111:VAL:O	58:BZ:112:ARG:CB	2.68	0.42
9:AI:84:ALA:O	9:AI:86:VAL:N	2.52	0.42
35:BA:1539:G:N1	35:BA:1540:U:O2	2.52	0.42
38:DD:155:LEU:CD1	38:DD:155:LEU:N	2.82	0.42
24:CY:31:ARG:HA	24:CY:31:ARG:HD3	1.84	0.42
4:CD:91:SER:O	4:CD:92:VAL:C	2.56	0.42
35:BA:1478:G:O2'	35:BA:1558:A:C2	2.72	0.42
1:CA:178:C:C2'	1:CA:179:A:H5'	2.49	0.42
1:AA:309:G:H1'	1:AA:608:A:H2	1.81	0.42
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	2.01	0.42
35:DA:1276:A:C1'	50:DR:16:HIS:HE1	2.31	0.42
50:DR:12:ARG:CG	50:DR:12:ARG:NH1	2.81	0.42
56:DX:63:LYS:HB3	56:DX:72:LYS:HG2	2.01	0.42
9:CI:43:ALA:O	9:CI:45:ALA:N	2.53	0.42
1:CA:1000:U:H6	1:CA:1000:U:H3'	1.84	0.42
12:CL:105:TYR:CD2	12:CL:105:TYR:N	2.87	0.42
11:AK:126:ARG:O	11:AK:127:LYS:C	2.57	0.42
24:CY:351:ARG:O	24:CY:351:ARG:HG3	2.18	0.42
42:BH:94:TYR:O	42:BH:95:ARG:HB3	2.18	0.42
35:BA:799:G:C3'	35:BA:800:A:H5''	2.46	0.42
35:BA:1430:C:H42	35:BA:1563:G:H1	1.67	0.42
35:DA:2794:C:N4	35:DA:2801(A):A:H61	2.14	0.42
48:DP:110:TYR:O	48:DP:111:ARG:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:144:THR:C	5:AE:146:ALA:N	2.70	0.42
9:AI:42:ARG:O	9:AI:43:ALA:C	2.57	0.42
28:B3:6:VAL:HG23	28:B3:6:VAL:O	2.18	0.42
35:BA:483:A:C2	35:BA:484:C:C1'	3.03	0.42
32:B7:46:VAL:CG1	32:B7:47:ARG:H	2.33	0.42
35:BA:1342:A:C2	35:BA:1345:C:C5	3.08	0.42
56:BX:77:LYS:O	56:BX:77:LYS:HG2	2.19	0.42
55:DW:72:LYS:H	55:DW:107:LEU:HA	1.85	0.42
37:DC:225:ILE:C	37:DC:225:ILE:HD12	2.39	0.42
35:DA:2078:C:C4	35:DA:2079:U:C4	3.07	0.42
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.55	0.42
24:CY:685:GLU:HA	24:CY:688:ILE:HD13	2.02	0.42
35:DA:987:G:H2'	35:DA:988:A:O4'	2.19	0.42
37:BC:225:ILE:C	37:BC:225:ILE:HD12	2.40	0.42
7:AG:65:ALA:HB2	7:AG:128:ALA:HB2	2.02	0.42
1:AA:312:C:H2'	1:AA:313:A:C8	2.55	0.42
36:BB:18:G:H2'	36:BB:19:G:C8	2.51	0.42
43:DJ:35:UNK:C	43:DJ:37:UNK:H	2.32	0.42
35:DA:918:A:H1'	36:DB:80:U:O2'	2.19	0.42
38:BD:112:GLN:HB2	38:BD:115:GLN:HE21	1.84	0.42
37:BC:11:LEU:C	37:BC:13:GLU:H	2.22	0.42
1:AA:961:U:OP2	1:AA:1223:C:C4'	2.67	0.42
43:DJ:32:UNK:C	43:DJ:33:UNK:O	2.67	0.42
55:BW:79:GLY:C	55:BW:100:THR:CG2	2.87	0.42
35:DA:1635:G:H2'	35:DA:1636:C:H6	1.84	0.42
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.54	0.42
35:BA:1433:U:H1'	35:BA:1561:G:N2	2.34	0.42
36:DB:105:A:P	58:DZ:72:ARG:HH12	2.42	0.42
1:CA:555:C:H2'	1:CA:556:C:H6	1.84	0.42
35:DA:1433:U:H1'	35:DA:1561:G:N2	2.34	0.42
38:DD:4:LYS:NZ	38:DD:20:ASP:HA	2.34	0.42
35:DA:86:C:H4'	35:DA:104:U:O2	2.19	0.42
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.49	0.42
24:CY:610:VAL:CG2	24:CY:643:ILE:HB	2.49	0.42
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.85	0.42
27:D2:27:GLU:O	27:D2:28:LYS:C	2.58	0.42
43:DJ:95:UNK:O	43:DJ:97:UNK:N	2.52	0.42
35:DA:271(M):G:C2'	35:DA:271(N):U:H5''	2.49	0.42
25:B0:28:GLY:O	35:BA:923:C:O2'	2.34	0.42
38:DD:85:ASP:CG	38:DD:88:ARG:HG2	2.40	0.42
1:CA:617:G:H4'	16:CP:44:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:562:U:C4	35:BA:2036:C:H1'	2.55	0.42
35:DA:1632:A:C5	35:DA:1633:G:C6	3.08	0.42
17:CQ:51:TYR:CZ	17:CQ:73:VAL:HG11	2.54	0.42
35:DA:654(B):C:H2'	35:DA:654(C):G:C8	2.55	0.42
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.54	0.42
35:DA:975:C:H4'	35:DA:975:C:OP2	2.19	0.42
55:DW:61:ASN:HA	55:DW:61:ASN:HD22	1.62	0.42
35:BA:1960:A:H8	35:BA:1960:A:H5"	1.85	0.42
24:CY:268:GLY:HA2	24:CY:271:LEU:HD12	2.02	0.42
24:CY:409:ILE:HD13	24:CY:409:ILE:HA	1.82	0.42
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.18	0.42
35:DA:2578:G:N2	35:DA:2579:C:C2	2.88	0.42
24:AY:260:LEU:O	24:AY:268:GLY:HA3	2.19	0.42
61:AY:702:FUA:H323	61:AY:702:FUA:C15	2.49	0.42
31:B6:11:LEU:CB	31:B6:26:ASN:HD21	2.32	0.42
31:B6:8:LYS:HZ1	35:BA:2285:C:H5	1.58	0.42
33:B8:37:SER:O	33:B8:38:GLY:C	2.56	0.42
58:DZ:9:TYR:HB3	58:DZ:35:ARG:NH2	2.33	0.42
19:CS:35:SER:C	19:CS:37:ARG:H	2.22	0.42
40:DF:181:LEU:O	40:DF:205:ARG:NH1	2.53	0.42
40:DF:124:LEU:CD2	40:DF:191:ARG:HH21	2.32	0.42
36:DB:42:C:C5'	41:DG:67:LYS:HD2	2.49	0.42
41:DG:39:ILE:HD11	41:DG:92:VAL:CG2	2.50	0.42
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.49	0.42
37:DC:115:VAL:HA	37:DC:145:THR:CG2	2.48	0.42
37:DC:132:LEU:HB3	37:DC:137:LEU:C	2.40	0.42
5:CE:142:LEU:O	5:CE:143:ARG:CD	2.67	0.42
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.41	0.42
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.20	0.42
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.67	0.42
44:DK:93:ARG:HB2	58:DZ:112:ARG:NH2	2.35	0.42
35:DA:1803:A:C8	35:DA:1804:C:C5	3.07	0.42
44:DK:100:THR:CA	44:DK:139:VAL:HB	2.43	0.42
35:BA:27:G:H1'	35:BA:513:A:H62	1.84	0.42
35:DA:1782:C:O5'	35:DA:1782:C:H6	2.02	0.42
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.54	0.42
35:BA:1858:G:H8	35:BA:1858:G:OP2	2.02	0.42
46:BN:130:HIS:O	46:BN:130:HIS:CG	2.73	0.42
40:BF:83:PHE:O	40:BF:84:VAL:C	2.57	0.42
39:DE:56:PRO:O	39:DE:57:LYS:O	2.36	0.42
35:BA:2206:G:H21	35:BA:2207:G:H4'	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:74:ALA:HB2	51:DS:101:LEU:HD22	2.01	0.42
35:DA:1142(A):A:C6	35:DA:1144:G:C5	3.07	0.42
1:CA:322:C:H41	1:CA:328:C:H6	1.66	0.42
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.68	0.42
24:AY:329:ARG:HG3	24:AY:331:TYR:CZ	2.54	0.42
30:B5:42:PRO:O	30:B5:43:HIS:HB2	2.20	0.42
5:CE:7:GLU:HB3	5:CE:35:GLY:O	2.20	0.42
25:D0:49:LYS:HG3	25:D0:80:HIS:ND1	2.34	0.42
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.19	0.42
17:CQ:52:LYS:N	17:CQ:52:LYS:HD2	2.20	0.42
26:D1:53:VAL:HG11	26:D1:90:ILE:HG21	2.02	0.42
22:CW:73:A:C2'	22:CW:74:A:O5'	2.68	0.42
13:CM:19:LEU:CD2	13:CM:19:LEU:H	2.32	0.42
25:B0:51:VAL:HG12	25:B0:59:LEU:HD22	2.02	0.42
44:BK:93:ARG:HD2	44:BK:93:ARG:O	2.20	0.42
13:AM:19:LEU:H	13:AM:19:LEU:CD2	2.32	0.42
35:BA:2126:A:H1'	35:BA:2127:G:O4'	2.20	0.42
27:B2:47:ASN:O	27:B2:49:LYS:N	2.53	0.42
19:AS:9:VAL:C	19:AS:11:VAL:N	2.73	0.42
35:DA:1478:G:O2'	35:DA:1558:A:C2	2.72	0.42
9:CI:11:LYS:O	9:CI:12:GLU:HB2	2.20	0.42
46:BN:35:ARG:HB3	46:BN:42:TRP:CZ3	2.55	0.42
1:AA:1122:U:H2'	1:AA:1123:A:H5'	2.01	0.42
7:CG:153:HIS:CE1	11:CK:58:PRO:HD2	2.55	0.42
35:DA:2147:G:H2'	35:DA:2148:G:C4'	2.50	0.42
35:BA:294:A:N6	35:BA:345:A:H1'	2.35	0.42
37:DC:102:GLN:O	37:DC:105:LEU:N	2.53	0.42
35:DA:817:C:O2'	35:DA:839:U:OP1	2.37	0.42
24:CY:15:ILE:O	24:CY:81:ILE:HG23	2.20	0.42
42:BH:18:GLU:CB	42:BH:25:LYS:HB2	2.43	0.42
42:DH:103:LEU:HD12	42:DH:104:GLU:N	2.35	0.42
24:AY:442:THR:HG23	24:AY:447:GLY:O	2.19	0.42
47:BO:31:LYS:HB3	47:BO:32:TYR:CE1	2.54	0.42
32:B7:27:GLY:HA2	32:B7:30:VAL:CG2	2.50	0.42
35:BA:1265:A:H5'	35:BA:1267:U:C1'	2.46	0.42
35:DA:696:G:C2	35:DA:767:U:O2	2.73	0.42
1:CA:356:A:H2'	1:CA:357:G:H8	1.85	0.42
35:DA:2033:A:O2'	35:DA:2034:U:P	2.78	0.42
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.44	0.42
3:CC:137:ALA:HA	3:CC:140:ARG:HH22	1.83	0.42
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:117:THR:O	37:BC:120:VAL:HG22	2.19	0.42
37:BC:78:ILE:HG21	37:BC:124:VAL:CG2	2.49	0.42
35:BA:2078:C:C4	35:BA:2079:U:C4	3.08	0.42
49:DQ:75:THR:HG22	49:DQ:76:LYS:H	1.82	0.42
35:BA:2552:U:H2'	35:BA:2554:U:H5''	2.01	0.42
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	2.00	0.42
36:BB:30:C:OP2	51:BS:32:LEU:HD21	2.20	0.42
16:CP:9:PHE:HE2	16:CP:18:ARG:HD2	1.83	0.42
50:BR:24:GLN:HB2	50:BR:44:LEU:HD23	2.01	0.42
1:CA:201:C:C3'	1:CA:202:U:H5''	2.50	0.42
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.49	0.42
57:BY:103:GLY:O	57:BY:105:ALA:N	2.52	0.42
1:AA:499:A:O2'	1:AA:500:G:C8	2.64	0.42
35:DA:1362:C:H2'	35:DA:1363:C:C6	2.55	0.42
1:AA:954:G:H2'	1:AA:955:U:H6	1.83	0.42
35:BA:1006:C:O2'	46:BN:106:MET:HB3	2.18	0.42
35:BA:201:C:C5	35:BA:202:U:C5	3.08	0.42
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.20	0.42
41:DG:18:GLU:HG2	41:DG:175:LEU:HD13	2.02	0.42
37:BC:7:ARG:O	37:BC:11:LEU:HG	2.20	0.42
41:DG:147:ASP:C	41:DG:149:VAL:N	2.73	0.42
35:BA:2422:A:H8	35:BA:2422:A:H3'	1.84	0.42
22:CV:74:C:H2'	22:CV:75:C:C5'	2.49	0.42
1:AA:28:G:O2'	1:AA:296:U:OP1	2.35	0.42
1:CA:238:G:P	17:CQ:25:ARG:HH22	2.43	0.42
35:DA:1133:U:O2	35:DA:1137:G:C5'	2.68	0.42
3:AC:127:ARG:NH1	3:AC:127:ARG:HG2	2.34	0.42
47:BO:88:ASN:O	47:BO:90:GLN:N	2.53	0.42
35:DA:349:G:C2'	35:DA:350:U:H5'	2.50	0.42
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.18	0.42
53:DU:37:GLU:O	53:DU:40:PHE:HB2	2.19	0.42
34:D9:16:VAL:O	35:DA:1033:U:H5	2.03	0.42
35:DA:1771:C:H2'	35:DA:1772:G:H8	1.85	0.42
38:DD:138:VAL:HA	38:DD:165:ILE:CG2	2.50	0.42
35:DA:1805:U:H2'	35:DA:1806:C:C6	2.55	0.42
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.55	0.42
1:AA:745:C:H2'	1:AA:746:A:C8	2.54	0.42
1:AA:1399:C:C2	1:AA:1401:G:C5	3.08	0.42
15:CO:69:TYR:CZ	15:CO:73:GLU:HG3	2.54	0.42
2:AB:52:GLU:O	2:AB:56:ARG:HG2	2.20	0.42
1:CA:1483:A:H2'	1:CA:1484:C:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:868:U:C4	35:BA:869:G:N7	2.88	0.42
11:AK:91:ARG:O	11:AK:91:ARG:HG2	2.20	0.42
12:CL:91:LYS:HE2	12:CL:91:LYS:HB2	1.71	0.42
7:CG:88:PRO:HG2	7:CG:88:PRO:O	2.20	0.42
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.34	0.42
24:CY:457:LEU:HD23	24:CY:460:GLU:OE1	2.18	0.42
40:BF:124:LEU:CD2	40:BF:191:ARG:HH21	2.32	0.42
24:AY:205:TYR:O	24:AY:206:LEU:C	2.57	0.42
40:BF:31:HIS:O	40:BF:32:LEU:C	2.57	0.42
46:DN:3:THR:CG2	46:DN:4:TYR:H	2.29	0.42
35:BA:1043:C:H2'	35:BA:1044:G:C5'	2.19	0.42
31:B6:9:LEU:CD1	31:B6:26:ASN:HB2	2.49	0.42
33:B8:25:MET:HB3	33:B8:26:LYS:H	1.69	0.42
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	2.20	0.42
48:BP:46:LYS:HG2	48:BP:52:GLU:CG	2.49	0.42
57:DY:13:VAL:HG22	57:DY:14:LEU:N	2.33	0.42
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.88	0.42
51:BS:14:VAL:CG1	51:BS:16:ASN:HD22	2.32	0.42
31:D6:35:GLU:HB3	31:D6:51:GLU:N	2.35	0.42
29:D4:25:TYR:N	29:D4:25:TYR:CD1	2.87	0.42
36:DB:42:C:N4	41:DG:91:ARG:CZ	2.83	0.42
35:BA:1827:C:H2'	35:BA:1828:G:C5'	2.49	0.42
50:DR:55:ALA:HB2	50:DR:79:LEU:CD1	2.49	0.42
3:CC:72:LYS:C	3:CC:72:LYS:HE3	2.40	0.42
35:BA:2015:A:H2'	35:BA:2016:U:O4'	2.19	0.42
35:BA:805:G:H4'	35:BA:806:C:OP2	2.20	0.42
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.20	0.42
51:BS:98:VAL:O	51:BS:100:ALA:N	2.51	0.42
50:BR:83:ILE:HG22	50:BR:83:ILE:O	2.19	0.42
1:AA:1130:A:H5'	9:AI:18:PHE:HE1	1.84	0.42
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	2.34	0.42
35:DA:1301:A:HO2'	35:DA:1302:A:P	2.41	0.42
49:DQ:61:GLY:O	58:DZ:178:GLU:HB2	2.19	0.42
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.54	0.42
39:DE:145:LYS:O	39:DE:146:THR:C	2.58	0.42
35:DA:637:A:N6	35:DA:652:C:H4'	2.35	0.42
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.42
35:DA:143:G:H2'	35:DA:143(A):C:C6	2.54	0.42
36:DB:40:U:O2'	36:DB:43:C:C5	2.66	0.42
19:AS:19:VAL:HG13	19:AS:44:MET:HG2	2.02	0.42
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:78:LEU:O	39:BE:78:LEU:HD12	2.20	0.42
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.37	0.42
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.71	0.42
2:AB:207:ALA:C	2:AB:209:ARG:N	2.71	0.42
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.35	0.42
35:DA:2246:G:H2'	35:DA:2247:A:C8	2.55	0.42
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.99	0.42
25:D0:59:LEU:HD23	25:D0:59:LEU:HA	1.85	0.42
39:BE:25:VAL:CG1	39:BE:181:LEU:HD12	2.49	0.42
35:DA:980:A:C4	35:DA:1136:G:O4'	2.73	0.42
26:B1:4:VAL:HG21	26:B1:11:ARG:HH11	1.84	0.42
2:AB:32:ILE:O	2:AB:32:ILE:HG23	2.19	0.42
30:D5:36:CYS:HG	30:D5:49:CYS:HB3	1.85	0.42
24:CY:170:ARG:O	24:CY:171:GLU:CG	2.68	0.42
42:DH:162:ILE:O	42:DH:162:ILE:HG13	2.20	0.42
52:DT:108:ARG:HA	52:DT:111:ARG:HH11	1.85	0.42
24:CY:232:LEU:N	24:CY:232:LEU:HD13	2.35	0.42
58:BZ:71:VAL:HG11	58:BZ:74:VAL:HG23	2.01	0.42
55:DW:44:ALA:O	55:DW:47:VAL:N	2.52	0.42
37:BC:101:ILE:HG23	37:BC:128:LEU:HD21	2.01	0.42
37:BC:126:SER:C	37:BC:128:LEU:H	2.22	0.42
36:DB:96:U:H2'	36:DB:97:G:C8	2.54	0.42
35:DA:802:A:C5	35:DA:803:U:C4	3.08	0.42
35:DA:285:C:H2'	35:DA:286:C:C5'	2.48	0.42
35:DA:2665:A:H2'	35:DA:2666:C:O4'	2.20	0.42
4:AD:179:GLU:C	4:AD:181:MET:H	2.23	0.42
35:BA:750:A:C3'	35:BA:751:A:H5''	2.48	0.42
16:CP:53:VAL:CG2	16:CP:54:GLU:N	2.82	0.42
49:DQ:37:LEU:HG	49:DQ:129:THR:HA	2.02	0.42
1:AA:1475:G:OP1	35:BA:1689:A:H1'	2.19	0.42
1:AA:1134:G:H2'	1:AA:1135:U:H5'	2.01	0.42
1:AA:271:C:H2'	1:AA:272:C:H6	1.84	0.42
1:AA:1423:G:P	47:BO:49:ARG:HH22	2.42	0.42
12:CL:47:LYS:NZ	12:CL:48:PRO:HD3	2.34	0.42
35:BA:953:A:H2'	35:BA:954:G:H8	1.84	0.42
58:BZ:29:TYR:O	58:BZ:30:ASN:CB	2.68	0.42
52:BT:74:ARG:C	52:BT:75:ILE:HD12	2.40	0.42
36:DB:77:U:P	58:DZ:19:ARG:HH22	2.43	0.42
35:DA:2033:A:HO2'	35:DA:2034:U:P	2.43	0.42
35:BA:2428:G:C5'	35:BA:2429:G:OP1	2.67	0.42
3:AC:134:ILE:O	3:AC:135:LYS:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:183:LEU:N	39:DE:183:LEU:HD12	2.35	0.42
35:BA:1638:C:O2'	35:BA:1639:U:H5'	2.19	0.42
5:AE:153:LYS:H	8:AH:64:LYS:HZ3	1.68	0.42
35:DA:271(J):C:C2'	35:DA:271(J):C:O2	2.63	0.42
35:DA:784:A:HO2'	35:DA:785:G:H8	1.66	0.42
35:DA:1278:A:C5'	50:DR:36:THR:HG22	2.48	0.42
36:BB:56:G:H4'	41:BG:27:ASN:HD21	1.83	0.42
35:BA:1343:G:N3	35:BA:1384:A:H2	2.18	0.42
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.84	0.42
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.20	0.42
35:DA:1329:U:H5'	35:DA:1330:C:C5	2.49	0.42
42:BH:70:THR:C	42:BH:72:ILE:N	2.72	0.42
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.84	0.42
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.54	0.42
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.54	0.42
7:AG:65:ALA:HA	7:AG:128:ALA:CA	2.49	0.42
11:AK:79:SER:CB	11:AK:106:LYS:HD2	2.50	0.42
7:AG:38:LEU:O	7:AG:38:LEU:HD12	2.20	0.42
1:AA:807:A:C5	1:AA:808:C:C4	3.08	0.42
24:AY:580:MET:SD	35:BA:1913:A:N6	2.93	0.42
1:CA:329:A:H3'	1:CA:330:C:H5'	2.00	0.42
25:B0:23:VAL:HG13	25:B0:38:VAL:HG22	2.02	0.42
6:AF:29:ALA:O	6:AF:30:LEU:C	2.58	0.42
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.84	0.42
35:DA:444:C:H2'	35:DA:445:C:C6	2.54	0.42
35:DA:685:A:C6	35:DA:774:A:C2	3.08	0.42
13:AM:72:ALA:O	13:AM:75:ALA:N	2.53	0.42
8:CH:19:VAL:CG2	8:CH:21:LYS:HB2	2.50	0.42
9:AI:117:HIS:C	9:AI:118:LYS:HG3	2.40	0.42
9:CI:117:HIS:O	9:CI:118:LYS:HG3	2.19	0.42
1:CA:341:C:O2	1:CA:349:A:C2	2.73	0.42
9:CI:35:GLU:HA	9:CI:38:GLN:HB2	2.02	0.42
35:DA:2154:G:C2	35:DA:2155:G:C4	3.08	0.42
46:DN:38:HIS:O	53:DU:67:ALA:HB1	2.20	0.42
35:DA:2701:C:H2'	35:DA:2702:U:H2'	2.02	0.42
35:BA:696:G:C2	35:BA:767:U:O2	2.72	0.42
35:BA:823:G:C6	35:BA:824:A:C6	3.07	0.42
50:BR:56:LYS:HE2	50:BR:88:ARG:N	2.35	0.42
35:BA:2516:G:C6	35:BA:2517:C:C4	3.08	0.42
50:DR:56:LYS:C	50:DR:58:GLY:H	2.22	0.42
15:CO:48:LYS:HD3	15:CO:48:LYS:HA	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2361:A:N3	35:DA:2361:A:H2'	2.35	0.42
11:CK:22:HIS:CD2	11:CK:22:HIS:C	2.92	0.42
42:DH:97:ARG:HG2	42:DH:97:ARG:O	2.20	0.42
24:CY:519:ARG:CZ	24:CY:677:GLN:HA	2.50	0.42
40:BF:206:ILE:CG2	40:BF:207:GLY:H	2.31	0.42
24:AY:21:ILE:CG1	35:BA:2661:G:H5''	2.40	0.42
35:BA:1009:A:H1'	53:BU:59:ARG:NH1	2.34	0.42
53:BU:92:ARG:CZ	54:BV:11:GLN:H	2.32	0.42
54:BV:38:LEU:HD12	54:BV:56:SER:CA	2.50	0.42
35:DA:1747(A):G:C2'	35:DA:1748:G:C5'	2.76	0.42
35:DA:2131:G:C8	35:DA:2133:G:N2	2.88	0.42
35:DA:2131:G:C8	35:DA:2133:G:C2	3.08	0.42
19:CS:37:ARG:HG3	19:CS:37:ARG:H	1.43	0.42
57:DY:80:GLY:O	57:DY:81:LYS:O	2.38	0.42
38:BD:34:VAL:O	38:BD:36:PRO:HD2	2.19	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
40:DF:110:LEU:HD13	40:DF:202:PHE:HE1	1.84	0.42
40:DF:121:GLY:C	40:DF:123:LEU:H	2.23	0.42
33:D8:26:LYS:HE2	33:D8:47:LYS:HD2	2.01	0.42
13:CM:5:ALA:O	41:DG:113:ARG:NH1	2.53	0.42
41:DG:117:PHE:CE1	41:DG:119:GLY:HA2	2.55	0.42
41:DG:142:PRO:HG2	41:DG:143:GLU:CD	2.39	0.42
58:BZ:168:GLU:HA	58:BZ:168:GLU:OE2	2.20	0.42
38:BD:242:ARG:HB2	38:BD:243:GLY:H	1.59	0.42
35:BA:1902:C:H1'	38:BD:244:ARG:HG3	2.01	0.42
30:D5:44:THR:HG21	50:DR:101:ALA:CB	2.28	0.42
50:DR:79:LEU:HD22	50:DR:83:ILE:HB	2.01	0.42
41:DG:38:VAL:CG1	41:DG:93:THR:HA	2.49	0.42
41:BG:131:TYR:HE2	41:BG:133:LEU:CB	2.27	0.42
50:BR:76:VAL:CG1	50:BR:77:ARG:N	2.82	0.42
1:AA:1129:C:O2'	1:AA:1130:A:O5'	2.38	0.42
35:BA:583:G:C5	35:BA:584:C:C5	3.07	0.42
5:CE:50:GLU:CG	5:CE:52:PRO:HD2	2.34	0.42
35:BA:2507:C:H2'	35:BA:2508:G:H8	1.84	0.42
33:B8:61:LEU:HG	33:B8:61:LEU:H	1.33	0.42
44:BK:103:GLN:HA	44:BK:106:GLU:OE2	2.19	0.42
35:BA:1142(A):A:C6	35:BA:1144:G:C5	3.08	0.42
38:BD:270:ILE:HD12	38:BD:270:ILE:N	2.35	0.42
20:AT:30:LYS:HZ2	20:AT:34:LYS:CE	2.33	0.42
2:AB:235:SER:OG	2:AB:236:TYR:N	2.49	0.42
2:AB:81:VAL:O	2:AB:82:ARG:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.79	0.42
47:BO:69:ILE:HB	47:BO:77:ILE:CG2	2.49	0.42
35:BA:2795:G:N2	35:BA:2796:U:H5	2.14	0.42
26:D1:83:GLU:OE2	26:D1:83:GLU:C	2.58	0.42
25:D0:41:ARG:O	25:D0:42:GLY:O	2.37	0.42
42:DH:72:ILE:O	42:DH:73:ALA:C	2.58	0.42
22:CV:56:C:C2	41:DG:83:ARG:HG2	2.55	0.42
24:CY:512:ILE:N	24:CY:512:ILE:CD1	2.82	0.42
35:BA:1678:G:N2	35:BA:1989:G:N2	2.57	0.42
27:D2:48:HIS:HA	27:D2:51:ARG:HG2	2.01	0.42
55:DW:50:VAL:HG13	55:DW:51:LEU:N	2.33	0.42
1:CA:1284:C:O5'	1:CA:1284:C:H6	2.03	0.42
9:CI:125:TYR:CD2	9:CI:126:SER:N	2.87	0.42
50:BR:10:LEU:CB	50:BR:17:ARG:HD3	2.41	0.42
35:BA:598:G:H5'	48:BP:15:ARG:CB	2.43	0.42
51:DS:67:ARG:NH2	51:DS:100:ALA:HB3	2.34	0.42
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	2.02	0.42
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.16	0.42
35:BA:862:G:H2'	35:BA:863:A:O4'	2.20	0.42
39:BE:96:PHE:O	39:BE:175:VAL:HG11	2.20	0.42
22:AV:35:A:C2	23:AX:18:G:C2	3.08	0.42
1:CA:1115:C:C4	1:CA:1116:C:C5	3.07	0.42
36:BB:111:G:O2'	36:BB:112:U:H5'	2.20	0.42
42:BH:152:ARG:O	42:BH:153:LYS:C	2.56	0.42
37:BC:101:ILE:O	37:BC:101:ILE:HG22	2.19	0.42
37:BC:127:LYS:O	37:BC:128:LEU:CG	2.67	0.42
20:AT:89:ARG:HD2	20:AT:104:LEU:CD1	2.49	0.42
15:CO:56:LEU:HD21	35:DA:715:G:C2	2.54	0.42
35:DA:877:U:C2'	35:DA:878:A:H5''	2.50	0.42
1:AA:178:C:C2'	1:AA:179:A:H5'	2.49	0.42
4:CD:62:GLN:O	4:CD:66:ARG:HD2	2.19	0.42
55:BW:44:ALA:O	55:BW:47:VAL:N	2.53	0.42
12:AL:47:LYS:NZ	12:AL:48:PRO:HD3	2.35	0.42
35:DA:781:A:H2	35:DA:1776:G:N3	2.18	0.42
35:DA:694:U:H2'	35:DA:695:G:O5'	2.20	0.42
12:CL:98:TYR:CD1	12:CL:98:TYR:N	2.88	0.42
3:AC:139:GLN:O	3:AC:140:ARG:C	2.57	0.42
39:DE:25:VAL:CG1	39:DE:181:LEU:HD12	2.48	0.42
35:DA:2688:U:H1'	35:DA:2721:A:H61	1.82	0.42
35:DA:464:U:H2'	35:DA:465:G:O4'	2.19	0.42
46:BN:125:GLY:HA3	46:BN:126:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:G:C6	1:AA:749:C:N4	2.87	0.42
57:BY:51:VAL:HG12	57:BY:53:PRO:CD	2.48	0.42
35:DA:605:C:C4	35:DA:606:U:C5	3.08	0.42
39:BE:101:ARG:CZ	39:BE:171:GLU:HB2	2.49	0.42
27:B2:58:ALA:O	27:B2:61:LEU:N	2.53	0.42
39:BE:142:GLY:C	39:BE:143:ASN:ND2	2.73	0.42
39:DE:101:ARG:HG3	39:DE:169:ASN:ND2	2.35	0.42
41:DG:13:GLU:O	41:DG:14:GLU:CB	2.68	0.42
54:DV:13:ARG:CG	54:DV:13:ARG:HH11	2.33	0.42
54:BV:13:ARG:CG	54:BV:13:ARG:HH11	2.33	0.42
7:AG:64:GLN:HG2	7:AG:128:ALA:HB1	2.01	0.42
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.84	0.42
56:DX:18:TYR:HA	56:DX:21:PHE:CE1	2.55	0.42
6:CF:12:PRO:HG3	6:CF:55:ASP:OD1	2.19	0.42
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.55	0.42
8:CH:66:GLY:O	8:CH:76:PRO:CB	2.68	0.42
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.49	0.42
35:BA:987:G:H2'	35:BA:988:A:O4'	2.20	0.42
35:BA:1461:G:H2'	35:BA:1462:C:C6	2.54	0.42
1:CA:1009:G:C2	1:CA:1010:G:C8	3.08	0.42
47:DO:52:VAL:C	47:DO:53:LYS:HG3	2.39	0.42
43:DJ:144:UNK:C	43:DJ:146:UNK:N	2.82	0.42
37:DC:10:ALA:O	37:DC:13:GLU:HG2	2.20	0.42
46:DN:34:LEU:HD13	46:DN:34:LEU:HA	1.88	0.42
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.59	0.42
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.20	0.42
16:AP:1:MET:HG3	16:AP:65:GLN:HG3	2.00	0.42
3:AC:29:TYR:CG	14:AN:36:PHE:HE1	2.38	0.42
24:AY:290:LYS:HD3	24:AY:298:VAL:HG21	2.02	0.42
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.83	0.42
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	2.00	0.42
1:CA:532:A:C2'	1:CA:533:A:OP1	2.68	0.42
40:BF:109:GLY:HA2	40:BF:112:MET:HB2	2.01	0.42
44:DK:104:VAL:CG2	44:DK:127:ILE:HB	2.50	0.42
24:AY:484:ARG:HD2	24:AY:559:PRO:HB2	2.02	0.42
1:CA:784:C:H4'	35:DA:1837:C:OP1	2.20	0.42
20:AT:81:LYS:C	20:AT:83:ARG:H	2.23	0.42
24:CY:443:HIS:CD2	24:CY:450:ILE:HD11	2.55	0.42
8:AH:99:GLU:O	8:AH:100:ILE:C	2.58	0.42
1:AA:151:A:C2'	1:AA:152:A:H5'	2.49	0.42
43:BJ:37:UNK:C	43:BJ:39:UNK:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:62:HIS:O	55:DW:63:ASP:C	2.58	0.42
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.83	0.42
36:BB:58:A:H2'	36:BB:59:A:O4'	2.19	0.42
35:BA:864:G:H21	35:BA:866:A:H61	1.67	0.42
35:DA:2684:U:H2'	35:DA:2685:G:O4'	2.20	0.42
52:BT:78:LEU:HD22	52:BT:78:LEU:O	2.19	0.42
58:DZ:85:HIS:ND1	58:DZ:86:VAL:N	2.67	0.42
24:AY:354:ARG:O	24:AY:378:VAL:HG23	2.20	0.42
24:AY:537:GLU:H	24:AY:537:GLU:HG3	1.57	0.42
24:AY:34:TYR:O	24:AY:38:ARG:HB2	2.19	0.42
2:AB:160:ASP:O	2:AB:161:ALA:HB2	2.20	0.42
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.34	0.42
35:DA:1204:A:H1'	35:DA:1206:G:N7	2.35	0.42
40:DF:39:TRP:HB2	40:DF:101:LEU:HD22	2.02	0.42
41:BG:54:GLU:C	41:BG:57:ALA:HB3	2.39	0.42
1:CA:979:C:C2'	1:CA:980:C:H5''	2.47	0.42
24:AY:250:THR:C	24:AY:252:ASP:H	2.22	0.42
9:CI:60:ASP:O	9:CI:61:ALA:O	2.37	0.42
35:BA:902:C:H2'	35:BA:903:C:H6	1.85	0.42
54:DV:40:LEU:HD13	54:DV:46:VAL:H	1.84	0.42
35:BA:534:U:O2'	53:BU:49:HIS:CD2	2.72	0.42
61:AY:702:FUA:H231	61:AY:702:FUA:C12	2.45	0.42
58:DZ:29:TYR:CB	58:DZ:34:ASN:CB	2.93	0.42
40:DF:169:ASN:OD1	40:DF:169:ASN:O	2.38	0.42
38:BD:61:LEU:HA	38:BD:61:LEU:HD13	1.76	0.42
1:AA:1002:G:C8	1:AA:1003:G:N7	2.88	0.42
35:BA:212:G:C5'	35:BA:212:G:C8	2.98	0.42
10:CJ:32:ALA:CB	10:CJ:78:ASN:HD21	2.33	0.42
10:CJ:79:ARG:HD3	10:CJ:79:ARG:HA	1.67	0.42
35:DA:2597:G:H5''	38:DD:243:GLY:HA2	2.02	0.42
37:DC:132:LEU:HD22	37:DC:137:LEU:CB	2.50	0.42
24:CY:33:LEU:CD1	24:CY:36:THR:HG21	2.49	0.42
35:BA:2290:G:H4'	35:BA:2381:C:O2'	2.20	0.42
3:CC:22:TRP:CH2	3:CC:32:LEU:HB2	2.55	0.42
5:CE:92:LYS:HB3	5:CE:119:LEU:HB2	2.01	0.42
35:DA:1301:A:C8	35:DA:1303:G:C8	3.08	0.42
47:BO:60:ALA:HA	47:BO:87:ILE:HD11	2.00	0.42
47:BO:87:ILE:HG22	47:BO:92:GLU:C	2.40	0.42
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	3.03	0.42
35:DA:811:U:C3'	35:DA:812:C:C5'	2.98	0.42
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:43:THR:HG22	46:BN:45:ASN:HD22	1.84	0.42
35:DA:624:C:N4	48:DP:107:LYS:HZ2	2.15	0.42
1:AA:1403:C:O2	1:AA:1403:C:C2'	2.66	0.42
35:BA:624:C:N4	48:BP:107:LYS:HZ2	2.17	0.42
2:CB:17:PHE:O	2:CB:18:GLY:O	2.38	0.42
35:DA:1799:G:H22	35:DA:1818:U:H2'	1.84	0.42
44:BK:6:ALA:HB1	44:BK:8:VAL:HG23	2.01	0.42
39:BE:55:ASN:HA	39:BE:55:ASN:HD22	1.55	0.42
39:BE:56:PRO:O	39:BE:57:LYS:O	2.38	0.42
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.46	0.42
39:BE:110:GLY:HA2	39:BE:162:ALA:H	1.85	0.42
1:AA:972:C:O2'	10:AJ:55:LYS:HB3	2.20	0.42
35:DA:2295:C:H2'	35:DA:2296:U:C6	2.54	0.42
52:BT:117:ASP:O	52:BT:118:ARG:C	2.58	0.42
35:BA:359:A:H3'	35:BA:360:G:C8	2.55	0.42
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.49	0.42
24:AY:357:ARG:HG3	24:AY:357:ARG:NH2	2.34	0.42
24:AY:370:LYS:O	24:AY:371:ALA:C	2.58	0.42
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.84	0.42
41:BG:76:SER:OG	41:BG:83:ARG:HB3	2.17	0.42
1:CA:251:G:H4'	1:CA:252:U:O5'	2.19	0.42
1:CA:235:C:C5'	17:CQ:70:ARG:HG2	2.44	0.42
35:BA:545:C:H3'	35:BA:547:A:C5'	2.50	0.42
42:DH:46:GLU:CG	42:DH:51:ARG:HB2	2.50	0.42
2:AB:21:ARG:HA	2:AB:40:HIS:ND1	2.35	0.42
52:DT:10:VAL:C	52:DT:12:SER:H	2.22	0.42
4:CD:98:GLU:CB	4:CD:189:PRO:HG3	2.49	0.42
1:AA:368:U:OP2	24:AY:353:ALA:CB	2.68	0.42
40:DF:160:ASN:ND2	40:DF:162:LEU:HB2	2.31	0.42
35:BA:2467:C:O2	49:BQ:124:LYS:NZ	2.52	0.42
4:CD:96:LEU:CD2	4:CD:96:LEU:H	2.26	0.42
51:BS:42:ASP:O	51:BS:43:GLU:CB	2.68	0.42
24:CY:19:ALA:C	24:CY:121:VAL:HG11	2.40	0.42
35:BA:1319:G:C2	35:BA:1334:G:C6	3.08	0.42
35:DA:953:A:H2'	35:DA:954:G:H8	1.85	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	2.02	0.42
18:CR:51:LEU:HA	18:CR:52:PRO:HD3	1.81	0.42
57:DY:58:GLY:O	57:DY:59:GLY:O	2.38	0.42
13:AM:34:LEU:HA	13:AM:34:LEU:HD23	1.89	0.42
36:BB:96:U:H2'	36:BB:97:G:C8	2.54	0.42
35:DA:914:C:C2'	35:DA:915:C:H5'	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:140:ASN:H	37:BC:145:THR:HB	1.85	0.42
8:AH:123:GLU:O	8:AH:126:LYS:HB3	2.20	0.42
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	2.02	0.42
35:DA:418:G:H2'	35:DA:419:C:H6	1.85	0.42
51:BS:19:LYS:C	51:BS:20:ARG:CZ	2.88	0.42
35:DA:739:G:OP2	35:DA:739:G:H8	2.02	0.42
5:AE:72:GLN:NE2	5:AE:144:THR:HG22	2.33	0.42
13:AM:37:THR:HG21	13:AM:56:LEU:CD2	2.46	0.42
20:AT:84:LEU:C	20:AT:86:ARG:N	2.72	0.42
48:DP:122:PRO:O	48:DP:123:LEU:CB	2.68	0.42
1:AA:666:G:C2	1:AA:667:G:C8	3.08	0.42
3:CC:53:ALA:HB1	3:CC:114:PRO:HB2	2.01	0.42
38:BD:227:ASN:O	38:BD:228:PRO:C	2.58	0.42
35:DA:271(E):U:H3	35:DA:271(S):G:H1	1.68	0.42
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.19	0.42
57:DY:54:LYS:HE2	57:DY:55:TYR:HE2	1.84	0.42
35:BA:223:A:C4	35:BA:422:A:C8	3.08	0.42
35:DA:519:U:H2'	35:DA:520:G:H8	1.85	0.42
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.84	0.42
22:AV:28:C:O2	22:AV:43:A:C2	2.72	0.42
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.22	0.42
1:CA:807:A:C5	1:CA:808:C:C4	3.08	0.42
32:B7:35:ARG:O	32:B7:38:GLY:N	2.48	0.42
35:DA:438:G:H2'	35:DA:440:G:H8	1.85	0.42
46:BN:109:LYS:HE3	46:BN:109:LYS:H	1.84	0.42
1:CA:1258:G:C6	1:CA:1259:C:N4	2.88	0.42
58:BZ:100:VAL:CG2	58:BZ:126:VAL:HG22	2.50	0.42
35:DA:1565:C:H2'	38:DD:21:PHE:CE1	2.55	0.42
3:AC:54:ARG:HG2	3:AC:54:ARG:NH1	2.34	0.42
35:DA:2193:G:O2'	35:DA:2194:G:H5'	2.20	0.42
35:BA:2693:A:H61	35:BA:2716:U:H3	1.68	0.42
27:D2:30:ARG:O	27:D2:34:GLU:HB2	2.19	0.42
1:AA:757:U:H2'	1:AA:758:G:O4'	2.20	0.42
50:DR:56:LYS:HE2	50:DR:88:ARG:N	2.35	0.42
35:BA:347:A:H2'	35:BA:348:G:C8	2.55	0.42
52:DT:20:PRO:O	52:DT:22:PHE:HD2	2.03	0.42
45:BL:4:UNK:C	45:BL:6:UNK:N	2.83	0.42
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.31	0.42
35:DA:2402:C:C6	35:DA:2402:C:OP2	2.73	0.42
24:CY:434:GLU:O	24:CY:434:GLU:HG2	2.18	0.42
35:BA:2751:G:OP1	35:BA:2751:G:N2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:99:LEU:HD22	9:AI:99:LEU:N	2.34	0.42
22:CV:53:G:O2'	22:CV:54:5MU:H5''	2.20	0.42
16:AP:57:ARG:O	16:AP:58:TYR:C	2.57	0.42
40:DF:22:ALA:C	40:DF:24:LEU:N	2.72	0.42
13:AM:5:ALA:O	41:BG:113:ARG:NH1	2.53	0.42
41:BG:103:LEU:O	41:BG:104:GLU:C	2.58	0.42
41:BG:109:VAL:HG12	41:BG:110:ALA:N	2.35	0.42
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.50	0.42
39:BE:119:ARG:NH1	39:BE:156:MET:O	2.53	0.42
56:BX:12:VAL:CG1	56:BX:27:THR:O	2.59	0.42
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.19	0.42
24:AY:124:GLN:HE21	24:AY:124:GLN:HB2	1.53	0.42
1:CA:1130:A:H5'	9:CI:18:PHE:HE1	1.85	0.42
54:DV:46:VAL:HG22	54:DV:47:VAL:N	2.25	0.42
40:DF:170:LEU:N	40:DF:170:LEU:CD2	2.83	0.42
57:DY:77:PRO:O	57:DY:78:ALA:CB	2.68	0.42
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ1	1.85	0.42
33:D8:49:VAL:O	33:D8:53:PRO:HD3	2.20	0.42
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	2.01	0.42
40:BF:167:ALA:C	40:BF:170:LEU:HD23	2.39	0.42
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.55	0.42
35:DA:832:G:OP1	48:DP:40:SER:HB3	2.20	0.42
31:B6:41:PRO:HD3	31:B6:47:THR:HG22	2.02	0.42
51:BS:101:LEU:O	51:BS:102:ALA:O	2.38	0.42
51:BS:35:ILE:HG22	51:BS:53:SER:HB2	2.02	0.42
50:BR:83:ILE:HA	50:BR:86:ARG:HD3	2.01	0.42
5:CE:101:ILE:H	5:CE:101:ILE:CD1	2.26	0.42
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.38	0.42
12:AL:54:LYS:O	12:AL:70:ILE:HG12	2.20	0.42
53:BU:12:ARG:O	53:BU:13:LYS:C	2.58	0.42
35:BA:1820:U:OP1	35:BA:1820:U:H6	2.03	0.42
26:B1:78:LYS:O	26:B1:80:LEU:N	2.53	0.42
2:CB:81:VAL:O	2:CB:82:ARG:C	2.59	0.42
1:AA:703:G:O2'	1:AA:704:A:P	2.78	0.42
44:BK:27:LEU:HA	44:BK:30:HIS:HB2	2.02	0.42
34:D9:18:ARG:O	34:D9:18:ARG:CG	2.57	0.42
35:BA:968:G:C6	35:BA:969:U:C4	3.08	0.42
40:DF:81:PRO:C	40:DF:83:PHE:N	2.73	0.42
35:DA:360:G:O2'	35:DA:361:G:H5'	2.19	0.42
1:AA:1054:C:O2	1:AA:1054:C:C2'	2.66	0.42
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1016:G:H1	35:DA:1146:C:H42	1.67	0.42
35:DA:2713:A:H4'	35:DA:2713:A:OP2	2.19	0.42
37:DC:149:ASN:ND2	37:DC:149:ASN:C	2.73	0.42
35:DA:190:A:H3'	35:DA:204:A:H61	1.85	0.42
35:DA:977:G:H2'	35:DA:978:G:H8	1.84	0.42
42:BH:46:GLU:H	42:BH:46:GLU:HG2	1.36	0.42
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.84	0.42
35:BA:1325:G:OP2	35:BA:1616:A:H2'	2.20	0.42
35:BA:1608:A:C6	35:BA:1611:C:C2	3.07	0.42
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.35	0.42
35:DA:1654:A:OP1	50:DR:3:HIS:HB2	2.20	0.42
41:DG:5:VAL:H	41:DG:8:LYS:HB3	1.84	0.42
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.19	0.42
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.68	0.42
58:BZ:25:PRO:O	58:BZ:85:HIS:HA	2.19	0.42
52:DT:33:LYS:NZ	52:DT:43:GLN:NE2	2.67	0.42
1:CA:663:A:C2'	1:CA:664:G:H5'	2.50	0.42
35:DA:239:U:H1'	35:DA:259:G:N2	2.34	0.42
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	2.01	0.42
23:AX:16:A:H2'	23:AX:17:U:C6	2.55	0.42
24:CY:370:LYS:O	24:CY:371:ALA:C	2.57	0.42
35:BA:1052:C:C6	35:BA:1052:C:C3'	3.02	0.42
24:CY:106:VAL:CG2	24:CY:132:ARG:HG3	2.49	0.42
35:BA:120:U:C2'	35:BA:120:U:O2	2.60	0.42
1:CA:631:G:H5'	1:CA:631:G:C8	2.52	0.42
35:DA:1722:A:C2	35:DA:1740:G:C8	3.08	0.42
32:B7:25:PRO:CA	32:B7:28:ARG:NH2	2.83	0.42
32:D7:8:ASN:HD22	32:D7:9:ARG:H	1.63	0.42
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.54	0.42
35:BA:603:A:O2'	35:BA:604:G:OP1	2.31	0.42
48:BP:89:ALA:HB1	48:BP:121:LYS:HD2	2.02	0.42
58:BZ:17:ALA:O	58:BZ:21:ALA:HB2	2.19	0.42
1:CA:186:C:H2'	1:CA:187:C:C6	2.55	0.42
35:DA:724:U:O2'	35:DA:725:G:H5'	2.20	0.42
38:BD:73:VAL:C	38:BD:75:ILE:H	2.24	0.42
38:BD:28:GLU:CD	38:BD:28:GLU:N	2.74	0.42
2:CB:156:LYS:O	2:CB:157:ARG:CB	2.63	0.42
35:BA:1843:C:H5'	38:BD:253:GLN:NE2	2.34	0.42
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	2.01	0.42
35:DA:1090:U:O2	35:DA:1102:C:H1'	2.19	0.42
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1569:A:O2'	35:DA:1570:A:H5'	2.19	0.42
24:CY:221:ALA:C	24:CY:223:PHE:H	2.22	0.42
35:BA:519:U:H2'	35:BA:520:G:H8	1.84	0.42
35:BA:2033:A:O2'	35:BA:2034:U:P	2.77	0.42
1:CA:402:G:C5	1:CA:403:C:C5	3.08	0.42
1:CA:402:G:C6	1:CA:403:C:C4	3.08	0.42
16:CP:75:ARG:O	16:CP:77:ALA:N	2.51	0.42
1:AA:936:C:O2'	22:AW:35:C:H5'	2.20	0.42
37:DC:7:ARG:O	37:DC:11:LEU:HG	2.19	0.42
1:AA:414:A:O2'	1:AA:415:A:H5'	2.20	0.42
6:AF:20:ALA:O	6:AF:21:LEU:C	2.59	0.42
35:DA:1891:G:O5'	35:DA:1891:G:H8	2.02	0.42
22:AV:39:C:H2'	22:AV:40:C:C6	2.54	0.42
35:DA:1131:G:C2	35:DA:1132:A:C5	3.08	0.42
35:BA:1770:G:C2'	35:BA:1771:C:H5'	2.49	0.42
1:AA:923:A:O2'	1:AA:924:C:H5'	2.20	0.42
4:AD:168:ARG:HD2	4:AD:168:ARG:N	2.33	0.42
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.74	0.42
11:CK:93:GLN:O	11:CK:94:ALA:C	2.57	0.42
43:DJ:153:UNK:C	43:DJ:155:UNK:N	2.82	0.42
35:DA:700:G:H2'	35:DA:701:G:H8	1.84	0.42
35:DA:347:A:H2'	35:DA:348:G:C8	2.55	0.42
35:BA:2322:A:O2'	35:BA:2323:G:H5'	2.20	0.42
55:BW:31:GLU:O	55:BW:35:ILE:HG12	2.19	0.42
53:DU:29:SER:OG	53:DU:30:LYS:HE2	2.20	0.42
4:CD:50:ARG:HA	4:CD:51:PRO:HD3	1.90	0.42
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.20	0.42
40:DF:116:ASP:OD1	40:DF:119:ARG:NH2	2.47	0.41
41:BG:86:MET:N	41:BG:87:PRO:CD	2.75	0.41
10:AJ:32:ALA:HB1	10:AJ:76:ASN:HB3	2.02	0.41
24:CY:407:PRO:O	24:CY:408:VAL:HG13	2.20	0.41
40:BF:28:ILE:N	40:BF:28:ILE:CD1	2.80	0.41
24:AY:9:LEU:HA	24:AY:12:LEU:HD23	2.02	0.41
56:DX:53:LYS:HB3	56:DX:82:GLN:HB3	2.02	0.41
48:BP:47:ASP:OD1	48:BP:48:PRO:O	2.38	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:HH21	2.06	0.41
35:DA:294:A:N6	35:DA:345:A:H1'	2.35	0.41
38:BD:34:VAL:CG2	38:BD:35:LYS:H	2.04	0.41
35:DA:272(I):U:C5	35:DA:363(A):A:C2	3.07	0.41
40:DF:152:GLU:HB3	40:DF:190:GLU:HB2	2.01	0.41
31:D6:9:LEU:CD1	31:D6:28:ARG:HG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D6:9:LEU:HD21	31:D6:26:ASN:HD22	1.84	0.41
1:AA:793:U:C3'	1:AA:794:A:C5'	2.92	0.41
41:DG:46:ALA:C	41:DG:51:ARG:HG3	2.41	0.41
19:CS:50:ALA:O	19:CS:51:VAL:C	2.58	0.41
50:DR:76:VAL:CG1	50:DR:77:ARG:N	2.83	0.41
44:DK:34:ILE:H	44:DK:34:ILE:HG12	1.59	0.41
35:BA:643:A:H2'	35:BA:644:A:O4'	2.20	0.41
35:BA:1453:U:H2'	35:BA:1455:G:C8	2.55	0.41
2:CB:166:ASP:HA	2:CB:167:PRO:HD2	1.93	0.41
48:BP:16:ARG:NH2	48:BP:18:ARG:HG3	2.35	0.41
27:D2:21:LEU:CD1	27:D2:64:LEU:HG	2.50	0.41
47:DO:17:ARG:HH21	47:DO:47:ILE:HD11	1.83	0.41
53:DU:8:VAL:O	53:DU:9:VAL:C	2.57	0.41
35:BA:27:G:H2'	35:BA:28:A:OP2	2.19	0.41
26:B1:56:GLN:CA	26:B1:56:GLN:NE2	2.82	0.41
29:D4:3:GLU:HG2	36:DB:40:U:C4	2.55	0.41
12:CL:54:LYS:HB3	12:CL:70:ILE:HG13	2.02	0.41
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.20	0.41
35:BA:2820:A:H8	39:BE:191:PRO:HB3	1.85	0.41
38:BD:239:ARG:NH2	38:BD:239:ARG:HG2	2.34	0.41
1:CA:1442(A):G:H2'	52:DT:118:ARG:HH11	1.85	0.41
41:DG:34:LEU:HB2	41:DG:99:MET:HE1	2.02	0.41
3:AC:78:GLY:CA	3:AC:83:ARG:HB3	2.49	0.41
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD3	2.50	0.41
35:BA:360:G:O2'	35:BA:361:G:H5'	2.19	0.41
2:AB:82:ARG:NH1	2:AB:82:ARG:HG3	2.35	0.41
52:BT:85:LYS:NZ	52:BT:85:LYS:CB	2.71	0.41
5:CE:33:VAL:CG1	5:CE:34:VAL:N	2.81	0.41
19:CS:64:GLU:HG2	29:D4:48:ARG:HH22	1.82	0.41
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.20	0.41
13:CM:89:GLY:O	13:CM:90:LEU:O	2.38	0.41
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.55	0.41
17:AQ:59:ILE:HD13	17:AQ:59:ILE:HA	1.79	0.41
1:CA:253:U:H2'	1:CA:254:G:H8	1.84	0.41
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.54	0.41
52:BT:12:SER:O	52:BT:15:VAL:HG13	2.19	0.41
24:CY:204:GLU:O	24:CY:205:TYR:C	2.57	0.41
24:CY:170:ARG:NH2	24:CY:205:TYR:HE1	2.17	0.41
24:AY:553:GLY:H	24:AY:557:GLY:C	2.23	0.41
46:DN:130:HIS:O	46:DN:130:HIS:CG	2.72	0.41
29:D4:43:TYR:HD2	29:D4:44:THR:HG23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D2:35:LEU:HD11	27:D2:49:LYS:HB3	2.00	0.41
24:CY:126:GLU:O	24:CY:128:TYR:N	2.53	0.41
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	2.02	0.41
51:DS:98:VAL:HG12	51:DS:100:ALA:CB	2.50	0.41
4:AD:91:SER:O	4:AD:92:VAL:C	2.57	0.41
22:CV:36:U:OP1	24:CY:573:HIS:HE1	2.03	0.41
24:CY:573:HIS:HD2	24:CY:575:VAL:H	1.68	0.41
37:DC:100:ILE:O	37:DC:102:GLN:N	2.53	0.41
42:BH:162:ILE:O	42:BH:162:ILE:HG13	2.20	0.41
4:AD:159:ARG:O	4:AD:160:GLN:C	2.58	0.41
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.52	0.41
4:CD:58:LEU:CD2	4:CD:58:LEU:C	2.88	0.41
35:DA:748:G:C8	55:DW:89:ALA:HB1	2.55	0.41
55:BW:68:ARG:HA	55:BW:110:LYS:CG	2.48	0.41
19:CS:25:LYS:O	19:CS:26:GLY:C	2.59	0.41
7:AG:79:ARG:O	7:AG:80:VAL:HG13	2.19	0.41
15:CO:9:GLN:O	15:CO:11:VAL:N	2.53	0.41
18:CR:45:SER:OG	18:CR:46:GLU:N	2.51	0.41
35:BA:482:A:N6	35:BA:506:G:C8	2.88	0.41
35:DA:476:G:H4'	35:DA:502:A:N1	2.35	0.41
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	2.20	0.41
1:CA:1162:C:C2	1:CA:1175:G:N2	2.88	0.41
35:BA:2617:C:H2'	35:BA:2618:G:H5'	2.01	0.41
51:DS:19:LYS:C	51:DS:20:ARG:CZ	2.89	0.41
22:AV:4:G:O2'	22:AV:5:G:C8	2.69	0.41
35:BA:528:A:N1	35:BA:2042:A:H2'	2.35	0.41
35:BA:826:U:H2'	35:BA:828:U:O4'	2.19	0.41
1:CA:1202:G:H2'	1:CA:1203:C:H5'	2.01	0.41
51:BS:17:ARG:C	51:BS:19:LYS:H	2.23	0.41
1:CA:1329:A:H5''	13:CM:26:GLY:N	2.35	0.41
1:CA:333:G:O2'	1:CA:334:C:H5'	2.20	0.41
12:AL:117:ARG:O	12:AL:119:LYS:O	2.36	0.41
1:AA:1245:A:C2	1:AA:1293:G:C2	3.08	0.41
35:DA:782:A:N1	38:DD:226:MET:HE3	2.34	0.41
2:AB:25:ASN:O	2:AB:27:LYS:N	2.53	0.41
43:BJ:72:UNK:C	43:BJ:74:UNK:N	2.82	0.41
57:BY:52:SER:O	57:BY:53:PRO:C	2.59	0.41
32:B7:46:VAL:HG12	32:B7:47:ARG:H	1.83	0.41
1:AA:189(B):C:C2	1:AA:189(J):G:C2	3.08	0.41
38:BD:8:PRO:C	38:BD:10:THR:H	2.23	0.41
52:DT:35:LYS:HZ1	52:DT:41:ARG:NH1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.02	0.41
39:DE:101:ARG:HA	39:DE:101:ARG:HD3	1.67	0.41
1:AA:724:G:O2'	1:AA:725:G:H5'	2.20	0.41
24:AY:443:HIS:HA	24:AY:444:PRO:HD2	1.92	0.41
2:AB:60:ASP:O	2:AB:64:ARG:CZ	2.68	0.41
35:DA:1196:C:O4'	35:DA:1226:A:C2	2.73	0.41
1:CA:8:A:C6	4:CD:209:ARG:HB2	2.55	0.41
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.52	0.41
35:BA:1227:G:O2'	35:BA:1228:G:H5'	2.20	0.41
1:AA:688:G:H2'	1:AA:689:C:C6	2.54	0.41
2:AB:178:ARG:CG	2:AB:178:ARG:NH1	2.80	0.41
35:BA:436:C:H2'	35:BA:437:G:H8	1.85	0.41
11:AK:31:THR:O	11:AK:31:THR:CG2	2.68	0.41
58:DZ:72:ARG:HG3	58:DZ:72:ARG:NH1	2.34	0.41
35:BA:444:C:H2'	35:BA:445:C:H6	1.85	0.41
1:AA:1430:C:C2	1:AA:1471:G:C2	3.08	0.41
35:DA:1854:A:H2'	35:DA:1855:G:O4'	2.20	0.41
4:CD:170:VAL:O	4:CD:171:GLY:C	2.56	0.41
1:CA:78:G:C2	1:CA:79:G:H1'	2.55	0.41
4:CD:43:HIS:HB3	4:CD:46:LYS:HD3	2.02	0.41
1:CA:757:U:O2'	1:CA:879:C:H1'	2.19	0.41
35:DA:602:G:C2	35:DA:656:G:C6	3.07	0.41
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.41
50:BR:56:LYS:C	50:BR:58:GLY:H	2.23	0.41
24:AY:134:ALA:HB3	24:AY:258:VAL:HG22	2.02	0.41
39:DE:138:PRO:HG2	39:DE:139:GLY:N	2.35	0.41
37:DC:16:ASP:O	37:DC:18:ASN:N	2.52	0.41
56:DX:47:PHE:CD2	56:DX:89:ILE:HG21	2.55	0.41
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.58	0.41
35:DA:562:U:C4	35:DA:2036:C:H1'	2.55	0.41
24:AY:348:ARG:HG2	24:AY:382:GLU:HG3	2.01	0.41
35:BA:430:G:H2'	35:BA:431:U:H5'	2.01	0.41
24:CY:603:GLU:C	24:CY:676:TYR:HD1	2.23	0.41
24:CY:408:VAL:HG22	24:CY:454:MET:HA	2.02	0.41
24:CY:25:LYS:NZ	62:CY:703:GDP:PB	2.93	0.41
24:CY:88:VAL:O	24:CY:90:PHE:HD1	2.03	0.41
24:AY:21:ILE:HG21	24:AY:88:VAL:CG1	2.44	0.41
58:DZ:171:ILE:C	58:DZ:171:ILE:HD12	2.40	0.41
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.88	0.41
35:DA:1159:U:H5''	35:DA:1159:U:H6	1.85	0.41
53:DU:92:ARG:NH1	54:DV:11:GLN:CG	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:3:THR:CG2	46:BN:4:TYR:N	2.79	0.41
58:DZ:63:ASP:HB2	58:DZ:65:GLN:HG3	2.02	0.41
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.38	0.41
33:D8:36:LYS:O	33:D8:37:SER:O	2.38	0.41
33:D8:59:LYS:HD3	48:DP:50:ARG:HB3	2.02	0.41
3:AC:50:ALA:HA	3:AC:72:LYS:HB3	2.02	0.41
3:CC:80:GLY:HA3	3:CC:82:GLU:OE1	2.20	0.41
30:B5:2:ALA:HB2	35:BA:2015:A:O4'	2.20	0.41
35:DA:1485:G:H8	35:DA:1485:G:H5'	1.85	0.41
35:DA:1485:G:N2	35:DA:1504:C:O2	2.53	0.41
35:DA:2616:C:H2'	35:DA:2616:C:O2	2.21	0.41
35:DA:2167:U:H2'	35:DA:2168:G:O4'	2.20	0.41
1:CA:1239:A:H62	1:CA:1299:A:H62	1.68	0.41
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.38	0.41
30:B5:40:LYS:NZ	30:B5:46:CYS:N	2.59	0.41
51:BS:67:ARG:O	51:BS:70:GLY:N	2.53	0.41
31:D6:15:GLU:N	31:D6:49:HIS:CD2	2.88	0.41
24:CY:590:ILE:HA	24:CY:590:ILE:HD13	1.85	0.41
5:CE:50:GLU:HB3	5:CE:53:LEU:HG	2.02	0.41
35:DA:2031:A:N3	35:DA:2455:G:O2'	2.47	0.41
48:DP:91:PHE:HZ	48:DP:100:LEU:CD1	2.31	0.41
39:DE:34:VAL:HG13	39:DE:34:VAL:O	2.21	0.41
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.65	0.41
58:DZ:17:ALA:HA	58:DZ:20:ARG:CD	2.50	0.41
3:AC:83:ARG:O	3:AC:85:ARG:N	2.53	0.41
1:AA:108:G:N2	1:AA:109:A:H2	2.18	0.41
35:BA:1877:A:H5'	35:BA:1878:G:OP2	2.20	0.41
19:CS:20:LEU:HA	19:CS:23:ASN:CB	2.47	0.41
49:BQ:55:VAL:HG23	58:BZ:178:GLU:HG2	2.01	0.41
15:AO:17:ARG:HD3	15:AO:26:GLU:CG	2.48	0.41
15:AO:24:SER:O	15:AO:25:THR:C	2.57	0.41
42:DH:50:VAL:CG1	42:DH:51:ARG:N	2.83	0.41
52:BT:55:ASN:O	52:BT:55:ASN:CG	2.59	0.41
25:B0:50:ASN:CA	25:B0:62:LEU:HD12	2.41	0.41
4:CD:60:GLU:OE2	4:CD:198:VAL:HA	2.20	0.41
49:DQ:27:VAL:O	49:DQ:28:ALA:CB	2.67	0.41
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.19	0.41
42:DH:19:VAL:CG1	42:DH:20:ALA:N	2.83	0.41
1:AA:1342:C:H1'	9:AI:124:GLN:CG	2.49	0.41
1:AA:625:G:H4'	16:AP:16:HIS:HD2	1.82	0.41
40:BF:134:GLY:HA3	40:BF:165:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:49:VAL:CG1	51:BS:50:SER:H	2.23	0.41
53:DU:107:ALA:HA	53:DU:110:VAL:HG21	2.02	0.41
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.35	0.41
35:DA:2464:C:O2'	35:DA:2465:C:P	2.78	0.41
35:BA:1185:C:H5'	35:BA:1186:G:OP1	2.20	0.41
52:BT:126:ALA:C	52:BT:128:GLU:N	2.73	0.41
46:BN:65:LYS:HB3	46:BN:65:LYS:NZ	2.30	0.41
7:CG:143:ARG:O	7:CG:145:ALA:O	2.38	0.41
24:AY:229:LEU:C	24:AY:231:TYR:N	2.73	0.41
55:BW:14:PRO:CG	55:BW:78:GLU:HB2	2.49	0.41
22:AW:25:U:H2'	22:AW:26:C:H6	1.82	0.41
12:AL:57:LYS:CG	12:AL:67:THR:HG22	2.47	0.41
36:DB:69:G:C2	36:DB:70:C:C2	3.08	0.41
40:BF:89:VAL:O	40:BF:91:GLY:N	2.49	0.41
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.82	0.41
13:AM:16:ASP:N	13:AM:16:ASP:OD2	2.52	0.41
48:BP:110:TYR:O	48:BP:111:ARG:O	2.38	0.41
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	2.01	0.41
1:CA:59:A:H3'	1:CA:331:G:N2	2.35	0.41
1:CA:368:U:P	24:CY:351:ARG:HH11	2.43	0.41
1:AA:1100:C:C2'	1:AA:1101:A:H5''	2.48	0.41
1:AA:1310:G:C2	1:AA:1328:C:N3	2.88	0.41
58:DZ:82:ARG:HG2	58:DZ:82:ARG:HH11	1.84	0.41
35:DA:566:U:O4	54:DV:78:LYS:HE3	2.19	0.41
11:AK:23:ALA:O	11:AK:86:GLY:HA3	2.19	0.41
12:CL:110:VAL:HG21	12:CL:120:TYR:CD2	2.54	0.41
1:CA:1305:G:H5''	21:CU:4:GLY:C	2.40	0.41
35:BA:1640:C:H2'	35:BA:1641:A:O4'	2.20	0.41
35:DA:2832:U:H1'	35:DA:2834:G:C4	2.55	0.41
1:AA:1305:G:H22	1:AA:1331:G:C2'	2.30	0.41
35:DA:657:U:H2'	35:DA:658:C:C5	2.54	0.41
47:DO:103:ALA:O	47:DO:106:LEU:HG	2.19	0.41
4:CD:126:ILE:CD1	4:CD:126:ILE:N	2.83	0.41
38:DD:148:GLU:CB	38:DD:151:LYS:HG3	2.49	0.41
38:BD:73:VAL:O	38:BD:75:ILE:N	2.54	0.41
35:DA:1669:A:C2	35:DA:1994:C:H1'	2.55	0.41
35:BA:1943:U:C2'	35:BA:1943:U:O2	2.67	0.41
20:AT:58:LYS:O	20:AT:59:ALA:C	2.57	0.41
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.36	0.41
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.55	0.41
7:CG:61:VAL:O	7:CG:62:PHE:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:29:ARG:CG	10:CJ:29:ARG:HH11	2.31	0.41
1:AA:123:C:OP1	1:AA:311:C:O2'	2.38	0.41
24:CY:637:ARG:NH1	24:CY:637:ARG:HG3	2.32	0.41
35:DA:2511:U:H4'	39:DE:123:ALA:HB3	2.02	0.41
35:BA:737:C:O2'	35:BA:738:G:H5'	2.20	0.41
11:AK:66:LEU:O	11:AK:67:ASP:C	2.58	0.41
35:DA:438:G:H2'	35:DA:440:G:C8	2.56	0.41
16:AP:9:PHE:HE2	16:AP:18:ARG:CD	2.32	0.41
37:DC:11:LEU:C	37:DC:13:GLU:H	2.22	0.41
58:BZ:100:VAL:HG21	58:BZ:126:VAL:HG21	2.01	0.41
22:CV:24:U:H2'	22:CV:25:C:H6	1.84	0.41
6:AF:15:ASP:O	6:AF:17:SER:N	2.52	0.41
50:DR:48:VAL:O	50:DR:51:LEU:N	2.53	0.41
35:BA:104:U:C6	35:BA:105:C:C6	3.08	0.41
38:BD:165:ILE:HD13	38:BD:175:LEU:CD2	2.49	0.41
35:DA:1956:U:H2'	35:DA:1957:C:H5'	2.02	0.41
1:CA:520:A:N1	1:CA:536:C:H1'	2.35	0.41
8:AH:53:VAL:HB	8:AH:58:TYR:CE1	2.55	0.41
24:AY:484:ARG:CD	24:AY:559:PRO:HB2	2.50	0.41
35:DA:2154:G:H2'	35:DA:2155:G:H8	1.85	0.41
50:BR:88:ARG:HD2	50:BR:88:ARG:O	2.20	0.41
4:CD:68:TYR:O	4:CD:69:GLY:C	2.58	0.41
35:BA:2003:G:C6	35:BA:2004:G:C5	3.08	0.41
35:BA:452:G:N3	35:BA:457:A:H2	2.18	0.41
1:AA:573:A:C2	1:AA:574:A:C2	3.08	0.41
24:AY:145:ASP:HB3	24:AY:148:LEU:HB2	2.02	0.41
35:DA:2384:G:H2'	35:DA:2386:C:OP1	2.20	0.41
1:CA:282:A:H3'	1:CA:283:C:C6	2.55	0.41
26:B1:71:TYR:N	26:B1:71:TYR:CD1	2.88	0.41
3:AC:120:VAL:O	3:AC:121:ALA:C	2.57	0.41
2:AB:23:ARG:HA	2:AB:23:ARG:HD2	1.88	0.41
58:BZ:78:LYS:N	58:BZ:78:LYS:HD3	2.35	0.41
35:DA:1830:C:O5'	35:DA:1830:C:H6	2.03	0.41
35:BA:1147:C:H2'	35:BA:1148:A:H8	1.85	0.41
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.19	0.41
35:DA:1024:G:C8	35:DA:1025:G:H2'	2.55	0.41
15:AO:67:LEU:HA	15:AO:67:LEU:HD23	1.88	0.41
55:DW:26:GLY:HA2	55:DW:71:VAL:O	2.19	0.41
35:BA:2093:G:C6	35:BA:2225:A:C8	3.08	0.41
56:BX:53:LYS:HB3	56:BX:82:GLN:HB3	2.02	0.41
40:BF:179:GLU:O	40:BF:181:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2051:A:N6	35:DA:2614:A:C8	2.88	0.41
24:AY:209:ALA:O	24:AY:211:GLU:N	2.54	0.41
24:AY:17:ILE:HG21	24:AY:25:LYS:HA	2.01	0.41
40:BF:29:ASN:HB3	40:BF:32:LEU:HB3	2.03	0.41
53:DU:50:ARG:HH11	54:DV:70:ILE:CG2	2.33	0.41
53:DU:76:TYR:O	53:DU:79:PHE:HB3	2.20	0.41
24:AY:10:LYS:HE2	24:AY:284:LEU:HD23	2.02	0.41
24:AY:420:ASP:C	24:AY:422:GLU:N	2.72	0.41
24:AY:434:GLU:O	24:AY:435:ASP:HB2	2.20	0.41
38:DD:34:VAL:O	38:DD:36:PRO:CD	2.68	0.41
33:B8:49:VAL:O	33:B8:53:PRO:HD3	2.20	0.41
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH1	2.86	0.41
57:DY:99:CYS:SG	57:DY:99:CYS:O	2.79	0.41
29:D4:28:LYS:HA	29:D4:28:LYS:HE3	2.01	0.41
41:DG:136:ARG:O	41:DG:153:ARG:O	2.38	0.41
58:BZ:166:SER:HB2	58:BZ:168:GLU:N	2.33	0.41
35:DA:1902:C:H1'	38:DD:244:ARG:HG3	2.02	0.41
3:AC:72:LYS:HE3	3:AC:72:LYS:C	2.40	0.41
50:DR:78:LYS:O	50:DR:78:LYS:HG2	2.20	0.41
50:DR:83:ILE:HG22	50:DR:83:ILE:O	2.20	0.41
1:CA:1298:C:C2'	1:CA:1298:C:O2	2.61	0.41
40:DF:10:PRO:CG	40:DF:13:SER:OG	2.69	0.41
40:DF:7:TYR:CD2	40:DF:16:GLY:HA3	2.35	0.41
31:D6:17:LYS:CB	31:D6:44:ARG:NH1	2.83	0.41
50:BR:78:LYS:HG2	50:BR:78:LYS:O	2.20	0.41
24:AY:273:LEU:HA	24:AY:276:VAL:CG2	2.50	0.41
24:AY:75:LYS:O	24:AY:77:HIS:CD2	2.72	0.41
35:DA:1156:A:O2'	35:DA:1157:G:OP1	2.34	0.41
35:BA:1819:A:O2'	35:BA:1820:U:P	2.78	0.41
18:CR:36:ASN:OD1	18:CR:39:VAL:HB	2.20	0.41
35:DA:1251:C:OP2	53:DU:10:ARG:NE	2.52	0.41
2:CB:117:GLU:O	2:CB:120:ALA:HB3	2.20	0.41
48:BP:83:VAL:H	48:BP:115:LEU:HD23	1.83	0.41
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.08	0.41
35:BA:2309:A:H2'	35:BA:2310:A:C5'	2.50	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:HD11	2.02	0.41
44:BK:99:ILE:HD12	44:BK:103:GLN:CB	2.47	0.41
35:DA:1495:A:H2'	35:DA:1496:A:C2	2.55	0.41
1:AA:1055:A:H8	1:AA:1055:A:O5'	2.04	0.41
13:AM:49:THR:HG22	13:AM:51:ALA:N	2.16	0.41
39:BE:31:CYS:O	39:BE:91:VAL:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.20	0.41
52:DT:120:ARG:O	52:DT:124:ASP:OD1	2.38	0.41
1:CA:1250:A:C2	1:CA:1251:A:C4	3.08	0.41
29:D4:30:GLU:C	29:D4:31:ILE:HD12	2.39	0.41
50:BR:38:VAL:HB	50:BR:39:PRO:CD	2.36	0.41
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.80	0.41
2:AB:187:LEU:HD21	2:AB:214:ILE:HG13	2.02	0.41
35:DA:1877:A:H5'	35:DA:1878:G:OP2	2.21	0.41
13:CM:81:LEU:HD22	13:CM:81:LEU:H	1.82	0.41
35:BA:2762:G:C5'	35:BA:2762:G:C8	3.01	0.41
15:AO:82:ILE:O	15:AO:82:ILE:HD13	2.20	0.41
42:BH:50:VAL:CG1	42:BH:51:ARG:N	2.83	0.41
26:B1:4:VAL:HG22	26:B1:5:CYS:N	2.35	0.41
58:DZ:129:SER:CB	58:DZ:131:ARG:HD2	2.50	0.41
42:BH:120:GLY:C	42:BH:121:ILE:HG13	2.40	0.41
55:DW:29:LEU:HD11	55:DW:51:LEU:CD1	2.41	0.41
12:AL:44:THR:HA	12:AL:45:PRO:HD3	1.82	0.41
12:AL:46:LYS:NZ	12:AL:94:PRO:HG3	2.34	0.41
1:AA:1026:G:H3'	1:AA:1027:C:H5'	2.01	0.41
27:B2:48:HIS:CG	27:B2:49:LYS:N	2.89	0.41
35:BA:1314:C:OP1	35:BA:1315:C:OP2	2.38	0.41
35:DA:8:A:H2'	35:DA:9:U:C6	2.55	0.41
30:D5:26:THR:HA	30:D5:27:PRO:HD3	1.96	0.41
35:DA:1128:A:C8	35:DA:2518:A:N6	2.88	0.41
35:BA:2513:G:C5	35:BA:2514:U:C4	3.08	0.41
35:BA:2777:G:C5'	35:BA:2778:A:H5''	2.50	0.41
35:DA:881:G:H2'	35:DA:882:G:C5'	2.50	0.41
35:BA:654(S):G:H3'	35:BA:654(T):C:C4'	2.50	0.41
35:BA:877:U:C2'	35:BA:878:A:H5''	2.50	0.41
16:AP:75:ARG:C	16:AP:77:ALA:N	2.74	0.41
47:DO:31:LYS:HB3	47:DO:32:TYR:CE1	2.54	0.41
35:BA:856:C:H2'	35:BA:857:C:C6	2.55	0.41
1:AA:674:G:O4'	18:AR:81:PHE:CE1	2.74	0.41
28:D3:40:THR:O	28:D3:44:ARG:HG3	2.19	0.41
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.21	0.41
13:CM:16:ASP:OD2	13:CM:16:ASP:N	2.52	0.41
4:CD:179:GLU:C	4:CD:181:MET:H	2.24	0.41
12:CL:7:ILE:CG2	12:CL:8:ASN:N	2.82	0.41
35:BA:481:G:HO2'	35:BA:482:A:H8	1.68	0.41
27:B2:22:GLU:C	27:B2:24:LEU:N	2.74	0.41
25:B0:73:GLY:C	25:B0:75:LEU:N	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:H5''	13:AM:26:GLY:N	2.36	0.41
22:AV:69:C:O2'	22:AV:70:G:H5'	2.21	0.41
37:DC:119:ASP:OD1	37:DC:120:VAL:HG13	2.21	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:N	2.83	0.41
35:BA:775:G:C4	35:BA:794:G:C8	3.08	0.41
42:DH:124:GLU:HB2	42:DH:132:ARG:CG	2.49	0.41
1:CA:318:G:O2'	1:CA:319:G:H5'	2.20	0.41
35:BA:2688:U:H5	35:BA:2720:U:OP1	2.03	0.41
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.02	0.41
1:CA:1245:A:C2	1:CA:1293:G:C2	3.08	0.41
1:AA:748:C:O2'	1:AA:749:C:H6	2.03	0.41
50:DR:18:LEU:C	50:DR:20:LEU:N	2.74	0.41
35:BA:2349:G:H5'	35:BA:2349:G:H8	1.85	0.41
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.20	0.41
35:BA:2248:C:H2'	35:BA:2249:U:C5'	2.50	0.41
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.67	0.41
35:DA:2078:C:C1'	35:DA:2434:A:H1'	2.51	0.41
22:AW:50:G:H8	22:AW:50:G:O5'	2.03	0.41
35:DA:1499:C:C2'	35:DA:1500:G:H5'	2.50	0.41
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.35	0.41
24:CY:580:MET:SD	35:DA:1913:A:N6	2.94	0.41
1:CA:913:A:H4'	1:CA:914:A:OP1	2.21	0.41
35:DA:1930:G:O2'	35:DA:1931:U:OP2	2.38	0.41
35:BA:2202:C:H2'	38:BD:151:LYS:HZ1	1.83	0.41
22:CW:70:C:H2'	22:CW:71:G:O4'	2.20	0.41
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.20	0.41
37:DC:178:LYS:HG2	37:DC:181:PHE:CE1	2.55	0.41
58:DZ:4:ARG:HH12	58:DZ:66:SER:HB2	1.85	0.41
35:DA:436:C:H2'	35:DA:437:G:C8	2.56	0.41
37:BC:10:ALA:O	37:BC:13:GLU:HG2	2.21	0.41
43:BJ:48:UNK:O	43:BJ:90:UNK:CB	2.67	0.41
35:DA:2624:G:O2'	35:DA:2625:G:H5'	2.20	0.41
1:CA:948:C:H2'	1:CA:949:A:C8	2.56	0.41
35:DA:444:C:H2'	35:DA:445:C:H6	1.85	0.41
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.50	0.41
15:AO:27:VAL:O	15:AO:31:LEU:HD23	2.20	0.41
7:CG:21:VAL:HG23	7:CG:22:LEU:N	2.36	0.41
35:DA:270:A:O2'	35:DA:271:A:H5'	2.19	0.41
9:AI:97:LYS:O	9:AI:98:PRO:C	2.59	0.41
15:AO:29:VAL:HG11	15:AO:67:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:22:GLY:O	51:BS:23:ARG:O	2.39	0.41
6:CF:95:GLU:HA	6:CF:96:PRO:HD3	1.89	0.41
35:BA:2072:G:C2	35:BA:2073:C:C2	3.08	0.41
9:CI:99:LEU:HD22	9:CI:99:LEU:N	2.36	0.41
35:BA:2460:U:H2'	35:BA:2460:U:O2	2.20	0.41
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.90	0.41
2:CB:23:ARG:HA	2:CB:23:ARG:HD2	1.85	0.41
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.36	0.41
35:BA:1945:G:N3	35:BA:1945:G:H2'	2.33	0.41
8:AH:36:LEU:O	8:AH:37:ARG:C	2.59	0.41
37:BC:226:ASN:HA	37:BC:227:PRO:HD2	1.84	0.41
35:DA:1203:G:OP2	35:DA:1204:A:H2'	2.21	0.41
40:DF:117:ARG:NH1	40:DF:120:GLU:OE1	2.53	0.41
24:AY:617:MET:O	24:AY:618:GLY:C	2.57	0.41
29:B4:3:GLU:CG	36:BB:43:C:OP1	2.67	0.41
41:BG:181:ARG:HH11	41:BG:181:ARG:HG3	1.84	0.41
41:BG:55:LYS:HD3	41:BG:55:LYS:C	2.41	0.41
41:BG:98:ARG:N	41:BG:98:ARG:NH1	2.65	0.41
23:AX:13:A:H2'	23:AX:14:A:H5''	2.02	0.41
40:BF:177:ALA:HB1	40:BF:178:PRO:CD	2.50	0.41
39:DE:131:ALA:HB3	39:DE:134:ILE:CD1	2.17	0.41
24:AY:238:THR:C	24:AY:240:GLU:N	2.74	0.41
58:DZ:120:ILE:CG2	58:DZ:120:ILE:O	2.67	0.41
35:BA:1204:A:H1'	35:BA:1206:G:N7	2.35	0.41
38:DD:34:VAL:O	38:DD:36:PRO:HD2	2.21	0.41
1:AA:981:U:H2'	1:AA:982:U:C5	2.56	0.41
57:DY:90:LEU:HB2	57:DY:91:GLU:OE2	2.20	0.41
35:DA:272(J):C:N4	35:DA:363:G:H22	2.19	0.41
31:D6:10:LEU:N	31:D6:10:LEU:HD23	2.31	0.41
31:D6:27:LYS:HB3	31:D6:30:THR:CG2	2.51	0.41
33:D8:19:SER:HB2	33:D8:21:LYS:HG3	2.01	0.41
48:DP:47:ASP:CB	48:DP:48:PRO:CA	2.93	0.41
58:BZ:54:HIS:HA	58:BZ:98:MET:CE	2.50	0.41
57:BY:96:ILE:CD1	57:BY:99:CYS:SG	3.06	0.41
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	2.02	0.41
51:BS:74:ALA:CB	51:BS:103:GLU:HB2	2.46	0.41
3:CC:60:ALA:N	3:CC:63:ASN:OD1	2.51	0.41
35:BA:26:G:H1'	35:BA:515:A:N6	2.31	0.41
35:DA:948:G:OP1	35:DA:962:G:OP1	2.39	0.41
35:DA:968:G:C6	35:DA:969:U:C4	3.08	0.41
1:CA:1103:C:C5'	2:CB:98:LEU:HD13	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:45:ASN:N	46:BN:45:ASN:ND2	2.54	0.41
1:AA:1502:A:C2	1:AA:1505:G:N1	2.60	0.41
2:AB:114:ARG:O	2:AB:117:GLU:HB2	2.21	0.41
35:DA:1348:G:C3'	35:DA:1349:A:H5''	2.48	0.41
39:BE:51:PHE:HD1	39:BE:52:LEU:N	2.16	0.41
51:DS:63:THR:O	51:DS:66:ALA:N	2.53	0.41
52:BT:92:GLY:C	52:BT:94:ALA:H	2.24	0.41
27:B2:38:GLN:CA	27:B2:41:ILE:HG12	2.50	0.41
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.35	0.41
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.55	0.41
2:AB:17:PHE:HB3	2:AB:44:LEU:CD2	2.45	0.41
2:AB:211:ILE:HG13	2:AB:211:ILE:H	1.70	0.41
52:BT:29:ARG:CD	52:BT:86:ILE:HG22	2.48	0.41
1:CA:1014:A:C2	19:CS:34:TRP:CE2	3.08	0.41
35:DA:2103:C:N4	35:DA:2186:G:H1	2.19	0.41
17:AQ:52:LYS:HD2	17:AQ:52:LYS:N	2.20	0.41
17:AQ:52:LYS:CD	17:AQ:55:ASP:OD2	2.68	0.41
47:BO:22:ILE:O	47:BO:23:ARG:HB3	2.19	0.41
42:BH:41:MET:HG3	42:BH:42:ARG:N	2.36	0.41
52:DT:2:ASN:O	52:DT:4:GLY:N	2.53	0.41
26:D1:86:SER:HB2	26:D1:90:ILE:CG1	2.47	0.41
13:CM:23:TYR:O	13:CM:66:LEU:HB3	2.20	0.41
57:BY:62:GLU:HG2	57:BY:63:LYS:N	2.28	0.41
35:BA:1676:A:H2'	35:BA:1677:A:O4'	2.20	0.41
38:BD:21:PHE:O	38:BD:24:ILE:HG23	2.20	0.41
10:AJ:61:GLU:OE2	14:AN:45:ARG:NH1	2.51	0.41
35:DA:1654:A:C2	39:DE:113:PHE:HD1	2.37	0.41
58:BZ:24:LEU:C	58:BZ:24:LEU:HD23	2.41	0.41
24:CY:264:LEU:HD23	24:CY:265:LYS:HD3	2.02	0.41
12:AL:33:ARG:CG	12:AL:60:LEU:HD12	2.50	0.41
51:BS:47:THR:HG22	51:BS:49:VAL:O	2.19	0.41
12:CL:27:LEU:C	12:CL:29:GLY:H	2.24	0.41
1:CA:1122:U:H2'	1:CA:1123:A:H5'	2.02	0.41
12:CL:20:LYS:CD	12:CL:20:LYS:N	2.83	0.41
1:AA:1298:C:O2'	1:AA:1299:A:C2	2.74	0.41
35:BA:2664:G:C2'	35:BA:2665:A:O5'	2.68	0.41
34:B9:29:ASN:C	34:B9:31:LYS:H	2.24	0.41
35:BA:1276:A:C1'	50:BR:16:HIS:HE1	2.33	0.41
20:AT:49:ALA:HB3	20:AT:99:LEU:CD1	2.50	0.41
1:AA:176:C:C2	1:AA:177:C:C5	3.08	0.41
24:AY:232:LEU:HD22	24:AY:232:LEU:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:43:LEU:O	20:CT:44:ALA:C	2.58	0.41
56:BX:63:LYS:HB3	56:BX:72:LYS:HG2	2.03	0.41
35:DA:1175:U:P	35:DA:1176:G:H5''	2.61	0.41
1:CA:1100:C:C2'	1:CA:1101:A:H5''	2.48	0.41
16:AP:53:VAL:CG2	16:AP:54:GLU:H	2.29	0.41
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.21	0.41
35:BA:760:G:H2'	35:BA:761:A:H5'	2.02	0.41
35:DA:88:G:OP1	35:DA:90:U:C5	2.63	0.41
27:D2:59:ARG:HB3	35:DA:77:C:H5'	2.01	0.41
42:BH:128:PRO:HG2	42:BH:129:THR:HG23	2.02	0.41
11:CK:121:PRO:HB2	11:CK:126:ARG:HB2	2.02	0.41
35:BA:88:G:N3	35:BA:88:G:H2'	2.36	0.41
28:D3:35:ARG:CD	28:D3:37:LEU:HD21	2.50	0.41
1:CA:1347:G:H2'	1:CA:1373:G:H1	1.85	0.41
35:DA:603:A:O2'	35:DA:604:G:OP1	2.35	0.41
49:BQ:75:THR:CG2	49:BQ:76:LYS:H	2.34	0.41
35:BA:2397:G:H2'	35:BA:2398:U:C6	2.56	0.41
41:DG:11:TYR:OH	41:DG:33:ARG:HB3	2.20	0.41
35:DA:1834:U:O3'	35:DA:1835:G:H8	2.04	0.41
35:DA:1073:A:H2'	35:DA:1074:G:H5'	2.01	0.41
30:B5:16:ARG:HG2	30:B5:16:ARG:HH11	1.84	0.41
24:CY:197:ARG:O	24:CY:199:ILE:HG23	2.20	0.41
24:CY:334:THR:HG21	24:CY:368:GLU:HB2	2.02	0.41
36:DB:18:G:H2'	36:DB:19:G:C8	2.50	0.41
19:AS:61:TYR:CG	19:AS:62:ILE:N	2.88	0.41
32:D7:39:ARG:NH2	35:DA:468:G:N7	2.63	0.41
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.21	0.41
35:BA:463:G:C2	35:BA:467:G:C6	3.08	0.41
3:CC:141:VAL:O	3:CC:144:SER:N	2.53	0.41
3:CC:141:VAL:CG1	3:CC:146:ALA:HB3	2.51	0.41
5:CE:100:VAL:O	5:CE:100:VAL:CG2	2.68	0.41
7:CG:104:LEU:HA	7:CG:104:LEU:HD13	1.91	0.41
35:BA:436:C:H2'	35:BA:437:G:C8	2.56	0.41
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HB2	2.49	0.41
8:AH:32:LYS:O	8:AH:33:GLU:C	2.58	0.41
22:CW:19:G:OP1	37:DC:168:LYS:NZ	2.54	0.41
1:CA:110:C:H2'	1:CA:111:G:O4'	2.21	0.41
28:D3:1:MET:HB3	28:D3:2:PRO:HD2	2.02	0.41
50:DR:52:ILE:HG21	50:DR:94:TYR:CG	2.55	0.41
35:DA:1131:G:N3	35:DA:1132:A:C8	2.87	0.41
25:B0:23:VAL:HA	25:B0:38:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:149:LEU:HD23	2:CB:149:LEU:HA	1.85	0.41
1:AA:238:G:O2'	1:AA:239:U:H5'	2.21	0.41
9:AI:51:ARG:HG3	9:AI:56:LEU:HD12	2.03	0.41
7:CG:57:GLU:O	7:CG:58:PRO:C	2.58	0.41
43:DJ:50:UNK:O	43:DJ:51:UNK:CB	2.68	0.41
1:CA:398:C:H2'	1:CA:399:G:C8	2.54	0.41
7:AG:50:ILE:HG21	7:AG:58:PRO:HA	2.03	0.41
36:BB:4:C:H2'	36:BB:5:C:C6	2.54	0.41
35:DA:2154:G:H21	35:DA:2155:G:H1'	1.86	0.41
26:B1:71:TYR:HA	26:B1:74:VAL:HG23	2.03	0.41
24:CY:543:GLN:O	24:CY:547:GLU:HB2	2.20	0.41
7:CG:31:MET:SD	7:CG:36:LYS:HB2	2.60	0.41
52:DT:78:LEU:HB3	52:DT:79:HIS:ND1	2.35	0.41
22:CV:72:A:H2'	22:CV:73:A:C8	2.56	0.41
7:CG:52:GLU:O	7:CG:53:LYS:C	2.58	0.41
35:BA:1645:G:OP1	35:BA:1646:C:H5'	2.20	0.41
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	2.01	0.41
44:BK:33:ASN:C	44:BK:35:MET:H	2.24	0.41
35:BA:2128:C:OP1	37:BC:37:LYS:N	2.52	0.41
35:BA:836:G:C5	35:BA:837:C:C4	3.08	0.41
35:BA:1118:C:H2'	35:BA:1119:C:C6	2.56	0.41
9:CI:77:ILE:O	9:CI:78:LYS:C	2.58	0.41
35:DA:669:G:C2'	35:DA:669:G:N3	2.84	0.41
42:DH:130:ARG:HB3	42:DH:130:ARG:NH1	2.35	0.41
4:CD:73:ARG:HD3	4:CD:73:ARG:HA	1.76	0.41
35:DA:1142:U:O5'	35:DA:1142:U:H6	2.04	0.41
24:CY:500:GLN:HB2	24:CY:500:GLN:HE21	1.66	0.41
9:CI:90:PRO:HG2	9:CI:91:ASP:H	1.85	0.41
42:DH:173:PRO:HG2	42:DH:174:GLY:H	1.85	0.41
40:DF:28:ILE:N	40:DF:28:ILE:CD1	2.83	0.41
40:DF:31:HIS:O	40:DF:32:LEU:C	2.59	0.41
40:DF:187:VAL:CG1	48:DP:7:ARG:NH2	2.83	0.41
24:AY:622:GLY:O	24:AY:623:ASP:C	2.58	0.41
4:CD:11:LEU:C	4:CD:13:ARG:N	2.69	0.41
24:CY:670:VAL:HB	24:CY:672:PHE:CE1	2.54	0.41
24:AY:111:SER:OG	24:AY:141:LYS:HB3	2.20	0.41
24:AY:20:HIS:CG	24:AY:117:GLN:HB3	2.55	0.41
24:AY:117:GLN:O	24:AY:117:GLN:OE1	2.38	0.41
24:AY:124:GLN:HA	24:AY:127:LYS:HD2	2.03	0.41
53:DU:57:PHE:O	53:DU:59:ARG:N	2.54	0.41
53:BU:92:ARG:NH1	54:BV:11:GLN:CG	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1568:G:H4'	38:DD:59:LYS:HB3	2.02	0.41
35:BA:664:C:H4'	35:BA:941:A:OP1	2.19	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:NH2	2.74	0.41
35:BA:301:G:C4	35:BA:302:C:C5	3.09	0.41
31:D6:29:ASN:O	31:D6:30:THR:C	2.59	0.41
41:DG:55:LYS:O	41:DG:57:ALA:N	2.53	0.41
10:CJ:32:ALA:HB1	10:CJ:76:ASN:HB3	2.01	0.41
38:BD:245:PRO:O	38:BD:245:PRO:HG2	2.20	0.41
5:AE:143:ARG:NH1	8:AH:77:GLU:CD	2.74	0.41
30:D5:2:ALA:HB2	35:DA:2015:A:O4'	2.20	0.41
30:D5:2:ALA:N	35:DA:2015:A:C1'	2.83	0.41
37:DC:115:VAL:CG1	37:DC:145:THR:HG23	2.47	0.41
47:DO:112:MET:O	47:DO:113:LYS:C	2.58	0.41
51:BS:63:THR:O	51:BS:64:GLU:C	2.59	0.41
31:D6:41:PRO:HD3	31:D6:47:THR:HG22	2.01	0.41
50:BR:55:ALA:HB2	50:BR:79:LEU:CD1	2.49	0.41
24:AY:590:ILE:C	24:AY:592:GLU:N	2.73	0.41
35:DA:28:A:H1'	35:DA:513:A:C2	2.56	0.41
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.43	0.41
26:B1:90:ILE:HG22	26:B1:94:LEU:HD11	2.02	0.41
35:DA:1038:C:H3'	35:DA:1039:G:C5'	2.36	0.41
48:BP:98:GLU:H	48:BP:101:VAL:HG13	1.86	0.41
44:BK:30:HIS:CA	44:BK:59:ILE:HD12	2.39	0.41
35:BA:2786:U:O2'	39:BE:62:PRO:HA	2.21	0.41
58:DZ:14:LYS:HB2	58:DZ:17:ALA:CB	2.50	0.41
13:AM:89:GLY:O	13:AM:90:LEU:O	2.39	0.41
2:AB:17:PHE:H	2:AB:17:PHE:HD2	1.69	0.41
24:AY:16:GLY:N	24:AY:101:LEU:CD1	2.83	0.41
24:AY:289:ILE:HD11	24:AY:331:TYR:CZ	2.55	0.41
9:CI:114:TYR:O	9:CI:114:TYR:CD2	2.74	0.41
5:CE:12:LEU:CD1	5:CE:31:LEU:CB	2.99	0.41
19:CS:19:VAL:HG12	19:CS:20:LEU:N	2.34	0.41
1:CA:253:U:H2'	1:CA:254:G:C8	2.55	0.41
1:CA:1505:G:H5'	1:CA:1506:U:OP1	2.20	0.41
57:DY:44:ILE:O	57:DY:62:GLU:HB3	2.20	0.41
39:BE:25:VAL:HG22	39:BE:183:LEU:HG	2.02	0.41
2:CB:21:ARG:O	2:CB:22:LYS:HB2	2.20	0.41
26:B1:4:VAL:CG2	26:B1:10:LYS:O	2.66	0.41
58:DZ:128:VAL:CG1	58:DZ:132:ASN:O	2.69	0.41
1:CA:1495:U:O2'	35:DA:1919:A:N1	2.48	0.41
58:BZ:81:ARG:CZ	58:BZ:81:ARG:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1948:G:H8	35:DA:1948:G:C5'	2.32	0.41
1:AA:1511:G:C6	1:AA:1512:U:C4	3.08	0.41
2:CB:12:GLU:CA	2:CB:16:HIS:ND1	2.83	0.41
41:BG:15:VAL:HG22	41:BG:175:LEU:O	2.20	0.41
19:CS:9:VAL:C	19:CS:11:VAL:N	2.73	0.41
35:BA:2000:G:OP2	50:BR:3:HIS:HE1	2.03	0.41
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.29	0.41
13:AM:23:TYR:O	13:AM:66:LEU:HB3	2.20	0.41
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.35	0.41
36:DB:81:G:O6	36:DB:96:U:O2	2.38	0.41
50:BR:41:ALA:C	50:BR:43:GLU:H	2.22	0.41
4:AD:205:GLU:OE1	5:AE:100:VAL:HG22	2.20	0.41
1:AA:1202:G:H2'	1:AA:1203:C:C5'	2.51	0.41
16:AP:75:ARG:O	16:AP:77:ALA:N	2.52	0.41
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	2.20	0.41
20:AT:44:ALA:O	20:AT:92:LEU:HD23	2.20	0.41
35:DA:750:A:C3'	35:DA:751:A:H5''	2.50	0.41
20:CT:44:ALA:HA	20:CT:92:LEU:HD21	2.02	0.41
35:DA:1430:C:H42	35:DA:1563:G:H1	1.68	0.41
35:BA:2455:G:H2'	35:BA:2456:C:H6	1.79	0.41
35:BA:1741:A:H2'	35:BA:1742:G:O4'	2.20	0.41
20:CT:73:HIS:O	20:CT:74:LYS:O	2.37	0.41
37:BC:139:PRO:HA	37:BC:145:THR:HG21	2.03	0.41
39:DE:7:VAL:HG13	39:DE:7:VAL:O	2.20	0.41
35:BA:2557:G:H2'	35:BA:2558:C:C6	2.55	0.41
24:CY:415:PRO:CG	24:CY:421:GLN:HG2	2.51	0.41
3:AC:206:GLU:O	3:AC:208:ILE:N	2.53	0.41
37:BC:48:LEU:N	37:BC:48:LEU:CD1	2.82	0.41
1:CA:1347:G:H1'	1:CA:1348:U:H5	1.86	0.41
27:B2:58:ALA:O	27:B2:62:THR:N	2.48	0.41
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.55	0.41
38:DD:28:GLU:CD	38:DD:28:GLU:N	2.73	0.41
1:CA:955:U:H2'	1:CA:956:U:C6	2.56	0.41
42:BH:35:VAL:HG21	42:BH:75:ALA:CB	2.51	0.41
1:CA:151:A:H2'	1:CA:152:A:H5'	2.02	0.41
35:BA:118:A:H5'	35:BA:119:A:H8	1.86	0.41
50:DR:28:LEU:HD23	50:DR:29:LEU:HD12	2.00	0.41
52:BT:100:TYR:CD1	52:BT:100:TYR:N	2.89	0.41
7:AG:61:VAL:O	7:AG:64:GLN:HB3	2.20	0.41
35:DA:36:G:H2'	35:DA:37:C:H6	1.85	0.41
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:44:G:C2	1:CA:45:U:H1'	2.55	0.41
1:AA:51:A:H4'	1:AA:52:G:C5'	2.51	0.41
1:CA:1061:G:H1'	10:CJ:56:HIS:CE1	2.56	0.41
8:CH:38:ILE:O	8:CH:39:LEU:C	2.58	0.41
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.85	0.41
1:AA:318:G:C2	1:AA:336:C:N3	2.88	0.41
6:CF:29:ALA:O	6:CF:30:LEU:C	2.59	0.41
9:AI:35:GLU:HA	9:AI:38:GLN:HB2	2.01	0.41
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.83	0.41
7:AG:21:VAL:HG23	7:AG:22:LEU:H	1.85	0.41
35:BA:2288:A:C2	35:BA:2325:G:N7	2.88	0.41
35:DA:414:C:O2	35:DA:1864:U:O2'	2.26	0.41
35:DA:152:G:H1	35:DA:174:C:H42	1.68	0.41
2:CB:160:ASP:O	2:CB:161:ALA:HB2	2.20	0.41
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.50	0.41
4:AD:68:TYR:O	4:AD:69:GLY:C	2.59	0.41
22:AW:55:5MU:H2'	22:AW:56:U:C6	2.55	0.41
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.83	0.41
14:CN:32:SER:O	14:CN:40:CYS:HA	2.20	0.41
42:BH:169:VAL:O	42:BH:170:ARG:CG	2.68	0.41
29:B4:27:THR:O	29:B4:28:LYS:CB	2.69	0.41
1:CA:408:A:H4'	4:CD:112:VAL:HG11	2.01	0.41
1:CA:429:U:OP1	4:CD:9:CYS:O	2.39	0.41
24:CY:142:THR:C	24:CY:144:ALA:N	2.74	0.41
40:BF:184:TYR:O	40:BF:188:ARG:HG2	2.21	0.41
35:DA:2579:C:H2'	35:DA:2580:U:O4'	2.20	0.41
10:CJ:4:ILE:HD13	10:CJ:74:ILE:CG1	2.43	0.41
40:BF:31:HIS:O	40:BF:34:TRP:HB3	2.20	0.41
35:BA:559:G:N2	53:BU:49:HIS:CD2	2.85	0.41
53:BU:53:ARG:O	53:BU:54:LYS:C	2.57	0.41
53:BU:55:ARG:HA	53:BU:58:ARG:CB	2.50	0.41
58:DZ:44:PHE:CZ	58:DZ:48:PHE:HD2	2.39	0.41
40:DF:157:VAL:CG2	40:DF:194:MET:HA	2.50	0.41
31:D6:7:ILE:HG23	31:D6:29:ASN:HD22	1.85	0.41
31:D6:53:LYS:HG3	31:D6:54:ILE:H	1.85	0.41
35:BA:212:G:O2'	35:BA:213:A:H5'	2.21	0.41
1:CA:1001(A):G:H8	1:CA:1002:G:C8	2.38	0.41
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	2.02	0.41
37:DC:114:VAL:O	37:DC:139:PRO:HG3	2.21	0.41
24:CY:274:ASP:O	24:CY:277:VAL:HG12	2.20	0.41
35:BA:2345:G:H5'	35:BA:2346:A:H5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2380:C:C4	35:BA:2381:C:C5	3.09	0.41
31:D6:43:CYS:O	31:D6:44:ARG:CB	2.64	0.41
44:DK:125:ARG:HG2	44:DK:125:ARG:HH11	1.85	0.41
24:CY:546:ILE:HG21	24:CY:565:VAL:HG21	2.02	0.41
53:BU:13:LYS:O	53:BU:17:ILE:HG13	2.21	0.41
40:BF:78:ILE:H	40:BF:78:ILE:HG12	1.64	0.41
48:DP:147:LEU:C	48:DP:148:LEU:HD12	2.41	0.41
48:BP:88:LEU:HD11	48:BP:95:VAL:HG11	2.02	0.41
39:DE:59:VAL:HG11	39:DE:63:LEU:HA	2.02	0.41
1:CA:973:G:O4'	10:CJ:55:LYS:CG	2.60	0.41
35:BA:1495:A:H2'	35:BA:1496:A:C2	2.55	0.41
29:D4:31:ILE:HG22	29:D4:31:ILE:O	2.20	0.41
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.18	0.41
50:DR:45:ARG:O	50:DR:46:GLY:C	2.59	0.41
3:AC:77:ILE:O	3:AC:84:ILE:HG22	2.20	0.41
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.56	0.41
44:BK:12:LEU:HA	44:BK:13:PRO:HD3	1.85	0.41
57:DY:11:ASP:O	57:DY:27:VAL:HA	2.21	0.41
38:DD:158:ALA:O	38:DD:196:VAL:CG1	2.67	0.41
42:BH:17:VAL:O	42:BH:45:VAL:CG2	2.62	0.41
2:AB:39:ILE:O	2:AB:41:ILE:HD13	2.20	0.41
46:DN:91:LEU:HD21	46:DN:98:VAL:HG11	2.02	0.41
44:DK:10:LEU:HD11	44:DK:27:LEU:HD11	2.01	0.41
50:DR:117:VAL:CG1	50:DR:118:GLU:H	2.32	0.41
52:DT:8:LYS:C	52:DT:10:VAL:H	2.24	0.41
1:CA:297:G:N2	1:CA:299:G:H3'	2.36	0.41
47:DO:69:ILE:HB	47:DO:77:ILE:CG2	2.51	0.41
35:DA:94:C:O2	35:DA:94:C:H2'	2.20	0.41
35:DA:1314:C:C6	35:DA:1314:C:H5'	2.37	0.41
35:DA:2388:A:H5'	35:DA:2389:G:OP2	2.20	0.41
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.86	0.41
38:DD:177:LEU:O	38:DD:179:SER:N	2.54	0.41
1:CA:1026:G:H3'	1:CA:1027:C:H5'	2.02	0.41
1:AA:791:G:N2	1:AA:1497:G:O3'	2.48	0.41
35:DA:862:G:H2'	35:DA:863:A:O4'	2.19	0.41
35:DA:1052:C:O2'	35:DA:1053:C:P	2.79	0.41
1:AA:1122:U:H2'	1:AA:1123:A:C5'	2.50	0.41
11:CK:58:PRO:O	11:CK:59:TYR:C	2.58	0.41
35:BA:1052:C:O2'	35:BA:1053:C:P	2.78	0.41
35:BA:881:G:H2'	35:BA:882:G:C5'	2.51	0.41
35:DA:532:A:N1	35:DA:2020:A:H1'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2593:U:C2	35:BA:2594:C:C5	3.09	0.41
32:B7:48:LYS:NZ	35:BA:125:G:H21	2.18	0.41
35:BA:748:G:C8	55:BW:89:ALA:HB1	2.56	0.41
35:BA:120:U:C5'	35:BA:121:G:OP1	2.68	0.41
1:CA:674:G:O4'	18:CR:81:PHE:CE1	2.73	0.41
12:AL:7:ILE:HA	12:AL:10:LEU:HD12	2.03	0.41
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.54	0.41
53:BU:25:TRP:CD1	53:BU:26:GLY:N	2.89	0.41
27:B2:20:GLU:C	27:B2:20:GLU:OE1	2.59	0.41
11:AK:120:ARG:HA	11:AK:121:PRO:HD3	1.82	0.41
35:BA:960:A:C8	35:BA:962:G:C8	3.09	0.41
11:CK:48:ILE:N	11:CK:48:ILE:CD1	2.79	0.41
35:BA:688:U:H2'	35:BA:689:A:C8	2.56	0.41
35:DA:733:G:C6	35:DA:761:A:C8	3.08	0.41
1:CA:1305:G:H22	1:CA:1331:G:C2'	2.33	0.41
1:CA:335:C:O2'	1:CA:336:C:H5'	2.20	0.41
35:DA:688:U:H5'	35:DA:1780:A:H2	1.85	0.41
46:BN:56:ASN:HA	46:BN:125:GLY:N	2.36	0.41
14:CN:12:ARG:CB	14:CN:12:ARG:NH1	2.83	0.41
21:AU:2:GLY:C	21:AU:4:GLY:H	2.24	0.41
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.41
26:B1:8:SER:HB3	26:B1:66:HIS:CG	2.56	0.41
35:DA:603:A:O2'	35:DA:604:G:P	2.79	0.41
49:DQ:76:LYS:CB	49:DQ:91:GLU:HG3	2.49	0.41
1:AA:1248:A:C5	1:AA:1249:C:C5	3.08	0.41
41:BG:27:ASN:HB3	41:BG:30:GLU:HB2	2.03	0.41
35:BA:1235:G:C2	35:BA:1236:G:N2	2.88	0.41
35:DA:1034:G:C6	35:DA:1035:U:N3	2.88	0.41
15:AO:83:GLU:C	15:AO:85:LEU:N	2.69	0.41
15:AO:83:GLU:O	15:AO:85:LEU:N	2.52	0.41
1:CA:102:G:N3	1:CA:151:A:H2	2.19	0.41
35:DA:764:A:C5	38:DD:209:ALA:HB1	2.55	0.41
54:DV:1:MET:HB3	54:DV:2:PHE:H	1.52	0.41
35:BA:343:C:O2'	35:BA:344:G:H5'	2.20	0.41
22:CW:69:C:H2'	22:CW:70:C:C6	2.55	0.41
2:AB:7:VAL:O	2:AB:11:LEU:CG	2.69	0.41
35:BA:541:C:H42	35:BA:552:G:H1	1.67	0.41
22:AV:30:G:N2	22:AV:31:G:H1'	2.36	0.41
13:CM:119:GLY:C	13:CM:121:LYS:H	2.23	0.41
43:DJ:128:UNK:C	43:DJ:130:UNK:N	2.81	0.41
47:DO:53:LYS:O	47:DO:54:GLU:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:946:A:H3'	1:CA:947:G:C8	2.55	0.41
1:CA:946:A:C2	1:CA:947:G:C5	3.08	0.41
49:BQ:120:ILE:O	49:BQ:121:ALA:C	2.58	0.41
55:BW:12:ILE:HG13	55:BW:42:ARG:HH11	1.84	0.41
6:CF:20:ALA:O	6:CF:21:LEU:C	2.59	0.41
35:DA:1572:A:O2'	35:DA:1573:G:H5'	2.20	0.41
39:BE:152:LYS:HG3	39:BE:153:GLY:H	1.85	0.41
53:BU:37:GLU:O	53:BU:40:PHE:HB2	2.21	0.41
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.84	0.41
3:CC:127:ARG:NH1	3:CC:127:ARG:HG2	2.36	0.41
1:CA:532:A:O2'	1:CA:533:A:P	2.79	0.41
35:BA:1856:G:H1	35:BA:1886:C:N4	2.18	0.41
35:BA:2154:G:H21	35:BA:2155:G:H1'	1.85	0.41
17:CQ:8:GLY:O	17:CQ:56:VAL:HA	2.21	0.41
9:AI:50:LEU:C	9:AI:52:ALA:N	2.74	0.41
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.55	0.41
20:AT:38:LYS:O	20:AT:40:ALA:N	2.52	0.41
37:BC:19:LYS:HG2	37:BC:20:VAL:N	2.36	0.41
13:AM:40:ASN:HD21	13:AM:42:ALA:HB3	1.86	0.41
35:BA:1415:U:H3	35:BA:1587:A:H61	1.67	0.41
44:DK:33:ASN:C	44:DK:35:MET:H	2.23	0.41
35:DA:654(E):G:H2'	35:DA:654(F):C:H5'	2.03	0.41
57:BY:20:TYR:CD1	57:BY:20:TYR:N	2.88	0.41
1:CA:1145:C:H6	1:CA:1145:C:H5''	1.86	0.41
10:CJ:28:ARG:NH1	10:CJ:28:ARG:HG2	2.36	0.41
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG3	2.02	0.41
35:DA:1118:C:H2'	35:DA:1119:C:C6	2.56	0.41
48:DP:6:LEU:HG	48:DP:7:ARG:H	1.84	0.41
41:BG:42:GLY:C	41:BG:43:LEU:HD22	2.41	0.41
41:BG:55:LYS:C	41:BG:57:ALA:H	2.22	0.41
41:BG:73:ALA:H	41:BG:87:PRO:CD	2.32	0.41
1:CA:542:G:H5'	4:CD:41:GLY:HA3	2.01	0.41
24:CY:629:GLY:HA3	24:CY:647:VAL:HG12	2.03	0.41
1:AA:409:G:H5'	4:AD:24:GLU:OE1	2.20	0.41
40:BF:201:VAL:HA	40:BF:204:ASN:HD22	1.86	0.41
40:BF:107:LYS:HD2	40:BF:205:ARG:O	2.21	0.41
24:AY:170:ARG:O	24:AY:171:GLU:CG	2.59	0.41
35:DA:902:C:H2'	35:DA:903:C:H6	1.86	0.41
40:BF:39:TRP:CH2	40:BF:106:ARG:NE	2.81	0.41
48:BP:7:ARG:CB	48:BP:8:PRO:CD	2.94	0.41
46:DN:3:THR:CG2	46:DN:4:TYR:N	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:92:ARG:CZ	54:DV:11:GLN:H	2.33	0.41
53:BU:88:ILE:O	53:BU:90:VAL:N	2.50	0.41
35:DA:611:C:H2'	35:DA:612:C:C6	2.55	0.41
35:BA:2393:A:O2'	35:BA:2394:C:H5'	2.20	0.41
40:DF:168:ARG:HG2	40:DF:175:THR:HG21	2.02	0.41
57:DY:28:LYS:HB2	57:DY:28:LYS:HE3	1.91	0.41
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.20	0.41
5:CE:131:ILE:O	5:CE:134:ALA:HB3	2.21	0.41
41:DG:141:PHE:O	41:DG:144:ILE:HG22	2.20	0.41
41:DG:73:ALA:H	41:DG:87:PRO:HG2	1.86	0.41
10:CJ:81:THR:OG1	10:CJ:82:ILE:N	2.54	0.41
58:BZ:119:GLU:HG3	58:BZ:119:GLU:O	2.20	0.41
30:B5:2:ALA:O	30:B5:3:LYS:CB	2.67	0.41
35:DA:2015:A:H2'	35:DA:2016:U:O4'	2.21	0.41
35:DA:2615:U:H2'	35:DA:2616:C:H6	1.85	0.41
35:BA:832:G:OP1	48:BP:40:SER:HB3	2.21	0.41
35:BA:806:C:P	48:BP:39:LYS:HD3	2.60	0.41
40:DF:17:ARG:HG3	40:DF:17:ARG:NH1	2.35	0.41
35:BA:2287:A:H2	35:BA:2346:A:C2	2.37	0.41
5:CE:76:ILE:HG22	5:CE:118:ILE:HD13	2.03	0.41
5:CE:149:GLU:O	5:CE:153:LYS:HE2	2.21	0.41
5:CE:73:ASN:HD22	5:CE:73:ASN:N	2.16	0.41
35:DA:2468:G:N2	35:DA:2481:G:O2'	2.54	0.41
27:D2:63:VAL:HG12	27:D2:64:LEU:N	2.36	0.41
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.69	0.41
26:B1:84:GLY:O	26:B1:86:SER:OG	2.32	0.41
46:BN:120:LEU:HD11	46:BN:122:VAL:CG2	2.50	0.41
35:BA:2507:C:C2	35:BA:2583:G:C2	3.09	0.41
35:DA:2575:C:OP1	39:DE:144:ARG:HG3	2.21	0.41
48:BP:114:ILE:HD12	48:BP:114:ILE:C	2.40	0.41
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.20	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:CD1	2.51	0.41
1:AA:251:G:H4'	1:AA:252:U:O5'	2.19	0.41
1:AA:1103:C:C5'	2:AB:98:LEU:HD13	2.51	0.41
35:BA:2820:A:O4'	50:BR:5:LYS:HG3	2.20	0.41
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.56	0.41
1:CA:1442(A):G:N2	52:DT:119:LYS:HA	2.36	0.41
52:BT:91:ARG:HG2	52:BT:116:ALA:HA	2.02	0.41
27:B2:38:GLN:NE2	27:B2:44:LEU:CB	2.84	0.41
35:DA:2838:G:C1'	50:DR:45:ARG:HH11	2.33	0.41
3:AC:43:LEU:C	3:AC:45:LYS:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2689:U:H4'	35:DA:2690:C:OP2	2.21	0.41
20:CT:18:GLN:O	20:CT:19:SER:C	2.59	0.41
9:CI:114:TYR:N	9:CI:114:TYR:CD2	2.89	0.41
2:AB:220:ASP:O	2:AB:222:ILE:N	2.54	0.41
35:BA:1658:C:C2	35:BA:1659:U:C5	3.08	0.41
22:AW:28:U:O2'	22:AW:29:C:H5'	2.21	0.41
2:CB:28:PHE:CE1	2:CB:31:TYR:HB2	2.55	0.41
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.41	0.41
26:B1:12:PRO:HG3	35:BA:1365:A:H5''	2.02	0.41
46:BN:67:LEU:HD22	46:BN:87:LEU:HB3	2.03	0.41
1:CA:815:A:N6	1:CA:1509:C:H1'	2.36	0.41
36:BB:63:G:C2	36:BB:64:C:C2	3.09	0.41
24:CY:510:VAL:HG13	24:CY:567:LEU:HD13	2.02	0.41
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	2.01	0.41
24:CY:413:ILE:CG2	24:CY:413:ILE:O	2.68	0.41
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.68	0.41
58:BZ:143:GLY:O	58:BZ:144:LEU:HD13	2.20	0.41
35:BA:598:G:C5'	48:BP:15:ARG:HB2	2.40	0.41
47:DO:104:ARG:HE	52:DT:33:LYS:CE	2.25	0.41
37:BC:111:PHE:CE1	37:BC:137:LEU:HD13	2.39	0.41
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.21	0.41
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.38	0.41
51:DS:49:VAL:CG1	51:DS:50:SER:H	2.26	0.41
35:DA:893:C:H2'	35:DA:894:C:C6	2.55	0.41
35:BA:1187:G:H5''	54:BV:81:TYR:CE2	2.55	0.41
24:CY:298:VAL:HG22	24:CY:299:VAL:H	1.85	0.41
35:DA:2197:U:H1'	35:DA:2198:A:C8	2.55	0.41
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.20	0.41
58:DZ:100:VAL:CG2	58:DZ:126:VAL:HG21	2.51	0.41
49:DQ:36:ALA:HA	49:DQ:129:THR:HG22	2.03	0.41
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.56	0.41
32:B7:26:GLY:O	32:B7:30:VAL:HG23	2.21	0.41
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.21	0.41
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	2.03	0.41
45:BL:67:UNK:C	45:BL:69:UNK:N	2.83	0.41
28:B3:15:TYR:HD1	28:B3:15:TYR:H	1.68	0.41
28:B3:22:ALA:HA	28:B3:46:ASN:ND2	2.34	0.41
24:AY:519:ARG:NH2	24:AY:678:GLU:H	2.19	0.41
22:AV:5:G:O2'	22:AV:6:G:H5'	2.20	0.41
22:AV:68:C:O5'	22:AV:68:C:H6	2.02	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2720:U:C2	35:DA:2721:A:C8	3.09	0.41
1:CA:334:C:H2'	1:CA:335:C:C6	2.56	0.41
35:BA:1114:G:H2'	35:BA:1115:G:C5'	2.50	0.41
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	2.02	0.41
26:D1:49:VAL:O	26:D1:59:THR:HA	2.21	0.41
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.85	0.41
29:B4:39:CYS:SG	29:B4:42:PHE:CE2	3.08	0.41
30:D5:29:THR:O	30:D5:42:PRO:HD2	2.21	0.41
35:DA:118:A:H5'	35:DA:119:A:H8	1.85	0.41
35:BA:1825:A:OP1	38:BD:249:PRO:HD3	2.20	0.41
35:BA:332:A:H4'	35:BA:333:G:OP1	2.20	0.41
2:AB:156:LYS:O	2:AB:157:ARG:CB	2.66	0.41
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.20	0.41
35:DA:18:C:O2'	53:DU:23:GLY:HA2	2.20	0.41
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.51	0.41
42:DH:106:THR:HG22	42:DH:112:PRO:HB3	2.01	0.41
53:BU:75:ASN:ND2	53:BU:77:SER:OG	2.53	0.41
55:BW:11:ARG:O	55:BW:11:ARG:HD3	2.20	0.41
1:CA:67:C:H2'	1:CA:68:G:H8	1.84	0.41
1:AA:822:C:O2'	1:AA:823:G:H5'	2.20	0.41
1:AA:425:G:O2'	1:AA:426:G:H5'	2.21	0.41
1:AA:1458:G:OP1	20:AT:35:THR:HG21	2.21	0.41
1:CA:602:A:H2'	1:CA:603:U:C6	2.56	0.41
1:CA:824:C:H2'	1:CA:825:G:C8	2.54	0.41
1:CA:154:C:H2'	1:CA:155:C:C6	2.56	0.41
7:AG:134:ALA:O	7:AG:135:VAL:C	2.57	0.41
39:DE:161:GLY:O	39:DE:162:ALA:C	2.59	0.41
38:DD:205:VAL:HG12	38:DD:205:VAL:O	2.21	0.41
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.84	0.41
36:DB:29:A:C2	36:DB:56:G:C2	3.09	0.41
24:CY:358:MET:HE3	24:CY:363:ARG:HG2	2.01	0.41
35:DA:1786:A:H2	35:DA:2606:C:H1'	1.86	0.41
24:CY:478:LYS:HA	24:CY:479:PRO:HD3	1.75	0.41
1:AA:224:C:H2'	1:AA:225:C:H6	1.85	0.41
37:DC:19:LYS:HG2	37:DC:20:VAL:N	2.36	0.41
35:DA:1645:G:OP1	35:DA:1646:C:H5'	2.21	0.41
49:DQ:34:LEU:HB2	49:DQ:118:LEU:HD22	2.03	0.41
35:BA:1142:U:H6	35:BA:1142:U:O5'	2.03	0.41
35:DA:1960:A:H8	35:DA:1960:A:H5''	1.85	0.41
1:CA:610:G:H2'	1:CA:610:G:N3	2.35	0.41
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:972:G:OP2	35:BA:974:G:H5''	2.20	0.41
35:DA:1765:C:H2'	35:DA:1766:U:H6	1.86	0.41
29:B4:26:SER:OG	29:B4:27:THR:N	2.51	0.41
41:BG:97:ASP:O	41:BG:101:ILE:CG1	2.68	0.41
41:BG:31:VAL:O	41:BG:33:ARG:HD3	2.21	0.41
39:BE:120:TRP:CE3	39:BE:155:LYS:HE3	2.56	0.41
24:AY:162:VAL:HG21	24:AY:255:ILE:CD1	2.51	0.41
40:BF:187:VAL:CG1	48:BP:7:ARG:HH22	2.34	0.41
35:DA:185:U:H2'	35:DA:186:G:C8	2.56	0.41
35:DA:212:G:O2'	35:DA:213:A:H5'	2.20	0.41
35:BA:996:A:O3'	53:BU:92:ARG:CG	2.69	0.41
46:BN:2:LYS:HE2	53:BU:95:LEU:HD21	2.03	0.41
53:BU:50:ARG:O	53:BU:52:ARG:N	2.53	0.41
53:BU:76:TYR:O	53:BU:79:PHE:HB3	2.20	0.41
54:BV:38:LEU:C	54:BV:39:LEU:HD22	2.41	0.41
24:AY:489:LYS:HG3	24:AY:597:GLY:HA2	2.03	0.41
35:BA:2283:C:H2'	35:BA:2284:C:O4'	2.21	0.41
48:BP:33:ARG:O	48:BP:34:GLY:O	2.38	0.41
48:BP:47:ASP:HB3	48:BP:48:PRO:C	2.41	0.41
35:DA:295:G:OP1	57:DY:2:ARG:NH2	2.54	0.41
57:DY:28:LYS:HD2	57:DY:37:VAL:HG11	2.03	0.41
40:DF:179:GLU:O	40:DF:181:LEU:N	2.54	0.41
31:D6:53:LYS:CG	31:D6:54:ILE:H	2.33	0.41
31:D6:5:VAL:HG22	35:DA:2283:C:OP1	2.21	0.41
29:D4:9:LEU:HD12	29:D4:10:VAL:H	1.86	0.41
41:DG:53:LEU:HD12	41:DG:56:ALA:CB	2.50	0.41
58:BZ:122:ARG:O	58:BZ:123:ASP:OD1	2.38	0.41
35:DA:1058:G:N2	44:DK:126:MET:HE3	2.35	0.41
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.20	0.41
35:BA:271(P):C:H2'	35:BA:271(Q):G:O4'	2.19	0.41
35:BA:2584:U:O5'	35:BA:2584:U:O2	2.39	0.41
48:DP:100:LEU:CD2	48:DP:100:LEU:N	2.84	0.41
48:DP:114:ILE:C	48:DP:114:ILE:HD12	2.40	0.41
48:DP:114:ILE:HG13	48:DP:130:PHE:HD1	1.85	0.41
48:BP:114:ILE:HG13	48:BP:130:PHE:HD1	1.85	0.41
35:BA:967:C:O2'	35:BA:968:G:H5'	2.20	0.41
24:CY:631:ILE:HG21	35:DA:1067:A:N9	2.35	0.41
1:CA:1053:G:N7	1:CA:1200:C:C5'	2.76	0.41
1:CA:1055:A:O5'	1:CA:1055:A:H8	2.02	0.41
51:DS:70:GLY:C	51:DS:101:LEU:CD2	2.88	0.41
35:DA:2376:A:N6	51:DS:92:TYR:HE2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2318:G:C2'	35:DA:2319:G:OP2	2.69	0.41
50:BR:28:LEU:HD23	50:BR:29:LEU:HD12	2.02	0.41
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.88	0.41
27:D2:5:GLU:O	27:D2:9:GLN:HG3	2.20	0.41
5:CE:7:GLU:HG2	5:CE:112:LEU:HD21	2.02	0.41
25:D0:60:PHE:CD1	25:D0:60:PHE:C	2.94	0.41
37:DC:84:ILE:HG23	37:DC:95:VAL:HG12	2.03	0.41
5:AE:34:VAL:O	5:AE:34:VAL:HG13	2.21	0.41
58:DZ:128:VAL:CG2	58:DZ:132:ASN:HB2	2.44	0.41
44:DK:3:LYS:HE3	44:DK:29:GLN:HB3	2.02	0.41
24:CY:490:PRO:HG3	24:CY:516:PRO:HD2	2.02	0.41
50:DR:13:HIS:HA	50:DR:17:ARG:NH2	2.35	0.41
22:CV:56:C:O2	41:DG:83:ARG:HG2	2.21	0.41
58:BZ:150:LEU:H	58:BZ:150:LEU:HD23	1.82	0.41
25:B0:12:ASN:C	25:B0:14:ARG:H	2.22	0.41
9:AI:84:ALA:C	9:AI:86:VAL:N	2.74	0.41
47:DO:104:ARG:NH2	52:DT:33:LYS:CE	2.80	0.41
1:CA:894:G:H2'	1:CA:895:G:O4'	2.21	0.41
35:BA:2068:U:C4	35:BA:2430:A:H2	2.38	0.41
39:BE:81:ILE:O	39:BE:82:ARG:C	2.59	0.41
39:DE:1:MET:O	39:DE:2:LYS:C	2.58	0.41
39:DE:46:ALA:HA	39:DE:82:ARG:O	2.21	0.41
39:DE:82:ARG:O	39:DE:83:ASP:C	2.57	0.41
35:DA:973:A:O4'	35:DA:1188:U:C6	2.74	0.41
21:CU:24:ARG:HG2	21:CU:24:ARG:HH11	1.85	0.41
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.85	0.41
13:CM:99:ARG:O	13:CM:100:GLY:C	2.58	0.41
35:BA:883:G:N2	35:BA:894:C:C2	2.89	0.41
35:DA:803:U:HO2'	35:DA:804:A:H5'	1.84	0.41
42:DH:105:LEU:CD2	42:DH:105:LEU:N	2.84	0.41
26:D1:67:ILE:HB	26:D1:68:PRO:CD	2.51	0.41
35:BA:418:G:H2'	35:BA:419:C:H6	1.85	0.41
24:AY:514:VAL:HG21	24:AY:593:ALA:HB3	1.98	0.41
1:AA:676:A:H1'	11:AK:115:PRO:HB3	2.03	0.41
28:D3:22:ALA:CA	28:D3:46:ASN:HD22	2.34	0.41
49:BQ:110:THR:HG23	49:BQ:113:GLN:HG3	2.02	0.41
10:CJ:18:ALA:C	10:CJ:20:ALA:N	2.72	0.41
10:AJ:22:LYS:C	10:AJ:24:VAL:H	2.23	0.41
27:B2:8:LYS:O	27:B2:9:GLN:C	2.58	0.41
24:CY:315:LYS:C	24:CY:316:ILE:HD13	2.41	0.41
1:AA:1347:G:H2'	1:AA:1373:G:H1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	2.01	0.41
36:DB:21:G:O2'	36:DB:22:U:P	2.78	0.41
35:DA:2412:A:N6	35:DA:2413:G:C2	2.89	0.41
12:AL:117:ARG:HH22	12:AL:124:LYS:HB2	1.84	0.41
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.20	0.41
38:BD:14:ARG:HG3	38:BD:15:PHE:H	1.85	0.41
26:B1:27:GLU:O	26:B1:28:GLY:C	2.58	0.41
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.84	0.41
1:CA:1378:C:C5	1:CA:1379:G:C8	3.09	0.41
30:D5:42:PRO:O	30:D5:43:HIS:HB2	2.21	0.41
38:BD:7:LYS:HB3	38:BD:8:PRO:HD2	2.03	0.41
35:BA:2009:G:O2'	35:BA:2010:G:H5'	2.20	0.41
35:DA:1064:C:N4	35:DA:1074:G:H1	2.19	0.41
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.55	0.41
35:BA:329:G:H22	57:BY:19:LYS:HE3	1.86	0.41
1:AA:956:U:C5	1:AA:957:U:C5	3.08	0.41
1:AA:143:A:N1	1:AA:220:G:O6	2.54	0.41
4:AD:140:VAL:HG12	4:AD:141:ARG:O	2.20	0.41
35:BA:626:U:N3	48:BP:105:LEU:HG	2.35	0.41
46:DN:97:ARG:HB3	46:DN:101:HIS:HD2	1.86	0.41
17:AQ:51:TYR:CE1	17:AQ:73:VAL:HG11	2.56	0.41
55:BW:80:PRO:O	55:BW:100:THR:CG2	2.69	0.41
38:BD:3:VAL:HG12	38:BD:17:THR:HB	2.03	0.41
22:CW:3:C:H2'	22:CW:4:G:H5''	2.01	0.41
54:DV:72:VAL:HG23	54:DV:72:VAL:O	2.21	0.41
7:AG:99:LEU:HD22	7:AG:103:TRP:CZ2	2.56	0.41
7:AG:103:TRP:O	7:AG:104:LEU:C	2.58	0.41
1:AA:652:U:C2	1:AA:752:G:N2	2.89	0.41
35:BA:2706:G:N3	35:BA:2706:G:H2'	2.35	0.41
35:DA:1131:G:OP1	46:DN:80:GLY:N	2.49	0.41
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.21	0.41
38:DD:125:ILE:O	38:DD:126:GLN:HB3	2.20	0.41
1:AA:341:C:O2	1:AA:349:A:C2	2.73	0.41
38:BD:205:VAL:HG12	38:BD:205:VAL:O	2.20	0.41
1:CA:398:C:O2'	1:CA:399:G:H5'	2.21	0.41
1:CA:32:A:H3'	1:CA:33:A:H8	1.85	0.41
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	2.01	0.41
24:CY:443:HIS:HB3	24:CY:446:THR:HG23	2.02	0.41
58:DZ:74:VAL:HG22	58:DZ:86:VAL:HG13	2.01	0.41
17:CQ:88:TYR:O	17:CQ:91:ARG:N	2.54	0.41
35:BA:1651:G:C2	35:BA:2007:C:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:282:A:H3'	1:AA:283:C:C6	2.56	0.41
52:BT:20:PRO:O	52:BT:22:PHE:HD2	2.03	0.41
36:BB:36:C:H2'	36:BB:37:C:C6	2.56	0.41
35:DA:2563:U:H2'	35:DA:2565:A:OP2	2.21	0.41
35:BA:398:G:H2'	35:BA:399:G:C8	2.56	0.41
35:BA:592:G:N2	35:BA:593:G:H1'	2.36	0.41
15:CO:57:LEU:N	15:CO:57:LEU:HD23	2.36	0.41
35:DA:1214:A:H2'	35:DA:1215:G:O4'	2.21	0.41
42:DH:169:VAL:HG13	42:DH:170:ARG:H	1.82	0.41
40:DF:103:LYS:HA	40:DF:106:ARG:CG	2.51	0.41
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.99	0.41
29:B4:6:HIS:C	29:B4:8:LYS:N	2.74	0.41
41:BG:111:LEU:HD21	41:BG:120:LEU:HD21	2.02	0.41
29:B4:10:VAL:CG1	29:B4:27:THR:HA	2.51	0.41
41:BG:102:PHE:O	41:BG:105:LYS:N	2.53	0.41
41:BG:56:ALA:CA	41:BG:59:GLU:OE1	2.66	0.41
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HD12	2.41	0.41
10:AJ:4:ILE:H	10:AJ:4:ILE:HD12	1.81	0.41
37:BC:118:PRO:C	37:BC:121:MET:HG2	2.42	0.41
4:CD:18:LYS:HE2	4:CD:20:TYR:CE2	2.56	0.41
24:CY:606:MET:SD	24:CY:673:PHE:HA	2.60	0.41
24:CY:138:LYS:HG2	62:CY:703:GDP:C6	2.54	0.41
23:AX:13:A:C3'	23:AX:14:A:C5'	2.78	0.41
40:BF:110:LEU:CD1	40:BF:202:PHE:HE1	2.34	0.41
40:BF:181:LEU:O	40:BF:205:ARG:NH1	2.54	0.41
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.21	0.41
24:AY:111:SER:O	24:AY:112:GLN:C	2.58	0.41
24:AY:25:LYS:N	62:AY:703:GDP:O2B	2.54	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:C4	2.56	0.41
24:AY:117:GLN:O	24:AY:118:SER:C	2.58	0.41
24:AY:120:THR:O	24:AY:124:GLN:CD	2.59	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:N9	2.36	0.41
53:DU:50:ARG:O	53:DU:52:ARG:N	2.53	0.41
16:AP:32:TYR:CD2	16:AP:32:TYR:O	2.61	0.41
41:BG:77:ILE:O	41:BG:78:SER:C	2.59	0.41
53:BU:46:ALA:O	53:BU:47:TYR:C	2.59	0.41
53:BU:50:ARG:HH11	54:BV:70:ILE:CG2	2.34	0.41
48:BP:31:ALA:C	48:BP:33:ARG:N	2.73	0.41
58:DZ:28:MET:O	58:DZ:34:ASN:HB2	2.21	0.41
35:DA:82:G:N1	35:DA:103:A:OP2	2.53	0.41
40:DF:168:ARG:O	40:DF:170:LEU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:77:PRO:HB2	57:DY:99:CYS:SG	2.61	0.41
57:DY:87:LYS:O	57:DY:88:LYS:HB2	2.20	0.41
58:BZ:97:GLU:HB3	58:BZ:125:LEU:HD11	2.03	0.41
51:BS:15:ARG:CB	51:BS:18:ILE:HD11	2.36	0.41
27:B2:67:LYS:O	27:B2:69:ARG:N	2.53	0.41
48:DP:56:SER:O	48:DP:58:THR:N	2.54	0.41
29:D4:10:VAL:CG1	29:D4:27:THR:HA	2.51	0.41
29:D4:27:THR:O	29:D4:28:LYS:CB	2.69	0.41
1:AA:794:A:O2'	1:AA:795:C:H5'	2.21	0.41
41:DG:114:ILE:O	41:DG:115:ARG:HB2	2.20	0.41
10:CJ:31:GLY:O	10:CJ:32:ALA:C	2.58	0.41
30:D5:44:THR:O	30:D5:51:TYR:CE1	2.70	0.41
1:CA:1037:C:H2'	1:CA:1038:C:N3	2.34	0.41
35:DA:1453:U:H2'	35:DA:1455:G:C8	2.56	0.41
3:CC:83:ARG:O	3:CC:86:VAL:N	2.54	0.41
30:B5:2:ALA:N	35:BA:2015:A:C1'	2.84	0.41
30:D5:3:LYS:NZ	35:DA:2613:U:O2'	2.49	0.41
37:DC:134:PRO:HB2	37:DC:135:ARG:HD2	2.03	0.41
24:CY:151:ARG:O	24:CY:155:GLU:HB2	2.21	0.41
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.47	0.41
35:DA:820:A:N3	35:DA:943:U:O2'	2.47	0.41
41:BG:133:LEU:C	41:BG:133:LEU:CD1	2.89	0.41
31:B6:20:ASN:ND2	31:B6:44:ARG:HH22	2.18	0.41
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.89	0.41
51:BS:87:PHE:HB2	51:BS:106:ARG:HH21	1.85	0.41
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.21	0.41
3:CC:59:ARG:HG3	3:CC:64:VAL:HA	2.01	0.41
44:DK:121:GLU:O	44:DK:125:ARG:NE	2.53	0.41
46:DN:120:LEU:HD13	46:DN:121:LYS:N	2.36	0.41
49:DQ:55:VAL:CG1	49:DQ:56:ARG:H	2.29	0.41
40:BF:10:PRO:HG2	40:BF:11:VAL:N	2.36	0.41
38:BD:67:PHE:HD2	38:BD:67:PHE:HA	1.73	0.41
1:CA:1452:C:O4'	1:CA:1452:C:OP1	2.39	0.41
26:B1:84:GLY:O	26:B1:85:LEU:C	2.59	0.41
35:BA:1882:C:H2'	35:BA:1883:G:O4'	2.20	0.41
48:DP:83:VAL:H	48:DP:115:LEU:HD23	1.83	0.41
48:DP:106:LEU:HD12	48:DP:106:LEU:N	2.36	0.41
35:BA:1803:A:C8	35:BA:1804:C:C5	3.09	0.41
35:DA:813:U:C2	35:DA:814:C:C5	3.09	0.41
39:BE:117:MET:HA	39:BE:122:PHE:N	2.18	0.41
35:DA:1820:U:H3	38:DD:199:ALA:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BK:55:VAL:HG13	44:BK:57:ILE:HD11	2.03	0.41
44:BK:6:ALA:CB	44:BK:30:HIS:CE1	3.04	0.41
26:D1:26:ARG:HG3	26:D1:27:GLU:CG	2.43	0.41
39:DE:59:VAL:CG2	39:DE:62:PRO:O	2.69	0.41
35:DA:2786:U:O2'	39:DE:62:PRO:HA	2.20	0.41
1:AA:1014:A:H4'	19:AS:14:HIS:CG	2.55	0.41
35:DA:1495:A:H2'	35:DA:1496:A:N3	2.36	0.41
35:BA:2572:A:C5'	35:BA:2574:G:H4'	2.35	0.41
35:DA:361:G:N2	35:DA:362:U:H1'	2.35	0.41
1:AA:1053:G:C4	1:AA:1199:U:C5	3.08	0.41
35:DA:130:C:O3'	35:DA:1349:A:H1'	2.21	0.41
35:BA:1141:U:OP1	46:BN:25:ARG:NH1	2.54	0.41
46:BN:22:THR:HB	46:BN:25:ARG:CB	2.47	0.41
35:BA:2318:G:C2'	35:BA:2319:G:OP2	2.69	0.41
35:BA:2712:U:O4'	35:BA:2712:U:O2	2.39	0.41
51:DS:101:LEU:O	51:DS:102:ALA:O	2.39	0.41
51:DS:74:ALA:CB	51:DS:103:GLU:HB2	2.46	0.41
35:DA:1144:G:C6	35:DA:1145:C:C4	3.08	0.41
41:DG:34:LEU:HD13	41:DG:99:MET:CE	2.51	0.41
1:AA:1442(B):A:N3	1:AA:1442(B):A:H2'	2.36	0.41
1:CA:323:U:H2'	1:CA:324:G:O4'	2.21	0.41
35:DA:2820:A:O4'	50:DR:5:LYS:HG3	2.20	0.41
35:BA:192:C:O2'	35:BA:802:A:N3	2.49	0.41
13:AM:81:LEU:H	13:AM:81:LEU:HD22	1.83	0.41
55:DW:10:VAL:HG21	55:DW:103:ILE:HG13	2.03	0.41
52:BT:30:VAL:HG22	52:BT:84:GLN:O	2.21	0.41
2:AB:222:ILE:HB	2:AB:226:ARG:NH2	2.31	0.41
35:BA:2838:G:C1'	50:BR:45:ARG:HH11	2.34	0.41
19:CS:20:LEU:HA	19:CS:20:LEU:HD23	1.83	0.41
29:D4:48:ARG:O	29:D4:49:PHE:HD1	2.01	0.41
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.55	0.41
1:CA:953:G:H5'	1:CA:965:A:N6	2.28	0.41
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	2.03	0.41
1:CA:252:U:C4	1:CA:253:U:O4	2.74	0.41
1:AA:1250:A:C2	1:AA:1251:A:C4	3.09	0.41
1:CA:1392:G:N2	1:CA:1502:A:H8	2.19	0.41
35:DA:614(B):G:H5''	35:DA:614(C):A:OP1	2.21	0.41
50:DR:38:VAL:HB	50:DR:39:PRO:CD	2.39	0.41
39:BE:183:LEU:HD12	39:BE:183:LEU:N	2.34	0.41
41:DG:77:ILE:C	41:DG:80:PHE:H	2.23	0.41
15:AO:74:ASP:OD1	15:AO:76:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:6:ILE:HA	55:BW:103:ILE:O	2.20	0.41
46:DN:94:HIS:HA	46:DN:96:GLU:OE1	2.21	0.41
38:DD:266:SER:C	38:DD:267:SER:O	2.59	0.41
25:D0:40:GLN:HE21	25:D0:43:THR:HA	1.77	0.41
24:AY:485:GLU:CB	24:AY:560:VAL:HG22	2.48	0.41
47:DO:69:ILE:HD13	47:DO:77:ILE:CG2	2.42	0.41
1:AA:1284:C:O5'	1:AA:1284:C:H6	2.03	0.41
24:CY:126:GLU:O	24:CY:129:LYS:N	2.54	0.41
1:AA:814:A:H5'	1:AA:1511:G:H4'	2.02	0.41
1:AA:1277:C:H2'	1:AA:1278:U:C5'	2.42	0.41
35:DA:1528(A):A:C8	35:DA:1529:G:C8	3.09	0.41
35:DA:1539:G:N1	35:DA:1540:U:O2	2.54	0.41
50:BR:3:HIS:O	50:BR:4:LEU:CB	2.68	0.41
9:CI:79:LEU:O	9:CI:82:ALA:N	2.54	0.41
9:CI:50:LEU:HD23	9:CI:85:LEU:CD2	2.50	0.41
9:CI:84:ALA:C	9:CI:86:VAL:N	2.73	0.41
1:AA:439:A:H2'	1:AA:441:A:C5'	2.51	0.41
24:CY:229:LEU:HA	24:CY:232:LEU:HD23	2.02	0.41
35:BA:2464:C:O2'	35:BA:2465:C:P	2.78	0.41
40:DF:133:ASN:N	40:DF:162:LEU:HD23	2.35	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:N	2.79	0.41
35:BA:861:A:C2	35:BA:917:A:C4	3.09	0.41
39:BE:46:ALA:HA	39:BE:82:ARG:O	2.21	0.41
53:BU:21:ALA:HA	53:BU:24:TYR:CE1	2.56	0.41
11:AK:33:THR:HB	11:AK:38:ASN:C	2.41	0.41
35:BA:1497:U:C2	35:BA:1578:U:OP1	2.74	0.41
36:BB:9:G:C6	36:BB:113:G:C6	3.09	0.41
1:CA:176:C:C2	1:CA:177:C:C5	3.08	0.41
1:CA:103:C:H2'	1:CA:103:C:O2	2.21	0.41
38:BD:124:PRO:O	38:BD:129:ASN:ND2	2.53	0.41
35:DA:677:A:O2'	35:DA:678:C:H5'	2.21	0.41
15:CO:43:LEU:C	15:CO:45:VAL:N	2.74	0.41
35:BA:1164:G:H1	35:BA:1185:C:N4	2.19	0.41
35:DA:2020:A:C6	35:DA:2022:U:C2	3.08	0.41
14:AN:27:CYS:SG	14:AN:40:CYS:SG	3.18	0.41
24:CY:15:ILE:HD13	24:CY:105:ILE:CD1	2.50	0.41
24:CY:20:HIS:O	24:CY:23:ALA:HB2	2.20	0.41
1:CA:1074:G:O2'	1:CA:1075:C:H5'	2.20	0.41
24:AY:447:GLY:O	24:AY:448:GLN:C	2.58	0.41
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.36	0.41
35:BA:1996:C:OP1	47:BO:31:LYS:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:14:ILE:CG1	3:CC:15:THR:N	2.84	0.41
55:BW:36:LEU:CD1	55:BW:47:VAL:HG12	2.49	0.41
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.47	0.41
35:BA:64:A:O2'	35:BA:65:C:H5'	2.20	0.41
24:AY:530:VAL:CG2	24:AY:531:GLY:N	2.79	0.41
55:BW:70:TYR:O	55:BW:107:LEU:HB3	2.21	0.41
12:AL:47:LYS:CD	12:AL:48:PRO:HD3	2.49	0.41
1:AA:1133:G:N3	1:AA:1142:G:N2	2.69	0.41
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CG	2.56	0.41
1:CA:470:C:H2'	1:CA:471:G:OP1	2.21	0.41
35:BA:954:G:O2'	35:BA:955:C:H5'	2.21	0.41
1:AA:470:C:H2'	1:AA:471:G:OP1	2.21	0.41
1:CA:1134:G:H2'	1:CA:1135:U:H5'	2.03	0.41
15:AO:55:GLY:O	15:AO:56:LEU:C	2.59	0.41
1:AA:1090:U:H4'	1:AA:1170:A:C2	2.56	0.41
55:BW:37:ARG:HG3	55:BW:38:TYR:CD2	2.55	0.41
24:CY:352:VAL:HG23	24:CY:377:VAL:HB	2.01	0.41
54:BV:64:HIS:HA	54:BV:92:THR:HA	2.01	0.41
42:DH:128:PRO:HG2	42:DH:129:THR:HG23	2.03	0.41
37:BC:138:LEU:HD22	37:BC:139:PRO:CD	2.49	0.41
14:CN:29:ARG:HH11	14:CN:29:ARG:CG	2.31	0.41
37:DC:117:THR:O	37:DC:120:VAL:HG22	2.21	0.41
35:DA:2617:C:H2'	35:DA:2618:G:H5'	2.02	0.41
35:DA:2618:G:H2'	35:DA:2619:C:C6	2.55	0.41
54:DV:64:HIS:HA	54:DV:92:THR:HA	2.03	0.41
20:AT:75:ASN:O	20:AT:76:ALA:C	2.59	0.41
35:BA:464:U:H2'	35:BA:465:G:O4'	2.21	0.41
35:BA:688:U:H2'	35:BA:689:A:H8	1.86	0.41
35:BA:464:U:C4	35:BA:788:A:N7	2.89	0.41
3:AC:136:GLN:HG3	3:AC:139:GLN:CB	2.47	0.41
28:B3:35:ARG:CD	28:B3:37:LEU:HD21	2.51	0.41
1:CA:318:G:C2	1:CA:336:C:N3	2.89	0.41
1:CA:261:U:N3	1:CA:264:U:OP2	2.42	0.41
35:BA:20:C:H2'	35:BA:21:A:C8	2.54	0.41
42:DH:76:VAL:C	42:DH:78:GLY:N	2.74	0.41
2:CB:194:PRO:O	2:CB:195:ASP:C	2.60	0.41
1:CA:748:C:O2'	1:CA:749:C:H6	2.04	0.41
39:BE:26:ILE:CG2	39:BE:196:VAL:HG21	2.47	0.41
35:DA:606:U:C2'	35:DA:606:U:O2	2.65	0.41
4:CD:133:VAL:HG12	4:CD:134:ASP:N	2.35	0.41
35:BA:657:U:H2'	35:BA:658:C:C5	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:619:U:O5'	1:CA:619:U:H6	2.04	0.41
37:DC:46:ALA:O	37:DC:48:LEU:HD12	2.21	0.41
35:DA:483:A:H3'	35:DA:484:C:C6	2.56	0.41
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	2.02	0.41
1:CA:992:U:HO2'	1:CA:993:G:P	2.44	0.41
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	2.02	0.41
20:CT:33:ILE:HD11	20:CT:62:LEU:O	2.21	0.41
20:AT:33:ILE:O	20:AT:37:SER:OG	2.34	0.41
58:BZ:47:VAL:O	58:BZ:51:ALA:HB3	2.20	0.41
1:AA:201:C:C3'	1:AA:202:U:H5''	2.51	0.41
24:AY:188:TYR:OH	24:AY:271:LEU:HD11	2.21	0.41
35:DA:78:A:H2'	35:DA:79:G:H8	1.85	0.41
35:DA:1196:C:O2'	35:DA:1197:G:H5'	2.21	0.41
35:BA:1221(A):C:C2	35:BA:1229:G:N2	2.89	0.41
35:DA:2115:G:C3'	35:DA:2116:G:H5''	2.51	0.41
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.51	0.41
35:DA:1472:A:H2'	35:DA:1473:G:H8	1.85	0.41
35:DA:1248:G:OP2	40:DF:92:PRO:HB3	2.20	0.41
35:DA:1664:A:OP1	35:DA:1665:A:OP2	2.39	0.41
47:BO:53:LYS:O	47:BO:54:GLU:O	2.38	0.41
1:AA:977:A:H3'	1:AA:977:A:N3	2.34	0.41
35:DA:437:G:H2'	35:DA:438:G:C8	2.56	0.41
13:AM:36:LYS:HG3	13:AM:59:TYR:OH	2.21	0.41
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.51	0.41
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.21	0.41
35:BA:2681:C:H5	35:BA:2725:A:N6	2.18	0.41
44:DK:61:ALA:O	44:DK:63:ARG:N	2.54	0.41
3:AC:141:VAL:O	3:AC:144:SER:N	2.53	0.41
46:BN:76:SER:O	46:BN:78:TYR:N	2.53	0.41
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	2.03	0.41
7:AG:137:LYS:HE2	7:AG:141:VAL:HG23	2.03	0.41
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.21	0.41
9:AI:33:PHE:O	9:AI:35:GLU:N	2.49	0.41
14:CN:5:ALA:O	14:CN:8:GLU:HB2	2.21	0.41
1:AA:337:C:H2'	1:AA:338:A:C8	2.56	0.41
35:DA:128:C:O2'	35:DA:129:C:P	2.79	0.41
5:CE:88:LYS:HB3	5:CE:123:LEU:O	2.20	0.41
36:DB:5:C:O2'	36:DB:6:C:H5'	2.21	0.41
35:BA:2880:C:H6	35:BA:2880:C:O5'	2.04	0.41
1:CA:802:A:H3'	1:CA:803:G:C8	2.56	0.41
2:CB:213:LEU:O	2:CB:213:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:19:LEU:HA	52:DT:20:PRO:HD3	1.81	0.41
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.51	0.41
58:BZ:78:LYS:H	58:BZ:78:LYS:HD3	1.86	0.41
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.20	0.41
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.93	0.41
56:BX:47:PHE:CD2	56:BX:89:ILE:HG21	2.55	0.41
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.21	0.41
24:AY:364:GLU:HG2	24:AY:366:VAL:HG13	2.03	0.41
14:CN:9:LYS:HE3	14:CN:9:LYS:HB2	1.91	0.41
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.85	0.41
22:CW:46:G:O2'	22:CW:47:G:H5'	2.20	0.41
22:CV:61:C:H2'	22:CV:62:C:H6	1.86	0.41
46:BN:79:PRO:C	46:BN:81:GLY:H	2.24	0.41
8:CH:36:LEU:O	8:CH:37:ARG:C	2.58	0.41
44:DK:48:MET:HB2	44:DK:49:GLY:H	1.70	0.41
7:AG:138:LYS:HE3	7:AG:142:GLU:OE1	2.21	0.41
35:DA:2128:C:OP1	37:DC:37:LYS:HG3	2.21	0.41
9:AI:77:ILE:O	9:AI:78:LYS:C	2.59	0.41
46:DN:79:PRO:C	46:DN:81:GLY:H	2.24	0.41
41:DG:49:ASP:O	41:DG:50:ALA:HB3	2.20	0.41
5:AE:59:GLY:O	5:AE:62:ALA:HB3	2.21	0.41
35:BA:2534:A:H2'	35:BA:2535:G:O5'	2.21	0.41
42:DH:61:HIS:O	42:DH:62:LYS:C	2.57	0.41
24:AY:621:ILE:HG23	24:AY:631:ILE:HG12	2.02	0.41
13:CM:88:ARG:HG2	13:CM:88:ARG:HH11	1.86	0.41
4:CD:97:LEU:HA	4:CD:97:LEU:HD23	1.85	0.41
35:DA:2751:G:N2	35:DA:2751:G:OP1	2.54	0.41
35:DA:2322:A:O2'	35:DA:2323:G:H5'	2.21	0.41
4:CD:6:GLY:O	4:CD:7:PRO:C	2.59	0.41
42:BH:97:ARG:O	42:BH:97:ARG:HG2	2.21	0.41
10:AJ:38:ILE:N	10:AJ:71:LEU:O	2.50	0.41
1:AA:432:A:N7	1:AA:433:C:C4	2.89	0.41
35:BA:1326:U:H4'	35:BA:2011:U:O4'	2.20	0.41
24:AY:83:ASP:O	24:AY:84:THR:OG1	2.32	0.41
24:AY:89:ASP:HB2	24:AY:90:PHE:H	1.36	0.41
53:DU:51:LYS:HA	53:DU:54:LYS:HE2	2.02	0.41
35:BA:2134:A:H1'	35:BA:2158:A:C2	2.56	0.41
31:B6:53:LYS:CG	31:B6:54:ILE:H	2.34	0.41
33:B8:50:LEU:C	33:B8:52:LYS:N	2.74	0.41
35:DA:83:G:H22	35:DA:102:G:H2'	1.83	0.41
1:AA:1037:C:H2'	1:AA:1038:C:N3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:12:PRO:HB2	42:BH:15:VAL:CG1	2.40	0.41
31:D6:8:LYS:NZ	35:DA:2285:C:C5	2.76	0.41
41:DG:140:ILE:H	41:DG:140:ILE:HG13	1.71	0.41
41:DG:61:ALA:O	41:DG:64:THR:HG22	2.21	0.41
57:BY:96:ILE:HG21	57:BY:99:CYS:HB3	2.02	0.41
30:D5:2:ALA:O	30:D5:3:LYS:CB	2.69	0.41
35:DA:1301:A:HO2'	35:DA:1302:A:C2'	2.31	0.41
1:CA:1321:C:C4	1:CA:1322:C:C4	3.09	0.41
27:B2:3:LEU:CD2	27:B2:7:ARG:HH12	2.14	0.41
35:BA:1251:C:OP2	53:BU:10:ARG:NE	2.50	0.41
3:AC:22:TRP:CH2	3:AC:32:LEU:HB2	2.55	0.41
53:DU:10:ARG:C	53:DU:12:ARG:N	2.74	0.41
35:DA:1882:C:H2'	35:DA:1883:G:O4'	2.21	0.41
27:D2:67:LYS:O	27:D2:69:ARG:N	2.53	0.41
35:DA:570:G:O6	35:DA:2499:C:OP1	2.39	0.41
44:BK:8:VAL:O	44:BK:56:GLU:HA	2.21	0.41
56:DX:35:THR:CG2	56:DX:36:LYS:N	2.83	0.41
42:DH:66:GLY:O	42:DH:67:LEU:C	2.58	0.41
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.51	0.41
35:DA:2889:C:H2'	35:DA:2891:G:C8	2.56	0.41
39:DE:107:THR:C	39:DE:190:GLY:HA2	2.36	0.41
41:DG:168:GLU:C	41:DG:170:ARG:N	2.74	0.41
51:DS:35:ILE:HG22	51:DS:53:SER:HB2	2.02	0.41
51:DS:24:LEU:CB	51:DS:85:VAL:HG12	2.38	0.41
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.89	0.41
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	2.01	0.41
29:D4:16:CYS:HB3	29:D4:20:ASN:O	2.21	0.41
41:DG:34:LEU:CD1	41:DG:34:LEU:N	2.76	0.41
1:AA:1442(B):A:C5	52:BT:118:ARG:NE	2.89	0.41
52:BT:90:GLN:O	52:BT:92:GLY:N	2.53	0.41
1:AA:953:G:H5'	1:AA:965:A:N6	2.30	0.41
27:D2:4:SER:C	27:D2:6:VAL:N	2.74	0.41
39:BE:9:VAL:HG22	39:BE:10:GLY:H	1.84	0.41
42:DH:45:VAL:O	42:DH:47:GLU:N	2.54	0.41
42:DH:136:ILE:O	42:DH:136:ILE:HG22	2.21	0.41
41:DG:76:SER:CB	41:DG:83:ARG:HA	2.50	0.41
4:AD:173:TRP:CB	4:AD:187:ARG:NH1	2.83	0.41
39:BE:128:SER:OG	39:BE:129:HIS:N	2.54	0.41
35:DA:234:C:H2'	35:DA:235:U:H6	1.86	0.41
35:BA:2018:G:H21	53:BU:34:LYS:HZ2	1.68	0.41
38:DD:92:ILE:H	38:DD:92:ILE:CD1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:239:U:H1'	35:BA:259:G:N2	2.36	0.41
29:D4:53:GLU:HB3	29:D4:55:ARG:CZ	2.50	0.41
56:BX:64:LYS:HE2	56:BX:64:LYS:HB3	1.85	0.41
9:AI:8:GLY:HA3	9:AI:79:LEU:HB3	2.03	0.41
9:CI:93:ARG:C	9:CI:95:LYS:N	2.74	0.41
35:BA:1529:G:C6	35:BA:1541:G:N1	2.88	0.41
19:AS:9:VAL:HG13	19:AS:39:THR:HB	2.03	0.41
1:CA:437:U:H2'	1:CA:438:G:O4'	2.21	0.41
34:D9:29:ASN:OD1	34:D9:32:HIS:NE2	2.54	0.41
15:AO:80:ALA:O	15:AO:81:LEU:C	2.59	0.41
13:AM:66:LEU:O	13:AM:67:GLU:O	2.38	0.41
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.20	0.41
38:BD:126:GLN:O	38:BD:127:VAL:C	2.59	0.41
35:DA:676:A:C1'	35:DA:2443:C:H1'	2.45	0.41
35:DA:557:U:H2'	35:DA:558:G:C8	2.55	0.41
35:DA:558:G:OP1	46:DN:111:PRO:HD2	2.20	0.41
4:AD:165:MET:HE2	4:AD:176:LEU:HD22	2.03	0.41
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.21	0.41
35:DA:910:A:C6	35:DA:911:A:C6	3.09	0.41
35:DA:1174:A:H5'	35:DA:1175:U:H5''	2.02	0.41
35:BA:1683:C:O2'	35:BA:1684:C:H5'	2.21	0.41
35:DA:481:G:N2	35:DA:507:A:H1'	2.35	0.41
24:AY:610:VAL:CG2	24:AY:643:ILE:HB	2.51	0.41
49:BQ:37:LEU:HG	49:BQ:129:THR:HA	2.03	0.41
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.74	0.41
35:BA:733:G:C6	35:BA:761:A:C8	3.09	0.41
36:BB:74:U:C2'	36:BB:75:G:H5'	2.51	0.41
12:CL:105:TYR:C	12:CL:107:ALA:H	2.25	0.41
49:DQ:68:ILE:CG2	49:DQ:103:MET:HA	2.51	0.41
24:CY:114:VAL:O	24:CY:114:VAL:CG1	2.66	0.41
58:BZ:158:PRO:O	58:BZ:160:GLY:N	2.47	0.41
35:BA:1638:C:H1'	35:BA:2698:U:O2'	2.21	0.41
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.41
37:BC:119:ASP:OD1	37:BC:120:VAL:HG13	2.21	0.41
1:CA:943:U:H2'	1:CA:944:G:C5'	2.49	0.41
24:AY:402:ILE:H	24:AY:402:ILE:CD1	2.33	0.41
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.21	0.41
35:BA:763:G:C4	35:BA:765:G:C8	3.09	0.41
35:BA:1491:G:N3	35:BA:1492:G:C8	2.89	0.41
39:BE:143:ASN:N	39:BE:143:ASN:ND2	2.69	0.41
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.54	0.41
18:AR:26:LEU:CD2	18:AR:42:ARG:NH1	2.84	0.41
35:DA:327:G:N2	35:DA:328:U:H1'	2.36	0.41
56:BX:90:GLU:O	56:BX:92:LEU:N	2.53	0.41
35:DA:1491:G:N3	35:DA:1492:G:C8	2.89	0.41
13:CM:64:TRP:N	13:CM:64:TRP:CD1	2.89	0.41
41:DG:9:ARG:O	41:DG:10:LYS:C	2.60	0.41
35:BA:1941:C:C4	35:BA:1942:C:C4	3.09	0.41
35:BA:1526:G:H2'	35:BA:1527:G:O4'	2.21	0.41
22:CW:69:C:C4	22:CW:70:C:N4	2.89	0.41
35:DA:1198:U:O2	35:DA:1198:U:C2'	2.69	0.41
47:DO:91:LEU:N	47:DO:91:LEU:CD2	2.83	0.41
1:AA:1255:G:H2'	1:AA:1279:A:H62	1.86	0.41
2:CB:178:ARG:HD3	2:CB:178:ARG:HA	1.80	0.41
51:DS:42:ASP:O	51:DS:43:GLU:CB	2.69	0.41
35:BA:705:A:C6	35:BA:727:A:H1'	2.56	0.41
16:CP:75:ARG:HA	16:CP:80:PHE:HD1	1.85	0.41
36:BB:77:U:OP1	58:BZ:19:ARG:NH2	2.53	0.41
35:DA:2422:A:H3'	35:DA:2422:A:H8	1.86	0.41
35:DA:2696:U:H2'	35:DA:2697:G:H8	1.86	0.41
1:CA:17:U:H1'	1:CA:1080:A:N3	2.35	0.41
24:AY:673:PHE:CD2	24:AY:674:ASP:N	2.89	0.41
1:AA:32:A:C2	1:AA:33:A:C4	3.09	0.41
1:CA:32:A:C6	1:CA:33:A:C6	3.09	0.41
35:DA:2881:C:H2'	35:DA:2882:A:H8	1.87	0.41
35:BA:270:A:O2'	35:BA:271:A:H5'	2.20	0.41
20:AT:38:LYS:O	20:AT:39:LYS:C	2.58	0.41
56:DX:23:GLU:O	56:DX:25:LYS:N	2.48	0.41
8:AH:1:MET:O	8:AH:2:LEU:O	2.39	0.41
35:BA:1084:A:OP1	43:BJ:55:UNK:HA	2.20	0.41
35:DA:2773:C:H5"	39:DE:164:ARG:HG2	2.03	0.41
36:DB:36:C:H2'	36:DB:37:C:C6	2.55	0.41
1:AA:619:U:H6	1:AA:619:U:O5'	2.03	0.41
10:AJ:39:PRO:HG2	10:AJ:39:PRO:O	2.21	0.41
48:BP:119:GLU:HA	48:BP:119:GLU:OE1	2.21	0.41
1:AA:340:U:C2	1:AA:350:G:C2	3.09	0.41
24:CY:252:ASP:O	24:CY:254:LYS:HE3	2.21	0.41
45:DL:3:UNK:O	45:DL:7:UNK:CB	4.15	0.41
41:BG:117:PHE:HE1	41:BG:119:GLY:C	2.24	0.40
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.49	0.40
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:86:GLY:O	24:CY:88:VAL:N	2.54	0.40
24:CY:87:HIS:O	24:CY:88:VAL:C	2.59	0.40
24:AY:104:ALA:O	24:AY:132:ARG:HB2	2.21	0.40
24:AY:168:ILE:HG23	24:AY:205:TYR:CE2	2.55	0.40
24:AY:211:GLU:O	24:AY:215:LYS:HG3	2.20	0.40
22:AW:19:G:C6	22:AW:58:A:C6	3.08	0.40
46:BN:3:THR:CG2	46:BN:4:TYR:H	2.27	0.40
53:BU:78:THR:O	53:BU:79:PHE:C	2.59	0.40
53:BU:95:LEU:HD13	54:BV:4:ILE:CG2	2.48	0.40
24:AY:468:ARG:C	24:AY:470:PHE:N	2.73	0.40
33:B8:50:LEU:HA	33:B8:53:PRO:HG3	2.04	0.40
58:BZ:56:VAL:HG13	58:BZ:69:THR:O	2.21	0.40
35:BA:2334:G:N3	51:BS:18:ILE:HD13	2.36	0.40
48:DP:50:ARG:HG3	48:DP:51:PHE:N	2.35	0.40
41:DG:105:LYS:H	41:DG:105:LYS:HG3	1.49	0.40
24:CY:227:ILE:HD13	24:CY:242:LEU:HD23	2.03	0.40
37:DC:132:LEU:O	37:DC:138:LEU:N	2.48	0.40
41:BG:125:PHE:CZ	41:BG:173:LEU:HD12	2.56	0.40
50:BR:79:LEU:HD22	50:BR:83:ILE:HB	2.01	0.40
46:DN:13:TRP:O	46:DN:135:PRO:HD2	2.21	0.40
48:BP:12:ALA:CB	48:BP:16:ARG:HB3	2.50	0.40
12:AL:70:ILE:HG23	12:AL:100:ILE:HD12	2.03	0.40
44:DK:93:ARG:HD2	44:DK:93:ARG:O	2.20	0.40
58:DZ:110:GLY:HA2	58:DZ:145:GLU:OE1	2.21	0.40
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	2.02	0.40
46:BN:128:HIS:O	46:BN:130:HIS:N	2.54	0.40
48:DP:81:GLN:HE21	48:DP:81:GLN:HB2	1.67	0.40
39:BE:29:GLY:O	39:BE:30:PRO:C	2.58	0.40
35:BA:2712:U:O2'	35:BA:2712(A):A:C8	2.42	0.40
49:BQ:70:PRO:CA	49:BQ:95:ALA:HB2	2.51	0.40
3:AC:87:LEU:C	3:AC:89:GLU:N	2.69	0.40
35:DA:1061:U:H4'	35:DA:1070:A:C1'	2.45	0.40
35:DA:1061:U:H5''	35:DA:1062:G:OP2	2.20	0.40
35:DA:1999:C:H4'	35:DA:2723:C:O2	2.20	0.40
38:BD:266:SER:C	38:BD:267:SER:O	2.58	0.40
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.21	0.40
55:DW:5:ALA:HB2	55:DW:54:ALA:CB	2.39	0.40
55:DW:6:ILE:HA	55:DW:103:ILE:O	2.21	0.40
24:AY:300:GLU:O	24:AY:301:ILE:HD13	2.20	0.40
24:AY:335:LEU:HD23	24:AY:355:LEU:HD11	2.03	0.40
35:DA:545:C:C3'	35:DA:547:A:C5'	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:27:LEU:HA	44:DK:30:HIS:HB2	2.02	0.40
52:DT:55:ASN:HD22	52:DT:58:ASN:HD21	1.66	0.40
42:BH:163:TYR:CD1	42:BH:163:TYR:N	2.89	0.40
35:BA:979:G:H2'	35:BA:982:C:H41	1.86	0.40
24:CY:530:VAL:CG1	24:CY:533:VAL:CG2	2.99	0.40
4:AD:192:GLU:O	4:AD:194:LEU:N	2.54	0.40
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.20	0.40
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.36	0.40
12:CL:46:LYS:NZ	12:CL:94:PRO:HG3	2.35	0.40
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.51	0.40
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.45	0.40
35:BA:94:C:O2	35:BA:94:C:H2'	2.20	0.40
50:DR:3:HIS:O	50:DR:4:LEU:CB	2.69	0.40
1:CA:439:A:H2'	1:CA:441:A:C5'	2.51	0.40
40:BF:132:VAL:O	40:BF:138:GLU:OE1	2.39	0.40
24:AY:505:GLY:HA3	24:AY:576:ASP:OD1	2.20	0.40
1:CA:740:U:O2'	1:CA:741:G:C5'	2.68	0.40
12:CL:28:LYS:HE2	12:CL:33:ARG:CZ	2.51	0.40
13:AM:66:LEU:HA	13:AM:70:LEU:CD1	2.50	0.40
1:CA:1370:G:C2	1:CA:1371:G:N7	2.89	0.40
35:DA:1042:G:C6	35:DA:1114:G:N1	2.89	0.40
35:DA:2488:A:H2'	35:DA:2489:G:C8	2.57	0.40
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.22	0.40
35:BA:2657:A:O2'	42:BH:160:LYS:CE	2.68	0.40
43:DJ:58:UNK:O	43:DJ:61:UNK:N	2.53	0.40
46:DN:35:ARG:HB3	46:DN:42:TRP:CZ3	2.56	0.40
16:AP:75:ARG:HG3	16:AP:75:ARG:HH11	1.86	0.40
34:B9:29:ASN:HA	34:B9:30:PRO:HD2	1.89	0.40
9:AI:11:LYS:O	9:AI:12:GLU:HB2	2.21	0.40
4:CD:53:ASP:O	4:CD:57:ARG:HD2	2.21	0.40
24:AY:679:VAL:O	24:AY:681:LYS:N	2.46	0.40
35:DA:654(S):G:H3'	35:DA:654(T):C:C4'	2.51	0.40
10:CJ:24:VAL:C	10:CJ:26:ALA:N	2.75	0.40
3:AC:14:ILE:CG1	3:AC:15:THR:N	2.83	0.40
24:CY:168:ILE:HD12	24:CY:176:GLY:CA	2.45	0.40
35:DA:1788:C:H2'	35:DA:1789:A:C8	2.55	0.40
2:AB:110:GLN:H	2:AB:110:GLN:HG3	1.57	0.40
27:D2:59:ARG:HA	35:DA:76:C:HO2'	1.86	0.40
35:DA:695:G:N2	35:DA:696:G:H1'	2.36	0.40
42:BH:89:ILE:HD13	42:BH:94:TYR:HB3	2.03	0.40
35:DA:1640:C:H2'	35:DA:1641:A:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:11:LYS:HE2	35:BA:686:G:H5''	2.03	0.40
1:CA:476:G:H2'	1:CA:477:A:C8	2.56	0.40
47:DO:64:ARG:NH1	47:DO:83:ALA:CB	2.83	0.40
39:BE:167:VAL:HG13	39:BE:170:LEU:HD11	2.03	0.40
1:CA:160:A:H1'	1:CA:344:A:C4	2.57	0.40
54:DV:35:LEU:HB2	54:DV:57:VAL:HG12	2.03	0.40
48:BP:121:LYS:HB2	48:BP:123:LEU:HD21	2.03	0.40
35:DA:2652:C:C4	35:DA:2653:U:C4	3.09	0.40
35:BA:2242:G:N2	35:BA:2434:A:H2	2.19	0.40
35:DA:483:A:H3'	35:DA:484:C:H6	1.86	0.40
4:AD:121:VAL:N	4:AD:126:ILE:HD13	2.36	0.40
41:DG:11:TYR:OH	41:DG:33:ARG:CB	2.69	0.40
35:DA:1669:A:O3'	35:DA:2549:G:H5'	2.22	0.40
35:DA:1328:G:H2'	35:DA:1330:C:C5	2.56	0.40
20:AT:63:ILE:C	20:AT:65:LYS:N	2.74	0.40
24:CY:369:LEU:N	24:CY:369:LEU:CD1	2.84	0.40
50:DR:28:LEU:HA	50:DR:34:ILE:CG1	2.51	0.40
35:DA:13:A:H1'	35:DA:15:G:N7	2.36	0.40
43:DJ:37:UNK:O	43:DJ:39:UNK:N	2.54	0.40
17:CQ:53:LEU:HD23	17:CQ:54:GLY:N	2.35	0.40
13:AM:119:GLY:C	13:AM:121:LYS:H	2.24	0.40
35:BA:71:A:H5''	35:BA:72:U:O5'	2.21	0.40
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.56	0.40
24:CY:689:LYS:CG	24:CY:690:GLY:N	2.84	0.40
1:CA:707:C:H2'	1:CA:708:C:C6	2.55	0.40
17:CQ:45:HIS:HB2	17:CQ:65:ILE:CD1	2.51	0.40
37:BC:75:VAL:HG12	37:BC:76:LEU:N	2.36	0.40
35:BA:2861:G:C4	35:BA:2862:G:C8	3.09	0.40
1:AA:1493:A:O2'	1:AA:1494:G:OP1	2.33	0.40
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.51	0.40
39:BE:103:ASP:OD2	39:BE:168:MET:HE2	2.20	0.40
39:DE:168:MET:CE	39:DE:202:LYS:HE2	2.51	0.40
35:DA:1590:U:H2'	35:DA:1591:G:C8	2.56	0.40
1:AA:32:A:H3'	1:AA:33:A:H8	1.86	0.40
26:B1:53:VAL:CG1	26:B1:54:ALA:N	2.83	0.40
47:DO:119:PRO:HB2	52:DT:68:TYR:CE2	2.56	0.40
37:BC:181:PHE:HA	37:BC:182:PRO:HD3	1.85	0.40
1:AA:596:C:OP2	1:AA:597:G:OP2	2.39	0.40
24:AY:145:ASP:OD2	24:AY:148:LEU:HB2	2.21	0.40
1:AA:224:C:H2'	1:AA:225:C:C6	2.55	0.40
2:CB:130:ARG:HA	2:CB:131:PRO:HD2	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.82	0.40
1:AA:1098:C:O2'	1:AA:1099:G:H5'	2.21	0.40
56:DX:29:TRP:CZ3	56:DX:76:ARG:HB2	2.55	0.40
24:CY:219:VAL:HA	24:CY:222:ASP:OD2	2.22	0.40
35:DA:646:A:H2'	35:DA:647:G:O4'	2.21	0.40
1:CA:933:G:OP2	7:CG:3:ARG:HB3	2.21	0.40
35:BA:1863:G:H2'	35:BA:1864:U:O4'	2.22	0.40
24:CY:196:ILE:C	24:CY:196:ILE:HD12	2.41	0.40
10:AJ:12:ASP:OD1	10:AJ:15:THR:HG23	2.21	0.40
1:CA:1359:C:OP2	14:CN:22:THR:HG21	2.21	0.40
7:AG:52:GLU:O	7:AG:53:LYS:C	2.58	0.40
11:AK:93:GLN:O	11:AK:94:ALA:C	2.60	0.40
40:DF:32:LEU:C	40:DF:32:LEU:CD2	2.87	0.40
35:BA:2577:A:C5'	35:BA:2578:G:C5'	2.99	0.40
37:BC:84:ILE:HG23	37:BC:95:VAL:HG12	2.02	0.40
24:AY:20:HIS:CE1	24:AY:21:ILE:HG12	2.57	0.40
24:AY:216:LEU:CD2	24:AY:216:LEU:C	2.89	0.40
24:AY:238:THR:HG22	24:AY:241:GLU:H	1.83	0.40
53:DU:53:ARG:O	53:DU:54:LYS:C	2.59	0.40
24:AY:286:ILE:HG23	24:AY:287:PRO:HD2	2.04	0.40
53:BU:57:PHE:O	53:BU:59:ARG:N	2.54	0.40
1:CA:793:U:C3'	1:CA:794:A:C5'	2.90	0.40
24:AY:420:ASP:HB3	24:AY:472:VAL:HG13	2.02	0.40
31:B6:12:GLU:HG2	31:B6:23:THR:CG2	2.52	0.40
48:BP:56:SER:O	48:BP:58:THR:N	2.54	0.40
58:DZ:42:VAL:CG1	58:DZ:43:GLU:N	2.83	0.40
57:DY:97:ARG:O	57:DY:98:VAL:HB	2.21	0.40
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HB2	2.56	0.40
40:DF:182:ASN:ND2	40:DF:185:ASP:OD2	2.35	0.40
35:DA:2285:C:H5'	35:DA:2288:A:N6	2.36	0.40
29:D4:6:HIS:HB3	29:D4:7:PRO:CD	2.51	0.40
41:DG:71:THR:HG23	41:DG:89:GLY:HA3	2.03	0.40
19:CS:58:VAL:O	19:CS:60:VAL:HG12	2.21	0.40
57:BY:90:LEU:HB2	57:BY:91:GLU:OE2	2.20	0.40
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.36	0.40
5:AE:79:GLU:HB3	5:AE:93:PRO:CD	2.52	0.40
35:DA:805:G:H5'	35:DA:806:C:C5	2.56	0.40
48:DP:38:GLN:CG	48:DP:39:LYS:H	2.04	0.40
51:BS:65:VAL:C	51:BS:67:ARG:N	2.75	0.40
49:DQ:52:VAL:C	49:DQ:54:MET:N	2.74	0.40
35:DA:511:U:C5	35:DA:512:G:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DK:77:LEU:CD2	44:DK:77:LEU:N	2.77	0.40
48:DP:101:VAL:HG23	48:DP:102:ARG:N	2.36	0.40
48:BP:100:LEU:CD2	48:BP:100:LEU:N	2.84	0.40
48:BP:81:GLN:HG2	48:BP:106:LEU:HA	2.02	0.40
48:BP:107:LYS:HE3	48:BP:107:LYS:HB2	1.79	0.40
19:AS:45:VAL:O	19:AS:47:HIS:N	2.51	0.40
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.39	0.40
52:DT:89:VAL:CB	52:DT:91:ARG:HG3	2.50	0.40
29:D4:14:ILE:HG23	29:D4:31:ILE:HG22	2.03	0.40
10:AJ:50:ILE:HD11	14:AN:41:ARG:CZ	2.51	0.40
35:DA:2822:G:OP2	39:DE:110:GLY:O	2.39	0.40
40:BF:68:LYS:HG3	40:BF:69:HIS:CD2	2.55	0.40
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.86	0.40
29:D4:49:PHE:O	29:D4:50:VAL:O	2.40	0.40
58:DZ:157:LEU:O	58:DZ:158:PRO:O	2.39	0.40
35:BA:1061:U:H4'	35:BA:1070:A:C1'	2.45	0.40
44:BK:52:ILE:HG22	44:BK:53:VAL:N	2.37	0.40
2:CB:32:ILE:HG23	2:CB:32:ILE:O	2.20	0.40
2:CB:39:ILE:HG22	2:CB:41:ILE:HD12	2.02	0.40
46:DN:91:LEU:O	46:DN:95:PRO:HB3	2.22	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:O4'	2.20	0.40
52:DT:57:PHE:C	52:DT:58:ASN:ND2	2.73	0.40
38:DD:136:ILE:O	38:DD:136:ILE:HG22	2.20	0.40
42:BH:87:LEU:HD22	42:BH:163:TYR:O	2.21	0.40
24:AY:486:THR:CG2	24:AY:600:VAL:HG13	2.50	0.40
15:CO:82:ILE:O	15:CO:82:ILE:HD13	2.22	0.40
24:CY:128:TYR:HE2	24:CY:130:VAL:HG23	1.83	0.40
40:DF:61:GLY:O	40:DF:62:ARG:C	2.59	0.40
38:DD:27:THR:CG2	38:DD:27:THR:O	2.70	0.40
58:BZ:109:ALA:HB3	58:BZ:144:LEU:O	2.21	0.40
51:DS:97:ARG:CA	51:DS:97:ARG:HE	2.34	0.40
35:DA:1529:G:C6	35:DA:1541:G:N1	2.89	0.40
1:CA:244:U:C6	1:CA:894:G:C2	3.09	0.40
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	2.03	0.40
39:DE:95:ILE:CD1	39:DE:95:ILE:H	2.32	0.40
36:DB:115:G:H2'	36:DB:116:G:C8	2.53	0.40
4:AD:53:ASP:O	4:AD:57:ARG:HD2	2.22	0.40
4:AD:58:LEU:HD23	4:AD:62:GLN:HG2	2.03	0.40
4:AD:62:GLN:O	4:AD:66:ARG:HD2	2.21	0.40
20:AT:44:ALA:HA	20:AT:92:LEU:HD21	2.02	0.40
14:CN:23:ARG:CD	14:CN:28:GLY:O	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2122:U:O2'	37:BC:173:HIS:HD2	2.04	0.40
7:AG:80:VAL:CG2	7:AG:81:GLY:N	2.80	0.40
1:AA:1351:U:O2'	1:AA:1352:C:H5'	2.22	0.40
35:DA:1741:A:H2'	35:DA:1742:G:O4'	2.20	0.40
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	2.03	0.40
35:DA:2033:A:H2'	35:DA:2035:G:OP2	2.21	0.40
1:AA:50:A:N6	1:AA:361:G:C4'	2.79	0.40
28:B3:4:LEU:HD23	28:B3:58:VAL:HA	2.02	0.40
1:CA:1329:A:C2'	1:CA:1330:U:H5'	2.51	0.40
25:B0:20:ARG:CG	25:B0:20:ARG:NH1	2.84	0.40
1:AA:538:G:H2'	1:AA:539:A:C8	2.56	0.40
49:DQ:75:THR:CG2	49:DQ:76:LYS:H	2.34	0.40
4:AD:36:ARG:CG	4:AD:36:ARG:NH1	2.83	0.40
35:DA:2202:C:H2'	38:DD:151:LYS:HZ3	1.86	0.40
35:BA:1342:A:O2'	35:BA:1344:G:OP2	2.32	0.40
35:BA:1345:C:C2'	35:BA:1346:G:H5'	2.50	0.40
27:B2:57:ILE:HG22	27:B2:61:LEU:CD1	2.51	0.40
28:D3:59:VAL:CG1	28:D3:60:GLU:N	2.81	0.40
6:AF:12:PRO:C	6:AF:14:LEU:H	2.22	0.40
35:BA:1499:C:H2'	35:BA:1500:G:O4'	2.21	0.40
1:CA:203:U:C4'	1:CA:204:U:OP1	2.70	0.40
35:DA:1320:C:H2'	35:DA:1329:U:OP2	2.21	0.40
35:BA:1062:G:H22	35:BA:1077:A:H1'	1.86	0.40
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.84	0.40
57:BY:18:GLY:O	57:BY:21:LYS:HB2	2.21	0.40
1:AA:313:A:H2'	1:AA:314:C:C6	2.56	0.40
1:AA:955:U:H2'	1:AA:956:U:C6	2.56	0.40
24:CY:637:ARG:HG3	24:CY:642:VAL:CG2	2.51	0.40
53:DU:75:ASN:ND2	53:DU:77:SER:OG	2.54	0.40
7:CG:38:LEU:HD12	7:CG:38:LEU:O	2.22	0.40
19:CS:53:ASN:C	19:CS:55:LYS:N	2.75	0.40
35:DA:1907:G:C6	35:DA:1908:C:C4	3.09	0.40
39:DE:165:VAL:HB	39:DE:189:PRO:CB	2.52	0.40
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.19	0.40
1:AA:556:C:O2'	1:AA:557:G:H5'	2.21	0.40
22:AW:20:G:O6	22:AW:57:C:N4	2.54	0.40
8:CH:114:THR:C	8:CH:116:LYS:N	2.74	0.40
36:DB:73:A:C8	36:DB:74:U:C5	3.09	0.40
1:AA:532:A:O2'	1:AA:533:A:P	2.78	0.40
9:CI:56:LEU:HD23	9:CI:56:LEU:O	2.21	0.40
52:DT:113:LYS:C	52:DT:114:LEU:HD23	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:53:VAL:HG12	26:B1:54:ALA:N	2.36	0.40
1:AA:597:G:H1'	1:AA:644:G:N2	2.37	0.40
55:DW:62:HIS:O	55:DW:63:ASP:O	2.39	0.40
9:CI:97:LYS:O	9:CI:98:PRO:C	2.58	0.40
8:AH:1:MET:O	8:AH:2:LEU:C	2.59	0.40
1:AA:427:U:C4	1:AA:428:G:C6	3.09	0.40
4:CD:65:ARG:HD3	4:CD:75:PHE:CD2	2.55	0.40
45:DL:112:UNK:O	45:DL:117:UNK:CB	2.69	0.40
24:AY:304:ASP:C	24:AY:306:ASN:H	2.24	0.40
35:DA:1856:G:H1	35:DA:1886:C:H42	1.68	0.40
1:CA:1339:A:H2'	1:CA:1340:A:O4'	2.21	0.40
35:BA:1664:A:OP1	35:BA:1665:A:OP2	2.39	0.40
20:CT:38:LYS:O	20:CT:39:LYS:C	2.59	0.40
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	2.03	0.40
35:BA:594:U:H2'	35:BA:595:C:C6	2.56	0.40
1:CA:1397:C:H6	1:CA:1397:C:H3'	1.87	0.40
3:AC:124:ILE:O	3:AC:124:ILE:HG22	2.21	0.40
1:AA:902:G:H2'	1:AA:903:G:H8	1.86	0.40
29:B4:6:HIS:HB3	29:B4:7:PRO:CD	2.51	0.40
41:BG:71:THR:HG23	41:BG:90:LEU:CA	2.51	0.40
41:BG:7:LEU:O	41:BG:8:LYS:C	2.58	0.40
10:AJ:79:ARG:NH1	10:AJ:79:ARG:HG2	2.36	0.40
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.49	0.40
7:AG:82:GLY:CA	23:AX:13:A:H2	2.32	0.40
9:CI:60:ASP:O	9:CI:61:ALA:C	2.60	0.40
7:CG:82:GLY:CA	23:CX:13:A:H2	2.33	0.40
48:BP:6:LEU:HG	48:BP:7:ARG:H	1.84	0.40
54:DV:38:LEU:HD12	54:DV:56:SER:CA	2.51	0.40
54:DV:39:LEU:HD13	54:DV:51:VAL:HA	2.01	0.40
24:AY:487:ILE:HB	24:AY:597:GLY:O	2.21	0.40
58:DZ:34:ASN:O	58:DZ:35:ARG:HG2	2.21	0.40
19:CS:4:SER:O	19:CS:5:LEU:C	2.60	0.40
57:DY:87:LYS:HB3	57:DY:87:LYS:HE2	1.90	0.40
57:DY:7:VAL:HG11	57:DY:8:LYS:HZ1	1.85	0.40
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HB3	2.04	0.40
35:BA:272(J):C:N4	35:BA:363:G:H22	2.20	0.40
1:AA:1002:G:H3'	1:AA:1003:G:C8	2.56	0.40
57:BY:30:VAL:HG12	57:BY:31:LEU:N	2.37	0.40
40:DF:118:ALA:HA	40:DF:123:LEU:HB3	2.03	0.40
31:D6:5:VAL:CG2	35:DA:2283:C:OP1	2.70	0.40
35:DA:665:C:O5'	35:DA:665:C:H6	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D8:25:MET:HB2	48:DP:62:LEU:HD21	2.04	0.40
41:DG:47:LYS:HB3	41:DG:48:GLU:H	1.69	0.40
1:AA:946:A:H3'	1:AA:947:G:C8	2.56	0.40
57:BY:76:CYS:O	57:BY:77:PRO:C	2.60	0.40
1:AA:1319:A:OP1	19:AS:10:PHE:CZ	2.73	0.40
5:AE:78:HIS:HE1	5:AE:80:ILE:CG2	2.34	0.40
51:BS:74:ALA:HB2	51:BS:101:LEU:HD21	2.03	0.40
51:BS:66:ALA:O	51:BS:99:LYS:HD3	2.21	0.40
50:BR:30:THR:HA	50:BR:78:LYS:HZ3	1.85	0.40
50:BR:85:PRO:C	50:BR:87:TYR:N	2.73	0.40
8:CH:107:LEU:HD23	8:CH:107:LEU:HA	1.88	0.40
5:CE:51:VAL:O	5:CE:52:PRO:C	2.58	0.40
35:BA:511:U:H5	35:BA:512:G:C5	2.39	0.40
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.74	0.40
2:AB:152:PHE:O	2:AB:152:PHE:HD1	2.04	0.40
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.21	0.40
1:CA:1053:G:C4	1:CA:1199:U:C5	3.09	0.40
35:BA:2850:A:H2	50:BR:61:HIS:CD2	2.39	0.40
35:BA:654(L):G:C2'	35:BA:654(M):C:H4'	2.51	0.40
13:AM:117:VAL:O	13:AM:118:ALA:O	2.38	0.40
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.19	0.40
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.22	0.40
52:DT:30:VAL:HG22	52:DT:84:GLN:O	2.22	0.40
52:BT:8:LYS:C	52:BT:10:VAL:H	2.23	0.40
35:DA:979:G:H2'	35:DA:982:C:H41	1.87	0.40
42:BH:46:GLU:HG3	42:BH:51:ARG:CB	2.51	0.40
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	2.02	0.40
44:DK:5:VAL:HA	44:DK:59:ILE:HG23	2.02	0.40
52:BT:55:ASN:ND2	52:BT:55:ASN:O	2.55	0.40
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.03	0.40
29:B4:16:CYS:HB3	29:B4:20:ASN:O	2.21	0.40
35:BA:260:G:C1'	35:BA:621:A:H1'	2.52	0.40
40:BF:63:LYS:HA	40:BF:76:GLY:O	2.21	0.40
3:CC:149:ALA:HA	3:CC:201:TYR:O	2.22	0.40
41:DG:5:VAL:CB	41:DG:8:LYS:HB2	2.43	0.40
24:CY:265:LYS:C	24:CY:267:LYS:H	2.25	0.40
1:AA:363:A:H5'	12:AL:34:ARG:HB2	2.02	0.40
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.50	0.40
52:DT:32:TYR:O	52:DT:33:LYS:HB2	2.22	0.40
37:DC:30:VAL:HG11	37:DC:42:VAL:HG13	2.04	0.40
42:DH:41:MET:HG3	42:DH:42:ARG:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:461:C:N4	35:BA:469:G:N2	2.69	0.40
39:BE:28:ALA:CB	39:BE:93:VAL:HG22	2.51	0.40
35:DA:2076:U:C5	35:DA:2596:U:C2	3.08	0.40
39:DE:96:PHE:O	39:DE:175:VAL:HG11	2.21	0.40
35:DA:1051:G:C4	35:DA:1052:C:N4	2.89	0.40
35:DA:827:U:H4'	35:DA:828:U:O2	2.21	0.40
35:BA:1053:C:H2'	35:BA:1054:A:O4'	2.22	0.40
35:BA:887:A:N3	35:BA:887:A:H2'	2.37	0.40
35:BA:746:A:H2'	35:BA:2612:C:H5''	2.03	0.40
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.86	0.40
35:BA:1175:U:P	35:BA:1176:G:H5''	2.61	0.40
28:B3:22:ALA:CA	28:B3:46:ASN:HD22	2.34	0.40
2:AB:95:GLN:HA	2:AB:95:GLN:OE1	2.22	0.40
22:CV:4:G:O2'	22:CV:5:G:H8	2.03	0.40
15:AO:9:GLN:C	15:AO:11:VAL:N	2.75	0.40
35:DA:915:C:H2'	35:DA:916:G:C8	2.56	0.40
26:D1:30:VAL:CG2	26:D1:31:GLY:N	2.76	0.40
3:AC:134:ILE:O	3:AC:136:GLN:N	2.54	0.40
3:CC:134:ILE:O	3:CC:135:LYS:C	2.59	0.40
42:BH:124:GLU:HB2	42:BH:132:ARG:CG	2.49	0.40
1:CA:321:A:C2	1:CA:333:G:C2	3.09	0.40
1:AA:186:C:H2'	1:AA:187:C:C6	2.56	0.40
35:BA:1917:U:H2'	35:BA:1918:A:C5'	2.51	0.40
24:CY:448:GLN:HE22	24:CY:480:GLN:NE2	2.18	0.40
20:CT:84:LEU:C	20:CT:86:ARG:N	2.72	0.40
24:CY:507:TYR:O	24:CY:577:SER:HA	2.21	0.40
49:BQ:68:ILE:CG2	49:BQ:103:MET:HA	2.52	0.40
57:DY:52:SER:O	57:DY:53:PRO:C	2.60	0.40
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.56	0.40
41:BG:14:GLU:C	41:BG:17:PRO:HD2	2.41	0.40
35:BA:1073:A:H2'	35:BA:1074:G:H5'	2.02	0.40
35:BA:2026:C:C4	35:BA:2027:G:C8	3.09	0.40
35:BA:2841:C:O2'	35:BA:2842:G:H5'	2.21	0.40
35:BA:321:G:N2	35:BA:341:G:H5''	2.36	0.40
35:BA:341:G:H2'	35:BA:342:G:C8	2.56	0.40
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.21	0.40
24:CY:309:LEU:O	24:CY:390:VAL:HA	2.21	0.40
35:BA:216:A:C4	35:BA:432:A:C2	3.10	0.40
35:DA:1226:A:H2'	35:DA:1227:G:H5'	2.04	0.40
35:DA:1993:U:C5'	39:DE:128:SER:HB3	2.52	0.40
35:BA:654(O):G:H2'	35:BA:654(P):C:C5	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:10:ILE:HG13	34:B9:10:ILE:H	1.74	0.40
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	2.02	0.40
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.81	0.40
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.42	0.40
37:DC:181:PHE:HA	37:DC:182:PRO:HD3	1.84	0.40
35:BA:205:G:HO2'	35:BA:206:U:P	2.42	0.40
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	2.03	0.40
22:AW:77:A:H61	35:BA:2422:A:H5''	1.86	0.40
1:AA:894:G:H2'	1:AA:895:G:O4'	2.22	0.40
35:DA:1398:C:H2'	35:DA:1399:C:C6	2.55	0.40
1:AA:238:G:P	17:AQ:25:ARG:HH22	2.44	0.40
1:CA:908:A:O2'	1:CA:909:A:H5'	2.22	0.40
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.51	0.40
49:DQ:26:TYR:CD1	49:DQ:140:ALA:HB3	2.57	0.40
35:BA:1131:G:OP1	46:BN:80:GLY:N	2.49	0.40
38:DD:165:ILE:HD13	38:DD:175:LEU:CD2	2.51	0.40
27:B2:31:GLU:O	27:B2:35:LEU:N	2.46	0.40
1:CA:841:U:H3'	1:CA:848:C:O4'	2.21	0.40
44:BK:104:VAL:CG2	44:BK:127:ILE:HB	2.51	0.40
55:BW:62:HIS:O	55:BW:63:ASP:O	2.39	0.40
20:CT:64:ASP:OD1	20:CT:81:LYS:HD2	2.21	0.40
58:BZ:175:VAL:HB	58:BZ:176:PRO:CD	2.52	0.40
35:DA:854:G:H1	35:DA:923:C:H42	1.70	0.40
37:BC:37:LYS:O	37:BC:38:PHE:HB3	2.21	0.40
48:BP:119:GLU:CA	48:BP:119:GLU:OE1	2.69	0.40
35:DA:2354:G:H2'	35:DA:2355:C:H6	1.86	0.40
4:AD:6:GLY:O	4:AD:7:PRO:C	2.60	0.40
16:AP:6:LEU:HA	16:AP:6:LEU:HD12	1.89	0.40
37:DC:3:LYS:O	37:DC:3:LYS:HD3	2.21	0.40
35:BA:523:C:H6	35:BA:523:C:H3'	1.87	0.40
5:AE:124:GLY:O	5:AE:125:SER:C	2.59	0.40
15:CO:33:THR:HG23	15:CO:63:ARG:HH12	1.86	0.40
35:BA:700:G:H2'	35:BA:701:G:H8	1.85	0.40
40:DF:29:ASN:HB3	40:DF:32:LEU:HB3	2.03	0.40
41:BG:139:LEU:HA	41:BG:144:ILE:HD13	2.04	0.40
41:BG:119:GLY:CA	41:BG:181:ARG:H	2.35	0.40
41:BG:41:GLN:NE2	41:BG:60:LEU:HD21	2.37	0.40
35:DA:2012:G:O3'	55:DW:96:ILE:HG13	2.20	0.40
37:BC:149:ASN:HD22	37:BC:149:ASN:C	2.24	0.40
37:BC:154:ILE:HA	37:BC:157:ILE:HD12	2.03	0.40
4:AD:25:ARG:C	4:AD:27:TYR:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:141:LYS:O	24:CY:144:ALA:CB	2.69	0.40
35:BA:613:G:C2	35:BA:615:G:C5	3.09	0.40
35:DA:2474:C:H5'	35:DA:2475:C:C5	2.56	0.40
58:DZ:120:ILE:O	58:DZ:121:HIS:HB2	2.20	0.40
22:AW:6:G:H2'	22:AW:7:G:O4'	2.21	0.40
53:BU:99:ALA:HB2	53:BU:106:PHE:CZ	2.56	0.40
61:AY:702:FUA:H72	61:AY:702:FUA:H212	1.88	0.40
38:DD:35:LYS:HA	38:DD:64:ILE:H	1.86	0.40
31:B6:27:LYS:HB3	31:B6:30:THR:CG2	2.51	0.40
31:B6:8:LYS:O	31:B6:9:LEU:O	2.39	0.40
58:DZ:29:TYR:CB	58:DZ:34:ASN:HB2	2.36	0.40
35:BA:1568:G:H4'	38:BD:59:LYS:HB3	2.04	0.40
35:DA:272(J):C:H3'	35:DA:274:G:C5'	2.32	0.40
58:BZ:67:LEU:HD23	58:BZ:90:VAL:CG1	2.51	0.40
31:D6:11:LEU:HA	31:D6:54:ILE:O	2.22	0.40
31:D6:8:LYS:HA	31:D6:27:LYS:HA	2.02	0.40
33:D8:32:LEU:HB2	33:D8:36:LYS:HD2	2.03	0.40
35:DA:2392:A:H2	35:DA:2424:C:N4	2.19	0.40
33:D8:58:ILE:CG2	48:DP:49:ARG:HD3	2.52	0.40
41:DG:46:ALA:HA	41:DG:51:ARG:CB	2.51	0.40
57:BY:87:LYS:O	57:BY:88:LYS:HB2	2.20	0.40
35:DA:820:A:N3	35:DA:943:U:H4'	2.37	0.40
24:CY:35:TYR:HB2	24:CY:273:LEU:HD11	2.04	0.40
24:AY:590:ILE:O	24:AY:592:GLU:N	2.53	0.40
18:AR:36:ASN:O	18:AR:39:VAL:HG23	2.22	0.40
40:BF:10:PRO:CG	40:BF:13:SER:OG	2.69	0.40
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.47	0.40
1:CA:975:A:H4'	1:CA:976:G:C5'	2.33	0.40
35:BA:1156:A:O2'	35:BA:1157:G:P	2.80	0.40
53:BU:17:ILE:C	53:BU:19:LYS:N	2.75	0.40
35:BA:1819:A:O2'	35:BA:1820:U:OP2	2.33	0.40
27:D2:24:LEU:HD13	27:D2:60:LEU:HD21	2.02	0.40
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.57	0.40
2:CB:236:TYR:O	2:CB:237:ALA:C	2.60	0.40
2:CB:58:ILE:O	2:CB:61:LEU:N	2.47	0.40
44:BK:57:ILE:CD1	44:BK:57:ILE:H	2.30	0.40
39:DE:55:ASN:C	39:DE:57:LYS:N	2.74	0.40
42:BH:66:GLY:O	42:BH:67:LEU:C	2.58	0.40
38:DD:150:LYS:HA	38:DD:150:LYS:HD3	1.98	0.40
39:DE:31:CYS:HA	39:DE:32:PRO:HD3	1.82	0.40
39:DE:36:ARG:HH21	39:DE:88:GLY:N	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.73	0.40
27:B2:38:GLN:NE2	27:B2:44:LEU:HB2	2.36	0.40
1:CA:109:A:C6	1:CA:326:G:C6	3.08	0.40
9:AI:114:TYR:N	9:AI:114:TYR:HD2	2.20	0.40
5:CE:105:VAL:O	5:CE:106:PRO:C	2.58	0.40
1:CA:1228:C:C5	1:CA:1229:A:N7	2.90	0.40
1:AA:671:G:N2	1:AA:736:C:C2	2.89	0.40
37:DC:154:ILE:HA	37:DC:157:ILE:HD12	2.04	0.40
35:DA:204:A:OP1	35:DA:204:A:H8	2.04	0.40
35:DA:1608:A:C6	35:DA:1611:C:C2	3.09	0.40
42:BH:83:TYR:CB	42:BH:135:GLY:H	2.27	0.40
24:CY:171:GLU:HG3	24:CY:172:ASP:N	2.37	0.40
13:CM:68:GLY:O	13:CM:70:LEU:N	2.52	0.40
46:BN:94:HIS:HA	46:BN:96:GLU:OE1	2.21	0.40
35:BA:2174:C:O2'	35:BA:2175:C:H5'	2.21	0.40
35:DA:1314:C:H6	35:DA:1314:C:C5'	2.26	0.40
58:BZ:80:ARG:O	58:BZ:81:ARG:C	2.59	0.40
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.87	0.40
1:CA:1342:C:H1'	9:CI:124:GLN:CG	2.52	0.40
7:AG:46:ALA:O	7:AG:49:ILE:N	2.55	0.40
12:AL:60:LEU:CD2	12:AL:60:LEU:N	2.83	0.40
5:CE:81:GLU:HA	5:CE:89:ILE:O	2.21	0.40
1:CA:725:G:O2'	1:CA:726:C:H5'	2.21	0.40
35:DA:1434:A:H2'	35:DA:1434:A:N3	2.36	0.40
35:DA:1053:C:H2'	35:DA:1054:A:O4'	2.21	0.40
37:BC:29:LEU:O	37:BC:32:GLU:N	2.43	0.40
37:BC:100:ILE:O	37:BC:102:GLN:N	2.54	0.40
1:CA:625:G:C4	1:CA:626:U:C5	3.09	0.40
1:AA:631:G:H5'	1:AA:631:G:C8	2.52	0.40
56:DX:8:ILE:CD1	56:DX:42:ALA:O	2.69	0.40
35:DA:883:G:N2	35:DA:894:C:C2	2.89	0.40
24:CY:122:TRP:O	24:CY:124:GLN:N	2.55	0.40
16:AP:74:LEU:O	16:AP:77:ALA:HB3	2.22	0.40
35:BA:752:A:H4'	35:BA:753:C:O5'	2.22	0.40
7:CG:146:GLU:O	7:CG:147:ALA:C	2.60	0.40
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	2.02	0.40
35:BA:1334:G:O3'	56:BX:65:ARG:NH2	2.55	0.40
25:D0:24:LYS:HA	25:D0:24:LYS:HD3	1.93	0.40
35:BA:2031:A:N3	35:BA:2455:G:O2'	2.53	0.40
1:AA:1423:G:OP1	47:BO:49:ARG:NH2	2.55	0.40
28:B3:22:ALA:HA	28:B3:46:ASN:HD22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:13:A:H1'	35:BA:15:G:N7	2.37	0.40
35:DA:1789:A:H2'	35:DA:1790:C:O4'	2.21	0.40
10:AJ:24:VAL:C	10:AJ:26:ALA:N	2.73	0.40
1:AA:1094:G:HO2'	1:AA:1095:U:P	2.45	0.40
7:AG:120:ILE:O	7:AG:124:LEU:HB2	2.21	0.40
24:AY:496:LYS:HA	24:AY:509:HIS:HB2	2.04	0.40
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	2.33	0.40
39:BE:167:VAL:HG22	39:BE:170:LEU:HD11	2.02	0.40
48:DP:13:ASN:ND2	48:DP:13:ASN:O	2.54	0.40
5:AE:149:GLU:O	5:AE:153:LYS:HE2	2.21	0.40
46:BN:55:VAL:CG2	46:BN:127:ASP:N	2.83	0.40
35:BA:2412:A:N6	35:BA:2413:G:C2	2.89	0.40
38:DD:226:MET:HB3	38:DD:230:ASP:CB	2.48	0.40
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.35	0.40
11:CK:34:ASP:OD2	11:CK:34:ASP:C	2.59	0.40
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	2.03	0.40
35:DA:1277:G:O2'	50:DR:24:GLN:HG2	2.20	0.40
39:BE:16:ARG:O	39:BE:18:ASP:N	2.55	0.40
1:AA:157:G:C2	1:AA:165:C:C2	3.08	0.40
35:BA:266:G:O6	35:BA:267:C:C4	2.75	0.40
35:DA:332:A:O2'	35:DA:333:G:P	2.80	0.40
13:AM:64:TRP:CD1	13:AM:64:TRP:N	2.88	0.40
35:BA:311:A:O4'	35:BA:332:A:C4	2.74	0.40
35:BA:332:A:C6	35:BA:335:C:C2	3.10	0.40
35:DA:654(O):G:H2'	35:DA:654(P):C:C5	2.56	0.40
35:BA:307:G:N2	35:BA:310:A:O5'	2.55	0.40
35:DA:206:U:C2'	35:DA:206:U:O2	2.69	0.40
35:BA:2422:A:H3'	35:BA:2422:A:C8	2.57	0.40
44:BK:61:ALA:O	44:BK:63:ARG:N	2.55	0.40
44:DK:61:ALA:C	44:DK:63:ARG:N	2.75	0.40
35:DA:2693:A:C6	35:DA:2717:G:C6	3.09	0.40
35:BA:2193:G:O2'	35:BA:2194:G:H5'	2.22	0.40
35:BA:1680:U:C2'	35:BA:1681:G:H5'	2.51	0.40
8:CH:35:ILE:HG22	8:CH:39:LEU:CD2	2.51	0.40
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.61	0.40
35:BA:2653:U:O2'	42:BH:110:SER:CB	2.69	0.40
1:AA:532:A:C2'	1:AA:533:A:OP1	2.69	0.40
24:AY:78:ARG:HH11	24:AY:78:ARG:HG3	1.87	0.40
1:CA:315:A:O2'	1:CA:316:G:P	2.79	0.40
35:DA:1005:C:OP2	35:DA:1011:G:H2'	2.22	0.40
37:DC:16:ASP:HA	37:DC:17:PRO:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:78:LEU:HB3	52:DT:79:HIS:CE1	2.57	0.40
52:BT:19:LEU:HA	52:BT:20:PRO:HD3	1.80	0.40
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.57	0.40
47:DO:68:GLU:CB	47:DO:78:ARG:HB2	2.52	0.40
47:DO:68:GLU:N	47:DO:68:GLU:OE2	2.54	0.40
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.35	0.40
28:B3:12:PRO:O	28:B3:13:ILE:C	2.58	0.40
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	2.03	0.40
35:BA:1024:G:OP2	35:BA:1026:U:OP1	2.38	0.40
26:D1:17:SER:HB3	26:D1:38:SER:OG	2.22	0.40
1:CA:778:G:H1'	11:CK:119:CYS:HB3	2.03	0.40
26:D1:43:TYR:CD1	26:D1:43:TYR:N	2.89	0.40
35:DA:2880:C:H6	35:DA:2880:C:O5'	2.05	0.40
35:BA:2582:G:H2'	35:BA:2582:G:N3	2.35	0.40
11:AK:41:THR:HG23	11:AK:41:THR:O	2.21	0.40
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.21	0.40
43:DJ:123:UNK:O	43:DJ:124:UNK:C	2.69	0.40
24:AY:616:TYR:O	24:AY:617:MET:C	2.60	0.40
41:BG:106:LEU:HG	41:BG:106:LEU:O	2.20	0.40
41:BG:34:LEU:HD11	41:BG:100:TRP:CZ2	2.55	0.40
41:BG:44:GLY:O	41:BG:47:LYS:CD	2.70	0.40
35:BA:2579:C:H6	35:BA:2579:C:O5'	2.05	0.40
1:CA:407:G:H2'	1:CA:408:A:C8	2.54	0.40
35:DA:1043:C:H6	35:DA:1043:C:O5'	2.05	0.40
24:CY:141:LYS:O	24:CY:144:ALA:HB2	2.22	0.40
30:B5:19:ARG:HA	35:BA:2046:G:H5''	2.01	0.40
40:BF:157:VAL:CG2	40:BF:194:MET:HA	2.52	0.40
9:CI:4:TYR:CB	9:CI:19:LEU:HB2	2.22	0.40
34:D9:3:VAL:HG21	35:DA:2539:C:H4'	2.04	0.40
46:BN:40:PRO:O	53:BU:64:ARG:NH2	2.53	0.40
24:AY:435:ASP:OD2	24:AY:437:THR:OG1	2.35	0.40
58:DZ:35:ARG:NH1	58:DZ:35:ARG:CG	2.82	0.40
35:BA:83:G:H22	35:BA:102:G:H2'	1.84	0.40
35:BA:1485:G:N2	35:BA:1504:C:O2	2.55	0.40
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.21	0.40
35:DA:2393:A:H2'	35:DA:2394:C:O4'	2.22	0.40
35:DA:1453:U:OP1	50:DR:63:ARG:NH2	2.54	0.40
47:DO:114:ILE:O	47:DO:117:LEU:N	2.45	0.40
41:BG:37:VAL:HG22	41:BG:159:VAL:HB	2.03	0.40
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.67	0.40
35:BA:812:C:C2	35:BA:813:U:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1010:A:H1'	35:DA:1153:C:C1'	2.49	0.40
35:DA:999:U:O2	35:DA:1157:G:C2	2.75	0.40
35:DA:811:U:O2	35:DA:1251:C:C6	2.75	0.40
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.50	0.40
35:DA:2454:G:H2'	35:DA:2455:G:C5'	2.52	0.40
35:BA:637:A:N6	35:BA:652:C:H4'	2.36	0.40
48:BP:91:PHE:HZ	48:BP:100:LEU:CD1	2.32	0.40
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.21	0.40
13:CM:49:THR:C	13:CM:51:ALA:H	2.25	0.40
35:BA:1016:G:H1	35:BA:1146:C:H42	1.69	0.40
1:CA:1442(B):A:C5	52:DT:118:ARG:NE	2.89	0.40
1:AA:963:G:H21	10:AJ:55:LYS:HD2	1.86	0.40
35:BA:2867:G:OP2	52:BT:119:LYS:NZ	2.54	0.40
54:DV:19:LYS:HG2	54:DV:94:LEU:CB	2.47	0.40
35:DA:2821:A:OP2	39:DE:110:GLY:O	2.39	0.40
2:AB:212:GLN:OE1	2:AB:216:SER:HB2	2.22	0.40
57:BY:11:ASP:O	57:BY:27:VAL:HA	2.22	0.40
42:BH:41:MET:HE2	42:BH:43:VAL:HA	2.04	0.40
26:B1:12:PRO:HG3	35:BA:1365:A:H5'	2.04	0.40
58:DZ:129:SER:HB2	58:DZ:131:ARG:CD	2.52	0.40
44:DK:30:HIS:CE1	44:DK:59:ILE:HB	2.56	0.40
44:DK:6:ALA:HB3	44:DK:59:ILE:HG22	2.03	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:C8	2.56	0.40
1:CA:301:G:H2'	1:CA:302:G:H8	1.87	0.40
24:AY:554:PRO:HG2	24:AY:555:LEU:HG	2.04	0.40
15:CO:74:ASP:O	15:CO:76:GLU:N	2.53	0.40
52:BT:50:ILE:HD11	52:BT:64:ARG:HB3	2.03	0.40
24:CY:128:TYR:CD1	24:CY:128:TYR:O	2.75	0.40
24:AY:152:THR:CG2	24:AY:153:MET:N	2.84	0.40
53:DU:33:ARG:C	53:DU:35:ALA:H	2.25	0.40
35:DA:2019:A:C4'	53:DU:34:LYS:HD2	2.51	0.40
35:BA:1337:G:H2'	35:BA:1338:G:H8	1.86	0.40
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	2.03	0.40
1:CA:436:C:O2'	1:CA:437:U:P	2.80	0.40
42:BH:19:VAL:O	42:BH:20:ALA:CB	2.69	0.40
35:DA:1049:C:H6	35:DA:1049:C:H5'	1.86	0.40
1:AA:1296:C:O2'	1:AA:1302:U:C5	2.63	0.40
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.51	0.40
35:BA:121:G:N2	35:BA:122:G:H1'	2.36	0.40
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.25	0.40
40:BF:89:VAL:CG1	40:BF:90:PHE:H	2.27	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:159:ARG:O	4:CD:160:GLN:C	2.60	0.40
35:BA:910:A:C6	35:BA:911:A:C6	3.10	0.40
35:DA:482:A:N6	35:DA:506:G:C8	2.89	0.40
58:BZ:162:GLU:O	58:BZ:163:LEU:C	2.60	0.40
16:CP:60:LEU:HA	16:CP:60:LEU:HD23	1.94	0.40
39:DE:167:VAL:HG13	39:DE:170:LEU:HD11	2.03	0.40
1:CA:267:C:H2'	1:CA:268:C:C6	2.47	0.40
10:AJ:67:THR:HG22	10:AJ:67:THR:O	2.21	0.40
42:DH:28:GLY:HA3	42:DH:79:VAL:HG21	2.02	0.40
48:BP:71:VAL:N	48:BP:72:PRO:CD	2.85	0.40
44:BK:41:PHE:O	44:BK:43:ALA:N	2.54	0.40
2:AB:194:PRO:O	2:AB:195:ASP:C	2.59	0.40
35:DA:2652:C:H42	35:DA:2668:G:H1	1.70	0.40
35:BA:2244:U:O5'	35:BA:2244:U:H6	2.04	0.40
35:BA:2078:C:H1'	35:BA:2434:A:H1'	2.04	0.40
36:BB:29:A:C2	36:BB:56:G:C2	3.10	0.40
24:CY:507:TYR:C	24:CY:507:TYR:HD1	2.22	0.40
35:BA:1278:A:C5'	50:BR:36:THR:HG22	2.50	0.40
54:BV:32:THR:HG23	54:BV:60:GLU:HA	2.04	0.40
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	2.22	0.40
54:DV:32:THR:HG23	54:DV:60:GLU:HA	2.04	0.40
35:BA:271(E):U:H2'	35:BA:271(F):C:H6	1.85	0.40
24:AY:455:GLY:O	24:AY:456:GLU:C	2.59	0.40
7:AG:61:VAL:O	7:AG:62:PHE:C	2.59	0.40
17:AQ:53:LEU:HD23	17:AQ:53:LEU:C	2.42	0.40
1:CA:313:A:H2'	1:CA:314:C:C6	2.57	0.40
24:AY:137:ASN:O	24:AY:262:SER:HA	2.21	0.40
35:BA:572:A:H2'	35:BA:573:G:O4'	2.22	0.40
1:CA:977:A:HO2'	1:CA:978:A:H5'	1.87	0.40
35:DA:626:U:N3	48:DP:105:LEU:HG	2.36	0.40
35:BA:1398:C:H2'	35:BA:1399:C:C6	2.54	0.40
35:BA:1459:G:O2'	35:BA:1461:G:H5'	2.22	0.40
1:AA:262:A:C6	1:AA:263:A:C6	3.09	0.40
4:AD:149:ALA:O	4:AD:153:ARG:HG3	2.22	0.40
58:BZ:127:LYS:HZ3	58:BZ:127:LYS:HB3	1.86	0.40
27:B2:29:LYS:O	27:B2:32:LEU:N	2.55	0.40
8:CH:43:GLY:O	8:CH:64:LYS:NZ	2.42	0.40
1:AA:707:C:H2'	1:AA:708:C:C6	2.57	0.40
53:DU:104:GLN:HB3	54:DV:44:LYS:HZ3	1.87	0.40
35:BA:635:C:O2'	35:BA:639:U:OP1	2.38	0.40
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:772:C:O2'	35:DA:773:U:H5'	2.21	0.40
1:AA:910:C:O2'	1:AA:911:U:H5'	2.22	0.40
37:DC:172:ILE:HG21	37:DC:197:LEU:HD11	2.03	0.40
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	2.03	0.40
7:CG:134:ALA:O	7:CG:135:VAL:C	2.60	0.40
1:CA:841:U:H3'	1:CA:848:C:H5'	2.04	0.40
35:BA:777:A:C2	35:BA:778:G:C4	3.10	0.40
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.51	0.40
35:BA:1571:A:H8	35:BA:1571:A:O5'	2.04	0.40
35:BA:2516:G:O2'	35:BA:2517:C:H5'	2.21	0.40
50:DR:88:ARG:HD2	50:DR:88:ARG:O	2.21	0.40
35:DA:312:G:H2'	35:DA:313:C:O4'	2.22	0.40
1:AA:1465:C:C2'	1:AA:1466:C:H5'	2.52	0.40
1:AA:563:A:N7	1:AA:567:G:H1'	2.36	0.40
5:CE:128:PRO:O	5:CE:129:ILE:C	2.60	0.40
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.51	0.40
7:AG:77:SER:OG	22:AW:33:C:O3'	2.40	0.40
3:CC:9:GLY:HA2	3:CC:12:LEU:HG	2.04	0.40
1:AA:226:G:O2'	1:AA:227:G:H5'	2.22	0.40
13:CM:40:ASN:HD21	13:CM:42:ALA:HB3	1.86	0.40
24:CY:345:THR:O	24:CY:345:THR:HG22	2.21	0.40
16:AP:52:ASP:C	16:AP:52:ASP:OD2	2.58	0.40
43:DJ:69:UNK:O	43:DJ:70:UNK:O	2.40	0.40
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	2.03	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:65:GLY:O	37:DC:28:ARG:NH2[2_646]	1.56	0.64
2:CB:65:GLY:O	37:DC:28:ARG:CZ[2_646]	1.87	0.33

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	139 (60%)	53 (23%)	41 (18%)	0	3
2	CB	233/256 (91%)	140 (60%)	51 (22%)	42 (18%)	0	3
3	AC	205/239 (86%)	133 (65%)	50 (24%)	22 (11%)	0	10
3	CC	205/239 (86%)	132 (64%)	52 (25%)	21 (10%)	1	11
4	AD	206/209 (99%)	134 (65%)	50 (24%)	22 (11%)	0	10
4	CD	206/209 (99%)	134 (65%)	51 (25%)	21 (10%)	1	11
5	AE	149/162 (92%)	119 (80%)	21 (14%)	9 (6%)	2	24
5	CE	149/162 (92%)	117 (78%)	24 (16%)	8 (5%)	2	27
6	AF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	1	19
6	CF	99/101 (98%)	74 (75%)	18 (18%)	7 (7%)	1	19
7	AG	153/156 (98%)	109 (71%)	34 (22%)	10 (6%)	1	22
7	CG	153/156 (98%)	110 (72%)	32 (21%)	11 (7%)	1	19
8	AH	136/138 (99%)	103 (76%)	30 (22%)	3 (2%)	8	51
8	CH	136/138 (99%)	105 (77%)	27 (20%)	4 (3%)	6	44
9	AI	121/128 (94%)	81 (67%)	26 (22%)	14 (12%)	0	9
9	CI	121/128 (94%)	82 (68%)	27 (22%)	12 (10%)	1	12
10	AJ	97/105 (92%)	60 (62%)	21 (22%)	16 (16%)	0	4
10	CJ	97/105 (92%)	61 (63%)	20 (21%)	16 (16%)	0	4
11	AK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	2	28
11	CK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	2	28
12	AL	123/132 (93%)	82 (67%)	23 (19%)	18 (15%)	0	5
12	CL	123/132 (93%)	82 (67%)	22 (18%)	19 (15%)	0	4
13	AM	123/126 (98%)	77 (63%)	25 (20%)	21 (17%)	0	3
13	CM	123/126 (98%)	77 (63%)	26 (21%)	20 (16%)	0	4
14	AN	58/61 (95%)	47 (81%)	7 (12%)	4 (7%)	1	20
14	CN	58/61 (95%)	46 (79%)	7 (12%)	5 (9%)	1	14
15	AO	86/89 (97%)	55 (64%)	23 (27%)	8 (9%)	1	13
15	CO	86/89 (97%)	53 (62%)	24 (28%)	9 (10%)	1	10
16	AP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	1	14
16	CP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	AQ	98/105 (93%)	78 (80%)	15 (15%)	5 (5%)	2	28
17	CQ	98/105 (93%)	78 (80%)	16 (16%)	4 (4%)	3	34
18	AR	68/88 (77%)	52 (76%)	11 (16%)	5 (7%)	1	18
18	CR	68/88 (77%)	51 (75%)	12 (18%)	5 (7%)	1	18
19	AS	77/93 (83%)	43 (56%)	14 (18%)	20 (26%)	0	1
19	CS	77/93 (83%)	43 (56%)	15 (20%)	19 (25%)	0	1
20	AT	97/106 (92%)	52 (54%)	30 (31%)	15 (16%)	0	4
20	CT	97/106 (92%)	53 (55%)	29 (30%)	15 (16%)	0	4
21	AU	23/27 (85%)	14 (61%)	6 (26%)	3 (13%)	0	7
21	CU	23/27 (85%)	14 (61%)	5 (22%)	4 (17%)	0	3
24	AY	663/691 (96%)	435 (66%)	137 (21%)	91 (14%)	0	6
24	CY	663/691 (96%)	449 (68%)	134 (20%)	80 (12%)	0	8
25	B0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	3	29
25	D0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	3	29
26	B1	92/98 (94%)	64 (70%)	15 (16%)	13 (14%)	0	5
26	D1	92/98 (94%)	67 (73%)	13 (14%)	12 (13%)	0	7
27	B2	69/72 (96%)	35 (51%)	18 (26%)	16 (23%)	0	1
27	D2	69/72 (96%)	29 (42%)	31 (45%)	9 (13%)	0	7
28	B3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	1	14
28	D3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	1	14
29	B4	56/71 (79%)	27 (48%)	14 (25%)	15 (27%)	0	0
29	D4	56/71 (79%)	28 (50%)	13 (23%)	15 (27%)	0	0
30	B5	57/60 (95%)	37 (65%)	9 (16%)	11 (19%)	0	2
30	D5	57/60 (95%)	38 (67%)	7 (12%)	12 (21%)	0	2
31	B6	48/54 (89%)	21 (44%)	12 (25%)	15 (31%)	0	0
31	D6	48/54 (89%)	22 (46%)	12 (25%)	14 (29%)	0	0
32	B7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	9	52
32	D7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	9	52
33	B8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	2
33	D8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	2
34	B9	35/37 (95%)	21 (60%)	9 (26%)	5 (14%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	D9	35/37 (95%)	21 (60%)	8 (23%)	6 (17%)	0	3
37	BC	226/229 (99%)	163 (72%)	51 (23%)	12 (5%)	2	27
37	DC	226/229 (99%)	163 (72%)	50 (22%)	13 (6%)	2	25
38	BD	273/276 (99%)	189 (69%)	50 (18%)	34 (12%)	0	8
38	DD	273/276 (99%)	188 (69%)	50 (18%)	35 (13%)	0	7
39	BE	203/206 (98%)	122 (60%)	45 (22%)	36 (18%)	0	3
39	DE	203/206 (98%)	124 (61%)	44 (22%)	35 (17%)	0	3
40	BF	206/210 (98%)	132 (64%)	44 (21%)	30 (15%)	0	5
40	DF	206/210 (98%)	133 (65%)	42 (20%)	31 (15%)	0	5
41	BG	177/182 (97%)	110 (62%)	43 (24%)	24 (14%)	0	6
41	DG	177/182 (97%)	115 (65%)	36 (20%)	26 (15%)	0	5
42	BH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	1
42	DH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	1
44	BK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	16
44	DK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	16
46	BN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	4
46	DN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	4
47	BO	120/122 (98%)	91 (76%)	19 (16%)	10 (8%)	1	15
47	DO	120/122 (98%)	93 (78%)	17 (14%)	10 (8%)	1	15
48	BP	144/150 (96%)	72 (50%)	45 (31%)	27 (19%)	0	3
48	DP	144/150 (96%)	72 (50%)	44 (31%)	28 (19%)	0	2
49	BQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	3	29
49	DQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	3	29
50	BR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	0	8
50	DR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	0	8
51	BS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	1
51	DS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	1
52	BT	136/146 (93%)	76 (56%)	32 (24%)	28 (21%)	0	2
52	DT	136/146 (93%)	75 (55%)	32 (24%)	29 (21%)	0	2
53	BU	115/118 (98%)	66 (57%)	37 (32%)	12 (10%)	1	11
53	DU	115/118 (98%)	67 (58%)	35 (30%)	13 (11%)	0	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
54	BV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	3
54	DV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	3
55	BW	111/113 (98%)	80 (72%)	21 (19%)	10 (9%)	1	13
55	DW	111/113 (98%)	81 (73%)	21 (19%)	9 (8%)	1	15
56	BX	91/96 (95%)	56 (62%)	26 (29%)	9 (10%)	1	12
56	DX	91/96 (95%)	57 (63%)	25 (28%)	9 (10%)	1	12
57	BY	105/110 (96%)	42 (40%)	36 (34%)	27 (26%)	0	1
57	DY	105/110 (96%)	43 (41%)	36 (34%)	26 (25%)	0	1
58	BZ	183/206 (89%)	108 (59%)	42 (23%)	33 (18%)	0	3
58	DZ	183/206 (89%)	114 (62%)	37 (20%)	32 (18%)	0	3
All	All	13200/13966 (94%)	8607 (65%)	2874 (22%)	1719 (13%)	0	7

All (1719) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	13	ALA
2	AB	15	VAL
2	AB	20	GLU
2	AB	95	GLN
2	AB	129	GLU
2	AB	190	THR
2	AB	195	ASP
2	AB	233	SER
2	AB	239	VAL
3	AC	12	LEU
3	AC	47	LEU
3	AC	61	ALA
3	AC	95	THR
3	AC	154	SER
3	AC	156	ARG
3	AC	207	VAL
4	AD	3	ARG
4	AD	13	ARG
4	AD	14	ARG
4	AD	18	LYS
4	AD	30	LYS
4	AD	32	ALA

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Mol	Chain	Res	Type
4	AD	44	GLY
4	AD	153	ARG
4	AD	179	GLU
5	AE	11	ILE
6	AF	39	LYS
7	AG	8	GLU
7	AG	52	GLU
7	AG	90	GLU
8	AH	105	ARG
9	AI	41	VAL
9	AI	43	ALA
9	AI	61	ALA
9	AI	89	ASN
10	AJ	33	GLN
10	AJ	36	GLY
10	AJ	55	LYS
10	AJ	56	HIS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	75	ILE
11	AK	123	LYS
11	AK	127	LYS
12	AL	18	VAL
12	AL	27	LEU
12	AL	28	LYS
12	AL	38	THR
12	AL	45	PRO
12	AL	81	SER
12	AL	91	LYS
13	AM	12	ASN
13	AM	67	GLU
13	AM	70	LEU
13	AM	83	ASP
13	AM	90	LEU
13	AM	91	ARG
13	AM	100	GLY
13	AM	118	ALA
13	AM	124	PRO
14	AN	15	LYS
14	AN	29	ARG
15	AO	24	SER
16	AP	83	GLU

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Mol	Chain	Res	Type
17	AQ	13	ASP
17	AQ	49	GLU
18	AR	37	VAL
18	AR	38	GLU
18	AR	45	SER
19	AS	10	PHE
19	AS	27	GLU
19	AS	28	LYS
19	AS	29	ARG
19	AS	47	HIS
19	AS	61	TYR
20	AT	48	LYS
20	AT	74	LYS
20	AT	99	LEU
21	AU	3	LYS
24	AY	6	GLU
24	AY	19	ALA
24	AY	21	ILE
24	AY	23	ALA
24	AY	66	THR
24	AY	68	ALA
24	AY	84	THR
24	AY	85	PRO
24	AY	88	VAL
24	AY	92	ILE
24	AY	119	GLU
24	AY	121	VAL
24	AY	129	LYS
24	AY	197	ARG
24	AY	203	GLU
24	AY	204	GLU
24	AY	205	TYR
24	AY	206	LEU
24	AY	209	ALA
24	AY	210	ARG
24	AY	251	ILE
24	AY	276	VAL
24	AY	360	ALA
24	AY	385	THR
24	AY	396	ARG
24	AY	402	ILE
24	AY	447	GLY

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Mol	Chain	Res	Type
24	AY	448	GLN
24	AY	456	GLU
24	AY	498	ILE
24	AY	519	ARG
24	AY	530	VAL
24	AY	559	PRO
24	AY	614	GLU
25	B0	74	ARG
26	B1	28	GLY
26	B1	52	ARG
26	B1	53	VAL
26	B1	85	LEU
27	B2	18	PRO
27	B2	19	VAL
27	B2	20	GLU
27	B2	47	ASN
27	B2	48	HIS
28	B3	3	ARG
29	B4	3	GLU
29	B4	26	SER
29	B4	38	LYS
29	B4	43	TYR
29	B4	50	VAL
29	B4	57	GLU
30	B5	49	CYS
30	B5	53	ALA
30	B5	56	LYS
30	B5	57	VAL
31	B6	7	ILE
31	B6	9	LEU
31	B6	18	ARG
31	B6	20	ASN
31	B6	27	LYS
31	B6	31	PRO
31	B6	44	ARG
31	B6	52	VAL
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
33	B8	49	VAL
34	B9	2	LYS
34	B9	35	ARG

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Mol	Chain	Res	Type
38	BD	19	ALA
38	BD	24	ILE
38	BD	25	THR
38	BD	27	THR
38	BD	30	GLU
38	BD	34	VAL
38	BD	35	LYS
38	BD	127	VAL
38	BD	225	ALA
38	BD	239	ARG
38	BD	246	PRO
39	BE	35	GLN
39	BE	54	GLN
39	BE	77	ILE
39	BE	88	GLY
39	BE	90	THR
39	BE	145	LYS
39	BE	185	LYS
39	BE	189	PRO
40	BF	11	VAL
40	BF	21	ALA
40	BF	64	ILE
40	BF	89	VAL
40	BF	167	ALA
41	BG	4	ASP
41	BG	6	ALA
41	BG	47	LYS
41	BG	87	PRO
41	BG	96	ARG
41	BG	102	PHE
41	BG	109	VAL
41	BG	110	ALA
41	BG	181	ARG
42	BH	13	LYS
42	BH	20	ALA
42	BH	41	MET
42	BH	46	GLU
42	BH	55	PRO
42	BH	83	TYR
42	BH	154	PRO
42	BH	155	SER
42	BH	156	ALA

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Mol	Chain	Res	Type
42	BH	157	TYR
42	BH	160	LYS
42	BH	169	VAL
42	BH	173	PRO
44	BK	51	ALA
44	BK	115	LEU
46	BN	8	GLN
46	BN	36	GLY
46	BN	46	VAL
46	BN	47	ALA
46	BN	57	ALA
46	BN	58	ASP
46	BN	63	THR
46	BN	130	HIS
46	BN	133	GLN
47	BO	35	VAL
47	BO	48	PRO
47	BO	54	GLU
47	BO	68	GLU
48	BP	12	ALA
48	BP	14	LYS
48	BP	17	LYS
48	BP	31	ALA
48	BP	47	ASP
48	BP	48	PRO
48	BP	52	GLU
48	BP	57	THR
48	BP	58	THR
48	BP	111	ARG
48	BP	135	LEU
48	BP	147	LEU
49	BQ	27	VAL
49	BQ	135	ASP
50	BR	8	ARG
50	BR	14	SER
50	BR	58	GLY
50	BR	88	ARG
50	BR	107	ASP
50	BR	117	VAL
51	BS	13	ARG
51	BS	23	ARG
51	BS	97	ARG

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Mol	Chain	Res	Type
51	BS	100	ALA
51	BS	102	ALA
51	BS	103	GLU
52	BT	5	ALA
52	BT	6	LEU
52	BT	24	PRO
52	BT	28	VAL
52	BT	30	VAL
52	BT	55	ASN
52	BT	80	SER
52	BT	91	ARG
52	BT	104	ASN
52	BT	107	ASP
52	BT	130	ALA
52	BT	132	LYS
52	BT	135	ALA
53	BU	91	ASP
53	BU	93	LYS
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	46	VAL
54	BV	67	GLY
55	BW	63	ASP
56	BX	12	VAL
56	BX	42	ALA
57	BY	7	VAL
57	BY	24	VAL
57	BY	48	ALA
57	BY	60	PHE
57	BY	74	PRO
57	BY	77	PRO
57	BY	78	ALA
57	BY	99	CYS
57	BY	100	ALA
57	BY	104	GLY
58	BZ	27	VAL
58	BZ	51	ALA
58	BZ	78	LYS
58	BZ	80	ARG
58	BZ	81	ARG
58	BZ	120	ILE

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Mol	Chain	Res	Type
58	BZ	121	HIS
58	BZ	142	SER
58	BZ	146	ILE
58	BZ	152	ALA
58	BZ	163	LEU
58	BZ	168	GLU
58	BZ	185	GLU
58	BZ	186	GLU
2	CB	12	GLU
2	CB	13	ALA
2	CB	15	VAL
2	CB	20	GLU
2	CB	95	GLN
2	CB	129	GLU
2	CB	195	ASP
2	CB	233	SER
2	CB	239	VAL
3	CC	12	LEU
3	CC	47	LEU
3	CC	61	ALA
3	CC	95	THR
3	CC	154	SER
3	CC	156	ARG
3	CC	207	VAL
4	CD	3	ARG
4	CD	13	ARG
4	CD	14	ARG
4	CD	18	LYS
4	CD	30	LYS
4	CD	32	ALA
4	CD	44	GLY
4	CD	153	ARG
4	CD	171	GLY
5	CE	11	ILE
6	CF	39	LYS
7	CG	8	GLU
7	CG	52	GLU
7	CG	90	GLU
8	CH	105	ARG
9	CI	41	VAL
9	CI	43	ALA
9	CI	61	ALA

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Mol	Chain	Res	Type
9	CI	89	ASN
10	CJ	33	GLN
10	CJ	36	GLY
10	CJ	55	LYS
10	CJ	56	HIS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	75	ILE
11	CK	123	LYS
11	CK	127	LYS
12	CL	18	VAL
12	CL	27	LEU
12	CL	28	LYS
12	CL	38	THR
12	CL	45	PRO
12	CL	81	SER
12	CL	91	LYS
13	CM	12	ASN
13	CM	67	GLU
13	CM	70	LEU
13	CM	83	ASP
13	CM	90	LEU
13	CM	91	ARG
13	CM	100	GLY
13	CM	118	ALA
13	CM	124	PRO
14	CN	15	LYS
14	CN	29	ARG
15	CO	24	SER
16	CP	83	GLU
17	CQ	13	ASP
17	CQ	49	GLU
18	CR	37	VAL
18	CR	38	GLU
18	CR	45	SER
19	CS	10	PHE
19	CS	27	GLU
19	CS	28	LYS
19	CS	29	ARG
19	CS	47	HIS
19	CS	61	TYR
20	CT	48	LYS

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Mol	Chain	Res	Type
20	CT	74	LYS
20	CT	99	LEU
21	CU	3	LYS
24	CY	21	ILE
24	CY	39	ILE
24	CY	66	THR
24	CY	67	ALA
24	CY	84	THR
24	CY	92	ILE
24	CY	104	ALA
24	CY	138	LYS
24	CY	183	MET
24	CY	209	ALA
24	CY	210	ARG
24	CY	297	GLU
24	CY	299	VAL
24	CY	448	GLN
24	CY	456	GLU
24	CY	498	ILE
24	CY	530	VAL
24	CY	674	ASP
25	D0	74	ARG
26	D1	53	VAL
27	D2	47	ASN
27	D2	48	HIS
28	D3	3	ARG
29	D4	26	SER
29	D4	38	LYS
29	D4	43	TYR
29	D4	50	VAL
29	D4	57	GLU
30	D5	49	CYS
30	D5	53	ALA
30	D5	56	LYS
30	D5	57	VAL
31	D6	7	ILE
31	D6	9	LEU
31	D6	18	ARG
31	D6	20	ASN
31	D6	27	LYS
31	D6	31	PRO
31	D6	44	ARG

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Mol	Chain	Res	Type
31	D6	52	VAL
33	D8	31	HIS
33	D8	33	ASN
33	D8	43	GLN
33	D8	49	VAL
34	D9	2	LYS
34	D9	35	ARG
38	DD	19	ALA
38	DD	24	ILE
38	DD	25	THR
38	DD	27	THR
38	DD	34	VAL
38	DD	35	LYS
38	DD	127	VAL
38	DD	225	ALA
38	DD	239	ARG
38	DD	246	PRO
39	DE	35	GLN
39	DE	54	GLN
39	DE	77	ILE
39	DE	88	GLY
39	DE	90	THR
39	DE	145	LYS
39	DE	185	LYS
39	DE	189	PRO
40	DF	11	VAL
40	DF	21	ALA
40	DF	64	ILE
40	DF	89	VAL
40	DF	167	ALA
41	DG	4	ASP
41	DG	14	GLU
41	DG	47	LYS
41	DG	48	GLU
41	DG	75	LYS
41	DG	81	LYS
41	DG	82	LEU
41	DG	87	PRO
41	DG	96	ARG
41	DG	109	VAL
41	DG	110	ALA
42	DH	13	LYS

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Mol	Chain	Res	Type
42	DH	20	ALA
42	DH	41	MET
42	DH	46	GLU
42	DH	55	PRO
42	DH	83	TYR
42	DH	154	PRO
42	DH	155	SER
42	DH	156	ALA
42	DH	157	TYR
42	DH	160	LYS
42	DH	169	VAL
42	DH	173	PRO
42	DH	176	ALA
44	DK	51	ALA
44	DK	115	LEU
46	DN	8	GLN
46	DN	36	GLY
46	DN	46	VAL
46	DN	47	ALA
46	DN	58	ASP
46	DN	63	THR
46	DN	130	HIS
46	DN	133	GLN
47	DO	35	VAL
47	DO	48	PRO
47	DO	68	GLU
48	DP	12	ALA
48	DP	14	LYS
48	DP	17	LYS
48	DP	31	ALA
48	DP	47	ASP
48	DP	48	PRO
48	DP	52	GLU
48	DP	57	THR
48	DP	58	THR
48	DP	111	ARG
48	DP	135	LEU
48	DP	147	LEU
49	DQ	27	VAL
49	DQ	135	ASP
50	DR	8	ARG
50	DR	14	SER

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Mol	Chain	Res	Type
50	DR	58	GLY
50	DR	88	ARG
50	DR	107	ASP
50	DR	117	VAL
51	DS	13	ARG
51	DS	23	ARG
51	DS	57	LYS
51	DS	97	ARG
51	DS	100	ALA
51	DS	102	ALA
51	DS	103	GLU
52	DT	5	ALA
52	DT	6	LEU
52	DT	24	PRO
52	DT	28	VAL
52	DT	30	VAL
52	DT	55	ASN
52	DT	80	SER
52	DT	91	ARG
52	DT	97	ALA
52	DT	104	ASN
52	DT	107	ASP
52	DT	130	ALA
52	DT	132	LYS
52	DT	135	ALA
53	DU	91	ASP
53	DU	93	LYS
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	46	VAL
54	DV	67	GLY
55	DW	63	ASP
56	DX	12	VAL
56	DX	42	ALA
57	DY	7	VAL
57	DY	24	VAL
57	DY	48	ALA
57	DY	60	PHE
57	DY	74	PRO
57	DY	77	PRO
57	DY	78	ALA

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Mol	Chain	Res	Type
57	DY	99	CYS
57	DY	100	ALA
57	DY	104	GLY
58	DZ	38	TYR
58	DZ	42	VAL
58	DZ	80	ARG
58	DZ	112	ARG
58	DZ	136	PHE
58	DZ	146	ILE
58	DZ	158	PRO
58	DZ	177	PRO
58	DZ	181	GLU
58	DZ	186	GLU
2	AB	18	GLY
2	AB	24	TRP
2	AB	65	GLY
2	AB	83	MET
2	AB	128	GLU
2	AB	151	GLY
2	AB	152	PHE
2	AB	153	ARG
2	AB	165	VAL
2	AB	216	SER
2	AB	221	LEU
2	AB	224	GLN
2	AB	238	LEU
3	AC	26	LYS
3	AC	96	GLY
3	AC	129	ALA
3	AC	131	ARG
3	AC	135	LYS
3	AC	139	GLN
4	AD	5	ILE
4	AD	69	GLY
4	AD	156	GLU
4	AD	171	GLY
5	AE	8	GLU
6	AF	30	LEU
6	AF	34	GLY
6	AF	43	LEU
7	AG	80	VAL
8	AH	2	LEU

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Mol	Chain	Res	Type
9	AI	34	ASN
9	AI	85	LEU
10	AJ	19	SER
10	AJ	61	GLU
10	AJ	83	GLU
10	AJ	84	GLN
10	AJ	85	LEU
11	AK	88	GLY
12	AL	46	LYS
12	AL	71	PRO
12	AL	87	GLY
12	AL	89	ARG
12	AL	121	GLY
13	AM	4	ILE
13	AM	5	ALA
13	AM	7	VAL
13	AM	55	ARG
13	AM	114	ARG
14	AN	14	PRO
16	AP	34	GLU
18	AR	41	LYS
19	AS	14	HIS
19	AS	25	LYS
19	AS	26	GLY
19	AS	62	ILE
19	AS	63	THR
19	AS	73	GLU
20	AT	49	ALA
20	AT	62	LEU
20	AT	69	GLY
24	AY	10	LYS
24	AY	39	ILE
24	AY	112	GLN
24	AY	114	VAL
24	AY	183	MET
24	AY	196	ILE
24	AY	299	VAL
24	AY	347	GLY
24	AY	371	ALA
24	AY	380	LEU
24	AY	386	GLY
24	AY	399	LEU

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Mol	Chain	Res	Type
24	AY	416	LYS
24	AY	418	LYS
24	AY	471	LYS
24	AY	505	GLY
24	AY	657	THR
24	AY	678	GLU
25	B0	20	ARG
26	B1	69	LYS
26	B1	84	GLY
27	B2	21	LEU
27	B2	26	ARG
27	B2	49	LYS
28	B3	29	ARG
29	B4	5	ILE
29	B4	9	LEU
29	B4	20	ASN
29	B4	44	THR
29	B4	48	ARG
29	B4	51	ASP
30	B5	35	GLU
30	B5	36	CYS
30	B5	38	ALA
30	B5	58	LEU
30	B5	59	GLU
31	B6	16	CYS
31	B6	19	ARG
31	B6	23	THR
31	B6	28	ARG
31	B6	43	CYS
32	B7	17	GLY
33	B8	34	TRP
33	B8	37	SER
33	B8	40	GLU
34	B9	11	CYS
34	B9	12	ASP
37	BC	12	LEU
37	BC	30	VAL
37	BC	38	PHE
38	BD	3	VAL
38	BD	12	SER
38	BD	32	SER
38	BD	36	PRO

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Mol	Chain	Res	Type
38	BD	42	GLY
38	BD	125	ILE
38	BD	197	GLY
38	BD	198	ASN
38	BD	234	GLY
38	BD	260	ARG
38	BD	267	SER
38	BD	268	ARG
39	BE	2	LYS
39	BE	46	ALA
39	BE	53	PRO
39	BE	57	LYS
39	BE	66	HIS
39	BE	69	LYS
39	BE	71	GLY
39	BE	72	VAL
39	BE	118	LYS
39	BE	134	ILE
39	BE	144	ARG
39	BE	186	GLY
40	BF	5	ALA
40	BF	10	PRO
40	BF	84	VAL
40	BF	127	GLU
40	BF	169	ASN
40	BF	181	LEU
40	BF	206	ILE
40	BF	207	GLY
41	BG	14	GLU
41	BG	75	LYS
41	BG	81	LYS
41	BG	82	LEU
41	BG	166	ASP
42	BH	21	PRO
42	BH	42	ARG
42	BH	69	ARG
42	BH	138	LYS
42	BH	174	GLY
42	BH	176	ALA
44	BK	10	LEU
44	BK	42	ASN
44	BK	48	MET

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Mol	Chain	Res	Type
44	BK	62	ASP
44	BK	82	ALA
44	BK	87	GLY
46	BN	77	GLY
46	BN	125	GLY
46	BN	129	PRO
47	BO	5	GLN
47	BO	29	ASN
47	BO	89	ASN
47	BO	100	GLY
48	BP	34	GLY
48	BP	98	GLU
49	BQ	52	VAL
49	BQ	62	GLY
49	BQ	71	ASP
50	BR	45	ARG
50	BR	83	ILE
51	BS	37	ALA
51	BS	57	LYS
51	BS	59	LYS
51	BS	85	VAL
51	BS	94	TYR
51	BS	104	GLY
51	BS	107	GLU
52	BT	11	GLU
52	BT	12	SER
52	BT	58	ASN
52	BT	88	ILE
52	BT	97	ALA
52	BT	133	GLU
53	BU	11	ARG
53	BU	27	LEU
53	BU	32	PHE
53	BU	67	ALA
54	BV	2	PHE
54	BV	26	ASP
54	BV	31	ALA
54	BV	47	VAL
54	BV	53	GLU
54	BV	55	ALA
54	BV	78	LYS
55	BW	6	ILE

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Mol	Chain	Res	Type
55	BW	11	ARG
56	BX	87	GLN
57	BY	17	SER
57	BY	38	ILE
57	BY	39	VAL
57	BY	41	GLY
57	BY	59	GLY
57	BY	81	LYS
57	BY	98	VAL
57	BY	107	ASP
58	BZ	5	LEU
58	BZ	42	VAL
58	BZ	85	HIS
58	BZ	112	ARG
58	BZ	148	ASP
58	BZ	158	PRO
58	BZ	180	VAL
2	CB	18	GLY
2	CB	24	TRP
2	CB	65	GLY
2	CB	83	MET
2	CB	128	GLU
2	CB	151	GLY
2	CB	152	PHE
2	CB	153	ARG
2	CB	165	VAL
2	CB	190	THR
2	CB	216	SER
2	CB	221	LEU
2	CB	224	GLN
2	CB	236	TYR
2	CB	238	LEU
3	CC	26	LYS
3	CC	96	GLY
3	CC	129	ALA
3	CC	131	ARG
3	CC	135	LYS
3	CC	139	GLN
4	CD	5	ILE
4	CD	31	CYS
4	CD	69	GLY
4	CD	156	GLU

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Mol	Chain	Res	Type
4	CD	179	GLU
5	CE	8	GLU
6	CF	30	LEU
6	CF	34	GLY
6	CF	43	LEU
7	CG	41	ARG
7	CG	80	VAL
8	CH	2	LEU
9	CI	34	ASN
10	CJ	19	SER
10	CJ	61	GLU
10	CJ	84	GLN
10	CJ	85	LEU
11	CK	88	GLY
12	CL	46	LYS
12	CL	71	PRO
12	CL	72	GLY
12	CL	87	GLY
12	CL	89	ARG
12	CL	121	GLY
13	CM	4	ILE
13	CM	5	ALA
13	CM	7	VAL
13	CM	55	ARG
13	CM	114	ARG
13	CM	121	LYS
16	CP	34	GLU
16	CP	76	GLN
17	CQ	95	TYR
18	CR	41	LYS
19	CS	14	HIS
19	CS	25	LYS
19	CS	26	GLY
19	CS	62	ILE
19	CS	63	THR
19	CS	73	GLU
20	CT	49	ALA
20	CT	62	LEU
20	CT	69	GLY
24	CY	34	TYR
24	CY	86	GLY
24	CY	112	GLN

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Mol	Chain	Res	Type
24	CY	127	LYS
24	CY	129	LYS
24	CY	143	GLY
24	CY	144	ALA
24	CY	172	ASP
24	CY	203	GLU
24	CY	211	GLU
24	CY	300	GLU
24	CY	366	VAL
24	CY	416	LYS
24	CY	505	GLY
24	CY	531	GLY
24	CY	537	GLU
24	CY	547	GLU
24	CY	551	GLN
24	CY	595	GLN
24	CY	664	GLN
24	CY	673	PHE
24	CY	681	LYS
25	D0	20	ARG
26	D1	22	GLY
26	D1	30	VAL
26	D1	83	GLU
26	D1	84	GLY
26	D1	85	LEU
26	D1	94	LEU
26	D1	95	LEU
27	D2	5	GLU
27	D2	49	LYS
28	D3	29	ARG
29	D4	3	GLU
29	D4	5	ILE
29	D4	9	LEU
29	D4	20	ASN
29	D4	44	THR
29	D4	48	ARG
29	D4	51	ASP
30	D5	35	GLU
30	D5	36	CYS
30	D5	38	ALA
30	D5	58	LEU
30	D5	59	GLU

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Mol	Chain	Res	Type
31	D6	16	CYS
31	D6	19	ARG
31	D6	23	THR
31	D6	28	ARG
32	D7	17	GLY
33	D8	34	TRP
33	D8	37	SER
33	D8	40	GLU
34	D9	11	CYS
34	D9	12	ASP
37	DC	12	LEU
37	DC	30	VAL
37	DC	38	PHE
38	DD	3	VAL
38	DD	12	SER
38	DD	30	GLU
38	DD	32	SER
38	DD	36	PRO
38	DD	41	GLY
38	DD	42	GLY
38	DD	125	ILE
38	DD	197	GLY
38	DD	198	ASN
38	DD	236	GLY
38	DD	267	SER
38	DD	268	ARG
39	DE	2	LYS
39	DE	46	ALA
39	DE	53	PRO
39	DE	57	LYS
39	DE	66	HIS
39	DE	69	LYS
39	DE	71	GLY
39	DE	72	VAL
39	DE	118	LYS
39	DE	129	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	186	GLY
40	DF	10	PRO
40	DF	82	ILE
40	DF	84	VAL

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Mol	Chain	Res	Type
40	DF	127	GLU
40	DF	169	ASN
40	DF	181	LEU
40	DF	206	ILE
41	DG	3	LEU
41	DG	76	SER
41	DG	104	GLU
41	DG	124	SER
41	DG	181	ARG
42	DH	21	PRO
42	DH	42	ARG
42	DH	69	ARG
42	DH	138	LYS
44	DK	10	LEU
44	DK	42	ASN
44	DK	48	MET
44	DK	62	ASP
44	DK	82	ALA
44	DK	87	GLY
46	DN	57	ALA
46	DN	77	GLY
46	DN	125	GLY
46	DN	129	PRO
47	DO	5	GLN
47	DO	29	ASN
47	DO	54	GLU
47	DO	89	ASN
47	DO	120	GLU
48	DP	34	GLY
48	DP	98	GLU
49	DQ	52	VAL
49	DQ	62	GLY
49	DQ	71	ASP
50	DR	45	ARG
51	DS	37	ALA
51	DS	59	LYS
51	DS	85	VAL
51	DS	94	TYR
51	DS	104	GLY
51	DS	107	GLU
52	DT	12	SER
52	DT	41	ARG

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Mol	Chain	Res	Type
52	DT	88	ILE
52	DT	133	GLU
53	DU	11	ARG
53	DU	27	LEU
53	DU	32	PHE
53	DU	67	ALA
54	DV	2	PHE
54	DV	26	ASP
54	DV	31	ALA
54	DV	47	VAL
54	DV	53	GLU
54	DV	55	ALA
55	DW	6	ILE
55	DW	11	ARG
56	DX	87	GLN
57	DY	17	SER
57	DY	38	ILE
57	DY	39	VAL
57	DY	41	GLY
57	DY	59	GLY
57	DY	81	LYS
57	DY	92	ASN
57	DY	98	VAL
57	DY	107	ASP
58	DZ	17	ALA
58	DZ	18	LEU
58	DZ	37	VAL
58	DZ	40	ASP
58	DZ	142	SER
58	DZ	148	ASP
58	DZ	159	PRO
2	AB	78	GLN
2	AB	79	ASP
2	AB	236	TYR
3	AC	4	LYS
3	AC	168	ALA
4	AD	31	CYS
4	AD	40	PRO
5	AE	140	ARG
5	AE	154	GLY
7	AG	14	PRO
7	AG	41	ARG

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Mol	Chain	Res	Type
7	AG	62	PHE
9	AI	11	LYS
9	AI	44	VAL
9	AI	95	LYS
12	AL	47	LYS
12	AL	51	ALA
12	AL	72	GLY
12	AL	92	ASP
13	AM	11	ARG
13	AM	121	LYS
14	AN	16	PHE
15	AO	14	GLU
15	AO	77	ARG
16	AP	13	HIS
16	AP	76	GLN
17	AQ	95	TYR
20	AT	97	ALA
24	AY	25	LYS
24	AY	34	TYR
24	AY	42	ILE
24	AY	89	ASP
24	AY	120	THR
24	AY	144	ALA
24	AY	148	LEU
24	AY	283	PRO
24	AY	393	ASP
24	AY	458	HIS
24	AY	469	GLU
24	AY	532	GLY
24	AY	535	PRO
24	AY	636	PRO
24	AY	680	PRO
26	B1	95	LEU
27	B2	43	GLN
27	B2	58	ALA
27	B2	68	ARG
28	B3	32	GLN
30	B5	37	LYS
33	B8	35	GLN
33	B8	57	ARG
37	BC	17	PRO
37	BC	127	LYS

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Mol	Chain	Res	Type
38	BD	28	GLU
38	BD	41	GLY
38	BD	74	GLY
38	BD	129	ASN
38	BD	134	ARG
38	BD	236	GLY
38	BD	242	ARG
39	BE	83	ASP
39	BE	86	PRO
39	BE	117	MET
39	BE	129	HIS
40	BF	3	GLU
40	BF	82	ILE
40	BF	108	LYS
40	BF	115	ALA
40	BF	122	LYS
40	BF	168	ARG
40	BF	195	ASP
41	BG	22	ARG
41	BG	43	LEU
41	BG	116	ASP
41	BG	163	ALA
42	BH	18	GLU
42	BH	47	GLU
42	BH	85	LYS
42	BH	98	LEU
42	BH	126	PRO
42	BH	158	HIS
42	BH	165	ALA
42	BH	170	ARG
42	BH	171	LEU
46	BN	40	PRO
46	BN	59	LYS
46	BN	110	GLY
46	BN	136	GLU
47	BO	120	GLU
48	BP	43	GLY
48	BP	49	ARG
48	BP	123	LEU
50	BR	12	ARG
51	BS	71	ARG
51	BS	90	GLY

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Mol	Chain	Res	Type
51	BS	99	LYS
52	BT	3	ARG
52	BT	41	ARG
52	BT	103	ARG
53	BU	83	LEU
53	BU	114	LYS
54	BV	3	ALA
54	BV	50	PRO
55	BW	18	ARG
56	BX	19	ALA
56	BX	22	ALA
56	BX	91	ALA
57	BY	46	LYS
57	BY	92	ASN
58	BZ	30	ASN
58	BZ	83	PRO
58	BZ	122	ARG
58	BZ	128	VAL
58	BZ	166	SER
58	BZ	170	THR
2	CB	78	GLN
2	CB	79	ASP
3	CC	4	LYS
3	CC	15	THR
3	CC	168	ALA
4	CD	40	PRO
5	CE	154	GLY
6	CF	29	ALA
7	CG	14	PRO
7	CG	62	PHE
9	CI	11	LYS
9	CI	44	VAL
9	CI	85	LEU
9	CI	95	LYS
10	CJ	83	GLU
12	CL	47	LYS
12	CL	51	ALA
12	CL	92	ASP
12	CL	116	SER
13	CM	11	ARG
14	CN	14	PRO
14	CN	16	PHE

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Mol	Chain	Res	Type
15	CO	14	GLU
15	CO	77	ARG
16	CP	13	HIS
19	CS	5	LEU
20	CT	97	ALA
24	CY	87	HIS
24	CY	91	THR
24	CY	123	ARG
24	CY	192	LEU
24	CY	239	GLU
24	CY	303	PRO
24	CY	380	LEU
24	CY	400	GLU
24	CY	421	GLN
24	CY	458	HIS
24	CY	502	GLY
24	CY	504	ARG
24	CY	519	ARG
24	CY	620	VAL
24	CY	680	PRO
27	D2	4	SER
27	D2	41	ILE
27	D2	68	ARG
27	D2	71	ASN
28	D3	32	GLN
30	D5	37	LYS
31	D6	43	CYS
33	D8	35	GLN
33	D8	57	ARG
37	DC	17	PRO
37	DC	82	GLU
37	DC	127	LYS
38	DD	28	GLU
38	DD	74	GLY
38	DD	129	ASN
38	DD	134	ARG
38	DD	234	GLY
38	DD	242	ARG
38	DD	260	ARG
39	DE	83	ASP
39	DE	86	PRO
40	DF	3	GLU

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Mol	Chain	Res	Type
40	DF	5	ALA
40	DF	108	LYS
40	DF	115	ALA
40	DF	126	VAL
40	DF	168	ARG
40	DF	195	ASP
40	DF	207	GLY
41	DG	21	ARG
41	DG	115	ARG
41	DG	117	PHE
41	DG	169	ALA
42	DH	18	GLU
42	DH	47	GLU
42	DH	85	LYS
42	DH	98	LEU
42	DH	126	PRO
42	DH	158	HIS
42	DH	165	ALA
42	DH	170	ARG
42	DH	171	LEU
42	DH	174	GLY
46	DN	40	PRO
46	DN	59	LYS
46	DN	110	GLY
46	DN	136	GLU
47	DO	100	GLY
48	DP	43	GLY
48	DP	49	ARG
48	DP	123	LEU
50	DR	12	ARG
50	DR	83	ILE
51	DS	71	ARG
51	DS	90	GLY
51	DS	99	LYS
52	DT	11	GLU
52	DT	58	ASN
53	DU	66	ASN
53	DU	83	LEU
53	DU	110	VAL
53	DU	114	LYS
54	DV	3	ALA
54	DV	50	PRO

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Mol	Chain	Res	Type
54	DV	78	LYS
55	DW	18	ARG
56	DX	6	ASP
56	DX	19	ALA
56	DX	22	ALA
56	DX	91	ALA
57	DY	46	LYS
57	DY	75	ILE
58	DZ	49	ARG
58	DZ	81	ARG
58	DZ	108	PRO
58	DZ	168	GLU
2	AB	29	ALA
2	AB	63	MET
2	AB	64	ARG
2	AB	97	TRP
2	AB	130	ARG
3	AC	15	THR
3	AC	44	GLU
3	AC	63	ASN
3	AC	65	ALA
4	AD	71	SER
5	AE	37	ARG
5	AE	136	MET
5	AE	138	ALA
6	AF	29	ALA
10	AJ	23	ILE
10	AJ	32	ALA
12	AL	19	ARG
12	AL	116	SER
13	AM	36	LYS
13	AM	113	PRO
15	AO	26	GLU
15	AO	80	ALA
15	AO	84	LYS
17	AQ	89	LEU
19	AS	5	LEU
19	AS	42	PRO
19	AS	50	ALA
20	AT	85	MET
20	AT	96	GLY
20	AT	98	PRO

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Mol	Chain	Res	Type
21	AU	25	LYS
24	AY	230	LYS
24	AY	406	GLU
24	AY	444	PRO
24	AY	457	LEU
24	AY	502	GLY
24	AY	506	GLN
24	AY	549	ALA
26	B1	54	ALA
27	B2	51	ARG
27	B2	70	GLN
31	B6	41	PRO
33	B8	3	LYS
34	B9	30	PRO
37	BC	82	GLU
37	BC	168	LYS
37	BC	227	PRO
39	BE	17	ASP
39	BE	64	LYS
39	BE	70	ALA
39	BE	82	ARG
40	BF	62	ARG
40	BF	126	VAL
40	BF	134	GLY
40	BF	180	GLY
41	BG	30	GLU
41	BG	103	LEU
41	BG	126	ASP
44	BK	116	ASN
48	BP	89	ALA
48	BP	106	LEU
48	BP	107	LYS
48	BP	108	LYS
48	BP	119	GLU
49	BQ	139	GLU
50	BR	31	HIS
50	BR	61	HIS
50	BR	86	ARG
51	BS	15	ARG
51	BS	89	ARG
51	BS	105	ALA
52	BT	26	ASP

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Mol	Chain	Res	Type
53	BU	66	ASN
53	BU	110	VAL
55	BW	111	HIS
56	BX	6	ASP
57	BY	67	LEU
57	BY	75	ILE
58	BZ	71	VAL
58	BZ	159	PRO
58	BZ	165	VAL
2	CB	29	ALA
2	CB	63	MET
2	CB	64	ARG
2	CB	97	TRP
2	CB	130	ARG
2	CB	212	GLN
3	CC	65	ALA
4	CD	149	ALA
5	CE	37	ARG
5	CE	136	MET
5	CE	138	ALA
5	CE	140	ARG
7	CG	131	LYS
10	CJ	23	ILE
10	CJ	30	SER
10	CJ	32	ALA
13	CM	36	LYS
13	CM	113	PRO
15	CO	25	THR
15	CO	26	GLU
15	CO	80	ALA
15	CO	84	LYS
16	CP	54	GLU
18	CR	87	ARG
19	CS	30	LEU
19	CS	42	PRO
19	CS	50	ALA
20	CT	34	LYS
20	CT	78	ALA
20	CT	96	GLY
20	CT	98	PRO
21	CU	25	LYS
24	CY	88	VAL

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Mol	Chain	Res	Type
24	CY	137	ASN
24	CY	174	PHE
24	CY	227	ILE
24	CY	371	ALA
24	CY	419	ALA
24	CY	427	ALA
24	CY	470	PHE
24	CY	559	PRO
25	D0	42	GLY
26	D1	24	ALA
27	D2	18	PRO
28	D3	38	GLU
31	D6	41	PRO
33	D8	3	LYS
33	D8	61	LEU
37	DC	168	LYS
37	DC	227	PRO
39	DE	17	ASP
39	DE	45	THR
39	DE	64	LYS
39	DE	70	ALA
39	DE	117	MET
40	DF	90	PHE
40	DF	122	LYS
40	DF	134	GLY
41	DG	97	ASP
41	DG	140	ILE
42	DH	81	GLU
44	DK	116	ASN
48	DP	89	ALA
48	DP	106	LEU
48	DP	107	LYS
49	DQ	139	GLU
50	DR	31	HIS
50	DR	61	HIS
51	DS	15	ARG
51	DS	89	ARG
51	DS	105	ALA
52	DT	3	ARG
52	DT	9	LEU
52	DT	103	ARG
55	DW	99	ARG

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Mol	Chain	Res	Type
57	DY	67	LEU
58	DZ	41	LEU
58	DZ	120	ILE
58	DZ	165	VAL
58	DZ	169	GLU
2	AB	9	GLU
2	AB	84	GLU
2	AB	212	GLN
3	AC	35	GLU
3	AC	179	ARG
4	AD	149	ALA
4	AD	159	ARG
4	AD	186	LEU
6	AF	21	LEU
8	AH	121	ASP
9	AI	94	ALA
9	AI	106	ALA
10	AJ	30	SER
10	AJ	91	PRO
11	AK	34	ASP
13	AM	10	PRO
15	AO	25	THR
16	AP	54	GLU
18	AR	87	ARG
19	AS	30	LEU
19	AS	54	GLY
19	AS	59	PRO
20	AT	34	LYS
20	AT	44	ALA
20	AT	78	ALA
20	AT	104	LEU
21	AU	6	ARG
24	AY	22	ASP
24	AY	65	ILE
24	AY	123	ARG
24	AY	153	MET
24	AY	303	PRO
24	AY	361	ASN
24	AY	415	PRO
24	AY	577	SER
24	AY	598	ASP
24	AY	617	MET

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Mol	Chain	Res	Type
24	AY	652	MET
24	AY	688	ILE
26	B1	30	VAL
26	B1	31	GLY
27	B2	14	ARG
28	B3	38	GLU
29	B4	2	LYS
29	B4	40	HIS
30	B5	4	HIS
33	B8	48	PHE
33	B8	61	LEU
38	BD	10	THR
38	BD	273	ARG
39	BE	45	THR
39	BE	187	ALA
40	BF	90	PHE
41	BG	106	LEU
42	BH	14	GLY
42	BH	81	GLU
42	BH	93	GLY
46	BN	127	ASP
46	BN	134	ARG
48	BP	23	PRO
48	BP	33	ARG
48	BP	83	VAL
50	BR	42	LYS
50	BR	102	GLU
52	BT	9	LEU
52	BT	17	THR
53	BU	46	ALA
54	BV	22	VAL
55	BW	93	ALA
55	BW	99	ARG
56	BX	11	PRO
56	BX	13	LEU
57	BY	37	VAL
58	BZ	46	LYS
2	CB	9	GLU
2	CB	84	GLU
3	CC	35	GLU
3	CC	44	GLU
4	CD	159	ARG

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Mol	Chain	Res	Type
4	CD	186	LEU
5	CE	118	ILE
6	CF	21	LEU
7	CG	42	ILE
8	CH	121	ASP
9	CI	94	ALA
10	CJ	91	PRO
11	CK	34	ASP
11	CK	57	THR
11	CK	95	ILE
12	CL	19	ARG
13	CM	10	PRO
17	CQ	25	ARG
19	CS	54	GLY
19	CS	59	PRO
20	CT	85	MET
20	CT	104	LEU
21	CU	6	ARG
24	CY	36	THR
24	CY	205	TYR
24	CY	206	LEU
24	CY	262	SER
24	CY	283	PRO
24	CY	315	LYS
24	CY	405	PRO
26	D1	63	ALA
29	D4	2	LYS
29	D4	40	HIS
30	D5	4	HIS
33	D8	48	PHE
34	D9	30	PRO
38	DD	10	THR
38	DD	273	ARG
39	DE	187	ALA
40	DF	62	ARG
40	DF	180	GLY
41	DG	12	TYR
41	DG	42	GLY
42	DH	111	HIS
46	DN	127	ASP
46	DN	134	ARG
48	DP	23	PRO

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Mol	Chain	Res	Type
48	DP	33	ARG
48	DP	83	VAL
48	DP	108	LYS
48	DP	119	GLU
50	DR	86	ARG
50	DR	102	GLU
52	DT	17	THR
52	DT	26	ASP
54	DV	22	VAL
55	DW	111	HIS
56	DX	11	PRO
56	DX	13	LEU
57	DY	37	VAL
58	DZ	110	GLY
2	AB	157	ARG
3	AC	165	THR
5	AE	146	ALA
9	AI	127	LYS
11	AK	57	THR
11	AK	95	ILE
13	AM	21	TYR
13	AM	106	ASN
17	AQ	25	ARG
24	AY	24	GLY
24	AY	75	LYS
24	AY	408	VAL
24	AY	591	LYS
25	B0	13	GLY
25	B0	42	GLY
27	B2	44	LEU
28	B3	45	GLY
31	B6	36	LEU
39	BE	52	LEU
39	BE	73	GLU
39	BE	130	GLY
40	BF	14	PRO
40	BF	66	PRO
42	BH	48	GLY
42	BH	92	ILE
42	BH	111	HIS
44	BK	21	PRO
44	BK	73	PRO

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Mol	Chain	Res	Type
46	BN	65	LYS
46	BN	81	GLY
47	BO	18	LYS
48	BP	141	ALA
52	BT	81	PRO
55	BW	14	PRO
55	BW	25	ARG
2	CB	157	ARG
2	CB	204	ASN
3	CC	160	ALA
3	CC	165	THR
4	CD	71	SER
4	CD	88	VAL
8	CH	135	CYS
12	CL	106	ASP
13	CM	116	THR
20	CT	44	ALA
21	CU	9	ARG
24	CY	408	VAL
24	CY	671	MET
25	D0	13	GLY
26	D1	52	ARG
26	D1	73	LEU
39	DE	73	GLU
39	DE	130	GLY
40	DF	2	LYS
40	DF	14	PRO
40	DF	66	PRO
40	DF	85	GLY
41	DG	22	ARG
42	DH	14	GLY
42	DH	45	VAL
42	DH	48	GLY
42	DH	92	ILE
42	DH	93	GLY
44	DK	21	PRO
44	DK	73	PRO
46	DN	65	LYS
46	DN	81	GLY
47	DO	18	LYS
48	DP	67	MET
48	DP	141	ALA

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Mol	Chain	Res	Type
49	DQ	30	GLY
50	DR	42	LYS
52	DT	127	ALA
53	DU	46	ALA
55	DW	14	PRO
55	DW	25	ARG
58	DZ	12	GLY
58	DZ	65	GLN
58	DZ	121	HIS
4	AD	88	VAL
5	AE	118	ILE
7	AG	42	ILE
9	AI	74	ILE
15	AO	75	PRO
26	B1	87	PRO
29	B4	28	LYS
40	BF	177	ALA
42	BH	45	VAL
42	BH	76	VAL
46	BN	5	VAL
49	BQ	30	GLY
52	BT	92	GLY
54	BV	54	GLY
55	BW	59	VAL
57	BY	3	VAL
9	CI	74	ILE
16	CP	2	VAL
19	CS	51	VAL
24	CY	479	PRO
24	CY	670	VAL
28	D3	45	GLY
29	D4	28	LYS
34	D9	21	GLY
39	DE	52	LEU
42	DH	76	VAL
52	DT	81	PRO
55	DW	59	VAL
2	AB	26	PRO
2	AB	131	PRO
2	AB	232	PRO
6	AF	51	PRO
7	AG	9	VAL

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Mol	Chain	Res	Type
9	AI	80	GLY
16	AP	2	VAL
19	AS	51	VAL
26	B1	36	GLY
37	BC	160	GLY
38	BD	228	PRO
40	BF	25	PRO
40	BF	85	GLY
42	BH	39	PRO
48	BP	146	VAL
53	BU	90	VAL
54	BV	36	PRO
57	BY	31	LEU
58	BZ	134	PRO
2	CB	232	PRO
6	CF	51	PRO
7	CG	9	VAL
7	CG	82	GLY
15	CO	75	PRO
24	CY	554	PRO
37	DC	160	GLY
40	DF	25	PRO
40	DF	177	ALA
46	DN	5	VAL
48	DP	146	VAL
53	DU	90	VAL
54	DV	36	PRO
54	DV	54	GLY
57	DY	3	VAL
57	DY	31	LEU
2	AB	230	VAL
7	AG	82	GLY
16	AP	62	VAL
20	AT	100	ILE
27	B2	41	ILE
37	BC	68	GLY
41	BG	129	GLY
51	BS	22	GLY
57	BY	30	VAL
58	BZ	133	ILE
2	CB	131	PRO
2	CB	230	VAL

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Mol	Chain	Res	Type
9	CI	80	GLY
16	CP	62	VAL
20	CT	100	ILE
24	CY	394	ALA
24	CY	600	VAL
38	DD	228	PRO
39	DE	34	VAL
42	DH	39	PRO
51	DS	22	GLY
52	DT	92	GLY
53	DU	9	VAL
2	AB	127	ILE
2	AB	194	PRO
4	AD	92	VAL
4	AD	180	GLY
19	AS	9	VAL
26	B1	86	SER
37	BC	136	GLY
39	BE	14	ILE
39	BE	34	VAL
41	BG	24	GLY
42	BH	107	VAL
52	BT	15	VAL
54	BV	51	VAL
2	CB	127	ILE
2	CB	194	PRO
4	CD	92	VAL
14	CN	55	GLY
15	CO	19	PRO
24	CY	532	GLY
37	DC	68	GLY
37	DC	101	ILE
37	DC	107	GLY
37	DC	136	GLY
39	DE	75	VAL
51	DS	91	PRO
57	DY	30	VAL
58	DZ	166	SER
24	AY	333	GLY
37	BC	107	GLY
39	BE	75	VAL
42	BH	52	VAL

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Mol	Chain	Res	Type
51	BS	91	PRO
57	BY	27	VAL
2	CB	26	PRO
24	CY	293	THR
30	D5	50	GLY
38	DD	11	PRO
39	DE	14	ILE
41	DG	20	ILE
42	DH	52	VAL
42	DH	107	VAL
52	DT	15	VAL
54	DV	51	VAL
58	DZ	14	LYS
58	DZ	134	PRO
38	BD	245	PRO
38	DD	245	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	179 (89%)	23 (11%)	7	36
2	CB	202/220 (92%)	179 (89%)	23 (11%)	7	36
3	AC	160/188 (85%)	142 (89%)	18 (11%)	7	37
3	CC	160/188 (85%)	142 (89%)	18 (11%)	7	37
4	AD	180/181 (99%)	160 (89%)	20 (11%)	8	38
4	CD	180/181 (99%)	160 (89%)	20 (11%)	8	38
5	AE	115/123 (94%)	100 (87%)	15 (13%)	5	30
5	CE	115/123 (94%)	100 (87%)	15 (13%)	5	30
6	AF	90/90 (100%)	83 (92%)	7 (8%)	16	55
6	CF	90/90 (100%)	83 (92%)	7 (8%)	16	55
7	AG	126/127 (99%)	117 (93%)	9 (7%)	18	59

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	CG	126/127 (99%)	117 (93%)	9 (7%)	18	59
8	AH	119/119 (100%)	110 (92%)	9 (8%)	16	56
8	CH	119/119 (100%)	112 (94%)	7 (6%)	24	66
9	AI	98/99 (99%)	90 (92%)	8 (8%)	14	53
9	CI	98/99 (99%)	90 (92%)	8 (8%)	14	53
10	AJ	88/92 (96%)	77 (88%)	11 (12%)	6	32
10	CJ	88/92 (96%)	77 (88%)	11 (12%)	6	32
11	AK	90/99 (91%)	84 (93%)	6 (7%)	20	62
11	CK	90/99 (91%)	84 (93%)	6 (7%)	20	62
12	AL	104/109 (95%)	94 (90%)	10 (10%)	10	45
12	CL	104/109 (95%)	93 (89%)	11 (11%)	8	40
13	AM	99/101 (98%)	91 (92%)	8 (8%)	15	54
13	CM	99/101 (98%)	91 (92%)	8 (8%)	15	54
14	AN	49/50 (98%)	43 (88%)	6 (12%)	6	32
14	CN	49/50 (98%)	43 (88%)	6 (12%)	6	32
15	AO	79/80 (99%)	71 (90%)	8 (10%)	9	43
15	CO	79/80 (99%)	71 (90%)	8 (10%)	9	43
16	AP	72/74 (97%)	67 (93%)	5 (7%)	19	60
16	CP	72/74 (97%)	67 (93%)	5 (7%)	19	60
17	AQ	94/97 (97%)	87 (93%)	7 (7%)	17	57
17	CQ	94/97 (97%)	87 (93%)	7 (7%)	17	57
18	AR	61/77 (79%)	59 (97%)	2 (3%)	45	80
18	CR	61/77 (79%)	59 (97%)	2 (3%)	45	80
19	AS	69/80 (86%)	59 (86%)	10 (14%)	4	26
19	CS	69/80 (86%)	59 (86%)	10 (14%)	4	26
20	AT	76/82 (93%)	69 (91%)	7 (9%)	11	48
20	CT	76/82 (93%)	69 (91%)	7 (9%)	11	48
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
24	AY	563/582 (97%)	489 (87%)	74 (13%)	5	30
24	CY	563/582 (97%)	495 (88%)	68 (12%)	6	33

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	B0	66/67 (98%)	57 (86%)	9 (14%)	5	29
25	D0	66/67 (98%)	57 (86%)	9 (14%)	5	29
26	B1	78/83 (94%)	65 (83%)	13 (17%)	3	19
26	D1	78/83 (94%)	70 (90%)	8 (10%)	9	42
27	B2	66/67 (98%)	59 (89%)	7 (11%)	8	40
27	D2	66/67 (98%)	58 (88%)	8 (12%)	6	33
28	B3	51/52 (98%)	47 (92%)	4 (8%)	16	55
28	D3	51/52 (98%)	47 (92%)	4 (8%)	16	55
29	B4	51/63 (81%)	38 (74%)	13 (26%)	1	6
29	D4	51/63 (81%)	37 (72%)	14 (28%)	0	4
30	B5	51/52 (98%)	45 (88%)	6 (12%)	6	34
30	D5	51/52 (98%)	45 (88%)	6 (12%)	6	34
31	B6	49/52 (94%)	39 (80%)	10 (20%)	1	11
31	D6	49/52 (94%)	38 (78%)	11 (22%)	1	8
32	B7	41/42 (98%)	36 (88%)	5 (12%)	6	32
32	D7	41/42 (98%)	36 (88%)	5 (12%)	6	32
33	B8	53/55 (96%)	44 (83%)	9 (17%)	2	18
33	D8	53/55 (96%)	43 (81%)	10 (19%)	2	13
34	B9	34/34 (100%)	30 (88%)	4 (12%)	6	34
34	D9	34/34 (100%)	29 (85%)	5 (15%)	4	25
37	BC	180/181 (99%)	170 (94%)	10 (6%)	26	68
37	DC	180/181 (99%)	169 (94%)	11 (6%)	23	65
38	BD	217/218 (100%)	177 (82%)	40 (18%)	2	14
38	DD	217/218 (100%)	178 (82%)	39 (18%)	2	15
39	BE	165/166 (99%)	139 (84%)	26 (16%)	3	22
39	DE	165/166 (99%)	140 (85%)	25 (15%)	3	24
40	BF	165/166 (99%)	153 (93%)	12 (7%)	17	58
40	DF	165/166 (99%)	153 (93%)	12 (7%)	17	58
41	BG	155/156 (99%)	131 (84%)	24 (16%)	3	23
41	DG	155/156 (99%)	126 (81%)	29 (19%)	2	13
42	BH	136/148 (92%)	126 (93%)	10 (7%)	17	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	DH	136/148 (92%)	126 (93%)	10 (7%)	17	57
44	BK	104/111 (94%)	89 (86%)	15 (14%)	4	26
44	DK	104/111 (94%)	90 (86%)	14 (14%)	5	29
46	BN	117/119 (98%)	103 (88%)	14 (12%)	6	33
46	DN	117/119 (98%)	102 (87%)	15 (13%)	5	31
47	BO	100/100 (100%)	92 (92%)	8 (8%)	15	54
47	DO	100/100 (100%)	92 (92%)	8 (8%)	15	54
48	BP	112/116 (97%)	91 (81%)	21 (19%)	2	13
48	DP	112/116 (97%)	91 (81%)	21 (19%)	2	13
49	BQ	111/111 (100%)	95 (86%)	16 (14%)	4	26
49	DQ	111/111 (100%)	97 (87%)	14 (13%)	5	31
50	BR	100/101 (99%)	89 (89%)	11 (11%)	8	39
50	DR	100/101 (99%)	88 (88%)	12 (12%)	6	33
51	BS	77/88 (88%)	68 (88%)	9 (12%)	7	35
51	DS	77/88 (88%)	68 (88%)	9 (12%)	7	35
52	BT	120/127 (94%)	97 (81%)	23 (19%)	2	12
52	DT	120/127 (94%)	97 (81%)	23 (19%)	2	12
53	BU	92/94 (98%)	83 (90%)	9 (10%)	10	44
53	DU	92/94 (98%)	83 (90%)	9 (10%)	10	44
54	BV	82/82 (100%)	71 (87%)	11 (13%)	5	29
54	DV	82/82 (100%)	71 (87%)	11 (13%)	5	29
55	BW	91/92 (99%)	84 (92%)	7 (8%)	16	56
55	DW	91/92 (99%)	84 (92%)	7 (8%)	16	56
56	BX	74/78 (95%)	64 (86%)	10 (14%)	5	29
56	DX	74/78 (95%)	64 (86%)	10 (14%)	5	29
57	BY	87/91 (96%)	75 (86%)	12 (14%)	4	28
57	DY	87/91 (96%)	75 (86%)	12 (14%)	4	28
58	BZ	162/179 (90%)	134 (83%)	28 (17%)	2	17
58	DZ	162/179 (90%)	144 (89%)	18 (11%)	8	38
All	All	11080/11566 (96%)	9776 (88%)	1304 (12%)	6	34

All (1304) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE
2	AB	24	TRP
2	AB	36	ARG
2	AB	43	ASP
2	AB	44	LEU
2	AB	67	THR
2	AB	79	ASP
2	AB	101	MET
2	AB	111	ARG
2	AB	129	GLU
2	AB	137	ARG
2	AB	157	ARG
2	AB	162	ILE
2	AB	172	ILE
2	AB	178	ARG
2	AB	192	SER
2	AB	200	ILE
2	AB	204	ASN
2	AB	212	GLN
2	AB	220	ASP
2	AB	221	LEU
3	AC	5	ILE
3	AC	16	ARG
3	AC	29	TYR
3	AC	34	LEU
3	AC	56	ASP
3	AC	72	LYS
3	AC	79	ARG
3	AC	85	ARG
3	AC	95	THR
3	AC	98	ASN
3	AC	125	GLU
3	AC	127	ARG
3	AC	152	ILE
3	AC	156	ARG
3	AC	165	THR
3	AC	167	TRP
3	AC	178	LEU
3	AC	179	ARG
4	AD	3	ARG
4	AD	9	CYS

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Mol	Chain	Res	Type
4	AD	12	CYS
4	AD	15	GLU
4	AD	22	LYS
4	AD	36	ARG
4	AD	49	ARG
4	AD	53	ASP
4	AD	57	ARG
4	AD	70	ILE
4	AD	73	ARG
4	AD	78	LEU
4	AD	96	LEU
4	AD	114	ARG
4	AD	127	THR
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	162	LEU
4	AD	168	ARG
5	AE	12	LEU
5	AE	18	ARG
5	AE	20	GLN
5	AE	31	LEU
5	AE	41	VAL
5	AE	47	LYS
5	AE	56	GLN
5	AE	64	ARG
5	AE	72	GLN
5	AE	75	THR
5	AE	76	ILE
5	AE	79	GLU
5	AE	101	ILE
5	AE	117	ASP
5	AE	144	THR
6	AF	15	ASP
6	AF	32	ASN
6	AF	43	LEU
6	AF	47	ARG
6	AF	69	GLU
6	AF	86	ARG
6	AF	98	LEU
7	AG	27	ILE
7	AG	57	GLU

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Mol	Chain	Res	Type
7	AG	66	VAL
7	AG	79	ARG
7	AG	104	LEU
7	AG	113	GLU
7	AG	124	LEU
7	AG	137	LYS
7	AG	151	TYR
8	AH	1	MET
8	AH	25	ASP
8	AH	54	ASP
8	AH	83	ILE
8	AH	91	ARG
8	AH	92	ARG
8	AH	98	LYS
8	AH	102	ARG
8	AH	118	VAL
9	AI	4	TYR
9	AI	10	ARG
9	AI	29	ASN
9	AI	59	PHE
9	AI	95	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	128	ARG
10	AJ	22	LYS
10	AJ	40	LEU
10	AJ	43	ARG
10	AJ	50	ILE
10	AJ	55	LYS
10	AJ	59	SER
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	74	ILE
10	AJ	76	ASN
10	AJ	96	ILE
11	AK	29	ILE
11	AK	87	THR
11	AK	91	ARG
11	AK	92	GLU
11	AK	117	ASN
11	AK	124	LYS
12	AL	7	ILE

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Mol	Chain	Res	Type
12	AL	20	LYS
12	AL	38	THR
12	AL	41	ARG
12	AL	47	LYS
12	AL	53	ARG
12	AL	70	ILE
12	AL	81	SER
12	AL	85	ILE
12	AL	113	ARG
13	AM	64	TRP
13	AM	66	LEU
13	AM	108	ARG
13	AM	113	PRO
13	AM	115	LYS
13	AM	120	LYS
13	AM	121	LYS
13	AM	124	PRO
14	AN	14	PRO
14	AN	16	PHE
14	AN	29	ARG
14	AN	41	ARG
14	AN	42	ILE
14	AN	44	LEU
15	AO	10	LYS
15	AO	39	LEU
15	AO	41	GLU
15	AO	57	LEU
15	AO	65	ARG
15	AO	82	ILE
15	AO	85	LEU
15	AO	88	ARG
16	AP	1	MET
16	AP	2	VAL
16	AP	6	LEU
16	AP	11	SER
16	AP	32	TYR
17	AQ	7	THR
17	AQ	9	VAL
17	AQ	23	VAL
17	AQ	35	VAL
17	AQ	48	GLU
17	AQ	52	LYS

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Mol	Chain	Res	Type
17	AQ	78	GLU
18	AR	29	PHE
18	AR	31	LEU
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	19	VAL
19	AS	29	ARG
19	AS	37	ARG
19	AS	44	MET
19	AS	66	MET
19	AS	77	THR
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	74	LYS
20	AT	84	LEU
20	AT	93	GLU
24	AY	20	HIS
24	AY	21	ILE
24	AY	40	HIS
24	AY	65	ILE
24	AY	83	ASP
24	AY	85	PRO
24	AY	88	VAL
24	AY	89	ASP
24	AY	92	ILE
24	AY	96	ARG
24	AY	100	VAL
24	AY	101	LEU
24	AY	102	ASP
24	AY	111	SER
24	AY	117	GLN
24	AY	122	TRP
24	AY	124	GLN
24	AY	130	VAL
24	AY	132	ARG
24	AY	137	ASN
24	AY	152	THR
24	AY	157	LEU

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Mol	Chain	Res	Type
24	AY	170	ARG
24	AY	191	ASP
24	AY	192	LEU
24	AY	240	GLU
24	AY	242	LEU
24	AY	252	ASP
24	AY	255	ILE
24	AY	260	LEU
24	AY	270	GLN
24	AY	289	ILE
24	AY	298	VAL
24	AY	312	LEU
24	AY	319	ASP
24	AY	326	THR
24	AY	337	SER
24	AY	343	ASN
24	AY	357	ARG
24	AY	378	VAL
24	AY	381	LYS
24	AY	388	THR
24	AY	399	LEU
24	AY	409	ILE
24	AY	410	ASP
24	AY	420	ASP
24	AY	421	GLN
24	AY	426	GLN
24	AY	428	LEU
24	AY	438	PHE
24	AY	440	VAL
24	AY	468	ARG
24	AY	476	VAL
24	AY	481	VAL
24	AY	487	ILE
24	AY	501	THR
24	AY	504	ARG
24	AY	509	HIS
24	AY	512	ILE
24	AY	515	GLU
24	AY	525	PHE
24	AY	527	ASN
24	AY	567	LEU
24	AY	572	TYR

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Mol	Chain	Res	Type
24	AY	574	GLU
24	AY	595	GLN
24	AY	598	ASP
24	AY	614	GLU
24	AY	630	GLN
24	AY	631	ILE
24	AY	634	MET
24	AY	644	ARG
24	AY	657	THR
24	AY	685	GLU
25	B0	5	LYS
25	B0	11	ARG
25	B0	20	ARG
25	B0	27	GLU
25	B0	41	ARG
25	B0	60	PHE
25	B0	75	LEU
25	B0	78	TYR
25	B0	84	LEU
26	B1	18	ILE
26	B1	35	THR
26	B1	45	ASN
26	B1	46	LEU
26	B1	56	GLN
26	B1	65	SER
26	B1	72	GLU
26	B1	73	LEU
26	B1	75	GLU
26	B1	80	LEU
26	B1	83	GLU
26	B1	94	LEU
26	B1	95	LEU
27	B2	3	LEU
27	B2	30	ARG
27	B2	32	LEU
27	B2	44	LEU
27	B2	52	ASP
27	B2	59	ARG
27	B2	64	LEU
28	B3	8	LEU
28	B3	28	LEU
28	B3	38	GLU

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Mol	Chain	Res	Type
28	B3	48	GLU
29	B4	1	MET
29	B4	5	ILE
29	B4	8	LYS
29	B4	9	LEU
29	B4	13	ARG
29	B4	20	ASN
29	B4	32	TYR
29	B4	40	HIS
29	B4	42	PHE
29	B4	43	TYR
29	B4	49	PHE
29	B4	51	ASP
29	B4	55	ARG
30	B5	3	LYS
30	B5	4	HIS
30	B5	23	HIS
30	B5	36	CYS
30	B5	55	ARG
30	B5	58	LEU
31	B6	6	ARG
31	B6	9	LEU
31	B6	10	LEU
31	B6	11	LEU
31	B6	15	GLU
31	B6	23	THR
31	B6	30	THR
31	B6	31	PRO
31	B6	39	TYR
31	B6	42	TRP
32	B7	1	MET
32	B7	4	THR
32	B7	8	ASN
32	B7	41	ARG
32	B7	48	LYS
33	B8	6	THR
33	B8	30	ARG
33	B8	32	LEU
33	B8	33	ASN
33	B8	34	TRP
33	B8	44	LYS
33	B8	48	PHE

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Mol	Chain	Res	Type
33	B8	49	VAL
33	B8	61	LEU
34	B9	1	MET
34	B9	10	ILE
34	B9	11	CYS
34	B9	29	ASN
37	BC	18	ASN
37	BC	53	ARG
37	BC	54	ARG
37	BC	74	ARG
37	BC	149	ASN
37	BC	184	GLU
37	BC	185	LYS
37	BC	189	ASN
37	BC	191	ARG
37	BC	212	SER
38	BD	10	THR
38	BD	23	GLU
38	BD	24	ILE
38	BD	26	LYS
38	BD	35	LYS
38	BD	37	LEU
38	BD	43	ARG
38	BD	61	LEU
38	BD	63	ARG
38	BD	65	ILE
38	BD	87	ASN
38	BD	89	SER
38	BD	92	ILE
38	BD	94	LEU
38	BD	95	LEU
38	BD	96	HIS
38	BD	104	TYR
38	BD	106	ILE
38	BD	111	LEU
38	BD	117	VAL
38	BD	131	LEU
38	BD	157	ARG
38	BD	166	GLN
38	BD	183	ARG
38	BD	190	TYR
38	BD	192	THR

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Mol	Chain	Res	Type
38	BD	202	LYS
38	BD	211	ARG
38	BD	212	SER
38	BD	221	VAL
38	BD	227	ASN
38	BD	228	PRO
38	BD	244	ARG
38	BD	246	PRO
38	BD	257	LEU
38	BD	260	ARG
38	BD	263	ARG
38	BD	270	ILE
38	BD	273	ARG
38	BD	275	LYS
39	BE	4	ILE
39	BE	9	VAL
39	BE	18	ASP
39	BE	24	THR
39	BE	36	ARG
39	BE	49	LEU
39	BE	54	GLN
39	BE	55	ASN
39	BE	61	ARG
39	BE	67	PHE
39	BE	69	LYS
39	BE	78	LEU
39	BE	79	ARG
39	BE	94	GLU
39	BE	95	ILE
39	BE	118	LYS
39	BE	119	ARG
39	BE	121	ASN
39	BE	134	ILE
39	BE	144	ARG
39	BE	178	GLU
39	BE	184	VAL
39	BE	192	ASN
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	19	GLU
40	BF	28	ILE

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Mol	Chain	Res	Type
40	BF	41	LEU
40	BF	64	ILE
40	BF	66	PRO
40	BF	83	PHE
40	BF	125	LEU
40	BF	149	ASP
40	BF	160	ASN
40	BF	165	ARG
40	BF	175	THR
40	BF	179	GLU
41	BG	4	ASP
41	BG	5	VAL
41	BG	16	ARG
41	BG	22	ARG
41	BG	33	ARG
41	BG	34	LEU
41	BG	36	LYS
41	BG	60	LEU
41	BG	71	THR
41	BG	80	PHE
41	BG	83	ARG
41	BG	91	ARG
41	BG	98	ARG
41	BG	118	ARG
41	BG	128	ARG
41	BG	133	LEU
41	BG	135	LEU
41	BG	145	THR
41	BG	147	ASP
41	BG	148	MET
41	BG	152	LEU
41	BG	159	VAL
41	BG	164	GLU
41	BG	166	ASP
42	BH	46	GLU
42	BH	49	VAL
42	BH	53	GLU
42	BH	54	ARG
42	BH	83	TYR
42	BH	89	ILE
42	BH	104	GLU
42	BH	105	LEU

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Mol	Chain	Res	Type
42	BH	143	GLN
42	BH	158	HIS
44	BK	2	LYS
44	BK	3	LYS
44	BK	5	VAL
44	BK	29	GLN
44	BK	30	HIS
44	BK	34	ILE
44	BK	38	VAL
44	BK	47	ASN
44	BK	65	PHE
44	BK	70	LYS
44	BK	77	LEU
44	BK	86	LYS
44	BK	95	LYS
44	BK	105	LEU
44	BK	117	THR
46	BN	1	MET
46	BN	4	TYR
46	BN	23	LEU
46	BN	26	LEU
46	BN	39	ARG
46	BN	41	ASP
46	BN	45	ASN
46	BN	48	MET
46	BN	56	ASN
46	BN	63	THR
46	BN	65	LYS
46	BN	96	GLU
46	BN	109	LYS
46	BN	123	TYR
47	BO	23	ARG
47	BO	38	VAL
47	BO	40	VAL
47	BO	48	PRO
47	BO	49	ARG
47	BO	80	ASP
47	BO	87	ILE
47	BO	117	LEU
48	BP	7	ARG
48	BP	13	ASN
48	BP	16	ARG

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Mol	Chain	Res	Type
48	BP	18	ARG
48	BP	39	LYS
48	BP	41	ARG
48	BP	42	SER
48	BP	51	PHE
48	BP	57	THR
48	BP	60	MET
48	BP	61	ARG
48	BP	62	LEU
48	BP	64	LYS
48	BP	70	GLN
48	BP	81	GLN
48	BP	85	LEU
48	BP	91	PHE
48	BP	108	LYS
48	BP	114	ILE
48	BP	123	LEU
48	BP	149	GLU
49	BQ	14	ARG
49	BQ	17	LEU
49	BQ	45	GLN
49	BQ	46	GLN
49	BQ	55	VAL
49	BQ	56	ARG
49	BQ	58	PHE
49	BQ	65	PHE
49	BQ	67	ARG
49	BQ	76	LYS
49	BQ	79	LEU
49	BQ	81	VAL
49	BQ	106	VAL
49	BQ	134	ARG
49	BQ	135	ASP
49	BQ	139	GLU
50	BR	8	ARG
50	BR	27	SER
50	BR	30	THR
50	BR	33	ARG
50	BR	54	LEU
50	BR	71	GLN
50	BR	75	LEU
50	BR	94	TYR

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Mol	Chain	Res	Type
50	BR	97	VAL
50	BR	99	LYS
50	BR	100	LEU
51	BS	11	LYS
51	BS	12	PHE
51	BS	36	TYR
51	BS	63	THR
51	BS	67	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	101	LEU
51	BS	106	ARG
52	BT	6	LEU
52	BT	13	ARG
52	BT	16	ARG
52	BT	24	PRO
52	BT	32	TYR
52	BT	38	ASN
52	BT	49	VAL
52	BT	53	ARG
52	BT	58	ASN
52	BT	62	THR
52	BT	65	LYS
52	BT	78	LEU
52	BT	82	LEU
52	BT	90	GLN
52	BT	93	ARG
52	BT	96	ARG
52	BT	108	ARG
52	BT	115	ARG
52	BT	124	ASP
52	BT	125	ARG
52	BT	128	GLU
52	BT	129	ARG
52	BT	132	LYS
53	BU	20	LEU
53	BU	49	HIS
53	BU	74	LEU
53	BU	76	TYR
53	BU	79	PHE
53	BU	92	ARG
53	BU	101	ARG

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Mol	Chain	Res	Type
53	BU	108	GLU
53	BU	112	ARG
54	BV	1	MET
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	39	LEU
54	BV	40	LEU
54	BV	82	ARG
54	BV	89	GLN
54	BV	95	LEU
54	BV	98	GLU
54	BV	99	ILE
55	BW	11	ARG
55	BW	40	ASN
55	BW	52	GLU
55	BW	75	TYR
55	BW	88	ARG
55	BW	98	LYS
55	BW	107	LEU
56	BX	3	THR
56	BX	11	PRO
56	BX	27	THR
56	BX	28	PHE
56	BX	51	VAL
56	BX	56	THR
56	BX	57	LEU
56	BX	68	ARG
56	BX	75	ASP
56	BX	76	ARG
57	BY	2	ARG
57	BY	7	VAL
57	BY	9	LYS
57	BY	29	GLU
57	BY	32	PRO
57	BY	51	VAL
57	BY	53	PRO
57	BY	55	TYR
57	BY	77	PRO
57	BY	79	CYS
57	BY	90	LEU
57	BY	102	CYS

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Mol	Chain	Res	Type
58	BZ	5	LEU
58	BZ	6	LYS
58	BZ	8	TYR
58	BZ	28	MET
58	BZ	30	ASN
58	BZ	31	ARG
58	BZ	34	ASN
58	BZ	55	HIS
58	BZ	63	ASP
58	BZ	68	PRO
58	BZ	72	ARG
58	BZ	78	LYS
58	BZ	83	PRO
58	BZ	87	ASP
58	BZ	92	SER
58	BZ	107	THR
58	BZ	112	ARG
58	BZ	123	ASP
58	BZ	127	LYS
58	BZ	140	ASP
58	BZ	146	ILE
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	158	PRO
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	171	ILE
58	BZ	186	GLU
2	CB	15	VAL
2	CB	16	HIS
2	CB	17	PHE
2	CB	24	TRP
2	CB	36	ARG
2	CB	43	ASP
2	CB	44	LEU
2	CB	67	THR
2	CB	79	ASP
2	CB	101	MET
2	CB	111	ARG
2	CB	129	GLU
2	CB	137	ARG
2	CB	157	ARG

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Mol	Chain	Res	Type
2	CB	162	ILE
2	CB	172	ILE
2	CB	178	ARG
2	CB	192	SER
2	CB	200	ILE
2	CB	204	ASN
2	CB	212	GLN
2	CB	220	ASP
2	CB	221	LEU
3	CC	5	ILE
3	CC	16	ARG
3	CC	29	TYR
3	CC	34	LEU
3	CC	56	ASP
3	CC	72	LYS
3	CC	79	ARG
3	CC	85	ARG
3	CC	95	THR
3	CC	98	ASN
3	CC	125	GLU
3	CC	127	ARG
3	CC	152	ILE
3	CC	156	ARG
3	CC	165	THR
3	CC	167	TRP
3	CC	178	LEU
3	CC	179	ARG
4	CD	3	ARG
4	CD	9	CYS
4	CD	12	CYS
4	CD	15	GLU
4	CD	22	LYS
4	CD	36	ARG
4	CD	49	ARG
4	CD	53	ASP
4	CD	57	ARG
4	CD	70	ILE
4	CD	73	ARG
4	CD	78	LEU
4	CD	96	LEU
4	CD	114	ARG
4	CD	127	THR

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Mol	Chain	Res	Type
4	CD	131	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	162	LEU
4	CD	168	ARG
5	CE	12	LEU
5	CE	18	ARG
5	CE	20	GLN
5	CE	31	LEU
5	CE	41	VAL
5	CE	47	LYS
5	CE	56	GLN
5	CE	64	ARG
5	CE	72	GLN
5	CE	75	THR
5	CE	76	ILE
5	CE	79	GLU
5	CE	101	ILE
5	CE	117	ASP
5	CE	144	THR
6	CF	15	ASP
6	CF	32	ASN
6	CF	43	LEU
6	CF	47	ARG
6	CF	69	GLU
6	CF	86	ARG
6	CF	98	LEU
7	CG	27	ILE
7	CG	57	GLU
7	CG	66	VAL
7	CG	79	ARG
7	CG	104	LEU
7	CG	113	GLU
7	CG	124	LEU
7	CG	137	LYS
7	CG	151	TYR
8	CH	1	MET
8	CH	25	ASP
8	CH	54	ASP
8	CH	91	ARG
8	CH	98	LYS
8	CH	102	ARG

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Mol	Chain	Res	Type
8	CH	118	VAL
9	CI	4	TYR
9	CI	10	ARG
9	CI	29	ASN
9	CI	59	PHE
9	CI	95	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	128	ARG
10	CJ	22	LYS
10	CJ	40	LEU
10	CJ	43	ARG
10	CJ	50	ILE
10	CJ	55	LYS
10	CJ	59	SER
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	74	ILE
10	CJ	76	ASN
10	CJ	96	ILE
11	CK	29	ILE
11	CK	87	THR
11	CK	91	ARG
11	CK	92	GLU
11	CK	117	ASN
11	CK	124	LYS
12	CL	7	ILE
12	CL	20	LYS
12	CL	38	THR
12	CL	41	ARG
12	CL	47	LYS
12	CL	53	ARG
12	CL	70	ILE
12	CL	81	SER
12	CL	85	ILE
12	CL	98	TYR
12	CL	113	ARG
13	CM	64	TRP
13	CM	66	LEU
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS

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Mol	Chain	Res	Type
13	CM	120	LYS
13	CM	121	LYS
13	CM	124	PRO
14	CN	14	PRO
14	CN	16	PHE
14	CN	29	ARG
14	CN	41	ARG
14	CN	42	ILE
14	CN	44	LEU
15	CO	10	LYS
15	CO	39	LEU
15	CO	41	GLU
15	CO	57	LEU
15	CO	65	ARG
15	CO	82	ILE
15	CO	85	LEU
15	CO	88	ARG
16	CP	1	MET
16	CP	2	VAL
16	CP	6	LEU
16	CP	11	SER
16	CP	32	TYR
17	CQ	7	THR
17	CQ	9	VAL
17	CQ	23	VAL
17	CQ	35	VAL
17	CQ	48	GLU
17	CQ	52	LYS
17	CQ	78	GLU
18	CR	29	PHE
18	CR	31	LEU
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	19	VAL
19	CS	29	ARG
19	CS	37	ARG
19	CS	44	MET
19	CS	66	MET
19	CS	77	THR
20	CT	13	LEU

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Mol	Chain	Res	Type
20	CT	24	LEU
20	CT	26	ASN
20	CT	36	LEU
20	CT	74	LYS
20	CT	84	LEU
20	CT	93	GLU
24	CY	6	GLU
24	CY	13	ARG
24	CY	14	ASN
24	CY	21	ILE
24	CY	34	TYR
24	CY	65	ILE
24	CY	66	THR
24	CY	79	ILE
24	CY	81	ILE
24	CY	88	VAL
24	CY	90	PHE
24	CY	92	ILE
24	CY	95	GLU
24	CY	100	VAL
24	CY	101	LEU
24	CY	102	ASP
24	CY	117	GLN
24	CY	128	TYR
24	CY	130	VAL
24	CY	132	ARG
24	CY	137	ASN
24	CY	157	LEU
24	CY	175	SER
24	CY	191	ASP
24	CY	192	LEU
24	CY	216	LEU
24	CY	225	GLU
24	CY	232	LEU
24	CY	255	ILE
24	CY	260	LEU
24	CY	278	ASP
24	CY	312	LEU
24	CY	326	THR
24	CY	343	ASN
24	CY	357	ARG
24	CY	381	LYS

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Mol	Chain	Res	Type
24	CY	388	THR
24	CY	396	ARG
24	CY	397	VAL
24	CY	399	LEU
24	CY	415	PRO
24	CY	420	ASP
24	CY	421	GLN
24	CY	422	GLU
24	CY	428	LEU
24	CY	438	PHE
24	CY	459	LEU
24	CY	476	VAL
24	CY	487	ILE
24	CY	492	ASP
24	CY	499	ARG
24	CY	504	ARG
24	CY	507	TYR
24	CY	512	ILE
24	CY	527	ASN
24	CY	548	GLU
24	CY	572	TYR
24	CY	575	VAL
24	CY	580	MET
24	CY	598	ASP
24	CY	614	GLU
24	CY	634	MET
24	CY	641	GLN
24	CY	644	ARG
24	CY	647	VAL
24	CY	661	SER
24	CY	674	ASP
24	CY	683	VAL
25	D0	5	LYS
25	D0	11	ARG
25	D0	20	ARG
25	D0	27	GLU
25	D0	41	ARG
25	D0	60	PHE
25	D0	75	LEU
25	D0	78	TYR
25	D0	84	LEU
26	D1	20	ARG

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Mol	Chain	Res	Type
26	D1	39	LYS
26	D1	45	ASN
26	D1	46	LEU
26	D1	50	ARG
26	D1	61	ARG
26	D1	80	LEU
26	D1	83	GLU
27	D2	20	GLU
27	D2	37	PHE
27	D2	53	LEU
27	D2	56	GLN
27	D2	57	ILE
27	D2	59	ARG
27	D2	60	LEU
27	D2	63	VAL
28	D3	8	LEU
28	D3	28	LEU
28	D3	38	GLU
28	D3	48	GLU
29	D4	1	MET
29	D4	5	ILE
29	D4	8	LYS
29	D4	9	LEU
29	D4	13	ARG
29	D4	20	ASN
29	D4	32	TYR
29	D4	39	CYS
29	D4	40	HIS
29	D4	42	PHE
29	D4	43	TYR
29	D4	49	PHE
29	D4	51	ASP
29	D4	55	ARG
30	D5	3	LYS
30	D5	4	HIS
30	D5	23	HIS
30	D5	36	CYS
30	D5	55	ARG
30	D5	58	LEU
31	D6	6	ARG
31	D6	9	LEU
31	D6	10	LEU

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Mol	Chain	Res	Type
31	D6	11	LEU
31	D6	15	GLU
31	D6	23	THR
31	D6	28	ARG
31	D6	30	THR
31	D6	31	PRO
31	D6	39	TYR
31	D6	42	TRP
32	D7	1	MET
32	D7	4	THR
32	D7	8	ASN
32	D7	41	ARG
32	D7	48	LYS
33	D8	6	THR
33	D8	30	ARG
33	D8	32	LEU
33	D8	33	ASN
33	D8	34	TRP
33	D8	44	LYS
33	D8	48	PHE
33	D8	49	VAL
33	D8	61	LEU
33	D8	64	TYR
34	D9	1	MET
34	D9	2	LYS
34	D9	10	ILE
34	D9	11	CYS
34	D9	29	ASN
37	DC	18	ASN
37	DC	53	ARG
37	DC	54	ARG
37	DC	74	ARG
37	DC	121	MET
37	DC	149	ASN
37	DC	184	GLU
37	DC	185	LYS
37	DC	189	ASN
37	DC	191	ARG
37	DC	212	SER
38	DD	10	THR
38	DD	23	GLU
38	DD	24	ILE

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Mol	Chain	Res	Type
38	DD	26	LYS
38	DD	35	LYS
38	DD	37	LEU
38	DD	43	ARG
38	DD	61	LEU
38	DD	63	ARG
38	DD	65	ILE
38	DD	87	ASN
38	DD	89	SER
38	DD	92	ILE
38	DD	94	LEU
38	DD	95	LEU
38	DD	96	HIS
38	DD	104	TYR
38	DD	106	ILE
38	DD	111	LEU
38	DD	117	VAL
38	DD	131	LEU
38	DD	157	ARG
38	DD	166	GLN
38	DD	183	ARG
38	DD	190	TYR
38	DD	192	THR
38	DD	202	LYS
38	DD	212	SER
38	DD	221	VAL
38	DD	227	ASN
38	DD	228	PRO
38	DD	244	ARG
38	DD	246	PRO
38	DD	257	LEU
38	DD	260	ARG
38	DD	270	ILE
38	DD	271	ILE
38	DD	273	ARG
38	DD	275	LYS
39	DE	4	ILE
39	DE	9	VAL
39	DE	18	ASP
39	DE	36	ARG
39	DE	49	LEU
39	DE	55	ASN

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Mol	Chain	Res	Type
39	DE	61	ARG
39	DE	67	PHE
39	DE	69	LYS
39	DE	78	LEU
39	DE	79	ARG
39	DE	94	GLU
39	DE	95	ILE
39	DE	113	PHE
39	DE	118	LYS
39	DE	119	ARG
39	DE	121	ASN
39	DE	134	ILE
39	DE	144	ARG
39	DE	178	GLU
39	DE	184	VAL
39	DE	192	ASN
39	DE	197	ILE
39	DE	202	LYS
39	DE	203	LYS
40	DF	19	GLU
40	DF	28	ILE
40	DF	41	LEU
40	DF	64	ILE
40	DF	66	PRO
40	DF	83	PHE
40	DF	125	LEU
40	DF	149	ASP
40	DF	160	ASN
40	DF	165	ARG
40	DF	175	THR
40	DF	179	GLU
41	DG	4	ASP
41	DG	22	ARG
41	DG	26	GLN
41	DG	33	ARG
41	DG	34	LEU
41	DG	37	VAL
41	DG	38	VAL
41	DG	40	ASN
41	DG	43	LEU
41	DG	45	GLU
41	DG	47	LYS

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Mol	Chain	Res	Type
41	DG	49	ASP
41	DG	51	ARG
41	DG	62	LEU
41	DG	67	LYS
41	DG	80	PHE
41	DG	82	LEU
41	DG	83	ARG
41	DG	98	ARG
41	DG	118	ARG
41	DG	120	LEU
41	DG	123	ASN
41	DG	135	LEU
41	DG	143	GLU
41	DG	145	THR
41	DG	148	MET
41	DG	159	VAL
41	DG	166	ASP
41	DG	167	GLU
42	DH	46	GLU
42	DH	49	VAL
42	DH	53	GLU
42	DH	54	ARG
42	DH	83	TYR
42	DH	89	ILE
42	DH	104	GLU
42	DH	105	LEU
42	DH	143	GLN
42	DH	158	HIS
44	DK	2	LYS
44	DK	3	LYS
44	DK	29	GLN
44	DK	30	HIS
44	DK	34	ILE
44	DK	38	VAL
44	DK	47	ASN
44	DK	65	PHE
44	DK	70	LYS
44	DK	77	LEU
44	DK	86	LYS
44	DK	95	LYS
44	DK	105	LEU
44	DK	117	THR

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Mol	Chain	Res	Type
46	DN	1	MET
46	DN	4	TYR
46	DN	23	LEU
46	DN	26	LEU
46	DN	39	ARG
46	DN	41	ASP
46	DN	45	ASN
46	DN	48	MET
46	DN	56	ASN
46	DN	63	THR
46	DN	65	LYS
46	DN	78	TYR
46	DN	96	GLU
46	DN	109	LYS
46	DN	123	TYR
47	DO	23	ARG
47	DO	38	VAL
47	DO	40	VAL
47	DO	48	PRO
47	DO	49	ARG
47	DO	80	ASP
47	DO	87	ILE
47	DO	117	LEU
48	DP	7	ARG
48	DP	13	ASN
48	DP	16	ARG
48	DP	18	ARG
48	DP	39	LYS
48	DP	41	ARG
48	DP	42	SER
48	DP	51	PHE
48	DP	57	THR
48	DP	60	MET
48	DP	61	ARG
48	DP	62	LEU
48	DP	64	LYS
48	DP	70	GLN
48	DP	81	GLN
48	DP	85	LEU
48	DP	91	PHE
48	DP	108	LYS
48	DP	114	ILE

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Mol	Chain	Res	Type
48	DP	123	LEU
48	DP	149	GLU
49	DQ	14	ARG
49	DQ	45	GLN
49	DQ	46	GLN
49	DQ	55	VAL
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	65	PHE
49	DQ	67	ARG
49	DQ	76	LYS
49	DQ	79	LEU
49	DQ	81	VAL
49	DQ	134	ARG
49	DQ	135	ASP
49	DQ	139	GLU
50	DR	8	ARG
50	DR	27	SER
50	DR	30	THR
50	DR	33	ARG
50	DR	54	LEU
50	DR	65	LEU
50	DR	71	GLN
50	DR	75	LEU
50	DR	94	TYR
50	DR	97	VAL
50	DR	99	LYS
50	DR	100	LEU
51	DS	11	LYS
51	DS	12	PHE
51	DS	36	TYR
51	DS	63	THR
51	DS	67	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	101	LEU
51	DS	106	ARG
52	DT	6	LEU
52	DT	13	ARG
52	DT	16	ARG
52	DT	24	PRO
52	DT	32	TYR

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Mol	Chain	Res	Type
52	DT	38	ASN
52	DT	49	VAL
52	DT	53	ARG
52	DT	58	ASN
52	DT	62	THR
52	DT	65	LYS
52	DT	78	LEU
52	DT	82	LEU
52	DT	90	GLN
52	DT	93	ARG
52	DT	96	ARG
52	DT	108	ARG
52	DT	115	ARG
52	DT	124	ASP
52	DT	125	ARG
52	DT	128	GLU
52	DT	129	ARG
52	DT	132	LYS
53	DU	20	LEU
53	DU	49	HIS
53	DU	74	LEU
53	DU	76	TYR
53	DU	79	PHE
53	DU	92	ARG
53	DU	101	ARG
53	DU	108	GLU
53	DU	112	ARG
54	DV	1	MET
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG
54	DV	39	LEU
54	DV	40	LEU
54	DV	82	ARG
54	DV	89	GLN
54	DV	95	LEU
54	DV	98	GLU
54	DV	99	ILE
55	DW	11	ARG
55	DW	40	ASN
55	DW	52	GLU
55	DW	75	TYR

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Mol	Chain	Res	Type
55	DW	88	ARG
55	DW	98	LYS
55	DW	107	LEU
56	DX	3	THR
56	DX	11	PRO
56	DX	27	THR
56	DX	28	PHE
56	DX	51	VAL
56	DX	56	THR
56	DX	57	LEU
56	DX	68	ARG
56	DX	75	ASP
56	DX	76	ARG
57	DY	2	ARG
57	DY	7	VAL
57	DY	9	LYS
57	DY	29	GLU
57	DY	32	PRO
57	DY	51	VAL
57	DY	53	PRO
57	DY	55	TYR
57	DY	77	PRO
57	DY	79	CYS
57	DY	90	LEU
57	DY	102	CYS
58	DZ	5	LEU
58	DZ	6	LYS
58	DZ	8	TYR
58	DZ	20	ARG
58	DZ	24	LEU
58	DZ	31	ARG
58	DZ	72	ARG
58	DZ	81	ARG
58	DZ	87	ASP
58	DZ	92	SER
58	DZ	112	ARG
58	DZ	123	ASP
58	DZ	140	ASP
58	DZ	150	LEU
58	DZ	154	ASP
58	DZ	168	GLU
58	DZ	171	ILE

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Mol	Chain	Res	Type
58	DZ	179	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (348) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	40	HIS
2	AB	78	GLN
2	AB	94	ASN
2	AB	110	GLN
2	AB	113	HIS
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	37	GLN
3	AC	108	ASN
3	AC	118	GLN
3	AC	170	GLN
3	AC	176	HIS
3	AC	181	ASN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	129	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
6	AF	16	GLN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	73	ASN
6	AF	100	ASN
7	AG	13	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	96	GLN
7	AG	97	GLN
7	AG	106	GLN
8	AH	82	HIS
9	AI	3	GLN

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Mol	Chain	Res	Type
9	AI	58	HIS
9	AI	124	GLN
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	76	ASN
10	AJ	84	GLN
11	AK	22	HIS
11	AK	117	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
12	AL	99	HIS
13	AM	40	ASN
13	AM	77	ASN
14	AN	49	HIS
15	AO	9	GLN
15	AO	13	GLN
15	AO	37	ASN
15	AO	62	GLN
17	AQ	16	GLN
19	AS	14	HIS
19	AS	47	HIS
20	AT	26	ASN
20	AT	42	GLN
20	AT	45	GLN
20	AT	75	ASN
24	AY	14	ASN
24	AY	124	GLN
24	AY	137	ASN
24	AY	165	GLN
24	AY	208	GLN
24	AY	343	ASN
24	AY	421	GLN
24	AY	458	HIS
24	AY	475	ASN
24	AY	500	GLN
24	AY	527	ASN
24	AY	573	HIS
24	AY	630	GLN
24	AY	641	GLN
25	B0	70	GLN
26	B1	45	ASN

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Mol	Chain	Res	Type
26	B1	56	GLN
27	B2	38	GLN
27	B2	47	ASN
27	B2	56	GLN
28	B3	19	GLN
28	B3	46	ASN
30	B5	22	HIS
30	B5	23	HIS
30	B5	43	HIS
31	B6	20	ASN
31	B6	26	ASN
31	B6	32	ASN
31	B6	49	HIS
32	B7	8	ASN
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
34	B9	29	ASN
37	BC	58	ASN
37	BC	149	ASN
37	BC	166	ASN
38	BD	58	HIS
38	BD	115	GLN
38	BD	116	GLN
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
38	BD	227	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	129	HIS
39	BE	143	ASN
39	BE	169	ASN
39	BE	192	ASN
40	BF	8	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN

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Mol	Chain	Res	Type
40	BF	204	ASN
41	BG	27	ASN
42	BH	65	HIS
42	BH	147	ASN
42	BH	158	HIS
44	BK	29	GLN
44	BK	47	ASN
44	BK	89	HIS
46	BN	45	ASN
46	BN	56	ASN
46	BN	101	HIS
46	BN	131	GLN
47	BO	5	GLN
47	BO	82	ASN
48	BP	9	ASN
48	BP	13	ASN
48	BP	27	HIS
48	BP	84	ASN
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	13	GLN
49	BQ	45	GLN
50	BR	3	HIS
50	BR	16	HIS
50	BR	23	ASN
50	BR	61	HIS
52	BT	38	ASN
52	BT	43	GLN
52	BT	58	ASN
52	BT	84	GLN
52	BT	90	GLN
53	BU	14	HIS
53	BU	44	ASN
53	BU	49	HIS
53	BU	66	ASN
53	BU	81	HIS
53	BU	94	ASN
53	BU	117	GLN
54	BV	11	GLN
55	BW	61	ASN
55	BW	102	HIS
56	BX	41	ASN

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Mol	Chain	Res	Type
56	BX	55	ASN
56	BX	82	GLN
58	BZ	54	HIS
58	BZ	65	GLN
58	BZ	118	GLN
58	BZ	121	HIS
2	CB	37	ASN
2	CB	40	HIS
2	CB	78	GLN
2	CB	94	ASN
2	CB	110	GLN
2	CB	113	HIS
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	37	GLN
3	CC	108	ASN
3	CC	118	GLN
3	CC	170	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	62	GLN
4	CD	74	GLN
4	CD	77	ASN
4	CD	129	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	73	ASN
6	CF	16	GLN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	73	ASN
6	CF	100	ASN
7	CG	13	GLN
7	CG	68	ASN
7	CG	84	ASN
7	CG	96	GLN
7	CG	97	GLN
7	CG	106	GLN
8	CH	82	HIS

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Mol	Chain	Res	Type
9	CI	3	GLN
9	CI	58	HIS
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	68	HIS
10	CJ	76	ASN
10	CJ	84	GLN
11	CK	22	HIS
11	CK	117	ASN
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
13	CM	40	ASN
13	CM	77	ASN
13	CM	101	GLN
14	CN	49	HIS
15	CO	9	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	62	GLN
17	CQ	16	GLN
19	CS	14	HIS
19	CS	47	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	45	GLN
20	CT	75	ASN
24	CY	40	HIS
24	CY	117	GLN
24	CY	137	ASN
24	CY	165	GLN
24	CY	270	GLN
24	CY	343	ASN
24	CY	421	GLN
24	CY	448	GLN
24	CY	458	HIS
24	CY	480	GLN
24	CY	500	GLN
24	CY	527	ASN
24	CY	543	GLN
24	CY	573	HIS

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Mol	Chain	Res	Type
24	CY	625	ASN
24	CY	630	GLN
24	CY	664	GLN
25	D0	12	ASN
25	D0	70	GLN
26	D1	45	ASN
26	D1	56	GLN
27	D2	38	GLN
27	D2	47	ASN
27	D2	65	ASN
28	D3	19	GLN
28	D3	46	ASN
30	D5	43	HIS
31	D6	20	ASN
31	D6	26	ASN
31	D6	32	ASN
31	D6	49	HIS
32	D7	8	ASN
33	D8	31	HIS
33	D8	33	ASN
33	D8	43	GLN
34	D9	29	ASN
37	DC	58	ASN
37	DC	149	ASN
37	DC	166	ASN
38	DD	58	HIS
38	DD	96	HIS
38	DD	115	GLN
38	DD	116	GLN
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
38	DD	227	ASN
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	129	HIS
39	DE	143	ASN
39	DE	169	ASN
39	DE	192	ASN

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Mol	Chain	Res	Type
40	DF	8	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN
40	DF	169	ASN
40	DF	204	ASN
41	DG	27	ASN
41	DG	41	GLN
41	DG	58	GLN
42	DH	65	HIS
42	DH	147	ASN
42	DH	158	HIS
44	DK	29	GLN
44	DK	47	ASN
44	DK	89	HIS
46	DN	45	ASN
46	DN	56	ASN
46	DN	101	HIS
46	DN	131	GLN
47	DO	5	GLN
47	DO	82	ASN
48	DP	9	ASN
48	DP	13	ASN
48	DP	27	HIS
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	13	GLN
49	DQ	45	GLN
50	DR	3	HIS
50	DR	16	HIS
50	DR	23	ASN
50	DR	61	HIS
50	DR	71	GLN
51	DS	16	ASN
52	DT	38	ASN
52	DT	43	GLN
52	DT	58	ASN
52	DT	84	GLN
52	DT	90	GLN
53	DU	44	ASN

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Mol	Chain	Res	Type
53	DU	49	HIS
53	DU	66	ASN
53	DU	81	HIS
53	DU	94	ASN
53	DU	117	GLN
54	DV	11	GLN
55	DW	61	ASN
55	DW	102	HIS
56	DX	41	ASN
56	DX	55	ASN
56	DX	82	GLN
57	DY	6	HIS
58	DZ	54	HIS
58	DZ	55	HIS
58	DZ	65	GLN
58	DZ	73	GLN
58	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	270 (17%)	43 (2%)
1	CA	1503/1522 (98%)	266 (17%)	43 (2%)
22	AV	76/77 (98%)	15 (19%)	0
22	AW	76/77 (98%)	25 (32%)	1 (1%)
22	CV	76/77 (98%)	14 (18%)	0
22	CW	76/77 (98%)	19 (25%)	1 (1%)
23	AX	11/25 (44%)	4 (36%)	1 (9%)
23	CX	11/25 (44%)	4 (36%)	1 (9%)
35	BA	2900/2915 (99%)	597 (20%)	71 (2%)
35	DA	2900/2915 (99%)	594 (20%)	71 (2%)
36	BB	118/122 (96%)	25 (21%)	0
36	DB	118/122 (96%)	25 (21%)	0
All	All	9368/9476 (98%)	1858 (19%)	232 (2%)

All (1858) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A

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Mol	Chain	Res	Type
1	AA	33	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	61	G
1	AA	62	U
1	AA	81	U
1	AA	88	A
1	AA	89	C
1	AA	90	U
1	AA	91	C
1	AA	97	G
1	AA	98	G
1	AA	101	A
1	AA	104	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129	U
1	AA	129(A)	G
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	147	G
1	AA	149	A
1	AA	160	A
1	AA	163	C
1	AA	181	G
1	AA	182	U
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	243	A
1	AA	244	U

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Mol	Chain	Res	Type
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	268	C
1	AA	281	G
1	AA	289	G
1	AA	316	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	350	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	437	U
1	AA	439	A
1	AA	444	C
1	AA	452	A
1	AA	460	G
1	AA	461	A
1	AA	471	G
1	AA	481	G
1	AA	484	G
1	AA	485	G
1	AA	496	A

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Mol	Chain	Res	Type
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	547	A
1	AA	553	A
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	588	G
1	AA	596	C
1	AA	631	G
1	AA	632	A
1	AA	650	G
1	AA	653	A
1	AA	665	A
1	AA	682	G
1	AA	683	G
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	704	A
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	724	G
1	AA	728	A
1	AA	731	G
1	AA	744	C
1	AA	748	C

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Mol	Chain	Res	Type
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	813	U
1	AA	816	A
1	AA	817	C
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	867	G
1	AA	874	G
1	AA	895	G
1	AA	907	A
1	AA	914	A
1	AA	921	U
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	951	G
1	AA	960	U
1	AA	961	U
1	AA	968	A
1	AA	969	A
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	981	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	997	U
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A

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Mol	Chain	Res	Type
1	AA	1010	G
1	AA	1027	C
1	AA	1030	C
1	AA	1030(B)	C
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1129	C
1	AA	1130	A
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1154	G
1	AA	1159	U
1	AA	1184	G
1	AA	1187	G
1	AA	1196	U
1	AA	1197	G
1	AA	1199	U
1	AA	1202	G
1	AA	1212	U
1	AA	1214	C
1	AA	1217	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C

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Mol	Chain	Res	Type
1	AA	1256	A
1	AA	1257	U
1	AA	1273	G
1	AA	1280	A
1	AA	1281	U
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1298	C
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1346	A
1	AA	1348	U
1	AA	1354	C
1	AA	1363	C
1	AA	1364	U
1	AA	1365	G
1	AA	1370	G
1	AA	1379	G
1	AA	1394	A
1	AA	1397	C
1	AA	1398	A
1	AA	1404	C
1	AA	1419	G
1	AA	1434	A
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G

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Mol	Chain	Res	Type
1	AA	1490	C
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	4	G
22	AV	5	G
22	AV	8	U
22	AV	17	C
22	AV	17(A)	U
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	47	U
22	AV	48	C
22	AV	63	G
22	AV	71	C
22	AV	75	C
22	AV	76	A
22	AW	5	G
22	AW	7	G
22	AW	8	U
22	AW	9	G
22	AW	10	G
22	AW	15	G
22	AW	18	U
22	AW	19	G
22	AW	20	G
22	AW	21	U
22	AW	22	A
22	AW	28	U

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Mol	Chain	Res	Type
22	AW	48	U
22	AW	49	C
22	AW	50	G
22	AW	53	G
22	AW	62	C
22	AW	64	G
22	AW	66	C
22	AW	68	C
22	AW	69	C
22	AW	72	C
22	AW	73	A
22	AW	74	A
22	AW	75	C
23	AX	12	A
23	AX	13	A
23	AX	14	A
23	AX	19	U
35	BA	9	U
35	BA	18	C
35	BA	28	A
35	BA	35	G
35	BA	42	G
35	BA	43	A
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	61	G
35	BA	63	U
35	BA	72	U
35	BA	75	G
35	BA	83	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	92	A
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	106	C
35	BA	116	C

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Mol	Chain	Res	Type
35	BA	118	A
35	BA	119	A
35	BA	121	G
35	BA	125	G
35	BA	129	C
35	BA	139(A)	G
35	BA	141	A
35	BA	142(A)	C
35	BA	155	U
35	BA	156	U
35	BA	157	U
35	BA	171	G
35	BA	174	C
35	BA	190	A
35	BA	196	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	212	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	227	A
35	BA	241	A
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(O)	C
35	BA	271(Y)	U
35	BA	272	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	276	A
35	BA	280	C
35	BA	283	A
35	BA	286	C

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Mol	Chain	Res	Type
35	BA	299	A
35	BA	310	A
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	336	C
35	BA	345	A
35	BA	346	A
35	BA	352	G
35	BA	353	G
35	BA	362	U
35	BA	363	G
35	BA	363(F)	A
35	BA	364	C
35	BA	365	C
35	BA	371	A
35	BA	372	G
35	BA	386	G
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	407	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	449	A
35	BA	455	C
35	BA	458	G
35	BA	475	U
35	BA	480	A
35	BA	481	G
35	BA	504	U
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	526	A
35	BA	527	C
35	BA	528	A

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Mol	Chain	Res	Type
35	BA	529	A
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	544	G
35	BA	548	A
35	BA	552	G
35	BA	555	U
35	BA	556	G
35	BA	562	U
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	587	C
35	BA	591	C
35	BA	592	G
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	620	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654	A
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(M)	C
35	BA	654(T)	C
35	BA	655	A
35	BA	675	A
35	BA	682	G
35	BA	686	G
35	BA	695	G
35	BA	699	A
35	BA	722	A

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Mol	Chain	Res	Type
35	BA	727	A
35	BA	729	G
35	BA	730	C
35	BA	740	U
35	BA	745	G
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	775	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	788	A
35	BA	789	A
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	793	A
35	BA	794	G
35	BA	800	A
35	BA	805	G
35	BA	811	U
35	BA	812	C
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	840	C
35	BA	841	A
35	BA	859	G
35	BA	878	A
35	BA	889	C
35	BA	896	A
35	BA	897	C
35	BA	900	A
35	BA	904	C
35	BA	910	A
35	BA	926	A
35	BA	932	G
35	BA	940	G
35	BA	941	A
35	BA	945	A

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Mol	Chain	Res	Type
35	BA	946	G
35	BA	959	A
35	BA	961	C
35	BA	962	G
35	BA	969	U
35	BA	974	G
35	BA	975	C
35	BA	980	A
35	BA	983	A
35	BA	985	C
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1005	C
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1021	A
35	BA	1022	G
35	BA	1023	U
35	BA	1026	U
35	BA	1033	U
35	BA	1034	G
35	BA	1039	G
35	BA	1044	G
35	BA	1045	A
35	BA	1047	G
35	BA	1048	A
35	BA	1049	C
35	BA	1052	C
35	BA	1053	C
35	BA	1054	A
35	BA	1058	G
35	BA	1062	G
35	BA	1067	A
35	BA	1070	A
35	BA	1073	A
35	BA	1076	C
35	BA	1088	A
35	BA	1090	U
35	BA	1109	C
35	BA	1111	A

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Mol	Chain	Res	Type
35	BA	1112	G
35	BA	1114	G
35	BA	1115	G
35	BA	1122	G
35	BA	1126	A
35	BA	1135	C
35	BA	1136	G
35	BA	1141	U
35	BA	1142	U
35	BA	1142(A)	A
35	BA	1143	A
35	BA	1146	C
35	BA	1155	A
35	BA	1157	G
35	BA	1158	C
35	BA	1159	U
35	BA	1170	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1204	A
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1213	A
35	BA	1220	A
35	BA	1221	C
35	BA	1224	C
35	BA	1238	G
35	BA	1247	A
35	BA	1248	G
35	BA	1250	G
35	BA	1251	C
35	BA	1252	G
35	BA	1255	U
35	BA	1256	G
35	BA	1266	G
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U

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Mol	Chain	Res	Type
35	BA	1287	A
35	BA	1300	U
35	BA	1302	A
35	BA	1314	C
35	BA	1326	U
35	BA	1329	U
35	BA	1330	C
35	BA	1332	G
35	BA	1342	A
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A
35	BA	1365	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1396	U
35	BA	1403	C
35	BA	1406	U
35	BA	1411	C
35	BA	1416	G
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1434	A
35	BA	1435	G
35	BA	1445	A
35	BA	1445(A)	C
35	BA	1453	U
35	BA	1455	G
35	BA	1459	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1476	C
35	BA	1477	A
35	BA	1478	G
35	BA	1482	G
35	BA	1484	G

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Mol	Chain	Res	Type
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1491	G
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1517	G
35	BA	1528(A)	A
35	BA	1541	G
35	BA	1542	A
35	BA	1544	A
35	BA	1553	A
35	BA	1554	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1615	C
35	BA	1616	A
35	BA	1618	A
35	BA	1634	A
35	BA	1640	C
35	BA	1644	C
35	BA	1648	C
35	BA	1668	A
35	BA	1674	G
35	BA	1678	G
35	BA	1698	A
35	BA	1699	G

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Mol	Chain	Res	Type
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1744	C
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1781	C
35	BA	1784	A
35	BA	1787	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1801	G
35	BA	1815	A
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1839	G
35	BA	1846	G
35	BA	1847	A
35	BA	1850	G
35	BA	1858	G
35	BA	1862	G
35	BA	1866	C
35	BA	1878	G
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1929	G
35	BA	1930	G
35	BA	1931	U
35	BA	1937	A
35	BA	1938	A
35	BA	1943	U

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Mol	Chain	Res	Type
35	BA	1944	U
35	BA	1945	G
35	BA	1948	G
35	BA	1955	U
35	BA	1960	A
35	BA	1963	U
35	BA	1964	G
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1987	G
35	BA	1993	U
35	BA	1997	G
35	BA	2004	G
35	BA	2021	C
35	BA	2022	U
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2065	C
35	BA	2069	G
35	BA	2076	U
35	BA	2100	G
35	BA	2103	C
35	BA	2104	G
35	BA	2112	G
35	BA	2116	G
35	BA	2118	U
35	BA	2127	G
35	BA	2131	G
35	BA	2132	U
35	BA	2133	G
35	BA	2134	A

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Mol	Chain	Res	Type
35	BA	2157	G
35	BA	2158	A
35	BA	2159	G
35	BA	2163	C
35	BA	2172	U
35	BA	2173	A
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2202	C
35	BA	2203	U
35	BA	2205	C
35	BA	2206	G
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2263	C
35	BA	2273	A
35	BA	2283	C
35	BA	2286	A
35	BA	2288	A
35	BA	2297	C
35	BA	2302	G
35	BA	2305	A
35	BA	2306	C
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G

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Mol	Chain	Res	Type
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G
35	BA	2346	A
35	BA	2347	C
35	BA	2348	U
35	BA	2349	G
35	BA	2350	C
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2406	U
35	BA	2423	U
35	BA	2424	C
35	BA	2425	A
35	BA	2427	C
35	BA	2428	G
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2434	A
35	BA	2435	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2461	C
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2473	U
35	BA	2474	C
35	BA	2475	C
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2484	G
35	BA	2502	G
35	BA	2503	A
35	BA	2505	G
35	BA	2519	U
35	BA	2520	C

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Mol	Chain	Res	Type
35	BA	2524	G
35	BA	2529	G
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A
35	BA	2567	G
35	BA	2572	A
35	BA	2577	A
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2609	U
35	BA	2610	C
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2646	C
35	BA	2655	G
35	BA	2657	A
35	BA	2658	C
35	BA	2670	A
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2706	G
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2726	U
35	BA	2733	A
35	BA	2750	A
35	BA	2751	G
35	BA	2755	C
35	BA	2756	U
35	BA	2757	A
35	BA	2758	A
35	BA	2762	G
35	BA	2764	A

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Mol	Chain	Res	Type
35	BA	2765	A
35	BA	2766	G
35	BA	2778	A
35	BA	2779	U
35	BA	2780	G
35	BA	2790	A
35	BA	2791	C
35	BA	2796	U
35	BA	2799	C
35	BA	2801	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2824	C
35	BA	2833	G
35	BA	2834	G
35	BA	2836	U
35	BA	2849	U
35	BA	2872	G
35	BA	2879	C
35	BA	2880	C
35	BA	2892	A
35	BA	2894	G
35	BA	2895	U
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	25	A
36	BB	33	G
36	BB	35	U
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	56	G
36	BB	67	G
36	BB	73	A

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Mol	Chain	Res	Type
36	BB	81	G
36	BB	82	G
36	BB	88	C
36	BB	89	G
36	BB	90	A
36	BB	103	G
36	BB	104	U
36	BB	110	G
36	BB	113	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	33	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	60	A
1	CA	61	G
1	CA	62	U
1	CA	81	U
1	CA	88	A
1	CA	89	C
1	CA	90	U
1	CA	91	C
1	CA	97	G
1	CA	98	G
1	CA	101	A
1	CA	104	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	129	U
1	CA	129(A)	G
1	CA	131	C
1	CA	144	G
1	CA	146	G
1	CA	147	G
1	CA	149	A
1	CA	160	A
1	CA	163	C
1	CA	181	G

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Mol	Chain	Res	Type
1	CA	182	U
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	198	G
1	CA	202	U
1	CA	203	U
1	CA	204	U
1	CA	216	G
1	CA	243	A
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	268	C
1	CA	281	G
1	CA	289	G
1	CA	316	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	344	A
1	CA	345	C
1	CA	346	G
1	CA	350	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	397	A
1	CA	398	C
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	428	G
1	CA	429	U
1	CA	430	A

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Mol	Chain	Res	Type
1	CA	435	C
1	CA	437	U
1	CA	439	A
1	CA	444	C
1	CA	452	A
1	CA	460	G
1	CA	461	A
1	CA	471	G
1	CA	481	G
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	547	A
1	CA	559	A
1	CA	560	U
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	588	G
1	CA	596	C
1	CA	631	G
1	CA	632	A
1	CA	650	G
1	CA	653	A
1	CA	665	A
1	CA	682	G
1	CA	683	G
1	CA	686	U

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Mol	Chain	Res	Type
1	CA	687	A
1	CA	688	G
1	CA	704	A
1	CA	721	G
1	CA	722	A
1	CA	723	U
1	CA	724	G
1	CA	728	A
1	CA	731	G
1	CA	744	C
1	CA	748	C
1	CA	755	G
1	CA	777	A
1	CA	793	U
1	CA	794	A
1	CA	813	U
1	CA	816	A
1	CA	817	C
1	CA	828	A
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	858	G
1	CA	859	A
1	CA	867	G
1	CA	874	G
1	CA	895	G
1	CA	907	A
1	CA	914	A
1	CA	921	U
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	951	G
1	CA	960	U
1	CA	961	U
1	CA	968	A
1	CA	969	A
1	CA	974	A
1	CA	975	A
1	CA	976	G

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Mol	Chain	Res	Type
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	981	U
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	997	U
1	CA	1003	G
1	CA	1004	A
1	CA	1005	A
1	CA	1010	G
1	CA	1027	C
1	CA	1030	C
1	CA	1030(B)	C
1	CA	1050	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1129	C
1	CA	1130	A
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1154	G
1	CA	1159	U
1	CA	1184	G
1	CA	1187	G
1	CA	1196	U
1	CA	1197	G
1	CA	1199	U

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Mol	Chain	Res	Type
1	CA	1202	G
1	CA	1212	U
1	CA	1214	C
1	CA	1217	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1249	C
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1298	C
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1317	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1336	C
1	CA	1337	G
1	CA	1338	G
1	CA	1346	A
1	CA	1348	U
1	CA	1354	C
1	CA	1363	C
1	CA	1364	U
1	CA	1365	G
1	CA	1370	G
1	CA	1379	G
1	CA	1394	A
1	CA	1397	C

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Mol	Chain	Res	Type
1	CA	1398	A
1	CA	1404	C
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1490	C
1	CA	1492	A
1	CA	1493	A
1	CA	1494	G
1	CA	1498	U
1	CA	1499	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
22	CV	3	C
22	CV	4	G
22	CV	5	G
22	CV	17	C
22	CV	17(A)	U
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	47	U
22	CV	48	C
22	CV	63	G
22	CV	75	C
22	CV	76	A
22	CW	4	G
22	CW	5	G
22	CW	7	G
22	CW	9	G
22	CW	10	G

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Mol	Chain	Res	Type
22	CW	15	G
22	CW	18	U
22	CW	19	G
22	CW	20	G
22	CW	21	U
22	CW	22	A
22	CW	48	U
22	CW	49	C
22	CW	53	G
22	CW	66	C
22	CW	72	C
22	CW	73	A
22	CW	74	A
22	CW	75	C
23	CX	12	A
23	CX	13	A
23	CX	14	A
23	CX	19	U
35	DA	9	U
35	DA	18	C
35	DA	28	A
35	DA	35	G
35	DA	42	G
35	DA	43	A
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	61	G
35	DA	63	U
35	DA	72	U
35	DA	75	G
35	DA	83	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	92	A
35	DA	94	C
35	DA	95	G
35	DA	100	G
35	DA	102	G
35	DA	106	C

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Mol	Chain	Res	Type
35	DA	116	C
35	DA	118	A
35	DA	119	A
35	DA	121	G
35	DA	125	G
35	DA	129	C
35	DA	139(A)	G
35	DA	141	A
35	DA	142(A)	C
35	DA	155	U
35	DA	156	U
35	DA	157	U
35	DA	171	G
35	DA	174	C
35	DA	190	A
35	DA	196	A
35	DA	199	A
35	DA	204	A
35	DA	205	G
35	DA	212	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	227	A
35	DA	241	A
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(O)	C
35	DA	271(Y)	U
35	DA	272	G
35	DA	272(A)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	276	A
35	DA	280	C
35	DA	283	A

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Mol	Chain	Res	Type
35	DA	286	C
35	DA	299	A
35	DA	310	A
35	DA	311	A
35	DA	329	G
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	336	C
35	DA	345	A
35	DA	346	A
35	DA	352	G
35	DA	353	G
35	DA	362	U
35	DA	363	G
35	DA	363(F)	A
35	DA	364	C
35	DA	365	C
35	DA	371	A
35	DA	372	G
35	DA	386	G
35	DA	396	G
35	DA	405	U
35	DA	406	G
35	DA	407	G
35	DA	411	G
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	449	A
35	DA	455	C
35	DA	458	G
35	DA	475	U
35	DA	480	A
35	DA	481	G
35	DA	504	U
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	526	A
35	DA	527	C

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Mol	Chain	Res	Type
35	DA	528	A
35	DA	529	A
35	DA	530	G
35	DA	531	C
35	DA	532	A
35	DA	544	G
35	DA	548	A
35	DA	552	G
35	DA	555	U
35	DA	556	G
35	DA	562	U
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	587	C
35	DA	591	C
35	DA	592	G
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614(B)	G
35	DA	615	G
35	DA	620	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	651	G
35	DA	653	A
35	DA	654	A
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(M)	C
35	DA	654(T)	C
35	DA	655	A
35	DA	675	A
35	DA	682	G
35	DA	686	G
35	DA	695	G
35	DA	699	A

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Mol	Chain	Res	Type
35	DA	722	A
35	DA	727	A
35	DA	729	G
35	DA	730	C
35	DA	740	U
35	DA	745	G
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	775	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	788	A
35	DA	789	A
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	793	A
35	DA	794	G
35	DA	800	A
35	DA	805	G
35	DA	811	U
35	DA	812	C
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	840	C
35	DA	841	A
35	DA	859	G
35	DA	878	A
35	DA	889	C
35	DA	896	A
35	DA	897	C
35	DA	900	A
35	DA	904	C
35	DA	910	A
35	DA	926	A
35	DA	932	G
35	DA	940	G
35	DA	941	A

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Mol	Chain	Res	Type
35	DA	945	A
35	DA	946	G
35	DA	959	A
35	DA	961	C
35	DA	962	G
35	DA	969	U
35	DA	974	G
35	DA	975	C
35	DA	980	A
35	DA	983	A
35	DA	985	C
35	DA	990	A
35	DA	991	C
35	DA	996	A
35	DA	1005	C
35	DA	1011	G
35	DA	1012	U
35	DA	1013	C
35	DA	1021	A
35	DA	1022	G
35	DA	1023	U
35	DA	1026	U
35	DA	1033	U
35	DA	1034	G
35	DA	1039	G
35	DA	1044	G
35	DA	1045	A
35	DA	1047	G
35	DA	1048	A
35	DA	1049	C
35	DA	1052	C
35	DA	1053	C
35	DA	1054	A
35	DA	1058	G
35	DA	1062	G
35	DA	1067	A
35	DA	1070	A
35	DA	1073	A
35	DA	1076	C
35	DA	1088	A
35	DA	1090	U
35	DA	1109	C

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Mol	Chain	Res	Type
35	DA	1111	A
35	DA	1112	G
35	DA	1114	G
35	DA	1115	G
35	DA	1122	G
35	DA	1126	A
35	DA	1135	C
35	DA	1136	G
35	DA	1141	U
35	DA	1142	U
35	DA	1142(A)	A
35	DA	1143	A
35	DA	1146	C
35	DA	1155	A
35	DA	1157	G
35	DA	1158	C
35	DA	1159	U
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1204	A
35	DA	1210	A
35	DA	1211	U
35	DA	1212	G
35	DA	1213	A
35	DA	1220	A
35	DA	1221	C
35	DA	1224	C
35	DA	1238	G
35	DA	1247	A
35	DA	1248	G
35	DA	1250	G
35	DA	1251	C
35	DA	1252	G
35	DA	1255	U
35	DA	1256	G
35	DA	1266	G
35	DA	1271	G
35	DA	1272	A

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Mol	Chain	Res	Type
35	DA	1273	U
35	DA	1287	A
35	DA	1300	U
35	DA	1302	A
35	DA	1314	C
35	DA	1326	U
35	DA	1329	U
35	DA	1330	C
35	DA	1332	G
35	DA	1342	A
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1365	A
35	DA	1379	A
35	DA	1380	G
35	DA	1384	A
35	DA	1385	G
35	DA	1386	C
35	DA	1396	U
35	DA	1403	C
35	DA	1406	U
35	DA	1411	C
35	DA	1416	G
35	DA	1420	U
35	DA	1421	G
35	DA	1427	A
35	DA	1428	C
35	DA	1434	A
35	DA	1435	G
35	DA	1445	A
35	DA	1445(A)	C
35	DA	1453	U
35	DA	1455	G
35	DA	1459	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1476	C
35	DA	1477	A
35	DA	1478	G
35	DA	1482	G

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Mol	Chain	Res	Type
35	DA	1484	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1491	G
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1496	A
35	DA	1497	U
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1517	G
35	DA	1528(A)	A
35	DA	1541	G
35	DA	1542	A
35	DA	1544	A
35	DA	1553	A
35	DA	1554	A
35	DA	1559	G
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1588	C
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1615	C
35	DA	1616	A
35	DA	1618	A
35	DA	1634	A
35	DA	1640	C
35	DA	1644	C
35	DA	1648	C
35	DA	1668	A
35	DA	1674	G
35	DA	1678	G
35	DA	1698	A

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Mol	Chain	Res	Type
35	DA	1699	G
35	DA	1718	G
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G
35	DA	1744	C
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1781	C
35	DA	1784	A
35	DA	1787	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1801	G
35	DA	1815	A
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1829	A
35	DA	1839	G
35	DA	1846	G
35	DA	1847	A
35	DA	1850	G
35	DA	1858	G
35	DA	1862	G
35	DA	1866	C
35	DA	1878	G
35	DA	1885	A
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1906	G
35	DA	1912	A
35	DA	1929	G
35	DA	1930	G
35	DA	1931	U
35	DA	1937	A
35	DA	1938	A

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Mol	Chain	Res	Type
35	DA	1943	U
35	DA	1944	U
35	DA	1945	G
35	DA	1948	G
35	DA	1955	U
35	DA	1960	A
35	DA	1963	U
35	DA	1964	G
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1993	U
35	DA	1997	G
35	DA	2004	G
35	DA	2021	C
35	DA	2022	U
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2065	C
35	DA	2069	G
35	DA	2076	U
35	DA	2100	G
35	DA	2103	C
35	DA	2104	G
35	DA	2112	G
35	DA	2116	G
35	DA	2118	U
35	DA	2127	G
35	DA	2132	U
35	DA	2133	G
35	DA	2134	A
35	DA	2157	G

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Mol	Chain	Res	Type
35	DA	2158	A
35	DA	2159	G
35	DA	2163	C
35	DA	2172	U
35	DA	2173	A
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2202	C
35	DA	2203	U
35	DA	2205	C
35	DA	2206	G
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2263	C
35	DA	2273	A
35	DA	2283	C
35	DA	2286	A
35	DA	2288	A
35	DA	2297	C
35	DA	2302	G
35	DA	2305	A
35	DA	2306	C
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A
35	DA	2313	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2334	G

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Mol	Chain	Res	Type
35	DA	2336	A
35	DA	2345	G
35	DA	2346	A
35	DA	2347	C
35	DA	2348	U
35	DA	2349	G
35	DA	2350	C
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2423	U
35	DA	2424	C
35	DA	2425	A
35	DA	2427	C
35	DA	2428	G
35	DA	2429	G
35	DA	2430	A
35	DA	2431	U
35	DA	2434	A
35	DA	2435	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2461	C
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2473	U
35	DA	2474	C
35	DA	2475	C
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2484	G
35	DA	2502	G
35	DA	2503	A
35	DA	2505	G
35	DA	2519	U
35	DA	2520	C
35	DA	2524	G
35	DA	2529	G

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Mol	Chain	Res	Type
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2572	A
35	DA	2573	C
35	DA	2577	A
35	DA	2585	U
35	DA	2586	C
35	DA	2602	A
35	DA	2609	U
35	DA	2610	C
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2646	C
35	DA	2655	G
35	DA	2657	A
35	DA	2658	C
35	DA	2670	A
35	DA	2673	G
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712	U
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2726	U
35	DA	2733	A
35	DA	2750	A
35	DA	2751	G
35	DA	2755	C
35	DA	2756	U
35	DA	2757	A
35	DA	2758	A
35	DA	2762	G
35	DA	2764	A
35	DA	2765	A
35	DA	2766	G

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Mol	Chain	Res	Type
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2790	A
35	DA	2791	C
35	DA	2796	U
35	DA	2799	C
35	DA	2801	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2824	C
35	DA	2833	G
35	DA	2834	G
35	DA	2836	U
35	DA	2849	U
35	DA	2872	G
35	DA	2879	C
35	DA	2880	C
35	DA	2892	A
35	DA	2894	G
35	DA	2895	U
36	DB	8	U
36	DB	13	A
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	25	A
36	DB	33	G
36	DB	35	U
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	56	G
36	DB	67	G
36	DB	73	A
36	DB	81	G
36	DB	82	G

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Mol	Chain	Res	Type
36	DB	88	C
36	DB	89	G
36	DB	90	A
36	DB	103	G
36	DB	104	U
36	DB	110	G
36	DB	113	G

All (232) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	203	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	315	A
1	AA	328	C
1	AA	344	A
1	AA	353	A
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	532	A
1	AA	533	A
1	AA	535	A
1	AA	560	U
1	AA	575	G
1	AA	576	G
1	AA	631	G
1	AA	703	G
1	AA	812	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1101	A
1	AA	1129	C

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Mol	Chain	Res	Type
1	AA	1201	A
1	AA	1225	A
1	AA	1226	C
1	AA	1285	A
1	AA	1299	A
1	AA	1300	G
1	AA	1337	G
1	AA	1347	G
1	AA	1364	U
1	AA	1493	A
1	AA	1498	U
1	AA	1505	G
22	AW	73	A
23	AX	11	U
35	BA	27	G
35	BA	49	A
35	BA	74	A
35	BA	120	U
35	BA	128	C
35	BA	221	A
35	BA	226	G
35	BA	329	G
35	BA	331	A
35	BA	332	A
35	BA	363(F)	A
35	BA	474	G
35	BA	503	A
35	BA	603	A
35	BA	614(A)	U
35	BA	614(C)	A
35	BA	728	G
35	BA	739	G
35	BA	752	A
35	BA	764	A
35	BA	961	C
35	BA	1020	A
35	BA	1022	G
35	BA	1052	C
35	BA	1057	A
35	BA	1156	A
35	BA	1173	G
35	BA	1210	A

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Mol	Chain	Res	Type
35	BA	1212	G
35	BA	1237	A
35	BA	1301	A
35	BA	1378	A
35	BA	1427	A
35	BA	1453	U
35	BA	1494	A
35	BA	1541	G
35	BA	1558	A
35	BA	1799	G
35	BA	1819	A
35	BA	1838	C
35	BA	1846	G
35	BA	1930	G
35	BA	1943	U
35	BA	1948	G
35	BA	1992	G
35	BA	2033	A
35	BA	2111	C
35	BA	2126	A
35	BA	2172	U
35	BA	2198	A
35	BA	2225	A
35	BA	2282	G
35	BA	2296	U
35	BA	2344	U
35	BA	2345	G
35	BA	2422	A
35	BA	2425	A
35	BA	2428	G
35	BA	2481	G
35	BA	2611	U
35	BA	2689	U
35	BA	2690	C
35	BA	2756	U
35	BA	2762	G
35	BA	2778	A
35	BA	2779	U
35	BA	2799	C
35	BA	2801(A)	A
35	BA	2835	A
35	BA	2849	U

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Mol	Chain	Res	Type
35	BA	2891	G
1	CA	30	U
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	203	U
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	315	A
1	CA	328	C
1	CA	344	A
1	CA	353	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	535	A
1	CA	560	U
1	CA	575	G
1	CA	576	G
1	CA	631	G
1	CA	703	G
1	CA	812	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1101	A
1	CA	1129	C
1	CA	1201	A
1	CA	1225	A
1	CA	1226	C
1	CA	1285	A
1	CA	1299	A
1	CA	1300	G
1	CA	1337	G
1	CA	1347	G
1	CA	1364	U

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Mol	Chain	Res	Type
1	CA	1493	A
1	CA	1498	U
22	CW	73	A
23	CX	11	U
35	DA	27	G
35	DA	49	A
35	DA	74	A
35	DA	120	U
35	DA	128	C
35	DA	221	A
35	DA	226	G
35	DA	329	G
35	DA	331	A
35	DA	332	A
35	DA	363(F)	A
35	DA	474	G
35	DA	503	A
35	DA	603	A
35	DA	614(A)	U
35	DA	614(C)	A
35	DA	728	G
35	DA	739	G
35	DA	752	A
35	DA	764	A
35	DA	961	C
35	DA	1020	A
35	DA	1022	G
35	DA	1052	C
35	DA	1057	A
35	DA	1156	A
35	DA	1173	G
35	DA	1210	A
35	DA	1212	G
35	DA	1237	A
35	DA	1301	A
35	DA	1378	A
35	DA	1427	A
35	DA	1453	U
35	DA	1494	A
35	DA	1541	G
35	DA	1558	A
35	DA	1799	G

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Mol	Chain	Res	Type
35	DA	1819	A
35	DA	1838	C
35	DA	1846	G
35	DA	1930	G
35	DA	1943	U
35	DA	1948	G
35	DA	1992	G
35	DA	2033	A
35	DA	2111	C
35	DA	2126	A
35	DA	2172	U
35	DA	2198	A
35	DA	2225	A
35	DA	2282	G
35	DA	2296	U
35	DA	2344	U
35	DA	2345	G
35	DA	2422	A
35	DA	2425	A
35	DA	2428	G
35	DA	2481	G
35	DA	2611	U
35	DA	2689	U
35	DA	2690	C
35	DA	2756	U
35	DA	2762	G
35	DA	2778	A
35	DA	2779	U
35	DA	2799	C
35	DA	2801(A)	A
35	DA	2835	A
35	DA	2849	U
35	DA	2891	G

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

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	$\# Z > 2$
22	5MU	AV	54	22	11,21,23	1.33	2 (18%)	15,30,35	3.54	2 (13%)
22	5MU	AW	55	22	11,21,23	1.31	2 (18%)	15,30,35	3.59	2 (13%)
22	5MU	CV	54	22	11,21,23	1.26	1 (9%)	15,30,35	3.57	2 (13%)
22	5MU	CW	55	22	11,21,23	1.31	1 (9%)	15,30,35	3.56	2 (13%)

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
22	5MU	AV	54	22	-	0/3/25/26	0/2/2/2
22	5MU	AW	55	22	-	0/3/25/26	0/2/2/2
22	5MU	CV	54	22	-	0/3/25/26	0/2/2/2
22	5MU	CW	55	22	-	0/3/25/26	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AW	55	5MU	C6-N1	2.00	1.38	1.35
22	AV	54	5MU	C6-N1	2.02	1.38	1.35
22	CV	54	5MU	C4-N3	3.01	1.38	1.33
22	AV	54	5MU	C4-N3	3.09	1.38	1.33
22	CW	55	5MU	C4-N3	3.13	1.38	1.33
22	AW	55	5MU	C4-N3	3.22	1.39	1.33

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AW	55	5MU	C5-C4-N3	-3.09	115.19	123.12
22	CV	54	5MU	C5-C4-N3	-3.09	115.20	123.12
22	CW	55	5MU	C5-C4-N3	-3.07	115.23	123.12
22	AV	54	5MU	C5-C4-N3	-2.96	115.52	123.12
22	AV	54	5MU	C4-N3-C2	13.28	127.29	114.14
22	CW	55	5MU	C4-N3-C2	13.32	127.34	114.14
22	CV	54	5MU	C4-N3-C2	13.34	127.36	114.14
22	AW	55	5MU	C4-N3-C2	13.43	127.44	114.14

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AV	54	5MU	2	0
22	AW	55	5MU	1	0
22	CV	54	5MU	1	0
22	CW	55	5MU	2	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 10 are monoatomic - leaving 4 for Mogul analysis.

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$
61	FUA	AY	702	-	37,40,40	1.70	6 (16%)	45,64,64	1.66	7 (15%)
62	GDP	AY	703	60	23,30,30	1.36	3 (13%)	30,47,47	1.81	7 (23%)
61	FUA	CY	702	-	37,40,40	1.72	6 (16%)	45,64,64	1.53	7 (15%)
62	GDP	CY	703	60	23,30,30	1.41	3 (13%)	30,47,47	2.13	10 (33%)

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
61	FUA	AY	702	-	-	0/10/92/92	0/4/4/4
62	GDP	AY	703	60	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
61	FUA	CY	702	-	-	0/10/92/92	0/4/4/4
62	GDP	CY	703	60	-	0/12/32/32	0/3/3/3

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	CY	702	FUA	C23-C22	-6.14	1.39	1.51
61	AY	702	FUA	C23-C22	-5.97	1.39	1.51
61	AY	702	FUA	C23-C24	-4.18	1.39	1.53
61	CY	702	FUA	C23-C24	-4.17	1.39	1.53
61	CY	702	FUA	C24-C25	-3.98	1.39	1.50
61	AY	702	FUA	C24-C25	-3.84	1.39	1.50
61	AY	702	FUA	C14-C8	-2.80	1.53	1.58
61	CY	702	FUA	C14-C8	-2.77	1.53	1.58
61	CY	702	FUA	C10-C9	-2.15	1.53	1.57
61	AY	702	FUA	C10-C9	-2.11	1.53	1.57
61	AY	702	FUA	C25-C26	2.26	1.39	1.32
62	AY	703	GDP	O4'-C1'	2.34	1.44	1.41
61	CY	702	FUA	C25-C26	2.43	1.39	1.32
62	CY	703	GDP	O4'-C1'	2.69	1.44	1.41
62	CY	703	GDP	C2-N1	2.83	1.40	1.35
62	AY	703	GDP	C2-N1	3.01	1.40	1.35
62	AY	703	GDP	C6-N1	3.81	1.40	1.33
62	CY	703	GDP	C6-N1	4.14	1.40	1.33

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	CY	703	GDP	N3-C2-N1	-4.78	120.16	127.44
62	AY	703	GDP	N3-C2-N1	-4.77	120.17	127.44
61	AY	702	FUA	C13-C12-C11	-4.51	105.84	111.95
62	CY	703	GDP	PA-O3A-PB	-4.34	118.11	132.67
62	CY	703	GDP	C2'-C1'-N9	-4.25	107.79	114.29
61	CY	702	FUA	C16-O2-C31	-4.01	110.67	117.14
62	AY	703	GDP	PA-O3A-PB	-3.97	119.36	132.67
61	AY	702	FUA	C16-O2-C31	-3.73	111.12	117.14
62	CY	703	GDP	C4'-O4'-C1'	-3.73	105.62	109.72
62	AY	703	GDP	C5-C6-N1	-3.63	118.63	123.59
62	CY	703	GDP	C5-C6-N1	-3.51	118.78	123.59
62	AY	703	GDP	C4'-O4'-C1'	-3.46	105.92	109.72
61	AY	702	FUA	C8-C9-C10	-3.44	112.82	116.45
62	CY	703	GDP	C2'-C3'-C4'	-3.41	95.61	102.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	CY	702	FUA	C13-C12-C11	-3.31	107.47	111.95
62	CY	703	GDP	C4-C5-N7	-3.07	106.65	109.48
61	CY	702	FUA	C8-C9-C10	-2.89	113.40	116.45
62	AY	703	GDP	C4-C5-N7	-2.64	107.05	109.48
62	CY	703	GDP	O3B-PB-O2B	2.01	115.03	107.38
62	AY	703	GDP	O4'-C1'-N9	2.07	112.43	108.10
61	AY	702	FUA	C28-C26-C27	2.08	119.75	114.64
61	CY	702	FUA	C28-C26-C27	2.15	119.93	114.64
62	CY	703	GDP	N2-C2-N1	2.19	120.83	117.20
61	AY	702	FUA	C23-C24-C25	2.20	117.46	111.69
61	CY	702	FUA	O2-C31-C32	2.22	115.29	111.10
62	CY	703	GDP	C6-N1-C2	2.39	119.25	115.94
62	AY	703	GDP	C6-N1-C2	2.40	119.27	115.94
61	AY	702	FUA	O2-C31-C32	2.87	116.52	111.10
61	CY	702	FUA	C23-C24-C25	2.94	119.39	111.69
61	CY	702	FUA	C24-C23-C22	3.78	121.43	112.02
61	AY	702	FUA	C24-C23-C22	4.85	124.11	112.02

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 51 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
61	AY	702	FUA	13	0
62	AY	703	GDP	8	0
61	CY	702	FUA	22	0
62	CY	703	GDP	8	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
9	AI	2

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Mol	Chain	Number of breaks
9	CI	2
45	BL	1
41	DG	1
41	BG	1
45	DL	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DL	30:UNK	C	52:UNK	N	38.40
1	BL	30:UNK	C	52:UNK	N	36.36
1	BG	112:PRO	C	113:ARG	N	3.27
1	DG	112:PRO	C	113:ARG	N	3.05
1	CI	53:VAL	C	54:ASP	N	2.98
1	AI	53:VAL	C	54:ASP	N	2.92
1	AI	104:ARG	C	105:ASP	N	2.54
1	CI	104:ARG	C	105:ASP	N	2.54

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	-0.22	22 (1%) 76 64	23, 62, 148, 220	0
1	CA	1504/1522 (98%)	-0.46	15 (0%) 84 73	26, 65, 148, 220	0
2	AB	235/256 (91%)	-0.28	4 (1%) 73 59	40, 81, 147, 159	0
2	CB	235/256 (91%)	-0.30	1 (0%) 93 88	43, 82, 147, 158	0
3	AC	207/239 (86%)	-0.38	0 100 100	31, 72, 113, 118	0
3	CC	207/239 (86%)	-0.35	0 100 100	33, 75, 115, 121	0
4	AD	208/209 (99%)	-0.36	0 100 100	47, 79, 115, 124	0
4	CD	208/209 (99%)	-0.40	0 100 100	48, 80, 116, 125	0
5	AE	151/162 (93%)	-0.46	1 (0%) 89 81	25, 50, 90, 112	0
5	CE	151/162 (93%)	-0.43	1 (0%) 89 81	27, 52, 91, 112	0
6	AF	101/101 (100%)	-0.41	0 100 100	55, 85, 110, 118	0
6	CF	101/101 (100%)	-0.26	0 100 100	60, 87, 111, 118	0
7	AG	155/156 (99%)	-0.35	1 (0%) 90 83	51, 79, 109, 136	0
7	CG	155/156 (99%)	-0.36	2 (1%) 79 66	55, 81, 111, 136	0
8	AH	138/138 (100%)	-0.38	0 100 100	32, 54, 75, 82	0
8	CH	138/138 (100%)	-0.46	0 100 100	35, 56, 76, 83	0
9	AI	127/128 (99%)	-0.20	1 (0%) 87 78	50, 83, 114, 120	0
9	CI	127/128 (99%)	-0.34	1 (0%) 87 78	53, 86, 114, 120	0
10	AJ	99/105 (94%)	0.10	6 (6%) 25 16	47, 100, 155, 159	0
10	CJ	99/105 (94%)	0.20	3 (3%) 54 38	50, 102, 156, 159	0
11	AK	119/129 (92%)	-0.31	2 (1%) 73 59	42, 59, 100, 123	0
11	CK	119/129 (92%)	-0.25	1 (0%) 87 78	44, 60, 102, 124	0
12	AL	125/132 (94%)	-0.46	0 100 100	38, 57, 87, 127	0
12	CL	125/132 (94%)	-0.40	2 (1%) 74 61	39, 58, 88, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	-0.12	7 (5%) 28 19	68, 111, 139, 171	0
13	CM	125/126 (99%)	-0.14	8 (6%) 23 15	70, 112, 139, 172	0
14	AN	60/61 (98%)	-0.38	1 (1%) 73 59	39, 59, 92, 97	0
14	CN	60/61 (98%)	-0.39	0 100 100	44, 61, 93, 98	0
15	AO	88/89 (98%)	-0.54	0 100 100	35, 61, 91, 100	0
15	CO	88/89 (98%)	-0.52	0 100 100	38, 61, 94, 100	0
16	AP	84/88 (95%)	-0.42	0 100 100	54, 73, 96, 131	0
16	CP	84/88 (95%)	-0.39	1 (1%) 81 69	57, 74, 98, 132	0
17	AQ	100/105 (95%)	-0.53	0 100 100	43, 64, 89, 98	0
17	CQ	100/105 (95%)	-0.47	0 100 100	46, 66, 90, 97	0
18	AR	70/88 (79%)	-0.39	1 (1%) 78 65	42, 69, 94, 108	0
18	CR	70/88 (79%)	-0.48	1 (1%) 78 65	45, 70, 95, 109	0
19	AS	79/93 (84%)	0.00	2 (2%) 61 46	77, 106, 144, 149	0
19	CS	79/93 (84%)	0.18	4 (5%) 32 22	78, 107, 144, 150	0
20	AT	99/106 (93%)	-0.35	0 100 100	63, 84, 126, 129	0
20	CT	99/106 (93%)	-0.34	0 100 100	64, 85, 127, 129	0
21	AU	25/27 (92%)	-0.21	0 100 100	63, 82, 118, 122	0
21	CU	25/27 (92%)	0.14	0 100 100	66, 86, 120, 123	0
22	AV	76/77 (98%)	-0.43	0 100 100	32, 67, 110, 127	0
22	AW	76/77 (98%)	-0.38	1 (1%) 79 66	71, 168, 192, 201	0
22	CV	76/77 (98%)	-0.56	0 100 100	47, 84, 121, 151	0
22	CW	76/77 (98%)	-0.32	1 (1%) 79 66	78, 176, 200, 210	0
23	AX	11/25 (44%)	0.12	0 100 100	28, 94, 149, 166	0
23	CX	11/25 (44%)	0.05	0 100 100	45, 106, 156, 168	0
24	AY	667/691 (96%)	-0.15	9 (1%) 79 66	61, 99, 140, 150	0
24	CY	667/691 (96%)	0.10	23 (3%) 49 35	73, 108, 148, 161	0
25	B0	84/85 (98%)	0.07	6 (7%) 19 12	67, 82, 140, 163	0
25	D0	84/85 (98%)	0.39	9 (10%) 8 6	69, 84, 141, 163	0
26	B1	94/98 (95%)	-0.43	1 (1%) 82 70	41, 70, 118, 128	0
26	D1	94/98 (95%)	-0.32	0 100 100	53, 80, 123, 131	0
27	B2	71/72 (98%)	-0.28	2 (2%) 56 42	77, 116, 150, 161	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D2	71/72 (98%)	-0.12	2 (2%) 56 42	95, 119, 146, 163	0
28	B3	60/60 (100%)	-0.06	1 (1%) 73 59	63, 88, 114, 135	0
28	D3	60/60 (100%)	0.00	2 (3%) 50 36	64, 89, 114, 134	0
29	B4	58/71 (81%)	0.10	3 (5%) 31 22	76, 135, 220, 222	0
29	D4	58/71 (81%)	0.30	7 (12%) 6 5	77, 137, 220, 222	0
30	B5	59/60 (98%)	-0.05	3 (5%) 32 22	52, 80, 153, 172	0
30	D5	59/60 (98%)	0.00	4 (6%) 20 13	52, 80, 153, 172	0
31	B6	50/54 (92%)	0.03	2 (4%) 42 29	56, 89, 107, 117	0
31	D6	50/54 (92%)	-0.23	1 (2%) 68 54	56, 90, 108, 117	0
32	B7	49/49 (100%)	-0.31	2 (4%) 41 29	47, 64, 119, 132	0
32	D7	49/49 (100%)	-0.36	0 100 100	47, 64, 120, 132	0
33	B8	64/65 (98%)	-0.34	1 (1%) 74 61	63, 75, 105, 125	0
33	D8	64/65 (98%)	-0.23	1 (1%) 74 61	65, 76, 105, 126	0
34	B9	37/37 (100%)	-0.40	0 100 100	60, 71, 85, 89	0
34	D9	37/37 (100%)	-0.27	1 (2%) 58 43	60, 73, 87, 91	0
35	BA	2901/2915 (99%)	-0.34	27 (0%) 85 75	30, 76, 162, 221	0
35	DA	2901/2915 (99%)	-0.47	32 (1%) 82 70	29, 77, 162, 221	0
36	BB	119/122 (97%)	-0.48	0 100 100	65, 106, 138, 183	0
36	DB	119/122 (97%)	-0.65	0 100 100	66, 108, 138, 183	0
37	BC	228/229 (99%)	-0.10	4 (1%) 71 58	42, 97, 147, 160	0
37	DC	228/229 (99%)	0.11	12 (5%) 30 21	43, 98, 148, 162	0
38	BD	275/276 (99%)	-0.49	0 100 100	31, 52, 82, 101	0
38	DD	275/276 (99%)	-0.48	1 (0%) 93 88	32, 52, 82, 101	0
39	BE	205/206 (99%)	-0.30	4 (1%) 68 54	44, 77, 128, 135	0
39	DE	205/206 (99%)	-0.26	3 (1%) 76 64	44, 77, 128, 134	0
40	BF	208/210 (99%)	0.03	10 (4%) 34 24	53, 110, 166, 177	0
40	DF	208/210 (99%)	0.01	12 (5%) 26 18	53, 111, 166, 176	0
41	BG	181/182 (99%)	-0.24	4 (2%) 65 50	63, 95, 131, 143	0
41	DG	181/182 (99%)	-0.01	5 (2%) 56 42	86, 110, 137, 151	0
42	BH	167/180 (92%)	0.08	6 (3%) 46 33	81, 117, 143, 159	0
42	DH	167/180 (92%)	0.07	3 (1%) 71 58	81, 118, 143, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BJ	0/173	-	-	-	-
43	DJ	0/173	-	-	-	-
44	BK	140/147 (95%)	1.97	61 (43%) 0 0	162, 180, 186, 188	0
44	DK	140/147 (95%)	1.69	49 (35%) 0 0	162, 180, 186, 187	0
45	BL	0/125	-	-	-	-
45	BM	0/125	-	-	-	-
45	Bl	0/125	-	-	-	-
45	Bm	0/125	-	-	-	-
45	DL	0/125	-	-	-	-
45	DM	0/125	-	-	-	-
45	Dl	0/125	-	-	-	-
45	Dm	0/125	-	-	-	-
46	BN	139/140 (99%)	-0.27	2 (1%) 78 65	60, 91, 132, 137	0
46	DN	139/140 (99%)	-0.23	1 (0%) 89 81	61, 91, 132, 137	0
47	BO	122/122 (100%)	-0.43	0 100 100	35, 60, 73, 86	0
47	DO	122/122 (100%)	-0.41	0 100 100	36, 61, 73, 88	0
48	BP	146/150 (97%)	0.05	4 (2%) 58 43	46, 111, 137, 157	0
48	DP	146/150 (97%)	0.12	5 (3%) 49 35	50, 113, 137, 157	0
49	BQ	141/141 (100%)	-0.35	0 100 100	45, 65, 88, 119	0
49	DQ	141/141 (100%)	-0.38	0 100 100	45, 66, 89, 120	0
50	BR	117/118 (99%)	-0.34	1 (0%) 85 75	49, 81, 101, 128	0
50	DR	117/118 (99%)	-0.26	1 (0%) 85 75	53, 82, 101, 128	0
51	BS	99/112 (88%)	-0.17	2 (2%) 68 54	82, 116, 140, 144	0
51	DS	99/112 (88%)	0.30	5 (5%) 32 22	83, 117, 141, 145	0
52	BT	138/146 (94%)	-0.10	4 (2%) 55 40	55, 83, 149, 176	0
52	DT	138/146 (94%)	-0.15	5 (3%) 46 33	57, 84, 149, 177	0
53	BU	117/118 (99%)	-0.34	0 100 100	62, 80, 114, 135	0
53	DU	117/118 (99%)	-0.33	0 100 100	62, 81, 115, 134	0
54	BV	101/101 (100%)	-0.00	1 (0%) 84 73	59, 116, 133, 141	0
54	DV	101/101 (100%)	0.20	6 (5%) 26 17	61, 116, 134, 140	0
55	BW	113/113 (100%)	-0.25	0 100 100	61, 79, 119, 158	0
55	DW	113/113 (100%)	-0.13	0 100 100	63, 80, 120, 159	0
56	BX	93/96 (96%)	-0.15	0 100 100	76, 91, 110, 114	0
56	DX	93/96 (96%)	-0.20	0 100 100	76, 92, 111, 114	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
57	BY	107/110 (97%)	0.10	2 (1%) 70 56	78, 127, 149, 155	0
57	DY	107/110 (97%)	0.43	4 (3%) 45 32	78, 127, 149, 155	0
58	BZ	185/206 (89%)	-0.20	1 (0%) 91 86	47, 90, 135, 143	0
58	DZ	185/206 (89%)	-0.07	2 (1%) 82 70	68, 99, 138, 146	0
All	All	22794/24788 (91%)	-0.25	449 (1%) 68 54	23, 82, 155, 222	0

All (449) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
35	BA	654(K)	C	14.3
52	BT	138	ALA	13.1
1	CA	1036	G	13.0
35	DA	654(D)	G	12.6
35	BA	654(F)	C	11.0
1	AA	1026	G	11.0
35	BA	654(I)	C	11.0
44	BK	16	LYS	10.7
1	AA	1030(B)	C	9.8
1	CA	89	C	9.6
41	DG	49	ASP	9.6
52	DT	134	GLU	9.5
1	AA	1036	G	9.4
1	AA	89	C	9.3
44	BK	50	ASP	9.2
35	DA	654(J)	A	9.1
35	DA	654(E)	G	8.9
35	BA	654(D)	G	8.7
35	DA	654(K)	C	8.6
11	CK	129	SER	8.2
30	B5	60	VAL	8.2
35	DA	654(G)	C	8.1
30	B5	59	GLU	8.1
35	DA	654(F)	C	8.1
35	BA	654(E)	G	8.0
44	BK	11	GLN	7.9
35	BA	2802	G	7.9
33	D8	65	GLU	7.9
44	DK	51	ALA	7.9
1	CA	1030(B)	C	7.6
44	DK	11	GLN	7.3
22	AW	1	C	7.2

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Mol	Chain	Res	Type	RSRZ
35	BA	2897	U	7.1
35	BA	654(J)	A	7.1
1	CA	1030(A)	G	6.9
35	BA	654(L)	G	6.9
30	D5	60	VAL	6.9
41	BG	49	ASP	6.9
35	DA	2897	U	6.8
35	BA	654(H)	G	6.7
44	BK	51	ALA	6.7
1	AA	1029	C	6.7
44	BK	61	ALA	6.5
24	CY	42	ILE	6.4
1	AA	1028	C	6.4
35	BA	2795	G	6.4
24	AY	41	LYS	6.3
30	D5	59	GLU	6.3
1	AA	1030(A)	G	6.3
25	D0	6	GLY	6.2
44	DK	52	ILE	6.2
44	DK	9	LYS	6.1
52	BT	137	LYS	6.0
44	DK	16	LYS	6.0
57	DY	107	ASP	6.0
40	BF	12	LEU	5.9
1	CA	88	A	5.8
41	BG	48	GLU	5.8
35	DA	2796	U	5.8
35	DA	2802	G	5.8
35	DA	654(H)	G	5.8
35	DA	654(I)	C	5.7
24	CY	116	PRO	5.7
41	DG	48	GLU	5.7
35	DA	654(S)	G	5.6
40	DF	1	MET	5.6
57	DY	28	LYS	5.6
35	BA	654(C)	G	5.6
44	DK	26	ALA	5.6
44	DK	50	ASP	5.5
37	DC	147	GLY	5.5
13	CM	126	LYS	5.5
24	AY	116	PRO	5.4
35	BA	654(G)	C	5.4

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Mol	Chain	Res	Type	RSRZ
25	D0	5	LYS	5.4
24	AY	43	GLY	5.3
1	CA	1035	A	5.3
32	B7	49	ARG	5.3
13	CM	122	LYS	5.3
1	CA	82	U	5.2
40	BF	8	GLN	5.2
44	DK	18	THR	5.1
44	DK	2	LYS	5.1
25	B0	4	LYS	5.1
44	BK	15	GLY	5.0
1	AA	1030(C)	G	5.0
1	CA	1026	G	5.0
44	DK	27	LEU	5.0
22	CW	1	C	4.9
44	DK	3	LYS	4.8
1	CA	81	U	4.8
44	BK	7	VAL	4.8
44	BK	17	ALA	4.8
1	AA	81	U	4.7
44	DK	65	PHE	4.7
44	DK	10	LEU	4.7
25	D0	3	HIS	4.7
29	D4	57	GLU	4.6
44	BK	63	ARG	4.6
35	DA	654(L)	G	4.6
30	B5	58	LEU	4.6
44	BK	60	TYR	4.6
57	DY	106	LEU	4.5
24	CY	64	THR	4.5
37	DC	116	ALA	4.5
44	BK	97	GLY	4.5
1	AA	1031	G	4.5
25	D0	7	LEU	4.5
25	D0	8	GLY	4.4
13	CM	125	ARG	4.4
44	DK	20	ALA	4.4
40	DF	133	ASN	4.4
24	AY	114	VAL	4.3
44	DK	55	VAL	4.3
24	CY	690	GLY	4.3
24	AY	113	GLY	4.3

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Mol	Chain	Res	Type	RSRZ
37	DC	79	ALA	4.3
44	DK	54	PRO	4.3
35	DA	1174	A	4.3
35	BA	275	G	4.3
52	BT	136	GLN	4.3
44	DK	22	PRO	4.2
40	BF	25	PRO	4.2
44	BK	31	GLY	4.2
44	BK	83	GLY	4.2
44	BK	32	ALA	4.2
40	DF	208	GLY	4.2
35	DA	2793	G	4.1
37	DC	78	ILE	4.1
12	CL	128	ALA	4.1
41	BG	50	ALA	4.1
44	DK	21	PRO	4.1
27	B2	72	ALA	4.1
39	DE	205	ALA	4.1
52	DT	135	ALA	4.0
44	BK	64	SER	4.0
2	CB	7	VAL	4.0
48	DP	149	GLU	4.0
35	BA	2896	C	4.0
35	DA	2896	C	3.9
28	D3	1	MET	3.9
24	CY	4	LYS	3.9
44	BK	62	ASP	3.9
25	D0	4	LYS	3.9
44	BK	35	MET	3.9
13	CM	123	ALA	3.9
31	B6	42	TRP	3.9
37	BC	2	PRO	3.9
5	AE	155	GLU	3.9
51	DS	109	GLY	3.9
1	CA	80	G	3.8
44	BK	47	ASN	3.8
5	CE	154	GLY	3.8
44	BK	18	THR	3.8
1	AA	88	A	3.8
44	BK	49	GLY	3.8
44	DK	74	ALA	3.8
44	BK	12	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
13	CM	124	PRO	3.7
44	BK	14	ALA	3.7
35	DA	157	U	3.7
37	DC	97	GLY	3.7
44	BK	2	LYS	3.7
48	BP	87	ASP	3.6
44	BK	82	ALA	3.6
11	AK	129	SER	3.6
7	AG	84	ASN	3.6
44	BK	66	THR	3.6
24	CY	41	LYS	3.6
44	DK	36	GLU	3.6
13	AM	7	VAL	3.6
25	B0	8	GLY	3.6
40	DF	17	ARG	3.5
35	DA	654(C)	G	3.5
35	BA	2794	C	3.5
40	BF	1	MET	3.5
44	DK	37	PHE	3.5
44	BK	52	ILE	3.5
50	DR	2	ARG	3.5
44	BK	8	VAL	3.5
51	DS	61	ASN	3.5
52	DT	137	LYS	3.5
44	BK	22	PRO	3.5
44	DK	141	ALA	3.5
25	B0	6	GLY	3.5
54	DV	48	GLY	3.5
29	D4	32	TYR	3.4
44	BK	27	LEU	3.4
44	BK	37	PHE	3.4
13	AM	122	LYS	3.4
35	DA	275	G	3.4
44	DK	17	ALA	3.4
44	DK	13	PRO	3.4
44	BK	65	PHE	3.4
40	BF	24	LEU	3.4
13	CM	120	LYS	3.4
1	AA	82	U	3.3
37	DC	124	VAL	3.4
13	AM	125	ARG	3.3
18	CR	88	LYS	3.3

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Mol	Chain	Res	Type	RSRZ
24	CY	84	THR	3.3
44	BK	36	GLU	3.3
1	AA	1035	A	3.3
44	BK	13	PRO	3.3
1	CA	1001(A)	G	3.3
54	DV	36	PRO	3.3
44	DK	61	ALA	3.3
13	CM	7	VAL	3.2
37	DC	98	GLU	3.2
39	BE	76	ARG	3.2
44	DK	118	THR	3.2
37	DC	96	GLY	3.2
51	BS	60	GLY	3.2
25	B0	3	HIS	3.2
48	DP	150	ALA	3.2
40	BF	133	ASN	3.2
29	B4	47	GLN	3.2
35	DA	2799	C	3.1
35	DA	2804	C	3.1
44	BK	30	HIS	3.1
44	BK	84	LEU	3.1
39	DE	204	ALA	3.1
44	DK	137	GLU	3.1
44	BK	21	PRO	3.1
35	DA	2795	G	3.1
52	DT	39	ARG	3.1
31	B6	26	ASN	3.1
44	BK	33	ASN	3.1
58	DZ	159	PRO	3.1
7	CG	82	GLY	3.1
35	BA	2894	G	3.1
1	AA	1030(D)	A	3.1
44	DK	82	ALA	3.1
24	CY	203	GLU	3.1
35	DA	156	U	3.0
44	DK	4	VAL	3.0
24	CY	40	HIS	3.0
44	BK	69	THR	3.0
25	D0	2	ALA	3.0
41	DG	113	ARG	3.0
1	AA	1027	C	3.0
51	DS	57	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
40	BF	11	VAL	3.0
27	D2	71	ASN	3.0
44	DK	30	HIS	3.0
9	CI	95	LYS	3.0
35	BA	2796	U	3.0
44	BK	48	MET	3.0
24	CY	202	PRO	2.9
40	DF	23	ASP	2.9
19	AS	82	GLY	2.9
35	DA	654(R)	C	2.9
46	BN	68	GLU	2.9
1	CA	1028	C	2.9
44	BK	28	GLY	2.9
44	BK	41	PHE	2.9
19	CS	82	GLY	2.9
35	BA	2799	C	2.9
24	AY	115	GLU	2.9
35	DA	1534	U	2.9
44	BK	45	THR	2.8
51	DS	59	LYS	2.8
13	AM	124	PRO	2.8
44	DK	19	PRO	2.8
35	BA	888	C	2.8
30	D5	2	ALA	2.8
12	CL	129	ALA	2.8
40	BF	10	PRO	2.8
44	BK	67	PHE	2.8
44	BK	10	LEU	2.8
37	DC	80	LYS	2.8
10	CJ	88	LEU	2.8
24	CY	114	VAL	2.8
19	CS	81	ARG	2.8
1	CA	1257	U	2.8
41	BG	115	ARG	2.8
24	CY	17	ILE	2.8
29	D4	56	VAL	2.7
44	BK	26	ALA	2.7
44	DK	66	THR	2.7
40	BF	9	ILE	2.7
24	CY	115	GLU	2.7
30	D5	54	GLY	2.7
44	DK	67	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
42	BH	42	ARG	2.7
54	DV	20	LEU	2.7
24	AY	40	HIS	2.7
13	AM	126	LYS	2.7
44	BK	105	LEU	2.7
1	AA	1030	C	2.7
14	AN	2	ALA	2.7
44	BK	6	ALA	2.7
44	BK	58	THR	2.7
10	AJ	85	LEU	2.7
41	DG	149	VAL	2.7
41	DG	2	PRO	2.7
44	BK	137	GLU	2.6
24	CY	6	GLU	2.6
42	BH	52	VAL	2.6
44	DK	38	VAL	2.6
10	AJ	88	LEU	2.6
29	D4	38	LYS	2.6
44	BK	110	GLN	2.6
42	BH	44	VAL	2.6
44	BK	68	VAL	2.6
31	D6	42	TRP	2.6
10	AJ	25	GLU	2.6
24	CY	227	ILE	2.6
37	BC	14	LYS	2.6
44	DK	62	ASP	2.6
48	BP	150	ALA	2.6
44	DK	45	THR	2.6
1	AA	1001(A)	G	2.5
32	B7	48	LYS	2.5
28	B3	1	MET	2.5
35	DA	654	A	2.5
44	BK	56	GLU	2.5
35	DA	2803	C	2.5
10	CJ	73	ASP	2.5
44	BK	74	ALA	2.5
13	CM	121	LYS	2.5
51	BS	43	GLU	2.5
10	AJ	33	GLN	2.5
39	DE	69	LYS	2.5
40	DF	2	LYS	2.5
37	DC	113	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
52	DT	136	GLN	2.5
37	DC	117	THR	2.5
35	BA	614(A)	U	2.5
35	BA	2801	A	2.5
44	DK	25	PRO	2.5
24	AY	42	ILE	2.5
2	AB	122	PHE	2.5
44	BK	54	PRO	2.5
44	BK	98	ARG	2.5
24	CY	204	GLU	2.5
35	DA	654(A)	G	2.5
29	B4	53	GLU	2.5
1	AA	80	G	2.5
16	CP	83	GLU	2.5
1	CA	83	U	2.5
29	D4	22	ILE	2.5
7	CG	83	ALA	2.5
35	DA	614(A)	U	2.5
42	BH	137	ASP	2.5
42	DH	176	ALA	2.4
48	DP	95	VAL	2.4
29	B4	32	TYR	2.4
44	BK	19	PRO	2.4
51	DS	108	GLY	2.4
44	BK	53	VAL	2.4
40	BF	23	ASP	2.4
39	BE	204	ALA	2.4
9	AI	95	LYS	2.4
24	CY	65	ILE	2.4
44	DK	39	LYS	2.4
54	DV	101	GLY	2.4
24	CY	445	GLU	2.4
24	CY	43	GLY	2.4
25	D0	85	ALA	2.4
44	DK	29	GLN	2.3
19	CS	22	LEU	2.3
46	DN	139	GLU	2.3
10	CJ	23	ILE	2.3
44	DK	14	ALA	2.3
24	CY	97	SER	2.3
44	DK	48	MET	2.3
44	DK	63	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
48	DP	5	ASP	2.3
42	DH	101	ARG	2.3
35	DA	896	A	2.3
10	AJ	80	LYS	2.3
2	AB	13	ALA	2.3
33	B8	65	GLU	2.3
35	DA	1740	G	2.3
50	BR	2	ARG	2.3
54	BV	20	LEU	2.3
27	D2	72	ALA	2.3
57	DY	53	PRO	2.3
46	BN	139	GLU	2.3
18	AR	88	LYS	2.3
13	AM	84	ILE	2.3
44	BK	57	ILE	2.3
42	BH	33	LEU	2.3
48	BP	81	GLN	2.2
44	DK	8	VAL	2.2
26	B1	85	LEU	2.2
40	DF	194	MET	2.2
1	AA	1037	C	2.2
35	DA	884	C	2.2
24	CY	401	SER	2.2
40	DF	161	GLU	2.2
25	D0	81	VAL	2.2
54	DV	1	MET	2.2
19	AS	81	ARG	2.2
44	DK	56	GLU	2.2
48	BP	149	GLU	2.2
52	BT	135	ALA	2.2
35	BA	352	G	2.2
34	D9	1	MET	2.2
24	CY	570	GLY	2.2
1	AA	470	C	2.2
1	AA	93	G	2.2
38	DD	276	LYS	2.2
25	B0	2	ALA	2.1
44	DK	28	GLY	2.1
27	B2	71	ASN	2.1
40	DF	205	ARG	2.1
40	DF	25	PRO	2.1
44	DK	32	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
39	BE	69	LYS	2.1
44	DK	23	VAL	2.1
44	BK	29	GLN	2.1
42	BH	175	LYS	2.1
29	D4	58	ARG	2.1
57	BY	28	LYS	2.1
35	BA	654(S)	G	2.1
44	BK	85	GLU	2.1
1	CA	1029	C	2.1
11	AK	127	LYS	2.1
25	B0	7	LEU	2.1
19	CS	21	GLU	2.1
1	AA	1005	A	2.1
28	D3	2	PRO	2.1
42	DH	85	LYS	2.1
2	AB	14	GLY	2.1
44	DK	110	GLN	2.1
35	BA	156	U	2.1
35	BA	654	A	2.1
35	BA	1174	A	2.1
37	BC	203	GLU	2.1
44	DK	42	ASN	2.1
58	BZ	159	PRO	2.1
57	BY	107	ASP	2.1
24	CY	66	THR	2.1
37	DC	110	ASP	2.1
10	AJ	4	ILE	2.0
2	AB	128	GLU	2.0
48	DP	144	GLU	2.0
37	BC	131	ILE	2.0
24	AY	19	ALA	2.0
13	AM	50	GLU	2.0
44	BK	9	LYS	2.0
40	DF	181	LEU	2.0
40	DF	15	SER	2.0
54	DV	14	VAL	2.0
58	DZ	139	VAL	2.0
39	BE	205	ALA	2.0
29	D4	31	ILE	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
22	5MU	CV	54	20/22	0.97	0.11	-	89,92,95,96	0
22	5MU	AV	54	20/22	0.95	0.13	-	82,84,86,86	0
22	5MU	AW	55	20/22	0.83	0.14	-	161,165,168,168	0
22	5MU	CW	55	20/22	0.81	0.13	-	178,179,186,186	0

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
61	FUA	AY	702	37/37	0.90	0.43	1.99	98,102,110,111	0
59	ZN	AD	301	1/1	1.00	0.28	1.61	32,32,32,32	0
59	ZN	CD	301	1/1	0.99	0.28	1.04	49,49,49,49	0
61	FUA	CY	702	37/37	0.90	0.35	0.41	102,104,107,109	0
59	ZN	B9	101	1/1	0.99	0.15	0.01	62,62,62,62	0
59	ZN	AN	101	1/1	1.00	0.16	-0.23	35,35,35,35	0
59	ZN	D9	101	1/1	1.00	0.12	-0.51	86,86,86,86	0
62	GDP	AY	703	28/28	0.96	0.17	-0.57	78,82,83,84	0
59	ZN	CN	101	1/1	1.00	0.16	-0.86	66,66,66,66	0
59	ZN	D4	101	1/1	0.90	0.07	-1.04	164,164,164,164	0
59	ZN	B4	101	1/1	0.91	0.12	-1.47	122,122,122,122	0
62	GDP	CY	703	28/28	0.95	0.15	-1.65	81,87,94,95	0
60	MG	AY	701	1/1	0.98	0.22	-	30,30,30,30	0
60	MG	CY	701	1/1	0.99	0.12	-	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.