



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:18 PM GMT

PDB ID : 4V8U
Title : Crystal Structure of 70S Ribosome with Both Cognate tRNAs in the E and P Sites Representing an Authentic Elongation Complex.
Authors : GAO, Y.G.; FENG, S.; CHEN, Y.
Deposited on : 2012-08-28
Resolution : 3.70 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

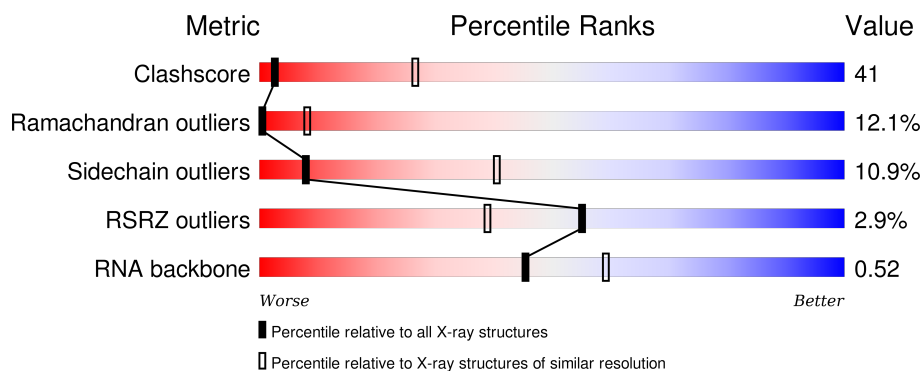
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.70 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.



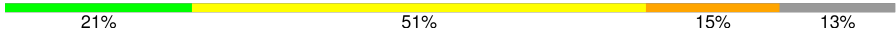


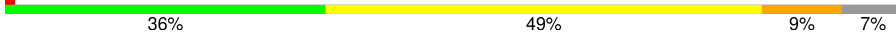
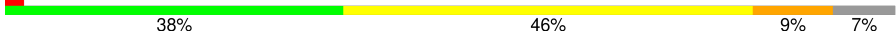
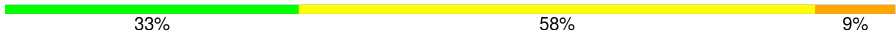
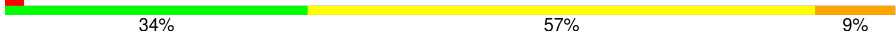
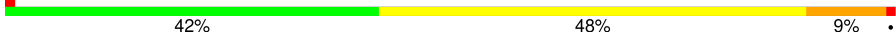
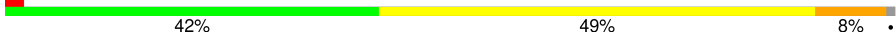
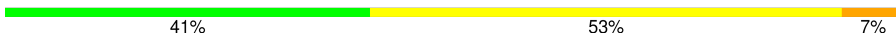
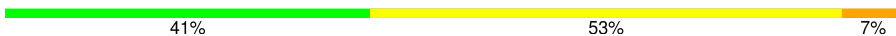
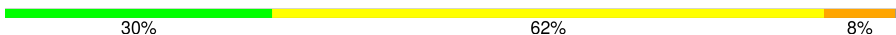
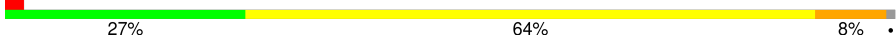
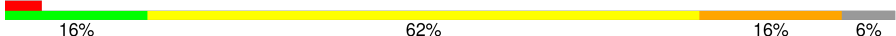




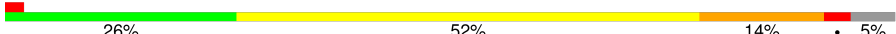
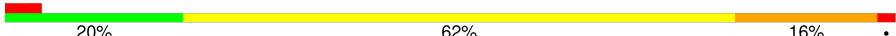
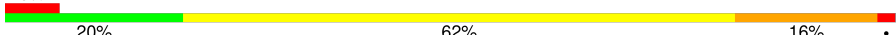




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	1224 (3.90-3.50)
Ramachandran outliers	100387	1172 (3.90-3.50)
Sidechain outliers	100360	1170 (3.90-3.50)
RSRZ outliers	91569	1108 (3.90-3.50)
RNA backbone	2183	1067 (4.60-2.80)

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>2%</div> <div>30% 56% 12%</div> <div>..</div> </div>
1	CA	1522	<div> <div>2%</div> <div>28% 58% 12%</div> <div>..</div> </div>
2	AB	256	<div> <div>25% 50% 15%</div> <div>8%</div> </div>
2	CB	256	<div> <div>23% 52% 15%</div> <div>8%</div> </div>
3	AC	239	<div> <div>22% 50% 14%</div> <div>13%</div> </div>

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Mol	Chain	Length	Quality of chain
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	
15	CO	89	

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Mol	Chain	Length	Quality of chain
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	76	
22	CV	76	
23	AW	77	
23	CW	77	
24	AX	25	
24	CX	25	
25	AY	691	
25	CY	691	
26	B0	85	
26	D0	85	
27	B1	98	
27	D1	98	
28	B2	72	

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

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Mol	Chain	Length	Quality of chain
41	BF	210	
41	DF	210	
42	BG	182	
42	DG	182	
43	BH	180	
43	DH	180	
44	BJ	173	
44	DJ	173	
45	BN	140	
45	DN	140	
46	BO	122	
46	DO	122	
47	BP	150	
47	DP	150	
48	BQ	141	
48	DQ	141	
49	BR	118	
49	DR	118	
50	BS	112	
50	DS	112	
51	BT	146	
51	DT	146	
52	BU	118	
52	DU	118	
53	BV	101	

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Mol	Chain	Length	Quality of chain
53	DV	101	
54	BW	113	
54	DW	113	
55	BX	96	
55	DX	96	
56	BY	110	
56	DY	110	
57	BZ	206	
57	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
59	FUA	AY	701	-	-	-	X
59	FUA	CY	701	-	-	X	X
60	GDP	AY	702	-	-	X	-
60	GDP	CY	702	-	-	X	-

2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 307606 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 RIBOSOMAL RNA.

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 MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			

- Molecule 23 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			
23	CW	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			

- Molecule 24 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	12	Total	C	N	O	P	0	0	0
			257	116	49	80	12			
24	CX	12	Total	C	N	O	P	0	0	0
			257	116	49	80	12			

- Molecule 25 is a protein called ELONGATION FACTOR G.

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

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L27.

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

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

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L28.

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

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L29.

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

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L30.

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

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L31.

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

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L32.

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

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			
32	D6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L34.

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

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L35.

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

- Molecule 35 is a protein called 50S RIBOSOMAL PROTEIN L36.

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

- Molecule 36 is a RNA chain called 23S RIBOSOMAL RNA.

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

- Molecule 37 is a RNA chain called 5S RIBOSOMAL RNA.

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

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L1.

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

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L2.

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

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L3.

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

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L4.

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

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L5.

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

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

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L6.

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

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

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

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L13.

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

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L14.

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

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L15.

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

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L16.

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

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L17.

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

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

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

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L19.

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

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L20.

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

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L22.

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

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L23.

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

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L24.

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

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L25.

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

- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

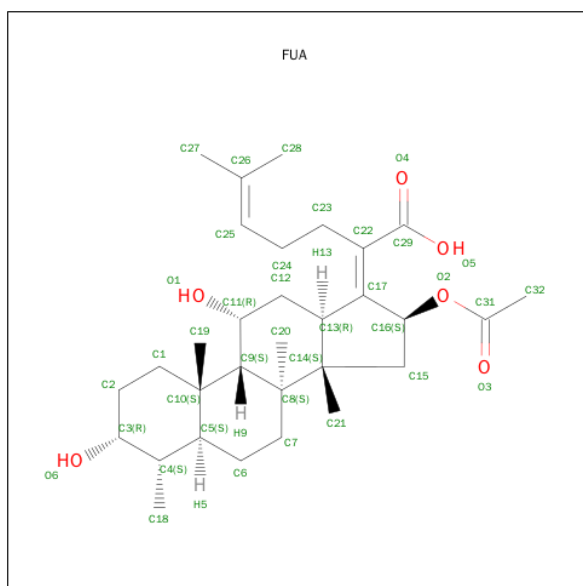
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	B4	1	Total	Zn	0	0
			1	1		

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

- Molecule 59 is FUSIDIC ACID (three-letter code: FUA) (formula: $C_{31}H_{48}O_6$).



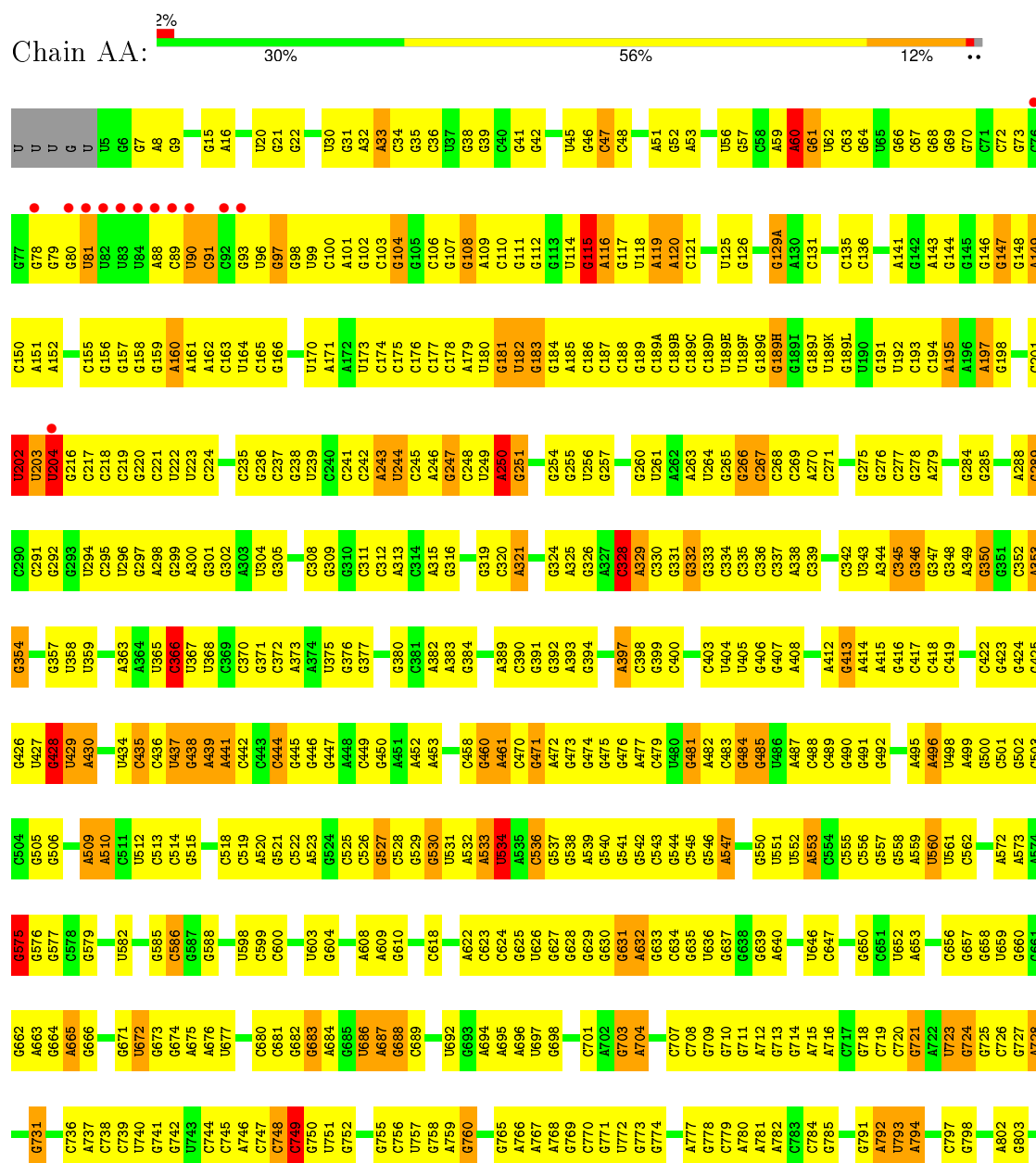
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
59	AY	1	Total	C	O	0	0
			37	31	6		
59	CY	1	Total	C	O	0	0
			37	31	6		

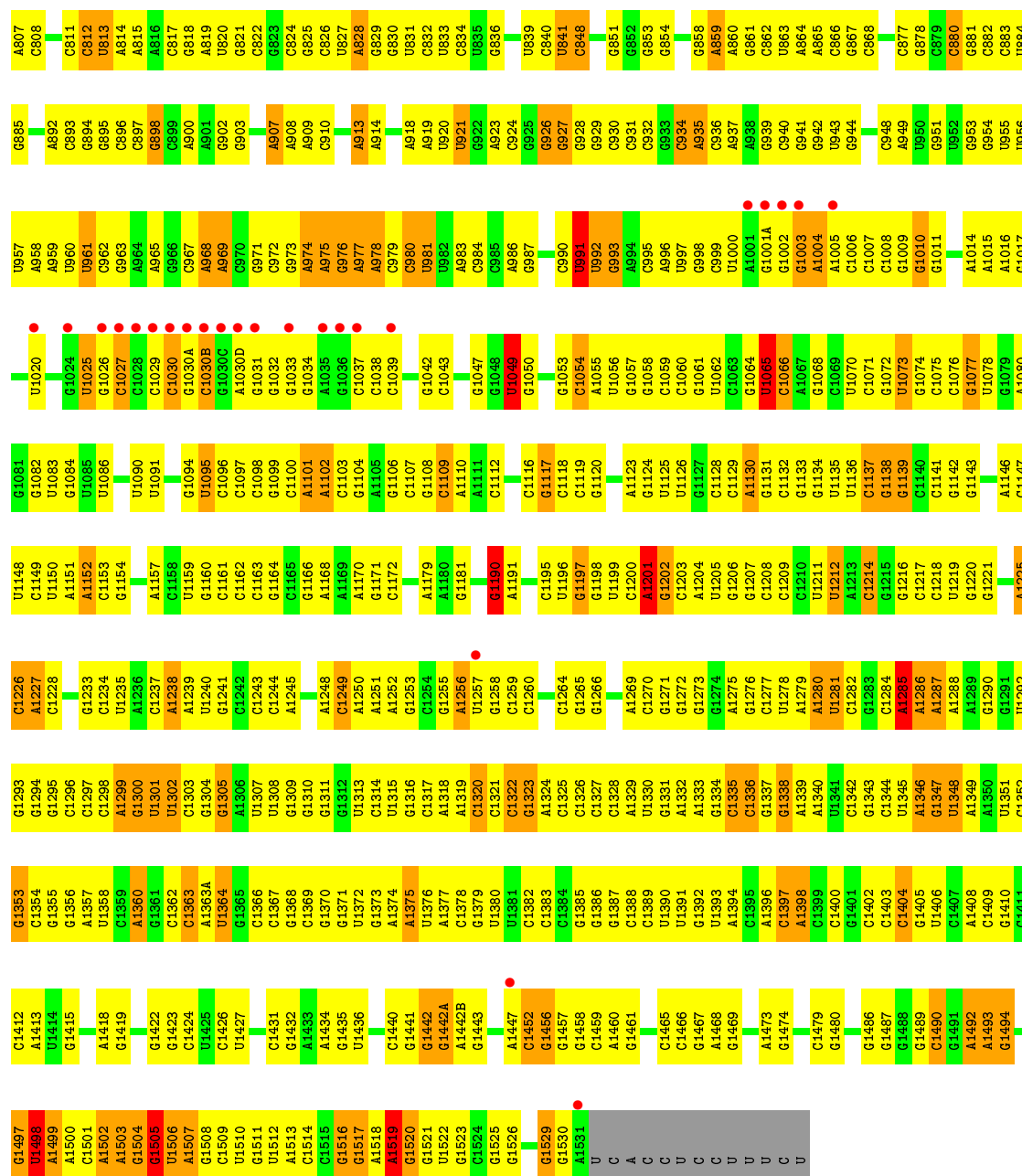
- Molecule 60 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).

3 Residue-property plots

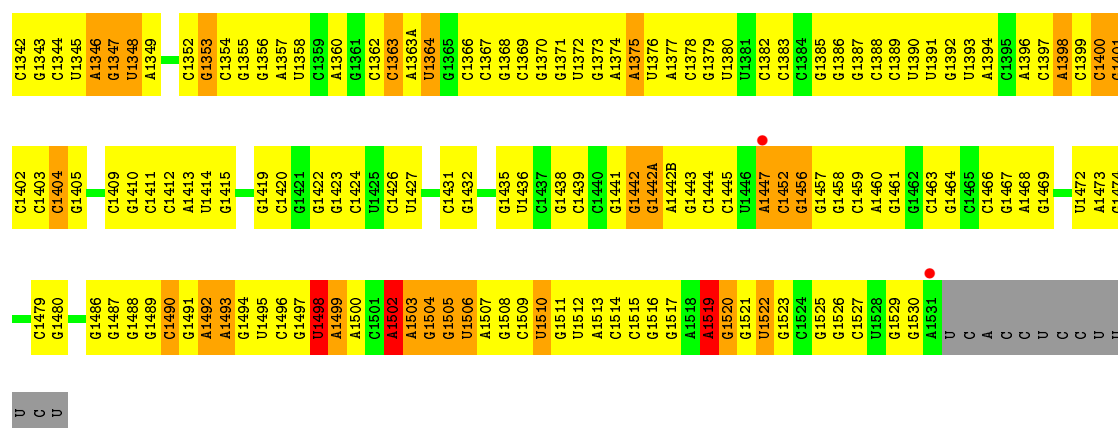
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 RIBOSOMAL RNA



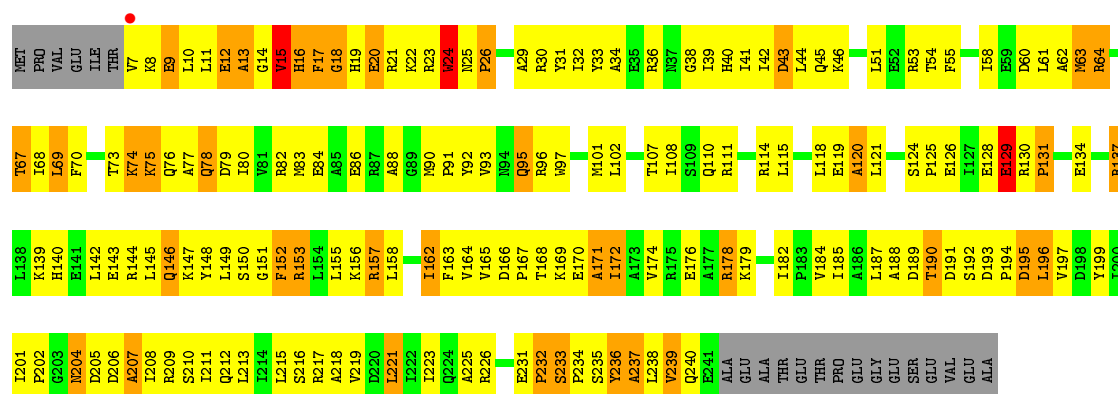


C1282	A1213	U1136	U1070	A1005	U943	C866	G791	G718	G653	C562	A496	C417	G357	A288	G198
G1283	C1214	C1137	C1071	C1006	G944	G867	A792	C719	U652	U571	U498	C418	G358	G289	C201
C1284	G1215	G1138	G1072	C1007	G945	C868	A793	G720	A653	A572	A499	C419	U359	C290	U202
A1285	G1216	G1139	U1073	C1008	A946	C877	A794	G721	U656	A573	G501	G422	A360	C291	U203
A1286	C1217	G1140	G1074	G1009	G947	C878	G797	U722	A574	A574	G502	G423	A361	G292	U204
A1287	C1218	G1141	C1075	G1010	G948	C879	G798	U723	G575	G575	G503	G424	G362	G293	G216
A1288	U1219	G1142	C1076	G1011	A949	C880	A802	G724	G576	G576	G504	G425	A363	U294	C217
A1289	G1221	U1143	G1077	A1014	U950	G881	A803	G725	G660	G577	G505	G426	A364	U296	C218
G1290	G1291	U1146	U1078	A1015	U951	G882	U804	G726	G661	G578	G506	U427	U365	A297	C219
U1292	A1225	C1147	G1079	A1016	U952	C883	G803	U727	G662	G579	G507	U428	C366	A298	G220
G1293	C1226	U1148	G1081	G1017	G954	U884	A807	G728	G663	G579	A509	U429	U367	G299	C221
G1294	A1227	U1149	U1082	U1020	U955	G885	C808	G731	G664	U582	A510	A430	U368	A300	U222
G1295	C1228	U1150	U1083	U1021	U956	G886	G809	G736	G665	U583	G511	G434	C369	G301	U223
C1296	U1297	A1151	G1084	U1022	U957	A892	C811	U737	G666	A583	G512	U435	G370	G302	C224
C1297	C1298	A1152	U1085	U1023	U958	C893	U812	A738	G671	G584	C519	C436	C371	C308	G235
A1299	U1299	C1153	U1086	G1026	A959	G894	U813	C738	G672	G585	C514	C437	C372	G309	G236
G1300	C1296	G1154	U1087	G1027	U960	G895	U814	C739	U672	G586	C515	U438	C373	G310	C237
U1301	C1297	A1157	U1088	C1028	U961	C896	A815	U740	G673	G587	C522	G439	C374	C311	G238
U1302	A1298	C1158	U1089	C1029	G962	C897	A816	G741	G674	G588	C523	A440	C375	C312	C240
C1303	C1299	U1159	G1094	C1030	G963	G898	A817	G742	A675	U591	C519	A441	U376	C313	C241
G1304	U1299	G1160	U1095	G1030A	A964	C899	C817	U743	A676	G592	C520	C442	C377	C314	C242
G1305	C1299	C1161	U1096	G1030B	A965	A900	G818	G744	U677	G593	C521	C443	C378	A315	G247
A1306	G1242	C1162	C1097	G1030C	G966	A901	A819	C745	U678	U598	C522	C444	C379	A316	G248
C1243	C1243	C1163	C1098	G1030D	C967	G902	G820	U746	G680	C600	C523	C445	C380	A243	U249
C1244	A1245	G1164	G1099	G1031	A968	G903	G821	C747	C681	C601	C524	C446	C381	U244	G251
C1245	C1245	C1165	C1032	G1032	A969	G904	G822	C748	G682	A602	C525	C447	C382	C245	G252
G1310	A1248	A1168	A1101	G1033	C972	A907	G823	C749	G683	C603	C526	C448	C383	C246	G253
G1311	C1249	C1169	G1102	G1034	G973	A908	G824	U751	G684	G604	C527	C449	C384	C247	G254
G1312	A1250	A1170	G1103	G1035	A974	A909	G825	G752	G685	G604	C528	C450	C385	C248	G255
U1313	C1251	C1171	C1037	G1036	G975	A910	G826	G753	U686	A687	C529	C451	C386	C249	G256
C1314	A1251	G1171	C1038	G1037	G976	A913	A828	G754	U687	A688	C530	C452	C387	C250	G257
G1315	C1252	C1172	G1039	C1039	A977	A914	G829	G755	C689	G610	C531	C453	C388	C251	G258
G1316	G1263	U1107	C1107	G1040	U978	G914	G830	U756	U692	A611	C532	C454	C389	G259	G259
A1317	C1264	A1179	G1108	G1042	C979	A918	U831	U757	G693	U534	C533	C455	C390	G260	G260
A1318	G1265	G1180	G1109	C1043	C980	A919	C832	G758	G694	A535	C534	C456	C391	U261	G261
A1319	A1266	G1181	A1110	G1044	U981	U920	U833	U759	A695	C536	C535	C457	C392	U262	G262
C1320	U1257	G1190	C1112	G1047	U982	G921	C834	G760	A696	C537	C536	C458	C393	U263	G263
C1321	G1258	A1191	C1113	G1048	A983	G922	U835	G761	A697	C538	C537	C459	C394	U264	G264
C1322	C1259	C1192	C1114	G1049	C984	A923	G836	U762	U698	C539	C538	C460	C395	U265	G265
G1323	C1260	A1193	C1115	G1050	C985	C924	U837	G763	C699	C540	C539	C461	C396	U266	G266
A1324	C1261	G1195	C1116	G1051	A986	G925	U839	U764	C700	C541	C540	C462	C397	U267	G267
C1325	G1264	U1196	C1117	G1052	C990	G926	C840	G765	A702	C542	C541	C463	C398	U268	G268
C1326	G1265	G1197	C1118	C1054	U991	G927	U841	U766	G703	C543	C542	C464	C399	U269	G269
C1327	G1266	U1198	G1119	A1055	G928	G928	C848	U767	A704	C544	C543	C465	C400	A270	G270
A1269	C1267	U1199	G1120	U1056	U992	G929	G851	U768	G705	C545	C544	C466	C401	C271	G271
U1330	C1270	C1200	A1201	G1057	G993	C930	G852	U769	G706	C546	C545	C467	C402	G272	G272
G1331	G1271	G1202	C1203	G1058	A994	C931	G853	U770	A707	C547	C546	C468	C403	C273	G273
A1332	C1272	C1204	U1125	C1059	C995	C932	G854	U771	G708	C548	C547	C469	C404	C274	G274
A1333	G1273	A1204	U1126	C1060	A996	G933	G855	U772	C709	C549	C548	C470	C405	A270	G270
G1334	C1274	U1205	C1128	U1062	U997	C934	G856	U773	G710	C550	C549	C471	C406	C271	G271
C1335	A1275	G1206	C1129	C1063	G998	A935	A858	U774	G711	C551	C550	C472	C407	G272	G272
C1336	G1276	G1207	U1130	G1064	C999	C936	A860	U775	A712	C552	C551	C473	C408	C273	G273
G1337	C1277	C1208	G1131	U1065	U998	A937	G861	U776	A713	C553	C552	C474	C409	C274	G274
G1338	U1278	C1209	C1132	C1066	G999	A938	G862	U777	G714	C554	C553	C475	C410	G275	G275
A1339	A1279	G1210	G1133	A1067	G1002	C940	C863	U778	G715	C555	C554	C476	C411	G276	G276
A1340	U1280	C1211	G1134	C1068	G1003	G941	A864	U779	A716	C556	C555	C477	C412	C277	G277
U1341	U1281	U1212	U1135	C1069	G942	A865	G865	U780	C717	C557	C556	C478	C413	G278	G278



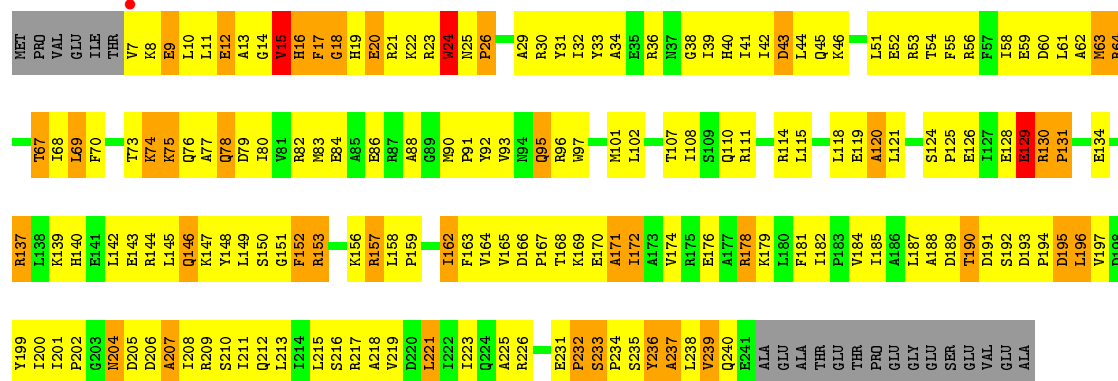
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

Chain AB: 25% 50% 15% 8%



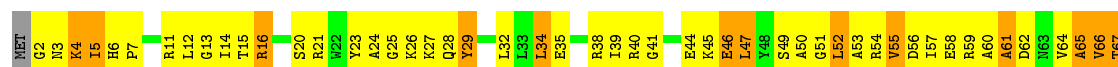
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

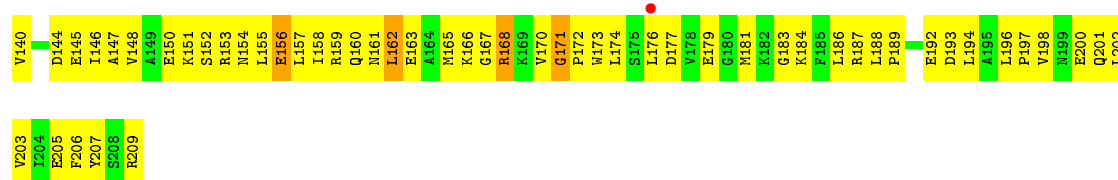
Chain CB: 23% 52% 15% 8%



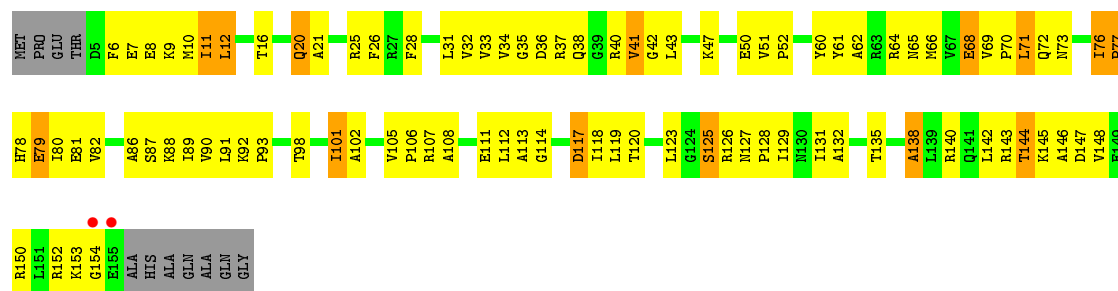
• Molecule 3: 30S RIBOSOMAL PROTEIN S3

Chain AC: 22% 50% 14% 13%

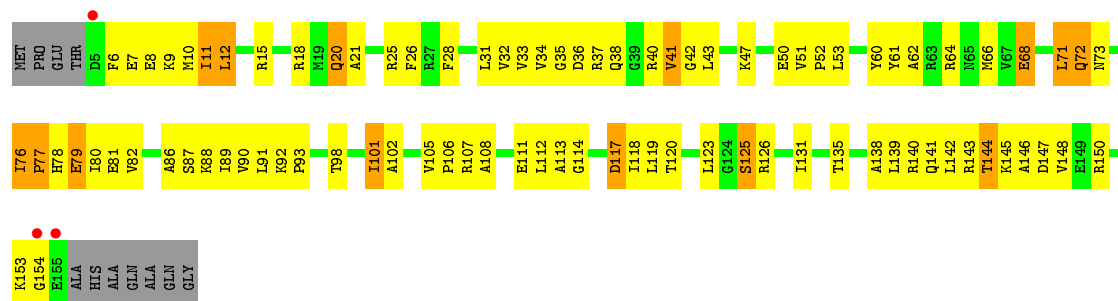




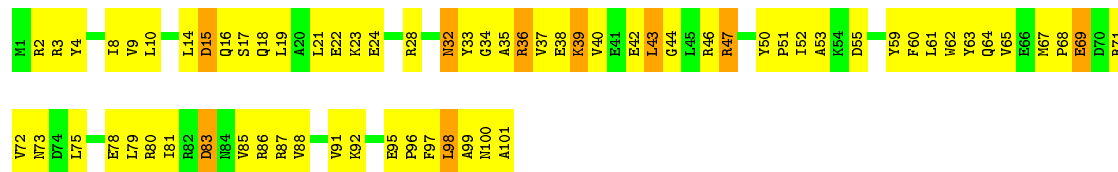
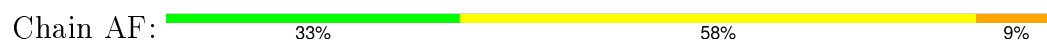
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



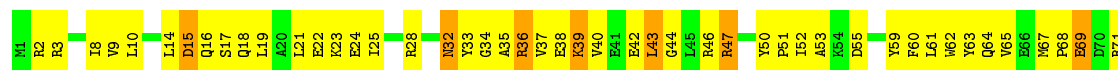
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

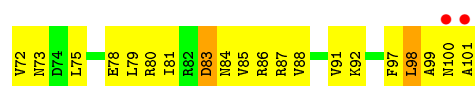


• Molecule 6: 30S RIBOSOMAL PROTEIN S6

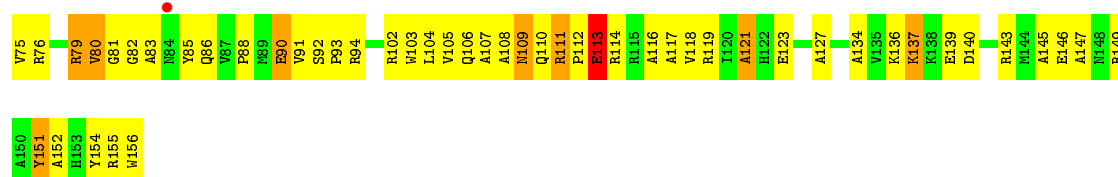
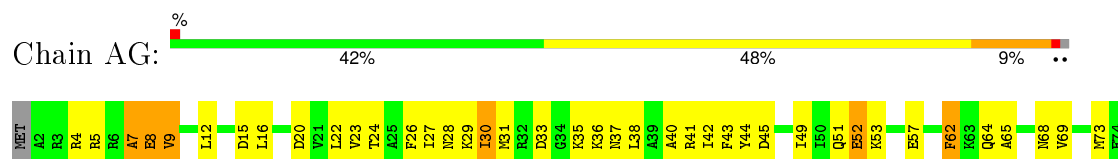


• Molecule 6: 30S RIBOSOMAL PROTEIN S6

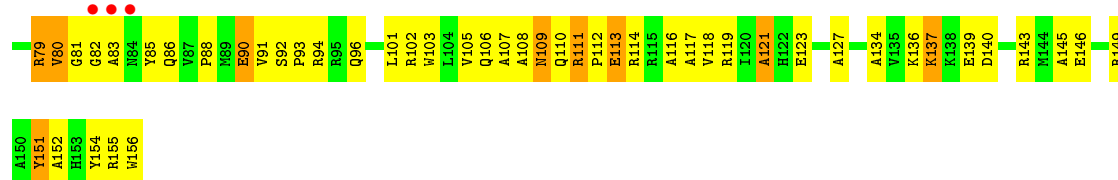
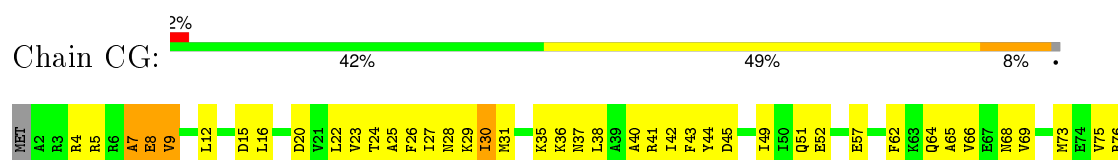




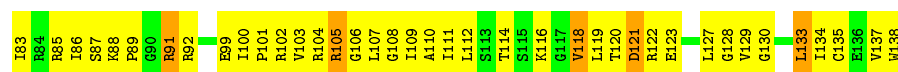
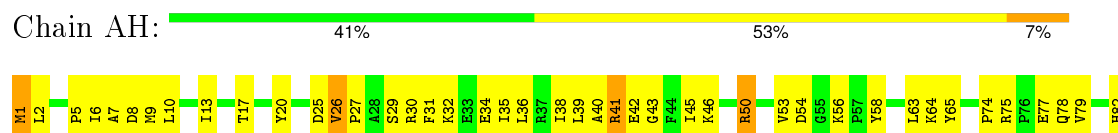
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



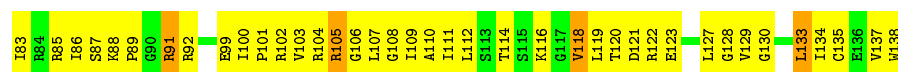
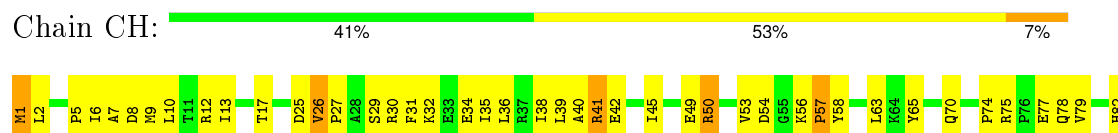
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



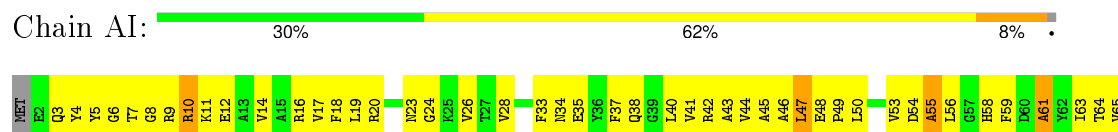
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



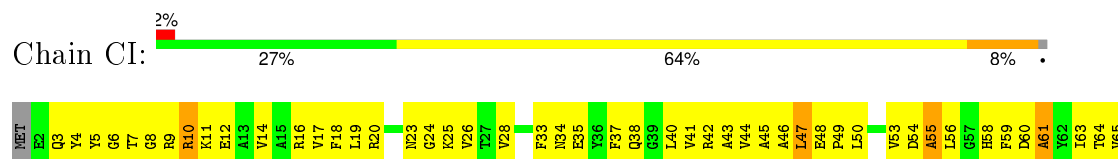
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



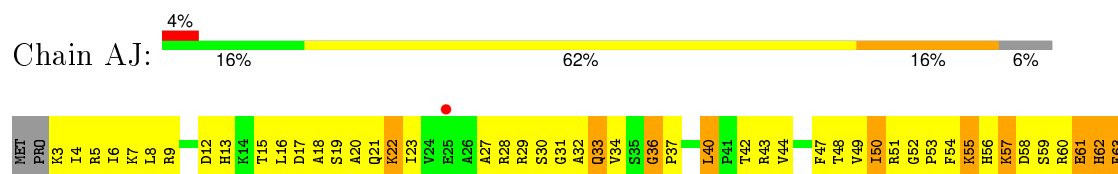
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



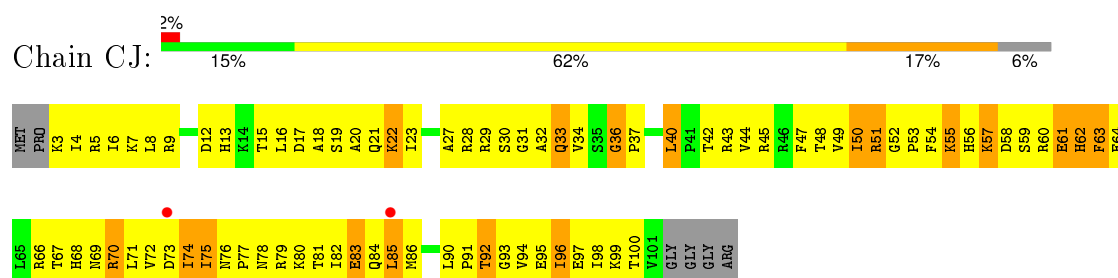
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



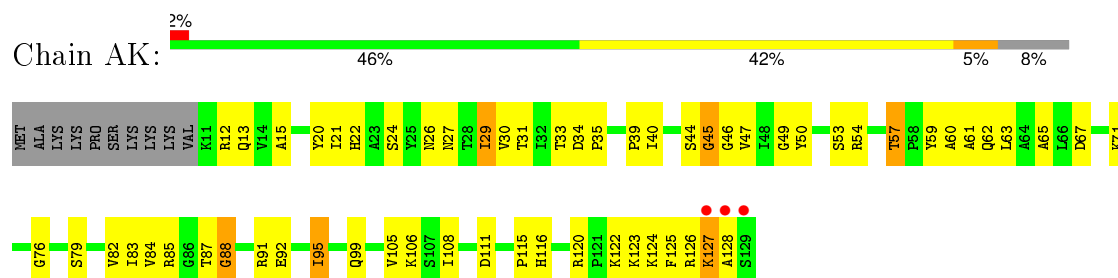
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 10: 30S RIBOSOMAL PROTEIN S10



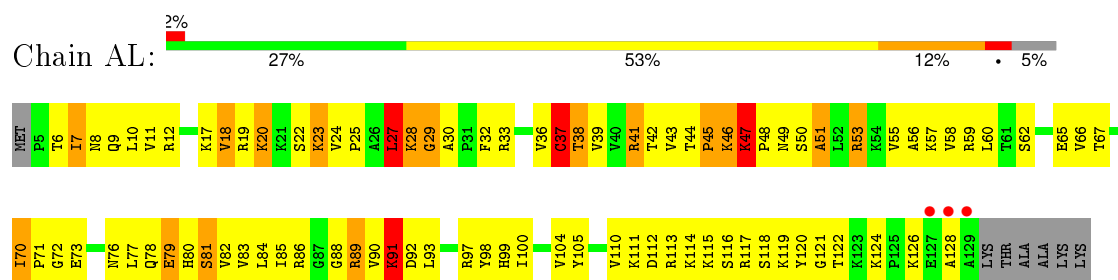
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



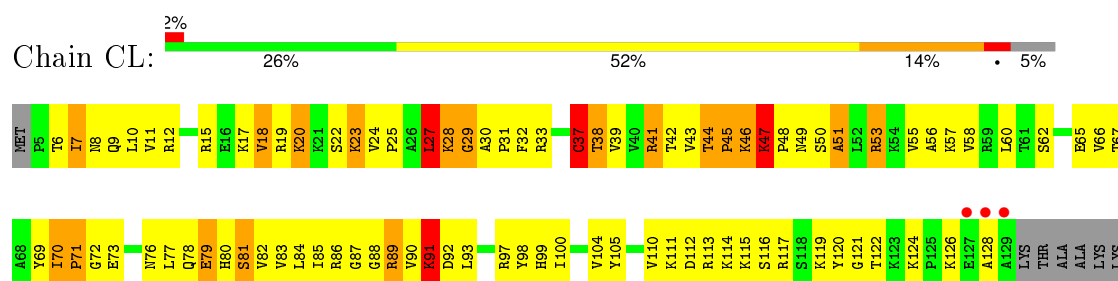
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



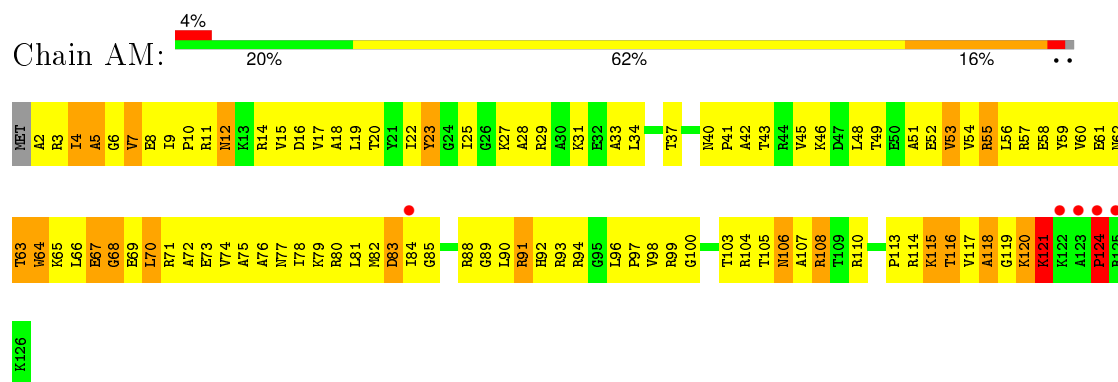
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



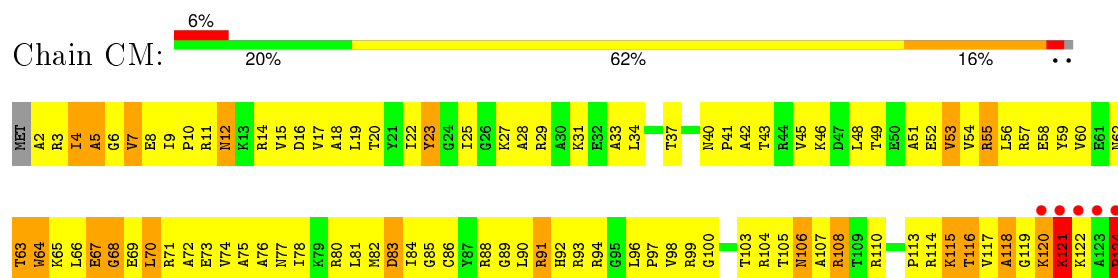
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



• Molecule 13: 30S RIBOSOMAL PROTEIN S13



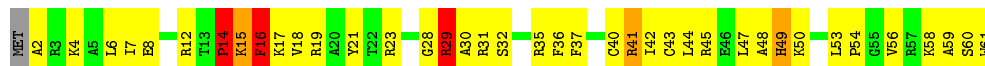
• Molecule 13: 30S RIBOSOMAL PROTEIN S13





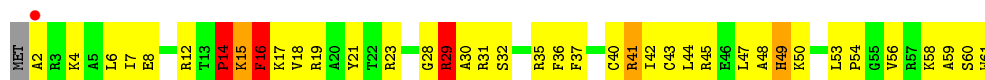
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain AN: 34% 54% 5% 5% .



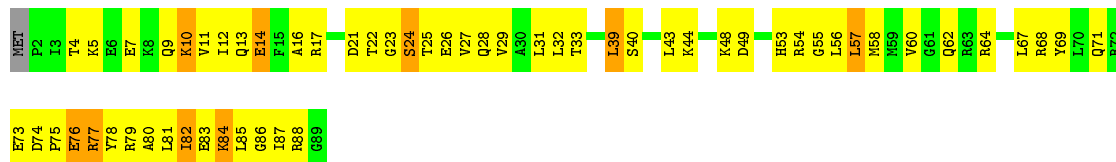
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain CN: 2% 34% 54% 5% .



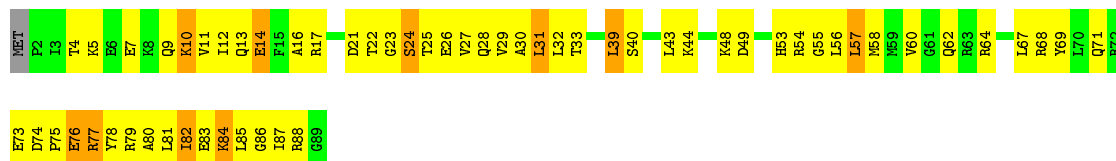
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AO: 34% 55% 10% .



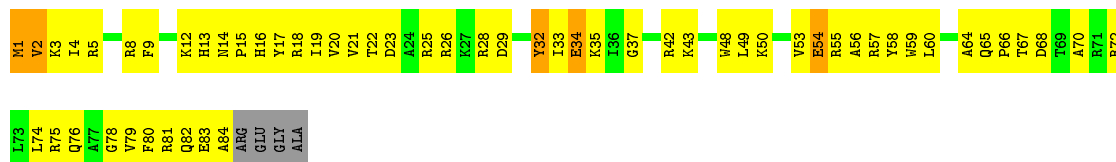
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CO: 33% 55% 11% .



• Molecule 16: 30S RIBOSOMAL PROTEIN S16

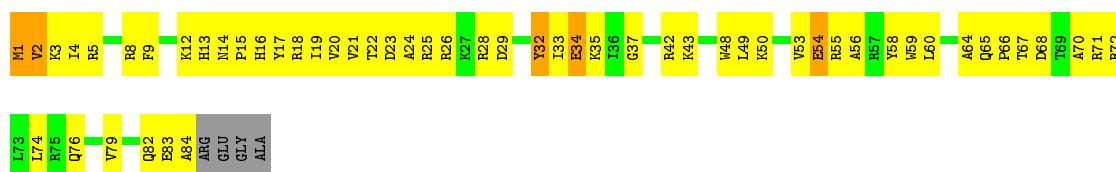
Chain AP: 30% 60% 6% 5% .



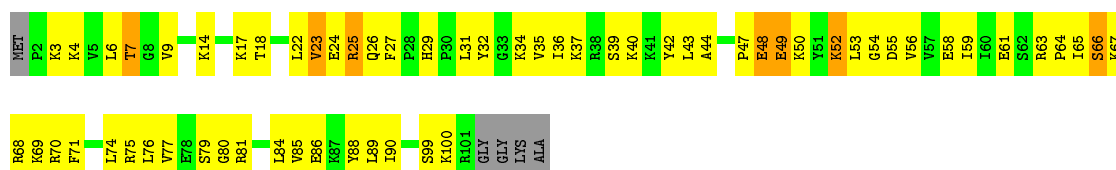
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CP: 33% 57% 6% 5% .

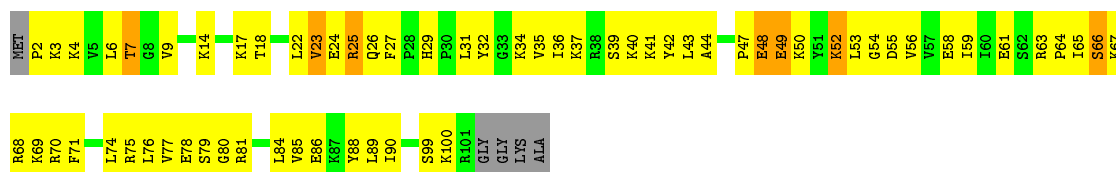




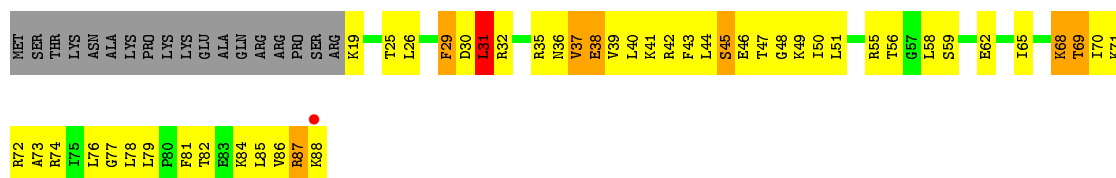
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



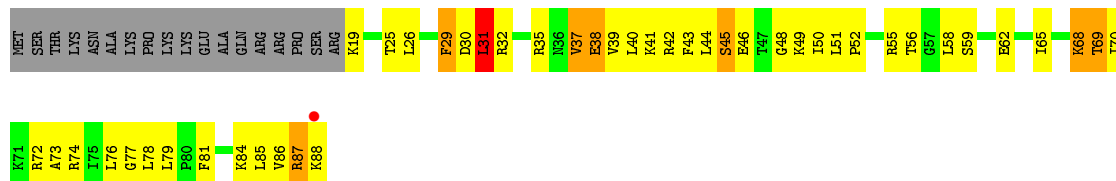
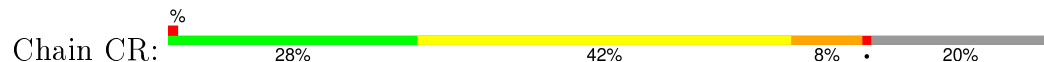
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



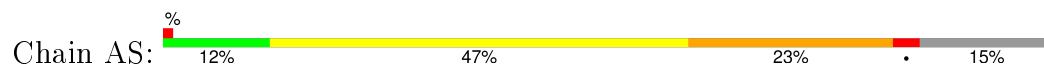
- Molecule 18: 30S RIBOSOMAL PROTEIN S18



- Molecule 18: 30S RIBOSOMAL PROTEIN S18

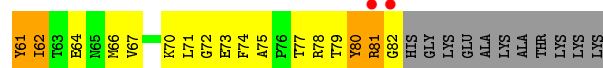
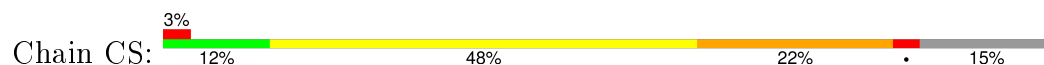


● Molecule 19: 30S RIBOSOMAL PROTEIN S19

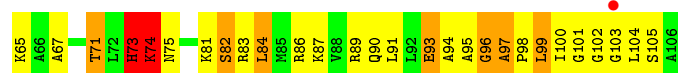
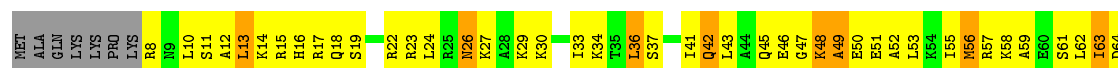




• Molecule 19: 30S RIBOSOMAL PROTEIN S19



● Molecule 20: 30S RIBOSOMAL PROTEIN S20



• Molecule 20: 30S RIBOSOMAL PROTEIN S20



• Molecule 21: 30S RIBOSOMAL PROTEIN THX

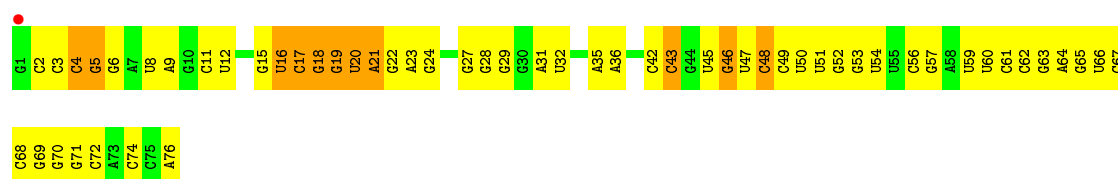


- Molecule 21: 30S RIBOSOMAL PROTEIN THX

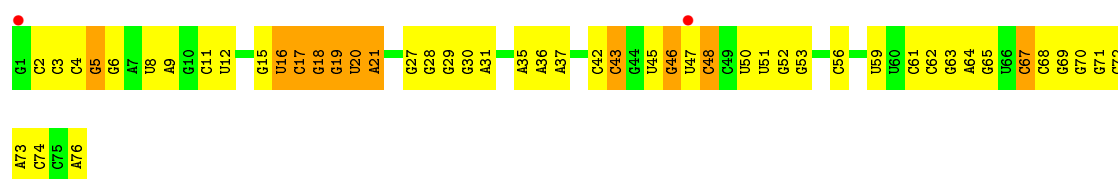


- Molecule 22: mRNA

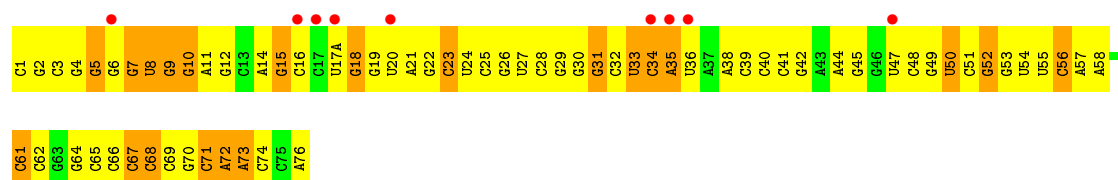
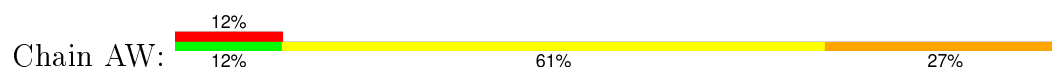




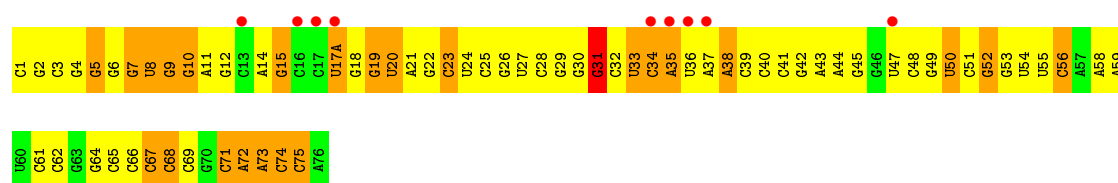
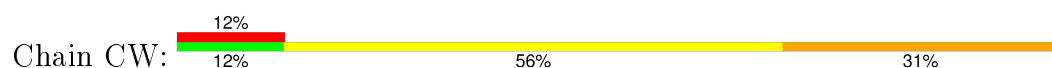
- Molecule 22: MRNA



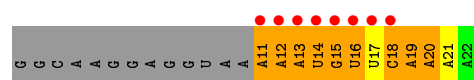
- Molecule 23: RNA



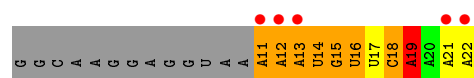
- Molecule 23: RNA



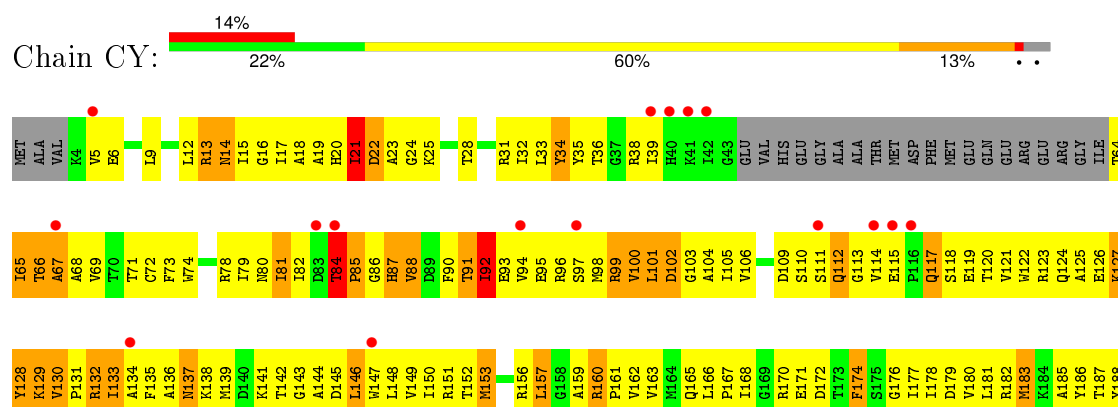
- Molecule 24: RNA

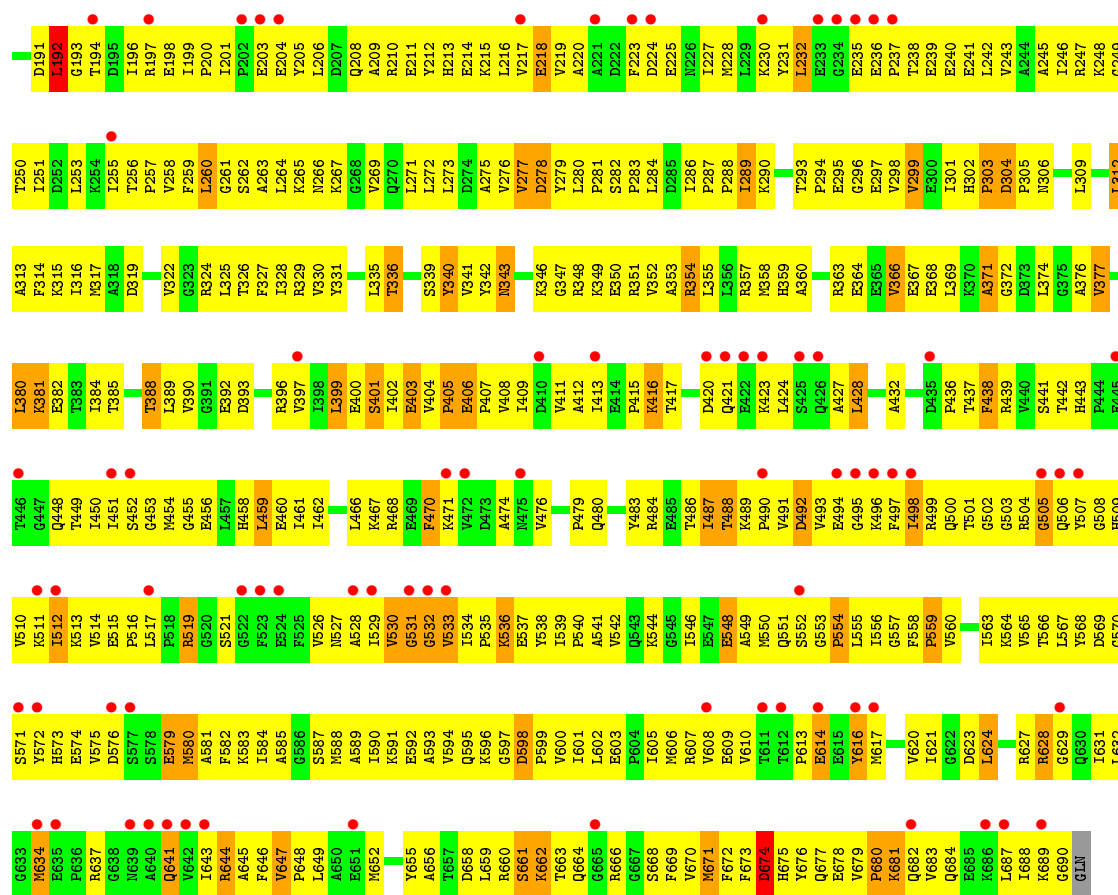


- Molecule 24: RNA

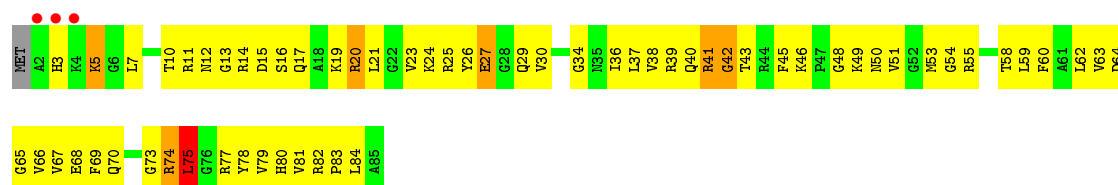


- Molecule 25: ELONGATION FACTOR G

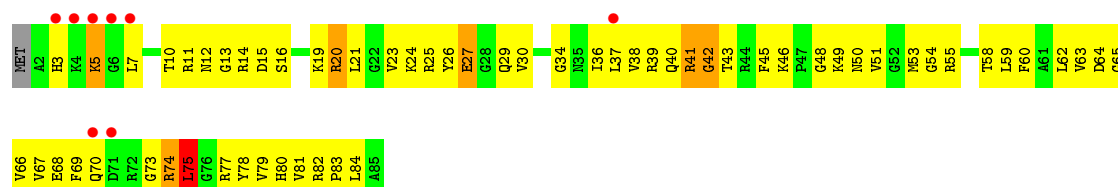




● Molecule 26: 50S RIBOSOMAL PROTEIN L27

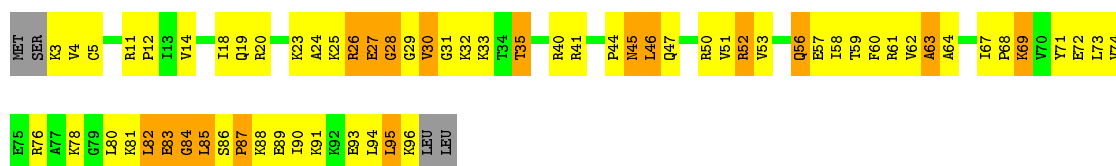


● Molecule 26: 50S RIBOSOMAL PROTEIN L27

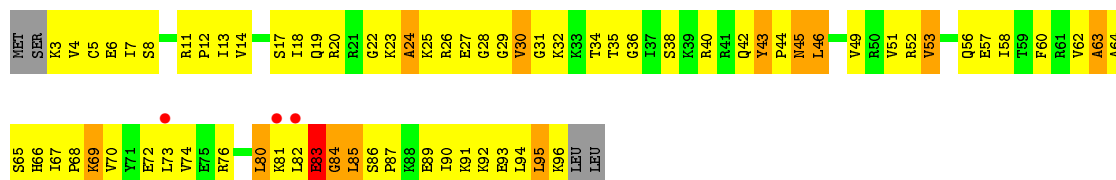


● Molecule 27: 50S RIBOSOMAL PROTEIN L28





• Molecule 27: 50S RIBOSOMAL PROTEIN L28



• Molecule 28: 50S RIBOSOMAL PROTEIN L29



• Molecule 28: 50S RIBOSOMAL PROTEIN L29



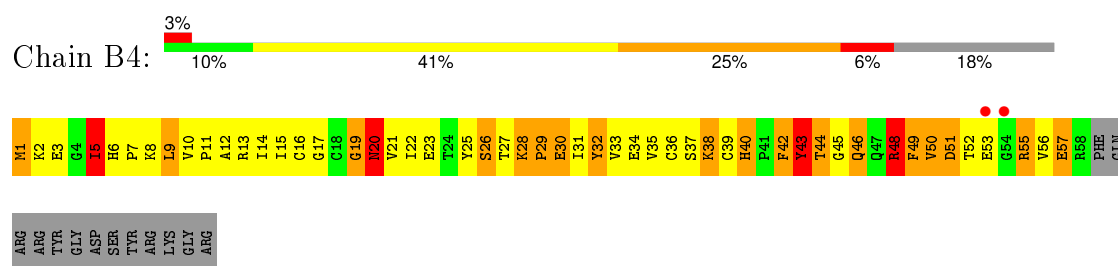
• Molecule 29: 50S RIBOSOMAL PROTEIN L30

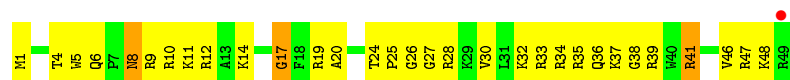


• Molecule 29: 50S RIBOSOMAL PROTEIN L30

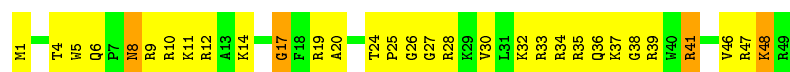


• Molecule 30: 50S RIBOSOMAL PROTEIN L31

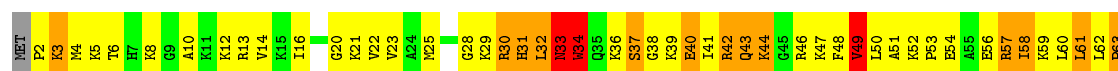




• Molecule 33: 50S RIBOSOMAL PROTEIN L34



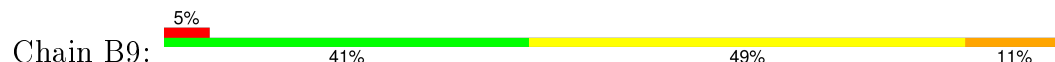
• Molecule 34: 50S RIBOSOMAL PROTEIN L35



• Molecule 34: 50S RIBOSOMAL PROTEIN L35



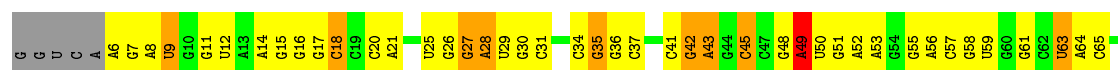
• Molecule 35: 50S RIBOSOMAL PROTEIN L36



• Molecule 35: 50S RIBOSOMAL PROTEIN L36

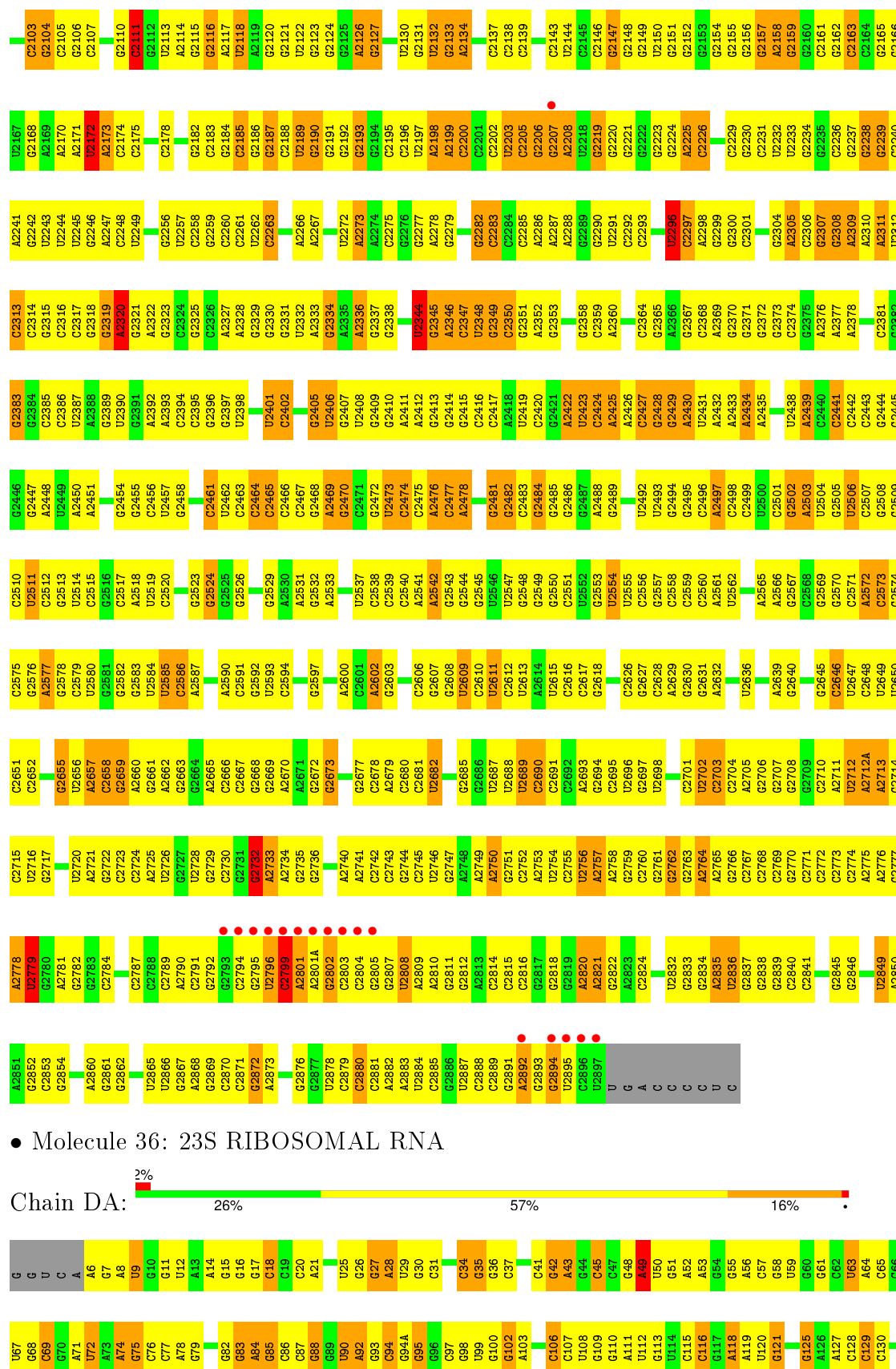


• Molecule 36: 23S RIBOSOMAL RNA



U969	A901	U833	G770	G704	G654B	G598	A526	U459	G307	U271E	A207	G68
C970	C902	C834	A773	A705	G654E	G598	C527	A460	A310	C271F	C208	C69
C971	C903	A835	A774	A706	C654F	C601	A528	A461	A311	G271G	C209	G70
C972	C904	G836	A775	G707	C654G	G602	A529	G462	G383	G271H	C210	A71
A973	U905	C837	G776	C708	G654H	A603	G530	G463	U384	G271I	G211	U72
G974	G906	G838	G777	U709	G654I	A604	C531	U464	C385	G271J	G212	A73
C975	U907	C839	A777	G710	A654J	G605	A532	G465	G386	U271K	A213	A74
G975A	C976	C840	G778	G711	G654K	U606	G533	G467	G387	U271L	G214	G75
G977	A910	A841	U779	G712	G654L	U607	U534	G468	C318	G271M	A216	C76
G978	C977	G780	G781	G713	C654M	A608	C541	G469	A320	U271N	C142	C77
G979	U913	C844	A782	A718	G654N	A609	G544	A472	G321	G271O	G143	A78
C915	C914	G845	A783	C719	G654O	G610	C545	G473	A322	A221	C143A	G79
G916	A980	C846	A784	C719	C654P	C611	A547	A474	G323	A222	C144	G82
A982	C982	G847	G785	A722	C654Q	C612	A548	U475	A324	A223	G145	G83
A983	A918	A849	G786	G723	G654R	G613	A549	U476	A325	G271P	G146	A84
C984	C917	C850	U787	G724	C654S	U614	G549	G478	G326	A225	C147	G85
C985	U922	G851	A788	G725	A654T	U614A	G551	A479	G327	G226	A149	C86
C986	C923	G852	A789	G726	G614B	A613	G552	A480	A227	A228	G87	C87
G987	C924	G853	C790	A727	A614C	G615	G553	A481	A229	A229	G88	G88
A988	C925	C857	G791	G728	G656	G616	U554	A482	U230	U230	C154A	U90
C989	A926	U858	G792	G729	U657	G617	U555	A483	U155	A233	U156	G93
A990	C927	G859	A793	C730	C658	G618	G556	A484	A234	C234	U157	G94
C991	G928	G860	G794	G731	C659	G619	U557	G485	A235	U235	U158	G94A
C992	C929	A861	C795	G732	G660	A621	G558	C486	A236	C236	G171	G95
G993	G932	G862	C796	G733	C661	G622	G559	G487	A237	G237	G172	G96
A996	A933	G863	G797	C737	G662	G623	C560	G488	A238	U243	G173	G97
C997	C934	A864	G798	G742	G663	G624	G561	G489	A239	G244	G174	G98
C998	C935	G864	G799	G743	C664	G625	U562	A501	A240	G245	G175	U99
C999	C936	G865	A800	G738	G665	U626	G563	A502	A241	A241	G176	G100
C1001	U937	G867	G801	U740	G666	A627	C564	A503	A242	G242	G177	G102
G1002	G938	U868	A802	G741	G667	G628	C565	A504	A243	A243	G178	A103
C1005	C939	G869	U803	G742	G668	G629	U566	A505	A244	G244	G179	G106
C1006	G940	A870	G804	G743	C671	A631	A567	U506	A245	G245	G180	C107
A1009	A943	C876	C806	G745	G672	G634	U569	A507	A246	G246	G184	U108
A1010	G944	U877	U807	A746	G673	C635	A571	A508	A247	C247	U185	G109
G1011	A945	A878	G808	U747	C674	C636	A572	U509	A248	G248	G186	G110
U1012	C946	G879	U810	G748	A675	A637	G573	U504	A249	C249	G187	A111
C1013	C947	G880	U811	C749	A676	G638	C574	A505	A251	A251	G188	U112
U1014	C948	G881	C812	A750	G680	U639	A575	A506	G252	G252	G189	G113
G1015	C949	G882	U813	A751	G681	C640	U576	A507	C253	C253	U190	U113
G1016	G950	C883	C814	C753	G682	C641	G577	C509	A254	A255	A191	C115
C1017	A953	C884	C815	C754	C683	G642	C581	U511	A256	A256	C192	C116
G1018	G954	C885	C816	C755	G684	A643	G582	U512	A257	G257	G117	G117
U1019	C955	A887	C817	C756	A685	A644	G583	G513	A258	G258	G118	A118
A1020	G956	C888	G818	U757	G686	A645	C584	A514	A259	A262	A195	A119
A1021	C957	C889	A821	C758	U688	A646	G585	A515	A260	C263	A196	U120
G1022	U958	A890	U822	G759	A689	G647	A586	C516	A261	C264	A197	G121
U1023	A959	G892	G823	G760	G689	G648	G587	C517	A262	A265	G198	G122
G1024	A960	C893	A824	U762	C690	C650	U588	G518	A263	G266	A199	G123
G1025	C961	C894	C825	G763	U694	G651	C589	U519	A264	C267	U200	G124
U1026	G962	U895	U826	A764	G695	C652	A590	U448	A265	C268	C201	G125
A1027	C963	A896	U827	G765	G696	A653	C591	A449	A266	U269	U202	A126
A1028	G964	C897	U828	C766	G592	A654	G592	G522	A267	C302	C203	A127
C1029	C965	A898	A829	U767	G593	G654A	G593	C523	A268	C271B	A204	G128
G1030	G966	A899	G830	G768	U594	G654B	U594	U524	A269	G304	C205	G129
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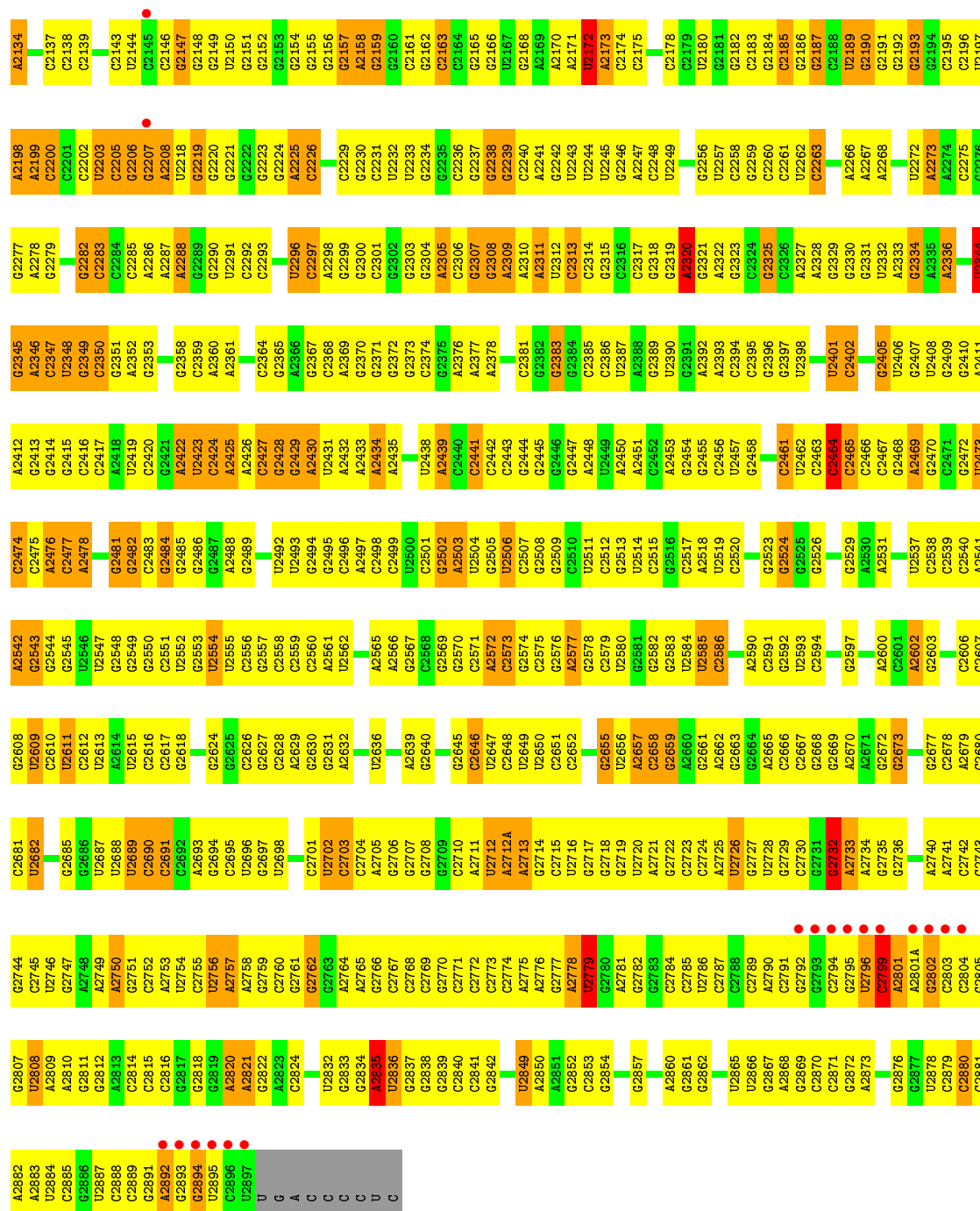
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A2031	C1800	G1883	C1800	G1718	A1636	C1566	G1491	G1424	A1354	A1287	C1221A	G1158	A1097	U1035
G2032	G1801	G1883	G1801	G1719	A1637	A1566	G1492		G1355	U1288	C1222	U1159	A1098	G1036
A2033	A1802	A1884	A1802	G1720	G1638	G1567	G1493	A1428	G1358	G1290	G1223	G1160	G1099	G1037
U2034	A1803	A1885	A1803	G1721	G1639	G1568	A1494	A1429	A1359	C1291	G1224	G1161	C1100	U1038
G2035	G1804	C1886	G1804	A1722	C1640	A1569	A1495	G1430	A1360	C1292		G1162	U1101	G1039
G2036	U1805	C1887	U1805	A1739	C1644		A1496	U1431	G1361	C1293		G1163	C1102	C1040
G2037		G1888		G1740		G1573	A1497	C1432	A1362		G1227	G1164	C1103	G1041
G2038	A1809	A1889	A1809	A1741		C1574		U1433	G1362		G1228	U1165	U1105	C1042
G2039	G1810		G1810		G1647	C1575	U1503	A1434	C1363	C1295		U1166	C1104	C1043
C2040	G1811		G1811	G1744	G1648	U1576	C1504	G1435	G1364	G1296	G1231	U1167	G1106	G1044
U2041	A1812	A1900	A1812	C1745	G1649	C1577	G1505	G1436	G1365	G1297	G1232	G1168	G1107	A1045
A2042	G1813	A1901	G1813		G1650	U1578	C1506		A1366	C1298	U1234	G1169	U1108	A1046
G2043	G1814		G1814	G1747A	G1651	A1579		U1437	A1367	G1299	G1235	G1170	C1109	G1047
G2044	C1902	G1903	C1902	G1748	A1652		C1509	U1438	G1368	U1300	G1236	G1171	C1110	A1048
G2045	G1815		G1815	A1749		G1582	A1509A	A1439	G1369	A1301	A1237	G1173	G1111	C1049
G2046	G1816	A1653	G1816		A1654	A1583	A1509B	G1440		G1306	G1238	A1174	A1112	A1050
G2049	G1817		G1817	G1754	A1655	C1584	G1510	G1441	G1374		G1239	U1175	U1113	G1051
C2050	U1818		U1818	A1755	A1656	A1586	C1511	G1442	C1375	A1307	U1240	G1176	G1114	C1052
A2051	A1819	G1908	A1819	G1756	C1657	A1587	U1512		C1376	A1308	U1241	A1177	G1115	C1053
G2052	G1909		G1909	U1757	C1658	C1588	C1513	A1445	G1377	A1309	A1242	G1178	C1116	A1054
G2053	A1821	G1910	A1821	G1758	U1659	C1589	U1514	C1445A	A1378	G1243	G1243	C1179	G1117	G1055
A2054	G1822	U1911	G1822	G1759	G1660	U1590	G1515	G1446	A1379	G1310	G1244	C1180	G1118	G1056
G2055	G1823	A1912	G1823	A1759	G1661	G1591	G1516	G1447	G1380	G1311	G1245		C1119	A1057
G2056	G1824		G1824	A1760	G1662	C1592	G1517	G1448	G1381	U1312	A1246		G1120	G1058
A2057	A1825	G1913	A1825	G1761	C1663	C1593		A1449	G1382	U1313	A1247	G1183	C1121	
G2060	G1826		G1826	A1762		G1594	G1519	G1450	C1383	C1314	G1248	G1184	G1122	U1060
A2061	C1827		C1827	G1763	G1666	G1595	G1520	A1450A	A1384	C1315	U1249	G1186	C1123	U1061
A2062	G1828		G1828	G1764	A1667	A1596	G1523	G1451	G1385	U1316	G1250	G1187	G1124	G1062
G2065	U1917		U1917		A1668	A1597	G1524	A1452	C1386	A1317	C1251	U1188	G1125	G1063
G2066	A1919		A1919	G1767	A1669	C1598	G1525	U1455	C1387	C1318	G1252	A1189	A1126	C1064
A2067	G1920		G1920	U1768	C1670	C1599	G1526	G1455	G1388		A1253	G1190	A1127	U1065
G2068	G1921		G1921	G1769	A1674	G1600	G1527		G1389	A1322	A1254	G1191	A1128	U1066
G2069	C1838		C1838	G1770	C1675	A1601	A1528A	G1459	U1390	G1325	U1255	G1192	A1067	U1067
G2070	G1839		G1839	C1771	A1676	G1601		A1460	U1391	U1326	G1256	G1193	A1132	A1068
A2071	U1841		U1841	A1773	A1677	G1605		G1461	A1395	C1257	C1257		U1133	A1070
G2072	G1842		G1842	C1774	A1677	G1606	G1531	C1462	U1396	C1258	C1258	G1196	C1135	
C2073	C1843		C1843	U1775	G1678	C1607	C1532	G1463	U1397	G1259	G1260	G1197	G1136	G1071
U2074	G1844		G1844	G1776	U1679	A1608	G1533	C1464		C1328		U1198	C1137	G1072
U2075	G1845		G1845	U1777	U1680	A1609	U1534	G1465	U1406	C1330	C1261	U1199	G1138	A1073
U2076	G1846		G1846	U1778	G1681	A1610	A1535	G1466	G1407	A1331	A1262	C1200	G1139	G1074
	A1847		A1847	U1779	G1682	C1611	G1536	C1467	C1401	G1332	U1263		G1140	C1075
U2011	G1848		G1848	U1780	C1683		G1537		C1402	C1333	U1264	G1203	C1140	C1076
G2012	G1849		G1849	C1781	C1684	A1614	G1538	A1472	C1403	G1334	A1265	A1204	U1141	A1077
A2013	G1850		G1850	C1782		C1615	G1539	G1473	C1404	U1335	G1266	U1205	U1142	
A2014	U1851		U1851	A1783	A1689	A1616	U1540	C1474	U1405	A1336	U1267	C1206	A1142A	C1080
A2015	C1852		C1852	A1784	A1690	C1617	G1541	G1475	U1406	G1337	A1268	C1207	A1143	U1081
U2016	G1853		G1853	A1785		A1618	A1542	C1476	G1407	G1338	A1269	C1208	G1144	U1082
U2017	G1856		G1856	A1786	G1684	G1619	C1543	A1477	C1408	G1339	C1270	G1209	C1145	U1083
G2018	G1857		G1857		G1685		A1544	G1478	C1409	U1340	G1271	A1210	C1146	
A2019	G1858		G1858	A1787		C1623	A1545	G1479	G1410	U1341	A1272	U1211	C1147	A1086
A2020	A1859		A1859	C1788	G1696	G1624	U1546	U1480	C1411		U1273	G1212	A1148	G1087
C2021	U1946		U1946	A1789	A1698	U1481		U1481		G1344	A1274	A1213	G1149	A1088
U2022	G1947		G1947	A1791	G1699	C1625		G1482	G1482	G1345	A1275	G1215	C1150	G1089
G2023	G1948		G1948			U1629	A1553	U1415	U1416	G1346	A1276	G1216	G1151	U1090
C2026	G1949		G1949	U1794		G1630	A1554	G1485	G1417	G1347	G1277	C1152	C1152	G1091
U2098	G1950		G1950	C1795	C1711		G1556	A1486		G1348	A1278	C1217	G1153	C1092
G2099	U1951		U1951	U1796		A1632	C1557	G1487		A1349	G1279	G1154	G1154	G1093
G2100	A1952		A1952	C1797	U1713	G1633	A1558	G1488	G1421			G1219	A1155	U1094



• Molecule 36: 23S RIBOSOMAL RNA

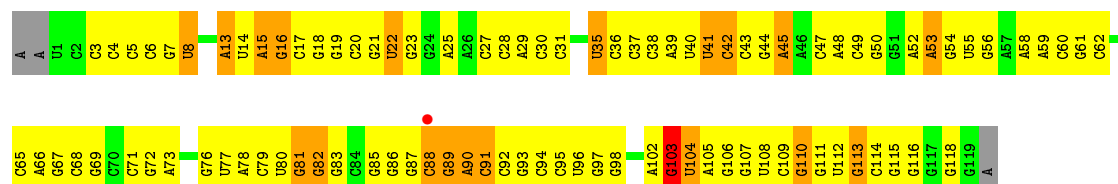




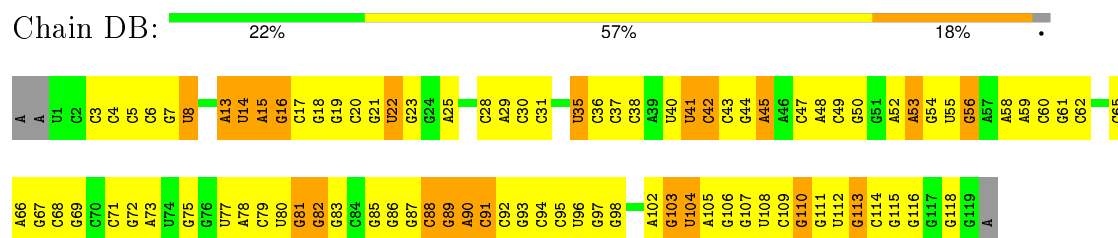


• Molecule 37: 5S RIBOSOMAL RNA

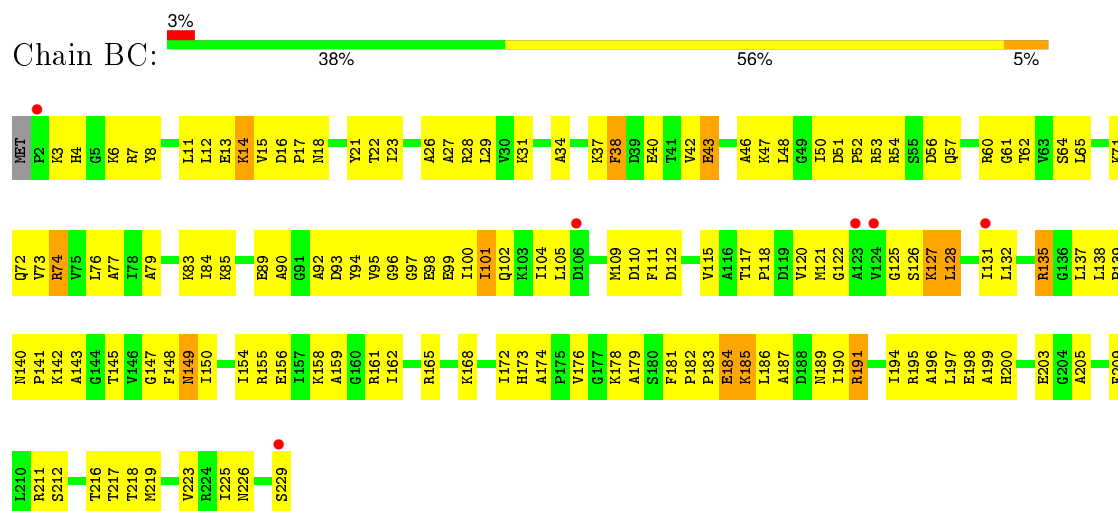
Chain BB: 20% 61% 16%



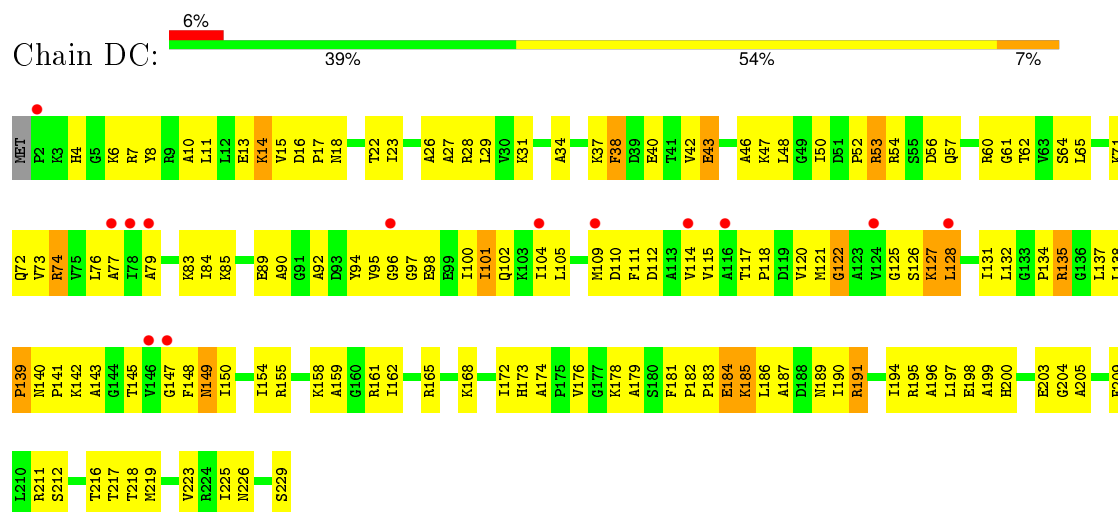
- Molecule 37: 5S RIBOSOMAL RNA



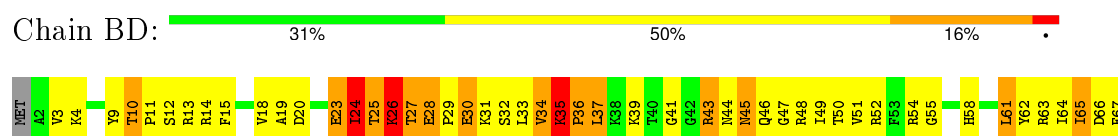
- Molecule 38: 50S RIBOSOMAL PROTEIN L1

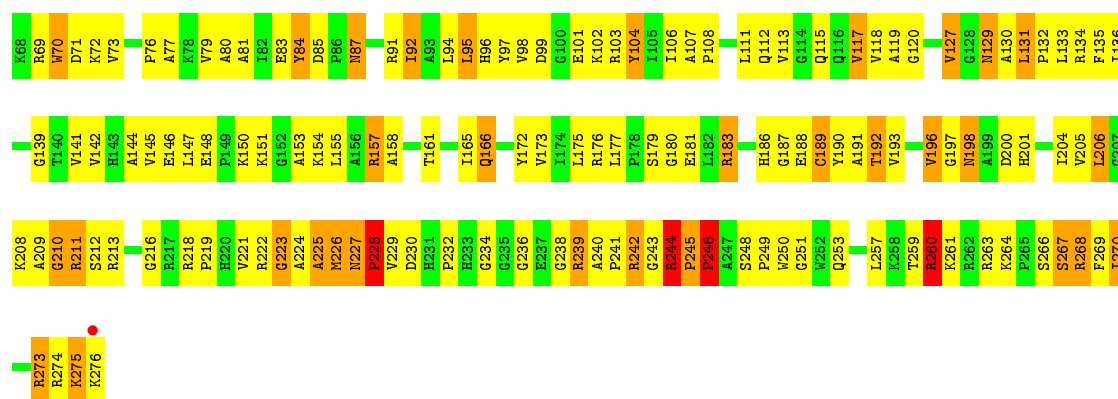


- Molecule 38: 50S RIBOSOMAL PROTEIN L1



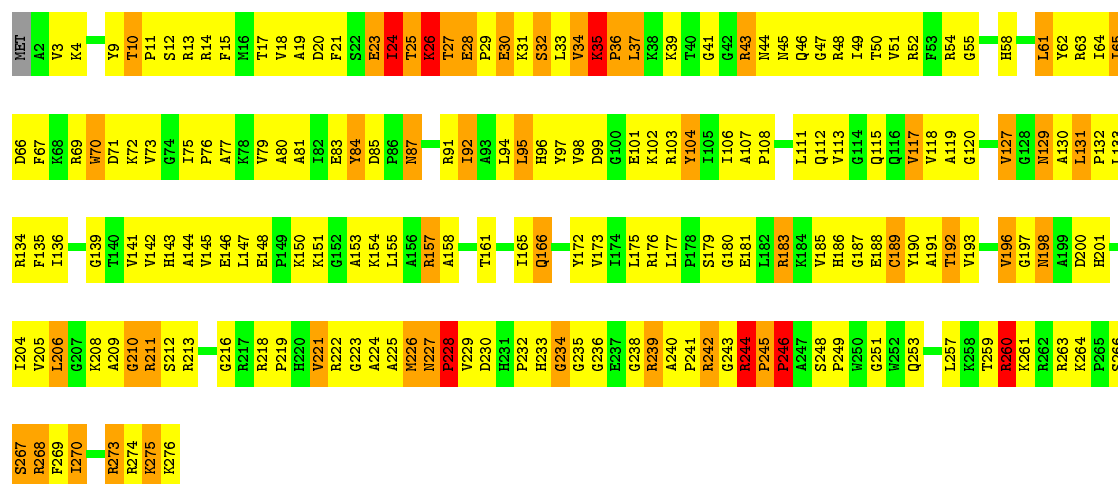
- Molecule 39: 50S RIBOSOMAL PROTEIN L2





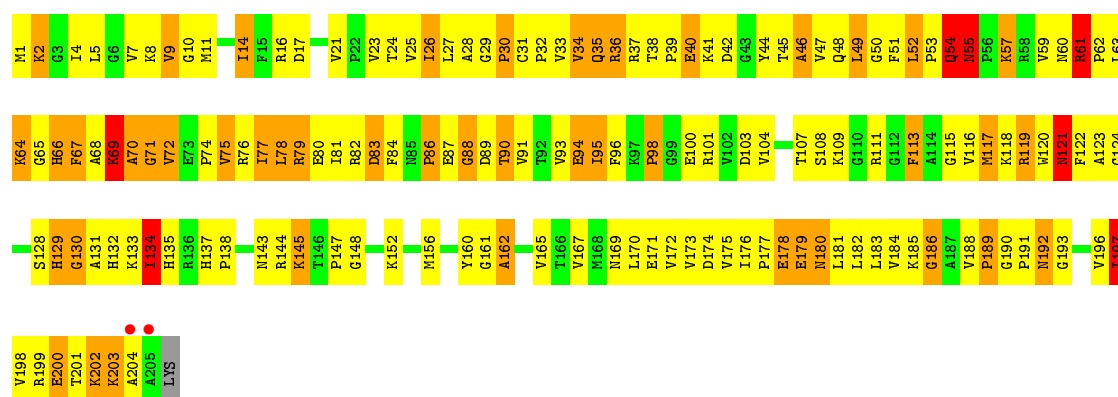
• Molecule 39: 50S RIBOSOMAL PROTEIN L2

Chain DD: 29% 52% 16%



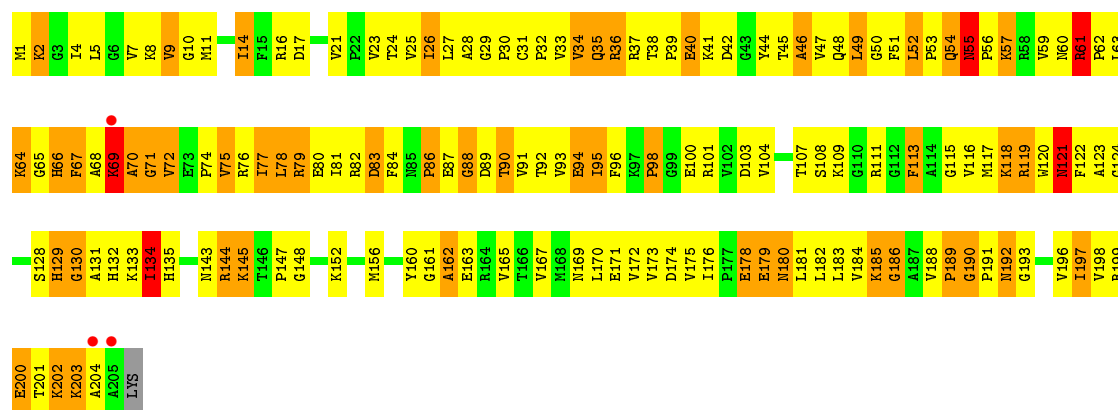
• Molecule 40: 50S RIBOSOMAL PROTEIN L3

Chain BE: 24% 50% 22%

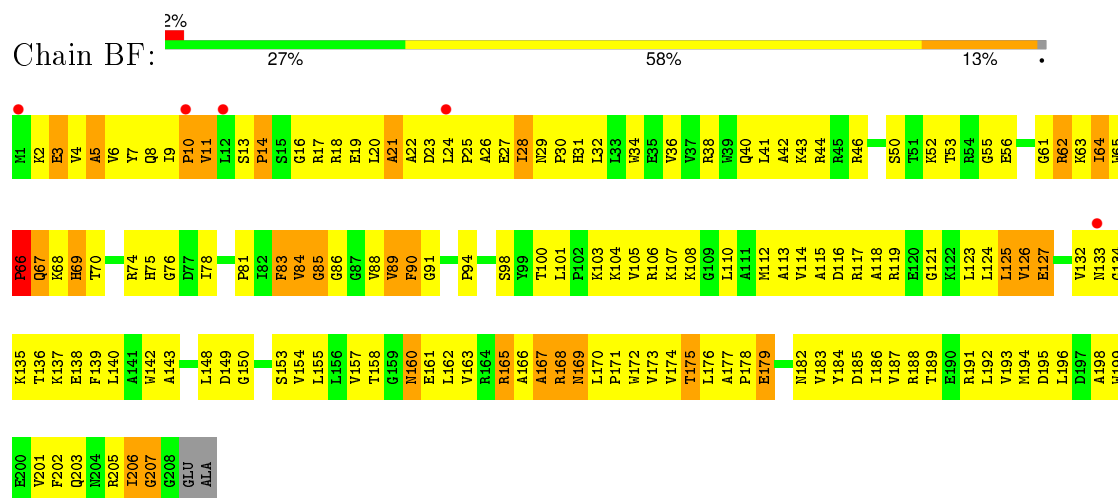


• Molecule 40: 50S RIBOSOMAL PROTEIN L3

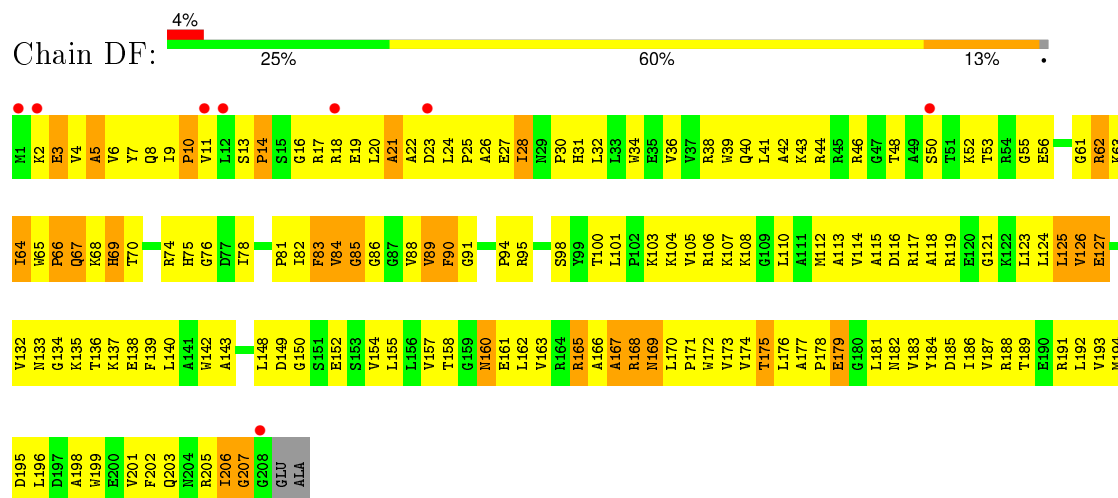
Chain DE: 24% 49% 24%



• Molecule 41: 50S RIBOSOMAL PROTEIN L4

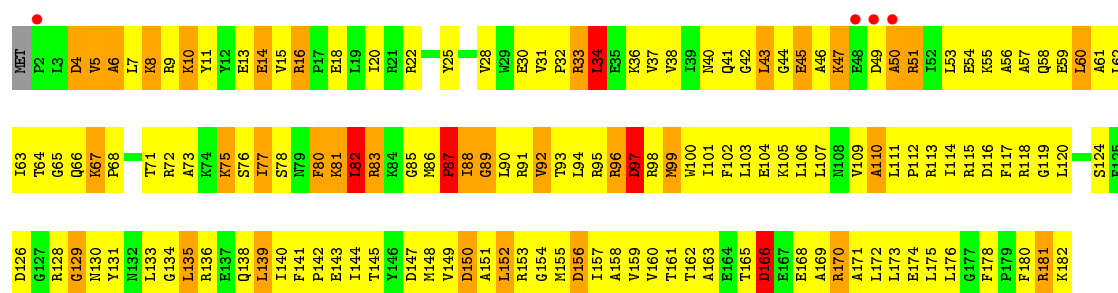


• Molecule 41: 50S RIBOSOMAL PROTEIN L4

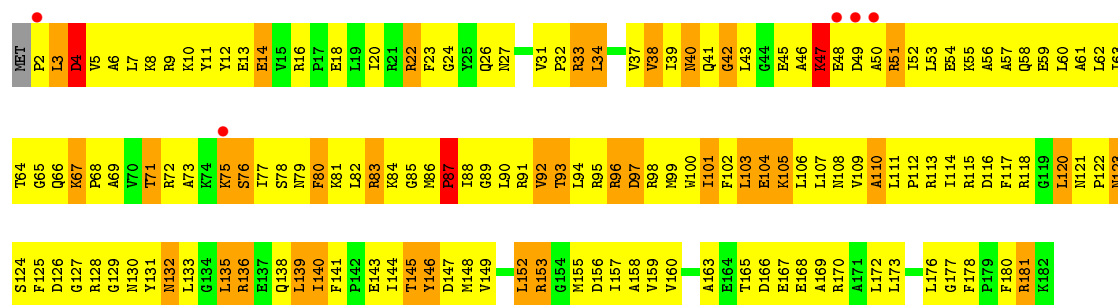


• Molecule 42: 50S RIBOSOMAL PROTEIN L5

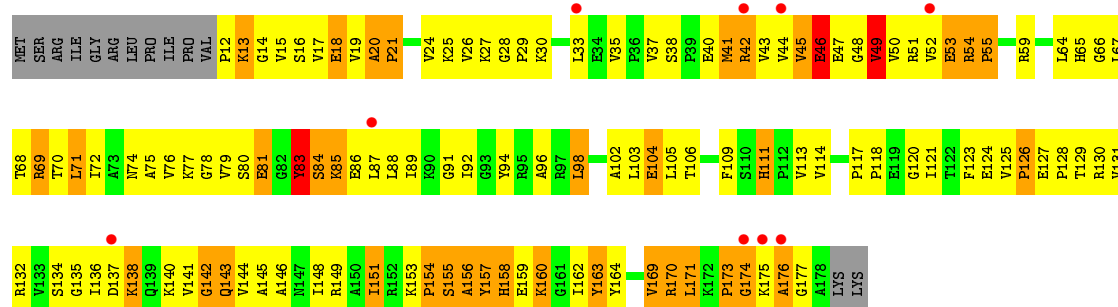


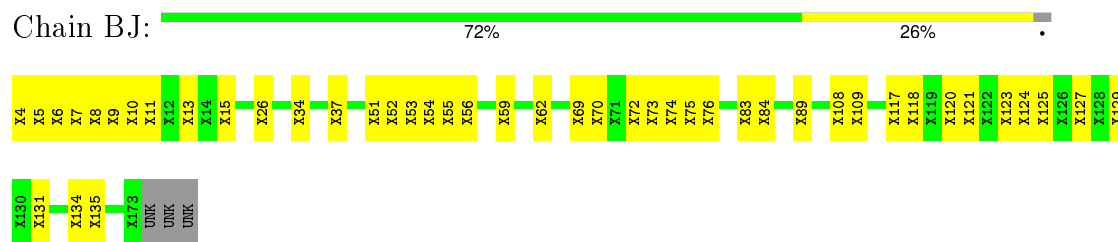


• Molecule 42: 50S RIBOSOMAL PROTEIN L5

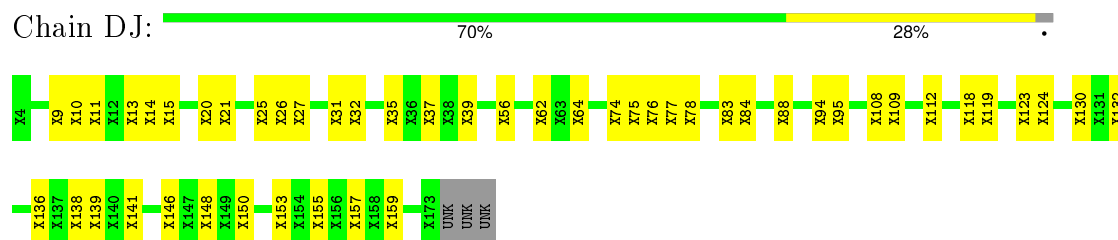


• Molecule 43: 50S RIBOSOMAL PROTEIN L6

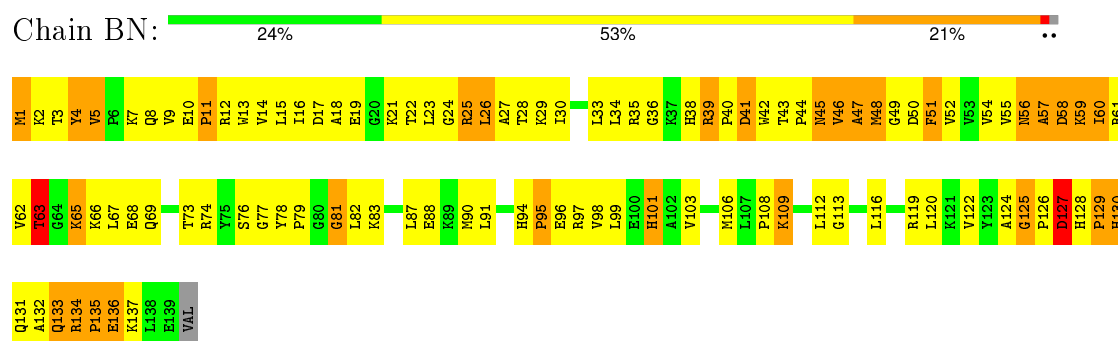




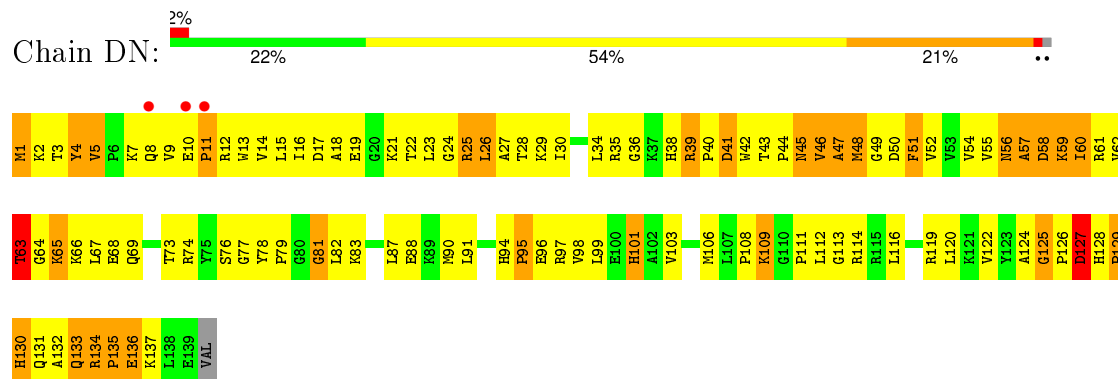
• Molecule 44: 50S RIBOSOMAL PROTEIN L10



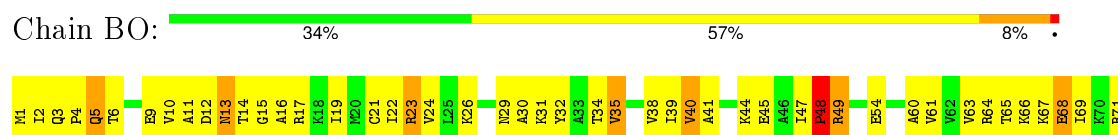
• Molecule 45: 50S RIBOSOMAL PROTEIN L13

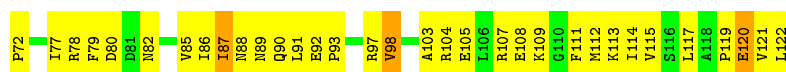


• Molecule 45: 50S RIBOSOMAL PROTEIN L13

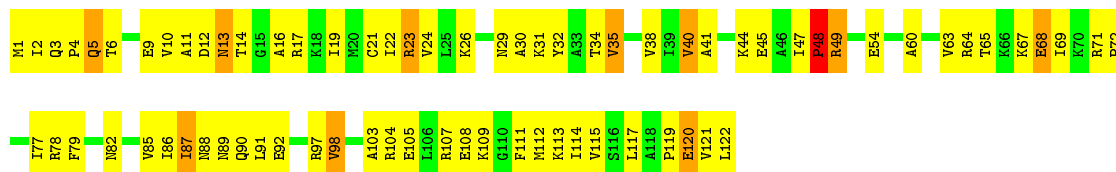


• Molecule 46: 50S RIBOSOMAL PROTEIN L14

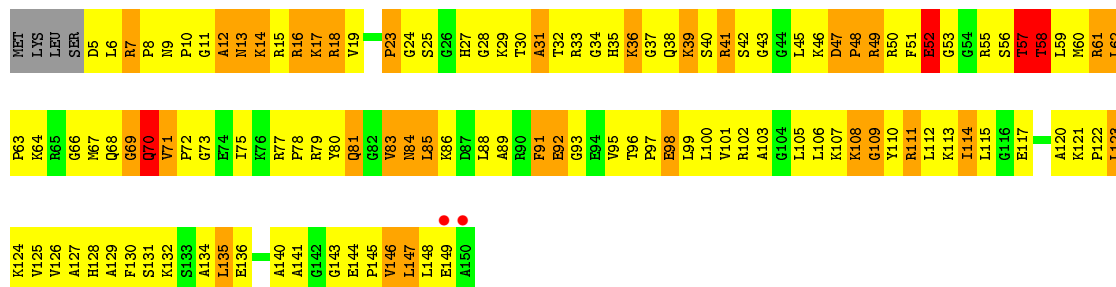
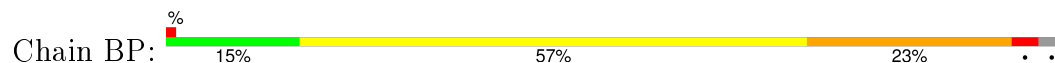




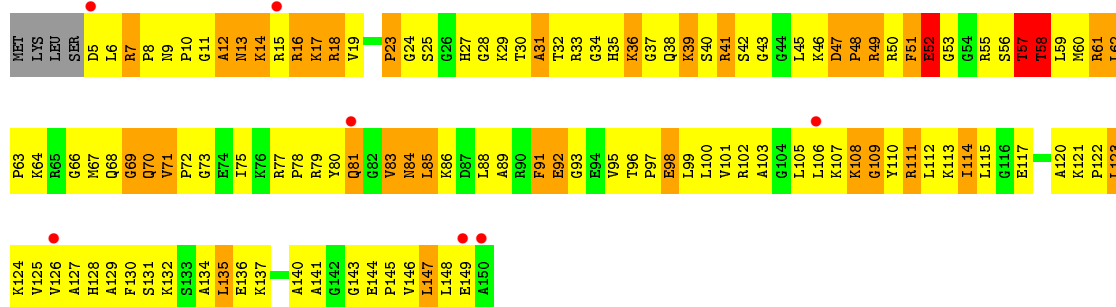
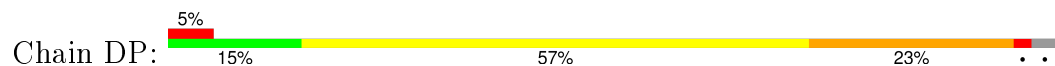
• Molecule 46: 50S RIBOSOMAL PROTEIN L14



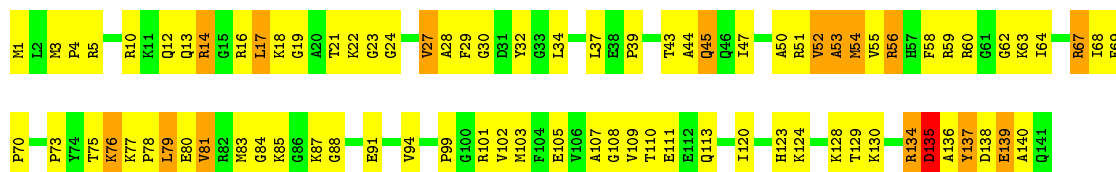
• Molecule 47: 50S RIBOSOMAL PROTEIN L15



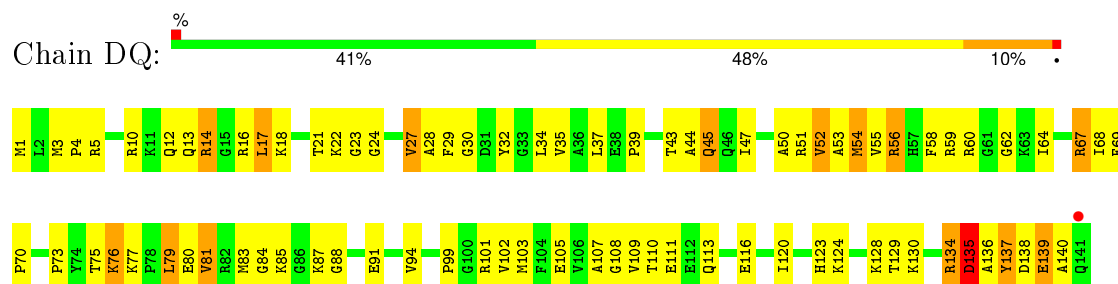
• Molecule 47: 50S RIBOSOMAL PROTEIN L15



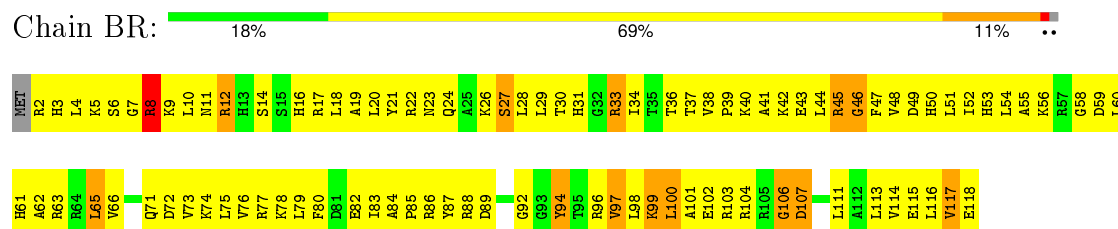
• Molecule 48: 50S RIBOSOMAL PROTEIN L16



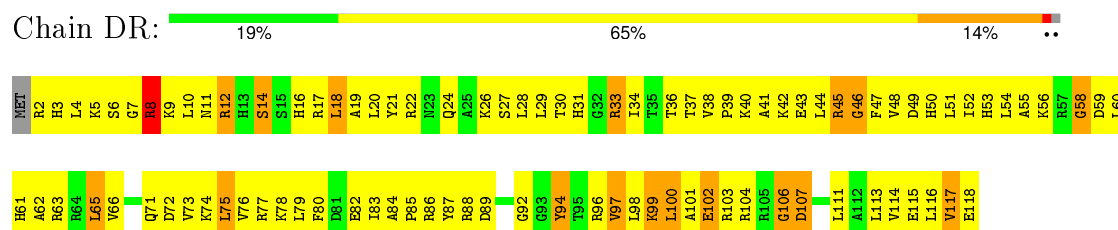
• Molecule 48: 50S RIBOSOMAL PROTEIN L16



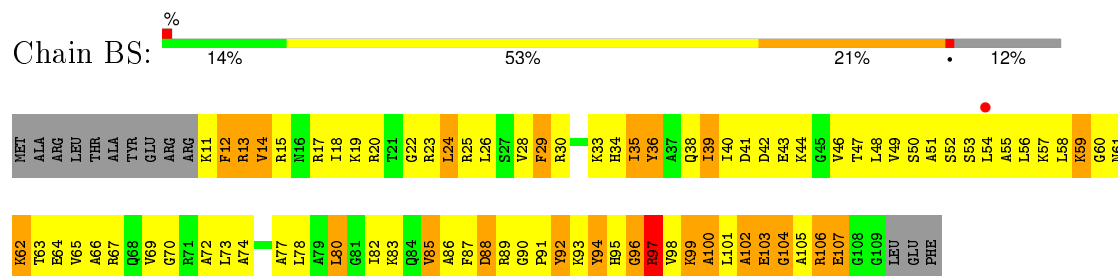
• Molecule 49: 50S RIBOSOMAL PROTEIN L17



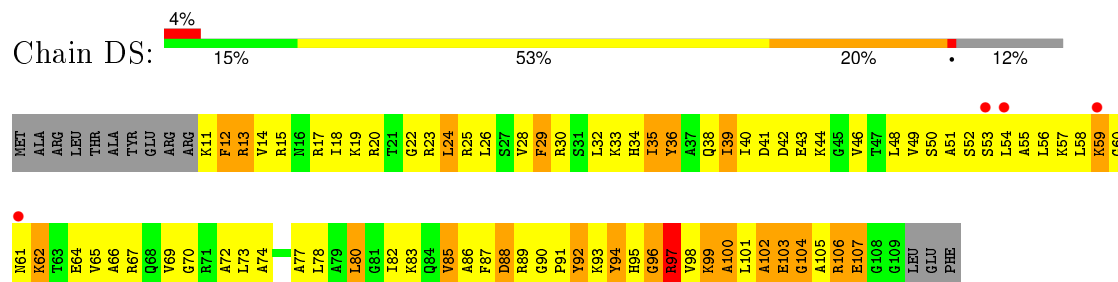
● Molecule 49: 50S RIBOSOMAL PROTEIN L17



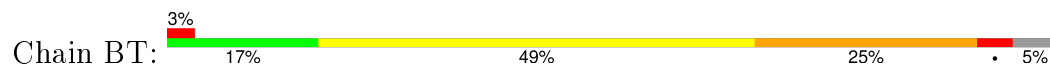
- Molecule 50: 50S RIBOSOMAL PROTEIN L18

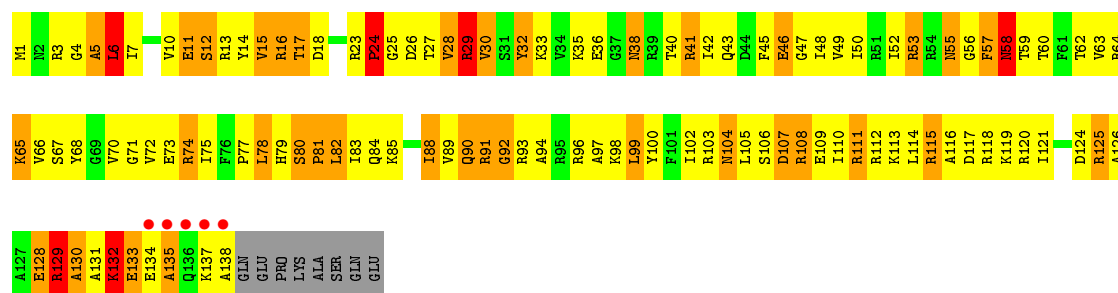


- Molecule 50: 50S RIBOSOMAL PROTEIN L18

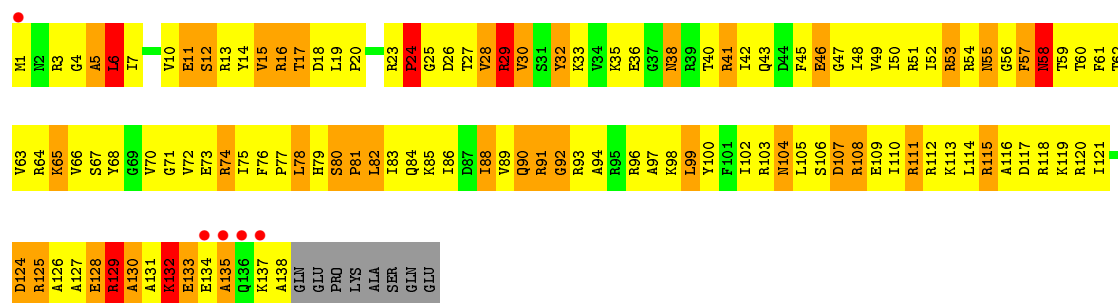
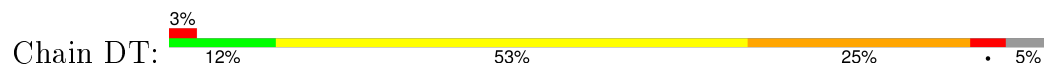


● Molecule 51: 50S RIBOSOMAL PROTEIN L19

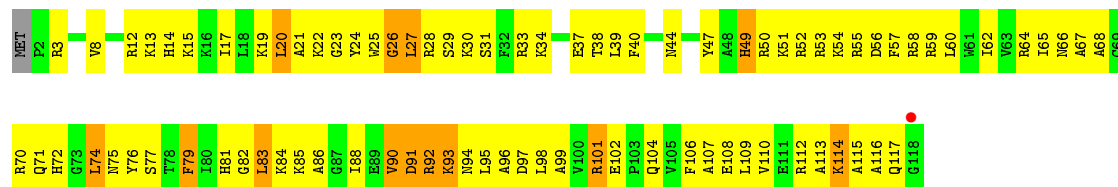




• Molecule 51: 50S RIBOSOMAL PROTEIN L19



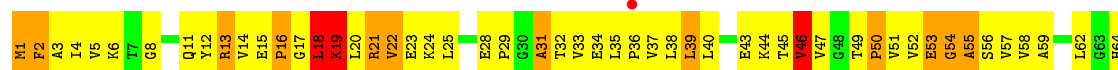
• Molecule 52: 50S RIBOSOMAL PROTEIN L20



• Molecule 52: 50S RIBOSOMAL PROTEIN L20

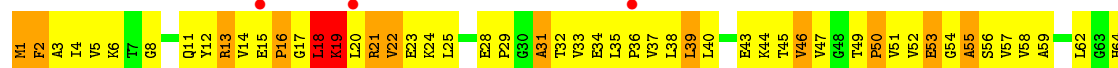


• Molecule 53: 50S RIBOSOMAL PROTEIN L21

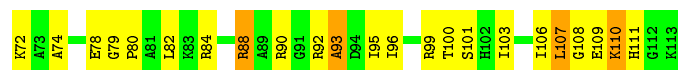
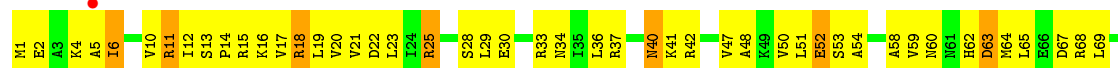
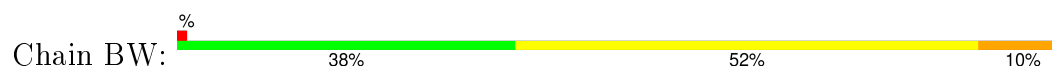




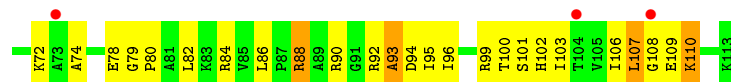
• Molecule 53: 50S RIBOSOMAL PROTEIN L21



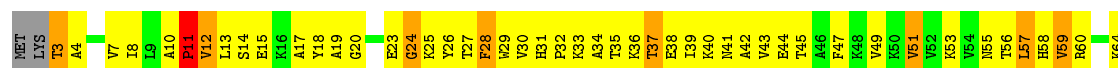
• Molecule 54: 50S RIBOSOMAL PROTEIN L22



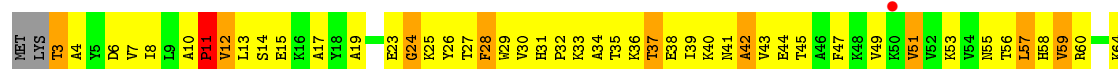
• Molecule 54: 50S RIBOSOMAL PROTEIN L22

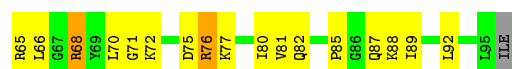


• Molecule 55: 50S RIBOSOMAL PROTEIN L23

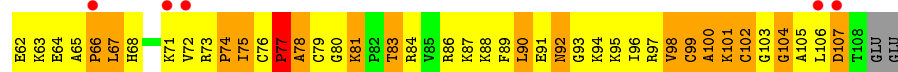
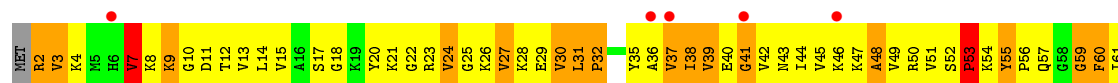
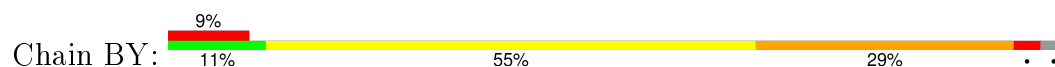


• Molecule 55: 50S RIBOSOMAL PROTEIN L23

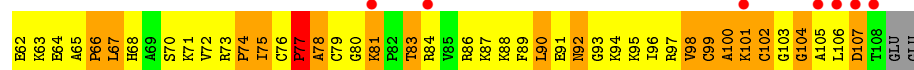
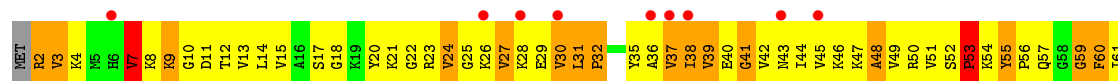
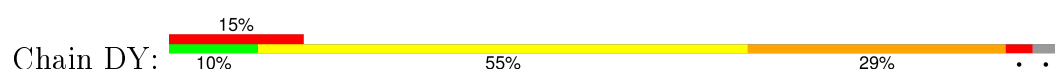




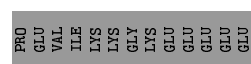
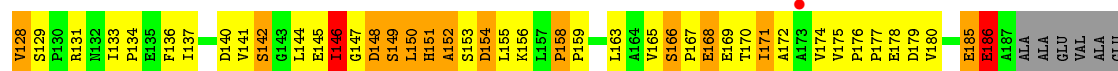
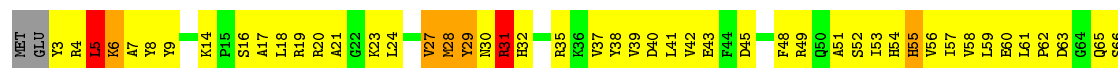
• Molecule 56: 50S RIBOSOMAL PROTEIN L24



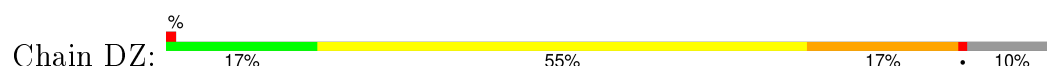
• Molecule 56: 50S RIBOSOMAL PROTEIN L24

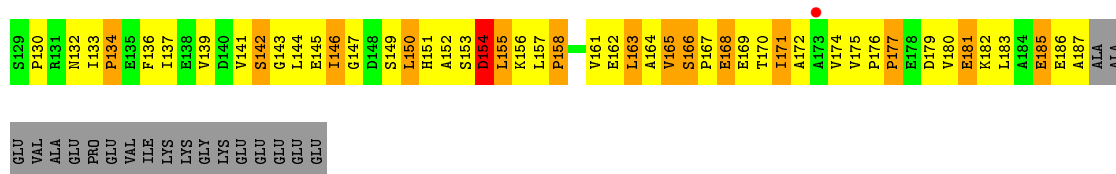


• Molecule 57: 50S RIBOSOMAL PROTEIN L25



• Molecule 57: 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	291.36Å 269.43Å 401.95Å 90.00° 91.78° 90.00°	Depositor
Resolution (Å)	49.75 – 3.70 49.75 – 3.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.75-3.70) 99.8 (49.75-3.40)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.47 (at 3.40Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.214 , 0.249 0.217 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	84.2	Xtriage
Anisotropy	0.051	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 96.9	EDS
Estimated twinning fraction	0.048 for h,-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.41$, $\langle L^2 \rangle = 0.24$	Xtriage
Outliers	0 of 846438 reflections	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	307606	wwPDB-VP
Average B, all atoms (Å ²)	102.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.34% 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	0.54	0/36190	0.74	23/56486 (0.0%)
1	CA	0.51	0/36190	0.74	16/56486 (0.0%)
2	AB	0.44	0/1936	0.67	0/2611
2	CB	0.41	0/1936	0.68	0/2611
3	AC	0.48	0/1637	0.64	0/2207
3	CC	0.43	0/1637	0.64	0/2207
4	AD	0.39	0/1733	0.65	0/2318
4	CD	0.39	0/1733	0.65	0/2318
5	AE	0.49	0/1163	0.68	0/1566
5	CE	0.50	0/1163	0.68	0/1566
6	AF	0.40	0/856	0.63	0/1154
6	CF	0.38	0/856	0.64	0/1154
7	AG	0.40	0/1276	0.60	0/1709
7	CG	0.38	0/1276	0.61	0/1709
8	AH	0.45	0/1136	0.71	0/1527
8	CH	0.43	0/1136	0.70	0/1527
9	AI	0.42	0/1027	0.67	0/1373
9	CI	0.40	0/1027	0.66	0/1373
10	AJ	0.45	0/808	0.69	0/1087
10	CJ	0.42	0/808	0.69	0/1087
11	AK	0.45	0/900	0.70	0/1213
11	CK	0.41	0/900	0.69	0/1213
12	AL	0.47	0/987	0.71	0/1322
12	CL	0.45	0/987	0.70	0/1322
13	AM	0.39	0/999	0.67	0/1338
13	CM	0.38	0/999	0.67	0/1338
14	AN	0.47	0/501	0.67	0/664
14	CN	0.45	0/501	0.67	0/664
15	AO	0.40	0/745	0.62	0/992
15	CO	0.39	0/745	0.62	0/992
16	AP	0.39	0/717	0.63	0/965
16	CP	0.40	0/717	0.62	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.47	0/837	0.66	0/1119
17	CQ	0.44	0/837	0.66	0/1119
18	AR	0.45	0/579	0.67	0/768
18	CR	0.46	0/579	0.68	0/768
19	AS	0.43	0/643	0.68	1/867 (0.1%)
19	CS	0.41	0/643	0.68	1/867 (0.1%)
20	AT	0.38	0/765	0.64	0/1007
20	CT	0.36	0/765	0.65	0/1007
21	AU	0.47	0/213	0.61	0/279
21	CU	0.46	0/213	0.62	0/279
22	AV	0.52	0/1809	0.70	0/2819
22	CV	0.46	0/1809	0.69	0/2819
23	AW	0.36	0/1810	0.70	0/2821
23	CW	0.95	2/1810 (0.1%)	0.68	0/2821
24	AX	0.38	0/288	0.72	0/446
24	CX	0.69	1/288 (0.3%)	0.85	1/446 (0.2%)
25	AY	0.47	0/5313	0.69	0/7195
25	CY	0.45	0/5313	0.68	0/7195
26	B0	0.40	0/671	0.66	0/892
26	D0	0.40	0/671	0.66	0/892
27	B1	0.42	0/739	0.71	0/983
27	D1	0.41	0/739	0.67	0/983
28	B2	0.32	0/600	0.64	0/793
28	D2	0.33	0/600	0.61	0/793
29	B3	0.40	0/473	0.59	0/636
29	D3	0.40	0/473	0.60	0/636
30	B4	0.47	0/461	0.83	1/623 (0.2%)
30	D4	0.48	0/461	0.83	1/623 (0.2%)
31	B5	0.37	0/473	0.69	0/639
31	D5	0.39	0/473	0.69	0/639
32	B6	0.62	0/440	0.94	2/586 (0.3%)
32	D6	0.56	0/440	0.93	2/586 (0.3%)
33	B7	0.43	0/427	0.68	0/563
33	D7	0.44	0/427	0.67	0/563
34	B8	0.54	0/516	0.83	0/681
34	D8	0.51	0/516	0.82	0/681
35	B9	0.42	0/310	0.65	0/407
35	D9	0.43	0/310	0.66	0/407
36	BA	0.50	3/69972 (0.0%)	0.74	35/109237 (0.0%)
36	DA	0.49	3/69972 (0.0%)	0.73	36/109237 (0.0%)
37	BB	0.41	0/2853	0.72	1/4451 (0.0%)
37	DB	0.41	0/2853	0.72	1/4451 (0.0%)
38	BC	0.55	1/1774 (0.1%)	0.61	0/2391

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DC	0.41	0/1774	0.60	0/2391
39	BD	0.47	0/2195	0.77	1/2955 (0.0%)
39	DD	0.46	0/2195	0.76	1/2955 (0.0%)
40	BE	0.44	0/1597	0.70	0/2155
40	DE	0.44	0/1597	0.70	0/2155
41	BF	0.37	0/1659	0.62	0/2246
41	DF	0.36	0/1659	0.62	0/2246
42	BG	0.41	0/1498	0.74	1/2013 (0.0%)
42	DG	0.38	0/1498	0.69	0/2013
43	BH	0.36	0/1293	0.67	0/1746
43	DH	0.36	0/1293	0.67	0/1746
45	BN	0.35	0/1132	0.68	0/1527
45	DN	0.35	0/1132	0.68	0/1527
46	BO	0.44	0/943	0.66	0/1269
46	DO	0.44	0/943	0.66	0/1269
47	BP	0.41	0/1131	0.87	3/1504 (0.2%)
47	DP	0.40	0/1131	0.87	3/1504 (0.2%)
48	BQ	0.43	0/1143	0.63	0/1527
48	DQ	0.43	0/1143	0.63	0/1527
49	BR	0.37	0/974	0.66	0/1302
49	DR	0.36	0/974	0.66	0/1302
50	BS	0.39	0/779	0.68	0/1038
50	DS	0.37	0/779	0.67	0/1038
51	BT	0.45	0/1156	0.77	1/1544 (0.1%)
51	DT	0.45	0/1156	0.77	1/1544 (0.1%)
52	BU	0.39	0/975	0.64	0/1297
52	DU	0.40	0/975	0.64	0/1297
53	BV	0.36	0/790	0.67	0/1057
53	DV	0.35	0/790	0.68	0/1057
54	BW	0.36	0/907	0.62	0/1216
54	DW	0.35	0/907	0.62	0/1216
55	BX	0.40	0/740	0.65	0/995
55	DX	0.41	0/740	0.64	0/995
56	BY	0.39	0/824	0.62	0/1100
56	DY	0.39	0/824	0.62	0/1100
57	BZ	0.44	0/1500	0.67	0/2037
57	DZ	0.41	0/1500	0.70	0/2037
All	All	0.48	10/331626 (0.0%)	0.72	132/494526 (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	1	26
1	CA	1	21
22	AV	0	1
36	BA	2	39
36	DA	2	37
All	All	6	124

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	CW	38	A	O3'-P	37.35	2.06	1.61
38	BC	54	ARG	C-N	-15.66	0.98	1.34
24	CX	19	A	O3'-P	-9.03	1.50	1.61
36	BA	272(I)	U	N1-C2	7.87	1.45	1.38
36	DA	272(I)	U	N1-C2	7.37	1.45	1.38
36	DA	2506	U	N1-C2	7.18	1.45	1.38
23	CW	31	G	O3'-P	7.01	1.69	1.61
36	BA	2506	U	N1-C2	6.81	1.44	1.38
36	BA	1041	C	N1-C2	5.67	1.45	1.40
36	DA	1041	C	N1-C2	5.63	1.45	1.40

All (132) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BA	1992	G	C2'-C3'-O3'	10.46	132.51	109.50
36	DA	1992	G	C2'-C3'-O3'	10.39	132.37	109.50
1	AA	1498	U	C2'-C3'-O3'	9.73	130.91	109.50
1	CA	1498	U	C2'-C3'-O3'	9.60	130.62	109.50
36	BA	1799	G	C2'-C3'-O3'	9.35	130.07	109.50
36	DA	1799	G	C2'-C3'-O3'	9.30	129.96	109.50
36	DA	1786	A	N9-C1'-C2'	8.88	125.55	114.00
36	DA	945	A	N9-C1'-C2'	8.65	125.24	114.00
1	AA	115	G	C2'-C3'-O3'	8.39	127.96	109.50
36	BA	1786	A	N9-C1'-C2'	8.37	124.88	114.00
1	CA	115	G	C2'-C3'-O3'	8.27	127.70	109.50
36	BA	945	A	N9-C1'-C2'	8.01	124.42	114.00
1	AA	1502	A	N9-C1'-C2'	7.98	124.38	114.00
36	BA	1156	A	N9-C1'-C2'	7.92	124.30	114.00
36	BA	2799	C	C2'-C3'-O3'	7.80	126.65	109.50
36	DA	1156	A	N9-C1'-C2'	7.79	124.13	114.00
36	DA	2799	C	C2'-C3'-O3'	7.79	126.63	109.50
47	DP	52	GLU	N-CA-C	7.55	131.38	111.00
47	BP	52	GLU	N-CA-C	7.52	131.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	533	A	C2'-C3'-O3'	7.49	125.97	109.50
1	CA	60	A	C2'-C3'-O3'	7.49	125.97	109.50
1	AA	60	A	C2'-C3'-O3'	7.36	125.69	109.50
1	AA	533	A	C2'-C3'-O3'	7.29	125.54	109.50
1	AA	328	C	C2'-C3'-O3'	7.23	125.41	109.50
1	CA	328	C	C2'-C3'-O3'	7.21	125.35	109.50
36	BA	2732	G	N9-C1'-C2'	7.15	123.29	114.00
1	CA	575	G	C2'-C3'-O3'	7.09	125.10	109.50
36	BA	1252	G	N9-C1'-C2'	7.07	123.19	114.00
36	BA	1379	A	N9-C1'-C2'	7.01	123.12	114.00
36	DA	1379	A	N9-C1'-C2'	7.01	123.12	114.00
37	BB	103	G	C5'-C4'-C3'	-6.98	104.83	116.00
36	DA	2732	G	N9-C1'-C2'	6.84	122.89	114.00
36	DA	1252	G	N9-C1'-C2'	6.77	122.80	114.00
1	CA	428	G	C2'-C3'-O3'	6.69	124.40	113.70
1	AA	428	G	C2'-C3'-O3'	6.67	124.37	113.70
30	D4	43	TYR	N-CA-C	6.62	128.86	111.00
36	BA	1236	G	N9-C1'-C2'	6.58	122.56	114.00
30	B4	43	TYR	N-CA-C	6.55	128.68	111.00
36	DA	2225	A	C2'-C3'-O3'	6.54	124.16	113.70
1	AA	575	G	C2'-C3'-O3'	6.54	124.16	113.70
36	DA	1236	G	N9-C1'-C2'	6.51	122.47	114.00
36	DA	945	A	O4'-C1'-N9	6.47	113.38	108.20
1	CA	366	C	C2'-C3'-O3'	6.46	124.04	113.70
36	BA	2225	A	C2'-C3'-O3'	6.43	123.99	113.70
1	AA	366	C	C2'-C3'-O3'	6.25	123.70	113.70
1	AA	1190	G	N9-C1'-C2'	6.23	122.09	114.00
47	BP	58	THR	N-CA-C	-6.22	94.19	111.00
47	DP	58	THR	N-CA-C	-6.17	94.34	111.00
36	BA	1493	C	N1-C1'-C2'	6.15	122.00	114.00
1	AA	1201	A	C2'-C3'-O3'	6.13	123.50	113.70
36	DA	748	G	N9-C1'-C2'	6.08	121.90	114.00
36	BA	945	A	O4'-C1'-N9	6.07	113.05	108.20
1	CA	1502	A	N9-C1'-C2'	6.04	121.85	114.00
37	DB	103	G	O5'-P-OP2	-5.99	100.31	105.70
36	DA	788	A	N9-C1'-C2'	5.98	121.78	114.00
19	AS	5	LEU	CA-CB-CG	5.96	129.02	115.30
36	BA	788	A	N9-C1'-C2'	5.96	121.75	114.00
36	DA	1493	C	N1-C1'-C2'	5.93	121.71	114.00
19	CS	5	LEU	CA-CB-CG	5.93	128.94	115.30
1	AA	921	U	C5'-C4'-C3'	-5.91	106.55	116.00
24	CX	19	A	OP2-P-O3'	5.87	118.12	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	DA	2111	C	N1-C1'-C2'	5.87	121.63	114.00
32	B6	23	THR	N-CA-C	5.87	126.85	111.00
36	BA	503	A	C2'-C3'-O3'	5.86	123.08	113.70
32	D6	23	THR	N-CA-C	5.84	126.78	111.00
1	CA	921	U	C5'-C4'-C3'	-5.84	106.66	116.00
36	BA	2111	C	N1-C1'-C2'	5.81	121.56	114.00
36	BA	2172	U	C2'-C3'-O3'	5.81	123.00	113.70
47	BP	53	GLY	N-CA-C	-5.81	98.58	113.10
47	DP	53	GLY	N-CA-C	-5.77	98.68	113.10
51	BT	29	ARG	N-CA-C	5.75	126.52	111.00
36	BA	2464	C	N1-C1'-C2'	-5.73	105.70	112.00
1	CA	1201	A	C2'-C3'-O3'	5.70	122.81	113.70
36	DA	2172	U	C2'-C3'-O3'	5.67	122.77	113.70
36	BA	1819	A	C2'-C3'-O3'	5.66	122.76	113.70
36	BA	1396	U	N1-C1'-C2'	5.62	121.30	114.00
36	DA	503	A	C2'-C3'-O3'	5.60	122.66	113.70
51	DT	29	ARG	N-CA-C	5.59	126.09	111.00
36	BA	1495	A	N9-C1'-C2'	5.57	121.24	114.00
36	BA	748	G	N9-C1'-C2'	5.56	121.23	114.00
1	CA	1190	G	N9-C1'-C2'	5.56	121.22	114.00
1	AA	1109	C	OP2-P-O3'	5.55	117.40	105.20
36	BA	49	A	C2'-C3'-O3'	5.49	122.49	113.70
36	DA	49	A	C2'-C3'-O3'	5.45	122.42	113.70
1	AA	1285	A	C2'-C3'-O3'	5.42	122.38	113.70
36	DA	2035	G	N9-C1'-C2'	5.42	121.05	114.00
36	DA	2655	G	C1'-O4'-C4'	-5.42	105.56	109.90
36	DA	1495	A	N9-C1'-C2'	5.42	121.04	114.00
1	AA	553	A	C5'-C4'-C3'	-5.41	107.35	116.00
36	BA	2035	G	N9-C1'-C2'	5.39	121.01	114.00
36	BA	845	G	N9-C1'-C2'	5.39	121.00	114.00
36	DA	1020	A	N9-C1'-C2'	5.38	121.00	114.00
36	DA	2464	C	N1-C1'-C2'	-5.37	106.10	112.00
36	BA	1237	A	N9-C1'-C2'	5.35	120.95	114.00
36	DA	845	G	N9-C1'-C2'	5.33	120.93	114.00
36	DA	1396	U	N1-C1'-C2'	5.31	120.91	114.00
36	BA	1020	A	N9-C1'-C2'	5.30	120.89	114.00
39	BD	210	GLY	N-CA-C	-5.30	99.85	113.10
32	D6	10	LEU	CA-CB-CG	5.29	127.46	115.30
1	CA	553	A	C5'-C4'-C3'	-5.28	107.56	116.00
36	BA	2779	U	C5'-C4'-C3'	-5.27	107.56	116.00
36	DA	1819	A	C2'-C3'-O3'	5.27	122.13	113.70
32	B6	10	LEU	CA-CB-CG	5.26	127.41	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	204	U	O4'-C1'-N1	5.25	112.40	108.20
42	BG	89	GLY	N-CA-C	-5.24	100.00	113.10
36	DA	2542	A	N9-C1'-C2'	5.20	120.76	114.00
1	AA	481	G	C5'-C4'-C3'	-5.20	107.68	116.00
1	AA	204	U	O4'-C1'-N1	5.19	112.35	108.20
36	BA	848	G	C5'-C4'-C3'	-5.18	107.71	116.00
1	AA	534	U	C5'-C4'-O4'	-5.17	102.89	109.10
36	BA	2511	U	C5'-C4'-C3'	-5.17	107.72	116.00
36	BA	2655	G	C1'-O4'-C4'	-5.17	105.76	109.90
36	DA	848	G	C5'-C4'-C3'	-5.14	107.77	116.00
1	AA	1505	G	N9-C1'-C2'	5.14	120.68	114.00
36	DA	2405	G	N9-C1'-C2'	5.12	120.66	114.00
1	AA	250	A	N9-C1'-C2'	5.11	120.65	114.00
1	AA	586	C	N1-C1'-C2'	-5.11	106.38	112.00
36	BA	2542	A	N9-C1'-C2'	5.10	120.63	114.00
1	AA	1065	U	N1-C1'-C2'	5.10	120.63	114.00
36	DA	1835	G	C5'-C4'-C3'	-5.09	107.85	116.00
1	AA	1049	U	N1-C1'-C2'	5.09	120.62	114.00
36	BA	1654	A	C5'-C4'-C3'	5.08	124.13	116.00
39	DD	210	GLY	N-CA-C	-5.08	100.40	113.10
36	DA	1799	G	C4'-C3'-O3'	5.08	123.16	113.00
36	DA	2779	U	C5'-C4'-C3'	-5.08	107.88	116.00
1	CA	586	C	N1-C1'-C2'	-5.06	106.43	112.00
36	DA	1313	U	N1-C1'-C2'	5.04	120.56	114.00
36	DA	1237	A	N9-C1'-C2'	5.03	120.54	114.00
36	DA	1654	A	C5'-C4'-C3'	5.03	124.05	116.00
36	BA	1313	U	N1-C1'-C2'	5.02	120.52	114.00
36	BA	1799	G	C4'-C3'-O3'	5.02	123.04	113.00
1	CA	1109	C	OP2-P-O3'	5.01	116.23	105.20

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1498	U	C3'
36	BA	1799	G	C3'
36	BA	1992	G	C3'
1	CA	1498	U	C3'
36	DA	1799	G	C3'
36	DA	1992	G	C3'

All (124) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1065	U	Sidechain
1	AA	1073	U	Sidechain
1	AA	1077	G	Sidechain
1	AA	108	G	Sidechain
1	AA	118	U	Sidechain
1	AA	1190	G	Sidechain
1	AA	1214	C	Sidechain
1	AA	1360	A	Sidechain
1	AA	1398	A	Sidechain
1	AA	1498	U	Sidechain
1	AA	1505	G	Sidechain
1	AA	1516	G	Sidechain
1	AA	1519	A	Sidechain
1	AA	1529	G	Sidechain
1	AA	202	U	Sidechain
1	AA	250	A	Sidechain
1	AA	436	C	Sidechain
1	AA	534	U	Sidechain
1	AA	586	C	Sidechain
1	AA	672	U	Sidechain
1	AA	727	G	Sidechain
1	AA	749	C	Sidechain
1	AA	760	G	Sidechain
1	AA	880	C	Sidechain
1	AA	898	G	Sidechain
1	AA	991	U	Sidechain
22	AV	4	C	Sidechain
36	BA	1156	A	Sidechain
36	BA	1162	G	Sidechain
36	BA	1236	G	Sidechain
36	BA	1252	G	Sidechain
36	BA	1300	U	Sidechain
36	BA	1379	A	Sidechain
36	BA	1496	A	Sidechain
36	BA	1619	G	Sidechain
36	BA	1623	G	Sidechain
36	BA	1647	G	Sidechain
36	BA	1690	A	Sidechain
36	BA	1772	G	Sidechain
36	BA	1791	A	Sidechain
36	BA	1802	A	Sidechain
36	BA	1907	G	Sidechain
36	BA	1952	A	Sidechain

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Mol	Chain	Res	Type	Group
36	BA	1985	G	Sidechain
36	BA	1992	G	Sidechain
36	BA	2009	G	Sidechain
36	BA	2031	A	Sidechain
36	BA	2033	A	Sidechain
36	BA	2052	G	Sidechain
36	BA	2061	G	Sidechain
36	BA	2296	U	Sidechain
36	BA	2320	A	Sidechain
36	BA	2344	U	Sidechain
36	BA	2401	U	Sidechain
36	BA	2405	G	Sidechain
36	BA	2569	G	Sidechain
36	BA	2659	G	Sidechain
36	BA	269	U	Sidechain
36	BA	2732	G	Sidechain
36	BA	2835	A	Sidechain
36	BA	463	G	Sidechain
36	BA	688	U	Sidechain
36	BA	746	A	Sidechain
36	BA	788	A	Sidechain
36	BA	845	G	Sidechain
36	BA	945	A	Sidechain
1	CA	1065	U	Sidechain
1	CA	1077	G	Sidechain
1	CA	108	G	Sidechain
1	CA	118	U	Sidechain
1	CA	1190	G	Sidechain
1	CA	1214	C	Sidechain
1	CA	1401	G	Sidechain
1	CA	1502	A	Sidechain
1	CA	1510	U	Sidechain
1	CA	1519	A	Sidechain
1	CA	1522	U	Sidechain
1	CA	1525	G	Sidechain
1	CA	189(G)	G	Sidechain
1	CA	250	A	Sidechain
1	CA	436	C	Sidechain
1	CA	586	C	Sidechain
1	CA	672	U	Sidechain
1	CA	749	C	Sidechain
1	CA	880	C	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	898	G	Sidechain
1	CA	991	U	Sidechain
36	DA	1156	A	Sidechain
36	DA	1162	G	Sidechain
36	DA	1236	G	Sidechain
36	DA	1238	G	Sidechain
36	DA	1252	G	Sidechain
36	DA	1300	U	Sidechain
36	DA	1379	A	Sidechain
36	DA	1619	G	Sidechain
36	DA	1623	G	Sidechain
36	DA	1647	G	Sidechain
36	DA	1690	A	Sidechain
36	DA	1772	G	Sidechain
36	DA	1802	A	Sidechain
36	DA	1907	G	Sidechain
36	DA	1930	G	Sidechain
36	DA	1952	A	Sidechain
36	DA	1992	G	Sidechain
36	DA	2009	G	Sidechain
36	DA	2031	A	Sidechain
36	DA	2033	A	Sidechain
36	DA	2052	G	Sidechain
36	DA	2061	G	Sidechain
36	DA	2320	A	Sidechain
36	DA	2344	U	Sidechain
36	DA	2401	U	Sidechain
36	DA	2464	C	Sidechain
36	DA	2569	G	Sidechain
36	DA	2659	G	Sidechain
36	DA	269	U	Sidechain
36	DA	2732	G	Sidechain
36	DA	2835	A	Sidechain
36	DA	2857	G	Sidechain
36	DA	463	G	Sidechain
36	DA	688	U	Sidechain
36	DA	788	A	Sidechain
36	DA	845	G	Sidechain
36	DA	945	A	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	1170	0
1	CA	32329	0	16318	1209	0
2	AB	1901	0	1951	223	0
2	CB	1901	0	1951	225	0
3	AC	1613	0	1677	185	0
3	CC	1613	0	1677	191	0
4	AD	1703	0	1763	171	0
4	CD	1703	0	1763	178	0
5	AE	1147	0	1207	115	0
5	CE	1147	0	1207	112	0
6	AF	843	0	857	76	0
6	CF	843	0	857	79	0
7	AG	1257	0	1296	89	0
7	CG	1257	0	1296	93	0
8	AH	1116	0	1177	89	0
8	CH	1116	0	1177	88	0
9	AI	1010	0	1035	139	0
9	CI	1010	0	1035	137	0
10	AJ	795	0	840	154	0
10	CJ	795	0	840	159	0
11	AK	885	0	904	56	0
11	CK	885	0	904	63	0
12	AL	971	0	1057	142	0
12	CL	971	0	1057	145	0
13	AM	988	0	1059	156	0
13	CM	988	0	1059	154	0
14	AN	492	0	529	64	0
14	CN	492	0	529	63	0
15	AO	734	0	771	69	0
15	CO	734	0	771	73	0
16	AP	701	0	720	66	0
16	CP	701	0	720	67	0
17	AQ	824	0	891	57	0
17	CQ	824	0	891	65	0
18	AR	574	0	644	79	0
18	CR	574	0	644	79	0
19	AS	630	0	652	106	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	CS	630	0	652	108	0
20	AT	763	0	861	97	0
20	CT	763	0	861	94	0
21	AU	209	0	221	18	0
21	CU	209	0	221	17	0
22	AV	1619	0	822	60	0
22	CV	1619	0	822	58	0
23	AW	1641	0	839	126	0
23	CW	1641	0	840	115	0
24	AX	257	0	130	45	0
24	CX	257	0	130	50	0
25	AY	5215	0	5288	857	0
25	CY	5215	0	5287	809	0
26	B0	662	0	688	98	0
26	D0	662	0	688	99	0
27	B1	732	0	808	126	0
27	D1	732	0	808	112	0
28	B2	598	0	653	84	0
28	D2	598	0	653	113	0
29	B3	468	0	523	59	0
29	D3	468	0	523	64	0
30	B4	451	0	449	93	0
30	D4	451	0	449	88	0
31	B5	459	0	480	101	0
31	D5	459	0	480	99	0
32	B6	433	0	461	150	0
32	D6	433	0	461	149	0
33	B7	419	0	467	38	0
33	D7	419	0	467	36	0
34	B8	508	0	576	96	0
34	D8	508	0	576	101	0
35	B9	307	0	335	30	0
35	D9	307	0	335	27	0
36	BA	62474	0	31497	2600	0
36	DA	62474	0	31497	2637	0
37	BB	2551	0	1295	132	0
37	DB	2551	0	1295	139	0
38	BC	1742	0	1797	158	0
38	DC	1742	0	1798	160	0
39	BD	2145	0	2234	304	0
39	DD	2145	0	2234	315	0
40	BE	1564	0	1629	249	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	DE	1564	0	1629	244	0
41	BF	1624	0	1677	237	0
41	DF	1624	0	1677	232	0
42	BG	1474	0	1534	241	0
42	DG	1474	0	1534	261	0
43	BH	1269	0	1337	178	0
43	DH	1269	0	1337	176	0
44	BJ	851	0	194	31	0
44	DJ	851	0	195	32	0
45	BN	1105	0	1180	183	0
45	DN	1105	0	1180	184	0
46	BO	933	0	996	109	0
46	DO	933	0	996	102	0
47	BP	1114	0	1187	296	0
47	DP	1114	0	1187	297	0
48	BQ	1122	0	1179	134	0
48	DQ	1122	0	1179	123	0
49	BR	960	0	1021	150	0
49	DR	960	0	1021	152	0
50	BS	771	0	832	153	0
50	DS	771	0	832	146	0
51	BT	1142	0	1202	242	0
51	DT	1142	0	1202	241	0
52	BU	958	0	1015	133	0
52	DU	958	0	1015	139	0
53	BV	779	0	852	140	0
53	DV	779	0	852	140	0
54	BW	896	0	953	100	0
54	DW	896	0	953	99	0
55	BX	726	0	778	79	0
55	DX	726	0	778	83	0
56	BY	811	0	901	175	0
56	DY	811	0	901	179	0
57	BZ	1468	0	1492	200	0
57	DZ	1468	0	1492	219	0
58	AD	1	0	0	0	0
58	AN	1	0	0	0	0
58	B4	1	0	0	0	0
58	B9	1	0	0	0	0
58	CD	1	0	0	0	0
58	CN	1	0	0	0	0
58	D4	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	D9	1	0	0	0	0
59	AY	37	0	47	15	0
59	CY	37	0	47	26	0
60	AY	28	0	12	13	0
60	CY	28	0	12	10	0
61	AY	1	0	0	0	0
61	CY	1	0	0	0	0
All	All	307606	0	211582	21259	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 41.

All (21259) 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)
38:BC:121:MET:CE	38:BC:121:MET:SD	2.02	1.48
23:CW:34:C:C3'	23:CW:35:A:H5''	1.42	1.47
38:DC:121:MET:CE	38:DC:121:MET:SD	2.02	1.46
38:DC:109:MET:CE	38:DC:109:MET:SD	2.03	1.44
23:AW:34:C:C3'	23:AW:35:A:H5''	1.42	1.44
22:CV:36:A:N1	24:CX:16:U:O4	1.61	1.32
36:DA:1378:A:O2'	36:DA:1379:A:H5''	1.39	1.23
24:CX:11:A:H4'	24:CX:12:A:C5'	1.69	1.23
24:AX:11:A:H4'	24:AX:12:A:C5'	1.69	1.21
23:AW:34:C:C2'	23:AW:35:A:H5''	1.71	1.20
36:BA:1378:A:O2'	36:BA:1379:A:H5''	1.42	1.20
23:CW:34:C:C2'	23:CW:35:A:H5''	1.71	1.19
36:DA:612:C:H2'	36:DA:613:G:H5''	1.21	1.18
36:BA:612:C:H2'	36:BA:613:G:H5''	1.22	1.17
24:AX:11:A:H4'	24:AX:12:A:H5'	1.24	1.17
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.10	1.17
36:DA:965:C:H5'	36:DA:2273:A:H1'	1.24	1.17
36:BA:965:C:H5'	36:BA:2273:A:H1'	1.25	1.17
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.24	1.16
42:DG:46:ALA:HB2	42:DG:88:ILE:HB	1.23	1.16
2:CB:168:THR:HG23	2:CB:192:SER:HB3	1.17	1.16
55:BX:12:VAL:HB	55:BX:17:ALA:HB1	1.28	1.15
36:BA:1884:A:H2'	36:BA:1885:A:H5''	1.19	1.15
41:DF:40:GLN:HE22	41:DF:182:ASN:HB2	1.11	1.15
57:DZ:20:ARG:HH11	57:DZ:20:ARG:HB2	1.12	1.14
24:CX:11:A:H4'	24:CX:12:A:H5'	1.24	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:42:PRO:HB3	30:B4:50:VAL:HG21	1.28	1.14
59:CY:701:FUA:H5	59:CY:701:FUA:H202	1.29	1.14
25:AY:84:THR:H	25:AY:85:PRO:HD2	1.09	1.14
41:BF:3:GLU:HA	41:BF:24:LEU:HG	1.26	1.14
1:CA:1503:A:C2	24:CX:11:A:C2	2.35	1.13
41:DF:167:ALA:HB1	41:DF:173:VAL:HG11	1.26	1.13
1:CA:979:C:H3'	1:CA:980:C:H5''	1.20	1.13
41:BF:167:ALA:HB1	41:BF:173:VAL:HG11	1.27	1.13
23:CW:38:A:O3'	23:CW:39:C:P	2.06	1.13
25:CY:490:PRO:HG3	25:CY:516:PRO:HD2	1.30	1.12
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.22	1.12
25:CY:146:LEU:HD12	25:CY:167:PRO:HD3	1.30	1.12
24:AX:11:A:H1'	24:AX:12:A:N7	1.65	1.12
25:CY:510:VAL:HA	25:CY:570:GLY:HA3	1.28	1.12
36:BA:1747(A):G:H2'	36:BA:1748:G:H5''	1.30	1.12
41:DF:3:GLU:HA	41:DF:24:LEU:HG	1.24	1.11
53:BV:15:GLU:HB3	53:BV:16:PRO:HD2	1.26	1.11
36:DA:1747(A):G:H2'	36:DA:1748:G:H5''	1.30	1.11
23:AW:34:C:H2'	23:AW:35:A:O4'	1.50	1.11
36:DA:1884:A:H2'	36:DA:1885:A:H5''	1.19	1.11
1:AA:979:C:H3'	1:AA:980:C:H5''	1.20	1.11
25:AY:281:PRO:HB2	25:AY:286:ILE:HD11	1.22	1.11
24:CX:11:A:H1'	24:CX:12:A:N7	1.65	1.11
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.30	1.11
13:CM:124:PRO:HG2	25:CY:574:GLU:H	1.13	1.11
36:DA:2133:G:H2'	36:DA:2157:G:H22	1.16	1.11
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.12	1.11
33:B7:19:ARG:HD3	36:BA:125:G:H5'	1.30	1.11
1:AA:1503:A:N1	24:AX:11:A:C2	2.19	1.10
23:AW:34:C:H3'	23:AW:35:A:C5'	1.81	1.10
27:B1:3:LYS:HG3	27:B1:4:VAL:H	1.14	1.10
36:DA:2645:G:H3'	36:DA:2646:C:H5'	1.31	1.10
36:DA:2012:G:H4'	54:DW:96:ILE:HD11	1.18	1.10
55:DX:12:VAL:HB	55:DX:17:ALA:HB1	1.24	1.10
36:BA:2584:U:H2'	36:BA:2585:U:H5'	1.32	1.10
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.27	1.10
45:BN:48:MET:H	45:BN:48:MET:HE2	1.00	1.10
36:BA:2483:C:H3'	36:BA:2484:G:H5''	1.34	1.10
36:DA:2473:U:H3'	36:DA:2474:C:H5''	1.13	1.10
23:CW:34:C:H2'	23:CW:35:A:O4'	1.50	1.10
43:DH:12:PRO:HD3	43:DH:49:VAL:HG12	1.34	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:99:LYS:HD3	49:DR:99:LYS:H	1.10	1.10
42:DG:76:SER:HB2	42:DG:83:ARG:HB3	1.13	1.09
23:CW:34:C:H3'	23:CW:35:A:C5'	1.81	1.09
25:CY:546:ILE:HG21	25:CY:565:VAL:HG21	1.35	1.09
43:BH:12:PRO:HD3	43:BH:49:VAL:HG12	1.34	1.09
59:AY:701:FUA:H5	59:AY:701:FUA:H202	1.29	1.09
40:BE:38:THR:HG22	40:BE:40:GLU:H	1.13	1.09
25:CY:491:VAL:HG13	25:CY:596:LYS:HE2	1.33	1.09
49:BR:99:LYS:HD3	49:BR:99:LYS:H	1.09	1.09
36:BA:2473:U:H3'	36:BA:2474:C:H5''	1.14	1.09
36:BA:2012:G:H4'	54:BW:96:ILE:HD11	1.17	1.09
23:CW:34:C:C3'	23:CW:35:A:C5'	2.31	1.08
36:DA:1043:C:H2'	36:DA:1044:G:H5''	1.33	1.08
23:AW:3:C:H2'	23:AW:4:G:H5''	1.24	1.08
36:BA:2133:G:H2'	36:BA:2157:G:N2	1.69	1.08
1:CA:793:U:H3'	1:CA:794:A:H5''	1.30	1.08
25:CY:499:ARG:HB2	25:CY:506:GLN:HB3	1.21	1.08
56:DY:76:CYS:HB3	56:DY:96:ILE:HD11	1.36	1.08
55:BX:12:VAL:HG23	55:BX:13:LEU:H	1.16	1.08
36:BA:996:A:H4'	52:BU:92:ARG:HE	1.17	1.08
40:DE:38:THR:HG22	40:DE:40:GLU:H	1.16	1.08
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.35	1.07
56:BY:76:CYS:HB3	56:BY:96:ILE:HD11	1.36	1.07
47:BP:30:THR:HG22	47:BP:31:ALA:H	1.16	1.07
36:BA:1043:C:H2'	36:BA:1044:G:H5''	1.31	1.07
56:DY:76:CYS:SG	56:DY:77:PRO:HD2	1.93	1.07
36:BA:2133:G:H2'	36:BA:2157:G:H22	1.18	1.07
57:BZ:69:THR:HG22	57:BZ:90:VAL:HA	1.30	1.07
29:D3:31:LEU:HD13	29:D3:32:GLN:HG2	1.34	1.07
53:DV:15:GLU:HB3	53:DV:16:PRO:HD2	1.29	1.07
23:AW:34:C:C3'	23:AW:35:A:C5'	2.31	1.07
36:DA:2483:C:H3'	36:DA:2484:G:H5''	1.33	1.07
45:BN:9:VAL:HG11	45:BN:39:ARG:HH22	1.15	1.07
55:DX:12:VAL:HG23	55:DX:13:LEU:H	1.15	1.06
56:BY:76:CYS:SG	56:BY:77:PRO:HD2	1.94	1.06
36:BA:2645:G:H3'	36:BA:2646:C:H5'	1.32	1.06
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.37	1.06
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.19	1.06
25:AY:468:ARG:HH11	25:AY:468:ARG:HB3	1.12	1.06
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.14	1.06
45:DN:48:MET:H	45:DN:48:MET:HE2	1.01	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:7:G:H2'	37:BB:8:U:H5''	1.33	1.06
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.16	1.06
36:DA:2584:U:H2'	36:DA:2585:U:H5'	1.34	1.06
57:BZ:151:HIS:HB3	57:BZ:170:THR:HA	1.37	1.06
55:BX:35:THR:HG22	55:BX:37:THR:H	1.20	1.06
36:DA:2133:G:H2'	36:DA:2157:G:N2	1.68	1.06
42:BG:63:ILE:HA	42:BG:143:GLU:HG3	1.33	1.06
2:AB:168:THR:HG23	2:AB:192:SER:HB3	1.17	1.06
36:BA:940:G:H5'	36:BA:941:A:OP2	1.56	1.06
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.16	1.05
36:BA:1845:G:H2'	36:BA:1846:G:H5''	1.38	1.05
33:D7:19:ARG:HD3	36:DA:125:G:H5'	1.29	1.05
1:CA:1503:A:C2	24:CX:11:A:H2	1.73	1.05
25:AY:21:ILE:H	25:AY:21:ILE:HD13	1.20	1.05
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.08	1.05
41:DF:8:GLN:HB3	41:DF:126:VAL:HA	1.35	1.05
47:DP:30:THR:HG22	47:DP:31:ALA:H	1.16	1.05
1:AA:793:U:H3'	1:AA:794:A:H5''	1.30	1.05
41:BF:40:GLN:HE22	41:BF:182:ASN:HB2	1.13	1.05
25:CY:136:ALA:HB3	25:CY:260:LEU:HB3	1.35	1.05
36:DA:240:G:H3'	36:DA:241:A:H5''	1.39	1.05
43:BH:98:LEU:HB2	43:BH:125:VAL:HG21	1.39	1.05
40:DE:117:MET:HA	40:DE:122:PHE:H	1.15	1.04
29:B3:31:LEU:HD13	29:B3:32:GLN:HG2	1.38	1.04
37:DB:7:G:H2'	37:DB:8:U:H5''	1.33	1.04
36:BA:2723:C:H5''	49:BR:2:ARG:HH11	1.22	1.04
57:DZ:10:ARG:HD2	57:DZ:36:LYS:HE2	1.39	1.04
34:D8:33:ASN:H	34:D8:33:ASN:ND2	1.48	1.04
13:CM:108:ARG:HA	13:CM:108:ARG:HH11	1.22	1.04
31:B5:56:LYS:HG3	31:B5:57:VAL:H	1.21	1.04
25:AY:485:GLU:HG3	25:AY:553:GLY:HA3	1.40	1.04
34:D8:33:ASN:N	34:D8:33:ASN:HD22	1.51	1.04
34:B8:33:ASN:N	34:B8:33:ASN:HD22	1.51	1.04
13:AM:69:GLU:HG2	30:B4:43:TYR:OH	1.55	1.04
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.40	1.04
36:DA:1747(A):G:C2'	36:DA:1748:G:H5''	1.88	1.04
28:D2:4:SER:HA	28:D2:7:ARG:HH12	1.20	1.04
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.40	1.04
43:DH:98:LEU:HB2	43:DH:125:VAL:HG21	1.39	1.04
36:BA:272(G):C:H2'	36:BA:272(H):C:H5''	1.39	1.04
41:BF:8:GLN:HB3	41:BF:126:VAL:HA	1.34	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:68:PRO:HA	42:DG:92:VAL:HG13	1.40	1.03
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.19	1.03
36:BA:240:G:H3'	36:BA:241:A:H5''	1.38	1.03
1:CA:1399:C:H4'	1:CA:1400:C:C5'	1.88	1.03
36:DA:1845:G:H2'	36:DA:1846:G:H5''	1.38	1.03
2:AB:223:ILE:HG12	2:AB:226:ARG:NH2	1.73	1.03
36:DA:1803:A:O3'	39:DD:259:THR:HG21	1.58	1.03
56:DY:8:LYS:HB2	56:DY:28:LYS:NZ	1.73	1.03
45:DN:9:VAL:HG11	45:DN:39:ARG:HH22	1.14	1.03
25:AY:293:THR:HA	25:AY:397:VAL:HG12	1.40	1.03
57:DZ:69:THR:HG22	57:DZ:90:VAL:HA	1.38	1.03
36:DA:211:A:H2'	36:DA:212:G:H5''	1.38	1.03
42:DG:51:ARG:HE	42:DG:51:ARG:HA	1.20	1.03
41:DF:24:LEU:HB3	41:DF:25:PRO:HD2	1.41	1.03
55:DX:35:THR:HG22	55:DX:37:THR:H	1.18	1.03
29:B3:29:ARG:HB2	29:B3:29:ARG:HH11	1.24	1.03
56:BY:8:LYS:HB2	56:BY:28:LYS:NZ	1.73	1.03
55:BX:35:THR:HB	55:BX:38:GLU:HB2	1.39	1.03
27:D1:44:PRO:HG2	27:D1:46:LEU:HD21	1.33	1.03
36:BA:1884:A:C2'	36:BA:1885:A:H5''	1.88	1.02
36:DA:996:A:H4'	52:DU:92:ARG:HE	1.15	1.02
25:AY:490:PRO:HG3	25:AY:516:PRO:HD2	1.40	1.02
29:D3:17:LYS:HG2	36:DA:969:U:OP1	1.60	1.02
30:B4:1:MET:SD	42:BG:98:ARG:HG3	1.98	1.02
25:CY:157:LEU:HD23	25:CY:157:LEU:H	1.22	1.02
36:BA:1747(A):G:C2'	36:BA:1748:G:H5''	1.87	1.02
1:AA:1489:G:H2'	1:AA:1490:C:H5''	1.39	1.02
25:AY:85:PRO:HA	25:AY:94:VAL:HG22	1.39	1.01
39:BD:131:LEU:HB2	39:BD:136:ILE:HD11	1.39	1.01
23:CW:14:A:H3'	23:CW:15:G:H5''	1.36	1.01
50:DS:13:ARG:HG3	50:DS:14:VAL:H	1.24	1.01
42:DG:121:ASN:HB3	42:DG:124:SER:HB2	1.41	1.01
25:CY:289:ILE:HG22	25:CY:290:LYS:H	0.89	1.01
36:BA:1301:A:O2'	36:BA:1302:A:H2'	1.60	1.01
36:DA:940:G:H5'	36:DA:941:A:OP2	1.59	1.01
22:AV:36:A:N1	24:AX:16:U:O4	1.93	1.01
25:CY:289:ILE:HG22	25:CY:290:LYS:N	1.73	1.01
40:BE:117:MET:HA	40:BE:122:PHE:H	1.20	1.01
45:BN:57:ALA:H	45:BN:124:ALA:HA	1.25	1.01
39:DD:166:GLN:HE21	39:DD:166:GLN:HA	1.25	1.01
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:28:ARG:HB3	32:B6:28:ARG:HH11	1.26	1.01
25:CY:223:PHE:HB3	25:CY:248:LYS:HD3	1.38	1.01
25:CY:546:ILE:HG23	25:CY:590:ILE:HG13	1.43	1.01
36:DA:1884:A:C2'	36:DA:1885:A:H5''	1.90	1.01
55:DX:35:THR:HB	55:DX:38:GLU:HB2	1.38	1.01
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.40	1.01
31:D5:56:LYS:HG3	31:D5:57:VAL:H	1.22	1.01
51:BT:125:ARG:HH11	51:BT:125:ARG:HA	1.26	1.01
32:D6:28:ARG:HB3	32:D6:28:ARG:HH11	1.25	1.00
23:CW:3:C:H2'	23:CW:4:G:H5''	1.41	1.00
32:D6:41:PRO:HD2	32:D6:45:LYS:O	1.61	1.00
38:DC:28:ARG:HG3	38:DC:28:ARG:HH11	1.21	1.00
25:CY:439:ARG:H	25:CY:452:SER:HB3	1.22	1.00
25:CY:289:ILE:CG2	25:CY:290:LYS:H	1.71	1.00
25:AY:621:ILE:HG23	25:AY:631:ILE:HG12	1.39	1.00
2:CB:223:ILE:HG12	2:CB:226:ARG:NH2	1.75	1.00
42:DG:111:LEU:HA	42:DG:114:ILE:HD11	1.41	1.00
25:CY:539:ILE:HD12	25:CY:567:LEU:HD21	1.43	1.00
32:D6:28:ARG:NH1	32:D6:28:ARG:HB3	1.77	1.00
36:DA:2068:U:H3	36:DA:2430:A:H2	1.03	1.00
36:BA:2262:U:H2'	36:BA:2263:C:H5'	1.43	1.00
36:DA:612:C:C2'	36:DA:613:G:H5''	1.91	1.00
40:BE:111:ARG:HA	49:BR:2:ARG:HB3	1.42	1.00
56:DY:28:LYS:HB3	56:DY:37:VAL:HB	1.44	1.00
49:BR:38:VAL:HB	49:BR:39:PRO:HD3	1.44	1.00
56:BY:46:LYS:H	56:BY:62:GLU:HB2	1.26	1.00
36:DA:1061:U:H4'	36:DA:1070:A:H1'	1.44	1.00
41:BF:24:LEU:HB3	41:BF:25:PRO:HD2	1.42	1.00
36:DA:1899:G:N2	36:DA:1902:C:H41	1.59	1.00
36:BA:1803:A:O3'	39:BD:259:THR:HG21	1.61	1.00
23:CW:34:C:C2'	23:CW:35:A:C5'	2.40	1.00
36:DA:1452:A:H3'	36:DA:1453:U:H5''	1.40	1.00
36:DA:272(G):C:H2'	36:DA:272(H):C:H5''	1.39	1.00
23:AW:34:C:C2'	23:AW:35:A:C5'	2.40	0.99
23:AW:34:C:H3'	23:AW:35:A:H5''	1.01	0.99
36:BA:211:A:H2'	36:BA:212:G:H5''	1.39	0.99
34:B8:33:ASN:H	34:B8:33:ASN:ND2	1.49	0.99
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.25	0.99
39:BD:166:GLN:HA	39:BD:166:GLN:HE21	1.22	0.99
36:BA:1061:U:H4'	36:BA:1070:A:H1'	1.42	0.99
7:AG:27:ILE:HD11	7:AG:40:ALA:HA	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2287:A:H62	36:BA:2344:U:H3	1.10	0.99
25:AY:84:THR:H	25:AY:85:PRO:CD	1.75	0.99
42:BG:68:PRO:HA	42:BG:92:VAL:HG12	1.44	0.99
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.40	0.99
36:DA:2579:C:H4'	40:DE:134:ILE:HG12	1.44	0.99
29:D3:29:ARG:HB2	29:D3:29:ARG:HH11	1.25	0.99
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.23	0.99
23:CW:34:C:H3'	23:CW:35:A:H5''	1.01	0.99
25:CY:348:ARG:HG2	25:CY:382:GLU:HG3	1.43	0.99
36:BA:925:C:H2'	36:BA:926:A:H5''	1.43	0.99
36:BA:612:C:C2'	36:BA:613:G:H5''	1.92	0.99
56:DY:46:LYS:H	56:DY:62:GLU:HB2	1.26	0.99
36:DA:2262:U:H2'	36:DA:2263:C:H5'	1.43	0.99
31:D5:2:ALA:HA	36:DA:2015:A:H1'	1.45	0.99
28:B2:41:ILE:HD11	28:B2:44:LEU:HD12	1.44	0.99
45:DN:57:ALA:H	45:DN:124:ALA:HA	1.24	0.99
25:AY:439:ARG:H	25:AY:452:SER:HB3	1.28	0.99
52:DU:44:ASN:HD21	53:DV:75:PHE:HB3	1.28	0.99
36:DA:2287:A:H62	36:DA:2344:U:H3	1.09	0.98
36:DA:925:C:H2'	36:DA:926:A:H5''	1.41	0.98
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.28	0.98
1:CA:975:A:H4'	1:CA:976:G:H5''	1.45	0.98
39:BD:32:SER:O	39:BD:36:PRO:HG3	1.62	0.98
32:B6:28:ARG:NH1	32:B6:28:ARG:HB3	1.78	0.98
51:DT:125:ARG:HH11	51:DT:125:ARG:HA	1.28	0.98
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.25	0.98
36:DA:1301:A:O2'	36:DA:1302:A:H2'	1.62	0.98
13:CM:69:GLU:HG2	30:D4:43:TYR:OH	1.63	0.98
18:CR:29:PHE:H	18:CR:29:PHE:HD1	1.09	0.98
36:DA:2308:G:N7	36:DA:2310:A:H5'	1.79	0.98
36:BA:2579:C:H4'	40:BE:134:ILE:HG12	1.46	0.98
36:BA:2393:A:H5''	47:BP:62:LEU:HB3	1.43	0.98
47:DP:126:VAL:HA	47:DP:145:PRO:HB2	1.46	0.98
36:BA:1494:A:O2'	36:BA:1495:A:H5''	1.64	0.98
1:AA:979:C:C3'	1:AA:980:C:H5''	1.93	0.97
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.28	0.97
40:DE:111:ARG:HA	49:DR:2:ARG:HB3	1.43	0.97
56:DY:51:VAL:HG12	56:DY:53:PRO:HD2	1.46	0.97
25:CY:606:MET:HE2	25:CY:671:MET:HG2	1.42	0.97
42:BG:135:LEU:HD11	42:BG:155:MET:HG2	1.46	0.97
25:AY:250:THR:HA	25:AY:255:ILE:HG23	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2796:U:H3'	36:BA:2799:C:H5'	1.46	0.97
50:BS:13:ARG:HG3	50:BS:14:VAL:H	1.24	0.97
25:CY:487:ILE:HG22	25:CY:594:VAL:HG13	1.45	0.97
36:DA:2723:C:H5''	49:DR:2:ARG:HH11	1.23	0.97
29:B3:17:LYS:HG2	36:BA:969:U:OP1	1.63	0.97
36:DA:211:A:C2'	36:DA:212:G:H5''	1.95	0.97
25:AY:624:LEU:HD23	25:AY:631:ILE:HD11	1.45	0.97
1:CA:979:C:C3'	1:CA:980:C:H5''	1.95	0.97
36:BA:2308:G:N7	36:BA:2310:A:H5'	1.79	0.97
25:AY:606:MET:HG3	25:AY:649:LEU:HD21	1.47	0.97
52:DU:34:LYS:HE2	52:DU:34:LYS:HA	1.45	0.97
52:BU:44:ASN:HD21	53:BV:75:PHE:HB3	1.30	0.97
7:CG:27:ILE:HD11	7:CG:40:ALA:HA	1.45	0.97
47:BP:126:VAL:HA	47:BP:145:PRO:HB2	1.47	0.96
36:BA:1452:A:H3'	36:BA:1453:U:H5''	1.43	0.96
51:BT:65:LYS:HE3	51:BT:66:VAL:H	1.30	0.96
51:DT:28:VAL:HG22	51:DT:46:GLU:HA	1.46	0.96
39:DD:131:LEU:HB2	39:DD:136:ILE:HD11	1.43	0.96
36:BA:2584:U:C2'	36:BA:2585:U:H5'	1.96	0.96
36:DA:1494:A:O2'	36:DA:1495:A:H5''	1.63	0.96
42:BG:61:ALA:HA	42:BG:64:THR:HG22	1.46	0.96
36:BA:27:G:HO2'	36:BA:28:A:H8	1.03	0.96
25:AY:423:LYS:HB3	25:AY:472:VAL:HG22	1.47	0.96
27:B1:76:ARG:HH22	27:B1:95:LEU:HD22	1.31	0.96
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.45	0.96
11:AK:54:ARG:O	11:AK:57:THR:HG22	1.66	0.96
36:BA:1845:G:C2'	36:BA:1846:G:H5''	1.95	0.96
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.44	0.96
32:B6:41:PRO:HD2	32:B6:45:LYS:O	1.64	0.96
25:AY:252:ASP:HB2	25:AY:254:LYS:HG2	1.46	0.96
36:BA:2392:A:H8	47:BP:60:MET:HB3	1.30	0.96
51:BT:28:VAL:HG22	51:BT:46:GLU:HA	1.48	0.96
36:DA:2103:C:H2'	36:DA:2104:G:H5''	1.46	0.96
25:AY:84:THR:HG23	59:AY:701:FUA:O3	1.65	0.96
51:BT:23:ARG:HG2	51:BT:120:ARG:HH12	1.29	0.96
47:DP:7:ARG:HB3	47:DP:8:PRO:HD3	1.48	0.96
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.31	0.96
51:DT:23:ARG:HG2	51:DT:120:ARG:HH12	1.30	0.96
31:B5:2:ALA:HA	36:BA:2015:A:H1'	1.44	0.96
32:D6:8:LYS:HZ1	36:DA:2285:C:H5	1.04	0.95
56:DY:7:VAL:HB	56:DY:8:LYS:HD2	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:23:LYS:HD3	57:BZ:38:TYR:HE2	1.30	0.95
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.47	0.95
56:BY:51:VAL:HG12	56:BY:53:PRO:HD2	1.47	0.95
1:CA:80:G:H3'	1:CA:81:U:H5'	1.45	0.95
25:AY:385:THR:HG21	25:AY:436:PRO:HG3	1.48	0.95
25:CY:409:ILE:HG22	25:CY:459:LEU:HD21	1.47	0.95
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.48	0.95
36:BA:2473:U:H3'	36:BA:2474:C:C5'	1.96	0.95
36:BA:1375:C:H2'	36:BA:1376:C:H6	1.31	0.95
41:BF:28:ILE:HD13	41:BF:28:ILE:H	1.31	0.95
39:DD:32:SER:O	39:DD:36:PRO:HG3	1.65	0.95
25:CY:227:ILE:HG23	25:CY:237:PRO:HG2	1.49	0.95
36:BA:2286:A:H4'	36:BA:2287:A:H5'	1.49	0.95
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	1.82	0.95
1:AA:80:G:H3'	1:AA:81:U:H5'	1.45	0.95
36:BA:211:A:C2'	36:BA:212:G:H5''	1.96	0.95
36:DA:2473:U:H3'	36:DA:2474:C:C5'	1.96	0.95
36:DA:1845:G:C2'	36:DA:1846:G:H5''	1.95	0.95
51:BT:65:LYS:HA	51:BT:65:LYS:NZ	1.80	0.95
36:BA:2103:C:H2'	36:BA:2104:G:H5''	1.47	0.95
36:DA:2761:G:H2'	36:DA:2762:G:H5''	1.46	0.95
25:AY:530:VAL:HG13	25:AY:531:GLY:H	1.32	0.95
25:AY:12:LEU:O	25:AY:283:PRO:HD3	1.65	0.95
36:DA:2523:G:C2'	36:DA:2524:G:H5''	1.96	0.95
53:DV:51:VAL:HG12	53:DV:52:VAL:H	1.32	0.95
11:CK:54:ARG:O	11:CK:57:THR:HG22	1.65	0.95
49:DR:38:VAL:HB	49:DR:39:PRO:HD3	1.47	0.95
36:BA:674:G:H1'	41:BF:74:ARG:HD3	1.49	0.95
22:CV:51:U:H3	22:CV:63:G:H1	1.05	0.95
24:CX:11:A:H4'	24:CX:12:A:O5'	1.65	0.95
36:BA:1846:G:H5'	36:BA:1846:G:H8	1.31	0.95
32:B6:8:LYS:HZ1	36:BA:2285:C:H5	1.05	0.95
36:BA:2317:C:H2'	36:BA:2318:G:H5'	1.48	0.95
42:DG:139:LEU:HA	42:DG:144:ILE:HD13	1.49	0.94
36:BA:2020:A:O2'	36:BA:2021:C:H5''	1.66	0.94
36:BA:1899:G:N2	36:BA:1902:C:H41	1.65	0.94
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.46	0.94
53:BV:62:LEU:HD21	53:BV:95:LEU:HB2	1.50	0.94
36:DA:2796:U:H3'	36:DA:2799:C:H5'	1.46	0.94
36:DA:2392:A:H8	47:DP:60:MET:HB3	1.31	0.94
43:DH:153:LYS:HD2	43:DH:154:PRO:HD2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:154(A):C:H5''	36:DA:155:U:H5''	1.48	0.94
25:AY:573:HIS:HD2	25:AY:576:ASP:H	1.13	0.94
25:CY:548:GLU:HA	25:CY:551:GLN:HE21	1.29	0.94
53:DV:62:LEU:HD21	53:DV:95:LEU:HB2	1.48	0.94
26:B0:27:GLU:H	26:B0:27:GLU:CD	1.68	0.94
36:BA:2189:U:H2'	36:BA:2190:G:H5''	1.46	0.94
23:AW:3:C:C2'	23:AW:4:G:H5''	1.97	0.94
51:DT:65:LYS:HA	51:DT:65:LYS:NZ	1.80	0.94
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.48	0.94
36:BA:2761:G:H2'	36:BA:2762:G:H5''	1.46	0.94
36:BA:1814:G:H3'	36:BA:1815:A:H5''	1.48	0.94
55:BX:24:GLY:O	55:BX:82:GLN:HA	1.67	0.94
50:DS:28:VAL:HG12	50:DS:29:PHE:H	1.32	0.94
25:AY:512:ILE:HD12	25:AY:589:ALA:HB1	1.48	0.94
36:DA:2393:A:H5''	47:DP:62:LEU:HB3	1.45	0.94
36:BA:2245:U:H5'	36:BA:2246:G:H5'	1.48	0.94
45:BN:46:VAL:HG13	45:BN:47:ALA:H	1.33	0.94
27:B1:80:LEU:HD23	27:B1:81:LYS:H	1.30	0.94
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.30	0.94
28:D2:38:GLN:HA	28:D2:41:ILE:HG23	1.48	0.94
36:DA:27:G:HO2'	36:DA:28:A:H8	1.00	0.94
36:BA:2068:U:H3	36:BA:2430:A:H2	1.03	0.94
1:AA:975:A:H4'	1:AA:976:G:H5''	1.47	0.94
41:DF:3:GLU:CA	41:DF:24:LEU:HG	1.97	0.94
50:DS:24:LEU:HB3	50:DS:85:VAL:HG12	1.50	0.94
36:DA:2245:U:H5'	36:DA:2246:G:H5'	1.48	0.94
36:DA:2189:U:H2'	36:DA:2190:G:H5''	1.46	0.94
47:BP:55:ARG:HG2	47:BP:56:SER:H	1.33	0.94
25:AY:526:VAL:HB	25:AY:566:THR:HA	1.50	0.94
41:BF:3:GLU:CA	41:BF:24:LEU:HG	1.97	0.94
50:BS:28:VAL:HG12	50:BS:29:PHE:H	1.30	0.94
52:BU:34:LYS:HA	52:BU:34:LYS:HE2	1.46	0.94
36:BA:2523:G:C2'	36:BA:2524:G:H5''	1.98	0.94
42:DG:76:SER:CB	42:DG:83:ARG:HB3	1.97	0.94
36:DA:1452:A:H3'	36:DA:1453:U:C5'	1.97	0.94
36:DA:272(J):C:H3'	36:DA:274:G:H5''	1.50	0.94
36:DA:2317:C:H2'	36:DA:2318:G:H5'	1.49	0.94
25:CY:573:HIS:HD2	25:CY:576:ASP:H	1.08	0.93
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	1.83	0.93
42:BG:152:LEU:HD23	42:BG:152:LEU:H	1.33	0.93
45:BN:45:ASN:HD22	45:BN:45:ASN:H	1.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:48:MET:N	45:BN:48:MET:HE2	1.81	0.93
49:BR:99:LYS:HD3	49:BR:99:LYS:N	1.83	0.93
47:DP:146:VAL:HG22	47:DP:147:LEU:H	1.31	0.93
1:CA:1004:A:H5'	1:CA:1025:U:H3	1.32	0.93
39:DD:83:GLU:HB2	39:DD:92:ILE:HD11	1.50	0.93
25:CY:530:VAL:HG22	25:CY:531:GLY:H	1.32	0.93
50:BS:95:HIS:CG	50:BS:96:GLY:H	1.86	0.93
46:BO:111:PHE:HB3	46:BO:114:ILE:HD13	1.48	0.93
53:BV:51:VAL:HG12	53:BV:52:VAL:H	1.32	0.93
51:DT:65:LYS:HE3	51:DT:66:VAL:H	1.32	0.93
47:BP:7:ARG:HB3	47:BP:8:PRO:HD3	1.47	0.93
36:BA:154(A):C:H5''	36:BA:155:U:H5''	1.49	0.93
53:BV:18:LEU:HD22	53:BV:19:LYS:H	1.33	0.93
36:DA:1846:G:H8	36:DA:1846:G:H5'	1.33	0.93
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.68	0.93
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.51	0.93
14:CN:12:ARG:HH12	14:CN:14:PRO:HG3	1.34	0.93
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.34	0.93
36:BA:965:C:C5'	36:BA:2273:A:H1'	1.99	0.93
9:CI:119:ALA:O	9:CI:120:ARG:HG2	1.69	0.93
41:DF:28:ILE:HD13	41:DF:28:ILE:H	1.32	0.93
36:DA:2020:A:O2'	36:DA:2021:C:H5''	1.68	0.93
36:BA:2476:A:H2'	36:BA:2477:C:H5''	1.51	0.93
22:AV:4:C:HO2'	22:AV:5:G:H8	1.04	0.93
36:BA:1452:A:H3'	36:BA:1453:U:C5'	1.98	0.93
27:D1:76:ARG:HH22	27:D1:95:LEU:HD13	1.34	0.93
36:DA:813:U:H2'	36:DA:814:C:C6	2.03	0.93
46:DO:17:ARG:HE	46:DO:47:ILE:HD11	1.31	0.93
36:DA:965:C:C5'	36:DA:2273:A:H1'	1.99	0.93
45:DN:46:VAL:HG13	45:DN:47:ALA:H	1.32	0.93
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	1.81	0.93
36:DA:2286:A:H4'	36:DA:2287:A:H5'	1.50	0.93
25:CY:632:LEU:HG	25:CY:645:ALA:HA	1.46	0.93
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	1.84	0.93
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.30	0.93
53:BV:28:GLU:HB2	53:BV:31:ALA:HB2	1.48	0.92
36:DA:1814:G:H3'	36:DA:1815:A:H5''	1.49	0.92
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.50	0.92
45:DN:54:VAL:HB	45:DN:122:VAL:HG22	1.48	0.92
36:BA:142:A:H1'	36:BA:1408:C:H1'	1.49	0.92
1:AA:1004:A:H5'	1:AA:1025:U:H3	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D0:27:GLU:CD	26:D0:27:GLU:H	1.69	0.92
36:BA:108:U:H2'	36:BA:109:G:C8	2.04	0.92
32:D6:8:LYS:HE3	32:D6:25:LYS:HD3	1.51	0.92
53:DV:28:GLU:HB2	53:DV:31:ALA:HB2	1.49	0.92
36:DA:1375:C:H2'	36:DA:1376:C:H6	1.33	0.92
43:BH:153:LYS:HD2	43:BH:154:PRO:HD2	1.50	0.92
50:DS:95:HIS:CG	50:DS:96:GLY:H	1.88	0.92
36:BA:272(J):C:H3'	36:BA:274:G:H5''	1.52	0.92
36:DA:1697:G:H3'	36:DA:1698:A:H5''	1.49	0.92
45:BN:54:VAL:HB	45:BN:122:VAL:HG22	1.50	0.92
46:BO:17:ARG:HE	46:BO:47:ILE:HD11	1.33	0.92
49:DR:99:LYS:HD3	49:DR:99:LYS:N	1.84	0.92
36:DA:2584:U:C2'	36:DA:2585:U:H5'	1.98	0.92
32:B6:8:LYS:HE3	32:B6:25:LYS:HD3	1.51	0.92
25:AY:238:THR:HG22	25:AY:241:GLU:HG2	1.50	0.92
49:BR:45:ARG:HG3	49:BR:46:GLY:H	1.34	0.92
25:AY:196:ILE:HG13	25:AY:197:ARG:H	1.33	0.92
37:BB:48:A:H4'	50:BS:95:HIS:HD2	1.35	0.92
53:DV:18:LEU:HD22	53:DV:19:LYS:H	1.32	0.92
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.34	0.92
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.52	0.92
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.70	0.92
25:AY:487:ILE:HG23	25:AY:594:VAL:HG13	1.49	0.92
20:CT:48:LYS:HB3	20:CT:51:GLU:HG2	1.52	0.92
18:AR:29:PHE:HD1	18:AR:29:PHE:H	1.10	0.92
1:AA:148:G:H2'	1:AA:149:A:H8	1.34	0.92
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.52	0.92
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.35	0.92
57:DZ:163:LEU:HD23	57:DZ:163:LEU:H	1.33	0.92
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.50	0.92
36:BA:1243:G:H1'	47:BP:8:PRO:HB3	1.52	0.92
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.52	0.92
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.50	0.92
49:DR:45:ARG:HG3	49:DR:46:GLY:H	1.34	0.92
55:DX:24:GLY:O	55:DX:82:GLN:HA	1.69	0.92
1:CA:148:G:H2'	1:CA:149:A:H8	1.33	0.92
25:CY:427:ALA:HB1	25:CY:466:LEU:HG	1.50	0.91
1:CA:1399:C:H4'	1:CA:1400:C:H5'	1.50	0.91
36:DA:1899:G:H22	36:DA:1902:C:N4	1.66	0.91
47:BP:146:VAL:HG22	47:BP:147:LEU:H	1.31	0.91
36:DA:2317:C:C2'	36:DA:2318:G:H5'	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:674:G:H1'	41:DF:74:ARG:HD3	1.51	0.91
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.52	0.91
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.52	0.91
41:DF:155:LEU:HA	41:DF:174:VAL:HB	1.52	0.91
25:CY:92:ILE:HG12	25:CY:405:PRO:HG2	1.52	0.91
45:DN:48:MET:HE2	45:DN:48:MET:N	1.83	0.91
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.51	0.91
36:DA:2811:G:OP1	40:DE:60:ASN:HB2	1.68	0.91
47:DP:59:LEU:HA	47:DP:61:ARG:NE	1.85	0.91
36:DA:2572:A:H5'	36:DA:2574:G:H4'	1.52	0.91
36:DA:2476:A:H2'	36:DA:2477:C:H5''	1.52	0.91
41:BF:155:LEU:HA	41:BF:174:VAL:HB	1.52	0.91
4:CD:49:ARG:HE	4:CD:49:ARG:HA	1.33	0.91
36:DA:1043:C:C2'	36:DA:1044:G:H5''	2.01	0.91
36:BA:1697:G:H3'	36:BA:1698:A:H5''	1.49	0.91
36:DA:1503:U:H2'	36:DA:1504:C:H6	1.32	0.91
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.50	0.91
49:BR:10:LEU:HB3	49:BR:17:ARG:HD3	1.52	0.91
50:BS:24:LEU:HB3	50:BS:85:VAL:HG12	1.49	0.91
25:AY:9:LEU:CD2	25:AY:284:LEU:HB2	2.01	0.91
36:BA:1043:C:C2'	36:BA:1044:G:H5''	2.00	0.91
36:BA:2811:G:OP1	40:BE:60:ASN:HB2	1.70	0.91
36:DA:2645:G:H3'	36:DA:2646:C:C5'	2.00	0.91
37:BB:7:G:C2'	37:BB:8:U:H5''	1.99	0.91
28:D2:24:LEU:HD22	28:D2:60:LEU:HD11	1.51	0.91
46:DO:114:ILE:HD12	46:DO:114:ILE:H	1.34	0.91
46:DO:111:PHE:HB3	46:DO:114:ILE:HD13	1.50	0.91
41:BF:84:VAL:HG12	41:BF:85:GLY:N	1.86	0.91
46:BO:104:ARG:HE	51:BT:33:LYS:HE3	1.34	0.91
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.52	0.91
31:B5:34:PRO:O	31:B5:35:GLU:HB2	1.70	0.91
23:AW:71:C:H2'	23:AW:72:A:H8	1.34	0.91
57:DZ:20:ARG:NH1	57:DZ:20:ARG:HB2	1.86	0.91
56:DY:74:PRO:HG3	56:DY:83:THR:HG22	1.51	0.91
36:BA:1899:G:H22	36:BA:1902:C:N4	1.68	0.91
51:BT:55:ASN:N	51:BT:59:THR:HG22	1.85	0.91
47:DP:16:ARG:HD3	47:DP:18:ARG:H	1.35	0.91
1:AA:1502:A:H2	1:AA:1505:G:H1	1.12	0.91
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.52	0.91
36:BA:2807:G:H3'	36:BA:2808:U:H5''	1.53	0.91
51:BT:55:ASN:H	51:BT:59:THR:HG22	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:108:U:H2'	36:DA:109:G:C8	2.04	0.91
57:DZ:81:ARG:NH1	57:DZ:81:ARG:HB3	1.86	0.91
56:DY:17:SER:HB2	56:DY:71:LYS:HD2	1.52	0.91
36:DA:2807:G:H3'	36:DA:2808:U:H5''	1.52	0.91
36:DA:2672:G:H2'	36:DA:2673:G:H5''	1.53	0.91
22:CV:36:A:N1	24:CX:16:U:C4	2.38	0.91
36:BA:108:U:H2'	36:BA:109:G:H8	1.36	0.91
38:BC:28:ARG:HH11	38:BC:28:ARG:HG3	1.33	0.91
42:DG:76:SER:HB2	42:DG:83:ARG:CB	2.00	0.90
25:CY:5:VAL:HG13	25:CY:6:GLU:H	1.32	0.90
51:BT:53:ARG:HB3	51:BT:53:ARG:HH11	1.35	0.90
39:DD:35:LYS:HD2	39:DD:36:PRO:N	1.86	0.90
45:BN:133:GLN:HG2	45:BN:135:PRO:HD3	1.52	0.90
36:BA:1038:C:H3'	36:BA:1039:G:H5''	1.52	0.90
37:DB:7:G:C2'	37:DB:8:U:H5''	2.00	0.90
25:AY:546:ILE:HD13	25:AY:565:VAL:HG11	1.52	0.90
40:DE:107:THR:O	40:DE:190:GLY:HA2	1.72	0.90
36:BA:813:U:H2'	36:BA:814:C:C6	2.06	0.90
36:BA:2473:U:C3'	36:BA:2474:C:H5''	2.02	0.90
45:DN:45:ASN:HD22	45:DN:45:ASN:H	1.03	0.90
37:DB:7:G:H5'	50:DS:29:PHE:CE2	2.07	0.90
39:BD:35:LYS:HD2	39:BD:36:PRO:N	1.85	0.90
36:BA:2317:C:C2'	36:BA:2318:G:H5'	2.01	0.90
31:D5:34:PRO:O	31:D5:35:GLU:HB2	1.69	0.90
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.54	0.90
14:AN:12:ARG:HH12	14:AN:14:PRO:HG3	1.36	0.90
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.71	0.90
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG23	1.52	0.90
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.69	0.90
8:CH:83:ILE:HD12	8:CH:137:VAL:HG22	1.54	0.90
39:BD:83:GLU:HB2	39:BD:92:ILE:HD11	1.54	0.90
36:BA:1503:U:H2'	36:BA:1504:C:H6	1.31	0.90
25:CY:84:THR:H	25:CY:85:PRO:HD3	1.35	0.90
32:D6:11:LEU:HG	32:D6:26:ASN:ND2	1.86	0.90
36:DA:1517:G:H8	36:DA:1517:G:H5'	1.36	0.90
1:AA:509:A:H5'	1:AA:510:A:OP2	1.72	0.90
36:DA:142:A:H1'	36:DA:1408:C:H1'	1.52	0.90
23:AW:14:A:H3'	23:AW:15:G:H5''	1.52	0.90
37:DB:103:G:H21	57:DZ:73:GLN:HE22	1.00	0.90
41:DF:40:GLN:NE2	41:DF:182:ASN:HB2	1.87	0.90
42:DG:68:PRO:HA	42:DG:92:VAL:CG1	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:12:ARG:O	14:AN:14:PRO:HD3	1.72	0.90
27:D1:73:LEU:HD21	27:D1:94:LEU:HB3	1.52	0.90
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.54	0.90
52:DU:90:VAL:HG21	53:DV:47:VAL:HG21	1.53	0.90
47:BP:59:LEU:HA	47:BP:61:ARG:NE	1.86	0.90
23:AW:2:G:H1	23:AW:71:C:H42	1.20	0.90
40:DE:47:VAL:HG12	40:DE:48:GLN:H	1.37	0.90
47:BP:16:ARG:HD3	47:BP:18:ARG:H	1.36	0.90
56:BY:17:SER:HB2	56:BY:71:LYS:HD2	1.52	0.89
25:CY:92:ILE:HG21	25:CY:454:MET:HE1	1.54	0.89
36:BA:2298:A:H62	36:BA:2318:G:H8	1.19	0.89
36:BA:745:G:H5'	36:BA:746:A:OP2	1.72	0.89
23:AW:7:G:H3'	23:AW:8:U:H5'	1.54	0.89
47:BP:39:LYS:HE2	47:BP:40:SER:H	1.37	0.89
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.54	0.89
36:DA:2473:U:C3'	36:DA:2474:C:H5''	2.01	0.89
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.37	0.89
40:BE:47:VAL:HG12	40:BE:48:GLN:H	1.36	0.89
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.70	0.89
1:CA:1490:C:H6	1:CA:1490:C:H5'	1.37	0.89
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.51	0.89
52:BU:90:VAL:HG21	53:BV:47:VAL:HG21	1.52	0.89
36:DA:996:A:H4'	52:DU:92:ARG:NE	1.87	0.89
45:DN:133:GLN:HG2	45:DN:135:PRO:HD3	1.52	0.89
25:CY:185:ALA:HB3	25:CY:199:ILE:O	1.72	0.89
49:DR:10:LEU:HB3	49:DR:17:ARG:HD3	1.54	0.89
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	1.87	0.89
8:AH:83:ILE:HD12	8:AH:137:VAL:HG22	1.54	0.89
36:BA:970:C:H2'	36:BA:971:C:H6	1.34	0.89
36:BA:1782:C:H1'	36:BA:2609:U:H5'	1.52	0.89
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.52	0.89
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.72	0.89
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.54	0.89
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.52	0.89
36:DA:365:C:H5'	36:DA:365:C:H6	1.37	0.89
51:DT:55:ASN:N	51:DT:59:THR:HG22	1.86	0.89
30:D4:2:LYS:HB2	37:DB:40:U:O4	1.72	0.89
24:AX:11:A:H4'	24:AX:12:A:O5'	1.65	0.89
25:AY:170:ARG:O	25:AY:171:GLU:HG2	1.71	0.89
47:BP:62:LEU:HD23	47:BP:62:LEU:H	1.38	0.89
46:DO:104:ARG:HE	51:DT:33:LYS:HE3	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1782:C:H1'	36:DA:2609:U:H5'	1.54	0.89
38:BC:71:LYS:HG2	38:BC:72:GLN:H	1.37	0.89
27:B1:46:LEU:HB3	27:B1:63:ALA:HA	1.53	0.89
4:AD:49:ARG:HA	4:AD:49:ARG:HE	1.35	0.89
51:BT:132:LYS:HD3	51:BT:132:LYS:H	1.37	0.89
36:DA:1038:C:H3'	36:DA:1039:G:H5''	1.52	0.89
36:DA:1899:G:H22	36:DA:1902:C:H41	1.15	0.89
36:DA:1243:G:H1'	47:DP:8:PRO:HB3	1.53	0.89
36:DA:2761:G:C2'	36:DA:2762:G:H5''	2.03	0.89
25:AY:92:ILE:HG12	25:AY:405:PRO:HG2	1.54	0.89
1:AA:686:U:HO2'	1:AA:687:A:H8	0.94	0.89
41:DF:84:VAL:HG12	41:DF:85:GLY:N	1.86	0.89
25:AY:281:PRO:HB2	25:AY:286:ILE:CD1	2.02	0.89
31:B5:4:HIS:HB3	31:B5:5:PRO:HD3	1.55	0.89
1:CA:1004:A:H61	1:CA:1034:G:H2'	1.36	0.89
36:BA:1434:A:H61	36:BA:1558:A:N6	1.71	0.89
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.38	0.89
36:BA:1517:G:H8	36:BA:1517:G:H5'	1.36	0.89
1:AA:1489:G:C2'	1:AA:1490:C:H5''	2.02	0.88
10:CJ:4:ILE:HD11	10:CJ:77:PRO:HB3	1.54	0.88
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.73	0.88
20:AT:13:LEU:HD12	20:AT:13:LEU:H	1.38	0.88
42:DG:5:VAL:HB	42:DG:8:LYS:HB2	1.53	0.88
36:BA:2645:G:H3'	36:BA:2646:C:C5'	2.01	0.88
36:DA:108:U:H2'	36:DA:109:G:H8	1.37	0.88
38:DC:71:LYS:HG2	38:DC:72:GLN:H	1.39	0.88
38:BC:90:ALA:HA	38:BC:155:ARG:NH1	1.87	0.88
1:CA:129(A):G:O2'	1:CA:189(F):U:H2'	1.73	0.88
42:DG:34:LEU:HD13	42:DG:99:MET:HE3	1.55	0.88
36:BA:2761:G:C2'	36:BA:2762:G:H5''	2.03	0.88
4:CD:36:ARG:HH11	4:CD:36:ARG:CB	1.86	0.88
36:BA:1348:G:H2'	36:BA:1349:A:H5''	1.53	0.88
36:BA:1142(A):A:C2'	36:BA:1143:A:H5''	2.03	0.88
36:DA:970:C:H2'	36:DA:971:C:H6	1.38	0.88
36:BA:2572:A:H5'	36:BA:2574:G:H4'	1.56	0.88
47:DP:39:LYS:HE2	47:DP:40:SER:H	1.38	0.88
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.56	0.88
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.55	0.88
3:CC:34:LEU:HD22	3:CC:38:ARG:HD2	1.55	0.88
57:DZ:166:SER:HB2	57:DZ:168:GLU:N	1.88	0.88
47:DP:55:ARG:HG2	47:DP:56:SER:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:1:MET:HB3	40:BE:200:GLU:OE2	1.74	0.88
41:BF:40:GLN:NE2	41:BF:182:ASN:HB2	1.89	0.88
55:BX:12:VAL:HG23	55:BX:13:LEU:N	1.89	0.88
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.39	0.88
20:AT:48:LYS:HB3	20:AT:51:GLU:HG2	1.56	0.88
36:DA:2298:A:H62	36:DA:2318:G:H8	1.21	0.88
36:DA:2200:C:H42	36:DA:2223:G:H1	1.20	0.88
36:DA:1540:U:H3'	36:DA:1541:G:H3'	1.55	0.88
38:DC:90:ALA:HA	38:DC:155:ARG:NH1	1.89	0.88
36:DA:482:A:H4'	56:DY:47:LYS:HG2	1.55	0.88
24:CX:11:A:H1'	24:CX:12:A:C8	2.09	0.88
1:AA:979:C:H3'	1:AA:980:C:C5'	2.03	0.88
1:AA:129(A):G:O2'	1:AA:189(F):U:H2'	1.71	0.88
10:AJ:78:ASN:HD22	10:AJ:81:THR:HG21	1.38	0.88
32:B6:11:LEU:HG	32:B6:26:ASN:ND2	1.89	0.88
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.56	0.88
36:DA:1020:A:N1	36:DA:1141:U:H2'	1.89	0.88
25:AY:255:ILE:HG12	25:AY:257:PRO:HD3	1.55	0.88
47:DP:62:LEU:H	47:DP:62:LEU:HD23	1.38	0.88
36:BA:482:A:H4'	56:BY:47:LYS:HG2	1.56	0.88
36:BA:1236:G:HO2'	36:BA:1237:A:H8	0.95	0.88
55:DX:12:VAL:HG23	55:DX:13:LEU:N	1.87	0.88
14:CN:12:ARG:O	14:CN:14:PRO:HD3	1.73	0.88
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.56	0.88
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.53	0.88
1:CA:979:C:H3'	1:CA:980:C:C5'	2.04	0.88
25:AY:546:ILE:HG23	25:AY:590:ILE:HG13	1.55	0.88
1:AA:1004:A:H61	1:AA:1034:G:H2'	1.37	0.88
36:DA:1236:G:HO2'	36:DA:1237:A:H8	0.91	0.88
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.74	0.87
36:DA:84:A:H5'	56:DY:9:LYS:HB3	1.56	0.87
46:BO:114:ILE:HD12	46:BO:114:ILE:H	1.38	0.87
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.72	0.87
45:BN:55:VAL:HG22	45:BN:126:PRO:HA	1.56	0.87
42:BG:76:SER:HA	42:BG:83:ARG:HB3	1.54	0.87
36:BA:2138:C:H2'	36:BA:2139:C:C6	2.08	0.87
36:DA:745:G:H5'	36:DA:746:A:OP2	1.74	0.87
42:DG:39:ILE:HA	42:DG:156:ASP:O	1.74	0.87
36:BA:996:A:H4'	52:BU:92:ARG:NE	1.89	0.87
36:BA:2523:G:H2'	36:BA:2524:G:H5''	1.55	0.87
55:BX:11:PRO:HA	55:BX:28:PHE:HB3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2138:C:H2'	36:BA:2139:C:H6	1.38	0.87
10:CJ:54:PHE:CE2	10:CJ:55:LYS:HD2	2.08	0.87
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.09	0.87
39:BD:44:ASN:HB3	39:BD:49:ILE:HA	1.53	0.87
51:DT:53:ARG:HH11	51:DT:53:ARG:HB3	1.37	0.87
10:CJ:78:ASN:HD22	10:CJ:81:THR:HG21	1.39	0.87
25:AY:453:GLY:HA2	25:AY:458:HIS:HD2	1.36	0.87
36:DA:2523:G:H2'	36:DA:2524:G:H5''	1.54	0.87
2:CB:204:ASN:HD22	2:CB:205:ASP:N	1.73	0.87
52:BU:20:LEU:H	52:BU:20:LEU:HD22	1.39	0.87
42:BG:139:LEU:HA	42:BG:144:ILE:HG21	1.56	0.87
32:B6:6:ARG:HD2	32:B6:6:ARG:N	1.90	0.87
56:BY:74:PRO:HG3	56:BY:83:THR:HG22	1.53	0.87
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.56	0.87
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.54	0.87
41:DF:20:LEU:HD23	41:DF:21:ALA:H	1.39	0.87
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	1.55	0.87
32:D6:6:ARG:HD2	32:D6:6:ARG:N	1.90	0.87
28:B2:3:LEU:HD22	28:B2:7:ARG:HH12	1.36	0.87
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	1.74	0.87
54:DW:22:ASP:HA	54:DW:25:ARG:HH12	1.39	0.87
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.56	0.87
1:CA:1227:A:H2'	13:CM:117:VAL:HG21	1.56	0.87
47:BP:30:THR:HG22	47:BP:31:ALA:N	1.90	0.87
36:DA:1070:A:H5'	36:DA:1072:C:OP2	1.75	0.87
27:B1:81:LYS:HE2	36:BA:271(H):G:H4'	1.56	0.87
57:BZ:86:VAL:HG12	57:BZ:87:ASP:H	1.37	0.87
1:CA:1399:C:H4'	1:CA:1400:C:H5''	1.56	0.87
36:DA:2189:U:C2'	36:DA:2190:G:H5''	2.05	0.87
27:B1:29:GLY:O	27:B1:30:VAL:HG22	1.75	0.87
31:B5:40:LYS:NZ	31:B5:46:CYS:H	1.72	0.87
36:DA:1452:A:C3'	36:DA:1453:U:H5''	2.05	0.87
25:AY:519:ARG:HH22	25:AY:678:GLU:HB3	1.38	0.87
37:DB:82:G:O2'	37:DB:83:G:H5'	1.75	0.87
1:AA:1227:A:H2'	13:AM:117:VAL:HG21	1.57	0.87
52:DU:20:LEU:H	52:DU:20:LEU:HD22	1.37	0.87
42:DG:87:PRO:O	42:DG:88:ILE:HD12	1.75	0.86
25:CY:529:ILE:HD11	25:CY:567:LEU:HD11	1.54	0.86
45:BN:48:MET:H	45:BN:48:MET:CE	1.85	0.86
51:BT:91:ARG:O	51:BT:117:ASP:HB2	1.75	0.86
51:DT:91:ARG:O	51:DT:117:ASP:HB2	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:17:VAL:HG11	43:BH:50:VAL:HG21	1.57	0.86
45:DN:55:VAL:HG22	45:DN:126:PRO:HA	1.57	0.86
22:CV:36:A:C6	24:CX:16:U:O4	2.28	0.86
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.73	0.86
38:BC:28:ARG:HG2	38:BC:183:PRO:HB3	1.57	0.86
36:BA:1540:U:H3'	36:BA:1541:G:H3'	1.55	0.86
40:BE:107:THR:O	40:BE:190:GLY:HA2	1.75	0.86
4:AD:36:ARG:CB	4:AD:36:ARG:HH11	1.87	0.86
36:DA:1348:G:H2'	36:DA:1349:A:H5''	1.54	0.86
51:DT:65:LYS:HA	51:DT:65:LYS:HZ2	1.38	0.86
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.56	0.86
4:CD:108:LEU:HD21	4:CD:183:GLY:HA3	1.57	0.86
25:CY:330:VAL:HG21	25:CY:369:LEU:HB3	1.57	0.86
36:BA:212:G:H8	36:BA:212:G:H5'	1.40	0.86
36:BA:2189:U:C2'	36:BA:2190:G:H5''	2.05	0.86
1:AA:1054:C:O2'	1:AA:1055:A:H5''	1.76	0.86
36:DA:2138:C:H2'	36:DA:2139:C:C6	2.10	0.86
43:DH:157:TYR:HE1	43:DH:171:LEU:HD22	1.40	0.86
39:BD:183:ARG:HG2	39:BD:183:ARG:HH11	1.39	0.86
41:BF:20:LEU:HD23	41:BF:21:ALA:H	1.40	0.86
1:CA:509:A:H5'	1:CA:510:A:OP2	1.75	0.86
24:AX:11:A:H1'	24:AX:12:A:C8	2.09	0.86
45:DN:48:MET:CE	45:DN:48:MET:H	1.86	0.86
56:DY:8:LYS:HB2	56:DY:28:LYS:HZ1	1.36	0.86
36:BA:27:G:H22	36:BA:512:G:H2'	1.40	0.86
51:DT:115:ARG:HH11	51:DT:115:ARG:HB3	1.41	0.86
47:BP:23:PRO:HB2	47:BP:33:ARG:HG3	1.57	0.86
15:AO:80:ALA:HB1	15:AO:84:LYS:HE2	1.58	0.86
27:D1:46:LEU:HD22	27:D1:46:LEU:H	1.40	0.86
25:AY:406:GLU:HB3	25:AY:407:PRO:HD2	1.57	0.86
25:AY:409:ILE:HG12	25:AY:656:ALA:HB3	1.53	0.86
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.39	0.86
40:DE:1:MET:HB3	40:DE:200:GLU:OE2	1.76	0.86
2:CB:12:GLU:O	2:CB:14:GLY:N	2.09	0.86
54:BW:22:ASP:HA	54:BW:25:ARG:HH12	1.41	0.86
37:DB:65:C:N4	37:DB:109:C:H2'	1.91	0.86
55:DX:11:PRO:HA	55:DX:28:PHE:HB3	1.57	0.86
25:AY:15:ILE:HD11	25:AY:81:ILE:HG12	1.58	0.86
43:BH:157:TYR:HE1	43:BH:171:LEU:HD22	1.40	0.86
9:AI:119:ALA:O	9:AI:120:ARG:HG2	1.73	0.86
32:B6:5:VAL:HG23	36:BA:2283:C:H5'	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:2:LYS:HB2	36:DA:97:C:H5''	1.56	0.86
1:AA:1490:C:H5'	1:AA:1490:C:H6	1.39	0.86
36:DA:1142(A):A:C2'	36:DA:1143:A:H5''	2.05	0.86
47:DP:85:LEU:HD23	47:DP:85:LEU:H	1.41	0.86
36:BA:27:G:N2	36:BA:512:G:H2'	1.91	0.86
22:AV:53:G:H2'	22:AV:54:U:H6	1.39	0.86
48:DQ:62:GLY:HA2	57:DZ:116:VAL:HG21	1.55	0.86
23:CW:7:G:H3'	23:CW:8:U:H5'	1.58	0.86
52:BU:31:SER:HB3	52:BU:34:LYS:HB2	1.57	0.86
47:DP:40:SER:O	47:DP:41:ARG:HD2	1.76	0.86
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.56	0.86
47:DP:30:THR:HG22	47:DP:31:ALA:N	1.90	0.86
1:CA:998:G:H2'	1:CA:999:C:C2	2.11	0.86
2:AB:126:GLU:HA	2:AB:129:GLU:OE2	1.75	0.86
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.57	0.86
25:CY:330:VAL:HG12	25:CY:371:ALA:HA	1.58	0.86
38:DC:28:ARG:HG2	38:DC:183:PRO:HB3	1.58	0.86
36:DA:2795:G:H21	36:DA:2796:U:H5	1.20	0.86
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.57	0.86
36:BA:365:C:H6	36:BA:365:C:H5'	1.39	0.86
39:DD:183:ARG:HG2	39:DD:183:ARG:HH11	1.39	0.86
36:BA:288:C:H2'	36:BA:289:A:H8	1.41	0.86
36:DA:2562:U:H1'	46:DO:23:ARG:HH11	1.40	0.86
25:AY:35:TYR:OH	25:AY:266:ASN:HB3	1.75	0.86
25:CY:453:GLY:HA2	25:CY:458:HIS:CD2	2.11	0.85
47:BP:40:SER:O	47:BP:41:ARG:HD2	1.76	0.85
41:BF:132:VAL:HG22	41:BF:133:ASN:H	1.41	0.85
23:CW:30:G:C2'	23:CW:31:G:H5''	2.05	0.85
39:DD:44:ASN:HB3	39:DD:49:ILE:HA	1.55	0.85
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.76	0.85
31:D5:40:LYS:NZ	31:D5:46:CYS:H	1.73	0.85
56:BY:44:ILE:HG22	56:BY:45:VAL:H	1.39	0.85
34:D8:52:LYS:N	34:D8:53:PRO:HD2	1.92	0.85
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	1.76	0.85
46:DO:35:VAL:HG11	46:DO:103:ALA:HB3	1.56	0.85
39:BD:14:ARG:HG3	39:BD:15:PHE:N	1.91	0.85
36:BA:2425:A:H5'	36:BA:2427:C:O4'	1.76	0.85
3:CC:156:ARG:HH21	3:CC:161:GLU:HA	1.40	0.85
36:DA:2262:U:C2'	36:DA:2263:C:H5'	2.06	0.85
36:BA:2200:C:H42	36:BA:2223:G:H1	1.20	0.85
36:DA:914:C:H2'	36:DA:915:C:H5'	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.11	0.85
47:DP:23:PRO:HB2	47:DP:33:ARG:HG3	1.57	0.85
36:BA:1020:A:N1	36:BA:1141:U:H2'	1.90	0.85
36:BA:2795:G:H21	36:BA:2796:U:H5	1.19	0.85
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.58	0.85
56:DY:44:ILE:HG22	56:DY:45:VAL:H	1.40	0.85
12:AL:83:VAL:HG11	12:AL:100:ILE:HD13	1.59	0.85
43:DH:17:VAL:HG11	43:DH:50:VAL:HG21	1.59	0.85
25:CY:228:MET:O	25:CY:232:LEU:HD22	1.76	0.85
40:DE:179:GLU:HB3	40:DE:181:LEU:HD23	1.57	0.85
52:DU:91:ASP:OD1	52:DU:96:ALA:HB2	1.77	0.85
32:D6:15:GLU:HG3	32:D6:47:THR:HG21	1.58	0.85
1:AA:998:G:H2'	1:AA:999:C:C2	2.11	0.85
25:AY:71:THR:HG22	25:AY:80:ASN:OD1	1.76	0.85
36:DA:272(G):C:C2'	36:DA:272(H):C:H5''	2.07	0.85
51:BT:85:LYS:NZ	51:BT:85:LYS:HB3	1.90	0.85
36:DA:27:G:N2	36:DA:512:G:H2'	1.92	0.85
22:AV:15:G:H3'	22:AV:16:U:H5''	1.57	0.85
18:CR:58:LEU:HB3	18:CR:62:GLU:HB3	1.58	0.85
36:BA:395:U:H2'	36:BA:396:G:N7	1.92	0.85
42:DG:121:ASN:CB	42:DG:124:SER:HB2	2.06	0.85
51:BT:65:LYS:HZ2	51:BT:65:LYS:HA	1.40	0.85
2:CB:21:ARG:HD2	2:CB:39:ILE:HG12	1.59	0.85
51:DT:132:LYS:H	51:DT:132:LYS:HD3	1.38	0.85
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.59	0.85
42:BG:93:THR:O	42:BG:94:LEU:HD23	1.77	0.85
39:DD:147:LEU:HD13	39:DD:155:LEU:HD11	1.59	0.85
36:DA:1434:A:H61	36:DA:1558:A:N6	1.73	0.85
40:DE:38:THR:HB	40:DE:41:LYS:HG2	1.57	0.85
36:BA:2645:G:H4'	36:BA:2732:G:O2'	1.76	0.85
36:DA:212:G:H5'	36:DA:212:G:H8	1.41	0.85
25:AY:223:PHE:CZ	25:AY:249:GLY:HA3	2.12	0.85
36:DA:1824:G:OP1	39:DD:52:ARG:HD3	1.77	0.85
57:BZ:40:ASP:OD1	57:BZ:42:VAL:HG12	1.76	0.85
1:CA:686:U:HO2'	1:CA:687:A:H8	0.93	0.85
25:CY:32:ILE:O	25:CY:36:THR:HG23	1.77	0.85
25:AY:468:ARG:NH1	25:AY:468:ARG:HB3	1.91	0.85
47:BP:85:LEU:HD23	47:BP:85:LEU:H	1.40	0.85
27:D1:76:ARG:HH12	27:D1:95:LEU:HD22	1.40	0.85
43:BH:45:VAL:HA	43:BH:50:VAL:HG22	1.58	0.85
10:AJ:54:PHE:CE2	10:AJ:55:LYS:HD2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:17:VAL:O	43:DH:45:VAL:HG22	1.76	0.85
36:BA:2591:C:H2'	36:BA:2592:G:C8	2.11	0.85
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.59	0.85
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.41	0.85
36:DA:2778:A:H5'	36:DA:2779:U:OP1	1.77	0.85
36:DA:1947:C:H2'	36:DA:1948:G:H5''	1.57	0.85
36:BA:614(A):U:H4'	36:BA:614(B):G:H5''	1.59	0.85
52:BU:91:ASP:OD1	52:BU:96:ALA:HB2	1.76	0.84
36:BA:2262:U:C2'	36:BA:2263:C:H5'	2.06	0.84
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	1.90	0.84
47:BP:62:LEU:CD2	47:BP:62:LEU:H	1.88	0.84
28:B2:69:ARG:HG3	28:B2:70:GLN:H	1.42	0.84
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.57	0.84
36:DA:2138:C:H2'	36:DA:2139:C:H6	1.39	0.84
39:BD:70:TRP:CH2	39:BD:150:LYS:HA	2.12	0.84
19:CS:64:GLU:HG2	30:D4:48:ARG:HH22	1.42	0.84
25:AY:607:ARG:HG2	25:AY:646:PHE:CE1	2.11	0.84
36:BA:2310:A:O2'	36:BA:2311:A:H5'	1.77	0.84
36:BA:2876:G:H4'	51:BT:3:ARG:HE	1.42	0.84
36:BA:2672:G:H2'	36:BA:2673:G:H5''	1.57	0.84
36:DA:710:G:H2'	36:DA:711:G:H8	1.42	0.84
37:BB:65:C:N4	37:BB:109:C:H2'	1.92	0.84
1:AA:1237:C:H3'	1:AA:1238:A:H5'	1.59	0.84
12:CL:90:VAL:O	12:CL:92:ASP:N	2.10	0.84
53:DV:15:GLU:HB3	53:DV:16:PRO:CD	2.07	0.84
32:B6:11:LEU:HD23	32:B6:51:GLU:HG3	1.58	0.84
25:CY:606:MET:O	25:CY:646:PHE:HA	1.77	0.84
51:DT:23:ARG:O	51:DT:25:GLY:N	2.10	0.84
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.58	0.84
40:BE:36:ARG:HG2	40:BE:36:ARG:HH11	1.42	0.84
43:BH:17:VAL:O	43:BH:45:VAL:HG22	1.76	0.84
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.76	0.84
3:AC:3:ASN:O	3:AC:4:LYS:HB2	1.75	0.84
25:AY:19:ALA:HA	25:AY:121:VAL:HG11	1.59	0.84
53:BV:15:GLU:HB3	53:BV:16:PRO:CD	2.06	0.84
25:AY:427:ALA:HB1	25:AY:466:LEU:HD11	1.59	0.84
1:AA:80:G:H3'	1:AA:81:U:C5'	2.07	0.84
36:DA:27:G:H22	36:DA:512:G:H2'	1.41	0.84
42:BG:111:LEU:HA	42:BG:114:ILE:HD11	1.58	0.84
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.57	0.84
18:AR:58:LEU:HB3	18:AR:62:GLU:HB3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2425:A:H5'	36:DA:2427:C:O4'	1.78	0.84
25:AY:141:LYS:O	25:AY:144:ALA:HB2	1.77	0.84
36:BA:272(G):C:C2'	36:BA:272(H):C:H5''	2.06	0.84
36:BA:84:A:H5'	56:BY:9:LYS:HB3	1.57	0.84
36:DA:1899:G:N2	36:DA:1902:C:N4	2.24	0.84
36:DA:925:C:C2'	36:DA:926:A:H5''	2.07	0.84
34:B8:52:LYS:N	34:B8:53:PRO:HD2	1.93	0.84
6:CF:33:TYR:HA	6:CF:71:ARG:NH2	1.91	0.84
40:BE:179:GLU:HB3	40:BE:181:LEU:HD23	1.59	0.84
36:DA:288:C:H2'	36:DA:289:A:H8	1.41	0.84
1:CA:328:C:H2'	1:CA:328:C:O2	1.77	0.84
26:D0:43:THR:H	36:DA:2331:G:H4'	1.41	0.84
36:DA:1053:C:H2'	36:DA:1054:A:H5''	1.57	0.84
25:CY:605:ILE:HD11	25:CY:677:GLN:HG2	1.57	0.84
36:BA:1947:C:H2'	36:BA:1948:G:H5''	1.59	0.84
23:AW:50:U:H3	23:AW:64:G:H22	1.25	0.84
36:BA:1824:G:OP1	39:BD:52:ARG:HD3	1.78	0.84
45:DN:22:THR:HB	45:DN:25:ARG:HB2	1.60	0.84
51:DT:85:LYS:NZ	51:DT:85:LYS:HB3	1.91	0.84
51:DT:129:ARG:HH21	51:DT:132:LYS:HB3	1.42	0.84
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.57	0.84
40:BE:38:THR:HB	40:BE:41:LYS:HG2	1.60	0.84
36:BA:2306:C:H5''	36:BA:2307:G:O4'	1.78	0.84
47:DP:62:LEU:H	47:DP:62:LEU:CD2	1.89	0.84
51:DT:55:ASN:H	51:DT:59:THR:HG22	1.37	0.84
28:D2:37:PHE:HE1	55:DX:11:PRO:HB3	1.43	0.84
43:BH:121:ILE:HD11	43:BH:140:LYS:HB3	1.60	0.84
37:BB:82:G:O2'	37:BB:83:G:H5'	1.78	0.84
43:BH:13:LYS:HA	43:BH:13:LYS:HE2	1.59	0.84
55:DX:12:VAL:CG2	55:DX:13:LEU:H	1.91	0.84
36:BA:1070:A:H5'	36:BA:1072:C:OP2	1.76	0.84
36:DA:1504:C:H2'	36:DA:1505:C:H5''	1.58	0.84
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.78	0.84
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.12	0.84
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.59	0.84
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.08	0.84
23:CW:51:C:H2'	23:CW:52:G:H5''	1.60	0.84
43:DH:121:ILE:HD11	43:DH:140:LYS:HB3	1.60	0.84
1:AA:328:C:O2	1:AA:328:C:H2'	1.76	0.84
25:CY:628:ARG:HE	25:CY:648:PRO:HG2	1.43	0.84
36:BA:710:G:H2'	36:BA:711:G:H8	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2306:C:H5''	36:DA:2307:G:O4'	1.78	0.84
25:AY:607:ARG:HG2	25:AY:646:PHE:HE1	1.43	0.84
36:DA:2068:U:N3	36:DA:2430:A:H2	1.76	0.84
52:DU:31:SER:HB3	52:DU:34:LYS:HB2	1.60	0.84
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.59	0.84
5:AE:11:ILE:HD12	5:AE:31:LEU:HD12	1.59	0.84
25:AY:157:LEU:H	25:AY:157:LEU:HD23	1.43	0.84
36:DA:2591:C:H2'	36:DA:2592:G:C8	2.12	0.84
42:DG:77:ILE:HG21	42:DG:80:PHE:HB2	1.58	0.84
57:DZ:7:ALA:HB3	57:DZ:61:LEU:HD23	1.60	0.84
36:DA:581:C:H2'	36:DA:582:G:C8	2.13	0.84
12:AL:18:VAL:HG23	12:AL:19:ARG:N	1.93	0.83
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	1.93	0.83
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.79	0.83
36:BA:1658:C:OP1	40:BE:132:HIS:ND1	2.10	0.83
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.78	0.83
23:CW:30:G:H2'	23:CW:31:G:H5''	1.59	0.83
43:DH:45:VAL:HA	43:DH:50:VAL:HG22	1.59	0.83
1:CA:1423:G:H5'	46:DO:49:ARG:HH22	1.42	0.83
1:CA:1026:G:H2'	1:CA:1027:C:H5'	1.60	0.83
41:BF:25:PRO:HG3	41:BF:119:ARG:HB2	1.60	0.83
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.42	0.83
47:BP:125:VAL:O	47:BP:145:PRO:HD2	1.77	0.83
25:AY:415:PRO:HA	25:AY:474:ALA:CB	2.08	0.83
51:BT:129:ARG:HH21	51:BT:132:LYS:HB3	1.43	0.83
1:CA:100:C:H2'	1:CA:101:A:C8	2.13	0.83
41:DF:132:VAL:HG22	41:DF:133:ASN:H	1.42	0.83
25:CY:546:ILE:HD13	25:CY:565:VAL:HG11	1.60	0.83
5:CE:76:ILE:HG13	5:CE:142:LEU:HD13	1.59	0.83
42:BG:76:SER:CA	42:BG:83:ARG:HB3	2.08	0.83
36:BA:2778:A:H5'	36:BA:2779:U:OP1	1.78	0.83
12:AL:90:VAL:O	12:AL:92:ASP:N	2.09	0.83
36:DA:395:U:H2'	36:DA:396:G:N7	1.93	0.83
1:CA:1502:A:H2	1:CA:1505:G:H1	1.24	0.83
42:BG:63:ILE:HD12	42:BG:64:THR:N	1.94	0.83
41:DF:84:VAL:HG12	41:DF:85:GLY:H	1.41	0.83
36:BA:2562:U:H1'	46:BO:23:ARG:HH11	1.40	0.83
42:DG:112:PRO:C	42:DG:113:ARG:HA	1.99	0.83
57:BZ:9:TYR:HE1	57:BZ:61:LEU:HD13	1.42	0.83
45:BN:23:LEU:HB3	45:BN:60:ILE:HG21	1.60	0.83
32:D6:37:ARG:NH2	36:DA:2286:A:H62	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:4:HIS:HB3	31:D5:5:PRO:HD3	1.59	0.83
36:BA:2068:U:N3	36:BA:2430:A:H2	1.76	0.83
25:AY:510:VAL:HA	25:AY:570:GLY:HA3	1.60	0.83
36:DA:1658:C:OP1	40:DE:132:HIS:ND1	2.10	0.83
36:BA:914:C:H2'	36:BA:915:C:H5'	1.57	0.83
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.60	0.83
3:CC:79:ARG:HH11	3:CC:79:ARG:HB2	1.41	0.83
25:CY:353:ALA:O	25:CY:354:ARG:HB2	1.79	0.83
36:DA:2312:U:H2'	36:DA:2313:C:H5''	1.60	0.83
59:CY:701:FUA:H231	59:CY:701:FUA:H122	1.59	0.83
41:DF:25:PRO:HG3	41:DF:119:ARG:HB2	1.61	0.83
40:BE:111:ARG:HG3	49:BR:2:ARG:HG2	1.61	0.83
36:BA:1142(A):A:H4'	45:BN:25:ARG:HH22	1.42	0.83
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.13	0.83
25:CY:548:GLU:O	25:CY:551:GLN:HG2	1.78	0.83
36:DA:833:U:H5''	47:DP:48:PRO:HB3	1.60	0.83
15:CO:80:ALA:HB1	15:CO:84:LYS:HE2	1.59	0.83
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.59	0.83
39:BD:144:ALA:HB3	39:BD:192:THR:HG23	1.61	0.83
25:AY:230:LYS:HZ1	25:AY:237:PRO:HA	1.44	0.83
1:AA:1004:A:H5'	1:AA:1025:U:N3	1.93	0.83
27:D1:76:ARG:NH2	27:D1:95:LEU:HD13	1.92	0.83
20:CT:50:GLU:HB3	20:CT:99:LEU:HB2	1.61	0.83
36:BA:1504:C:H2'	36:BA:1505:C:H5''	1.57	0.83
42:BG:51:ARG:CZ	42:BG:53:LEU:HD21	2.08	0.83
1:CA:736:C:H2'	1:CA:737:A:C8	2.14	0.83
3:CC:3:ASN:O	3:CC:4:LYS:HB2	1.78	0.83
1:AA:100:C:H2'	1:AA:101:A:C8	2.12	0.83
42:DG:112:PRO:O	42:DG:113:ARG:HA	1.79	0.83
42:DG:73:ALA:H	42:DG:87:PRO:CG	1.91	0.83
25:CY:289:ILE:O	25:CY:290:LYS:HG3	1.78	0.83
57:BZ:166:SER:HB2	57:BZ:167:PRO:C	1.98	0.83
36:DA:1494:A:C2'	36:DA:1495:A:H5''	2.08	0.83
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.09	0.83
23:AW:14:A:C3'	23:AW:15:G:H5''	2.07	0.83
9:CI:5:TYR:CD1	9:CI:6:GLY:N	2.46	0.83
51:BT:129:ARG:O	51:BT:131:ALA:N	2.12	0.83
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.42	0.83
24:CX:11:A:C4'	24:CX:12:A:H5'	2.08	0.83
25:CY:453:GLY:HA2	25:CY:458:HIS:HD2	1.42	0.83
32:D6:11:LEU:HD23	32:D6:51:GLU:HG3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:80:ILE:HG22	8:CH:104:ARG:NH2	1.92	0.83
39:DD:14:ARG:HG3	39:DD:15:PHE:N	1.92	0.83
40:DE:116:VAL:O	40:DE:117:MET:HB3	1.77	0.83
32:B6:15:GLU:HG3	32:B6:47:THR:HG21	1.60	0.83
3:AC:156:ARG:HH21	3:AC:161:GLU:HA	1.43	0.83
36:BA:1452:A:C3'	36:BA:1453:U:H5''	2.07	0.83
1:CA:1112:C:O2	3:CC:179:ARG:HG3	1.79	0.83
43:BH:16:SER:HB2	43:BH:27:LYS:HB2	1.60	0.83
36:BA:1053:C:H2'	36:BA:1054:A:H5''	1.59	0.83
2:CB:126:GLU:HA	2:CB:129:GLU:OE2	1.78	0.83
36:DA:2645:G:H4'	36:DA:2732:G:O2'	1.79	0.82
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	1.61	0.82
25:CY:605:ILE:CG2	25:CY:646:PHE:HB3	2.09	0.82
1:CA:1234:C:O2'	1:CA:1235:U:H5'	1.77	0.82
41:DF:63:LYS:HE3	41:DF:67:GLN:HB2	1.61	0.82
47:DP:59:LEU:HA	47:DP:61:ARG:CZ	2.09	0.82
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.42	0.82
2:CB:43:ASP:OD2	2:CB:46:LYS:HB2	1.77	0.82
1:AA:1442:G:C6	1:AA:1442(B):A:H2	1.97	0.82
42:DG:46:ALA:CB	42:DG:88:ILE:HB	2.07	0.82
1:AA:793:U:C3'	1:AA:794:A:H5''	2.09	0.82
32:B6:10:LEU:CD2	32:B6:10:LEU:H	1.92	0.82
36:BA:925:C:C2'	36:BA:926:A:H5''	2.09	0.82
25:AY:431:LEU:HD22	25:AY:466:LEU:HD13	1.59	0.82
1:CA:1004:A:H5'	1:CA:1025:U:N3	1.92	0.82
4:CD:36:ARG:HH11	4:CD:36:ARG:HB3	1.41	0.82
2:AB:12:GLU:O	2:AB:14:GLY:N	2.10	0.82
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.62	0.82
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.61	0.82
57:DZ:10:ARG:HH21	57:DZ:26:GLY:H	1.28	0.82
47:DP:125:VAL:O	47:DP:145:PRO:HD2	1.76	0.82
36:BA:1494:A:C2'	36:BA:1495:A:H5''	2.08	0.82
39:DD:70:TRP:CH2	39:DD:150:LYS:HA	2.14	0.82
36:BA:581:C:H2'	36:BA:582:G:C8	2.14	0.82
1:CA:1503:A:N1	24:CX:11:A:N3	2.26	0.82
25:CY:82:ILE:HD12	25:CY:101:LEU:HD23	1.58	0.82
32:D6:5:VAL:HG23	36:DA:2283:C:H5'	1.58	0.82
23:CW:68:C:H2'	23:CW:69:C:C6	2.14	0.82
25:AY:227:ILE:HD12	25:AY:245:ALA:HB2	1.62	0.82
56:BY:17:SER:CB	56:BY:71:LYS:HD2	2.09	0.82
36:DA:364:C:H2'	36:DA:365:C:H5''	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:1:C:H2'	23:CW:2:G:H8	1.42	0.82
26:B0:43:THR:H	36:BA:2331:G:H4'	1.42	0.82
45:DN:23:LEU:HB3	45:DN:60:ILE:HG21	1.60	0.82
40:DE:111:ARG:HG3	49:DR:2:ARG:HG2	1.61	0.82
1:CA:80:G:H3'	1:CA:81:U:C5'	2.08	0.82
23:AW:24:U:H2'	23:AW:25:C:H6	1.45	0.82
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.61	0.82
36:DA:226:G:H4'	36:DA:227:A:OP1	1.80	0.82
31:D5:55:ARG:O	31:D5:56:LYS:HB2	1.79	0.82
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.61	0.82
36:DA:1516:C:C2'	36:DA:1517:G:H5''	2.09	0.82
47:DP:41:ARG:HH11	47:DP:41:ARG:HA	1.43	0.82
4:AD:36:ARG:HB3	4:AD:36:ARG:HH11	1.43	0.82
49:DR:7:GLY:O	49:DR:8:ARG:HB2	1.79	0.82
20:CT:13:LEU:H	20:CT:13:LEU:HD12	1.43	0.82
1:AA:182:U:H5'	1:AA:183:G:OP2	1.79	0.82
36:BA:406:G:HO2'	36:BA:407:G:H8	1.27	0.82
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.42	0.82
36:BA:226:G:H4'	36:BA:227:A:OP1	1.78	0.82
1:CA:148:G:H2'	1:CA:149:A:C8	2.14	0.82
42:BG:59:GLU:HA	42:BG:62:LEU:HD13	1.59	0.82
41:BF:84:VAL:HG12	41:BF:85:GLY:H	1.44	0.82
13:CM:82:MET:HA	13:CM:93:ARG:HH21	1.43	0.82
41:DF:53:THR:HG22	41:DF:56:GLU:HG3	1.61	0.82
51:BT:115:ARG:HB3	51:BT:115:ARG:HH11	1.43	0.82
39:DD:132:PRO:HG3	39:DD:190:TYR:CE1	2.15	0.82
47:DP:7:ARG:O	47:DP:10:PRO:HD2	1.80	0.82
36:BA:1242:A:H5'	36:BA:1243:G:OP2	1.79	0.82
47:BP:55:ARG:HG2	47:BP:56:SER:N	1.94	0.82
26:D0:25:ARG:HD2	26:D0:29:GLN:NE2	1.95	0.82
1:AA:148:G:H2'	1:AA:149:A:C8	2.15	0.82
5:AE:76:ILE:HG13	5:AE:142:LEU:HD13	1.60	0.82
1:CA:1116:C:H2'	1:CA:1117:G:H5'	1.62	0.82
25:AY:149:VAL:O	25:AY:152:THR:HG22	1.79	0.82
9:AI:5:TYR:CD1	9:AI:6:GLY:N	2.47	0.82
36:BA:545:C:H2'	36:BA:547:A:H5''	1.60	0.82
39:DD:108:PRO:HG2	39:DD:111:LEU:HB2	1.61	0.82
36:DA:621:A:H2'	36:DA:622:G:H5'	1.60	0.82
3:AC:79:ARG:HB2	3:AC:79:ARG:HH11	1.45	0.82
36:DA:2876:G:H4'	51:DT:3:ARG:HE	1.44	0.82
36:DA:2310:A:O2'	36:DA:2311:A:H5'	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:30:ARG:HD3	50:DS:97:ARG:HG2	1.62	0.82
52:DU:92:ARG:HD3	52:DU:94:ASN:HB3	1.61	0.82
39:BD:35:LYS:NZ	39:BD:36:PRO:HD3	1.95	0.82
31:B5:19:ARG:HA	36:BA:2046:G:H5'	1.62	0.82
25:AY:289:ILE:HG13	25:AY:331:TYR:CD1	2.15	0.82
1:CA:1237:C:H3'	1:CA:1238:A:H5'	1.60	0.82
39:BD:108:PRO:HG2	39:BD:111:LEU:HB2	1.61	0.82
22:AV:36:A:N6	24:AX:16:U:O4	2.13	0.81
36:DA:612:C:H2'	36:DA:613:G:C5'	2.08	0.81
53:BV:15:GLU:CB	53:BV:16:PRO:HD2	2.10	0.81
39:BD:166:GLN:HA	39:BD:166:GLN:NE2	1.95	0.81
31:B5:2:ALA:CA	36:BA:2015:A:H1'	2.09	0.81
36:BA:833:U:H5''	47:BP:48:PRO:HB3	1.62	0.81
56:DY:17:SER:CB	56:DY:71:LYS:HD2	2.09	0.81
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.77	0.81
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.10	0.81
43:DH:13:LYS:HA	43:DH:13:LYS:HE2	1.60	0.81
45:DN:43:THR:O	45:DN:46:VAL:HG12	1.80	0.81
27:B1:56:GLN:HA	27:B1:56:GLN:HE21	1.43	0.81
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.09	0.81
36:BA:2009:G:H1'	49:BR:107:ASP:O	1.80	0.81
43:DH:16:SER:HB2	43:DH:27:LYS:HB2	1.60	0.81
42:DG:71:THR:HG23	42:DG:89:GLY:C	2.01	0.81
55:BX:12:VAL:CG2	55:BX:13:LEU:H	1.92	0.81
25:CY:488:THR:HG23	25:CY:600:VAL:HB	1.60	0.81
1:CA:793:U:C3'	1:CA:794:A:H5''	2.09	0.81
36:DA:2103:C:C2'	36:DA:2104:G:H5''	2.09	0.81
1:AA:656:C:H4'	15:AO:62:GLN:NE2	1.95	0.81
36:DA:1242:A:H5'	36:DA:1243:G:OP2	1.80	0.81
13:AM:8:GLU:OE1	13:AM:22:ILE:HA	1.80	0.81
47:BP:41:ARG:HA	47:BP:41:ARG:HH11	1.44	0.81
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.62	0.81
39:DD:112:GLN:H	39:DD:115:GLN:NE2	1.79	0.81
48:DQ:39:PRO:HB3	48:DQ:99:PRO:HD3	1.62	0.81
36:DA:614(A):U:H4'	36:DA:614(B):G:H5''	1.60	0.81
25:AY:145:ASP:HB3	25:AY:148:LEU:HB2	1.61	0.81
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.80	0.81
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.44	0.81
51:BT:30:VAL:HG21	51:BT:83:ILE:HG12	1.63	0.81
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	1.60	0.81
25:AY:428:LEU:HD13	25:AY:440:VAL:HG11	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:545:C:H2'	36:DA:547:A:H5''	1.62	0.81
57:DZ:18:LEU:HD12	57:DZ:18:LEU:H	1.46	0.81
25:CY:90:PHE:CZ	59:CY:701:FUA:H121	2.15	0.81
36:DA:2009:G:H1'	49:DR:107:ASP:O	1.79	0.81
55:DX:53:LYS:HD2	55:DX:55:ASN:HD21	1.46	0.81
45:DN:45:ASN:HD22	45:DN:45:ASN:N	1.75	0.81
36:DA:2723:C:C5'	49:DR:2:ARG:HH11	1.92	0.81
25:AY:427:ALA:HB1	25:AY:466:LEU:CD1	2.11	0.81
25:CY:548:GLU:OE1	25:CY:583:LYS:HE2	1.81	0.81
36:BA:2852:G:H2'	36:BA:2853:C:C6	2.15	0.81
36:DA:6:A:O2'	45:DN:130:HIS:HB2	1.79	0.81
25:CY:573:HIS:CD2	25:CY:576:ASP:H	1.97	0.81
40:BE:116:VAL:O	40:BE:117:MET:HB3	1.78	0.81
36:DA:1142(A):A:H4'	45:DN:25:ARG:HH22	1.43	0.81
25:AY:415:PRO:HG3	25:AY:421:GLN:HG2	1.61	0.81
36:BA:2103:C:C2'	36:BA:2104:G:H5''	2.10	0.81
38:DC:31:LYS:HE3	38:DC:179:ALA:O	1.80	0.81
49:BR:7:GLY:O	49:BR:8:ARG:HB2	1.79	0.81
46:DO:63:VAL:HG23	46:DO:64:ARG:HG3	1.61	0.81
25:CY:156:ARG:HB2	25:CY:157:LEU:HD23	1.61	0.81
36:DA:2523:G:H2'	36:DA:2524:G:C5'	2.10	0.81
41:BF:63:LYS:HE3	41:BF:67:GLN:HB2	1.61	0.81
1:CA:656:C:H4'	15:CO:62:GLN:NE2	1.95	0.81
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.81	0.81
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.44	0.81
51:DT:129:ARG:O	51:DT:131:ALA:N	2.13	0.81
57:DZ:111:VAL:O	57:DZ:112:ARG:HB2	1.78	0.81
39:BD:147:LEU:HD13	39:BD:155:LEU:HD11	1.62	0.81
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.46	0.81
23:CW:34:C:O2'	23:CW:35:A:C5'	2.29	0.81
42:DG:72:ARG:HB3	42:DG:87:PRO:HD2	1.62	0.81
51:DT:108:ARG:HG3	51:DT:109:GLU:N	1.93	0.81
13:CM:8:GLU:OE1	13:CM:22:ILE:HA	1.80	0.81
43:DH:169:VAL:HG22	43:DH:170:ARG:H	1.46	0.81
25:CY:281:PRO:HB2	25:CY:286:ILE:HD11	1.61	0.81
36:DA:406:G:HO2'	36:DA:407:G:H8	1.26	0.81
5:CE:11:ILE:HD12	5:CE:31:LEU:HD12	1.61	0.81
24:CX:17:U:H2'	24:CX:18:C:H6	1.44	0.81
45:DN:45:ASN:H	45:DN:45:ASN:ND2	1.79	0.81
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.60	0.81
43:BH:83:TYR:HB3	43:BH:134:SER:HA	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:134:ILE:HD11	3:CC:153:VAL:HG23	1.62	0.81
51:DT:30:VAL:HG21	51:DT:83:ILE:HG12	1.61	0.81
1:AA:438:G:H4'	1:AA:439:A:OP1	1.81	0.81
25:AY:33:LEU:HD23	25:AY:360:ALA:HB2	1.61	0.81
49:DR:99:LYS:H	49:DR:99:LYS:CD	1.84	0.81
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.45	0.81
46:BO:63:VAL:HG23	46:BO:64:ARG:HG3	1.63	0.81
12:CL:47:LYS:NZ	12:CL:48:PRO:HD3	1.96	0.81
36:DA:1779:U:H5	36:DA:1784:A:N7	1.79	0.81
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.81	0.81
25:CY:17:ILE:O	25:CY:85:PRO:HG2	1.79	0.81
31:B5:55:ARG:O	31:B5:56:LYS:HB2	1.79	0.81
32:B6:37:ARG:NH2	36:BA:2286:A:H62	1.77	0.81
12:CL:70:ILE:HG23	12:CL:100:ILE:HD12	1.61	0.81
1:CA:182:U:H5'	1:CA:183:G:OP2	1.81	0.81
36:BA:1436:G:H1'	36:BA:1477:A:O2'	1.80	0.81
41:DF:154:VAL:HG22	41:DF:191:ARG:HB3	1.63	0.81
25:AY:171:GLU:HG3	25:AY:172:ASP:H	1.46	0.80
32:D6:10:LEU:H	32:D6:10:LEU:CD2	1.93	0.80
25:AY:555:LEU:HD11	25:AY:599:PRO:O	1.81	0.80
2:CB:20:GLU:O	2:CB:39:ILE:HG23	1.81	0.80
36:BA:2712:U:O2'	36:BA:2712(A):A:H8	1.64	0.80
36:DA:1539:G:C2	36:DA:1540:U:H1'	2.16	0.80
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.44	0.80
36:DA:936:C:H2'	36:DA:937:U:C6	2.17	0.80
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.44	0.80
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	1.95	0.80
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	1.97	0.80
52:DU:47:TYR:HA	52:DU:50:ARG:NH1	1.96	0.80
23:AW:34:C:O2'	23:AW:35:A:C5'	2.29	0.80
42:DG:39:ILE:HG13	42:DG:92:VAL:HG23	1.62	0.80
25:AY:84:THR:HG23	59:AY:701:FUA:C31	2.11	0.80
57:BZ:166:SER:HB2	57:BZ:167:PRO:CA	2.11	0.80
1:AA:792:A:O2'	1:AA:794:A:N7	2.13	0.80
36:DA:1644:C:O2	36:DA:1644:C:H2'	1.81	0.80
54:DW:107:LEU:H	54:DW:107:LEU:HD22	1.46	0.80
24:AX:17:U:H2'	24:AX:18:C:H6	1.43	0.80
28:D2:2:LYS:CB	36:DA:97:C:H5''	2.10	0.80
47:BP:7:ARG:O	47:BP:10:PRO:HD2	1.81	0.80
36:BA:1658:C:H2'	36:BA:1659:U:C6	2.16	0.80
36:BA:621:A:H2'	36:BA:622:G:H5'	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:16:ARG:HH11	3:AC:16:ARG:HB2	1.46	0.80
36:BA:6:A:O2'	45:BN:130:HIS:HB2	1.79	0.80
39:DD:106:ILE:HD11	39:DD:196:VAL:HG13	1.63	0.80
36:DA:1290:C:H2'	36:DA:1291:C:H6	1.44	0.80
36:BA:1876:A:H2'	36:BA:1877:A:C8	2.16	0.80
28:D2:12:GLU:O	28:D2:16:LEU:HG	1.82	0.80
45:BN:22:THR:HB	45:BN:25:ARG:HB2	1.61	0.80
25:AY:201:ILE:H	25:AY:201:ILE:HD12	1.45	0.80
36:BA:1516:C:C2'	36:BA:1517:G:H5''	2.09	0.80
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.17	0.80
43:BH:43:VAL:HG11	43:BH:52:VAL:HG22	1.64	0.80
27:D1:26:ARG:HG3	27:D1:27:GLU:HG3	1.62	0.80
24:AX:11:A:C1'	24:AX:12:A:C8	2.65	0.80
43:BH:169:VAL:HG22	43:BH:170:ARG:H	1.46	0.80
25:CY:238:THR:HG23	25:CY:241:GLU:H	1.47	0.80
31:D5:2:ALA:CA	36:DA:2015:A:H1'	2.11	0.80
51:BT:102:ILE:O	51:BT:106:SER:HB3	1.82	0.80
36:DA:2712:U:HO2'	36:DA:2712(A):A:H8	0.83	0.80
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.46	0.80
23:CW:50:U:H3	23:CW:64:G:H22	1.30	0.80
25:AY:149:VAL:O	25:AY:153:MET:N	2.13	0.80
51:DT:30:VAL:HG21	51:DT:84:GLN:H	1.45	0.80
39:DD:71:ASP:HB2	39:DD:103:ARG:HH22	1.44	0.80
1:AA:736:C:H2'	1:AA:737:A:C8	2.14	0.80
1:AA:579:G:H5'	1:AA:728:A:H1'	1.64	0.80
4:AD:108:LEU:HD21	4:AD:183:GLY:HA3	1.62	0.80
36:BA:9:U:H5	36:BA:2629:A:H62	1.29	0.80
26:D0:11:ARG:HB2	26:D0:11:ARG:NH1	1.96	0.80
7:AG:45:ASP:O	7:AG:49:ILE:HG12	1.81	0.80
1:AA:625:G:H2'	1:AA:626:U:C6	2.17	0.80
36:BA:1747(A):G:H2'	36:BA:1748:G:C5'	2.10	0.80
1:CA:792:A:O2'	1:CA:794:A:N7	2.14	0.80
47:BP:59:LEU:HA	47:BP:61:ARG:CZ	2.11	0.80
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.63	0.80
25:CY:12:LEU:O	25:CY:283:PRO:HD3	1.81	0.80
51:BT:30:VAL:HG21	51:BT:84:GLN:H	1.46	0.80
52:DU:55:ARG:HA	52:DU:58:ARG:HG3	1.63	0.80
36:DA:1188:U:O2'	36:DA:1189:A:H5'	1.80	0.80
41:BF:154:VAL:HG22	41:BF:191:ARG:HB3	1.64	0.80
4:CD:8:VAL:C	4:CD:10:ARG:H	1.84	0.80
28:B2:36:ARG:HA	28:B2:39:ALA:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:799:G:H3'	36:BA:800:A:H5''	1.61	0.80
36:BA:1614:A:H62	54:BW:93:ALA:HB2	1.47	0.80
40:DE:36:ARG:HG2	40:DE:36:ARG:HH11	1.44	0.80
22:AV:36:A:C6	24:AX:16:U:O4	2.35	0.80
42:DG:91:ARG:HD2	42:DG:92:VAL:N	1.97	0.80
45:BN:45:ASN:ND2	45:BN:45:ASN:H	1.78	0.80
50:BS:101:LEU:O	50:BS:101:LEU:HD12	1.82	0.80
36:BA:2723:C:C5'	49:BR:2:ARG:HH11	1.93	0.80
20:CT:57:ARG:HH11	20:CT:102:GLY:HA2	1.46	0.80
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.80	0.80
36:DA:581:C:H2'	36:DA:582:G:H8	1.45	0.80
41:BF:170:LEU:HB2	41:BF:173:VAL:HB	1.63	0.80
20:AT:50:GLU:HB3	20:AT:99:LEU:HB2	1.63	0.80
36:BA:2523:G:H2'	36:BA:2524:G:C5'	2.10	0.80
47:DP:38:GLN:HG3	47:DP:39:LYS:H	1.46	0.80
36:BA:2312:U:H2'	36:BA:2313:C:H5''	1.62	0.80
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.64	0.80
57:DZ:151:HIS:HB3	57:DZ:170:THR:HA	1.64	0.80
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.46	0.80
43:BH:124:GLU:HG3	43:BH:132:ARG:HG3	1.63	0.80
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.47	0.80
9:CI:53:VAL:HG23	9:CI:55:ALA:HB3	1.63	0.80
36:DA:676:A:H8	36:DA:2069:G:H21	1.28	0.80
41:BF:53:THR:HG22	41:BF:56:GLU:HG3	1.62	0.80
23:CW:22:G:C2'	23:CW:23:C:H5''	2.11	0.80
24:AX:17:U:H2'	24:AX:18:C:C6	2.17	0.80
40:BE:38:THR:HG22	40:BE:40:GLU:N	1.94	0.80
53:DV:15:GLU:CB	53:DV:16:PRO:HD2	2.11	0.80
6:AF:33:TYR:HA	6:AF:71:ARG:NH2	1.95	0.80
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.64	0.80
36:DA:1876:A:H2'	36:DA:1877:A:C8	2.16	0.80
38:DC:184:GLU:HB2	38:DC:185:LYS:HZ1	1.45	0.80
38:DC:73:VAL:HG11	38:DC:158:LYS:HA	1.64	0.80
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	1.82	0.80
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.47	0.80
43:DH:124:GLU:HG3	43:DH:132:ARG:HG3	1.63	0.80
24:AX:11:A:C4'	24:AX:12:A:H5'	2.08	0.80
45:BN:43:THR:O	45:BN:46:VAL:HG12	1.81	0.80
12:CL:18:VAL:HG23	12:CL:19:ARG:N	1.95	0.80
39:DD:61:LEU:HB3	39:DD:63:ARG:HH12	1.47	0.80
36:DA:2524:G:H8	36:DA:2524:G:H5'	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:47:ASN:ND2	36:DA:94(A):G:H21	1.79	0.80
39:BD:24:ILE:HG23	39:BD:25:THR:H	1.47	0.80
1:AA:1226:C:N4	13:AM:104:ARG:HD2	1.97	0.80
22:AV:51:U:H3	22:AV:63:G:H1	1.30	0.80
48:BQ:39:PRO:HB3	48:BQ:99:PRO:HD3	1.64	0.80
36:DA:9:U:H5	36:DA:2629:A:H62	1.29	0.80
13:AM:82:MET:HA	13:AM:93:ARG:HH21	1.43	0.80
50:BS:30:ARG:HD3	50:BS:97:ARG:HG2	1.62	0.79
23:CW:14:A:C3'	23:CW:15:G:H5''	2.09	0.79
36:BA:195:A:OP1	47:BP:46:LYS:HE2	1.82	0.79
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.81	0.79
36:BA:1539:G:C2	36:BA:1540:U:H1'	2.17	0.79
11:AK:99:GLN:HG2	11:AK:105:VAL:HG21	1.64	0.79
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	1.82	0.79
24:CX:18:C:C5'	24:CX:19:A:OP1	2.30	0.79
1:AA:1503:A:C2	24:AX:11:A:C2	2.70	0.79
36:BA:1899:G:N2	36:BA:1902:C:N4	2.27	0.79
1:CA:1002:G:H22	1:CA:1039:C:H2'	1.47	0.79
3:CC:157:ILE:HD12	3:CC:164:ARG:HB2	1.64	0.79
15:CO:33:THR:HG21	15:CO:85:LEU:HD21	1.64	0.79
57:BZ:115:GLY:N	57:BZ:177:PRO:HG3	1.97	0.79
24:CX:11:A:C1'	24:CX:12:A:C8	2.65	0.79
37:BB:7:G:H5'	50:BS:29:PHE:CE2	2.17	0.79
56:BY:8:LYS:HB2	56:BY:28:LYS:HZ1	1.46	0.79
39:BD:166:GLN:CA	39:BD:166:GLN:HE21	1.95	0.79
51:BT:108:ARG:HG3	51:BT:109:GLU:N	1.97	0.79
51:BT:23:ARG:HG2	51:BT:120:ARG:NH1	1.97	0.79
36:BA:364:C:H2'	36:BA:365:C:H5''	1.64	0.79
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.44	0.79
1:AA:1116:C:H2'	1:AA:1117:G:H5'	1.63	0.79
3:CC:173:VAL:HG12	3:CC:175:LEU:HD12	1.63	0.79
24:AX:18:C:C5'	24:AX:19:A:OP1	2.30	0.79
39:BD:132:PRO:HG3	39:BD:190:TYR:CE1	2.17	0.79
51:BT:23:ARG:O	51:BT:25:GLY:N	2.15	0.79
41:DF:185:ASP:HA	41:DF:188:ARG:HG2	1.63	0.79
12:CL:83:VAL:HG11	12:CL:100:ILE:HD13	1.65	0.79
26:D0:10:THR:HG22	26:D0:11:ARG:H	1.47	0.79
26:B0:10:THR:HG22	26:B0:11:ARG:H	1.47	0.79
36:DA:799:G:H3'	36:DA:800:A:H5''	1.62	0.79
25:CY:568:TYR:CE1	25:CY:569:ASP:HB2	2.18	0.79
27:B1:76:ARG:NH2	27:B1:95:LEU:HD22	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.83	0.79
36:DA:1689:A:H62	36:DA:1698:A:H2	1.29	0.79
36:BA:2852:G:H2'	36:BA:2853:C:H6	1.47	0.79
1:AA:1112:C:O2	3:AC:179:ARG:HG3	1.82	0.79
48:BQ:56:ARG:HH21	57:BZ:180:VAL:HG21	1.47	0.79
39:DD:91:ARG:HG2	39:DD:91:ARG:HH11	1.48	0.79
36:DA:1285:G:H2'	36:DA:1286:A:H5'	1.65	0.79
51:BT:60:THR:HG22	51:BT:77:PRO:HA	1.65	0.79
36:BA:978:G:H1	36:BA:985:C:H42	1.30	0.79
25:CY:584:ILE:O	25:CY:588:MET:HG3	1.82	0.79
47:DP:30:THR:CG2	47:DP:31:ALA:H	1.95	0.79
25:CY:223:PHE:CZ	25:CY:249:GLY:HA3	2.16	0.79
41:BF:34:TRP:HB2	47:BP:10:PRO:HB2	1.65	0.79
47:BP:38:GLN:HG3	47:BP:39:LYS:H	1.46	0.79
1:CA:1490:C:C6	1:CA:1490:C:H5'	2.18	0.79
49:DR:10:LEU:HD22	49:DR:17:ARG:HD3	1.63	0.79
36:DA:1658:C:H2'	36:DA:1659:U:C6	2.18	0.79
39:BD:263:ARG:NH1	39:BD:263:ARG:HB2	1.98	0.79
47:DP:77:ARG:HB2	47:DP:78:PRO:HD2	1.64	0.79
25:AY:165:GLN:HB2	25:AY:260:LEU:HD11	1.65	0.79
47:BP:91:PHE:H	47:BP:91:PHE:HD1	1.29	0.79
28:B2:69:ARG:CG	28:B2:70:GLN:H	1.95	0.79
47:DP:47:ASP:HB3	47:DP:48:PRO:CA	2.13	0.79
1:CA:1489:G:H2'	1:CA:1490:C:H5"	1.65	0.79
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.48	0.79
1:CA:438:G:H4'	1:CA:439:A:OP1	1.82	0.79
36:BA:2316:C:H1'	42:BG:128:ARG:NH2	1.97	0.79
39:BD:112:GLN:H	39:BD:115:GLN:NE2	1.80	0.79
22:CV:52:G:H2'	22:CV:53:G:C8	2.18	0.79
24:CX:17:U:H2'	24:CX:18:C:C6	2.17	0.79
38:DC:128:LEU:HD12	38:DC:132:LEU:HG	1.65	0.79
1:AA:1503:A:C2	24:AX:11:A:H2	2.01	0.79
42:DG:116:ASP:O	42:DG:117:PHE:HB3	1.82	0.79
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.82	0.79
56:BY:8:LYS:HB2	56:BY:28:LYS:HZ3	1.43	0.79
25:AY:439:ARG:N	25:AY:452:SER:HB3	1.96	0.79
36:BA:2334:G:H5'	50:BS:13:ARG:HD3	1.65	0.79
26:B0:25:ARG:HD2	26:B0:29:GLN:NE2	1.96	0.79
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.46	0.79
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.62	0.79
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1436:G:H1'	36:DA:1477:A:O2'	1.81	0.79
25:CY:509:HIS:ND1	25:CY:570:GLY:HA2	1.98	0.79
27:B1:3:LYS:HG3	27:B1:4:VAL:N	1.96	0.79
52:BU:95:LEU:HD12	53:BV:11:GLN:HE21	1.46	0.79
23:CW:3:C:C2'	23:CW:4:G:H5''	2.13	0.79
10:AJ:69:ASN:O	10:AJ:70:ARG:HD2	1.82	0.79
20:AT:57:ARG:HH11	20:AT:102:GLY:HA2	1.45	0.79
53:BV:28:GLU:HB2	53:BV:31:ALA:CB	2.12	0.79
51:BT:55:ASN:H	51:BT:59:THR:CG2	1.96	0.79
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.63	0.79
13:AM:3:ARG:NH2	13:AM:7:VAL:HG13	1.97	0.79
1:CA:973:G:H3'	1:CA:974:A:H5''	1.64	0.79
39:BD:44:ASN:CB	39:BD:49:ILE:HA	2.13	0.79
22:AV:53:G:H2'	22:AV:54:U:C6	2.18	0.79
26:B0:11:ARG:HB2	26:B0:11:ARG:NH1	1.97	0.79
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.17	0.79
36:BA:1188:U:O2'	36:BA:1189:A:H5'	1.83	0.79
23:AW:34:C:O2'	23:AW:35:A:C4'	2.31	0.79
36:DA:978:G:H1	36:DA:985:C:N4	1.80	0.79
50:DS:106:ARG:HH11	50:DS:106:ARG:HB3	1.47	0.79
22:CV:52:G:H2'	22:CV:53:G:H8	1.48	0.79
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.47	0.79
36:BA:2110:G:O2'	36:BA:2120:G:H5'	1.83	0.79
40:DE:59:VAL:HG11	40:DE:63:LEU:HG	1.65	0.79
57:BZ:77:ASP:O	57:BZ:79:ARG:N	2.16	0.79
36:DA:2756:U:H4'	36:DA:2757:A:OP1	1.81	0.79
4:AD:8:VAL:C	4:AD:10:ARG:H	1.85	0.79
36:DA:1314:C:H6	36:DA:1314:C:H5'	1.47	0.79
49:BR:28:LEU:HD23	49:BR:29:LEU:HD12	1.65	0.78
47:DP:115:LEU:HA	47:DP:134:ALA:HB3	1.64	0.78
51:DT:23:ARG:HG2	51:DT:120:ARG:NH1	1.97	0.78
36:BA:1899:G:H22	36:BA:1902:C:H41	1.19	0.78
34:D8:51:ALA:HA	34:D8:54:GLU:OE1	1.81	0.78
25:CY:251:ILE:HG23	25:CY:281:PRO:HB3	1.62	0.78
36:DA:1614:A:H62	54:DW:93:ALA:HB2	1.47	0.78
1:CA:483:C:H3'	1:CA:484:G:H5''	1.63	0.78
23:CW:34:C:O2'	23:CW:35:A:C4'	2.31	0.78
55:BX:53:LYS:HD2	55:BX:55:ASN:HD21	1.47	0.78
25:CY:91:THR:O	25:CY:93:GLU:N	2.15	0.78
25:AY:281:PRO:CB	25:AY:286:ILE:HD11	2.10	0.78
42:BG:16:ARG:HE	42:BG:31:VAL:HG11	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:168:THR:CG2	2:AB:192:SER:HB3	2.09	0.78
52:DU:88:ILE:HG22	53:DV:47:VAL:O	1.83	0.78
9:AI:53:VAL:C	9:AI:55:ALA:H	1.85	0.78
36:BA:1290:C:H2'	36:BA:1291:C:H6	1.48	0.78
34:B8:4:MET:O	34:B8:62:LEU:HD12	1.83	0.78
36:DA:2852:G:H2'	36:DA:2853:C:C6	2.17	0.78
36:DA:1775:U:H2'	36:DA:1776:G:H5'	1.65	0.78
41:DF:170:LEU:HB2	41:DF:173:VAL:HB	1.64	0.78
40:DE:38:THR:HG22	40:DE:40:GLU:N	1.97	0.78
32:D6:10:LEU:H	32:D6:10:LEU:HD23	1.48	0.78
51:DT:29:ARG:HB3	51:DT:85:LYS:HA	1.66	0.78
25:AY:415:PRO:HA	25:AY:474:ALA:HB2	1.63	0.78
25:AY:539:ILE:O	25:AY:542:VAL:HG12	1.83	0.78
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.83	0.78
42:BG:42:GLY:HA2	42:BG:89:GLY:HA2	1.63	0.78
43:DH:43:VAL:HG11	43:DH:52:VAL:HG22	1.63	0.78
52:BU:47:TYR:HA	52:BU:50:ARG:NH1	1.98	0.78
25:AY:247:ARG:HD2	25:AY:278:ASP:O	1.82	0.78
25:AY:141:LYS:HE3	60:AY:702:GDP:N2	1.97	0.78
36:DA:2133:G:C2'	36:DA:2157:G:H22	1.96	0.78
50:DS:101:LEU:O	50:DS:101:LEU:HD12	1.83	0.78
36:DA:1278:A:H5''	49:DR:36:THR:HG22	1.65	0.78
47:DP:91:PHE:HD1	47:DP:91:PHE:H	1.30	0.78
57:DZ:156:LYS:O	57:DZ:158:PRO:HD3	1.81	0.78
12:AL:70:ILE:HG23	12:AL:100:ILE:HD12	1.65	0.78
10:CJ:61:GLU:OE1	14:CN:45:ARG:HD2	1.83	0.78
36:BA:1819:A:H4'	36:BA:1820:U:C5'	2.13	0.78
36:BA:978:G:H1	36:BA:985:C:N4	1.80	0.78
57:BZ:79:ARG:O	57:BZ:80:ARG:HB2	1.81	0.78
25:CY:272:LEU:O	25:CY:276:VAL:HG23	1.83	0.78
36:BA:1779:U:H5	36:BA:1784:A:N7	1.81	0.78
12:CL:20:LYS:H	12:CL:20:LYS:HD3	1.46	0.78
36:DA:654(L):G:H2'	36:DA:654(M):C:H4'	1.66	0.78
54:DW:29:LEU:CD1	54:DW:51:LEU:HD11	2.14	0.78
25:AY:82:ILE:HD12	25:AY:101:LEU:HD23	1.63	0.78
41:BF:185:ASP:HA	41:BF:188:ARG:HG2	1.64	0.78
36:BA:676:A:H8	36:BA:2069:G:H21	1.28	0.78
53:DV:28:GLU:HB2	53:DV:31:ALA:CB	2.13	0.78
10:CJ:69:ASN:O	10:CJ:70:ARG:HD2	1.84	0.78
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	1.83	0.78
1:AA:483:C:H3'	1:AA:484:G:H5''	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.84	0.78
39:BD:71:ASP:HB2	39:BD:103:ARG:HH22	1.46	0.78
39:DD:35:LYS:NZ	39:DD:36:PRO:HD3	1.97	0.78
51:DT:55:ASN:H	51:DT:59:THR:CG2	1.97	0.78
28:D2:33:MET:O	28:D2:37:PHE:HB2	1.84	0.78
43:DH:83:TYR:HB3	43:DH:134:SER:HA	1.63	0.78
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.29	0.78
4:CD:30:LYS:C	4:CD:32:ALA:H	1.87	0.78
12:CL:25:PRO:C	12:CL:27:LEU:H	1.85	0.78
2:CB:168:THR:CG2	2:CB:192:SER:HB3	2.09	0.78
20:AT:26:ASN:O	20:AT:30:LYS:HB2	1.83	0.78
36:BA:1884:A:H2'	36:BA:1885:A:C5'	2.10	0.78
49:BR:99:LYS:CD	49:BR:99:LYS:H	1.84	0.78
36:BA:2012:G:C4'	54:BW:96:ILE:HD11	2.08	0.78
27:D1:44:PRO:HG2	27:D1:46:LEU:CD2	2.12	0.78
36:DA:2334:G:H5'	50:DS:13:ARG:HD3	1.64	0.78
39:BD:61:LEU:HB3	39:BD:63:ARG:HH12	1.48	0.78
51:BT:65:LYS:HE3	51:BT:66:VAL:N	1.98	0.78
39:DD:24:ILE:HG23	39:DD:25:THR:H	1.49	0.78
34:D8:48:PHE:O	34:D8:49:VAL:HG13	1.82	0.78
36:BA:936:C:H2'	36:BA:937:U:C6	2.18	0.78
34:D8:4:MET:O	34:D8:62:LEU:HD12	1.84	0.78
36:DA:2178:C:H4'	38:DC:47:LYS:HD3	1.66	0.78
14:CN:29:ARG:HH11	14:CN:29:ARG:HG3	1.49	0.78
32:D6:30:THR:HG22	32:D6:32:ASN:ND2	1.99	0.78
36:DA:83:G:HO2'	36:DA:84:A:H8	1.30	0.78
1:AA:1490:C:H6	1:AA:1490:C:C5'	1.97	0.78
13:CM:3:ARG:NH2	13:CM:7:VAL:HG13	1.98	0.78
47:DP:47:ASP:HB3	47:DP:48:PRO:HA	1.65	0.78
37:DB:103:G:H21	57:DZ:73:GLN:NE2	1.79	0.78
36:BA:970:C:H2'	36:BA:971:C:C6	2.18	0.78
40:BE:179:GLU:O	40:BE:180:ASN:HB2	1.84	0.78
1:CA:284:G:H2'	1:CA:285:G:H8	1.48	0.78
36:DA:573:G:O2'	36:DA:574:C:H3'	1.83	0.78
1:AA:1225:A:N3	1:AA:1225:A:H2'	1.99	0.78
36:BA:1748:G:H8	36:BA:1748:G:H5'	1.47	0.78
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.84	0.78
39:BD:165:ILE:HD13	39:BD:175:LEU:HD21	1.65	0.78
36:BA:2444:G:OP2	41:BF:68:LYS:HE2	1.84	0.78
34:D8:50:LEU:HD12	34:D8:51:ALA:H	1.49	0.78
45:DN:129:PRO:O	45:DN:130:HIS:HB3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D4:14:ILE:O	30:D4:21:VAL:HG13	1.84	0.78
1:CA:625:G:H2'	1:CA:626:U:C6	2.18	0.78
1:AA:1100:C:H2'	1:AA:1101:A:H5''	1.65	0.78
36:BA:1578:U:H2'	36:BA:1579:A:H5''	1.66	0.78
1:CA:201:C:H2'	1:CA:202:U:H5''	1.66	0.78
25:AY:25:LYS:HE3	60:AY:702:GDP:O2B	1.84	0.77
36:DA:585:G:H2'	36:DA:1251:C:H42	1.47	0.77
32:B6:54:ILE:O	32:B6:54:ILE:HD12	1.83	0.77
32:B6:6:ARG:HD2	32:B6:6:ARG:H	1.49	0.77
45:BN:67:LEU:O	45:BN:68:GLU:HB2	1.85	0.77
27:B1:76:ARG:HH22	27:B1:95:LEU:CD2	1.98	0.77
1:CA:1442(A):G:H2'	51:DT:118:ARG:HH11	1.49	0.77
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.64	0.77
25:AY:505:GLY:HA3	25:AY:576:ASP:CG	2.03	0.77
45:DN:15:LEU:HD13	45:DN:16:ILE:N	1.99	0.77
1:AA:1364:U:O2	1:AA:1364:U:H2'	1.84	0.77
41:DF:174:VAL:HG21	41:DF:189:THR:HG21	1.66	0.77
1:CA:101:A:O2'	1:CA:102:G:H5'	1.83	0.77
10:AJ:61:GLU:OE1	14:AN:45:ARG:HD2	1.83	0.77
1:AA:284:G:H2'	1:AA:285:G:H8	1.48	0.77
36:BA:279:C:H2'	36:BA:280:C:H5''	1.66	0.77
39:DD:263:ARG:HB2	39:DD:263:ARG:NH1	1.98	0.77
12:AL:25:PRO:C	12:AL:27:LEU:H	1.85	0.77
31:D5:19:ARG:HA	36:DA:2046:G:H5'	1.65	0.77
36:DA:1609:A:H5'	36:DA:1610:A:OP2	1.83	0.77
22:AV:46:G:O2'	22:AV:47:U:H5'	1.83	0.77
36:DA:1718:G:H5'	36:DA:1718:G:H8	1.49	0.77
38:BC:73:VAL:HG11	38:BC:158:LYS:HA	1.64	0.77
36:BA:979:G:H3'	36:BA:980:A:C5'	2.14	0.77
36:BA:2585:U:O2'	36:BA:2586:C:H5'	1.85	0.77
52:BU:92:ARG:HD3	52:BU:94:ASN:HB3	1.65	0.77
53:BV:45:THR:O	53:BV:46:VAL:HG12	1.84	0.77
36:BA:1278:A:H5''	49:BR:36:THR:HG22	1.66	0.77
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.85	0.77
25:AY:293:THR:HB	25:AY:294:PRO:HD2	1.66	0.77
29:D3:29:ARG:NH1	29:D3:29:ARG:HB2	1.99	0.77
25:AY:513:LYS:HB2	25:AY:566:THR:HB	1.65	0.77
47:DP:55:ARG:HG2	47:DP:56:SER:N	1.99	0.77
42:DG:77:ILE:HG22	42:DG:80:PHE:N	1.99	0.77
1:AA:1128:C:H2'	1:AA:1129:C:H5''	1.67	0.77
22:CV:2:C:H2'	22:CV:3:C:H6	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1819:A:H4'	36:DA:1820:U:C5'	2.13	0.77
36:DA:979:G:H3'	36:DA:980:A:C5'	2.14	0.77
12:CL:6:THR:H	12:CL:9:GLN:NE2	1.81	0.77
42:DG:111:LEU:HA	42:DG:114:ILE:CD1	2.14	0.77
9:AI:65:VAL:HG21	9:AI:73:GLN:HB3	1.64	0.77
32:B6:10:LEU:H	32:B6:10:LEU:HD23	1.48	0.77
39:DD:166:GLN:HA	39:DD:166:GLN:NE2	1.98	0.77
47:DP:127:ALA:O	47:DP:148:LEU:HD11	1.84	0.77
25:AY:510:VAL:HG22	25:AY:534:ILE:CD1	2.14	0.77
36:DA:2631:G:N2	40:DE:61:ARG:HH12	1.82	0.77
36:DA:195:A:OP1	47:DP:46:LYS:HE2	1.85	0.77
1:CA:1489:G:C2'	1:CA:1490:C:H5''	2.14	0.77
1:CA:1226:C:N4	13:CM:104:ARG:HD2	1.99	0.77
36:BA:1959:G:H3'	36:BA:1960:A:H5''	1.66	0.77
25:CY:628:ARG:NE	25:CY:648:PRO:HG2	1.99	0.77
36:BA:581:C:H2'	36:BA:582:G:H8	1.47	0.77
45:BN:129:PRO:O	45:BN:130:HIS:HB3	1.83	0.77
2:CB:96:ARG:N	2:CB:96:ARG:HD2	1.99	0.77
39:BD:10:THR:HG23	39:BD:13:ARG:HB3	1.66	0.77
10:CJ:53:PRO:HA	14:CN:42:ILE:HD11	1.67	0.77
36:BA:1314:C:H5'	36:BA:1314:C:H6	1.46	0.77
23:AW:34:C:C2'	23:AW:35:A:O4'	2.30	0.77
36:DA:965:C:H5'	36:DA:2273:A:C1'	2.10	0.77
42:DG:138:GLN:OE1	42:DG:153:ARG:HG2	1.85	0.77
50:BS:97:ARG:NH2	50:BS:98:VAL:HA	1.99	0.77
1:CA:1004:A:N6	1:CA:1034:G:H2'	1.99	0.77
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.49	0.77
1:AA:625:G:H2'	1:AA:626:U:H6	1.49	0.77
36:DA:1790:C:H5''	36:DA:1791:A:OP1	1.84	0.77
52:BU:55:ARG:HA	52:BU:58:ARG:HG3	1.64	0.77
25:AY:276:VAL:HA	25:AY:280:LEU:HD23	1.64	0.77
1:CA:579:G:H5'	1:CA:728:A:H1'	1.64	0.77
57:DZ:40:ASP:OD1	57:DZ:42:VAL:HG12	1.83	0.77
12:CL:39:VAL:HB	12:CL:57:LYS:HB2	1.65	0.77
1:CA:697:U:H2'	1:CA:698:G:H5'	1.66	0.77
25:AY:616:TYR:HE2	25:AY:664:GLN:HE21	1.32	0.77
55:DX:53:LYS:HD2	55:DX:55:ASN:ND2	1.99	0.77
42:BG:64:THR:HG23	42:BG:66:GLN:H	1.49	0.77
47:BP:115:LEU:HA	47:BP:134:ALA:HB3	1.65	0.77
25:CY:544:LYS:O	25:CY:548:GLU:HB3	1.83	0.77
25:AY:513:LYS:CB	25:AY:566:THR:HB	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.20	0.77
36:BA:1485:G:H1'	36:BA:1505:C:H42	1.48	0.77
1:AA:973:G:H3'	1:AA:974:A:H5''	1.65	0.77
36:DA:1959:G:H3'	36:DA:1960:A:H5''	1.65	0.77
1:AA:101:A:O2'	1:AA:102:G:H5'	1.83	0.77
15:CO:83:GLU:C	15:CO:85:LEU:H	1.88	0.77
15:AO:33:THR:HG21	15:AO:85:LEU:HD21	1.67	0.77
39:BD:158:ALA:HB3	39:BD:161:THR:HG21	1.65	0.77
12:AL:47:LYS:NZ	12:AL:48:PRO:HD3	2.00	0.77
30:B4:14:ILE:O	30:B4:21:VAL:HG13	1.85	0.77
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.85	0.77
38:BC:138:LEU:HD22	38:BC:139:PRO:HD2	1.65	0.77
55:DX:12:VAL:HG12	55:DX:27:THR:O	1.84	0.77
30:B4:1:MET:SD	42:BG:98:ARG:CG	2.73	0.77
52:DU:95:LEU:HD12	53:DV:11:GLN:HE21	1.47	0.77
39:DD:166:GLN:HE21	39:DD:166:GLN:CA	1.97	0.77
9:CI:40:LEU:HD11	9:CI:70:LYS:HG2	1.67	0.77
36:DA:2796:U:H3'	36:DA:2799:C:C5'	2.14	0.77
1:AA:522:C:H41	12:AL:53:ARG:NH2	1.83	0.77
25:AY:67:ALA:CB	25:AY:358:MET:HG3	2.13	0.77
28:D2:55:ARG:O	28:D2:58:ALA:HB3	1.84	0.77
27:D1:19:GLN:O	27:D1:35:THR:HG22	1.83	0.77
1:AA:1299:A:N3	1:AA:1299:A:H2'	1.98	0.77
17:CQ:52:LYS:H	17:CQ:52:LYS:HD2	1.49	0.77
36:BA:654(L):G:H2'	36:BA:654(M):C:H4'	1.65	0.77
36:DA:654(V):A:H3'	36:DA:655:A:H2'	1.66	0.77
40:BE:59:VAL:HG11	40:BE:63:LEU:HG	1.66	0.77
22:AV:36:A:N1	24:AX:16:U:C4	2.52	0.77
25:CY:95:GLU:OE1	25:CY:124:GLN:HB3	1.84	0.77
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	1.65	0.77
29:D3:8:LEU:HD22	29:D3:31:LEU:HD23	1.67	0.77
57:BZ:153:SER:HB2	57:BZ:163:LEU:HD13	1.66	0.77
32:B6:27:LYS:O	32:B6:27:LYS:HD2	1.85	0.77
49:DR:100:LEU:HD22	49:DR:100:LEU:H	1.49	0.77
41:DF:34:TRP:HB2	47:DP:10:PRO:HB2	1.65	0.77
36:BA:979:G:H3'	36:BA:980:A:H5'	1.67	0.77
4:CD:129:ASN:N	4:CD:129:ASN:HD22	1.83	0.77
36:DA:2461:C:H5'	36:DA:2462:U:OP2	1.85	0.77
36:DA:2105:C:H42	36:DA:2184:G:H1	1.33	0.77
36:DA:2110:G:O2'	36:DA:2120:G:H5'	1.83	0.77
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1609:A:H5'	36:BA:1610:A:OP2	1.85	0.77
23:CW:34:C:C2'	23:CW:35:A:O4'	2.30	0.77
36:DA:2579:C:C4'	40:DE:134:ILE:HG12	2.13	0.77
25:AY:223:PHE:CE1	25:AY:249:GLY:HA3	2.20	0.77
51:BT:29:ARG:HB3	51:BT:85:LYS:HA	1.67	0.77
39:DD:144:ALA:HB3	39:DD:192:THR:HG23	1.65	0.77
39:DD:39:LYS:HB2	39:DD:62:TYR:HB2	1.67	0.77
36:DA:2672:G:C2'	36:DA:2673:G:H5''	2.14	0.77
25:CY:33:LEU:HD23	25:CY:360:ALA:HB2	1.67	0.77
15:AO:83:GLU:C	15:AO:85:LEU:H	1.87	0.77
36:DA:88:G:OP1	36:DA:90:U:H5	1.66	0.77
36:BA:1285:G:H2'	36:BA:1286:A:H5'	1.66	0.77
52:BU:110:VAL:HG12	52:BU:114:LYS:HD2	1.65	0.77
42:BG:77:ILE:HG22	42:BG:77:ILE:O	1.85	0.77
38:BC:31:LYS:HE3	38:BC:179:ALA:O	1.84	0.77
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.66	0.77
2:AB:96:ARG:N	2:AB:96:ARG:HD2	1.98	0.77
36:DA:1747(A):G:H2'	36:DA:1748:G:C5'	2.11	0.77
52:DU:92:ARG:O	52:DU:94:ASN:N	2.18	0.77
39:BD:39:LYS:HB2	39:BD:62:TYR:HB2	1.67	0.77
47:DP:7:ARG:HA	47:DP:7:ARG:CZ	2.15	0.77
34:B8:48:PHE:O	34:B8:49:VAL:HG13	1.85	0.77
39:BD:270:ILE:HD12	39:BD:270:ILE:H	1.49	0.77
41:BF:20:LEU:HD23	41:BF:21:ALA:N	2.00	0.77
7:CG:45:ASP:O	7:CG:49:ILE:HG12	1.83	0.77
3:AC:173:VAL:HG12	3:AC:175:LEU:HD12	1.67	0.77
19:CS:21:GLU:HG3	19:CS:22:LEU:HD23	1.66	0.77
3:AC:134:ILE:HD11	3:AC:153:VAL:HG23	1.67	0.77
36:BA:1231:G:H2'	36:BA:1232:G:H8	1.50	0.77
36:BA:2175:C:H4'	38:BC:219:MET:O	1.85	0.77
25:CY:513:LYS:CB	25:CY:566:THR:HB	2.15	0.77
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.66	0.77
36:BA:2105:C:H42	36:BA:2184:G:H1	1.32	0.77
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.48	0.77
12:AL:57:LYS:HG3	12:AL:67:THR:HG22	1.66	0.77
36:BA:654(V):A:H3'	36:BA:655:A:H2'	1.65	0.77
36:DA:2313:C:H5'	36:DA:2313:C:H6	1.50	0.76
25:CY:124:GLN:HA	25:CY:127:LYS:HD2	1.67	0.76
36:BA:2796:U:H3'	36:BA:2799:C:C5'	2.14	0.76
51:DT:85:LYS:HZ2	51:DT:85:LYS:HB3	1.49	0.76
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.65	0.76
54:DW:5:ALA:HB2	54:DW:54:ALA:HB2	1.65	0.76
39:DD:158:ALA:HB3	39:DD:161:THR:HG21	1.66	0.76
9:AI:95:LYS:HD3	9:AI:96:LEU:N	2.00	0.76
25:CY:9:LEU:O	25:CY:9:LEU:HD23	1.83	0.76
19:AS:21:GLU:HG3	19:AS:22:LEU:HD23	1.66	0.76
26:D0:74:ARG:HG2	37:DB:13:A:OP2	1.85	0.76
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.67	0.76
1:CA:1225:A:H2'	1:CA:1225:A:N3	1.98	0.76
54:BW:29:LEU:CD1	54:BW:51:LEU:HD11	2.16	0.76
24:CX:12:A:H4'	24:CX:13:A:OP2	1.85	0.76
1:AA:926:G:N2	24:AX:16:U:OP2	2.19	0.76
24:AX:12:A:H4'	24:AX:13:A:OP2	1.85	0.76
36:DA:83:G:O2'	36:DA:84:A:H8	1.68	0.76
47:BP:47:ASP:HB3	47:BP:48:PRO:HA	1.66	0.76
28:B2:69:ARG:HG3	28:B2:70:GLN:N	2.00	0.76
57:DZ:166:SER:HB2	57:DZ:167:PRO:C	2.04	0.76
41:BF:174:VAL:HG21	41:BF:189:THR:HG21	1.68	0.76
49:BR:10:LEU:HD22	49:BR:17:ARG:HD3	1.67	0.76
2:AB:20:GLU:O	2:AB:39:ILE:HG23	1.85	0.76
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.66	0.76
41:DF:20:LEU:HD23	41:DF:21:ALA:N	1.99	0.76
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.67	0.76
36:DA:1717:G:H2'	36:DA:1718:G:H5''	1.68	0.76
36:DA:979:G:H3'	36:DA:980:A:H5'	1.67	0.76
36:DA:1514:U:H2'	36:DA:1515:G:H8	1.51	0.76
36:DA:2389:G:H5''	36:DA:2390:U:H5'	1.67	0.76
42:DG:46:ALA:HB2	42:DG:88:ILE:CB	2.09	0.76
42:DG:64:THR:HG23	42:DG:66:GLN:H	1.49	0.76
42:DG:73:ALA:O	42:DG:85:GLY:HA2	1.85	0.76
52:BU:88:ILE:HG22	53:BV:47:VAL:O	1.85	0.76
56:BY:44:ILE:HG22	56:BY:45:VAL:N	2.00	0.76
39:BD:35:LYS:HG3	39:BD:63:ARG:HG3	1.66	0.76
47:BP:62:LEU:HD23	47:BP:62:LEU:N	2.00	0.76
1:AA:1004:A:N6	1:AA:1034:G:H2'	2.00	0.76
45:BN:15:LEU:HD13	45:BN:16:ILE:N	1.99	0.76
2:CB:204:ASN:C	2:CB:204:ASN:HD22	1.88	0.76
36:DA:1516:C:H2'	36:DA:1517:G:H5''	1.67	0.76
23:AW:6:G:H2'	23:AW:7:G:O4'	1.86	0.76
43:BH:44:VAL:O	43:BH:50:VAL:HG13	1.84	0.76
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.26	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:110:VAL:HG12	52:DU:114:LYS:HD2	1.66	0.76
47:BP:77:ARG:HB2	47:BP:78:PRO:HD2	1.67	0.76
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.49	0.76
22:AV:64:A:H2'	22:AV:65:G:H8	1.51	0.76
12:AL:18:VAL:CG2	12:AL:19:ARG:H	1.96	0.76
53:BV:40:LEU:HA	53:BV:45:THR:HB	1.67	0.76
51:DT:115:ARG:HB3	51:DT:115:ARG:NH1	2.00	0.76
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	2.15	0.76
36:BA:585:G:H2'	36:BA:1251:C:H42	1.49	0.76
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.33	0.76
36:DA:284:U:H2'	36:DA:285:C:C6	2.20	0.76
43:BH:86:GLU:HA	43:BH:132:ARG:HA	1.68	0.76
41:BF:53:THR:HG23	41:BF:55:GLY:H	1.50	0.76
19:AS:41:VAL:HG21	19:AS:44:MET:HB2	1.67	0.76
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.51	0.76
36:DA:2175:C:H4'	38:DC:219:MET:O	1.84	0.76
38:BC:101:ILE:HG23	38:BC:128:LEU:HD23	1.67	0.76
36:DA:1780:A:H5'	36:DA:1781:C:OP2	1.85	0.76
36:DA:1748:G:H8	36:DA:1748:G:H5'	1.49	0.76
36:DA:1053:C:C2'	36:DA:1054:A:H5''	2.15	0.76
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.85	0.76
30:B4:7:PRO:O	30:B4:8:LYS:HB3	1.84	0.76
49:BR:100:LEU:HD22	49:BR:100:LEU:H	1.50	0.76
36:DA:272(J):C:H42	36:DA:363:G:H22	1.33	0.76
36:BA:2579:C:C4'	40:BE:134:ILE:HG12	2.15	0.76
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.68	0.76
23:AW:22:G:C2'	23:AW:23:C:H5''	2.15	0.76
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.84	0.76
5:AE:79:GLU:HB3	5:AE:93:PRO:HD2	1.68	0.76
36:BA:1516:C:H2'	36:BA:1517:G:H5''	1.66	0.76
39:DD:44:ASN:CB	39:DD:49:ILE:HA	2.15	0.76
42:BG:51:ARG:HA	42:BG:51:ARG:HE	1.51	0.76
36:BA:1876:A:H2'	36:BA:1877:A:H8	1.51	0.76
36:DA:2444:G:OP2	41:DF:68:LYS:HE2	1.86	0.76
1:CA:1047:G:H5''	14:CN:4:LYS:HD3	1.68	0.76
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.51	0.76
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.66	0.76
43:DH:44:VAL:O	43:DH:50:VAL:HG13	1.86	0.76
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.65	0.76
36:BA:2668:G:O2'	36:BA:2669:G:H5'	1.86	0.76
1:CA:939:G:H5''	7:CG:102:ARG:NH2	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B4:12:ALA:CB	30:B4:29:PRO:HA	2.16	0.76
39:DD:10:THR:HG23	39:DD:13:ARG:HB3	1.68	0.76
36:BA:88:G:OP1	36:BA:90:U:H5	1.67	0.76
36:BA:2497:A:OP2	36:BA:2497:A:H8	1.68	0.76
49:DR:84:ALA:HB3	49:DR:85:PRO:HD3	1.67	0.76
29:D3:5:LYS:HE3	29:D3:34:GLU:OE1	1.85	0.76
57:DZ:20:ARG:HH11	57:DZ:20:ARG:CB	1.96	0.76
31:B5:55:ARG:C	31:B5:55:ARG:HD3	2.06	0.76
51:BT:89:VAL:CG1	51:BT:91:ARG:HG3	2.16	0.76
36:DA:970:C:H2'	36:DA:971:C:C6	2.21	0.76
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.66	0.76
4:AD:30:LYS:C	4:AD:32:ALA:H	1.86	0.76
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.34	0.76
36:BA:1718:G:H8	36:BA:1718:G:H5'	1.51	0.76
36:DA:2681:C:H5	36:DA:2725:A:H62	1.34	0.76
57:DZ:37:VAL:O	57:DZ:38:TYR:HB3	1.83	0.76
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.51	0.76
12:AL:6:THR:H	12:AL:9:GLN:NE2	1.83	0.76
36:DA:1578:U:H2'	36:DA:1579:A:H5''	1.66	0.76
37:BB:3:C:H42	37:BB:118:G:H1	1.34	0.76
59:CY:701:FUA:C12	59:CY:701:FUA:H231	2.15	0.76
25:AY:84:THR:N	25:AY:85:PRO:HD2	1.94	0.76
32:D6:54:ILE:O	32:D6:54:ILE:HD12	1.85	0.76
56:DY:46:LYS:N	56:DY:62:GLU:HB2	2.01	0.76
47:DP:97:PRO:O	47:DP:98:GLU:HB3	1.84	0.76
51:DT:65:LYS:HE3	51:DT:66:VAL:N	2.00	0.76
47:BP:7:ARG:HA	47:BP:7:ARG:CZ	2.16	0.76
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.86	0.76
9:CI:53:VAL:C	9:CI:55:ALA:H	1.88	0.76
48:BQ:59:ARG:HA	57:BZ:180:VAL:HG23	1.68	0.76
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.51	0.76
45:DN:113:GLY:HA2	45:DN:116:LEU:HD12	1.68	0.76
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.65	0.76
46:BO:98:VAL:HG22	46:BO:117:LEU:HB3	1.67	0.76
36:BA:965:C:H5'	36:BA:2273:A:C1'	2.10	0.76
25:CY:21:ILE:O	25:CY:22:ASP:HB2	1.83	0.76
36:DA:1047:G:N2	36:DA:1110:G:H1'	2.01	0.76
36:BA:1689:A:H62	36:BA:1698:A:H2	1.31	0.76
39:BD:27:THR:HG21	39:BD:83:GLU:HG2	1.67	0.76
36:BA:1541:G:H4'	36:BA:1542:A:O5'	1.86	0.76
40:DE:179:GLU:O	40:DE:180:ASN:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:112:PRO:O	42:BG:113:ARG:HA	1.84	0.76
9:AI:104:ARG:HG2	9:AI:104:ARG:O	1.85	0.76
4:CD:96:LEU:H	4:CD:96:LEU:HD22	1.49	0.76
42:DG:60:LEU:O	42:DG:63:ILE:HG13	1.84	0.76
55:BX:53:LYS:HD2	55:BX:55:ASN:ND2	2.01	0.76
36:DA:1845:G:H2'	36:DA:1846:G:C5'	2.16	0.76
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	1.86	0.76
1:AA:1002:G:H22	1:AA:1039:C:H2'	1.48	0.76
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.50	0.76
36:BA:1840:G:H1	36:BA:1902:C:H42	1.34	0.76
40:DE:60:ASN:OD1	40:DE:62:PRO:HD2	1.85	0.76
36:BA:1697:G:H3'	36:BA:1698:A:C5'	2.16	0.76
20:CT:26:ASN:O	20:CT:30:LYS:HB2	1.85	0.76
53:DV:58:VAL:O	53:DV:97:LYS:HB2	1.86	0.76
1:CA:720:C:H3'	1:CA:721:G:H5''	1.68	0.76
39:BD:91:ARG:HH11	39:BD:91:ARG:HG2	1.50	0.76
36:DA:358:U:H2'	36:DA:359:A:H8	1.50	0.76
1:CA:1100:C:H2'	1:CA:1101:A:H5''	1.68	0.76
1:CA:759:A:H2'	1:CA:760:G:H5'	1.68	0.76
37:DB:3:C:H42	37:DB:118:G:H1	1.33	0.76
49:DR:117:VAL:O	49:DR:118:GLU:HB2	1.85	0.76
25:CY:580:MET:HE2	25:CY:581:ALA:N	1.99	0.75
36:DA:986:C:O2'	36:DA:987:G:H5'	1.86	0.75
2:AB:165:VAL:HG23	2:AB:166:ASP:N	1.98	0.75
32:B6:30:THR:HG22	32:B6:32:ASN:ND2	2.01	0.75
1:AA:1490:C:C6	1:AA:1490:C:H5'	2.20	0.75
47:DP:126:VAL:HA	47:DP:145:PRO:CB	2.16	0.75
25:CY:606:MET:HE2	25:CY:671:MET:CG	2.15	0.75
25:AY:573:HIS:CD2	25:AY:576:ASP:H	2.02	0.75
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.85	0.75
50:BS:85:VAL:HG23	50:BS:106:ARG:HG3	1.68	0.75
36:BA:2889:C:H2'	36:BA:2891:G:O4'	1.87	0.75
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.85	0.75
36:DA:2777:G:H5''	36:DA:2778:A:H5''	1.68	0.75
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.84	0.75
36:DA:1876:A:H2'	36:DA:1877:A:H8	1.51	0.75
19:CS:9:VAL:O	19:CS:11:VAL:N	2.19	0.75
36:DA:586:A:H5'	41:DF:89:VAL:HG21	1.68	0.75
3:AC:157:ILE:HD12	3:AC:164:ARG:HB2	1.68	0.75
36:DA:978:G:H1	36:DA:985:C:H42	1.31	0.75
2:CB:165:VAL:HG23	2:CB:166:ASP:N	1.98	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:22:THR:HA	45:DN:61:ARG:O	1.87	0.75
39:BD:35:LYS:HZ3	39:BD:36:PRO:CD	1.99	0.75
25:AY:466:LEU:HA	25:AY:470:PHE:CD2	2.21	0.75
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.20	0.75
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.20	0.75
25:AY:500:GLN:HG2	25:AY:576:ASP:OD2	1.87	0.75
36:DA:1485:G:H1'	36:DA:1505:C:H42	1.49	0.75
51:DT:60:THR:HG22	51:DT:77:PRO:HA	1.67	0.75
42:BG:8:LYS:O	42:BG:11:TYR:HB3	1.85	0.75
1:AA:697:U:H2'	1:AA:698:G:H5'	1.66	0.75
36:DA:1220:A:H3'	36:DA:1221:C:H5'	1.67	0.75
43:BH:98:LEU:HB2	43:BH:125:VAL:CG2	2.15	0.75
49:BR:2:ARG:HD3	49:BR:5:LYS:HE2	1.66	0.75
25:CY:162:VAL:HG21	25:CY:255:ILE:HD11	1.68	0.75
39:BD:35:LYS:HZ3	39:BD:35:LYS:HB3	1.51	0.75
27:B1:86:SER:O	27:B1:90:ILE:HG12	1.87	0.75
36:DA:1697:G:H3'	36:DA:1698:A:C5'	2.16	0.75
9:CI:104:ARG:O	9:CI:104:ARG:HG2	1.86	0.75
39:DD:43:ARG:HB3	39:DD:54:ARG:HB2	1.69	0.75
23:CW:49:G:H2'	23:CW:50:U:H5''	1.68	0.75
13:CM:49:THR:O	13:CM:53:VAL:HG23	1.85	0.75
39:DD:129:ASN:O	39:DD:193:VAL:HG12	1.85	0.75
25:CY:187:THR:HG22	25:CY:197:ARG:O	1.87	0.75
36:BA:1998:G:O2'	36:BA:1999:C:H5'	1.86	0.75
15:AO:11:VAL:O	15:AO:14:GLU:HB3	1.86	0.75
4:CD:18:LYS:HE2	4:CD:20:TYR:HE1	1.52	0.75
36:BA:2147:G:H2'	36:BA:2148:G:O4'	1.87	0.75
36:BA:1582:C:H2'	36:BA:1583:A:H8	1.51	0.75
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.67	0.75
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.85	0.75
1:CA:1299:A:N3	1:CA:1299:A:H2'	1.99	0.75
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.84	0.75
55:BX:12:VAL:HG12	55:BX:27:THR:O	1.84	0.75
32:D6:27:LYS:HD2	32:D6:27:LYS:O	1.86	0.75
36:BA:83:G:O2'	36:BA:84:A:H8	1.69	0.75
45:DN:58:ASP:C	45:DN:60:ILE:H	1.89	0.75
51:DT:102:ILE:O	51:DT:106:SER:HB3	1.87	0.75
36:DA:1504:C:C2'	36:DA:1505:C:H5''	2.17	0.75
28:D2:69:ARG:HH22	36:DA:111:A:C5'	1.99	0.75
40:BE:34:VAL:O	40:BE:35:GLN:HB2	1.86	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.85	0.75
12:CL:47:LYS:HZ2	12:CL:47:LYS:HB3	1.51	0.75
43:DH:86:GLU:HA	43:DH:132:ARG:HA	1.68	0.75
12:AL:39:VAL:HB	12:AL:57:LYS:HB2	1.67	0.75
10:AJ:53:PRO:HA	14:AN:42:ILE:HD11	1.68	0.75
36:BA:1644:C:O2	36:BA:1644:C:H2'	1.85	0.75
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.67	0.75
36:BA:1220:A:H3'	36:BA:1221:C:H5'	1.67	0.75
36:DA:1943:U:H2'	36:DA:1943:U:O2	1.85	0.75
30:D4:1:MET:HG2	42:DG:98:ARG:NE	2.01	0.75
50:DS:97:ARG:NH2	50:DS:98:VAL:HA	2.02	0.75
55:DX:35:THR:O	55:DX:39:ILE:HG12	1.86	0.75
31:D5:55:ARG:HD3	31:D5:55:ARG:C	2.06	0.75
56:BY:46:LYS:N	56:BY:62:GLU:HB2	2.01	0.75
39:BD:35:LYS:HZ3	39:BD:36:PRO:HD3	1.49	0.75
3:CC:35:GLU:HG3	3:CC:95:THR:HG21	1.68	0.75
50:BS:13:ARG:HG3	50:BS:14:VAL:N	2.02	0.75
36:DA:1541:G:H4'	36:DA:1542:A:O5'	1.87	0.75
36:BA:284:U:H2'	36:BA:285:C:H6	1.51	0.75
36:BA:1047:G:N2	36:BA:1110:G:H1'	2.02	0.75
36:BA:358:U:H2'	36:BA:359:A:H8	1.50	0.75
42:BG:77:ILE:CG2	42:BG:80:PHE:H	2.00	0.75
36:DA:279:C:H2'	36:DA:280:C:H5''	1.67	0.75
4:AD:18:LYS:HE2	4:AD:20:TYR:HE1	1.50	0.75
36:DA:882:G:H2'	36:DA:883:G:C8	2.21	0.75
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.01	0.75
25:CY:592:GLU:HA	25:CY:595:GLN:HB2	1.66	0.75
38:BC:184:GLU:HB2	38:BC:185:LYS:NZ	2.01	0.75
25:CY:377:VAL:HG21	25:CY:380:LEU:HD22	1.67	0.75
8:AH:50:ARG:HH11	8:AH:50:ARG:HB3	1.50	0.75
36:BA:2681:C:H5	36:BA:2725:A:H62	1.33	0.75
38:DC:138:LEU:HD22	38:DC:139:PRO:HD2	1.67	0.75
42:DG:85:GLY:C	42:DG:87:PRO:HD3	2.07	0.75
25:CY:290:LYS:HB3	25:CY:298:VAL:HG23	1.68	0.75
47:BP:127:ALA:O	47:BP:148:LEU:HD11	1.86	0.75
39:DD:35:LYS:HZ3	39:DD:36:PRO:HD3	1.50	0.75
28:D2:32:LEU:HA	28:D2:53:LEU:HD13	1.68	0.75
36:BA:2468:G:HO2'	36:BA:2476:A:H8	1.34	0.75
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.69	0.75
36:DA:284:U:H2'	36:DA:285:C:H6	1.50	0.75
1:AA:720:C:H3'	1:AA:721:G:H5''	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:83:MET:HG3	2:CB:234:PRO:HG3	1.68	0.75
36:DA:11:G:H2'	36:DA:12:U:C6	2.22	0.75
49:BR:84:ALA:HB3	49:BR:85:PRO:HD3	1.69	0.75
36:DA:871:U:OP1	48:DQ:5:ARG:HG3	1.87	0.75
48:BQ:29:PHE:HB2	48:BQ:105:GLU:OE2	1.86	0.75
36:DA:958:U:OP2	48:DQ:14:ARG:NH1	2.18	0.75
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.13	0.75
25:CY:265:LYS:O	25:CY:267:LYS:HG3	1.87	0.75
50:BS:36:TYR:HD1	50:BS:36:TYR:N	1.85	0.75
29:B3:29:ARG:NH1	29:B3:29:ARG:HB2	1.97	0.75
47:DP:127:ALA:HB3	47:DP:130:PHE:CE1	2.22	0.75
47:DP:84:ASN:HA	47:DP:115:LEU:O	1.87	0.75
51:DT:89:VAL:CG1	51:DT:91:ARG:HG3	2.16	0.75
54:BW:88:ARG:HB3	54:BW:92:ARG:HB3	1.67	0.75
51:BT:38:ASN:C	51:BT:38:ASN:HD22	1.90	0.75
39:BD:27:THR:CG2	39:BD:83:GLU:HG2	2.16	0.75
16:AP:25:ARG:HG3	16:AP:25:ARG:HH11	1.51	0.75
36:BA:1819:A:H4'	36:BA:1820:U:H5'	1.67	0.75
27:D1:24:ALA:HB2	27:D1:32:LYS:HE3	1.67	0.75
36:DA:2852:G:H2'	36:DA:2853:C:H6	1.51	0.75
36:BA:11:G:H2'	36:BA:12:U:C6	2.22	0.75
54:DW:59:VAL:HA	54:DW:63:ASP:HA	1.68	0.75
48:DQ:29:PHE:HB2	48:DQ:105:GLU:OE2	1.86	0.75
30:D4:7:PRO:O	30:D4:8:LYS:HB3	1.84	0.75
42:DG:67:LYS:HD3	42:DG:68:PRO:N	2.02	0.75
25:CY:409:ILE:HD11	25:CY:656:ALA:HB3	1.68	0.75
25:AY:121:VAL:HG23	25:AY:122:TRP:H	1.52	0.75
36:BA:2133:G:C2'	36:BA:2157:G:H22	1.96	0.75
41:BF:7:TYR:HD2	41:BF:16:GLY:HA3	1.52	0.75
54:DW:88:ARG:HB3	54:DW:92:ARG:HB3	1.68	0.75
25:AY:180:VAL:HG23	25:AY:216:LEU:HD12	1.68	0.75
47:DP:7:ARG:HA	47:DP:7:ARG:NH1	2.01	0.75
28:D2:38:GLN:O	28:D2:41:ILE:HG12	1.86	0.75
27:D1:86:SER:HB2	27:D1:90:ILE:HG12	1.67	0.75
40:DE:34:VAL:O	40:DE:35:GLN:HB2	1.85	0.75
36:BA:1348:G:C2'	36:BA:1349:A:H5''	2.16	0.75
41:DF:53:THR:HG23	41:DF:55:GLY:H	1.52	0.75
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.87	0.75
19:CS:41:VAL:HG21	19:CS:44:MET:HB2	1.68	0.75
1:CA:376:G:H2'	1:CA:377:G:H8	1.51	0.75
29:B3:5:LYS:HE3	29:B3:34:GLU:OE1	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:59:VAL:HG12	29:B3:60:GLU:N	2.02	0.75
57:DZ:18:LEU:N	57:DZ:18:LEU:HD12	2.02	0.75
36:DA:962:G:O2'	36:DA:963:U:H5'	1.86	0.75
36:DA:2585:U:O2'	36:DA:2586:C:H5'	1.86	0.75
32:D6:6:ARG:HD2	32:D6:6:ARG:H	1.48	0.75
34:B8:51:ALA:HA	34:B8:54:GLU:OE1	1.86	0.75
36:BA:2524:G:H5'	36:BA:2524:G:H8	1.50	0.75
36:DA:2296:U:H4'	36:DA:2297:C:OP1	1.86	0.75
3:AC:35:GLU:HG3	3:AC:95:THR:HG21	1.69	0.75
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.51	0.75
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.27	0.75
36:BA:1717:G:H2'	36:BA:1718:G:H5''	1.68	0.75
4:CD:5:ILE:HA	4:CD:115:ARG:HH12	1.49	0.75
36:DA:144:C:H2'	36:DA:145:G:H8	1.51	0.75
36:DA:2023:G:H5'	36:DA:2617:C:H4'	1.69	0.75
26:B0:20:ARG:HD2	26:B0:20:ARG:H	1.52	0.75
36:DA:1582:C:H2'	36:DA:1583:A:H8	1.51	0.75
1:AA:939:G:H5''	7:AG:102:ARG:NH2	2.02	0.75
25:CY:499:ARG:HB2	25:CY:506:GLN:CB	2.11	0.74
36:BA:612:C:H2'	36:BA:613:G:C5'	2.10	0.74
25:CY:17:ILE:H	25:CY:17:ILE:HD12	1.50	0.74
59:CY:701:FUA:C5	59:CY:701:FUA:H202	2.14	0.74
36:DA:1885:A:H5'	36:DA:1885:A:H8	1.52	0.74
53:DV:40:LEU:HA	53:DV:45:THR:HB	1.69	0.74
47:BP:97:PRO:O	47:BP:98:GLU:HB3	1.86	0.74
36:DA:154(A):C:H3'	36:DA:155:U:C5'	2.17	0.74
47:DP:62:LEU:N	47:DP:62:LEU:HD23	2.00	0.74
23:AW:2:G:H1	23:AW:71:C:N4	1.84	0.74
51:DT:75:ILE:HD12	51:DT:75:ILE:N	2.02	0.74
42:BG:116:ASP:O	42:BG:117:PHE:HB3	1.87	0.74
39:BD:106:ILE:HD11	39:BD:196:VAL:HG13	1.69	0.74
25:AY:580:MET:O	25:AY:580:MET:HE2	1.87	0.74
54:DW:68:ARG:HA	54:DW:110:LYS:HG2	1.69	0.74
48:DQ:54:MET:HG2	48:DQ:64:ILE:HD13	1.69	0.74
36:DA:903:C:H2'	36:DA:904:C:H5'	1.69	0.74
36:BA:144:C:H2'	36:BA:145:G:H8	1.50	0.74
29:B3:36:VAL:O	29:B3:37:LEU:HD23	1.87	0.74
29:D3:28:LEU:HA	29:D3:33:GLN:OE1	1.87	0.74
36:BA:2131:G:H8	36:BA:2158:A:H62	1.34	0.74
37:BB:48:A:H4'	50:BS:95:HIS:CD2	2.22	0.74
29:B3:8:LEU:HD22	29:B3:31:LEU:HD23	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:36:TYR:HD1	50:DS:36:TYR:N	1.85	0.74
32:D6:28:ARG:CB	32:D6:28:ARG:HH11	2.01	0.74
50:BS:106:ARG:HB3	50:BS:106:ARG:HH11	1.51	0.74
1:AA:1442(B):A:N7	51:BT:118:ARG:HG2	2.02	0.74
25:CY:272:LEU:HD12	25:CY:275:ALA:HB3	1.69	0.74
12:CL:89:ARG:HD3	12:CL:91:LYS:NZ	2.02	0.74
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.68	0.74
1:CA:773:G:O2'	1:CA:774:G:H5'	1.88	0.74
36:BA:1328:G:O5'	36:BA:1328:G:H8	1.70	0.74
8:CH:50:ARG:HB3	8:CH:50:ARG:HH11	1.52	0.74
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	1.87	0.74
59:AY:701:FUA:C5	59:AY:701:FUA:H202	2.15	0.74
25:CY:513:LYS:HB3	25:CY:566:THR:HB	1.67	0.74
43:DH:98:LEU:HB2	43:DH:125:VAL:CG2	2.16	0.74
39:DD:35:LYS:HG3	39:DD:63:ARG:HG3	1.67	0.74
41:BF:89:VAL:HG12	41:BF:90:PHE:H	1.50	0.74
1:CA:707:C:H4'	11:CK:20:TYR:CD2	2.22	0.74
19:AS:9:VAL:O	19:AS:11:VAL:N	2.19	0.74
1:CA:694:A:O2'	23:CW:38:A:O2'	2.05	0.74
41:DF:7:TYR:HD2	41:DF:16:GLY:HA3	1.51	0.74
25:AY:554:PRO:HG3	25:AY:594:VAL:HG12	1.69	0.74
45:BN:22:THR:HA	45:BN:61:ARG:O	1.86	0.74
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	1.99	0.74
49:DR:2:ARG:HD3	49:DR:5:LYS:HE2	1.67	0.74
39:DD:165:ILE:HD13	39:DD:175:LEU:HD21	1.68	0.74
36:DA:1348:G:C2'	36:DA:1349:A:H5''	2.16	0.74
36:BA:284:U:H2'	36:BA:285:C:C6	2.21	0.74
9:AI:47:LEU:N	9:AI:47:LEU:HD12	2.01	0.74
42:DG:51:ARG:CZ	42:DG:53:LEU:HD21	2.18	0.74
1:AA:1348:U:H4'	9:AI:120:ARG:HG3	1.68	0.74
45:BN:58:ASP:C	45:BN:60:ILE:H	1.90	0.74
36:DA:1840:G:H1	36:DA:1902:C:H42	1.35	0.74
45:DN:57:ALA:N	45:DN:124:ALA:HA	2.00	0.74
50:DS:106:ARG:HB3	50:DS:106:ARG:NH1	2.03	0.74
25:AY:534:ILE:HG13	25:AY:570:GLY:O	1.87	0.74
1:CA:1364:U:O2	1:CA:1364:U:H2'	1.87	0.74
1:AA:1226:C:H5'	13:AM:96:LEU:HD13	1.68	0.74
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.87	0.74
41:DF:192:LEU:HD21	41:DF:194:MET:HG3	1.69	0.74
50:DS:83:LYS:HG2	50:DS:105:ALA:HB3	1.68	0.74
36:DA:1409:C:H2'	36:DA:1410:G:C8	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2178:C:H4'	38:BC:47:LYS:HD3	1.69	0.74
49:DR:87:TYR:O	49:DR:89:ASP:N	2.20	0.74
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.68	0.74
47:BP:30:THR:CG2	47:BP:31:ALA:H	1.96	0.74
25:CY:227:ILE:HD12	25:CY:245:ALA:HB2	1.69	0.74
56:DY:44:ILE:HG22	56:DY:45:VAL:N	2.01	0.74
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.51	0.74
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.68	0.74
47:BP:58:THR:O	47:BP:61:ARG:NE	2.21	0.74
36:BA:2631:G:N2	40:BE:61:ARG:HH12	1.85	0.74
40:BE:78:LEU:O	40:BE:79:ARG:HD2	1.88	0.74
36:DA:288:C:H2'	36:DA:289:A:C8	2.23	0.74
52:DU:47:TYR:HA	52:DU:50:ARG:HH11	1.52	0.74
36:BA:907:U:OP1	48:BQ:24:GLY:N	2.20	0.74
25:CY:272:LEU:HA	25:CY:275:ALA:HB3	1.68	0.74
57:BZ:103:ARG:HB2	57:BZ:103:ARG:HH11	1.51	0.74
49:BR:87:TYR:O	49:BR:89:ASP:N	2.19	0.74
28:B2:49:LYS:O	28:B2:53:LEU:HB2	1.87	0.74
50:BS:49:VAL:HG12	50:BS:50:SER:H	1.51	0.74
26:D0:20:ARG:H	26:D0:20:ARG:HD2	1.52	0.74
36:DA:2131:G:H8	36:DA:2158:A:H62	1.36	0.74
32:D6:35:GLU:CB	32:D6:51:GLU:HB2	2.17	0.74
45:BN:57:ALA:N	45:BN:124:ALA:HA	2.02	0.74
49:DR:28:LEU:HD23	49:DR:29:LEU:HD12	1.67	0.74
32:B6:48:VAL:HG23	32:B6:49:HIS:H	1.53	0.74
36:DA:480:A:OP2	56:DY:46:LYS:HE3	1.88	0.74
25:AY:165:GLN:HE21	25:AY:177:ILE:HG21	1.53	0.74
25:AY:178:ILE:HG13	25:AY:185:ALA:HA	1.69	0.74
40:DE:78:LEU:O	40:DE:79:ARG:HD2	1.88	0.74
36:BA:2712:U:HO2'	36:BA:2712(A):A:H8	0.80	0.74
39:BD:43:ARG:HB3	39:BD:54:ARG:HB2	1.69	0.74
39:BD:48:ARG:HH11	39:BD:48:ARG:HG3	1.50	0.74
36:BA:1053:C:C2'	36:BA:1054:A:H5''	2.17	0.74
37:DB:91:C:OP1	48:DQ:16:ARG:HG3	1.87	0.74
26:B0:74:ARG:HG2	37:BB:13:A:OP2	1.88	0.74
56:DY:2:ARG:HD3	56:DY:3:VAL:HG23	1.68	0.74
35:B9:34:GLN:O	35:B9:35:ARG:HB2	1.87	0.74
31:B5:44:THR:HG21	49:BR:101:ALA:HB2	1.70	0.74
40:BE:11:MET:HB3	40:BE:24:THR:HA	1.70	0.74
50:DS:40:ILE:HG22	50:DS:41:ASP:H	1.52	0.74
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:23:ILE:HB	38:BC:229:SER:OXT	1.87	0.74
25:CY:580:MET:HE1	36:DA:1913:A:N6	2.02	0.74
36:DA:1053:C:C3'	36:DA:1054:A:H5''	2.18	0.74
32:D6:5:VAL:CG2	36:DA:2283:C:H5'	2.17	0.74
47:BP:126:VAL:HA	47:BP:145:PRO:CB	2.18	0.74
47:BP:7:ARG:HA	47:BP:7:ARG:NH1	2.02	0.74
36:DA:2889:C:H2'	36:DA:2891:G:O4'	1.87	0.74
36:DA:2787:C:H1'	40:DE:61:ARG:HD3	1.70	0.74
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.53	0.74
5:CE:79:GLU:HB3	5:CE:93:PRO:HD2	1.68	0.74
1:AA:1129:C:H6	1:AA:1129:C:H5'	1.52	0.74
9:AI:40:LEU:HD11	9:AI:70:LYS:HG2	1.69	0.74
36:BA:840:C:H2'	36:BA:841:A:H5''	1.70	0.74
50:BS:34:HIS:HB3	50:BS:53:SER:HB3	1.69	0.74
36:BA:419:C:H2'	36:BA:420:C:H6	1.53	0.74
36:DA:613:G:H8	36:DA:613:G:H5'	1.52	0.74
41:BF:24:LEU:HB3	41:BF:25:PRO:CD	2.18	0.74
57:DZ:29:TYR:HB3	57:DZ:34:ASN:CB	2.17	0.74
45:DN:67:LEU:O	45:DN:68:GLU:HB2	1.86	0.74
36:BA:962:G:O2'	36:BA:963:U:H5'	1.88	0.74
25:CY:533:VAL:HG12	25:CY:571:SER:HA	1.69	0.74
47:DP:50:ARG:O	47:DP:57:THR:HG22	1.88	0.74
28:D2:69:ARG:HH22	36:DA:111:A:H4'	1.53	0.74
39:DD:48:ARG:HG3	39:DD:48:ARG:HH11	1.50	0.74
25:CY:28:THR:O	25:CY:32:ILE:HG13	1.87	0.74
22:AV:56:C:O2	42:BG:78:SER:HB3	1.86	0.74
41:DF:89:VAL:HG12	41:DF:90:PHE:H	1.51	0.74
11:CK:91:ARG:NH1	18:CR:88:LYS:HE3	2.03	0.74
51:DT:38:ASN:C	51:DT:38:ASN:HD22	1.89	0.74
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.02	0.74
36:DA:2602:A:H4'	36:DA:2603:G:C5'	2.18	0.74
41:BF:161:GLU:O	41:BF:165:ARG:HG3	1.88	0.74
41:DF:24:LEU:HB3	41:DF:25:PRO:CD	2.17	0.74
29:B3:56:VAL:HG12	29:B3:57:GLU:N	2.03	0.74
28:D2:9:GLN:HA	28:D2:12:GLU:OE1	1.87	0.74
25:AY:609:GLU:HA	25:AY:643:ILE:O	1.87	0.74
51:BT:115:ARG:HB3	51:BT:115:ARG:NH1	2.02	0.74
25:CY:131:PRO:HG2	25:CY:281:PRO:HG3	1.70	0.74
52:BU:47:TYR:HA	52:BU:50:ARG:HH11	1.52	0.74
1:AA:773:G:O2'	1:AA:774:G:H5'	1.88	0.74
25:CY:128:TYR:O	25:CY:129:LYS:HB2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.52	0.74
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	1.69	0.74
46:DO:98:VAL:HG22	46:DO:117:LEU:HB3	1.70	0.74
30:D4:10:VAL:HG23	30:D4:11:PRO:HD2	1.70	0.73
42:DG:95:ARG:O	42:DG:96:ARG:HG2	1.88	0.73
53:DV:45:THR:O	53:DV:46:VAL:HG12	1.85	0.73
12:AL:41:ARG:CG	12:AL:42:THR:H	2.00	0.73
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.02	0.73
36:BA:2296:U:H4'	36:BA:2297:C:OP1	1.85	0.73
48:DQ:137:TYR:OH	57:DZ:81:ARG:HD3	1.88	0.73
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.88	0.73
39:BD:129:ASN:O	39:BD:193:VAL:HG12	1.88	0.73
3:AC:14:ILE:HG13	3:AC:15:THR:N	2.03	0.73
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.03	0.73
36:DA:1819:A:H4'	36:DA:1820:U:H5'	1.69	0.73
25:AY:416:LYS:CD	25:AY:417:THR:H	2.01	0.73
1:AA:201:C:H2'	1:AA:202:U:H5''	1.68	0.73
34:B8:2:PRO:HA	36:BA:591:C:O2	1.88	0.73
54:BW:78:GLU:OE2	54:BW:99:ARG:HD2	1.88	0.73
42:DG:62:LEU:HD12	42:DG:62:LEU:H	1.53	0.73
25:CY:489:LYS:HG2	25:CY:598:ASP:HB2	1.68	0.73
25:CY:528:ALA:O	25:CY:568:TYR:HA	1.88	0.73
50:DS:12:PHE:O	50:DS:14:VAL:HG23	1.88	0.73
36:BA:1142(A):A:H2'	36:BA:1143:A:H5''	1.68	0.73
34:B8:50:LEU:HD12	34:B8:51:ALA:H	1.52	0.73
36:BA:2787:C:H1'	40:BE:61:ARG:HD3	1.69	0.73
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.87	0.73
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.70	0.73
36:BA:1053:C:C3'	36:BA:1054:A:H5''	2.18	0.73
4:AD:13:ARG:O	4:AD:15:GLU:N	2.21	0.73
1:CA:625:G:H2'	1:CA:626:U:H6	1.52	0.73
1:AA:631:G:H2'	1:AA:632:A:C8	2.23	0.73
50:DS:59:LYS:HG2	50:DS:60:GLY:H	1.52	0.73
36:BA:871:U:OP1	48:BQ:5:ARG:HG3	1.87	0.73
49:BR:117:VAL:O	49:BR:118:GLU:HB2	1.86	0.73
45:BN:113:GLY:HA2	45:BN:116:LEU:HD12	1.69	0.73
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.23	0.73
36:DA:214:G:H1'	36:DA:216:A:O2'	1.87	0.73
25:AY:662:LYS:NZ	43:BH:175:LYS:HG3	2.03	0.73
25:CY:589:ALA:O	25:CY:593:ALA:HB2	1.87	0.73
23:AW:68:C:H2'	23:AW:69:C:C6	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DS:95:HIS:CG	50:DS:96:GLY:N	2.55	0.73
32:B6:5:VAL:HG12	32:B6:6:ARG:O	1.88	0.73
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.03	0.73
53:DV:38:LEU:HD23	53:DV:39:LEU:N	2.03	0.73
36:DA:1142(A):A:H2'	36:DA:1143:A:H5''	1.68	0.73
47:BP:85:LEU:HD12	47:BP:120:ALA:HB2	1.69	0.73
27:B1:80:LEU:HB3	27:B1:82:LEU:HD11	1.70	0.73
28:D2:64:LEU:O	28:D2:68:ARG:HB2	1.89	0.73
46:DO:114:ILE:HD12	46:DO:114:ILE:N	2.03	0.73
23:AW:24:U:H2'	23:AW:25:C:C6	2.22	0.73
1:CA:1128:C:H2'	1:CA:1129:C:H5''	1.69	0.73
42:BG:111:LEU:HA	42:BG:114:ILE:CD1	2.18	0.73
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.18	0.73
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.86	0.73
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.09	0.73
36:DA:840:C:H2'	36:DA:841:A:H5''	1.70	0.73
15:CO:78:TYR:O	15:CO:82:ILE:HG22	1.88	0.73
36:BA:192:C:H2'	36:BA:193:U:H5'	1.70	0.73
27:B1:64:ALA:O	27:B1:67:ILE:HG13	1.88	0.73
36:BA:613:G:H5'	36:BA:613:G:H8	1.53	0.73
36:DA:2314:C:O2'	36:DA:2315:G:H5'	1.87	0.73
36:BA:1242:A:N1	47:BP:8:PRO:HG2	2.03	0.73
36:BA:1504:C:C2'	36:BA:1505:C:H5''	2.17	0.73
36:BA:2776:A:H4'	36:BA:2777:G:H5''	1.71	0.73
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	2.02	0.73
29:D3:36:VAL:O	29:D3:37:LEU:HD23	1.88	0.73
28:B2:47:ASN:O	28:B2:49:LYS:N	2.22	0.73
42:DG:126:ASP:CB	42:DG:130:ASN:HB2	2.19	0.73
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.53	0.73
38:BC:4:HIS:ND1	38:BC:8:TYR:HE2	1.87	0.73
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.03	0.73
36:DA:1998:G:O2'	36:DA:1999:C:H5'	1.88	0.73
23:AW:56:C:H2'	23:AW:56:C:O2	1.87	0.73
54:BW:59:VAL:HA	54:BW:63:ASP:HA	1.68	0.73
54:BW:68:ARG:HA	54:BW:110:LYS:HG2	1.69	0.73
34:D8:2:PRO:HA	36:DA:591:C:O2	1.89	0.73
51:BT:89:VAL:HG12	51:BT:91:ARG:HG3	1.70	0.73
39:DD:35:LYS:HZ3	39:DD:35:LYS:HB3	1.54	0.73
45:DN:15:LEU:HB2	45:DN:134:ARG:HB2	1.70	0.73
23:AW:14:A:H3'	23:AW:15:G:C5'	2.19	0.73
51:BT:13:ARG:CZ	51:BT:13:ARG:HA	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:83:TYR:HB3	43:BH:135:GLY:H	1.52	0.73
19:CS:31:ILE:HG23	19:CS:49:ILE:HA	1.70	0.73
4:AD:129:ASN:N	4:AD:129:ASN:HD22	1.84	0.73
25:CY:541:ALA:HB1	25:CY:579:GLU:O	1.88	0.73
15:CO:11:VAL:O	15:CO:14:GLU:HB3	1.87	0.73
36:DA:176:G:O2'	36:DA:177:G:H5'	1.88	0.73
25:AY:335:LEU:HD23	25:AY:355:LEU:HD11	1.69	0.73
36:BA:958:U:OP2	48:BQ:14:ARG:NH1	2.20	0.73
54:BW:1:MET:HE3	54:BW:2:GLU:H	1.53	0.73
38:DC:4:HIS:ND1	38:DC:8:TYR:HE2	1.86	0.73
25:CY:174:PHE:CZ	25:CY:261:GLY:HA2	2.24	0.73
25:CY:193:GLY:HA3	25:CY:266:ASN:HB3	1.71	0.73
50:DS:98:VAL:HG12	50:DS:100:ALA:H	1.54	0.73
32:B6:28:ARG:CB	32:B6:28:ARG:HH11	2.01	0.73
47:DP:95:VAL:HA	47:DP:99:LEU:HD23	1.70	0.73
27:B1:86:SER:HB2	27:B1:90:ILE:HG12	1.71	0.73
36:DA:1242:A:N1	47:DP:8:PRO:HG2	2.04	0.73
56:BY:51:VAL:HG12	56:BY:53:PRO:CD	2.19	0.73
28:D2:38:GLN:HA	28:D2:41:ILE:CG2	2.17	0.73
40:BE:60:ASN:OD1	40:BE:62:PRO:HD2	1.87	0.73
25:AY:261:GLY:HA3	25:AY:267:LYS:O	1.89	0.73
17:AQ:52:LYS:CD	17:AQ:52:LYS:H	2.01	0.73
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	1.88	0.73
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.19	0.73
54:BW:107:LEU:H	54:BW:107:LEU:HD22	1.52	0.73
48:BQ:67:ARG:HD2	48:BQ:105:GLU:OE1	1.88	0.73
36:DA:1409:C:H2'	36:DA:1410:G:H8	1.53	0.73
1:AA:376:G:H2'	1:AA:377:G:H8	1.52	0.73
33:B7:8:ASN:HD22	33:B7:9:ARG:N	1.86	0.73
35:D9:18:ARG:O	35:D9:18:ARG:HG2	1.89	0.73
43:BH:19:VAL:HG12	43:BH:20:ALA:H	1.53	0.73
43:BH:30:LYS:HD2	43:BH:81:GLU:HG2	1.69	0.73
42:DG:108:ASN:C	42:DG:112:PRO:HG2	2.09	0.73
36:DA:2645:G:C3'	36:DA:2646:C:H5'	2.14	0.73
52:BU:92:ARG:O	52:BU:94:ASN:N	2.20	0.73
32:D6:35:GLU:HB2	32:D6:51:GLU:HB2	1.70	0.73
47:BP:127:ALA:HB3	47:BP:130:PHE:CE1	2.23	0.73
36:DA:662:G:OP1	47:DP:18:ARG:HD2	1.89	0.73
51:DT:32:TYR:CD1	51:DT:32:TYR:N	2.56	0.73
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.53	0.73
36:BA:710:G:H2'	36:BA:711:G:C8	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:184:GLU:HB2	38:DC:185:LYS:NZ	2.02	0.73
36:DA:1514:U:H2'	36:DA:1515:G:C8	2.23	0.73
25:AY:584:ILE:O	25:AY:588:MET:HG3	1.88	0.73
1:AA:1452:C:H1'	1:AA:1456:G:N2	2.02	0.73
36:DA:1231:G:H2'	36:DA:1232:G:H8	1.53	0.73
43:DH:19:VAL:HG12	43:DH:20:ALA:H	1.54	0.73
44:DJ:21:UNK:CB	44:DJ:88:UNK:HA	2.18	0.73
53:BV:98:GLU:OE2	53:BV:100:ARG:HD3	1.89	0.73
28:B2:2:LYS:HD2	28:B2:5:GLU:OE1	1.89	0.73
1:AA:514:C:H2'	1:AA:515:G:H8	1.54	0.73
57:DZ:132:ASN:O	57:DZ:133:ILE:HD13	1.89	0.73
36:DA:2312:U:C2'	36:DA:2313:C:H5''	2.18	0.73
41:DF:161:GLU:O	41:DF:165:ARG:HG3	1.89	0.73
25:CY:210:ARG:HH11	25:CY:210:ARG:HG2	1.51	0.73
25:AY:555:LEU:HG	25:AY:599:PRO:HB2	1.69	0.73
38:DC:28:ARG:HG3	38:DC:28:ARG:NH1	2.00	0.73
45:DN:58:ASP:O	45:DN:60:ILE:N	2.22	0.73
50:BS:12:PHE:O	50:BS:14:VAL:HG23	1.88	0.73
41:DF:185:ASP:HA	41:DF:188:ARG:CG	2.18	0.73
39:DD:35:LYS:C	39:DD:35:LYS:HD2	2.09	0.73
39:DD:35:LYS:HZ3	39:DD:36:PRO:CD	2.01	0.73
45:BN:15:LEU:HB2	45:BN:134:ARG:HB2	1.70	0.73
36:DA:2572:A:C5'	36:DA:2574:G:H4'	2.18	0.73
23:AW:32:C:H6	23:AW:32:C:O5'	1.72	0.73
40:BE:36:ARG:HH21	40:BE:88:GLY:HA2	1.53	0.73
13:AM:49:THR:O	13:AM:53:VAL:HG23	1.88	0.73
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.54	0.73
50:DS:59:LYS:HG2	50:DS:60:GLY:N	2.03	0.73
31:D5:58:LEU:O	31:D5:58:LEU:HD22	1.89	0.73
36:DA:1678:G:N2	36:DA:1989:G:H22	1.86	0.73
11:AK:91:ARG:NH1	18:AR:88:LYS:HE3	2.03	0.73
50:BS:83:LYS:HG2	50:BS:105:ALA:HB3	1.69	0.73
36:BA:2461:C:H5'	36:BA:2462:U:OP2	1.88	0.73
25:CY:152:THR:O	25:CY:156:ARG:HG2	1.89	0.73
25:CY:512:ILE:H	25:CY:512:ILE:HD13	1.53	0.73
30:B4:10:VAL:HG23	30:B4:11:PRO:HD2	1.69	0.73
25:AY:555:LEU:HD21	25:AY:599:PRO:HG2	1.71	0.73
28:B2:38:GLN:O	28:B2:41:ILE:HG12	1.88	0.73
25:AY:199:ILE:HD12	25:AY:199:ILE:O	1.89	0.73
51:BT:65:LYS:CE	51:BT:66:VAL:H	2.00	0.73
27:B1:86:SER:HB3	27:B1:89:GLU:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:2:ALA:N	36:BA:2014:A:HO2'	1.86	0.73
1:CA:1226:C:H5'	13:CM:96:LEU:HD13	1.71	0.73
43:DH:83:TYR:HB3	43:DH:135:GLY:H	1.52	0.73
36:BA:2777:G:H5''	36:BA:2778:A:H5''	1.71	0.73
57:DZ:151:HIS:HA	57:DZ:171:ILE:HG23	1.69	0.73
2:CB:95:GLN:C	2:CB:96:ARG:HD2	2.07	0.73
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.35	0.73
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.71	0.73
36:DA:1221(A):C:O2'	36:DA:1222:C:H5'	1.89	0.73
36:BA:2756:U:H4'	36:BA:2757:A:OP1	1.88	0.73
36:DA:2666:C:H5'	36:DA:2667:C:OP2	1.88	0.73
36:DA:1068:G:H21	36:DA:1096:A:H5'	1.53	0.73
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.71	0.73
37:BB:112:U:H2'	37:BB:113:G:H8	1.54	0.73
36:DA:1328:G:H8	36:DA:1328:G:O5'	1.72	0.73
36:DA:2497:A:OP2	36:DA:2497:A:H8	1.72	0.73
27:D1:45:ASN:HD21	36:DA:2090:G:H21	1.33	0.73
36:BA:882:G:H2'	36:BA:883:G:C8	2.22	0.73
42:DG:63:ILE:HG21	42:DG:141:PHE:CD2	2.24	0.73
53:BV:38:LEU:HD23	53:BV:39:LEU:N	2.03	0.73
42:BG:91:ARG:HD2	42:BG:92:VAL:N	2.04	0.73
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	1.89	0.73
57:DZ:10:ARG:HB3	57:DZ:36:LYS:HB2	1.71	0.73
56:DY:8:LYS:HD2	56:DY:8:LYS:N	2.04	0.73
56:BY:8:LYS:HD2	56:BY:8:LYS:N	2.03	0.73
39:BD:35:LYS:HD2	39:BD:35:LYS:C	2.08	0.73
10:CJ:96:ILE:H	10:CJ:96:ILE:HD13	1.53	0.73
36:BA:481:G:H2'	36:BA:507:A:N1	2.04	0.73
36:BA:2313:C:H5'	36:BA:2313:C:H6	1.53	0.73
39:DD:270:ILE:H	39:DD:270:ILE:HD12	1.53	0.73
53:DV:77:ALA:O	53:DV:79:VAL:HG23	1.87	0.73
36:BA:986:C:O2'	36:BA:987:G:H5'	1.88	0.73
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.19	0.73
53:BV:58:VAL:O	53:BV:97:LYS:HB2	1.88	0.73
36:BA:903:C:H2'	36:BA:904:C:H5'	1.70	0.73
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.19	0.73
1:CA:677:U:H3	1:CA:713:G:H22	1.37	0.73
25:CY:160:ARG:HH21	25:CY:219:VAL:HG22	1.52	0.73
36:BA:1943:U:H2'	36:BA:1943:U:O2	1.87	0.73
51:BT:82:LEU:N	51:BT:82:LEU:HD12	2.04	0.73
25:CY:539:ILE:HA	25:CY:542:VAL:HG12	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1012:U:O4	45:DN:28:THR:HG21	1.89	0.72
25:AY:212:TYR:HA	25:AY:215:LYS:HD2	1.71	0.72
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CE2	2.19	0.72
41:BF:185:ASP:HA	41:BF:188:ARG:CG	2.18	0.72
25:CY:71:THR:HG22	25:CY:80:ASN:OD1	1.89	0.72
36:BA:2672:G:C2'	36:BA:2673:G:H5''	2.18	0.72
57:BZ:115:GLY:CA	57:BZ:177:PRO:HG3	2.19	0.72
54:DW:78:GLU:OE2	54:DW:99:ARG:HD2	1.89	0.72
12:CL:57:LYS:HG3	12:CL:67:THR:HG22	1.71	0.72
36:BA:2742:C:O2'	36:BA:2743:C:H5'	1.89	0.72
16:AP:8:ARG:HB3	16:AP:28:ARG:HH12	1.54	0.72
43:BH:67:LEU:O	43:BH:71:LEU:HD12	1.89	0.72
1:AA:759:A:H2'	1:AA:760:G:H5'	1.69	0.72
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	1.71	0.72
25:CY:65:ILE:O	25:CY:65:ILE:HG12	1.88	0.72
50:BS:59:LYS:HG2	50:BS:60:GLY:H	1.53	0.72
23:CW:32:C:O5'	23:CW:32:C:H6	1.72	0.72
51:BT:98:LYS:HB3	51:BT:100:TYR:HE1	1.53	0.72
1:CA:1325:C:H2'	1:CA:1326:C:H6	1.54	0.72
25:CY:145:ASP:O	25:CY:149:VAL:HG23	1.89	0.72
32:B6:30:THR:O	32:B6:32:ASN:N	2.22	0.72
52:DU:93:LYS:HD2	52:DU:93:LYS:H	1.55	0.72
47:DP:85:LEU:HD12	47:DP:120:ALA:HB2	1.69	0.72
51:DT:29:ARG:CB	51:DT:85:LYS:HA	2.19	0.72
23:AW:7:G:H3'	23:AW:8:U:C5'	2.18	0.72
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.23	0.72
43:BH:46:GLU:CD	43:BH:51:ARG:HB2	2.08	0.72
36:DA:2776:A:H4'	36:DA:2777:G:H5''	1.71	0.72
43:DH:85:LYS:HE3	43:DH:145:ALA:HB1	1.69	0.72
34:B8:62:LEU:HD13	36:BA:242:G:H5''	1.71	0.72
1:CA:363:A:OP2	12:CL:33:ARG:HD3	1.89	0.72
12:AL:32:PHE:HE1	12:AL:86:ARG:HG3	1.53	0.72
7:AG:80:VAL:CG2	7:AG:83:ALA:HB3	2.19	0.72
36:DA:2147:G:H2'	36:DA:2148:G:O4'	1.88	0.72
36:DA:2248:C:H2'	36:DA:2249:U:H5'	1.72	0.72
38:DC:101:ILE:HG23	38:DC:128:LEU:HD23	1.71	0.72
25:AY:14:ASN:ND2	25:AY:80:ASN:HB2	2.02	0.72
25:CY:526:VAL:HB	25:CY:566:THR:HA	1.71	0.72
42:BG:68:PRO:CA	42:BG:92:VAL:HG12	2.17	0.72
36:BA:1845:G:H2'	36:BA:1846:G:C5'	2.18	0.72
36:BA:272(J):C:H42	36:BA:363:G:H22	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:8:GLN:CB	41:BF:126:VAL:HA	2.18	0.72
56:BY:28:LYS:O	56:BY:38:ILE:HG22	1.89	0.72
25:CY:238:THR:HG22	25:CY:241:GLU:HG2	1.69	0.72
25:CY:277:VAL:HG13	25:CY:278:ASP:H	1.54	0.72
47:BP:84:ASN:HA	47:BP:115:LEU:O	1.88	0.72
50:DS:85:VAL:HG23	50:DS:106:ARG:HG3	1.69	0.72
47:DP:58:THR:O	47:DP:61:ARG:NE	2.22	0.72
23:AW:22:G:O2'	23:AW:23:C:H5''	1.88	0.72
1:CA:1279:A:H5'	1:CA:1280:A:OP1	1.89	0.72
16:AP:33:ILE:O	16:AP:34:GLU:HB2	1.89	0.72
13:CM:91:ARG:HD2	13:CM:97:PRO:O	1.89	0.72
51:DT:13:ARG:CZ	51:DT:13:ARG:HA	2.18	0.72
12:CL:47:LYS:HZ3	12:CL:48:PRO:HD3	1.54	0.72
40:DE:36:ARG:HH21	40:DE:88:GLY:HA2	1.53	0.72
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	2.04	0.72
48:BQ:54:MET:HG2	48:BQ:64:ILE:HD13	1.69	0.72
36:DA:1332:G:H22	36:DA:1609:A:H3'	1.54	0.72
36:DA:2466:C:O2'	36:DA:2467:C:H5'	1.89	0.72
36:BA:1332:G:H22	36:BA:1609:A:H3'	1.55	0.72
19:AS:9:VAL:HG12	19:AS:9:VAL:O	1.88	0.72
36:DA:1523:U:H2'	36:DA:1524:G:C8	2.25	0.72
25:AY:613:PRO:HG2	25:AY:666:ARG:HE	1.55	0.72
25:AY:464:ASP:O	25:AY:468:ARG:HB2	1.90	0.72
32:B6:35:GLU:HB2	32:B6:51:GLU:HB2	1.72	0.72
31:D5:2:ALA:N	36:DA:2014:A:HO2'	1.87	0.72
52:BU:44:ASN:ND2	53:BV:75:PHE:HB3	2.04	0.72
51:DT:89:VAL:HG12	51:DT:91:ARG:HG3	1.72	0.72
36:BA:2020:A:C2'	36:BA:2021:C:H5''	2.19	0.72
39:DD:27:THR:HG21	39:DD:83:GLU:HG2	1.71	0.72
28:B2:69:ARG:HH22	36:BA:111:A:H4'	1.54	0.72
36:DA:1517:G:C8	36:DA:1517:G:H5'	2.24	0.72
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.72	0.72
2:AB:204:ASN:C	2:AB:204:ASN:HD22	1.88	0.72
1:CA:1423:G:C5'	46:DO:49:ARG:HH22	2.03	0.72
23:CW:2:G:H1	23:CW:71:C:H42	1.37	0.72
50:BS:34:HIS:NE2	50:BS:54:LEU:HB3	2.04	0.72
50:DS:49:VAL:HG12	50:DS:50:SER:H	1.54	0.72
1:AA:1279:A:H5'	1:AA:1280:A:OP1	1.90	0.72
25:AY:491:VAL:HG12	25:AY:492:ASP:N	2.05	0.72
1:CA:108:G:H5'	1:CA:109:A:H5''	1.71	0.72
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:214:G:H1'	36:BA:216:A:O2'	1.88	0.72
36:BA:1409:C:H2'	36:BA:1410:G:C8	2.24	0.72
1:AA:349:A:H2'	1:AA:350:G:H5''	1.71	0.72
25:AY:85:PRO:HG3	25:AY:94:VAL:HG13	1.71	0.72
55:BX:8:ILE:HD12	55:BX:8:ILE:N	2.03	0.72
49:BR:2:ARG:CD	49:BR:5:LYS:HE2	2.19	0.72
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.71	0.72
56:BY:7:VAL:HB	56:BY:8:LYS:CD	2.19	0.72
53:DV:18:LEU:HD22	53:DV:19:LYS:N	2.03	0.72
3:CC:59:ARG:HG3	3:CC:64:VAL:HA	1.71	0.72
25:AY:210:ARG:O	25:AY:214:GLU:HG2	1.88	0.72
36:BA:154(A):C:H3'	36:BA:155:U:C5'	2.18	0.72
1:CA:1227:A:C2'	13:CM:117:VAL:HG21	2.18	0.72
36:BA:288:C:H2'	36:BA:289:A:C8	2.23	0.72
43:BH:85:LYS:HE3	43:BH:145:ALA:HB1	1.70	0.72
4:CD:13:ARG:O	4:CD:15:GLU:N	2.22	0.72
12:AL:47:LYS:HB3	12:AL:47:LYS:HZ2	1.54	0.72
31:B5:58:LEU:O	31:B5:58:LEU:HD22	1.89	0.72
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.53	0.72
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.25	0.72
50:BS:40:ILE:HG22	50:BS:41:ASP:N	2.05	0.72
1:CA:1294:G:O2'	1:CA:1295:G:H5'	1.89	0.72
35:D9:34:GLN:O	35:D9:35:ARG:HB2	1.87	0.72
36:BA:1790:C:H5''	36:BA:1791:A:OP1	1.90	0.72
23:AW:35:A:N6	24:AX:14:U:O4	2.20	0.72
53:BV:18:LEU:HD22	53:BV:19:LYS:N	2.04	0.72
50:DS:96:GLY:O	50:DS:98:VAL:N	2.22	0.72
12:CL:41:ARG:CG	12:CL:42:THR:H	2.00	0.72
32:B6:15:GLU:OE2	32:B6:20:ASN:ND2	2.22	0.72
25:AY:227:ILE:HD13	25:AY:242:LEU:HA	1.70	0.72
47:BP:95:VAL:HA	47:BP:99:LEU:HD23	1.71	0.72
51:BT:32:TYR:N	51:BT:32:TYR:CD1	2.56	0.72
51:BT:38:ASN:O	51:BT:38:ASN:ND2	2.21	0.72
1:CA:1255:G:H2'	1:CA:1279:A:H62	1.54	0.72
36:DA:395:U:H2'	36:DA:396:G:C8	2.25	0.72
36:BA:545:C:C2'	36:BA:547:A:H5''	2.20	0.72
36:DA:936:C:H2'	36:DA:937:U:H6	1.52	0.72
34:B8:4:MET:CE	34:B8:61:LEU:HD22	2.20	0.72
36:BA:1775:U:H2'	36:BA:1776:G:H5'	1.69	0.72
56:BY:2:ARG:HD3	56:BY:3:VAL:HG23	1.69	0.72
27:D1:60:PHE:CD1	27:D1:91:LYS:HE3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2577:A:H5'	36:BA:2578:G:H5'	1.70	0.72
36:BA:1115:G:H2'	36:BA:1116:C:C6	2.24	0.72
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.53	0.72
33:B7:26:GLY:O	33:B7:30:VAL:HG23	1.88	0.72
36:BA:769:G:O2'	36:BA:770:G:H5'	1.89	0.72
32:B6:35:GLU:CB	32:B6:51:GLU:HB2	2.20	0.72
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	2.05	0.72
36:BA:480:A:OP2	56:BY:46:LYS:HE3	1.90	0.72
3:AC:154:SER:O	3:AC:165:THR:HA	1.90	0.72
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CB	2.19	0.72
20:CT:48:LYS:HB3	20:CT:51:GLU:CG	2.20	0.72
45:DN:133:GLN:HG2	45:DN:134:ARG:H	1.53	0.72
51:BT:16:ARG:H	51:BT:79:HIS:HD2	1.35	0.72
36:DA:1516:C:H2'	36:DA:1517:G:C5'	2.19	0.72
36:BA:1516:C:H2'	36:BA:1517:G:C5'	2.20	0.72
36:DA:2196:C:O2'	36:DA:2197:U:H5'	1.90	0.72
36:BA:2312:U:C2'	36:BA:2313:C:H5''	2.19	0.72
39:BD:14:ARG:HG3	39:BD:15:PHE:H	1.54	0.72
27:B1:50:ARG:HD2	36:BA:2200:C:OP1	1.89	0.72
16:CP:21:VAL:O	16:CP:33:ILE:HB	1.88	0.72
36:BA:395:U:H2'	36:BA:396:G:C8	2.24	0.72
36:DA:710:G:H2'	36:DA:711:G:C8	2.25	0.72
13:AM:78:ILE:O	13:AM:82:MET:HG2	1.89	0.72
25:AY:135:PHE:CD1	25:AY:272:LEU:HD22	2.24	0.72
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.54	0.72
36:DA:134:C:H2'	36:DA:135:G:H8	1.54	0.72
12:CL:32:PHE:HE1	12:CL:86:ARG:HG3	1.51	0.72
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.55	0.72
49:DR:21:TYR:HB3	49:DR:47:PHE:CD2	2.24	0.72
36:BA:654(S):G:H3'	36:BA:654(T):C:C5'	2.19	0.72
36:DA:2668:G:O2'	36:DA:2669:G:H5'	1.88	0.72
36:BA:2241:A:H2'	36:BA:2242:G:C8	2.25	0.72
26:D0:60:PHE:CE2	36:DA:2365:G:H4'	2.24	0.72
36:BA:2023:G:H5'	36:BA:2617:C:H4'	1.70	0.72
50:DS:52:SER:HB3	50:DS:55:ALA:HB3	1.72	0.72
36:DA:2315:G:O2'	42:DG:128:ARG:HD2	1.89	0.72
57:BZ:4:ARG:HD2	57:BZ:60:GLU:OE2	1.90	0.72
37:BB:7:G:H5'	50:BS:29:PHE:CD2	2.25	0.72
53:DV:18:LEU:CD2	53:DV:19:LYS:H	2.00	0.72
9:CI:114:TYR:HE2	10:CJ:60:ARG:H	1.36	0.72
25:CY:181:LEU:HD21	25:CY:243:VAL:HG22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:78:LEU:C	40:DE:79:ARG:HD2	2.09	0.72
36:DA:2713:A:H3'	36:DA:2714:G:H5'	1.71	0.72
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.23	0.72
1:AA:1227:A:C2'	13:AM:117:VAL:HG21	2.20	0.72
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.71	0.72
1:AA:99:U:H2'	1:AA:100:C:C6	2.25	0.72
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.25	0.72
23:CW:23:C:H2'	23:CW:24:U:C6	2.24	0.72
36:DA:1775:U:C2'	36:DA:1776:G:H5'	2.19	0.72
26:D0:30:VAL:HG12	26:D0:66:VAL:HG22	1.72	0.72
27:D1:29:GLY:HA3	36:DA:2396:G:O2'	1.90	0.72
1:CA:1404:C:H1'	1:CA:1499:A:N1	2.05	0.72
28:B2:7:ARG:O	28:B2:11:GLU:HG3	1.90	0.72
46:DO:17:ARG:NE	46:DO:47:ILE:HD11	2.05	0.72
1:CA:194:C:H2'	1:CA:195:A:H5''	1.72	0.72
45:BN:133:GLN:HG2	45:BN:134:ARG:H	1.55	0.72
1:AA:266:G:H5''	1:AA:266:G:H8	1.54	0.72
39:BD:44:ASN:HB2	39:BD:48:ARG:O	1.89	0.72
22:CV:4:C:HO2'	22:CV:5:G:H8	1.38	0.72
16:CP:8:ARG:HB3	16:CP:28:ARG:HH12	1.55	0.72
2:AB:83:MET:HG3	2:AB:234:PRO:HG3	1.72	0.72
25:CY:180:VAL:HG23	25:CY:216:LEU:HD22	1.72	0.72
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.54	0.72
7:CG:80:VAL:CG2	7:CG:83:ALA:HB3	2.19	0.72
37:BB:91:C:OP1	48:BQ:16:ARG:HG3	1.90	0.72
25:CY:137:ASN:HD21	25:CY:263:ALA:CB	2.03	0.72
50:DS:34:HIS:NE2	50:DS:54:LEU:HB3	2.04	0.72
25:CY:327:PHE:HA	25:CY:376:ALA:HA	1.72	0.72
53:BV:18:LEU:CD2	53:BV:19:LYS:H	2.01	0.72
53:BV:19:LYS:HZ3	53:BV:20:LEU:H	1.35	0.72
55:BX:35:THR:O	55:BX:39:ILE:HG12	1.89	0.72
42:BG:60:LEU:O	42:BG:63:ILE:HD11	1.89	0.72
32:B6:5:VAL:CG2	36:BA:2283:C:H5'	2.19	0.72
36:BA:1012:U:O4	45:BN:28:THR:HG21	1.89	0.72
52:DU:44:ASN:ND2	53:DV:75:PHE:HB3	2.03	0.72
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.25	0.72
39:DD:131:LEU:N	39:DD:131:LEU:HD12	2.04	0.72
36:DA:154(A):C:C5'	36:DA:155:U:H5''	2.19	0.72
25:AY:510:VAL:HG22	25:AY:534:ILE:HD11	1.70	0.72
51:BT:35:LYS:HZ3	51:BT:41:ARG:HD2	1.55	0.72
48:DQ:27:VAL:HG21	48:DQ:134:ARG:HG2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2712:U:O2'	36:DA:2712(A):A:H8	1.66	0.72
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.72	0.72
25:CY:135:PHE:CD1	25:CY:272:LEU:HD22	2.24	0.72
12:CL:27:LEU:HB2	12:CL:62:SER:HB2	1.70	0.72
34:D8:4:MET:CE	34:D8:61:LEU:HD22	2.20	0.72
36:BA:1169:G:H1	36:BA:1180:C:H42	1.37	0.72
43:DH:144:VAL:O	43:DH:148:ILE:HG12	1.90	0.72
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.72	0.72
25:CY:346:LYS:HE2	25:CY:384:ILE:HG23	1.72	0.72
12:AL:89:ARG:HD3	12:AL:91:LYS:NZ	2.03	0.72
30:D4:12:ALA:CB	30:D4:29:PRO:HA	2.19	0.72
49:DR:2:ARG:CD	49:DR:5:LYS:HE2	2.19	0.71
25:AY:539:ILE:HD12	25:AY:567:LEU:HD21	1.72	0.71
23:AW:31:G:H5'	23:AW:31:G:H8	1.54	0.71
36:BA:662:G:OP1	47:BP:18:ARG:HD2	1.90	0.71
40:BE:44:TYR:O	40:BE:45:THR:HB	1.90	0.71
42:BG:56:ALA:HB1	42:BG:153:ARG:CZ	2.20	0.71
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.25	0.71
53:BV:77:ALA:O	53:BV:79:VAL:HG23	1.89	0.71
38:BC:128:LEU:HD12	38:BC:132:LEU:HG	1.72	0.71
50:BS:40:ILE:HG22	50:BS:41:ASP:H	1.52	0.71
2:CB:118:LEU:HB3	2:CB:142:LEU:HD12	1.71	0.71
1:CA:447:G:H2'	1:CA:485:G:N2	2.05	0.71
36:DA:2577:A:H5'	36:DA:2578:G:H5'	1.70	0.71
36:BA:1678:G:N2	36:BA:1989:G:H22	1.87	0.71
1:CA:1486:G:H2'	1:CA:1487:G:O4'	1.90	0.71
1:AA:707:C:H4'	11:AK:20:TYR:CD2	2.24	0.71
36:BA:975(A):G:O2'	36:BA:976:C:H5'	1.89	0.71
36:DA:1850:G:H5'	36:DA:1851:U:OP2	1.90	0.71
43:BH:68:THR:O	43:BH:72:ILE:HG12	1.90	0.71
25:CY:120:THR:O	25:CY:124:GLN:CD	2.28	0.71
36:DA:336:C:H4'	56:DY:7:VAL:HG21	1.71	0.71
45:BN:18:ALA:CB	45:BN:21:LYS:HB2	2.19	0.71
56:DY:51:VAL:HG12	56:DY:53:PRO:CD	2.18	0.71
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ2	1.53	0.71
27:B1:60:PHE:CE1	27:B1:91:LYS:HE3	2.25	0.71
27:D1:76:ARG:HH22	27:D1:95:LEU:CD1	2.04	0.71
57:BZ:86:VAL:HG12	57:BZ:87:ASP:N	2.04	0.71
40:BE:78:LEU:C	40:BE:79:ARG:HD2	2.10	0.71
36:BA:1517:G:H5'	36:BA:1517:G:C8	2.24	0.71
54:DW:22:ASP:HA	54:DW:25:ARG:NH1	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.25	0.71
57:DZ:109:ALA:HB3	57:DZ:145:GLU:HA	1.72	0.71
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.20	0.71
36:BA:936:C:H2'	36:BA:937:U:H6	1.54	0.71
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.20	0.71
36:BA:586:A:H5'	41:BF:89:VAL:HG21	1.72	0.71
36:BA:2463:C:O2'	36:BA:2464:C:H5'	1.90	0.71
50:BS:59:LYS:HG2	50:BS:60:GLY:N	2.04	0.71
1:CA:349:A:H2'	1:CA:350:G:H5''	1.71	0.71
1:CA:275:G:H5''	17:CQ:14:LYS:HB2	1.72	0.71
36:BA:573:G:O2'	36:BA:574:C:H3'	1.88	0.71
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.70	0.71
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.55	0.71
36:BA:1068:G:H21	36:BA:1096:A:H5'	1.55	0.71
38:DC:139:PRO:HA	38:DC:145:THR:HG21	1.72	0.71
55:DX:55:ASN:HB2	55:DX:80:ILE:HG12	1.71	0.71
36:DA:2286:A:H4'	36:DA:2287:A:C5'	2.20	0.71
51:DT:28:VAL:CG2	51:DT:46:GLU:HA	2.19	0.71
41:DF:187:VAL:HG12	47:DP:7:ARG:HH22	1.55	0.71
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.20	0.71
36:BA:614(A):U:H4'	36:BA:614(B):G:C5'	2.20	0.71
12:AL:27:LEU:HB2	12:AL:62:SER:HB2	1.72	0.71
12:AL:47:LYS:HZ3	12:AL:48:PRO:HD3	1.55	0.71
19:CS:9:VAL:HG12	19:CS:9:VAL:O	1.88	0.71
49:BR:21:TYR:HB3	49:BR:47:PHE:CD2	2.26	0.71
1:CA:631:G:H2'	1:CA:632:A:C8	2.24	0.71
56:BY:10:GLY:CA	56:BY:27:VAL:HG13	2.20	0.71
36:DA:1001:A:H2'	36:DA:1002:G:O4'	1.90	0.71
25:AY:192:LEU:O	25:AY:192:LEU:HD13	1.89	0.71
40:DE:11:MET:HB3	40:DE:24:THR:HA	1.70	0.71
36:DA:598:G:H5'	47:DP:15:ARG:HB2	1.72	0.71
36:DA:2304:G:H22	36:DA:2312:U:H3	1.38	0.71
37:DB:45:A:H1'	42:DG:95:ARG:NH1	2.05	0.71
25:CY:487:ILE:CG2	25:CY:594:VAL:HG13	2.20	0.71
23:AW:68:C:H6	23:AW:68:C:H5'	1.54	0.71
31:D5:4:HIS:O	36:DA:2056:G:N2	2.23	0.71
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.26	0.71
27:D1:76:ARG:NH1	27:D1:95:LEU:HD22	2.06	0.71
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.56	0.71
46:BO:104:ARG:NE	51:BT:33:LYS:HE3	2.06	0.71
36:BA:1503:U:H2'	36:BA:1504:C:C6	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.54	0.71
51:DT:80:SER:HB3	51:DT:81:PRO:HD3	1.71	0.71
36:BA:2314:C:O2'	36:BA:2315:G:H5'	1.91	0.71
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.21	0.71
41:DF:148:LEU:HD23	41:DF:191:ARG:NH1	2.06	0.71
54:DW:109:GLU:CD	54:DW:109:GLU:H	1.94	0.71
6:AF:9:VAL:HB	6:AF:87:ARG:HB2	1.71	0.71
54:DW:10:VAL:HG23	54:DW:101:SER:O	1.89	0.71
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.55	0.71
42:DG:51:ARG:NH1	42:DG:53:LEU:HD21	2.05	0.71
57:DZ:29:TYR:HB3	57:DZ:34:ASN:HB2	1.73	0.71
53:DV:19:LYS:HZ3	53:DV:20:LEU:H	1.37	0.71
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.73	0.71
36:BA:2286:A:H4'	36:BA:2287:A:C5'	2.19	0.71
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.04	0.71
25:AY:413:ILE:HD11	25:AY:474:ALA:HB3	1.73	0.71
31:B5:4:HIS:CB	31:B5:5:PRO:HD3	2.19	0.71
28:D2:47:ASN:HB2	36:DA:95:G:H1'	1.71	0.71
39:DD:27:THR:CG2	39:DD:83:GLU:HG2	2.20	0.71
36:DA:2020:A:C2'	36:DA:2021:C:H5''	2.20	0.71
25:AY:196:ILE:HG13	25:AY:197:ARG:N	2.04	0.71
23:CW:24:U:H2'	23:CW:25:C:C6	2.25	0.71
36:DA:2463:C:O2'	36:DA:2464:C:H5'	1.90	0.71
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.55	0.71
51:DT:38:ASN:ND2	51:DT:38:ASN:O	2.20	0.71
57:DZ:98:MET:O	57:DZ:126:VAL:HG22	1.90	0.71
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.71	0.71
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.90	0.71
24:CX:11:A:N3	24:CX:11:A:H3'	2.06	0.71
23:CW:35:A:N6	24:CX:14:U:O4	2.20	0.71
25:AY:12:LEU:HD12	25:AY:14:ASN:HD21	1.55	0.71
50:BS:97:ARG:HH21	50:BS:98:VAL:HA	1.54	0.71
36:DA:2439:A:C8	36:DA:2586:C:H4'	2.25	0.71
32:D6:8:LYS:NZ	36:DA:2285:C:H5	1.87	0.71
25:AY:601:ILE:HG21	25:AY:687:LEU:CD1	2.20	0.71
56:DY:7:VAL:HB	56:DY:8:LYS:CD	2.20	0.71
53:DV:19:LYS:NZ	53:DV:20:LEU:H	1.88	0.71
39:BD:131:LEU:N	39:BD:131:LEU:HD12	2.06	0.71
45:DN:62:VAL:HG22	45:DN:66:LYS:HG3	1.71	0.71
50:BS:13:ARG:CG	50:BS:14:VAL:H	2.03	0.71
25:AY:573:HIS:CD2	25:AY:575:VAL:H	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:114:ILE:HD12	46:BO:114:ILE:N	2.06	0.71
36:DA:1503:U:H2'	36:DA:1504:C:C6	2.22	0.71
25:AY:9:LEU:HD21	25:AY:284:LEU:HB2	1.72	0.71
1:CA:1129:C:H5'	1:CA:1129:C:H6	1.54	0.71
36:BA:285:C:H2'	36:BA:286:C:H5'	1.72	0.71
36:BA:614(A):U:H5''	36:BA:614(B):G:OP2	1.90	0.71
1:CA:99:U:H2'	1:CA:100:C:C6	2.26	0.71
42:BG:77:ILE:HG22	42:BG:80:PHE:H	1.56	0.71
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.90	0.71
36:BA:1409:C:H2'	36:BA:1410:G:H8	1.55	0.71
1:AA:1294:G:O2'	1:AA:1295:G:H5'	1.90	0.71
1:AA:108:G:H5'	1:AA:109:A:H5''	1.72	0.71
33:D7:26:GLY:O	33:D7:30:VAL:HG23	1.90	0.71
36:BA:658:C:H2'	36:BA:659:C:C6	2.26	0.71
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.72	0.71
36:BA:2602:A:H4'	36:BA:2603:G:C5'	2.20	0.71
51:BT:75:ILE:N	51:BT:75:ILE:HD12	2.05	0.71
36:DA:1649:G:O2'	36:DA:1650:G:H5'	1.91	0.71
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.56	0.71
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.56	0.71
24:CX:16:U:C2'	24:CX:17:U:H5'	2.20	0.71
36:DA:769:G:O2'	36:DA:770:G:H5'	1.90	0.71
25:CY:289:ILE:HD11	25:CY:331:TYR:CZ	2.25	0.71
25:CY:488:THR:HG23	25:CY:600:VAL:CB	2.21	0.71
1:CA:1349:A:OP1	9:CI:120:ARG:HB2	1.90	0.71
36:BA:2439:A:C8	36:BA:2586:C:H4'	2.24	0.71
51:DT:65:LYS:CE	51:DT:66:VAL:H	2.01	0.71
36:BA:1514:U:H2'	36:BA:1515:G:C8	2.26	0.71
36:BA:1514:U:H2'	36:BA:1515:G:H8	1.56	0.71
23:CW:51:C:C2'	23:CW:52:G:H5''	2.20	0.71
42:BG:53:LEU:N	42:BG:53:LEU:HD22	2.03	0.71
26:D0:11:ARG:HB2	26:D0:11:ARG:HH11	1.54	0.71
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.91	0.71
36:BA:1001:A:H2'	36:BA:1002:G:O4'	1.90	0.71
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.25	0.71
24:AX:11:A:H3'	24:AX:11:A:N3	2.06	0.71
53:BV:19:LYS:HG2	53:BV:94:LEU:HB2	1.72	0.71
36:DA:1278:A:C5'	49:DR:36:THR:HG22	2.21	0.71
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.26	0.71
25:CY:605:ILE:HD11	25:CY:677:GLN:CG	2.21	0.71
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:33:ILE:O	16:CP:34:GLU:HB2	1.91	0.71
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.71	0.71
36:DA:907:U:OP1	48:DQ:24:GLY:N	2.23	0.71
34:D8:62:LEU:HD13	36:DA:242:G:H5''	1.73	0.71
48:DQ:67:ARG:HD2	48:DQ:105:GLU:OE1	1.90	0.71
1:CA:243:A:H4'	1:CA:244:U:O5'	1.91	0.71
36:BA:176:G:O2'	36:BA:177:G:H5'	1.90	0.71
36:DA:790:C:H5'	36:DA:791:C:OP2	1.91	0.71
36:BA:297:C:H2'	36:BA:298:G:O4'	1.91	0.71
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.72	0.71
1:AA:275:G:H5''	17:AQ:14:LYS:HB2	1.71	0.71
36:DA:654(S):G:H3'	36:DA:654(T):C:C5'	2.20	0.71
45:DN:109:LYS:H	45:DN:109:LYS:CE	2.03	0.71
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	1.71	0.71
25:AY:329:ARG:HD3	25:AY:374:LEU:HD11	1.72	0.71
50:BS:95:HIS:CG	50:BS:96:GLY:N	2.53	0.71
45:BN:58:ASP:O	45:BN:60:ILE:N	2.24	0.71
25:AY:165:GLN:C	25:AY:166:LEU:HD12	2.11	0.71
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.21	0.71
36:BA:1203:G:H3'	36:BA:1204:A:H5''	1.72	0.71
50:BS:106:ARG:HB3	50:BS:106:ARG:NH1	2.06	0.71
36:BA:2713:A:H3'	36:BA:2714:G:H5'	1.72	0.71
36:DA:2069:G:O2'	36:DA:2070:G:H5'	1.90	0.71
26:B0:11:ARG:HB2	26:B0:11:ARG:HH11	1.56	0.71
1:CA:1375:A:H5'	1:CA:1376:U:OP2	1.90	0.71
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.54	0.71
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.26	0.71
20:CT:42:GLN:HE21	20:CT:42:GLN:HA	1.54	0.71
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.55	0.71
25:CY:69:VAL:HA	25:CY:81:ILE:O	1.90	0.71
25:AY:400:GLU:O	25:AY:402:ILE:HD12	1.90	0.71
25:CY:138:LYS:HE2	60:CY:702:GDP:N9	2.05	0.71
53:DV:19:LYS:HG2	53:DV:94:LEU:HB2	1.71	0.71
25:CY:609:GLU:O	25:CY:669:PHE:HA	1.90	0.71
42:BG:135:LEU:CD1	42:BG:155:MET:HG2	2.20	0.71
29:B3:17:LYS:HZ3	29:B3:20:LYS:HE3	1.56	0.71
1:AA:194:C:H2'	1:AA:195:A:H5''	1.71	0.71
3:AC:59:ARG:HG3	3:AC:64:VAL:HA	1.72	0.71
1:AA:509:A:C5'	1:AA:510:A:OP2	2.39	0.71
36:BA:1658:C:H2'	36:BA:1659:U:H6	1.56	0.71
51:DT:45:PHE:CE2	51:DT:74:ARG:HB2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:179:GLU:HB3	40:DE:181:LEU:CD2	2.20	0.71
36:DA:285:C:H2'	36:DA:286:C:H5'	1.72	0.71
9:AI:47:LEU:H	9:AI:47:LEU:CD1	2.04	0.71
49:DR:87:TYR:C	49:DR:89:ASP:H	1.93	0.71
36:DA:2801:A:H4'	36:DA:2801(A):A:O4'	1.91	0.71
40:DE:4:ILE:HD13	40:DE:28:ALA:HB1	1.71	0.71
31:D5:44:THR:HG21	49:DR:101:ALA:HB2	1.72	0.71
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.56	0.71
43:DH:76:VAL:O	43:DH:79:VAL:HG22	1.91	0.71
42:DG:141:PHE:HB2	42:DG:144:ILE:HG22	1.73	0.70
25:CY:632:LEU:HD12	25:CY:644:ARG:HB2	1.73	0.70
31:B5:4:HIS:O	36:BA:2056:G:N2	2.24	0.70
36:BA:2572:A:C5'	36:BA:2574:G:H4'	2.19	0.70
10:AJ:55:LYS:H	10:AJ:55:LYS:HE3	1.56	0.70
36:DA:614(A):U:H4'	36:DA:614(B):G:C5'	2.20	0.70
1:CA:408:A:H4'	4:CD:112:VAL:HG11	1.73	0.70
43:DH:30:LYS:HD2	43:DH:81:GLU:HG2	1.73	0.70
56:DY:10:GLY:CA	56:DY:27:VAL:HG13	2.21	0.70
36:BA:2666:C:H5'	36:BA:2667:C:OP2	1.91	0.70
1:CA:545:C:O2'	1:CA:546:G:H5'	1.91	0.70
42:BG:133:LEU:HD11	42:BG:157:ILE:HD12	1.71	0.70
36:BA:2248:C:H2'	36:BA:2249:U:H5'	1.72	0.70
1:AA:1325:C:H2'	1:AA:1326:C:H6	1.54	0.70
36:BA:134:C:H2'	36:BA:135:G:H8	1.55	0.70
36:BA:1523:U:H2'	36:BA:1524:G:C8	2.26	0.70
42:DG:73:ALA:HB3	42:DG:87:PRO:HG3	1.71	0.70
25:AY:17:ILE:N	25:AY:17:ILE:HD12	2.06	0.70
36:DA:2784:C:H1'	40:DE:37:ARG:HH12	1.56	0.70
50:BS:28:VAL:HG12	50:BS:29:PHE:N	2.05	0.70
56:DY:8:LYS:HB2	56:DY:28:LYS:HZ3	1.53	0.70
32:B6:48:VAL:HG23	32:B6:49:HIS:N	2.05	0.70
25:CY:670:VAL:HG23	25:CY:671:MET:N	2.05	0.70
36:DA:2468:G:HO2'	36:DA:2476:A:H8	1.36	0.70
36:BA:2304:G:H22	36:BA:2312:U:H3	1.39	0.70
39:DD:145:VAL:HG22	39:DD:191:ALA:HB1	1.73	0.70
26:D0:14:ARG:NH1	26:D0:14:ARG:HB2	2.06	0.70
30:D4:30:GLU:O	30:D4:31:ILE:HD12	1.91	0.70
30:B4:30:GLU:O	30:B4:31:ILE:HD12	1.90	0.70
36:BA:1721:G:C6	36:BA:1739:U:H5'	2.26	0.70
29:D3:56:VAL:HG12	29:D3:57:GLU:N	2.05	0.70
40:BE:4:ILE:CD1	40:BE:28:ALA:HB1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:9:VAL:HB	6:CF:87:ARG:HB2	1.73	0.70
55:DX:30:VAL:HG22	55:DX:77:LYS:O	1.92	0.70
36:BA:781:A:H2'	36:BA:1777:U:O2'	1.91	0.70
51:DT:82:LEU:HD12	51:DT:82:LEU:N	2.06	0.70
51:DT:98:LYS:HB3	51:DT:100:TYR:HE1	1.56	0.70
50:DS:51:ALA:HB3	50:DS:73:LEU:HB2	1.72	0.70
10:AJ:82:ILE:O	10:AJ:86:MET:HB2	1.91	0.70
55:BX:55:ASN:HB2	55:BX:80:ILE:HG12	1.72	0.70
29:D3:8:LEU:HD22	29:D3:31:LEU:CD2	2.20	0.70
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	1.96	0.70
55:DX:8:ILE:N	55:DX:8:ILE:HD12	2.06	0.70
25:AY:250:THR:CA	25:AY:255:ILE:HG23	2.20	0.70
57:DZ:157:LEU:HD11	57:DZ:163:LEU:HD22	1.73	0.70
23:AW:30:G:O2'	23:AW:31:G:H5''	1.91	0.70
36:BA:806:C:OP2	47:BP:39:LYS:HD3	1.90	0.70
13:AM:91:ARG:HD2	13:AM:97:PRO:O	1.91	0.70
36:BA:2876:G:H4'	51:BT:3:ARG:NE	2.06	0.70
13:CM:78:ILE:O	13:CM:82:MET:HG2	1.90	0.70
36:DA:545:C:C2'	36:DA:547:A:H5''	2.21	0.70
3:CC:123:GLN:HB3	3:CC:128:PHE:HD2	1.54	0.70
40:DE:4:ILE:CD1	40:DE:28:ALA:HB1	2.21	0.70
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.26	0.70
25:AY:205:TYR:O	25:AY:207:ASP:N	2.24	0.70
36:DA:2815:C:H2'	36:DA:2816:C:C6	2.27	0.70
36:BA:2801:A:H4'	36:BA:2801(A):A:O4'	1.91	0.70
47:BP:92:GLU:HG3	47:BP:93:GLY:H	1.56	0.70
36:DA:848:G:O6	36:DA:928:G:H2'	1.91	0.70
53:DV:98:GLU:OE2	53:DV:100:ARG:HD3	1.91	0.70
29:B3:28:LEU:HA	29:B3:33:GLN:OE1	1.91	0.70
36:DA:1721:G:C6	36:DA:1739:U:H5'	2.26	0.70
36:DA:742:G:O2'	36:DA:743:G:H5'	1.90	0.70
36:BA:1221(A):C:O2'	36:BA:1222:C:H5'	1.91	0.70
45:BN:65:LYS:HB3	45:BN:65:LYS:HZ2	1.57	0.70
1:AA:1502:A:H2	1:AA:1505:G:N1	1.85	0.70
24:AX:15:G:O2'	24:AX:16:U:H5''	1.91	0.70
42:DG:97:ASP:O	42:DG:101:ILE:HB	1.90	0.70
36:BA:1885:A:H5'	36:BA:1885:A:H8	1.54	0.70
25:CY:100:VAL:HG23	25:CY:312:LEU:HD13	1.73	0.70
31:B5:56:LYS:CG	31:B5:57:VAL:H	1.96	0.70
25:AY:546:ILE:O	25:AY:550:MET:HG3	1.91	0.70
36:DA:2579:C:H4'	40:DE:134:ILE:CG1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:3:LYS:NZ	36:DA:2613:U:H2'	2.06	0.70
45:DN:18:ALA:CB	45:DN:21:LYS:HB2	2.20	0.70
25:AY:411:VAL:HG12	25:AY:412:ALA:N	2.06	0.70
5:AE:80:ILE:HG22	8:AH:104:ARG:HH22	1.56	0.70
36:DA:481:G:H2'	36:DA:507:A:N1	2.06	0.70
51:BT:13:ARG:HA	51:BT:13:ARG:NH1	2.07	0.70
41:BF:148:LEU:HD23	41:BF:191:ARG:NH1	2.07	0.70
23:CW:22:G:H2'	23:CW:23:C:H5''	1.72	0.70
36:DA:2742:C:O2'	36:DA:2743:C:H5'	1.91	0.70
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.72	0.70
40:BE:4:ILE:HD13	40:BE:28:ALA:HB1	1.73	0.70
46:DO:26:LYS:HB3	46:DO:30:ALA:HB2	1.71	0.70
12:CL:79:GLU:HB2	25:CY:442:THR:HG21	1.73	0.70
53:DV:6:LYS:O	53:DV:37:VAL:HG21	1.92	0.70
29:D3:59:VAL:HG12	29:D3:60:GLU:N	2.06	0.70
1:AA:473:G:H2'	1:AA:474:G:H8	1.55	0.70
26:B0:60:PHE:CE2	36:BA:2365:G:H4'	2.27	0.70
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.56	0.70
36:DA:1259:G:O2'	36:DA:1260:G:H5'	1.91	0.70
38:DC:23:ILE:HB	38:DC:229:SER:OXT	1.91	0.70
36:DA:297:C:H2'	36:DA:298:G:O4'	1.90	0.70
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.55	0.70
24:AX:16:U:C2'	24:AX:17:U:H5'	2.20	0.70
25:CY:112:GLN:HG3	25:CY:115:GLU:HB3	1.72	0.70
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	1.91	0.70
36:DA:1846:G:H5'	36:DA:1846:G:C8	2.22	0.70
36:DA:2287:A:N6	36:DA:2344:U:H3	1.88	0.70
3:AC:156:ARG:NH2	3:AC:161:GLU:HA	2.06	0.70
37:DB:103:G:N2	57:DZ:73:GLN:HE22	1.84	0.70
9:CI:53:VAL:HG13	9:CI:95:LYS:HE3	1.72	0.70
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.06	0.70
9:AI:46:ALA:O	9:AI:49:PRO:HD2	1.92	0.70
36:DA:2396:G:O2'	36:DA:2397:G:H5'	1.92	0.70
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.73	0.70
1:AA:477:A:O2'	1:AA:479:C:H5'	1.92	0.70
1:CA:490:G:H2'	1:CA:491:G:H8	1.56	0.70
36:BA:1780:A:H5'	36:BA:1781:C:OP2	1.91	0.70
1:AA:1047:G:H5''	14:AN:4:LYS:HD3	1.73	0.70
38:BC:211:ARG:HG3	38:BC:211:ARG:HH11	1.57	0.70
25:CY:409:ILE:CD1	25:CY:656:ALA:HB3	2.21	0.70
25:CY:148:LEU:HA	25:CY:151:ARG:HD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:112:LYS:CA	9:AI:119:ALA:HB2	2.15	0.70
36:BA:2012:G:H4'	54:BW:96:ILE:CD1	2.10	0.70
50:DS:13:ARG:HG3	50:DS:14:VAL:N	2.01	0.70
32:B6:37:ARG:NH1	36:BA:2286:A:N7	2.40	0.70
51:BT:29:ARG:CB	51:BT:85:LYS:HA	2.21	0.70
41:BF:187:VAL:HG12	47:BP:7:ARG:HH22	1.56	0.70
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.10	0.70
23:AW:27:U:O2'	23:AW:28:C:H5'	1.89	0.70
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.21	0.70
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	2.07	0.70
18:AR:45:SER:H	18:AR:51:LEU:HG	1.56	0.70
41:BF:192:LEU:HD21	41:BF:194:MET:HG3	1.72	0.70
3:CC:14:ILE:HG13	3:CC:15:THR:N	2.05	0.70
43:DH:67:LEU:O	43:DH:71:LEU:HD12	1.91	0.70
25:CY:137:ASN:HD21	25:CY:263:ALA:HB3	1.56	0.70
36:DA:2636:U:H4'	40:DE:80:GLU:OE1	1.91	0.70
36:DA:1169:G:H1	36:DA:1180:C:H42	1.37	0.70
56:BY:86:ARG:HB3	56:BY:88:LYS:HZ1	1.57	0.70
40:BE:81:ILE:O	40:BE:81:ILE:HG22	1.91	0.70
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.27	0.70
33:D7:6:GLN:O	36:DA:686:G:H1'	1.91	0.70
25:AY:122:TRP:CE3	25:AY:132:ARG:HD2	2.26	0.70
27:B1:41:ARG:NH2	36:BA:1365:A:H5'	2.07	0.70
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.57	0.70
40:DE:117:MET:HA	40:DE:122:PHE:N	1.99	0.70
53:DV:38:LEU:O	53:DV:39:LEU:HD13	1.91	0.70
49:DR:113:LEU:HD12	49:DR:114:VAL:H	1.56	0.70
10:AJ:70:ARG:HH11	10:AJ:70:ARG:HG2	1.56	0.70
51:DT:16:ARG:H	51:DT:79:HIS:HD2	1.38	0.70
10:CJ:55:LYS:H	10:CJ:55:LYS:HE3	1.57	0.70
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.74	0.70
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.73	0.70
50:DS:40:ILE:HG22	50:DS:41:ASP:N	2.06	0.70
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.56	0.70
51:BT:98:LYS:HB3	51:BT:100:TYR:CE1	2.27	0.70
1:CA:434:U:H2'	1:CA:435:C:C6	2.26	0.70
23:CW:17(A):U:OP1	36:DA:2180:U:H4'	1.92	0.70
25:AY:330:VAL:HB	25:AY:371:ALA:HA	1.73	0.70
36:BA:208:C:H2'	36:BA:209:C:H6	1.57	0.70
26:B0:30:VAL:HG12	26:B0:66:VAL:HG22	1.73	0.70
25:AY:625:ASN:C	25:AY:627:ARG:H	1.94	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:144:VAL:O	43:BH:148:ILE:HG12	1.91	0.70
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.06	0.70
36:DA:1390:U:O2'	36:DA:1391:U:H5'	1.91	0.70
36:BA:2815:C:H2'	36:BA:2816:C:C6	2.27	0.70
37:DB:112:U:H2'	37:DB:113:G:H8	1.56	0.70
24:CX:15:G:O2'	24:CX:16:U:H5''	1.91	0.70
42:DG:55:LYS:HA	42:DG:58:GLN:HG3	1.74	0.70
59:AY:701:FUA:H231	59:AY:701:FUA:H122	1.73	0.70
25:CY:157:LEU:N	25:CY:157:LEU:HD23	2.03	0.70
36:BA:666:G:H4'	47:BP:49:ARG:NH2	2.06	0.70
57:DZ:153:SER:HB2	57:DZ:163:LEU:HD13	1.74	0.70
9:AI:114:TYR:HE2	10:AJ:60:ARG:H	1.36	0.70
51:BT:80:SER:HB3	51:BT:81:PRO:HD3	1.74	0.70
42:BG:144:ILE:HD11	42:BG:149:VAL:HB	1.72	0.70
39:DD:183:ARG:HG2	39:DD:183:ARG:NH1	2.06	0.70
10:AJ:61:GLU:OE2	14:AN:49:HIS:HE1	1.74	0.70
26:B0:14:ARG:NH1	26:B0:14:ARG:HB2	2.07	0.70
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.27	0.70
36:BA:1578:U:C2'	36:BA:1579:A:H5''	2.21	0.70
36:BA:1609:A:H1'	36:BA:1616:A:H1'	1.74	0.70
19:AS:44:MET:SD	19:AS:44:MET:N	2.65	0.70
36:BA:82:G:H5''	36:BA:296:C:H5'	1.74	0.70
50:BS:17:ARG:HA	50:BS:20:ARG:NH1	2.07	0.70
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.74	0.70
42:BG:145:THR:OG1	42:BG:148:MET:HB2	1.91	0.70
36:BA:1850:G:H5'	36:BA:1851:U:OP2	1.92	0.70
36:DA:657:U:H2'	36:DA:658:C:C6	2.27	0.70
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.71	0.70
36:DA:2241:A:H2'	36:DA:2242:G:C8	2.26	0.70
25:CY:101:LEU:HD13	25:CY:103:GLY:O	1.91	0.70
25:CY:90:PHE:HZ	59:CY:701:FUA:H121	1.55	0.70
31:B5:40:LYS:HE2	31:B5:46:CYS:HB3	1.73	0.70
36:BA:336:C:H4'	56:BY:7:VAL:HG21	1.74	0.70
45:BN:67:LEU:HB3	45:BN:88:GLU:HG2	1.72	0.70
39:DD:39:LYS:NZ	39:DD:87:ASN:HB3	2.07	0.70
28:D2:69:ARG:HG3	28:D2:70:GLN:N	2.06	0.70
27:D1:86:SER:O	27:D1:90:ILE:HG12	1.92	0.70
25:CY:36:THR:HB	25:CY:72:CYS:HB2	1.73	0.70
40:BE:179:GLU:HB3	40:BE:181:LEU:CD2	2.22	0.70
36:DA:2591:C:H2'	36:DA:2592:G:H8	1.57	0.70
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:84:VAL:HG11	11:CK:95:ILE:HD11	1.73	0.70
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.13	0.70
1:AA:1255:G:H2'	1:AA:1279:A:H62	1.56	0.70
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.06	0.70
36:DA:658:C:H2'	36:DA:659:C:C6	2.26	0.70
35:B9:18:ARG:O	35:B9:18:ARG:HG2	1.92	0.70
36:DA:1607:C:H4'	36:DA:1608:A:O5'	1.91	0.70
36:BA:742:G:O2'	36:BA:743:G:H5'	1.92	0.70
50:BS:52:SER:HB3	50:BS:55:ALA:HB3	1.72	0.70
47:DP:92:GLU:HG3	47:DP:93:GLY:H	1.56	0.70
4:CD:159:ARG:HH11	4:CD:159:ARG:HG3	1.55	0.70
25:AY:442:THR:HG23	25:AY:447:GLY:O	1.92	0.70
57:DZ:24:LEU:HD23	57:DZ:25:PRO:O	1.92	0.70
1:AA:434:U:H2'	1:AA:435:C:C6	2.27	0.70
1:AA:490:G:H2'	1:AA:491:G:H8	1.57	0.70
42:DG:101:ILE:O	42:DG:104:GLU:HB3	1.92	0.70
25:CY:90:PHE:HE2	59:CY:701:FUA:H9	1.56	0.70
25:CY:512:ILE:HG22	25:CY:567:LEU:HA	1.74	0.70
56:DY:96:ILE:HD12	56:DY:99:CYS:SG	2.31	0.70
53:BV:38:LEU:O	53:BV:39:LEU:HD13	1.92	0.70
57:BZ:59:LEU:O	57:BZ:66:SER:HA	1.91	0.70
49:BR:97:VAL:HG13	49:BR:114:VAL:HG22	1.74	0.70
23:CW:14:A:H3'	23:CW:15:G:C5'	2.15	0.70
36:BA:2287:A:N6	36:BA:2344:U:H3	1.88	0.70
36:BA:2103:C:H1'	36:BA:2187:G:H1	1.56	0.70
25:AY:404:VAL:N	25:AY:405:PRO:HD3	2.06	0.70
40:DE:36:ARG:NH2	40:DE:88:GLY:H	1.90	0.70
19:CS:58:VAL:HG23	19:CS:58:VAL:O	1.92	0.70
36:BA:2466:C:O2'	36:BA:2467:C:H5'	1.91	0.70
36:DA:82:G:H5''	36:DA:296:C:H5'	1.74	0.70
36:BA:16:G:O2'	36:BA:17:G:H5'	1.92	0.70
36:BA:1268:A:H2'	36:BA:1269:A:O4'	1.91	0.70
25:CY:613:PRO:HG2	25:CY:666:ARG:NH2	2.07	0.70
36:DA:49:A:H5''	36:DA:51:G:O4'	1.91	0.70
28:B2:32:LEU:HD11	28:B2:54:LYS:HG2	1.74	0.70
46:BO:26:LYS:HB3	46:BO:30:ALA:HB2	1.74	0.70
25:CY:21:ILE:HG21	25:CY:88:VAL:HG13	1.73	0.69
45:BN:45:ASN:N	45:BN:45:ASN:HD22	1.74	0.69
36:BA:1278:A:C5'	49:BR:36:THR:HG22	2.22	0.69
31:D5:46:CYS:SG	31:D5:47:PRO:HD2	2.32	0.69
49:DR:97:VAL:HG13	49:DR:114:VAL:HG22	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:453:GLY:HA3	25:AY:459:LEU:HD11	1.74	0.69
1:AA:268:C:O2	1:AA:268:C:H2'	1.92	0.69
46:BO:104:ARG:HE	51:BT:33:LYS:CE	2.04	0.69
25:AY:519:ARG:HH22	25:AY:678:GLU:CB	2.05	0.69
2:CB:12:GLU:HA	2:CB:16:HIS:ND1	2.07	0.69
43:DH:46:GLU:CD	43:DH:51:ARG:HB2	2.12	0.69
23:AW:51:C:C3'	23:AW:52:G:H5''	2.21	0.69
9:AI:18:PHE:O	9:AI:61:ALA:HA	1.92	0.69
25:AY:446:THR:O	25:AY:448:GLN:HG2	1.92	0.69
36:DA:419:C:H2'	36:DA:420:C:H6	1.55	0.69
1:CA:301:G:O2'	1:CA:302:G:H5'	1.92	0.69
36:DA:192:C:H2'	36:DA:193:U:H5'	1.72	0.69
36:BA:598:G:H5'	47:BP:15:ARG:HB2	1.73	0.69
36:DA:208:C:H2'	36:DA:209:C:H6	1.56	0.69
1:AA:677:U:H3	1:AA:713:G:H22	1.37	0.69
36:DA:1123:C:H2'	36:DA:1124:C:H6	1.57	0.69
23:CW:34:C:C2'	23:CW:35:A:C4'	2.70	0.69
25:AY:12:LEU:HB3	25:AY:283:PRO:HG2	1.74	0.69
25:CY:489:LYS:HD3	25:CY:598:ASP:OD1	1.91	0.69
25:CY:546:ILE:O	25:CY:550:MET:HG3	1.91	0.69
50:BS:98:VAL:HG12	50:BS:100:ALA:H	1.55	0.69
36:DA:1203:G:H3'	36:DA:1204:A:H5''	1.74	0.69
36:DA:1203:G:H4'	47:DP:7:ARG:HD2	1.74	0.69
51:DT:16:ARG:HD2	51:DT:18:ASP:OD1	1.93	0.69
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.22	0.69
39:BD:183:ARG:HG2	39:BD:183:ARG:NH1	2.05	0.69
18:CR:45:SER:H	18:CR:51:LEU:HG	1.58	0.69
36:DA:2244:U:O2	36:DA:2434:A:H2'	1.91	0.69
17:AQ:58:GLU:HB2	17:AQ:74:LEU:HB3	1.73	0.69
1:AA:160:A:H1'	1:AA:344:A:C5	2.27	0.69
36:DA:608:A:H2'	36:DA:609:A:C8	2.27	0.69
1:CA:473:G:H2'	1:CA:474:G:H8	1.56	0.69
51:BT:113:LYS:O	51:BT:114:LEU:HD23	1.92	0.69
36:BA:991:C:H6	36:BA:991:C:H5'	1.56	0.69
38:DC:50:ILE:HD12	38:DC:57:GLN:O	1.92	0.69
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.74	0.69
36:BA:2645:G:C3'	36:BA:2646:C:H5'	2.15	0.69
13:AM:69:GLU:HG2	30:B4:43:TYR:HH	1.57	0.69
36:BA:272(H):C:H2'	36:BA:272(I):U:H5'	1.72	0.69
31:D5:50:GLY:HA2	31:D5:56:LYS:HB3	1.73	0.69
36:DA:272(H):C:H2'	36:DA:272(I):U:H5'	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:134:ILE:HD12	40:DE:134:ILE:N	2.07	0.69
36:BA:1494:A:H2'	36:BA:1495:A:H5''	1.74	0.69
51:BT:46:GLU:O	51:BT:65:LYS:HD2	1.92	0.69
1:CA:1459:C:H2'	1:CA:1460:A:C8	2.27	0.69
1:AA:266:G:H5''	1:AA:266:G:C8	2.26	0.69
54:BW:22:ASP:HA	54:BW:25:ARG:NH1	2.07	0.69
57:BZ:42:VAL:HG13	57:BZ:43:GLU:H	1.57	0.69
15:CO:33:THR:HG21	15:CO:85:LEU:CD2	2.21	0.69
36:DA:1609:A:H1'	36:DA:1616:A:H1'	1.74	0.69
22:AV:64:A:H2'	22:AV:65:G:C8	2.27	0.69
36:DA:975(A):G:O2'	36:DA:976:C:H5'	1.92	0.69
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.07	0.69
22:CV:15:G:H3'	22:CV:16:U:H5''	1.73	0.69
25:AY:628:ARG:HH12	25:AY:680:PRO:HG2	1.56	0.69
36:BA:2244:U:O2	36:BA:2434:A:H2'	1.91	0.69
45:BN:46:VAL:HG13	45:BN:47:ALA:N	2.08	0.69
3:CC:50:ALA:O	3:CC:70:VAL:HG13	1.91	0.69
36:BA:1846:G:H5'	36:BA:1846:G:C8	2.20	0.69
36:BA:272(J):C:H5'	36:BA:274:G:OP1	1.91	0.69
2:AB:223:ILE:HG23	2:AB:226:ARG:NH1	2.08	0.69
1:AA:1489:G:C3'	1:AA:1490:C:H5''	2.23	0.69
23:CW:7:G:H3'	23:CW:8:U:C5'	2.22	0.69
25:AY:512:ILE:H	25:AY:512:ILE:HD13	1.57	0.69
27:B1:46:LEU:N	27:B1:46:LEU:HD13	2.06	0.69
36:DA:2876:G:H4'	51:DT:3:ARG:NE	2.07	0.69
9:AI:53:VAL:HG13	9:AI:95:LYS:HE3	1.73	0.69
19:AS:58:VAL:HG23	19:AS:58:VAL:O	1.91	0.69
57:DZ:130:PRO:HA	57:DZ:133:ILE:HD11	1.72	0.69
36:BA:296:C:O2'	36:BA:297:C:H5'	1.91	0.69
36:DA:782:A:C2	39:DD:226:MET:HG2	2.28	0.69
36:DA:528:A:H2	36:DA:2043:C:C5'	2.05	0.69
28:B2:13:ALA:HA	28:B2:16:LEU:CD1	2.23	0.69
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.58	0.69
24:CX:16:U:H2'	24:CX:17:U:H5'	1.74	0.69
25:CY:100:VAL:HG22	25:CY:329:ARG:HB2	1.74	0.69
25:AY:84:THR:N	25:AY:85:PRO:CD	2.49	0.69
25:CY:509:HIS:HE1	25:CY:511:LYS:HE3	1.56	0.69
32:D6:30:THR:O	32:D6:32:ASN:N	2.24	0.69
39:BD:39:LYS:NZ	39:BD:87:ASN:HB3	2.07	0.69
36:DA:1301:A:HO2'	36:DA:1302:A:H2'	1.58	0.69
25:CY:605:ILE:HG21	25:CY:646:PHE:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1432:G:OP1	51:BT:107:ASP:HB2	1.92	0.69
46:DO:104:ARG:HE	51:DT:33:LYS:CE	2.06	0.69
47:DP:40:SER:C	47:DP:41:ARG:HD2	2.12	0.69
36:DA:861:A:H2'	36:DA:862:G:O4'	1.92	0.69
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.74	0.69
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.58	0.69
43:DH:20:ALA:HB1	43:DH:21:PRO:CD	2.23	0.69
36:BA:2575:C:H2'	36:BA:2578:G:O6	1.91	0.69
37:DB:77:U:O2'	37:DB:78:A:H5'	1.93	0.69
38:BC:50:ILE:HD12	38:BC:57:GLN:O	1.93	0.69
36:BA:2804:C:H2'	36:BA:2805:G:C8	2.27	0.69
50:DS:17:ARG:HA	50:DS:20:ARG:NH1	2.08	0.69
36:BA:608:A:H2'	36:BA:609:A:C8	2.27	0.69
22:CV:35:A:O2'	22:CV:36:A:H5'	1.92	0.69
36:BA:320:A:H4'	36:BA:322:A:C8	2.27	0.69
36:DA:2012:G:C4'	54:DW:96:ILE:HD11	2.11	0.69
50:DS:36:TYR:N	50:DS:36:TYR:CD1	2.58	0.69
32:D6:15:GLU:OE2	32:D6:20:ASN:ND2	2.25	0.69
36:BA:1038:C:C3'	36:BA:1039:G:H5''	2.22	0.69
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.73	0.69
47:BP:40:SER:C	47:BP:41:ARG:HD2	2.13	0.69
10:CJ:9:ARG:HG2	10:CJ:69:ASN:OD1	1.93	0.69
16:AP:21:VAL:O	16:AP:33:ILE:HB	1.93	0.69
25:AY:35:TYR:HE2	25:AY:269:VAL:HB	1.56	0.69
41:BF:132:VAL:HG22	41:BF:133:ASN:N	2.06	0.69
36:BA:583:G:H2'	36:BA:584:C:H6	1.56	0.69
36:DA:1578:U:C2'	36:DA:1579:A:H5''	2.22	0.69
49:BR:87:TYR:C	49:BR:89:ASP:H	1.94	0.69
25:AY:352:VAL:HG23	25:AY:377:VAL:HG23	1.72	0.69
36:BA:2815:C:H2'	36:BA:2816:C:H6	1.57	0.69
6:CF:42:GLU:O	6:CF:44:GLY:N	2.24	0.69
36:BA:467:G:O2'	36:BA:468:G:H5'	1.93	0.69
36:DA:1268:A:H2'	36:DA:1269:A:O4'	1.92	0.69
37:BB:106:G:C5'	57:BZ:31:ARG:HB3	2.22	0.69
53:BV:6:LYS:O	53:BV:37:VAL:HG21	1.92	0.69
49:DR:51:LEU:HD12	49:DR:51:LEU:H	1.57	0.69
35:B9:36:GLN:OE1	36:BA:1124:C:H1'	1.92	0.69
38:DC:211:ARG:HG3	38:DC:211:ARG:HH11	1.57	0.69
20:AT:42:GLN:HE21	20:AT:42:GLN:HA	1.56	0.69
36:BA:1138:G:H2'	36:BA:1139:G:O4'	1.93	0.69
42:DG:57:ALA:HA	42:DG:90:LEU:HD21	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.93	0.69
32:B6:8:LYS:NZ	36:BA:2285:C:H5	1.87	0.69
25:AY:466:LEU:HA	25:AY:470:PHE:HD2	1.57	0.69
20:AT:48:LYS:HB3	20:AT:51:GLU:CG	2.21	0.69
20:CT:33:ILE:HD13	20:CT:63:ILE:HA	1.72	0.69
36:BA:1782:C:H2'	36:BA:1783:A:H5'	1.75	0.69
1:CA:1151:A:HO2'	1:CA:1152:A:H8	1.41	0.69
19:CS:42:PRO:HB3	30:D4:50:VAL:HG21	1.73	0.69
36:DA:583:G:H2'	36:DA:584:C:H6	1.58	0.69
10:CJ:61:GLU:OE2	14:CN:49:HIS:HE1	1.75	0.69
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.58	0.69
38:BC:139:PRO:HA	38:BC:145:THR:HG21	1.74	0.69
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.74	0.69
54:BW:1:MET:CE	54:BW:2:GLU:H	2.06	0.69
28:B2:2:LYS:CB	36:BA:97:C:H5''	2.23	0.69
36:DA:2801(A):A:H4'	36:DA:2802:G:C8	2.27	0.69
56:BY:95:LYS:HE2	56:BY:101:LYS:H	1.57	0.69
1:CA:477:A:O2'	1:CA:479:C:H5'	1.92	0.69
36:BA:1754:C:OP1	51:BT:96:ARG:NH1	2.25	0.69
1:AA:748:C:H6	1:AA:748:C:OP2	1.75	0.69
1:AA:461:A:O2'	1:AA:470:C:H5'	1.93	0.69
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.75	0.69
1:CA:748:C:OP2	1:CA:748:C:H6	1.76	0.69
50:BS:51:ALA:HB3	50:BS:73:LEU:HB2	1.74	0.69
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.58	0.69
11:AK:108:ILE:N	11:AK:108:ILE:HD12	2.07	0.69
38:BC:118:PRO:HB2	38:BC:148:PHE:CZ	2.27	0.69
42:DG:37:VAL:HG22	42:DG:159:VAL:HA	1.75	0.69
25:CY:112:GLN:CG	25:CY:115:GLU:HB3	2.22	0.69
25:CY:546:ILE:HG23	25:CY:590:ILE:CG1	2.21	0.69
53:BV:19:LYS:NZ	53:BV:20:LEU:H	1.89	0.69
48:BQ:27:VAL:HG21	48:BQ:134:ARG:HG2	1.73	0.69
50:DS:97:ARG:HH21	50:DS:98:VAL:HA	1.57	0.69
45:BN:67:LEU:HB3	45:BN:88:GLU:CG	2.23	0.69
3:CC:154:SER:O	3:CC:165:THR:HA	1.91	0.69
25:AY:605:ILE:HG23	25:AY:646:PHE:HB3	1.74	0.69
32:B6:13:CYS:HA	32:B6:50:ARG:O	1.93	0.69
25:CY:627:ARG:HD3	25:CY:652:MET:HE3	1.75	0.69
51:DT:90:GLN:O	51:DT:92:GLY:N	2.26	0.69
47:DP:7:ARG:CB	47:DP:8:PRO:HD3	2.22	0.69
25:AY:509:HIS:CE1	25:AY:570:GLY:HA2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:50:ARG:O	47:BP:57:THR:HG22	1.92	0.69
36:BA:2893:G:H5'	36:BA:2894:G:H5'	1.73	0.69
51:BT:45:PHE:CE2	51:BT:74:ARG:HB2	2.27	0.69
9:CI:18:PHE:O	9:CI:61:ALA:HA	1.93	0.69
9:CI:8:GLY:HA2	9:CI:79:LEU:HD12	1.74	0.69
51:BT:132:LYS:N	51:BT:132:LYS:HD3	2.07	0.69
40:BE:200:GLU:N	40:BE:200:GLU:OE1	2.26	0.69
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.75	0.69
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.74	0.69
36:BA:545:C:C3'	36:BA:547:A:H5''	2.23	0.69
39:DD:79:VAL:O	39:DD:113:VAL:HG13	1.92	0.69
36:DA:622:G:O2'	36:DA:623:G:H5'	1.93	0.69
51:DT:13:ARG:NH1	51:DT:13:ARG:HA	2.08	0.69
36:DA:545:C:C3'	36:DA:547:A:H5''	2.23	0.69
52:DU:55:ARG:HA	52:DU:58:ARG:CG	2.22	0.69
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.07	0.69
9:CI:47:LEU:CD1	9:CI:47:LEU:H	2.05	0.69
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.57	0.69
50:DS:65:VAL:O	50:DS:69:VAL:HG12	1.93	0.69
36:DA:1678:G:H22	36:DA:1989:G:H22	1.39	0.69
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.56	0.69
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.22	0.69
42:BG:131:TYR:CE2	42:BG:133:LEU:HB3	2.28	0.69
51:DT:98:LYS:HB3	51:DT:100:TYR:CE1	2.28	0.69
1:AA:491:G:H2'	1:AA:492:G:H8	1.57	0.69
1:AA:243:A:H4'	1:AA:244:U:O5'	1.91	0.69
1:CA:250:A:H4'	1:CA:251:G:O5'	1.92	0.69
1:AA:740:U:O2'	1:AA:741:G:H5'	1.93	0.69
25:CY:293:THR:HA	25:CY:397:VAL:HG12	1.74	0.69
9:CI:46:ALA:O	9:CI:49:PRO:HD2	1.91	0.69
1:CA:1009:G:H2'	1:CA:1009:G:N3	2.08	0.69
37:BB:103:G:H5'	37:BB:104:U:OP2	1.92	0.69
27:B1:71:TYR:HA	27:B1:74:VAL:HG23	1.74	0.69
49:DR:4:LEU:O	49:DR:4:LEU:HD13	1.93	0.69
36:DA:525:U:O2'	36:DA:526:A:H5''	1.93	0.69
49:BR:51:LEU:H	49:BR:51:LEU:HD12	1.57	0.69
42:BG:171:ALA:O	42:BG:175:LEU:HG	1.92	0.69
36:DA:16:G:O2'	36:DA:17:G:H5'	1.92	0.69
36:BA:1390:U:O2'	36:BA:1391:U:H5'	1.93	0.69
36:DA:271(Z):C:H1'	36:DA:272(C):G:H1'	1.75	0.69
36:BA:1322:A:OP1	54:BW:11:ARG:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.75	0.69
36:DA:320:A:H2'	41:DF:136:THR:OG1	1.93	0.69
10:CJ:82:ILE:O	10:CJ:86:MET:HB2	1.93	0.69
41:DF:8:GLN:CB	41:DF:126:VAL:HA	2.19	0.69
1:AA:793:U:O2	1:AA:1516:G:H4'	1.93	0.69
25:AY:180:VAL:HG23	25:AY:181:LEU:N	2.08	0.69
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.22	0.69
1:CA:268:C:O2	1:CA:268:C:H2'	1.92	0.69
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.08	0.69
47:BP:23:PRO:HB2	47:BP:33:ARG:CG	2.22	0.69
36:BA:2396:G:O2'	36:BA:2397:G:H5'	1.93	0.69
39:DD:44:ASN:HB2	39:DD:48:ARG:O	1.92	0.69
39:BD:145:VAL:HG22	39:BD:191:ALA:HB1	1.74	0.69
36:DA:614(A):U:H5''	36:DA:614(B):G:OP2	1.93	0.69
36:BA:1607:C:H4'	36:BA:1608:A:O5'	1.93	0.69
18:CR:88:LYS:HD3	18:CR:88:LYS:C	2.13	0.69
54:BW:109:GLU:CD	54:BW:109:GLU:H	1.96	0.69
36:BA:1114:G:H2'	36:BA:1115:G:H5'	1.74	0.69
36:BA:657:U:H2'	36:BA:658:C:C6	2.28	0.69
36:BA:2801(A):A:H4'	36:BA:2802:G:C8	2.28	0.69
25:CY:424:LEU:O	25:CY:428:LEU:HD23	1.93	0.69
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.74	0.69
36:DA:781:A:H2'	36:DA:1777:U:O2'	1.93	0.69
36:DA:2804:C:H2'	36:DA:2805:G:C8	2.27	0.69
36:BA:2126:A:H4'	36:BA:2127:G:O5'	1.92	0.69
23:AW:34:C:C2'	23:AW:35:A:C4'	2.70	0.69
25:AY:111:SER:O	25:AY:113:GLY:N	2.25	0.69
36:DA:1884:A:H2'	36:DA:1885:A:C5'	2.11	0.69
32:D6:27:LYS:HD2	32:D6:30:THR:HB	1.75	0.69
36:BA:363(B):G:H2'	36:BA:363(C):G:H8	1.58	0.69
36:DA:84:A:H5''	56:DY:9:LYS:HZ2	1.57	0.69
32:B6:15:GLU:OE2	32:B6:44:ARG:NH2	2.23	0.69
31:D5:4:HIS:CB	31:D5:5:PRO:HD3	2.23	0.69
25:CY:608:VAL:O	25:CY:644:ARG:HA	1.93	0.69
36:DA:1494:A:H2'	36:DA:1495:A:H5''	1.74	0.69
1:CA:266:G:C8	1:CA:266:G:H5''	2.28	0.69
41:DF:132:VAL:HG22	41:DF:133:ASN:N	2.07	0.69
20:CT:64:ASP:OD1	20:CT:81:LYS:HD2	1.93	0.69
40:DE:36:ARG:HH21	40:DE:88:GLY:CA	2.06	0.69
30:B4:16:CYS:SG	30:B4:17:GLY:N	2.66	0.69
26:D0:51:VAL:HG21	26:D0:79:VAL:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:666:G:H5'	1:AA:726:C:H1'	1.74	0.69
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.28	0.69
1:AA:1109:C:O2'	1:AA:1110:A:H5'	1.91	0.69
36:DA:991:C:H5'	36:DA:991:C:H6	1.57	0.69
36:BA:848:G:N3	36:BA:933:A:H1'	2.08	0.69
1:AA:301:G:O2'	1:AA:302:G:H5'	1.93	0.69
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.93	0.69
36:DA:2126:A:H4'	36:DA:2127:G:O5'	1.93	0.69
2:AB:156:LYS:O	2:AB:157:ARG:HB2	1.93	0.69
1:AA:270:A:H2'	1:AA:271:C:C6	2.28	0.69
25:AY:113:GLY:C	25:AY:115:GLU:H	1.97	0.68
25:CY:487:ILE:CD1	25:CY:563:ILE:HG22	2.22	0.68
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG23	1.72	0.68
32:D6:15:GLU:OE2	32:D6:44:ARG:NH2	2.26	0.68
1:CA:1459:C:H2'	1:CA:1460:A:H8	1.58	0.68
20:AT:50:GLU:HA	20:AT:53:LEU:HD12	1.74	0.68
31:D5:33:CYS:HG	31:D5:49:CYS:HG	1.38	0.68
5:CE:148:VAL:HG21	8:CH:107:LEU:HD22	1.75	0.68
40:BE:36:ARG:HH21	40:BE:88:GLY:CA	2.06	0.68
36:BA:286:C:H2'	36:BA:287:C:C6	2.28	0.68
36:DA:1959:G:C3'	36:DA:1960:A:H5''	2.23	0.68
36:BA:1959:G:C3'	36:BA:1960:A:H5''	2.23	0.68
1:AA:736:C:H2'	1:AA:737:A:H8	1.57	0.68
34:B8:6:THR:HG22	34:B8:63:PRO:HD3	1.74	0.68
22:CV:5:G:O2'	22:CV:6:G:H5'	1.93	0.68
36:BA:2753:A:O2'	36:BA:2754:U:H5'	1.93	0.68
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.75	0.68
36:DA:2815:C:H2'	36:DA:2816:C:H6	1.57	0.68
36:DA:296:C:O2'	36:DA:297:C:H5'	1.93	0.68
36:BA:1534:U:H2'	36:BA:1535:A:O4'	1.93	0.68
36:BA:49:A:H5''	36:BA:51:G:O4'	1.94	0.68
1:CA:1016:A:H2'	1:CA:1017:G:O4'	1.91	0.68
1:AA:250:A:H4'	1:AA:251:G:O5'	1.93	0.68
1:AA:1400:C:H5'	24:AX:18:C:N4	2.09	0.68
42:DG:133:LEU:HD12	42:DG:157:ILE:HB	1.76	0.68
36:DA:320:A:H4'	36:DA:322:A:C8	2.28	0.68
41:DF:17:ARG:HH11	41:DF:17:ARG:HG3	1.58	0.68
47:DP:23:PRO:HB2	47:DP:33:ARG:CG	2.22	0.68
34:D8:33:ASN:N	34:D8:36:LYS:HD2	2.09	0.68
36:BA:240:G:C3'	36:BA:241:A:H5''	2.20	0.68
28:B2:3:LEU:HD12	36:BA:98:G:H5''	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:164:MET:O	25:AY:180:VAL:HG22	1.93	0.68
25:AY:260:LEU:O	25:AY:268:GLY:HA3	1.93	0.68
51:BT:90:GLN:O	51:BT:92:GLY:N	2.26	0.68
51:DT:46:GLU:O	51:DT:65:LYS:HD2	1.93	0.68
36:DA:2762:G:H8	36:DA:2762:G:H5'	1.57	0.68
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.58	0.68
25:AY:196:ILE:CG1	25:AY:197:ARG:H	2.04	0.68
4:AD:173:TRP:HB3	4:AD:187:ARG:NH1	2.08	0.68
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.23	0.68
51:DT:132:LYS:HD3	51:DT:132:LYS:N	2.07	0.68
26:B0:14:ARG:HH11	26:B0:14:ARG:HB2	1.58	0.68
9:AI:95:LYS:HZ2	9:AI:96:LEU:HD13	1.58	0.68
34:D8:61:LEU:HD12	34:D8:62:LEU:H	1.58	0.68
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	1.93	0.68
40:BE:14:ILE:HD11	40:BE:173:VAL:HG11	1.75	0.68
36:DA:1223:G:H5'	36:DA:1224:C:OP2	1.94	0.68
36:BA:2636:U:H4'	40:BE:80:GLU:OE1	1.94	0.68
1:CA:160:A:H1'	1:CA:344:A:C5	2.29	0.68
1:AA:1009:G:N3	1:AA:1009:G:H2'	2.07	0.68
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.28	0.68
1:CA:60:A:H5''	1:CA:331:G:H22	1.58	0.68
1:CA:666:G:H5'	1:CA:726:C:H1'	1.76	0.68
44:DJ:26:UNK:HA	44:DJ:84:UNK:HA	1.75	0.68
36:BA:2415:G:O3'	47:BP:66:GLY:HA3	1.93	0.68
36:DA:1322:A:OP1	54:DW:11:ARG:HG3	1.93	0.68
1:CA:740:U:O2'	1:CA:741:G:H5'	1.94	0.68
45:BN:109:LYS:H	45:BN:109:LYS:CE	2.06	0.68
36:DA:120:U:O2	36:DA:120:U:H2'	1.94	0.68
9:CI:112:LYS:CA	9:CI:119:ALA:HB2	2.11	0.68
3:AC:50:ALA:O	3:AC:70:VAL:HG13	1.92	0.68
29:B3:8:LEU:HD22	29:B3:31:LEU:CD2	2.23	0.68
32:B6:5:VAL:O	32:B6:8:LYS:HB3	1.94	0.68
36:DA:272(J):C:H5'	36:DA:274:G:OP1	1.93	0.68
25:AY:180:VAL:CG2	25:AY:216:LEU:HD12	2.23	0.68
25:AY:409:ILE:CG1	25:AY:656:ALA:HB3	2.23	0.68
31:B5:3:LYS:NZ	36:BA:2613:U:H2'	2.08	0.68
1:CA:266:G:H8	1:CA:266:G:H5''	1.57	0.68
20:CT:50:GLU:HA	20:CT:53:LEU:HD12	1.74	0.68
51:BT:129:ARG:NH1	51:BT:130:ALA:HA	2.07	0.68
23:CW:31:G:H5'	23:CW:31:G:H8	1.58	0.68
51:DT:129:ARG:NH1	51:DT:130:ALA:HA	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2753:A:O2'	36:DA:2754:U:H5'	1.93	0.68
49:DR:78:LYS:O	49:DR:78:LYS:HG2	1.93	0.68
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.74	0.68
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.93	0.68
40:BE:11:MET:HB2	40:BE:23:VAL:O	1.93	0.68
36:DA:2248:C:C2'	36:DA:2249:U:H5'	2.24	0.68
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.28	0.68
6:CF:63:TYR:O	6:CF:65:VAL:HG13	1.93	0.68
36:DA:1430:C:H2'	36:DA:1431:U:C6	2.28	0.68
36:BA:1649:G:O2'	36:BA:1650:G:H5'	1.93	0.68
36:BA:1794:U:O2'	36:BA:1795:C:H5'	1.94	0.68
36:DA:1114:G:H2'	36:DA:1115:G:H5'	1.73	0.68
25:CY:34:TYR:O	25:CY:38:ARG:HB2	1.93	0.68
42:DG:34:LEU:HD11	42:DG:100:TRP:CZ2	2.27	0.68
57:DZ:10:ARG:HH21	57:DZ:26:GLY:N	1.90	0.68
31:B5:46:CYS:SG	31:B5:47:PRO:HD2	2.34	0.68
28:B2:3:LEU:CD2	28:B2:7:ARG:HH12	2.06	0.68
39:BD:35:LYS:HG2	39:BD:62:TYR:O	1.93	0.68
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	2.02	0.68
31:B5:3:LYS:HG2	36:BA:747:U:C5	2.28	0.68
28:D2:36:ARG:HA	28:D2:39:ALA:HB3	1.75	0.68
36:BA:154(A):C:C5'	36:BA:155:U:H5''	2.21	0.68
36:DA:806:C:OP2	47:DP:39:LYS:HD3	1.92	0.68
36:DA:1658:C:H2'	36:DA:1659:U:H6	1.58	0.68
25:AY:149:VAL:HA	25:AY:152:THR:HG22	1.76	0.68
36:DA:582:G:H2'	36:DA:583:G:C8	2.28	0.68
31:B5:19:ARG:HA	36:BA:2046:G:C5'	2.23	0.68
31:D5:25:LEU:HD12	54:DW:19:LEU:HB3	1.76	0.68
26:B0:10:THR:HG22	26:B0:11:ARG:N	2.08	0.68
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.29	0.68
25:CY:343:ASN:OD1	25:CY:346:LYS:HB2	1.94	0.68
40:DE:11:MET:HB2	40:DE:23:VAL:O	1.93	0.68
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.23	0.68
36:BA:848:G:O6	36:BA:928:G:H2'	1.92	0.68
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.93	0.68
13:AM:27:LYS:HE2	13:AM:31:LYS:HE3	1.76	0.68
36:DA:2415:G:O3'	47:DP:66:GLY:HA3	1.93	0.68
14:CN:53:LEU:HB3	14:CN:56:VAL:HG21	1.74	0.68
36:BA:1223:G:H5'	36:BA:1224:C:OP2	1.93	0.68
36:BA:1963:U:H2'	36:BA:1963:U:O2	1.93	0.68
40:DE:81:ILE:O	40:DE:81:ILE:HG22	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:447:G:H2'	1:AA:485:G:N2	2.08	0.68
30:D4:28:LYS:HA	30:D4:28:LYS:HE3	1.75	0.68
42:DG:153:ARG:HB3	42:DG:153:ARG:HH11	1.57	0.68
25:CY:553:GLY:HA2	25:CY:560:VAL:CG2	2.22	0.68
56:DY:28:LYS:O	56:DY:38:ILE:HG22	1.92	0.68
55:DX:35:THR:HB	55:DX:38:GLU:CB	2.21	0.68
45:BN:62:VAL:HG22	45:BN:66:LYS:HG3	1.74	0.68
36:BA:1203:G:H4'	47:BP:7:ARG:HD2	1.76	0.68
36:BA:2394:C:OP1	47:BP:63:PRO:HD2	1.93	0.68
13:CM:9:ILE:HD13	42:DG:146:TYR:CZ	2.29	0.68
40:BE:36:ARG:NH2	40:BE:88:GLY:H	1.91	0.68
40:DE:200:GLU:OE1	40:DE:200:GLU:N	2.27	0.68
43:BH:20:ALA:HB1	43:BH:21:PRO:CD	2.23	0.68
8:CH:41:ARG:HH22	8:CH:123:GLU:CD	1.96	0.68
36:BA:2389:G:H5''	36:BA:2390:U:H5'	1.74	0.68
25:CY:484:ARG:HD2	25:CY:559:PRO:HB2	1.76	0.68
37:DB:15:A:H3'	37:DB:16:G:H5'	1.75	0.68
36:DA:654(G):C:H2'	36:DA:654(H):G:H8	1.59	0.68
6:AF:42:GLU:O	6:AF:44:GLY:N	2.27	0.68
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.08	0.68
50:DS:64:GLU:CD	50:DS:64:GLU:H	1.96	0.68
25:CY:381:LYS:N	25:CY:381:LYS:HD2	2.09	0.68
50:BS:64:GLU:H	50:BS:64:GLU:CD	1.97	0.68
25:CY:616:TYR:HE2	25:CY:664:GLN:HE21	1.42	0.68
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.75	0.68
36:BA:2784:C:H1'	40:BE:37:ARG:HH12	1.57	0.68
40:BE:133:LYS:N	40:BE:134:ILE:HD12	2.08	0.68
25:AY:227:ILE:HG23	25:AY:237:PRO:CG	2.24	0.68
47:BP:84:ASN:C	47:BP:86:LYS:H	1.96	0.68
13:CM:9:ILE:HD13	42:DG:146:TYR:CE2	2.29	0.68
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.09	0.68
1:CA:719:C:O2'	18:CR:49:LYS:HB3	1.94	0.68
31:B5:19:ARG:HD2	36:BA:1266:G:OP1	1.93	0.68
20:CT:93:GLU:C	20:CT:95:ALA:H	1.96	0.68
26:D0:10:THR:HG22	26:D0:11:ARG:N	2.08	0.68
19:CS:41:VAL:C	19:CS:43:GLU:H	1.97	0.68
4:CD:144:ASP:O	4:CD:184:LYS:HA	1.93	0.68
36:DA:2146:C:H4'	36:DA:2147:G:C8	2.28	0.68
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.09	0.68
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.58	0.68
25:AY:628:ARG:HE	25:AY:648:PRO:HG2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:7:ILE:O	12:AL:11:VAL:HG23	1.92	0.68
25:CY:400:GLU:O	25:CY:402:ILE:HG13	1.94	0.68
33:D7:8:ASN:HD22	33:D7:9:ARG:N	1.91	0.68
36:BA:120:U:H2'	36:BA:120:U:O2	1.92	0.68
42:DG:5:VAL:HG12	42:DG:7:LEU:H	1.59	0.68
59:CY:701:FUA:H12	59:CY:701:FUA:O1	1.93	0.68
45:BN:9:VAL:HG11	45:BN:39:ARG:NH2	2.00	0.68
55:BX:35:THR:HB	55:BX:38:GLU:CB	2.21	0.68
56:DY:25:GLY:HA3	56:DY:39:VAL:CG1	2.24	0.68
36:DA:272(J):C:N4	36:DA:363:G:H22	1.91	0.68
31:D5:3:LYS:HG2	36:DA:747:U:C5	2.28	0.68
45:DN:67:LEU:HB3	45:DN:88:GLU:HG2	1.75	0.68
36:BA:28:A:N6	36:BA:512:G:H1'	2.08	0.68
25:AY:431:LEU:CD2	25:AY:466:LEU:HD13	2.23	0.68
27:B1:57:GLU:HG2	27:B1:58:ILE:H	1.59	0.68
1:CA:148:G:H1	1:CA:174:C:H42	1.41	0.68
27:B1:44:PRO:HG2	27:B1:46:LEU:HD11	1.75	0.68
42:BG:82:LEU:HD22	42:BG:87:PRO:HB3	1.74	0.68
51:DT:132:LYS:HG2	51:DT:133:GLU:H	1.59	0.68
36:DA:1947:C:C2'	36:DA:1948:G:H5''	2.24	0.68
52:BU:53:ARG:HA	52:BU:56:ASP:OD2	1.92	0.68
36:BA:2146:C:H4'	36:BA:2147:G:C8	2.29	0.68
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.29	0.68
4:CD:61:LYS:HE2	4:CD:62:GLN:HE21	1.58	0.68
6:AF:2:ARG:HD3	6:AF:92:LYS:HE3	1.76	0.68
51:DT:113:LYS:O	51:DT:114:LEU:HD23	1.93	0.68
43:DH:68:THR:O	43:DH:72:ILE:HG12	1.94	0.68
25:CY:335:LEU:O	25:CY:368:GLU:HA	1.94	0.68
36:DA:1386:C:H2'	36:DA:1387:C:H6	1.57	0.68
39:BD:226:MET:HB3	39:BD:230:ASP:HB2	1.76	0.68
25:CY:100:VAL:HG22	25:CY:329:ARG:CB	2.24	0.68
25:CY:411:VAL:HG23	25:CY:459:LEU:HD22	1.76	0.68
43:BH:12:PRO:CD	43:BH:49:VAL:HG12	2.19	0.68
1:CA:1404:C:H1'	1:CA:1499:A:C2	2.29	0.68
42:BG:34:LEU:HA	42:BG:161:THR:HA	1.76	0.68
45:BN:18:ALA:HB1	45:BN:21:LYS:HB2	1.74	0.68
32:D6:14:THR:O	32:D6:49:HIS:HA	1.94	0.68
32:D6:13:CYS:HA	32:D6:50:ARG:O	1.94	0.68
27:B1:58:ILE:HD11	27:B1:91:LYS:HB2	1.75	0.68
36:BA:2069:G:O2'	36:BA:2070:G:H5'	1.94	0.68
28:D2:35:LEU:HD11	28:D2:49:LYS:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:267:C:H2'	1:AA:268:C:H6	1.59	0.68
28:D2:69:ARG:HH22	36:DA:111:A:H5''	1.58	0.68
36:BA:2258:C:O2'	36:BA:2426:A:H4'	1.94	0.68
43:BH:16:SER:CB	43:BH:27:LYS:HB2	2.24	0.68
39:BD:79:VAL:O	39:BD:113:VAL:HG13	1.93	0.68
36:DA:739:G:H4'	36:DA:740:U:OP1	1.93	0.68
54:DW:5:ALA:O	54:DW:6:ILE:HB	1.94	0.68
50:BS:20:ARG:NE	50:BS:20:ARG:HA	2.07	0.68
22:CV:61:C:H2'	22:CV:62:C:H6	1.59	0.68
1:CA:781:A:H4'	1:CA:1522:U:O2'	1.93	0.68
49:DR:11:ASN:OD1	49:DR:12:ARG:N	2.26	0.68
16:AP:9:PHE:CE2	16:AP:18:ARG:CZ	2.77	0.68
36:DA:2122:U:H2'	36:DA:2123:G:C8	2.29	0.68
34:D8:8:LYS:HE3	36:DA:245:G:O6	1.94	0.68
54:BW:10:VAL:HG23	54:BW:101:SER:O	1.93	0.68
42:DG:86:MET:N	42:DG:87:PRO:HD3	2.08	0.68
36:DA:363(B):G:H2'	36:DA:363(C):G:H8	1.58	0.68
25:CY:655:TYR:CE1	25:CY:659:LEU:HB2	2.29	0.68
51:BT:24:PRO:HD3	51:BT:52:ILE:HD12	1.75	0.68
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.76	0.68
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.75	0.68
9:AI:114:TYR:HD2	10:AJ:60:ARG:HG3	1.59	0.68
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.75	0.68
20:AT:33:ILE:HD13	20:AT:63:ILE:HA	1.76	0.68
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.08	0.68
25:AY:519:ARG:CZ	25:AY:678:GLU:H	2.06	0.68
36:DA:2258:C:O2'	36:DA:2426:A:H4'	1.94	0.68
36:BA:582:G:H2'	36:BA:583:G:C8	2.28	0.68
34:B8:61:LEU:HD12	34:B8:62:LEU:H	1.58	0.68
36:BA:1942:C:H3'	36:BA:1943:U:H5''	1.75	0.68
50:DS:34:HIS:HB3	50:DS:53:SER:HB3	1.75	0.68
36:DA:2575:C:H2'	36:DA:2578:G:O6	1.93	0.68
12:CL:117:ARG:NH2	12:CL:124:LYS:HB2	2.08	0.68
28:B2:12:GLU:O	28:B2:16:LEU:HG	1.94	0.68
1:CA:664:G:H22	1:CA:741:G:H1	1.41	0.68
1:AA:241:C:O2'	1:AA:242:C:H5'	1.92	0.68
1:AA:545:C:O2'	1:AA:546:G:H5'	1.94	0.68
36:BA:1259:G:O2'	36:BA:1260:G:H5'	1.93	0.68
36:DA:1842:G:H2'	36:DA:1843:C:C6	2.29	0.68
57:DZ:185:GLU:O	57:DZ:187:ALA:N	2.27	0.68
36:DA:1534:U:H2'	36:DA:1535:A:O4'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:77:U:O2'	37:BB:78:A:H5'	1.93	0.68
25:CY:455:GLY:HA2	25:CY:660:ARG:HH12	1.59	0.68
50:BS:89:ARG:HG3	50:BS:92:TYR:CA	2.24	0.68
50:BS:96:GLY:O	50:BS:98:VAL:N	2.24	0.68
32:D6:11:LEU:CD2	32:D6:51:GLU:HG3	2.24	0.68
25:AY:601:ILE:HG21	25:AY:687:LEU:HD12	1.76	0.68
32:B6:27:LYS:HD2	32:B6:30:THR:HB	1.76	0.68
25:CY:227:ILE:HG23	25:CY:237:PRO:CG	2.22	0.68
36:BA:2344:U:O2'	36:BA:2345:G:H5''	1.93	0.68
36:DA:2893:G:H5'	36:DA:2894:G:H5'	1.74	0.68
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	1.93	0.68
43:DH:16:SER:CB	43:DH:27:LYS:HB2	2.24	0.68
36:BA:622:G:O2'	36:BA:623:G:H5'	1.93	0.68
41:BF:89:VAL:HG12	41:BF:90:PHE:N	2.09	0.68
37:BB:106:G:H5''	57:BZ:31:ARG:HB3	1.76	0.68
1:AA:368:U:P	25:AY:351:ARG:HH21	2.16	0.68
36:BA:1638:C:H2'	36:BA:1639:U:O4'	1.94	0.68
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE2	1.93	0.68
49:BR:4:LEU:O	49:BR:4:LEU:HD13	1.92	0.68
17:CQ:9:VAL:HG11	17:CQ:84:LEU:HD12	1.75	0.68
6:CF:2:ARG:HD3	6:CF:92:LYS:HE3	1.75	0.68
23:AW:38:A:C5	23:AW:39:C:C5	2.82	0.68
36:DA:568:U:H2'	36:DA:570:G:OP2	1.94	0.68
33:D7:35:ARG:HG2	33:D7:35:ARG:HH11	1.59	0.68
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	1.94	0.67
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	1.98	0.67
50:BS:36:TYR:N	50:BS:36:TYR:CD1	2.58	0.67
25:CY:227:ILE:O	25:CY:227:ILE:HG22	1.94	0.67
25:CY:181:LEU:HD11	25:CY:242:LEU:HB3	1.76	0.67
36:DA:666:G:H4'	47:DP:49:ARG:NH2	2.08	0.67
14:AN:41:ARG:HG2	14:AN:41:ARG:HH11	1.59	0.67
46:DO:104:ARG:NE	51:DT:33:LYS:HE3	2.08	0.67
4:CD:173:TRP:HB3	4:CD:187:ARG:NH1	2.09	0.67
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	1.94	0.67
31:B5:25:LEU:HD12	54:BW:19:LEU:HB3	1.76	0.67
56:BY:31:LEU:HD22	56:BY:31:LEU:N	2.09	0.67
36:BA:1993:U:H4'	40:BE:128:SER:OG	1.93	0.67
27:D1:82:LEU:O	27:D1:83:GLU:HG3	1.93	0.67
17:CQ:58:GLU:HB2	17:CQ:74:LEU:HB3	1.76	0.67
39:BD:45:ASN:HB2	39:BD:46:GLN:OE1	1.94	0.67
39:DD:172:TYR:CD1	39:DD:186:HIS:HA	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:139:PRO:HA	38:DC:145:THR:CG2	2.24	0.67
36:BA:2579:C:H4'	40:BE:134:ILE:CG1	2.23	0.67
25:AY:409:ILE:HG12	25:AY:656:ALA:CB	2.25	0.67
51:DT:24:PRO:HD3	51:DT:52:ILE:HD12	1.75	0.67
40:BE:34:VAL:O	40:BE:34:VAL:HG22	1.92	0.67
36:BA:2198:A:H4'	36:BA:2199:A:OP1	1.95	0.67
25:AY:157:LEU:N	25:AY:157:LEU:HD23	2.08	0.67
26:D0:14:ARG:HB2	26:D0:14:ARG:HH11	1.57	0.67
50:BS:49:VAL:HG12	50:BS:50:SER:N	2.09	0.67
43:BH:76:VAL:O	43:BH:79:VAL:HG22	1.93	0.67
40:DE:14:ILE:HD11	40:DE:173:VAL:HG11	1.74	0.67
34:B8:8:LYS:HE3	36:BA:245:G:O6	1.94	0.67
10:AJ:42:THR:HG23	10:AJ:67:THR:O	1.95	0.67
33:B7:6:GLN:O	36:BA:686:G:H1'	1.94	0.67
13:CM:27:LYS:HE2	13:CM:31:LYS:HE3	1.76	0.67
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.29	0.67
1:CA:1228:C:OP1	13:CM:115:LYS:HG3	1.94	0.67
36:DA:1306:C:H2'	36:DA:1307:A:H8	1.58	0.67
36:BA:528:A:H2	36:BA:2043:C:C5'	2.08	0.67
24:AX:16:U:H2'	24:AX:17:U:H5'	1.74	0.67
42:DG:110:ALA:HB1	42:DG:140:ILE:HD13	1.77	0.67
42:BG:34:LEU:HD13	42:BG:99:MET:CE	2.23	0.67
36:DA:813:U:H2'	36:DA:814:C:C5	2.30	0.67
32:D6:5:VAL:O	32:D6:8:LYS:HB3	1.94	0.67
31:B5:50:GLY:HA2	31:B5:56:LYS:HB3	1.75	0.67
45:DN:9:VAL:HG11	45:DN:39:ARG:NH2	1.99	0.67
52:DU:112:ARG:CZ	53:DV:46:VAL:HG21	2.24	0.67
46:DO:47:ILE:CG2	46:DO:48:PRO:HD2	2.25	0.67
51:BT:16:ARG:HD2	51:BT:18:ASP:OD1	1.94	0.67
36:DA:1038:C:C3'	36:DA:1039:G:H5''	2.22	0.67
36:BA:2591:C:H2'	36:BA:2592:G:H8	1.56	0.67
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	1.95	0.67
31:D5:19:ARG:HA	36:DA:2046:G:C5'	2.24	0.67
36:BA:1775:U:C2'	36:BA:1776:G:H5'	2.24	0.67
12:CL:37:CYS:HB3	12:CL:79:GLU:O	1.95	0.67
25:AY:578:SER:HB3	25:AY:581:ALA:HB2	1.77	0.67
1:CA:818:G:O2'	1:CA:819:A:H5'	1.94	0.67
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.30	0.67
36:BA:1386:C:H2'	36:BA:1387:C:H6	1.60	0.67
36:DA:2657:A:O2'	43:DH:160:LYS:HE3	1.93	0.67
1:CA:461:A:O2'	1:CA:470:C:H5'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CX:12:A:N3	24:CX:12:A:H2'	2.10	0.67
25:CY:313:ALA:HA	25:CY:328:ILE:HG22	1.76	0.67
3:AC:46:GLU:O	3:AC:47:LEU:HB2	1.94	0.67
41:BF:17:ARG:HG3	41:BF:17:ARG:HH11	1.58	0.67
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.23	0.67
47:DP:6:LEU:HB3	47:DP:9:ASN:HD21	1.58	0.67
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.94	0.67
51:BT:132:LYS:HG2	51:BT:133:GLU:H	1.60	0.67
36:BA:1558:A:H4'	36:BA:1559:G:O5'	1.95	0.67
22:AV:61:C:H2'	22:AV:62:C:H6	1.60	0.67
36:DA:582:G:H2'	36:DA:583:G:H8	1.60	0.67
36:DA:1290:C:H2'	36:DA:1291:C:C6	2.28	0.67
36:BA:861:A:H2'	36:BA:862:G:O4'	1.94	0.67
54:BW:14:PRO:HG2	54:BW:78:GLU:HB2	1.77	0.67
47:DP:122:PRO:O	47:DP:123:LEU:HB3	1.93	0.67
12:AL:37:CYS:HB3	12:AL:79:GLU:O	1.94	0.67
1:AA:176:C:H2'	1:AA:177:C:H6	1.58	0.67
1:CA:514:C:H2'	1:CA:515:G:H8	1.58	0.67
5:CE:6:PHE:HB3	5:CE:35:GLY:O	1.94	0.67
36:BA:790:C:H5'	36:BA:791:C:OP2	1.94	0.67
42:DG:114:ILE:O	42:DG:116:ASP:N	2.28	0.67
42:DG:51:ARG:NE	42:DG:51:ARG:HA	2.02	0.67
25:CY:170:ARG:HD2	25:CY:170:ARG:H	1.59	0.67
52:BU:93:LYS:H	52:BU:93:LYS:HD2	1.59	0.67
29:D3:17:LYS:NZ	29:D3:20:LYS:HE3	2.10	0.67
36:BA:84:A:H5''	56:BY:9:LYS:NZ	2.10	0.67
50:DS:13:ARG:CG	50:DS:14:VAL:H	2.04	0.67
25:CY:673:PHE:CG	25:CY:674:ASP:N	2.62	0.67
36:DA:28:A:N6	36:DA:512:G:H1'	2.09	0.67
1:CA:267:C:H2'	1:CA:268:C:H6	1.59	0.67
51:BT:132:LYS:CD	51:BT:132:LYS:H	2.08	0.67
42:BG:141:PHE:O	42:BG:144:ILE:HG22	1.94	0.67
36:DA:286:C:H2'	36:DA:287:C:C6	2.30	0.67
36:DA:1775:U:H2'	36:DA:1776:G:C5'	2.24	0.67
15:AO:33:THR:HG21	15:AO:85:LEU:CD2	2.24	0.67
4:CD:92:VAL:O	4:CD:96:LEU:HD22	1.95	0.67
31:B5:41:PRO:HG2	31:B5:44:THR:OG1	1.93	0.67
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.08	0.67
36:BA:1123:C:H2'	36:BA:1124:C:H6	1.58	0.67
6:CF:75:LEU:O	6:CF:79:LEU:HG	1.94	0.67
36:BA:654(G):C:H2'	36:BA:654(H):G:H8	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:95:LYS:HE2	56:DY:101:LYS:H	1.60	0.67
1:AA:1375:A:H5'	1:AA:1376:U:OP2	1.95	0.67
36:BA:603:A:H4'	36:BA:604:G:O5'	1.94	0.67
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.59	0.67
25:AY:329:ARG:HA	25:AY:374:LEU:HG	1.76	0.67
30:B4:28:LYS:HE3	30:B4:28:LYS:HA	1.76	0.67
32:D6:5:VAL:HG12	32:D6:6:ARG:O	1.94	0.67
29:B3:29:ARG:CB	29:B3:29:ARG:HH11	2.04	0.67
52:DU:95:LEU:HD13	53:DV:4:ILE:HG23	1.77	0.67
36:BA:1016:G:H1	36:BA:1146:C:H42	1.43	0.67
49:DR:24:GLN:NE2	49:DR:36:THR:HG21	2.09	0.67
47:BP:7:ARG:CB	47:BP:8:PRO:HD3	2.22	0.67
49:DR:10:LEU:HD22	49:DR:17:ARG:CD	2.24	0.67
4:AD:64:LEU:HD23	4:AD:75:PHE:HZ	1.60	0.67
23:CW:51:C:C3'	23:CW:52:G:H5''	2.25	0.67
20:AT:93:GLU:C	20:AT:95:ALA:H	1.97	0.67
41:BF:157:VAL:CG2	41:BF:194:MET:HG2	2.25	0.67
9:CI:95:LYS:HZ3	9:CI:96:LEU:HD12	1.60	0.67
9:AI:95:LYS:HZ2	9:AI:96:LEU:CD1	2.08	0.67
52:BU:55:ARG:HA	52:BU:58:ARG:CG	2.25	0.67
40:BE:63:LEU:O	40:BE:63:LEU:HD23	1.93	0.67
57:DZ:91:LEU:HD22	57:DZ:130:PRO:HG3	1.77	0.67
1:AA:664:G:H22	1:AA:741:G:H1	1.43	0.67
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.29	0.67
1:CA:1160:G:O6	1:CA:1181:G:O6	2.12	0.67
1:CA:176:C:H2'	1:CA:177:C:H6	1.60	0.67
57:BZ:156:LYS:O	57:BZ:158:PRO:HD3	1.94	0.67
16:CP:4:ILE:HG13	16:CP:64:ALA:HB1	1.77	0.67
13:CM:37:THR:HG21	13:CM:56:LEU:HD22	1.77	0.67
12:AL:36:VAL:HG11	25:AY:425:SER:HB3	1.77	0.67
36:DA:548:A:H2'	36:DA:549:G:H5'	1.76	0.67
1:AA:1160:G:O6	1:AA:1181:G:O6	2.11	0.67
25:AY:141:LYS:HE3	60:AY:702:GDP:HN22	1.57	0.67
25:CY:512:ILE:HD11	25:CY:589:ALA:HB1	1.77	0.67
40:DE:203:LYS:HE3	40:DE:204:ALA:HB2	1.75	0.67
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	1.75	0.67
41:DF:16:GLY:O	41:DF:17:ARG:HG3	1.95	0.67
29:B3:56:VAL:HG12	29:B3:57:GLU:H	1.58	0.67
32:D6:48:VAL:HG23	32:D6:49:HIS:H	1.58	0.67
34:D8:52:LYS:N	34:D8:53:PRO:CD	2.57	0.67
49:BR:10:LEU:HB3	49:BR:17:ARG:CD	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:34:VAL:O	40:DE:34:VAL:HG22	1.93	0.67
10:AJ:55:LYS:H	10:AJ:55:LYS:CE	2.08	0.67
55:DX:10:ALA:HB1	55:DX:11:PRO:HD2	1.74	0.67
52:DU:53:ARG:HA	52:DU:56:ASP:OD2	1.95	0.67
39:DD:11:PRO:O	39:DD:13:ARG:N	2.27	0.67
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.57	0.67
27:D1:58:ILE:HD11	27:D1:91:LYS:HB2	1.76	0.67
47:BP:122:PRO:O	47:BP:123:LEU:HB3	1.93	0.67
1:CA:491:G:H2'	1:CA:492:G:H8	1.58	0.67
36:BA:1132:A:H2'	36:BA:1133:U:H6	1.58	0.67
36:BA:203:C:H3'	36:BA:204:A:H5''	1.76	0.67
1:CA:659:U:O2'	1:CA:660:G:H5'	1.94	0.67
19:AS:6:LYS:CE	19:AS:6:LYS:H	2.08	0.67
36:DA:1197:G:H2'	36:DA:1198:U:H6	1.60	0.67
1:AA:164:U:H2'	1:AA:165:C:C6	2.30	0.67
25:CY:111:SER:O	25:CY:113:GLY:N	2.27	0.67
52:BU:112:ARG:CZ	53:BV:46:VAL:HG21	2.25	0.67
3:CC:46:GLU:O	3:CC:47:LEU:HB2	1.93	0.67
17:AQ:66:SER:O	17:AQ:70:ARG:NH1	2.27	0.67
31:D5:36:CYS:SG	31:D5:48:GLU:O	2.51	0.67
49:DR:10:LEU:HB3	49:DR:17:ARG:CD	2.25	0.67
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.24	0.67
1:CA:509:A:H3'	1:CA:510:A:C8	2.30	0.67
12:CL:53:ARG:NH1	12:CL:92:ASP:OD2	2.26	0.67
2:AB:12:GLU:HA	2:AB:16:HIS:ND1	2.08	0.67
31:B5:27:PRO:HG3	54:BW:23:LEU:HD11	1.77	0.67
31:D5:41:PRO:HG2	31:D5:44:THR:OG1	1.95	0.67
38:DC:135:ARG:HD2	38:DC:135:ARG:N	2.10	0.67
52:BU:25:TRP:O	52:BU:28:ARG:HB2	1.95	0.67
36:BA:2074:U:H2'	36:BA:2075:U:C6	2.30	0.67
10:CJ:42:THR:HG23	10:CJ:67:THR:O	1.94	0.67
2:AB:238:LEU:O	2:AB:238:LEU:HG	1.95	0.67
38:DC:118:PRO:HB2	38:DC:148:PHE:CZ	2.30	0.67
42:BG:31:VAL:O	42:BG:33:ARG:HD3	1.94	0.67
40:DE:133:LYS:N	40:DE:134:ILE:HD12	2.09	0.67
25:AY:180:VAL:HG23	25:AY:181:LEU:H	1.59	0.67
49:DR:45:ARG:HG3	49:DR:46:GLY:N	2.08	0.67
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.24	0.67
47:BP:16:ARG:CD	47:BP:18:ARG:H	2.08	0.67
2:AB:187:LEU:HD11	2:AB:204:ASN:O	1.95	0.67
30:B4:12:ALA:HB1	30:B4:29:PRO:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.30	0.67
25:CY:413:ILE:HG22	25:CY:449:THR:O	1.95	0.67
26:B0:51:VAL:HG21	26:B0:79:VAL:O	1.94	0.67
17:CQ:22:LEU:HD11	17:CQ:39:SER:HB2	1.77	0.67
36:BA:548:A:H2'	36:BA:549:G:H5'	1.75	0.67
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.60	0.67
1:CA:178:C:O2'	1:CA:179:A:H5'	1.94	0.67
46:DO:3:GLN:HB2	46:DO:4:PRO:HD2	1.74	0.67
12:CL:7:ILE:O	12:CL:11:VAL:HG23	1.94	0.67
22:AV:68:C:H2'	22:AV:69:G:C8	2.29	0.67
25:AY:111:SER:OG	25:AY:141:LYS:HB3	1.96	0.67
1:AA:980:C:H2'	1:AA:981:U:H5'	1.76	0.67
32:B6:9:LEU:HD12	32:B6:28:ARG:HG3	1.77	0.67
39:BD:35:LYS:HG2	39:BD:63:ARG:HA	1.77	0.67
39:BD:39:LYS:HZ1	39:BD:87:ASN:HB3	1.60	0.67
25:CY:609:GLU:H	25:CY:670:VAL:HG22	1.59	0.67
47:BP:6:LEU:HB3	47:BP:9:ASN:HD21	1.58	0.67
39:DD:35:LYS:HG2	39:DD:62:TYR:O	1.95	0.67
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.09	0.67
36:DA:796:C:H2'	36:DA:797:C:C6	2.29	0.67
25:AY:9:LEU:O	25:AY:9:LEU:HD23	1.95	0.67
25:CY:281:PRO:HB2	25:CY:286:ILE:CD1	2.24	0.67
12:CL:46:LYS:HB2	12:CL:92:ASP:O	1.94	0.67
52:DU:49:HIS:HA	52:DU:52:ARG:HB2	1.77	0.67
19:CS:44:MET:N	19:CS:44:MET:SD	2.67	0.67
57:BZ:77:ASP:CG	57:BZ:77:ASP:O	2.33	0.67
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.93	0.67
40:BE:24:THR:HG23	40:BE:184:VAL:HG23	1.76	0.67
34:D8:42:ARG:O	34:D8:44:LYS:N	2.25	0.67
36:DA:654(R):C:HO2'	36:DA:654(S):G:H8	1.41	0.67
36:DA:1386:C:H2'	36:DA:1387:C:C6	2.29	0.67
40:DE:44:TYR:O	40:DE:45:THR:HB	1.93	0.67
2:CB:156:LYS:O	2:CB:157:ARG:HB2	1.94	0.67
36:BA:1827:C:O2'	36:BA:1828:G:H5'	1.94	0.67
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.95	0.67
36:BA:1842:G:H2'	36:BA:1843:C:C6	2.30	0.67
11:CK:79:SER:OG	11:CK:106:LYS:HD2	1.95	0.67
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.29	0.67
41:BF:3:GLU:HA	41:BF:24:LEU:CG	2.15	0.66
36:DA:84:A:H5''	56:DY:9:LYS:NZ	2.09	0.66
45:BN:26:LEU:C	45:BN:26:LEU:HD12	2.15	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:28:ARG:CG	38:DC:28:ARG:HH11	2.01	0.66
36:DA:1016:G:H1	36:DA:1146:C:H42	1.42	0.66
45:DN:18:ALA:HB1	45:DN:21:LYS:HB2	1.75	0.66
27:B1:90:ILE:O	27:B1:94:LEU:HD12	1.93	0.66
36:DA:2103:C:H1'	36:DA:2187:G:H1	1.58	0.66
25:AY:530:VAL:HG13	25:AY:531:GLY:N	2.06	0.66
36:BA:676:A:H1'	36:BA:2443:C:H1'	1.76	0.66
9:CI:24:GLY:HA2	9:CI:59:PHE:O	1.95	0.66
40:DE:132:HIS:HA	40:DE:135:HIS:CE1	2.30	0.66
55:BX:10:ALA:HB1	55:BX:11:PRO:HD2	1.75	0.66
4:CD:64:LEU:HD23	4:CD:75:PHE:HZ	1.59	0.66
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.77	0.66
22:CV:6:G:H1	22:CV:67:C:H42	1.43	0.66
36:BA:1231:G:H2'	36:BA:1232:G:C8	2.30	0.66
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.58	0.66
37:BB:87:G:H2'	37:BB:88:C:H3'	1.77	0.66
29:D3:56:VAL:HG12	29:D3:57:GLU:H	1.59	0.66
16:AP:9:PHE:HE2	16:AP:18:ARG:CZ	2.09	0.66
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.59	0.66
36:BA:271(Z):C:H1'	36:BA:272(C):G:H1'	1.76	0.66
36:BA:1306:C:H2'	36:BA:1307:A:H8	1.59	0.66
13:AM:46:LYS:HD3	13:AM:46:LYS:O	1.95	0.66
25:CY:215:LYS:HA	25:CY:218:GLU:OE1	1.95	0.66
13:CM:124:PRO:HG2	25:CY:574:GLU:N	1.98	0.66
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	1.76	0.66
25:AY:560:VAL:HG11	25:AY:594:VAL:HG11	1.77	0.66
32:B6:11:LEU:CD2	32:B6:51:GLU:HG3	2.25	0.66
56:BY:9:LYS:HD3	56:BY:94:LYS:HE2	1.77	0.66
36:BA:84:A:H5''	56:BY:9:LYS:HZ2	1.60	0.66
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.21	0.66
3:AC:155:GLY:O	3:AC:156:ARG:HB2	1.95	0.66
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.95	0.66
45:DN:133:GLN:HG2	45:DN:134:ARG:N	2.10	0.66
26:D0:26:TYR:HE2	36:DA:857:C:H1'	1.61	0.66
51:BT:80:SER:HB3	51:BT:81:PRO:CD	2.26	0.66
13:AM:6:GLY:C	13:AM:8:GLU:H	1.98	0.66
2:CB:187:LEU:HD11	2:CB:204:ASN:O	1.94	0.66
5:CE:145:LYS:HA	8:CH:107:LEU:HD21	1.75	0.66
36:DA:1782:C:H2'	36:DA:1783:A:H5'	1.76	0.66
25:AY:519:ARG:NH2	25:AY:678:GLU:HB3	2.09	0.66
57:BZ:40:ASP:HB3	57:BZ:43:GLU:HG2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.11	0.66
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.11	0.66
2:CB:120:ALA:O	2:CB:121:LEU:HD23	1.95	0.66
36:BA:559:G:H22	52:BU:49:HIS:CD2	2.13	0.66
36:BA:279:C:C2'	36:BA:280:C:H5''	2.25	0.66
19:AS:13:ASP:C	19:AS:15:LEU:H	1.96	0.66
4:AD:144:ASP:O	4:AD:184:LYS:HA	1.94	0.66
1:AA:408:A:H4'	4:AD:112:VAL:HG11	1.76	0.66
40:DE:24:THR:HG23	40:DE:184:VAL:HG23	1.76	0.66
36:DA:848:G:N3	36:DA:933:A:H1'	2.10	0.66
36:DA:1115:G:H2'	36:DA:1116:C:C6	2.30	0.66
36:BA:271(R):G:O2'	36:BA:271(S):G:H5'	1.96	0.66
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.75	0.66
36:DA:1993:U:H4'	40:DE:128:SER:OG	1.95	0.66
36:DA:730:C:O2'	36:DA:731:C:H5'	1.95	0.66
36:DA:389:G:H1	47:DP:71:VAL:HG12	1.59	0.66
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.61	0.66
41:DF:18:ARG:HG2	41:DF:19:GLU:H	1.60	0.66
59:AY:701:FUA:H201	59:AY:701:FUA:O1	1.95	0.66
50:DS:28:VAL:HG12	50:DS:29:PHE:N	2.07	0.66
25:AY:487:ILE:HD11	25:AY:563:ILE:HG22	1.77	0.66
56:DY:9:LYS:HD3	56:DY:94:LYS:HE2	1.78	0.66
46:BO:69:ILE:HD12	46:BO:69:ILE:N	2.09	0.66
51:BT:26:ASP:HB3	51:BT:89:VAL:O	1.95	0.66
51:DT:28:VAL:HG22	51:DT:46:GLU:CA	2.23	0.66
49:BR:10:LEU:HD22	49:BR:17:ARG:CD	2.25	0.66
51:DT:78:LEU:HD22	51:DT:78:LEU:O	1.95	0.66
51:DT:80:SER:HB3	51:DT:81:PRO:CD	2.25	0.66
1:CA:509:A:C5'	1:CA:510:A:OP2	2.42	0.66
43:BH:85:LYS:C	43:BH:85:LYS:HD3	2.15	0.66
42:DG:77:ILE:CG2	42:DG:80:PHE:HB2	2.24	0.66
19:CS:13:ASP:C	19:CS:15:LEU:H	1.97	0.66
36:DA:676:A:H2	36:DA:802:A:H61	1.43	0.66
30:D4:14:ILE:N	30:D4:14:ILE:HD12	2.11	0.66
36:BA:1717:G:C2'	36:BA:1718:G:H5''	2.25	0.66
36:BA:1386:C:H2'	36:BA:1387:C:C6	2.30	0.66
36:BA:525:U:O2'	36:BA:526:A:H5''	1.94	0.66
36:DA:693:C:O2'	36:DA:694:U:H5'	1.96	0.66
1:CA:241:C:O2'	1:CA:242:C:H5'	1.95	0.66
55:BX:30:VAL:HG22	55:BX:77:LYS:O	1.95	0.66
1:CA:163:C:O2'	1:CA:164:U:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DW:1:MET:CE	54:DW:2:GLU:H	2.07	0.66
49:BR:56:LYS:HE3	49:BR:94:TYR:HE2	1.59	0.66
1:AA:1423:G:H5'	46:BO:49:ARG:HH22	1.60	0.66
36:BA:2457:U:C2'	36:BA:2458:G:H5'	2.24	0.66
42:DG:5:VAL:HB	42:DG:8:LYS:CB	2.24	0.66
25:CY:84:THR:H	25:CY:85:PRO:CD	2.05	0.66
57:BZ:166:SER:HB2	57:BZ:168:GLU:N	2.11	0.66
36:DA:240:G:C3'	36:DA:241:A:H5''	2.21	0.66
2:AB:223:ILE:HG12	2:AB:226:ARG:CZ	2.26	0.66
32:D6:48:VAL:HG23	32:D6:49:HIS:N	2.10	0.66
36:DA:2344:U:O2'	36:DA:2345:G:H5''	1.95	0.66
29:B3:17:LYS:NZ	29:B3:20:LYS:HE3	2.10	0.66
47:BP:105:LEU:H	47:BP:105:LEU:HD12	1.61	0.66
47:DP:46:LYS:HG2	47:DP:52:GLU:HG2	1.77	0.66
57:BZ:115:GLY:HA2	57:BZ:177:PRO:HG3	1.78	0.66
1:CA:627:G:O2'	1:CA:628:G:H5'	1.96	0.66
36:DA:1717:G:C2'	36:DA:1718:G:H5''	2.25	0.66
19:AS:41:VAL:C	19:AS:43:GLU:H	1.98	0.66
56:DY:31:LEU:HD22	56:DY:31:LEU:N	2.10	0.66
50:BS:54:LEU:HD13	50:BS:54:LEU:O	1.95	0.66
38:DC:4:HIS:HB3	38:DC:8:TYR:HD2	1.61	0.66
37:BB:87:G:C3'	37:BB:88:C:H5''	2.25	0.66
40:BE:98:PRO:HG3	40:BE:175:VAL:HG12	1.76	0.66
37:DB:15:A:H3'	37:DB:16:G:C5'	2.26	0.66
36:DA:1754:C:OP1	51:DT:96:ARG:NH1	2.28	0.66
36:BA:782:A:C2	39:BD:226:MET:HG2	2.30	0.66
36:DA:467:G:O2'	36:DA:468:G:H5'	1.96	0.66
44:BJ:26:UNK:HA	44:BJ:84:UNK:HA	1.77	0.66
36:BA:2455:G:H2'	36:BA:2456:C:C6	2.31	0.66
36:BA:1380:G:H2'	36:BA:1381:G:H8	1.59	0.66
25:AY:662:LYS:HZ2	43:BH:175:LYS:HG3	1.60	0.66
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	1.96	0.66
32:D6:9:LEU:HD12	32:D6:28:ARG:HG3	1.78	0.66
25:CY:223:PHE:CE2	25:CY:249:GLY:HA3	2.29	0.66
36:BA:2344:U:H4'	36:BA:2345:G:OP1	1.94	0.66
47:DP:95:VAL:HG23	47:DP:125:VAL:HG23	1.78	0.66
51:BT:106:SER:HA	51:BT:110:ILE:HG12	1.77	0.66
36:BA:2762:G:H8	36:BA:2762:G:H5'	1.58	0.66
34:B8:52:LYS:N	34:B8:53:PRO:CD	2.58	0.66
36:DA:2394:C:OP1	47:DP:63:PRO:HD2	1.95	0.66
31:B5:36:CYS:SG	31:B5:49:CYS:HB3	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:36:CYS:SG	31:B5:48:GLU:O	2.53	0.66
38:BC:28:ARG:HG3	38:BC:28:ARG:NH1	2.10	0.66
5:AE:79:GLU:HB3	5:AE:92:LYS:HA	1.78	0.66
10:CJ:70:ARG:HH11	10:CJ:70:ARG:HG2	1.60	0.66
36:BA:279:C:C3'	36:BA:280:C:H5''	2.26	0.66
1:AA:363:A:OP2	12:AL:33:ARG:HD3	1.96	0.66
38:BC:139:PRO:HA	38:BC:145:THR:CG2	2.26	0.66
36:DA:1942:C:H3'	36:DA:1943:U:H5''	1.76	0.66
9:CI:33:PHE:CZ	9:CI:47:LEU:HD11	2.30	0.66
1:AA:178:C:O2'	1:AA:179:A:H5'	1.95	0.66
36:DA:1380:G:H2'	36:DA:1381:G:H8	1.61	0.66
32:B6:40:CYS:HB2	32:B6:46:HIS:CE1	2.31	0.66
5:AE:143:ARG:HH12	8:AH:77:GLU:CD	1.99	0.66
1:CA:345:C:H5'	1:CA:346:G:OP2	1.96	0.66
36:BA:55:G:H2'	36:BA:56:A:H8	1.59	0.66
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.31	0.66
36:DA:1186:G:H2'	36:DA:1187:G:O4'	1.94	0.66
1:CA:56:U:H2'	1:CA:57:G:C8	2.30	0.66
36:DA:203:C:H3'	36:DA:204:A:H5''	1.78	0.66
6:AF:75:LEU:O	6:AF:79:LEU:HG	1.95	0.66
24:CX:11:A:O4'	24:CX:12:A:C8	2.49	0.66
24:CX:11:A:C4'	24:CX:12:A:O5'	2.41	0.66
24:AX:11:A:O4'	24:AX:12:A:C8	2.49	0.66
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	1.96	0.66
57:BZ:9:TYR:CE1	57:BZ:61:LEU:HD13	2.29	0.66
49:BR:24:GLN:NE2	49:BR:36:THR:HG21	2.10	0.66
32:D6:37:ARG:NH1	36:DA:2286:A:N7	2.43	0.66
36:DA:603:A:H4'	36:DA:604:G:O5'	1.95	0.66
51:BT:24:PRO:HD3	51:BT:52:ILE:CD1	2.25	0.66
57:BZ:6:LYS:HG2	57:BZ:8:TYR:OH	1.95	0.66
46:BO:47:ILE:CG2	46:BO:48:PRO:HD2	2.26	0.66
57:BZ:42:VAL:HG13	57:BZ:43:GLU:N	2.10	0.66
31:D5:19:ARG:HD2	36:DA:1266:G:OP1	1.95	0.66
1:AA:339:C:OP2	46:BO:97:ARG:NH1	2.29	0.66
37:DB:87:G:C3'	37:DB:88:C:H5''	2.26	0.66
54:BW:64:MET:O	54:BW:65:LEU:HB3	1.95	0.66
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.76	0.66
4:AD:61:LYS:HE2	4:AD:62:GLN:HE21	1.61	0.66
36:DA:120:U:H5'	36:DA:121:G:OP1	1.95	0.66
1:AA:1423:G:C5'	46:BO:49:ARG:HH22	2.07	0.66
16:AP:4:ILE:HG13	16:AP:64:ALA:HB1	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1049:C:H2'	36:DA:1050:A:H8	1.61	0.66
48:DQ:12:GLN:HE21	48:DQ:73:PRO:HD2	1.61	0.66
48:BQ:76:LYS:HB3	48:BQ:91:GLU:CG	2.26	0.66
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.95	0.66
1:AA:598:U:H2'	1:AA:599:C:C6	2.30	0.66
2:AB:137:ARG:HD3	2:AB:137:ARG:C	2.16	0.66
25:AY:21:ILE:H	25:AY:21:ILE:CD1	1.96	0.66
25:CY:139:MET:O	25:CY:171:GLU:HA	1.95	0.66
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.96	0.66
41:BF:16:GLY:O	41:BF:17:ARG:HG3	1.96	0.66
18:CR:29:PHE:CD1	18:CR:29:PHE:N	2.59	0.66
40:BE:134:ILE:N	40:BE:134:ILE:HD12	2.11	0.66
47:DP:112:LEU:H	47:DP:128:HIS:CD2	2.14	0.66
51:DT:106:SER:HA	51:DT:110:ILE:HG12	1.76	0.66
1:CA:1004:A:H61	1:CA:1034:G:C2'	2.06	0.66
40:DE:61:ARG:HG2	40:DE:62:PRO:HD3	1.78	0.66
57:DZ:81:ARG:HH11	57:DZ:81:ARG:HB3	1.61	0.66
5:CE:79:GLU:HB3	5:CE:92:LYS:HA	1.76	0.66
27:D1:86:SER:CB	27:D1:90:ILE:HG12	2.25	0.66
36:DA:2198:A:H4'	36:DA:2199:A:OP1	1.94	0.66
41:DF:20:LEU:HD22	41:DF:23:ASP:OD2	1.95	0.66
1:AA:953:G:H5'	1:AA:965:A:H61	1.61	0.66
34:D8:6:THR:HG22	34:D8:63:PRO:HD3	1.75	0.66
36:BA:359:A:H2'	36:BA:360:G:O4'	1.94	0.66
25:AY:65:ILE:O	25:AY:65:ILE:HG12	1.94	0.66
1:AA:203:U:H5''	1:AA:204:U:OP1	1.96	0.66
36:DA:784:A:H5''	39:DD:227:ASN:ND2	2.11	0.66
36:DA:1223:G:H3'	36:DA:1224:C:C5'	2.25	0.66
1:CA:663:A:O2'	1:CA:664:G:H5'	1.96	0.66
41:BF:78:ILE:HA	41:BF:83:PHE:CD2	2.30	0.66
27:B1:23:LYS:HD3	27:B1:28:GLY:HA3	1.76	0.66
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.76	0.66
49:BR:62:ALA:O	49:BR:66:VAL:HG23	1.95	0.66
1:CA:865:A:H2	1:CA:918:A:H4'	1.59	0.66
25:CY:406:GLU:HB3	25:CY:407:PRO:HD2	1.78	0.66
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.59	0.66
36:DA:1378:A:H4'	36:DA:1379:A:OP1	1.96	0.66
25:AY:25:LYS:O	25:AY:28:THR:HB	1.95	0.66
36:BA:320:A:H2'	41:BF:136:THR:OG1	1.95	0.66
45:BN:46:VAL:O	45:BN:47:ALA:HB3	1.96	0.66
36:DA:2392:A:H2	36:DA:2424:C:H42	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:243:GLY:O	39:DD:244:ARG:HB3	1.95	0.66
36:DA:272(H):C:H6	36:DA:272(H):C:H5'	1.61	0.66
39:DD:131:LEU:HB2	39:DD:136:ILE:CD1	2.23	0.66
36:BA:2055:C:H4'	36:BA:2056:G:H5''	1.78	0.66
1:CA:1489:G:H2'	1:CA:1490:C:C5'	2.25	0.66
1:AA:1026:G:C2'	1:AA:1027:C:H5'	2.26	0.66
25:CY:74:TRP:CG	25:CY:273:LEU:HD22	2.30	0.66
43:DH:85:LYS:HD3	43:DH:85:LYS:C	2.16	0.66
43:DH:124:GLU:CG	43:DH:132:ARG:HG3	2.26	0.66
36:BA:739:G:H4'	36:BA:740:U:OP1	1.95	0.66
1:CA:203:U:H5''	1:CA:204:U:OP1	1.96	0.66
40:DE:98:PRO:HG3	40:DE:175:VAL:HG12	1.77	0.66
36:BA:2248:C:C2'	36:BA:2249:U:H5'	2.24	0.66
47:DP:122:PRO:HB3	47:DP:141:ALA:HB1	1.78	0.66
1:CA:301:G:H2'	1:CA:302:G:H8	1.61	0.66
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.16	0.66
46:BO:68:GLU:HB3	46:BO:78:ARG:HB2	1.77	0.66
45:BN:74:ARG:HH21	45:BN:83:LYS:HD3	1.61	0.66
36:BA:389:G:H1	47:BP:71:VAL:HG12	1.60	0.66
54:DW:64:MET:O	54:DW:65:LEU:HB3	1.96	0.66
49:DR:56:LYS:HE3	49:DR:94:TYR:HE2	1.61	0.66
38:DC:190:ILE:O	38:DC:194:ILE:HG12	1.96	0.66
36:DA:2593:U:H2'	36:DA:2594:C:C6	2.31	0.66
36:DA:55:G:H2'	36:DA:56:A:H8	1.58	0.66
40:BE:103:ASP:OD2	40:BE:201:THR:HA	1.96	0.66
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.31	0.66
1:AA:1082:G:O2'	1:AA:1083:U:H5'	1.96	0.66
36:DA:1682:G:H5'	36:DA:1762:A:O2'	1.96	0.66
25:CY:503:GLY:C	25:CY:505:GLY:H	1.98	0.66
57:DZ:18:LEU:CD1	57:DZ:18:LEU:H	2.08	0.66
25:CY:101:LEU:HD12	25:CY:101:LEU:O	1.96	0.66
25:AY:82:ILE:CD1	25:AY:101:LEU:HD23	2.25	0.66
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	1.76	0.66
36:BA:83:G:HO2'	36:BA:84:A:H8	1.43	0.66
25:AY:621:ILE:HG12	25:AY:643:ILE:HD13	1.77	0.66
39:BD:35:LYS:NZ	39:BD:35:LYS:HB3	2.10	0.66
36:BA:676:A:H2	36:BA:802:A:H61	1.42	0.66
49:BR:45:ARG:HG3	49:BR:46:GLY:N	2.08	0.66
51:BT:57:PHE:O	51:BT:59:THR:HG23	1.96	0.66
40:DE:33:VAL:HG12	40:DE:90:THR:H	1.61	0.66
5:AE:76:ILE:CG2	5:AE:118:ILE:HD13	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CB	2.23	0.66
54:DW:50:VAL:HG11	54:DW:103:ILE:HG21	1.76	0.66
36:BA:1125:G:H3'	36:BA:1126:A:H5''	1.78	0.66
36:BA:1290:C:H2'	36:BA:1291:C:C6	2.30	0.66
19:CS:21:GLU:HG3	19:CS:22:LEU:CD2	2.25	0.66
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.96	0.66
35:D9:36:GLN:OE1	36:DA:1124:C:H1'	1.96	0.66
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.30	0.66
27:D1:80:LEU:HD23	27:D1:81:LYS:H	1.61	0.66
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.30	0.66
19:AS:53:ASN:C	19:AS:55:LYS:H	1.98	0.66
46:BO:86:ILE:H	46:BO:86:ILE:HD12	1.61	0.66
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.60	0.66
36:BA:2593:U:H2'	36:BA:2594:C:C6	2.31	0.66
36:DA:328:U:H4'	56:DY:68:HIS:CD2	2.31	0.66
33:B7:35:ARG:HH11	33:B7:35:ARG:HG2	1.60	0.66
25:AY:681:LYS:HD2	25:AY:681:LYS:O	1.96	0.66
46:DO:86:ILE:HD12	46:DO:86:ILE:H	1.60	0.66
41:BF:18:ARG:HG2	41:BF:19:GLU:H	1.61	0.66
42:DG:63:ILE:HA	42:DG:143:GLU:HG3	1.77	0.66
25:CY:117:GLN:C	25:CY:119:GLU:H	1.98	0.66
42:BG:28:VAL:O	42:BG:31:VAL:HG12	1.96	0.66
36:DA:212:G:H5'	36:DA:212:G:C8	2.29	0.66
56:BY:79:CYS:SG	56:BY:80:GLY:N	2.67	0.66
31:D5:40:LYS:HE2	31:D5:46:CYS:HB3	1.76	0.66
25:AY:407:PRO:HB3	25:AY:452:SER:OG	1.96	0.66
36:DA:2186:G:C3'	36:DA:2187:G:H5''	2.26	0.66
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	1.77	0.66
36:DA:1504:C:C3'	36:DA:1505:C:H5''	2.27	0.66
47:DP:16:ARG:CD	47:DP:18:ARG:H	2.07	0.66
25:AY:519:ARG:NH2	25:AY:678:GLU:CB	2.59	0.66
51:DT:132:LYS:CD	51:DT:132:LYS:H	2.08	0.66
42:BG:114:ILE:O	42:BG:116:ASP:N	2.28	0.66
36:BA:1947:C:C2'	36:BA:1948:G:H5''	2.26	0.66
1:CA:1190:G:H3'	3:CC:3:ASN:HD22	1.60	0.66
9:AI:93:ARG:C	9:AI:95:LYS:H	1.99	0.66
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.96	0.66
2:AB:156:LYS:O	2:AB:157:ARG:CB	2.44	0.66
1:AA:60:A:H5''	1:AA:331:G:H22	1.60	0.66
25:AY:315:LYS:NZ	25:AY:317:MET:HG2	2.11	0.66
36:BA:568:U:H2'	36:BA:570:G:OP2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:74:ARG:HH21	45:DN:83:LYS:HD3	1.61	0.66
3:CC:25:GLY:C	3:CC:27:LYS:H	1.98	0.66
36:DA:1367:A:H2'	36:DA:1368:G:H5'	1.78	0.66
36:DA:822:U:H2'	36:DA:823:G:H8	1.61	0.66
1:CA:948:C:O2'	1:CA:949:A:H5'	1.96	0.66
36:BA:2657:A:O2'	43:BH:160:LYS:HE3	1.96	0.65
56:DY:94:LYS:C	56:DY:102:CYS:HB2	2.17	0.65
45:DN:26:LEU:C	45:DN:26:LEU:HD12	2.16	0.65
47:DP:91:PHE:CE2	47:DP:95:VAL:HG12	2.30	0.65
25:CY:602:LEU:HB3	25:CY:676:TYR:HB3	1.76	0.65
47:BP:85:LEU:HD23	47:BP:85:LEU:N	2.10	0.65
36:DA:2103:C:C3'	36:DA:2104:G:H5''	2.26	0.65
1:AA:148:G:H1	1:AA:174:C:H42	1.42	0.65
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.78	0.65
40:BE:33:VAL:HG12	40:BE:90:THR:H	1.60	0.65
1:CA:1129:C:H2'	1:CA:1139:G:N7	2.11	0.65
36:BA:1541:G:H4'	36:BA:1542:A:C5'	2.26	0.65
36:DA:1558:A:H4'	36:DA:1559:G:O5'	1.96	0.65
39:DD:14:ARG:HG3	39:DD:15:PHE:H	1.59	0.65
1:CA:439:A:H2'	1:CA:441:A:H5'	1.78	0.65
36:BA:1030:G:OP2	48:BQ:128:LYS:HE2	1.96	0.65
22:CV:2:C:H2'	22:CV:3:C:C6	2.30	0.65
13:AM:37:THR:HG21	13:AM:56:LEU:HD22	1.78	0.65
30:B4:14:ILE:N	30:B4:14:ILE:HD12	2.11	0.65
42:DG:126:ASP:HB2	42:DG:130:ASN:HB2	1.76	0.65
1:CA:277:C:O2'	1:CA:278:G:H5'	1.95	0.65
50:DS:20:ARG:HA	50:DS:20:ARG:NE	2.09	0.65
36:BA:272(B):G:H2'	36:BA:272(C):G:C8	2.32	0.65
3:AC:25:GLY:C	3:AC:27:LYS:H	1.99	0.65
1:AA:56:U:H2'	1:AA:57:G:C8	2.31	0.65
25:AY:176:GLY:HA3	25:AY:187:THR:HA	1.78	0.65
36:BA:1049:C:H2'	36:BA:1050:A:H8	1.60	0.65
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	1.95	0.65
45:DN:38:HIS:C	52:DU:67:ALA:HB1	2.16	0.65
25:CY:98:MET:HA	25:CY:101:LEU:HD12	1.78	0.65
41:DF:160:ASN:HD21	41:DF:162:LEU:HD13	1.59	0.65
41:BF:160:ASN:HD21	41:BF:162:LEU:HD13	1.60	0.65
29:B3:6:VAL:HB	29:B3:54:VAL:HG11	1.78	0.65
39:BD:131:LEU:HB2	39:BD:136:ILE:CD1	2.20	0.65
47:DP:146:VAL:O	47:DP:148:LEU:N	2.29	0.65
47:BP:146:VAL:O	47:BP:148:LEU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:82:LEU:HD12	27:B1:82:LEU:N	2.12	0.65
51:DT:118:ARG:HA	51:DT:121:ILE:HB	1.77	0.65
22:AV:71:G:H2'	22:AV:72:C:O4'	1.96	0.65
14:AN:12:ARG:C	14:AN:14:PRO:HD3	2.16	0.65
1:AA:509:A:H3'	1:AA:510:A:C8	2.32	0.65
40:DE:69:LYS:H	40:DE:69:LYS:HE2	1.62	0.65
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.95	0.65
38:BC:90:ALA:HA	38:BC:155:ARG:HH12	1.58	0.65
36:BA:1946:U:H2'	36:BA:1947:C:C6	2.31	0.65
23:AW:51:C:H2'	23:AW:52:G:H5''	1.78	0.65
25:AY:247:ARG:HH11	25:AY:247:ARG:HG3	1.61	0.65
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.95	0.65
36:DA:279:C:C3'	36:DA:280:C:H5''	2.26	0.65
36:BA:1186:G:H2'	36:BA:1187:G:O4'	1.97	0.65
49:BR:78:LYS:HG2	49:BR:78:LYS:O	1.95	0.65
50:DS:54:LEU:O	50:DS:54:LEU:HD13	1.96	0.65
1:CA:953:G:H5'	1:CA:965:A:H61	1.61	0.65
1:CA:585:G:H4'	12:CL:8:ASN:ND2	2.12	0.65
54:BW:40:ASN:O	54:BW:41:LYS:HG2	1.95	0.65
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.78	0.65
39:BD:172:TYR:CD1	39:BD:186:HIS:HA	2.32	0.65
52:DU:25:TRP:O	52:DU:28:ARG:HB2	1.95	0.65
22:CV:46:G:O2'	22:CV:47:U:H5'	1.96	0.65
25:CY:580:MET:O	25:CY:580:MET:HG2	1.94	0.65
25:AY:616:TYR:HB3	25:AY:662:LYS:O	1.95	0.65
1:CA:980:C:H2'	1:CA:981:U:H5'	1.76	0.65
9:CI:112:LYS:HA	9:CI:119:ALA:CB	2.15	0.65
25:CY:191:ASP:HA	25:CY:267:LYS:HE3	1.78	0.65
50:BS:88:ASP:CG	50:BS:89:ARG:H	1.98	0.65
36:DA:2583:G:H2'	36:DA:2584:U:O2	1.96	0.65
49:BR:113:LEU:HD12	49:BR:114:VAL:H	1.60	0.65
56:BY:94:LYS:C	56:BY:102:CYS:HB2	2.16	0.65
47:DP:84:ASN:C	47:DP:86:LYS:H	1.97	0.65
1:CA:1002:G:N2	1:CA:1039:C:H2'	2.11	0.65
13:CM:6:GLY:C	13:CM:8:GLU:H	1.99	0.65
40:BE:51:PHE:O	40:BE:74:PRO:HB3	1.96	0.65
25:CY:168:ILE:HB	25:CY:176:GLY:O	1.96	0.65
36:BA:582:G:H2'	36:BA:583:G:H8	1.61	0.65
19:CS:40:ILE:HG12	19:CS:71:LEU:HD23	1.77	0.65
57:BZ:115:GLY:H	57:BZ:177:PRO:HG3	1.61	0.65
50:DS:34:HIS:CE1	50:DS:54:LEU:HB3	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1678:G:H22	36:BA:1989:G:H22	1.42	0.65
2:AB:22:LYS:H	2:AB:40:HIS:CE1	2.14	0.65
36:BA:688:U:H4'	36:BA:1780:A:C2	2.31	0.65
36:BA:1171:G:H2'	36:BA:1173:G:H4'	1.78	0.65
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.31	0.65
36:DA:2457:U:C2'	36:DA:2458:G:H5'	2.27	0.65
36:BA:1197:G:H2'	36:BA:1198:U:H6	1.60	0.65
28:B2:10:LEU:O	28:B2:14:ARG:HG2	1.96	0.65
36:BA:1865:G:H2'	36:BA:1866:C:H5''	1.77	0.65
26:B0:73:GLY:O	26:B0:75:LEU:N	2.26	0.65
3:AC:110:ASN:ND2	3:AC:140:ARG:HB3	2.11	0.65
36:DA:491:G:H2'	36:DA:492:A:H8	1.61	0.65
24:AX:12:A:H2'	24:AX:12:A:N3	2.10	0.65
25:CY:510:VAL:HG22	25:CY:534:ILE:HD11	1.78	0.65
25:CY:487:ILE:H	25:CY:487:ILE:HD13	1.61	0.65
54:BW:82:LEU:HB3	54:BW:84:ARG:HH12	1.60	0.65
3:AC:68:VAL:HG12	3:AC:70:VAL:HG23	1.77	0.65
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	1.97	0.65
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.76	0.65
43:DH:98:LEU:HD12	43:DH:102:ALA:O	1.97	0.65
32:D6:47:THR:HG23	32:D6:48:VAL:N	2.11	0.65
25:AY:630:GLN:NE2	25:AY:646:PHE:HD2	1.93	0.65
36:DA:2631:G:N2	40:DE:61:ARG:NH1	2.44	0.65
9:CI:77:ILE:O	9:CI:81:ILE:HG12	1.96	0.65
20:AT:29:LYS:O	20:AT:33:ILE:HG13	1.97	0.65
45:BN:125:GLY:HA3	45:BN:126:PRO:O	1.96	0.65
2:AB:120:ALA:O	2:AB:121:LEU:HD23	1.96	0.65
42:BG:112:PRO:C	42:BG:113:ARG:HA	2.17	0.65
1:AA:719:C:O2'	18:AR:49:LYS:HB3	1.95	0.65
26:D0:43:THR:HG22	36:DA:2331:G:O3'	1.97	0.65
57:BZ:78:LYS:H	57:BZ:78:LYS:HD3	1.61	0.65
19:AS:21:GLU:HG3	19:AS:22:LEU:CD2	2.25	0.65
36:DA:359:A:H2'	36:DA:360:G:O4'	1.95	0.65
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.78	0.65
37:DB:87:G:H2'	37:DB:88:C:H3'	1.77	0.65
25:AY:335:LEU:HD11	25:AY:352:VAL:HG11	1.78	0.65
36:DA:1094:U:H2'	36:DA:1096:A:OP2	1.95	0.65
50:BS:65:VAL:O	50:BS:69:VAL:HG12	1.96	0.65
50:DS:49:VAL:HG12	50:DS:50:SER:N	2.11	0.65
36:BA:1094:U:H2'	36:BA:1096:A:OP2	1.95	0.65
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2171:A:H1'	36:DA:2172:U:C6	2.31	0.65
48:DQ:76:LYS:HB3	48:DQ:91:GLU:CG	2.26	0.65
49:DR:62:ALA:O	49:DR:66:VAL:HG23	1.97	0.65
16:CP:9:PHE:CE2	16:CP:18:ARG:CZ	2.79	0.65
22:CV:36:A:H1'	25:CY:503:GLY:H	1.61	0.65
25:CY:312:LEU:O	25:CY:328:ILE:HA	1.97	0.65
25:AY:613:PRO:HG2	25:AY:666:ARG:NE	2.10	0.65
41:DF:160:ASN:HD22	41:DF:161:GLU:N	1.95	0.65
36:DA:2483:C:C3'	36:DA:2484:G:H5''	2.21	0.65
50:BS:30:ARG:HH22	50:BS:62:LYS:HD2	1.60	0.65
48:BQ:27:VAL:HG12	48:BQ:28:ALA:N	2.11	0.65
50:DS:30:ARG:HH22	50:DS:62:LYS:HD2	1.60	0.65
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	2.00	0.65
32:D6:15:GLU:CD	32:D6:44:ARG:HH12	1.99	0.65
25:AY:503:GLY:C	25:AY:505:GLY:H	2.00	0.65
14:CN:12:ARG:C	14:CN:14:PRO:HD3	2.15	0.65
47:DP:58:THR:O	47:DP:61:ARG:HG3	1.97	0.65
36:BA:1504:C:C3'	36:BA:1505:C:H5''	2.27	0.65
40:BE:132:HIS:HA	40:BE:135:HIS:CE1	2.32	0.65
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	1.96	0.65
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.77	0.65
48:DQ:110:THR:HG22	48:DQ:113:GLN:OE1	1.96	0.65
23:CW:22:G:O2'	23:CW:23:C:H5''	1.96	0.65
9:AI:95:LYS:NZ	9:AI:96:LEU:CD1	2.59	0.65
37:DB:13:A:O2'	37:DB:14:U:H3'	1.96	0.65
54:BW:5:ALA:O	54:BW:6:ILE:HB	1.96	0.65
47:BP:122:PRO:HB3	47:BP:141:ALA:HB1	1.79	0.65
1:AA:663:A:O2'	1:AA:664:G:H5'	1.96	0.65
34:B8:25:MET:HG3	47:BP:64:LYS:CB	2.27	0.65
28:B2:10:LEU:HD22	28:B2:14:ARG:NH2	2.12	0.65
25:AY:228:MET:O	25:AY:232:LEU:HD23	1.96	0.65
36:DA:1638:C:H2'	36:DA:1639:U:O4'	1.95	0.65
57:DZ:53:ILE:HG22	57:DZ:71:VAL:HB	1.76	0.65
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.31	0.65
25:CY:264:LEU:O	25:CY:264:LEU:HD23	1.95	0.65
52:BU:95:LEU:HD13	53:BV:4:ILE:HG23	1.77	0.65
40:DE:117:MET:HG2	40:DE:117:MET:O	1.97	0.65
36:BA:2392:A:C8	47:BP:60:MET:HB3	2.23	0.65
47:BP:88:LEU:HD11	47:BP:95:VAL:HG11	1.78	0.65
10:AJ:9:ARG:HG2	10:AJ:69:ASN:OD1	1.96	0.65
36:BA:1840:G:H1	36:BA:1902:C:N4	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:47:ILE:HG22	46:DO:48:PRO:HD2	1.79	0.65
36:DA:1541:G:H4'	36:DA:1542:A:C5'	2.26	0.65
45:DN:126:PRO:O	45:DN:127:ASP:HB2	1.97	0.65
51:BT:83:ILE:HG13	51:BT:84:GLN:N	2.11	0.65
41:DF:157:VAL:CG2	41:DF:194:MET:HG2	2.26	0.65
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.11	0.65
57:DZ:44:PHE:CZ	57:DZ:48:PHE:HD2	2.15	0.65
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.30	0.65
9:AI:33:PHE:CZ	9:AI:47:LEU:HD11	2.32	0.65
27:D1:70:VAL:O	27:D1:74:VAL:HG23	1.97	0.65
43:BH:149:ARG:HA	43:BH:162:ILE:HG13	1.77	0.65
25:AY:679:VAL:HB	25:AY:683:VAL:HB	1.77	0.65
39:BD:65:ILE:HG22	39:BD:104:TYR:HB3	1.77	0.65
1:AA:1493:A:H61	25:AY:579:GLU:HG3	1.62	0.65
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.78	0.65
36:BA:1682:G:H5'	36:BA:1762:A:O2'	1.96	0.65
47:BP:13:ASN:O	47:BP:14:LYS:HB2	1.96	0.65
13:CM:46:LYS:O	13:CM:46:LYS:HD3	1.97	0.65
49:DR:44:LEU:HD13	49:DR:44:LEU:O	1.96	0.65
3:CC:110:ASN:ND2	3:CC:140:ARG:HB3	2.12	0.65
36:DA:1865:G:H2'	36:DA:1866:C:H5''	1.76	0.65
25:CY:88:VAL:HB	25:CY:90:PHE:CE1	2.31	0.65
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.32	0.65
50:BS:35:ILE:HD11	50:BS:99:LYS:HE3	1.79	0.65
57:BZ:168:GLU:HA	57:BZ:168:GLU:OE1	1.96	0.65
34:B8:33:ASN:N	34:B8:36:LYS:HD2	2.12	0.65
25:AY:227:ILE:HD11	25:AY:241:GLU:O	1.96	0.65
39:DD:39:LYS:HZ1	39:DD:87:ASN:HB3	1.60	0.65
22:AV:3:C:O2'	22:AV:4:C:H5'	1.96	0.65
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.26	0.65
51:DT:83:ILE:HG13	51:DT:84:GLN:N	2.12	0.65
25:CY:377:VAL:HG21	25:CY:380:LEU:HD13	1.77	0.65
36:DA:2001:A:H4'	36:DA:2689:U:H2'	1.76	0.65
36:BA:1113:U:H2'	36:BA:1114:G:C8	2.32	0.65
29:B3:28:LEU:N	29:B3:28:LEU:HD23	2.11	0.65
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.31	0.65
36:BA:1223:G:H3'	36:BA:1224:C:C5'	2.26	0.65
36:BA:1223:G:H3'	36:BA:1224:C:H5''	1.78	0.65
56:DY:86:ARG:HB3	56:DY:88:LYS:NZ	2.11	0.65
48:DQ:30:GLY:HA2	48:DQ:107:ALA:HB2	1.79	0.65
48:DQ:43:THR:O	48:DQ:47:ILE:HG13	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:756:C:O2'	36:BA:757:U:H5'	1.95	0.65
46:BO:3:GLN:HB2	46:BO:4:PRO:HD2	1.77	0.65
46:BO:4:PRO:O	46:BO:5:GLN:HB2	1.96	0.65
36:DA:1362:C:O2'	36:DA:1363:C:H5'	1.96	0.65
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.79	0.65
3:CC:41:GLY:O	3:CC:45:LYS:HG3	1.96	0.65
57:DZ:150:LEU:HD23	57:DZ:150:LEU:N	2.11	0.65
36:BA:328:U:H4'	56:BY:68:HIS:CD2	2.31	0.65
26:D0:50:ASN:HB3	26:D0:63:VAL:HG22	1.78	0.65
36:DA:1125:G:H3'	36:DA:1126:A:H5''	1.79	0.65
30:D4:7:PRO:CG	42:DG:61:ALA:HB1	2.27	0.65
47:DP:23:PRO:HB2	47:DP:33:ARG:CD	2.27	0.65
56:BY:25:GLY:HA3	56:BY:39:VAL:CG1	2.26	0.65
32:B6:14:THR:O	32:B6:49:HIS:HA	1.97	0.65
32:B6:15:GLU:CD	32:B6:44:ARG:HH12	1.98	0.65
1:AA:1004:A:H61	1:AA:1034:G:C2'	2.07	0.65
25:AY:9:LEU:C	25:AY:9:LEU:HD23	2.18	0.65
40:BE:61:ARG:HG2	40:BE:62:PRO:HD3	1.77	0.65
51:BT:35:LYS:HZ2	51:BT:41:ARG:NH1	1.94	0.65
47:BP:23:PRO:O	47:BP:33:ARG:HD2	1.97	0.65
5:AE:148:VAL:HG21	8:AH:107:LEU:HD22	1.78	0.65
47:DP:41:ARG:HH11	47:DP:41:ARG:CA	2.08	0.65
26:D0:40:GLN:NE2	26:D0:43:THR:HA	2.12	0.65
36:BA:1052:C:H2'	36:BA:1053:C:C6	2.32	0.65
36:DA:559:G:H22	52:DU:49:HIS:CD2	2.14	0.65
43:BH:124:GLU:CG	43:BH:132:ARG:HG3	2.26	0.65
1:AA:1128:C:C2'	1:AA:1129:C:H5''	2.26	0.65
36:DA:2745:C:H4'	43:DH:142:GLY:O	1.97	0.65
41:DF:89:VAL:HG12	41:DF:90:PHE:N	2.11	0.65
37:BB:96:U:H2'	37:BB:97:G:C8	2.30	0.65
1:AA:301:G:H2'	1:AA:302:G:H8	1.61	0.65
1:AA:164:U:H2'	1:AA:165:C:H6	1.60	0.65
16:CP:9:PHE:HE2	16:CP:18:ARG:CZ	2.10	0.65
2:CB:238:LEU:HG	2:CB:238:LEU:O	1.95	0.65
7:CG:145:ALA:O	7:CG:146:GLU:HB2	1.96	0.65
57:DZ:155:LEU:HD23	57:DZ:155:LEU:H	1.61	0.65
25:CY:580:MET:O	25:CY:584:ILE:HG12	1.96	0.65
1:AA:1392:G:O2'	1:AA:1393:U:H5'	1.96	0.65
30:B4:51:ASP:OD1	30:B4:52:THR:N	2.30	0.65
25:CY:315:LYS:NZ	25:CY:317:MET:HG2	2.11	0.65
36:DA:2012:G:H4'	54:DW:96:ILE:CD1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2439:A:N3	36:BA:2439:A:H2'	2.12	0.65
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.10	0.65
50:DS:88:ASP:CG	50:DS:89:ARG:H	2.00	0.65
50:DS:89:ARG:HG3	50:DS:92:TYR:CA	2.26	0.65
32:B6:47:THR:HG23	32:B6:48:VAL:N	2.11	0.65
25:AY:201:ILE:H	25:AY:201:ILE:CD1	2.09	0.65
25:AY:180:VAL:HG23	25:AY:216:LEU:CD1	2.27	0.65
36:BA:2310:A:O2'	36:BA:2311:A:C5'	2.44	0.65
39:DD:35:LYS:HG2	39:DD:63:ARG:HA	1.78	0.65
36:BA:2312:U:H2'	36:BA:2313:C:C5'	2.27	0.65
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.27	0.65
38:BC:4:HIS:HB3	38:BC:8:TYR:HD2	1.62	0.65
1:CA:1329:A:O2'	1:CA:1330:U:H5'	1.97	0.65
1:AA:1329:A:O2'	1:AA:1330:U:H5'	1.96	0.65
36:DA:784:A:H5''	39:DD:227:ASN:HD21	1.62	0.65
36:DA:1223:G:H3'	36:DA:1224:C:H5''	1.78	0.65
34:D8:25:MET:HG3	47:DP:64:LYS:CB	2.26	0.65
25:AY:115:GLU:HG3	25:AY:118:SER:HB3	1.77	0.65
25:AY:119:GLU:O	25:AY:121:VAL:HG22	1.95	0.65
25:AY:12:LEU:HB3	25:AY:283:PRO:CG	2.27	0.65
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	1.97	0.65
36:BA:143:G:H4'	55:BX:35:THR:HG21	1.77	0.65
31:B5:56:LYS:HG3	31:B5:57:VAL:N	2.04	0.65
56:BY:9:LYS:O	56:BY:28:LYS:HE2	1.97	0.65
32:D6:43:CYS:O	32:D6:44:ARG:HB2	1.96	0.65
47:DP:88:LEU:HD11	47:DP:95:VAL:HG11	1.77	0.65
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	1.96	0.65
46:BO:17:ARG:NE	46:BO:47:ILE:HD11	2.08	0.65
10:CJ:55:LYS:CE	10:CJ:55:LYS:H	2.09	0.65
4:CD:188:LEU:HD12	4:CD:189:PRO:HD2	1.78	0.65
25:AY:152:THR:HA	25:AY:155:GLU:HB3	1.79	0.65
40:DE:63:LEU:HD23	40:DE:63:LEU:O	1.96	0.65
25:AY:272:LEU:O	25:AY:275:ALA:HB3	1.96	0.65
36:DA:881:G:H2'	36:DA:882:G:H5'	1.78	0.65
12:CL:89:ARG:HD3	12:CL:91:LYS:HZ1	1.58	0.65
37:BB:13:A:O2'	37:BB:14:U:H3'	1.97	0.65
50:BS:34:HIS:CE1	50:BS:54:LEU:HB3	2.31	0.65
36:DA:1231:G:H2'	36:DA:1232:G:C8	2.32	0.65
36:BA:2464:C:HO2'	36:BA:2465:C:H6	1.39	0.65
36:DA:977:G:HO2'	36:DA:1001:A:H2	1.45	0.65
33:B7:33:ARG:NH1	36:BA:467:G:OP1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:783:A:H8	36:BA:784:A:H4'	1.61	0.65
1:AA:176:C:H2'	1:AA:177:C:C6	2.31	0.65
47:DP:13:ASN:O	47:DP:14:LYS:HB2	1.97	0.65
36:DA:1794:U:O2'	36:DA:1795:C:H5'	1.97	0.65
22:AV:27:G:H1	22:AV:43:C:H42	1.45	0.65
46:DO:68:GLU:HB3	46:DO:78:ARG:HB2	1.77	0.65
36:DA:271(R):G:O2'	36:DA:271(S):G:H5'	1.97	0.65
1:CA:1109:C:O2'	1:CA:1110:A:H5'	1.97	0.65
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.77	0.65
57:DZ:139:VAL:HG12	57:DZ:141:VAL:HG23	1.79	0.65
41:DF:112:MET:HA	41:DF:115:ALA:HB3	1.78	0.64
36:BA:2732:G:H3'	36:BA:2733:A:H5'	1.79	0.64
31:B5:40:LYS:NZ	31:B5:46:CYS:N	2.44	0.64
45:DN:67:LEU:HB3	45:DN:88:GLU:CG	2.27	0.64
3:CC:59:ARG:HD3	3:CC:64:VAL:HG22	1.79	0.64
25:AY:227:ILE:HG23	25:AY:237:PRO:HG2	1.77	0.64
51:BT:28:VAL:HG22	51:BT:46:GLU:CA	2.25	0.64
51:DT:24:PRO:HD3	51:DT:52:ILE:CD1	2.27	0.64
47:BP:46:LYS:HG2	47:BP:52:GLU:HG2	1.77	0.64
57:DZ:81:ARG:CZ	57:DZ:81:ARG:HB3	2.26	0.64
36:DA:2832:U:H1'	36:DA:2834:G:N3	2.11	0.64
36:BA:1479:G:H5'	36:BA:1558:A:H2	1.62	0.64
36:DA:2713:A:H3'	36:DA:2714:G:C5'	2.27	0.64
57:DZ:143:GLY:C	57:DZ:144:LEU:HD22	2.16	0.64
31:D5:27:PRO:HG3	54:DW:23:LEU:HD11	1.78	0.64
30:D4:16:CYS:SG	30:D4:17:GLY:N	2.70	0.64
25:AY:67:ALA:HB3	25:AY:358:MET:HG3	1.77	0.64
36:DA:528:A:H2	36:DA:2043:C:H5'	1.62	0.64
50:BS:73:LEU:O	50:BS:73:LEU:HD23	1.98	0.64
1:AA:741:G:O2'	1:AA:742:G:H5'	1.98	0.64
36:BA:631:A:OP1	47:BP:64:LYS:HE2	1.97	0.64
1:AA:163:C:O2'	1:AA:164:U:H5'	1.97	0.64
36:DA:1138:G:H2'	36:DA:1139:G:O4'	1.96	0.64
36:DA:852:G:H2'	36:DA:853:G:H8	1.62	0.64
54:DW:40:ASN:O	54:DW:41:LYS:HG2	1.96	0.64
41:BF:32:LEU:O	41:BF:36:VAL:HG23	1.97	0.64
1:AA:52:G:O2'	1:AA:53:A:H5'	1.97	0.64
36:BA:2122:U:H2'	36:BA:2123:G:C8	2.31	0.64
2:AB:62:ALA:O	2:AB:64:ARG:N	2.30	0.64
36:BA:491:G:H2'	36:BA:492:A:H8	1.61	0.64
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:124:PRO:HG2	25:AY:574:GLU:H	1.62	0.64
1:AA:528:C:H41	12:AL:49:ASN:HD21	1.45	0.64
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.12	0.64
10:AJ:78:ASN:HD22	10:AJ:81:THR:CG2	2.10	0.64
42:DG:38:VAL:HG23	42:DG:158:ALA:HB3	1.78	0.64
42:DG:57:ALA:HA	42:DG:90:LEU:CD2	2.26	0.64
41:BF:112:MET:HA	41:BF:115:ALA:HB3	1.77	0.64
45:DN:46:VAL:HG13	45:DN:47:ALA:N	2.08	0.64
45:DN:46:VAL:O	45:DN:47:ALA:HB3	1.96	0.64
36:DA:811:U:O2'	36:DA:812:C:H5''	1.97	0.64
25:AY:485:GLU:CG	25:AY:553:GLY:HA3	2.23	0.64
49:BR:55:ALA:HA	49:BR:80:PHE:CE1	2.32	0.64
1:AA:1002:G:N2	1:AA:1039:C:H2'	2.12	0.64
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.98	0.64
39:DD:35:LYS:NZ	39:DD:35:LYS:HB3	2.12	0.64
39:DD:35:LYS:HD2	39:DD:36:PRO:CA	2.27	0.64
36:BA:2103:C:C3'	36:BA:2104:G:H5''	2.27	0.64
28:D2:63:VAL:HA	28:D2:66:GLU:HG2	1.80	0.64
47:BP:58:THR:O	47:BP:61:ARG:HG3	1.97	0.64
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.79	0.64
2:CB:22:LYS:H	2:CB:40:HIS:CE1	2.15	0.64
1:CA:1128:C:H1'	1:CA:1147:C:H42	1.62	0.64
36:DA:2195:C:O2'	36:DA:2196:C:H5'	1.96	0.64
52:DU:20:LEU:H	52:DU:20:LEU:CD2	2.09	0.64
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.97	0.64
36:DA:1946:U:H2'	36:DA:1947:C:C6	2.32	0.64
39:BD:11:PRO:O	39:BD:13:ARG:N	2.28	0.64
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.96	0.64
2:CB:233:SER:CB	2:CB:234:PRO:HD2	2.28	0.64
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.79	0.64
36:BA:1788:C:O2'	36:BA:1789:A:H5'	1.98	0.64
36:BA:492:A:H2'	36:BA:493:G:O4'	1.96	0.64
36:DA:2074:U:H2'	36:DA:2075:U:C6	2.33	0.64
42:BG:55:LYS:O	42:BG:58:GLN:HG3	1.97	0.64
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.31	0.64
36:DA:1887:C:H3'	36:DA:1888:G:H5''	1.78	0.64
32:D6:40:CYS:HB2	32:D6:46:HIS:CE1	2.31	0.64
36:DA:756:C:O2'	36:DA:757:U:H5'	1.97	0.64
36:DA:25:U:H5''	54:DW:80:PRO:HD3	1.77	0.64
55:BX:57:LEU:HD13	55:BX:57:LEU:N	2.11	0.64
25:AY:25:LYS:NZ	25:AY:86:GLY:HA2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:110:SER:HA	25:CY:149:VAL:HG21	1.79	0.64
56:DY:76:CYS:HB3	56:DY:96:ILE:CD1	2.22	0.64
12:CL:18:VAL:CG2	12:CL:19:ARG:H	1.97	0.64
56:DY:13:VAL:HG22	56:DY:14:LEU:H	1.62	0.64
45:DN:3:THR:HG22	45:DN:4:TYR:H	1.62	0.64
3:CC:59:ARG:CG	3:CC:64:VAL:HA	2.27	0.64
39:DD:34:VAL:C	39:DD:36:PRO:HD2	2.17	0.64
50:DS:74:ALA:HB1	50:DS:103:GLU:CB	2.28	0.64
25:AY:9:LEU:HD22	25:AY:284:LEU:HB2	1.79	0.64
40:DE:77:ILE:HG22	40:DE:78:LEU:HD12	1.80	0.64
40:BE:69:LYS:H	40:BE:69:LYS:HE2	1.62	0.64
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.78	0.64
41:DF:78:ILE:HA	41:DF:83:PHE:CD2	2.31	0.64
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.10	0.64
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.28	0.64
36:BA:2196:C:O2'	36:BA:2197:U:H5'	1.97	0.64
25:CY:78:ARG:HH11	25:CY:78:ARG:HG3	1.62	0.64
26:D0:42:GLY:HA3	36:DA:2331:G:O4'	1.98	0.64
1:CA:1026:G:C2'	1:CA:1027:C:H5'	2.26	0.64
12:AL:46:LYS:HB2	12:AL:92:ASP:O	1.96	0.64
1:CA:736:C:H2'	1:CA:737:A:H8	1.61	0.64
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.79	0.64
3:CC:130:VAL:HG11	3:CC:157:ILE:HG23	1.79	0.64
48:BQ:60:ARG:HB2	48:BQ:60:ARG:NH1	2.12	0.64
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.63	0.64
54:DW:14:PRO:HG2	54:DW:78:GLU:HB2	1.79	0.64
1:AA:630:G:C2'	1:AA:631:G:H5'	2.27	0.64
27:D1:51:VAL:HG21	27:D1:74:VAL:HG21	1.80	0.64
27:D1:60:PHE:CE1	27:D1:91:LYS:HG3	2.32	0.64
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.38	0.64
36:BA:2794:C:H42	36:BA:2801(A):A:H61	1.44	0.64
36:DA:783:A:H8	36:DA:784:A:H4'	1.63	0.64
36:DA:1113:U:H2'	36:DA:1114:G:C8	2.32	0.64
36:DA:1114:G:C2'	36:DA:1115:G:H5'	2.28	0.64
1:CA:164:U:H2'	1:CA:165:C:C6	2.32	0.64
33:D7:33:ARG:NH1	36:DA:467:G:OP1	2.29	0.64
36:DA:55:G:H2'	36:DA:56:A:C8	2.32	0.64
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.11	0.64
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.32	0.64
16:AP:74:LEU:HD23	16:AP:79:VAL:HG21	1.79	0.64
36:BA:1362:C:O2'	36:BA:1363:C:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:53:LEU:HD21	17:CQ:85:VAL:HG11	1.79	0.64
27:B1:19:GLN:O	27:B1:35:THR:HG22	1.98	0.64
41:BF:178:PRO:HG2	41:BF:179:GLU:OE1	1.97	0.64
26:D0:45:PHE:O	26:D0:59:LEU:HD11	1.97	0.64
19:CS:6:LYS:H	19:CS:6:LYS:CE	2.10	0.64
36:DA:1036:G:OP1	43:DH:59:ARG:HD2	1.97	0.64
24:CX:11:A:O2'	24:CX:12:A:P	2.56	0.64
25:CY:506:GLN:NE2	36:DA:1913:A:H62	1.93	0.64
38:DC:128:LEU:HD13	38:DC:131:ILE:HB	1.79	0.64
25:CY:264:LEU:HD22	25:CY:265:LYS:HZ2	1.62	0.64
25:CY:483:TYR:O	25:CY:558:PHE:HB3	1.97	0.64
36:DA:1043:C:C3'	36:DA:1044:G:H5''	2.27	0.64
52:BU:79:PHE:HE1	52:BU:83:LEU:HD11	1.62	0.64
53:BV:21:ARG:O	53:BV:22:VAL:HG13	1.97	0.64
42:BG:16:ARG:O	42:BG:20:ILE:HG13	1.98	0.64
57:DZ:29:TYR:O	57:DZ:30:ASN:HB3	1.96	0.64
32:D6:6:ARG:O	32:D6:7:ILE:HB	1.98	0.64
36:DA:143:G:H4'	55:DX:35:THR:HG21	1.78	0.64
36:DA:2344:U:H4'	36:DA:2345:G:OP1	1.96	0.64
36:DA:2055:C:H4'	36:DA:2056:G:H5''	1.78	0.64
51:DT:28:VAL:HG13	51:DT:46:GLU:HA	1.78	0.64
10:AJ:6:ILE:CD1	10:AJ:72:VAL:HB	2.25	0.64
36:BA:2186:G:C3'	36:BA:2187:G:H5''	2.27	0.64
3:AC:59:ARG:HD3	3:AC:64:VAL:HG22	1.79	0.64
6:CF:33:TYR:HA	6:CF:71:ARG:HH21	1.62	0.64
51:DT:35:LYS:NZ	51:DT:41:ARG:NH1	2.45	0.64
1:AA:1228:C:OP1	13:AM:115:LYS:HG3	1.98	0.64
52:DU:20:LEU:N	52:DU:20:LEU:HD22	2.09	0.64
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.13	0.64
26:B0:43:THR:HG22	36:BA:2331:G:O3'	1.97	0.64
25:AY:145:ASP:HB3	25:AY:148:LEU:HD22	1.78	0.64
3:AC:16:ARG:CB	3:AC:16:ARG:HH11	2.11	0.64
19:AS:40:ILE:HG12	19:AS:71:LEU:HD23	1.80	0.64
1:CA:1298:C:H2'	1:CA:1298:C:O2	1.96	0.64
1:CA:275:G:H5''	17:CQ:14:LYS:CB	2.27	0.64
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.10	0.64
36:DA:1132:A:H2'	36:DA:1133:U:H6	1.61	0.64
46:BO:115:VAL:HG13	46:BO:121:VAL:HG21	1.78	0.64
36:BA:822:U:H2'	36:BA:823:G:H8	1.62	0.64
42:BG:165:THR:HG1	42:BG:168:GLU:HG3	1.62	0.64
57:BZ:150:LEU:N	57:BZ:150:LEU:HD23	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:67:ILE:N	27:D1:68:PRO:HD2	2.12	0.64
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.12	0.64
54:DW:82:LEU:N	54:DW:82:LEU:HD12	2.13	0.64
54:BW:82:LEU:HD12	54:BW:82:LEU:N	2.12	0.64
50:DS:89:ARG:O	50:DS:92:TYR:HB3	1.97	0.64
36:DA:211:A:H2'	36:DA:212:G:C5'	2.22	0.64
2:CB:223:ILE:HG23	2:CB:226:ARG:NH1	2.11	0.64
2:CB:82:ARG:HH11	2:CB:82:ARG:HG3	1.62	0.64
39:BD:35:LYS:HD2	39:BD:36:PRO:CA	2.25	0.64
47:DP:105:LEU:H	47:DP:105:LEU:HD12	1.62	0.64
36:BA:2188:C:H2'	36:BA:2189:U:C6	2.32	0.64
28:B2:69:ARG:CG	28:B2:70:GLN:N	2.58	0.64
20:CT:29:LYS:O	20:CT:33:ILE:HG13	1.96	0.64
40:BE:49:LEU:HD22	40:BE:49:LEU:N	2.12	0.64
8:AH:104:ARG:O	8:AH:106:GLY:N	2.30	0.64
3:CC:86:VAL:O	3:CC:90:GLU:HG2	1.98	0.64
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	2.11	0.64
1:AA:1190:G:H3'	3:AC:3:ASN:HD22	1.62	0.64
26:D0:19:LYS:HD3	26:D0:41:ARG:HH22	1.63	0.64
1:AA:627:G:O2'	1:AA:628:G:H5'	1.97	0.64
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.55	0.64
1:CA:555:C:H2'	1:CA:556:C:C6	2.32	0.64
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.12	0.64
9:AI:125:TYR:HD1	9:AI:126:SER:N	1.95	0.64
1:CA:1298:C:H1'	1:CA:1299:A:C6	2.33	0.64
4:CD:112:VAL:HG12	4:CD:116:GLN:NE2	2.12	0.64
37:BB:91:C:H5'	48:BQ:17:LEU:O	1.98	0.64
12:AL:23:LYS:O	12:AL:24:VAL:HG23	1.96	0.64
43:DH:159:GLU:HG3	43:DH:160:LYS:N	2.13	0.64
54:DW:1:MET:HE3	54:DW:2:GLU:H	1.61	0.64
36:BA:1810:A:H2'	36:BA:1811:G:O4'	1.98	0.64
2:CB:139:LYS:O	2:CB:143:GLU:HG2	1.98	0.64
26:B0:50:ASN:HB3	26:B0:63:VAL:HG22	1.80	0.64
25:AY:443:HIS:CE1	25:AY:445:GLU:HB2	2.31	0.64
36:BA:2171:A:H1'	36:BA:2172:U:C6	2.33	0.64
49:BR:11:ASN:OD1	49:BR:12:ARG:N	2.30	0.64
24:AX:11:A:C1'	24:AX:12:A:N7	2.52	0.64
25:CY:95:GLU:O	25:CY:99:ARG:HD3	1.97	0.64
41:BF:160:ASN:HD22	41:BF:161:GLU:N	1.94	0.64
36:DA:1109:C:H5'	36:DA:1110:G:OP2	1.96	0.64
36:BA:1043:C:C3'	36:BA:1044:G:H5''	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:26:GLU:HA	15:CO:81:LEU:HD22	1.80	0.64
45:DN:39:ARG:HB2	45:DN:41:ASP:OD1	1.98	0.64
53:DV:39:LEU:HD12	53:DV:50:PRO:O	1.97	0.64
45:BN:120:LEU:HD11	45:BN:122:VAL:HG23	1.79	0.64
45:BN:133:GLN:HG2	45:BN:134:ARG:N	2.12	0.64
49:DR:45:ARG:CG	49:DR:46:GLY:H	2.09	0.64
36:BA:2807:G:H1	36:BA:2893:G:H1	1.46	0.64
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.80	0.64
1:CA:972:C:OP2	10:CJ:57:LYS:HG2	1.97	0.64
23:AW:51:C:H3'	23:AW:52:G:H5''	1.79	0.64
51:DT:5:ALA:O	51:DT:7:ILE:N	2.30	0.64
38:DC:185:LYS:N	38:DC:185:LYS:HE3	2.12	0.64
36:DA:1477:A:H5'	36:DA:1478:G:OP2	1.97	0.64
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.97	0.64
29:D3:35:ARG:HD3	29:D3:37:LEU:HD21	1.78	0.64
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.61	0.64
54:DW:68:ARG:CA	54:DW:110:LYS:HG2	2.27	0.64
36:DA:1999:C:O2'	36:DA:2000:G:H5'	1.97	0.64
43:DH:149:ARG:HA	43:DH:162:ILE:HG13	1.79	0.64
36:DA:2794:C:H42	36:DA:2801(A):A:H61	1.44	0.64
38:DC:50:ILE:HB	38:DC:57:GLN:HG2	1.80	0.64
39:DD:226:MET:HB3	39:DD:230:ASP:HB2	1.80	0.64
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE1	2.16	0.64
13:CM:54:VAL:O	13:CM:58:GLU:HG2	1.98	0.64
2:CB:156:LYS:O	2:CB:157:ARG:CB	2.45	0.64
39:DD:65:ILE:HG22	39:DD:104:TYR:HB3	1.80	0.64
38:BC:135:ARG:HD2	38:BC:135:ARG:N	2.12	0.64
13:AM:40:ASN:ND2	13:AM:42:ALA:HB3	2.12	0.64
46:DO:115:VAL:HG13	46:DO:121:VAL:HG21	1.77	0.64
1:CA:1010:G:N1	1:CA:1020:U:H1'	2.13	0.64
42:DG:133:LEU:CD1	42:DG:157:ILE:HB	2.27	0.64
55:BX:27:THR:HB	55:BX:80:ILE:HG22	1.80	0.64
25:CY:14:ASN:O	25:CY:101:LEU:HB2	1.98	0.64
41:BF:25:PRO:CG	41:BF:119:ARG:HB2	2.28	0.64
47:DP:23:PRO:O	47:DP:33:ARG:HD2	1.98	0.64
2:CB:223:ILE:HG12	2:CB:226:ARG:CZ	2.27	0.64
25:AY:211:GLU:HB2	25:AY:215:LYS:NZ	2.13	0.64
28:D2:65:ASN:ND2	36:DA:112:U:H5'	2.11	0.64
13:CM:3:ARG:HG2	13:CM:9:ILE:CD1	2.26	0.64
23:AW:1:C:H2'	23:AW:2:G:H8	1.62	0.64
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:28:C:H2'	23:AW:29:G:H8	1.62	0.64
25:AY:92:ILE:HG12	25:AY:405:PRO:CG	2.26	0.64
38:DC:90:ALA:HA	38:DC:155:ARG:HH12	1.60	0.64
1:CA:1199:U:H4'	10:CJ:54:PHE:CE1	2.32	0.64
52:BU:20:LEU:HD22	52:BU:20:LEU:N	2.11	0.64
37:DB:65:C:H41	37:DB:109:C:H2'	1.62	0.64
36:BA:2200:C:N4	36:BA:2223:G:H1	1.94	0.64
1:AA:1442(A):G:H22	51:BT:119:LYS:HG3	1.62	0.64
36:DA:676:A:H1'	36:DA:2443:C:H1'	1.77	0.64
36:DA:2629:A:N3	36:DA:2629:A:H2'	2.13	0.64
3:CC:173:VAL:HG12	3:CC:175:LEU:CD1	2.28	0.64
36:DA:279:C:C2'	36:DA:280:C:H5''	2.26	0.64
29:D3:28:LEU:N	29:D3:28:LEU:HD23	2.13	0.64
36:BA:1775:U:H2'	36:BA:1776:G:C5'	2.27	0.64
8:AH:123:GLU:O	8:AH:127:LEU:HD23	1.97	0.64
1:CA:630:G:C2'	1:CA:631:G:H5'	2.27	0.64
56:BY:86:ARG:HB3	56:BY:88:LYS:NZ	2.12	0.64
38:BC:50:ILE:HB	38:BC:57:GLN:HG2	1.79	0.64
1:CA:1005:A:OP1	1:CA:1006:C:N3	2.31	0.64
36:DA:272(B):G:H2'	36:DA:272(C):G:C8	2.31	0.64
1:AA:1005:A:OP1	1:AA:1006:C:N3	2.31	0.64
17:CQ:9:VAL:HG12	17:CQ:56:VAL:HG22	1.78	0.64
36:BA:55:G:H2'	36:BA:56:A:C8	2.32	0.64
36:DA:1796:U:OP1	39:DD:276:LYS:HE3	1.97	0.64
43:BH:136:ILE:HD12	43:BH:136:ILE:N	2.13	0.64
19:CS:53:ASN:C	19:CS:55:LYS:H	1.99	0.64
13:AM:80:ARG:O	13:AM:83:ASP:HB3	1.98	0.64
6:AF:63:TYR:O	6:AF:65:VAL:HG13	1.98	0.64
39:DD:45:ASN:HB2	39:DD:46:GLN:OE1	1.98	0.64
17:AQ:22:LEU:HD11	17:AQ:39:SER:HB2	1.79	0.64
25:CY:14:ASN:HB2	25:CY:102:ASP:OD1	1.96	0.64
59:CY:701:FUA:H122	59:CY:701:FUA:C23	2.28	0.64
53:BV:51:VAL:HG12	53:BV:52:VAL:N	2.11	0.64
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.78	0.64
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.80	0.64
47:DP:23:PRO:HD2	47:DP:33:ARG:HH21	1.63	0.64
50:DS:30:ARG:NH2	50:DS:62:LYS:HD2	2.12	0.64
36:BA:272(H):C:H5'	36:BA:272(H):C:H6	1.63	0.64
36:BA:272(J):C:N4	36:BA:363:G:H22	1.96	0.64
2:AB:82:ARG:HH11	2:AB:82:ARG:HG3	1.63	0.64
25:CY:601:ILE:HD12	25:CY:684:GLN:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:241:GLU:O	25:AY:244:ALA:HB3	1.96	0.64
51:DT:115:ARG:HH11	51:DT:115:ARG:CB	2.11	0.64
41:BF:185:ASP:HA	41:BF:188:ARG:CD	2.28	0.64
47:BP:6:LEU:HB3	47:BP:9:ASN:ND2	2.12	0.64
50:DS:74:ALA:HB1	50:DS:103:GLU:HB2	1.80	0.64
51:BT:35:LYS:NZ	51:BT:41:ARG:NH1	2.46	0.64
40:DE:51:PHE:O	40:DE:74:PRO:HB3	1.98	0.64
51:DT:35:LYS:HZ3	51:DT:41:ARG:HD2	1.60	0.64
40:BE:199:ARG:HB3	40:BE:200:GLU:OE1	1.98	0.64
1:AA:1226:C:H41	13:AM:104:ARG:HD2	1.61	0.64
23:AW:61:C:H2'	23:AW:62:C:C6	2.33	0.64
39:DD:118:VAL:HG12	39:DD:129:ASN:OD1	1.98	0.64
43:DH:16:SER:HB2	43:DH:27:LYS:CB	2.27	0.64
36:BA:1477:A:H5'	36:BA:1478:G:OP2	1.98	0.64
1:AA:1128:C:H1'	1:AA:1147:C:H42	1.63	0.64
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.97	0.64
49:BR:83:ILE:HA	49:BR:86:ARG:HD3	1.80	0.64
54:BW:68:ARG:CA	54:BW:110:LYS:HG2	2.26	0.64
25:AY:335:LEU:CD2	25:AY:355:LEU:HD11	2.28	0.64
8:AH:41:ARG:HH22	8:AH:123:GLU:CD	2.00	0.64
37:BB:15:A:H3'	37:BB:16:G:H5'	1.79	0.64
36:BA:1367:A:H2'	36:BA:1368:G:H5'	1.79	0.64
1:CA:270:A:H2'	1:CA:271:C:C6	2.32	0.64
1:CA:833:U:H2'	1:CA:834:C:C6	2.33	0.64
43:BH:18:GLU:HB2	43:BH:25:LYS:HB2	1.80	0.64
1:CA:415:A:H2'	1:CA:416:G:C8	2.33	0.64
30:D4:10:VAL:CG2	30:D4:11:PRO:HD2	2.27	0.64
59:AY:701:FUA:C20	59:AY:701:FUA:H5	2.12	0.64
43:BH:159:GLU:HG3	43:BH:160:LYS:N	2.13	0.64
50:BS:30:ARG:NH2	50:BS:62:LYS:HD2	2.12	0.64
30:B4:10:VAL:CG2	30:B4:11:PRO:HD2	2.27	0.64
10:CJ:78:ASN:HD22	10:CJ:81:THR:CG2	2.11	0.64
57:DZ:57:ILE:N	57:DZ:57:ILE:HD12	2.11	0.64
36:DA:1803:A:O3'	39:DD:259:THR:CG2	2.42	0.64
28:B2:7:ARG:HG3	28:B2:7:ARG:HH11	1.62	0.64
47:BP:91:PHE:CE2	47:BP:95:VAL:HG12	2.33	0.64
28:D2:39:ALA:HA	28:D2:45:SER:HB3	1.78	0.64
9:AI:114:TYR:CD2	10:AJ:60:ARG:HG3	2.32	0.64
25:AY:8:ASP:O	25:AY:9:LEU:HB3	1.97	0.64
30:D4:51:ASP:OD1	30:D4:52:THR:N	2.31	0.64
51:BT:5:ALA:O	51:BT:7:ILE:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:118:PRO:HG2	43:BH:121:ILE:HD12	1.80	0.64
3:CC:6:HIS:CD2	3:CC:7:PRO:HD2	2.32	0.64
20:CT:86:ARG:HH11	20:CT:86:ARG:HG3	1.63	0.64
9:CI:93:ARG:C	9:CI:95:LYS:H	2.00	0.64
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.79	0.64
12:CL:38:THR:HG23	12:CL:57:LYS:HB3	1.78	0.64
1:CA:475:G:O2'	1:CA:476:G:H5'	1.98	0.64
25:AY:603:GLU:O	25:AY:676:TYR:HA	1.98	0.64
36:DA:26:G:OP1	54:DW:80:PRO:HB3	1.98	0.64
36:DA:2716:U:O2'	36:DA:2717:G:H5'	1.97	0.64
25:CY:467:LYS:O	25:CY:471:LYS:HA	1.97	0.64
37:BB:20:C:O2'	37:BB:21:G:H5''	1.98	0.64
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.38	0.64
36:BA:1099:G:H2'	36:BA:1100:C:O4'	1.98	0.64
36:DA:1183:G:O2'	36:DA:1184:G:H5'	1.97	0.64
36:DA:1099:G:H2'	36:DA:1100:C:O4'	1.98	0.64
27:D1:3:LYS:HG3	27:D1:4:VAL:H	1.61	0.64
25:AY:132:ARG:O	25:AY:256:THR:HG23	1.98	0.64
54:DW:82:LEU:HB3	54:DW:84:ARG:HH12	1.63	0.64
25:CY:553:GLY:O	25:CY:557:GLY:HA2	1.98	0.64
36:DA:1052:C:H2'	36:DA:1053:C:C6	2.33	0.64
1:CA:1404:C:O2	1:CA:1404:C:H2'	1.96	0.64
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.80	0.64
42:BG:68:PRO:HB2	42:BG:90:LEU:HD11	1.79	0.64
41:DF:7:TYR:HB3	41:DF:16:GLY:C	2.18	0.64
1:AA:1516:G:H2'	1:AA:1518:A:OP2	1.97	0.64
56:DY:79:CYS:SG	56:DY:80:GLY:N	2.70	0.64
31:D5:40:LYS:NZ	31:D5:46:CYS:N	2.45	0.64
47:DP:6:LEU:HB3	47:DP:9:ASN:ND2	2.12	0.64
1:CA:1004:A:C5'	1:CA:1025:U:H3	2.09	0.64
26:D0:27:GLU:HA	26:D0:67:VAL:O	1.97	0.64
51:BT:80:SER:CB	51:BT:81:PRO:HD3	2.28	0.64
47:DP:16:ARG:HD3	47:DP:18:ARG:N	2.09	0.64
47:BP:23:PRO:HB2	47:BP:33:ARG:CD	2.27	0.64
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.27	0.64
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.28	0.64
1:AA:972:C:OP2	10:AJ:57:LYS:HG2	1.97	0.64
25:CY:13:ARG:HB3	25:CY:79:ILE:HG23	1.80	0.64
36:BA:1796:U:OP1	39:BD:276:LYS:HE3	1.97	0.64
39:DD:91:ARG:HG2	39:DD:91:ARG:NH1	2.12	0.64
40:DE:57:LYS:HZ3	40:DE:63:LEU:HG	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:54:ALA:HB1	54:BW:107:LEU:HD21	1.80	0.64
36:DA:902:C:H2'	36:DA:903:C:C6	2.33	0.64
36:DA:1389:G:H2'	36:DA:1390:U:C6	2.33	0.64
25:AY:578:SER:HB3	25:AY:581:ALA:CB	2.28	0.64
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.78	0.64
1:AA:59:A:N3	1:AA:59:A:H2'	2.13	0.64
36:DA:491:G:H2'	36:DA:492:A:C8	2.33	0.64
27:D1:64:ALA:HA	27:D1:67:ILE:HD11	1.80	0.64
36:DA:2348:U:H2'	36:DA:2349:G:C5'	2.28	0.64
55:DX:44:GLU:HB2	55:DX:49:VAL:O	1.98	0.64
41:DF:32:LEU:O	41:DF:36:VAL:HG23	1.98	0.64
53:BV:25:LEU:H	53:BV:92:THR:HG21	1.63	0.64
1:CA:992:U:H1'	1:CA:993:G:C2	2.33	0.64
22:AV:11:C:O2'	22:AV:12:U:H5'	1.97	0.64
37:BB:35:U:O2	37:BB:35:U:H2'	1.98	0.64
57:DZ:79:ARG:O	57:DZ:80:ARG:HB2	1.97	0.64
1:AA:948:C:O2'	1:AA:949:A:H5'	1.97	0.64
36:BA:2518:A:H5''	36:BA:2519:U:OP2	1.97	0.64
36:BA:1080:C:O2'	36:BA:1081:U:H5'	1.98	0.64
40:DE:25:VAL:HG22	40:DE:183:LEU:HG	1.79	0.64
24:AX:11:A:O2'	24:AX:12:A:P	2.56	0.63
25:AY:21:ILE:HD12	25:AY:88:VAL:HG13	1.80	0.63
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.33	0.63
36:DA:2310:A:O2'	36:DA:2311:A:C5'	2.46	0.63
22:CV:56:C:H1'	42:DG:76:SER:OG	1.97	0.63
36:BA:2646:C:OP2	36:BA:2732:G:H2'	1.97	0.63
41:BF:7:TYR:HB3	41:BF:16:GLY:C	2.19	0.63
32:D6:15:GLU:OE2	32:D6:44:ARG:NH1	2.30	0.63
47:BP:85:LEU:CD2	47:BP:85:LEU:H	2.08	0.63
47:BP:16:ARG:HB2	47:BP:16:ARG:NH1	2.13	0.63
36:DA:1237:A:O2'	36:DA:1238:G:O4'	2.15	0.63
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.28	0.63
2:CB:31:TYR:O	2:CB:42:ILE:HG13	1.98	0.63
52:DU:56:ASP:O	52:DU:59:ARG:HB2	1.98	0.63
25:CY:276:VAL:HA	25:CY:280:LEU:HD23	1.80	0.63
36:BA:144:C:H2'	36:BA:145:G:C8	2.33	0.63
36:BA:419:C:H2'	36:BA:420:C:C6	2.32	0.63
36:BA:881:G:H2'	36:BA:882:G:H5'	1.78	0.63
25:AY:311:ALA:HB2	25:AY:330:VAL:HA	1.80	0.63
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.33	0.63
26:D0:70:GLN:NE2	26:D0:80:HIS:NE2	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:23:A:H2'	22:AV:24:G:H8	1.63	0.63
26:D0:73:GLY:O	26:D0:75:LEU:N	2.29	0.63
25:AY:496:LYS:HE2	25:AY:498:ILE:HD13	1.80	0.63
36:DA:1151:G:H5''	52:DU:81:HIS:CE1	2.33	0.63
1:CA:718:G:C8	11:CK:116:HIS:HB3	2.33	0.63
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.97	0.63
36:BA:2537:U:H2'	36:BA:2538:C:C6	2.33	0.63
5:AE:36:ASP:OD1	5:AE:38:GLN:HB2	1.97	0.63
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.79	0.63
1:CA:52:G:O2'	1:CA:53:A:H5'	1.99	0.63
13:CM:40:ASN:ND2	13:CM:42:ALA:HB3	2.13	0.63
4:CD:192:GLU:H	4:CD:192:GLU:CD	2.01	0.63
42:DG:41:GLN:HG2	42:DG:155:MET:HB3	1.80	0.63
25:AY:112:GLN:O	25:AY:115:GLU:HB3	1.98	0.63
25:AY:22:ASP:O	60:AY:702:GDP:H5'	1.98	0.63
25:AY:555:LEU:HD13	25:AY:601:ILE:HG13	1.81	0.63
28:D2:3:LEU:O	28:D2:3:LEU:HD23	1.98	0.63
32:B6:37:ARG:NH2	36:BA:2286:A:N6	2.46	0.63
47:DP:101:VAL:HB	47:DP:107:LYS:HA	1.79	0.63
25:CY:605:ILE:HG23	25:CY:646:PHE:HB3	1.78	0.63
5:CE:76:ILE:CG2	5:CE:118:ILE:HD13	2.29	0.63
23:AW:14:A:C2'	23:AW:15:G:H5''	2.28	0.63
23:AW:22:G:H2'	23:AW:23:C:C5'	2.28	0.63
40:BE:46:ALA:HA	40:BE:82:ARG:O	1.98	0.63
36:BA:1237:A:O2'	36:BA:1238:G:O4'	2.16	0.63
43:DH:85:LYS:HZ3	43:DH:87:LEU:HG	1.63	0.63
20:CT:90:GLN:HA	20:CT:93:GLU:OE2	1.98	0.63
54:DW:107:LEU:N	54:DW:107:LEU:HD22	2.13	0.63
27:D1:26:ARG:HG3	27:D1:27:GLU:N	2.13	0.63
36:DA:654(M):C:HO2'	36:DA:654(N):G:H8	1.46	0.63
12:AL:27:LEU:O	12:AL:29:GLY:N	2.31	0.63
49:DR:83:ILE:HA	49:DR:86:ARG:HD3	1.80	0.63
37:DB:96:U:H2'	37:DB:97:G:C8	2.33	0.63
36:DA:840:C:C2'	36:DA:841:A:H5''	2.29	0.63
35:D9:27:CYS:SG	35:D9:28:GLU:N	2.71	0.63
57:BZ:84:GLU:O	57:BZ:85:HIS:HB2	1.98	0.63
27:D1:80:LEU:CD2	27:D1:81:LYS:H	2.11	0.63
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.63	0.63
57:BZ:99:TYR:HE1	57:BZ:125:LEU:HD13	1.64	0.63
13:AM:94:ARG:NE	19:AS:82:GLY:N	2.46	0.63
42:BG:129:GLY:HA2	42:BG:169:ALA:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:99:VAL:HG23	3:AC:99:VAL:O	1.98	0.63
24:AX:18:C:H5'	24:AX:19:A:OP1	1.98	0.63
43:DH:12:PRO:CD	43:DH:49:VAL:HG12	2.20	0.63
29:D3:6:VAL:HB	29:D3:54:VAL:HG11	1.79	0.63
45:BN:39:ARG:HB2	45:BN:41:ASP:OD1	1.98	0.63
3:AC:47:LEU:HD11	3:AC:76:VAL:HG12	1.79	0.63
25:AY:252:ASP:HB2	25:AY:254:LYS:CG	2.25	0.63
50:BS:74:ALA:HB1	50:BS:103:GLU:HB2	1.81	0.63
13:AM:3:ARG:HG2	13:AM:9:ILE:CD1	2.28	0.63
45:BN:126:PRO:O	45:BN:127:ASP:HB2	1.98	0.63
9:AI:28:VAL:HG22	9:AI:63:ILE:HB	1.81	0.63
5:AE:81:GLU:HG3	5:AE:90:VAL:HG13	1.81	0.63
1:AA:1442(A):G:H2'	51:BT:118:ARG:HH11	1.63	0.63
1:AA:191:G:H1'	20:AT:105:SER:HA	1.80	0.63
54:DW:54:ALA:HB1	54:DW:107:LEU:HD21	1.80	0.63
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.64	0.63
39:DD:263:ARG:HB2	39:DD:263:ARG:HH11	1.63	0.63
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.34	0.63
2:CB:83:MET:CG	2:CB:234:PRO:HG3	2.27	0.63
40:BE:24:THR:CG2	40:BE:184:VAL:HG23	2.28	0.63
31:D5:45:VAL:HG22	31:D5:51:TYR:CE2	2.34	0.63
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.61	0.63
36:BA:484:C:H2'	36:BA:485:C:C6	2.33	0.63
49:DR:55:ALA:HA	49:DR:80:PHE:CE1	2.33	0.63
36:BA:852:G:H2'	36:BA:853:G:H8	1.63	0.63
25:CY:165:GLN:HE21	25:CY:177:ILE:HG21	1.63	0.63
36:DA:2483:C:H3'	36:DA:2484:G:C5'	2.22	0.63
36:DA:2439:A:H2'	36:DA:2439:A:N3	2.13	0.63
32:B6:28:ARG:O	32:B6:32:ASN:HB2	1.98	0.63
56:BY:13:VAL:HG22	56:BY:14:LEU:H	1.62	0.63
25:AY:608:VAL:HG12	25:AY:609:GLU:H	1.64	0.63
36:DA:1840:G:H1	36:DA:1902:C:N4	1.95	0.63
36:DA:274:G:N3	36:DA:274:G:H2'	2.12	0.63
47:BP:112:LEU:H	47:BP:128:HIS:CD2	2.16	0.63
47:BP:115:LEU:HD23	47:BP:115:LEU:N	2.14	0.63
25:AY:527:ASN:ND2	25:AY:539:ILE:HG21	2.12	0.63
17:CQ:66:SER:O	17:CQ:70:ARG:NH1	2.32	0.63
46:BO:47:ILE:HG22	46:BO:48:PRO:HD2	1.78	0.63
57:DZ:153:SER:HB2	57:DZ:163:LEU:CD1	2.29	0.63
36:DA:2807:G:H1	36:DA:2893:G:H1	1.47	0.63
25:AY:388:THR:HG23	25:AY:399:LEU:HD13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.56	0.63
34:B8:6:THR:CG2	34:B8:63:PRO:HD3	2.28	0.63
52:BU:49:HIS:HA	52:BU:52:ARG:HB2	1.80	0.63
37:DB:91:C:O2'	37:DB:92:C:H5'	1.99	0.63
36:BA:518:G:H4'	54:BW:18:ARG:NH1	2.14	0.63
35:D9:22:ARG:HB2	35:D9:24:TYR:HE1	1.63	0.63
34:B8:42:ARG:O	34:B8:44:LYS:N	2.25	0.63
1:CA:1314:C:H2'	1:CA:1315:U:H6	1.63	0.63
48:BQ:45:GLN:H	48:BQ:45:GLN:NE2	1.97	0.63
42:DG:16:ARG:O	42:DG:20:ILE:HG13	1.99	0.63
56:DY:97:ARG:HG3	56:DY:97:ARG:HH11	1.63	0.63
33:B7:46:VAL:HG12	33:B7:47:ARG:N	2.13	0.63
36:BA:1183:G:O2'	36:BA:1184:G:H5'	1.98	0.63
55:BX:70:LEU:HD23	55:BX:71:GLY:N	2.13	0.63
27:B1:45:ASN:HD21	27:B1:47:GLN:NE2	1.97	0.63
37:DB:20:C:O2'	37:DB:21:G:H5''	1.99	0.63
39:DD:23:GLU:HA	39:DD:23:GLU:OE1	1.97	0.63
25:AY:688:ILE:O	25:AY:688:ILE:HG22	1.97	0.63
36:DA:610:G:N2	36:DA:619:G:H1'	2.13	0.63
36:DA:2312:U:H2'	36:DA:2313:C:C5'	2.26	0.63
41:BF:2:LYS:HD3	41:BF:119:ARG:HG3	1.80	0.63
36:BA:212:G:C8	36:BA:212:G:H5'	2.28	0.63
25:AY:487:ILE:HD13	25:AY:487:ILE:H	1.63	0.63
32:B6:53:LYS:HG3	32:B6:54:ILE:H	1.64	0.63
34:B8:30:ARG:NH2	36:BA:2419:U:O4	2.32	0.63
56:DY:9:LYS:O	56:DY:28:LYS:HE2	1.99	0.63
52:DU:79:PHE:HE1	52:DU:83:LEU:HD11	1.63	0.63
25:AY:609:GLU:HB2	25:AY:670:VAL:HG22	1.80	0.63
31:D5:3:LYS:NZ	36:DA:2613:U:C2'	2.62	0.63
25:CY:670:VAL:HG23	25:CY:671:MET:H	1.63	0.63
27:B1:76:ARG:HH12	27:B1:95:LEU:HD22	1.63	0.63
41:DF:185:ASP:HA	41:DF:188:ARG:CD	2.28	0.63
36:DA:2762:G:H5'	36:DA:2762:G:C8	2.33	0.63
25:AY:537:GLU:O	25:AY:540:PRO:HD2	1.99	0.63
13:CM:22:ILE:HB	13:CM:25:ILE:HD12	1.79	0.63
1:AA:345:C:H5'	1:AA:346:G:OP2	1.98	0.63
36:BA:813:U:H2'	36:BA:814:C:C5	2.34	0.63
1:CA:1128:C:C2'	1:CA:1129:C:H5''	2.28	0.63
51:DT:80:SER:CB	51:DT:81:PRO:HD3	2.28	0.63
43:BH:16:SER:HB2	43:BH:27:LYS:CB	2.27	0.63
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:263:ARG:HB2	39:BD:263:ARG:HH11	1.62	0.63
43:DH:41:MET:O	43:DH:42:ARG:HB3	1.98	0.63
12:AL:27:LEU:HD13	12:AL:28:LYS:H	1.64	0.63
54:BW:50:VAL:HG11	54:BW:103:ILE:HG21	1.79	0.63
36:BA:2000:G:O2'	36:BA:2001:A:H5'	1.99	0.63
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.14	0.63
6:AF:46:ARG:HH22	18:AR:37:VAL:HG21	1.62	0.63
25:AY:680:PRO:C	25:AY:682:GLN:H	2.02	0.63
36:BA:120:U:H5'	36:BA:121:G:OP1	1.98	0.63
46:DO:4:PRO:O	46:DO:5:GLN:HB2	1.98	0.63
3:AC:110:ASN:O	3:AC:141:VAL:HG22	1.98	0.63
36:DA:492:A:H2'	36:DA:493:G:O4'	1.99	0.63
36:DA:2076:U:H5'	36:DA:2238:G:H22	1.63	0.63
37:BB:15:A:H3'	37:BB:16:G:C5'	2.28	0.63
25:CY:517:LEU:HD23	25:CY:521:SER:HB3	1.80	0.63
45:BN:14:VAL:HG11	45:BN:137:LYS:HD2	1.80	0.63
36:BA:1036:G:OP1	43:BH:59:ARG:HD2	1.97	0.63
45:DN:65:LYS:HZ2	45:DN:65:LYS:HB3	1.63	0.63
21:AU:2:GLY:O	21:AU:4:GLY:N	2.32	0.63
13:CM:94:ARG:NE	19:CS:82:GLY:N	2.46	0.63
25:CY:621:ILE:HD11	25:CY:634:MET:HE3	1.78	0.63
36:DA:78:A:O2'	36:DA:79:G:H5'	1.98	0.63
36:DA:1378:A:HO2'	36:DA:1379:A:H5''	1.62	0.63
25:CY:327:PHE:CD1	25:CY:376:ALA:HB2	2.34	0.63
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	1.99	0.63
50:BS:89:ARG:O	50:BS:92:TYR:HB3	1.98	0.63
57:DZ:28:MET:HB3	57:DZ:88:PHE:HB2	1.81	0.63
36:DA:2392:A:C8	47:DP:60:MET:HB3	2.23	0.63
55:DX:35:THR:HG22	55:DX:37:THR:N	2.03	0.63
32:B6:43:CYS:O	32:B6:44:ARG:HB2	1.97	0.63
49:BR:55:ALA:HB2	49:BR:79:LEU:HD11	1.81	0.63
31:B5:3:LYS:HG2	36:BA:747:U:C4	2.34	0.63
26:B0:19:LYS:HD3	26:B0:41:ARG:HH22	1.64	0.63
1:AA:439:A:H2'	1:AA:441:A:H5'	1.80	0.63
40:DE:64:LYS:C	40:DE:66:HIS:H	2.02	0.63
38:BC:185:LYS:N	38:BC:185:LYS:HE3	2.14	0.63
30:D4:12:ALA:HB1	30:D4:29:PRO:HA	1.80	0.63
1:AA:475:G:O2'	1:AA:476:G:H5'	1.98	0.63
36:BA:491:G:H2'	36:BA:492:A:C8	2.33	0.63
17:CQ:53:LEU:HD23	17:CQ:54:GLY:N	2.13	0.63
17:AQ:9:VAL:HG11	17:AQ:84:LEU:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:76:PRO:HG2	39:DD:98:VAL:HG21	1.80	0.63
1:CA:1082:G:O2'	1:CA:1083:U:H5'	1.99	0.63
1:CA:41:G:H2'	1:CA:42:G:H8	1.64	0.63
36:DA:1963:U:O2	36:DA:1963:U:H2'	1.98	0.63
45:BN:43:THR:HG22	45:BN:45:ASN:ND2	2.14	0.63
56:BY:96:ILE:HD12	56:BY:99:CYS:SG	2.39	0.63
50:DS:35:ILE:HD11	50:DS:99:LYS:HE3	1.79	0.63
40:BE:111:ARG:HA	49:BR:2:ARG:CB	2.25	0.63
52:DU:112:ARG:NH1	53:DV:46:VAL:HG21	2.13	0.63
53:DV:19:LYS:HE2	53:DV:19:LYS:HA	1.81	0.63
25:CY:632:LEU:HD12	25:CY:644:ARG:CB	2.29	0.63
25:AY:528:ALA:O	25:AY:568:TYR:HA	1.99	0.63
3:AC:59:ARG:CG	3:AC:64:VAL:HA	2.28	0.63
40:DE:49:LEU:N	40:DE:49:LEU:HD22	2.14	0.63
47:BP:41:ARG:CA	47:BP:41:ARG:HH11	2.12	0.63
42:BG:72:ARG:CB	42:BG:87:PRO:HD2	2.29	0.63
1:CA:1226:C:H41	13:CM:104:ARG:HD2	1.62	0.63
45:DN:125:GLY:HA3	45:DN:126:PRO:O	1.97	0.63
36:BA:1538:G:H2'	36:BA:1539:G:C8	2.33	0.63
2:AB:14:GLY:O	2:AB:15:VAL:HG13	1.98	0.63
39:BD:118:VAL:HG12	39:BD:129:ASN:OD1	1.98	0.63
9:CI:95:LYS:NZ	9:CI:96:LEU:CD1	2.62	0.63
1:AA:1298:C:H1'	1:AA:1299:A:C6	2.33	0.63
35:B9:27:CYS:SG	35:B9:28:GLU:N	2.71	0.63
36:BA:189:G:O2'	36:BA:190:A:H5''	1.98	0.63
36:BA:654(R):C:HO2'	36:BA:654(S):G:H8	1.45	0.63
36:BA:2241:A:H2'	36:BA:2242:G:H8	1.64	0.63
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.34	0.63
42:BG:131:TYR:HB3	42:BG:159:VAL:CG1	2.28	0.63
36:DA:189:G:O2'	36:DA:190:A:H5''	1.99	0.63
8:CH:123:GLU:O	8:CH:127:LEU:HD23	1.98	0.63
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.80	0.63
36:BA:25:U:H5''	54:BW:80:PRO:HD3	1.80	0.63
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.81	0.63
33:B7:41:ARG:HH22	36:BA:460:A:P	2.22	0.63
36:DA:2455:G:H2'	36:DA:2456:C:C6	2.34	0.63
36:BA:730:C:O2'	36:BA:731:C:H5'	1.98	0.63
1:AA:1010:G:N1	1:AA:1020:U:H1'	2.14	0.63
41:DF:50:SER:HB2	41:DF:94:PRO:HD3	1.80	0.63
48:BQ:110:THR:HG22	48:BQ:113:GLN:OE1	1.98	0.63
57:BZ:111:VAL:O	57:BZ:112:ARG:HB2	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:2:GLY:O	21:CU:4:GLY:N	2.32	0.63
53:DV:25:LEU:H	53:DV:92:THR:HG21	1.64	0.63
36:BA:1120:G:H2'	36:BA:1121:C:C6	2.33	0.63
5:CE:9:LYS:HB3	5:CE:112:LEU:HD11	1.79	0.63
41:BF:50:SER:HB2	41:BF:94:PRO:HD3	1.80	0.63
41:BF:165:ARG:HA	41:BF:168:ARG:HD3	1.81	0.63
1:CA:1367:C:H4'	10:CJ:48:THR:HG21	1.81	0.63
40:BE:203:LYS:HE3	40:BE:204:ALA:HB2	1.79	0.63
32:D6:53:LYS:HG3	32:D6:54:ILE:H	1.64	0.63
36:BA:363(B):G:H2'	36:BA:363(C):G:C8	2.34	0.63
56:DY:74:PRO:O	56:DY:80:GLY:HA2	1.99	0.63
53:DV:21:ARG:O	53:DV:22:VAL:HG13	1.99	0.63
12:CL:41:ARG:HG2	12:CL:42:THR:N	2.12	0.63
45:DN:26:LEU:HD12	45:DN:27:ALA:N	2.14	0.63
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.81	0.63
47:BP:101:VAL:HB	47:BP:107:LYS:HA	1.80	0.63
51:BT:91:ARG:HG2	51:BT:116:ALA:HA	1.81	0.63
36:DA:2523:G:O2'	36:DA:2524:G:H5''	1.99	0.63
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.28	0.63
18:AR:29:PHE:CD1	18:AR:29:PHE:N	2.59	0.63
36:DA:1506:C:H2'	36:DA:1506:C:O2	1.98	0.63
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	1.79	0.63
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	1.80	0.63
52:BU:20:LEU:CD2	52:BU:20:LEU:H	2.11	0.63
25:AY:519:ARG:NH1	25:AY:678:GLU:H	1.96	0.63
1:CA:1392:G:O2'	1:CA:1393:U:H5'	1.97	0.63
43:BH:41:MET:O	43:BH:42:ARG:HB3	1.99	0.63
36:BA:2629:A:N3	36:BA:2629:A:H2'	2.13	0.63
6:CF:46:ARG:HH22	18:CR:37:VAL:HG21	1.62	0.63
36:DA:11:G:H2'	36:DA:12:U:H6	1.64	0.63
48:DQ:56:ARG:HH21	57:DZ:180:VAL:HG21	1.62	0.63
25:AY:491:VAL:CG1	25:AY:492:ASP:N	2.62	0.63
36:DA:419:C:H2'	36:DA:420:C:C6	2.33	0.63
22:CV:20:U:H5'	22:CV:21:A:OP2	1.98	0.63
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.33	0.63
7:CG:28:ASN:O	7:CG:31:MET:HB3	1.98	0.63
1:AA:659:U:O2'	1:AA:660:G:H5'	1.99	0.63
36:DA:1171:G:H2'	36:DA:1173:G:H4'	1.79	0.63
7:CG:79:ARG:HD2	7:CG:79:ARG:O	1.99	0.63
36:BA:1887:C:H3'	36:BA:1888:G:H5''	1.79	0.63
27:B1:3:LYS:HE3	36:BA:1364:G:N7	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.98	0.63
42:BG:91:ARG:C	42:BG:91:ARG:HD2	2.19	0.63
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.99	0.63
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.19	0.63
51:BT:125:ARG:HH11	51:BT:125:ARG:CA	2.09	0.63
25:AY:609:GLU:HB3	25:AY:642:VAL:HG13	1.81	0.63
47:DP:85:LEU:CD2	47:DP:85:LEU:H	2.09	0.63
41:BF:28:ILE:O	41:BF:30:PRO:HD3	1.99	0.63
26:B0:26:TYR:HE2	36:BA:857:C:H1'	1.62	0.63
25:CY:5:VAL:HG13	25:CY:6:GLU:N	2.10	0.63
13:AM:22:ILE:HB	13:AM:25:ILE:HD12	1.80	0.63
47:BP:16:ARG:HD3	47:BP:18:ARG:N	2.11	0.63
1:CA:1409:C:O2'	1:CA:1410:G:H5'	1.98	0.63
36:DA:364:C:C2'	36:DA:365:C:H5''	2.28	0.63
2:AB:31:TYR:O	2:AB:42:ILE:HG13	1.99	0.63
40:DE:36:ARG:NH2	40:DE:88:GLY:CA	2.62	0.63
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.12	0.63
36:DA:1827:C:O2'	36:DA:1828:G:H5'	1.98	0.63
46:BO:113:LYS:O	46:BO:117:LEU:HD12	1.99	0.63
36:BA:2001:A:H4'	36:BA:2689:U:H2'	1.79	0.63
25:CY:377:VAL:CG2	25:CY:380:LEU:HD13	2.28	0.63
29:B3:35:ARG:HD3	29:B3:37:LEU:HD21	1.79	0.63
36:BA:840:C:C2'	36:BA:841:A:H5''	2.28	0.63
2:AB:233:SER:CB	2:AB:234:PRO:HD2	2.27	0.63
50:DS:73:LEU:O	50:DS:73:LEU:HD23	1.98	0.63
38:DC:57:GLN:NE2	38:DC:205:ALA:HA	2.13	0.63
49:DR:4:LEU:C	49:DR:6:SER:H	2.02	0.63
25:AY:549:ALA:HB2	25:AY:587:SER:OG	1.99	0.63
36:DA:1080:C:O2'	36:DA:1081:U:H5'	1.99	0.63
2:AB:139:LYS:O	2:AB:143:GLU:HG2	1.99	0.63
55:DX:57:LEU:HD13	55:DX:57:LEU:N	2.14	0.63
37:BB:40:U:H3'	37:BB:41:U:H5''	1.81	0.63
42:DG:111:LEU:HB3	42:DG:117:PHE:CE2	2.33	0.62
25:AY:373:ASP:C	25:AY:374:LEU:HD12	2.18	0.62
36:DA:2646:C:OP2	36:DA:2732:G:H2'	1.98	0.62
50:BS:97:ARG:C	50:BS:97:ARG:NE	2.53	0.62
3:CC:47:LEU:HD23	3:CC:52:LEU:HD13	1.81	0.62
25:CY:227:ILE:HD11	25:CY:241:GLU:HG3	1.80	0.62
3:CC:155:GLY:O	3:CC:156:ARG:HB2	1.99	0.62
36:DA:1971:A:C4	39:DD:241:PRO:HD3	2.34	0.62
39:BD:34:VAL:C	39:BD:36:PRO:HD2	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:106:LEU:HD11	47:DP:112:LEU:HD23	1.81	0.62
47:DP:146:VAL:HG22	47:DP:147:LEU:N	2.10	0.62
25:AY:252:ASP:O	25:AY:253:LEU:HB2	1.99	0.62
47:BP:6:LEU:HG	47:BP:7:ARG:H	1.64	0.62
36:DA:2632:A:N3	40:DE:61:ARG:NH1	2.47	0.62
50:BS:74:ALA:HB1	50:BS:103:GLU:CB	2.29	0.62
40:BE:36:ARG:NH2	40:BE:88:GLY:CA	2.62	0.62
5:AE:145:LYS:HA	8:AH:107:LEU:HD21	1.80	0.62
47:DP:41:ARG:HH11	47:DP:41:ARG:CB	2.11	0.62
1:AA:1321:C:H5'	1:AA:1322:C:C5'	2.30	0.62
54:DW:13:SER:HB3	54:DW:16:LYS:HD2	1.80	0.62
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.80	0.62
52:DU:85:LYS:HD3	52:DU:117:GLN:HE22	1.64	0.62
47:BP:80:TYR:CD1	47:BP:111:ARG:HB3	2.34	0.62
36:BA:555:U:H2'	36:BA:556:G:C8	2.33	0.62
25:AY:301:ILE:HG22	25:AY:332:SER:HB2	1.79	0.62
26:B0:45:PHE:O	26:B0:59:LEU:HD11	1.99	0.62
47:DP:80:TYR:CD1	47:DP:111:ARG:HB3	2.34	0.62
36:BA:693:C:O2'	36:BA:694:U:H5'	1.99	0.62
1:AA:975:A:H5'	1:AA:975:A:H8	1.64	0.62
29:D3:17:LYS:HZ3	29:D3:20:LYS:HE3	1.64	0.62
36:BA:2688:U:H3'	36:BA:2688:U:O2	1.98	0.62
32:D6:43:CYS:HB2	32:D6:44:ARG:HH21	1.64	0.62
39:DD:241:PRO:O	39:DD:242:ARG:HB2	1.98	0.62
28:B2:41:ILE:CD1	28:B2:44:LEU:HD12	2.25	0.62
36:DA:2524:G:C8	36:DA:2524:G:H5'	2.31	0.62
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.14	0.62
47:BP:16:ARG:CZ	47:BP:18:ARG:HG2	2.29	0.62
36:BA:364:C:C2'	36:BA:365:C:H5''	2.29	0.62
12:AL:53:ARG:NH1	12:AL:92:ASP:OD2	2.32	0.62
36:DA:6:A:N3	36:DA:6:A:H2'	2.14	0.62
9:CI:82:ALA:HB1	9:CI:96:LEU:HD11	1.81	0.62
36:DA:2105:C:H2'	36:DA:2106:G:H5'	1.81	0.62
36:BA:1582:C:H2'	36:BA:1583:A:C8	2.34	0.62
1:CA:1325:C:H2'	1:CA:1326:C:C6	2.33	0.62
1:AA:714:G:H2'	1:AA:715:A:C8	2.33	0.62
1:CA:176:C:H2'	1:CA:177:C:C6	2.33	0.62
36:DA:1682:G:H2'	36:DA:1683:C:C6	2.34	0.62
26:B0:49:LYS:H	26:B0:80:HIS:HD1	1.47	0.62
26:B0:70:GLN:NE2	26:B0:80:HIS:NE2	2.47	0.62
45:DN:65:LYS:NZ	45:DN:65:LYS:HB3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:241:PRO:O	39:BD:242:ARG:HB2	1.99	0.62
36:DA:898:C:H2'	36:DA:899:A:O4'	1.99	0.62
43:DH:136:ILE:HD12	43:DH:136:ILE:N	2.14	0.62
48:BQ:136:ALA:C	48:BQ:138:ASP:H	2.02	0.62
36:DA:2518:A:H5''	36:DA:2519:U:OP2	1.99	0.62
42:DG:111:LEU:HD23	42:DG:114:ILE:HD11	1.79	0.62
25:CY:437:THR:HB	25:CY:454:MET:HE1	1.81	0.62
36:BA:1043:C:H2'	36:BA:1044:G:C5'	2.19	0.62
57:BZ:54:HIS:HE1	57:BZ:123:ASP:OD2	1.81	0.62
45:BN:21:LYS:HD2	45:BN:26:LEU:HB3	1.80	0.62
27:B1:80:LEU:HD23	27:B1:81:LYS:N	2.09	0.62
31:B5:4:HIS:HB3	31:B5:5:PRO:CD	2.27	0.62
14:CN:12:ARG:HB2	14:CN:12:ARG:NH1	2.14	0.62
36:DA:2476:A:C2'	36:DA:2477:C:H5''	2.28	0.62
8:CH:104:ARG:O	8:CH:106:GLY:N	2.33	0.62
9:CI:104:ARG:O	9:CI:105:ASP:HB3	1.99	0.62
1:CA:1148:U:O3'	9:CI:14:VAL:HG11	1.99	0.62
42:BG:153:ARG:HB3	42:BG:153:ARG:NH1	2.14	0.62
36:BA:1109:C:H5'	36:BA:1110:G:OP2	1.98	0.62
36:DA:226:G:O2'	36:DA:227:A:C8	2.47	0.62
20:AT:86:ARG:HH11	20:AT:86:ARG:HG3	1.64	0.62
36:BA:6:A:H2'	36:BA:6:A:N3	2.14	0.62
36:DA:2461:C:O2	36:DA:2461:C:H2'	1.99	0.62
29:D3:4:LEU:O	29:D3:36:VAL:HA	1.98	0.62
36:DA:2469:A:H2	36:DA:2481:G:H21	1.46	0.62
50:BS:49:VAL:HG21	50:BS:77:ALA:HB2	1.80	0.62
1:CA:275:G:H2'	1:CA:276:G:H8	1.63	0.62
36:DA:1722:A:O2'	36:DA:1739:U:H5''	1.99	0.62
36:BA:933:A:H2'	36:BA:934:G:O4'	2.00	0.62
39:BD:65:ILE:HD13	39:BD:65:ILE:H	1.62	0.62
2:CB:67:THR:HG22	2:CB:90:MET:SD	2.40	0.62
3:AC:167:TRP:O	3:AC:168:ALA:CB	2.46	0.62
42:DG:165:THR:HB	42:DG:168:GLU:HG3	1.79	0.62
38:DC:79:ALA:HB1	38:DC:83:LYS:HB2	1.81	0.62
1:AA:936:C:O2'	1:AA:937:A:H5'	1.99	0.62
7:AG:145:ALA:O	7:AG:146:GLU:HB2	1.97	0.62
36:DA:1805:U:O2	39:DD:50:THR:HB	1.98	0.62
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG3	1.81	0.62
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.14	0.62
42:DG:138:GLN:HB3	42:DG:153:ARG:O	2.00	0.62
41:DF:25:PRO:CG	41:DF:119:ARG:HB2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:112:ARG:HH22	53:BV:46:VAL:HG11	1.64	0.62
36:DA:636:G:H2'	47:DP:115:LEU:HD12	1.81	0.62
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.17	0.62
51:DT:23:ARG:HA	51:DT:52:ILE:HD11	1.82	0.62
1:CA:1003:G:H1'	1:CA:1039:C:O2	1.99	0.62
51:DT:35:LYS:NZ	51:DT:41:ARG:HH11	1.97	0.62
41:BF:20:LEU:HD22	41:BF:23:ASP:OD2	1.99	0.62
40:DE:199:ARG:HB3	40:DE:200:GLU:OE1	2.00	0.62
2:CB:12:GLU:HA	2:CB:16:HIS:CG	2.35	0.62
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.13	0.62
20:AT:90:GLN:HA	20:AT:93:GLU:OE2	1.99	0.62
1:AA:555:C:H2'	1:AA:556:C:C6	2.34	0.62
36:BA:2469:A:H2	36:BA:2481:G:H21	1.47	0.62
3:AC:130:VAL:HG11	3:AC:157:ILE:HG23	1.81	0.62
46:DO:113:LYS:O	46:DO:117:LEU:HD12	1.99	0.62
57:DZ:91:LEU:CD2	57:DZ:130:PRO:HG3	2.30	0.62
36:BA:902:C:H2'	36:BA:903:C:C6	2.35	0.62
27:D1:60:PHE:HE1	27:D1:91:LYS:HG3	1.64	0.62
1:AA:275:G:H2'	1:AA:276:G:H8	1.64	0.62
36:DA:990:A:H61	53:DV:76:LYS:HZ1	1.46	0.62
36:BA:120:U:O2'	36:BA:149:A:C8	2.52	0.62
30:B4:3:GLU:HG3	37:BB:43:C:OP1	2.00	0.62
1:AA:818:G:O2'	1:AA:819:A:H5'	1.99	0.62
36:DA:723:G:H2'	36:DA:724:U:C6	2.34	0.62
45:DN:14:VAL:HG11	45:DN:137:LYS:HD2	1.81	0.62
22:CV:11:C:O2'	22:CV:12:U:H5'	1.99	0.62
11:AK:79:SER:OG	11:AK:106:LYS:HD2	1.99	0.62
36:DA:555:U:H2'	36:DA:556:G:C8	2.34	0.62
1:AA:418:C:H2'	1:AA:419:C:C6	2.35	0.62
36:BA:2348:U:H2'	36:BA:2349:G:C5'	2.29	0.62
36:BA:898:C:H2'	36:BA:899:A:O4'	1.99	0.62
41:BF:25:PRO:HG3	41:BF:119:ARG:CB	2.30	0.62
36:BA:2483:C:H3'	36:BA:2484:G:C5'	2.22	0.62
25:CY:491:VAL:CG1	25:CY:492:ASP:N	2.62	0.62
45:BN:3:THR:HG22	45:BN:4:TYR:H	1.63	0.62
36:BA:274:G:H2'	36:BA:274:G:N3	2.13	0.62
36:DA:84:A:H5'	56:DY:9:LYS:CB	2.29	0.62
52:DU:112:ARG:HH22	53:DV:46:VAL:HG11	1.63	0.62
32:D6:37:ARG:NH2	36:DA:2286:A:N6	2.45	0.62
36:DA:2050:C:H1'	40:DE:156:MET:CE	2.28	0.62
7:CG:37:ASN:HD21	9:CI:40:LEU:HA	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:23:ARG:HA	51:DT:52:ILE:CD1	2.28	0.62
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.81	0.62
36:BA:943:U:OP2	47:BP:38:GLN:CD	2.38	0.62
9:CI:79:LEU:HD11	9:CI:83:ARG:HD2	1.81	0.62
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.28	0.62
25:AY:153:MET:HA	25:AY:157:LEU:HD21	1.81	0.62
26:B0:40:GLN:NE2	26:B0:43:THR:HA	2.15	0.62
36:BA:406:G:O2'	36:BA:407:G:H8	1.82	0.62
36:BA:2008:C:H2'	36:BA:2009:G:H8	1.64	0.62
36:DA:2441:C:O2'	36:DA:2442:C:H5'	2.00	0.62
34:B8:61:LEU:C	34:B8:63:PRO:HD2	2.20	0.62
54:DW:29:LEU:HD11	54:DW:51:LEU:HD11	1.82	0.62
36:DA:144:C:H2'	36:DA:145:G:C8	2.33	0.62
36:DA:902:C:H2'	36:DA:903:C:H6	1.64	0.62
1:CA:708:C:H2'	1:CA:709:G:H8	1.64	0.62
7:AG:79:ARG:O	7:AG:79:ARG:HD2	2.00	0.62
1:CA:986:A:H1'	19:CS:54:GLY:O	1.99	0.62
50:DS:52:SER:CB	50:DS:55:ALA:HB3	2.30	0.62
36:DA:208:C:H2'	36:DA:209:C:C6	2.34	0.62
1:CA:164:U:H2'	1:CA:165:C:H6	1.63	0.62
3:CC:110:ASN:O	3:CC:141:VAL:HG22	1.98	0.62
47:BP:108:LYS:C	47:BP:110:TYR:H	2.03	0.62
1:CA:995:C:O2'	1:CA:996:A:H5'	2.00	0.62
36:DA:2850:A:H5'	36:DA:2868:A:H2	1.64	0.62
46:DO:87:ILE:N	46:DO:87:ILE:HD13	2.14	0.62
36:BA:1217:C:OP2	52:BU:15:LYS:NZ	2.24	0.62
1:AA:415:A:H2'	1:AA:416:G:C8	2.34	0.62
55:BX:44:GLU:HB2	55:BX:49:VAL:O	1.99	0.62
36:BA:610:G:N2	36:BA:619:G:H1'	2.14	0.62
36:DA:2305:A:C2	36:DA:2306:C:H1'	2.34	0.62
52:BU:88:ILE:HG13	52:BU:88:ILE:O	1.98	0.62
36:DA:336:C:H4'	56:DY:7:VAL:CG2	2.29	0.62
56:BY:74:PRO:O	56:BY:80:GLY:HA2	1.99	0.62
25:AY:633:GLY:HA3	25:AY:644:ARG:NH1	2.13	0.62
26:B0:16:SER:OG	36:BA:2261:C:H3'	1.99	0.62
25:CY:519:ARG:HD3	25:CY:676:TYR:O	1.99	0.62
47:BP:106:LEU:HD11	47:BP:112:LEU:HD23	1.80	0.62
51:BT:27:THR:OG1	51:BT:28:VAL:N	2.29	0.62
1:AA:1003:G:H1'	1:AA:1039:C:O2	1.99	0.62
1:AA:1004:A:C5'	1:AA:1025:U:H3	2.09	0.62
39:BD:243:GLY:O	39:BD:244:ARG:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2476:A:C2'	36:BA:2477:C:H5''	2.28	0.62
45:BN:133:GLN:O	45:BN:134:ARG:HB3	1.99	0.62
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.20	0.62
47:BP:23:PRO:HD2	47:BP:33:ARG:HH21	1.64	0.62
31:D5:36:CYS:SG	31:D5:49:CYS:HB3	2.39	0.62
14:AN:12:ARG:NH1	14:AN:12:ARG:HB2	2.14	0.62
36:DA:139:G:C6	36:DA:140:G:H2'	2.34	0.62
36:BA:2713:A:H3'	36:BA:2714:G:C5'	2.29	0.62
1:CA:1147:C:O2	9:CI:16:ARG:NH1	2.32	0.62
36:BA:1236:G:O2'	36:BA:1237:A:H8	1.75	0.62
42:BG:76:SER:CB	42:BG:83:ARG:HB3	2.29	0.62
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.63	0.62
37:DB:80:U:H2'	37:DB:81:G:H21	1.65	0.62
1:AA:1226:C:H5'	13:AM:96:LEU:CD1	2.30	0.62
36:BA:2195:C:O2'	36:BA:2196:C:H5'	2.00	0.62
36:BA:545:C:H3'	36:BA:547:A:H5''	1.82	0.62
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.33	0.62
12:CL:28:LYS:O	12:CL:29:GLY:C	2.38	0.62
34:D8:6:THR:CG2	34:D8:63:PRO:HD3	2.29	0.62
39:BD:158:ALA:HB3	39:BD:161:THR:CG2	2.30	0.62
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.65	0.62
38:DC:4:HIS:ND1	38:DC:8:TYR:CE2	2.68	0.62
43:DH:18:GLU:HB2	43:DH:25:LYS:HB2	1.81	0.62
50:BS:56:LEU:O	50:BS:56:LEU:HD23	2.00	0.62
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.39	0.62
36:BA:654(S):G:H3'	36:BA:654(T):C:H5''	1.80	0.62
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.81	0.62
36:DA:1059:G:H2'	36:DA:1060:U:C5	2.34	0.62
2:CB:60:ASP:HB3	2:CB:64:ARG:NH2	2.14	0.62
23:AW:11:A:H2'	23:AW:12:G:H8	1.64	0.62
43:BH:130:ARG:NH1	43:BH:130:ARG:HB3	2.14	0.62
2:AB:67:THR:HG22	2:AB:90:MET:SD	2.38	0.62
37:BB:60:C:H2'	37:BB:61:G:H8	1.65	0.62
25:CY:688:ILE:O	25:CY:688:ILE:HG22	1.99	0.62
46:BO:1:MET:HG3	46:BO:67:LYS:HG2	1.81	0.62
25:AY:102:ASP:O	25:AY:130:VAL:HG22	2.00	0.62
55:DX:12:VAL:HB	55:DX:17:ALA:CB	2.15	0.62
50:BS:99:LYS:O	50:BS:101:LEU:N	2.33	0.62
36:BA:1301:A:H4'	36:BA:1302:A:OP1	1.99	0.62
32:D6:19:ARG:O	32:D6:20:ASN:O	2.18	0.62
51:BT:23:ARG:HA	51:BT:52:ILE:CD1	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1431:C:H2'	1:CA:1432:G:H5'	1.82	0.62
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.45	0.62
57:DZ:166:SER:HB2	57:DZ:167:PRO:CA	2.29	0.62
47:BP:27:HIS:CD2	47:BP:28:GLY:N	2.67	0.62
39:BD:145:VAL:HG12	39:BD:146:GLU:N	2.15	0.62
23:CW:49:G:C2'	23:CW:50:U:H5''	2.28	0.62
51:BT:118:ARG:HA	51:BT:121:ILE:HB	1.80	0.62
23:CW:22:G:H2'	23:CW:23:C:C5'	2.29	0.62
1:CA:201:C:C2'	1:CA:202:U:H5''	2.30	0.62
36:DA:2184:G:H2'	36:DA:2185:C:C6	2.34	0.62
31:B5:45:VAL:HG22	31:B5:51:TYR:CE2	2.35	0.62
50:DS:49:VAL:HG21	50:DS:77:ALA:HB2	1.82	0.62
40:DE:24:THR:CG2	40:DE:184:VAL:HG23	2.29	0.62
45:BN:65:LYS:HB3	45:BN:65:LYS:NZ	2.14	0.62
57:DZ:24:LEU:HD21	57:DZ:86:VAL:HG23	1.80	0.62
36:DA:528:A:H2	36:DA:2043:C:H4'	1.64	0.62
22:CV:61:C:O2'	22:CV:62:C:H5'	2.00	0.62
17:AQ:9:VAL:HG12	17:AQ:56:VAL:HG22	1.80	0.62
36:BA:556:G:H2'	36:BA:557:U:C6	2.34	0.62
1:CA:528:C:H41	12:CL:49:ASN:HD21	1.45	0.62
40:DE:103:ASP:OD2	40:DE:201:THR:HA	1.99	0.62
36:BA:2121:G:O2'	38:BC:168:LYS:HG2	2.00	0.62
33:D7:46:VAL:HG12	33:D7:47:ARG:N	2.14	0.62
38:BC:190:ILE:O	38:BC:194:ILE:HG12	2.00	0.62
25:CY:580:MET:CE	36:DA:1913:A:N6	2.62	0.62
36:BA:1378:A:H4'	36:BA:1379:A:OP1	1.98	0.62
42:DG:109:VAL:C	42:DG:112:PRO:HD2	2.20	0.62
42:DG:34:LEU:N	42:DG:34:LEU:HD12	2.15	0.62
53:BV:19:LYS:HE2	53:BV:19:LYS:HA	1.80	0.62
57:BZ:28:MET:HB3	57:BZ:88:PHE:HB2	1.82	0.62
32:D6:51:GLU:O	32:D6:52:VAL:HB	1.99	0.62
32:D6:47:THR:HG23	32:D6:48:VAL:H	1.65	0.62
36:DA:363(B):G:H2'	36:DA:363(C):G:C8	2.34	0.62
45:DN:21:LYS:HB3	45:DN:26:LEU:HD23	1.82	0.62
47:DP:85:LEU:HD23	47:DP:85:LEU:N	2.12	0.62
41:DF:28:ILE:CD1	41:DF:28:ILE:H	2.10	0.62
41:BF:28:ILE:H	41:BF:28:ILE:CD1	2.10	0.62
25:CY:530:VAL:HG12	25:CY:533:VAL:CG2	2.30	0.62
47:BP:24:GLY:CA	47:BP:33:ARG:NH1	2.62	0.62
42:BG:138:GLN:OE1	42:BG:153:ARG:HG2	2.00	0.62
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1820:U:OP1	36:DA:1820:U:H6	1.83	0.62
38:BC:184:GLU:HB2	38:BC:185:LYS:HZ1	1.63	0.62
36:BA:958:U:H6	36:BA:958:U:H3'	1.65	0.62
1:AA:708:C:H2'	1:AA:709:G:H8	1.65	0.62
36:BA:990:A:H61	53:BV:76:LYS:HZ1	1.46	0.62
36:BA:1389:G:H2'	36:BA:1390:U:C6	2.35	0.62
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE1	2.16	0.62
15:CO:5:LYS:O	15:CO:9:GLN:HG2	1.98	0.62
3:CC:99:VAL:O	3:CC:99:VAL:HG23	2.00	0.62
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.35	0.62
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.47	0.62
37:BB:114:C:H2'	37:BB:115:G:C8	2.35	0.62
3:AC:41:GLY:O	3:AC:45:LYS:HG3	1.99	0.62
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.00	0.62
36:DA:2299:G:O2'	36:DA:2300:G:H5'	1.99	0.62
24:CX:18:C:H5'	24:CX:19:A:OP1	1.98	0.62
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.30	0.62
25:CY:183:MET:O	25:CY:201:ILE:HD11	2.00	0.62
55:DX:27:THR:HB	55:DX:80:ILE:HG22	1.80	0.62
43:BH:98:LEU:HD12	43:BH:102:ALA:O	1.98	0.62
25:AY:486:THR:HG23	25:AY:600:VAL:CG1	2.29	0.62
27:D1:44:PRO:O	27:D1:46:LEU:HD22	2.00	0.62
25:AY:406:GLU:HB3	25:AY:407:PRO:CD	2.29	0.62
27:B1:80:LEU:CD2	27:B1:81:LYS:H	2.07	0.62
25:AY:530:VAL:HG22	25:AY:531:GLY:N	2.15	0.62
36:BA:2762:G:H5'	36:BA:2762:G:C8	2.34	0.62
45:DN:133:GLN:O	45:DN:134:ARG:HB3	1.99	0.62
26:D0:25:ARG:HD2	26:D0:29:GLN:HE22	1.65	0.62
34:D8:13:ARG:HD3	47:DP:61:ARG:O	1.98	0.62
46:DO:111:PHE:CB	46:DO:114:ILE:HD13	2.29	0.62
47:DP:16:ARG:HB2	47:DP:16:ARG:NH1	2.14	0.62
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	1.81	0.62
36:BA:1536:C:H2'	36:BA:1537:G:H4'	1.80	0.62
1:AA:1199:U:H4'	10:AJ:54:PHE:CE1	2.35	0.62
28:D2:37:PHE:CE1	55:DX:11:PRO:HB3	2.31	0.62
36:DA:545:C:H3'	36:DA:547:A:H5''	1.82	0.62
41:DF:154:VAL:HG11	41:DF:193:VAL:HG23	1.81	0.62
36:DA:1435:G:H5'	36:DA:1436:G:OP2	2.00	0.62
57:DZ:48:PHE:CE1	57:DZ:52:SER:HA	2.34	0.62
36:BA:11:G:H2'	36:BA:12:U:H6	1.65	0.62
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1722:A:O2'	36:BA:1739:U:H5''	1.99	0.62
1:CA:490:G:H2'	1:CA:491:G:C8	2.35	0.62
28:B2:21:LEU:O	28:B2:24:LEU:HB3	1.99	0.62
48:BQ:87:LYS:HG2	48:BQ:88:GLY:H	1.64	0.62
48:DQ:43:THR:HB	48:DQ:45:GLN:HE21	1.65	0.62
36:DA:1930:G:O2'	36:DA:1931:U:P	2.57	0.62
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.64	0.62
1:AA:833:U:H2'	1:AA:834:C:C6	2.34	0.62
39:DD:210:GLY:O	39:DD:211:ARG:HB3	2.00	0.62
12:AL:82:VAL:HG12	12:AL:105:TYR:CD2	2.35	0.62
26:D0:23:VAL:HG11	26:D0:69:PHE:HZ	1.64	0.62
40:BE:26:ILE:HG21	40:BE:196:VAL:HG21	1.81	0.62
1:CA:116:A:H2'	1:CA:117:G:O4'	2.00	0.62
25:CY:198:GLU:HG3	25:CY:198:GLU:O	1.99	0.62
41:DF:3:GLU:HA	41:DF:24:LEU:CG	2.14	0.62
25:CY:487:ILE:HD12	25:CY:563:ILE:HG22	1.80	0.62
10:CJ:32:ALA:HB3	10:CJ:76:ASN:O	1.99	0.62
29:B3:9:VAL:HG23	29:B3:10:LYS:H	1.65	0.62
34:D8:30:ARG:NH2	36:DA:2419:U:O4	2.32	0.62
53:DV:39:LEU:CD1	53:DV:51:VAL:HA	2.30	0.62
25:CY:220:ALA:O	25:CY:245:ALA:HB1	2.00	0.62
25:AY:624:LEU:CD2	25:AY:631:ILE:HD11	2.25	0.62
45:DN:21:LYS:HD2	45:DN:26:LEU:HB3	1.82	0.62
47:DP:97:PRO:O	47:DP:98:GLU:CB	2.47	0.62
25:AY:201:ILE:N	25:AY:201:ILE:HD12	2.15	0.62
51:BT:23:ARG:HA	51:BT:52:ILE:HD11	1.82	0.62
57:BZ:8:TYR:HB2	57:BZ:38:TYR:CE1	2.35	0.62
36:BA:796:C:H2'	36:BA:797:C:C6	2.34	0.62
50:BS:24:LEU:HB3	50:BS:85:VAL:CG1	2.29	0.62
51:BT:35:LYS:NZ	51:BT:41:ARG:HH11	1.97	0.62
51:BT:78:LEU:HD22	51:BT:78:LEU:O	2.00	0.62
28:D2:69:ARG:HH22	36:DA:111:A:C4'	2.12	0.62
36:BA:1506:C:O2	36:BA:1506:C:H2'	1.98	0.62
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.28	0.62
47:DP:41:ARG:HB3	47:DP:41:ARG:NH1	2.14	0.62
36:DA:1528(A):A:H62	36:DA:1541:G:N2	1.97	0.62
36:DA:1479:G:H5'	36:DA:1558:A:H2	1.64	0.62
25:CY:74:TRP:NE1	25:CY:273:LEU:HB3	2.15	0.62
43:DH:118:PRO:HG2	43:DH:121:ILE:HD12	1.81	0.62
23:CW:23:C:H2'	23:CW:24:U:H6	1.63	0.62
34:D8:61:LEU:C	34:D8:63:PRO:HD2	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:28:LYS:O	12:AL:29:GLY:C	2.38	0.62
25:AY:580:MET:O	25:AY:583:LYS:HB3	1.99	0.62
4:AD:112:VAL:HG12	4:AD:116:GLN:NE2	2.14	0.62
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.00	0.62
37:BB:91:C:O2'	37:BB:92:C:H5'	2.00	0.62
1:CA:538:G:OP1	12:CL:113:ARG:HD2	1.99	0.62
50:DS:19:LYS:HB3	50:DS:20:ARG:HH22	1.65	0.62
37:BB:106:G:H2'	37:BB:107:G:H8	1.65	0.62
36:BA:528:A:H2	36:BA:2043:C:H5'	1.63	0.62
46:DO:14:THR:HG21	46:DO:86:ILE:HD13	1.82	0.62
3:CC:110:ASN:HD21	3:CC:140:ARG:HB3	1.65	0.62
42:BG:165:THR:OG1	42:BG:168:GLU:HG3	2.00	0.62
22:AV:23:A:H2'	22:AV:24:G:C8	2.34	0.62
1:AA:1459:C:H2'	1:AA:1460:A:C8	2.35	0.62
36:BA:1909:C:O2'	36:BA:1910:G:H5'	1.99	0.62
1:CA:357:G:O2'	1:CA:358:U:H5'	2.00	0.62
1:CA:35:G:H2'	1:CA:36:C:C6	2.35	0.62
36:DA:1909:C:O2'	36:DA:1910:G:H5'	2.00	0.62
45:BN:38:HIS:C	52:BU:67:ALA:HB1	2.20	0.62
41:BF:38:ARG:O	41:BF:42:ALA:HB2	1.99	0.62
36:BA:2439:A:N7	36:BA:2586:C:H4'	2.15	0.61
52:BU:112:ARG:NH1	53:BV:46:VAL:HG21	2.15	0.61
53:BV:39:LEU:HD12	53:BV:50:PRO:O	1.99	0.61
50:DS:89:ARG:HE	50:DS:91:PRO:HG2	1.65	0.61
40:BE:133:LYS:H	40:BE:134:ILE:HD12	1.64	0.61
57:BZ:37:VAL:HG23	57:BZ:38:TYR:N	2.15	0.61
49:BR:45:ARG:CG	49:BR:46:GLY:H	2.09	0.61
47:DP:16:ARG:CZ	47:DP:18:ARG:HG2	2.30	0.61
51:DT:57:PHE:O	51:DT:59:THR:HG23	2.00	0.61
37:DB:40:U:H3'	37:DB:41:U:H5''	1.80	0.61
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.12	0.61
36:DA:1538:G:H2'	36:DA:1539:G:C8	2.34	0.61
36:DA:519:U:H2'	36:DA:520:G:H8	1.65	0.61
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.00	0.61
9:AI:77:ILE:O	9:AI:81:ILE:HG12	2.00	0.61
39:BD:267:SER:O	39:BD:269:PHE:N	2.32	0.61
18:CR:58:LEU:HB3	18:CR:62:GLU:CB	2.30	0.61
37:BB:65:C:H41	37:BB:109:C:H2'	1.64	0.61
39:DD:70:TRP:HZ3	39:DD:146:GLU:OE2	1.83	0.61
1:CA:191:G:H1'	20:CT:105:SER:HA	1.80	0.61
23:CW:23:C:H5'	23:CW:23:C:H6	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:27:LEU:O	12:CL:29:GLY:N	2.32	0.61
25:CY:9:LEU:CD2	25:CY:284:LEU:HB2	2.30	0.61
36:DA:688:U:H4'	36:DA:1780:A:C2	2.35	0.61
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.15	0.61
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.82	0.61
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.34	0.61
1:AA:538:G:OP1	12:AL:113:ARG:HD2	1.99	0.61
50:BS:19:LYS:HB3	50:BS:20:ARG:HH22	1.65	0.61
1:CA:741:G:O2'	1:CA:742:G:H5'	2.00	0.61
49:DR:11:ASN:O	49:DR:12:ARG:HB2	2.00	0.61
36:BA:528:A:H2	36:BA:2043:C:H4'	1.65	0.61
36:DA:2457:U:O2'	36:DA:2458:G:H5'	2.00	0.61
13:AM:124:PRO:HG2	25:AY:574:GLU:HB2	1.82	0.61
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.14	0.61
30:B4:2:LYS:HB2	37:BB:40:U:O4	1.99	0.61
37:BB:40:U:H2'	37:BB:43:C:OP2	2.00	0.61
56:BY:81:LYS:HD3	56:BY:97:ARG:O	2.00	0.61
43:BH:70:THR:HG22	43:BH:74:ASN:ND2	2.14	0.61
45:DN:91:LEU:HD23	45:DN:98:VAL:HG21	1.82	0.61
33:D7:41:ARG:HH22	36:DA:460:A:P	2.23	0.61
1:CA:943:U:H2'	1:CA:944:G:H5'	1.82	0.61
1:CA:598:U:H2'	1:CA:599:C:C6	2.35	0.61
48:DQ:136:ALA:C	48:DQ:138:ASP:H	2.01	0.61
10:AJ:12:ASP:OD2	10:AJ:15:THR:HG23	2.00	0.61
53:DV:32:THR:HG23	53:DV:59:ALA:O	2.00	0.61
1:AA:66:G:H4'	1:AA:173:U:C5	2.35	0.61
38:DC:132:LEU:HD22	38:DC:137:LEU:HB2	1.82	0.61
25:CY:170:ARG:HD2	25:CY:170:ARG:N	2.15	0.61
41:DF:2:LYS:HD3	41:DF:119:ARG:HG3	1.80	0.61
36:DA:2439:A:N7	36:DA:2586:C:H4'	2.15	0.61
55:BX:8:ILE:H	55:BX:8:ILE:HD12	1.65	0.61
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	1.99	0.61
34:B8:33:ASN:H	34:B8:33:ASN:HD22	0.72	0.61
36:BA:336:C:H4'	56:BY:7:VAL:CG2	2.30	0.61
49:DR:113:LEU:HD12	49:DR:114:VAL:N	2.14	0.61
36:DA:1141:U:H6	45:DN:63:THR:HG21	1.65	0.61
7:CG:27:ILE:CD1	7:CG:40:ALA:HA	2.28	0.61
25:AY:453:GLY:HA3	25:AY:459:LEU:CD1	2.31	0.61
39:DD:26:LYS:H	39:DD:26:LYS:HE2	1.65	0.61
39:DD:26:LYS:O	39:DD:27:THR:HG22	1.99	0.61
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:174:VAL:HG21	41:DF:189:THR:CG2	2.30	0.61
36:BA:2631:G:N2	40:BE:61:ARG:NH1	2.47	0.61
37:DB:40:U:H2'	37:DB:43:C:OP2	2.00	0.61
4:AD:188:LEU:HD12	4:AD:189:PRO:HD2	1.81	0.61
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.65	0.61
51:DT:132:LYS:HG2	51:DT:133:GLU:N	2.15	0.61
42:BG:112:PRO:O	42:BG:113:ARG:CA	2.48	0.61
40:DE:36:ARG:HG2	40:DE:36:ARG:NH1	2.15	0.61
36:BA:992:C:H2'	36:BA:993:G:H8	1.65	0.61
22:CV:3:C:O2'	22:CV:4:C:H5'	2.00	0.61
40:BE:57:LYS:HZ3	40:BE:63:LEU:HG	1.65	0.61
40:BE:64:LYS:C	40:BE:66:HIS:H	2.01	0.61
36:BA:2184:G:H2'	36:BA:2185:C:C6	2.34	0.61
48:DQ:60:ARG:HB2	48:DQ:60:ARG:NH1	2.15	0.61
36:DA:654(S):G:H3'	36:DA:654(T):C:H5''	1.81	0.61
1:AA:490:G:H2'	1:AA:491:G:C8	2.35	0.61
49:DR:94:TYR:CD1	49:DR:94:TYR:N	2.68	0.61
2:AB:60:ASP:HB3	2:AB:64:ARG:NH2	2.15	0.61
57:BZ:108:PRO:HG2	57:BZ:111:VAL:HG23	1.83	0.61
23:CW:28:C:H2'	23:CW:29:G:H8	1.65	0.61
28:B2:55:ARG:O	28:B2:58:ALA:HB3	1.99	0.61
13:CM:80:ARG:O	13:CM:83:ASP:HB3	2.00	0.61
42:DG:107:LEU:HD21	42:DG:178:PHE:CE1	2.34	0.61
4:AD:43:HIS:O	4:AD:45:GLN:N	2.33	0.61
36:DA:1120:G:H2'	36:DA:1121:C:C6	2.35	0.61
29:B3:31:LEU:HD12	36:BA:1157:G:O2'	2.00	0.61
25:AY:546:ILE:HG12	25:AY:590:ILE:HG12	1.82	0.61
32:B6:51:GLU:O	32:B6:52:VAL:HB	1.99	0.61
28:D2:4:SER:CA	28:D2:7:ARG:HH12	2.06	0.61
36:BA:272(I):U:O2	36:BA:272(I):U:H5'	2.00	0.61
32:D6:15:GLU:CG	32:D6:47:THR:HG21	2.29	0.61
25:CY:439:ARG:N	25:CY:452:SER:HB3	2.07	0.61
36:DA:272(J):C:H42	36:DA:363:G:N2	1.97	0.61
32:B6:15:GLU:CD	32:B6:44:ARG:NH1	2.54	0.61
32:B6:15:GLU:CG	32:B6:47:THR:HG21	2.31	0.61
47:BP:97:PRO:O	47:BP:98:GLU:CB	2.49	0.61
51:DT:27:THR:OG1	51:DT:28:VAL:N	2.30	0.61
25:CY:548:GLU:HA	25:CY:551:GLN:NE2	2.10	0.61
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.83	0.61
5:AE:101:ILE:O	5:AE:101:ILE:HG12	2.00	0.61
36:DA:1213:A:N3	36:DA:1238:G:H1'	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:54:PHE:CG	10:AJ:55:LYS:HE3	2.35	0.61
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.00	0.61
3:AC:6:HIS:CD2	3:AC:7:PRO:HD2	2.35	0.61
26:B0:42:GLY:HA3	36:BA:2331:G:O4'	2.00	0.61
27:D1:23:LYS:CE	27:D1:28:GLY:HA3	2.29	0.61
30:D4:19:GLY:O	30:D4:21:VAL:HG23	2.00	0.61
25:CY:493:VAL:HB	25:CY:592:GLU:OE2	1.99	0.61
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.35	0.61
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.35	0.61
36:BA:271(E):U:H2'	36:BA:271(F):C:C6	2.35	0.61
48:DQ:45:GLN:NE2	48:DQ:45:GLN:H	1.98	0.61
36:BA:1971:A:C4	39:BD:241:PRO:HD3	2.35	0.61
36:BA:2850:A:H5'	36:BA:2868:A:H2	1.64	0.61
43:DH:66:GLY:HA2	43:DH:69:ARG:HB3	1.83	0.61
37:DB:35:U:O2	37:DB:35:U:H2'	1.98	0.61
55:DX:70:LEU:HD23	55:DX:71:GLY:N	2.16	0.61
39:BD:209:ALA:O	39:BD:212:SER:HB2	2.01	0.61
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.83	0.61
10:CJ:48:THR:HG23	10:CJ:62:HIS:ND1	2.15	0.61
25:CY:509:HIS:CE1	25:CY:511:LYS:HE3	2.35	0.61
1:CA:793:U:H3'	1:CA:794:A:C5'	2.19	0.61
52:DU:88:ILE:O	52:DU:88:ILE:HG13	2.00	0.61
47:BP:95:VAL:HG23	47:BP:125:VAL:HG23	1.80	0.61
25:AY:457:LEU:O	25:AY:461:ILE:HG13	2.00	0.61
25:AY:568:TYR:CE2	25:AY:569:ASP:HB2	2.34	0.61
36:BA:2632:A:N3	40:BE:61:ARG:NH1	2.48	0.61
46:DO:114:ILE:H	46:DO:114:ILE:CD1	2.11	0.61
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.82	0.61
36:DA:1536:C:H2'	36:DA:1537:G:H4'	1.81	0.61
36:DA:1541:G:H1'	36:DA:1542:A:C4	2.36	0.61
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.83	0.61
43:BH:85:LYS:HZ3	43:BH:87:LEU:HG	1.64	0.61
1:CA:737:A:H2'	1:CA:738:C:C6	2.35	0.61
1:AA:579:G:C5'	1:AA:728:A:H1'	2.31	0.61
50:DS:56:LEU:O	50:DS:56:LEU:HD23	2.01	0.61
1:AA:277:C:O2'	1:AA:278:G:H5'	2.00	0.61
40:DE:46:ALA:HA	40:DE:82:ARG:O	2.00	0.61
36:BA:2457:U:O2'	36:BA:2458:G:H5'	2.00	0.61
36:DA:1030:G:OP2	48:DQ:128:LYS:HE2	1.99	0.61
13:AM:40:ASN:HD21	13:AM:42:ALA:HB3	1.65	0.61
36:DA:2348:U:C2'	36:DA:2349:G:H5''	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1057:A:H61	36:BA:1081:U:H3	1.48	0.61
27:B1:45:ASN:HB2	36:BA:2230:G:H1'	1.81	0.61
27:B1:45:ASN:HD21	27:B1:47:GLN:HE21	1.48	0.61
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.81	0.61
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.14	0.61
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.64	0.61
43:BH:105:LEU:CD2	43:BH:113:VAL:HB	2.30	0.61
49:BR:65:LEU:O	49:BR:65:LEU:HD12	2.01	0.61
5:AE:9:LYS:HB3	5:AE:112:LEU:HD11	1.82	0.61
2:CB:101:MET:O	2:CB:102:LEU:HD12	2.01	0.61
28:B2:57:ILE:O	28:B2:61:LEU:HG	2.00	0.61
36:BA:1059:G:H2'	36:BA:1060:U:C5	2.35	0.61
38:BC:79:ALA:HB1	38:BC:83:LYS:HB2	1.82	0.61
16:AP:1:MET:SD	16:AP:3:LYS:HE3	2.40	0.61
10:AJ:32:ALA:HB3	10:AJ:76:ASN:O	2.01	0.61
42:DG:110:ALA:CB	42:DG:140:ILE:HD13	2.31	0.61
25:CY:15:ILE:HD12	25:CY:81:ILE:HG23	1.81	0.61
25:CY:100:VAL:HG21	25:CY:314:PHE:HD2	1.65	0.61
59:AY:701:FUA:H211	59:AY:701:FUA:O2	2.00	0.61
25:CY:512:ILE:N	25:CY:512:ILE:HD13	2.15	0.61
36:DA:2732:G:H3'	36:DA:2733:A:H5'	1.82	0.61
50:BS:89:ARG:HE	50:BS:91:PRO:HG2	1.65	0.61
25:CY:247:ARG:HD2	25:CY:278:ASP:O	2.01	0.61
56:BY:44:ILE:CG2	56:BY:45:VAL:H	2.13	0.61
25:AY:529:ILE:HD11	25:AY:567:LEU:CD1	2.31	0.61
26:D0:26:TYR:O	26:D0:67:VAL:HB	2.01	0.61
36:BA:2789:C:H1'	36:BA:2892:A:C2	2.36	0.61
5:AE:76:ILE:HG22	5:AE:118:ILE:HD13	1.82	0.61
4:CD:36:ARG:HB3	4:CD:36:ARG:NH1	2.13	0.61
36:BA:520:G:H2'	36:BA:521:G:C8	2.35	0.61
39:DD:183:ARG:HD2	39:DD:270:ILE:HG23	1.80	0.61
26:D0:42:GLY:HA3	36:DA:2331:G:C4'	2.31	0.61
36:BA:1799:G:H5'	36:BA:1819:A:N6	2.16	0.61
34:D8:62:LEU:CD1	36:DA:242:G:H5''	2.30	0.61
36:BA:2105:C:H2'	36:BA:2106:G:H5'	1.82	0.61
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.35	0.61
36:BA:784:A:H5''	39:BD:227:ASN:ND2	2.15	0.61
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.15	0.61
41:DF:43:LYS:HA	41:DF:98:SER:HB3	1.81	0.61
36:BA:2219:G:O2'	36:BA:2220:G:H5'	2.00	0.61
36:DA:1810:A:H2'	36:DA:1811:G:O4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:484:C:H2'	36:DA:485:C:C6	2.35	0.61
23:AW:76:A:N6	36:BA:2422:A:O4'	2.33	0.61
1:CA:66:G:H4'	1:CA:173:U:C5	2.35	0.61
36:BA:1287:A:H2'	36:BA:1287:A:N3	2.16	0.61
57:DZ:127:LYS:HB3	57:DZ:127:LYS:NZ	2.14	0.61
1:AA:718:G:C8	11:AK:116:HIS:HB3	2.34	0.61
36:BA:2192:G:H2'	36:BA:2193:G:H5''	1.81	0.61
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.18	0.61
43:BH:12:PRO:O	43:BH:15:VAL:HG22	2.00	0.61
29:D3:31:LEU:HD12	36:DA:1157:G:O2'	2.00	0.61
29:D3:31:LEU:CD1	29:D3:32:GLN:HG2	2.22	0.61
34:B8:30:ARG:O	34:B8:31:HIS:HB3	1.98	0.61
36:DA:2056:G:H2'	36:DA:2056:G:N3	2.15	0.61
47:DP:114:ILE:HD12	47:DP:115:LEU:N	2.14	0.61
47:BP:91:PHE:N	47:BP:91:PHE:CD1	2.68	0.61
46:DO:69:ILE:N	46:DO:69:ILE:HD12	2.15	0.61
10:AJ:71:LEU:HD12	10:AJ:72:VAL:H	1.65	0.61
20:AT:47:GLY:O	20:AT:49:ALA:N	2.28	0.61
25:AY:510:VAL:HG12	25:AY:511:LYS:N	2.16	0.61
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.82	0.61
36:DA:2807:G:C3'	36:DA:2808:U:H5''	2.29	0.61
41:BF:84:VAL:O	41:BF:86:GLY:N	2.34	0.61
31:B5:33:CYS:HG	31:B5:49:CYS:HG	1.47	0.61
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.10	0.61
36:BA:1213:A:N3	36:BA:1238:G:H1'	2.16	0.61
36:DA:260:G:H1'	36:DA:621:A:H1'	1.83	0.61
38:DC:182:PRO:HD2	38:DC:185:LYS:HG2	1.82	0.61
38:DC:73:VAL:CG1	38:DC:158:LYS:HA	2.31	0.61
30:B4:19:GLY:O	30:B4:21:VAL:HG23	2.01	0.61
36:BA:1332:G:N2	36:BA:1609:A:H3'	2.15	0.61
1:AA:275:G:H5''	17:AQ:14:LYS:CB	2.29	0.61
50:DS:51:ALA:CB	50:DS:73:LEU:HB2	2.30	0.61
36:BA:208:C:H2'	36:BA:209:C:C6	2.34	0.61
36:DA:2241:A:H2'	36:DA:2242:G:H8	1.66	0.61
1:AA:460:G:H5'	1:AA:461:A:OP2	2.01	0.61
25:CY:400:GLU:HG2	25:CY:401:SER:N	2.15	0.61
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.00	0.61
36:DA:271(E):U:H2'	36:DA:271(F):C:C6	2.36	0.61
36:DA:803:U:O2'	36:DA:804:A:H5'	2.00	0.61
2:CB:193:ASP:OD1	2:CB:193:ASP:O	2.17	0.61
1:AA:995:C:O2'	1:AA:996:A:H5'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1151:G:H5''	52:BU:81:HIS:CE1	2.35	0.61
24:CX:14:U:H5'	24:CX:15:G:OP2	2.00	0.61
42:DG:131:TYR:HE2	42:DG:133:LEU:HD23	1.65	0.61
42:DG:139:LEU:HA	42:DG:144:ILE:HG21	1.83	0.61
42:DG:55:LYS:HD3	42:DG:55:LYS:C	2.21	0.61
10:AJ:48:THR:HG23	10:AJ:62:HIS:ND1	2.15	0.61
43:DH:12:PRO:O	43:DH:15:VAL:HG22	2.01	0.61
3:CC:47:LEU:HD11	3:CC:76:VAL:HG12	1.82	0.61
49:DR:75:LEU:HD13	49:DR:75:LEU:O	2.00	0.61
47:BP:84:ASN:C	47:BP:86:LYS:N	2.53	0.61
41:BF:63:LYS:CE	41:BF:67:GLN:HB2	2.31	0.61
34:D8:13:ARG:HB3	47:DP:63:PRO:HB3	1.83	0.61
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.35	0.61
39:DD:48:ARG:NH1	39:DD:48:ARG:HG3	2.15	0.61
40:BE:25:VAL:HG22	40:BE:183:LEU:HG	1.82	0.61
36:DA:2853:C:H2'	36:DA:2854:G:C8	2.36	0.61
52:BU:54:LYS:O	52:BU:58:ARG:HG3	2.01	0.61
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.82	0.61
2:AB:83:MET:CG	2:AB:234:PRO:HG3	2.30	0.61
1:CA:714:G:H2'	1:CA:715:A:C8	2.35	0.61
36:DA:295:G:H2'	36:DA:296:C:H6	1.65	0.61
1:CA:179:A:H2'	1:CA:180:U:C6	2.36	0.61
48:DQ:87:LYS:HG2	48:DQ:88:GLY:H	1.66	0.61
1:AA:1492:A:N3	24:AX:20:A:O2'	2.33	0.61
36:BA:64:A:C4	55:BX:66:LEU:HD13	2.35	0.61
23:CW:58:A:H4'	23:CW:59:A:OP1	2.00	0.61
33:D7:10:ARG:HH12	33:D7:14:LYS:HE3	1.66	0.61
36:BA:1556:C:H2'	36:BA:1557:C:C6	2.35	0.61
34:D8:14:VAL:HG21	34:D8:22:VAL:HG13	1.82	0.61
46:DO:1:MET:HG3	46:DO:67:LYS:HG2	1.82	0.61
1:CA:559:A:H4'	1:CA:560:U:H5'	1.83	0.61
1:CA:836:G:C6	1:CA:851:G:C6	2.89	0.61
36:BA:2514:U:H2'	36:BA:2515:C:H6	1.64	0.61
48:BQ:12:GLN:HE21	48:BQ:73:PRO:HD2	1.64	0.61
39:DD:31:LYS:NZ	39:DD:33:LEU:HB2	2.15	0.61
42:DG:55:LYS:HD3	42:DG:56:ALA:N	2.16	0.61
25:CY:330:VAL:CG1	25:CY:371:ALA:HA	2.31	0.61
25:CY:84:THR:N	25:CY:85:PRO:HD3	2.13	0.61
25:AY:88:VAL:O	25:AY:90:PHE:N	2.33	0.61
22:CV:56:C:O2	42:DG:78:SER:HB3	2.01	0.61
45:DN:43:THR:HG22	45:DN:45:ASN:ND2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:39:VAL:HG12	56:BY:40:GLU:N	2.16	0.61
45:BN:26:LEU:HD12	45:BN:27:ALA:N	2.16	0.61
31:D5:3:LYS:HG2	36:DA:747:U:C4	2.36	0.61
27:B1:57:GLU:HG2	27:B1:58:ILE:N	2.16	0.61
41:DF:187:VAL:HG12	47:DP:7:ARG:NH2	2.16	0.61
41:BF:187:VAL:CG1	47:BP:7:ARG:HH22	2.14	0.61
34:B8:54:GLU:O	34:B8:58:ILE:HG12	2.00	0.61
34:B8:56:GLU:HA	34:B8:59:LYS:NZ	2.16	0.61
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.82	0.61
36:DA:662:G:P	47:DP:18:ARG:HD2	2.41	0.61
36:DA:2832:U:H1'	36:DA:2834:G:C2	2.35	0.61
30:D4:2:LYS:O	30:D4:3:GLU:HB2	2.01	0.61
38:BC:71:LYS:HG2	38:BC:72:GLN:N	2.14	0.61
41:DF:84:VAL:O	41:DF:86:GLY:N	2.33	0.61
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.66	0.61
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.30	0.61
57:DZ:65:GLN:HB3	57:DZ:67:LEU:HD11	1.83	0.61
39:DD:145:VAL:HG12	39:DD:146:GLU:N	2.16	0.61
12:CL:47:LYS:HD2	12:CL:48:PRO:HD3	1.82	0.61
3:CC:175:LEU:HD21	3:CC:201:TYR:HE2	1.65	0.61
34:B8:62:LEU:CD1	36:BA:242:G:H5"	2.29	0.61
38:BC:132:LEU:HD22	38:BC:137:LEU:HB2	1.83	0.61
1:AA:539:A:H2'	1:AA:540:G:C8	2.35	0.61
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.15	0.61
13:AM:106:ASN:O	13:AM:107:ALA:HB3	1.99	0.61
39:DD:76:PRO:HG2	39:DD:98:VAL:CG2	2.30	0.61
39:BD:210:GLY:C	39:BD:212:SER:H	2.03	0.61
36:BA:803:U:O2'	36:BA:804:A:H5'	2.01	0.61
1:AA:824:C:H2'	1:AA:825:G:H8	1.66	0.61
41:DF:38:ARG:O	41:DF:42:ALA:HB2	2.01	0.61
10:CJ:12:ASP:OD2	10:CJ:15:THR:HG23	2.00	0.61
52:DU:84:LYS:C	52:DU:86:ALA:H	2.03	0.61
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.01	0.61
20:CT:12:ALA:O	20:CT:15:ARG:HB2	1.99	0.61
25:AY:99:ARG:NH2	25:AY:128:TYR:HB2	2.15	0.61
36:BA:751:A:H5'	54:BW:90:ARG:HA	1.83	0.61
36:BA:78:A:O2'	36:BA:79:G:H5'	2.01	0.61
25:AY:548:GLU:O	25:AY:551:GLN:HG2	2.00	0.61
15:AO:5:LYS:O	15:AO:9:GLN:HG2	2.01	0.61
1:CA:219:C:H2'	1:CA:220:G:O4'	2.01	0.61
1:AA:20:U:H2'	1:AA:21:G:O4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:53:LEU:HB3	42:DG:56:ALA:HB3	1.83	0.61
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.01	0.61
25:CY:264:LEU:HD22	25:CY:265:LYS:NZ	2.15	0.61
29:D3:9:VAL:HG23	29:D3:10:LYS:H	1.64	0.61
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.81	0.61
47:DP:24:GLY:CA	47:DP:33:ARG:NH1	2.64	0.61
36:BA:2723:C:H5''	49:BR:2:ARG:NH1	2.05	0.61
25:AY:487:ILE:CG2	25:AY:594:VAL:HG13	2.26	0.61
31:D5:40:LYS:HZ3	31:D5:46:CYS:H	1.49	0.61
32:B6:15:GLU:OE2	32:B6:44:ARG:NH1	2.32	0.61
32:B6:47:THR:HG23	32:B6:48:VAL:H	1.65	0.61
47:DP:84:ASN:C	47:DP:86:LYS:N	2.54	0.61
36:BA:2305:A:C2	36:BA:2306:C:H1'	2.35	0.61
47:BP:114:ILE:HD12	47:BP:115:LEU:N	2.16	0.61
27:B1:76:ARG:HH22	27:B1:95:LEU:CB	2.14	0.61
41:DF:28:ILE:O	41:DF:30:PRO:HD3	2.01	0.61
47:DP:9:ASN:H	47:DP:10:PRO:HD2	1.66	0.61
51:DT:109:GLU:HA	51:DT:112:ARG:HB3	1.83	0.61
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.83	0.61
34:B8:13:ARG:HD3	47:BP:61:ARG:O	2.01	0.61
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.83	0.61
27:D1:94:LEU:O	27:D1:96:LYS:N	2.34	0.61
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.00	0.61
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.01	0.61
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.30	0.61
43:DH:44:VAL:C	43:DH:46:GLU:H	2.04	0.61
18:CR:46:GLU:HA	18:CR:46:GLU:OE1	2.01	0.61
25:CY:25:LYS:HE2	25:CY:86:GLY:HA2	1.82	0.61
36:DA:392:C:H5''	36:DA:409:C:H5''	1.81	0.61
36:BA:1820:U:OP1	36:BA:1820:U:H6	1.83	0.61
1:AA:624:C:O2'	1:AA:625:G:H5'	2.01	0.61
35:B9:22:ARG:HB2	35:B9:24:TYR:HE1	1.65	0.61
36:BA:894:C:O2'	36:BA:895:U:H5'	2.01	0.61
36:BA:902:C:H2'	36:BA:903:C:H6	1.66	0.61
36:BA:1114:G:C2'	36:BA:1115:G:H5'	2.30	0.61
27:B1:51:VAL:HG21	27:B1:74:VAL:HG21	1.81	0.61
36:BA:528:A:C2	36:BA:2043:C:H5'	2.36	0.61
36:DA:2593:U:H2'	36:DA:2594:C:H6	1.65	0.61
36:BA:1682:G:H2'	36:BA:1683:C:C6	2.36	0.61
36:BA:754:C:H2'	36:BA:755:C:C6	2.36	0.61
17:AQ:53:LEU:HD23	17:AQ:54:GLY:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:20:ARG:HA	31:D5:23:HIS:ND1	2.16	0.61
5:CE:71:LEU:HD11	5:CE:114:GLY:HA3	1.82	0.61
1:CA:20:U:H2'	1:CA:21:G:O4'	2.00	0.61
31:B5:20:ARG:HA	31:B5:23:HIS:ND1	2.16	0.61
57:DZ:182:LYS:O	57:DZ:183:LEU:HD23	2.00	0.61
1:CA:683:G:H5'	1:CA:684:A:OP2	2.01	0.61
37:DB:60:C:H2'	37:DB:61:G:H8	1.66	0.61
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.99	0.61
25:CY:506:GLN:HE22	36:DA:1913:A:N6	1.98	0.61
38:DC:128:LEU:CD1	38:DC:132:LEU:HG	2.31	0.61
23:AW:34:C:H2'	23:AW:35:A:H5''	1.80	0.61
36:BA:1858:G:H2'	36:BA:1883:G:H22	1.65	0.61
25:CY:84:THR:N	25:CY:85:PRO:CD	2.63	0.61
25:CY:85:PRO:HA	25:CY:94:VAL:HG13	1.83	0.61
36:DA:2008:C:H2'	36:DA:2009:G:H8	1.66	0.61
47:DP:23:PRO:CB	47:DP:33:ARG:HG3	2.31	0.61
50:DS:99:LYS:O	50:DS:101:LEU:N	2.34	0.61
36:DA:272(J):C:H3'	36:DA:274:G:C5'	2.29	0.61
56:DY:44:ILE:CG2	56:DY:45:VAL:H	2.13	0.61
36:BA:2523:G:O2'	36:BA:2524:G:H5''	2.00	0.61
36:BA:1541:G:H1'	36:BA:1542:A:C4	2.36	0.61
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.29	0.61
41:DF:192:LEU:HD23	41:DF:193:VAL:N	2.16	0.61
36:BA:260:G:H1'	36:BA:621:A:H1'	1.83	0.61
9:AI:104:ARG:C	9:AI:105:ASP:N	2.54	0.61
52:BU:59:ARG:HH11	52:BU:59:ARG:HG2	1.66	0.61
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.01	0.61
36:DA:894:C:O2'	36:DA:895:U:H5'	2.00	0.61
36:BA:1163:G:O2'	36:BA:1164:G:H5'	2.01	0.61
25:AY:416:LYS:HD2	25:AY:417:THR:H	1.65	0.61
2:CB:207:ALA:HB3	2:CB:210:SER:CB	2.31	0.61
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.36	0.61
36:DA:2030:A:H4'	36:DA:2031:A:H8	1.66	0.61
49:BR:11:ASN:O	49:BR:12:ARG:HB2	2.00	0.61
36:DA:299:A:H5'	36:DA:300:A:OP2	2.01	0.61
25:CY:688:ILE:N	25:CY:688:ILE:HD12	2.15	0.61
57:DZ:152:ALA:HB3	57:DZ:154:ASP:OD1	2.01	0.61
1:AA:41:G:H2'	1:AA:42:G:H8	1.65	0.61
38:BC:117:THR:HG22	38:BC:147:GLY:O	2.01	0.61
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.00	0.61
25:AY:5:VAL:HG13	25:AY:6:GLU:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:73:ALA:H	42:DG:87:PRO:HG3	1.65	0.60
25:CY:146:LEU:HD12	25:CY:167:PRO:CD	2.20	0.60
25:CY:210:ARG:HG2	25:CY:210:ARG:NH1	2.16	0.60
36:DA:1858:G:H2'	36:DA:1883:G:H22	1.66	0.60
36:BA:2438:U:O3'	36:BA:2439:A:H4'	2.01	0.60
53:BV:39:LEU:CD1	53:BV:51:VAL:HA	2.31	0.60
42:BG:60:LEU:O	42:BG:60:LEU:HD13	1.98	0.60
32:D6:28:ARG:O	32:D6:32:ASN:HB2	2.01	0.60
36:BA:2392:A:H2	36:BA:2424:C:H42	1.47	0.60
56:DY:39:VAL:HG12	56:DY:40:GLU:N	2.16	0.60
28:B2:3:LEU:HB2	36:BA:98:G:OP1	2.00	0.60
36:BA:2346:A:H1'	36:BA:2383:G:C8	2.36	0.60
36:DA:1141:U:H5''	45:DN:63:THR:CG2	2.30	0.60
51:BT:115:ARG:CB	51:BT:115:ARG:HH11	2.13	0.60
51:DT:28:VAL:CG2	51:DT:46:GLU:HG3	2.30	0.60
25:AY:539:ILE:CD1	25:AY:567:LEU:HD21	2.31	0.60
45:BN:134:ARG:O	45:BN:136:GLU:N	2.34	0.60
23:AW:14:A:H2'	23:AW:15:G:H5''	1.83	0.60
39:BD:70:TRP:HZ3	39:BD:146:GLU:OE2	1.84	0.60
25:AY:153:MET:O	25:AY:157:LEU:HG	2.01	0.60
36:BA:1819:A:H1'	36:BA:1821:A:C6	2.36	0.60
1:AA:737:A:H2'	1:AA:738:C:C6	2.36	0.60
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.01	0.60
3:CC:11:ARG:HH21	3:CC:180:ALA:HB3	1.66	0.60
39:BD:95:LEU:HD12	39:BD:103:ARG:O	2.01	0.60
19:AS:41:VAL:O	19:AS:41:VAL:HG23	2.01	0.60
46:DO:97:ARG:HG3	46:DO:97:ARG:HH11	1.66	0.60
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.81	0.60
47:BP:66:GLY:O	47:BP:67:MET:HB3	2.01	0.60
47:DP:66:GLY:O	47:DP:67:MET:HB3	1.99	0.60
36:BA:2593:U:H2'	36:BA:2594:C:H6	1.64	0.60
36:DA:2679:A:H4'	40:DE:165:VAL:HG11	1.83	0.60
36:BA:759:G:H2'	36:BA:760:G:H8	1.66	0.60
26:B0:23:VAL:HG11	26:B0:69:PHE:HZ	1.66	0.60
41:BF:43:LYS:HA	41:BF:98:SER:HB3	1.82	0.60
37:DB:106:G:H2'	37:DB:107:G:H8	1.65	0.60
46:DO:10:VAL:HG21	46:DO:16:ALA:O	2.01	0.60
25:CY:92:ILE:HG23	25:CY:93:GLU:N	2.16	0.60
25:AY:96:ARG:O	25:AY:100:VAL:HG12	2.00	0.60
59:AY:701:FUA:O1	59:AY:701:FUA:H12	2.00	0.60
25:CY:546:ILE:CD1	25:CY:565:VAL:HG11	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1370:G:C2	1:AA:1371:G:C8	2.89	0.60
15:AO:26:GLU:HA	15:AO:81:LEU:HD22	1.81	0.60
25:CY:652:MET:HA	25:CY:652:MET:CE	2.31	0.60
25:AY:252:ASP:O	25:AY:254:LYS:HE3	2.01	0.60
46:BO:111:PHE:CB	46:BO:114:ILE:HD13	2.28	0.60
41:DF:63:LYS:CE	41:DF:67:GLN:HB2	2.30	0.60
48:DQ:27:VAL:HG12	48:DQ:28:ALA:N	2.16	0.60
14:AN:12:ARG:NH1	14:AN:14:PRO:HG3	2.14	0.60
23:AW:50:U:H3	23:AW:64:G:N2	1.95	0.60
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.16	0.60
52:BU:56:ASP:O	52:BU:59:ARG:HB2	2.00	0.60
1:CA:579:G:C5'	1:CA:728:A:H1'	2.30	0.60
2:CB:233:SER:CB	2:CB:234:PRO:CD	2.79	0.60
36:BA:2461:C:O2	36:BA:2461:C:H2'	1.99	0.60
43:DH:88:LEU:HD23	43:DH:164:TYR:O	2.01	0.60
25:CY:484:ARG:CD	25:CY:559:PRO:HB2	2.31	0.60
49:BR:4:LEU:C	49:BR:6:SER:H	2.03	0.60
48:DQ:76:LYS:HE2	48:DQ:77:LYS:O	2.01	0.60
39:DD:65:ILE:H	39:DD:65:ILE:HD13	1.65	0.60
1:AA:1305:G:OP1	21:AU:2:GLY:N	2.34	0.60
23:AW:11:A:H2'	23:AW:12:G:C8	2.36	0.60
36:DA:1809:A:H2'	36:DA:1810:A:C8	2.36	0.60
27:D1:69:LYS:HE2	27:D1:72:GLU:OE2	2.00	0.60
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.01	0.60
36:DA:2192:G:H2'	36:DA:2193:G:H5''	1.82	0.60
25:CY:388:THR:HG21	25:CY:399:LEU:HD13	1.83	0.60
26:B0:7:LEU:HD13	48:BQ:85:LYS:HG3	1.83	0.60
40:BE:170:LEU:HD12	40:BE:170:LEU:H	1.66	0.60
57:BZ:146:ILE:HD13	57:BZ:146:ILE:H	1.66	0.60
36:BA:1326:U:O2'	36:BA:1327:C:H5'	2.00	0.60
49:BR:44:LEU:O	49:BR:44:LEU:HD13	2.02	0.60
1:AA:309:G:H1'	1:AA:608:A:C2	2.36	0.60
25:CY:580:MET:HE1	36:DA:1913:A:H61	1.66	0.60
25:CY:188:TYR:CD1	25:CY:196:ILE:HG22	2.37	0.60
41:DF:25:PRO:HG3	41:DF:119:ARG:CB	2.30	0.60
36:DA:1882:C:H2'	36:DA:1883:G:O4'	2.01	0.60
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.15	0.60
32:B6:7:ILE:N	32:B6:7:ILE:HD12	2.15	0.60
25:AY:249:GLY:HA2	25:AY:252:ASP:OD2	2.02	0.60
51:DT:91:ARG:HG2	51:DT:116:ALA:HA	1.83	0.60
36:DA:2789:C:H1'	36:DA:2892:A:C2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:54:GLU:O	34:D8:58:ILE:HG12	2.00	0.60
28:D2:69:ARG:O	28:D2:70:GLN:HB2	2.01	0.60
2:CB:187:LEU:HD12	2:CB:205:ASP:HA	1.82	0.60
42:BG:86:MET:N	42:BG:87:PRO:HD3	2.16	0.60
36:BA:1435:G:H5'	36:BA:1436:G:OP2	2.01	0.60
52:DU:59:ARG:HH11	52:DU:59:ARG:HG2	1.64	0.60
42:BG:77:ILE:HG22	42:BG:80:PHE:O	2.01	0.60
37:DB:3:C:N4	37:DB:118:G:H1	1.98	0.60
48:DQ:59:ARG:HB3	57:DZ:180:VAL:HG21	1.83	0.60
25:CY:66:THR:O	25:CY:358:MET:HE2	2.01	0.60
56:BY:88:LYS:NZ	56:BY:93:GLY:O	2.33	0.60
50:BS:52:SER:CB	50:BS:55:ALA:HB3	2.30	0.60
1:AA:585:G:H4'	12:AL:8:ASN:ND2	2.15	0.60
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.01	0.60
56:DY:88:LYS:HZ3	56:DY:93:GLY:C	2.04	0.60
12:CL:8:ASN:O	12:CL:12:ARG:HG3	2.01	0.60
1:CA:404:U:H2'	1:CA:405:U:H6	1.66	0.60
37:DB:44:G:H1'	37:DB:47:C:N4	2.16	0.60
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.84	0.60
46:BO:87:ILE:HD13	46:BO:87:ILE:N	2.16	0.60
1:AA:116:A:H2'	1:AA:117:G:O4'	2.00	0.60
36:DA:2028:U:H2'	36:DA:2029:G:C8	2.37	0.60
1:CA:1284:C:H3'	1:CA:1285:A:H5''	1.82	0.60
36:BA:2679:A:H4'	40:BE:165:VAL:HG11	1.83	0.60
25:AY:19:ALA:CA	25:AY:121:VAL:HG11	2.29	0.60
25:AY:106:VAL:HG23	25:AY:132:ARG:HG3	1.82	0.60
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.02	0.60
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.84	0.60
32:B6:6:ARG:O	32:B6:7:ILE:HB	2.01	0.60
32:B6:7:ILE:HG22	32:B6:7:ILE:O	2.00	0.60
45:BN:66:LYS:O	45:BN:67:LEU:HD23	2.01	0.60
36:BA:1061:U:H4'	36:BA:1070:A:C1'	2.26	0.60
29:D3:29:ARG:CB	29:D3:29:ARG:HH11	2.07	0.60
36:DA:648:G:H2'	36:DA:649:G:H8	1.65	0.60
47:DP:91:PHE:N	47:DP:91:PHE:CD1	2.70	0.60
41:DF:187:VAL:CG1	47:DP:7:ARG:HH22	2.13	0.60
45:DN:120:LEU:HD11	45:DN:122:VAL:HG23	1.82	0.60
40:DE:77:ILE:HG22	40:DE:78:LEU:CD1	2.31	0.60
36:DA:2386:C:H2'	36:DA:2387:U:C6	2.36	0.60
37:BB:80:U:H2'	37:BB:81:G:H21	1.66	0.60
2:AB:12:GLU:HA	2:AB:16:HIS:CG	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.31	0.60
1:CA:1321:C:H5''	1:CA:1322:C:C5'	2.31	0.60
19:CS:41:VAL:HG23	19:CS:41:VAL:O	2.01	0.60
9:AI:104:ARG:O	9:AI:105:ASP:HB3	2.01	0.60
1:AA:1148:U:O3'	9:AI:14:VAL:HG11	2.01	0.60
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.01	0.60
36:DA:1287:A:N3	36:DA:1287:A:H2'	2.17	0.60
4:AD:30:LYS:C	4:AD:32:ALA:N	2.55	0.60
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.83	0.60
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.01	0.60
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.02	0.60
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.34	0.60
39:BD:91:ARG:NH1	39:BD:91:ARG:HG2	2.15	0.60
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.67	0.60
46:DO:97:ARG:O	46:DO:98:VAL:HG13	2.01	0.60
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.34	0.60
43:BH:30:LYS:CD	43:BH:81:GLU:HG2	2.31	0.60
2:AB:233:SER:CB	2:AB:234:PRO:CD	2.79	0.60
36:DA:933:A:H2'	36:DA:934:G:O4'	2.01	0.60
50:BS:17:ARG:O	50:BS:20:ARG:HG2	2.02	0.60
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.83	0.60
1:AA:1005:A:H5'	1:AA:1006:C:OP2	2.00	0.60
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.66	0.60
49:BR:94:TYR:CD1	49:BR:94:TYR:N	2.68	0.60
19:AS:53:ASN:O	19:AS:55:LYS:N	2.32	0.60
25:AY:229:LEU:O	25:AY:233:GLU:HG3	2.01	0.60
1:CA:1305:G:OP1	21:CU:2:GLY:N	2.34	0.60
39:DD:210:GLY:C	39:DD:212:SER:H	2.05	0.60
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.82	0.60
40:BE:170:LEU:N	40:BE:170:LEU:HD12	2.16	0.60
1:CA:22:G:H4'	1:CA:885:G:C8	2.37	0.60
57:BZ:127:LYS:O	57:BZ:128:VAL:HB	2.02	0.60
40:DE:170:LEU:HD12	40:DE:170:LEU:N	2.16	0.60
39:BD:23:GLU:HA	39:BD:23:GLU:OE1	2.01	0.60
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.01	0.60
28:D2:43:GLN:O	28:D2:44:LEU:HB2	2.01	0.60
36:BA:1430:C:H2'	36:BA:1431:U:C6	2.36	0.60
41:DF:178:PRO:HG2	41:DF:179:GLU:OE1	2.00	0.60
25:AY:12:LEU:HB3	25:AY:283:PRO:CD	2.30	0.60
1:CA:1288:A:H2	1:CA:1352:C:O2	1.85	0.60
36:DA:1043:C:H2'	36:DA:1044:G:C5'	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.02	0.60
40:DE:116:VAL:O	40:DE:117:MET:CB	2.50	0.60
25:AY:488:THR:O	25:AY:516:PRO:HG3	2.02	0.60
36:DA:272(I):U:O2	36:DA:272(I):U:H5'	2.01	0.60
31:D5:4:HIS:HB3	31:D5:5:PRO:CD	2.31	0.60
36:DA:2688:U:O2	36:DA:2688:U:H3'	2.02	0.60
25:AY:408:VAL:HG21	25:AY:660:ARG:NH2	2.17	0.60
41:DF:185:ASP:OD1	41:DF:188:ARG:HD3	2.01	0.60
26:B0:27:GLU:HA	26:B0:67:VAL:O	2.00	0.60
36:BA:1814:G:H4'	39:BD:51:VAL:HG21	1.83	0.60
1:AA:542:G:O2'	1:AA:543:C:H5'	2.02	0.60
23:AW:23:C:H5'	23:AW:23:C:H6	1.66	0.60
9:CI:8:GLY:CA	9:CI:79:LEU:HD12	2.30	0.60
39:BD:48:ARG:NH1	39:BD:48:ARG:HG3	2.16	0.60
36:BA:1528(A):A:H62	36:BA:1541:G:N2	1.99	0.60
1:AA:424:G:H2'	1:AA:425:G:H8	1.67	0.60
1:CA:999:C:H2'	1:CA:1000:U:C5	2.37	0.60
39:DD:145:VAL:HG12	39:DD:146:GLU:O	2.01	0.60
36:BA:2386:C:H2'	36:BA:2387:U:C6	2.37	0.60
13:CM:82:MET:CA	13:CM:93:ARG:HH21	2.15	0.60
57:DZ:149:SER:HB2	57:DZ:172:ALA:O	2.02	0.60
13:AM:82:MET:CA	13:AM:93:ARG:HH21	2.14	0.60
1:AA:1147:C:O2	9:AI:16:ARG:NH1	2.33	0.60
36:DA:1326:U:O2'	36:DA:1327:C:H5'	2.01	0.60
36:DA:1332:G:N2	36:DA:1609:A:H3'	2.15	0.60
47:BP:75:ILE:N	47:BP:75:ILE:HD12	2.17	0.60
54:BW:13:SER:HB3	54:BW:16:LYS:HD2	1.84	0.60
1:AA:513:C:O2'	1:AA:514:C:H5'	2.01	0.60
56:BY:27:VAL:HG12	56:BY:29:GLU:OE1	2.01	0.60
36:BA:295:G:H2'	36:BA:296:C:H6	1.66	0.60
46:DO:26:LYS:HB3	46:DO:30:ALA:CB	2.31	0.60
36:DA:528:A:C2	36:DA:2043:C:H5'	2.36	0.60
38:BC:57:GLN:NE2	38:BC:205:ALA:HA	2.16	0.60
36:BA:784:A:H5''	39:BD:227:ASN:HD21	1.67	0.60
53:BV:24:LYS:HA	53:BV:92:THR:HG23	1.84	0.60
48:BQ:43:THR:O	48:BQ:47:ILE:HG13	2.02	0.60
36:DA:1057:A:H61	36:DA:1081:U:H3	1.48	0.60
1:AA:820:U:H4'	1:AA:821:G:OP2	2.01	0.60
36:DA:556:G:H2'	36:DA:557:U:C6	2.36	0.60
43:DH:130:ARG:HB3	43:DH:130:ARG:NH1	2.15	0.60
36:DA:402:A:O2'	36:DA:403:U:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2832:U:H1'	36:BA:2834:G:N3	2.16	0.60
36:DA:2537:U:H2'	36:DA:2538:C:C6	2.36	0.60
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.01	0.60
30:B4:55:ARG:HH21	30:B4:56:VAL:HG22	1.66	0.60
25:CY:82:ILE:CD1	25:CY:101:LEU:HD23	2.30	0.60
41:BF:119:ARG:HH11	41:BF:119:ARG:HG2	1.66	0.60
25:CY:546:ILE:CG2	25:CY:590:ILE:HG13	2.26	0.60
36:BA:84:A:H5'	56:BY:9:LYS:CB	2.31	0.60
36:BA:1141:U:H5''	45:BN:63:THR:CG2	2.32	0.60
45:BN:21:LYS:HB3	45:BN:26:LEU:HD23	1.82	0.60
9:CI:114:TYR:HD2	10:CJ:60:ARG:HG3	1.65	0.60
31:D5:3:LYS:HD2	31:D5:5:PRO:HD2	1.82	0.60
36:DA:1301:A:H4'	36:DA:1302:A:OP1	2.02	0.60
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.31	0.60
51:DT:26:ASP:HB3	51:DT:89:VAL:O	2.02	0.60
25:AY:9:LEU:HD22	25:AY:284:LEU:HD22	1.83	0.60
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	1.82	0.60
10:CJ:71:LEU:HD12	10:CJ:72:VAL:H	1.67	0.60
36:DA:479:A:HO2'	36:DA:481:G:H8	1.49	0.60
22:AV:61:C:O2'	22:AV:62:C:H5'	2.00	0.60
36:DA:2777:G:C5'	36:DA:2778:A:H5''	2.31	0.60
23:CW:49:G:C3'	23:CW:50:U:H5''	2.31	0.60
36:BA:2776:A:H4'	36:BA:2777:G:C5'	2.32	0.60
36:BA:1047:G:HO2'	36:BA:1110:G:N2	1.99	0.60
36:DA:621:A:H2'	36:DA:622:G:C5'	2.31	0.60
3:AC:11:ARG:HH21	3:AC:180:ALA:HB3	1.66	0.60
9:AI:53:VAL:O	9:AI:54:ASP:HB2	2.01	0.60
25:CY:276:VAL:O	25:CY:280:LEU:HD23	2.02	0.60
7:AG:81:GLY:O	7:AG:83:ALA:N	2.34	0.60
42:BG:131:TYR:HE2	42:BG:133:LEU:HB3	1.66	0.60
53:DV:5:VAL:HG23	53:DV:37:VAL:HG23	1.82	0.60
47:BP:64:LYS:C	47:BP:66:GLY:H	2.05	0.60
1:AA:179:A:H2'	1:AA:180:U:C6	2.37	0.60
56:DY:88:LYS:NZ	56:DY:93:GLY:O	2.33	0.60
47:BP:71:VAL:H	47:BP:72:PRO:CD	2.15	0.60
19:CS:53:ASN:O	19:CS:55:LYS:N	2.35	0.60
36:DA:2348:U:H2'	36:DA:2349:G:H5''	1.83	0.60
53:DV:24:LYS:HA	53:DV:92:THR:HG23	1.83	0.60
47:DP:108:LYS:C	47:DP:110:TYR:H	2.04	0.60
36:DA:64:A:C4	55:DX:66:LEU:HD13	2.37	0.60
12:AL:59:ARG:CZ	25:AY:422:GLU:OE2	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:43:HIS:O	4:CD:45:GLN:N	2.34	0.60
43:DH:70:THR:HG22	43:DH:74:ASN:ND2	2.16	0.60
24:AX:14:U:H5'	24:AX:15:G:OP2	2.00	0.60
36:DA:965:C:C4'	36:DA:2273:A:H1'	2.32	0.60
41:DF:119:ARG:HH11	41:DF:119:ARG:HG2	1.66	0.60
23:AW:5:G:H1	23:AW:68:C:H42	1.49	0.60
55:BX:35:THR:HG22	55:BX:37:THR:N	2.05	0.60
47:DP:27:HIS:CD2	47:DP:28:GLY:N	2.70	0.60
34:D8:30:ARG:O	34:D8:31:HIS:HB3	2.02	0.60
36:DA:84:A:C5'	56:DY:9:LYS:HZ2	2.14	0.60
31:D5:47:PRO:O	31:D5:57:VAL:HG22	2.02	0.60
32:D6:15:GLU:CD	32:D6:44:ARG:NH1	2.55	0.60
25:AY:630:GLN:HG2	25:AY:630:GLN:O	2.02	0.60
47:DP:86:LYS:HB2	47:DP:117:GLU:O	2.01	0.60
46:BO:69:ILE:HD13	46:BO:77:ILE:HG23	1.83	0.60
36:BA:2056:G:H2'	36:BA:2056:G:N3	2.16	0.60
36:BA:811:U:O2'	36:BA:812:C:H5''	2.01	0.60
40:BE:70:ALA:O	40:BE:71:GLY:C	2.40	0.60
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.30	0.60
1:CA:1226:C:H5'	13:CM:96:LEU:CD1	2.31	0.60
36:DA:2776:A:H4'	36:DA:2777:G:C5'	2.31	0.60
42:BG:109:VAL:C	42:BG:112:PRO:HD2	2.22	0.60
12:CL:70:ILE:CG2	12:CL:100:ILE:HD12	2.32	0.60
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.60	0.60
25:AY:276:VAL:CA	25:AY:280:LEU:HD23	2.31	0.60
30:D4:14:ILE:HG23	30:D4:31:ILE:HG22	1.84	0.60
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.17	0.60
25:AY:335:LEU:HD21	25:AY:352:VAL:HG21	1.82	0.60
7:CG:81:GLY:O	7:CG:83:ALA:N	2.35	0.60
36:BA:977:G:HO2'	36:BA:1001:A:H2	1.46	0.60
36:DA:781:A:C8	39:DD:219:PRO:HG3	2.36	0.60
47:DP:64:LYS:C	47:DP:66:GLY:H	2.05	0.60
36:BA:2076:U:H5'	36:BA:2238:G:H22	1.64	0.60
1:CA:865:A:H5'	1:CA:1078:U:O4	2.02	0.60
37:DB:21:G:N3	37:DB:21:G:H2'	2.16	0.60
12:AL:82:VAL:HG12	12:AL:105:TYR:HD2	1.66	0.60
36:DA:2547:U:H2'	36:DA:2548:G:H8	1.66	0.60
36:BA:1914:C:H2'	36:BA:1915:U:O4'	2.01	0.60
36:BA:2716:U:O2'	36:BA:2717:G:H5'	2.02	0.60
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	1.83	0.60
36:BA:878:A:H2'	36:BA:879:G:O4'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1217:C:OP2	52:DU:15:LYS:NZ	2.28	0.60
36:BA:1432:C:H2'	36:BA:1433:U:O4'	2.01	0.60
48:BQ:30:GLY:HA2	48:BQ:107:ALA:HB2	1.83	0.60
50:BS:89:ARG:HH11	50:BS:89:ARG:HG2	1.66	0.60
40:BE:117:MET:O	40:BE:117:MET:HG2	2.02	0.60
47:BP:86:LYS:HB2	47:BP:117:GLU:O	2.02	0.60
2:AB:187:LEU:HD12	2:AB:205:ASP:HA	1.84	0.60
18:CR:43:PHE:HE2	18:CR:58:LEU:HD11	1.66	0.60
3:AC:180:ALA:O	3:AC:181:ASN:HB3	2.02	0.60
12:CL:27:LEU:HD13	12:CL:28:LYS:H	1.67	0.60
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	1.82	0.60
48:DQ:59:ARG:HB3	57:DZ:180:VAL:CG2	2.32	0.60
1:CA:1326:C:O2'	1:CA:1327:C:H5'	2.01	0.60
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.84	0.60
2:AB:142:LEU:O	2:AB:146:GLN:HB2	2.01	0.60
51:BT:62:THR:HG22	51:BT:75:ILE:HG13	1.84	0.60
36:DA:1430:C:H2'	36:DA:1431:U:H6	1.66	0.60
36:DA:2656:U:H2'	36:DA:2657:A:H5''	1.84	0.60
1:CA:865:A:C2	1:CA:918:A:H4'	2.35	0.60
36:DA:754:C:H2'	36:DA:755:C:C6	2.36	0.60
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.17	0.60
36:BA:2422:A:H4'	36:BA:2423:U:OP1	2.02	0.60
36:BA:723:G:H2'	36:BA:724:U:C6	2.37	0.60
17:AQ:80:GLY:O	17:AQ:81:ARG:HD2	2.01	0.60
1:AA:683:G:H5'	1:AA:684:A:OP2	2.01	0.60
23:AW:36:U:O5'	23:AW:36:U:H6	1.85	0.60
48:DQ:3:MET:HB2	48:DQ:4:PRO:HD2	1.83	0.60
39:DD:232:PRO:HD2	39:DD:249:PRO:HA	1.84	0.60
25:AY:169:GLY:HA3	25:AY:173:THR:O	2.02	0.60
12:CL:82:VAL:HG12	12:CL:105:TYR:CD2	2.37	0.60
36:BA:965:C:C4'	36:BA:2273:A:H1'	2.32	0.60
25:CY:451:ILE:HD11	25:CY:462:ILE:HG21	1.82	0.60
9:CI:113:LYS:HD2	9:CI:119:ALA:HB1	1.83	0.60
9:AI:113:LYS:HD2	9:AI:119:ALA:HB1	1.84	0.60
36:DA:2309:A:C2'	36:DA:2310:A:H5''	2.32	0.60
42:BG:95:ARG:O	42:BG:96:ARG:O	2.19	0.60
50:DS:88:ASP:OD1	50:DS:89:ARG:N	2.35	0.60
57:DZ:69:THR:HG22	57:DZ:90:VAL:CA	2.24	0.60
56:BY:13:VAL:HG22	56:BY:14:LEU:N	2.16	0.60
40:DE:133:LYS:H	40:DE:134:ILE:HD12	1.66	0.60
31:B5:3:LYS:NZ	36:BA:2613:U:C2'	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:77:ILE:HG22	40:BE:78:LEU:HD12	1.83	0.60
1:AA:1053:G:N7	1:AA:1200:C:H5''	2.17	0.60
25:CY:25:LYS:CE	25:CY:86:GLY:HA2	2.31	0.60
36:DA:2591:C:OP2	39:DD:239:ARG:HB3	2.01	0.60
41:BF:192:LEU:HD23	41:BF:193:VAL:N	2.17	0.60
9:AI:53:VAL:CG1	9:AI:95:LYS:HE3	2.31	0.60
1:AA:1509:C:O2'	1:AA:1510:U:H5'	2.01	0.60
36:BA:1779:U:C5	36:BA:1784:A:N7	2.67	0.60
22:CV:4:C:O2'	22:CV:5:G:H8	1.83	0.60
30:B4:31:ILE:O	30:B4:31:ILE:HG22	2.01	0.60
36:DA:654:A:N7	36:DA:654(V):A:H4'	2.17	0.60
12:AL:38:THR:HG23	12:AL:57:LYS:HB3	1.84	0.60
36:BA:1999:C:O2'	36:BA:2000:G:H5'	2.02	0.60
36:DA:1582:C:H2'	36:DA:1583:A:C8	2.35	0.60
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.83	0.60
1:AA:986:A:H1'	19:AS:54:GLY:O	2.00	0.60
53:DV:5:VAL:HG23	53:DV:37:VAL:O	2.02	0.60
36:BA:2348:U:C2'	36:BA:2349:G:H5''	2.32	0.60
1:AA:865:A:H2	1:AA:918:A:H4'	1.67	0.60
9:AI:3:GLN:NE2	9:AI:20:ARG:HH21	2.00	0.60
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.02	0.60
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.66	0.60
38:DC:117:THR:HG22	38:DC:147:GLY:O	2.02	0.60
43:DH:40:GLU:HG3	43:DH:64:LEU:HD13	1.84	0.60
36:BA:1090:U:O2	36:BA:1102:C:H1'	2.02	0.60
36:DA:1556:C:H2'	36:DA:1557:C:C6	2.36	0.60
36:BA:402:A:O2'	36:BA:403:U:H5'	2.02	0.60
42:DG:181:ARG:CZ	42:DG:181:ARG:HB2	2.31	0.60
36:BA:139:G:C6	36:BA:140:G:H2'	2.36	0.60
36:DA:2411:A:O2'	36:DA:2412:A:H5'	2.01	0.60
1:AA:992:U:H1'	1:AA:993:G:C2	2.37	0.60
24:CX:11:A:C1'	24:CX:12:A:N7	2.52	0.60
42:DG:3:LEU:HD23	42:DG:97:ASP:OD2	2.02	0.60
25:AY:141:LYS:CE	60:AY:702:GDP:HN22	2.13	0.60
25:CY:174:PHE:HZ	25:CY:261:GLY:HA2	1.66	0.60
50:BS:97:ARG:HE	50:BS:97:ARG:C	2.05	0.60
32:B6:8:LYS:O	32:B6:9:LEU:HD13	2.01	0.60
36:DA:1902:C:H4'	39:DD:244:ARG:HB2	1.84	0.60
25:CY:609:GLU:CG	25:CY:670:VAL:HG21	2.32	0.60
25:AY:168:ILE:HD11	25:AY:178:ILE:CD1	2.32	0.60
51:BT:28:VAL:O	51:BT:28:VAL:HG12	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:130:ALA:C	39:DD:131:LEU:HD12	2.22	0.60
1:CA:1442(B):A:C2	51:DT:118:ARG:NH2	2.70	0.60
25:AY:509:HIS:ND1	25:AY:570:GLY:HA2	2.17	0.60
45:DN:134:ARG:O	45:DN:136:GLU:N	2.34	0.60
57:DZ:163:LEU:CD2	57:DZ:163:LEU:H	2.10	0.60
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.28	0.60
43:BH:44:VAL:C	43:BH:46:GLU:H	2.05	0.60
25:AY:35:TYR:CE2	25:AY:269:VAL:HB	2.37	0.60
27:B1:50:ARG:HG2	27:B1:59:THR:HG22	1.82	0.60
25:CY:25:LYS:NZ	25:CY:86:GLY:HA2	2.17	0.60
36:DA:709:U:H2'	36:DA:710:G:C8	2.37	0.60
23:AW:51:C:H2'	23:AW:52:G:O4'	2.01	0.60
1:AA:1442:G:C6	1:AA:1442(B):A:C2	2.86	0.60
36:BA:1436:G:H1'	36:BA:1477:A:HO2'	1.66	0.60
41:BF:154:VAL:HG11	41:BF:193:VAL:HG23	1.83	0.60
19:CS:62:ILE:O	19:CS:62:ILE:HG23	2.02	0.60
57:BZ:77:ASP:O	57:BZ:78:LYS:C	2.39	0.60
36:BA:2148:G:O2'	36:BA:2149:G:H5'	2.02	0.60
25:CY:377:VAL:HG21	25:CY:380:LEU:CD2	2.32	0.60
36:BA:884:C:H41	36:BA:886:C:H42	1.50	0.60
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.84	0.60
25:CY:293:THR:HB	25:CY:294:PRO:HD2	1.83	0.60
1:CA:1005:A:H5'	1:CA:1006:C:OP2	2.01	0.60
1:CA:1008:C:H2'	1:CA:1009:G:H8	1.66	0.60
1:AA:1008:C:H2'	1:AA:1009:G:H8	1.66	0.60
1:CA:59:A:H2'	1:CA:59:A:N3	2.14	0.60
1:CA:460:G:H5'	1:CA:461:A:OP2	2.02	0.60
36:BA:1198:U:H2'	36:BA:1198:U:O2	2.00	0.60
3:AC:110:ASN:HD21	3:AC:140:ARG:HB3	1.65	0.60
37:BB:44:G:H1'	37:BB:47:C:N4	2.17	0.60
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.16	0.60
1:AA:35:G:H2'	1:AA:36:C:C6	2.37	0.60
5:CE:41:VAL:HG22	5:CE:113:ALA:HA	1.82	0.60
10:CJ:20:ALA:C	10:CJ:22:LYS:H	2.06	0.60
36:BA:2299:G:O2'	36:BA:2300:G:H5'	2.02	0.60
36:BA:1930:G:O2'	36:BA:1931:U:P	2.60	0.60
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.02	0.60
8:CH:63:LEU:HD22	8:CH:63:LEU:H	1.67	0.60
7:CG:22:LEU:HD23	7:CG:22:LEU:O	2.01	0.60
42:DG:121:ASN:HB3	42:DG:124:SER:CB	2.26	0.59
25:CY:16:GLY:O	25:CY:104:ALA:HB1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:92:ILE:CG1	25:CY:405:PRO:HG2	2.30	0.59
25:CY:136:ALA:HB3	25:CY:260:LEU:CB	2.22	0.59
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.01	0.59
42:BG:68:PRO:CB	42:BG:90:LEU:HD11	2.31	0.59
36:BA:274:G:O2'	36:BA:275:G:H5''	2.02	0.59
55:DX:8:ILE:H	55:DX:8:ILE:HD12	1.66	0.59
9:CI:114:TYR:CD2	10:CJ:60:ARG:HG3	2.37	0.59
36:BA:2262:U:C2'	36:BA:2263:C:C5'	2.79	0.59
28:B2:37:PHE:O	28:B2:41:ILE:HG23	2.02	0.59
25:CY:652:MET:HE2	25:CY:655:TYR:HB2	1.84	0.59
41:BF:187:VAL:HG12	47:BP:7:ARG:NH2	2.17	0.59
36:BA:2761:G:C3'	36:BA:2762:G:H5''	2.32	0.59
36:DA:94:C:H5'	36:DA:94(A):G:OP2	2.01	0.59
34:B8:13:ARG:HB3	47:BP:63:PRO:HB3	1.84	0.59
3:AC:94:LEU:O	3:AC:95:THR:HG23	2.02	0.59
36:DA:1814:G:H4'	39:DD:51:VAL:HG21	1.83	0.59
26:D0:77:ARG:HH22	36:DA:857:C:H5'	1.66	0.59
34:D8:56:GLU:HA	34:D8:59:LYS:NZ	2.17	0.59
5:AE:145:LYS:HA	8:AH:107:LEU:CD2	2.32	0.59
36:BA:1434:A:H61	36:BA:1558:A:H62	1.48	0.59
23:CW:50:U:H3	23:CW:64:G:N2	1.97	0.59
23:CW:11:A:H61	23:CW:24:U:H3	1.48	0.59
1:AA:1129:C:H2'	1:AA:1139:G:N7	2.16	0.59
43:DH:43:VAL:HG12	43:DH:52:VAL:HA	1.84	0.59
54:BW:20:VAL:HG23	54:BW:47:VAL:HG21	1.84	0.59
36:BA:816:C:O2'	36:BA:817:C:H5'	2.01	0.59
36:DA:569:U:C4	36:DA:570:G:C6	2.90	0.59
49:BR:12:ARG:HG3	49:BR:12:ARG:HH11	1.67	0.59
37:BB:21:G:N3	37:BB:21:G:H2'	2.16	0.59
49:DR:55:ALA:HB2	49:DR:79:LEU:HD11	1.84	0.59
1:CA:41:G:H2'	1:CA:42:G:C8	2.36	0.59
1:CA:943:U:C2'	1:CA:944:G:H5'	2.32	0.59
1:CA:403:C:O2'	1:CA:404:U:H5'	2.01	0.59
36:BA:1930:G:H2'	36:BA:1968:G:O6	2.02	0.59
44:DJ:56:UNK:HA	44:DJ:83:UNK:O	2.02	0.59
40:DE:26:ILE:HG21	40:DE:196:VAL:HG21	1.84	0.59
8:AH:118:VAL:O	8:AH:119:LEU:HD23	2.01	0.59
26:B0:78:TYR:HD1	26:B0:78:TYR:H	1.48	0.59
11:AK:126:ARG:O	11:AK:128:ALA:N	2.34	0.59
1:CA:936:C:O2'	1:CA:937:A:H5'	2.01	0.59
25:AY:379:GLY:O	25:AY:380:LEU:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DX:12:VAL:CB	55:DX:17:ALA:HB1	2.17	0.59
50:BS:88:ASP:OD1	50:BS:89:ARG:N	2.34	0.59
36:BA:1803:A:O3'	39:BD:259:THR:CG2	2.45	0.59
32:B6:43:CYS:HB2	32:B6:44:ARG:HH21	1.67	0.59
47:DP:115:LEU:HD23	47:DP:115:LEU:N	2.17	0.59
1:AA:346:G:OP2	51:BT:41:ARG:NH2	2.34	0.59
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.66	0.59
36:BA:1485:G:C1'	36:BA:1505:C:H42	2.14	0.59
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.84	0.59
36:BA:1518:U:H2'	36:BA:1519:G:O4'	2.02	0.59
36:DA:943:U:OP2	47:DP:38:GLN:CD	2.40	0.59
36:DA:2200:C:H2'	36:DA:2200:C:O2	2.03	0.59
37:DB:65:C:H2'	37:DB:109:C:N4	2.16	0.59
42:BG:38:VAL:HG22	42:BG:93:THR:HG23	1.82	0.59
18:AR:46:GLU:HA	18:AR:46:GLU:OE1	2.02	0.59
23:AW:51:C:C2'	23:AW:52:G:H5''	2.32	0.59
26:B0:42:GLY:HA3	36:BA:2331:G:C4'	2.32	0.59
54:DW:47:VAL:HA	54:DW:50:VAL:HG12	1.84	0.59
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.23	0.59
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.18	0.59
50:BS:51:ALA:CB	50:BS:73:LEU:HB2	2.32	0.59
36:DA:631:A:OP1	47:DP:64:LYS:HE2	2.02	0.59
47:DP:71:VAL:H	47:DP:72:PRO:CD	2.15	0.59
36:DA:2406:U:N3	47:DP:72:PRO:HB2	2.17	0.59
56:DY:55:TYR:HD1	56:DY:55:TYR:N	2.00	0.59
38:DC:60:ARG:HG3	38:DC:165:ARG:HG3	1.84	0.59
36:BA:1812:A:O2'	36:BA:1813:G:H5'	2.02	0.59
43:BH:66:GLY:HA2	43:BH:69:ARG:HB3	1.83	0.59
39:BD:31:LYS:NZ	39:BD:33:LEU:HB2	2.17	0.59
53:DV:2:PHE:O	53:DV:3:ALA:HB3	2.02	0.59
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.06	0.59
36:DA:733:G:H8	36:DA:733:G:O5'	1.86	0.59
36:DA:2606:C:O2'	36:DA:2607:G:H5'	2.01	0.59
1:CA:418:C:H2'	1:CA:419:C:C6	2.37	0.59
25:CY:415:PRO:HA	25:CY:474:ALA:CB	2.32	0.59
25:AY:605:ILE:CG2	25:AY:646:PHE:HB3	2.32	0.59
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.13	0.59
40:DE:111:ARG:HA	49:DR:2:ARG:CB	2.25	0.59
25:AY:185:ALA:HB2	25:AY:201:ILE:HD12	1.83	0.59
51:DT:28:VAL:O	51:DT:28:VAL:HG12	2.02	0.59
31:B5:3:LYS:HG2	36:BA:747:U:O4	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:58:ILE:O	34:B8:59:LYS:HG3	2.01	0.59
36:BA:2523:G:C2'	36:BA:2524:G:C5'	2.74	0.59
28:B2:67:LYS:O	28:B2:70:GLN:HG3	2.03	0.59
31:D5:36:CYS:SG	31:D5:38:ALA:HB3	2.42	0.59
1:CA:1255:G:H2'	1:CA:1279:A:N6	2.17	0.59
10:CJ:8:LEU:HD21	10:CJ:96:ILE:HG22	1.83	0.59
51:DT:62:THR:HG22	51:DT:75:ILE:HG13	1.84	0.59
42:BG:43:LEU:HD11	42:BG:153:ARG:HD3	1.85	0.59
42:BG:72:ARG:HB3	42:BG:87:PRO:HD2	1.83	0.59
55:BX:10:ALA:HB1	55:BX:11:PRO:CD	2.32	0.59
36:BA:2591:C:OP2	39:BD:239:ARG:HB3	2.03	0.59
37:BB:65:C:H2'	37:BB:109:C:N4	2.16	0.59
57:DZ:9:TYR:CE1	57:DZ:61:LEU:HD22	2.37	0.59
39:DD:158:ALA:HB3	39:DD:161:THR:CG2	2.31	0.59
1:CA:542:G:O2'	1:CA:543:C:H5'	2.01	0.59
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.03	0.59
9:CI:53:VAL:CG1	9:CI:95:LYS:HE3	2.31	0.59
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.29	0.59
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	1.84	0.59
36:BA:1155:A:O3'	52:BU:55:ARG:NH1	2.36	0.59
25:CY:135:PHE:CE1	25:CY:272:LEU:HD22	2.37	0.59
30:B4:14:ILE:HG23	30:B4:31:ILE:HG22	1.84	0.59
3:AC:173:VAL:HG12	3:AC:175:LEU:CD1	2.31	0.59
37:BB:3:C:N4	37:BB:118:G:H1	1.99	0.59
48:DQ:51:ARG:O	48:DQ:55:VAL:HG12	2.03	0.59
27:D1:53:VAL:HG22	27:D1:74:VAL:HG13	1.83	0.59
34:D8:25:MET:SD	47:DP:64:LYS:HD2	2.42	0.59
57:DZ:104:PHE:CD1	57:DZ:139:VAL:HG21	2.37	0.59
30:B4:2:LYS:O	30:B4:3:GLU:HB2	2.01	0.59
3:AC:152:ILE:HG22	3:AC:167:TRP:HA	1.83	0.59
8:AH:29:SER:OG	8:AH:32:LYS:HG3	2.02	0.59
1:AA:337:C:H2'	1:AA:338:A:H8	1.67	0.59
46:DO:105:GLU:HA	46:DO:108:GLU:OE2	2.03	0.59
39:DD:28:GLU:HB2	39:DD:29:PRO:CD	2.32	0.59
2:AB:193:ASP:OD1	2:AB:193:ASP:O	2.19	0.59
39:BD:176:ARG:HG2	39:BD:176:ARG:HH11	1.67	0.59
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.02	0.59
23:CW:36:U:O5'	23:CW:36:U:H6	1.85	0.59
42:DG:42:GLY:HA2	42:DG:89:GLY:HA2	1.84	0.59
25:CY:314:PHE:HD1	25:CY:315:LYS:HB2	1.67	0.59
1:CA:975:A:H5'	1:CA:975:A:H8	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:182:ARG:HG2	25:CY:239:GLU:OE2	2.03	0.59
36:DA:2784:C:H1'	40:DE:37:ARG:NH1	2.17	0.59
50:BS:88:ASP:CG	50:BS:89:ARG:N	2.55	0.59
36:BA:2050:C:H1'	40:BE:156:MET:CE	2.32	0.59
25:AY:485:GLU:HB2	25:AY:560:VAL:HG22	1.85	0.59
32:B6:27:LYS:HB3	32:B6:30:THR:HG22	1.84	0.59
28:D2:2:LYS:O	28:D2:6:VAL:HG23	2.01	0.59
32:B6:15:GLU:CD	32:B6:44:ARG:HH22	2.04	0.59
36:BA:636:G:H2'	47:BP:115:LEU:HD12	1.84	0.59
20:AT:43:LEU:HB3	20:AT:48:LYS:HB2	1.84	0.59
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.02	0.59
36:DA:1485:G:C1'	36:DA:1505:C:H42	2.15	0.59
36:BA:814:C:H2'	36:BA:815:C:C6	2.38	0.59
14:AN:12:ARG:HB3	14:AN:12:ARG:HH11	1.67	0.59
36:BA:1485:G:H2'	36:BA:1486:A:C8	2.37	0.59
40:BE:45:THR:O	40:BE:46:ALA:HB2	2.03	0.59
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.67	0.59
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.31	0.59
45:BN:17:ASP:OD2	45:BN:56:ASN:HB3	2.03	0.59
10:CJ:54:PHE:CG	10:CJ:55:LYS:HE3	2.38	0.59
39:BD:183:ARG:HD2	39:BD:270:ILE:HG23	1.82	0.59
2:CB:9:GLU:OE1	2:CB:9:GLU:N	2.36	0.59
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.32	0.59
25:CY:25:LYS:HA	25:CY:28:THR:HB	1.84	0.59
36:DA:1155:A:O3'	52:DU:55:ARG:NH1	2.35	0.59
9:AI:79:LEU:HD11	9:AI:83:ARG:HD2	1.84	0.59
30:D4:31:ILE:HG22	30:D4:31:ILE:O	2.02	0.59
37:DB:85:G:O2'	37:DB:86:G:H5'	2.01	0.59
40:BE:11:MET:CB	40:BE:24:THR:HA	2.31	0.59
36:DA:2000:G:O2'	36:DA:2001:A:H5'	2.01	0.59
36:BA:2745:C:H4'	43:BH:142:GLY:O	2.02	0.59
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.84	0.59
13:CM:40:ASN:HD21	13:CM:42:ALA:HB3	1.68	0.59
36:BA:2514:U:H2'	36:BA:2515:C:C6	2.38	0.59
28:D2:50:ILE:HG23	28:D2:54:LYS:HE3	1.84	0.59
36:DA:1509(A):A:H2'	36:DA:1509(B):A:H8	1.68	0.59
25:CY:495:GLY:O	25:CY:585:ALA:HB1	2.02	0.59
36:BA:2411:A:O2'	36:BA:2412:A:H5'	2.02	0.59
25:AY:614:GLU:HA	25:AY:617:MET:HB2	1.85	0.59
1:AA:404:U:H2'	1:AA:405:U:H6	1.67	0.59
42:BG:32:PRO:HA	42:BG:162:THR:HB	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:731:G:OP1	1:CA:766:A:H1'	2.02	0.59
11:CK:126:ARG:O	11:CK:128:ALA:N	2.36	0.59
1:AA:357:G:O2'	1:AA:358:U:H5'	2.03	0.59
36:DA:777:A:H2'	36:DA:778:G:C8	2.38	0.59
42:BG:63:ILE:HD12	42:BG:64:THR:HB	1.84	0.59
14:CN:41:ARG:HH11	14:CN:41:ARG:HG2	1.67	0.59
32:B6:19:ARG:O	32:B6:20:ASN:O	2.20	0.59
36:DA:2262:U:C2'	36:DA:2263:C:C5'	2.79	0.59
41:DF:188:ARG:HA	47:DP:7:ARG:HH21	1.67	0.59
26:B0:77:ARG:HH22	36:BA:857:C:H5'	1.67	0.59
36:BA:2811:G:H2'	36:BA:2812:G:H8	1.67	0.59
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.02	0.59
49:DR:9:LYS:O	49:DR:10:LEU:HD23	2.01	0.59
9:CI:5:TYR:HD1	9:CI:6:GLY:H	1.46	0.59
51:BT:132:LYS:HG2	51:BT:133:GLU:N	2.16	0.59
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.83	0.59
55:DX:10:ALA:HB1	55:DX:11:PRO:CD	2.33	0.59
12:AL:70:ILE:CG2	12:AL:100:ILE:HD12	2.33	0.59
1:AA:999:C:H2'	1:AA:1000:U:C5	2.36	0.59
42:BG:111:LEU:HB2	42:BG:112:PRO:HD3	1.84	0.59
18:AR:43:PHE:HE2	18:AR:58:LEU:HD11	1.68	0.59
36:BA:709:U:H2'	36:BA:710:G:C8	2.37	0.59
36:DA:2590:A:O2'	36:DA:2591:C:H5'	2.02	0.59
36:BA:392:C:H5"	36:BA:409:C:H5"	1.85	0.59
43:BH:43:VAL:HG12	43:BH:52:VAL:HA	1.84	0.59
36:BA:654(M):C:O2'	36:BA:654(N):G:H8	1.84	0.59
36:DA:2464:C:HO2'	36:DA:2465:C:H6	1.45	0.59
9:CI:125:TYR:HD1	9:CI:126:SER:N	1.99	0.59
36:DA:787:U:OP1	36:DA:1780:A:N6	2.35	0.59
16:CP:67:THR:HB	16:CP:70:ALA:HB2	1.85	0.59
29:B3:4:LEU:O	29:B3:36:VAL:HA	2.03	0.59
57:BZ:103:ARG:HD2	57:BZ:136:PHE:CD1	2.37	0.59
38:BC:4:HIS:ND1	38:BC:8:TYR:CE2	2.69	0.59
36:BA:781:A:C8	39:BD:219:PRO:HG3	2.37	0.59
47:BP:122:PRO:HA	47:BP:141:ALA:O	2.03	0.59
48:DQ:34:LEU:HD12	48:DQ:130:LYS:O	2.02	0.59
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.66	0.59
40:DE:108:SER:HB3	40:DE:165:VAL:HG21	1.83	0.59
25:AY:617:MET:CE	25:AY:641:GLN:HB3	2.33	0.59
1:AA:403:C:O2'	1:AA:404:U:H5'	2.01	0.59
36:DA:1090:U:O2	36:DA:1102:C:H1'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1336:A:OP2	55:DX:64:LYS:HE3	2.03	0.59
20:AT:55:ILE:O	20:AT:58:LYS:HB3	2.02	0.59
36:DA:1624:G:O2'	36:DA:1625:C:H5'	2.03	0.59
39:BD:28:GLU:HB2	39:BD:29:PRO:CD	2.33	0.59
1:CA:46:G:O2'	1:CA:365:U:H1'	2.03	0.59
36:DA:2219:G:O2'	36:DA:2220:G:H5'	2.01	0.59
22:AV:6:G:H1	22:AV:67:C:H42	1.50	0.59
36:BA:2547:U:H2'	36:BA:2548:G:H8	1.66	0.59
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.03	0.59
25:AY:313:ALA:HA	25:AY:328:ILE:HG22	1.83	0.59
52:BU:90:VAL:O	52:BU:92:ARG:N	2.36	0.59
12:CL:18:VAL:O	12:CL:19:ARG:HB3	2.03	0.59
57:DZ:12:GLY:HA2	57:DZ:36:LYS:NZ	2.18	0.59
49:BR:113:LEU:HD12	49:BR:114:VAL:N	2.17	0.59
25:AY:553:GLY:HA2	25:AY:560:VAL:CG2	2.33	0.59
56:DY:14:LEU:HB2	56:DY:24:VAL:HG22	1.85	0.59
53:DV:51:VAL:HG12	53:DV:52:VAL:N	2.10	0.59
40:BE:117:MET:HA	40:BE:122:PHE:N	2.05	0.59
51:BT:125:ARG:NH1	51:BT:125:ARG:HA	2.09	0.59
47:BP:83:VAL:HB	47:BP:105:LEU:HD22	1.84	0.59
47:DP:6:LEU:HG	47:DP:7:ARG:H	1.67	0.59
36:BA:1242:A:C6	47:BP:8:PRO:HG2	2.37	0.59
39:BD:26:LYS:H	39:BD:26:LYS:HE2	1.67	0.59
36:BA:2712:U:C2'	36:BA:2712(A):A:O5'	2.51	0.59
36:DA:1539:G:H2'	36:DA:1540:U:O4'	2.03	0.59
1:CA:1053:G:N7	1:CA:1200:C:H5''	2.18	0.59
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.03	0.59
36:BA:1542:A:H5'	36:BA:1543:C:OP2	2.01	0.59
40:DE:199:ARG:NH1	40:DE:199:ARG:HB2	2.18	0.59
36:DA:709:U:H2'	36:DA:710:G:H8	1.67	0.59
25:AY:150:ILE:O	25:AY:154:GLN:HG2	2.02	0.59
1:CA:1238:A:C5'	1:CA:1336:C:H41	2.16	0.59
52:DU:54:LYS:O	52:DU:58:ARG:HG3	2.01	0.59
40:DE:36:ARG:HH22	40:DE:88:GLY:H	1.50	0.59
1:AA:284:G:H2'	1:AA:285:G:C8	2.35	0.59
36:DA:1819:A:H1'	36:DA:1821:A:C6	2.38	0.59
28:B2:2:LYS:HB3	36:BA:97:C:H5''	1.85	0.59
40:DE:11:MET:CB	40:DE:24:THR:HA	2.32	0.59
40:DE:45:THR:O	40:DE:46:ALA:HB2	2.03	0.59
48:BQ:75:THR:HG22	48:BQ:76:LYS:N	2.17	0.59
27:D1:3:LYS:HD3	36:DA:1364:G:H5''	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.02	0.59
29:B3:16:PRO:HB2	29:B3:18:ASP:OD1	2.03	0.59
38:BC:48:LEU:HD12	38:BC:48:LEU:N	2.17	0.59
36:BA:733:G:H8	36:BA:733:G:O5'	1.85	0.59
25:CY:134:ALA:HB3	25:CY:258:VAL:HG22	1.84	0.59
1:CA:1370:G:C2	1:CA:1371:G:C8	2.91	0.59
25:CY:157:LEU:CD2	25:CY:157:LEU:H	2.00	0.59
1:AA:1347:G:O2'	1:AA:1348:U:P	2.61	0.59
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.38	0.59
36:DA:962:G:H2'	36:DA:963:U:O4'	2.03	0.59
37:BB:49:C:H2'	37:BB:50:G:C8	2.38	0.59
3:AC:47:LEU:HD23	3:AC:52:LEU:HD13	1.84	0.59
36:BA:1141:U:H6	45:BN:63:THR:HG21	1.67	0.59
25:AY:608:VAL:O	25:AY:609:GLU:HG3	2.02	0.59
7:AG:27:ILE:CD1	7:AG:40:ALA:HA	2.27	0.59
36:DA:2722:G:H2'	36:DA:2723:C:C6	2.38	0.59
25:CY:670:VAL:HB	25:CY:672:PHE:CZ	2.37	0.59
25:AY:216:LEU:CD2	25:AY:246:ILE:HD11	2.33	0.59
36:BA:2441:C:O2'	36:BA:2442:C:H5'	2.02	0.59
14:CN:12:ARG:NH1	14:CN:14:PRO:HG3	2.12	0.59
47:DP:16:ARG:C	47:DP:16:ARG:HH11	2.05	0.59
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.02	0.59
39:BD:26:LYS:O	39:BD:27:THR:HG22	2.02	0.59
51:DT:78:LEU:HD13	51:DT:79:HIS:CE1	2.37	0.59
4:CD:30:LYS:C	4:CD:32:ALA:N	2.56	0.59
57:BZ:81:ARG:O	57:BZ:81:ARG:HG3	2.02	0.59
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.03	0.59
36:DA:1677:A:H2'	36:DA:1678:G:C8	2.37	0.59
43:BH:149:ARG:HD3	43:BH:164:TYR:CE1	2.37	0.59
47:DP:122:PRO:HA	47:DP:141:ALA:O	2.03	0.59
53:BV:5:VAL:HG23	53:BV:37:VAL:HG23	1.83	0.59
34:D8:8:LYS:O	34:D8:12:LYS:HG3	2.03	0.59
48:BQ:76:LYS:HE2	48:BQ:77:LYS:O	2.02	0.59
1:CA:1270:C:H4'	1:CA:1313:U:O2'	2.03	0.59
56:DY:84:ARG:HG2	56:DY:84:ARG:HH11	1.68	0.59
36:BA:1805:U:O2	39:BD:50:THR:HB	2.02	0.59
36:DA:1432:C:H2'	36:DA:1433:U:O4'	2.02	0.59
36:DA:158:U:H2'	36:DA:171:G:O4'	2.03	0.59
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.84	0.59
1:AA:219:C:H2'	1:AA:220:G:O4'	2.02	0.59
57:BZ:96:VAL:HG22	57:BZ:97:GLU:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:115:VAL:HA	38:DC:145:THR:CG2	2.33	0.59
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.03	0.59
42:DG:64:THR:HG23	42:DG:66:GLN:N	2.18	0.59
25:AY:124:GLN:O	25:AY:127:LYS:HB3	2.02	0.59
36:BA:2722:G:H2'	36:BA:2723:C:C6	2.38	0.59
36:DA:1069:A:O2'	36:DA:1070:A:H5''	2.02	0.59
36:BA:1069:A:O2'	36:BA:1070:A:H5''	2.03	0.59
13:AM:108:ARG:NH1	13:AM:108:ARG:HA	2.07	0.59
51:DT:102:ILE:HG13	51:DT:103:ARG:N	2.17	0.59
20:CT:43:LEU:HB3	20:CT:48:LYS:HB2	1.84	0.59
34:D8:53:PRO:HA	34:D8:56:GLU:HB2	1.85	0.59
28:D2:69:ARG:NH2	36:DA:111:A:H4'	2.17	0.59
40:DE:70:ALA:O	40:DE:71:GLY:C	2.41	0.59
10:CJ:6:ILE:CD1	10:CJ:72:VAL:HB	2.29	0.59
36:DA:1257:C:H2'	36:DA:1258:C:H6	1.68	0.59
2:AB:15:VAL:H	2:AB:16:HIS:CE1	2.21	0.59
43:BH:41:MET:HG3	43:BH:43:VAL:HG13	1.85	0.59
26:D0:10:THR:HG21	36:DA:2277:G:OP2	2.03	0.59
19:CS:45:VAL:O	19:CS:47:HIS:N	2.36	0.59
9:CI:53:VAL:O	9:CI:54:ASP:HB2	2.02	0.59
36:BA:654:A:N7	36:BA:654(V):A:H4'	2.17	0.59
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.33	0.59
1:AA:630:G:O2'	1:AA:631:G:H5'	2.01	0.59
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.68	0.59
45:DN:74:ARG:NH2	45:DN:83:LYS:HD3	2.18	0.59
37:BB:20:C:H2'	37:BB:21:G:C5'	2.33	0.59
36:BA:26:G:OP1	54:BW:80:PRO:HB3	2.02	0.59
3:CC:152:ILE:HG22	3:CC:167:TRP:HA	1.84	0.59
1:AA:41:G:H2'	1:AA:42:G:C8	2.37	0.59
1:AA:826:C:H2'	1:AA:827:U:H6	1.67	0.59
1:CA:1308:U:H5''	13:CM:98:VAL:HG23	1.85	0.59
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.03	0.59
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.84	0.59
36:DA:2121:G:O2'	38:DC:168:LYS:HG2	2.03	0.59
54:DW:95:ILE:O	54:DW:95:ILE:HG13	2.03	0.59
42:DG:38:VAL:O	42:DG:39:ILE:HG23	2.02	0.59
25:CY:145:ASP:OD2	25:CY:148:LEU:HB2	2.02	0.59
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.03	0.59
36:BA:2784:C:H1'	40:BE:37:ARG:NH1	2.18	0.59
3:CC:70:VAL:HG12	3:CC:71:ALA:N	2.17	0.59
50:DS:97:ARG:C	50:DS:97:ARG:NE	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:9:LEU:HD12	32:D6:28:ARG:CG	2.32	0.59
56:BY:14:LEU:HB2	56:BY:24:VAL:HG22	1.85	0.59
47:DP:101:VAL:HG12	47:DP:106:LEU:HB3	1.85	0.59
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.11	0.59
34:D8:47:LYS:NZ	34:D8:49:VAL:HG13	2.18	0.59
36:BA:1657:C:O2'	36:BA:1658:C:H5'	2.03	0.59
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.83	0.59
36:BA:2200:C:H2'	36:BA:2200:C:O2	2.03	0.59
29:D3:35:ARG:CD	29:D3:37:LEU:HD21	2.33	0.59
46:BO:97:ARG:HH11	46:BO:97:ARG:HG3	1.68	0.59
48:DQ:17:LEU:C	48:DQ:18:LYS:HD2	2.23	0.59
25:AY:416:LYS:HD3	25:AY:417:THR:N	2.18	0.59
1:AA:201:C:C2'	1:AA:202:U:H5''	2.32	0.59
1:CA:820:U:H4'	1:CA:821:G:OP2	2.02	0.59
19:AS:6:LYS:N	19:AS:6:LYS:HE3	2.18	0.59
36:DA:328:U:H4'	56:DY:68:HIS:NE2	2.18	0.59
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.84	0.59
25:CY:415:PRO:HB2	25:CY:420:ASP:C	2.23	0.59
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.84	0.59
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.18	0.59
53:BV:2:PHE:O	53:BV:3:ALA:HB3	2.03	0.59
17:CQ:26:GLN:HG2	17:CQ:37:LYS:HG3	1.85	0.59
31:B5:11:THR:OG1	36:BA:1263:U:O3'	2.21	0.59
26:D0:78:TYR:H	26:D0:78:TYR:HD1	1.50	0.59
12:CL:60:LEU:HD21	12:CL:66:VAL:HG22	1.85	0.59
25:CY:144:ALA:HB3	25:CY:171:GLU:HB3	1.83	0.59
52:BU:65:ILE:HD11	52:BU:93:LYS:HA	1.85	0.59
45:BN:10:GLU:CD	45:BN:11:PRO:HD2	2.23	0.59
42:BG:34:LEU:HD13	42:BG:99:MET:HE1	1.84	0.59
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.01	0.59
31:B5:55:ARG:HH12	49:BR:33:ARG:HG2	1.68	0.59
32:D6:38:LYS:HB3	36:DA:2344:U:H5''	1.85	0.59
51:BT:28:VAL:CG2	51:BT:46:GLU:HG3	2.33	0.59
51:DT:66:VAL:HA	51:DT:71:GLY:HA2	1.83	0.59
36:BA:1204:A:N1	36:BA:1241:A:H2	2.00	0.59
47:BP:9:ASN:H	47:BP:10:PRO:HD2	1.68	0.59
36:DA:2761:G:C3'	36:DA:2762:G:H5''	2.32	0.59
25:AY:539:ILE:N	25:AY:540:PRO:CD	2.65	0.59
36:BA:2712:U:H1'	36:BA:2712(A):A:C8	2.38	0.59
19:CS:64:GLU:HG2	30:D4:48:ARG:NH2	2.15	0.59
36:BA:545:C:H6	36:BA:545:C:OP1	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.33	0.59
4:AD:31:CYS:O	4:AD:31:CYS:SG	2.61	0.59
43:DH:149:ARG:HD3	43:DH:164:TYR:CE1	2.37	0.59
1:CA:539:A:H2'	1:CA:540:G:C8	2.38	0.59
38:DC:22:THR:HB	38:DC:229:SER:HB2	1.85	0.59
43:BH:88:LEU:HD23	43:BH:164:TYR:O	2.01	0.59
34:D8:25:MET:HG3	47:DP:64:LYS:HB3	1.85	0.59
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.38	0.59
48:DQ:75:THR:HG22	48:DQ:76:LYS:N	2.18	0.59
36:DA:852:G:H2'	36:DA:853:G:C8	2.38	0.59
40:DE:170:LEU:H	40:DE:170:LEU:HD12	1.67	0.59
2:CB:148:TYR:O	2:CB:149:LEU:HD23	2.03	0.59
36:BA:2492:U:O2'	36:BA:2493:U:H5'	2.02	0.59
8:CH:114:THR:HG21	8:CH:129:VAL:HG23	1.85	0.59
1:CA:296:U:O2'	1:CA:297:G:H5'	2.02	0.59
25:AY:637:ARG:HH11	25:AY:637:ARG:HG3	1.68	0.59
36:BA:1773:A:H2'	36:BA:1774:C:O4'	2.02	0.59
38:BC:60:ARG:HG3	38:BC:165:ARG:HG3	1.84	0.59
1:CA:695:A:H2'	1:CA:696:A:C8	2.37	0.59
36:BA:2555:U:H2'	36:BA:2556:C:H5'	1.84	0.59
42:DG:51:ARG:HE	42:DG:51:ARG:CA	2.02	0.58
25:AY:312:LEU:HD11	25:AY:401:SER:OG	2.03	0.58
41:DF:165:ARG:HH11	41:DF:165:ARG:HB3	1.67	0.58
42:DG:75:LYS:O	42:DG:76:SER:HB3	2.01	0.58
45:BN:3:THR:CG2	45:BN:5:VAL:HG23	2.33	0.58
36:BA:272(J):C:H42	36:BA:363:G:N2	2.01	0.58
56:DY:39:VAL:HG12	56:DY:40:GLU:HG2	1.85	0.58
28:B2:7:ARG:HG3	28:B2:7:ARG:NH1	2.17	0.58
52:DU:95:LEU:HD13	53:DV:4:ILE:CG2	2.33	0.58
39:BD:30:GLU:HG3	39:BD:63:ARG:CZ	2.33	0.58
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.33	0.58
51:DT:28:VAL:HG21	51:DT:46:GLU:HG3	1.84	0.58
25:AY:459:LEU:HD12	25:AY:459:LEU:H	1.68	0.58
36:BA:1375:C:H2'	36:BA:1376:C:C6	2.24	0.58
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.02	0.58
53:DV:28:GLU:OE1	53:DV:31:ALA:HB2	2.03	0.58
36:BA:1190:G:H5'	47:BP:35:HIS:H	1.68	0.58
40:DE:34:VAL:O	40:DE:35:GLN:CB	2.51	0.58
40:BE:36:ARG:HH22	40:BE:88:GLY:H	1.50	0.58
51:DT:62:THR:CG2	51:DT:75:ILE:HG13	2.33	0.58
36:DA:1542:A:H5'	36:DA:1543:C:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:30:G:O2'	23:CW:31:G:H5''	2.02	0.58
57:DZ:143:GLY:O	57:DZ:144:LEU:HD22	2.02	0.58
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.03	0.58
9:AI:8:GLY:CA	9:AI:79:LEU:HD12	2.33	0.58
48:BQ:56:ARG:NH2	57:BZ:180:VAL:HG11	2.18	0.58
48:BQ:59:ARG:HB3	57:BZ:180:VAL:HG21	1.84	0.58
36:DA:1788:C:O2'	36:DA:1789:A:H5'	2.03	0.58
1:CA:759:A:C2'	1:CA:760:G:H5'	2.33	0.58
31:D5:58:LEU:HD13	31:D5:59:GLU:N	2.18	0.58
1:CA:630:G:O2'	1:CA:631:G:H5'	2.02	0.58
51:BT:62:THR:CG2	51:BT:75:ILE:HG13	2.33	0.58
36:DA:120:U:O2'	36:DA:149:A:C8	2.50	0.58
49:DR:12:ARG:HH11	49:DR:12:ARG:HG3	1.68	0.58
36:BA:2115:G:N3	36:BA:2117:A:N7	2.51	0.58
25:CY:165:GLN:C	25:CY:166:LEU:HD12	2.24	0.58
15:CO:56:LEU:HD21	36:DA:715:G:C2	2.38	0.58
56:BY:97:ARG:HG3	56:BY:97:ARG:HH11	1.65	0.58
48:BQ:3:MET:HB2	48:BQ:4:PRO:HD2	1.84	0.58
45:DN:97:ARG:O	45:DN:101:HIS:HB2	2.03	0.58
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.02	0.58
1:AA:943:U:C2'	1:AA:944:G:H5'	2.33	0.58
36:BA:94:C:H5'	36:BA:94(A):G:OP2	2.03	0.58
36:DA:1914:C:H2'	36:DA:1915:U:O4'	2.03	0.58
57:BZ:105:VAL:HG13	57:BZ:105:VAL:O	2.03	0.58
40:DE:176:ILE:HG22	40:DE:178:GLU:HB3	1.85	0.58
10:AJ:20:ALA:C	10:AJ:22:LYS:H	2.05	0.58
42:DG:72:ARG:CB	42:DG:87:PRO:HD2	2.30	0.58
42:BG:64:THR:HG23	42:BG:66:GLN:N	2.18	0.58
50:DS:93:LYS:O	50:DS:95:HIS:N	2.36	0.58
57:DZ:29:TYR:HB3	57:DZ:34:ASN:HB3	1.82	0.58
34:D8:30:ARG:HE	34:D8:30:ARG:HA	1.68	0.58
56:BY:15:VAL:O	56:BY:22:GLY:N	2.36	0.58
32:D6:41:PRO:HD3	32:D6:47:THR:HG22	1.85	0.58
3:CC:94:LEU:O	3:CC:95:THR:HG23	2.02	0.58
25:CY:652:MET:HA	25:CY:652:MET:HE2	1.85	0.58
10:AJ:8:LEU:HD21	10:AJ:96:ILE:HG22	1.84	0.58
41:BF:188:ARG:HA	47:BP:7:ARG:HH21	1.67	0.58
36:DA:2795:G:N2	36:DA:2796:U:H5	1.97	0.58
25:AY:510:VAL:HA	25:AY:570:GLY:CA	2.31	0.58
14:CN:12:ARG:CB	14:CN:12:ARG:HH11	2.17	0.58
34:D8:58:ILE:O	34:D8:59:LYS:HG3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:36:CYS:SG	31:D5:49:CYS:SG	3.01	0.58
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.15	0.58
23:AW:6:G:H1	23:AW:67:C:H42	1.49	0.58
36:DA:2200:C:N4	36:DA:2223:G:H1	1.95	0.58
45:BN:125:GLY:HA3	45:BN:126:PRO:C	2.23	0.58
45:DN:125:GLY:HA3	45:DN:126:PRO:C	2.23	0.58
36:BA:2777:G:C5'	36:BA:2778:A:H5''	2.33	0.58
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	1.85	0.58
36:DA:406:G:O2'	36:DA:407:G:H8	1.83	0.58
36:DA:992:C:H2'	36:DA:993:G:H8	1.68	0.58
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.85	0.58
34:D8:5:LYS:HG2	36:DA:242:G:C8	2.38	0.58
36:BA:2183:C:O2'	36:BA:2184:G:H5'	2.03	0.58
54:BW:107:LEU:HD22	54:BW:107:LEU:N	2.18	0.58
28:B2:13:ALA:HA	28:B2:16:LEU:HD12	1.83	0.58
14:CN:37:PHE:HE2	14:CN:53:LEU:HD22	1.68	0.58
36:BA:1827:C:C2'	36:BA:1828:G:H5'	2.33	0.58
48:BQ:76:LYS:HB3	48:BQ:91:GLU:HG2	1.85	0.58
25:AY:314:PHE:CZ	25:AY:327:PHE:HB3	2.38	0.58
45:BN:97:ARG:O	45:BN:101:HIS:HB2	2.02	0.58
25:CY:113:GLY:HA3	25:CY:148:LEU:HD23	1.85	0.58
45:BN:45:ASN:N	45:BN:45:ASN:ND2	2.43	0.58
23:AW:68:C:H2'	23:AW:69:C:H6	1.67	0.58
34:D8:33:ASN:HA	34:D8:36:LYS:CD	2.34	0.58
31:B5:47:PRO:O	31:B5:57:VAL:HG22	2.03	0.58
32:D6:15:GLU:OE1	32:D6:44:ARG:NH2	2.37	0.58
36:DA:2476:A:N1	36:DA:2477:C:C5	2.71	0.58
49:BR:9:LYS:O	49:BR:10:LEU:HD23	2.03	0.58
47:BP:27:HIS:HD2	47:BP:28:GLY:N	2.02	0.58
13:AM:15:VAL:HA	13:AM:18:ALA:HB3	1.85	0.58
42:BG:73:ALA:HB3	42:BG:87:PRO:HG3	1.85	0.58
41:DF:20:LEU:HB3	41:DF:23:ASP:OD2	2.03	0.58
27:B1:29:GLY:C	27:B1:31:GLY:H	2.05	0.58
1:AA:1238:A:C5'	1:AA:1336:C:H41	2.16	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.85	0.58
36:DA:654(M):C:O2'	36:DA:654(N):G:H8	1.85	0.58
36:DA:518:G:H4'	54:DW:18:ARG:NH1	2.18	0.58
12:AL:47:LYS:HD2	12:AL:48:PRO:HD3	1.86	0.58
42:BG:13:GLU:O	42:BG:14:GLU:HG3	2.03	0.58
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.38	0.58
20:CT:42:GLN:NE2	20:CT:42:GLN:HA	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1269:A:H2'	1:CA:1270:C:H5'	1.85	0.58
36:BA:2229:C:O2'	36:BA:2230:G:H5'	2.03	0.58
36:DA:878:A:H2'	36:DA:879:G:O4'	2.02	0.58
49:DR:65:LEU:O	49:DR:65:LEU:HD12	2.02	0.58
23:CW:61:C:H2'	23:CW:62:C:C6	2.38	0.58
46:DO:107:ARG:HA	46:DO:112:MET:CE	2.33	0.58
22:CV:17:C:H1'	22:CV:18:G:OP2	2.03	0.58
36:BA:45:C:OP2	36:BA:215:G:H5''	2.03	0.58
28:D2:17:SER:HB2	28:D2:18:PRO:HD2	1.85	0.58
57:DZ:82:ARG:O	57:DZ:83:PRO:C	2.41	0.58
40:DE:100:GLU:O	40:DE:172:VAL:HG23	2.03	0.58
19:AS:67:VAL:CG2	30:B4:48:ARG:HH21	2.16	0.58
25:AY:132:ARG:HG2	25:AY:132:ARG:O	2.03	0.58
25:CY:491:VAL:CG1	25:CY:596:LYS:HE2	2.23	0.58
32:D6:27:LYS:HB3	32:D6:30:THR:HG22	1.85	0.58
56:DY:13:VAL:HG22	56:DY:14:LEU:N	2.16	0.58
52:DU:90:VAL:O	52:DU:92:ARG:N	2.36	0.58
53:DV:21:ARG:HB3	53:DV:91:TYR:CD2	2.39	0.58
36:DA:2346:A:H1'	36:DA:2383:G:C8	2.38	0.58
25:AY:621:ILE:CG1	25:AY:643:ILE:HD13	2.33	0.58
25:AY:230:LYS:NZ	25:AY:237:PRO:HA	2.16	0.58
47:BP:97:PRO:HD3	47:BP:126:VAL:O	2.04	0.58
36:DA:1242:A:C6	47:DP:8:PRO:HG2	2.38	0.58
39:DD:30:GLU:HG3	39:DD:63:ARG:CZ	2.34	0.58
36:DA:1375:C:H2'	36:DA:1376:C:C6	2.25	0.58
36:DA:1485:G:H2'	36:DA:1486:A:C8	2.38	0.58
47:DP:16:ARG:HD3	47:DP:16:ARG:C	2.23	0.58
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.03	0.58
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.03	0.58
25:AY:92:ILE:HG21	25:AY:437:THR:HG21	1.85	0.58
39:BD:267:SER:CA	39:BD:270:ILE:HD11	2.33	0.58
18:AR:44:LEU:O	18:AR:45:SER:C	2.41	0.58
3:CC:79:ARG:HB2	3:CC:79:ARG:NH1	2.16	0.58
2:AB:9:GLU:N	2:AB:9:GLU:OE1	2.36	0.58
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.15	0.58
5:CE:81:GLU:HG3	5:CE:90:VAL:HG13	1.84	0.58
57:DZ:145:GLU:O	57:DZ:147:GLY:N	2.28	0.58
41:DF:157:VAL:HG22	41:DF:194:MET:HA	1.84	0.58
48:BQ:34:LEU:HD12	48:BQ:130:LYS:O	2.03	0.58
36:DA:2853:C:H2'	36:DA:2854:G:H8	1.69	0.58
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:89:VAL:O	41:BF:91:GLY:N	2.33	0.58
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.33	0.58
36:BA:904:C:H4'	57:BZ:169:GLU:OE1	2.03	0.58
37:BB:85:G:O2'	37:BB:86:G:H5'	2.03	0.58
1:AA:1326:C:O2'	1:AA:1327:C:H5'	2.04	0.58
56:BY:95:LYS:CE	56:BY:101:LYS:H	2.15	0.58
47:DP:122:PRO:HG3	47:DP:141:ALA:HB3	1.86	0.58
36:DA:2415:G:H4'	47:DP:67:MET:N	2.18	0.58
25:CY:339:SER:HB2	25:CY:352:VAL:CG1	2.34	0.58
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.02	0.58
1:AA:1269:A:H2'	1:AA:1270:C:H5'	1.84	0.58
36:BA:2348:U:H2'	36:BA:2349:G:H5''	1.85	0.58
1:AA:1459:C:H2'	1:AA:1460:A:H8	1.69	0.58
1:CA:895:G:H2'	1:CA:896:C:C6	2.39	0.58
42:DG:172:LEU:O	42:DG:172:LEU:HD23	2.03	0.58
54:DW:69:LEU:HA	54:DW:108:GLY:O	2.03	0.58
16:AP:19:ILE:N	16:AP:37:GLY:O	2.35	0.58
14:CN:32:SER:O	14:CN:40:CYS:HA	2.04	0.58
25:CY:499:ARG:CB	25:CY:506:GLN:HB3	2.15	0.58
41:DF:170:LEU:HD12	41:DF:172:TRP:HE1	1.69	0.58
1:AA:1288:A:H2	1:AA:1352:C:O2	1.86	0.58
50:BS:98:VAL:C	50:BS:100:ALA:H	2.07	0.58
25:CY:223:PHE:HB3	25:CY:248:LYS:CD	2.24	0.58
36:DA:1019:U:HO2'	36:DA:1021:A:H2	1.52	0.58
47:DP:96:THR:O	47:DP:99:LEU:HB3	2.04	0.58
25:CY:603:GLU:O	25:CY:676:TYR:HA	2.04	0.58
25:CY:679:VAL:HB	25:CY:683:VAL:HB	1.85	0.58
25:AY:230:LYS:HB2	25:AY:230:LYS:NZ	2.18	0.58
41:BF:185:ASP:OD1	41:BF:188:ARG:HD3	2.03	0.58
28:D2:25:VAL:HG22	28:D2:60:LEU:HD22	1.84	0.58
20:CT:50:GLU:HB2	20:CT:100:ILE:HB	1.84	0.58
41:BF:174:VAL:HG21	41:BF:189:THR:CG2	2.32	0.58
47:BP:23:PRO:CB	47:BP:33:ARG:HG3	2.31	0.58
14:AN:12:ARG:CB	14:AN:12:ARG:HH11	2.16	0.58
36:BA:2590:A:OP2	39:BD:238:GLY:HA2	2.04	0.58
19:CS:67:VAL:HG11	30:D4:50:VAL:HG22	1.85	0.58
36:DA:2386:C:H2'	36:DA:2387:U:H6	1.69	0.58
36:BA:709:U:H2'	36:BA:710:G:H8	1.67	0.58
36:DA:1779:U:C5	36:DA:1784:A:N7	2.65	0.58
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.86	0.58
36:BA:560:C:H4'	52:BU:52:ARG:CZ	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:61:LEU:CD1	34:D8:62:LEU:H	2.16	0.58
38:BC:115:VAL:HA	38:BC:145:THR:CG2	2.34	0.58
36:DA:2728:U:O2'	36:DA:2729:G:H5'	2.03	0.58
36:BA:2682:U:O4	36:BA:2728:U:H1'	2.02	0.58
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.86	0.58
36:BA:2406:U:N3	47:BP:72:PRO:HB2	2.17	0.58
36:DA:2115:G:N3	36:DA:2117:A:N7	2.52	0.58
36:BA:1809:A:H2'	36:BA:1810:A:C8	2.38	0.58
56:DY:81:LYS:HD3	56:DY:97:ARG:O	2.03	0.58
38:BC:186:LEU:O	38:BC:190:ILE:HG12	2.03	0.58
36:BA:2022:U:H2'	36:BA:2616:C:O2'	2.04	0.58
41:DF:103:LYS:HA	41:DF:106:ARG:HG3	1.85	0.58
36:BA:680:G:H2'	36:BA:681:G:C8	2.38	0.58
36:DA:2792:G:N3	36:DA:2792:G:H2'	2.19	0.58
36:BA:2792:G:N3	36:BA:2792:G:H2'	2.19	0.58
1:AA:812:C:HO2'	1:AA:813:U:P	2.27	0.58
22:CV:36:A:H2	24:CX:16:U:H3	1.51	0.58
42:DG:121:ASN:CG	42:DG:124:SER:HB2	2.23	0.58
36:BA:1882:C:H2'	36:BA:1883:G:O4'	2.04	0.58
25:AY:171:GLU:CG	25:AY:172:ASP:H	2.16	0.58
36:BA:2656:U:H2'	36:BA:2657:A:H5''	1.84	0.58
36:BA:211:A:H2'	36:BA:212:G:C5'	2.24	0.58
30:B4:1:MET:HG3	42:BG:66:GLN:HG3	1.84	0.58
32:D6:7:ILE:HD12	32:D6:7:ILE:N	2.18	0.58
28:D2:16:LEU:HB3	28:D2:20:GLU:HG2	1.86	0.58
45:DN:3:THR:HG22	45:DN:4:TYR:N	2.18	0.58
51:BT:78:LEU:HD13	51:BT:79:HIS:CE1	2.38	0.58
28:D2:69:ARG:HG3	28:D2:70:GLN:H	1.67	0.58
36:DA:1657:C:H2'	36:DA:1658:C:C6	2.39	0.58
43:BH:46:GLU:OE1	43:BH:51:ARG:HB2	2.04	0.58
4:AD:36:ARG:HB3	4:AD:36:ARG:NH1	2.14	0.58
28:D2:37:PHE:CE2	55:DX:47:PHE:HZ	2.22	0.58
26:D0:40:GLN:HE22	26:D0:43:THR:HA	1.69	0.58
36:BA:1053:C:H3'	36:BA:1054:A:H5''	1.85	0.58
36:BA:2853:C:H2'	36:BA:2854:G:C8	2.38	0.58
19:CS:41:VAL:O	19:CS:43:GLU:N	2.36	0.58
54:BW:29:LEU:HD11	54:BW:51:LEU:HD11	1.84	0.58
36:BA:2497:A:OP2	36:BA:2497:A:C8	2.54	0.58
54:BW:47:VAL:HA	54:BW:50:VAL:HG12	1.84	0.58
36:BA:1789:A:OP1	39:BD:222:ARG:HG3	2.03	0.58
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.32	0.58
1:AA:473:G:H2'	1:AA:474:G:C8	2.38	0.58
1:AA:476:G:H2'	1:AA:477:A:H8	1.69	0.58
36:DA:1223:G:C3'	36:DA:1224:C:H5''	2.34	0.58
36:BA:1666:G:H1'	46:BO:3:GLN:HE21	1.68	0.58
26:D0:49:LYS:H	26:D0:80:HIS:HD1	1.50	0.58
1:AA:833:U:H2'	1:AA:834:C:H6	1.69	0.58
40:BE:108:SER:HB3	40:BE:165:VAL:HG21	1.85	0.58
25:AY:380:LEU:O	25:AY:381:LYS:HE2	2.02	0.58
34:B8:14:VAL:HG21	34:B8:22:VAL:HG13	1.85	0.58
15:CO:40:SER:O	15:CO:44:LYS:HG3	2.04	0.58
42:BG:49:ASP:O	42:BG:50:ALA:HB3	2.03	0.58
9:AI:10:ARG:HG3	9:AI:75:ASP:HB3	1.85	0.58
56:BY:55:TYR:HD1	56:BY:55:TYR:N	2.02	0.58
36:DA:1105:U:H2'	36:DA:1106:G:O4'	2.03	0.58
25:CY:658:ASP:O	25:CY:662:LYS:HG2	2.02	0.58
7:AG:35:LYS:HE3	7:AG:38:LEU:HD23	1.86	0.58
44:BJ:52:UNK:O	44:BJ:53:UNK:CB	2.51	0.58
36:BA:200:U:H2'	36:BA:201:C:H5'	1.86	0.58
36:DA:566:U:O2'	36:DA:567:A:H5'	2.03	0.58
36:DA:2422:A:H4'	36:DA:2423:U:OP1	2.02	0.58
36:DA:680:G:H2'	36:DA:681:G:C8	2.39	0.58
25:CY:499:ARG:O	25:CY:505:GLY:O	2.21	0.58
10:AJ:78:ASN:C	10:AJ:79:ARG:HH11	2.06	0.58
41:BF:170:LEU:HD12	41:BF:172:TRP:HE1	1.68	0.58
25:CY:486:THR:HG23	25:CY:600:VAL:HG13	1.84	0.58
36:BA:2583:G:H2'	36:BA:2584:U:O2	2.03	0.58
36:BA:272(J):C:H3'	36:BA:274:G:C5'	2.30	0.58
56:DY:13:VAL:HG23	56:DY:73:ARG:C	2.24	0.58
36:BA:83:G:N2	36:BA:102:G:H2'	2.19	0.58
25:CY:247:ARG:HH11	25:CY:247:ARG:HG3	1.68	0.58
32:D6:15:GLU:CD	32:D6:44:ARG:HH22	2.07	0.58
32:B6:15:GLU:OE1	32:B6:44:ARG:NH2	2.36	0.58
36:BA:2309:A:C2'	36:BA:2310:A:H5''	2.33	0.58
51:BT:66:VAL:HA	51:BT:71:GLY:HA2	1.86	0.58
47:BP:58:THR:C	47:BP:61:ARG:HE	2.06	0.58
13:CM:15:VAL:HA	13:CM:18:ALA:HB3	1.86	0.58
36:BA:1257:C:H2'	36:BA:1258:C:H6	1.68	0.58
2:CB:21:ARG:CD	2:CB:39:ILE:HG12	2.31	0.58
47:BP:16:ARG:HD3	47:BP:16:ARG:C	2.23	0.58
47:BP:12:ALA:HB1	47:BP:16:ARG:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:16:ARG:HH11	47:BP:16:ARG:C	2.06	0.58
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.22	0.58
36:DA:520:G:H2'	36:DA:521:G:C8	2.38	0.58
18:CR:58:LEU:N	18:CR:58:LEU:HD12	2.19	0.58
25:CY:25:LYS:HE2	25:CY:86:GLY:H	1.69	0.58
18:AR:58:LEU:HB3	18:AR:62:GLU:CB	2.30	0.58
36:BA:1053:C:H2'	36:BA:1054:A:C5'	2.32	0.58
36:BA:1798:U:OP2	39:BD:274:ARG:NH2	2.37	0.58
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.38	0.58
1:CA:934:C:H5	1:CA:1344:C:H2'	1.68	0.58
19:AS:9:VAL:O	19:AS:9:VAL:CG1	2.51	0.58
27:B1:67:ILE:N	27:B1:68:PRO:HD2	2.18	0.58
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.18	0.58
36:BA:2415:G:H4'	47:BP:67:MET:N	2.19	0.58
39:DD:172:TYR:HD1	39:DD:186:HIS:HA	1.68	0.58
2:AB:238:LEU:O	2:AB:240:GLN:N	2.37	0.58
25:AY:315:LYS:HZ2	25:AY:317:MET:HG2	1.66	0.58
36:DA:822:U:H2'	36:DA:823:G:C8	2.39	0.58
27:D1:6:GLU:C	27:D1:7:ILE:HD12	2.24	0.58
27:D1:7:ILE:HG22	27:D1:66:HIS:HD2	1.68	0.58
10:AJ:22:LYS:HE3	10:AJ:23:ILE:N	2.18	0.58
39:DD:201:HIS:O	39:DD:204:ILE:HG12	2.04	0.58
36:BA:2606:C:O2'	36:BA:2607:G:H5'	2.03	0.58
25:CY:114:VAL:O	25:CY:114:VAL:HG13	2.04	0.58
57:BZ:18:LEU:O	57:BZ:21:ALA:HB3	2.04	0.58
1:AA:1170:A:H2'	1:AA:1171:G:O4'	2.03	0.58
37:DB:114:C:H2'	37:DB:115:G:C8	2.38	0.58
24:AX:18:C:H5''	24:AX:19:A:OP1	2.02	0.58
30:D4:27:THR:O	30:D4:28:LYS:HB3	2.03	0.58
25:AY:14:ASN:HB2	25:AY:102:ASP:OD1	2.02	0.58
25:CY:488:THR:OG1	25:CY:598:ASP:HB3	2.02	0.58
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.14	0.58
30:B4:27:THR:O	30:B4:28:LYS:HB3	2.04	0.58
37:DB:7:G:C3'	37:DB:8:U:H5''	2.33	0.58
37:DB:7:G:H5'	50:DS:29:PHE:CD2	2.39	0.58
32:D6:22:ALA:C	32:D6:23:THR:HG23	2.24	0.58
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.85	0.58
28:D2:14:ARG:HG3	28:D2:14:ARG:HH11	1.68	0.58
39:BD:35:LYS:O	39:BD:36:PRO:C	2.42	0.58
25:AY:185:ALA:HB3	25:AY:199:ILE:O	2.04	0.58
47:BP:146:VAL:HG22	47:BP:147:LEU:N	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:53:PRO:HA	34:B8:56:GLU:HB2	1.86	0.58
2:CB:17:PHE:O	2:CB:204:ASN:HB2	2.03	0.58
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.18	0.58
36:DA:1537:G:H2'	36:DA:1538:G:H8	1.69	0.58
36:DA:2712:U:C2'	36:DA:2712(A):A:O5'	2.52	0.58
45:DN:17:ASP:OD2	45:DN:56:ASN:HB3	2.03	0.58
40:DE:7:VAL:CG1	40:DE:27:LEU:HB3	2.32	0.58
25:CY:32:ILE:HG22	25:CY:33:LEU:HD12	1.86	0.58
1:AA:1442(A):G:N2	51:BT:119:LYS:HA	2.19	0.58
2:AB:213:LEU:HD23	2:AB:213:LEU:O	2.04	0.58
36:BA:2386:C:H2'	36:BA:2387:U:H6	1.69	0.58
38:DC:185:LYS:CA	38:DC:185:LYS:HE3	2.34	0.58
36:DA:654(P):C:C2'	36:DA:654(Q):C:H5'	2.34	0.58
38:BC:73:VAL:CG1	38:BC:158:LYS:HA	2.31	0.58
1:AA:376:G:H2'	1:AA:377:G:C8	2.37	0.58
49:DR:21:TYR:HB3	49:DR:47:PHE:CE2	2.38	0.58
2:AB:207:ALA:HB3	2:AB:210:SER:CB	2.34	0.58
36:BA:787:U:OP1	36:BA:1780:A:N6	2.37	0.58
37:DB:77:U:OP1	57:DZ:19:ARG:NH2	2.37	0.58
1:AA:299:G:H2'	1:AA:300:A:C8	2.39	0.58
1:AA:269:C:H2'	1:AA:270:A:C8	2.39	0.58
36:BA:1174:A:H5'	36:BA:1175:U:H5''	1.86	0.58
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.85	0.58
2:CB:62:ALA:O	2:CB:64:ARG:N	2.31	0.58
39:BD:210:GLY:O	39:BD:211:ARG:HB3	2.02	0.58
1:AA:943:U:H2'	1:AA:944:G:H5'	1.84	0.58
53:BV:66:ARG:CZ	53:BV:88:ARG:HH21	2.16	0.58
46:BO:107:ARG:HA	46:BO:112:MET:CE	2.34	0.58
2:AB:148:TYR:O	2:AB:149:LEU:HD23	2.02	0.58
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.84	0.58
47:BP:102:ARG:HB3	47:BP:102:ARG:NH1	2.19	0.58
1:CA:575:G:OP1	1:CA:575:G:H4'	2.04	0.58
1:AA:15:G:H8	1:AA:1396:A:HO2'	1.51	0.58
39:BD:76:PRO:HG2	39:BD:98:VAL:HG21	1.86	0.58
24:AX:11:A:C4'	24:AX:12:A:O5'	2.41	0.58
40:DE:203:LYS:HG3	40:DE:204:ALA:N	2.19	0.58
45:BN:46:VAL:O	45:BN:47:ALA:CB	2.52	0.58
37:DB:49:C:H2'	37:DB:50:G:C8	2.39	0.58
32:D6:8:LYS:O	32:D6:9:LEU:HD13	2.03	0.58
26:D0:16:SER:OG	36:DA:2261:C:H3'	2.03	0.58
36:DA:648:G:H2'	36:DA:649:G:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:459:LEU:O	25:AY:463:VAL:HG23	2.03	0.58
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.19	0.58
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.19	0.58
36:DA:2811:G:H2'	36:DA:2812:G:H8	1.68	0.58
47:BP:27:HIS:HD2	47:BP:28:GLY:H	1.50	0.58
57:BZ:24:LEU:CD2	57:BZ:86:VAL:HG23	2.29	0.58
5:CE:80:ILE:HG22	8:CH:104:ARG:HH22	1.64	0.58
40:DE:47:VAL:HG12	40:DE:48:GLN:N	2.14	0.58
40:BE:36:ARG:HG2	40:BE:36:ARG:NH1	2.14	0.58
57:DZ:35:ARG:HG3	57:DZ:35:ARG:HH11	1.69	0.58
31:B5:19:ARG:HG3	36:BA:2046:G:H5''	1.86	0.58
54:DW:20:VAL:HG23	54:DW:47:VAL:HG21	1.85	0.58
3:AC:14:ILE:HG13	3:AC:15:THR:H	1.68	0.58
47:DP:75:ILE:HD12	47:DP:75:ILE:N	2.18	0.58
36:DA:1773:A:H2'	36:DA:1774:C:O4'	2.04	0.58
29:B3:35:ARG:CD	29:B3:37:LEU:HD21	2.34	0.58
4:AD:127:THR:HA	4:AD:132:ARG:HA	1.86	0.58
12:AL:91:LYS:HZ2	12:AL:91:LYS:HA	1.69	0.58
56:DY:95:LYS:CE	56:DY:101:LYS:H	2.17	0.58
46:BO:14:THR:HG21	46:BO:86:ILE:HD13	1.86	0.58
48:BQ:43:THR:HB	48:BQ:45:GLN:HE21	1.68	0.58
36:BA:299:A:H5'	36:BA:300:A:OP2	2.03	0.58
10:CJ:22:LYS:HE3	10:CJ:23:ILE:N	2.19	0.58
43:BH:40:GLU:HG3	43:BH:64:LEU:HD13	1.86	0.58
37:DB:56:G:H4'	42:DG:27:ASN:HD21	1.69	0.58
22:AV:31:A:O2'	22:AV:32:U:H5'	2.03	0.58
36:BA:1105:U:H2'	36:BA:1106:G:O4'	2.03	0.58
1:CA:119:A:O2'	1:CA:120:A:OP2	2.21	0.58
36:BA:2081:C:O2'	36:BA:2082:A:H5'	2.03	0.58
36:DA:200:U:H2'	36:DA:201:C:H5'	1.86	0.58
36:DA:45:C:OP2	36:DA:215:G:H5''	2.03	0.58
30:D4:9:LEU:HA	30:D4:26:SER:O	2.04	0.58
1:CA:1358:U:P	14:CN:35:ARG:HG3	2.44	0.58
25:CY:542:VAL:HG23	25:CY:582:PHE:O	2.03	0.58
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.33	0.58
52:BU:92:ARG:NH1	53:BV:11:GLN:O	2.37	0.58
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.19	0.58
42:BG:61:ALA:HA	42:BG:64:THR:CG2	2.28	0.58
36:DA:814:C:H2'	36:DA:815:C:C6	2.39	0.58
36:DA:1190:G:H5'	47:DP:35:HIS:H	1.68	0.58
49:BR:75:LEU:O	49:BR:75:LEU:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:363(A):A:H2'	36:BA:363(B):G:H8	1.69	0.58
56:BY:37:VAL:HG23	56:BY:38:ILE:N	2.19	0.58
45:DN:3:THR:CG2	45:DN:5:VAL:HG23	2.34	0.58
36:BA:1142(A):A:O2'	36:BA:1143:A:H2'	2.04	0.58
45:BN:91:LEU:HD23	45:BN:98:VAL:HG21	1.84	0.58
25:AY:181:LEU:HB2	25:AY:216:LEU:HD11	1.85	0.58
27:B1:90:ILE:HG22	27:B1:94:LEU:HD11	1.86	0.58
51:DT:102:ILE:HB	51:DT:110:ILE:CD1	2.34	0.58
36:BA:2014:A:H4'	54:BW:92:ARG:HH22	1.69	0.58
36:BA:1902:C:H4'	39:BD:244:ARG:HB2	1.85	0.58
14:CN:12:ARG:CB	14:CN:12:ARG:NH1	2.67	0.58
36:DA:1516:C:O2'	36:DA:1517:G:H5''	2.04	0.58
2:CB:15:VAL:H	2:CB:16:HIS:CE1	2.22	0.58
36:BA:520:G:H2'	36:BA:521:G:H8	1.68	0.58
25:CY:12:LEU:HD11	25:CY:78:ARG:HD2	1.86	0.58
51:DT:30:VAL:CG2	51:DT:84:GLN:H	2.16	0.58
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.86	0.58
15:CO:83:GLU:C	15:CO:85:LEU:N	2.57	0.58
39:BD:263:ARG:CB	39:BD:263:ARG:HH11	2.16	0.58
43:DH:41:MET:HG3	43:DH:43:VAL:HG13	1.85	0.58
25:AY:135:PHE:CE1	25:AY:272:LEU:HD22	2.39	0.58
1:CA:697:U:C2'	1:CA:698:G:H5'	2.34	0.58
46:BO:97:ARG:O	46:BO:98:VAL:HG13	2.04	0.58
36:DA:1523:U:H2'	36:DA:1524:G:H8	1.67	0.58
1:CA:60:A:H5''	1:CA:331:G:N2	2.19	0.58
36:BA:2408:U:H2'	36:BA:2409:G:C8	2.38	0.58
14:AN:37:PHE:CE2	14:AN:53:LEU:HD22	2.39	0.58
14:AN:37:PHE:HE2	14:AN:53:LEU:HD22	1.68	0.58
36:BA:558:G:H5'	45:BN:112:LEU:HD22	1.85	0.58
1:CA:36:C:H4'	12:CL:122:THR:O	2.04	0.58
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.19	0.58
39:BD:31:LYS:HZ2	39:BD:33:LEU:HB2	1.68	0.58
36:BA:1624:G:O2'	36:BA:1625:C:H5'	2.03	0.58
3:CC:148:GLY:HA3	3:CC:172:ARG:O	2.03	0.58
36:DA:20:C:H2'	36:DA:21:A:H8	1.67	0.58
46:DO:120:GLU:CD	46:DO:122:LEU:HD21	2.23	0.58
36:BA:2061:G:H5'	36:BA:2503:A:N1	2.18	0.58
40:BE:8:LYS:O	40:BE:193:GLY:N	2.37	0.58
25:CY:191:ASP:O	25:CY:265:LYS:O	2.21	0.57
25:CY:141:LYS:HE3	60:CY:702:GDP:N2	2.19	0.57
36:DA:2308:G:N2	42:DG:79:ASN:HB2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:89:ARG:HG3	50:BS:92:TYR:HA	1.86	0.57
41:DF:10:PRO:HD2	41:DF:13:SER:O	2.04	0.57
32:B6:9:LEU:HD12	32:B6:28:ARG:CG	2.34	0.57
2:AB:223:ILE:HG12	2:AB:226:ARG:HH22	1.66	0.57
56:DY:15:VAL:O	56:DY:22:GLY:N	2.37	0.57
56:DY:8:LYS:H	56:DY:8:LYS:HD2	1.67	0.57
45:DN:10:GLU:CD	45:DN:11:PRO:HD2	2.24	0.57
36:DA:143:G:H2'	36:DA:143(A):C:C6	2.39	0.57
39:BD:34:VAL:HG23	39:BD:35:LYS:H	1.68	0.57
36:DA:650:C:C3'	36:DA:651:G:H5''	2.34	0.57
36:DA:2723:C:H5''	49:DR:2:ARG:NH1	2.07	0.57
52:DU:34:LYS:HA	52:DU:34:LYS:CE	2.27	0.57
7:CG:15:ASP:OD1	7:CG:16:LEU:N	2.36	0.57
47:BP:101:VAL:HG12	47:BP:106:LEU:HB3	1.85	0.57
25:AY:411:VAL:CG1	25:AY:412:ALA:N	2.66	0.57
1:CA:1442(B):A:N7	51:DT:118:ARG:HG2	2.19	0.57
20:AT:50:GLU:HB2	20:AT:100:ILE:HB	1.86	0.57
36:BA:2476:A:N1	36:BA:2477:C:C5	2.71	0.57
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.86	0.57
36:DA:1518:U:H2'	36:DA:1519:G:O4'	2.03	0.57
51:DT:35:LYS:HZ3	51:DT:41:ARG:CD	2.16	0.57
36:DA:2199:A:H3'	36:DA:2200:C:H6	1.69	0.57
36:DA:1540:U:C3'	36:DA:1541:G:H3'	2.33	0.57
36:BA:1537:G:H2'	36:BA:1538:G:H8	1.69	0.57
40:DE:36:ARG:NH2	40:DE:88:GLY:N	2.52	0.57
3:CC:180:ALA:O	3:CC:181:ASN:HB3	2.03	0.57
9:AI:53:VAL:CG2	9:AI:55:ALA:HB3	2.33	0.57
19:CS:9:VAL:CG1	19:CS:9:VAL:O	2.52	0.57
12:AL:89:ARG:HD3	12:AL:91:LYS:HZ3	1.68	0.57
45:DN:109:LYS:HE3	45:DN:109:LYS:H	1.69	0.57
1:CA:473:G:H2'	1:CA:474:G:C8	2.39	0.57
1:CA:269:C:H2'	1:CA:270:A:C8	2.39	0.57
36:BA:852:G:H2'	36:BA:853:G:C8	2.39	0.57
37:DB:20:C:H2'	37:DB:21:G:C5'	2.34	0.57
39:BD:242:ARG:HG3	39:BD:242:ARG:HH11	1.69	0.57
36:DA:2870:C:H5''	49:DR:65:LEU:HD21	1.86	0.57
1:AA:559:A:H4'	1:AA:560:U:H5'	1.85	0.57
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.86	0.57
36:BA:533:G:H5''	52:BU:24:TYR:CE1	2.39	0.57
2:AB:101:MET:O	2:AB:102:LEU:HD12	2.04	0.57
36:DA:458:G:N2	36:DA:469:G:H2'	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:56:C:C6	23:CW:56:C:OP1	2.57	0.57
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.04	0.57
24:CX:21:A:H2'	24:CX:22:A:H8	1.69	0.57
36:BA:1525:G:H2'	36:BA:1526:G:C8	2.39	0.57
38:BC:118:PRO:HA	38:BC:121:MET:HG2	1.86	0.57
25:CY:104:ALA:O	25:CY:132:ARG:HB2	2.04	0.57
43:BH:175:LYS:O	43:BH:176:ALA:CB	2.52	0.57
41:BF:170:LEU:HD12	41:BF:172:TRP:NE1	2.20	0.57
25:CY:491:VAL:HG11	25:CY:596:LYS:HG2	1.86	0.57
52:BU:95:LEU:HD13	53:BV:4:ILE:CG2	2.33	0.57
37:BB:7:G:C3'	37:BB:8:U:H5''	2.34	0.57
36:DA:2438:U:O3'	36:DA:2439:A:H4'	2.02	0.57
36:BA:143:G:H2'	36:BA:143(A):C:C6	2.39	0.57
42:BG:97:ASP:H	42:BG:100:TRP:HD1	1.50	0.57
31:B5:40:LYS:HZ3	31:B5:46:CYS:H	1.50	0.57
49:BR:38:VAL:HB	49:BR:39:PRO:CD	2.28	0.57
36:DA:363(A):A:H2'	36:DA:363(B):G:H8	1.70	0.57
45:DN:66:LYS:O	45:DN:67:LEU:HD23	2.04	0.57
51:DT:28:VAL:HG11	51:DT:46:GLU:OE1	2.03	0.57
22:CV:50:U:O2'	22:CV:51:U:H5'	2.04	0.57
53:BV:28:GLU:OE1	53:BV:31:ALA:HB2	2.04	0.57
47:DP:12:ALA:HB1	47:DP:16:ARG:HB3	1.85	0.57
36:DA:661:C:O3'	47:DP:18:ARG:HD2	2.04	0.57
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.86	0.57
36:DA:807:U:OP2	47:DP:39:LYS:HG3	2.05	0.57
25:CY:72:CYS:SG	25:CY:79:ILE:HB	2.44	0.57
26:D0:43:THR:N	36:DA:2331:G:H4'	2.17	0.57
3:AC:79:ARG:O	3:AC:79:ARG:HG3	2.03	0.57
4:CD:30:LYS:HB3	4:CD:35:ARG:HD2	1.85	0.57
4:CD:8:VAL:C	4:CD:10:ARG:N	2.57	0.57
36:DA:1827:C:C2'	36:DA:1828:G:H5'	2.33	0.57
1:CA:624:C:O2'	1:CA:625:G:H5'	2.03	0.57
54:DW:14:PRO:O	54:DW:18:ARG:HG3	2.03	0.57
4:CD:127:THR:HA	4:CD:132:ARG:HA	1.86	0.57
36:DA:145:G:H2'	36:DA:146:G:H8	1.69	0.57
7:AG:37:ASN:HD21	9:AI:40:LEU:HA	1.67	0.57
54:BW:68:ARG:HB3	54:BW:110:LYS:H	1.69	0.57
25:CY:65:ILE:H	25:CY:65:ILE:HD13	1.69	0.57
1:AA:1255:G:H2'	1:AA:1279:A:N6	2.18	0.57
23:CW:74:C:C2'	23:CW:75:C:H5'	2.34	0.57
34:B8:43:GLN:C	34:B8:44:LYS:HD2	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:688:U:C4'	36:BA:1780:A:H2	2.16	0.57
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.85	0.57
50:BS:44:LYS:O	50:BS:46:VAL:HG23	2.05	0.57
36:DA:803:U:C2'	36:DA:804:A:H5'	2.34	0.57
36:BA:1813:G:H1'	39:BD:50:THR:OG1	2.04	0.57
6:CF:28:ARG:O	6:CF:32:ASN:HB2	2.04	0.57
39:BD:77:ALA:HB2	39:BD:97:TYR:CD2	2.39	0.57
1:AA:895:G:H2'	1:AA:896:C:C6	2.39	0.57
44:DJ:37:UNK:C	44:DJ:39:UNK:N	2.64	0.57
22:AV:9:A:C2	22:AV:45:U:C4	2.92	0.57
1:AA:449:C:O2	16:AP:42:ARG:HD2	2.04	0.57
36:BA:426:C:O2'	36:BA:427:U:H5'	2.05	0.57
54:BW:69:LEU:HA	54:BW:108:GLY:O	2.03	0.57
36:DA:953:A:O2'	36:DA:954:G:H5'	2.04	0.57
42:DG:114:ILE:O	42:DG:114:ILE:HG22	2.03	0.57
25:AY:312:LEU:HD23	25:AY:387:ASP:O	2.03	0.57
25:AY:100:VAL:HG23	25:AY:329:ARG:CB	2.33	0.57
50:DS:88:ASP:CG	50:DS:89:ARG:N	2.56	0.57
45:DN:41:ASP:C	52:DU:64:ARG:HH12	2.06	0.57
32:B6:38:LYS:HB3	36:BA:2344:U:H5''	1.86	0.57
25:AY:415:PRO:HA	25:AY:474:ALA:HB1	1.86	0.57
41:DF:185:ASP:CA	41:DF:188:ARG:HG2	2.34	0.57
39:DD:35:LYS:CG	39:DD:63:ARG:HG3	2.35	0.57
46:BO:114:ILE:H	46:BO:114:ILE:CD1	2.14	0.57
14:CN:12:ARG:HB3	14:CN:12:ARG:HH11	1.68	0.57
26:D0:24:LYS:O	26:D0:25:ARG:HD3	2.03	0.57
2:CB:32:ILE:HD12	2:CB:40:HIS:HB3	1.87	0.57
36:BA:662:G:P	47:BP:18:ARG:HD2	2.44	0.57
36:DA:2712:U:H1'	36:DA:2712(A):A:C8	2.39	0.57
36:BA:1540:U:C3'	36:BA:1541:G:H3'	2.32	0.57
25:CY:25:LYS:HE2	25:CY:86:GLY:CA	2.34	0.57
51:DT:10:VAL:O	51:DT:12:SER:N	2.37	0.57
36:BA:2008:C:H2'	36:BA:2009:G:C8	2.39	0.57
36:DA:545:C:H6	36:DA:545:C:OP1	1.87	0.57
41:BF:157:VAL:HG22	41:BF:194:MET:HG2	1.86	0.57
9:AI:82:ALA:HB1	9:AI:96:LEU:HD11	1.85	0.57
34:B8:61:LEU:CD1	34:B8:62:LEU:H	2.16	0.57
36:DA:654(P):C:H2'	36:DA:654(Q):C:O4'	2.04	0.57
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.69	0.57
36:BA:2465:C:O2'	36:BA:2466:C:H5'	2.04	0.57
4:AD:158:ILE:HG23	4:AD:162:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:311:ALA:CB	25:AY:330:VAL:HA	2.34	0.57
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.86	0.57
50:DS:17:ARG:O	50:DS:20:ARG:HG2	2.04	0.57
37:BB:104:U:O3'	57:BZ:72:ARG:NH1	2.37	0.57
36:DA:1163:G:O2'	36:DA:1164:G:H5'	2.02	0.57
29:B3:45:GLY:HA3	36:BA:851:U:O2'	2.05	0.57
25:AY:301:ILE:CG2	25:AY:332:SER:HB2	2.34	0.57
36:DA:558:G:H5'	45:DN:112:LEU:HD22	1.86	0.57
43:BH:104:GLU:HA	43:BH:113:VAL:O	2.04	0.57
34:D8:14:VAL:CG2	34:D8:22:VAL:HG13	2.33	0.57
8:CH:118:VAL:O	8:CH:119:LEU:HD23	2.04	0.57
1:CA:449:C:O2	16:CP:42:ARG:HD2	2.04	0.57
32:D6:33:LYS:HG2	32:D6:34:LEU:H	1.69	0.57
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.69	0.57
1:AA:731:G:OP1	1:AA:766:A:H1'	2.04	0.57
38:DC:14:LYS:HD3	38:DC:14:LYS:H	1.70	0.57
36:BA:2837:G:H2'	36:BA:2838:G:H8	1.68	0.57
36:BA:1509(A):A:H2'	36:BA:1509(B):A:H8	1.70	0.57
52:BU:84:LYS:C	52:BU:86:ALA:H	2.06	0.57
36:DA:2332:U:H5'	36:DA:2336:A:N6	2.19	0.57
36:DA:2408:U:H2'	36:DA:2409:G:C8	2.39	0.57
42:DG:73:ALA:H	42:DG:87:PRO:HG2	1.68	0.57
25:CY:85:PRO:HA	25:CY:94:VAL:HG22	1.85	0.57
41:DF:165:ARG:HA	41:DF:168:ARG:HD3	1.85	0.57
36:DA:1047:G:HO2'	36:DA:1110:G:N2	2.02	0.57
53:BV:21:ARG:HB3	53:BV:91:TYR:CD2	2.39	0.57
57:BZ:7:ALA:HA	57:BZ:39:VAL:HG12	1.85	0.57
40:BE:116:VAL:O	40:BE:117:MET:CB	2.48	0.57
23:CW:67:C:H2'	23:CW:68:C:H5'	1.86	0.57
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.23	0.57
31:B5:3:LYS:HD2	31:B5:5:PRO:HD2	1.86	0.57
36:BA:1204:A:N6	36:BA:1240:U:H2'	2.20	0.57
43:DH:156:ALA:O	43:DH:158:HIS:N	2.37	0.57
26:B0:25:ARG:HD2	26:B0:29:GLN:HE22	1.67	0.57
56:BY:17:SER:OG	56:BY:18:GLY:N	2.37	0.57
47:BP:41:ARG:CB	47:BP:41:ARG:HH11	2.17	0.57
1:CA:183:G:H2'	1:CA:184:G:C8	2.39	0.57
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.39	0.57
4:AD:8:VAL:C	4:AD:10:ARG:N	2.57	0.57
36:BA:1285:G:C2'	36:BA:1286:A:H5'	2.35	0.57
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:214:G:H1'	36:DA:216:A:HO2'	1.68	0.57
34:D8:43:GLN:C	34:D8:44:LYS:HD2	2.24	0.57
48:BQ:17:LEU:HD23	48:BQ:17:LEU:N	2.20	0.57
4:CD:158:ILE:HG23	4:CD:162:LEU:HD12	1.85	0.57
25:AY:628:ARG:NH1	25:AY:680:PRO:HG2	2.18	0.57
36:DA:548:A:C2'	36:DA:549:G:H5'	2.34	0.57
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.69	0.57
45:BN:74:ARG:NH2	45:BN:83:LYS:HD3	2.19	0.57
2:CB:238:LEU:O	2:CB:240:GLN:N	2.37	0.57
4:AD:70:ILE:HD11	4:AD:74:GLN:HB3	1.86	0.57
30:B4:56:VAL:O	30:B4:57:GLU:HB2	2.04	0.57
1:CA:332:G:H2'	1:CA:333:G:H8	1.70	0.57
36:BA:158:U:H2'	36:BA:171:G:O4'	2.05	0.57
36:BA:810:U:OP1	36:BA:1253:A:N7	2.38	0.57
53:DV:66:ARG:CZ	53:DV:88:ARG:HH21	2.18	0.57
38:DC:92:ALA:HB2	38:DC:154:ILE:HD13	1.87	0.57
40:BE:101:ARG:NE	40:BE:171:GLU:HB2	2.19	0.57
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.04	0.57
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.69	0.57
17:CQ:80:GLY:O	17:CQ:81:ARG:HD2	2.05	0.57
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.19	0.57
5:CE:36:ASP:OD1	5:CE:38:GLN:HB2	2.03	0.57
36:DA:759:G:H2'	36:DA:760:G:H8	1.68	0.57
42:DG:111:LEU:HB2	42:DG:112:PRO:HD3	1.85	0.57
25:CY:355:LEU:HG	25:CY:369:LEU:HD13	1.87	0.57
25:CY:90:PHE:CE2	59:CY:701:FUA:H121	2.38	0.57
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.22	0.57
25:CY:179:ASP:O	25:CY:183:MET:HA	2.04	0.57
25:CY:512:ILE:CD1	25:CY:589:ALA:HB1	2.34	0.57
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.05	0.57
41:DF:7:TYR:HD2	41:DF:16:GLY:CA	2.17	0.57
32:B6:22:ALA:C	32:B6:23:THR:HG23	2.24	0.57
41:BF:127:GLU:OE1	41:BF:196:LEU:HD12	2.04	0.57
25:AY:438:PHE:HB2	25:AY:452:SER:O	2.04	0.57
36:BA:650:C:C3'	36:BA:651:G:H5''	2.35	0.57
39:DD:142:VAL:HG23	39:DD:192:THR:O	2.05	0.57
28:D2:60:LEU:O	28:D2:63:VAL:HG12	2.04	0.57
3:AC:58:GLU:O	3:AC:59:ARG:HG3	2.05	0.57
36:DA:2672:G:C3'	36:DA:2673:G:H5''	2.35	0.57
2:AB:17:PHE:O	2:AB:204:ASN:HB2	2.05	0.57
36:DA:1210:A:H5''	36:DA:1212:G:O4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:191:ASP:HA	25:AY:265:LYS:O	2.04	0.57
51:BT:10:VAL:O	51:BT:12:SER:N	2.37	0.57
19:CS:19:VAL:HG11	19:CS:44:MET:HG2	1.85	0.57
25:CY:186:TYR:CD2	25:CY:271:LEU:HD11	2.39	0.57
36:DA:1799:G:H5'	36:DA:1819:A:N6	2.19	0.57
36:DA:1943:U:H4'	36:DA:1944:U:OP1	2.04	0.57
36:BA:1668:A:H61	36:BA:1676:A:H61	1.53	0.57
49:BR:21:TYR:HB3	49:BR:47:PHE:CE2	2.39	0.57
57:DZ:54:HIS:HA	57:DZ:98:MET:HE2	1.87	0.57
4:AD:61:LYS:HD3	4:AD:206:PHE:CD2	2.40	0.57
25:AY:628:ARG:NE	25:AY:648:PRO:HG2	2.19	0.57
34:B8:25:MET:HG3	47:BP:64:LYS:HB3	1.86	0.57
41:DF:18:ARG:HG2	41:DF:19:GLU:N	2.19	0.57
25:AY:314:PHE:CD1	25:AY:315:LYS:N	2.72	0.57
25:AY:327:PHE:HA	25:AY:375:GLY:O	2.05	0.57
36:BA:328:U:H4'	56:BY:68:HIS:NE2	2.19	0.57
31:D5:16:ARG:HH11	31:D5:20:ARG:NH1	2.03	0.57
46:BO:105:GLU:HA	46:BO:108:GLU:OE2	2.04	0.57
36:BA:20:C:H2'	36:BA:21:A:H8	1.69	0.57
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.05	0.57
36:DA:341:G:H2'	36:DA:342:G:C8	2.39	0.57
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.69	0.57
36:BA:458:G:N2	36:BA:469:G:H2'	2.20	0.57
1:CA:908:A:H2'	1:CA:909:A:C8	2.40	0.57
1:AA:836:G:C6	1:AA:851:G:C6	2.91	0.57
36:BA:500:G:N2	36:BA:502:A:H3'	2.19	0.57
11:CK:33:THR:HA	11:CK:40:ILE:HG12	1.86	0.57
26:D0:7:LEU:HD13	48:DQ:85:LYS:HG3	1.86	0.57
50:DS:42:ASP:C	50:DS:44:LYS:H	2.07	0.57
5:CE:20:GLN:O	5:CE:21:ALA:C	2.42	0.57
23:CW:40:C:O2'	23:CW:41:C:H5'	2.04	0.57
36:BA:341:G:H2'	36:BA:342:G:C8	2.40	0.57
1:CA:1503:A:C2	24:CX:11:A:N3	2.72	0.57
41:BF:160:ASN:ND2	41:BF:162:LEU:H	2.03	0.57
27:B1:11:ARG:HB2	27:B1:12:PRO:HD2	1.85	0.57
55:DX:12:VAL:HG12	55:DX:27:THR:HG23	1.87	0.57
56:BY:77:PRO:O	56:BY:78:ALA:HB2	2.05	0.57
50:BS:28:VAL:CG1	50:BS:29:PHE:H	2.13	0.57
42:BG:68:PRO:HA	42:BG:92:VAL:CG1	2.29	0.57
50:DS:98:VAL:C	50:DS:100:ALA:H	2.07	0.57
28:D2:11:GLU:O	28:D2:15:LYS:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2723:C:C5'	49:DR:2:ARG:NH1	2.66	0.57
27:B1:76:ARG:NH1	27:B1:95:LEU:HD22	2.20	0.57
47:BP:48:PRO:O	47:BP:50:ARG:N	2.37	0.57
47:DP:57:THR:OG1	47:DP:59:LEU:CB	2.53	0.57
23:AW:71:C:H2'	23:AW:72:A:C8	2.26	0.57
37:DB:102:A:H3'	37:DB:103:G:H8	1.68	0.57
51:DT:35:LYS:HZ3	51:DT:41:ARG:NH1	2.01	0.57
25:AY:404:VAL:HG12	25:AY:404:VAL:O	2.03	0.57
36:DA:1789:A:H2'	36:DA:1790:C:O4'	2.03	0.57
30:D4:14:ILE:HG23	30:D4:31:ILE:CG2	2.35	0.57
36:DA:884:C:H41	36:DA:886:C:H42	1.51	0.57
48:DQ:56:ARG:HA	48:DQ:56:ARG:HE	1.69	0.57
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.18	0.57
1:AA:759:A:C2'	1:AA:760:G:H5'	2.34	0.57
7:CG:80:VAL:HG21	7:CG:83:ALA:HB3	1.86	0.57
7:CG:85:TYR:CD2	7:CG:154:TYR:HE2	2.22	0.57
48:BQ:17:LEU:C	48:BQ:18:LYS:HD2	2.25	0.57
2:AB:80:ILE:H	2:AB:80:ILE:HD12	1.70	0.57
42:BG:37:VAL:HA	42:BG:158:ALA:O	2.04	0.57
31:D5:29:THR:O	31:D5:42:PRO:HD2	2.04	0.57
38:DC:57:GLN:HE21	38:DC:205:ALA:HA	1.69	0.57
28:B2:20:GLU:HG3	28:B2:21:LEU:N	2.20	0.57
34:B8:25:MET:SD	47:BP:64:LYS:HD2	2.44	0.57
36:BA:1223:G:C3'	36:BA:1224:C:H5''	2.35	0.57
36:BA:548:A:C2'	36:BA:549:G:H5'	2.34	0.57
36:DA:2406:U:C2	47:DP:72:PRO:HB2	2.40	0.57
36:DA:1368:G:O2'	36:DA:1369:G:H5'	2.05	0.57
36:BA:910:A:C5	48:BQ:13:GLN:HG3	2.39	0.57
31:B5:16:ARG:HH11	31:B5:20:ARG:NH1	2.02	0.57
38:DC:74:ARG:HG3	38:DC:112:ASP:OD1	2.05	0.57
52:DU:113:ALA:C	52:DU:115:ALA:H	2.08	0.57
47:DP:32:THR:HG21	47:DP:37:GLY:HA2	1.87	0.57
39:BD:232:PRO:HD2	39:BD:249:PRO:HA	1.86	0.57
25:AY:91:THR:O	25:AY:93:GLU:N	2.28	0.57
41:DF:110:LEU:HD12	41:DF:206:ILE:HD11	1.86	0.57
36:BA:2151:G:O2'	36:BA:2152:G:H5'	2.04	0.57
41:BF:22:ALA:HB1	41:BF:26:ALA:HB2	1.87	0.57
36:DA:2229:C:O2'	36:DA:2230:G:H5'	2.04	0.57
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.86	0.57
55:BX:12:VAL:O	55:BX:13:LEU:HB2	2.05	0.57
25:AY:18:ALA:O	25:AY:106:VAL:HA	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:21:ILE:O	25:AY:23:ALA:N	2.34	0.57
25:AY:25:LYS:HZ3	25:AY:86:GLY:HA2	1.70	0.57
43:BH:159:GLU:OE1	43:BH:159:GLU:HA	2.05	0.57
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.20	0.57
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.87	0.57
41:DF:127:GLU:OE1	41:DF:196:LEU:HD12	2.04	0.57
47:DP:35:HIS:O	47:DP:36:LYS:HB2	2.05	0.57
32:D6:11:LEU:HD22	32:D6:12:GLU:N	2.20	0.57
32:D6:11:LEU:HG	32:D6:26:ASN:HD22	1.67	0.57
15:AO:17:ARG:CD	15:AO:26:GLU:HG3	2.27	0.57
36:BA:1142(A):A:O2'	36:BA:1143:A:H5''	2.04	0.57
31:D5:55:ARG:HH12	49:DR:33:ARG:HG2	1.68	0.57
47:DP:97:PRO:HD3	47:DP:126:VAL:O	2.04	0.57
47:DP:127:ALA:C	47:DP:148:LEU:HD11	2.24	0.57
36:DA:2820:A:O3'	49:DR:5:LYS:HE3	2.03	0.57
47:BP:96:THR:O	47:BP:99:LEU:HB3	2.05	0.57
41:BF:117:ARG:NH2	47:BP:5:ASP:N	2.53	0.57
47:BP:57:THR:OG1	47:BP:59:LEU:CB	2.52	0.57
5:CE:76:ILE:HG22	5:CE:118:ILE:HD13	1.85	0.57
42:BG:47:LYS:HG2	42:BG:81:LYS:CB	2.34	0.57
39:BD:43:ARG:CB	39:BD:54:ARG:HB2	2.35	0.57
18:CR:44:LEU:O	18:CR:45:SER:C	2.42	0.57
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.35	0.57
3:CC:174:PRO:O	3:CC:176:HIS:N	2.37	0.57
39:DD:263:ARG:CB	39:DD:263:ARG:HH11	2.17	0.57
36:BA:654(M):C:O2'	36:BA:654(N):G:C8	2.58	0.57
38:BC:128:LEU:HD13	38:BC:131:ILE:HB	1.85	0.57
54:BW:4:LYS:HA	54:BW:106:ILE:HG22	1.87	0.57
16:CP:67:THR:H	16:CP:70:ALA:HB3	1.70	0.57
36:BA:1943:U:H4'	36:BA:1944:U:OP1	2.04	0.57
46:BO:26:LYS:HB3	46:BO:30:ALA:CB	2.33	0.57
53:BV:5:VAL:HG23	53:BV:37:VAL:O	2.04	0.57
1:CA:512:U:H2'	1:CA:513:C:H6	1.70	0.57
1:CA:513:C:O2'	1:CA:514:C:H5'	2.05	0.57
1:AA:1266:G:N2	1:AA:1270:C:N3	2.52	0.57
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.69	0.57
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.17	0.57
37:BB:61:G:O2'	37:BB:62:C:H5'	2.05	0.57
34:B8:14:VAL:CG2	34:B8:22:VAL:HG13	2.35	0.57
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.20	0.57
1:AA:1061:G:O2'	1:AA:1062:U:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.84	0.57
36:DA:2837:G:H2'	36:DA:2838:G:H8	1.69	0.57
36:DA:1759:A:H2'	36:DA:1760:A:C8	2.40	0.57
36:BA:777:A:H2'	36:BA:778:G:C8	2.39	0.57
36:BA:2704:C:H2'	36:BA:2705:A:O4'	2.04	0.57
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.69	0.57
42:DG:153:ARG:NH1	42:DG:153:ARG:HB3	2.19	0.57
25:CY:98:MET:HA	25:CY:101:LEU:CD1	2.35	0.57
25:AY:82:ILE:CG1	25:AY:101:LEU:HD23	2.35	0.57
56:DY:37:VAL:HG23	56:DY:38:ILE:N	2.19	0.57
45:BN:58:ASP:C	45:BN:60:ILE:N	2.58	0.57
25:AY:230:LYS:HZ2	25:AY:230:LYS:HB2	1.70	0.57
36:BA:797:C:H2'	36:BA:798:G:H8	1.69	0.57
45:DN:99:LEU:O	45:DN:103:VAL:HG23	2.05	0.57
41:DF:64:ILE:HG22	41:DF:76:GLY:O	2.04	0.57
38:BC:28:ARG:HH11	38:BC:28:ARG:CG	2.11	0.57
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.19	0.57
40:BE:1:MET:HB2	40:BE:83:ASP:O	2.05	0.57
42:BG:85:GLY:C	42:BG:87:PRO:HD3	2.25	0.57
39:DD:267:SER:O	39:DD:269:PHE:N	2.37	0.57
36:BA:2425:A:H4'	36:BA:2426:A:H5''	1.87	0.57
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.85	0.57
36:BA:2590:A:O2'	36:BA:2591:C:H5'	2.04	0.57
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.39	0.57
40:BE:7:VAL:CG1	40:BE:27:LEU:HB3	2.35	0.57
26:D0:19:LYS:NZ	26:D0:41:ARG:HH12	2.02	0.57
57:DZ:115:GLY:HA3	57:DZ:146:ILE:CG2	2.34	0.57
57:DZ:115:GLY:H	57:DZ:177:PRO:HG3	1.70	0.57
36:BA:654(P):C:C2'	36:BA:654(Q):C:H5'	2.34	0.57
26:D0:51:VAL:HG22	26:D0:81:VAL:HG23	1.85	0.57
43:DH:159:GLU:HA	43:DH:159:GLU:OE1	2.04	0.57
21:CU:2:GLY:C	21:CU:4:GLY:H	2.08	0.57
36:DA:1930:G:H2'	36:DA:1968:G:O6	2.04	0.57
28:B2:64:LEU:C	28:B2:64:LEU:HD13	2.25	0.57
39:BD:28:GLU:H	39:BD:29:PRO:HD2	1.70	0.57
36:BA:1473:G:H2'	36:BA:1474:C:O4'	2.05	0.57
36:BA:1395:A:H4'	36:BA:1397:U:C5	2.40	0.57
9:CI:10:ARG:HG3	9:CI:75:ASP:HB3	1.87	0.57
1:CA:1206:G:H4'	3:CC:192:THR:O	2.05	0.57
45:BN:96:GLU:OE1	45:BN:96:GLU:N	2.37	0.57
24:AX:12:A:C4'	24:AX:13:A:OP2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.04	0.57
25:CY:513:LYS:HB2	25:CY:566:THR:HB	1.86	0.57
36:DA:1053:C:H3'	36:DA:1054:A:H5''	1.86	0.57
45:BN:3:THR:HG22	45:BN:4:TYR:N	2.20	0.57
52:BU:96:ALA:C	52:BU:98:LEU:H	2.08	0.57
3:AC:78:GLY:HA3	3:AC:83:ARG:HB3	1.85	0.57
57:BZ:166:SER:HB2	57:BZ:167:PRO:HA	1.87	0.57
3:CC:50:ALA:HB1	3:CC:70:VAL:CG1	2.35	0.57
56:BY:39:VAL:HG12	56:BY:40:GLU:HG2	1.86	0.57
36:DA:1141:U:H5''	45:DN:63:THR:HG23	1.86	0.57
25:CY:607:ARG:HA	25:CY:645:ALA:O	2.05	0.57
25:AY:177:ILE:HG21	25:AY:260:LEU:HD21	1.87	0.57
36:DA:2103:C:H2'	36:DA:2103:C:O2	2.03	0.57
36:BA:2103:C:H2'	36:BA:2103:C:O2	2.04	0.57
17:CQ:3:LYS:HB3	17:CQ:61:GLU:HB3	1.86	0.57
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.25	0.57
27:D1:73:LEU:HD23	27:D1:94:LEU:HD22	1.87	0.57
39:DD:43:ARG:CB	39:DD:54:ARG:HB2	2.34	0.57
36:DA:1434:A:H61	36:DA:1558:A:H62	1.50	0.57
1:AA:1442:G:C4	51:BT:118:ARG:NH2	2.73	0.57
41:DF:53:THR:CG2	41:DF:56:GLU:HG3	2.32	0.57
27:D1:26:ARG:HG3	27:D1:27:GLU:H	1.68	0.57
4:CD:28:SER:O	4:CD:30:LYS:N	2.36	0.57
41:DF:68:LYS:HG3	41:DF:69:HIS:CD2	2.40	0.57
40:DE:59:VAL:CG2	40:DE:63:LEU:HA	2.35	0.57
57:BZ:79:ARG:O	57:BZ:79:ARG:HG3	2.05	0.57
12:AL:27:LEU:CD1	12:AL:28:LYS:H	2.18	0.57
12:CL:38:THR:CG2	12:CL:57:LYS:HB3	2.35	0.57
36:BA:1609:A:H1'	36:BA:1616:A:C1'	2.35	0.57
3:AC:174:PRO:O	3:AC:176:HIS:N	2.38	0.57
36:BA:2105:C:N4	36:BA:2184:G:H1	2.03	0.57
19:AS:41:VAL:O	19:AS:43:GLU:N	2.37	0.57
57:DZ:23:LYS:HD3	57:DZ:38:TYR:HE1	1.70	0.57
36:DA:958:U:H6	36:DA:958:U:H3'	1.68	0.57
11:CK:91:ARG:HH11	18:CR:88:LYS:HE3	1.68	0.57
16:AP:67:THR:HB	16:AP:70:ALA:HB2	1.87	0.57
12:CL:32:PHE:CE1	12:CL:86:ARG:HG3	2.38	0.57
50:DS:19:LYS:HB3	50:DS:20:ARG:NH2	2.19	0.57
37:BB:20:C:C2'	37:BB:21:G:H5''	2.35	0.57
36:DA:1174:A:H5'	36:DA:1175:U:H5''	1.86	0.57
39:BD:242:ARG:HG3	39:BD:242:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:99:ARG:HA	25:AY:128:TYR:CZ	2.40	0.57
17:AQ:4:LYS:HG3	17:AQ:6:LEU:HD21	1.86	0.57
39:BD:148:GLU:O	39:BD:151:LYS:HG3	2.05	0.57
36:BA:35:G:O2'	36:BA:36:G:H5'	2.04	0.57
36:DA:816:C:O2'	36:DA:817:C:H5'	2.05	0.57
36:BA:1401:G:H2'	36:BA:1402:C:O4'	2.05	0.57
36:BA:2504:U:O5'	36:BA:2504:U:H6	1.87	0.57
13:AM:92:HIS:CE1	13:AM:98:VAL:HG21	2.40	0.57
38:DC:118:PRO:HA	38:DC:121:MET:HG2	1.87	0.57
38:DC:127:LYS:O	38:DC:128:LEU:HD22	2.05	0.57
25:CY:539:ILE:O	25:CY:542:VAL:HG12	2.05	0.57
27:B1:3:LYS:HE3	36:BA:1364:G:C8	2.39	0.57
9:AI:65:VAL:HG21	9:AI:73:GLN:CB	2.35	0.57
36:BA:2733:A:O2'	36:BA:2734:A:H5'	2.05	0.57
30:B4:9:LEU:HA	30:B4:26:SER:O	2.04	0.57
36:BA:962:G:H2'	36:BA:963:U:O4'	2.05	0.57
51:BT:102:ILE:HG13	51:BT:103:ARG:N	2.19	0.57
51:BT:28:VAL:HG21	51:BT:46:GLU:HG3	1.87	0.57
39:DD:34:VAL:HG23	39:DD:35:LYS:H	1.68	0.57
1:AA:192:U:H2'	1:AA:193:C:C6	2.40	0.57
36:BA:797:C:P	41:BF:62:ARG:HG3	2.44	0.57
34:B8:48:PHE:C	34:B8:49:VAL:HG22	2.24	0.57
36:DA:797:C:H2'	36:DA:798:G:H8	1.70	0.57
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.34	0.57
56:DY:17:SER:OG	56:DY:18:GLY:N	2.37	0.57
9:CI:104:ARG:C	9:CI:105:ASP:N	2.58	0.57
1:CA:424:G:H2'	1:CA:425:G:H8	1.69	0.57
1:AA:956:U:O2'	1:AA:957:U:H5'	2.05	0.57
40:DE:1:MET:HB2	40:DE:83:ASP:O	2.04	0.57
36:BA:519:U:H2'	36:BA:520:G:H8	1.68	0.57
43:DH:17:VAL:CG1	43:DH:50:VAL:HG21	2.34	0.57
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	2.05	0.57
51:DT:10:VAL:C	51:DT:12:SER:N	2.56	0.57
36:BA:621:A:H2'	36:BA:622:G:C5'	2.32	0.57
30:B4:14:ILE:HG23	30:B4:31:ILE:CG2	2.35	0.57
36:BA:654(P):C:H2'	36:BA:654(Q):C:O4'	2.04	0.57
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.04	0.57
38:BC:185:LYS:HE3	38:BC:185:LYS:CA	2.34	0.57
54:DW:68:ARG:HB3	54:DW:110:LYS:H	1.70	0.57
48:DQ:51:ARG:O	48:DQ:54:MET:HB3	2.05	0.57
43:DH:159:GLU:HG3	43:DH:160:LYS:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.17	0.57
36:DA:1639:U:O2'	36:DA:1640:C:H5''	2.04	0.57
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.40	0.57
1:CA:833:U:H2'	1:CA:834:C:H6	1.68	0.57
21:AU:2:GLY:C	21:AU:4:GLY:H	2.08	0.57
36:DA:1812:A:O2'	36:DA:1813:G:H5'	2.05	0.57
56:DY:55:TYR:N	56:DY:55:TYR:CD1	2.70	0.57
8:CH:29:SER:OG	8:CH:32:LYS:HG3	2.05	0.57
39:BD:248:SER:HB2	39:BD:249:PRO:HD2	1.86	0.57
36:DA:2081:C:O2'	36:DA:2082:A:H5'	2.05	0.57
46:BO:120:GLU:CD	46:BO:122:LEU:HD21	2.25	0.57
36:BA:1461:G:H2'	36:BA:1462:C:H6	1.70	0.57
36:DA:250:G:H2'	36:DA:251:A:C8	2.40	0.57
16:CP:74:LEU:HD23	16:CP:79:VAL:HG21	1.85	0.57
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.04	0.57
1:CA:487:A:H2'	1:CA:488:C:O4'	2.05	0.57
43:DH:105:LEU:CD2	43:DH:113:VAL:HB	2.34	0.57
1:AA:575:G:OP1	1:AA:575:G:H4'	2.03	0.57
7:AG:22:LEU:HD23	7:AG:22:LEU:O	2.04	0.57
25:AY:33:LEU:HD23	25:AY:360:ALA:CB	2.33	0.56
43:DH:12:PRO:HB2	43:DH:15:VAL:HG11	1.87	0.56
36:DA:1053:C:H2'	36:DA:1054:A:C5'	2.31	0.56
45:BN:7:LYS:O	45:BN:9:VAL:N	2.37	0.56
25:AY:546:ILE:HG23	25:AY:590:ILE:CG1	2.31	0.56
41:BF:10:PRO:HD2	41:BF:13:SER:O	2.05	0.56
47:BP:105:LEU:HD12	47:BP:105:LEU:N	2.19	0.56
25:AY:573:HIS:HD2	25:AY:576:ASP:N	1.95	0.56
36:DA:512:G:HO2'	36:DA:513:A:H8	1.53	0.56
51:BT:53:ARG:HH11	51:BT:53:ARG:CB	2.14	0.56
23:AW:15:G:H2'	23:AW:16:C:H5'	1.87	0.56
40:BE:34:VAL:O	40:BE:35:GLN:CB	2.52	0.56
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.19	0.56
2:CB:12:GLU:HB3	2:CB:16:HIS:HB2	1.87	0.56
42:BG:106:LEU:HA	42:BG:110:ALA:HB3	1.86	0.56
43:BH:83:TYR:O	43:BH:84:SER:HB3	2.04	0.56
36:BA:226:G:O2'	36:BA:227:A:C8	2.47	0.56
41:DF:157:VAL:HG22	41:DF:194:MET:HG2	1.86	0.56
43:DH:124:GLU:CB	43:DH:132:ARG:HG3	2.35	0.56
31:D5:19:ARG:HG3	36:DA:2046:G:H5''	1.86	0.56
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.05	0.56
8:CH:87:SER:OG	8:CH:92:ARG:HA	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.20	0.56
39:DD:218:ARG:HB3	39:DD:219:PRO:HD2	1.87	0.56
14:CN:37:PHE:CE2	14:CN:53:LEU:HD22	2.40	0.56
1:CA:658:G:O4'	15:CO:22:THR:HB	2.04	0.56
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.20	0.56
37:BB:40:U:O2	37:BB:43:C:H5''	2.05	0.56
36:DA:1813:G:H1'	39:DD:50:THR:OG1	2.05	0.56
36:BA:803:U:C2'	36:BA:804:A:H5'	2.35	0.56
25:AY:636:PRO:O	25:AY:637:ARG:HD3	2.05	0.56
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.19	0.56
22:CV:68:C:H2'	22:CV:69:G:C8	2.40	0.56
1:CA:1076:C:H5'	1:CA:1077:G:OP2	2.05	0.56
36:BA:503:A:H4'	36:BA:504:U:H5'	1.87	0.56
23:AW:54:5MU:O2'	23:AW:55:U:H5'	2.05	0.56
7:CG:51:GLN:HA	7:CG:51:GLN:OE1	2.05	0.56
40:DE:101:ARG:NE	40:DE:171:GLU:HB2	2.20	0.56
25:AY:484:ARG:CD	25:AY:559:PRO:HB2	2.34	0.56
42:DG:133:LEU:CD1	42:DG:157:ILE:HD12	2.35	0.56
25:CY:462:ILE:O	25:CY:466:LEU:HD13	2.04	0.56
41:DF:160:ASN:ND2	41:DF:162:LEU:H	2.03	0.56
25:AY:282:SER:O	25:AY:286:ILE:HD13	2.04	0.56
37:BB:50:G:OP1	50:BS:63:THR:HG23	2.04	0.56
32:D6:7:ILE:O	32:D6:7:ILE:HG22	2.03	0.56
36:DA:83:G:N2	36:DA:102:G:H2'	2.20	0.56
52:DU:65:ILE:HD11	52:DU:93:LYS:HA	1.86	0.56
31:D5:3:LYS:CE	36:DA:2613:U:H2'	2.34	0.56
47:BP:83:VAL:CB	47:BP:105:LEU:HD22	2.35	0.56
25:CY:530:VAL:HG22	25:CY:531:GLY:N	2.11	0.56
57:DZ:166:SER:CB	57:DZ:168:GLU:HG3	2.35	0.56
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.85	0.56
51:DT:57:PHE:C	51:DT:58:ASN:HD22	2.08	0.56
36:BA:1210:A:H5''	36:BA:1212:G:O4'	2.04	0.56
2:CB:213:LEU:O	2:CB:213:LEU:HD23	2.06	0.56
25:CY:25:LYS:HZ1	25:CY:86:GLY:HA2	1.70	0.56
39:BD:145:VAL:HG13	39:BD:191:ALA:HB2	1.86	0.56
51:BT:10:VAL:C	51:BT:12:SER:N	2.57	0.56
57:DZ:63:ASP:C	57:DZ:65:GLN:H	2.08	0.56
1:AA:183:G:H2'	1:AA:184:G:C8	2.40	0.56
53:DV:79:VAL:O	53:DV:79:VAL:HG12	2.05	0.56
43:BH:124:GLU:CB	43:BH:132:ARG:HG3	2.35	0.56
26:B0:14:ARG:NH1	36:BA:2279:G:O6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:51:ARG:O	48:BQ:55:VAL:HG12	2.05	0.56
36:DA:1438:U:O2'	36:DA:1439:A:H5'	2.06	0.56
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.06	0.56
25:AY:105:ILE:HD12	25:AY:105:ILE:N	2.18	0.56
1:AA:450:G:H1	1:AA:483:C:H42	1.53	0.56
39:DD:261:LYS:HZ1	39:DD:263:ARG:HH22	1.53	0.56
36:DA:1717:G:C3'	36:DA:1718:G:H5''	2.35	0.56
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.06	0.56
54:BW:14:PRO:O	54:BW:18:ARG:HG3	2.04	0.56
56:DY:10:GLY:HA2	56:DY:27:VAL:HG13	1.87	0.56
56:DY:27:VAL:HG12	56:DY:29:GLU:OE1	2.05	0.56
26:B0:51:VAL:HG22	26:B0:81:VAL:HG23	1.86	0.56
50:BS:19:LYS:HB3	50:BS:20:ARG:NH2	2.20	0.56
38:BC:57:GLN:HE21	38:BC:205:ALA:HA	1.70	0.56
36:BA:1794:U:H2'	36:BA:1795:C:H6	1.70	0.56
44:BJ:26:UNK:CA	44:BJ:84:UNK:HA	2.35	0.56
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.70	0.56
1:AA:1493:A:H61	25:AY:579:GLU:CG	2.17	0.56
1:AA:821:G:O2'	1:AA:822:C:H5'	2.05	0.56
36:DA:2704:C:H2'	36:DA:2705:A:O4'	2.05	0.56
25:CY:631:ILE:HD11	25:CY:643:ILE:HG21	1.87	0.56
16:CP:19:ILE:N	16:CP:37:GLY:O	2.38	0.56
38:BC:74:ARG:HG3	38:BC:112:ASP:OD1	2.05	0.56
1:AA:382:A:H2'	1:AA:383:A:H8	1.70	0.56
36:BA:2759:G:O2'	36:BA:2760:C:H5'	2.05	0.56
1:AA:1206:G:H4'	3:AC:192:THR:O	2.04	0.56
40:BE:100:GLU:O	40:BE:172:VAL:HG23	2.05	0.56
46:BO:10:VAL:HG21	46:BO:16:ALA:O	2.05	0.56
22:CV:42:C:H2'	22:CV:42:C:O2	2.04	0.56
36:BA:1316:U:H2'	36:BA:1317:A:H8	1.70	0.56
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.04	0.56
36:DA:2504:U:H6	36:DA:2504:U:O5'	1.88	0.56
36:DA:2150:U:H2'	36:DA:2151:G:C8	2.41	0.56
24:CX:18:C:H5''	24:CX:19:A:OP1	2.02	0.56
25:CY:505:GLY:HA3	25:CY:576:ASP:CG	2.26	0.56
42:DG:91:ARG:C	42:DG:91:ARG:HD2	2.25	0.56
25:CY:21:ILE:H	25:CY:21:ILE:HD13	1.69	0.56
25:AY:15:ILE:O	25:AY:101:LEU:HD22	2.05	0.56
25:AY:85:PRO:CA	25:AY:94:VAL:HG22	2.26	0.56
1:AA:1367:C:H4'	10:AJ:48:THR:HG21	1.86	0.56
36:DA:2310:A:C8	42:DG:75:LYS:HD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:76:CYS:HB3	56:BY:96:ILE:CD1	2.23	0.56
45:BN:41:ASP:C	52:BU:64:ARG:HH12	2.09	0.56
50:BS:93:LYS:O	50:BS:95:HIS:N	2.37	0.56
36:DA:813:U:H2'	36:DA:814:C:H6	1.65	0.56
50:DS:89:ARG:HG3	50:DS:92:TYR:HA	1.87	0.56
50:DS:97:ARG:HE	50:DS:97:ARG:C	2.08	0.56
32:D6:27:LYS:CD	32:D6:27:LYS:O	2.53	0.56
32:B6:11:LEU:HD22	32:B6:12:GLU:N	2.20	0.56
41:BF:195:ASP:OD1	41:BF:196:LEU:N	2.38	0.56
25:AY:621:ILE:HG23	25:AY:631:ILE:CG1	2.26	0.56
25:AY:655:TYR:OH	25:AY:659:LEU:HD23	2.04	0.56
32:B6:15:GLU:CD	32:B6:44:ARG:NH2	2.59	0.56
36:BA:648:G:H2'	36:BA:649:G:H8	1.69	0.56
51:BT:28:VAL:HG13	51:BT:46:GLU:CA	2.35	0.56
51:BT:50:ILE:CG1	51:BT:102:ILE:HD11	2.35	0.56
36:DA:1204:A:N1	36:DA:1241:A:H2	2.02	0.56
41:DF:28:ILE:HG21	41:DF:116:ASP:HB2	1.88	0.56
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.20	0.56
36:BA:1203:G:H3'	36:BA:1204:A:C5'	2.35	0.56
39:DD:35:LYS:O	39:DD:36:PRO:C	2.43	0.56
41:BF:68:LYS:HG3	41:BF:69:HIS:CD2	2.39	0.56
26:B0:24:LYS:O	26:B0:25:ARG:HD3	2.05	0.56
25:AY:526:VAL:HG11	25:AY:566:THR:HG23	1.86	0.56
45:BN:99:LEU:O	45:BN:103:VAL:HG23	2.05	0.56
48:DQ:134:ARG:NE	57:DZ:122:ARG:NH2	2.53	0.56
36:BA:661:C:O3'	47:BP:18:ARG:HD2	2.06	0.56
3:CC:78:GLY:HA3	3:CC:83:ARG:HB3	1.88	0.56
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.05	0.56
27:B1:30:VAL:H	36:BA:2396:G:H4'	1.71	0.56
36:BA:1539:G:H2'	36:BA:1540:U:O4'	2.05	0.56
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.22	0.56
25:CY:228:MET:O	25:CY:231:TYR:HB3	2.04	0.56
42:BG:114:ILE:O	42:BG:114:ILE:HG22	2.05	0.56
1:AA:521:G:H4'	12:AL:73:GLU:HG3	1.87	0.56
3:CC:79:ARG:HG3	3:CC:79:ARG:O	2.05	0.56
1:CA:738:C:H2'	1:CA:739:C:H6	1.70	0.56
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.85	0.56
3:AC:79:ARG:HB2	3:AC:79:ARG:NH1	2.18	0.56
10:CJ:63:PHE:CD1	10:CJ:63:PHE:N	2.73	0.56
48:DQ:101:ARG:HD2	48:DQ:102:VAL:N	2.20	0.56
41:BF:53:THR:HG22	41:BF:56:GLU:CG	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:45:GLN:HB2	20:AT:91:LEU:HD22	1.88	0.56
36:DA:1609:A:H1'	36:DA:1616:A:C1'	2.35	0.56
47:BP:75:ILE:HG21	47:BP:77:ARG:HH21	1.71	0.56
25:CY:316:ILE:HG21	25:CY:324:ARG:NH2	2.21	0.56
36:DA:883:G:O2'	36:DA:884:C:H5'	2.05	0.56
36:DA:2469:A:H2	36:DA:2481:G:N2	2.02	0.56
35:B9:29:ASN:N	35:B9:29:ASN:HD22	2.03	0.56
35:D9:17:ILE:HG22	35:D9:18:ARG:N	2.20	0.56
36:DA:2148:G:O2'	36:DA:2149:G:H5'	2.05	0.56
2:CB:142:LEU:O	2:CB:146:GLN:HB2	2.05	0.56
12:AL:79:GLU:HB2	25:AY:442:THR:HG21	1.87	0.56
53:BV:34:GLU:C	53:BV:35:LEU:HD22	2.26	0.56
25:CY:35:TYR:CE2	25:CY:269:VAL:HB	2.41	0.56
1:CA:368:U:P	25:CY:351:ARG:HH21	2.28	0.56
1:AA:1270:C:H4'	1:AA:1313:U:O2'	2.06	0.56
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.70	0.56
36:DA:1198:U:O2	36:DA:1198:U:H2'	2.03	0.56
1:AA:165:C:O2'	1:AA:166:G:H5'	2.05	0.56
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.43	0.56
36:DA:271(F):C:O2'	36:DA:271(G):C:H5'	2.05	0.56
36:BA:822:U:H2'	36:BA:823:G:C8	2.40	0.56
1:CA:1010:G:H1	1:CA:1020:U:H1'	1.70	0.56
47:DP:79:ARG:O	47:DP:111:ARG:HB2	2.05	0.56
43:BH:105:LEU:N	43:BH:105:LEU:HD23	2.20	0.56
23:AW:76:A:H61	36:BA:2422:A:C5'	2.18	0.56
39:DD:28:GLU:H	39:DD:29:PRO:HD2	1.70	0.56
28:D2:50:ILE:CG2	28:D2:54:LYS:HE3	2.36	0.56
1:AA:358:U:H2'	1:AA:359:U:C6	2.40	0.56
13:CM:92:HIS:CE1	13:CM:98:VAL:HG21	2.40	0.56
6:CF:18:GLN:O	6:CF:21:LEU:HB2	2.06	0.56
8:CH:34:GLU:HB3	8:CH:118:VAL:HG21	1.88	0.56
26:D0:7:LEU:CD2	48:DQ:81:VAL:HG23	2.35	0.56
36:DA:500:G:N2	36:DA:502:A:H3'	2.20	0.56
15:CO:57:LEU:H	15:CO:57:LEU:HD23	1.70	0.56
1:AA:46:G:O2'	1:AA:365:U:H1'	2.06	0.56
1:AA:296:U:O2'	1:AA:297:G:H5'	2.04	0.56
38:BC:34:ALA:HA	38:BC:40:GLU:OE2	2.05	0.56
29:D3:16:PRO:HB2	29:D3:18:ASP:OD1	2.04	0.56
22:AV:48:C:H2'	22:AV:59:U:H4'	1.87	0.56
6:AF:36:ARG:CZ	6:AF:36:ARG:HB3	2.35	0.56
36:DA:1654:A:O2'	40:DE:113:PHE:O	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:751:A:H5'	54:DW:90:ARG:HA	1.86	0.56
38:DC:48:LEU:HD12	38:DC:48:LEU:N	2.19	0.56
44:DJ:74:UNK:C	44:DJ:76:UNK:N	2.68	0.56
1:CA:1061:G:O2'	1:CA:1062:U:H5'	2.05	0.56
46:DO:2:ILE:HD11	46:DO:82:ASN:HD22	1.70	0.56
36:DA:2556:C:H2'	36:DA:2557:G:O4'	2.05	0.56
6:CF:80:ARG:HH11	6:CF:88:VAL:HB	1.70	0.56
36:DA:533:G:H5''	52:DU:24:TYR:CE1	2.41	0.56
27:D1:14:VAL:HG21	36:DA:188:G:H5'	1.87	0.56
1:AA:695:A:H2'	1:AA:696:A:C8	2.40	0.56
38:BC:14:LYS:H	38:BC:14:LYS:HD3	1.70	0.56
1:CA:337:C:H2'	1:CA:338:A:H8	1.69	0.56
24:CX:12:A:C4'	24:CX:13:A:OP2	2.53	0.56
25:CY:132:ARG:O	25:CY:132:ARG:HG2	2.06	0.56
25:AY:28:THR:O	25:AY:32:ILE:HG13	2.04	0.56
25:AY:138:LYS:HG2	60:AY:702:GDP:C5	2.40	0.56
36:DA:2131:G:H5'	36:DA:2133:G:H1'	1.86	0.56
56:DY:77:PRO:O	56:DY:78:ALA:HB2	2.06	0.56
36:BA:2820:A:O3'	49:BR:5:LYS:HE3	2.05	0.56
36:BA:1278:A:O2'	36:BA:1279:G:H5'	2.05	0.56
32:B6:9:LEU:O	32:B6:9:LEU:HD22	2.06	0.56
15:AO:17:ARG:HH11	15:AO:17:ARG:HG3	1.69	0.56
45:DN:7:LYS:O	45:DN:9:VAL:N	2.38	0.56
52:DU:83:LEU:HG	52:DU:88:ILE:HD11	1.87	0.56
36:DA:940:G:H3'	36:DA:941:A:H5''	1.87	0.56
25:AY:608:VAL:HG12	25:AY:609:GLU:N	2.20	0.56
39:BD:259:THR:O	39:BD:260:ARG:C	2.43	0.56
32:B6:41:PRO:HD3	32:B6:47:THR:HG22	1.86	0.56
25:AY:252:ASP:N	25:AY:252:ASP:OD1	2.38	0.56
51:BT:109:GLU:HA	51:BT:112:ARG:HB3	1.88	0.56
39:DD:61:LEU:O	39:DD:63:ARG:NH1	2.39	0.56
25:AY:512:ILE:H	25:AY:512:ILE:CD1	2.17	0.56
20:AT:11:SER:HA	20:AT:13:LEU:CD1	2.35	0.56
42:BG:81:LYS:O	42:BG:83:ARG:HG3	2.06	0.56
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.04	0.56
57:BZ:40:ASP:HB3	57:BZ:43:GLU:CG	2.34	0.56
51:BT:1:MET:N	51:BT:7:ILE:HD11	2.20	0.56
51:DT:1:MET:N	51:DT:7:ILE:HD11	2.21	0.56
18:CR:87:ARG:HB3	18:CR:87:ARG:HH11	1.70	0.56
39:DD:95:LEU:HD12	39:DD:103:ARG:O	2.06	0.56
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1300:G:O2'	1:AA:1301:U:P	2.63	0.56
36:DA:11:G:H22	36:DA:2628:C:P	2.29	0.56
34:D8:25:MET:HG3	47:DP:64:LYS:HB2	1.88	0.56
36:DA:1186:G:C2'	36:DA:1187:G:H5'	2.35	0.56
36:BA:2406:U:C2	47:BP:72:PRO:HB2	2.40	0.56
4:CD:70:ILE:HD11	4:CD:74:GLN:HB3	1.86	0.56
40:DE:108:SER:O	40:DE:162:ALA:HA	2.05	0.56
36:BA:2678:C:O2'	36:BA:2679:A:H5'	2.06	0.56
46:DO:107:ARG:O	46:DO:112:MET:HE1	2.06	0.56
36:DA:1525:G:H2'	36:DA:1526:G:C8	2.40	0.56
36:DA:2695:C:H2'	36:DA:2696:U:C6	2.41	0.56
36:BA:2332:U:H5'	36:BA:2336:A:N6	2.20	0.56
6:CF:47:ARG:HG2	6:CF:47:ARG:HH11	1.70	0.56
45:DN:96:GLU:OE1	45:DN:96:GLU:N	2.39	0.56
42:DG:131:TYR:CE2	42:DG:133:LEU:HD23	2.41	0.56
55:BX:12:VAL:HG12	55:BX:27:THR:HG23	1.86	0.56
25:CY:21:ILE:O	25:CY:22:ASP:CB	2.53	0.56
25:AY:121:VAL:HA	25:AY:124:GLN:NE2	2.20	0.56
41:BF:2:LYS:HG3	41:BF:25:PRO:HG2	1.87	0.56
36:DA:2008:C:H2'	36:DA:2009:G:C8	2.40	0.56
36:BA:2131:G:H5'	36:BA:2133:G:H1'	1.86	0.56
57:BZ:122:ARG:HH11	57:BZ:122:ARG:HG2	1.71	0.56
25:AY:554:PRO:HG3	25:AY:594:VAL:CG1	2.36	0.56
56:BY:8:LYS:H	56:BY:8:LYS:HD2	1.68	0.56
36:BA:1301:A:O2'	36:BA:1302:A:C2'	2.46	0.56
36:DA:2346:A:C2	36:DA:2383:G:C2	2.94	0.56
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.09	0.56
51:BT:63:VAL:O	51:BT:73:GLU:HA	2.06	0.56
51:DT:63:VAL:O	51:DT:73:GLU:HA	2.06	0.56
25:CY:530:VAL:O	25:CY:532:GLY:N	2.38	0.56
5:CE:145:LYS:HA	8:CH:107:LEU:CD2	2.35	0.56
36:BA:1657:C:H2'	36:BA:1658:C:C6	2.40	0.56
40:BE:77:ILE:HG22	40:BE:78:LEU:CD1	2.35	0.56
25:AY:92:ILE:HD13	25:AY:92:ILE:O	2.04	0.56
39:BD:270:ILE:CD1	39:BD:270:ILE:H	2.09	0.56
16:CP:25:ARG:HG3	16:CP:25:ARG:NH1	2.19	0.56
12:CL:53:ARG:HG2	12:CL:93:LEU:HD21	1.87	0.56
18:AR:45:SER:OG	18:AR:46:GLU:N	2.39	0.56
12:AL:53:ARG:HG2	12:AL:93:LEU:HD21	1.88	0.56
42:BG:51:ARG:NE	42:BG:53:LEU:HD21	2.20	0.56
1:AA:1442(A):G:O2'	1:AA:1442(B):A:H5''	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:40:GLN:HE22	26:B0:43:THR:HA	1.71	0.56
1:AA:191:G:N3	20:AT:105:SER:HB3	2.21	0.56
54:DW:4:LYS:HA	54:DW:106:ILE:HG22	1.88	0.56
41:BF:157:VAL:HG22	41:BF:194:MET:HA	1.87	0.56
1:CA:1106:G:O2'	1:CA:1107:C:H5'	2.06	0.56
47:DP:75:ILE:HG21	47:DP:77:ARG:HH21	1.71	0.56
11:AK:91:ARG:HH11	18:AR:88:LYS:HE3	1.69	0.56
7:AG:85:TYR:CD2	7:AG:154:TYR:HE2	2.23	0.56
27:D1:53:VAL:CG2	27:D1:74:VAL:HG13	2.35	0.56
36:BA:1639:U:C2'	36:BA:1640:C:H5''	2.36	0.56
36:DA:1666:G:H1'	46:DO:3:GLN:HE21	1.70	0.56
46:BO:4:PRO:O	46:BO:5:GLN:CB	2.54	0.56
36:DA:752:A:O2'	36:DA:753:C:OP2	2.19	0.56
1:CA:1266:G:N2	1:CA:1270:C:N3	2.52	0.56
1:CA:992:U:H4'	1:CA:993:G:O5'	2.04	0.56
29:B3:38:GLU:HB3	29:B3:43:ILE:HG13	1.88	0.56
23:AW:10:G:H2'	23:AW:11:A:C8	2.40	0.56
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.70	0.56
50:BS:42:ASP:C	50:BS:44:LYS:H	2.08	0.56
56:BY:84:ARG:HH11	56:BY:84:ARG:HG2	1.70	0.56
7:CG:35:LYS:HE3	7:CG:38:LEU:HD23	1.86	0.56
12:CL:82:VAL:HG12	12:CL:105:TYR:HD2	1.70	0.56
6:AF:36:ARG:NH1	6:AF:36:ARG:HB3	2.20	0.56
53:BV:32:THR:HG23	53:BV:59:ALA:O	2.05	0.56
36:BA:2028:U:H2'	36:BA:2029:G:C8	2.40	0.56
53:BV:8:GLY:HA3	53:BV:23:GLU:HG3	1.87	0.56
53:DV:8:GLY:HA3	53:DV:23:GLU:HG3	1.87	0.56
28:B2:30:ARG:O	28:B2:34:GLU:HB2	2.06	0.56
38:BC:172:ILE:HD13	38:BC:197:LEU:HD21	1.86	0.56
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.70	0.56
15:AO:53:HIS:CE1	15:AO:57:LEU:HD21	2.40	0.56
36:BA:2162:G:H2'	36:BA:2163:C:C6	2.41	0.56
30:B4:50:VAL:O	30:B4:51:ASP:CB	2.53	0.56
25:CY:15:ILE:HB	25:CY:104:ALA:HA	1.86	0.56
52:BU:83:LEU:HG	52:BU:88:ILE:HD11	1.86	0.56
50:BS:101:LEU:C	50:BS:101:LEU:HD12	2.26	0.56
1:AA:793:U:H3'	1:AA:794:A:C5'	2.20	0.56
32:D6:10:LEU:HD12	34:D8:34:TRP:HB2	1.87	0.56
31:B5:55:ARG:O	31:B5:56:LYS:CB	2.52	0.56
49:BR:97:VAL:HA	49:BR:113:LEU:O	2.05	0.56
36:BA:84:A:C5'	56:BY:9:LYS:HZ2	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:13:VAL:HG23	56:BY:73:ARG:C	2.26	0.56
45:BN:67:LEU:HD22	45:BN:87:LEU:HB3	1.88	0.56
25:CY:655:TYR:CZ	25:CY:659:LEU:HB2	2.41	0.56
49:BR:73:VAL:O	49:BR:76:VAL:HG12	2.05	0.56
25:CY:530:VAL:O	25:CY:531:GLY:C	2.44	0.56
45:BN:120:LEU:CD1	45:BN:122:VAL:HG23	2.36	0.56
36:BA:2787:C:H1'	40:BE:61:ARG:HG3	1.88	0.56
31:B5:36:CYS:SG	31:B5:38:ALA:HB3	2.46	0.56
40:BE:36:ARG:NH2	40:BE:88:GLY:N	2.53	0.56
39:DD:155:LEU:N	39:DD:155:LEU:HD12	2.21	0.56
25:CY:282:SER:O	25:CY:286:ILE:HD13	2.06	0.56
42:BG:53:LEU:N	42:BG:53:LEU:CD2	2.68	0.56
1:CA:931:C:H1'	1:CA:1387:G:N2	2.21	0.56
20:CT:45:GLN:HB2	20:CT:91:LEU:HD22	1.86	0.56
19:AS:62:ILE:HG23	19:AS:62:ILE:O	2.04	0.56
31:B5:58:LEU:HD13	31:B5:59:GLU:N	2.21	0.56
56:BY:10:GLY:HA2	56:BY:27:VAL:HG13	1.87	0.56
45:BN:109:LYS:HE3	45:BN:109:LYS:H	1.69	0.56
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.43	0.56
1:CA:165:C:O2'	1:CA:166:G:H5'	2.05	0.56
48:BQ:76:LYS:HB3	48:BQ:91:GLU:HG3	1.88	0.56
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	2.20	0.56
45:DN:38:HIS:O	52:DU:67:ALA:HB1	2.06	0.56
47:BP:79:ARG:O	47:BP:111:ARG:HB2	2.05	0.56
36:BA:2832:U:H1'	36:BA:2834:G:C2	2.40	0.56
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.34	0.56
1:AA:1308:U:H5''	13:AM:98:VAL:HG23	1.86	0.56
43:DH:105:LEU:N	43:DH:105:LEU:HD23	2.21	0.56
36:DA:2555:U:H2'	36:DA:2556:C:H5'	1.86	0.56
57:BZ:48:PHE:CE1	57:BZ:52:SER:HA	2.41	0.56
43:BH:117:PRO:HB3	43:BH:123:PHE:CE2	2.40	0.56
42:DG:53:LEU:N	42:DG:53:LEU:HD22	2.21	0.56
36:DA:1047:G:H22	36:DA:1110:G:H1'	1.71	0.56
36:DA:945:A:O2'	36:DA:946:G:H4'	2.06	0.56
41:DF:17:ARG:HG3	41:DF:17:ARG:NH1	2.21	0.56
41:DF:195:ASP:HB3	41:DF:198:ALA:CB	2.36	0.56
28:D2:4:SER:HA	28:D2:7:ARG:NH1	2.05	0.56
15:CO:17:ARG:CD	15:CO:26:GLU:HG3	2.26	0.56
25:AY:610:VAL:HG11	25:AY:655:TYR:OH	2.05	0.56
36:DA:274:G:O2'	36:DA:275:G:H5''	2.05	0.56
25:CY:620:VAL:O	25:CY:624:LEU:HD22	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:70:VAL:HG12	51:BT:71:GLY:N	2.20	0.56
42:BG:152:LEU:CD2	42:BG:152:LEU:H	2.14	0.56
45:BN:132:ALA:O	45:BN:133:GLN:HB2	2.05	0.56
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.31	0.56
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.05	0.56
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.70	0.56
56:DY:59:GLY:O	56:DY:60:PHE:HB2	2.05	0.56
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.87	0.56
26:B0:10:THR:HG21	36:BA:2277:G:OP2	2.05	0.56
36:DA:799:G:C3'	36:DA:800:A:H5''	2.34	0.56
12:AL:28:LYS:O	12:AL:30:ALA:N	2.39	0.56
36:DA:1718:G:H5'	36:DA:1718:G:C8	2.35	0.56
40:BE:59:VAL:CG2	40:BE:63:LEU:HA	2.36	0.56
36:DA:2682:U:O4	36:DA:2728:U:H1'	2.06	0.56
36:BA:11:G:H22	36:BA:2628:C:P	2.28	0.56
29:B3:59:VAL:CG1	29:B3:60:GLU:N	2.69	0.56
1:AA:109:A:C6	1:AA:326:G:C6	2.94	0.56
34:B8:25:MET:HG3	47:BP:64:LYS:HB2	1.88	0.56
36:DA:2122:U:H2'	36:DA:2123:G:H8	1.70	0.56
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.87	0.56
26:B0:7:LEU:CD2	48:BQ:81:VAL:HG23	2.35	0.56
56:BY:55:TYR:CD1	56:BY:55:TYR:N	2.72	0.56
1:AA:487:A:H2'	1:AA:488:C:O4'	2.06	0.56
27:D1:92:LYS:HE2	36:DA:153:C:OP1	2.05	0.56
41:DF:65:TRP:HZ3	41:DF:75:HIS:HD2	1.53	0.56
36:DA:1395:A:H4'	36:DA:1397:U:C5	2.40	0.56
53:BV:99:ILE:N	53:BV:99:ILE:HD13	2.21	0.56
45:DN:51:PHE:HD1	45:DN:51:PHE:H	1.54	0.56
36:BA:2092:U:H4'	36:BA:2093:G:O5'	2.05	0.56
36:DA:303:U:H2'	36:DA:304:G:C8	2.40	0.56
2:CB:167:PRO:HG2	2:CB:192:SER:OG	2.05	0.56
25:CY:115:GLU:OE2	25:CY:152:THR:HG21	2.05	0.56
2:CB:165:VAL:CG2	2:CB:166:ASP:H	2.05	0.56
45:DN:46:VAL:O	45:DN:47:ALA:CB	2.52	0.56
36:DA:814:C:H2'	36:DA:815:C:H6	1.71	0.56
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.71	0.56
53:DV:18:LEU:HD13	53:DV:19:LYS:N	2.21	0.56
31:D5:3:LYS:HG2	36:DA:747:U:O4	2.05	0.56
25:AY:165:GLN:NE2	25:AY:177:ILE:HG21	2.21	0.56
47:BP:127:ALA:C	47:BP:148:LEU:HD11	2.26	0.56
36:DA:2186:G:H2'	36:DA:2187:G:H5''	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1204:A:N6	36:DA:1240:U:H2'	2.20	0.56
20:CT:47:GLY:O	20:CT:49:ALA:N	2.27	0.56
28:B2:63:VAL:HA	28:B2:66:GLU:HG2	1.87	0.56
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.59	0.56
40:BE:199:ARG:NH1	40:BE:199:ARG:HB2	2.20	0.56
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	2.89	0.56
57:DZ:61:LEU:C	57:DZ:63:ASP:H	2.09	0.56
13:CM:52:GLU:HA	13:CM:55:ARG:HD3	1.87	0.56
41:BF:192:LEU:C	41:BF:192:LEU:HD23	2.26	0.56
34:B8:5:LYS:HG2	36:BA:242:G:C8	2.41	0.56
39:BD:158:ALA:O	39:BD:196:VAL:HG11	2.05	0.56
38:BC:138:LEU:HD13	38:BC:138:LEU:C	2.25	0.56
54:BW:29:LEU:HD13	54:BW:51:LEU:HD11	1.87	0.56
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.71	0.56
1:CA:957:U:O2	1:CA:959:A:H8	1.88	0.56
56:DY:86:ARG:HB3	56:DY:88:LYS:HZ1	1.68	0.56
1:AA:1375:A:OP1	7:AG:12:LEU:HD21	2.05	0.56
42:BG:55:LYS:HD3	42:BG:55:LYS:O	2.05	0.56
55:BX:70:LEU:C	55:BX:70:LEU:HD23	2.26	0.56
5:CE:33:VAL:CG1	5:CE:112:LEU:HD12	2.36	0.56
39:DD:31:LYS:HZ2	39:DD:33:LEU:HB2	1.69	0.56
57:BZ:145:GLU:OE1	57:BZ:146:ILE:HD13	2.04	0.56
36:BA:2300:G:H2'	36:BA:2301:C:C6	2.41	0.56
36:BA:2428:G:H5''	36:BA:2429:G:OP1	2.06	0.56
26:D0:5:LYS:HB3	26:D0:5:LYS:NZ	2.21	0.56
1:CA:382:A:H2'	1:CA:383:A:H8	1.70	0.56
12:AL:60:LEU:HD21	12:AL:66:VAL:HG22	1.88	0.56
36:DA:1461:G:H2'	36:DA:1462:C:H6	1.70	0.56
3:AC:49:SER:HB2	3:AC:75:VAL:HG11	1.88	0.56
30:B4:22:ILE:N	30:B4:22:ILE:HD12	2.21	0.56
33:B7:10:ARG:HH12	33:B7:14:LYS:HE3	1.70	0.56
25:CY:210:ARG:O	25:CY:214:GLU:HG2	2.06	0.56
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.14	0.56
25:AY:485:GLU:CG	25:AY:558:PHE:H	2.19	0.56
32:B6:5:VAL:HG12	32:B6:6:ARG:N	2.21	0.56
23:CW:4:G:O2'	23:CW:5:G:H8	1.89	0.56
25:AY:237:PRO:HB2	25:AY:242:LEU:HG	1.87	0.56
2:CB:51:LEU:CD2	2:CB:55:PHE:HE2	2.19	0.56
40:DE:50:GLY:HA3	40:DE:74:PRO:HG3	1.88	0.56
37:DB:40:U:O2	37:DB:43:C:H5''	2.06	0.56
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:583:G:H2'	36:BA:584:C:C6	2.40	0.56
51:BT:30:VAL:CG2	51:BT:84:GLN:H	2.18	0.56
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.88	0.56
36:BA:2469:A:H2	36:BA:2481:G:N2	2.02	0.56
36:BA:1028:A:N6	36:BA:1125:G:H2'	2.21	0.56
36:DA:2183:C:O2'	36:DA:2184:G:H5'	2.06	0.56
42:BG:10:LYS:HE2	42:BG:14:GLU:OE2	2.06	0.56
29:D3:26:LEU:HB3	29:D3:28:LEU:HD21	1.88	0.56
35:B9:29:ASN:HD22	35:B9:29:ASN:H	1.54	0.56
9:AI:40:LEU:C	9:AI:42:ARG:H	2.09	0.56
1:AA:512:U:H2'	1:AA:513:C:H6	1.71	0.56
36:BA:883:G:O2'	36:BA:884:C:H5'	2.06	0.56
7:AG:80:VAL:HG21	7:AG:83:ALA:HB3	1.87	0.56
39:BD:205:VAL:HG12	39:BD:205:VAL:O	2.05	0.56
36:BA:1791:A:H5'	39:BD:206:LEU:HD12	1.87	0.56
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.87	0.56
36:BA:1523:U:H2'	36:BA:1524:G:H8	1.68	0.56
36:BA:1639:U:O2'	36:BA:1640:C:H5''	2.06	0.56
27:D1:82:LEU:C	27:D1:83:GLU:HG3	2.25	0.56
36:DA:1185:C:H5'	36:DA:1186:G:P	2.46	0.56
7:CG:140:ASP:HA	7:CG:143:ARG:NH1	2.21	0.56
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.04	0.56
57:BZ:145:GLU:O	57:BZ:146:ILE:C	2.44	0.56
1:AA:405:U:H3'	1:AA:406:G:H5'	1.88	0.56
22:CV:64:A:H2'	22:CV:65:G:H8	1.70	0.56
11:AK:33:THR:HA	11:AK:40:ILE:HG12	1.87	0.56
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.87	0.56
36:BA:1274:A:N3	36:BA:1297:C:H1'	2.20	0.56
36:BA:303:U:H2'	36:BA:304:G:C8	2.41	0.56
55:BX:26:TYR:O	55:BX:81:VAL:HG22	2.06	0.56
50:DS:48:LEU:N	50:DS:48:LEU:HD12	2.21	0.56
36:DA:2428:G:H5''	36:DA:2429:G:OP1	2.06	0.56
10:AJ:29:ARG:CZ	10:AJ:29:ARG:HB3	2.35	0.56
38:DC:121:MET:O	38:DC:125:GLY:N	2.35	0.56
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.03	0.56
42:DG:43:LEU:HD22	42:DG:43:LEU:N	2.20	0.56
25:CY:438:PHE:HB3	25:CY:458:HIS:NE2	2.19	0.56
3:AC:50:ALA:HB1	3:AC:70:VAL:CG1	2.35	0.56
36:BA:2723:C:C5'	49:BR:2:ARG:NH1	2.66	0.56
32:B6:27:LYS:O	32:B6:27:LYS:CD	2.52	0.56
41:BF:17:ARG:HG3	41:BF:17:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:102:ARG:NH1	47:DP:102:ARG:HB3	2.20	0.56
51:BT:102:ILE:HB	51:BT:110:ILE:CD1	2.36	0.56
41:DF:185:ASP:HA	41:DF:188:ARG:HD3	1.88	0.56
36:DA:675:A:OP1	41:DF:76:GLY:HA2	2.05	0.56
34:D8:48:PHE:C	34:D8:49:VAL:HG22	2.26	0.56
23:AW:22:G:H2'	23:AW:23:C:H5''	1.84	0.56
43:DH:173:PRO:O	43:DH:175:LYS:N	2.39	0.56
42:BG:53:LEU:HD22	42:BG:53:LEU:H	1.67	0.56
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.79	0.56
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.69	0.56
27:D1:23:LYS:HE2	27:D1:28:GLY:HA3	1.87	0.56
40:BE:59:VAL:HG21	40:BE:63:LEU:HA	1.87	0.56
36:BA:1717:G:C3'	36:BA:1718:G:H5''	2.36	0.56
1:AA:1342:C:H1'	9:AI:124:GLN:HG3	1.88	0.56
4:AD:129:ASN:H	4:AD:129:ASN:HD22	1.54	0.56
56:DY:30:VAL:HG12	56:DY:31:LEU:N	2.21	0.56
38:DC:186:LEU:O	38:DC:190:ILE:HG12	2.05	0.56
36:DA:2172:U:H1'	36:DA:2173:A:OP1	2.06	0.56
7:CG:139:GLU:O	7:CG:143:ARG:HG3	2.06	0.56
37:BB:22:U:H2'	37:BB:23:G:C8	2.40	0.56
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.87	0.56
36:BA:139(A):G:N2	55:BX:44:GLU:OE2	2.39	0.56
33:D7:10:ARG:NH1	33:D7:14:LYS:HE3	2.21	0.56
1:AA:865:A:C2	1:AA:918:A:H4'	2.41	0.56
36:DA:1101:U:H2'	36:DA:1102:C:C6	2.41	0.56
53:BV:2:PHE:CE1	53:BV:13:ARG:NH1	2.73	0.56
23:CW:56:C:H2'	23:CW:56:C:O2	2.06	0.56
6:CF:98:LEU:HD13	6:CF:101:ALA:HB2	1.86	0.56
55:BX:60:ARG:HA	55:BX:75:ASP:OD2	2.05	0.56
36:DA:426:C:O2'	36:DA:427:U:H5'	2.05	0.56
9:CI:3:GLN:NE2	9:CI:20:ARG:HH21	2.03	0.56
3:AC:20:SER:HB3	3:AC:40:ARG:NH2	2.21	0.56
27:D1:20:ARG:HH11	27:D1:20:ARG:HG2	1.71	0.56
36:DA:2113:U:H2'	36:DA:2114:A:H8	1.71	0.56
36:DA:1473:G:H2'	36:DA:1474:C:O4'	2.06	0.56
20:CT:55:ILE:O	20:CT:58:LYS:HB3	2.06	0.56
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.06	0.56
55:DX:68:ARG:HD3	55:DX:68:ARG:O	2.05	0.56
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.71	0.56
22:AV:35:A:H2'	22:AV:36:A:H8	1.70	0.55
36:BA:769:G:H2'	36:BA:770:G:H8	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:20:HIS:HA	25:AY:87:HIS:CD2	2.42	0.55
25:AY:21:ILE:HG23	25:AY:88:VAL:HG13	1.88	0.55
25:CY:208:GLN:O	25:CY:211:GLU:HG2	2.06	0.55
36:BA:2483:C:C3'	36:BA:2484:G:H5''	2.23	0.55
53:BV:19:LYS:CE	53:BV:20:LEU:H	2.19	0.55
30:B4:1:MET:HE2	42:BG:66:GLN:OE1	2.06	0.55
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.21	0.55
40:BE:119:ARG:HG2	40:BE:160:TYR:HB2	1.88	0.55
34:B8:32:LEU:O	34:B8:33:ASN:O	2.23	0.55
53:DV:18:LEU:CG	53:DV:19:LYS:H	2.19	0.55
53:DV:19:LYS:CE	53:DV:20:LEU:H	2.19	0.55
36:BA:1019:U:HO2'	36:BA:1021:A:H2	1.50	0.55
31:D5:56:LYS:CG	31:D5:57:VAL:H	1.98	0.55
49:DR:97:VAL:O	49:DR:98:LEU:HD23	2.06	0.55
47:DP:81:GLN:HG2	47:DP:106:LEU:HA	1.88	0.55
3:CC:58:GLU:O	3:CC:59:ARG:HG3	2.05	0.55
36:BA:27:G:O2'	36:BA:28:A:H8	1.80	0.55
25:AY:463:VAL:O	25:AY:467:LYS:HB3	2.06	0.55
25:AY:9:LEU:CD1	25:AY:284:LEU:HD13	2.36	0.55
51:DT:80:SER:CB	51:DT:81:PRO:CD	2.84	0.55
36:DA:1539:G:N3	36:DA:1540:U:H1'	2.21	0.55
42:BG:73:ALA:H	42:BG:87:PRO:CG	2.18	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.21	0.55
43:DH:46:GLU:OE1	43:DH:51:ARG:HB2	2.06	0.55
1:AA:1404:C:H5'	1:AA:1405:G:OP2	2.06	0.55
39:BD:145:VAL:HG12	39:BD:146:GLU:O	2.06	0.55
2:AB:12:GLU:HB3	2:AB:16:HIS:HB2	1.88	0.55
9:AI:55:ALA:HA	9:AI:58:HIS:CD2	2.41	0.55
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.88	0.55
1:CA:1342:C:H1'	9:CI:124:GLN:HG3	1.88	0.55
54:BW:6:ILE:HA	54:BW:103:ILE:O	2.06	0.55
38:BC:22:THR:HB	38:BC:229:SER:HB2	1.86	0.55
36:DA:118:A:N3	36:DA:178:G:H1'	2.21	0.55
1:CA:1420:C:H42	1:CA:1480:G:H1	1.54	0.55
47:BP:122:PRO:HG3	47:BP:141:ALA:HB3	1.87	0.55
36:DA:1169:G:H1	36:DA:1180:C:N4	2.04	0.55
1:CA:956:U:O2'	1:CA:957:U:H5'	2.05	0.55
36:BA:2408:U:H2'	36:BA:2409:G:H8	1.71	0.55
25:AY:314:PHE:HD1	25:AY:315:LYS:HB2	1.71	0.55
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	1.88	0.55
36:BA:533:G:H5''	52:BU:24:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1510:G:O2'	36:BA:1511:C:H5'	2.06	0.55
43:DH:104:GLU:HA	43:DH:113:VAL:O	2.06	0.55
53:BV:32:THR:HG22	53:BV:33:VAL:N	2.21	0.55
8:AH:114:THR:HG22	8:AH:130:GLY:O	2.05	0.55
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.71	0.55
17:CQ:4:LYS:HG3	17:CQ:6:LEU:HD21	1.87	0.55
36:DA:810:U:OP1	36:DA:1253:A:N7	2.38	0.55
57:BZ:82:ARG:O	57:BZ:83:PRO:C	2.44	0.55
6:AF:28:ARG:O	6:AF:32:ASN:HB2	2.06	0.55
57:DZ:59:LEU:O	57:DZ:66:SER:HA	2.06	0.55
36:BA:1584:C:H5'	36:BA:1586:A:OP2	2.05	0.55
36:DA:2759:G:O2'	36:DA:2760:C:H5'	2.06	0.55
44:BJ:73:UNK:C	44:BJ:75:UNK:N	2.67	0.55
53:DV:99:ILE:HD13	53:DV:99:ILE:N	2.21	0.55
39:BD:275:LYS:O	39:BD:275:LYS:HD2	2.06	0.55
36:BA:229:A:H8	36:BA:229:A:OP1	1.89	0.55
36:DA:116:C:H1'	36:DA:127:A:H1'	1.88	0.55
37:DB:66:A:H61	37:DB:108:U:H2'	1.71	0.55
27:B1:87:PRO:HG2	27:B1:88:LYS:H	1.70	0.55
43:BH:159:GLU:O	43:BH:160:LYS:O	2.23	0.55
41:BF:165:ARG:HH11	41:BF:165:ARG:HB3	1.71	0.55
36:DA:2733:A:O2'	36:DA:2734:A:H5'	2.06	0.55
1:AA:1358:U:P	14:AN:35:ARG:HG3	2.45	0.55
42:DG:83:ARG:HD2	42:DG:83:ARG:H	1.70	0.55
50:DS:28:VAL:CG1	50:DS:29:PHE:H	2.14	0.55
32:D6:9:LEU:HD22	32:D6:9:LEU:C	2.27	0.55
25:AY:487:ILE:HG21	25:AY:594:VAL:HA	1.88	0.55
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.88	0.55
41:BF:7:TYR:HD2	41:BF:16:GLY:CA	2.17	0.55
36:BA:1301:A:HO2'	36:BA:1302:A:H2'	1.69	0.55
32:D6:13:CYS:HB3	32:D6:49:HIS:HB3	1.88	0.55
39:DD:241:PRO:O	39:DD:242:ARG:CB	2.54	0.55
47:DP:83:VAL:HB	47:DP:105:LEU:HD22	1.86	0.55
25:AY:423:LYS:O	25:AY:427:ALA:HB2	2.07	0.55
36:DA:2186:G:C2'	36:DA:2187:G:H5''	2.36	0.55
25:AY:513:LYS:HB3	25:AY:566:THR:HB	1.86	0.55
36:DA:1815:A:OP2	36:DA:1822:G:H5''	2.06	0.55
43:BH:156:ALA:O	43:BH:158:HIS:N	2.37	0.55
6:AF:33:TYR:HA	6:AF:71:ARG:HH21	1.66	0.55
36:DA:2787:C:H2'	36:DA:2787:C:O2	2.05	0.55
47:DP:48:PRO:O	47:DP:50:ARG:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2787:C:O2	36:BA:2787:C:H2'	2.05	0.55
51:BT:57:PHE:C	51:BT:58:ASN:HD22	2.10	0.55
51:BT:80:SER:CB	51:BT:81:PRO:CD	2.83	0.55
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.89	0.55
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.06	0.55
36:BA:1464:C:O2'	36:BA:1528:A:C8	2.58	0.55
39:DD:267:SER:CA	39:DD:270:ILE:HD11	2.36	0.55
25:AY:265:LYS:HB3	25:AY:267:LYS:HE3	1.88	0.55
7:CG:75:VAL:HG11	7:CG:86:GLN:HB3	1.88	0.55
36:BA:2876:G:C4'	51:BT:3:ARG:HE	2.17	0.55
36:BA:2672:G:C3'	36:BA:2673:G:H5''	2.35	0.55
43:DH:83:TYR:O	43:DH:84:SER:HB3	2.05	0.55
25:AY:149:VAL:CA	25:AY:152:THR:HG22	2.36	0.55
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.71	0.55
51:BT:42:ILE:O	51:BT:42:ILE:HG13	2.06	0.55
41:DF:192:LEU:C	41:DF:192:LEU:HD23	2.26	0.55
36:DA:560:C:H4'	52:DU:52:ARG:CZ	2.35	0.55
34:D8:62:LEU:N	34:D8:63:PRO:CD	2.69	0.55
57:DZ:42:VAL:HG13	57:DZ:43:GLU:N	2.21	0.55
36:BA:2107:C:H42	36:BA:2182:G:H1	1.52	0.55
19:AS:19:VAL:HG11	19:AS:44:MET:HG2	1.88	0.55
36:BA:145:G:H2'	36:BA:146:G:H8	1.72	0.55
43:BH:19:VAL:O	43:BH:20:ALA:HB2	2.06	0.55
39:BD:218:ARG:HB3	39:BD:219:PRO:HD2	1.88	0.55
1:CA:821:G:O2'	1:CA:822:C:H5'	2.05	0.55
46:DO:14:THR:CB	46:DO:86:ILE:HD13	2.36	0.55
48:DQ:76:LYS:HB3	48:DQ:91:GLU:HG3	1.86	0.55
16:CP:9:PHE:HE2	16:CP:18:ARG:NE	2.03	0.55
41:BF:110:LEU:HD12	41:BF:206:ILE:HD11	1.88	0.55
26:B0:50:ASN:HA	26:B0:62:LEU:HD12	1.86	0.55
42:DG:122:PRO:HG2	42:DG:123:ASN:OD1	2.06	0.55
25:AY:5:VAL:HG13	25:AY:6:GLU:H	1.70	0.55
1:AA:36:C:H4'	12:AL:122:THR:O	2.06	0.55
22:CV:68:C:H2'	22:CV:69:G:H8	1.70	0.55
36:BA:250:G:H2'	36:BA:251:A:C8	2.41	0.55
1:AA:635:G:O2'	1:AA:636:U:H5'	2.05	0.55
23:CW:54:5MU:H2'	23:CW:55:U:O4'	2.06	0.55
40:DE:8:LYS:O	40:DE:193:GLY:N	2.37	0.55
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.41	0.55
2:AB:235:SER:O	2:AB:237:ALA:N	2.35	0.55
2:AB:236:TYR:CD2	2:AB:239:VAL:HG21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:116:C:H1'	36:BA:127:A:H1'	1.88	0.55
55:BX:68:ARG:O	55:BX:68:ARG:HD3	2.06	0.55
46:BO:91:LEU:N	46:BO:91:LEU:HD22	2.21	0.55
42:DG:52:ILE:HG22	42:DG:54:GLU:H	1.71	0.55
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.88	0.55
28:D2:2:LYS:HA	28:D2:5:GLU:OE1	2.07	0.55
39:BD:130:ALA:C	39:BD:131:LEU:HD12	2.26	0.55
45:BN:94:HIS:N	45:BN:95:PRO:CD	2.69	0.55
32:D6:37:ARG:HH22	36:DA:2286:A:H62	1.51	0.55
36:BA:2346:A:C2	36:BA:2383:G:C2	2.94	0.55
36:DA:1142(A):A:O2'	36:DA:1143:A:H2'	2.06	0.55
51:DT:125:ARG:HA	51:DT:125:ARG:NH1	2.10	0.55
25:AY:460:GLU:O	25:AY:463:VAL:HB	2.05	0.55
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.40	0.55
41:BF:185:ASP:CA	41:BF:188:ARG:HG2	2.34	0.55
39:DD:30:GLU:HB2	39:DD:35:LYS:HZ2	1.71	0.55
27:D1:76:ARG:HH22	27:D1:95:LEU:HD22	1.70	0.55
45:DN:132:ALA:O	45:DN:133:GLN:HB2	2.06	0.55
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.69	0.55
47:DP:58:THR:C	47:DP:61:ARG:HE	2.07	0.55
23:CW:30:G:H2'	23:CW:31:G:C5'	2.31	0.55
39:DD:238:GLY:O	39:DD:239:ARG:O	2.24	0.55
9:AI:5:TYR:HD1	9:AI:6:GLY:H	1.47	0.55
1:AA:738:C:H2'	1:AA:739:C:H6	1.71	0.55
4:CD:10:ARG:O	4:CD:13:ARG:HB2	2.07	0.55
48:BQ:56:ARG:HE	48:BQ:56:ARG:HA	1.72	0.55
36:BA:978:G:C2	36:BA:986:C:N3	2.74	0.55
19:AS:13:ASP:C	19:AS:15:LEU:N	2.59	0.55
1:AA:697:U:C2'	1:AA:698:G:H5'	2.33	0.55
26:D0:20:ARG:CD	26:D0:20:ARG:H	2.19	0.55
35:B9:29:ASN:O	35:B9:29:ASN:ND2	2.40	0.55
36:DA:216:A:O2'	36:DA:217:G:H5'	2.06	0.55
28:B2:28:LYS:NZ	28:B2:56:GLN:HE22	2.04	0.55
36:BA:903:C:H2'	36:BA:904:C:C5'	2.35	0.55
56:BY:30:VAL:HG12	56:BY:31:LEU:N	2.21	0.55
4:CD:61:LYS:HD3	4:CD:206:PHE:CD2	2.41	0.55
40:BE:98:PRO:CG	40:BE:175:VAL:HG12	2.36	0.55
49:BR:56:LYS:HE3	49:BR:94:TYR:CE2	2.40	0.55
36:BA:2172:U:H1'	36:BA:2173:A:OP1	2.06	0.55
42:BG:126:ASP:OD2	42:BG:130:ASN:HB2	2.06	0.55
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:181:ARG:HG3	42:DG:181:ARG:HH11	1.70	0.55
1:AA:992:U:H4'	1:AA:993:G:O5'	2.05	0.55
1:AA:382:A:H2'	1:AA:383:A:C8	2.41	0.55
36:DA:1316:U:H2'	36:DA:1317:A:H8	1.71	0.55
36:DA:1056:G:H4'	36:DA:1086:A:H8	1.71	0.55
1:AA:8:A:N6	4:AD:209:ARG:HB2	2.21	0.55
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.06	0.55
4:AD:33:MET:O	4:AD:37:PRO:HG3	2.07	0.55
4:CD:152:SER:O	4:CD:155:LEU:HG	2.05	0.55
36:BA:1847:A:H3'	36:BA:1848:A:H5'	1.88	0.55
36:DA:1270:C:H5''	36:DA:1271:G:O5'	2.06	0.55
36:DA:2203:U:O2'	39:DD:151:LYS:HE3	2.06	0.55
38:DC:65:LEU:HD13	38:DC:189:ASN:ND2	2.22	0.55
38:BC:29:LEU:O	38:BC:29:LEU:HD23	2.05	0.55
6:CF:36:ARG:NH1	6:CF:36:ARG:HB3	2.21	0.55
25:CY:438:PHE:HD1	25:CY:438:PHE:O	1.90	0.55
25:AY:15:ILE:O	25:AY:15:ILE:HD12	2.05	0.55
43:BH:173:PRO:O	43:BH:175:LYS:N	2.40	0.55
25:CY:489:LYS:HG2	25:CY:598:ASP:CB	2.34	0.55
30:B4:8:LYS:O	30:B4:9:LEU:HB2	2.07	0.55
42:BG:61:ALA:CA	42:BG:64:THR:HG22	2.30	0.55
53:DV:49:THR:O	53:DV:50:PRO:C	2.44	0.55
39:BD:142:VAL:HG23	39:BD:192:THR:O	2.06	0.55
32:D6:16:CYS:O	32:D6:17:LYS:C	2.45	0.55
28:B2:38:GLN:C	28:B2:40:SER:H	2.10	0.55
25:AY:213:HIS:O	25:AY:217:VAL:HG23	2.06	0.55
46:DO:69:ILE:HD13	46:DO:77:ILE:HG23	1.88	0.55
36:BA:2186:G:H2'	36:BA:2187:G:H5''	1.87	0.55
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.53	0.55
37:DB:105:A:P	57:DZ:72:ARG:HH12	2.30	0.55
38:BC:71:LYS:CG	38:BC:72:GLN:H	2.14	0.55
45:BN:55:VAL:HG21	45:BN:127:ASP:N	2.22	0.55
42:BG:71:THR:N	42:BG:89:GLY:O	2.39	0.55
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.21	0.55
45:DN:55:VAL:HG21	45:DN:127:ASP:N	2.21	0.55
55:DX:26:TYR:O	55:DX:81:VAL:HG22	2.06	0.55
36:BA:2199:A:H3'	36:BA:2200:C:H6	1.71	0.55
51:DT:129:ARG:HG2	51:DT:129:ARG:O	2.06	0.55
18:AR:44:LEU:HD22	18:AR:79:LEU:HD22	1.89	0.55
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.69	0.55
5:CE:91:LEU:HA	5:CE:120:THR:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:14:ILE:HG13	3:CC:15:THR:H	1.71	0.55
9:CI:53:VAL:CG2	9:CI:55:ALA:HB3	2.34	0.55
36:DA:2105:C:N4	36:DA:2184:G:H1	2.03	0.55
36:BA:2728:U:O2'	36:BA:2729:G:H5'	2.07	0.55
35:D9:17:ILE:HG22	35:D9:18:ARG:H	1.70	0.55
43:DH:19:VAL:O	43:DH:20:ALA:HB2	2.06	0.55
1:CA:275:G:H2'	1:CA:276:G:C8	2.41	0.55
36:BA:118:A:N3	36:BA:178:G:H1'	2.21	0.55
45:DN:109:LYS:H	45:DN:109:LYS:HE2	1.71	0.55
42:BG:133:LEU:HD12	42:BG:133:LEU:C	2.26	0.55
36:DA:528:A:C2	36:DA:2043:C:C5'	2.89	0.55
27:B1:45:ASN:ND2	27:B1:47:GLN:HE21	2.04	0.55
37:DB:20:C:C2'	37:DB:21:G:H5''	2.36	0.55
40:BE:108:SER:O	40:BE:162:ALA:HA	2.07	0.55
53:BV:66:ARG:HG2	53:BV:88:ARG:HE	1.71	0.55
6:CF:14:LEU:HD22	6:CF:18:GLN:HE21	1.70	0.55
36:DA:321:G:C2	36:DA:341:G:H4'	2.41	0.55
23:CW:53:G:O2'	23:CW:54:5MU:H5''	2.07	0.55
52:DU:104:GLN:HB3	53:DV:44:LYS:NZ	2.21	0.55
2:CB:236:TYR:CD2	2:CB:239:VAL:HG21	2.41	0.55
42:BG:170:ARG:HH21	42:BG:180:PHE:HB3	1.72	0.55
52:BU:113:ALA:C	52:BU:115:ALA:H	2.08	0.55
52:BU:85:LYS:HD3	52:BU:117:GLN:HE22	1.70	0.55
21:CU:3:LYS:HB3	21:CU:14:TRP:CD1	2.41	0.55
28:D2:40:SER:C	28:D2:42:GLY:H	2.10	0.55
32:B6:33:LYS:HG2	32:B6:34:LEU:H	1.70	0.55
38:BC:121:MET:O	38:BC:125:GLY:N	2.37	0.55
53:BV:18:LEU:CG	53:BV:19:LYS:H	2.19	0.55
29:D3:9:VAL:O	29:D3:31:LEU:HD21	2.06	0.55
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.36	0.55
30:B4:1:MET:HE3	42:BG:66:GLN:CD	2.27	0.55
32:B6:54:ILE:HD13	36:BA:2420:C:H5'	1.88	0.55
31:D5:56:LYS:HG3	31:D5:57:VAL:N	2.06	0.55
36:DA:1019:U:O2'	36:DA:1021:A:H2	1.88	0.55
36:BA:648:G:H2'	36:BA:649:G:C8	2.41	0.55
51:DT:28:VAL:HG21	51:DT:46:GLU:OE1	2.07	0.55
36:BA:512:G:HO2'	36:BA:513:A:H8	1.54	0.55
51:DT:50:ILE:HA	51:DT:99:LEU:CD1	2.36	0.55
50:DS:24:LEU:CB	50:DS:85:VAL:HG12	2.33	0.55
36:DA:195:A:H5''	36:DA:196:A:OP2	2.07	0.55
36:DA:142:A:H8	36:DA:1595:G:H21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:744:G:C2	36:BA:745:G:H1'	2.42	0.55
41:BF:20:LEU:HB3	41:BF:23:ASP:OD2	2.05	0.55
25:CY:316:ILE:HG23	25:CY:326:THR:HG22	1.89	0.55
56:DY:2:ARG:CD	56:DY:3:VAL:HG23	2.36	0.55
7:AG:15:ASP:OD1	7:AG:16:LEU:N	2.39	0.55
36:DA:1669:A:H2'	36:DA:1670:C:H5'	1.89	0.55
27:D1:45:ASN:HD22	27:D1:45:ASN:C	2.08	0.55
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.72	0.55
36:BA:1677:A:H2'	36:BA:1678:G:C8	2.41	0.55
35:B9:17:ILE:HG22	35:B9:18:ARG:N	2.22	0.55
28:B2:17:SER:HB2	28:B2:18:PRO:HD2	1.89	0.55
36:BA:606:U:H2'	36:BA:606:U:O2	2.05	0.55
36:BA:271(F):C:O2'	36:BA:271(G):C:H5'	2.06	0.55
38:DC:176:VAL:HG21	38:DC:190:ILE:HD13	1.89	0.55
41:BF:18:ARG:HG2	41:BF:19:GLU:N	2.20	0.55
36:BA:64:A:C5	55:BX:66:LEU:HD13	2.42	0.55
39:DD:209:ALA:O	39:DD:212:SER:HB2	2.07	0.55
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.89	0.55
36:BA:321:G:C2	36:BA:341:G:H4'	2.41	0.55
39:DD:148:GLU:O	39:DD:151:LYS:HG3	2.06	0.55
36:DA:267:C:H2'	36:DA:268:C:H6	1.71	0.55
42:BG:25:TYR:HD1	42:BG:30:GLU:HG2	1.71	0.55
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.87	0.55
1:CA:812:C:HO2'	1:CA:813:U:P	2.29	0.55
14:CN:44:LEU:HD12	14:CN:44:LEU:O	2.07	0.55
5:AE:71:LEU:HD11	5:AE:114:GLY:HA3	1.88	0.55
47:BP:32:THR:HG21	47:BP:37:GLY:HA2	1.89	0.55
38:BC:85:LYS:O	38:BC:89:GLU:HG3	2.06	0.55
6:CF:38:GLU:O	6:CF:39:LYS:O	2.25	0.55
1:AA:902:G:O2'	1:AA:903:G:H5'	2.07	0.55
42:DG:31:VAL:O	42:DG:33:ARG:HD3	2.06	0.55
25:AY:124:GLN:C	25:AY:127:LYS:HB3	2.27	0.55
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.21	0.55
25:CY:171:GLU:O	25:CY:174:PHE:HB2	2.06	0.55
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.02	0.55
36:BA:1345:C:H42	36:BA:1601:G:H1	1.55	0.55
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.36	0.55
57:DZ:10:ARG:HB3	57:DZ:36:LYS:CB	2.36	0.55
34:B8:33:ASN:HA	34:B8:36:LYS:CD	2.37	0.55
32:D6:45:LYS:HG2	36:DA:2371:G:H4'	1.89	0.55
49:BR:38:VAL:CB	49:BR:39:PRO:HD3	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:35:LYS:CG	39:BD:63:ARG:HG3	2.34	0.55
36:BA:2795:G:N2	36:BA:2796:U:H5	1.97	0.55
47:BP:115:LEU:HA	47:BP:134:ALA:CB	2.36	0.55
51:BT:28:VAL:HG11	51:BT:46:GLU:OE1	2.07	0.55
36:DA:1241:A:H2'	36:DA:1242:A:O4'	2.06	0.55
36:BA:1899:G:O2'	36:BA:1900:A:H5''	2.07	0.55
36:BA:2524:G:C8	36:BA:2524:G:H5'	2.35	0.55
42:BG:152:LEU:HD23	42:BG:152:LEU:N	2.12	0.55
36:BA:2807:G:C3'	36:BA:2808:U:H5''	2.31	0.55
51:BT:35:LYS:HZ3	51:BT:41:ARG:CD	2.20	0.55
31:B5:36:CYS:HG	31:B5:49:CYS:HB3	1.71	0.55
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.41	0.55
39:BD:25:THR:HG22	39:BD:26:LYS:H	1.71	0.55
56:BY:59:GLY:O	56:BY:60:PHE:HB2	2.06	0.55
39:DD:270:ILE:H	39:DD:270:ILE:CD1	2.11	0.55
25:CY:71:THR:HB	25:CY:78:ARG:HH12	1.70	0.55
36:DA:2329:G:H2'	36:DA:2330:G:C8	2.41	0.55
5:AE:12:LEU:HD13	5:AE:12:LEU:O	2.06	0.55
36:DA:2876:G:C4'	51:DT:3:ARG:HE	2.18	0.55
39:BD:155:LEU:N	39:BD:155:LEU:HD12	2.21	0.55
26:D0:12:ASN:O	26:D0:14:ARG:N	2.36	0.55
1:AA:1116:C:C2'	1:AA:1117:G:H5'	2.36	0.55
1:CA:1202:G:C2	14:CN:42:ILE:HG21	2.41	0.55
3:AC:157:ILE:C	3:AC:159:GLY:H	2.10	0.55
36:BA:2681:C:H4'	36:BA:2682:U:H5'	1.89	0.55
1:CA:407:G:O2'	4:CD:116:GLN:HG3	2.06	0.55
9:AI:40:LEU:O	9:AI:42:ARG:N	2.40	0.55
42:DG:129:GLY:O	42:DG:130:ASN:CG	2.44	0.55
35:D9:1:MET:HG3	36:DA:2478:A:OP2	2.07	0.55
36:BA:1789:A:H2'	36:BA:1790:C:O4'	2.06	0.55
20:CT:42:GLN:CA	20:CT:42:GLN:NE2	2.70	0.55
4:CD:61:LYS:CE	4:CD:62:GLN:HE21	2.19	0.55
25:AY:625:ASN:C	25:AY:627:ARG:N	2.60	0.55
27:B1:51:VAL:HG22	27:B1:52:ARG:N	2.21	0.55
1:AA:1319:A:OP1	19:AS:10:PHE:CE1	2.59	0.55
36:DA:1639:U:C2'	36:DA:1640:C:H5''	2.37	0.55
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	1.87	0.55
48:BQ:136:ALA:O	48:BQ:138:ASP:N	2.40	0.55
33:D7:46:VAL:HG12	33:D7:47:ARG:H	1.71	0.55
48:DQ:136:ALA:O	48:DQ:138:ASP:N	2.40	0.55
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:637:ARG:NH1	25:AY:637:ARG:HG3	2.20	0.55
6:CF:36:ARG:HB3	6:CF:36:ARG:CZ	2.36	0.55
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.07	0.55
36:BA:1270:C:H5''	36:BA:1271:G:O5'	2.07	0.55
10:CJ:29:ARG:HB3	10:CJ:29:ARG:CZ	2.35	0.55
38:DC:97:GLY:H	38:DC:100:ILE:HG12	1.71	0.55
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.44	0.55
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.71	0.55
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.21	0.55
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.37	0.55
25:CY:486:THR:HG23	25:CY:600:VAL:CG1	2.37	0.55
48:BQ:27:VAL:O	48:BQ:28:ALA:HB3	2.06	0.55
42:BG:91:ARG:C	42:BG:91:ARG:CD	2.75	0.55
34:D8:32:LEU:O	34:D8:33:ASN:O	2.24	0.55
2:CB:82:ARG:NH1	2:CB:82:ARG:HG3	2.21	0.55
40:BE:131:ALA:HB3	40:BE:134:ILE:HD13	1.88	0.55
47:DP:83:VAL:CB	47:DP:105:LEU:HD22	2.37	0.55
25:CY:606:MET:CE	25:CY:671:MET:HG2	2.27	0.55
25:AY:216:LEU:HD23	25:AY:246:ILE:HD11	1.87	0.55
36:BA:28:A:H62	36:BA:512:G:H1'	1.72	0.55
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.89	0.55
50:DS:24:LEU:HB3	50:DS:85:VAL:CG1	2.29	0.55
34:B8:48:PHE:O	34:B8:49:VAL:HG22	2.07	0.55
36:BA:252:G:OP2	47:BP:50:ARG:NH2	2.40	0.55
25:AY:511:LYS:HB2	25:AY:569:ASP:HB3	1.88	0.55
36:DA:796:C:H2'	36:DA:797:C:H6	1.71	0.55
47:DP:45:LEU:HG	47:DP:46:LYS:H	1.72	0.55
48:DQ:27:VAL:O	48:DQ:28:ALA:HB3	2.07	0.55
23:AW:30:G:H2'	23:AW:31:G:H5'	1.89	0.55
27:B1:29:GLY:O	27:B1:30:VAL:CG2	2.49	0.55
1:AA:424:G:O2'	1:AA:425:G:H5'	2.07	0.55
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.06	0.55
43:DH:44:VAL:O	43:DH:46:GLU:HG2	2.06	0.55
30:D4:50:VAL:O	30:D4:51:ASP:CB	2.55	0.55
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.22	0.55
26:D0:19:LYS:HD3	26:D0:41:ARG:NH2	2.21	0.55
20:CT:11:SER:HA	20:CT:13:LEU:CD1	2.36	0.55
41:DF:53:THR:HG22	41:DF:56:GLU:CG	2.33	0.55
11:CK:99:GLN:CG	11:CK:105:VAL:HG21	2.33	0.55
36:DA:1296:G:H1	36:DA:1644:C:H42	1.54	0.55
9:CI:55:ALA:HA	9:CI:58:HIS:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DW:29:LEU:HD13	54:DW:51:LEU:HD11	1.87	0.55
36:DA:880:G:H2'	36:DA:881:G:H8	1.71	0.55
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.07	0.55
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.71	0.55
40:DE:14:ILE:CD1	40:DE:173:VAL:HG11	2.36	0.55
57:DZ:97:GLU:HA	57:DZ:126:VAL:O	2.07	0.55
36:DA:2168:G:N2	36:DA:2170:A:H3'	2.22	0.55
48:DQ:76:LYS:HB3	48:DQ:91:GLU:HG2	1.87	0.55
33:B7:46:VAL:HG12	33:B7:47:ARG:H	1.71	0.55
41:BF:50:SER:CB	41:BF:94:PRO:HD3	2.36	0.55
1:CA:404:U:H2'	1:CA:405:U:C6	2.42	0.55
1:CA:405:U:H3'	1:CA:406:G:H5'	1.89	0.55
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.10	0.55
6:CF:22:GLU:C	6:CF:24:GLU:H	2.10	0.55
1:AA:1403:C:O2	1:AA:1403:C:H2'	2.07	0.55
36:BA:2203:U:O2'	39:BD:151:LYS:HE3	2.06	0.55
36:DA:2151:G:O2'	36:DA:2152:G:H5'	2.06	0.55
41:DF:22:ALA:HB1	41:DF:26:ALA:HB2	1.87	0.55
36:DA:1401:G:H2'	36:DA:1402:C:O4'	2.07	0.55
36:DA:1935:G:H1'	36:DA:1964:G:N2	2.22	0.55
36:DA:503:A:H4'	36:DA:504:U:H5'	1.87	0.55
1:CA:520:A:N1	1:CA:536:C:H1'	2.22	0.55
30:B4:37:SER:O	30:B4:38:LYS:HB2	2.07	0.55
16:AP:82:GLN:O	16:AP:84:ALA:N	2.40	0.55
36:DA:1847:A:H3'	36:DA:1848:A:H5'	1.89	0.55
44:BJ:129:UNK:C	44:BJ:131:UNK:N	2.68	0.55
36:BA:1336:A:OP2	55:BX:64:LYS:HE3	2.07	0.55
1:AA:807:A:H2'	1:AA:808:C:C6	2.42	0.55
36:DA:2514:U:H2'	36:DA:2515:C:H6	1.70	0.55
30:D4:1:MET:HA	30:D4:6:HIS:CE1	2.42	0.55
42:DG:111:LEU:HB3	42:DG:117:PHE:HE2	1.71	0.55
42:DG:147:ASP:C	42:DG:149:VAL:H	2.08	0.55
25:CY:119:GLU:C	25:CY:121:VAL:H	2.10	0.55
41:DF:160:ASN:OD1	41:DF:163:VAL:HG23	2.07	0.55
41:DF:2:LYS:HG3	41:DF:25:PRO:HG2	1.88	0.55
30:B4:5:ILE:O	30:B4:5:ILE:HG12	2.06	0.55
36:BA:940:G:H3'	36:BA:941:A:H5''	1.88	0.55
47:DP:27:HIS:HD2	47:DP:28:GLY:N	2.04	0.55
50:DS:89:ARG:HH11	50:DS:89:ARG:HG2	1.70	0.55
32:D6:9:LEU:HD22	32:D6:9:LEU:O	2.06	0.55
32:B6:11:LEU:HG	32:B6:26:ASN:HD22	1.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:68:ALA:O	52:DU:71:GLN:HB3	2.07	0.55
36:BA:1022:G:N2	36:BA:1142(A):A:H2	2.05	0.55
36:BA:1493:C:C4	36:BA:2206:G:O2'	2.59	0.55
39:DD:35:LYS:CG	39:DD:63:ARG:HA	2.37	0.55
36:DA:2022:U:H2'	36:DA:2616:C:O2'	2.06	0.55
36:BA:107:C:H2'	36:BA:108:U:C6	2.42	0.55
57:DZ:153:SER:OG	57:DZ:157:LEU:HD11	2.06	0.55
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.37	0.55
1:CA:1490:C:C2'	1:CA:1491:G:H5'	2.37	0.55
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.89	0.55
1:AA:426:G:P	4:AD:36:ARG:HH22	2.30	0.55
18:CR:45:SER:OG	18:CR:46:GLU:N	2.38	0.55
1:CA:687:A:N6	1:CA:703:G:H1'	2.22	0.55
43:DH:121:ILE:HG23	43:DH:134:SER:O	2.07	0.55
1:CA:1386:G:O2'	1:CA:1387:G:H5'	2.06	0.55
1:CA:191:G:N3	20:CT:105:SER:HB3	2.22	0.55
38:DC:73:VAL:HG13	38:DC:158:LYS:HG2	1.89	0.55
3:CC:157:ILE:C	3:CC:159:GLY:H	2.10	0.55
48:BQ:51:ARG:O	48:BQ:54:MET:HB3	2.07	0.55
40:DE:59:VAL:HG21	40:DE:63:LEU:HA	1.88	0.55
1:AA:934:C:H5	1:AA:1344:C:H2'	1.72	0.55
37:DB:90:A:C8	37:DB:91:C:H1'	2.42	0.55
36:BA:884:C:N4	36:BA:886:C:H42	2.05	0.55
56:BY:88:LYS:HZ3	56:BY:93:GLY:C	2.10	0.55
11:AK:108:ILE:N	11:AK:108:ILE:CD1	2.70	0.55
36:DA:2415:G:H2'	36:DA:2416:C:C6	2.42	0.55
23:AW:39:C:H2'	23:AW:40:C:C6	2.42	0.55
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.89	0.55
26:D0:50:ASN:HA	26:D0:62:LEU:HD12	1.87	0.55
29:D3:45:GLY:HA3	36:DA:851:U:O2'	2.06	0.55
57:BZ:102:LEU:HD21	57:BZ:124:ILE:HD13	1.88	0.55
1:CA:358:U:H2'	1:CA:359:U:C6	2.41	0.55
39:DD:248:SER:HB2	39:DD:249:PRO:HD2	1.87	0.55
36:BA:402:A:C2'	36:BA:403:U:H5'	2.37	0.55
10:CJ:18:ALA:C	10:CJ:20:ALA:H	2.09	0.55
36:BA:2556:C:H2'	36:BA:2557:G:O4'	2.07	0.55
36:BA:2150:U:H2'	36:BA:2151:G:C8	2.42	0.55
38:BC:92:ALA:HB2	38:BC:154:ILE:HD13	1.89	0.55
36:BA:1075:C:H5'	36:BA:1076:C:OP2	2.07	0.55
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.72	0.55
36:DA:1510:G:O2'	36:DA:1511:C:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:109:ASN:HA	7:CG:119:ARG:HE	1.70	0.55
36:BA:566:U:O2'	36:BA:567:A:H5'	2.07	0.55
44:BJ:54:UNK:O	44:BJ:55:UNK:C	2.54	0.55
36:BA:58:G:H1	36:BA:69:C:H42	1.54	0.55
15:AO:40:SER:O	15:AO:44:LYS:HG3	2.07	0.55
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.45	0.55
42:DG:62:LEU:CD1	42:DG:62:LEU:H	2.20	0.55
25:CY:262:SER:OG	25:CY:265:LYS:HG2	2.07	0.55
53:BV:18:LEU:HD13	53:BV:19:LYS:N	2.22	0.55
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.89	0.55
47:DP:27:HIS:HD2	47:DP:28:GLY:H	1.54	0.55
31:B5:40:LYS:HZ1	31:B5:46:CYS:H	1.55	0.55
25:AY:487:ILE:N	25:AY:487:ILE:HD13	2.21	0.55
39:DD:259:THR:O	39:DD:260:ARG:C	2.45	0.55
1:AA:1490:C:C6	1:AA:1490:C:C5'	2.85	0.55
25:CY:238:THR:CG2	25:CY:241:GLU:HG2	2.35	0.55
31:D5:55:ARG:O	31:D5:56:LYS:CB	2.52	0.55
36:DA:1278:A:O2'	36:DA:1279:G:H5'	2.07	0.55
56:BY:44:ILE:CG2	56:BY:45:VAL:N	2.70	0.55
36:DA:1899:G:O2'	36:DA:1900:A:H5''	2.06	0.55
40:DE:133:LYS:C	40:DE:134:ILE:HD12	2.27	0.55
45:DN:67:LEU:HD22	45:DN:87:LEU:HB3	1.88	0.55
13:CM:70:LEU:C	13:CM:70:LEU:HD23	2.28	0.55
40:DE:119:ARG:NH1	40:DE:156:MET:O	2.40	0.55
36:DA:2317:C:H2'	36:DA:2318:G:C5'	2.29	0.55
57:DZ:157:LEU:HD22	57:DZ:161:VAL:HG12	1.89	0.55
36:DA:310:A:P	56:DY:18:GLY:HA2	2.47	0.55
36:BA:1487:G:H3'	36:BA:1488:G:H8	1.71	0.55
40:BE:47:VAL:HG12	40:BE:48:GLN:N	2.12	0.55
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.34	0.55
51:DT:32:TYR:HD1	51:DT:81:PRO:O	1.89	0.55
41:DF:84:VAL:CG1	41:DF:85:GLY:H	2.12	0.55
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.36	0.55
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.07	0.55
1:AA:1442(B):A:C5	51:BT:118:ARG:NE	2.74	0.55
51:DT:7:ILE:O	51:DT:10:VAL:HB	2.06	0.55
57:DZ:115:GLY:HA3	57:DZ:146:ILE:HG21	1.88	0.55
43:BH:124:GLU:HB2	43:BH:132:ARG:HG3	1.89	0.55
23:CW:24:U:H2'	23:CW:25:C:H6	1.72	0.55
43:DH:124:GLU:HB2	43:DH:132:ARG:HG3	1.89	0.55
34:B8:62:LEU:N	34:B8:63:PRO:CD	2.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:101:ILE:H	38:BC:101:ILE:HD12	1.71	0.55
35:B9:1:MET:O	35:B9:34:GLN:HG2	2.07	0.55
36:BA:1943:U:O2'	36:BA:1944:U:O5'	2.21	0.55
25:AY:491:VAL:HG11	25:AY:596:LYS:HD3	1.89	0.55
2:AB:32:ILE:HD12	2:AB:40:HIS:HB3	1.89	0.55
43:DH:30:LYS:CD	43:DH:81:GLU:HG2	2.35	0.55
29:B3:26:LEU:HB3	29:B3:28:LEU:HD21	1.89	0.55
28:B2:32:LEU:O	28:B2:35:LEU:HB3	2.07	0.55
1:AA:713:G:H2'	1:AA:714:G:C8	2.42	0.55
36:BA:654(G):C:H2'	36:BA:654(H):G:C8	2.42	0.55
1:AA:1492:A:H2'	1:AA:1493:A:C8	2.42	0.55
36:DA:1028:A:N6	36:DA:1125:G:H2'	2.20	0.55
41:BF:206:ILE:HG22	41:BF:207:GLY:N	2.21	0.55
40:DE:183:LEU:HD12	40:DE:183:LEU:N	2.21	0.55
1:AA:658:G:O4'	15:AO:22:THR:HB	2.07	0.55
47:BP:80:TYR:CE1	47:BP:111:ARG:HG2	2.42	0.55
36:BA:2870:C:H5''	49:BR:65:LEU:HD21	1.87	0.55
53:DV:2:PHE:CE1	53:DV:13:ARG:NH1	2.75	0.55
46:BO:107:ARG:O	46:BO:112:MET:HE1	2.06	0.55
1:AA:45:U:H2'	1:AA:46:G:C8	2.42	0.55
3:AC:20:SER:HB3	3:AC:40:ARG:HH22	1.72	0.55
4:CD:154:ASN:O	4:CD:155:LEU:HD23	2.07	0.55
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.07	0.55
1:CA:603:U:H2'	1:CA:604:G:C8	2.41	0.55
1:CA:309:G:H1'	1:CA:608:A:C2	2.42	0.55
25:CY:536:LYS:HZ2	25:CY:536:LYS:H	1.55	0.55
37:DB:54:G:O2'	37:DB:55:U:H5'	2.07	0.55
45:BN:50:ASP:O	45:BN:52:VAL:HG23	2.07	0.55
30:D4:22:ILE:HD12	30:D4:22:ILE:N	2.21	0.55
42:DG:66:GLN:HG2	42:DG:67:LYS:H	1.72	0.55
30:B4:48:ARG:HH21	30:B4:49:PHE:HE1	1.55	0.55
1:CA:793:U:O2	1:CA:1516:G:H4'	2.07	0.55
15:AO:82:ILE:O	15:AO:82:ILE:HD13	2.07	0.55
56:DY:13:VAL:HG21	56:DY:72:VAL:HB	1.89	0.55
23:CW:6:G:H2'	23:CW:7:G:O4'	2.06	0.55
25:AY:438:PHE:C	25:AY:438:PHE:CD1	2.79	0.55
40:DE:119:ARG:HG2	40:DE:160:TYR:HB2	1.89	0.55
47:BP:126:VAL:HG12	47:BP:148:LEU:HD21	1.89	0.55
51:BT:88:ILE:HG22	51:BT:89:VAL:HG23	1.88	0.55
25:AY:411:VAL:HG23	25:AY:459:LEU:HD22	1.88	0.55
41:DF:117:ARG:NH2	47:DP:5:ASP:N	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:88:ILE:HG22	51:DT:89:VAL:HG23	1.89	0.55
36:BA:2186:G:C2'	36:BA:2187:G:H5''	2.36	0.55
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.22	0.55
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.42	0.55
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.20	0.55
36:BA:1782:C:C2'	36:BA:1783:A:H5'	2.37	0.55
20:AT:30:LYS:HZ2	20:AT:34:LYS:HE3	1.71	0.55
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.07	0.55
43:BH:17:VAL:CG1	43:BH:50:VAL:HG21	2.32	0.55
36:DA:285:C:O2'	36:DA:286:C:H5''	2.07	0.55
54:DW:6:ILE:HA	54:DW:103:ILE:O	2.07	0.55
26:D0:14:ARG:NH1	36:DA:2279:G:O6	2.40	0.55
38:BC:138:LEU:HD22	38:BC:139:PRO:CD	2.36	0.55
40:BE:14:ILE:CD1	40:BE:173:VAL:HG11	2.37	0.55
36:BA:1185:C:H5'	36:BA:1186:G:P	2.47	0.55
36:BA:1186:G:C2'	36:BA:1187:G:H5'	2.36	0.55
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.70	0.55
43:BH:76:VAL:C	43:BH:78:GLY:H	2.09	0.55
28:B2:2:LYS:HA	28:B2:5:GLU:OE1	2.07	0.55
57:DZ:133:ILE:N	57:DZ:134:PRO:CD	2.70	0.55
1:CA:1221:G:H1'	19:CS:54:GLY:HA3	1.87	0.55
33:B7:24:THR:HG23	33:B7:27:GLY:H	1.72	0.55
28:B2:32:LEU:HD11	28:B2:54:LYS:CG	2.37	0.55
36:DA:528:A:C2	36:DA:2043:C:H4'	2.43	0.55
56:DY:86:ARG:CZ	56:DY:95:LYS:HD2	2.37	0.55
36:BA:1132:A:H2'	36:BA:1133:U:C6	2.40	0.55
36:DA:1381:G:N2	36:DA:1382:G:H1'	2.22	0.55
36:DA:910:A:C5	48:DQ:13:GLN:HG3	2.42	0.55
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.37	0.55
56:BY:50:ARG:HB2	56:BY:57:GLN:HA	1.89	0.55
1:CA:382:A:H2'	1:CA:383:A:C8	2.41	0.55
36:DA:2514:U:H2'	36:DA:2515:C:C6	2.41	0.55
36:DA:1205:U:C5	41:DF:171:PRO:HA	2.42	0.55
1:CA:1168:A:OP1	1:CA:1168:A:H8	1.90	0.55
30:D4:56:VAL:O	30:D4:57:GLU:HB2	2.06	0.55
1:CA:639:G:O2'	1:CA:640:A:H5'	2.07	0.55
42:BG:107:LEU:HD11	42:BG:178:PHE:CE1	2.41	0.55
36:DA:900:A:H2'	36:DA:901:A:O4'	2.07	0.55
57:DZ:3:TYR:CD2	57:DZ:51:ALA:HB2	2.42	0.55
47:DP:132:LYS:O	47:DP:136:GLU:HG2	2.07	0.55
2:CB:69:LEU:HD12	2:CB:70:PHE:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:35:A:H2	24:CX:18:C:C2	2.24	0.54
23:CW:34:C:O2'	23:CW:35:A:H4'	2.06	0.54
38:DC:115:VAL:HG12	38:DC:145:THR:HA	1.88	0.54
25:CY:100:VAL:HG21	25:CY:314:PHE:CD2	2.42	0.54
25:CY:315:LYS:HZ2	25:CY:317:MET:HG2	1.72	0.54
25:AY:115:GLU:CG	25:AY:118:SER:HB3	2.38	0.54
43:BH:159:GLU:HG3	43:BH:160:LYS:H	1.72	0.54
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.55	0.54
52:BU:68:ALA:O	52:BU:71:GLN:HB3	2.07	0.54
50:BS:98:VAL:HG12	50:BS:100:ALA:N	2.22	0.54
37:BB:49:C:OP1	50:BS:96:GLY:HA3	2.07	0.54
50:DS:101:LEU:HD12	50:DS:101:LEU:C	2.26	0.54
31:B5:40:LYS:HZ1	31:B5:46:CYS:N	2.04	0.54
28:D2:15:LYS:O	28:D2:16:LEU:HD23	2.06	0.54
36:DA:997:G:O2'	36:DA:998:C:H5'	2.06	0.54
36:DA:2345:G:C4'	36:DA:2346:A:H5'	2.37	0.54
36:DA:1826:G:H4'	39:DD:242:ARG:NH2	2.22	0.54
12:CL:42:THR:HG23	12:CL:42:THR:O	2.07	0.54
32:B6:13:CYS:HB3	32:B6:49:HIS:HB3	1.88	0.54
36:DA:1203:G:H3'	36:DA:1204:A:C5'	2.37	0.54
36:BA:675:A:OP1	41:BF:76:GLY:HA2	2.07	0.54
28:D2:35:LEU:O	28:D2:38:GLN:HG2	2.08	0.54
28:D2:36:ARG:HA	28:D2:39:ALA:CB	2.36	0.54
34:B8:47:LYS:NZ	34:B8:49:VAL:HG13	2.22	0.54
36:BA:142:A:H8	36:BA:1595:G:H21	1.55	0.54
47:DP:50:ARG:HG2	47:DP:50:ARG:HH11	1.72	0.54
46:BO:104:ARG:HH21	51:BT:33:LYS:HE3	1.71	0.54
23:AW:26:G:H2'	23:AW:27:U:C6	2.42	0.54
10:CJ:16:LEU:HD11	10:CJ:70:ARG:HB2	1.88	0.54
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.08	0.54
36:BA:799:G:C3'	36:BA:800:A:H5''	2.34	0.54
9:CI:95:LYS:HZ3	9:CI:96:LEU:CD1	2.18	0.54
41:BF:53:THR:CG2	41:BF:56:GLU:HG3	2.33	0.54
36:DA:1789:A:OP1	39:DD:222:ARG:HG3	2.06	0.54
52:BU:50:ARG:HH21	53:BV:70:ILE:CG2	2.20	0.54
39:BD:94:LEU:HD23	39:BD:95:LEU:N	2.23	0.54
19:CS:17:GLU:O	19:CS:21:GLU:HG2	2.07	0.54
36:BA:880:G:H2'	36:BA:881:G:H8	1.72	0.54
56:BY:2:ARG:N	56:BY:4:LYS:HG2	2.22	0.54
36:BA:1669:A:H2'	36:BA:1670:C:H5'	1.88	0.54
1:AA:275:G:H2'	1:AA:276:G:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:299:G:H2'	1:CA:300:A:C8	2.42	0.54
20:AT:42:GLN:NE2	20:AT:42:GLN:HA	2.21	0.54
37:BB:102:A:H3'	37:BB:103:G:H8	1.72	0.54
36:BA:389:G:H22	47:BP:72:PRO:HD3	1.72	0.54
36:BA:752:A:O2'	36:BA:753:C:OP2	2.21	0.54
26:D0:48:GLY:HA3	26:D0:80:HIS:HD1	1.72	0.54
36:BA:2122:U:H2'	36:BA:2123:G:H8	1.72	0.54
1:CA:1319:A:OP1	19:CS:10:PHE:CE1	2.60	0.54
36:BA:1035:U:H2'	36:BA:1036:G:H8	1.72	0.54
42:DG:167:GLU:O	42:DG:170:ARG:HB3	2.06	0.54
36:DA:402:A:C2'	36:DA:403:U:H5'	2.37	0.54
41:DF:103:LYS:C	41:DF:105:VAL:H	2.10	0.54
57:BZ:14:LYS:O	57:BZ:18:LEU:HD13	2.07	0.54
33:D7:37:LYS:HE2	36:DA:469:G:O6	2.07	0.54
36:DA:1395:A:H4'	36:DA:1397:U:C4	2.42	0.54
36:DA:825:C:O2'	36:DA:826:U:H5'	2.07	0.54
37:BB:17:C:H3'	37:BB:18:G:H8	1.72	0.54
1:CA:673:G:H2'	1:CA:674:G:C8	2.42	0.54
1:AA:291:C:O2'	1:AA:292:G:H5'	2.06	0.54
36:DA:1064:C:H42	36:DA:1074:G:H1	1.55	0.54
3:CC:20:SER:HB3	3:CC:40:ARG:HH22	1.72	0.54
3:CC:20:SER:HB3	3:CC:40:ARG:NH2	2.22	0.54
36:DA:35:G:O2'	36:DA:36:G:H5'	2.06	0.54
25:AY:121:VAL:HA	25:AY:124:GLN:HE22	1.71	0.54
25:AY:17:ILE:N	25:AY:17:ILE:CD1	2.69	0.54
25:AY:613:PRO:C	25:AY:615:GLU:H	2.09	0.54
25:AY:14:ASN:HD22	25:AY:80:ASN:HB2	1.72	0.54
36:BA:322:A:H3'	41:BF:169:ASN:HD21	1.71	0.54
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.20	0.54
29:D3:9:VAL:HG11	29:D3:55:ARG:HD3	1.90	0.54
36:DA:978:G:C2	36:DA:986:C:N3	2.76	0.54
2:AB:167:PRO:HG2	2:AB:192:SER:OG	2.06	0.54
32:B6:35:GLU:OE1	32:B6:35:GLU:HA	2.07	0.54
28:D2:2:LYS:HB3	36:DA:97:C:H5''	1.88	0.54
36:DA:1345:C:H42	36:DA:1601:G:H1	1.55	0.54
23:CW:65:C:H2'	23:CW:66:C:C6	2.42	0.54
36:DA:1452:A:C3'	36:DA:1453:U:C5'	2.76	0.54
39:BD:35:LYS:CG	39:BD:63:ARG:HA	2.37	0.54
47:DP:105:LEU:HD12	47:DP:105:LEU:N	2.21	0.54
25:AY:215:LYS:O	25:AY:219:VAL:HG23	2.07	0.54
47:BP:81:GLN:HG2	47:BP:106:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:27:THR:O	51:DT:28:VAL:HG23	2.07	0.54
27:B1:82:LEU:O	27:B1:83:GLU:HG3	2.07	0.54
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HB2	1.88	0.54
41:BF:185:ASP:HA	41:BF:188:ARG:HD3	1.88	0.54
36:BA:2523:G:H2'	36:BA:2524:G:H5'	1.88	0.54
49:BR:10:LEU:CB	49:BR:17:ARG:HD3	2.33	0.54
47:BP:41:ARG:NH1	47:BP:41:ARG:HB3	2.22	0.54
36:DA:363(D):G:O2'	36:DA:363(E):U:H5'	2.07	0.54
36:BA:1047:G:H22	36:BA:1110:G:H1'	1.72	0.54
44:BJ:59:UNK:HA	44:BJ:62:UNK:CB	2.38	0.54
39:DD:72:LYS:HE3	39:DD:101:GLU:HB3	1.89	0.54
9:CI:54:ASP:O	9:CI:56:LEU:N	2.37	0.54
36:DA:2069:G:C2'	36:DA:2070:G:H5'	2.38	0.54
48:BQ:101:ARG:HD2	48:BQ:102:VAL:N	2.21	0.54
25:AY:276:VAL:HA	25:AY:280:LEU:CD2	2.33	0.54
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.71	0.54
1:AA:393:A:O2'	1:AA:394:G:H5'	2.08	0.54
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.90	0.54
40:DE:14:ILE:HG13	40:DE:21:VAL:CG2	2.37	0.54
43:DH:159:GLU:O	43:DH:160:LYS:O	2.25	0.54
36:DA:1353:A:H2'	36:DA:1354:A:C8	2.42	0.54
47:DP:13:ASN:HD22	47:DP:13:ASN:N	2.05	0.54
19:CS:6:LYS:HE3	19:CS:6:LYS:H	1.72	0.54
37:DB:22:U:H2'	37:DB:23:G:C8	2.42	0.54
36:BA:1035:U:H2'	36:BA:1036:G:C8	2.43	0.54
9:AI:11:LYS:O	9:AI:12:GLU:HB2	2.07	0.54
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.73	0.54
30:D4:37:SER:O	30:D4:38:LYS:HB2	2.07	0.54
7:AG:107:ALA:O	7:AG:110:GLN:HB2	2.08	0.54
49:BR:104:ARG:HG3	49:BR:111:LEU:HD21	1.88	0.54
36:BA:1252:G:N3	52:BU:33:ARG:HD2	2.21	0.54
36:BA:1767:C:O2'	36:BA:1768:U:H5'	2.07	0.54
43:DH:117:PRO:HB3	43:DH:123:PHE:CE2	2.41	0.54
36:DA:1921:G:O2'	36:DA:1922:G:H5'	2.08	0.54
1:CA:324:G:O5'	1:CA:324:G:H8	1.90	0.54
36:BA:1056:G:H4'	36:BA:1086:A:H8	1.72	0.54
32:B6:42:TRP:HA	32:B6:42:TRP:CE3	2.41	0.54
1:AA:802:A:H3'	1:AA:803:G:C8	2.42	0.54
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.71	0.54
30:D4:1:MET:HG2	42:DG:98:ARG:HE	1.70	0.54
41:DF:170:LEU:HD12	41:DF:172:TRP:NE1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:17:LYS:HD3	12:AL:18:VAL:N	2.23	0.54
29:D3:31:LEU:O	29:D3:32:GLN:HB2	2.08	0.54
30:B4:1:MET:CE	42:BG:66:GLN:OE1	2.55	0.54
57:DZ:10:ARG:HD2	57:DZ:36:LYS:HB3	1.89	0.54
15:CO:17:ARG:NH1	15:CO:77:ARG:CZ	2.71	0.54
36:BA:1012:U:C4	45:BN:28:THR:HG21	2.42	0.54
36:BA:2309:A:H2'	36:BA:2310:A:H5''	1.89	0.54
36:DA:27:G:O2'	36:DA:28:A:H8	1.80	0.54
47:BP:50:ARG:HH11	47:BP:50:ARG:HG2	1.71	0.54
13:CM:15:VAL:HA	13:CM:18:ALA:CB	2.38	0.54
36:BA:814:C:H2'	36:BA:815:C:H6	1.70	0.54
23:AW:22:G:C2'	23:AW:23:C:C5'	2.83	0.54
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.88	0.54
1:AA:687:A:O2'	1:AA:701:C:N4	2.40	0.54
36:DA:1463:C:H2'	36:DA:1464:C:H6	1.71	0.54
39:BD:43:ARG:HD2	39:BD:44:ASN:OD1	2.08	0.54
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	2.07	0.54
36:DA:2425:A:H4'	36:DA:2426:A:H5''	1.88	0.54
36:DA:2329:G:H2'	36:DA:2330:G:H8	1.73	0.54
9:AI:5:TYR:CE1	9:AI:18:PHE:HE1	2.26	0.54
36:DA:1719:G:C2'	36:DA:1720:U:H5'	2.37	0.54
15:AO:83:GLU:O	15:AO:85:LEU:N	2.37	0.54
36:DA:1584:C:H5'	36:DA:1586:A:OP2	2.06	0.54
1:AA:547:A:OP2	4:AD:2:GLY:N	2.41	0.54
43:DH:19:VAL:HG12	43:DH:20:ALA:N	2.20	0.54
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.71	0.54
33:D7:24:THR:HG23	33:D7:27:GLY:H	1.72	0.54
43:DH:76:VAL:C	43:DH:78:GLY:H	2.10	0.54
1:AA:538:G:H2'	1:AA:539:A:H8	1.72	0.54
31:B5:29:THR:O	31:B5:42:PRO:HD2	2.08	0.54
37:BB:105:A:P	57:BZ:72:ARG:HH12	2.30	0.54
49:DR:12:ARG:HB3	49:DR:16:HIS:HD2	1.72	0.54
33:D7:35:ARG:HG2	33:D7:35:ARG:NH1	2.23	0.54
27:B1:26:ARG:HG3	27:B1:27:GLU:H	1.72	0.54
36:BA:2030:A:H4'	36:BA:2031:A:H8	1.71	0.54
36:DA:1794:U:H2'	36:DA:1795:C:H6	1.71	0.54
57:BZ:107:THR:HG23	57:BZ:111:VAL:HB	1.89	0.54
57:BZ:109:ALA:C	57:BZ:111:VAL:H	2.11	0.54
36:BA:953:A:O2'	36:BA:954:G:H5'	2.07	0.54
36:BA:1101:U:H2'	36:BA:1102:C:C6	2.41	0.54
25:CY:415:PRO:HA	25:CY:474:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.22	0.54
7:AG:109:ASN:HA	7:AG:119:ARG:HE	1.71	0.54
41:DF:113:ALA:HB1	41:DF:186:ILE:HG21	1.89	0.54
1:AA:639:G:O2'	1:AA:640:A:H5'	2.07	0.54
7:AG:75:VAL:HG11	7:AG:86:GLN:HB3	1.89	0.54
36:BA:1632:A:C5	36:BA:1633:G:C6	2.95	0.54
36:BA:2543:G:H8	36:BA:2543:G:H5'	1.73	0.54
27:D1:52:ARG:NH2	36:DA:2218:U:H1'	2.21	0.54
36:DA:2611:U:H3'	36:DA:2611:U:OP2	2.08	0.54
28:D2:30:ARG:O	28:D2:34:GLU:HB2	2.06	0.54
1:AA:332:G:H2'	1:AA:333:G:H8	1.71	0.54
25:CY:298:VAL:HG22	25:CY:299:VAL:N	2.23	0.54
25:AY:119:GLU:OE1	25:AY:666:ARG:HG2	2.07	0.54
43:BH:12:PRO:HB2	43:BH:15:VAL:HG11	1.88	0.54
25:CY:553:GLY:HA2	25:CY:560:VAL:HG23	1.89	0.54
57:BZ:9:TYR:CD2	57:BZ:35:ARG:NH2	2.74	0.54
42:BG:34:LEU:HD11	42:BG:100:TRP:CH2	2.43	0.54
57:DZ:10:ARG:CD	57:DZ:36:LYS:HE2	2.26	0.54
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.21	0.54
25:AY:560:VAL:CG1	25:AY:594:VAL:HG11	2.37	0.54
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.27	0.54
2:AB:82:ARG:NH1	2:AB:82:ARG:HG3	2.23	0.54
45:DN:58:ASP:O	45:DN:60:ILE:HG13	2.07	0.54
45:DN:94:HIS:N	45:DN:95:PRO:CD	2.69	0.54
36:BA:945:A:O2'	36:BA:946:G:H4'	2.07	0.54
47:BP:112:LEU:O	47:BP:128:HIS:HB2	2.08	0.54
27:B1:60:PHE:CD1	27:B1:91:LYS:HE3	2.41	0.54
51:DT:23:ARG:HB2	51:DT:24:PRO:HD2	1.89	0.54
25:AY:529:ILE:HD11	25:AY:567:LEU:HD11	1.90	0.54
56:BY:17:SER:HB3	56:BY:71:LYS:HD2	1.90	0.54
40:BE:50:GLY:HA3	40:BE:74:PRO:HG3	1.90	0.54
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.07	0.54
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.21	0.54
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.81	0.54
1:CA:687:A:O2'	1:CA:701:C:N4	2.40	0.54
5:AE:91:LEU:HA	5:AE:120:THR:HG22	1.90	0.54
43:BH:83:TYR:HB3	43:BH:135:GLY:N	2.21	0.54
57:DZ:9:TYR:HB3	57:DZ:35:ARG:HH22	1.72	0.54
39:BD:108:PRO:HG2	39:BD:111:LEU:CB	2.34	0.54
12:CL:83:VAL:CG1	12:CL:100:ILE:HG23	2.38	0.54
39:DD:158:ALA:O	39:DD:196:VAL:HG11	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1188:U:C2'	36:DA:1189:A:H5'	2.36	0.54
36:DA:1285:G:C2'	36:DA:1286:A:H5'	2.34	0.54
1:CA:450:G:H1	1:CA:483:C:H42	1.56	0.54
38:BC:115:VAL:HG12	38:BC:145:THR:HA	1.89	0.54
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.90	0.54
35:D9:35:ARG:HD3	36:DA:2742:C:OP1	2.08	0.54
1:CA:472:A:H2'	1:CA:473:G:O4'	2.07	0.54
36:DA:2377:A:O2'	36:DA:2378:A:H5'	2.07	0.54
37:BB:106:G:H5'	57:BZ:31:ARG:HB3	1.88	0.54
36:DA:1116:C:H2'	36:DA:1117:G:H8	1.73	0.54
43:DH:37:VAL:HG12	43:DH:38:SER:N	2.23	0.54
13:CM:56:LEU:C	13:CM:56:LEU:HD13	2.26	0.54
46:DO:4:PRO:O	46:DO:5:GLN:CB	2.54	0.54
36:DA:1887:C:C3'	36:DA:1888:G:H5''	2.36	0.54
36:BA:2168:G:N2	36:BA:2170:A:H3'	2.22	0.54
36:DA:1127:A:H2'	36:DA:1128:A:H5''	1.89	0.54
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.61	0.54
36:DA:65:C:H5'	55:DX:71:GLY:HA3	1.90	0.54
36:DA:2408:U:H2'	36:DA:2409:G:H8	1.72	0.54
42:BG:170:ARG:O	42:BG:174:GLU:HG3	2.08	0.54
36:DA:2130:U:OP1	38:DC:6:LYS:HB2	2.07	0.54
39:BD:84:TYR:C	39:BD:84:TYR:CD1	2.81	0.54
1:CA:862:C:O2'	1:CA:863:U:H5'	2.06	0.54
37:BB:66:A:H61	37:BB:108:U:H2'	1.72	0.54
54:BW:95:ILE:O	54:BW:95:ILE:HG13	2.06	0.54
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.22	0.54
39:BD:201:HIS:O	39:BD:204:ILE:HG12	2.07	0.54
4:CD:201:GLN:O	4:CD:205:GLU:HG3	2.08	0.54
41:BF:103:LYS:HA	41:BF:106:ARG:HG3	1.89	0.54
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.55	0.54
30:B4:51:ASP:OD1	30:B4:52:THR:HG23	2.08	0.54
50:BS:92:TYR:CG	50:BS:93:LYS:N	2.76	0.54
36:BA:2688:U:H1'	36:BA:2721:A:N6	2.23	0.54
52:DU:88:ILE:O	52:DU:90:VAL:N	2.40	0.54
36:DA:2287:A:H2	36:DA:2346:A:C2	2.25	0.54
25:AY:634:MET:HA	25:AY:642:VAL:O	2.06	0.54
7:CG:37:ASN:ND2	9:CI:40:LEU:HA	2.22	0.54
51:BT:90:GLN:O	51:BT:91:ARG:C	2.46	0.54
36:DA:2523:G:C2'	36:DA:2524:G:C5'	2.74	0.54
28:D2:28:LYS:O	28:D2:53:LEU:HD21	2.07	0.54
1:CA:192:U:H2'	1:CA:193:C:C6	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:101:ILE:HD13	5:AE:118:ILE:O	2.07	0.54
1:CA:1116:C:C2'	1:CA:1117:G:H5'	2.35	0.54
1:CA:1128:C:H4'	1:CA:1148:U:O2	2.07	0.54
51:DT:16:ARG:H	51:DT:79:HIS:CD2	2.24	0.54
1:AA:687:A:N6	1:AA:703:G:H1'	2.22	0.54
1:CA:426:G:P	4:CD:36:ARG:HH22	2.30	0.54
1:AA:957:U:O2	1:AA:959:A:H8	1.90	0.54
36:BA:1467:C:C5	36:BA:1546:C:H2'	2.43	0.54
39:BD:238:GLY:O	39:BD:239:ARG:O	2.26	0.54
13:CM:81:LEU:HD22	13:CM:81:LEU:N	2.23	0.54
51:DT:42:ILE:HD13	51:DT:83:ILE:HD13	1.88	0.54
3:AC:11:ARG:O	3:AC:13:GLY:N	2.40	0.54
4:AD:28:SER:O	4:AD:30:LYS:N	2.38	0.54
22:AV:20:U:H5'	22:AV:21:A:OP2	2.07	0.54
36:BA:654(M):C:HO2'	36:BA:654(N):G:H8	1.46	0.54
19:AS:17:GLU:O	19:AS:21:GLU:HG2	2.08	0.54
36:DA:2681:C:H4'	36:DA:2682:U:H5'	1.89	0.54
36:DA:903:C:H2'	36:DA:904:C:C5'	2.35	0.54
36:BA:882:G:H1	36:BA:894:C:H42	1.56	0.54
2:CB:208:ILE:O	2:CB:212:GLN:HB2	2.07	0.54
43:BH:89:ILE:HD13	43:BH:94:TYR:HB3	1.90	0.54
1:CA:476:G:H2'	1:CA:477:A:H8	1.72	0.54
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.37	0.54
1:CA:59:A:H1'	1:CA:354:G:N2	2.22	0.54
19:AS:4:SER:O	19:AS:6:LYS:HE3	2.07	0.54
49:DR:56:LYS:HE3	49:DR:94:TYR:CE2	2.41	0.54
1:AA:812:C:O2'	1:AA:813:U:P	2.65	0.54
50:DS:44:LYS:O	50:DS:46:VAL:HG23	2.07	0.54
36:BA:1462:C:H4'	36:BA:2703:C:H5'	1.89	0.54
36:BA:564:C:O2'	36:BA:565:C:H5'	2.07	0.54
18:AR:74:ARG:HB3	18:AR:81:PHE:CE1	2.43	0.54
3:AC:54:ARG:HD3	3:AC:69:HIS:ND1	2.22	0.54
26:B0:5:LYS:HB3	26:B0:5:LYS:NZ	2.22	0.54
36:BA:2236:C:H2'	36:BA:2237:G:O4'	2.07	0.54
37:BB:68:C:H2'	37:BB:69:G:H8	1.73	0.54
36:DA:1274:A:N3	36:DA:1297:C:H1'	2.22	0.54
38:BC:223:VAL:O	38:BC:223:VAL:HG12	2.07	0.54
5:AE:41:VAL:HG22	5:AE:113:ALA:HA	1.90	0.54
25:CY:614:GLU:HA	25:CY:617:MET:HB2	1.89	0.54
22:CV:37:A:C2	24:CX:16:U:C4	2.96	0.54
27:B1:4:VAL:HG23	27:B1:11:ARG:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:48:A:H4'	50:DS:95:HIS:HD2	1.73	0.54
50:DS:89:ARG:CG	50:DS:92:TYR:HA	2.38	0.54
32:B6:37:ARG:CZ	36:BA:2286:A:N7	2.71	0.54
36:DA:1022:G:N2	36:DA:1142(A):A:H2	2.05	0.54
10:AJ:95:GLU:OE1	10:AJ:95:GLU:HA	2.07	0.54
36:BA:2069:G:C2'	36:BA:2070:G:H5'	2.38	0.54
36:BA:674:G:C1'	41:BF:74:ARG:HD3	2.31	0.54
47:BP:47:ASP:OD1	47:BP:49:ARG:HB2	2.08	0.54
52:BU:31:SER:CB	52:BU:34:LYS:HB2	2.33	0.54
45:DN:16:ILE:O	45:DN:54:VAL:HA	2.08	0.54
47:DP:47:ASP:OD1	47:DP:49:ARG:HB2	2.07	0.54
36:BA:2787:C:H1'	40:BE:61:ARG:CD	2.38	0.54
46:DO:91:LEU:N	46:DO:91:LEU:HD22	2.23	0.54
10:CJ:95:GLU:HA	10:CJ:95:GLU:OE1	2.08	0.54
51:BT:129:ARG:HG2	51:BT:129:ARG:O	2.07	0.54
36:BA:363(D):G:O2'	36:BA:363(E):U:H5'	2.08	0.54
23:AW:50:U:H3	23:AW:64:G:H1	1.54	0.54
36:BA:914:C:C2'	36:BA:915:C:H5'	2.34	0.54
2:AB:8:LYS:O	2:AB:11:LEU:N	2.41	0.54
19:CS:13:ASP:C	19:CS:15:LEU:N	2.60	0.54
1:AA:1298:C:C5	7:AG:114:ARG:HD3	2.43	0.54
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.08	0.54
46:BO:98:VAL:CG2	46:BO:117:LEU:HB3	2.38	0.54
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.43	0.54
51:BT:82:LEU:N	51:BT:82:LEU:CD1	2.70	0.54
1:AA:1221:G:H1'	19:AS:54:GLY:HA3	1.89	0.54
4:AD:61:LYS:CE	4:AD:62:GLN:HE21	2.21	0.54
53:DV:5:VAL:HG22	53:DV:6:LYS:N	2.22	0.54
4:CD:158:ILE:O	4:CD:162:LEU:HB2	2.08	0.54
47:DP:64:LYS:C	47:DP:66:GLY:N	2.61	0.54
16:CP:1:MET:CE	16:CP:65:GLN:HG3	2.38	0.54
53:BV:64:HIS:ND1	53:BV:92:THR:HG22	2.23	0.54
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.38	0.54
8:CH:114:THR:HG22	8:CH:130:GLY:O	2.07	0.54
41:DF:206:ILE:HG22	41:DF:207:GLY:N	2.22	0.54
36:BA:1395:A:H4'	36:BA:1397:U:C4	2.42	0.54
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.73	0.54
36:DA:1075:C:H5'	36:DA:1076:C:OP2	2.08	0.54
36:BA:643:A:O2'	36:BA:644:A:H5'	2.07	0.54
36:DA:1404:C:O2'	36:DA:1405:U:H5'	2.06	0.54
38:DC:85:LYS:O	38:DC:89:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1252:G:N3	52:DU:33:ARG:HD2	2.21	0.54
48:BQ:62:GLY:HA2	57:BZ:116:VAL:HG21	1.89	0.54
43:BH:77:LYS:HA	43:BH:80:SER:OG	2.08	0.54
2:CB:178:ARG:HH22	2:CB:196:LEU:HA	1.73	0.54
3:CC:150:LYS:HB2	3:CC:169:ALA:HB1	1.90	0.54
1:CA:757:U:H2'	1:CA:758:G:O4'	2.08	0.54
52:BU:104:GLN:HB3	53:BV:44:LYS:NZ	2.22	0.54
3:CC:49:SER:HB2	3:CC:75:VAL:HG11	1.88	0.54
38:DC:172:ILE:HD13	38:DC:197:LEU:HD21	1.89	0.54
38:DC:196:ALA:O	38:DC:199:ALA:HB3	2.07	0.54
44:DJ:27:UNK:HA	44:DJ:112:UNK:O	2.08	0.54
1:AA:427:U:C4	1:AA:428:G:C6	2.96	0.54
25:CY:438:PHE:HD2	25:CY:462:ILE:HD13	1.72	0.54
36:DA:2011:U:H2'	36:DA:2012:G:H5'	1.89	0.54
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.07	0.54
36:DA:1047:G:HO2'	36:DA:1110:G:H1	1.55	0.54
53:BV:49:THR:O	53:BV:50:PRO:C	2.43	0.54
45:BN:9:VAL:HG12	45:BN:10:GLU:N	2.22	0.54
32:B6:9:LEU:C	32:B6:9:LEU:HD22	2.28	0.54
32:D6:43:CYS:HB2	32:D6:44:ARG:NH2	2.22	0.54
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.22	0.54
56:DY:44:ILE:CG2	56:DY:45:VAL:N	2.71	0.54
9:CI:40:LEU:C	9:CI:42:ARG:H	2.09	0.54
51:BT:27:THR:O	51:BT:28:VAL:HG23	2.07	0.54
25:AY:409:ILE:HG22	25:AY:459:LEU:HD13	1.90	0.54
41:BF:65:TRP:HZ3	41:BF:75:HIS:HD2	1.54	0.54
36:BA:2317:C:H2'	36:BA:2318:G:C5'	2.30	0.54
28:D2:47:ASN:HD21	36:DA:94(A):G:H21	1.54	0.54
52:BU:34:LYS:HA	52:BU:34:LYS:CE	2.28	0.54
26:D0:77:ARG:NH2	36:DA:857:C:H5'	2.23	0.54
51:BT:32:TYR:HD1	51:BT:81:PRO:O	1.90	0.54
5:CE:78:HIS:O	5:CE:93:PRO:HD3	2.07	0.54
27:D1:73:LEU:CD2	27:D1:94:LEU:HB3	2.30	0.54
9:CI:17:VAL:HG13	9:CI:63:ILE:HG12	1.89	0.54
40:BE:48:GLN:HE21	40:BE:78:LEU:HD22	1.72	0.54
42:BG:56:ALA:HB1	42:BG:153:ARG:NE	2.22	0.54
41:BF:132:VAL:CG2	41:BF:133:ASN:H	2.18	0.54
12:AL:80:HIS:O	12:AL:81:SER:HB2	2.08	0.54
51:BT:11:GLU:H	51:BT:11:GLU:CD	2.11	0.54
51:BT:7:ILE:O	51:BT:10:VAL:HB	2.07	0.54
2:AB:9:GLU:HG2	2:AB:10:LEU:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:19:LYS:HD3	26:B0:41:ARG:NH2	2.23	0.54
51:DT:10:VAL:C	51:DT:12:SER:H	2.11	0.54
36:BA:2853:C:H2'	36:BA:2854:G:H8	1.71	0.54
18:AR:87:ARG:HB3	18:AR:87:ARG:HH11	1.72	0.54
36:BA:1188:U:C2'	36:BA:1189:A:H5'	2.38	0.54
36:DA:2107:C:H42	36:DA:2182:G:H1	1.53	0.54
19:AS:45:VAL:O	19:AS:47:HIS:N	2.37	0.54
7:CG:114:ARG:HG2	7:CG:114:ARG:HH11	1.73	0.54
25:AY:417:THR:C	25:AY:419:ALA:H	2.10	0.54
28:B2:2:LYS:HB2	36:BA:97:C:H5''	1.88	0.54
43:BH:37:VAL:HG12	43:BH:38:SER:N	2.22	0.54
53:DV:34:GLU:C	53:DV:35:LEU:HD22	2.28	0.54
36:BA:688:U:H2'	36:BA:689:A:H8	1.73	0.54
56:BY:86:ARG:CB	56:BY:88:LYS:HZ1	2.21	0.54
50:BS:19:LYS:O	50:BS:20:ARG:NH2	2.41	0.54
36:DA:528:A:H2	36:DA:2043:C:C4'	2.19	0.54
44:DJ:25:UNK:O	44:DJ:84:UNK:HA	2.08	0.54
47:BP:64:LYS:C	47:BP:66:GLY:N	2.61	0.54
1:AA:60:A:H5''	1:AA:331:G:N2	2.22	0.54
13:AM:105:THR:O	13:AM:106:ASN:CG	2.46	0.54
55:DX:70:LEU:C	55:DX:70:LEU:HD23	2.28	0.54
32:D6:42:TRP:HA	32:D6:42:TRP:CE3	2.41	0.54
36:BA:1272:A:OP2	36:BA:1647:G:OP1	2.25	0.54
44:DJ:13:UNK:C	44:DJ:15:UNK:H	2.20	0.54
53:DV:82:ARG:HD2	53:DV:82:ARG:N	2.23	0.54
7:CG:107:ALA:O	7:CG:110:GLN:HB2	2.08	0.54
36:DA:1272:A:OP2	36:DA:1647:G:OP1	2.25	0.54
43:DH:77:LYS:HA	43:DH:80:SER:OG	2.06	0.54
33:B7:12:ARG:HH11	33:B7:12:ARG:HG3	1.73	0.54
36:BA:1205:U:C5	41:BF:171:PRO:HA	2.43	0.54
1:AA:908:A:H2'	1:AA:909:A:C8	2.42	0.54
36:DA:769:G:H2'	36:DA:770:G:H8	1.72	0.54
37:DB:42:C:O4'	42:DG:69:ALA:HB2	2.08	0.54
25:CY:568:TYR:CD1	25:CY:569:ASP:HB2	2.42	0.54
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.17	0.54
10:CJ:78:ASN:C	10:CJ:79:ARG:HH11	2.11	0.54
32:D6:5:VAL:HG12	32:D6:6:ARG:N	2.22	0.54
34:D8:33:ASN:O	34:D8:34:TRP:HB3	2.06	0.54
34:B8:30:ARG:HA	34:B8:30:ARG:HE	1.72	0.54
52:DU:96:ALA:C	52:DU:98:LEU:H	2.09	0.54
32:D6:15:GLU:CD	32:D6:44:ARG:NH2	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:670:VAL:O	25:AY:671:MET:HB2	2.07	0.54
36:DA:1017:G:H2'	36:DA:1018:C:H6	1.73	0.54
46:DO:79:PHE:HB3	51:DT:70:VAL:HG11	1.89	0.54
41:BF:28:ILE:HG21	41:BF:116:ASP:HB2	1.90	0.54
50:DS:104:GLY:C	50:DS:106:ARG:H	2.11	0.54
25:AY:510:VAL:HG22	25:AY:534:ILE:HD13	1.90	0.54
57:DZ:102:LEU:HG	57:DZ:122:ARG:O	2.08	0.54
20:CT:30:LYS:NZ	20:CT:34:LYS:HE3	2.23	0.54
42:BG:153:ARG:HB3	42:BG:153:ARG:HH11	1.72	0.54
43:DH:175:LYS:O	43:DH:176:ALA:CB	2.55	0.54
39:BD:70:TRP:CD1	39:BD:70:TRP:C	2.81	0.54
36:BA:2876:G:H5'	51:BT:3:ARG:HA	1.90	0.54
40:BE:183:LEU:HD12	40:BE:183:LEU:N	2.22	0.54
43:BH:85:LYS:NZ	43:BH:87:LEU:HG	2.23	0.54
57:DZ:67:LEU:N	57:DZ:67:LEU:HD12	2.22	0.54
1:CA:1112:C:O2'	3:CC:179:ARG:HG2	2.08	0.54
36:BA:1047:G:O2'	36:BA:1110:G:N2	2.41	0.54
5:CE:12:LEU:O	5:CE:12:LEU:HD13	2.06	0.54
12:CL:47:LYS:HD2	12:CL:48:PRO:CD	2.37	0.54
1:CA:202:U:H5'	1:CA:203:U:H5	1.72	0.54
36:DA:884:C:N4	36:DA:886:C:H42	2.06	0.54
36:BA:586:A:C2	36:BA:1254:A:C2	2.96	0.54
35:D9:29:ASN:H	35:D9:29:ASN:HD22	1.54	0.54
46:DO:24:VAL:CG2	46:DO:30:ALA:HB3	2.38	0.54
1:AA:472:A:H2'	1:AA:473:G:O4'	2.07	0.54
4:CD:159:ARG:HG3	4:CD:159:ARG:NH1	2.21	0.54
36:DA:2162:G:H2'	36:DA:2163:C:C6	2.43	0.54
47:BP:13:ASN:HD22	47:BP:13:ASN:N	2.04	0.54
36:BA:1127:A:H2'	36:BA:1128:A:H5''	1.89	0.54
53:DV:32:THR:HG22	53:DV:33:VAL:N	2.23	0.54
36:BA:2849:U:H1'	36:BA:2866:U:H6	1.72	0.54
34:D8:10:ALA:O	34:D8:14:VAL:HG12	2.08	0.54
30:B4:22:ILE:HG22	30:B4:23:GLU:N	2.22	0.54
42:DG:13:GLU:O	42:DG:14:GLU:HG3	2.07	0.54
2:AB:178:ARG:HH22	2:AB:196:LEU:HA	1.71	0.54
30:D4:42:PHE:N	30:D4:42:PHE:CD1	2.76	0.54
1:CA:807:A:H2'	1:CA:808:C:C6	2.43	0.54
39:DD:77:ALA:HB2	39:DD:97:TYR:CD2	2.42	0.54
36:BA:2350:C:H2'	36:BA:2351:G:O4'	2.07	0.54
36:BA:74:A:O2'	36:BA:75:G:OP2	2.21	0.54
36:BA:1858:G:HO2'	36:BA:1859:A:H8	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1047:G:O2'	36:DA:1110:G:N2	2.41	0.54
50:BS:89:ARG:CG	50:BS:92:TYR:HA	2.37	0.54
36:BA:83:G:O2'	36:BA:84:A:C8	2.55	0.54
25:AY:634:MET:O	25:AY:634:MET:HG2	2.08	0.54
12:CL:41:ARG:CG	12:CL:42:THR:N	2.70	0.54
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.08	0.54
36:DA:2014:A:H4'	54:DW:92:ARG:HH22	1.72	0.54
39:BD:35:LYS:HD3	39:BD:61:LEU:HD12	1.90	0.54
51:DT:28:VAL:HG13	51:DT:46:GLU:CA	2.36	0.54
36:BA:1241:A:H2'	36:BA:1242:A:O4'	2.08	0.54
26:B0:26:TYR:O	26:B0:67:VAL:HB	2.07	0.54
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.43	0.54
36:BA:1815:A:OP2	36:BA:1822:G:H5''	2.08	0.54
36:DA:28:A:H62	36:DA:512:G:H1'	1.71	0.54
39:DD:25:THR:HG22	39:DD:26:LYS:H	1.73	0.54
36:BA:813:U:H2'	36:BA:814:C:H6	1.68	0.54
36:BA:2713:A:C3'	36:BA:2714:G:C5'	2.86	0.54
1:CA:974:A:C8	14:CN:31:ARG:HD2	2.43	0.54
39:BD:270:ILE:HD12	39:BD:270:ILE:N	2.21	0.54
2:CB:11:LEU:HD11	2:CB:217:ARG:NH2	2.23	0.54
4:CD:173:TRP:HB2	4:CD:187:ARG:O	2.08	0.54
1:AA:1026:G:C3'	1:AA:1027:C:H5'	2.38	0.54
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.90	0.54
57:DZ:7:ALA:O	57:DZ:62:PRO:HD3	2.08	0.54
1:CA:1387:G:C6	1:CA:1388:C:N4	2.76	0.54
36:BA:862:G:H2'	36:BA:863:A:O4'	2.08	0.54
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.55	0.54
36:DA:2465:C:O2'	36:DA:2466:C:H5'	2.07	0.54
36:DA:90:U:H3'	36:DA:90:U:O2	2.07	0.54
38:BC:218:THR:HG22	38:BC:219:MET:SD	2.48	0.54
52:DU:110:VAL:HG12	52:DU:114:LYS:CD	2.38	0.54
36:BA:90:U:H3'	36:BA:90:U:O2	2.07	0.54
9:AI:125:TYR:HD1	9:AI:126:SER:H	1.55	0.54
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.07	0.54
4:AD:146:ILE:HD13	4:AD:146:ILE:N	2.23	0.54
16:CP:8:ARG:HB3	16:CP:28:ARG:NH1	2.20	0.54
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.90	0.54
36:DA:1068:G:N2	36:DA:1096:A:H5'	2.22	0.54
25:AY:491:VAL:CG1	25:AY:492:ASP:H	2.21	0.54
36:BA:2577:A:H5'	36:BA:2578:G:C5'	2.36	0.54
36:DA:2577:A:H5'	36:DA:2578:G:C5'	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:B9:17:ILE:HG22	35:B9:18:ARG:H	1.72	0.54
49:DR:4:LEU:C	49:DR:6:SER:N	2.61	0.54
36:BA:204:A:H8	36:BA:204:A:OP1	1.91	0.54
38:DC:42:VAL:HG21	38:DC:186:LEU:HD22	1.90	0.54
39:BD:172:TYR:HD1	39:BD:186:HIS:HA	1.72	0.54
23:AW:10:G:H2'	23:AW:11:A:H8	1.73	0.54
36:DA:2300:G:H2'	36:DA:2301:C:C6	2.42	0.54
56:DY:50:ARG:HB2	56:DY:57:GLN:HA	1.90	0.54
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.07	0.54
39:BD:76:PRO:HG2	39:BD:98:VAL:CG2	2.37	0.54
9:CI:11:LYS:O	9:CI:12:GLU:HB2	2.08	0.54
46:DO:2:ILE:HD11	46:DO:82:ASN:HB3	1.90	0.54
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.89	0.54
4:AD:152:SER:O	4:AD:155:LEU:HG	2.07	0.54
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.88	0.54
42:DG:32:PRO:HB3	42:DG:163:ALA:HB2	1.89	0.54
36:DA:1441:G:H2'	36:DA:1442:G:H8	1.73	0.54
1:CA:826:C:H2'	1:CA:827:U:H6	1.72	0.54
7:AG:152:ALA:O	7:AG:155:ARG:HG3	2.08	0.54
25:AY:517:LEU:HB3	25:AY:521:SER:OG	2.07	0.54
50:DS:38:GLN:O	50:DS:39:ILE:HG13	2.08	0.54
18:AR:55:ARG:HG3	18:AR:55:ARG:HH11	1.73	0.54
50:BS:48:LEU:N	50:BS:48:LEU:HD12	2.22	0.54
38:DC:29:LEU:HD23	38:DC:29:LEU:O	2.08	0.54
36:BA:514:A:H2'	36:BA:515:A:C8	2.43	0.54
25:CY:537:GLU:O	25:CY:540:PRO:HD2	2.08	0.54
23:AW:34:C:O2'	23:AW:35:A:H4'	2.06	0.54
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.88	0.54
42:DG:114:ILE:HD12	42:DG:117:PHE:CD2	2.43	0.54
57:BZ:61:LEU:O	57:BZ:63:ASP:N	2.41	0.54
40:BE:119:ARG:NH1	40:BE:156:MET:O	2.42	0.54
49:BR:97:VAL:O	49:BR:98:LEU:HD23	2.07	0.54
25:CY:230:LYS:HZ1	25:CY:237:PRO:HA	1.72	0.54
3:CC:154:SER:OG	3:CC:155:GLY:N	2.40	0.54
49:DR:97:VAL:HA	49:DR:113:LEU:O	2.08	0.54
25:AY:608:VAL:HG13	25:AY:670:VAL:O	2.08	0.54
47:DP:83:VAL:H	47:DP:115:LEU:CD2	2.20	0.54
36:DA:637:A:H2'	47:DP:117:GLU:OE2	2.08	0.54
36:DA:1493:C:C4	36:DA:2206:G:O2'	2.61	0.54
28:D2:25:VAL:HG11	28:D2:61:LEU:HD21	1.90	0.54
39:DD:24:ILE:O	39:DD:25:THR:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:47:ILE:O	46:BO:48:PRO:O	2.25	0.54
36:DA:1487:G:H3'	36:DA:1488:G:H8	1.73	0.54
36:BA:2811:G:H2'	36:BA:2812:G:C8	2.43	0.54
39:BD:24:ILE:O	39:BD:25:THR:O	2.26	0.54
25:CY:178:ILE:HD11	25:CY:185:ALA:CB	2.38	0.54
39:BD:70:TRP:O	39:BD:73:VAL:HG23	2.08	0.54
9:AI:95:LYS:HZ3	9:AI:96:LEU:HD12	1.73	0.54
1:AA:815:A:H62	1:AA:1509:C:H1'	1.73	0.54
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.08	0.54
36:DA:2105:C:C2'	36:DA:2106:G:H5'	2.38	0.54
49:DR:82:GLU:O	49:DR:86:ARG:HG3	2.08	0.54
36:DA:1943:U:O2	36:DA:1943:U:C2'	2.56	0.54
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.43	0.54
1:AA:514:C:H2'	1:AA:515:G:C8	2.40	0.54
36:BA:1675:C:H2'	36:BA:1676:A:O4'	2.07	0.54
2:AB:208:ILE:O	2:AB:212:GLN:HB2	2.08	0.54
25:CY:441:SER:O	25:CY:449:THR:HA	2.08	0.54
1:CA:662:G:H2'	1:CA:663:A:C8	2.43	0.54
36:BA:569:U:C4	36:BA:570:G:C6	2.95	0.54
29:D3:40:THR:OG1	29:D3:43:ILE:HG12	2.07	0.54
1:CA:1270:C:H2'	1:CA:1271:G:C8	2.43	0.54
36:DA:2849:U:H1'	36:DA:2866:U:H6	1.73	0.54
2:CB:235:SER:O	2:CB:237:ALA:N	2.36	0.54
56:BY:105:ALA:C	56:BY:107:ASP:H	2.11	0.54
1:CA:710:G:O2'	1:CA:711:G:H5'	2.08	0.54
50:BS:38:GLN:O	50:BS:39:ILE:HG13	2.07	0.54
25:AY:137:ASN:HD21	25:AY:263:ALA:CB	2.21	0.54
36:BA:222:A:H5''	36:BA:421:U:OP1	2.07	0.54
1:CA:824:C:H2'	1:CA:825:G:H8	1.72	0.54
41:DF:114:VAL:HG21	41:DF:202:PHE:CE1	2.43	0.54
1:CA:67:C:H2'	1:CA:68:G:C8	2.43	0.54
6:AF:98:LEU:HD13	6:AF:101:ALA:HB2	1.90	0.54
30:B4:39:CYS:O	30:B4:42:PHE:CE2	2.61	0.54
25:CY:319:ASP:HB2	25:CY:325:LEU:HD12	1.90	0.53
1:CA:1347:G:C2'	1:CA:1348:U:OP2	2.56	0.53
49:DR:106:GLY:O	49:DR:107:ASP:HB3	2.08	0.53
40:BE:203:LYS:HG3	40:BE:204:ALA:N	2.22	0.53
36:BA:1019:U:O2'	36:BA:1021:A:H2	1.91	0.53
47:DP:126:VAL:HG12	47:DP:148:LEU:HD21	1.89	0.53
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.38	0.53
51:DT:102:ILE:HB	51:DT:110:ILE:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:50:LEU:O	34:D8:52:LYS:N	2.39	0.53
36:DA:107:C:H2'	36:DA:108:U:C6	2.42	0.53
2:CB:24:TRP:HA	2:CB:190:THR:O	2.08	0.53
1:AA:542:G:H5'	4:AD:41:GLY:HA2	1.90	0.53
40:DE:50:GLY:HA2	40:DE:78:LEU:HB3	1.89	0.53
36:BA:1516:C:O2'	36:BA:1517:G:H5''	2.07	0.53
1:CA:424:G:O2'	1:CA:425:G:H5'	2.08	0.53
36:DA:2713:A:C3'	36:DA:2714:G:C5'	2.86	0.53
43:BH:44:VAL:O	43:BH:46:GLU:HG2	2.08	0.53
9:AI:17:VAL:HG13	9:AI:63:ILE:HG12	1.89	0.53
25:CY:78:ARG:NH1	25:CY:78:ARG:HG3	2.23	0.53
19:CS:67:VAL:CG1	30:D4:50:VAL:HG22	2.38	0.53
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.08	0.53
57:DZ:9:TYR:HE1	57:DZ:61:LEU:HD22	1.71	0.53
18:CR:87:ARG:CB	18:CR:87:ARG:HH11	2.21	0.53
41:BF:157:VAL:HG21	41:BF:194:MET:HG2	1.90	0.53
19:CS:44:MET:HB3	19:CS:47:HIS:HD2	1.73	0.53
1:AA:769:G:O2'	1:AA:770:C:H5'	2.07	0.53
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.88	0.53
52:BU:52:ARG:O	52:BU:55:ARG:HG2	2.09	0.53
1:AA:483:C:C3'	1:AA:484:G:H5''	2.36	0.53
12:CL:28:LYS:O	12:CL:30:ALA:N	2.41	0.53
57:DZ:40:ASP:CG	57:DZ:42:VAL:HG12	2.29	0.53
38:BC:101:ILE:HG23	38:BC:128:LEU:CD2	2.37	0.53
36:BA:1718:G:C8	36:BA:1718:G:H5'	2.37	0.53
36:DA:883:G:H2'	36:DA:884:C:O4'	2.08	0.53
37:DB:94:C:H2'	37:DB:95:C:C6	2.43	0.53
56:DY:31:LEU:HB2	56:DY:32:PRO:HA	1.89	0.53
8:AH:87:SER:OG	8:AH:92:ARG:HA	2.07	0.53
38:DC:4:HIS:CE1	38:DC:8:TYR:HE2	2.26	0.53
34:D8:43:GLN:O	34:D8:44:LYS:HD2	2.08	0.53
36:BA:2377:A:O2'	36:BA:2378:A:H5'	2.07	0.53
28:B2:16:LEU:O	28:B2:20:GLU:HB3	2.09	0.53
39:DD:186:HIS:HD2	39:DD:188:GLU:H	1.56	0.53
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.23	0.53
36:DA:389:G:H22	47:DP:72:PRO:HD3	1.72	0.53
49:BR:94:TYR:H	49:BR:94:TYR:HD1	1.54	0.53
37:BB:15:A:H1'	37:BB:110:G:C5	2.43	0.53
49:DR:73:VAL:O	49:DR:76:VAL:HG12	2.08	0.53
27:B1:47:GLN:HG3	36:BA:2091:U:O2'	2.08	0.53
53:DV:64:HIS:ND1	53:DV:92:THR:HG22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:10:ALA:O	34:B8:14:VAL:HG12	2.09	0.53
39:BD:275:LYS:C	39:BD:275:LYS:HD2	2.28	0.53
6:AF:80:ARG:HH11	6:AF:88:VAL:HB	1.73	0.53
8:CH:40:ALA:HA	8:CH:45:ILE:HG13	1.90	0.53
45:DN:50:ASP:O	45:DN:52:VAL:HG23	2.07	0.53
43:BH:96:ALA:HB1	43:BH:103:LEU:HD11	1.90	0.53
44:DJ:10:UNK:O	44:DJ:11:UNK:CB	2.56	0.53
17:CQ:7:THR:O	17:CQ:23:VAL:HG13	2.08	0.53
36:BA:2130:U:OP1	38:BC:6:LYS:HB2	2.08	0.53
3:CC:54:ARG:HD3	3:CC:69:HIS:ND1	2.23	0.53
10:CJ:56:HIS:O	10:CJ:58:ASP:O	2.26	0.53
36:DA:198:C:H2'	36:DA:199:A:H5''	1.89	0.53
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.90	0.53
1:CA:1119:C:O2'	1:CA:1120:G:H5'	2.07	0.53
42:DG:135:LEU:H	42:DG:135:LEU:HD12	1.74	0.53
13:AM:121:LYS:HZ3	13:AM:121:LYS:HB2	1.73	0.53
28:B2:25:VAL:HG22	28:B2:60:LEU:HD13	1.89	0.53
36:BA:2611:U:H3'	36:BA:2611:U:OP2	2.08	0.53
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.08	0.53
36:BA:2650:U:O2'	36:BA:2651:C:H5'	2.08	0.53
42:DG:34:LEU:HD11	42:DG:100:TRP:CH2	2.43	0.53
36:BA:2131:G:H5'	36:BA:2133:G:C1'	2.39	0.53
1:CA:1516:G:N1	1:CA:1519:A:OP2	2.41	0.53
52:BU:95:LEU:HD12	53:BV:11:GLN:HG3	1.89	0.53
29:B3:31:LEU:O	29:B3:32:GLN:HB2	2.08	0.53
50:DS:92:TYR:CG	50:DS:93:LYS:N	2.77	0.53
32:D6:54:ILE:HD13	36:DA:2420:C:H5'	1.90	0.53
32:B6:11:LEU:HA	32:B6:54:ILE:OXT	2.07	0.53
32:B6:10:LEU:HD12	34:B8:34:TRP:HB2	1.88	0.53
52:DU:79:PHE:CE1	52:DU:83:LEU:HD11	2.43	0.53
53:DV:39:LEU:HD22	53:DV:39:LEU:N	2.23	0.53
32:B6:47:THR:CG2	32:B6:49:HIS:CE1	2.91	0.53
3:AC:154:SER:OG	3:AC:155:GLY:N	2.41	0.53
56:DY:51:VAL:C	56:DY:53:PRO:HD2	2.28	0.53
6:CF:71:ARG:HH11	6:CF:71:ARG:HG3	1.73	0.53
34:D8:51:ALA:HA	34:D8:54:GLU:CD	2.27	0.53
13:AM:6:GLY:O	13:AM:8:GLU:N	2.41	0.53
20:CT:33:ILE:HG21	20:CT:63:ILE:HG12	1.90	0.53
36:BA:1486:A:H2'	36:BA:1487:G:H8	1.74	0.53
40:DE:48:GLN:HE21	40:DE:78:LEU:HD22	1.72	0.53
4:AD:100:ARG:HB3	4:AD:102:ASP:OD1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:520:G:H2'	36:DA:521:G:H8	1.72	0.53
4:CD:173:TRP:CE2	4:CD:189:PRO:HB3	2.43	0.53
40:DE:7:VAL:HG12	40:DE:27:LEU:HB3	1.90	0.53
46:BO:34:THR:O	46:BO:35:VAL:C	2.46	0.53
1:CA:1026:G:C3'	1:CA:1027:C:H5'	2.38	0.53
36:DA:1791:A:H5'	39:DD:206:LEU:HD12	1.90	0.53
1:CA:555:C:H2'	1:CA:556:C:H6	1.72	0.53
12:AL:25:PRO:C	12:AL:27:LEU:N	2.58	0.53
22:AV:17:C:O2'	22:AV:18:G:OP2	2.25	0.53
44:DJ:20:UNK:CB	44:DJ:88:UNK:O	2.56	0.53
56:BY:31:LEU:HD23	56:BY:36:ALA:H	1.74	0.53
34:B8:43:GLN:O	34:B8:44:LYS:HD2	2.07	0.53
36:DA:191:A:H2'	36:DA:192:C:C6	2.44	0.53
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.41	0.53
36:BA:2839:G:H2'	36:BA:2840:C:C6	2.43	0.53
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.91	0.53
49:BR:12:ARG:HB3	49:BR:16:HIS:HD2	1.72	0.53
39:BD:241:PRO:O	39:BD:242:ARG:CB	2.55	0.53
37:DB:61:G:O2'	37:DB:62:C:H5'	2.08	0.53
1:AA:1387:G:C6	1:AA:1388:C:N4	2.76	0.53
36:DA:1509(A):A:H2'	36:DA:1509(B):A:C8	2.42	0.53
36:BA:1509(A):A:H2'	36:BA:1509(B):A:C8	2.43	0.53
41:DF:107:LYS:O	41:DF:110:LEU:N	2.42	0.53
38:BC:74:ARG:HG2	38:BC:74:ARG:HH11	1.73	0.53
8:AH:114:THR:HG21	8:AH:129:VAL:HG23	1.89	0.53
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE2	2.42	0.53
15:CO:29:VAL:HG11	15:CO:67:LEU:HD21	1.91	0.53
42:BG:173:LEU:HD23	42:BG:176:LEU:HD12	1.90	0.53
36:DA:1713:U:O2'	36:DA:1714:G:H5'	2.08	0.53
47:BP:132:LYS:O	47:BP:136:GLU:HG2	2.09	0.53
6:AF:14:LEU:HD22	6:AF:18:GLN:HE21	1.73	0.53
6:AF:22:GLU:C	6:AF:24:GLU:H	2.10	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.43	0.53
1:CA:841:U:H3'	1:CA:848:C:H5'	1.90	0.53
1:CA:393:A:O2'	1:CA:394:G:H5'	2.08	0.53
43:DH:26:VAL:HG11	43:DH:75:ALA:O	2.08	0.53
36:BA:1404:C:O2'	36:BA:1405:U:H5'	2.08	0.53
33:D7:12:ARG:HG3	33:D7:12:ARG:HH11	1.73	0.53
36:DA:2061:G:H5'	36:DA:2503:A:N1	2.23	0.53
38:DC:101:ILE:O	38:DC:105:LEU:HB2	2.08	0.53
30:D4:8:LYS:O	30:D4:9:LEU:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:15:ILE:C	25:CY:101:LEU:HD22	2.28	0.53
43:BH:155:SER:O	43:BH:157:TYR:N	2.42	0.53
55:DX:12:VAL:O	55:DX:13:LEU:HB2	2.08	0.53
36:DA:2309:A:H2'	36:DA:2310:A:H5''	1.89	0.53
50:DS:95:HIS:CD2	50:DS:96:GLY:H	2.27	0.53
34:D8:33:ASN:HA	34:D8:36:LYS:HG3	1.89	0.53
36:BA:1278:A:O3'	49:BR:34:ILE:HG23	2.08	0.53
32:B6:35:GLU:HB3	32:B6:51:GLU:HB2	1.91	0.53
56:DY:8:LYS:HE2	56:DY:72:VAL:O	2.08	0.53
53:DV:19:LYS:HG2	53:DV:94:LEU:CB	2.38	0.53
45:DN:22:THR:O	45:DN:25:ARG:HB2	2.08	0.53
47:DP:127:ALA:HB3	47:DP:130:PHE:CZ	2.42	0.53
36:BA:637:A:OP2	47:BP:115:LEU:HB2	2.08	0.53
51:DT:65:LYS:HZ1	51:DT:65:LYS:HA	1.69	0.53
25:AY:421:GLN:O	25:AY:421:GLN:NE2	2.41	0.53
51:DT:50:ILE:CG1	51:DT:102:ILE:HD11	2.37	0.53
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CG2	2.39	0.53
10:AJ:16:LEU:HD12	10:AJ:70:ARG:HD3	1.91	0.53
39:DD:35:LYS:CD	39:DD:36:PRO:N	2.67	0.53
25:CY:548:GLU:HG2	25:CY:548:GLU:O	2.07	0.53
3:AC:95:THR:O	3:AC:97:LYS:N	2.42	0.53
57:DZ:163:LEU:HD23	57:DZ:163:LEU:N	2.14	0.53
40:BE:50:GLY:HA2	40:BE:78:LEU:HB3	1.90	0.53
43:BH:50:VAL:HG12	43:BH:51:ARG:N	2.23	0.53
36:BA:285:C:O2'	36:BA:286:C:H5''	2.09	0.53
43:DH:83:TYR:CB	43:DH:135:GLY:H	2.21	0.53
43:DH:85:LYS:NZ	43:DH:87:LEU:HG	2.23	0.53
10:AJ:61:GLU:OE2	14:AN:49:HIS:CE1	2.59	0.53
2:AB:7:VAL:O	2:AB:11:LEU:HG	2.07	0.53
39:DD:145:VAL:HG13	39:DD:191:ALA:HB2	1.90	0.53
46:BO:2:ILE:HD11	46:BO:82:ASN:HD22	1.72	0.53
9:AI:54:ASP:O	9:AI:56:LEU:N	2.40	0.53
38:BC:73:VAL:HG13	38:BC:158:LYS:HG2	1.90	0.53
38:DC:218:THR:HG22	38:DC:219:MET:SD	2.48	0.53
36:DA:688:U:H2'	36:DA:689:A:H8	1.74	0.53
9:AI:33:PHE:C	9:AI:35:GLU:H	2.11	0.53
35:B9:1:MET:HG3	36:BA:2478:A:OP2	2.08	0.53
7:AG:37:ASN:ND2	9:AI:40:LEU:HA	2.24	0.53
28:B2:50:ILE:C	28:B2:52:ASP:H	2.11	0.53
36:DA:1678:G:N2	36:DA:1989:G:N2	2.56	0.53
36:BA:1116:C:H2'	36:BA:1117:G:H8	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:158:ILE:O	4:AD:162:LEU:HB2	2.08	0.53
6:AF:2:ARG:HD3	6:AF:92:LYS:CE	2.38	0.53
36:BA:528:A:C2	36:BA:2043:C:H4'	2.44	0.53
36:BA:1132:A:C4	36:BA:1133:U:C5	2.96	0.53
16:AP:74:LEU:CD2	16:AP:79:VAL:HG21	2.38	0.53
19:CS:6:LYS:C	19:CS:7:LYS:HE3	2.27	0.53
1:AA:1010:G:H1	1:AA:1020:U:H1'	1.71	0.53
41:DF:50:SER:CB	41:DF:94:PRO:HD3	2.38	0.53
1:CA:936:C:H2'	1:CA:937:A:O4'	2.08	0.53
48:DQ:79:LEU:HD23	48:DQ:80:GLU:H	1.72	0.53
1:CA:603:U:H2'	1:CA:604:G:H8	1.73	0.53
30:D4:22:ILE:HG22	30:D4:23:GLU:N	2.23	0.53
36:DA:52:A:O2'	36:DA:53:A:H5'	2.09	0.53
55:DX:23:GLU:O	55:DX:25:LYS:N	2.40	0.53
25:CY:392:GLU:HG3	25:CY:393:ASP:OD2	2.08	0.53
12:AL:45:PRO:HG2	12:AL:51:ALA:HB3	1.90	0.53
5:CE:143:ARG:HH12	8:CH:77:GLU:CD	2.11	0.53
1:CA:646:U:H2'	1:CA:647:C:C6	2.44	0.53
56:DY:105:ALA:C	56:DY:107:ASP:H	2.12	0.53
37:BB:54:G:O2'	37:BB:55:U:H5'	2.07	0.53
14:AN:32:SER:O	14:AN:40:CYS:HA	2.08	0.53
4:CD:33:MET:O	4:CD:37:PRO:HG3	2.08	0.53
39:DD:176:ARG:HG2	39:DD:176:ARG:HH11	1.72	0.53
48:BQ:58:PHE:O	48:BQ:58:PHE:HD1	1.92	0.53
18:CR:55:ARG:HH11	18:CR:55:ARG:HG3	1.73	0.53
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.07	0.53
30:D4:25:TYR:O	30:D4:26:SER:HB3	2.08	0.53
42:DG:63:ILE:HG23	42:DG:143:GLU:HB2	1.90	0.53
42:DG:51:ARG:CZ	42:DG:53:LEU:CD2	2.85	0.53
25:AY:71:THR:HA	25:AY:79:ILE:O	2.09	0.53
36:DA:322:A:H5'	36:DA:340:A:H1'	1.90	0.53
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.44	0.53
1:CA:815:A:H62	1:CA:1509:C:H1'	1.72	0.53
3:AC:82:GLU:N	3:AC:82:GLU:OE1	2.42	0.53
42:BG:97:ASP:O	42:BG:101:ILE:HG13	2.08	0.53
29:B3:9:VAL:O	29:B3:31:LEU:HD21	2.09	0.53
50:DS:98:VAL:HG12	50:DS:100:ALA:N	2.21	0.53
32:B6:27:LYS:HB3	32:B6:32:ASN:ND2	2.23	0.53
49:DR:100:LEU:HD22	49:DR:100:LEU:N	2.20	0.53
51:BT:28:VAL:HG21	51:BT:46:GLU:OE1	2.07	0.53
1:AA:192:U:H2'	1:AA:193:C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:64:ILE:HG22	41:BF:76:GLY:O	2.08	0.53
1:AA:1234:C:H1'	1:AA:1364:U:C6	2.43	0.53
36:DA:665:C:H2'	36:DA:666:G:H8	1.74	0.53
13:AM:15:VAL:HA	13:AM:18:ALA:CB	2.37	0.53
2:CB:51:LEU:HD23	2:CB:55:PHE:HE2	1.74	0.53
38:DC:71:LYS:HG2	38:DC:72:GLN:N	2.15	0.53
25:AY:261:GLY:CA	25:AY:267:LYS:O	2.56	0.53
1:AA:1442:G:H1	1:AA:1461:G:H21	1.56	0.53
49:BR:106:GLY:O	49:BR:107:ASP:HB3	2.08	0.53
41:DF:123:LEU:CD1	41:DF:192:LEU:HD22	2.39	0.53
41:BF:123:LEU:CD1	41:BF:192:LEU:HD22	2.39	0.53
14:AN:29:ARG:HG3	14:AN:29:ARG:NH1	2.21	0.53
48:BQ:24:GLY:O	48:BQ:102:VAL:HG23	2.07	0.53
1:AA:1128:C:H4'	1:AA:1148:U:O2	2.09	0.53
19:AS:29:ARG:O	19:AS:31:ILE:N	2.41	0.53
54:BW:36:LEU:HD11	54:BW:47:VAL:HG12	1.91	0.53
9:CI:35:GLU:HA	9:CI:38:GLN:HB2	1.90	0.53
1:CA:376:G:H2'	1:CA:377:G:C8	2.36	0.53
4:CD:2:GLY:O	4:CD:4:TYR:N	2.41	0.53
36:DA:2481:G:O2'	36:DA:2482:G:P	2.67	0.53
1:AA:392:G:H2'	1:AA:393:A:H8	1.72	0.53
43:BH:19:VAL:HG12	43:BH:20:ALA:N	2.20	0.53
36:BA:175:G:O2'	36:BA:176:G:H5'	2.09	0.53
57:DZ:85:HIS:C	57:DZ:85:HIS:ND1	2.61	0.53
9:CI:45:ALA:O	9:CI:48:GLU:HB2	2.09	0.53
33:B7:35:ARG:HG2	33:B7:35:ARG:NH1	2.22	0.53
36:DA:1035:U:H2'	36:DA:1036:G:C8	2.44	0.53
36:DA:1132:A:H2'	36:DA:1133:U:C6	2.43	0.53
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.36	0.53
42:BG:129:GLY:O	42:BG:130:ASN:CG	2.46	0.53
1:AA:821:G:H2'	1:AA:822:C:H6	1.74	0.53
1:AA:404:U:H2'	1:AA:405:U:C6	2.42	0.53
36:DA:2208:A:H1'	36:DA:2219:G:C4	2.43	0.53
36:BA:1461:G:O2'	36:BA:1462:C:H5'	2.08	0.53
22:CV:29:G:N2	22:CV:42:C:H1'	2.23	0.53
1:AA:636:U:H2'	1:AA:637:G:C8	2.44	0.53
1:CA:392:G:H2'	1:CA:393:A:H8	1.73	0.53
36:DA:229:A:OP1	36:DA:229:A:H8	1.90	0.53
36:DA:1149:G:H2'	36:DA:1150:C:C6	2.44	0.53
1:CA:920:U:H1'	1:CA:1080:A:C2	2.43	0.53
36:BA:2037:G:H2'	36:BA:2038:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.90	0.53
40:BE:176:ILE:HG22	40:BE:178:GLU:HB3	1.90	0.53
25:CY:689:LYS:HG3	25:CY:690:GLY:N	2.24	0.53
42:DG:152:LEU:H	42:DG:152:LEU:HD23	1.73	0.53
25:AY:389:LEU:HD12	25:AY:389:LEU:N	2.23	0.53
6:AF:83:ASP:N	6:AF:83:ASP:OD1	2.41	0.53
51:DT:36:GLU:HG2	51:DT:36:GLU:O	2.07	0.53
44:DJ:62:UNK:C	44:DJ:64:UNK:N	2.70	0.53
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.43	0.53
36:DA:58:G:H1	36:DA:69:C:H42	1.56	0.53
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.73	0.53
41:DF:40:GLN:OE1	41:DF:184:TYR:HB2	2.08	0.53
25:CY:103:GLY:HA2	25:CY:130:VAL:HG22	1.91	0.53
25:CY:88:VAL:O	25:CY:90:PHE:HD1	1.90	0.53
25:CY:92:ILE:CG2	25:CY:93:GLU:N	2.71	0.53
25:AY:86:GLY:O	25:AY:87:HIS:HB3	2.08	0.53
41:DF:170:LEU:HB2	41:DF:173:VAL:CB	2.38	0.53
25:CY:193:GLY:HA3	25:CY:266:ASN:CB	2.37	0.53
45:BN:46:VAL:CG1	45:BN:47:ALA:H	2.15	0.53
53:BV:18:LEU:HD13	53:BV:19:LYS:H	1.73	0.53
29:B3:56:VAL:CG1	29:B3:57:GLU:N	2.71	0.53
34:D8:33:ASN:H	34:D8:33:ASN:HD22	0.71	0.53
41:BF:195:ASP:HB3	41:BF:198:ALA:CB	2.38	0.53
25:AY:294:PRO:HG2	25:AY:295:GLU:OE2	2.08	0.53
53:DV:40:LEU:N	53:DV:40:LEU:HD22	2.24	0.53
50:DS:15:ARG:O	50:DS:18:ILE:HG13	2.08	0.53
36:BA:1017:G:H2'	36:BA:1018:C:H6	1.73	0.53
36:DA:1277:G:O2'	49:DR:24:GLN:HG2	2.07	0.53
32:D6:47:THR:CG2	32:D6:49:HIS:CE1	2.92	0.53
2:CB:82:ARG:O	2:CB:86:GLU:HG3	2.07	0.53
36:BA:2345:G:C4'	36:BA:2346:A:H5'	2.39	0.53
51:DT:125:ARG:CA	51:DT:125:ARG:HH11	2.11	0.53
36:BA:947:G:H2'	36:BA:948:G:C8	2.43	0.53
51:BT:23:ARG:HB2	51:BT:24:PRO:HD2	1.90	0.53
51:BT:50:ILE:HA	51:BT:99:LEU:CD1	2.39	0.53
49:DR:38:VAL:HB	49:DR:39:PRO:CD	2.31	0.53
36:DA:2787:C:H1'	40:DE:61:ARG:HG3	1.90	0.53
2:AB:24:TRP:HA	2:AB:190:THR:O	2.09	0.53
2:AB:54:THR:O	2:AB:58:ILE:HG13	2.08	0.53
46:DO:104:ARG:HH21	51:DT:33:LYS:HE3	1.73	0.53
36:BA:1463:C:H2'	36:BA:1464:C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:50:VAL:HG12	43:DH:51:ARG:N	2.23	0.53
1:AA:1404:C:H1'	1:AA:1499:A:C6	2.43	0.53
37:BB:65:C:H2'	37:BB:109:C:H41	1.72	0.53
10:AJ:63:PHE:CD1	10:AJ:63:PHE:N	2.72	0.53
39:DD:70:TRP:CD1	39:DD:70:TRP:C	2.81	0.53
1:CA:626:U:H5'	1:CA:627:G:OP2	2.08	0.53
19:AS:44:MET:HB3	19:AS:47:HIS:HD2	1.74	0.53
19:AS:43:GLU:HB2	19:AS:44:MET:SD	2.48	0.53
56:DY:31:LEU:HD23	56:DY:36:ALA:H	1.72	0.53
36:DA:1669:A:H4'	36:DA:2549:G:H4'	1.90	0.53
36:BA:883:G:H2'	36:BA:884:C:O4'	2.08	0.53
43:DH:89:ILE:HD13	43:DH:94:TYR:HB3	1.90	0.53
31:D5:45:VAL:HG22	31:D5:51:TYR:CD2	2.44	0.53
56:BY:86:ARG:CZ	56:BY:95:LYS:HD2	2.39	0.53
25:AY:680:PRO:O	25:AY:682:GLN:N	2.38	0.53
42:BG:55:LYS:HA	42:BG:58:GLN:HG3	1.91	0.53
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.61	0.53
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.39	0.53
16:CP:1:MET:HE3	16:CP:65:GLN:HG3	1.91	0.53
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.08	0.53
36:BA:65:C:H5'	55:BX:71:GLY:HA3	1.90	0.53
46:DO:87:ILE:H	46:DO:87:ILE:HD13	1.74	0.53
56:BY:84:ARG:HD2	56:BY:97:ARG:HD2	1.89	0.53
36:BA:2192:G:C2'	36:BA:2193:G:H5''	2.38	0.53
31:B5:16:ARG:HH11	31:B5:20:ARG:HH12	1.57	0.53
36:DA:2230:G:H2'	36:DA:2231:C:H6	1.73	0.53
36:BA:2704:C:O2'	36:BA:2705:A:H5'	2.08	0.53
36:DA:222:A:H5''	36:DA:421:U:OP1	2.07	0.53
2:AB:69:LEU:HD12	2:AB:70:PHE:N	2.23	0.53
3:CC:186:PHE:HA	3:CC:198:VAL:O	2.09	0.53
1:CA:502:G:H2'	1:CA:503:C:O4'	2.07	0.53
1:AA:1392:G:N2	1:AA:1502:A:H8	2.07	0.53
55:BX:12:VAL:HB	55:BX:17:ALA:CB	2.20	0.53
25:CY:313:ALA:CA	25:CY:328:ILE:HG22	2.37	0.53
25:CY:329:ARG:HG2	25:CY:331:TYR:OH	2.08	0.53
25:AY:117:GLN:HA	25:AY:119:GLU:HG3	1.90	0.53
36:DA:2131:G:H5'	36:DA:2133:G:C1'	2.39	0.53
36:BA:2011:U:H2'	36:BA:2012:G:H5'	1.91	0.53
53:BV:39:LEU:HD22	53:BV:39:LEU:N	2.23	0.53
57:BZ:153:SER:HB2	57:BZ:163:LEU:CD1	2.39	0.53
30:B4:1:MET:HA	30:B4:6:HIS:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:95:ARG:O	42:BG:96:ARG:HG2	2.08	0.53
32:D6:35:GLU:HB3	32:D6:51:GLU:HB2	1.88	0.53
34:D8:37:SER:O	34:D8:38:GLY:C	2.47	0.53
36:BA:363(A):A:H2'	36:BA:363(B):G:C8	2.44	0.53
39:BD:133:LEU:HD22	39:BD:165:ILE:HD11	1.90	0.53
36:BA:1141:U:H5''	45:BN:63:THR:HG23	1.89	0.53
45:DN:62:VAL:HG13	45:DN:62:VAL:O	2.08	0.53
1:AA:1037:C:H2'	1:AA:1038:C:N3	2.23	0.53
36:BA:1815:A:H1'	36:BA:1817:G:C8	2.44	0.53
22:AV:72:C:H2'	22:AV:72:C:O2	2.09	0.53
45:DN:120:LEU:CD1	45:DN:122:VAL:HG23	2.38	0.53
10:CJ:4:ILE:HB	10:CJ:74:ILE:HG13	1.91	0.53
5:CE:101:ILE:N	5:CE:101:ILE:HD13	2.23	0.53
39:BD:92:ILE:HD13	39:BD:92:ILE:H	1.73	0.53
40:BE:49:LEU:CD2	40:BE:49:LEU:N	2.71	0.53
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.08	0.53
4:AD:173:TRP:CE2	4:AD:189:PRO:HB3	2.44	0.53
1:CA:521:G:H4'	12:CL:73:GLU:HG3	1.89	0.53
40:BE:7:VAL:HG12	40:BE:27:LEU:HB3	1.91	0.53
43:DH:83:TYR:HB3	43:DH:135:GLY:N	2.22	0.53
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.43	0.53
51:DT:11:GLU:H	51:DT:11:GLU:CD	2.12	0.53
25:AY:289:ILE:HG13	25:AY:331:TYR:CG	2.44	0.53
51:DT:42:ILE:HG13	51:DT:42:ILE:O	2.08	0.53
36:BA:1438:U:O2'	36:BA:1439:A:H5'	2.09	0.53
52:DU:50:ARG:HH21	53:DV:70:ILE:CG2	2.21	0.53
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.23	0.53
57:BZ:79:ARG:O	57:BZ:80:ARG:CB	2.54	0.53
34:B8:4:MET:HE1	34:B8:61:LEU:HD22	1.89	0.53
36:DA:1827:C:H2'	36:DA:1828:G:O4'	2.09	0.53
43:DH:54:ARG:HG2	43:DH:54:ARG:HH11	1.74	0.53
52:BU:59:ARG:O	52:BU:62:ILE:N	2.41	0.53
36:BA:1491:G:O2'	39:BD:101:GLU:HB2	2.09	0.53
36:BA:1719:G:C2'	36:BA:1720:U:H5'	2.37	0.53
41:DF:89:VAL:O	41:DF:91:GLY:N	2.31	0.53
4:AD:127:THR:HG22	4:AD:147:ALA:O	2.08	0.53
49:BR:82:GLU:O	49:BR:86:ARG:HG3	2.08	0.53
38:BC:4:HIS:CE1	38:BC:8:TYR:HE2	2.26	0.53
37:BB:112:U:H2'	37:BB:113:G:C8	2.41	0.53
1:CA:109:A:C6	1:CA:326:G:C6	2.97	0.53
56:BY:2:ARG:CD	56:BY:3:VAL:HG23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	2.08	0.53
1:AA:662:G:H2'	1:AA:663:A:C8	2.44	0.53
49:BR:4:LEU:C	49:BR:6:SER:N	2.62	0.53
36:DA:2839:G:H2'	36:DA:2840:C:C6	2.43	0.53
19:CS:37:ARG:O	19:CS:70:LYS:HD2	2.09	0.53
19:CS:36:ARG:NH1	19:CS:52:TYR:O	2.41	0.53
26:B0:7:LEU:CD1	48:BQ:85:LYS:HE2	2.38	0.53
36:BA:1773:A:H2	36:BA:1977:A:N1	2.06	0.53
36:DA:748:G:O6	36:DA:751:A:H4'	2.09	0.53
38:BC:29:LEU:HD23	38:BC:29:LEU:C	2.28	0.53
36:BA:1064:C:H42	36:BA:1074:G:H1	1.57	0.53
38:DC:197:LEU:O	38:DC:200:HIS:N	2.41	0.53
4:AD:154:ASN:O	4:AD:155:LEU:HD23	2.08	0.53
36:DA:2502:G:H5''	36:DA:2503:A:H5''	1.90	0.53
36:BA:444:C:H2'	36:BA:445:C:C6	2.44	0.53
36:BA:2488:A:O2'	36:BA:2489:G:H5'	2.09	0.53
36:BA:1654:A:O2'	40:BE:113:PHE:O	2.26	0.53
1:AA:1119:C:O2'	1:AA:1120:G:H5'	2.09	0.53
1:AA:236:G:O2'	1:AA:237:C:H5'	2.08	0.53
21:CU:8:THR:O	21:CU:12:LYS:HB2	2.08	0.53
40:DE:95:ILE:N	40:DE:95:ILE:HD13	2.24	0.53
30:B4:13:ARG:HB3	30:B4:13:ARG:HH11	1.73	0.53
36:BA:613:G:H5'	36:BA:613:G:C8	2.41	0.53
57:DZ:14:LYS:O	57:DZ:16:SER:N	2.41	0.53
30:B4:49:PHE:O	30:B4:50:VAL:O	2.27	0.53
25:AY:122:TRP:C	25:AY:122:TRP:CD1	2.82	0.53
25:AY:664:GLN:HG2	36:BA:2660:A:OP1	2.08	0.53
14:CN:18:VAL:HG23	14:CN:19:ARG:N	2.24	0.53
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.72	0.53
57:BZ:119:GLU:O	57:BZ:121:HIS:N	2.41	0.53
41:DF:198:ALA:O	41:DF:201:VAL:HG12	2.09	0.53
32:D6:45:LYS:HE3	36:DA:2371:G:H5''	1.90	0.53
36:DA:2346:A:H1'	36:DA:2383:G:N9	2.24	0.53
25:AY:621:ILE:CG2	25:AY:631:ILE:HG12	2.27	0.53
56:BY:61:ILE:HG12	56:BY:62:GLU:N	2.24	0.53
36:BA:2346:A:H1'	36:BA:2383:G:N9	2.23	0.53
36:DA:637:A:OP2	47:DP:115:LEU:HB2	2.09	0.53
25:AY:227:ILE:HG23	25:AY:237:PRO:CB	2.38	0.53
36:DA:1494:A:O2'	36:DA:1495:A:C5'	2.47	0.53
36:DA:2206:G:N3	36:DA:2206:G:H3'	2.24	0.53
1:AA:1004:A:H5'	1:AA:1025:U:C4	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:45:LEU:HG	47:BP:46:LYS:H	1.73	0.53
34:D8:56:GLU:HA	34:D8:59:LYS:HZ1	1.73	0.53
49:DR:10:LEU:CD2	49:DR:17:ARG:HD3	2.34	0.53
49:DR:17:ARG:O	49:DR:20:LEU:HB3	2.09	0.53
27:B1:46:LEU:HB3	27:B1:63:ALA:CA	2.35	0.53
4:AD:173:TRP:HB2	4:AD:187:ARG:O	2.09	0.53
36:DA:1657:C:O2'	36:DA:1658:C:H5'	2.07	0.53
55:DX:26:TYR:HD2	55:DX:92:LEU:HD12	1.73	0.53
12:CL:45:PRO:HG2	12:CL:51:ALA:HB3	1.90	0.53
18:AR:44:LEU:N	18:AR:44:LEU:HD12	2.24	0.53
36:BA:2329:G:H2'	36:BA:2330:G:H8	1.74	0.53
39:DD:72:LYS:HG3	39:DD:103:ARG:HH21	1.74	0.53
39:BD:261:LYS:HZ1	39:BD:263:ARG:HH22	1.56	0.53
39:DD:205:VAL:O	39:DD:206:LEU:C	2.46	0.53
36:DA:2467:C:O2	48:DQ:124:LYS:NZ	2.41	0.53
42:BG:77:ILE:CG2	42:BG:77:ILE:O	2.56	0.53
47:BP:75:ILE:CG2	47:BP:77:ARG:HH21	2.22	0.53
38:BC:182:PRO:HD2	38:BC:185:LYS:HG2	1.90	0.53
56:DY:2:ARG:N	56:DY:4:LYS:HG2	2.23	0.53
36:BA:818:G:OP2	36:BA:1187:G:O6	2.26	0.53
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.90	0.53
6:AF:86:ARG:O	6:AF:87:ARG:HG2	2.09	0.53
34:B8:39:LYS:HE3	36:BA:2365:G:O6	2.09	0.53
1:AA:502:G:H2'	1:AA:503:C:O4'	2.09	0.53
57:DZ:24:LEU:HD23	57:DZ:24:LEU:C	2.29	0.53
11:CK:108:ILE:N	11:CK:108:ILE:CD1	2.71	0.53
36:DA:2657:A:H2'	36:DA:2658:C:H5'	1.89	0.53
1:AA:1313:U:OP2	19:AS:6:LYS:CB	2.57	0.53
32:B6:40:CYS:HB2	32:B6:46:HIS:ND1	2.23	0.53
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.91	0.53
1:AA:59:A:H5''	1:AA:60:A:H5'	1.90	0.53
1:CA:1318:A:H2'	1:CA:1319:A:H5'	1.91	0.53
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.62	0.53
56:DY:84:ARG:HD2	56:DY:97:ARG:HD2	1.91	0.53
38:BC:176:VAL:HG21	38:BC:190:ILE:HD13	1.91	0.53
42:DG:173:LEU:O	42:DG:178:PHE:HB2	2.09	0.53
31:D5:16:ARG:HH11	31:D5:20:ARG:HH12	1.57	0.53
7:AG:108:ALA:C	7:AG:110:GLN:H	2.12	0.53
1:AA:673:G:H2'	1:AA:674:G:C8	2.44	0.53
30:B4:13:ARG:NH1	30:B4:13:ARG:HB3	2.24	0.53
1:AA:399:G:H2'	1:AA:400:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:65:LEU:HD13	38:BC:189:ASN:ND2	2.23	0.53
11:CK:59:TYR:CE2	11:CK:63:LEU:HD11	2.43	0.53
45:BN:51:PHE:HD1	45:BN:51:PHE:H	1.56	0.53
6:CF:83:ASP:OD1	6:CF:83:ASP:N	2.42	0.53
36:DA:2506:U:H4'	36:DA:2507:C:OP1	2.09	0.53
36:BA:428:A:H3'	36:BA:429:A:H8	1.74	0.53
25:AY:122:TRP:HH2	25:AY:256:THR:HG1	1.54	0.53
25:AY:329:ARG:HD3	25:AY:374:LEU:CD1	2.38	0.53
25:CY:490:PRO:CG	25:CY:516:PRO:HD2	2.22	0.53
36:DA:1748:G:H5'	36:DA:1748:G:C8	2.37	0.53
36:BA:185:U:H2'	36:BA:186:G:C8	2.44	0.53
47:BP:25:SER:O	47:BP:30:THR:HG23	2.09	0.53
36:DA:821:A:H2'	36:DA:946:G:H5''	1.91	0.53
29:B3:32:GLN:HG3	36:BA:1158:C:O2'	2.09	0.53
15:AO:71:GLN:O	15:AO:71:GLN:HG2	2.09	0.53
56:BY:28:LYS:C	56:BY:38:ILE:HG22	2.28	0.53
36:DA:997:G:OP1	52:DU:93:LYS:HD3	2.09	0.53
53:DV:17:GLY:O	53:DV:18:LEU:HB3	2.09	0.53
50:DS:12:PHE:O	50:DS:14:VAL:N	2.42	0.53
45:BN:22:THR:O	45:BN:25:ARG:HB2	2.09	0.53
47:DP:112:LEU:O	47:DP:128:HIS:HB2	2.08	0.53
25:CY:609:GLU:HG2	25:CY:670:VAL:HG21	1.90	0.53
46:BO:79:PHE:HB3	51:BT:70:VAL:HG11	1.90	0.53
51:DT:70:VAL:HG12	51:DT:71:GLY:N	2.24	0.53
31:B5:7:PRO:HG2	36:BA:2016:U:O2	2.08	0.53
31:B5:3:LYS:CE	36:BA:2613:U:H2'	2.38	0.53
56:BY:51:VAL:C	56:BY:53:PRO:HD2	2.29	0.53
36:DA:154(A):C:H3'	36:DA:155:U:H5''	1.90	0.53
45:DN:131:GLN:NE2	45:DN:133:GLN:N	2.57	0.53
36:DA:674:G:C1'	41:DF:74:ARG:HD3	2.32	0.53
50:BS:24:LEU:CB	50:BS:85:VAL:HG12	2.32	0.53
23:AW:31:G:C8	23:AW:31:G:H5'	2.40	0.53
8:AH:104:ARG:O	8:AH:105:ARG:C	2.46	0.53
42:BG:47:LYS:HB3	42:BG:81:LYS:HD3	1.90	0.53
25:AY:147:TRP:HB2	25:AY:151:ARG:NE	2.23	0.53
42:DG:77:ILE:HG21	42:DG:80:PHE:CB	2.35	0.53
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.43	0.53
2:AB:11:LEU:HD11	2:AB:217:ARG:NH2	2.23	0.53
26:B0:43:THR:O	26:B0:43:THR:HG23	2.08	0.53
36:BA:2329:G:H2'	36:BA:2330:G:C8	2.43	0.53
52:DU:59:ARG:O	52:DU:62:ILE:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:11:ARG:O	3:CC:13:GLY:N	2.42	0.53
9:AI:8:GLY:O	9:AI:9:ARG:HG3	2.09	0.53
25:AY:272:LEU:O	25:AY:276:VAL:HG23	2.09	0.53
39:BD:72:LYS:HE3	39:BD:101:GLU:HB3	1.90	0.53
34:D8:4:MET:HE1	34:D8:61:LEU:HD22	1.91	0.53
13:AM:56:LEU:HD13	13:AM:56:LEU:C	2.28	0.53
36:DA:688:U:C4'	36:DA:1780:A:H2	2.22	0.53
9:AI:35:GLU:HA	9:AI:38:GLN:HB2	1.90	0.53
36:DA:1675:C:H2'	36:DA:1676:A:O4'	2.09	0.53
12:AL:32:PHE:CE1	12:AL:86:ARG:HG3	2.39	0.53
1:CA:538:G:H2'	1:CA:539:A:H8	1.74	0.53
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.61	0.53
49:BR:92:GLY:HA2	49:BR:94:TYR:CE1	2.44	0.53
13:AM:34:LEU:HD13	13:AM:41:PRO:CG	2.39	0.53
41:BF:107:LYS:O	41:BF:110:LEU:N	2.42	0.53
42:BG:55:LYS:HD3	42:BG:58:GLN:HE21	1.74	0.53
43:BH:126:PRO:HG2	43:BH:127:GLU:H	1.72	0.53
36:DA:2193:G:H8	36:DA:2193:G:H5'	1.73	0.53
36:DA:777:A:H2'	36:DA:778:G:H8	1.74	0.53
36:DA:2869:G:H2'	36:DA:2870:C:C6	2.44	0.53
42:DG:172:LEU:O	42:DG:176:LEU:HD12	2.08	0.53
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.09	0.53
53:DV:66:ARG:HG2	53:DV:88:ARG:HE	1.73	0.53
1:AA:45:U:H2'	1:AA:46:G:H8	1.74	0.53
38:BC:97:GLY:H	38:BC:100:ILE:HG12	1.73	0.53
36:DA:1310:G:C2'	36:DA:1311:G:H5'	2.39	0.53
1:AA:63:C:O2'	1:AA:380:G:H4'	2.09	0.53
36:BA:2695:C:H2'	36:BA:2696:U:C6	2.43	0.53
55:DX:60:ARG:HA	55:DX:75:ASP:OD2	2.09	0.53
36:DA:654(A):G:C2'	36:DA:654(B):C:H5'	2.39	0.53
48:BQ:10:ARG:HH11	48:BQ:10:ARG:HB2	1.74	0.53
38:DC:223:VAL:O	38:DC:223:VAL:HG12	2.08	0.53
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.39	0.53
25:CY:19:ALA:O	25:CY:87:HIS:HB2	2.09	0.53
1:CA:1347:G:O2'	1:CA:1348:U:P	2.66	0.53
25:CY:539:ILE:HA	25:CY:542:VAL:CG1	2.38	0.53
9:AI:112:LYS:HA	9:AI:119:ALA:CB	2.19	0.53
23:AW:4:G:O2'	23:AW:5:G:H8	1.92	0.53
50:BS:97:ARG:O	50:BS:97:ARG:NE	2.42	0.53
25:AY:485:GLU:O	25:AY:560:VAL:HA	2.08	0.53
32:B6:27:LYS:HB3	32:B6:30:THR:CG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:219:VAL:O	2:AB:223:ILE:HG13	2.09	0.53
56:BY:8:LYS:HE2	56:BY:72:VAL:O	2.09	0.53
25:CY:181:LEU:HD12	25:CY:242:LEU:HD13	1.91	0.53
47:DP:115:LEU:HA	47:DP:134:ALA:CB	2.35	0.53
36:DA:2688:U:H1'	36:DA:2721:A:N6	2.24	0.53
25:AY:230:LYS:HZ1	25:AY:237:PRO:CA	2.19	0.53
25:AY:249:GLY:HA2	25:AY:252:ASP:CG	2.29	0.53
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.74	0.53
36:BA:665:C:H2'	36:BA:666:G:H8	1.74	0.53
36:BA:154(A):C:N4	36:BA:172:C:H42	2.06	0.53
36:DA:2811:G:H2'	36:DA:2812:G:C8	2.44	0.53
34:D8:50:LEU:C	34:D8:52:LYS:H	2.11	0.53
36:BA:1257:C:H2'	36:BA:1258:C:C6	2.43	0.53
51:BT:16:ARG:H	51:BT:79:HIS:CD2	2.20	0.53
28:D2:69:ARG:CG	28:D2:70:GLN:N	2.71	0.53
20:CT:30:LYS:HZ2	20:CT:34:LYS:HE3	1.73	0.53
40:DE:49:LEU:N	40:DE:49:LEU:CD2	2.72	0.53
36:BA:2712:U:O2'	36:BA:2712(A):A:O5'	2.27	0.53
36:DA:363(F):A:H1'	36:DA:364:C:H5	1.74	0.53
51:DT:75:ILE:CD1	51:DT:75:ILE:N	2.70	0.53
36:BA:1537:G:H2'	36:BA:1538:G:C8	2.44	0.53
25:AY:193:GLY:N	25:AY:266:ASN:HD22	2.07	0.53
30:D4:48:ARG:HH21	30:D4:49:PHE:HE1	1.57	0.53
25:AY:150:ILE:CD1	25:AY:163:VAL:HG22	2.38	0.53
20:CT:13:LEU:O	20:CT:16:HIS:N	2.42	0.53
46:BO:2:ILE:HD11	46:BO:82:ASN:HB3	1.90	0.53
18:CR:87:ARG:NH1	18:CR:87:ARG:CB	2.71	0.53
39:DD:94:LEU:HD23	39:DD:95:LEU:N	2.23	0.53
1:AA:1116:C:C2'	1:AA:1117:G:C5'	2.87	0.53
53:BV:79:VAL:O	53:BV:79:VAL:HG12	2.07	0.53
36:BA:559:G:N2	52:BU:49:HIS:CD2	2.77	0.53
15:AO:83:GLU:C	15:AO:85:LEU:N	2.57	0.53
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.53
36:DA:145:G:H2'	36:DA:146:G:C8	2.43	0.53
37:DB:91:C:H5'	48:DQ:17:LEU:O	2.09	0.53
1:CA:713:G:H2'	1:CA:714:G:C8	2.43	0.53
36:BA:2240:C:O2'	36:BA:2241:A:H5'	2.09	0.53
8:AH:103:VAL:HG23	8:AH:110:ALA:HB2	1.90	0.53
29:D3:59:VAL:CG1	29:D3:60:GLU:N	2.72	0.53
1:AA:539:A:H2'	1:AA:540:G:H8	1.72	0.53
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2415:G:H2'	36:BA:2416:C:C6	2.43	0.53
36:BA:528:A:H2	36:BA:2043:C:C4'	2.21	0.53
1:CA:1452:C:H1'	1:CA:1456:G:N2	2.24	0.53
32:D6:40:CYS:HB2	32:D6:46:HIS:ND1	2.24	0.53
7:AG:139:GLU:O	7:AG:143:ARG:HG3	2.09	0.53
46:DO:60:ALA:HA	46:DO:87:ILE:HD13	1.91	0.53
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	1.91	0.53
1:CA:45:U:H2'	1:CA:46:G:C8	2.44	0.53
1:CA:1308:U:H5''	13:CM:98:VAL:CG2	2.39	0.53
36:BA:825:C:O2'	36:BA:826:U:H5'	2.08	0.53
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.89	0.53
30:D4:55:ARG:HH21	30:D4:56:VAL:HG22	1.73	0.53
30:D4:39:CYS:SG	30:D4:42:PHE:CD2	3.01	0.53
36:BA:267:C:H2'	36:BA:268:C:H6	1.74	0.53
36:DA:845:G:OP2	36:DA:845:G:H8	1.91	0.53
1:AA:119:A:O2'	1:AA:120:A:OP2	2.20	0.53
36:BA:671:C:O2'	36:BA:672:C:H5'	2.09	0.53
39:DD:275:LYS:HD2	39:DD:275:LYS:C	2.28	0.53
51:BT:36:GLU:HG2	51:BT:36:GLU:O	2.09	0.53
1:AA:1168:A:OP1	1:AA:1168:A:H8	1.92	0.53
1:AA:711:G:O2'	1:AA:712:A:H5'	2.08	0.53
37:DB:68:C:H2'	37:DB:69:G:H8	1.73	0.53
38:DC:128:LEU:HD12	38:DC:132:LEU:CG	2.38	0.53
25:CY:15:ILE:C	25:CY:15:ILE:HD12	2.29	0.53
25:CY:315:LYS:HZ2	25:CY:317:MET:CG	2.21	0.53
25:AY:100:VAL:HG23	25:AY:329:ARG:HB2	1.88	0.53
25:CY:566:THR:O	25:CY:567:LEU:C	2.47	0.53
57:BZ:67:LEU:N	57:BZ:67:LEU:HD12	2.24	0.53
36:DA:947:G:H2'	36:DA:948:G:C8	2.44	0.53
57:BZ:154:ASP:N	57:BZ:154:ASP:OD1	2.41	0.53
36:BA:1156:A:O2'	36:BA:1157:G:OP1	2.24	0.53
25:AY:486:THR:HG23	25:AY:600:VAL:HG12	1.90	0.53
36:DA:1061:U:H4'	36:DA:1070:A:C1'	2.28	0.53
36:BA:2287:A:H2	36:BA:2346:A:C2	2.27	0.53
47:BP:127:ALA:HB3	47:BP:130:PHE:CZ	2.44	0.53
36:BA:1204:A:H61	36:BA:1240:U:H2'	1.74	0.53
28:D2:31:GLU:HB3	28:D2:53:LEU:HD11	1.90	0.53
36:BA:154(A):C:H3'	36:BA:155:U:H5''	1.91	0.53
34:D8:50:LEU:C	34:D8:53:PRO:HD2	2.29	0.53
23:AW:14:A:C3'	23:AW:15:G:C5'	2.83	0.53
5:AE:145:LYS:CA	8:AH:107:LEU:HD21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.91	0.53
51:BT:129:ARG:CG	51:BT:129:ARG:O	2.57	0.53
36:DA:1257:C:H2'	36:DA:1258:C:C6	2.44	0.53
36:DA:914:C:C2'	36:DA:915:C:H5'	2.34	0.53
1:AA:999:C:H2'	1:AA:1000:U:C6	2.44	0.53
51:BT:10:VAL:C	51:BT:12:SER:H	2.12	0.53
12:CL:47:LYS:CD	12:CL:48:PRO:HD3	2.39	0.53
41:DF:154:VAL:HG13	41:DF:191:ARG:O	2.09	0.53
13:AM:81:LEU:HD22	13:AM:81:LEU:N	2.24	0.53
12:AL:20:LYS:N	12:AL:20:LYS:HD3	2.20	0.53
17:AQ:52:LYS:CE	17:AQ:52:LYS:H	2.22	0.53
36:DA:2174:C:O2'	36:DA:2175:C:H5'	2.08	0.53
38:BC:127:LYS:O	38:BC:128:LEU:HD22	2.09	0.53
1:CA:939:G:C5'	7:CG:102:ARG:NH2	2.72	0.53
36:BA:92:A:H2'	36:BA:93:G:C8	2.44	0.53
36:DA:586:A:C2	36:DA:1254:A:C2	2.96	0.53
25:CY:592:GLU:O	25:CY:592:GLU:HG2	2.08	0.53
37:BB:94:C:H2'	37:BB:95:C:C6	2.44	0.53
20:AT:42:GLN:NE2	20:AT:42:GLN:CA	2.71	0.53
1:AA:1270:C:H2'	1:AA:1271:G:C8	2.43	0.53
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	2.24	0.53
47:DP:80:TYR:CE1	47:DP:111:ARG:HG2	2.43	0.53
36:DA:503:A:H4'	36:DA:504:U:C5'	2.39	0.53
3:CC:150:LYS:HB2	3:CC:169:ALA:CB	2.39	0.53
36:BA:2488:A:H2'	36:BA:2489:G:C8	2.44	0.53
31:D5:11:THR:OG1	36:DA:1263:U:O3'	2.25	0.53
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.74	0.53
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.90	0.53
44:DJ:153:UNK:C	44:DJ:155:UNK:N	2.72	0.53
36:DA:1655:A:C2	36:DA:2049:G:H4'	2.44	0.53
5:AE:20:GLN:O	5:AE:21:ALA:C	2.44	0.53
6:AF:47:ARG:HG2	6:AF:47:ARG:HH11	1.74	0.53
38:DC:34:ALA:HA	38:DC:40:GLU:OE2	2.08	0.53
36:BA:2735:G:H2'	36:BA:2736:G:H8	1.74	0.53
38:DC:101:ILE:HD12	38:DC:101:ILE:H	1.73	0.52
38:DC:138:LEU:HD13	38:DC:138:LEU:C	2.30	0.52
36:DA:610:G:H22	36:DA:619:G:H1'	1.74	0.52
25:AY:113:GLY:C	25:AY:115:GLU:N	2.63	0.52
25:AY:616:TYR:O	25:AY:620:VAL:HG23	2.10	0.52
25:CY:514:VAL:HG12	25:CY:515:GLU:N	2.24	0.52
25:CY:146:LEU:O	25:CY:150:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:191:ASP:O	25:CY:266:ASN:HB2	2.09	0.52
36:DA:2291:U:H2'	36:DA:2292:C:C6	2.44	0.52
50:DS:87:PHE:CG	50:DS:88:ASP:N	2.77	0.52
28:D2:10:LEU:HD22	28:D2:14:ARG:NH2	2.24	0.52
41:BF:198:ALA:O	41:BF:201:VAL:HG12	2.10	0.52
2:AB:82:ARG:O	2:AB:86:GLU:HG3	2.10	0.52
45:DN:9:VAL:HG12	45:DN:10:GLU:N	2.23	0.52
3:CC:165:THR:HG23	3:CC:165:THR:O	2.10	0.52
2:CB:219:VAL:O	2:CB:223:ILE:HG13	2.09	0.52
32:B6:37:ARG:HH22	36:BA:2286:A:H62	1.53	0.52
25:AY:217:VAL:HG12	25:AY:217:VAL:O	2.09	0.52
51:DT:28:VAL:O	51:DT:29:ARG:CD	2.57	0.52
25:AY:409:ILE:O	25:AY:459:LEU:HD11	2.09	0.52
36:BA:271(J):C:H2'	36:BA:271(J):C:O2	2.08	0.52
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.91	0.52
36:DA:1814:G:C3'	36:DA:1815:A:H5''	2.31	0.52
45:BN:16:ILE:O	45:BN:54:VAL:HA	2.09	0.52
36:DA:110:G:H2'	36:DA:111:A:H8	1.74	0.52
56:DY:17:SER:HB3	56:DY:71:LYS:HD2	1.90	0.52
47:BP:35:HIS:O	47:BP:36:LYS:HB2	2.09	0.52
36:DA:1464:C:O2'	36:DA:1528:A:C8	2.59	0.52
36:BA:1539:G:N3	36:BA:1540:U:H1'	2.23	0.52
43:DH:169:VAL:HG22	43:DH:170:ARG:N	2.20	0.52
37:DB:65:C:H2'	37:DB:109:C:H41	1.74	0.52
1:CA:999:C:H2'	1:CA:1000:U:C6	2.44	0.52
36:BA:285:C:H2'	36:BA:286:C:C5'	2.39	0.52
23:CW:51:C:H3'	23:CW:52:G:H5''	1.91	0.52
36:DA:583:G:H2'	36:DA:584:C:C6	2.42	0.52
39:DD:70:TRP:O	39:DD:73:VAL:HG23	2.08	0.52
30:D4:19:GLY:O	30:D4:20:ASN:C	2.46	0.52
36:BA:2652:C:H42	36:BA:2668:G:H1	1.55	0.52
36:DA:118:A:H1'	36:DA:178:G:O4'	2.09	0.52
27:D1:57:GLU:HG2	27:D1:58:ILE:N	2.24	0.52
1:AA:276:G:O2'	1:AA:277:C:H5'	2.09	0.52
1:AA:932:C:H4'	7:AG:4:ARG:NH2	2.23	0.52
40:DE:98:PRO:CG	40:DE:175:VAL:HG12	2.38	0.52
40:BE:95:ILE:N	40:BE:95:ILE:HD13	2.24	0.52
45:BN:65:LYS:CB	45:BN:69:GLN:HG3	2.39	0.52
53:BV:5:VAL:HG22	53:BV:6:LYS:N	2.23	0.52
1:CA:1269:A:C2'	1:CA:1270:C:H5'	2.39	0.52
49:BR:12:ARG:HB3	49:BR:16:HIS:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:20:C:H2'	36:DA:21:A:C8	2.43	0.52
36:DA:533:G:H5''	52:DU:24:TYR:CD1	2.44	0.52
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.09	0.52
39:DD:275:LYS:HD2	39:DD:275:LYS:O	2.09	0.52
41:BF:114:VAL:HG21	41:BF:202:PHE:CE1	2.44	0.52
49:DR:104:ARG:HG3	49:DR:111:LEU:HD21	1.91	0.52
2:CB:63:MET:HB3	2:CB:225:ALA:HB1	1.91	0.52
19:AS:72:GLY:O	19:AS:74:PHE:N	2.42	0.52
36:DA:2749:A:N1	36:DA:2750:A:N6	2.57	0.52
36:DA:271(J):C:H2'	36:DA:271(J):C:O2	2.09	0.52
12:AL:58:VAL:O	12:AL:65:GLU:HA	2.09	0.52
36:DA:2576:G:N3	36:DA:2576:G:H3'	2.24	0.52
36:DA:1798:U:OP2	39:DD:274:ARG:NH2	2.42	0.52
5:AE:88:LYS:HB3	5:AE:123:LEU:O	2.08	0.52
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.10	0.52
25:CY:21:ILE:CG2	25:CY:88:VAL:HG13	2.37	0.52
36:BA:2657:A:H2'	36:BA:2658:C:H5'	1.90	0.52
50:BS:87:PHE:CG	50:BS:88:ASP:N	2.77	0.52
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.07	0.52
29:B3:7:LYS:HE3	29:B3:32:GLN:O	2.09	0.52
28:D2:3:LEU:HD22	28:D2:7:ARG:NH2	2.24	0.52
2:AB:223:ILE:HG23	2:AB:226:ARG:CZ	2.39	0.52
52:DU:95:LEU:HD12	53:DV:11:GLN:HG3	1.90	0.52
25:AY:655:TYR:CZ	25:AY:659:LEU:HB2	2.43	0.52
36:DA:1012:U:C4	45:DN:28:THR:HG21	2.43	0.52
36:DA:925:C:C3'	36:DA:926:A:H5''	2.39	0.52
9:CI:40:LEU:O	9:CI:42:ARG:N	2.42	0.52
41:DF:28:ILE:N	41:DF:28:ILE:HD13	2.12	0.52
25:AY:505:GLY:O	25:AY:506:GLN:HB2	2.09	0.52
26:B0:77:ARG:NH2	36:BA:857:C:H5'	2.24	0.52
28:D2:63:VAL:HA	28:D2:66:GLU:CG	2.40	0.52
34:B8:50:LEU:C	34:B8:53:PRO:HD2	2.30	0.52
41:BF:84:VAL:C	41:BF:86:GLY:H	2.13	0.52
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.90	0.52
40:BE:68:ALA:O	40:BE:70:ALA:N	2.42	0.52
5:AE:79:GLU:CB	5:AE:93:PRO:HD2	2.37	0.52
5:AE:78:HIS:O	5:AE:93:PRO:HD3	2.10	0.52
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.24	0.52
36:DA:744:G:C2	36:DA:745:G:H1'	2.44	0.52
1:CA:738:C:H2'	1:CA:739:C:C6	2.44	0.52
36:BA:583:G:C4	36:BA:584:C:C5	2.96	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2009:G:O2'	36:BA:2010:G:H5'	2.08	0.52
36:DA:862:G:H2'	36:DA:863:A:O4'	2.10	0.52
51:BT:42:ILE:HD13	51:BT:83:ILE:HD13	1.91	0.52
41:DF:157:VAL:HG21	41:DF:194:MET:HG2	1.90	0.52
39:DD:106:ILE:HD11	39:DD:196:VAL:CG1	2.37	0.52
1:CA:439:A:H2'	1:CA:441:A:C5'	2.39	0.52
25:AY:272:LEU:HD12	25:AY:275:ALA:CB	2.39	0.52
12:CL:27:LEU:CD1	12:CL:28:LYS:H	2.21	0.52
25:AY:64:THR:C	25:AY:66:THR:H	2.12	0.52
25:AY:70:THR:HG23	25:AY:358:MET:O	2.09	0.52
36:DA:2175:C:H1'	38:DC:218:THR:O	2.09	0.52
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.72	0.52
40:BE:14:ILE:HG13	40:BE:21:VAL:CG2	2.40	0.52
7:AG:15:ASP:OD1	7:AG:44:TYR:OH	2.27	0.52
51:DT:38:ASN:C	51:DT:38:ASN:ND2	2.62	0.52
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.90	0.52
25:AY:416:LYS:HD3	25:AY:417:THR:H	1.73	0.52
36:DA:1668:A:H61	36:DA:1676:A:H61	1.56	0.52
35:D9:29:ASN:O	35:D9:29:ASN:ND2	2.41	0.52
4:AD:163:GLU:OE1	4:AD:163:GLU:HA	2.10	0.52
36:BA:134:C:H2'	36:BA:135:G:C8	2.41	0.52
46:BO:24:VAL:CG2	46:BO:30:ALA:HB3	2.39	0.52
28:B2:12:GLU:HA	28:B2:15:LYS:HG2	1.92	0.52
25:CY:381:LYS:H	25:CY:381:LYS:HD2	1.74	0.52
36:DA:1841:U:H2'	36:DA:1842:G:C8	2.44	0.52
37:BB:76:G:O3'	57:BZ:19:ARG:NH2	2.42	0.52
36:BA:684:G:O2'	36:BA:788:A:N7	2.41	0.52
13:AM:34:LEU:HD13	13:AM:41:PRO:CB	2.40	0.52
6:CF:8:ILE:CG2	6:CF:85:VAL:HG13	2.39	0.52
1:CA:1313:U:OP2	19:CS:6:LYS:CB	2.57	0.52
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.74	0.52
26:B0:48:GLY:HA3	26:B0:80:HIS:HD1	1.73	0.52
5:CE:33:VAL:HG12	5:CE:112:LEU:HD12	1.90	0.52
36:BA:1887:C:C3'	36:BA:1888:G:H5''	2.38	0.52
36:DA:557:U:H2'	36:DA:558:G:C8	2.44	0.52
43:DH:126:PRO:HG2	43:DH:127:GLU:H	1.74	0.52
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.44	0.52
36:DA:1336:A:P	55:DX:64:LYS:HE3	2.50	0.52
38:DC:77:ALA:HB3	38:DC:95:VAL:HA	1.91	0.52
36:DA:1270:C:H5''	36:DA:1271:G:C5'	2.39	0.52
42:BG:181:ARG:HH11	42:BG:181:ARG:HG3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.23	0.52
36:DA:654(A):G:O2'	36:DA:654(B):C:H5'	2.09	0.52
1:AA:1106:G:O2'	1:AA:1107:C:H5'	2.10	0.52
21:AU:10:ARG:O	21:AU:13:ILE:N	2.41	0.52
36:BA:1465:G:H2'	36:BA:1466:G:H8	1.74	0.52
1:AA:841:U:H3'	1:AA:848:C:H5'	1.90	0.52
1:AA:67:C:H2'	1:AA:68:G:C8	2.44	0.52
36:DA:444:C:H2'	36:DA:445:C:C6	2.44	0.52
36:DA:1467:C:C5	36:DA:1546:C:H2'	2.44	0.52
36:DA:41:C:H2'	36:DA:42:G:O4'	2.10	0.52
1:AA:324:G:O5'	1:AA:324:G:H8	1.91	0.52
36:DA:1767:C:O2'	36:DA:1768:U:H5'	2.09	0.52
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.91	0.52
22:CV:36:A:N3	25:CY:502:GLY:HA2	2.24	0.52
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.38	0.52
25:CY:14:ASN:HD22	25:CY:14:ASN:N	2.08	0.52
25:CY:411:VAL:HG12	25:CY:412:ALA:N	2.25	0.52
25:CY:566:THR:O	25:CY:566:THR:HG22	2.09	0.52
25:AY:286:ILE:N	25:AY:286:ILE:HD12	2.25	0.52
40:BE:37:ARG:HA	40:BE:42:ASP:OD2	2.09	0.52
52:BU:65:ILE:HD11	52:BU:96:ALA:HB3	1.91	0.52
29:D3:10:LYS:NZ	29:D3:15:TYR:OH	2.39	0.52
12:CL:17:LYS:HD3	12:CL:18:VAL:N	2.25	0.52
42:BG:16:ARG:NE	42:BG:31:VAL:HG11	2.20	0.52
32:D6:11:LEU:HA	32:D6:54:ILE:OXT	2.10	0.52
25:AY:486:THR:O	25:AY:599:PRO:HA	2.09	0.52
34:B8:33:ASN:O	34:B8:34:TRP:HB3	2.10	0.52
34:B8:37:SER:O	34:B8:38:GLY:C	2.47	0.52
53:DV:46:VAL:HG22	53:DV:47:VAL:H	1.74	0.52
36:DA:363:G:H2'	36:DA:363(A):A:H8	1.75	0.52
32:B6:45:LYS:HG2	36:BA:2371:G:H4'	1.90	0.52
39:BD:30:GLU:HB2	39:BD:35:LYS:HZ2	1.74	0.52
36:BA:2206:G:N3	36:BA:2206:G:H3'	2.25	0.52
25:AY:162:VAL:O	25:AY:164:MET:HG2	2.10	0.52
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.24	0.52
25:AY:410:ASP:HA	25:AY:459:LEU:HD21	1.92	0.52
27:B1:76:ARG:CZ	27:B1:95:LEU:HD22	2.40	0.52
1:CA:1037:C:H2'	1:CA:1038:C:N3	2.24	0.52
36:DA:154(A):C:N4	36:DA:172:C:H42	2.07	0.52
50:DS:74:ALA:HB3	50:DS:103:GLU:HG3	1.92	0.52
1:CA:1234:C:H1'	1:CA:1364:U:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:797:C:P	41:DF:62:ARG:HG3	2.49	0.52
50:BS:85:VAL:C	50:BS:106:ARG:HG2	2.30	0.52
2:CB:9:GLU:HG2	2:CB:10:LEU:N	2.24	0.52
18:AR:44:LEU:O	18:AR:45:SER:O	2.26	0.52
23:AW:50:U:H2'	23:AW:51:C:C6	2.44	0.52
39:DD:117:VAL:CG2	39:DD:118:VAL:N	2.73	0.52
12:CL:47:LYS:NZ	12:CL:47:LYS:HB3	2.24	0.52
19:CS:29:ARG:O	19:CS:31:ILE:N	2.41	0.52
11:AK:99:GLN:CG	11:AK:105:VAL:HG21	2.35	0.52
1:CA:483:C:C3'	1:CA:484:G:H5''	2.36	0.52
35:D9:29:ASN:N	35:D9:29:ASN:HD22	2.05	0.52
56:BY:10:GLY:C	56:BY:27:VAL:HG13	2.30	0.52
1:CA:1375:A:OP1	7:CG:12:LEU:HD21	2.08	0.52
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	1.89	0.52
23:CW:17(A):U:P	36:DA:2180:U:H4'	2.49	0.52
14:CN:53:LEU:HB3	14:CN:56:VAL:CG2	2.39	0.52
40:BE:201:THR:C	40:BE:202:LYS:HD2	2.29	0.52
36:DA:1930:G:O2'	36:DA:1931:U:OP2	2.27	0.52
36:BA:748:G:O6	36:BA:751:A:H4'	2.09	0.52
46:DO:120:GLU:OE2	46:DO:122:LEU:HD21	2.10	0.52
40:BE:101:ARG:HH11	40:BE:169:ASN:ND2	2.08	0.52
1:AA:8:A:C6	4:AD:209:ARG:HB2	2.44	0.52
1:CA:519:C:H2'	1:CA:520:A:O4'	2.07	0.52
41:BF:103:LYS:C	41:BF:105:VAL:H	2.11	0.52
6:AF:18:GLN:O	6:AF:21:LEU:HB2	2.09	0.52
21:AU:9:ARG:O	21:AU:13:ILE:HG13	2.09	0.52
1:AA:646:U:H2'	1:AA:647:C:C6	2.44	0.52
36:DA:2350:C:H2'	36:DA:2351:G:O4'	2.09	0.52
8:AH:111:ILE:HG22	8:AH:112:LEU:N	2.24	0.52
36:BA:41:C:H2'	36:BA:42:G:O4'	2.08	0.52
36:DA:2026:C:N3	36:DA:2027:G:C8	2.77	0.52
30:D4:13:ARG:HH11	30:D4:13:ARG:HB3	1.74	0.52
1:AA:519:C:H2'	1:AA:520:A:O4'	2.09	0.52
30:D4:26:SER:OG	30:D4:27:THR:N	2.42	0.52
25:CY:14:ASN:OD1	25:CY:374:LEU:HD13	2.09	0.52
36:DA:322:A:H3'	41:DF:169:ASN:HD21	1.74	0.52
25:CY:510:VAL:HA	25:CY:570:GLY:CA	2.21	0.52
36:BA:2291:U:H2'	36:BA:2292:C:C6	2.45	0.52
57:BZ:120:ILE:O	57:BZ:120:ILE:HG22	2.08	0.52
32:D6:35:GLU:HA	32:D6:35:GLU:OE1	2.08	0.52
34:D8:33:ASN:HA	34:D8:36:LYS:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:487:ILE:CD1	25:AY:563:ILE:HG22	2.39	0.52
36:DA:1600:C:O2'	36:DA:1601:G:H5'	2.10	0.52
39:BD:61:LEU:O	39:BD:63:ARG:NH1	2.42	0.52
34:B8:50:LEU:C	34:B8:52:LYS:H	2.12	0.52
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.24	0.52
36:DA:2892:A:H62	36:DA:2893:G:H21	1.58	0.52
36:DA:252:G:OP2	47:DP:50:ARG:NH2	2.43	0.52
47:BP:24:GLY:HA2	47:BP:33:ARG:NH1	2.25	0.52
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.10	0.52
40:DE:69:LYS:N	40:DE:69:LYS:HE2	2.24	0.52
36:BA:310:A:P	56:BY:18:GLY:HA2	2.50	0.52
51:DT:33:LYS:NZ	51:DT:74:ARG:NH2	2.58	0.52
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.38	0.52
13:AM:117:VAL:O	13:AM:118:ALA:O	2.27	0.52
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.36	0.52
39:BD:267:SER:C	39:BD:269:PHE:H	2.13	0.52
25:CY:25:LYS:HE2	25:CY:86:GLY:N	2.24	0.52
1:AA:1442:G:H2'	51:BT:118:ARG:HH12	1.75	0.52
26:B0:19:LYS:NZ	26:B0:41:ARG:HH12	2.08	0.52
36:DA:406:G:OP2	36:DA:406:G:H8	1.92	0.52
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.92	0.52
18:AR:87:ARG:CB	18:AR:87:ARG:HH11	2.22	0.52
1:AA:738:C:H2'	1:AA:739:C:C6	2.44	0.52
1:AA:1112:C:O2'	3:AC:179:ARG:HG2	2.09	0.52
25:AY:277:VAL:HG13	25:AY:278:ASP:OD1	2.09	0.52
36:DA:1576:U:H2'	36:DA:1577:C:C6	2.45	0.52
36:DA:2740:A:H2'	36:DA:2741:A:C8	2.44	0.52
25:CY:384:ILE:HG13	25:CY:385:THR:N	2.25	0.52
36:DA:1680:U:H2'	36:DA:1681:G:O4'	2.10	0.52
22:AV:42:C:H2'	22:AV:42:C:O2	2.08	0.52
1:AA:658:G:H2'	1:AA:659:U:C6	2.45	0.52
16:AP:1:MET:CE	16:AP:65:GLN:HG3	2.39	0.52
31:B5:20:ARG:O	31:B5:23:HIS:HB2	2.10	0.52
8:AH:34:GLU:HB3	8:AH:118:VAL:HG21	1.91	0.52
46:BO:105:GLU:O	46:BO:109:LYS:HG3	2.10	0.52
33:B7:37:LYS:HE2	36:BA:469:G:O6	2.10	0.52
36:DA:643:A:O2'	36:DA:644:A:H5'	2.08	0.52
8:CH:35:ILE:HG22	8:CH:39:LEU:HD21	1.90	0.52
53:BV:82:ARG:HD2	53:BV:82:ARG:N	2.24	0.52
1:AA:1098:C:O2'	1:AA:1099:G:H5'	2.09	0.52
49:DR:18:LEU:HD21	49:DR:22:ARG:NE	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:654(A):G:C2'	36:BA:654(B):C:H5'	2.39	0.52
36:BA:654(A):G:O2'	36:BA:654(B):C:H5'	2.09	0.52
36:DA:2650:U:O2'	36:DA:2651:C:H5'	2.10	0.52
16:CP:82:GLN:O	16:CP:84:ALA:N	2.42	0.52
40:BE:188:VAL:HG23	40:BE:189:PRO:HD2	1.92	0.52
1:CA:399:G:H2'	1:CA:400:C:C6	2.44	0.52
22:CV:9:A:C2	22:CV:45:U:C4	2.98	0.52
30:D4:5:ILE:HG12	30:D4:5:ILE:O	2.08	0.52
25:AY:139:MET:O	25:AY:171:GLU:HA	2.10	0.52
25:AY:119:GLU:OE2	25:AY:666:ARG:HD2	2.09	0.52
25:AY:72:CYS:SG	25:AY:79:ILE:HB	2.50	0.52
41:DF:167:ALA:O	41:DF:169:ASN:N	2.43	0.52
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.10	0.52
36:DA:1156:A:O2'	36:DA:1157:G:OP1	2.26	0.52
25:CY:249:GLY:C	25:CY:255:ILE:HG22	2.29	0.52
36:DA:363(A):A:H2'	36:DA:363(B):G:C8	2.44	0.52
39:BD:35:LYS:O	39:BD:37:LEU:N	2.43	0.52
47:DP:144:GLU:HG2	47:DP:144:GLU:O	2.08	0.52
3:CC:34:LEU:CD2	3:CC:38:ARG:HD2	2.35	0.52
25:AY:177:ILE:O	25:AY:178:ILE:HD12	2.08	0.52
25:AY:181:LEU:HD23	25:AY:182:ARG:HH12	1.75	0.52
36:BA:637:A:H2'	47:BP:117:GLU:OE2	2.09	0.52
51:BT:102:ILE:HB	51:BT:110:ILE:HD11	1.92	0.52
51:DT:90:GLN:O	51:DT:91:ARG:C	2.46	0.52
36:BA:1814:G:C3'	36:BA:1815:A:H5''	2.30	0.52
57:DZ:165:VAL:HG12	57:DZ:166:SER:N	2.25	0.52
36:DA:2787:C:H1'	40:DE:61:ARG:CD	2.39	0.52
36:DA:1486:A:H2'	36:DA:1487:G:H8	1.72	0.52
36:BA:2810:A:H2'	40:BE:61:ARG:HH21	1.73	0.52
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.40	0.52
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.74	0.52
46:DO:34:THR:O	46:DO:35:VAL:C	2.47	0.52
2:CB:107:THR:HA	2:CB:110:GLN:NE2	2.20	0.52
36:DA:285:C:H2'	36:DA:286:C:C5'	2.38	0.52
57:DZ:63:ASP:C	57:DZ:65:GLN:N	2.63	0.52
2:CB:119:GLU:C	2:CB:121:LEU:H	2.13	0.52
12:CL:80:HIS:O	12:CL:81:SER:HB2	2.09	0.52
43:DH:41:MET:O	43:DH:42:ARG:CB	2.57	0.52
1:CA:284:G:H2'	1:CA:285:G:C8	2.36	0.52
19:CS:21:GLU:CG	19:CS:22:LEU:HD23	2.37	0.52
36:DA:883:G:H1	36:DA:893:C:H42	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:87:TYR:C	49:DR:89:ASP:N	2.61	0.52
36:BA:2740:A:H2'	36:BA:2741:A:C8	2.45	0.52
36:BA:2467:C:O2	48:BQ:124:LYS:NZ	2.43	0.52
35:D9:1:MET:O	35:D9:34:GLN:HG2	2.09	0.52
39:BD:205:VAL:O	39:BD:206:LEU:C	2.48	0.52
36:BA:729:G:N7	39:BD:208:LYS:HB2	2.24	0.52
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.23	0.52
51:BT:75:ILE:N	51:BT:75:ILE:CD1	2.73	0.52
36:BA:118:A:H1'	36:BA:178:G:O4'	2.10	0.52
56:DY:10:GLY:C	56:DY:27:VAL:HG13	2.30	0.52
37:DB:15:A:H1'	37:DB:110:G:C5	2.45	0.52
36:BA:2457:U:H2'	36:BA:2458:G:H5'	1.92	0.52
46:DO:12:ASP:OD2	46:DO:85:VAL:HG13	2.09	0.52
39:BD:186:HIS:HD2	39:BD:188:GLU:H	1.57	0.52
36:BA:1227:G:OP1	52:BU:13:LYS:HG2	2.09	0.52
36:DA:1865:G:C2'	36:DA:1866:C:H5''	2.40	0.52
36:BA:503:A:H4'	36:BA:504:U:C5'	2.39	0.52
36:DA:1461:G:O2'	36:DA:1462:C:H5'	2.09	0.52
42:DG:14:GLU:O	42:DG:18:GLU:HB2	2.10	0.52
4:AD:152:SER:O	4:AD:154:ASN:N	2.43	0.52
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.74	0.52
1:AA:710:G:O2'	1:AA:711:G:H5'	2.09	0.52
1:AA:633:G:H5'	1:AA:634:C:OP2	2.09	0.52
36:DA:514:A:H2'	36:DA:515:A:C8	2.44	0.52
34:D8:16:ILE:HD12	34:D8:57:ARG:HG2	1.92	0.52
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.92	0.52
36:BA:1759:A:H5'	36:BA:2715:C:H1'	1.91	0.52
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.44	0.52
42:DG:37:VAL:HA	42:DG:158:ALA:O	2.10	0.52
36:DA:1858:G:HO2'	36:DA:1859:A:H8	1.57	0.52
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.91	0.52
30:B4:26:SER:OG	30:B4:27:THR:N	2.41	0.52
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.39	0.52
36:DA:1264:G:O3'	36:DA:2615:U:H5'	2.10	0.52
36:DA:2015:A:H2'	36:DA:2016:U:O4'	2.09	0.52
36:DA:606:U:O2	36:DA:606:U:H2'	2.08	0.52
47:DP:83:VAL:HG13	47:DP:83:VAL:O	2.10	0.52
25:CY:610:VAL:HG12	25:CY:669:PHE:CB	2.40	0.52
25:AY:209:ALA:O	25:AY:210:ARG:C	2.47	0.52
25:AY:248:LYS:O	25:AY:252:ASP:OD1	2.27	0.52
10:AJ:70:ARG:NH1	10:AJ:70:ARG:HG2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:35:LYS:O	39:DD:37:LEU:N	2.43	0.52
40:BE:69:LYS:O	40:BE:71:GLY:N	2.43	0.52
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.09	0.52
7:CG:75:VAL:CG1	7:CG:86:GLN:HB3	2.40	0.52
39:DD:43:ARG:HD2	39:DD:44:ASN:OD1	2.09	0.52
30:D4:49:PHE:O	30:D4:50:VAL:O	2.27	0.52
3:AC:15:THR:HG22	3:AC:16:ARG:N	2.25	0.52
41:BF:154:VAL:HG13	41:BF:191:ARG:O	2.09	0.52
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.40	0.52
36:BA:1784:A:H4'	36:BA:1785:A:O5'	2.09	0.52
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.71	0.52
36:BA:2105:C:C2'	36:BA:2106:G:H5'	2.39	0.52
54:BW:50:VAL:HG22	54:BW:50:VAL:O	2.10	0.52
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.92	0.52
36:BA:1328:G:C8	36:BA:1328:G:O5'	2.59	0.52
35:D9:31:LYS:HD3	36:DA:2478:A:OP1	2.10	0.52
27:D1:60:PHE:CE1	27:D1:91:LYS:HE3	2.44	0.52
25:CY:385:THR:HG21	25:CY:436:PRO:HG3	1.90	0.52
51:DT:82:LEU:CD1	51:DT:82:LEU:N	2.72	0.52
1:CA:747:C:H2'	1:CA:748:C:C1'	2.40	0.52
36:DA:2656:U:C2'	36:DA:2657:A:H5''	2.40	0.52
36:BA:272(B):G:H2'	36:BA:272(C):G:H8	1.74	0.52
2:CB:137:ARG:NH1	2:CB:137:ARG:HG2	2.25	0.52
19:CS:4:SER:O	19:CS:6:LYS:HE3	2.09	0.52
36:BA:1368:G:O2'	36:BA:1369:G:H5'	2.09	0.52
36:DA:723:G:H2'	36:DA:724:U:H6	1.74	0.52
36:BA:2869:G:H2'	36:BA:2870:C:C6	2.44	0.52
12:AL:59:ARG:NE	25:AY:422:GLU:OE2	2.43	0.52
53:BV:88:ARG:O	53:BV:90:PRO:HD3	2.10	0.52
32:B6:42:TRP:NE1	36:BA:643:A:OP1	2.43	0.52
4:CD:57:ARG:HG2	4:CD:57:ARG:HH11	1.75	0.52
42:DG:18:GLU:HA	42:DG:18:GLU:OE1	2.10	0.52
1:AA:520:A:N1	1:AA:536:C:H1'	2.24	0.52
1:CA:526:C:C5	1:CA:527:G:H1'	2.44	0.52
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.45	0.52
41:BF:135:LYS:HB3	41:BF:138:GLU:CG	2.40	0.52
7:AG:91:VAL:HG12	7:AG:92:SER:N	2.24	0.52
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.91	0.52
37:DB:17:C:H3'	37:DB:18:G:H8	1.74	0.52
36:DA:2861:G:H2'	36:DA:2862:G:H8	1.73	0.52
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:96:ALA:HB1	43:DH:103:LEU:HD11	1.91	0.52
25:CY:535:PRO:HD2	25:CY:538:TYR:HD2	1.75	0.52
36:BA:1381:G:N2	36:BA:1382:G:H1'	2.25	0.52
59:CY:701:FUA:H201	59:CY:701:FUA:O1	2.09	0.52
25:CY:93:GLU:HG3	59:CY:701:FUA:H62	1.90	0.52
25:AY:170:ARG:HD2	25:AY:170:ARG:N	2.24	0.52
25:AY:138:LYS:HG2	60:AY:702:GDP:C6	2.44	0.52
41:BF:158:THR:HG21	41:BF:163:VAL:HB	1.91	0.52
57:BZ:120:ILE:O	57:BZ:121:HIS:HB2	2.10	0.52
32:B6:53:LYS:HG3	32:B6:54:ILE:HG23	1.92	0.52
39:BD:165:ILE:HD13	39:BD:175:LEU:CD2	2.36	0.52
32:D6:16:CYS:SG	32:D6:48:VAL:CG2	2.97	0.52
25:AY:181:LEU:HD13	25:AY:216:LEU:CD2	2.40	0.52
49:BR:52:ILE:O	49:BR:55:ALA:HB3	2.10	0.52
51:BT:50:ILE:HG13	51:BT:102:ILE:HD11	1.90	0.52
36:DA:1495:A:H2'	36:DA:1496:A:C2	2.45	0.52
36:DA:1495:A:H2'	36:DA:1496:A:N3	2.25	0.52
25:AY:451:ILE:HG23	25:AY:459:LEU:HD23	1.92	0.52
27:B1:91:LYS:HA	27:B1:94:LEU:HD13	1.92	0.52
36:DA:2523:G:H2'	36:DA:2524:G:H5'	1.90	0.52
1:CA:1004:A:H5'	1:CA:1025:U:C4	2.43	0.52
28:D2:48:HIS:O	28:D2:49:LYS:C	2.47	0.52
1:CA:1364:U:C2'	1:CA:1364:U:O2	2.58	0.52
10:CJ:3:LYS:O	10:CJ:100:THR:HG23	2.10	0.52
36:DA:110:G:O2'	36:DA:111:A:H5'	2.10	0.52
2:AB:119:GLU:C	2:AB:121:LEU:H	2.13	0.52
36:BA:363(F):A:H1'	36:BA:364:C:H5	1.74	0.52
51:DT:129:ARG:O	51:DT:129:ARG:CG	2.57	0.52
1:AA:1303:C:OP1	1:AA:1304:G:OP2	2.28	0.52
54:DW:36:LEU:HD11	54:DW:47:VAL:HG12	1.91	0.52
25:CY:276:VAL:HG13	25:CY:280:LEU:HG	1.92	0.52
9:CI:125:TYR:HD1	9:CI:126:SER:H	1.56	0.52
36:BA:2111:C:H1'	36:BA:2118:U:O4'	2.10	0.52
36:BA:1582:C:O2'	36:BA:1583:A:H5'	2.10	0.52
1:CA:1298:C:C5	7:CG:114:ARG:HD3	2.44	0.52
54:DW:59:VAL:HG12	54:DW:59:VAL:O	2.10	0.52
35:B9:35:ARG:HD3	36:BA:2742:C:OP1	2.10	0.52
36:BA:192:C:C2'	36:BA:193:U:H5'	2.39	0.52
23:CW:74:C:H2'	23:CW:75:C:H5'	1.92	0.52
36:BA:1169:G:H1	36:BA:1180:C:N4	2.03	0.52
28:B2:18:PRO:O	28:B2:20:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:42:GLU:C	6:CF:44:GLY:N	2.63	0.52
37:DB:15:A:C3'	37:DB:16:G:H5'	2.40	0.52
36:DA:654(G):C:H2'	36:DA:654(H):G:C8	2.41	0.52
36:BA:1841:U:H2'	36:BA:1842:G:C8	2.44	0.52
41:DF:125:LEU:HD23	41:DF:125:LEU:N	2.25	0.52
49:BR:53:HIS:ND1	49:BR:53:HIS:O	2.43	0.52
37:BB:20:C:H2'	37:BB:21:G:H5'	1.92	0.52
36:DA:2512:C:H2'	36:DA:2513:G:O4'	2.09	0.52
44:BJ:13:UNK:C	44:BJ:15:UNK:N	2.70	0.52
36:BA:2749:A:N1	36:BA:2750:A:N6	2.58	0.52
1:CA:1014:A:H4'	19:CS:14:HIS:CE1	2.45	0.52
22:CV:30:G:O2'	22:CV:31:A:H5'	2.10	0.52
44:BJ:34:UNK:HA	44:BJ:37:UNK:CB	2.40	0.52
36:BA:2774:C:H2'	36:BA:2775:A:O4'	2.09	0.52
42:DG:93:THR:O	42:DG:94:LEU:HD23	2.10	0.52
44:BJ:108:UNK:O	44:BJ:109:UNK:C	2.57	0.52
36:BA:2352:A:H2'	36:BA:2353:G:H5'	1.92	0.52
1:CA:291:C:O2'	1:CA:292:G:H5'	2.09	0.52
37:DB:29:A:OP2	50:DS:32:LEU:HG	2.10	0.52
4:AD:57:ARG:HH11	4:AD:57:ARG:HG2	1.75	0.52
36:BA:2097:C:O2'	36:BA:2098:U:H5'	2.10	0.52
25:CY:580:MET:SD	36:DA:1913:A:N1	2.83	0.52
36:BA:610:G:H22	36:BA:619:G:H1'	1.75	0.52
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	1.91	0.52
36:DA:2313:C:O2'	36:DA:2314:C:H5'	2.09	0.52
42:DG:128:ARG:HG3	42:DG:128:ARG:O	2.09	0.52
30:B4:48:ARG:NH2	30:B4:49:PHE:HE1	2.07	0.52
36:BA:322:A:H5'	36:BA:340:A:H1'	1.91	0.52
36:BA:2472:G:H5'	36:BA:2473:U:O5'	2.10	0.52
36:BA:997:G:O2'	36:BA:998:C:H5'	2.10	0.52
53:BV:39:LEU:O	53:BV:40:LEU:HB2	2.10	0.52
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.58	0.52
36:DA:185:U:H2'	36:DA:186:G:C8	2.45	0.52
36:BA:1022:G:O2'	36:BA:1023:U:OP2	2.27	0.52
45:BN:18:ALA:HB3	45:BN:21:LYS:HB2	1.92	0.52
31:D5:3:LYS:HZ1	36:DA:2613:U:C2'	2.23	0.52
31:D5:3:LYS:HZ3	36:DA:2613:U:H2'	1.75	0.52
51:BT:108:ARG:HA	51:BT:111:ARG:NH1	2.25	0.52
51:BT:28:VAL:O	51:BT:29:ARG:CD	2.58	0.52
25:AY:451:ILE:HD11	25:AY:462:ILE:HG21	1.91	0.52
36:BA:2015:A:H2'	36:BA:2016:U:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:35:LYS:HD3	39:DD:61:LEU:HD12	1.91	0.52
13:CM:2:ALA:O	13:CM:9:ILE:HG23	2.10	0.52
1:AA:265:G:H4'	17:AQ:66:SER:HA	1.91	0.52
36:DA:2810:A:H2'	40:DE:61:ARG:HH21	1.73	0.52
49:BR:10:LEU:CD2	49:BR:17:ARG:HD3	2.37	0.52
50:BS:104:GLY:C	50:BS:106:ARG:H	2.12	0.52
23:AW:22:G:H2'	23:AW:23:C:H5'	1.91	0.52
2:AB:51:LEU:HD23	2:AB:55:PHE:HE2	1.75	0.52
1:CA:425:G:O2'	1:CA:426:G:H5'	2.10	0.52
38:DC:155:ARG:O	38:DC:159:ALA:HB2	2.10	0.52
36:DA:1658:C:O5'	36:DA:1658:C:H6	1.93	0.52
1:CA:974:A:H8	1:CA:974:A:OP1	1.93	0.52
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.29	0.52
36:DA:2590:A:OP2	39:DD:238:GLY:HA2	2.10	0.52
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.40	0.52
51:BT:83:ILE:CG1	51:BT:84:GLN:N	2.73	0.52
41:DF:123:LEU:HD12	41:DF:124:LEU:H	1.75	0.52
43:BH:41:MET:O	43:BH:42:ARG:CB	2.57	0.52
43:BH:41:MET:HE3	43:BH:43:VAL:HA	1.92	0.52
5:CE:60:TYR:CE1	5:CE:64:ARG:NH2	2.74	0.52
42:BG:9:ARG:O	42:BG:11:TYR:N	2.43	0.52
15:AO:12:ILE:O	15:AO:14:GLU:N	2.43	0.52
36:DA:882:G:H1	36:DA:894:C:H42	1.56	0.52
4:AD:2:GLY:O	4:AD:4:TYR:N	2.43	0.52
15:CO:71:GLN:HB2	15:CO:78:TYR:CD1	2.45	0.52
34:D8:39:LYS:HE3	36:DA:2365:G:O6	2.10	0.52
56:BY:29:GLU:N	56:BY:29:GLU:OE1	2.42	0.52
6:CF:42:GLU:C	6:CF:44:GLY:H	2.13	0.52
1:CA:159:G:C2'	1:CA:160:A:H5''	2.40	0.52
34:B8:8:LYS:O	34:B8:12:LYS:HG3	2.10	0.52
36:BA:55:G:H1	36:BA:115:C:H42	1.57	0.52
36:DA:818:G:OP2	36:DA:1187:G:O6	2.28	0.52
49:DR:53:HIS:O	49:DR:56:LYS:HB2	2.09	0.52
36:DA:755:C:H2'	36:DA:756:C:C6	2.45	0.52
36:DA:2348:U:C2'	36:DA:2349:G:C5'	2.87	0.52
1:CA:114:U:H2'	1:CA:115:G:C8	2.45	0.52
36:BA:2193:G:H8	36:BA:2193:G:H5'	1.74	0.52
52:DU:82:GLY:O	52:DU:84:LYS:N	2.42	0.52
40:DE:96:PHE:HA	40:DE:100:GLU:OE1	2.10	0.52
41:DF:107:LYS:HD2	41:DF:205:ARG:O	2.10	0.52
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:40:ARG:O	3:AC:44:GLU:HG3	2.09	0.52
32:D6:42:TRP:NE1	36:DA:643:A:OP1	2.42	0.52
38:BC:97:GLY:O	38:BC:100:ILE:HG12	2.10	0.52
11:AK:24:SER:O	11:AK:88:GLY:HA3	2.10	0.52
36:BA:2113:U:H2'	36:BA:2114:A:H8	1.73	0.52
36:BA:198:C:H2'	36:BA:199:A:H5''	1.92	0.52
1:CA:633:G:H5'	1:CA:634:C:OP2	2.10	0.52
6:AF:15:ASP:C	6:AF:17:SER:H	2.13	0.52
42:DG:127:GLY:HA2	42:DG:166:ASP:OD1	2.09	0.52
1:AA:238:G:P	17:AQ:25:ARG:HH22	2.33	0.52
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.24	0.52
31:B5:39:MET:HG3	54:BW:34:ASN:ND2	2.25	0.52
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.09	0.52
38:DC:104:ILE:CG2	38:DC:131:ILE:HG21	2.40	0.52
25:AY:20:HIS:CE1	25:AY:21:ILE:HG12	2.45	0.52
1:CA:980:C:C5	1:CA:981:U:C2	2.98	0.52
9:CI:65:VAL:HG21	9:CI:73:GLN:CB	2.36	0.52
1:AA:980:C:C5	1:AA:981:U:C2	2.98	0.52
53:BV:17:GLY:O	53:BV:18:LEU:HB3	2.09	0.52
57:BZ:118:GLN:O	57:BZ:172:ALA:HB1	2.10	0.52
32:D6:10:LEU:HB3	34:D8:34:TRP:CD1	2.45	0.52
13:CM:108:ARG:HA	13:CM:108:ARG:NH1	2.06	0.52
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.73	0.52
56:DY:28:LYS:C	56:DY:38:ILE:HG22	2.30	0.52
53:DV:18:LEU:HD13	53:DV:19:LYS:H	1.73	0.52
39:DD:242:ARG:HG3	39:DD:242:ARG:NH1	2.24	0.52
32:B6:16:CYS:O	32:B6:17:LYS:C	2.47	0.52
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.29	0.52
36:DA:650:C:H3'	36:DA:651:G:H5''	1.91	0.52
47:DP:146:VAL:HG13	47:DP:147:LEU:N	2.24	0.52
25:AY:181:LEU:HD13	25:AY:216:LEU:HD21	1.91	0.52
47:BP:115:LEU:HD23	47:BP:115:LEU:H	1.74	0.52
27:B1:56:GLN:OE1	27:B1:85:LEU:HD23	2.09	0.52
36:BA:675:A:OP1	41:BF:63:LYS:HE2	2.10	0.52
1:CA:265:G:H4'	17:CQ:66:SER:HA	1.92	0.52
45:BN:132:ALA:O	45:BN:133:GLN:CB	2.58	0.52
36:DA:1516:C:H2'	36:DA:1517:G:H5'	1.92	0.52
36:DA:1658:C:OP1	40:DE:132:HIS:O	2.28	0.52
1:AA:1227:A:H2'	13:AM:117:VAL:CG2	2.36	0.52
39:DD:108:PRO:HG2	39:DD:111:LEU:CB	2.36	0.52
48:DQ:101:ARG:HD2	48:DQ:102:VAL:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:83:ILE:HD11	51:BT:84:GLN:HE21	1.75	0.52
18:CR:87:ARG:CZ	18:CR:87:ARG:HB3	2.40	0.52
4:CD:25:ARG:HH12	4:CD:30:LYS:HD2	1.75	0.52
48:BQ:101:ARG:HD2	48:BQ:102:VAL:H	1.75	0.52
26:B0:12:ASN:O	26:B0:14:ARG:N	2.37	0.52
36:DA:1614:A:H2'	36:DA:1615:C:H5'	1.92	0.52
36:DA:654(L):G:C2'	36:DA:654(M):C:H4'	2.39	0.52
57:DZ:48:PHE:CD1	57:DZ:52:SER:HA	2.45	0.52
36:DA:687:C:H2'	36:DA:688:U:O4'	2.10	0.52
1:CA:939:G:H5''	7:CG:102:ARG:NH1	2.24	0.52
48:DQ:17:LEU:HD23	48:DQ:17:LEU:N	2.25	0.52
31:B5:45:VAL:HG22	31:B5:51:TYR:CD2	2.45	0.52
7:AG:15:ASP:HA	7:AG:24:THR:HG23	1.91	0.52
36:BA:190:A:H2'	36:BA:191:A:C8	2.45	0.52
27:D1:29:GLY:O	27:D1:30:VAL:HG22	2.10	0.52
37:BB:90:A:C8	37:BB:91:C:H1'	2.44	0.52
2:CB:207:ALA:HB3	2:CB:210:SER:HB2	1.92	0.52
25:AY:628:ARG:HH12	25:AY:680:PRO:CG	2.22	0.52
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.42	0.52
29:D3:38:GLU:HB3	29:D3:43:ILE:HG13	1.91	0.52
36:BA:1216:G:H2'	36:BA:1217:C:H6	1.75	0.52
5:AE:33:VAL:CG1	5:AE:112:LEU:HD12	2.39	0.52
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.09	0.52
15:CO:53:HIS:CE1	15:CO:57:LEU:HD21	2.45	0.52
55:BX:26:TYR:HD2	55:BX:92:LEU:HD12	1.73	0.52
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.44	0.52
36:BA:42:G:H3'	36:BA:43:A:H8	1.75	0.52
30:D4:13:ARG:HB3	30:D4:13:ARG:NH1	2.25	0.52
6:CF:15:ASP:OD1	6:CF:17:SER:HB2	2.10	0.52
11:AK:29:ILE:HB	11:AK:44:SER:CB	2.40	0.52
1:AA:22:G:H4'	1:AA:885:G:C8	2.45	0.52
36:BA:900:A:H2'	36:BA:901:A:O4'	2.10	0.52
7:CG:134:ALA:O	7:CG:137:LYS:HB2	2.09	0.52
36:BA:2861:G:H2'	36:BA:2862:G:H8	1.73	0.52
1:CA:635:G:O2'	1:CA:636:U:H5'	2.09	0.52
25:AY:146:LEU:HD12	25:AY:167:PRO:HD3	1.92	0.52
36:DA:1711:C:O2'	36:DA:1712:C:H5'	2.10	0.52
21:CU:9:ARG:O	21:CU:13:ILE:HG13	2.10	0.52
36:BA:845:G:H8	36:BA:845:G:OP2	1.92	0.52
36:DA:1917:U:C2'	36:DA:1918:A:H5'	2.40	0.52
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:236:G:O2'	1:CA:237:C:H5'	2.10	0.52
36:BA:2656:U:N3	36:BA:2665:A:H2	2.08	0.52
41:BF:160:ASN:OD1	41:BF:163:VAL:HG23	2.09	0.52
25:CY:138:LYS:HG2	60:CY:702:GDP:C4	2.45	0.52
52:BU:79:PHE:CE1	52:BU:83:LEU:HD11	2.43	0.52
29:D3:9:VAL:HG23	29:D3:10:LYS:N	2.25	0.52
30:B4:9:LEU:HD13	30:B4:26:SER:O	2.09	0.52
36:BA:2820:A:O2'	36:BA:2821:A:OP1	2.27	0.52
40:BE:111:ARG:CG	49:BR:2:ARG:HG2	2.37	0.52
54:DW:88:ARG:CB	54:DW:92:ARG:HB3	2.38	0.52
50:BS:12:PHE:O	50:BS:14:VAL:N	2.42	0.52
27:B1:82:LEU:HB3	27:B1:90:ILE:CD1	2.39	0.52
6:AF:68:PRO:HG2	6:AF:71:ARG:HB2	1.92	0.52
36:DA:2888:C:H2'	36:DA:2889:C:H6	1.75	0.52
47:DP:57:THR:OG1	47:DP:59:LEU:HB3	2.10	0.52
25:AY:8:ASP:OD2	25:AY:10:LYS:HB2	2.09	0.52
36:BA:2892:A:H62	36:BA:2893:G:H21	1.58	0.52
57:BZ:86:VAL:CG1	57:BZ:87:ASP:H	2.17	0.52
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.55	0.52
1:CA:1490:C:C5'	1:CA:1490:C:H6	2.15	0.52
41:DF:84:VAL:C	41:DF:86:GLY:H	2.13	0.52
25:AY:191:ASP:HB2	25:AY:265:LYS:HA	1.92	0.52
18:CR:44:LEU:N	18:CR:44:LEU:HD12	2.25	0.52
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.92	0.52
39:DD:118:VAL:HG22	39:DD:119:ALA:N	2.24	0.52
48:DQ:24:GLY:O	48:DQ:102:VAL:HG23	2.10	0.52
19:CS:43:GLU:HB2	19:CS:44:MET:SD	2.50	0.52
36:BA:2481:G:HO2'	36:BA:2482:G:P	2.32	0.52
43:DH:41:MET:HE3	43:DH:43:VAL:HA	1.92	0.52
25:AY:105:ILE:HG23	25:AY:133:ILE:HG13	1.91	0.52
30:B4:19:GLY:O	30:B4:20:ASN:C	2.47	0.52
38:BC:101:ILE:O	38:BC:105:LEU:HB2	2.10	0.52
36:DA:2023:G:H4'	36:DA:2617:C:O3'	2.10	0.52
35:B9:29:ASN:H	35:B9:29:ASN:ND2	2.08	0.52
36:DA:2652:C:H42	36:DA:2668:G:H1	1.58	0.52
36:BA:1678:G:N2	36:BA:1989:G:N2	2.57	0.52
25:AY:204:GLU:H	25:AY:204:GLU:CD	2.13	0.52
26:B0:51:VAL:CG2	26:B0:81:VAL:HG23	2.40	0.52
1:AA:444:C:H42	1:AA:490:G:H1	1.58	0.52
8:CH:103:VAL:HG23	8:CH:110:ALA:HB2	1.92	0.52
36:DA:529:A:H4'	36:DA:530:G:O5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.30	0.52
27:B1:26:ARG:HG3	27:B1:27:GLU:N	2.23	0.52
36:DA:753:C:H2'	36:DA:754:C:H6	1.73	0.52
36:DA:139(A):G:N2	55:DX:44:GLU:OE2	2.42	0.52
41:DF:32:LEU:C	41:DF:32:LEU:HD23	2.31	0.52
36:BA:2230:G:H2'	36:BA:2231:C:H6	1.75	0.52
45:DN:65:LYS:CB	45:DN:69:GLN:HG3	2.40	0.52
40:BE:197:ILE:O	40:BE:197:ILE:HG12	2.08	0.52
31:D5:20:ARG:O	31:D5:23:HIS:HB2	2.10	0.52
36:DA:2192:G:C2'	36:DA:2193:G:H5''	2.40	0.52
38:BC:48:LEU:HD23	38:BC:209:PHE:CZ	2.45	0.52
33:B7:10:ARG:NH1	33:B7:14:LYS:HE3	2.25	0.52
18:CR:74:ARG:HB3	18:CR:81:PHE:CE1	2.45	0.52
1:CA:802:A:H3'	1:CA:803:G:C8	2.45	0.52
36:BA:1935:G:H1'	36:BA:1964:G:N2	2.25	0.52
36:BA:18:C:O2'	52:BU:23:GLY:HA2	2.10	0.52
38:BC:173:HIS:O	38:BC:174:ALA:HB2	2.09	0.52
43:BH:26:VAL:HG11	43:BH:75:ALA:O	2.09	0.52
25:CY:552:SER:HB3	25:CY:591:LYS:NZ	2.25	0.52
1:AA:135:C:H2'	1:AA:136:C:H5'	1.92	0.52
36:DA:2492:U:O2'	36:DA:2493:U:H5'	2.09	0.52
54:BW:33:ARG:O	54:BW:37:ARG:HB2	2.10	0.52
1:CA:353:A:H5'	1:CA:353:A:H8	1.74	0.52
10:CJ:21:GLN:HG2	10:CJ:21:GLN:O	2.10	0.52
1:AA:526:C:C5	1:AA:527:G:H1'	2.44	0.52
38:DC:138:LEU:HD22	38:DC:139:PRO:CD	2.38	0.51
37:DB:42:C:O2'	42:DG:66:GLN:NE2	2.40	0.51
25:CY:91:THR:HB	25:CY:95:GLU:HG2	1.91	0.51
25:CY:488:THR:HG23	25:CY:600:VAL:CG1	2.39	0.51
25:CY:191:ASP:O	25:CY:193:GLY:N	2.43	0.51
25:CY:510:VAL:HG12	25:CY:511:LYS:N	2.25	0.51
25:CY:528:ALA:HB3	25:CY:567:LEU:O	2.11	0.51
53:BV:40:LEU:N	53:BV:40:LEU:HD22	2.24	0.51
47:DP:33:ARG:O	47:DP:35:HIS:O	2.28	0.51
57:DZ:12:GLY:HA2	57:DZ:36:LYS:HZ1	1.75	0.51
32:D6:27:LYS:HB3	32:D6:30:THR:CG2	2.39	0.51
32:D6:30:THR:O	32:D6:31:PRO:C	2.49	0.51
49:BR:24:GLN:HE22	49:BR:36:THR:HG21	1.72	0.51
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.40	0.51
36:DA:1345:C:O2'	36:DA:1346:G:H5'	2.09	0.51
25:AY:631:ILE:HA	25:AY:645:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:23:LEU:HB3	45:DN:60:ILE:CG2	2.38	0.51
7:CG:15:ASP:OD1	7:CG:44:TYR:OH	2.28	0.51
47:BP:146:VAL:CG2	47:BP:147:LEU:H	2.09	0.51
47:BP:83:VAL:O	47:BP:83:VAL:HG13	2.09	0.51
51:BT:91:ARG:HB3	51:BT:115:ARG:O	2.10	0.51
51:DT:108:ARG:HA	51:DT:111:ARG:NH1	2.25	0.51
51:DT:50:ILE:HD12	51:DT:50:ILE:N	2.24	0.51
1:AA:1033:G:H2'	1:AA:1034:G:O4'	2.10	0.51
43:DH:154:PRO:O	43:DH:156:ALA:N	2.43	0.51
28:D2:24:LEU:CD2	28:D2:60:LEU:HD11	2.32	0.51
50:DS:85:VAL:HG23	50:DS:86:ALA:N	2.25	0.51
34:B8:50:LEU:HD12	34:B8:51:ALA:N	2.25	0.51
34:D8:52:LYS:HE2	36:DA:834:C:H4'	1.91	0.51
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.33	0.51
40:DE:34:VAL:HG12	40:DE:48:GLN:O	2.11	0.51
9:CI:5:TYR:CE1	9:CI:18:PHE:HE1	2.27	0.51
10:CJ:16:LEU:HD12	10:CJ:70:ARG:HD3	1.91	0.51
36:DA:365:C:C6	36:DA:365:C:H5'	2.29	0.51
51:DT:32:TYR:O	51:DT:33:LYS:HB2	2.09	0.51
47:DP:41:ARG:HB3	47:DP:41:ARG:HH11	1.73	0.51
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.36	0.51
25:CY:74:TRP:CE2	25:CY:273:LEU:HB3	2.45	0.51
36:BA:1946:U:H2'	36:BA:1947:C:H6	1.74	0.51
41:DF:132:VAL:CG2	41:DF:133:ASN:H	2.19	0.51
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.24	0.51
39:BD:118:VAL:HG22	39:BD:119:ALA:N	2.25	0.51
48:DQ:21:THR:O	48:DQ:22:LYS:HB3	2.09	0.51
1:AA:555:C:H2'	1:AA:556:C:H6	1.75	0.51
12:CL:25:PRO:C	12:CL:27:LEU:N	2.58	0.51
36:BA:727:A:H3'	36:BA:728:G:C8	2.45	0.51
12:CL:38:THR:HG22	12:CL:57:LYS:O	2.10	0.51
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.09	0.51
36:BA:1325:G:OP2	36:BA:1616:A:H2'	2.10	0.51
42:BG:77:ILE:HG22	42:BG:80:PHE:N	2.21	0.51
1:CA:1239:A:H62	1:CA:1299:A:N6	2.08	0.51
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	1.91	0.51
26:B0:20:ARG:CD	26:B0:20:ARG:H	2.21	0.51
50:DS:40:ILE:CG2	50:DS:41:ASP:H	2.23	0.51
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.72	0.51
36:DA:2111:C:H1'	36:DA:2118:U:O4'	2.09	0.51
36:DA:657:U:H2'	36:DA:658:C:H6	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:12:ARG:HB3	49:DR:16:HIS:CD2	2.45	0.51
36:DA:204:A:OP1	36:DA:204:A:H8	1.92	0.51
46:DO:14:THR:CG2	46:DO:86:ILE:HD13	2.39	0.51
1:AA:658:G:H2'	1:AA:659:U:H6	1.76	0.51
36:DA:1216:G:N2	36:DA:1234:U:H1'	2.25	0.51
36:BA:1336:A:P	55:BX:64:LYS:HE3	2.51	0.51
36:BA:515:A:C2	36:BA:1261:C:H1'	2.45	0.51
36:DA:2037:G:H2'	36:DA:2038:G:C8	2.46	0.51
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.10	0.51
36:DA:2735:G:H2'	36:DA:2736:G:H8	1.74	0.51
27:B1:18:ILE:HG21	27:B1:20:ARG:NE	2.25	0.51
1:AA:862:C:O2'	1:AA:863:U:H5'	2.10	0.51
27:B1:40:ARG:HH12	36:BA:2232:U:P	2.33	0.51
36:DA:63:U:H4'	36:DA:63:U:OP1	2.10	0.51
5:AE:73:ASN:HD22	5:AE:73:ASN:N	2.08	0.51
36:DA:2236:C:H2'	36:DA:2237:G:O4'	2.10	0.51
36:DA:2836:U:C4	36:DA:2883:A:N6	2.78	0.51
15:AO:29:VAL:HG11	15:AO:67:LEU:HD21	1.91	0.51
20:CT:56:MET:HG3	20:CT:84:LEU:HD12	1.92	0.51
36:BA:768:G:H2'	36:BA:769:G:C8	2.45	0.51
42:DG:11:TYR:OH	42:DG:33:ARG:CG	2.58	0.51
42:DG:60:LEU:HA	42:DG:63:ILE:HD11	1.92	0.51
19:AS:67:VAL:CG2	30:B4:48:ARG:NH2	2.74	0.51
25:CY:84:THR:HG22	59:CY:701:FUA:H152	1.92	0.51
25:CY:92:ILE:HD13	25:CY:92:ILE:O	2.09	0.51
14:AN:18:VAL:HG23	14:AN:19:ARG:N	2.25	0.51
36:DA:2472:G:H3'	36:DA:2475:C:N4	2.25	0.51
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.10	0.51
36:BA:997:G:OP1	52:BU:93:LYS:HD3	2.10	0.51
45:DN:45:ASN:N	45:DN:45:ASN:ND2	2.43	0.51
48:BQ:134:ARG:HH11	48:BQ:134:ARG:HG3	1.75	0.51
36:BA:1600:C:O2'	36:BA:1601:G:H5'	2.09	0.51
41:DF:126:VAL:HG11	41:DF:142:TRP:HH2	1.74	0.51
41:DF:195:ASP:OD1	41:DF:196:LEU:N	2.43	0.51
25:AY:546:ILE:CD1	25:AY:565:VAL:HG11	2.34	0.51
32:B6:30:THR:HG22	32:B6:32:ASN:HD22	1.75	0.51
32:B6:54:ILE:CD1	36:BA:2420:C:H5'	2.41	0.51
25:CY:162:VAL:HG21	25:CY:255:ILE:CD1	2.39	0.51
32:B6:43:CYS:HB2	32:B6:44:ARG:NH2	2.24	0.51
31:D5:7:PRO:HG2	36:DA:2016:U:O2	2.10	0.51
12:AL:42:THR:O	12:AL:42:THR:HG23	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:131:ALA:HB3	40:BE:134:ILE:CD1	2.41	0.51
36:BA:1494:A:O2'	36:BA:1495:A:C5'	2.48	0.51
25:AY:210:ARG:O	25:AY:212:TYR:N	2.43	0.51
36:BA:2308:G:O6	36:BA:2310:A:H2'	2.11	0.51
36:BA:2867:G:C5	51:BT:23:ARG:NH1	2.78	0.51
51:BT:104:ASN:O	51:BT:106:SER:N	2.43	0.51
36:BA:27:G:N2	36:BA:512:G:C2'	2.67	0.51
51:DT:91:ARG:HB3	51:DT:115:ARG:O	2.10	0.51
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.31	0.51
36:DA:674:G:H5''	41:DF:76:GLY:N	2.26	0.51
36:BA:807:U:OP2	47:BP:39:LYS:HG3	2.10	0.51
10:CJ:70:ARG:NH1	10:CJ:70:ARG:HG2	2.25	0.51
45:BN:125:GLY:CA	45:BN:126:PRO:O	2.58	0.51
43:DH:155:SER:O	43:DH:157:TYR:N	2.43	0.51
16:CP:20:VAL:HG23	16:CP:34:GLU:C	2.30	0.51
1:AA:439:A:H2'	1:AA:441:A:C5'	2.41	0.51
36:DA:1784:A:H4'	36:DA:1785:A:O5'	2.09	0.51
27:D1:24:ALA:HA	27:D1:32:LYS:HG3	1.92	0.51
36:BA:2175:C:H1'	38:BC:218:THR:O	2.09	0.51
36:DA:279:C:H3'	36:DA:280:C:H5''	1.91	0.51
36:BA:883:G:H1	36:BA:893:C:H42	1.58	0.51
1:CA:276:G:O2'	1:CA:277:C:H5'	2.10	0.51
43:DH:28:GLY:HA3	43:DH:79:VAL:HB	1.91	0.51
25:CY:413:ILE:HG23	25:CY:413:ILE:O	2.10	0.51
36:DA:2240:C:O2'	36:DA:2241:A:H5'	2.10	0.51
36:BA:1755:A:P	51:BT:113:LYS:NZ	2.83	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.45	0.51
36:BA:529:A:H4'	36:BA:530:G:O5'	2.10	0.51
19:AS:36:ARG:NH1	19:AS:52:TYR:O	2.42	0.51
18:AR:30:ASP:O	18:AR:32:ARG:N	2.36	0.51
46:DO:12:ASP:C	46:DO:14:THR:H	2.14	0.51
25:CY:621:ILE:HD11	25:CY:634:MET:CE	2.40	0.51
36:DA:2454:G:O2'	36:DA:2455:G:H5'	2.10	0.51
42:DG:107:LEU:HD11	42:DG:178:PHE:CE1	2.45	0.51
36:BA:2850:A:OP2	36:BA:2866:U:H5	1.93	0.51
40:BE:8:LYS:HE2	40:BE:192:ASN:ND2	2.25	0.51
36:BA:229:A:H3'	36:BA:230:U:H5'	1.92	0.51
3:CC:40:ARG:O	3:CC:44:GLU:HG3	2.09	0.51
7:CG:108:ALA:C	7:CG:110:GLN:H	2.14	0.51
38:BC:77:ALA:HB3	38:BC:95:VAL:HA	1.91	0.51
1:CA:1334:G:H5'	1:CA:1335:C:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DO:44:LYS:O	46:DO:45:GLU:HB3	2.10	0.51
36:DA:428:A:H3'	36:DA:429:A:H8	1.75	0.51
1:AA:757:U:H2'	1:AA:758:G:O4'	2.10	0.51
21:AU:5:ASP:O	21:AU:7:ARG:N	2.43	0.51
36:BA:1416:G:HO2'	36:BA:1417:C:H5	1.57	0.51
36:BA:2359:C:H2'	36:BA:2360:A:O4'	2.10	0.51
25:AY:471:LYS:O	25:AY:471:LYS:HG2	2.10	0.51
10:AJ:21:GLN:O	10:AJ:21:GLN:HG2	2.10	0.51
39:DD:84:TYR:CD1	39:DD:84:TYR:C	2.83	0.51
36:DA:2402:C:C6	36:DA:2402:C:OP2	2.63	0.51
10:AJ:3:LYS:O	10:AJ:100:THR:HG23	2.10	0.51
55:BX:12:VAL:HG12	55:BX:27:THR:C	2.30	0.51
25:AY:21:ILE:HG13	36:BA:2661:G:H5''	1.93	0.51
25:AY:25:LYS:HE3	60:AY:702:GDP:PB	2.50	0.51
25:AY:97:SER:O	25:AY:100:VAL:HG13	2.09	0.51
41:BF:160:ASN:HD22	41:BF:160:ASN:C	2.13	0.51
27:B1:12:PRO:CG	36:BA:1365:A:H5'	2.40	0.51
52:BU:91:ASP:O	52:BU:92:ARG:HB3	2.09	0.51
57:BZ:4:ARG:NH1	57:BZ:58:VAL:HG11	2.25	0.51
48:BQ:27:VAL:H	48:BQ:137:TYR:HD2	1.57	0.51
29:B3:15:TYR:HD1	29:B3:15:TYR:H	1.58	0.51
29:B3:9:VAL:HG11	29:B3:55:ARG:HD3	1.92	0.51
36:DA:2292:C:O2'	36:DA:2293:C:H5'	2.10	0.51
52:DU:92:ARG:NH1	53:DV:11:GLN:O	2.41	0.51
45:BN:62:VAL:HG13	45:BN:62:VAL:O	2.11	0.51
40:DE:131:ALA:HB3	40:DE:134:ILE:HD13	1.91	0.51
36:BA:925:C:C3'	36:BA:926:A:H5''	2.39	0.51
45:DN:22:THR:HB	45:DN:25:ARG:CB	2.37	0.51
3:CC:95:THR:O	3:CC:97:LYS:N	2.43	0.51
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.90	0.51
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.26	0.51
26:D0:27:GLU:N	26:D0:27:GLU:CD	2.47	0.51
53:DV:28:GLU:CB	53:DV:31:ALA:HB2	2.32	0.51
50:BS:106:ARG:HD2	50:BS:106:ARG:C	2.31	0.51
20:AT:13:LEU:O	20:AT:16:HIS:N	2.43	0.51
4:AD:98:GLU:CD	4:AD:103:ASN:HD21	2.13	0.51
36:BA:2313:C:O2'	36:BA:2314:C:H5'	2.10	0.51
36:DA:1659:U:O2'	36:DA:1660:C:H5'	2.10	0.51
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.10	0.51
23:AW:61:C:O2'	23:AW:62:C:H5'	2.10	0.51
43:BH:121:ILE:HG23	43:BH:134:SER:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:83:TYR:HA	43:DH:135:GLY:O	2.10	0.51
51:DT:83:ILE:HD11	51:DT:84:GLN:HE21	1.74	0.51
43:BH:43:VAL:CG1	43:BH:52:VAL:HA	2.40	0.51
41:DF:69:HIS:CD2	41:DF:69:HIS:N	2.78	0.51
48:BQ:21:THR:O	48:BQ:22:LYS:HB3	2.09	0.51
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.92	0.51
12:AL:38:THR:CG2	12:AL:57:LYS:HB3	2.40	0.51
19:AS:13:ASP:O	19:AS:15:LEU:N	2.44	0.51
49:BR:87:TYR:C	49:BR:89:ASP:N	2.61	0.51
56:DY:2:ARG:HG2	56:DY:2:ARG:HH11	1.76	0.51
46:DO:98:VAL:CG2	46:DO:117:LEU:HB3	2.40	0.51
54:BW:15:ARG:HA	54:BW:18:ARG:HD2	1.92	0.51
49:BR:115:GLU:HG2	49:BR:117:VAL:H	1.75	0.51
36:DA:134:C:H2'	36:DA:135:G:C8	2.40	0.51
23:CW:75:C:H5''	27:D1:30:VAL:HG11	1.92	0.51
36:BA:1669:A:H4'	36:BA:2549:G:H4'	1.92	0.51
57:DZ:125:LEU:HD12	57:DZ:126:VAL:H	1.75	0.51
36:BA:1721:G:H8	36:BA:1741:A:H62	1.57	0.51
36:DA:207:A:H2'	36:DA:208:C:O4'	2.11	0.51
6:CF:2:ARG:HD3	6:CF:92:LYS:CE	2.41	0.51
1:CA:658:G:H2'	1:CA:659:U:H6	1.76	0.51
1:AA:1269:A:C2'	1:AA:1270:C:H5'	2.40	0.51
46:BO:14:THR:CB	46:BO:86:ILE:HD13	2.41	0.51
25:AY:679:VAL:HG23	25:AY:684:GLN:NE2	2.25	0.51
36:BA:2208:A:H1'	36:BA:2219:G:C4	2.44	0.51
25:CY:388:THR:CG2	25:CY:399:LEU:HD13	2.40	0.51
1:AA:1387:G:H2'	1:AA:1388:C:C6	2.45	0.51
36:BA:2053:G:H1	36:BA:2616:C:H42	1.58	0.51
41:DF:103:LYS:HA	41:DF:106:ARG:CG	2.41	0.51
36:BA:2606:C:C2'	36:BA:2607:G:H5'	2.40	0.51
15:AO:57:LEU:HD23	15:AO:57:LEU:H	1.75	0.51
1:CA:8:A:N6	4:CD:209:ARG:HB2	2.25	0.51
1:CA:1332:A:O2'	1:CA:1333:A:H5'	2.09	0.51
1:AA:940:C:O2'	1:AA:941:G:H5'	2.09	0.51
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.75	0.51
55:BX:23:GLU:O	55:BX:25:LYS:N	2.42	0.51
36:BA:1856:G:H1	36:BA:1886:C:H42	1.58	0.51
8:AH:35:ILE:HG22	8:AH:39:LEU:HD21	1.92	0.51
30:D4:9:LEU:HD13	30:D4:26:SER:O	2.10	0.51
42:DG:72:ARG:HB3	42:DG:87:PRO:CD	2.38	0.51
25:CY:17:ILE:HD11	25:CY:81:ILE:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:438:PHE:C	25:CY:438:PHE:HD1	2.14	0.51
36:BA:2656:U:C2'	36:BA:2657:A:H5''	2.41	0.51
25:CY:149:VAL:O	25:CY:152:THR:HG22	2.10	0.51
36:BA:1748:G:C8	36:BA:1748:G:H5'	2.36	0.51
55:DX:12:VAL:HG12	55:DX:27:THR:C	2.31	0.51
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.30	0.51
25:AY:610:VAL:HG12	25:AY:669:PHE:HB3	1.91	0.51
56:DY:61:ILE:HG12	56:DY:62:GLU:N	2.25	0.51
36:DA:637:A:H4'	36:DA:638:G:O5'	2.10	0.51
47:BP:113:LYS:HA	47:BP:129:ALA:O	2.11	0.51
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.24	0.51
20:CT:96:GLY:O	20:CT:97:ALA:O	2.28	0.51
3:AC:65:ALA:O	3:AC:66:VAL:HB	2.10	0.51
28:B2:66:GLU:O	28:B2:69:ARG:HG2	2.10	0.51
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.24	0.51
23:AW:25:C:O2'	23:AW:26:G:H5'	2.10	0.51
47:BP:16:ARG:NH2	47:BP:18:ARG:HG2	2.25	0.51
37:DB:81:G:H5'	37:DB:81:G:N3	2.25	0.51
1:AA:425:G:O2'	1:AA:426:G:H5'	2.11	0.51
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.23	0.51
43:DH:157:TYR:CE1	43:DH:171:LEU:HD22	2.31	0.51
22:AV:52:G:H2'	22:AV:53:G:H8	1.75	0.51
22:AV:15:G:H3'	22:AV:16:U:C5'	2.36	0.51
25:CY:36:THR:CB	25:CY:72:CYS:HB2	2.39	0.51
30:D4:48:ARG:NH2	30:D4:49:PHE:HE1	2.08	0.51
51:BT:11:GLU:O	51:BT:14:TYR:CE1	2.63	0.51
23:CW:51:C:H2'	23:CW:52:G:C5'	2.37	0.51
12:CL:83:VAL:HG12	12:CL:84:LEU:H	1.75	0.51
18:AR:87:ARG:CZ	18:AR:87:ARG:HB3	2.40	0.51
1:CA:542:G:H5'	4:CD:41:GLY:HA2	1.92	0.51
19:CS:43:GLU:O	19:CS:45:VAL:HG13	2.10	0.51
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.72	0.51
57:BZ:81:ARG:HB2	57:BZ:81:ARG:HH11	1.75	0.51
7:AG:114:ARG:HG2	7:AG:114:ARG:HH11	1.75	0.51
25:CY:377:VAL:HG21	25:CY:380:LEU:CD1	2.40	0.51
9:AI:45:ALA:O	9:AI:48:GLU:HB2	2.10	0.51
36:DA:2497:A:C8	36:DA:2497:A:OP2	2.58	0.51
25:CY:65:ILE:C	25:CY:67:ALA:H	2.12	0.51
26:D0:51:VAL:CG2	26:D0:81:VAL:HG23	2.40	0.51
31:D5:29:THR:HG21	36:DA:2814:C:O2'	2.11	0.51
4:CD:162:LEU:HD13	4:CD:181:MET:HG2	1.93	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'	1.93	0.51
47:BP:67:MET:O	47:BP:68:GLN:HG3	2.10	0.51
36:DA:2656:U:N3	36:DA:2665:A:H2	2.08	0.51
41:DF:6:VAL:H	41:DF:125:LEU:HD21	1.74	0.51
13:CM:34:LEU:HD13	13:CM:41:PRO:CG	2.40	0.51
13:CM:34:LEU:HD13	13:CM:41:PRO:CB	2.40	0.51
36:DA:1035:U:H2'	36:DA:1036:G:H8	1.74	0.51
26:B0:49:LYS:HG3	26:B0:80:HIS:ND1	2.24	0.51
27:B1:45:ASN:ND2	36:BA:2090:G:H21	2.09	0.51
36:BA:1826:G:H4'	39:BD:242:ARG:NH2	2.26	0.51
40:BE:26:ILE:HG13	40:BE:182:LEU:HB3	1.92	0.51
2:CB:102:LEU:HG	2:CB:158:LEU:CD2	2.41	0.51
36:DA:2678:C:O2'	36:DA:2679:A:H5'	2.10	0.51
26:B0:78:TYR:N	26:B0:78:TYR:CD1	2.78	0.51
1:AA:1058:G:H8	1:AA:1058:G:O5'	1.94	0.51
36:BA:20:C:H2'	36:BA:21:A:C8	2.45	0.51
41:BF:26:ALA:O	41:BF:27:GLU:HG3	2.11	0.51
36:BA:777:A:H2'	36:BA:778:G:H8	1.75	0.51
22:CV:27:G:H2'	22:CV:28:G:H8	1.75	0.51
7:AG:75:VAL:CG1	7:AG:86:GLN:HB3	2.41	0.51
1:CA:636:U:H2'	1:CA:637:G:C8	2.45	0.51
36:DA:1917:U:O2'	36:DA:1918:A:H5'	2.10	0.51
3:AC:150:LYS:HB2	3:AC:169:ALA:HB1	1.93	0.51
36:DA:2359:C:H2'	36:DA:2360:A:O4'	2.10	0.51
36:BA:2026:C:N3	36:BA:2027:G:C8	2.79	0.51
36:BA:2769:C:O2'	36:BA:2770:G:H5'	2.11	0.51
36:BA:654(E):G:H2'	36:BA:654(F):C:H5'	1.93	0.51
36:DA:271(K):U:H3'	36:DA:271(L):U:H5''	1.93	0.51
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.11	0.51
36:BA:773:U:C5'	39:BD:47:GLY:HA2	2.40	0.51
36:BA:1591:G:O2'	36:BA:1592:C:H5'	2.10	0.51
36:DA:2774:C:H2'	36:DA:2775:A:O4'	2.10	0.51
36:DA:684:G:O2'	36:DA:788:A:N7	2.44	0.51
11:AK:12:ARG:HG2	11:AK:13:GLN:N	2.26	0.51
2:CB:163:PHE:CD1	2:CB:185:ILE:HG13	2.46	0.51
30:D4:8:LYS:O	30:D4:9:LEU:CB	2.58	0.51
36:DA:2312:U:OP1	42:DG:73:ALA:HA	2.10	0.51
25:CY:600:VAL:O	25:CY:600:VAL:HG13	2.10	0.51
30:B4:8:LYS:O	30:B4:9:LEU:CB	2.59	0.51
29:B3:56:VAL:CG1	29:B3:57:GLU:H	2.23	0.51
32:D6:30:THR:HG22	32:D6:32:ASN:HD22	1.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:126:VAL:HG11	41:BF:142:TRP:HH2	1.75	0.51
45:BN:87:LEU:O	45:BN:88:GLU:C	2.49	0.51
25:CY:227:ILE:HD12	25:CY:245:ALA:CB	2.39	0.51
25:CY:659:LEU:HD13	25:CY:659:LEU:C	2.30	0.51
25:CY:670:VAL:HB	25:CY:672:PHE:CE1	2.45	0.51
25:AY:110:SER:OG	25:AY:136:ALA:HB1	2.11	0.51
7:CG:15:ASP:HA	7:CG:24:THR:HG23	1.92	0.51
49:BR:63:ARG:HH22	49:BR:77:ARG:HG2	1.76	0.51
39:DD:133:LEU:HD22	39:DD:165:ILE:HD11	1.91	0.51
27:B1:86:SER:O	27:B1:90:ILE:N	2.42	0.51
20:AT:96:GLY:O	20:AT:97:ALA:O	2.29	0.51
36:DA:2189:U:H2'	36:DA:2190:G:C5'	2.31	0.51
34:B8:51:ALA:HA	34:B8:54:GLU:CD	2.31	0.51
36:DA:2317:C:O2'	36:DA:2318:G:H5'	2.10	0.51
39:DD:26:LYS:N	39:DD:26:LYS:HE2	2.25	0.51
5:CE:144:THR:N	5:CE:147:ASP:OD1	2.40	0.51
5:CE:79:GLU:CB	5:CE:93:PRO:HD2	2.36	0.51
1:CA:1116:C:C2'	1:CA:1117:G:C5'	2.87	0.51
36:BA:479:A:HO2'	36:BA:481:G:H8	1.55	0.51
25:AY:519:ARG:NH2	25:AY:678:GLU:HB2	2.25	0.51
57:DZ:9:TYR:CE2	57:DZ:35:ARG:NH1	2.76	0.51
36:BA:1047:G:HO2'	36:BA:1110:G:H1	1.59	0.51
36:BA:545:C:H2'	36:BA:547:A:C5'	2.35	0.51
36:BA:1799:G:H5'	36:BA:1819:A:H61	1.76	0.51
36:DA:1491:G:O2'	39:DD:101:GLU:HB2	2.10	0.51
36:BA:7:G:O2'	36:BA:8:A:H5'	2.10	0.51
9:AI:84:ALA:C	9:AI:86:VAL:H	2.13	0.51
19:AS:61:TYR:O	19:AS:62:ILE:HB	2.10	0.51
9:AI:125:TYR:CD1	9:AI:126:SER:N	2.76	0.51
1:CA:547:A:OP2	4:CD:2:GLY:N	2.43	0.51
1:AA:939:G:H5''	7:AG:102:ARG:NH1	2.25	0.51
1:AA:939:G:C5'	7:AG:102:ARG:NH2	2.71	0.51
56:BY:30:VAL:HG12	56:BY:31:LEU:H	1.75	0.51
2:CB:207:ALA:C	2:CB:209:ARG:N	2.61	0.51
47:BP:92:GLU:OE2	47:BP:121:LYS:HE2	2.10	0.51
57:DZ:85:HIS:HD1	57:DZ:85:HIS:C	2.13	0.51
36:DA:16:G:H2'	36:DA:17:G:H8	1.75	0.51
6:AF:42:GLU:C	6:AF:44:GLY:N	2.64	0.51
36:BA:1865:G:C2'	36:BA:1866:C:H5''	2.41	0.51
36:DA:1132:A:C4	36:DA:1133:U:C5	2.98	0.51
36:DA:2348:U:H2'	36:DA:2349:G:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:40:ASN:HD22	13:CM:43:THR:HG23	1.75	0.51
37:DB:20:C:H2'	37:DB:21:G:H5'	1.93	0.51
5:CE:34:VAL:HG12	5:CE:62:ALA:HB1	1.92	0.51
1:AA:866:C:H2'	1:AA:867:G:O4'	2.11	0.51
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.41	0.51
36:DA:1759:A:H5'	36:DA:2715:C:H1'	1.92	0.51
36:DA:1270:C:H5''	36:DA:1271:G:H5'	1.93	0.51
36:BA:324:A:N6	36:BA:338:G:O2'	2.42	0.51
36:DA:1310:G:H2'	36:DA:1311:G:H5'	1.92	0.51
36:BA:1635:G:N2	36:BA:1636:C:C2	2.79	0.51
36:DA:2543:G:H5'	36:DA:2543:G:H8	1.76	0.51
13:CM:17:VAL:O	13:CM:20:THR:HB	2.11	0.51
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.73	0.51
44:BJ:118:UNK:C	44:BJ:120:UNK:H	2.23	0.51
38:DC:173:HIS:O	38:DC:174:ALA:HB2	2.10	0.51
15:AO:49:ASP:O	15:AO:49:ASP:OD1	2.29	0.51
8:AH:40:ALA:HA	8:AH:45:ILE:HG13	1.91	0.51
1:CA:238:G:P	17:CQ:25:ARG:HH22	2.34	0.51
42:DG:96:ARG:O	42:DG:97:ASP:HB2	2.10	0.51
57:DZ:16:SER:O	57:DZ:20:ARG:HG2	2.10	0.51
36:DA:1052:C:H6	36:DA:1052:C:H3'	1.76	0.51
52:BU:88:ILE:O	52:BU:90:VAL:N	2.41	0.51
52:BU:95:LEU:O	52:BU:98:LEU:HG	2.11	0.51
53:BV:49:THR:HB	53:BV:50:PRO:HD2	1.93	0.51
29:D3:7:LYS:HE3	29:D3:32:GLN:O	2.11	0.51
50:BS:89:ARG:NH1	50:BS:89:ARG:HG2	2.25	0.51
50:BS:95:HIS:CD2	50:BS:96:GLY:H	2.27	0.51
34:D8:32:LEU:H	34:D8:32:LEU:CD2	2.23	0.51
56:DY:23:ARG:O	56:DY:24:VAL:O	2.29	0.51
28:B2:3:LEU:HD12	36:BA:98:G:C5'	2.41	0.51
56:BY:13:VAL:HG21	56:BY:72:VAL:HB	1.91	0.51
2:CB:223:ILE:HG12	2:CB:226:ARG:HH22	1.68	0.51
36:DA:1012:U:H3	45:DN:25:ARG:HE	1.58	0.51
36:DA:2050:C:H1'	40:DE:156:MET:HE2	1.93	0.51
25:CY:603:GLU:CG	25:CY:677:GLN:HG2	2.40	0.51
25:AY:180:VAL:CG2	25:AY:181:LEU:H	2.23	0.51
25:AY:230:LYS:HD2	25:AY:235:GLU:OE1	2.11	0.51
25:AY:382:GLU:O	25:AY:384:ILE:HG23	2.11	0.51
26:B0:27:GLU:N	26:B0:27:GLU:CD	2.46	0.51
30:D4:2:LYS:CB	37:DB:40:U:O4	2.54	0.51
36:DA:1537:G:H2'	36:DA:1538:G:C8	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:55:VAL:HG21	45:DN:127:ASP:H	1.75	0.51
36:BA:1542:A:H8	36:BA:1542:A:H3'	1.75	0.51
42:BG:111:LEU:HB3	42:BG:117:PHE:CE2	2.46	0.51
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.25	0.51
5:CE:91:LEU:HD13	5:CE:120:THR:CG2	2.41	0.51
41:DF:157:VAL:O	41:DF:157:VAL:HG23	2.11	0.51
36:DA:7:G:O2'	36:DA:8:A:H5'	2.10	0.51
48:BQ:59:ARG:HB3	57:BZ:180:VAL:CG2	2.41	0.51
52:BU:47:TYR:CA	52:BU:50:ARG:NH1	2.73	0.51
39:BD:72:LYS:HG3	39:BD:103:ARG:HH21	1.76	0.51
36:BA:1577:C:H2'	36:BA:1578:U:C6	2.46	0.51
25:AY:66:THR:O	25:AY:67:ALA:HB3	2.11	0.51
36:BA:90:U:H4'	36:BA:92:A:C8	2.46	0.51
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.11	0.51
36:DA:2481:G:HO2'	36:DA:2482:G:P	2.33	0.51
36:BA:145:G:H2'	36:BA:146:G:C8	2.45	0.51
4:AD:78:LEU:HD21	4:AD:96:LEU:CB	2.41	0.51
36:BA:881:G:C2'	36:BA:882:G:H5'	2.40	0.51
1:CA:243:A:C2	1:CA:246:A:C8	2.98	0.51
29:D3:56:VAL:CG1	29:D3:57:GLU:N	2.73	0.51
47:BP:140:ALA:O	47:BP:141:ALA:HB3	2.10	0.51
25:CY:428:LEU:O	25:CY:432:ALA:HB2	2.11	0.51
34:B8:41:ILE:HG13	34:B8:42:ARG:N	2.26	0.51
36:DA:190:A:H2'	36:DA:191:A:C8	2.46	0.51
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.26	0.51
36:DA:2626:C:O2'	36:DA:2627:G:H5'	2.10	0.51
1:CA:59:A:H5''	1:CA:60:A:H5'	1.91	0.51
36:DA:2030:A:H4'	36:DA:2031:A:C8	2.46	0.51
36:DA:1186:G:O2'	36:DA:1187:G:H5'	2.11	0.51
36:DA:55:G:H1	36:DA:115:C:H42	1.58	0.51
13:CM:105:THR:O	13:CM:106:ASN:CG	2.49	0.51
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.39	0.51
36:BA:1680:U:H2'	36:BA:1681:G:O4'	2.09	0.51
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.40	0.51
26:D0:37:LEU:N	26:D0:59:LEU:O	2.37	0.51
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.76	0.51
57:BZ:141:VAL:O	57:BZ:142:SER:HB3	2.11	0.51
1:AA:936:C:H2'	1:AA:937:A:O4'	2.10	0.51
36:BA:2348:U:C2'	36:BA:2349:G:C5'	2.89	0.51
26:B0:7:LEU:HD12	48:BQ:85:LYS:HE2	1.92	0.51
46:BO:107:ARG:HA	46:BO:112:MET:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2502:G:H5''	36:BA:2503:A:H5''	1.92	0.51
36:DA:1462:C:H4'	36:DA:2703:C:H5'	1.93	0.51
36:BA:1270:C:H5''	36:BA:1271:G:C5'	2.40	0.51
36:DA:229:A:H3'	36:DA:230:U:H5'	1.91	0.51
6:CF:15:ASP:C	6:CF:17:SER:H	2.14	0.51
36:BA:18:C:O2	36:BA:554:U:H5''	2.10	0.51
1:AA:828:A:H2'	1:AA:829:G:O4'	2.10	0.51
36:DA:2083:G:H2'	36:DA:2084:C:C6	2.46	0.51
36:DA:2511:U:O3'	40:DE:123:ALA:HB3	2.11	0.51
3:AC:136:GLN:O	3:AC:137:ALA:C	2.49	0.51
37:BB:58:A:H2'	37:BB:59:A:C8	2.46	0.51
7:CG:91:VAL:HG12	7:CG:92:SER:N	2.26	0.51
1:AA:353:A:H5'	1:AA:353:A:H8	1.75	0.51
6:CF:16:GLN:HA	6:CF:19:LEU:HB3	1.93	0.51
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.11	0.51
8:CH:99:GLU:O	8:CH:100:ILE:C	2.49	0.51
36:BA:768:G:H2'	36:BA:769:G:H8	1.75	0.51
25:CY:455:GLY:CA	25:CY:660:ARG:HH12	2.21	0.51
43:BH:157:TYR:CE1	43:BH:171:LEU:HD22	2.32	0.51
41:DF:158:THR:HG21	41:DF:163:VAL:HB	1.91	0.51
30:B4:25:TYR:O	30:B4:26:SER:HB3	2.10	0.51
29:B3:15:TYR:HB3	29:B3:19:GLN:NE2	2.25	0.51
29:B3:9:VAL:HG23	29:B3:10:LYS:N	2.26	0.51
32:D6:53:LYS:HG3	32:D6:54:ILE:HG23	1.91	0.51
52:DU:95:LEU:O	52:DU:98:LEU:HG	2.11	0.51
53:DV:39:LEU:O	53:DV:40:LEU:HB2	2.10	0.51
23:CW:67:C:C2'	23:CW:68:C:H5'	2.41	0.51
36:DA:1453:U:H2'	36:DA:1455:G:N7	2.26	0.51
45:DN:18:ALA:HB3	45:DN:21:LYS:HB2	1.93	0.51
3:CC:65:ALA:O	3:CC:66:VAL:HB	2.11	0.51
36:BA:650:C:H3'	36:BA:651:G:H5''	1.92	0.51
51:BT:65:LYS:HA	51:BT:65:LYS:HZ1	1.67	0.51
25:AY:427:ALA:CB	25:AY:466:LEU:HD11	2.36	0.51
28:D2:25:VAL:HG13	28:D2:57:ILE:HG23	1.92	0.51
28:D2:65:ASN:HD21	36:DA:112:U:H5'	1.74	0.51
46:DO:47:ILE:O	46:DO:48:PRO:O	2.28	0.51
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	2.08	0.51
36:DA:1782:C:C2'	36:DA:1783:A:H5'	2.39	0.51
36:DA:2712:U:O2'	36:DA:2712(A):A:O5'	2.29	0.51
16:AP:33:ILE:O	16:AP:34:GLU:CB	2.59	0.51
2:CB:8:LYS:O	2:CB:11:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.57	0.51
25:AY:35:TYR:C	25:AY:37:GLY:H	2.13	0.51
25:CY:73:PHE:CZ	25:CY:78:ARG:NH2	2.79	0.51
25:CY:73:PHE:HZ	25:CY:78:ARG:NH2	2.09	0.51
1:AA:1499:A:C1'	1:AA:1520:G:H5'	2.35	0.51
36:DA:286:C:H6	36:DA:286:C:H5'	1.74	0.51
43:BH:83:TYR:CB	43:BH:135:GLY:H	2.19	0.51
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.75	0.51
23:CW:1:C:H2'	23:CW:2:G:C8	2.33	0.51
26:B0:43:THR:N	36:BA:2331:G:H4'	2.19	0.51
1:AA:182:U:H5'	1:AA:183:G:P	2.50	0.51
1:AA:191:G:C2	20:AT:105:SER:HB3	2.45	0.51
36:DA:559:G:N2	52:DU:49:HIS:CD2	2.77	0.51
36:BA:1877:A:H5'	36:BA:1878:G:OP2	2.11	0.51
1:AA:626:U:H5'	1:AA:627:G:OP2	2.11	0.51
41:BF:157:VAL:HG23	41:BF:157:VAL:O	2.11	0.51
12:CL:20:LYS:N	12:CL:20:LYS:HD3	2.22	0.51
37:DB:94:C:H2'	37:DB:95:C:H6	1.75	0.51
45:BN:30:ILE:O	45:BN:34:LEU:HD23	2.10	0.51
28:B2:28:LYS:NZ	28:B2:56:GLN:NE2	2.59	0.51
36:BA:1943:U:C2'	36:BA:1943:U:O2	2.59	0.51
36:DA:654(T):C:H2'	36:DA:654(U):A:N9	2.26	0.51
56:DY:10:GLY:O	56:DY:27:VAL:HG22	2.11	0.51
36:DA:1721:G:H8	36:DA:1741:A:H62	1.58	0.51
46:DO:24:VAL:HG21	46:DO:30:ALA:HB3	1.93	0.51
36:BA:687:C:H2'	36:BA:688:U:O4'	2.11	0.51
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.41	0.51
1:AA:1318:A:H2'	1:AA:1319:A:H5'	1.93	0.51
19:AS:39:THR:HA	19:AS:70:LYS:HD3	1.92	0.51
46:DO:4:PRO:HA	46:DO:21:CYS:SG	2.50	0.51
44:BJ:26:UNK:CB	44:BJ:84:UNK:HA	2.40	0.51
1:AA:59:A:H1'	1:AA:354:G:N2	2.26	0.51
43:BH:18:GLU:HG3	43:BH:25:LYS:HB2	1.91	0.51
42:BG:129:GLY:H	42:BG:166:ASP:N	2.08	0.51
43:DH:40:GLU:O	43:DH:55:PRO:HD2	2.10	0.51
25:AY:617:MET:HE3	25:AY:641:GLN:HB3	1.92	0.51
36:DA:1102:C:H2'	36:DA:1103:A:C8	2.46	0.51
36:BA:2607:G:C6	36:BA:2608:G:C6	2.99	0.51
36:BA:302:C:H2'	36:BA:303:U:C6	2.45	0.51
38:DC:97:GLY:O	38:DC:100:ILE:HG12	2.10	0.51
1:AA:333:G:O2'	1:AA:334:C:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.31	0.51
12:AL:112:ASP:O	12:AL:114:LYS:HG3	2.10	0.51
36:BA:1713:U:O2'	36:BA:1714:G:H5'	2.11	0.51
36:DA:2352:A:H2'	36:DA:2353:G:H5'	1.93	0.51
36:DA:2097:C:O2'	36:DA:2098:U:H5'	2.11	0.51
1:CA:1084:G:OP1	1:CA:1086:U:C4	2.64	0.51
36:DA:1166:C:H2'	36:DA:1167:U:C6	2.46	0.51
35:D9:9:ARG:NH2	35:D9:16:VAL:HG23	2.24	0.51
50:DS:25:ARG:CG	50:DS:26:LEU:H	2.24	0.51
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.11	0.51
1:AA:977:A:H2'	1:AA:978:A:H5'	1.93	0.51
7:CG:69:VAL:HG12	7:CG:69:VAL:O	2.10	0.51
36:BA:1149:G:H2'	36:BA:1150:C:C6	2.46	0.51
51:BT:134:GLU:O	51:BT:135:ALA:HB2	2.10	0.51
1:CA:135:C:H2'	1:CA:136:C:H5'	1.93	0.51
19:AS:27:GLU:O	19:AS:28:LYS:O	2.28	0.51
36:BA:2553:G:H2'	36:BA:2554:U:O4'	2.10	0.51
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.46	0.51
25:CY:15:ILE:CD1	25:CY:81:ILE:HG23	2.40	0.51
25:AY:139:MET:O	25:AY:144:ALA:HB1	2.11	0.51
25:CY:188:TYR:HD1	25:CY:196:ILE:HG22	1.76	0.51
53:BV:46:VAL:HG22	53:BV:47:VAL:H	1.74	0.51
50:BS:66:ALA:O	50:BS:99:LYS:HD3	2.11	0.51
57:BZ:119:GLU:OE1	57:BZ:122:ARG:HD3	2.11	0.51
42:BG:61:ALA:HB1	42:BG:66:GLN:O	2.10	0.51
32:D6:53:LYS:CG	32:D6:54:ILE:H	2.20	0.51
36:BA:1277:G:O2'	49:BR:24:GLN:HG2	2.10	0.51
39:DD:242:ARG:HH11	39:DD:242:ARG:HG3	1.75	0.51
36:BA:2345:G:C5'	36:BA:2346:A:H5'	2.40	0.51
25:CY:670:VAL:CG2	25:CY:671:MET:N	2.74	0.51
25:AY:227:ILE:HG22	25:AY:227:ILE:O	2.10	0.51
36:DA:1493:C:O2	36:DA:1493:C:H2'	2.11	0.51
41:BF:62:ARG:NH2	41:BF:64:ILE:HA	2.26	0.51
1:CA:1033:G:H2'	1:CA:1034:G:O4'	2.11	0.51
47:BP:57:THR:OG1	47:BP:59:LEU:HB3	2.11	0.51
36:BA:110:G:H2'	36:BA:111:A:H8	1.74	0.51
36:DA:594:U:H2'	36:DA:595:C:C6	2.46	0.51
13:AM:2:ALA:O	13:AM:9:ILE:HG23	2.10	0.51
40:DE:68:ALA:O	40:DE:70:ALA:N	2.44	0.51
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.10	0.51
5:AE:144:THR:N	5:AE:147:ASP:OD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:84:ALA:C	9:CI:86:VAL:H	2.15	0.51
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.46	0.51
1:CA:1303:C:OP1	1:CA:1304:G:OP2	2.29	0.51
3:CC:7:PRO:HG3	3:CC:184:TYR:CD1	2.46	0.51
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.25	0.51
1:AA:1510:U:O2	1:AA:1526:G:C2	2.64	0.51
4:AD:10:ARG:O	4:AD:13:ARG:HB2	2.11	0.51
22:CV:71:G:H2'	22:CV:72:C:O4'	2.11	0.51
36:BA:1314:C:C6	36:BA:1314:C:H5'	2.37	0.51
25:AY:65:ILE:O	25:AY:67:ALA:N	2.43	0.51
4:CD:146:ILE:N	4:CD:146:ILE:HD13	2.25	0.51
7:CG:49:ILE:O	7:CG:49:ILE:HG22	2.10	0.51
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.26	0.51
1:AA:243:A:C2	1:AA:246:A:C8	2.99	0.51
36:DA:1755:A:P	51:DT:113:LYS:NZ	2.83	0.51
1:CA:781:A:C3'	1:CA:782:A:H5'	2.41	0.51
36:BA:1827:C:H2'	36:BA:1828:G:O4'	2.11	0.51
1:CA:1259:C:C4	1:CA:1260:C:O2	2.64	0.51
36:DA:64:A:C5	55:DX:66:LEU:HD13	2.45	0.51
27:D1:69:LYS:NZ	36:DA:372:G:OP1	2.42	0.51
36:BA:1102:C:H2'	36:BA:1103:A:C8	2.46	0.51
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.46	0.51
1:AA:1308:U:H5''	13:AM:98:VAL:CG2	2.41	0.51
38:BC:196:ALA:O	38:BC:199:ALA:HB3	2.11	0.51
40:DE:8:LYS:HE2	40:DE:192:ASN:ND2	2.26	0.51
50:DS:25:ARG:HG2	50:DS:26:LEU:H	1.76	0.51
36:DA:1415:U:H3	36:DA:1587:A:H61	1.59	0.51
7:AG:134:ALA:O	7:AG:137:LYS:HB2	2.11	0.51
36:DA:712:G:O2'	36:DA:713:G:H5'	2.10	0.51
25:CY:304:ASP:C	25:CY:306:ASN:H	2.14	0.51
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.26	0.51
1:CA:940:C:O2'	1:CA:941:G:H5'	2.11	0.51
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.10	0.51
42:DG:47:LYS:N	42:DG:47:LYS:HD3	2.26	0.51
27:D1:40:ARG:HH12	36:DA:2232:U:P	2.34	0.51
37:DB:4:C:H2'	37:DB:5:C:C6	2.46	0.51
42:DG:138:GLN:O	42:DG:144:ILE:HD13	2.10	0.51
30:B4:50:VAL:O	30:B4:51:ASP:HB3	2.11	0.51
25:CY:170:ARG:O	25:CY:171:GLU:HG3	2.11	0.51
25:CY:496:LYS:HE2	25:CY:498:ILE:HD13	1.92	0.51
54:BW:82:LEU:HB3	54:BW:84:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:90:VAL:O	52:BU:91:ASP:C	2.49	0.51
52:BU:95:LEU:CD1	53:BV:11:GLN:HG3	2.41	0.51
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.92	0.51
50:DS:101:LEU:HD12	50:DS:102:ALA:O	2.11	0.51
52:DU:65:ILE:HD11	52:DU:96:ALA:HB3	1.92	0.51
32:D6:16:CYS:SG	32:D6:48:VAL:HG21	2.50	0.51
56:BY:46:LYS:HB2	56:BY:62:GLU:HG3	1.93	0.51
39:BD:35:LYS:CD	39:BD:36:PRO:N	2.65	0.51
25:AY:215:LYS:HA	25:AY:218:GLU:HB3	1.93	0.51
47:BP:144:GLU:N	47:BP:145:PRO:HD3	2.25	0.51
51:BT:70:VAL:HG12	51:BT:71:GLY:O	2.10	0.51
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HD12	1.93	0.51
22:AV:2:C:H2'	22:AV:3:C:H6	1.76	0.51
51:BT:38:ASN:ND2	51:BT:40:THR:OG1	2.43	0.51
51:BT:55:ASN:HD22	51:BT:58:ASN:ND2	2.08	0.51
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.76	0.51
8:CH:82:HIS:HD2	8:CH:138:TRP:NE1	2.08	0.51
1:AA:543:C:O2'	1:AA:544:G:H5'	2.11	0.51
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CG2	2.41	0.51
36:DA:1528:A:H2'	36:DA:1528:A:N3	2.26	0.51
36:DA:1538:G:H2'	36:DA:1539:G:H8	1.76	0.51
20:CT:86:ARG:NH1	20:CT:86:ARG:HG3	2.25	0.51
54:DW:17:VAL:O	54:DW:19:LEU:N	2.43	0.51
15:CO:83:GLU:O	15:CO:85:LEU:N	2.41	0.51
4:AD:8:VAL:O	4:AD:10:ARG:N	2.40	0.51
36:DA:1719:G:H2'	36:DA:1720:U:H5'	1.93	0.51
38:BC:115:VAL:HA	38:BC:145:THR:HG23	1.93	0.51
1:CA:1301:U:H3'	1:CA:1302:U:C5'	2.41	0.51
9:CI:47:LEU:H	9:CI:47:LEU:HD12	1.70	0.51
8:AH:50:ARG:CB	8:AH:50:ARG:HH11	2.23	0.51
19:AS:9:VAL:HG21	30:B4:53:GLU:CG	2.41	0.51
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.40	0.51
46:DO:13:ASN:HD21	46:DO:97:ARG:HG2	1.76	0.51
25:AY:417:THR:O	25:AY:419:ALA:N	2.41	0.51
36:BA:191:A:H2'	36:BA:192:C:C6	2.45	0.51
33:B7:24:THR:HG23	33:B7:27:GLY:HA3	1.92	0.51
47:DP:140:ALA:O	47:DP:141:ALA:HB3	2.11	0.51
12:AL:79:GLU:HB3	25:AY:442:THR:OG1	2.09	0.51
1:AA:159:G:H2'	1:AA:160:A:H5''	1.93	0.51
34:D8:25:MET:CG	47:DP:64:LYS:HB3	2.40	0.51
36:BA:528:A:C2	36:BA:2043:C:C5'	2.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2658:C:C2'	36:DA:2659:G:H5'	2.41	0.51
1:AA:1320:C:OP1	19:AS:70:LYS:NZ	2.43	0.51
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.75	0.51
41:BF:125:LEU:HD23	41:BF:125:LEU:N	2.26	0.51
36:DA:2850:A:OP2	36:DA:2866:U:H5	1.94	0.51
5:AE:34:VAL:CG1	5:AE:62:ALA:HB1	2.41	0.51
1:CA:559:A:H4'	1:CA:560:U:C5'	2.41	0.51
40:DE:26:ILE:HG13	40:DE:182:LEU:HB3	1.93	0.51
1:AA:358:U:H2'	1:AA:359:U:H6	1.76	0.51
1:CA:45:U:H2'	1:CA:46:G:H8	1.75	0.51
1:CA:1308:U:C5	13:CM:99:ARG:NH1	2.78	0.51
52:BU:101:ARG:NH1	53:BV:13:ARG:HE	2.09	0.51
43:BH:40:GLU:O	43:BH:55:PRO:HD2	2.11	0.51
33:D7:38:GLY:O	36:DA:458:G:H2'	2.11	0.51
36:DA:302:C:H2'	36:DA:303:U:C6	2.45	0.51
4:AD:201:GLN:O	4:AD:205:GLU:HG3	2.10	0.51
36:BA:1847:A:H3'	36:BA:1848:A:C5'	2.41	0.51
1:AA:802:A:H3'	1:AA:803:G:H8	1.76	0.51
49:DR:18:LEU:HD23	49:DR:19:ALA:N	2.26	0.51
36:DA:1165:U:H2'	36:DA:1166:C:C6	2.45	0.51
34:B8:16:ILE:HD12	34:B8:57:ARG:HG2	1.92	0.51
36:BA:1441:G:H2'	36:BA:1442:G:H8	1.75	0.51
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE2	2.46	0.51
15:CO:4:THR:HG23	15:CO:7:GLU:OE1	2.11	0.51
19:CS:72:GLY:O	19:CS:74:PHE:N	2.44	0.51
33:D7:17:GLY:O	33:D7:20:ALA:HB3	2.11	0.51
1:CA:828:A:H2'	1:CA:829:G:O4'	2.11	0.51
36:DA:291:C:H2'	36:DA:292:C:C6	2.46	0.51
5:CE:73:ASN:HD22	5:CE:73:ASN:N	2.07	0.51
57:DZ:94:GLU:O	57:DZ:96:VAL:N	2.44	0.51
36:DA:1949:G:H2'	36:DA:1950:G:C8	2.46	0.51
40:DE:188:VAL:HG23	40:DE:189:PRO:HD2	1.93	0.51
23:CW:34:C:H2'	23:CW:35:A:C4'	2.31	0.51
36:BA:2531:A:OP1	43:BH:177:GLY:C	2.50	0.51
25:CY:141:LYS:HE3	60:CY:702:GDP:HN22	1.75	0.51
36:BA:2131:G:H8	36:BA:2158:A:N6	2.05	0.51
10:CJ:30:SER:HA	10:CJ:80:LYS:HE2	1.93	0.51
32:B6:12:GLU:HG2	32:B6:23:THR:CG2	2.41	0.51
15:AO:71:GLN:HB2	15:AO:78:TYR:CD1	2.46	0.51
55:DX:7:VAL:HB	55:DX:8:ILE:HD12	1.92	0.51
32:D6:37:ARG:CZ	36:DA:2286:A:N7	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1301:A:HO2'	36:DA:1302:A:C2'	2.24	0.51
47:DP:144:GLU:N	47:DP:145:PRO:HD3	2.25	0.51
25:CY:649:LEU:HD21	25:CY:671:MET:HE3	1.93	0.51
47:BP:128:HIS:ND1	47:BP:148:LEU:HD13	2.26	0.51
36:BA:2189:U:H2'	36:BA:2190:G:C5'	2.32	0.51
40:BE:36:ARG:CG	40:BE:36:ARG:NH1	2.73	0.51
40:BE:69:LYS:N	40:BE:69:LYS:HE2	2.25	0.51
20:AT:33:ILE:HG21	20:AT:63:ILE:HG12	1.93	0.51
5:CE:107:ARG:HG2	5:CE:108:ALA:N	2.25	0.51
4:CD:17:VAL:HG11	4:CD:197:PRO:HB2	1.92	0.51
19:CS:47:HIS:O	19:CS:62:ILE:HG21	2.11	0.51
47:DP:75:ILE:CG2	47:DP:77:ARG:HH21	2.23	0.51
45:DN:108:PRO:HG2	45:DN:113:GLY:HA3	1.93	0.51
36:BA:1296:G:H1	36:BA:1644:C:H42	1.59	0.51
9:CI:33:PHE:C	9:CI:35:GLU:H	2.13	0.51
1:CA:407:G:OP1	4:CD:115:ARG:CZ	2.59	0.51
36:BA:893:C:H2'	36:BA:894:C:C6	2.46	0.51
36:BA:216:A:O2'	36:BA:217:G:H5'	2.11	0.51
36:BA:2577:A:C5'	36:BA:2578:G:H5'	2.41	0.51
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.21	0.51
36:BA:1068:G:N2	36:BA:1096:A:H5'	2.24	0.51
1:AA:1221:G:H4'	19:AS:77:THR:HG21	1.93	0.51
43:DH:76:VAL:C	43:DH:78:GLY:N	2.64	0.51
4:CD:61:LYS:HD2	4:CD:207:TYR:OH	2.11	0.51
25:CY:442:THR:HA	25:CY:449:THR:HA	1.93	0.51
4:CD:163:GLU:HA	4:CD:163:GLU:OE1	2.10	0.51
1:AA:159:G:C2'	1:AA:160:A:H5''	2.41	0.51
8:CH:41:ARG:NH2	8:CH:123:GLU:OE1	2.44	0.51
34:B8:25:MET:CG	47:BP:64:LYS:HB3	2.41	0.51
56:DY:88:LYS:O	56:DY:90:LEU:HD23	2.10	0.51
36:DA:1227:G:O2'	36:DA:1228:G:H5'	2.11	0.51
36:DA:389:G:N1	47:DP:71:VAL:HG12	2.26	0.51
38:DC:42:VAL:HG21	38:DC:186:LEU:CD2	2.41	0.51
36:BA:1050:A:H2'	36:BA:1051:G:O4'	2.11	0.51
36:DA:2457:U:H2'	36:DA:2458:G:H5'	1.93	0.51
7:CG:140:ASP:HA	7:CG:143:ARG:HH11	1.76	0.51
19:CS:39:THR:HA	19:CS:70:LYS:HD3	1.92	0.51
57:BZ:99:TYR:CE1	57:BZ:125:LEU:HD13	2.46	0.51
29:B3:40:THR:OG1	29:B3:43:ILE:HG12	2.10	0.51
36:DA:2850:A:C2	49:DR:61:HIS:CD2	2.99	0.51
1:CA:528:C:H41	12:CL:49:ASN:ND2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:127:LYS:HZ3	57:DZ:127:LYS:HB3	1.75	0.51
46:BO:60:ALA:HA	46:BO:87:ILE:HD13	1.93	0.51
36:DA:2606:C:C2'	36:DA:2607:G:H5'	2.40	0.51
52:DU:17:ILE:HG23	52:DU:39:LEU:HD12	1.93	0.51
3:AC:54:ARG:HG2	3:AC:54:ARG:HH11	1.76	0.51
1:AA:603:U:H2'	1:AA:604:G:H8	1.75	0.51
36:BA:1759:A:H2'	36:BA:1760:A:C8	2.46	0.51
7:AG:134:ALA:O	7:AG:137:LYS:N	2.40	0.51
53:BV:53:GLU:O	53:BV:55:ALA:N	2.44	0.51
41:BF:113:ALA:HB1	41:BF:186:ILE:HG21	1.92	0.51
11:CK:12:ARG:HG2	11:CK:13:GLN:N	2.25	0.51
25:CY:661:SER:C	25:CY:663:THR:H	2.14	0.51
8:CH:111:ILE:HG22	8:CH:112:LEU:N	2.25	0.51
36:DA:1465:G:H2'	36:DA:1466:G:H8	1.75	0.51
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.79	0.51
28:B2:45:SER:O	28:B2:46:GLN:NE2	2.44	0.51
28:B2:46:GLN:OE1	28:B2:46:GLN:HA	2.09	0.51
3:AC:129:ALA:O	3:AC:131:ARG:N	2.44	0.51
36:DA:2539:C:H2'	36:DA:2539:C:O2	2.11	0.51
39:BD:268:ARG:HB3	39:BD:268:ARG:NH1	2.25	0.51
36:DA:2124:G:H1'	38:DC:43:GLU:OE1	2.11	0.51
1:AA:1334:G:H5'	1:AA:1335:C:OP2	2.11	0.51
36:DA:773:U:C5'	39:DD:47:GLY:HA2	2.41	0.51
38:DC:115:VAL:HA	38:DC:145:THR:HG23	1.93	0.50
36:DA:2131:G:C8	36:DA:2133:G:N2	2.80	0.50
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.11	0.50
29:D3:15:TYR:HB3	29:D3:19:GLN:NE2	2.25	0.50
32:D6:27:LYS:HB3	32:D6:32:ASN:ND2	2.25	0.50
32:D6:53:LYS:HG3	32:D6:54:ILE:N	2.26	0.50
36:DA:2345:G:C5'	36:DA:2346:A:H5'	2.41	0.50
39:BD:39:LYS:HB2	39:BD:62:TYR:CB	2.40	0.50
36:BA:2305:A:O2'	42:BG:136:ARG:NH1	2.44	0.50
51:BT:50:ILE:HD11	51:BT:64:ARG:HB3	1.93	0.50
39:DD:165:ILE:HD13	39:DD:175:LEU:CD2	2.39	0.50
25:AY:409:ILE:CD1	25:AY:654:GLY:HA2	2.41	0.50
27:B1:82:LEU:HB3	27:B1:90:ILE:HD12	1.92	0.50
8:CH:104:ARG:NH2	8:CH:138:TRP:CZ3	2.80	0.50
36:BA:594:U:H2'	36:BA:595:C:C6	2.46	0.50
36:BA:2713:A:C3'	36:BA:2714:G:H5'	2.40	0.50
2:AB:21:ARG:CD	2:AB:39:ILE:HG12	2.36	0.50
36:BA:481:G:H1'	36:BA:506:G:N2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1226:C:H5''	13:CM:103:THR:OG1	2.11	0.50
28:D2:37:PHE:HE2	55:DX:47:PHE:HZ	1.57	0.50
4:CD:98:GLU:CD	4:CD:103:ASN:HD21	2.14	0.50
12:AL:83:VAL:CG1	12:AL:100:ILE:HG23	2.40	0.50
22:AV:16:U:H4'	22:AV:16:U:OP1	2.11	0.50
43:BH:83:TYR:HA	43:BH:135:GLY:O	2.10	0.50
41:DF:53:THR:HG23	41:DF:55:GLY:N	2.25	0.50
51:DT:11:GLU:O	51:DT:14:TYR:CE1	2.63	0.50
1:CA:191:G:C2	20:CT:105:SER:HB3	2.45	0.50
36:BA:1614:A:H2'	36:BA:1615:C:H5'	1.93	0.50
36:BA:1578:U:H2'	36:BA:1579:A:C5'	2.40	0.50
36:BA:279:C:H3'	36:BA:280:C:H5''	1.92	0.50
54:DW:15:ARG:HA	54:DW:18:ARG:HD2	1.92	0.50
38:BC:101:ILE:N	38:BC:101:ILE:HD12	2.27	0.50
4:CD:78:LEU:HD21	4:CD:96:LEU:CB	2.41	0.50
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.93	0.50
11:CK:21:ILE:HD13	11:CK:82:VAL:HG13	1.92	0.50
26:D0:20:ARG:CG	26:D0:20:ARG:HH11	2.24	0.50
4:AD:117:ALA:O	4:AD:121:VAL:HG23	2.11	0.50
1:AA:390:C:H2'	1:AA:391:G:C8	2.46	0.50
36:BA:2464:C:O2'	36:BA:2465:C:H6	1.92	0.50
25:CY:67:ALA:HB2	25:CY:358:MET:HG3	1.93	0.50
56:DY:29:GLU:N	56:DY:29:GLU:OE1	2.44	0.50
36:BA:688:U:C4'	36:BA:1780:A:C2	2.92	0.50
1:CA:59:A:H3'	1:CA:331:G:H22	1.75	0.50
17:CQ:9:VAL:CG1	17:CQ:56:VAL:HG22	2.41	0.50
23:AW:38:A:H8	23:AW:38:A:O5'	1.94	0.50
1:CA:821:G:H2'	1:CA:822:C:H6	1.76	0.50
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.76	0.50
41:BF:6:VAL:H	41:BF:125:LEU:HD21	1.75	0.50
29:D3:44:ARG:O	29:D3:47:VAL:N	2.44	0.50
43:BH:136:ILE:HD12	43:BH:136:ILE:H	1.76	0.50
1:AA:991:U:C4	1:AA:1212:U:H1'	2.46	0.50
36:BA:484:C:H2'	36:BA:485:C:H6	1.76	0.50
49:DR:52:ILE:O	49:DR:55:ALA:HB3	2.11	0.50
45:BN:38:HIS:O	52:BU:67:ALA:HB1	2.10	0.50
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.41	0.50
25:AY:6:GLU:HG2	25:AY:6:GLU:O	2.10	0.50
37:DB:106:G:C5'	57:DZ:31:ARG:HB3	2.42	0.50
1:CA:22:G:O2'	1:CA:913:A:N1	2.34	0.50
36:DA:1216:G:H2'	36:DA:1217:C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1930:G:O2'	36:BA:1931:U:OP2	2.28	0.50
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.76	0.50
53:DV:13:ARG:HG3	53:DV:13:ARG:HH11	1.76	0.50
1:AA:812:C:O2'	1:AA:813:U:OP2	2.24	0.50
32:D6:33:LYS:HG2	32:D6:34:LEU:N	2.27	0.50
25:AY:484:ARG:NE	25:AY:559:PRO:HB2	2.25	0.50
32:D6:42:TRP:HA	32:D6:42:TRP:HE3	1.76	0.50
30:D4:39:CYS:O	30:D4:42:PHE:CE2	2.63	0.50
6:AF:22:GLU:C	6:AF:24:GLU:N	2.65	0.50
2:CB:63:MET:HG3	2:CB:63:MET:O	2.11	0.50
36:DA:42:G:H3'	36:DA:43:A:H8	1.76	0.50
3:CC:129:ALA:HB3	3:CC:132:ARG:HB3	1.92	0.50
51:DT:134:GLU:O	51:DT:135:ALA:HB2	2.10	0.50
3:AC:186:PHE:HA	3:AC:198:VAL:O	2.12	0.50
36:DA:1632:A:C5	36:DA:1633:G:C6	2.99	0.50
1:AA:342:C:O2'	1:AA:343:U:H5'	2.10	0.50
36:DA:74:A:O2'	36:DA:75:G:OP2	2.24	0.50
23:CW:44:A:H2'	23:CW:45:G:C8	2.46	0.50
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.64	0.50
1:CA:427:U:C4	1:CA:428:G:C6	2.99	0.50
36:DA:682:G:H2'	36:DA:683:C:H6	1.76	0.50
36:DA:613:G:C8	36:DA:613:G:H5'	2.40	0.50
25:CY:329:ARG:HG2	25:CY:331:TYR:CZ	2.46	0.50
25:CY:91:THR:O	25:CY:92:ILE:HG22	2.11	0.50
43:BH:169:VAL:C	43:BH:170:ARG:HG3	2.32	0.50
25:CY:529:ILE:HD11	25:CY:567:LEU:CD1	2.34	0.50
36:BA:2131:G:C8	36:BA:2133:G:N2	2.79	0.50
53:BV:19:LYS:HG2	53:BV:94:LEU:CB	2.39	0.50
36:BA:2292:C:O2'	36:BA:2293:C:H5'	2.12	0.50
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CD2	2.47	0.50
55:BX:7:VAL:HB	55:BX:8:ILE:HD12	1.93	0.50
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.73	0.50
47:DP:25:SER:O	47:DP:30:THR:HG23	2.10	0.50
57:DZ:27:VAL:HG22	57:DZ:28:MET:N	2.27	0.50
32:D6:12:GLU:HG2	32:D6:23:THR:CG2	2.42	0.50
32:D6:54:ILE:CD1	36:DA:2420:C:H5'	2.42	0.50
32:B6:53:LYS:HG3	32:B6:54:ILE:N	2.26	0.50
34:B8:32:LEU:H	34:B8:32:LEU:CD2	2.23	0.50
36:BA:271(I):G:H3'	36:BA:271(J):C:H6	1.76	0.50
51:DT:90:GLN:HG2	51:DT:120:ARG:NH2	2.25	0.50
51:BT:32:TYR:O	51:BT:33:LYS:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:189:ASP:OD2	2:CB:205:ASP:OD1	2.28	0.50
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.59	0.50
8:AH:104:ARG:NH2	8:AH:138:TRP:CZ3	2.79	0.50
1:AA:974:A:H8	1:AA:974:A:OP1	1.95	0.50
23:AW:49:G:H2'	23:AW:50:U:O4'	2.10	0.50
23:AW:61:C:H2'	23:AW:62:C:H6	1.74	0.50
43:BH:13:LYS:HA	43:BH:13:LYS:CE	2.37	0.50
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.46	0.50
14:AN:47:LEU:O	14:AN:50:LYS:N	2.44	0.50
1:AA:624:C:H2'	1:AA:625:G:H8	1.77	0.50
23:CW:22:G:C2'	23:CW:23:C:C5'	2.88	0.50
36:DA:729:G:N7	39:DD:208:LYS:HB2	2.25	0.50
38:BC:128:LEU:CD1	38:BC:132:LEU:HG	2.40	0.50
5:AE:60:TYR:CE1	5:AE:64:ARG:NH2	2.75	0.50
36:DA:1578:U:H2'	36:DA:1579:A:C5'	2.39	0.50
56:DY:2:ARG:HG2	56:DY:2:ARG:NH1	2.26	0.50
40:BE:24:THR:HG22	40:BE:186:GLY:HA2	1.93	0.50
54:BW:14:PRO:CG	54:BW:78:GLU:HB2	2.41	0.50
15:CO:76:GLU:C	15:CO:78:TYR:H	2.15	0.50
54:BW:59:VAL:HG12	54:BW:59:VAL:O	2.10	0.50
25:CY:346:LYS:NZ	25:CY:384:ILE:HG12	2.26	0.50
15:AO:64:ARG:CG	15:AO:64:ARG:HH11	2.21	0.50
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.76	0.50
39:BD:227:ASN:O	39:BD:228:PRO:C	2.50	0.50
1:CA:990:C:H2'	1:CA:991:U:C6	2.46	0.50
36:BA:1841:U:H2'	36:BA:1842:G:H8	1.76	0.50
36:DA:1352:U:O2'	36:DA:1353:A:H5'	2.11	0.50
36:BA:1666:G:O3'	46:BO:6:THR:HG23	2.12	0.50
1:AA:529:G:O6	12:AL:49:ASN:HA	2.11	0.50
36:BA:460:A:H2'	36:BA:461:C:O4'	2.12	0.50
2:CB:60:ASP:HB3	2:CB:64:ARG:HH21	1.76	0.50
38:BC:42:VAL:HG21	38:BC:186:LEU:HD22	1.93	0.50
1:AA:781:A:C3'	1:AA:782:A:H5'	2.41	0.50
44:BJ:56:UNK:CB	44:BJ:83:UNK:HA	2.41	0.50
30:B4:42:PHE:CD1	30:B4:42:PHE:N	2.78	0.50
21:CU:10:ARG:O	21:CU:13:ILE:N	2.45	0.50
3:CC:129:ALA:O	3:CC:131:ARG:N	2.44	0.50
9:CI:37:PHE:HB3	9:CI:43:ALA:HB2	1.93	0.50
36:DA:706:A:H2'	36:DA:707:G:O4'	2.11	0.50
36:DA:18:C:O2'	52:DU:23:GLY:HA2	2.11	0.50
2:AB:63:MET:HB3	2:AB:225:ALA:HB1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:11:SER:HB3	36:BA:988:A:P	2.51	0.50
36:BA:2506:U:H4'	36:BA:2507:C:OP1	2.11	0.50
36:DA:654(E):G:H2'	36:DA:654(F):C:H5'	1.93	0.50
1:AA:1332:A:O2'	1:AA:1333:A:H5'	2.11	0.50
36:BA:703:U:O2'	36:BA:704:G:H5'	2.11	0.50
55:BX:59:VAL:O	55:BX:59:VAL:HG12	2.10	0.50
42:DG:133:LEU:HD11	42:DG:157:ILE:HD12	1.93	0.50
25:CY:125:ALA:HB3	25:CY:132:ARG:HH11	1.76	0.50
25:CY:298:VAL:HG22	25:CY:299:VAL:H	1.76	0.50
25:AY:124:GLN:HA	25:AY:127:LYS:HD3	1.93	0.50
25:AY:33:LEU:HD12	25:AY:33:LEU:N	2.26	0.50
41:DF:168:ARG:HG2	41:DF:175:THR:HG21	1.93	0.50
25:CY:196:ILE:O	25:CY:196:ILE:HD12	2.11	0.50
25:CY:259:PHE:C	25:CY:260:LEU:HD13	2.31	0.50
25:CY:539:ILE:CA	25:CY:542:VAL:HG12	2.40	0.50
25:CY:512:ILE:HG22	25:CY:567:LEU:CA	2.41	0.50
29:D3:31:LEU:HD13	29:D3:32:GLN:CG	2.23	0.50
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.76	0.50
31:B5:40:LYS:HE2	31:B5:46:CYS:CB	2.38	0.50
39:BD:139:GLY:H	39:BD:165:ILE:HB	1.76	0.50
25:AY:243:VAL:HG13	25:AY:279:TYR:CE1	2.47	0.50
47:BP:144:GLU:O	47:BP:144:GLU:HG2	2.11	0.50
31:B5:3:LYS:HZ3	36:BA:2613:U:H2'	1.75	0.50
10:AJ:6:ILE:C	10:AJ:6:ILE:HD12	2.32	0.50
1:CA:1004:A:C6	1:CA:1034:G:H2'	2.46	0.50
13:CM:19:LEU:O	13:CM:22:ILE:HD13	2.11	0.50
13:CM:6:GLY:O	13:CM:8:GLU:N	2.42	0.50
49:BR:17:ARG:O	49:BR:20:LEU:HB3	2.11	0.50
51:BT:79:HIS:O	51:BT:80:SER:HB3	2.12	0.50
8:CH:104:ARG:O	8:CH:105:ARG:C	2.50	0.50
51:DT:55:ASN:HD22	51:DT:58:ASN:ND2	2.09	0.50
36:DA:1656:C:H2'	36:DA:1657:C:C6	2.46	0.50
30:D4:51:ASP:OD1	30:D4:52:THR:HG23	2.12	0.50
37:BB:81:G:N3	37:BB:81:G:H5'	2.26	0.50
36:BA:1052:C:H3'	36:BA:1052:C:H6	1.75	0.50
36:DA:621:A:C2'	36:DA:622:G:H5'	2.37	0.50
54:DW:20:VAL:HG23	54:DW:21:VAL:N	2.27	0.50
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.27	0.50
36:DA:1188:U:H5'	53:DV:79:VAL:CG1	2.41	0.50
1:CA:543:C:O2'	1:CA:544:G:H5'	2.12	0.50
36:BA:1614:A:N6	54:BW:93:ALA:HB2	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:61:TYR:O	19:CS:62:ILE:HB	2.09	0.50
43:DH:41:MET:SD	43:DH:53:GLU:N	2.84	0.50
36:BA:1576:U:H2'	36:BA:1577:C:C6	2.47	0.50
12:AL:47:LYS:HD2	12:AL:48:PRO:CD	2.41	0.50
17:CQ:52:LYS:H	17:CQ:52:LYS:CE	2.24	0.50
1:CA:942:G:H21	9:CI:124:GLN:NE2	2.09	0.50
45:DN:30:ILE:O	45:DN:34:LEU:HD23	2.12	0.50
54:BW:20:VAL:HG23	54:BW:21:VAL:N	2.27	0.50
57:BZ:101:PRO:O	57:BZ:136:PHE:HA	2.11	0.50
56:DY:30:VAL:HG12	56:DY:31:LEU:H	1.75	0.50
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.93	0.50
36:DA:175:G:O2'	36:DA:176:G:H5'	2.10	0.50
43:BH:76:VAL:C	43:BH:78:GLY:N	2.64	0.50
1:AA:512:U:H2'	1:AA:513:C:C6	2.47	0.50
36:BA:2462:U:H2'	36:BA:2463:C:H6	1.76	0.50
36:BA:654(T):C:H2'	36:BA:654(U):A:N9	2.26	0.50
36:BA:1668:A:N6	36:BA:1676:A:H61	2.08	0.50
43:BH:35:VAL:HG11	43:BH:72:ILE:HD13	1.94	0.50
27:D1:80:LEU:HB3	27:D1:82:LEU:CD1	2.41	0.50
1:CA:658:G:H2'	1:CA:659:U:C6	2.46	0.50
36:DA:1227:G:OP1	52:DU:13:LYS:HG2	2.11	0.50
36:BA:1196:C:H2'	36:BA:1197:G:O4'	2.11	0.50
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.93	0.50
55:DX:57:LEU:HD22	55:DX:57:LEU:O	2.10	0.50
46:BO:87:ILE:HD13	46:BO:87:ILE:H	1.76	0.50
40:BE:161:GLY:O	40:BE:162:ALA:C	2.49	0.50
2:CB:69:LEU:HD11	2:CB:93:VAL:HG23	1.93	0.50
36:BA:1567:A:H5'	39:BD:58:HIS:CD2	2.47	0.50
36:DA:1405:U:H2'	36:DA:1406:U:C6	2.46	0.50
1:AA:907:A:C2	1:AA:908:A:C4	3.00	0.50
36:DA:445:C:O2'	36:DA:446:G:H5'	2.12	0.50
6:AF:15:ASP:C	6:AF:17:SER:N	2.64	0.50
11:AK:44:SER:O	11:AK:46:GLY:N	2.45	0.50
7:CG:152:ALA:O	7:CG:155:ARG:HG3	2.10	0.50
36:BA:271(K):U:H3'	36:BA:271(L):U:H5''	1.93	0.50
33:D7:25:PRO:HB3	33:D7:28:ARG:NH2	2.26	0.50
11:CK:24:SER:O	11:CK:88:GLY:HA3	2.12	0.50
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.76	0.50
44:BJ:117:UNK:HA	44:BJ:121:UNK:O	2.11	0.50
1:CA:63:C:O2'	1:CA:380:G:H4'	2.11	0.50
48:DQ:10:ARG:HB2	48:DQ:10:ARG:HH11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:26:PHE:N	5:CE:26:PHE:CD1	2.78	0.50
36:BA:366:C:H5'	36:BA:370:G:H5'	1.93	0.50
49:BR:18:LEU:HD21	49:BR:22:ARG:NE	2.25	0.50
1:CA:1058:G:O5'	1:CA:1058:G:H8	1.93	0.50
1:AA:926:G:C6	1:AA:1505:G:C6	3.00	0.50
59:CY:701:FUA:O1	59:CY:701:FUA:C1	2.57	0.50
25:AY:12:LEU:HD12	25:AY:14:ASN:ND2	2.24	0.50
41:BF:167:ALA:O	41:BF:169:ASN:N	2.45	0.50
25:CY:147:TRP:O	25:CY:151:ARG:HG3	2.10	0.50
30:B4:1:MET:N	30:B4:1:MET:SD	2.76	0.50
49:BR:100:LEU:N	49:BR:100:LEU:HD22	2.21	0.50
25:AY:546:ILE:HG12	25:AY:590:ILE:CG1	2.41	0.50
32:B6:53:LYS:CG	32:B6:54:ILE:H	2.19	0.50
32:B6:45:LYS:HE3	36:BA:2371:G:H5''	1.92	0.50
56:DY:44:ILE:O	56:DY:62:GLU:HB3	2.11	0.50
25:CY:649:LEU:CD2	25:CY:671:MET:HE3	2.41	0.50
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.11	0.50
1:CA:265:G:O2'	1:CA:266:G:H5'	2.12	0.50
36:DA:2053:G:H1	36:DA:2616:C:H42	1.60	0.50
36:BA:110:G:O2'	36:BA:111:A:H5'	2.12	0.50
1:AA:174:C:O2'	1:AA:175:C:H5'	2.11	0.50
36:DA:2884:U:H2'	36:DA:2885:C:H5'	1.93	0.50
40:DE:69:LYS:O	40:DE:71:GLY:N	2.44	0.50
40:BE:67:PHE:O	40:BE:70:ALA:HB2	2.11	0.50
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.93	0.50
36:DA:2562:U:H1'	46:DO:23:ARG:NH1	2.18	0.50
36:DA:583:G:C4	36:DA:584:C:C5	2.98	0.50
1:AA:521:G:O2'	1:AA:522:C:H5'	2.11	0.50
38:DC:182:PRO:HD2	38:DC:185:LYS:CG	2.41	0.50
43:DH:43:VAL:CG1	43:DH:52:VAL:HA	2.39	0.50
52:BU:57:PHE:C	52:BU:59:ARG:N	2.64	0.50
25:CY:272:LEU:HA	25:CY:275:ALA:CB	2.39	0.50
9:CI:125:TYR:CD1	9:CI:126:SER:N	2.78	0.50
36:DA:2617:C:O2'	36:DA:2618:G:H5'	2.11	0.50
12:CL:91:LYS:HG3	12:CL:91:LYS:O	2.10	0.50
1:CA:1221:G:H4'	19:CS:77:THR:HG21	1.93	0.50
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.42	0.50
1:CA:539:A:H2'	1:CA:540:G:H8	1.76	0.50
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.26	0.50
36:BA:16:G:H2'	36:BA:17:G:H8	1.77	0.50
25:CY:402:ILE:HG22	25:CY:402:ILE:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:512:U:H2'	1:CA:513:C:C6	2.46	0.50
8:CH:91:ARG:HB2	12:CL:7:ILE:HG21	1.94	0.50
1:AA:188:C:H2'	1:AA:189:G:H8	1.77	0.50
36:DA:1131:G:H21	45:DN:73:THR:HG21	1.76	0.50
57:BZ:146:ILE:HA	57:BZ:174:VAL:O	2.11	0.50
36:BA:1430:C:H2'	36:BA:1431:U:H6	1.76	0.50
39:BD:28:GLU:HB2	39:BD:29:PRO:HD3	1.92	0.50
40:BE:101:ARG:NH1	40:BE:169:ASN:ND2	2.59	0.50
40:BE:16:ARG:NH1	40:BE:171:GLU:OE2	2.44	0.50
36:DA:324:A:N6	36:DA:338:G:O2'	2.44	0.50
36:DA:1297:C:H2'	36:DA:1298:C:H6	1.76	0.50
30:B4:39:CYS:SG	30:B4:42:PHE:CE2	2.98	0.50
36:BA:2860:A:C2'	36:BA:2861:G:H5'	2.42	0.50
36:DA:18:C:O2	36:DA:554:U:H5''	2.11	0.50
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.14	0.50
1:CA:1065:U:O2'	1:CA:1066:C:P	2.70	0.50
5:CE:88:LYS:HB3	5:CE:123:LEU:O	2.11	0.50
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.11	0.50
46:BO:88:ASN:OD1	46:BO:92:GLU:HB2	2.11	0.50
44:BJ:10:UNK:O	44:BJ:11:UNK:CB	2.60	0.50
36:DA:2494:G:O2'	36:DA:2495:G:H5'	2.10	0.50
36:DA:564:C:O2'	36:DA:565:C:H5'	2.12	0.50
1:CA:693:G:H21	23:CW:37:A:H2	1.58	0.50
37:DB:58:A:H2'	37:DB:59:A:C8	2.46	0.50
24:CX:11:A:C3'	24:CX:11:A:N3	2.74	0.50
42:DG:61:ALA:O	42:DG:64:THR:HG22	2.11	0.50
25:CY:14:ASN:ND2	25:CY:14:ASN:N	2.59	0.50
59:CY:701:FUA:C20	59:CY:701:FUA:H5	2.12	0.50
36:BA:2472:G:H3'	36:BA:2475:C:N4	2.26	0.50
47:DP:24:GLY:HA2	47:DP:33:ARG:NH1	2.26	0.50
25:AY:546:ILE:CG2	25:AY:590:ILE:HG13	2.35	0.50
13:AM:66:LEU:CD1	13:AM:66:LEU:N	2.73	0.50
36:DA:1142(A):A:O2'	36:DA:1143:A:H5''	2.10	0.50
12:AL:41:ARG:NH1	12:AL:41:ARG:CB	2.72	0.50
40:BE:133:LYS:C	40:BE:134:ILE:HD12	2.31	0.50
47:DP:128:HIS:ND1	47:DP:148:LEU:HD13	2.27	0.50
56:DY:52:SER:N	56:DY:53:PRO:HD2	2.26	0.50
27:B1:56:GLN:CA	27:B1:56:GLN:HE21	2.16	0.50
51:DT:50:ILE:HG13	51:DT:102:ILE:HD11	1.93	0.50
56:BY:52:SER:N	56:BY:53:PRO:HD2	2.25	0.50
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2888:C:H2'	36:BA:2889:C:H6	1.77	0.50
47:BP:33:ARG:O	47:BP:35:HIS:O	2.28	0.50
8:CH:10:LEU:HD22	8:CH:83:ILE:CD1	2.41	0.50
39:BD:27:THR:HG23	39:BD:83:GLU:HG2	1.92	0.50
23:AW:23:C:O2'	23:AW:24:U:H5'	2.12	0.50
36:BA:1658:C:OP1	40:BE:132:HIS:O	2.29	0.50
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.92	0.50
8:AH:9:MET:O	8:AH:10:LEU:C	2.50	0.50
36:DA:481:G:P	56:DY:47:LYS:HD3	2.52	0.50
42:BG:56:ALA:HB1	42:BG:153:ARG:NH2	2.26	0.50
42:BG:73:ALA:CB	42:BG:87:PRO:HG3	2.41	0.50
55:DX:26:TYR:CE2	55:DX:89:ILE:HB	2.47	0.50
36:BA:286:C:H6	36:BA:286:C:H5'	1.76	0.50
57:BZ:40:ASP:HB3	57:BZ:43:GLU:OE2	2.12	0.50
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.27	0.50
39:BD:117:VAL:CG2	39:BD:118:VAL:N	2.73	0.50
40:DE:55:ASN:C	40:DE:57:LYS:H	2.14	0.50
34:B8:60:LEU:C	34:B8:63:PRO:HD2	2.32	0.50
36:DA:90:U:H4'	36:DA:92:A:C8	2.47	0.50
49:DR:115:GLU:HG2	49:DR:117:VAL:H	1.75	0.50
4:AD:18:LYS:HE2	4:AD:20:TYR:CE1	2.40	0.50
36:DA:881:G:C2'	36:DA:882:G:H5'	2.41	0.50
54:DW:58:ALA:O	54:DW:63:ASP:N	2.44	0.50
56:BY:2:ARG:HG2	56:BY:2:ARG:NH1	2.26	0.50
53:DV:35:LEU:O	53:DV:37:VAL:N	2.45	0.50
36:DA:295:G:H2'	36:DA:296:C:C6	2.46	0.50
57:DZ:85:HIS:HE1	57:DZ:87:ASP:OD1	1.95	0.50
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.65	0.50
19:AS:37:ARG:O	19:AS:70:LYS:HD2	2.12	0.50
1:CA:56:U:H2'	1:CA:57:G:H8	1.75	0.50
1:AA:59:A:H3'	1:AA:331:G:H22	1.75	0.50
25:AY:314:PHE:CD1	25:AY:315:LYS:HB2	2.46	0.50
36:DA:2115:G:H3'	36:DA:2116:G:C5'	2.41	0.50
53:BV:25:LEU:H	53:BV:92:THR:CG2	2.24	0.50
40:DE:201:THR:C	40:DE:202:LYS:HD2	2.32	0.50
1:AA:114:U:H2'	1:AA:115:G:C8	2.46	0.50
25:CY:494:GLU:HG2	25:CY:495:GLY:H	1.77	0.50
6:CF:14:LEU:HD22	6:CF:18:GLN:NE2	2.27	0.50
1:AA:745:C:H2'	1:AA:746:A:C8	2.46	0.50
36:BA:1461:G:H2'	36:BA:1462:C:C6	2.46	0.50
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B4:36:CYS:SG	30:B4:37:SER:N	2.85	0.50
32:B6:42:TRP:HA	32:B6:42:TRP:HE3	1.75	0.50
6:AF:15:ASP:OD1	6:AF:17:SER:HB2	2.12	0.50
57:DZ:92:SER:HB3	57:DZ:94:GLU:OE1	2.11	0.50
40:BE:144:ARG:O	40:BE:145:LYS:C	2.48	0.50
36:DA:2647:U:H2'	36:DA:2648:C:C6	2.47	0.50
36:BA:1655:A:C2	36:BA:2049:G:H4'	2.46	0.50
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.27	0.50
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.79	0.50
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.74	0.50
36:DA:1591:G:O2'	36:DA:1592:C:H5'	2.11	0.50
38:DC:115:VAL:HB	38:DC:150:ILE:HD11	1.94	0.50
42:DG:53:LEU:HD12	42:DG:56:ALA:HB2	1.93	0.50
25:CY:15:ILE:O	25:CY:81:ILE:HA	2.12	0.50
25:AY:122:TRP:HZ3	25:AY:256:THR:HG21	1.77	0.50
41:DF:160:ASN:ND2	41:DF:162:LEU:HD13	2.26	0.50
1:CA:1347:G:HO2'	1:CA:1373:G:H1	1.59	0.50
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.74	0.50
36:BA:2584:U:C2'	36:BA:2585:U:C5'	2.82	0.50
36:DA:2472:G:H5'	36:DA:2473:U:O5'	2.12	0.50
36:DA:1052:C:P	36:DA:1052:C:O4'	2.69	0.50
42:BG:67:LYS:HD3	42:BG:68:PRO:N	2.27	0.50
37:DB:48:A:H2'	37:DB:49:C:H6	1.77	0.50
36:BA:2687:U:C4	36:BA:2688:U:C5	2.99	0.50
25:AY:485:GLU:CB	25:AY:560:VAL:HG22	2.42	0.50
34:B8:33:ASN:HA	34:B8:36:LYS:HG3	1.93	0.50
36:DA:1022:G:O2'	36:DA:1023:U:OP2	2.27	0.50
47:DP:106:LEU:O	47:DP:107:LYS:HG2	2.11	0.50
47:DP:113:LYS:HA	47:DP:129:ALA:O	2.12	0.50
25:AY:180:VAL:CG2	25:AY:181:LEU:N	2.75	0.50
36:BA:637:A:H4'	36:BA:638:G:O5'	2.11	0.50
51:BT:85:LYS:HZ3	51:BT:85:LYS:HB3	1.74	0.50
39:DD:130:ALA:HB2	39:DD:192:THR:HB	1.93	0.50
51:DT:50:ILE:HD11	51:DT:64:ARG:HB3	1.93	0.50
27:D1:76:ARG:HH22	27:D1:95:LEU:CG	2.25	0.50
1:CA:194:C:C2'	1:CA:195:A:H5''	2.42	0.50
45:BN:131:GLN:NE2	45:BN:133:GLN:N	2.58	0.50
48:DQ:27:VAL:H	48:DQ:137:TYR:HD2	1.59	0.50
16:AP:25:ARG:HG3	16:AP:25:ARG:NH1	2.23	0.50
54:DW:25:ARG:HB2	54:DW:25:ARG:NH1	2.27	0.50
25:AY:519:ARG:NH1	25:AY:678:GLU:N	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1542:A:C8	36:BA:1542:A:H3'	2.47	0.50
1:AA:974:A:C8	14:AN:31:ARG:HD2	2.47	0.50
54:BW:25:ARG:HB2	54:BW:25:ARG:NH1	2.27	0.50
36:BA:287:C:H2'	36:BA:288:C:H6	1.77	0.50
18:CR:44:LEU:HD22	18:CR:79:LEU:HD22	1.93	0.50
57:DZ:65:GLN:HB3	57:DZ:67:LEU:CD1	2.40	0.50
36:DA:2876:G:H5'	51:DT:3:ARG:HA	1.92	0.50
5:CE:90:VAL:O	5:CE:120:THR:HA	2.12	0.50
54:DW:50:VAL:HG11	54:DW:103:ILE:CG2	2.42	0.50
19:CS:19:VAL:CG1	19:CS:44:MET:HG2	2.41	0.50
36:BA:2469:A:O3'	48:BQ:56:ARG:NH1	2.45	0.50
36:BA:654(P):C:O2'	36:BA:654(Q):C:H5'	2.11	0.50
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.55	0.50
54:BW:17:VAL:O	54:BW:19:LEU:N	2.44	0.50
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.27	0.50
50:DS:40:ILE:CG2	50:DS:41:ASP:N	2.75	0.50
36:DA:2147:G:H2'	36:DA:2148:G:C5'	2.41	0.50
56:BY:2:ARG:HG2	56:BY:2:ARG:HH11	1.76	0.50
1:CA:932:C:H4'	7:CG:4:ARG:NH2	2.26	0.50
40:DE:24:THR:HG22	40:DE:186:GLY:HA2	1.93	0.50
36:BA:657:U:H2'	36:BA:658:C:H6	1.75	0.50
42:BG:131:TYR:HB3	42:BG:159:VAL:HG13	1.93	0.50
31:B5:29:THR:HG21	36:BA:2814:C:O2'	2.11	0.50
28:B2:16:LEU:O	28:B2:20:GLU:HG2	2.12	0.50
10:CJ:47:PHE:CE2	14:CN:37:PHE:HE1	2.28	0.50
25:CY:402:ILE:O	25:CY:404:VAL:HG23	2.11	0.50
36:DA:1841:U:H2'	36:DA:1842:G:H8	1.77	0.50
36:BA:1639:U:H2'	36:BA:1640:C:H5''	1.92	0.50
36:DA:2658:C:H2'	36:DA:2659:G:H5'	1.94	0.50
47:DP:71:VAL:H	47:DP:72:PRO:HD3	1.76	0.50
47:BP:71:VAL:H	47:BP:72:PRO:HD3	1.76	0.50
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.24	0.50
36:DA:2075:U:C2'	36:DA:2076:U:H5''	2.42	0.50
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.94	0.50
36:DA:557:U:H2'	36:DA:558:G:H8	1.76	0.50
36:BA:2348:U:H2'	36:BA:2349:G:H5'	1.93	0.50
23:CW:27:U:O2'	23:CW:28:C:H5'	2.11	0.50
1:CA:143:A:H2	1:CA:220:G:H1	1.59	0.50
43:DH:40:GLU:HG3	43:DH:64:LEU:CD1	2.42	0.50
9:CI:11:LYS:O	9:CI:11:LYS:HG2	2.11	0.50
36:DA:271(I):G:H3'	36:DA:271(J):C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:28:C:O2'	37:DB:29:A:H5'	2.11	0.50
36:DA:2707:G:H2'	36:DA:2708:G:H8	1.76	0.50
36:BA:1629:U:H2'	36:BA:1630:G:C8	2.46	0.50
50:BS:25:ARG:CG	50:BS:26:LEU:H	2.25	0.50
37:BB:28:C:O2'	37:BB:29:A:H5'	2.12	0.50
15:CO:69:TYR:CZ	15:CO:73:GLU:HG3	2.47	0.50
39:DD:96:HIS:CE1	39:DD:102:LYS:HE2	2.46	0.50
36:BA:2239:G:H5'	39:BD:251:GLY:HA3	1.93	0.50
36:BA:696:G:C2	36:BA:767:U:O2	2.65	0.50
25:AY:357:ARG:HG3	25:AY:357:ARG:HH11	1.76	0.50
30:B4:45:GLY:O	30:B4:46:GLN:HB2	2.12	0.50
24:CX:11:A:O2'	24:CX:12:A:OP2	2.30	0.50
24:AX:11:A:O2'	24:AX:12:A:OP2	2.30	0.50
25:AY:97:SER:O	25:AY:101:LEU:HG	2.12	0.50
25:AY:20:HIS:O	25:AY:21:ILE:O	2.29	0.50
1:CA:979:C:C3'	1:CA:980:C:C5'	2.80	0.50
25:CY:111:SER:OG	25:CY:141:LYS:HB3	2.11	0.50
25:CY:590:ILE:HA	25:CY:593:ALA:HB3	1.93	0.50
1:AA:980:C:H5	1:AA:981:U:C2	2.30	0.50
53:BV:40:LEU:CA	53:BV:45:THR:HB	2.40	0.50
2:CB:169:LYS:HD3	2:CB:169:LYS:O	2.10	0.50
45:DN:46:VAL:CG1	45:DN:47:ALA:H	2.14	0.50
57:BZ:171:ILE:O	57:BZ:172:ALA:HB2	2.11	0.50
36:BA:1345:C:O2'	36:BA:1346:G:H5'	2.11	0.50
29:B3:31:LEU:HD13	29:B3:32:GLN:CG	2.27	0.50
32:B6:30:THR:O	32:B6:31:PRO:C	2.50	0.50
34:B8:33:ASN:HA	34:B8:36:LYS:HD2	1.94	0.50
36:BA:363:G:H2'	36:BA:363(A):A:H8	1.76	0.50
25:CY:227:ILE:HG12	25:CY:237:PRO:HB3	1.93	0.50
49:DR:24:GLN:HE22	49:DR:36:THR:HG21	1.74	0.50
36:DA:2373:G:H2'	36:DA:2374:C:C6	2.47	0.50
47:BP:83:VAL:H	47:BP:115:LEU:CD2	2.24	0.50
51:BT:107:ASP:CG	51:BT:108:ARG:H	2.15	0.50
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.30	0.50
36:DA:1505:C:C5	36:DA:1506:C:H1'	2.47	0.50
47:BP:33:ARG:O	47:BP:34:GLY:C	2.50	0.50
13:AM:19:LEU:O	13:AM:22:ILE:HD13	2.12	0.50
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.92	0.50
5:CE:145:LYS:CA	8:CH:107:LEU:HD21	2.41	0.50
36:BA:1658:C:O5'	36:BA:1658:C:H6	1.95	0.50
2:AB:189:ASP:OD2	2:AB:205:ASP:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:30:LYS:NZ	20:AT:34:LYS:HE3	2.25	0.50
36:DA:1257:C:O2'	41:DF:84:VAL:HG23	2.12	0.50
36:DA:2713:A:C3'	36:DA:2714:G:H5'	2.41	0.50
1:CA:1227:A:H2'	13:CM:117:VAL:CG2	2.35	0.50
39:BD:267:SER:HA	39:BD:270:ILE:HD11	1.93	0.50
36:DA:1946:U:H2'	36:DA:1947:C:H6	1.76	0.50
26:D0:43:THR:O	26:D0:43:THR:HG23	2.11	0.50
36:BA:1052:C:P	36:BA:1052:C:O4'	2.69	0.50
36:BA:1107:G:OP1	44:BJ:59:UNK:N	2.45	0.50
2:AB:8:LYS:HB2	2:AB:9:GLU:OE1	2.11	0.50
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.41	0.50
51:DT:83:ILE:CG1	51:DT:84:GLN:N	2.73	0.50
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.27	0.50
20:CT:86:ARG:O	20:CT:90:GLN:HG3	2.12	0.50
43:BH:54:ARG:HH11	43:BH:54:ARG:HG2	1.76	0.50
36:DA:1188:U:C5'	53:DV:79:VAL:HG12	2.42	0.50
4:AD:25:ARG:HH12	4:AD:30:LYS:HD2	1.76	0.50
25:AY:247:ARG:NH1	25:AY:247:ARG:HG3	2.26	0.50
39:DD:261:LYS:NZ	39:DD:263:ARG:NH2	2.59	0.50
36:DA:653:A:H5'	36:DA:654:A:OP2	2.11	0.50
36:BA:653:A:H5'	36:BA:654:A:OP2	2.11	0.50
19:AS:43:GLU:O	19:AS:45:VAL:HG13	2.11	0.50
26:B0:20:ARG:CG	26:B0:20:ARG:HH11	2.25	0.50
25:AY:416:LYS:CD	25:AY:417:THR:N	2.71	0.50
4:AD:161:ASN:O	4:AD:165:MET:HG2	2.12	0.50
40:DE:23:VAL:CG1	40:DE:173:VAL:HG21	2.42	0.50
57:DZ:125:LEU:HD23	57:DZ:164:ALA:O	2.11	0.50
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.75	0.50
50:DS:51:ALA:HB3	50:DS:73:LEU:HD12	1.93	0.50
47:DP:67:MET:O	47:DP:68:GLN:HG3	2.12	0.50
25:AY:336:THR:HB	25:AY:339:SER:OG	2.12	0.50
49:BR:53:HIS:O	49:BR:56:LYS:HB2	2.11	0.50
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.26	0.50
49:DR:94:TYR:HD1	49:DR:94:TYR:H	1.54	0.50
57:DZ:155:LEU:HD23	57:DZ:155:LEU:N	2.26	0.50
29:D3:44:ARG:O	29:D3:45:GLY:C	2.50	0.50
1:CA:1314:C:OP2	19:CS:6:LYS:HD3	2.12	0.50
37:DB:36:C:H2'	37:DB:37:C:C6	2.46	0.50
2:CB:162:ILE:HG22	2:CB:182:ILE:HG22	1.94	0.50
36:BA:1472:A:H2'	36:BA:1473:G:C8	2.46	0.50
46:BO:119:PRO:O	46:BO:120:GLU:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:48:LEU:HD23	38:DC:209:PHE:CZ	2.47	0.50
36:DA:2428:G:H4'	36:DA:2429:G:O5'	2.11	0.50
1:CA:812:C:O2'	1:CA:813:U:P	2.70	0.50
27:D1:56:GLN:HE22	27:D1:87:PRO:HB3	1.77	0.50
48:BQ:79:LEU:HD23	48:BQ:80:GLU:H	1.76	0.50
42:DG:9:ARG:O	42:DG:13:GLU:HG2	2.11	0.50
1:CA:841:U:H3'	1:CA:848:C:C5'	2.42	0.50
1:AA:841:U:H3'	1:AA:848:C:C5'	2.41	0.50
6:CF:15:ASP:C	6:CF:17:SER:N	2.65	0.50
36:BA:2553:G:H2'	36:BA:2554:U:C4'	2.42	0.50
16:AP:60:LEU:HD21	16:AP:66:PRO:HD3	1.93	0.50
14:CN:47:LEU:O	14:CN:50:LYS:N	2.45	0.50
1:AA:1465:C:C2'	1:AA:1466:C:H5'	2.42	0.50
1:AA:1065:U:O2'	1:AA:1066:C:P	2.69	0.50
8:AH:65:TYR:HA	8:AH:79:VAL:HG23	1.93	0.50
23:AW:18:G:C6	23:AW:57:A:N6	2.80	0.50
36:BA:682:G:H2'	36:BA:683:C:H6	1.75	0.50
36:DA:2039:C:H2'	36:DA:2040:C:H6	1.77	0.50
38:BC:149:ASN:HD22	38:BC:149:ASN:N	2.10	0.50
38:DC:225:ILE:C	38:DC:225:ILE:HD12	2.32	0.50
4:AD:58:LEU:HD23	4:AD:58:LEU:C	2.32	0.50
52:BU:70:ARG:NH2	52:BU:75:ASN:HB2	2.27	0.50
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.12	0.50
1:CA:977:A:H2'	1:CA:978:A:H5'	1.94	0.50
42:DG:124:SER:HB3	42:DG:131:TYR:CE1	2.46	0.50
25:CY:90:PHE:HE2	59:CY:701:FUA:C9	2.23	0.50
43:BH:169:VAL:HG13	43:BH:170:ARG:N	2.27	0.50
56:BY:23:ARG:O	56:BY:24:VAL:O	2.30	0.50
56:BY:7:VAL:HB	56:BY:8:LYS:CE	2.42	0.50
52:DU:95:LEU:CD1	53:DV:11:GLN:HG3	2.42	0.50
52:DU:95:LEU:HD12	53:DV:11:GLN:NE2	2.22	0.50
25:CY:213:HIS:O	25:CY:217:VAL:HG23	2.12	0.50
36:DA:2882:A:H5''	49:DR:98:LEU:HD21	1.92	0.50
38:DC:28:ARG:CG	38:DC:28:ARG:NH1	2.65	0.50
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.94	0.50
39:BD:35:LYS:HZ1	39:BD:36:PRO:HD3	1.76	0.50
36:BA:1495:A:H2'	36:BA:1496:A:C2	2.47	0.50
51:BT:24:PRO:HA	51:BT:49:VAL:HG13	1.94	0.50
39:DD:35:LYS:O	39:DD:37:LEU:HB2	2.11	0.50
26:B0:26:TYR:O	26:B0:29:GLN:HB2	2.12	0.50
36:BA:1814:G:C4'	39:BD:51:VAL:HG21	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:61:G:H1	36:DA:94:C:H42	1.60	0.50
34:B8:52:LYS:HE2	36:BA:834:C:H4'	1.93	0.50
25:CY:530:VAL:CG2	25:CY:531:GLY:H	2.14	0.50
36:DA:1814:G:C4'	39:DD:51:VAL:HG21	2.41	0.50
45:DN:99:LEU:HD12	45:DN:122:VAL:HG21	1.93	0.50
17:AQ:65:ILE:O	17:AQ:66:SER:HB3	2.12	0.50
28:D2:69:ARG:CG	28:D2:70:GLN:H	2.24	0.50
36:DA:109:G:O2'	36:DA:110:G:H5'	2.11	0.50
36:BA:1656:C:H2'	36:BA:1657:C:C6	2.46	0.50
36:DA:807:U:H2'	36:DA:808:G:C8	2.47	0.50
45:DN:126:PRO:O	45:DN:127:ASP:CB	2.57	0.50
45:DN:55:VAL:HG22	45:DN:56:ASN:H	1.76	0.50
36:DA:2531:A:H4'	43:DH:157:TYR:CD2	2.46	0.50
1:CA:521:G:O2'	1:CA:522:C:H5'	2.12	0.50
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.12	0.50
48:BQ:59:ARG:HG3	48:BQ:59:ARG:HH11	1.77	0.50
22:CV:3:C:C2	22:CV:71:G:N2	2.79	0.50
1:AA:1239:A:H62	1:AA:1299:A:N6	2.10	0.50
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.23	0.50
48:DQ:59:ARG:HG3	48:DQ:59:ARG:HH11	1.77	0.50
36:BA:2741:A:H2'	36:BA:2742:C:O4'	2.12	0.50
28:B2:52:ASP:O	28:B2:56:GLN:HG3	2.12	0.50
1:CA:1294:G:C2'	1:CA:1295:G:H5'	2.42	0.50
4:AD:162:LEU:HD13	4:AD:181:MET:HG2	1.94	0.50
2:CB:207:ALA:O	2:CB:210:SER:N	2.45	0.50
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.12	0.50
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.94	0.50
36:BA:847:U:OP2	36:BA:928:G:O6	2.30	0.50
36:DA:2161:C:O2'	36:DA:2162:G:H5'	2.12	0.50
36:BA:1638:C:H5''	36:BA:2710:C:O2'	2.12	0.50
36:BA:1049:C:H2'	36:BA:1050:A:C8	2.45	0.50
5:AE:33:VAL:HG12	5:AE:112:LEU:HD12	1.94	0.50
57:DZ:127:LYS:HE2	57:DZ:162:GLU:OE2	2.11	0.50
42:DG:181:ARG:HH11	42:DG:181:ARG:CG	2.25	0.50
36:DA:2607:G:C6	36:DA:2608:G:C6	2.99	0.50
39:DD:28:GLU:HB2	39:DD:29:PRO:HD3	1.92	0.50
57:DZ:82:ARG:HG2	57:DZ:82:ARG:HH11	1.77	0.50
32:B6:33:LYS:HG2	32:B6:34:LEU:N	2.27	0.50
36:BA:1336:A:H2'	36:BA:1337:G:C8	2.47	0.50
1:CA:861:G:O2'	1:CA:862:C:H5'	2.12	0.50
30:B4:39:CYS:HG	30:B4:42:PHE:HD2	1.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:444:C:H2'	36:DA:445:C:H6	1.76	0.50
3:AC:150:LYS:HB2	3:AC:169:ALA:CB	2.42	0.50
57:BZ:185:GLU:O	57:BZ:186:GLU:C	2.50	0.50
10:AJ:56:HIS:O	10:AJ:58:ASP:O	2.30	0.50
19:CS:27:GLU:O	19:CS:28:LYS:O	2.30	0.50
6:AF:38:GLU:O	6:AF:39:LYS:O	2.30	0.50
21:CU:6:ARG:NH2	21:CU:15:ARG:NH2	2.60	0.50
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.32	0.50
25:AY:292:THR:HG23	25:AY:297:GLU:H	1.77	0.50
36:BA:1694:C:O4'	36:BA:1695:G:C2	2.65	0.50
24:CX:13:A:H2'	24:CX:14:U:O4'	2.12	0.50
36:DA:769:G:H5'	36:DA:1379:A:N6	2.27	0.50
25:AY:100:VAL:HG22	25:AY:374:LEU:HD21	1.94	0.50
1:AA:975:A:H5'	1:AA:975:A:C8	2.47	0.50
45:BN:4:TYR:CD1	45:BN:4:TYR:N	2.79	0.50
30:B4:26:SER:HB2	42:BG:143:GLU:OE2	2.11	0.50
36:BA:272(G):C:H42	36:BA:363(C):G:H1	1.59	0.50
31:D5:56:LYS:O	31:D5:57:VAL:O	2.30	0.50
36:DA:2722:G:H2'	36:DA:2723:C:H6	1.77	0.50
39:DD:35:LYS:HG2	39:DD:62:TYR:C	2.32	0.50
43:BH:153:LYS:CD	43:BH:154:PRO:HD2	2.34	0.50
13:CM:15:VAL:HG12	13:CM:45:VAL:CG2	2.37	0.50
36:DA:833:U:O2	47:DP:55:ARG:NH2	2.44	0.50
36:BA:2787:C:C1'	40:BE:61:ARG:HD3	2.40	0.50
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.56	0.50
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.41	0.50
8:AH:104:ARG:CZ	8:AH:138:TRP:CZ3	2.95	0.50
1:CA:1151:A:O2'	1:CA:1152:A:H8	1.94	0.50
47:DP:41:ARG:CB	47:DP:41:ARG:NH1	2.74	0.50
45:DN:125:GLY:CA	45:DN:126:PRO:O	2.60	0.50
36:DA:2531:A:OP1	43:DH:177:GLY:C	2.50	0.50
2:CB:12:GLU:CA	2:CB:16:HIS:ND1	2.75	0.50
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.41	0.50
51:BT:11:GLU:C	51:BT:13:ARG:H	2.15	0.50
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.77	0.50
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.46	0.50
51:BT:83:ILE:HG13	51:BT:84:GLN:HG2	1.94	0.50
52:DU:52:ARG:O	52:DU:55:ARG:HG2	2.11	0.50
39:DD:205:VAL:O	39:DD:205:VAL:HG12	2.11	0.50
25:CY:271:LEU:O	25:CY:275:ALA:HB2	2.11	0.50
1:CA:1101:A:H4'	1:CA:1102:A:C4'	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.27	0.50
43:BH:20:ALA:HB1	43:BH:21:PRO:HD2	1.94	0.50
36:BA:2464:C:O2'	36:BA:2465:C:O5'	2.29	0.50
40:BE:4:ILE:HD11	40:BE:28:ALA:HB1	1.94	0.50
43:BH:149:ARG:HA	43:BH:162:ILE:CD1	2.42	0.50
4:CD:161:ASN:O	4:CD:165:MET:HG2	2.11	0.50
1:CA:159:G:H2'	1:CA:160:A:H5''	1.93	0.50
36:DA:120:U:O2	36:DA:120:U:C2'	2.60	0.50
6:AF:42:GLU:C	6:AF:44:GLY:H	2.15	0.50
1:CA:514:C:H2'	1:CA:515:G:C8	2.44	0.50
18:AR:32:ARG:CA	18:AR:69:THR:HG21	2.42	0.50
49:DR:92:GLY:HA2	49:DR:94:TYR:CE1	2.47	0.50
3:CC:136:GLN:O	3:CC:137:ALA:C	2.49	0.50
46:BO:4:PRO:HA	46:BO:21:CYS:SG	2.52	0.50
55:BX:57:LEU:O	55:BX:57:LEU:HD22	2.11	0.50
36:DA:2347:C:H2'	36:DA:2348:U:C6	2.47	0.50
37:BB:36:C:H2'	37:BB:37:C:C6	2.46	0.50
36:DA:1128:A:C8	36:DA:2518:A:N6	2.80	0.50
7:AG:140:ASP:HA	7:AG:143:ARG:NH1	2.26	0.50
57:DZ:95:PRO:HA	57:DZ:128:VAL:C	2.32	0.50
36:BA:2512:C:H2'	36:BA:2513:G:O4'	2.12	0.50
37:DB:106:G:H5''	57:DZ:31:ARG:HB3	1.94	0.50
39:BD:176:ARG:CG	39:BD:176:ARG:HH11	2.25	0.50
1:AA:143:A:H2	1:AA:220:G:H1	1.59	0.50
26:D0:78:TYR:N	26:D0:78:TYR:CD1	2.79	0.50
17:AQ:4:LYS:HG3	17:AQ:6:LEU:CD2	2.41	0.50
36:DA:2705:A:H2'	36:DA:2706:G:O4'	2.11	0.50
36:BA:1316:U:H2'	36:BA:1317:A:C8	2.47	0.50
36:DA:1461:G:H2'	36:DA:1462:C:C6	2.46	0.50
41:DF:26:ALA:O	41:DF:27:GLU:HG3	2.12	0.50
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.77	0.50
53:DV:53:GLU:O	53:DV:55:ALA:N	2.45	0.50
44:DJ:148:UNK:C	44:DJ:150:UNK:N	2.73	0.50
27:B1:69:LYS:HD3	36:BA:372:G:O5'	2.11	0.50
36:DA:703:U:O2'	36:DA:704:G:H5'	2.12	0.50
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.26	0.50
52:BU:21:ALA:O	52:BU:22:LYS:C	2.50	0.50
1:CA:1098:C:O2'	1:CA:1099:G:H5'	2.12	0.50
36:BA:291:C:H2'	36:BA:292:C:C6	2.46	0.50
1:CA:652:U:C2	1:CA:752:G:N2	2.80	0.50
36:BA:2836:U:C4	36:BA:2883:A:N6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:5:ASP:O	21:CU:7:ARG:N	2.45	0.50
52:DU:21:ALA:O	52:DU:22:LYS:C	2.50	0.50
36:BA:2576:G:H3'	36:BA:2576:G:N3	2.26	0.50
36:BA:860:U:O4'	36:BA:860:U:O2	2.30	0.50
36:BA:2233:U:H2'	36:BA:2234:G:C8	2.47	0.50
25:CY:438:PHE:C	25:CY:438:PHE:CD1	2.85	0.49
25:AY:402:ILE:O	25:AY:402:ILE:HG22	2.11	0.49
55:DX:12:VAL:CG2	55:DX:13:LEU:N	2.58	0.49
45:BN:3:THR:C	45:BN:4:TYR:CG	2.84	0.49
37:BB:48:A:H2'	37:BB:49:C:C6	2.48	0.49
50:DS:66:ALA:O	50:DS:99:LYS:HD3	2.12	0.49
15:AO:76:GLU:C	15:AO:78:TYR:H	2.15	0.49
45:BN:58:ASP:O	45:BN:60:ILE:HG13	2.12	0.49
3:AC:165:THR:O	3:AC:165:THR:HG23	2.12	0.49
39:DD:139:GLY:H	39:DD:165:ILE:HB	1.77	0.49
36:DA:1204:A:H61	36:DA:1240:U:H2'	1.75	0.49
31:B5:4:HIS:CB	31:B5:5:PRO:CD	2.89	0.49
36:DA:512:G:O2'	36:DA:513:A:H8	1.94	0.49
43:BH:154:PRO:O	43:BH:156:ALA:N	2.45	0.49
41:DF:62:ARG:NH2	41:DF:64:ILE:HA	2.27	0.49
51:BT:59:THR:OG1	51:BT:78:LEU:HD12	2.12	0.49
48:DQ:134:ARG:HG3	48:DQ:134:ARG:HH11	1.77	0.49
4:AD:107:ARG:HH21	4:AD:194:LEU:HD13	1.77	0.49
39:DD:270:ILE:N	39:DD:270:ILE:HD12	2.23	0.49
36:DA:1558:A:O2'	36:DA:1559:G:OP2	2.29	0.49
25:CY:24:GLY:O	25:CY:28:THR:N	2.42	0.49
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.47	0.49
40:BE:9:VAL:CG2	40:BE:10:GLY:N	2.74	0.49
25:AY:145:ASP:CB	25:AY:148:LEU:HD22	2.40	0.49
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.42	0.49
19:CS:13:ASP:O	19:CS:15:LEU:N	2.45	0.49
41:BF:53:THR:HG23	41:BF:55:GLY:N	2.23	0.49
36:DA:92:A:H2'	36:DA:93:G:C8	2.46	0.49
19:AS:21:GLU:CG	19:AS:22:LEU:HD23	2.37	0.49
38:BC:104:ILE:CG2	38:BC:131:ILE:HG21	2.42	0.49
4:CD:100:ARG:HB3	4:CD:102:ASP:OD1	2.11	0.49
54:DW:109:GLU:N	54:DW:109:GLU:OE1	2.45	0.49
38:BC:22:THR:HA	38:BC:229:SER:OG	2.12	0.49
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.26	0.49
36:BA:2462:U:H2'	36:BA:2463:C:C6	2.47	0.49
33:D7:11:LYS:HE2	36:DA:686:G:H5''	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:92:GLU:OE2	47:DP:121:LYS:HE2	2.10	0.49
56:DY:88:LYS:N	56:DY:88:LYS:HD2	2.26	0.49
36:DA:1050:A:H2'	36:DA:1051:G:O4'	2.11	0.49
49:DR:53:HIS:O	49:DR:53:HIS:ND1	2.45	0.49
38:DC:176:VAL:HG21	38:DC:190:ILE:CD1	2.42	0.49
18:CR:32:ARG:CA	18:CR:69:THR:HG21	2.40	0.49
25:AY:679:VAL:CG2	25:AY:684:GLN:NE2	2.75	0.49
36:BA:492:A:C2'	36:BA:493:G:H5'	2.41	0.49
19:CS:6:LYS:O	19:CS:7:LYS:HE3	2.12	0.49
36:BA:2115:G:H3'	36:BA:2116:G:C5'	2.42	0.49
57:DZ:79:ARG:O	57:DZ:80:ARG:CB	2.60	0.49
55:BX:71:GLY:C	55:BX:72:LYS:HG3	2.31	0.49
1:CA:529:G:O6	12:CL:49:ASN:HA	2.11	0.49
40:BE:167:VAL:HG13	40:BE:170:LEU:HD11	1.94	0.49
39:DD:28:GLU:CD	39:DD:28:GLU:N	2.65	0.49
39:BD:28:GLU:CD	39:BD:28:GLU:N	2.66	0.49
6:CF:22:GLU:C	6:CF:24:GLU:N	2.65	0.49
40:DE:101:ARG:HH11	40:DE:169:ASN:ND2	2.09	0.49
42:DG:32:PRO:CB	42:DG:163:ALA:HB2	2.42	0.49
36:BA:444:C:H2'	36:BA:445:C:H6	1.77	0.49
1:AA:723:U:H5'	1:AA:724:G:OP2	2.12	0.49
13:AM:17:VAL:O	13:AM:20:THR:HB	2.11	0.49
55:DX:59:VAL:O	55:DX:59:VAL:HG12	2.12	0.49
36:DA:1573:G:H2'	36:DA:1574:C:H5'	1.93	0.49
36:BA:1207:C:H2'	36:BA:1208:C:H6	1.77	0.49
1:AA:882:C:O2'	1:AA:883:C:H5'	2.12	0.49
36:BA:63:U:H4'	36:BA:63:U:OP1	2.12	0.49
42:DG:39:ILE:CG1	42:DG:92:VAL:HG23	2.37	0.49
57:DZ:13:GLU:HA	57:DZ:13:GLU:OE1	2.12	0.49
25:CY:289:ILE:HB	25:CY:301:ILE:HG12	1.94	0.49
25:CY:289:ILE:HB	25:CY:301:ILE:CG1	2.41	0.49
25:CY:456:GLU:O	25:CY:460:GLU:HB2	2.11	0.49
25:AY:21:ILE:HD12	25:AY:88:VAL:CG1	2.41	0.49
36:BA:2658:C:H2'	36:BA:2659:G:H5'	1.94	0.49
43:BH:169:VAL:HG22	43:BH:170:ARG:N	2.20	0.49
1:CA:980:C:H5	1:CA:981:U:C2	2.29	0.49
25:CY:138:LYS:HE2	60:CY:702:GDP:C4	2.46	0.49
36:BA:185:U:H2'	36:BA:186:G:H8	1.77	0.49
3:AC:76:VAL:HG23	3:AC:77:ILE:N	2.28	0.49
32:B6:10:LEU:N	32:B6:10:LEU:HD23	2.24	0.49
15:AO:74:ASP:C	15:AO:76:GLU:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:47:VAL:O	53:DV:47:VAL:HG23	2.11	0.49
45:BN:26:LEU:C	45:BN:28:THR:H	2.14	0.49
31:D5:40:LYS:HZ1	31:D5:46:CYS:N	2.08	0.49
50:BS:14:VAL:O	50:BS:15:ARG:C	2.50	0.49
51:DT:24:PRO:HA	51:DT:49:VAL:HG13	1.94	0.49
36:BA:674:G:H5''	41:BF:76:GLY:N	2.27	0.49
36:DA:27:G:N2	36:DA:512:G:C2'	2.69	0.49
50:DS:106:ARG:HD2	50:DS:106:ARG:C	2.32	0.49
1:AA:265:G:O2'	1:AA:266:G:H5'	2.12	0.49
50:BS:74:ALA:HB3	50:BS:103:GLU:HG3	1.93	0.49
50:BS:106:ARG:O	50:BS:107:GLU:CB	2.59	0.49
25:AY:9:LEU:HD21	25:AY:284:LEU:CB	2.41	0.49
40:DE:68:ALA:HB3	40:DE:69:LYS:HE2	1.93	0.49
36:BA:744:G:OP1	40:BE:132:HIS:HB3	2.12	0.49
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.77	0.49
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	2.12	0.49
13:CM:117:VAL:O	13:CM:118:ALA:O	2.30	0.49
43:DH:169:VAL:C	43:DH:170:ARG:HG3	2.33	0.49
25:AY:149:VAL:C	25:AY:152:THR:HG22	2.33	0.49
7:AG:49:ILE:HG22	7:AG:49:ILE:O	2.11	0.49
40:DE:36:ARG:CG	40:DE:36:ARG:NH1	2.74	0.49
34:B8:61:LEU:N	34:B8:63:PRO:HD2	2.27	0.49
36:DA:1325:G:OP2	36:DA:1616:A:H2'	2.12	0.49
36:BA:654(O):G:H2'	36:BA:654(P):C:C6	2.47	0.49
42:BG:77:ILE:CG2	42:BG:80:PHE:N	2.74	0.49
15:CO:12:ILE:O	15:CO:14:GLU:N	2.44	0.49
16:AP:8:ARG:CB	16:AP:28:ARG:NH1	2.75	0.49
4:AD:159:ARG:O	4:AD:163:GLU:N	2.45	0.49
2:CB:207:ALA:HB3	2:CB:210:SER:HB3	1.93	0.49
57:DZ:97:GLU:HB3	57:DZ:125:LEU:HD11	1.92	0.49
2:AB:207:ALA:C	2:AB:209:ARG:N	2.62	0.49
36:DA:1608:A:C6	36:DA:1611:C:C2	3.00	0.49
36:DA:272(B):G:H2'	36:DA:272(C):G:H8	1.74	0.49
16:AP:9:PHE:CE2	16:AP:18:ARG:NE	2.80	0.49
36:DA:1196:C:H2'	36:DA:1197:G:O4'	2.12	0.49
15:CO:64:ARG:CG	15:CO:64:ARG:HH11	2.25	0.49
46:BO:12:ASP:C	46:BO:14:THR:H	2.16	0.49
41:BF:4:VAL:HA	41:BF:19:GLU:HB3	1.93	0.49
41:BF:107:LYS:HD2	41:BF:205:ARG:O	2.12	0.49
56:DY:97:ARG:NH1	56:DY:97:ARG:HG3	2.27	0.49
56:DY:56:PRO:O	56:DY:57:GLN:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:117:LEU:HA	57:BZ:174:VAL:HG22	1.93	0.49
37:DB:115:G:H2'	37:DB:116:G:H8	1.77	0.49
36:BA:302:C:H2'	36:BA:303:U:H6	1.77	0.49
1:CA:8:A:C6	4:CD:209:ARG:HB2	2.47	0.49
36:DA:221:A:O2'	36:DA:222:A:OP2	2.30	0.49
36:DA:515:A:C2	36:DA:1261:C:H1'	2.46	0.49
36:DA:1710:C:H2'	36:DA:1711:C:C6	2.47	0.49
1:AA:861:G:O2'	1:AA:862:C:H5'	2.12	0.49
36:BA:824:A:H1'	36:BA:2358:G:N7	2.27	0.49
25:AY:357:ARG:HG3	25:AY:357:ARG:NH1	2.27	0.49
1:AA:1466:C:H2'	1:AA:1467:G:O4'	2.12	0.49
1:AA:189(D):C:H1'	1:AA:189(H):G:N2	2.27	0.49
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.12	0.49
36:DA:2553:G:H2'	36:DA:2554:U:O4'	2.12	0.49
1:AA:920:U:H1'	1:AA:1080:A:C2	2.46	0.49
29:D3:11:SER:HB3	36:DA:988:A:P	2.52	0.49
36:DA:2769:C:O2'	36:DA:2770:G:H5'	2.12	0.49
38:BC:225:ILE:C	38:BC:225:ILE:HD12	2.31	0.49
36:BA:1344:G:H4'	36:BA:1384:A:C5	2.47	0.49
36:BA:1353:A:H2'	36:BA:1354:A:C8	2.46	0.49
41:BF:40:GLN:OE1	41:BF:184:TYR:HB2	2.12	0.49
25:AY:313:ALA:CA	25:AY:328:ILE:HG22	2.42	0.49
23:CW:38:A:O5'	23:CW:38:A:H8	1.94	0.49
25:CY:138:LYS:HG2	60:CY:702:GDP:C5	2.46	0.49
25:CY:152:THR:HG23	25:CY:153:MET:N	2.27	0.49
25:CY:193:GLY:O	25:CY:196:ILE:HG23	2.12	0.49
25:CY:211:GLU:HB2	25:CY:215:LYS:NZ	2.26	0.49
25:CY:510:VAL:HG11	25:CY:567:LEU:HD13	1.93	0.49
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.94	0.49
41:DF:126:VAL:HG23	41:DF:127:GLU:N	2.28	0.49
57:DZ:10:ARG:NH2	57:DZ:26:GLY:N	2.59	0.49
41:BF:10:PRO:HB3	41:BF:127:GLU:HG2	1.94	0.49
56:DY:13:VAL:O	56:DY:24:VAL:HG13	2.12	0.49
36:DA:211:A:C3'	36:DA:212:G:H5''	2.42	0.49
36:DA:1599:C:OP2	55:DX:36:LYS:HD2	2.13	0.49
45:BN:24:GLY:O	45:BN:28:THR:HB	2.11	0.49
31:D5:56:LYS:CG	31:D5:57:VAL:N	2.71	0.49
32:B6:48:VAL:O	32:B6:49:HIS:HB2	2.11	0.49
47:DP:106:LEU:HD11	47:DP:112:LEU:CD2	2.43	0.49
36:BA:1493:C:O2	36:BA:1493:C:H2'	2.12	0.49
36:DA:2820:A:O2'	36:DA:2821:A:OP1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:31:SER:CB	52:DU:34:LYS:HB2	2.36	0.49
49:BR:63:ARG:NH2	49:BR:77:ARG:HG2	2.27	0.49
27:B1:58:ILE:HD11	27:B1:91:LYS:CB	2.42	0.49
36:BA:195:A:H5''	36:BA:196:A:OP2	2.11	0.49
39:DD:24:ILE:HG12	39:DD:25:THR:N	2.27	0.49
36:BA:142:A:N6	36:BA:1596:A:H5'	2.27	0.49
57:BZ:29:TYR:OH	57:BZ:87:ASP:HB3	2.11	0.49
8:CH:82:HIS:CD2	8:CH:138:TRP:NE1	2.80	0.49
23:AW:31:G:C5	23:AW:32:C:C4	3.00	0.49
9:CI:50:LEU:HD23	9:CI:85:LEU:CD2	2.41	0.49
38:BC:155:ARG:O	38:BC:159:ALA:HB2	2.12	0.49
42:BG:56:ALA:CB	42:BG:153:ARG:NH2	2.75	0.49
42:BG:73:ALA:H	42:BG:87:PRO:CD	2.25	0.49
16:AP:5:ARG:HE	16:AP:22:THR:CG2	2.24	0.49
36:BA:365:C:H6	36:BA:365:C:C5'	2.18	0.49
20:AT:93:GLU:OE1	20:AT:93:GLU:N	2.45	0.49
54:DW:4:LYS:HG2	54:DW:5:ALA:N	2.28	0.49
26:B0:11:ARG:C	26:B0:12:ASN:HD22	2.15	0.49
36:BA:2481:G:O2'	36:BA:2482:G:P	2.70	0.49
39:BD:196:VAL:HG12	39:BD:196:VAL:O	2.11	0.49
12:AL:57:LYS:HG3	12:AL:67:THR:CG2	2.39	0.49
39:DD:11:PRO:C	39:DD:13:ARG:H	2.15	0.49
36:BA:1644:C:C2'	36:BA:1644:C:O2	2.57	0.49
36:DA:893:C:H2'	36:DA:894:C:H6	1.78	0.49
56:DY:4:LYS:HD2	56:DY:32:PRO:HG3	1.95	0.49
40:BE:184:VAL:O	40:BE:186:GLY:N	2.42	0.49
51:DT:38:ASN:ND2	51:DT:40:THR:OG1	2.46	0.49
49:BR:78:LYS:O	49:BR:83:ILE:HG12	2.12	0.49
33:B7:8:ASN:HD22	33:B7:8:ASN:C	2.13	0.49
43:BH:28:GLY:HA3	43:BH:79:VAL:HB	1.94	0.49
31:D5:58:LEU:C	31:D5:58:LEU:HD13	2.32	0.49
1:CA:349:A:C2'	1:CA:350:G:H5''	2.41	0.49
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.93	0.49
36:DA:2794:C:N4	36:DA:2801(A):A:H61	2.09	0.49
38:DC:22:THR:HA	38:DC:229:SER:OG	2.12	0.49
39:BD:226:MET:HB3	39:BD:230:ASP:CB	2.41	0.49
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.94	0.49
41:DF:18:ARG:CZ	41:DF:199:TRP:CZ3	2.95	0.49
49:DR:63:ARG:HA	49:DR:80:PHE:CZ	2.47	0.49
1:AA:745:C:H2'	1:AA:746:A:H8	1.75	0.49
55:BX:26:TYR:OH	55:BX:88:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1472:A:H2'	36:DA:1473:G:C8	2.47	0.49
36:BA:1335:U:H2'	36:BA:1336:A:H8	1.76	0.49
36:BA:52:A:O2'	36:BA:53:A:H5'	2.12	0.49
38:DC:29:LEU:HD23	38:DC:29:LEU:C	2.32	0.49
3:CC:54:ARG:HH11	3:CC:54:ARG:HG2	1.77	0.49
36:BA:2511:U:O3'	40:BE:123:ALA:HB3	2.12	0.49
36:BA:1917:U:C2'	36:BA:1918:A:H5'	2.42	0.49
36:BA:2495:G:O2'	36:BA:2496:C:H5'	2.12	0.49
21:CU:24:ARG:HG2	21:CU:24:ARG:HH11	1.77	0.49
36:DA:551:G:H2'	36:DA:552:G:H5'	1.94	0.49
1:CA:294:U:H2'	1:CA:295:C:C6	2.47	0.49
1:CA:106:C:C2'	1:CA:107:G:H5'	2.42	0.49
36:BA:1310:G:C2'	36:BA:1311:G:H5'	2.42	0.49
3:AC:111:LEU:HD21	3:AC:144:SER:HB2	1.95	0.49
36:BA:333:G:N3	36:BA:333:G:H2'	2.27	0.49
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.76	0.49
25:CY:170:ARG:HH22	25:CY:205:TYR:HE1	1.60	0.49
36:BA:211:A:C3'	36:BA:212:G:H5''	2.42	0.49
36:DA:2733:A:H2'	36:DA:2734:A:O4'	2.13	0.49
25:AY:468:ARG:CB	25:AY:468:ARG:HH11	2.04	0.49
42:BG:34:LEU:N	42:BG:34:LEU:HD12	2.27	0.49
25:AY:555:LEU:CD1	25:AY:601:ILE:HG13	2.41	0.49
45:DN:4:TYR:CD1	45:DN:4:TYR:N	2.80	0.49
9:CI:114:TYR:HE2	10:CJ:60:ARG:N	2.07	0.49
25:CY:220:ALA:HB2	25:CY:246:ILE:HD11	1.93	0.49
36:DA:1022:G:O2'	36:DA:1023:U:P	2.70	0.49
36:BA:635:C:H2'	36:BA:636:G:O4'	2.12	0.49
1:CA:1442(B):A:C5	51:DT:118:ARG:NE	2.80	0.49
53:BV:62:LEU:N	53:BV:62:LEU:HD22	2.27	0.49
47:BP:46:LYS:HG2	47:BP:52:GLU:CG	2.42	0.49
36:BA:833:U:O2	47:BP:55:ARG:NH2	2.44	0.49
22:AV:3:C:C2'	22:AV:4:C:H5'	2.42	0.49
50:BS:103:GLU:O	50:BS:104:GLY:C	2.51	0.49
48:DQ:134:ARG:HE	57:DZ:122:ARG:NH2	2.10	0.49
2:CB:204:ASN:C	2:CB:204:ASN:ND2	2.59	0.49
5:CE:101:ILE:H	5:CE:101:ILE:HD13	1.76	0.49
27:D1:86:SER:HB2	27:D1:90:ILE:CG1	2.40	0.49
40:DE:77:ILE:HG22	40:DE:78:LEU:N	2.26	0.49
51:DT:79:HIS:O	51:DT:80:SER:HB3	2.13	0.49
47:DP:38:GLN:HG3	47:DP:39:LYS:N	2.24	0.49
36:DA:1542:A:H3'	36:DA:1542:A:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:55:VAL:HG21	45:BN:127:ASP:H	1.77	0.49
45:BN:55:VAL:HG22	45:BN:56:ASN:H	1.76	0.49
18:CR:59:SER:N	18:CR:62:GLU:HB2	2.21	0.49
57:DZ:112:ARG:HH11	57:DZ:112:ARG:HG2	1.77	0.49
39:DD:72:LYS:HE2	39:DD:101:GLU:OE1	2.13	0.49
19:CS:41:VAL:C	19:CS:43:GLU:N	2.64	0.49
43:DH:124:GLU:HB2	43:DH:132:ARG:CG	2.42	0.49
4:AD:17:VAL:HG11	4:AD:197:PRO:HB2	1.93	0.49
36:DA:654(O):G:H2'	36:DA:654(P):C:C6	2.48	0.49
36:DA:2464:C:O2'	36:DA:2465:C:O5'	2.31	0.49
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.77	0.49
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.28	0.49
46:BO:13:ASN:HD21	46:BO:97:ARG:HG2	1.78	0.49
36:DA:1582:C:O2'	36:DA:1583:A:H5'	2.12	0.49
40:BE:23:VAL:CG1	40:BE:173:VAL:HG21	2.41	0.49
1:AA:202:U:H5'	1:AA:203:U:H5	1.76	0.49
36:DA:841:A:H8	36:DA:841:A:H5'	1.78	0.49
36:BA:893:C:H2'	36:BA:894:C:H6	1.75	0.49
37:BB:94:C:H2'	37:BB:95:C:H6	1.77	0.49
2:CB:207:ALA:O	2:CB:208:ILE:C	2.50	0.49
20:CT:42:GLN:CA	20:CT:42:GLN:HE21	2.18	0.49
29:D3:56:VAL:CG1	29:D3:57:GLU:H	2.24	0.49
1:CA:444:C:H42	1:CA:490:G:H1	1.59	0.49
36:BA:207:A:H2'	36:BA:208:C:O4'	2.12	0.49
37:DB:112:U:H2'	37:DB:113:G:C8	2.44	0.49
4:CD:163:GLU:C	4:CD:165:MET:N	2.66	0.49
36:BA:848:G:C2	36:BA:933:A:H1'	2.47	0.49
45:BN:109:LYS:H	45:BN:109:LYS:HE2	1.75	0.49
1:CA:218:C:H5'	1:CA:470:C:N4	2.28	0.49
36:BA:1131:G:H21	45:BN:73:THR:HG21	1.77	0.49
18:AR:72:ARG:O	18:AR:76:LEU:HD22	2.12	0.49
1:CA:866:C:H2'	1:CA:867:G:O4'	2.11	0.49
19:CS:53:ASN:C	19:CS:55:LYS:N	2.66	0.49
37:BB:115:G:O4'	50:BS:47:THR:HB	2.13	0.49
37:DB:44:G:H1'	37:DB:47:C:H41	1.77	0.49
46:DO:105:GLU:O	46:DO:109:LYS:HG3	2.12	0.49
25:CY:494:GLU:HG2	25:CY:495:GLY:N	2.27	0.49
17:AQ:4:LYS:CG	17:AQ:6:LEU:HD21	2.42	0.49
36:BA:1462:C:H4'	36:BA:2703:C:O4'	2.13	0.49
16:CP:74:LEU:CD2	16:CP:79:VAL:HG21	2.41	0.49
36:DA:1847:A:H3'	36:DA:1848:A:C5'	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2860:A:H2'	36:BA:2861:G:H5'	1.94	0.49
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.28	0.49
40:BE:145:LYS:O	40:BE:148:GLY:N	2.45	0.49
36:BA:766:C:O2'	36:BA:767:U:H5'	2.13	0.49
36:BA:345:A:O2'	36:BA:346:A:N7	2.39	0.49
21:AU:24:ARG:HG2	21:AU:24:ARG:HH11	1.77	0.49
38:BC:7:ARG:O	38:BC:11:LEU:HG	2.13	0.49
46:BO:31:LYS:HB3	46:BO:32:TYR:CE1	2.47	0.49
16:CP:60:LEU:HD21	16:CP:66:PRO:HD3	1.95	0.49
25:AY:518:PRO:O	25:AY:520:GLY:N	2.46	0.49
38:DC:7:ARG:O	38:DC:11:LEU:HG	2.12	0.49
39:DD:268:ARG:NH1	39:DD:268:ARG:HB3	2.28	0.49
22:CV:48:C:H2'	22:CV:59:U:H4'	1.94	0.49
1:CA:883:C:O2'	1:CA:884:U:H5'	2.12	0.49
36:BA:1352:U:O2'	36:BA:1353:A:H5'	2.12	0.49
42:DG:139:LEU:CA	42:DG:144:ILE:HD13	2.33	0.49
53:BV:19:LYS:NZ	53:BV:22:VAL:HG13	2.28	0.49
40:DE:37:ARG:HA	40:DE:42:ASP:OD2	2.11	0.49
57:BZ:152:ALA:C	57:BZ:167:PRO:HB2	2.33	0.49
27:D1:46:LEU:CD2	27:D1:46:LEU:H	2.19	0.49
45:DN:3:THR:C	45:DN:4:TYR:CG	2.85	0.49
53:DV:49:THR:HB	53:DV:50:PRO:HD2	1.93	0.49
36:BA:1012:U:H3	45:BN:25:ARG:HE	1.61	0.49
36:DA:1278:A:O3'	49:DR:34:ILE:HG23	2.11	0.49
25:AY:633:GLY:HA3	25:AY:644:ARG:HH11	1.76	0.49
51:BT:50:ILE:HD12	51:BT:50:ILE:N	2.27	0.49
51:DT:28:VAL:CG1	51:DT:46:GLU:HA	2.41	0.49
36:DA:1815:A:H1'	36:DA:1817:G:C8	2.47	0.49
6:CF:68:PRO:HG2	6:CF:71:ARG:HB2	1.93	0.49
36:DA:2787:C:C1'	40:DE:61:ARG:HD3	2.41	0.49
36:BA:811:U:O2	36:BA:1251:C:C6	2.65	0.49
14:AN:15:LYS:O	14:AN:16:PHE:C	2.51	0.49
36:BA:595:C:H42	36:BA:662:G:H1	1.59	0.49
40:BE:34:VAL:HG11	40:BE:78:LEU:CD2	2.42	0.49
3:CC:86:VAL:HG23	3:CC:87:LEU:HD23	1.94	0.49
1:AA:1226:C:H5''	13:AM:103:THR:OG1	2.12	0.49
1:AA:328:C:O2	1:AA:328:C:C2'	2.51	0.49
36:BA:2562:U:H1'	46:BO:23:ARG:NH1	2.18	0.49
1:CA:1191:A:P	3:CC:3:ASN:HD21	2.36	0.49
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.41	0.49
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:79:VAL:HG21	39:BD:111:LEU:HD11	1.94	0.49
26:D0:11:ARG:CB	26:D0:11:ARG:HH11	2.25	0.49
4:CD:19:LEU:CD2	4:CD:21:LEU:HD21	2.43	0.49
43:DH:86:GLU:CB	43:DH:132:ARG:HB3	2.43	0.49
36:BA:864:G:OP2	48:BQ:22:LYS:HE2	2.13	0.49
40:DE:55:ASN:O	40:DE:57:LYS:N	2.39	0.49
36:DA:1614:A:N6	54:DW:93:ALA:HB2	2.22	0.49
40:BE:55:ASN:C	40:BE:57:LYS:H	2.15	0.49
36:DA:1577:C:H2'	36:DA:1578:U:O4'	2.12	0.49
36:DA:893:C:H2'	36:DA:894:C:C6	2.47	0.49
41:BF:89:VAL:CG1	41:BF:90:PHE:H	2.18	0.49
49:BR:117:VAL:CG1	49:BR:118:GLU:N	2.75	0.49
1:CA:1329:A:C2'	1:CA:1330:U:H5'	2.43	0.49
35:D9:29:ASN:H	35:D9:29:ASN:ND2	2.10	0.49
37:BB:87:G:H3'	37:BB:88:C:H5''	1.94	0.49
37:BB:93:G:O2'	37:BB:94:C:H5'	2.12	0.49
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.42	0.49
56:BY:88:LYS:O	56:BY:90:LEU:HD23	2.13	0.49
25:CY:613:PRO:HG2	25:CY:666:ARG:HH21	1.75	0.49
28:B2:35:LEU:HD23	28:B2:35:LEU:C	2.32	0.49
25:CY:339:SER:O	25:CY:351:ARG:HD2	2.12	0.49
36:DA:1666:G:C2'	36:DA:1667:G:H5'	2.42	0.49
12:CL:7:ILE:HG22	12:CL:8:ASN:N	2.27	0.49
36:BA:64:A:H2'	36:BA:65:C:O4'	2.12	0.49
48:BQ:135:ASP:CG	57:BZ:49:ARG:NH1	2.66	0.49
36:BA:2347:C:H2'	36:BA:2348:U:C6	2.48	0.49
55:DX:71:GLY:C	55:DX:72:LYS:HG3	2.31	0.49
57:BZ:114:GLY:O	57:BZ:146:ILE:HD12	2.12	0.49
36:BA:1326:U:H2'	36:BA:1327:C:H6	1.77	0.49
46:DO:107:ARG:HA	46:DO:112:MET:HE2	1.94	0.49
2:AB:102:LEU:HG	2:AB:158:LEU:CD2	2.41	0.49
28:D2:27:GLU:O	28:D2:30:ARG:N	2.45	0.49
1:AA:321:A:C2	1:AA:333:G:C2	3.00	0.49
30:D4:39:CYS:SG	30:D4:42:PHE:CE2	3.01	0.49
1:CA:1163:C:H2'	1:CA:1164:G:C8	2.48	0.49
36:BA:773:U:H5'	39:BD:47:GLY:HA2	1.93	0.49
8:AH:99:GLU:O	8:AH:100:ILE:C	2.48	0.49
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.79	0.49
2:CB:151:GLY:O	2:CB:152:PHE:C	2.50	0.49
25:AY:319:ASP:OD2	25:AY:322:VAL:HG22	2.12	0.49
8:CH:54:ASP:O	8:CH:56:LYS:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:24:ALA:HB2	27:B1:32:LYS:HE3	1.94	0.49
36:BA:2697:G:C2	36:BA:2711:A:C2	3.01	0.49
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.12	0.49
36:DA:860:U:O2	36:DA:860:U:O4'	2.29	0.49
15:CO:49:ASP:OD1	15:CO:49:ASP:O	2.31	0.49
25:CY:573:HIS:CD2	25:CY:575:VAL:H	2.30	0.49
42:DG:60:LEU:O	42:DG:63:ILE:CG1	2.56	0.49
25:CY:125:ALA:C	25:CY:127:LYS:N	2.65	0.49
25:CY:139:MET:HA	25:CY:144:ALA:HB1	1.95	0.49
2:AB:163:PHE:CD1	2:AB:185:ILE:HG13	2.47	0.49
25:CY:491:VAL:HG21	25:CY:597:GLY:HA2	1.94	0.49
45:BN:1:MET:HE1	45:BN:3:THR:OG1	2.12	0.49
53:BV:47:VAL:O	53:BV:47:VAL:HG23	2.13	0.49
29:D3:14:GLY:H	29:D3:20:LYS:HZ1	1.58	0.49
29:B3:6:VAL:HB	29:B3:54:VAL:CG1	2.43	0.49
34:D8:33:ASN:CA	34:D8:36:LYS:HD2	2.42	0.49
41:BF:8:GLN:HG2	41:BF:126:VAL:HG12	1.93	0.49
31:D5:40:LYS:HE2	31:D5:46:CYS:CB	2.41	0.49
36:DA:272(H):C:C6	36:DA:272(H):C:H5'	2.46	0.49
36:DA:2262:U:O2'	36:DA:2263:C:H5''	2.12	0.49
28:B2:41:ILE:HG13	28:B2:41:ILE:O	2.12	0.49
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.45	0.49
49:DR:2:ARG:HD2	49:DR:5:LYS:HE2	1.93	0.49
25:CY:627:ARG:NH2	25:CY:655:TYR:HA	2.28	0.49
36:BA:1453:U:H2'	36:BA:1455:G:N7	2.27	0.49
51:BT:28:VAL:CG1	51:BT:46:GLU:HA	2.40	0.49
51:DT:70:VAL:HG12	51:DT:71:GLY:O	2.12	0.49
36:DA:2205:C:O2	36:DA:2205:C:H2'	2.12	0.49
25:AY:411:VAL:CG1	25:AY:412:ALA:H	2.26	0.49
1:CA:80:G:C6	1:CA:90:U:H5'	2.48	0.49
28:D2:48:HIS:CG	28:D2:49:LYS:H	2.29	0.49
50:DS:85:VAL:C	50:DS:106:ARG:HG2	2.32	0.49
25:AY:510:VAL:HG12	25:AY:511:LYS:H	1.77	0.49
45:DN:132:ALA:O	45:DN:133:GLN:CB	2.59	0.49
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.94	0.49
36:BA:2809:A:H2'	36:BA:2810:A:C8	2.47	0.49
10:CJ:3:LYS:HZ3	10:CJ:77:PRO:HD2	1.76	0.49
25:CY:5:VAL:CG1	25:CY:6:GLU:H	2.14	0.49
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.94	0.49
13:AM:6:GLY:C	13:AM:8:GLU:N	2.66	0.49
2:CB:17:PHE:CG	2:CB:18:GLY:N	2.79	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:132:HIS:CD2	40:BE:135:HIS:NE2	2.81	0.49
40:BE:68:ALA:HB3	40:BE:69:LYS:HE2	1.93	0.49
25:CY:178:ILE:HD11	25:CY:185:ALA:HB2	1.94	0.49
36:BA:481:G:P	56:BY:47:LYS:HD3	2.53	0.49
56:BY:47:LYS:HA	56:BY:60:PHE:CD1	2.48	0.49
45:BN:126:PRO:O	45:BN:127:ASP:CB	2.59	0.49
36:BA:2304:G:O2'	42:BG:156:ASP:HB3	2.13	0.49
13:CM:118:ALA:HB3	13:CM:120:LYS:HE3	1.95	0.49
36:DA:917:A:O2'	36:DA:918:A:H5'	2.13	0.49
36:BA:1528:A:H2'	36:BA:1528:A:N3	2.28	0.49
1:AA:1198:G:H2'	1:AA:1199:U:O4'	2.12	0.49
25:CY:33:LEU:HD12	25:CY:33:LEU:N	2.27	0.49
39:DD:73:VAL:HG13	39:DD:120:GLY:HA2	1.94	0.49
36:BA:406:G:H8	36:BA:406:G:OP2	1.94	0.49
39:DD:112:GLN:O	39:DD:115:GLN:HB2	2.12	0.49
54:DW:50:VAL:O	54:DW:50:VAL:HG22	2.12	0.49
26:D0:11:ARG:C	26:D0:12:ASN:HD22	2.16	0.49
9:CI:95:LYS:HZ2	9:CI:96:LEU:HD13	1.77	0.49
13:AM:78:ILE:HA	13:AM:81:LEU:HD23	1.95	0.49
40:DE:55:ASN:HD21	40:DE:75:VAL:HG22	1.78	0.49
57:BZ:81:ARG:NH1	57:BZ:81:ARG:CB	2.76	0.49
36:DA:2747:G:O2'	43:DH:67:LEU:HD12	2.12	0.49
36:BA:1577:C:H2'	36:BA:1578:U:O4'	2.13	0.49
36:DA:688:U:C4'	36:DA:1780:A:C2	2.96	0.49
46:BO:13:ASN:ND2	46:BO:97:ARG:CG	2.75	0.49
36:BA:2147:G:H2'	36:BA:2148:G:C5'	2.42	0.49
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.27	0.49
25:AY:580:MET:CE	25:AY:584:ILE:HG12	2.43	0.49
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.13	0.49
48:BQ:14:ARG:HG2	48:BQ:14:ARG:HH11	1.78	0.49
43:DH:20:ALA:HB1	43:DH:21:PRO:HD2	1.94	0.49
1:CA:1293:G:O2'	1:CA:1294:G:H5'	2.13	0.49
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.25	0.49
1:AA:1294:G:C2'	1:AA:1295:G:H5'	2.42	0.49
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.47	0.49
6:CF:86:ARG:O	6:CF:87:ARG:HG2	2.13	0.49
36:BA:783:A:C8	36:BA:784:A:H4'	2.45	0.49
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.42	0.49
41:DF:4:VAL:HA	41:DF:19:GLU:HB3	1.94	0.49
1:CA:867:G:O2'	1:CA:868:C:H5'	2.12	0.49
18:CR:72:ARG:O	18:CR:76:LEU:HD22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1638:C:O2'	36:DA:1639:U:H5'	2.11	0.49
36:BA:1360:A:H5'	36:BA:1361:G:OP2	2.12	0.49
10:AJ:47:PHE:CE2	14:AN:37:PHE:HE1	2.30	0.49
5:CE:34:VAL:CG1	5:CE:62:ALA:HB1	2.43	0.49
26:B0:37:LEU:N	26:B0:59:LEU:O	2.41	0.49
1:CA:332:G:O2'	1:CA:333:G:H5'	2.12	0.49
38:DC:74:ARG:HH11	38:DC:74:ARG:HG2	1.77	0.49
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.42	0.49
36:BA:1297:C:H2'	36:BA:1298:C:H6	1.76	0.49
38:DC:65:LEU:HD11	38:DC:162:ILE:HD13	1.94	0.49
1:CA:674:G:H4'	18:CR:81:PHE:CD2	2.48	0.49
1:CA:824:C:H1'	8:CH:1:MET:HE2	1.94	0.49
44:DJ:9:UNK:O	44:DJ:10:UNK:C	2.60	0.49
1:CA:1413:A:H2'	1:CA:1414:U:O4'	2.13	0.49
34:D8:20:GLY:O	34:D8:57:ARG:HD3	2.12	0.49
1:AA:860:A:H2'	1:AA:861:G:O4'	2.12	0.49
49:BR:18:LEU:HD23	49:BR:19:ALA:N	2.27	0.49
36:DA:312:G:H2'	36:DA:313:C:O4'	2.12	0.49
36:BA:1358:G:O2'	36:BA:1359:A:H5''	2.13	0.49
36:DA:1856:G:H1	36:DA:1886:C:H42	1.60	0.49
36:DA:1010:A:H1'	36:DA:1153:C:H1'	1.94	0.49
36:DA:333:G:N3	36:DA:333:G:H2'	2.26	0.49
25:AY:367:GLU:O	25:AY:368:GLU:HB3	2.12	0.49
21:AU:3:LYS:HB3	21:AU:14:TRP:CD1	2.47	0.49
36:DA:2488:A:H2'	36:DA:2489:G:C8	2.48	0.49
23:AW:65:C:H2'	23:AW:66:C:C6	2.48	0.49
25:AY:364:GLU:HG2	25:AY:366:VAL:HG13	1.93	0.49
36:DA:1396:U:H2'	36:DA:1396:U:O2	2.13	0.49
48:DQ:58:PHE:HD1	48:DQ:58:PHE:O	1.93	0.49
44:DJ:118:UNK:O	44:DJ:119:UNK:CB	2.61	0.49
12:CL:112:ASP:O	12:CL:114:LYS:HG3	2.13	0.49
23:CW:34:C:O2'	23:CW:35:A:O5'	2.30	0.49
24:AX:13:A:H2'	24:AX:14:U:O4'	2.12	0.49
25:AY:402:ILE:HD12	25:AY:402:ILE:H	1.78	0.49
25:AY:17:ILE:O	25:AY:85:PRO:HG2	2.12	0.49
25:CY:147:TRP:HB2	25:CY:151:ARG:NH2	2.28	0.49
25:CY:509:HIS:CE1	25:CY:570:GLY:HA2	2.46	0.49
36:DA:2308:G:O6	36:DA:2310:A:H2'	2.12	0.49
36:BA:2291:U:O2'	36:BA:2292:C:H5'	2.13	0.49
57:BZ:121:HIS:HB3	57:BZ:171:ILE:HA	1.95	0.49
57:BZ:152:ALA:HB3	57:BZ:154:ASP:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:31:LEU:CD1	29:B3:32:GLN:HG2	2.26	0.49
40:BE:120:TRP:O	40:BE:121:ASN:C	2.51	0.49
49:BR:96:ARG:O	49:BR:114:VAL:HA	2.13	0.49
36:DA:336:C:O3'	56:DY:7:VAL:HG22	2.11	0.49
56:DY:7:VAL:HB	56:DY:8:LYS:CE	2.43	0.49
2:CB:223:ILE:HG23	2:CB:226:ARG:CZ	2.43	0.49
31:D5:3:LYS:HE2	36:DA:2613:U:H2'	1.94	0.49
12:AL:41:ARG:CG	12:AL:42:THR:N	2.71	0.49
47:DP:95:VAL:HA	47:DP:99:LEU:CD2	2.41	0.49
25:AY:217:VAL:HG22	25:AY:242:LEU:HD21	1.93	0.49
25:AY:136:ALA:HB3	25:AY:260:LEU:HB3	1.94	0.49
27:B1:81:LYS:HZ1	36:BA:271(I):G:P	2.35	0.49
41:BF:61:GLY:O	41:BF:62:ARG:C	2.51	0.49
1:CA:1002:G:C8	1:CA:1003:G:N7	2.81	0.49
50:DS:106:ARG:O	50:DS:107:GLU:CB	2.60	0.49
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.12	0.49
17:CQ:69:LYS:C	17:CQ:70:ARG:HD2	2.32	0.49
36:DA:2888:C:H2'	36:DA:2889:C:C6	2.48	0.49
48:DQ:27:VAL:HG23	48:DQ:137:TYR:CD2	2.46	0.49
40:DE:49:LEU:O	40:DE:78:LEU:CB	2.61	0.49
2:AB:17:PHE:CG	2:AB:18:GLY:N	2.81	0.49
9:CI:9:ARG:CB	9:CI:104:ARG:HH12	2.26	0.49
36:DA:366:C:H5'	36:DA:370:G:H5'	1.94	0.49
36:DA:1212:G:O2'	36:DA:1236:G:N2	2.46	0.49
42:BG:47:LYS:HG2	42:BG:81:LYS:HB3	1.95	0.49
39:BD:266:SER:O	39:BD:267:SER:O	2.31	0.49
1:CA:1505:G:H5'	1:CA:1506:U:OP1	2.12	0.49
10:AJ:63:PHE:HB3	14:AN:58:LYS:CA	2.39	0.49
39:BD:179:SER:C	39:BD:181:GLU:H	2.15	0.49
51:DT:83:ILE:HG13	51:DT:84:GLN:HG2	1.93	0.49
36:DA:534:U:O2'	52:DU:49:HIS:CD2	2.66	0.49
43:BH:41:MET:SD	43:BH:53:GLU:N	2.86	0.49
43:BH:124:GLU:HB2	43:BH:132:ARG:CG	2.42	0.49
36:DA:2746:U:O2'	36:DA:2747:G:H5'	2.12	0.49
43:DH:54:ARG:O	43:DH:54:ARG:HD2	2.13	0.49
39:BD:66:ASP:HB2	39:BD:103:ARG:HD2	1.95	0.49
36:BA:1719:G:O2'	36:BA:1720:U:H5'	2.13	0.49
46:DO:13:ASN:ND2	46:DO:97:ARG:CG	2.75	0.49
15:CO:71:GLN:O	15:CO:71:GLN:HG2	2.11	0.49
54:BW:58:ALA:O	54:BW:63:ASP:N	2.45	0.49
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2741:A:H2'	36:DA:2742:C:O4'	2.12	0.49
1:AA:247:G:C6	1:AA:278:G:C2	3.01	0.49
53:DV:37:VAL:HG23	53:DV:37:VAL:O	2.13	0.49
8:CH:109:ILE:HG13	8:CH:120:THR:HB	1.95	0.49
28:B2:16:LEU:O	28:B2:17:SER:OG	2.26	0.49
25:CY:293:THR:C	25:CY:295:GLU:H	2.16	0.49
25:AY:339:SER:O	25:AY:351:ARG:NH1	2.45	0.49
1:AA:1270:C:H2'	1:AA:1271:G:H8	1.78	0.49
1:CA:865:A:H2'	1:CA:866:C:C6	2.48	0.49
1:AA:1259:C:C4	1:AA:1260:C:O2	2.65	0.49
36:DA:1638:C:H5''	36:DA:2710:C:O2'	2.11	0.49
1:AA:990:C:H2'	1:AA:991:U:C6	2.47	0.49
36:BA:1216:G:N2	36:BA:1234:U:H1'	2.27	0.49
1:CA:358:U:H2'	1:CA:359:U:H6	1.77	0.49
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.16	0.49
36:BA:1772:G:H5'	36:BA:1773:A:OP2	2.13	0.49
40:DE:16:ARG:NH1	40:DE:171:GLU:OE2	2.45	0.49
17:CQ:4:LYS:CG	17:CQ:6:LEU:HD21	2.42	0.49
42:BG:180:PHE:O	42:BG:181:ARG:C	2.50	0.49
36:BA:445:C:O2'	36:BA:446:G:H5'	2.12	0.49
36:DA:2860:A:C2'	36:DA:2861:G:H5'	2.43	0.49
36:BA:1310:G:H2'	36:BA:1311:G:H5'	1.95	0.49
36:BA:712:G:O2'	36:BA:713:G:H5'	2.12	0.49
1:CA:342:C:O2'	1:CA:343:U:H5'	2.12	0.49
36:DA:1006:C:O2'	45:DN:106:MET:HB3	2.13	0.49
56:DY:42:VAL:HB	56:DY:65:ALA:HB3	1.95	0.49
1:CA:902:G:O2'	1:CA:903:G:H5'	2.13	0.49
37:BB:4:C:H2'	37:BB:5:C:C6	2.47	0.49
36:DA:1091:G:H2'	36:DA:1092:C:C6	2.47	0.49
23:AW:44:A:H2'	23:AW:45:G:C8	2.47	0.49
25:CY:250:THR:HG21	25:CY:279:TYR:O	2.13	0.49
37:DB:45:A:H1'	42:DG:95:ARG:HH12	1.75	0.49
25:CY:18:ALA:O	25:CY:106:VAL:HA	2.12	0.49
25:CY:409:ILE:HG22	25:CY:459:LEU:CD2	2.31	0.49
25:AY:119:GLU:O	25:AY:120:THR:OG1	2.31	0.49
25:AY:13:ARG:O	25:AY:79:ILE:HA	2.12	0.49
25:AY:170:ARG:C	25:AY:171:GLU:HG2	2.31	0.49
1:CA:1507:A:H2'	1:CA:1508:G:C8	2.47	0.49
1:CA:1500:A:OP1	1:CA:1508:G:OP1	2.30	0.49
56:DY:102:CYS:SG	56:DY:103:GLY:N	2.86	0.49
56:DY:7:VAL:HG11	56:DY:8:LYS:HZ1	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:13:VAL:O	56:BY:24:VAL:HA	2.13	0.49
36:BA:1005:C:N3	36:BA:1143:A:C2	2.81	0.49
45:DN:24:GLY:O	45:DN:28:THR:HB	2.13	0.49
45:DN:58:ASP:C	45:DN:60:ILE:N	2.57	0.49
45:DN:67:LEU:CD2	45:DN:87:LEU:HB3	2.42	0.49
25:CY:608:VAL:HG12	25:CY:609:GLU:N	2.28	0.49
25:AY:181:LEU:HD21	25:AY:243:VAL:HG22	1.95	0.49
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	2.13	0.49
36:BA:2189:U:C3'	36:BA:2190:G:H5''	2.41	0.49
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.46	0.49
34:D8:50:LEU:CD1	34:D8:51:ALA:H	2.22	0.49
50:BS:85:VAL:HG23	50:BS:86:ALA:N	2.27	0.49
51:BT:33:LYS:NZ	51:BT:74:ARG:NH2	2.61	0.49
36:BA:585:G:H2'	36:BA:1251:C:N4	2.23	0.49
31:D5:35:GLU:O	31:D5:36:CYS:CB	2.61	0.49
13:AM:11:ARG:HG2	13:AM:12:ASN:N	2.28	0.49
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	2.28	0.49
36:DA:142:A:N6	36:DA:1596:A:H5'	2.28	0.49
23:AW:30:G:C2'	23:AW:31:G:H5''	2.42	0.49
36:BA:594:U:H2'	36:BA:595:C:H6	1.78	0.49
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.35	0.49
25:CY:168:ILE:HD11	25:CY:178:ILE:CD1	2.41	0.49
1:CA:1198:G:H2'	1:CA:1199:U:O4'	2.11	0.49
39:DD:267:SER:C	39:DD:269:PHE:H	2.16	0.49
41:BF:132:VAL:HG22	41:BF:133:ASN:HD22	1.78	0.49
36:BA:1960:A:H8	36:BA:1960:A:C5'	2.26	0.49
43:BH:86:GLU:CB	43:BH:132:ARG:HB3	2.43	0.49
48:BQ:130:LYS:NZ	57:BZ:80:ARG:NH1	2.61	0.49
2:AB:33:TYR:HB2	2:AB:43:ASP:CB	2.42	0.49
36:BA:2174:C:O2'	36:BA:2175:C:H5'	2.11	0.49
36:BA:1719:G:H2'	36:BA:1720:U:H5'	1.94	0.49
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.57	0.49
36:DA:1943:U:O2'	36:DA:1944:U:O5'	2.26	0.49
4:CD:127:THR:HG22	4:CD:147:ALA:O	2.12	0.49
9:AI:47:LEU:H	9:AI:47:LEU:HD12	1.70	0.49
37:DB:86:G:C6	37:DB:92:C:N3	2.80	0.49
31:B5:44:THR:HG22	31:B5:45:VAL:N	2.28	0.49
4:AD:163:GLU:C	4:AD:165:MET:N	2.66	0.49
25:CY:343:ASN:O	25:CY:347:GLY:HA2	2.13	0.49
12:AL:91:LYS:HG3	12:AL:91:LYS:O	2.13	0.49
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D7:24:THR:HG23	33:D7:27:GLY:HA3	1.93	0.49
2:AB:207:ALA:O	2:AB:208:ILE:C	2.50	0.49
4:CD:163:GLU:C	4:CD:165:MET:H	2.16	0.49
36:DA:1164:G:H1	36:DA:1185:C:H42	1.60	0.49
19:AS:53:ASN:C	19:AS:55:LYS:N	2.65	0.49
41:BF:32:LEU:C	41:BF:32:LEU:HD23	2.32	0.49
37:BB:15:A:C3'	37:BB:16:G:H5'	2.42	0.49
15:CO:55:GLY:O	15:CO:56:LEU:C	2.51	0.49
36:BA:2850:A:C2	49:BR:61:HIS:CD2	3.01	0.49
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.33	0.49
36:BA:724:U:O2'	36:BA:725:G:H5'	2.13	0.49
52:DU:101:ARG:NH1	53:DV:13:ARG:HE	2.10	0.49
25:CY:416:LYS:HB3	25:CY:420:ASP:OD2	2.12	0.49
9:AI:10:ARG:O	9:AI:11:LYS:HB3	2.13	0.49
1:AA:559:A:H4'	1:AA:560:U:C5'	2.42	0.49
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.12	0.49
6:CF:80:ARG:NH1	6:CF:88:VAL:O	2.45	0.49
36:DA:1316:U:H2'	36:DA:1317:A:C8	2.47	0.49
4:CD:152:SER:O	4:CD:154:ASN:N	2.46	0.49
36:DA:1655:A:H4'	40:DE:115:GLY:H	1.78	0.49
36:DA:2750:A:H2'	36:DA:2752:C:N4	2.28	0.49
36:DA:773:U:H5'	39:DD:47:GLY:HA2	1.94	0.49
23:AW:44:A:C6	23:AW:45:G:C2	3.00	0.49
36:BA:1165:U:H2'	36:BA:1166:C:C6	2.47	0.49
36:BA:1166:C:H2'	36:BA:1167:U:C6	2.47	0.49
36:BA:1531:C:H2'	36:BA:1532:C:C6	2.48	0.49
57:BZ:51:ALA:HB1	57:BZ:57:ILE:HD11	1.95	0.49
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.13	0.49
39:DD:134:ARG:HG3	39:DD:135:PHE:CD1	2.48	0.49
1:AA:1216:G:OP1	14:AN:2:ALA:HA	2.12	0.49
1:AA:530:G:H1	24:AX:21:A:H1'	1.78	0.49
8:CH:65:TYR:HA	8:CH:79:VAL:HG23	1.95	0.49
40:DE:145:LYS:O	40:DE:148:GLY:N	2.45	0.49
1:AA:93:G:O2'	1:AA:96:U:H5'	2.13	0.49
36:BA:2707:G:H2'	36:BA:2708:G:H8	1.76	0.49
3:AC:101:LEU:C	3:AC:101:LEU:HD23	2.33	0.49
1:AA:1076:C:H5'	1:AA:1077:G:OP2	2.12	0.49
1:CA:926:G:N2	24:CX:16:U:OP2	2.39	0.49
38:DC:101:ILE:N	38:DC:101:ILE:HD12	2.28	0.49
25:AY:139:MET:O	25:AY:144:ALA:CB	2.61	0.49
25:CY:554:PRO:HG3	25:CY:594:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2134:A:C8	36:BA:2158:A:C2	3.01	0.49
2:AB:165:VAL:CG2	2:AB:166:ASP:H	2.05	0.49
55:DX:35:THR:HG22	55:DX:36:LYS:N	2.28	0.49
52:DU:83:LEU:H	52:DU:83:LEU:CD1	2.25	0.49
32:D6:38:LYS:HB3	36:DA:2344:U:C5'	2.43	0.49
36:DA:2372:G:O2'	36:DA:2373:G:H5'	2.12	0.49
25:AY:632:LEU:HG	25:AY:645:ALA:HA	1.95	0.49
36:BA:2262:U:O2'	36:BA:2263:C:H5''	2.12	0.49
36:DA:1015:G:H2'	36:DA:1016:G:H8	1.78	0.49
47:DP:115:LEU:HD23	47:DP:115:LEU:H	1.77	0.49
25:CY:519:ARG:NH2	25:CY:678:GLU:HB2	2.28	0.49
25:AY:210:ARG:O	25:AY:213:HIS:N	2.46	0.49
50:BS:12:PHE:CD1	50:BS:12:PHE:C	2.86	0.49
27:B1:80:LEU:CD2	27:B1:81:LYS:N	2.73	0.49
1:AA:1004:A:C6	1:AA:1034:G:H2'	2.47	0.49
41:BF:28:ILE:O	41:BF:28:ILE:HG12	2.13	0.49
25:AY:526:VAL:CG1	25:AY:566:THR:HG23	2.43	0.49
40:BE:77:ILE:HG22	40:BE:78:LEU:N	2.28	0.49
36:BA:481:G:OP2	56:BY:47:LYS:HD3	2.13	0.49
25:AY:174:PHE:HD2	25:AY:267:LYS:HD2	1.77	0.49
36:DA:1479:G:H5'	36:DA:1558:A:C2	2.46	0.49
25:AY:147:TRP:O	25:AY:151:ARG:HG3	2.12	0.49
51:DT:11:GLU:C	51:DT:13:ARG:H	2.16	0.49
52:DU:47:TYR:O	52:DU:51:LYS:HG2	2.13	0.49
43:BH:53:GLU:CD	43:BH:54:ARG:H	2.16	0.49
39:DD:69:ARG:O	39:DD:71:ASP:N	2.46	0.49
48:BQ:59:ARG:O	48:BQ:60:ARG:HB2	2.13	0.49
4:AD:19:LEU:O	4:AD:26:CYS:SG	2.70	0.49
25:CY:276:VAL:O	25:CY:280:LEU:HB2	2.12	0.49
1:CA:1225:A:N3	1:CA:1225:A:C2'	2.73	0.49
45:DN:34:LEU:O	45:DN:116:LEU:HD22	2.13	0.49
38:BC:185:LYS:HE3	38:BC:185:LYS:HA	1.95	0.49
37:DB:87:G:H3'	37:DB:88:C:H5''	1.94	0.49
43:DH:18:GLU:HG3	43:DH:25:LYS:HB2	1.95	0.49
12:CL:86:ARG:NH2	12:CL:99:HIS:CG	2.81	0.49
2:AB:207:ALA:HB3	2:AB:210:SER:HB2	1.94	0.49
2:AB:207:ALA:HB3	2:AB:210:SER:HB3	1.95	0.49
36:BA:295:G:H2'	36:BA:296:C:C6	2.47	0.49
36:BA:82:G:H5''	36:BA:296:C:C5'	2.43	0.49
28:B2:18:PRO:O	28:B2:19:VAL:C	2.50	0.49
1:CA:769:G:O2'	1:CA:770:C:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:42:GLN:HE21	20:AT:42:GLN:CA	2.19	0.49
41:BF:18:ARG:CZ	41:BF:199:TRP:CZ3	2.96	0.49
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.42	0.49
1:AA:528:C:H41	12:AL:49:ASN:ND2	2.09	0.49
27:D1:64:ALA:HA	27:D1:67:ILE:CD1	2.42	0.49
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.43	0.49
5:CE:9:LYS:CB	5:CE:112:LEU:HD11	2.43	0.49
11:CK:126:ARG:HH11	11:CK:126:ARG:HG2	1.77	0.49
36:DA:1336:A:H2'	36:DA:1337:G:C8	2.47	0.49
36:BA:425:G:H2'	36:BA:426:C:H6	1.78	0.49
53:DV:88:ARG:O	53:DV:90:PRO:HD3	2.12	0.49
36:DA:341:G:H2'	36:DA:342:G:H8	1.77	0.49
36:BA:341:G:H2'	36:BA:342:G:H8	1.77	0.49
36:DA:2150:U:H2'	36:DA:2151:G:H8	1.78	0.49
15:CO:53:HIS:O	15:CO:57:LEU:HD23	2.12	0.49
1:CA:711:G:O2'	1:CA:712:A:H5'	2.12	0.49
42:BG:172:LEU:HD23	42:BG:176:LEU:HG	1.94	0.49
22:CV:9:A:N3	22:CV:45:U:C2	2.81	0.49
25:AY:322:VAL:HG21	25:AY:325:LEU:HD21	1.94	0.49
36:DA:2432:A:O2'	36:DA:2433:A:H5'	2.13	0.49
14:CN:7:ILE:HG13	14:CN:8:GLU:N	2.27	0.49
36:BA:1710:C:H2'	36:BA:1711:C:C6	2.48	0.49
36:BA:1010:A:H1'	36:BA:1153:C:H1'	1.95	0.49
49:DR:48:VAL:O	49:DR:49:ASP:C	2.51	0.49
25:CY:96:ARG:HG3	25:CY:403:GLU:OE2	2.12	0.49
36:DA:393:C:O2'	36:DA:394:A:H5'	2.13	0.49
2:AB:45:GLN:HG2	2:AB:45:GLN:O	2.13	0.49
25:CY:159:ALA:O	25:CY:161:PRO:CD	2.60	0.49
42:DG:99:MET:O	42:DG:103:LEU:HD12	2.13	0.49
25:CY:454:MET:H	25:CY:458:HIS:CD2	2.31	0.49
25:CY:174:PHE:HD2	25:CY:267:LYS:HD3	1.78	0.49
36:DA:2134:A:C2	36:DA:2159:G:O2'	2.66	0.49
23:AW:5:G:H1	23:AW:68:C:N4	2.11	0.49
57:BZ:61:LEU:C	57:BZ:63:ASP:H	2.16	0.49
57:BZ:67:LEU:HD23	57:BZ:90:VAL:HG11	1.95	0.49
45:DN:46:VAL:HG11	45:DN:48:MET:SD	2.53	0.49
36:BA:136:G:H2'	36:BA:137:C:H6	1.78	0.49
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.65	0.49
47:DP:23:PRO:C	47:DP:33:ARG:CZ	2.81	0.49
37:DB:48:A:H2'	37:DB:49:C:C6	2.47	0.49
25:AY:489:LYS:HG3	25:AY:597:GLY:HA2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:94:LYS:HG3	56:BY:102:CYS:SG	2.53	0.49
45:BN:67:LEU:CD2	45:BN:87:LEU:HB3	2.42	0.49
49:DR:100:LEU:HD13	49:DR:100:LEU:N	2.27	0.49
56:BY:44:ILE:O	56:BY:62:GLU:HB3	2.13	0.49
56:DY:46:LYS:HB2	56:DY:62:GLU:HG3	1.94	0.49
45:DN:57:ALA:O	45:DN:58:ASP:O	2.31	0.49
36:DA:606:U:H5'	36:DA:607:U:OP2	2.13	0.49
36:BA:821:A:H2'	36:BA:946:G:H5''	1.94	0.49
36:DA:2206:G:N2	36:DA:2207:G:H5'	2.28	0.49
51:DT:106:SER:O	51:DT:107:ASP:HB3	2.12	0.49
54:BW:88:ARG:CB	54:BW:92:ARG:HB3	2.38	0.49
1:AA:1151:A:O2'	1:AA:1152:A:H8	1.95	0.49
39:DD:35:LYS:HA	39:DD:64:ILE:H	1.76	0.49
1:CA:192:U:H2'	1:CA:193:C:H6	1.76	0.49
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.13	0.49
45:DN:131:GLN:HE22	45:DN:133:GLN:CA	2.26	0.49
1:CA:149:A:N3	1:CA:149:A:H2'	2.28	0.49
34:D8:23:VAL:HG13	34:D8:47:LYS:O	2.12	0.49
39:BD:26:LYS:N	39:BD:26:LYS:HE2	2.27	0.49
36:BA:1656:C:H2'	36:BA:1657:C:H6	1.78	0.49
40:BE:34:VAL:HG12	40:BE:48:GLN:O	2.13	0.49
40:BE:70:ALA:O	40:BE:72:VAL:N	2.46	0.49
40:BE:49:LEU:O	40:BE:78:LEU:CB	2.61	0.49
8:AH:137:VAL:HG12	8:AH:138:TRP:N	2.28	0.49
36:BA:1479:G:H5'	36:BA:1558:A:C2	2.45	0.49
4:CD:36:ARG:CB	4:CD:36:ARG:NH1	2.68	0.49
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.95	0.49
36:DA:481:G:H1'	36:DA:506:G:N2	2.27	0.49
42:BG:41:GLN:HE22	42:BG:153:ARG:HD2	1.78	0.49
42:BG:40:ASN:ND2	42:BG:41:GLN:N	2.61	0.49
1:CA:973:G:H1'	10:CJ:55:LYS:HZ3	1.77	0.49
54:DW:25:ARG:NH2	54:DW:74:ALA:O	2.45	0.49
9:AI:50:LEU:HD23	9:AI:85:LEU:CD2	2.43	0.49
1:AA:973:G:OP1	10:AJ:57:LYS:HD3	2.13	0.49
23:CW:50:U:H3	23:CW:64:G:H1	1.61	0.49
25:AY:303:PRO:HA	25:AY:331:TYR:O	2.13	0.49
25:AY:289:ILE:HG21	25:AY:399:LEU:HD23	1.94	0.49
43:BH:54:ARG:HD2	43:BH:54:ARG:O	2.13	0.49
39:DD:66:ASP:HB2	39:DD:103:ARG:HD2	1.95	0.49
19:CS:40:ILE:O	19:CS:41:VAL:C	2.51	0.49
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:171:ILE:HG13	57:DZ:172:ALA:N	2.28	0.49
1:AA:1509:C:C2'	1:AA:1510:U:H5'	2.43	0.49
36:DA:2756:U:C4'	36:DA:2757:A:OP1	2.57	0.49
36:BA:654(L):G:C2'	36:BA:654(M):C:H4'	2.38	0.49
36:DA:1577:C:H2'	36:DA:1578:U:C6	2.48	0.49
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.56	0.49
36:BA:2746:U:O2'	36:BA:2747:G:H5'	2.12	0.49
36:BA:1788:C:H2'	36:BA:1789:A:O4'	2.12	0.49
56:BY:32:PRO:O	56:BY:35:TYR:N	2.46	0.49
36:BA:2617:C:O2'	36:BA:2618:G:H5'	2.13	0.49
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.12	0.49
43:DH:29:PRO:C	43:DH:30:LYS:HE2	2.33	0.49
4:CD:59:ARG:NH2	4:CD:62:GLN:HG3	2.28	0.49
12:CL:78:GLN:O	12:CL:79:GLU:C	2.51	0.49
56:BY:87:LYS:O	56:BY:88:LYS:HB2	2.12	0.49
56:BY:95:LYS:CD	56:BY:101:LYS:H	2.26	0.49
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.13	0.49
37:BB:106:G:O2'	37:BB:107:G:H5'	2.13	0.49
27:B1:51:VAL:HG22	27:B1:52:ARG:H	1.78	0.49
36:DA:271(Z):C:H2'	36:DA:272:G:C8	2.48	0.49
1:AA:694:A:O2'	23:AW:38:A:O2'	2.30	0.49
2:AB:131:PRO:HG2	2:AB:134:GLU:HG2	1.94	0.49
36:DA:2840:C:H5''	49:DR:53:HIS:CD2	2.48	0.49
18:CR:30:ASP:O	18:CR:32:ARG:N	2.38	0.49
36:BA:1666:G:C2'	36:BA:1667:G:H5'	2.42	0.49
36:BA:2117:A:N6	36:BA:2171:A:N6	2.60	0.49
37:BB:20:C:H2'	37:BB:21:G:H5''	1.95	0.49
42:DG:107:LEU:HD21	42:DG:178:PHE:CD1	2.48	0.49
36:BA:1429:G:H2'	36:BA:1430:C:C6	2.48	0.49
40:DE:101:ARG:NH1	40:DE:169:ASN:ND2	2.60	0.49
30:B4:22:ILE:CG2	30:B4:23:GLU:N	2.76	0.49
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.42	0.49
1:AA:674:G:H4'	18:AR:81:PHE:CD2	2.48	0.49
21:AU:8:THR:O	21:AU:12:LYS:HB2	2.13	0.49
7:CG:103:TRP:CE2	7:CG:137:LYS:HD3	2.47	0.49
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.28	0.49
1:CA:1132:C:N4	1:CA:1133:G:C6	2.80	0.49
27:B1:32:LYS:C	27:B1:33:LYS:HG3	2.34	0.49
25:AY:604:PRO:CB	25:AY:673:PHE:HE1	2.25	0.49
36:BA:1091:G:H2'	36:BA:1092:C:C6	2.48	0.49
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:830:G:O2'	1:CA:831:U:H5'	2.12	0.49
36:DA:34:C:H5	36:DA:454:A:HO2'	1.59	0.49
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.43	0.49
15:AO:28:GLN:O	15:AO:32:LEU:HG	2.13	0.49
36:BA:2137:C:N3	36:BA:2155:G:C2	2.81	0.49
25:AY:363:ARG:HH11	25:AY:363:ARG:HG3	1.76	0.49
1:CA:791:G:N2	1:CA:1497:G:O3'	2.42	0.49
51:BT:137:LYS:HG2	51:BT:138:ALA:N	2.28	0.49
46:BO:44:LYS:O	46:BO:45:GLU:HB3	2.13	0.49
27:D1:49:VAL:HG23	27:D1:62:VAL:HG12	1.95	0.49
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.95	0.48
42:DG:2:PRO:O	42:DG:3:LEU:HB2	2.13	0.48
25:CY:427:ALA:HB1	25:CY:466:LEU:CG	2.34	0.48
25:AY:400:GLU:O	25:AY:401:SER:HB2	2.13	0.48
1:AA:1316:G:O2'	14:AN:18:VAL:HG11	2.13	0.48
29:D3:32:GLN:HG3	36:DA:1158:C:O2'	2.13	0.48
50:BS:101:LEU:HD12	50:BS:102:ALA:O	2.11	0.48
41:BF:126:VAL:HG23	41:BF:127:GLU:N	2.28	0.48
36:DA:184:C:H2'	36:DA:185:U:C6	2.48	0.48
45:DN:4:TYR:O	45:DN:5:VAL:C	2.52	0.48
50:DS:12:PHE:CD1	50:DS:12:PHE:C	2.86	0.48
45:BN:57:ALA:O	45:BN:58:ASP:O	2.30	0.48
32:D6:48:VAL:O	32:D6:49:HIS:HB2	2.12	0.48
32:B6:16:CYS:SG	32:B6:48:VAL:CG2	3.01	0.48
32:B6:18:ARG:HG3	32:B6:19:ARG:H	1.78	0.48
39:BD:35:LYS:HG2	39:BD:62:TYR:C	2.34	0.48
36:BA:1495:A:H2'	36:BA:1496:A:N3	2.27	0.48
3:CC:35:GLU:O	3:CC:38:ARG:HG2	2.13	0.48
1:AA:1037:C:H2'	1:AA:1038:C:C4	2.47	0.48
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.66	0.48
28:D2:48:HIS:CG	28:D2:49:LYS:N	2.81	0.48
47:BP:59:LEU:CA	47:BP:61:ARG:NE	2.70	0.48
36:DA:1487:G:H2'	36:DA:1487:G:N3	2.27	0.48
51:BT:56:GLY:O	51:BT:59:THR:HG23	2.13	0.48
39:BD:27:THR:O	39:BD:27:THR:HG23	2.13	0.48
47:BP:16:ARG:O	47:BP:16:ARG:NH1	2.43	0.48
51:DT:57:PHE:O	51:DT:58:ASN:C	2.52	0.48
43:DH:169:VAL:HG13	43:DH:170:ARG:N	2.27	0.48
36:BA:287:C:H2'	36:BA:288:C:C6	2.48	0.48
42:BG:103:LEU:HA	42:BG:106:LEU:HB3	1.95	0.48
12:AL:53:ARG:HG2	12:AL:53:ARG:HH11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:3:ARG:O	51:DT:4:GLY:C	2.50	0.48
1:CA:182:U:H5'	1:CA:183:G:P	2.51	0.48
1:CA:183:G:O2'	1:CA:224:C:H4'	2.13	0.48
3:CC:15:THR:HG22	3:CC:16:ARG:N	2.28	0.48
9:AI:56:LEU:HD23	9:AI:56:LEU:C	2.33	0.48
36:DA:1614:A:H62	54:DW:93:ALA:CB	2.22	0.48
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.60	0.48
16:CP:8:ARG:HG2	16:CP:8:ARG:HH11	1.77	0.48
35:B9:31:LYS:HD3	36:BA:2478:A:OP1	2.13	0.48
45:BN:108:PRO:HG2	45:BN:113:GLY:HA3	1.94	0.48
15:CO:74:ASP:C	15:CO:76:GLU:H	2.15	0.48
7:CG:80:VAL:HG23	7:CG:83:ALA:HB3	1.94	0.48
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.13	0.48
43:DH:35:VAL:HG11	43:DH:72:ILE:HD13	1.95	0.48
36:DA:1306:C:H2'	36:DA:1307:A:C8	2.43	0.48
1:CA:864:A:H2'	1:CA:865:A:C8	2.48	0.48
36:DA:1681:G:O2'	36:DA:1762:A:N3	2.33	0.48
28:B2:10:LEU:HD22	28:B2:14:ARG:HH21	1.77	0.48
14:AN:53:LEU:HB3	14:AN:56:VAL:CG2	2.43	0.48
37:BB:44:G:H1'	37:BB:47:C:H41	1.78	0.48
39:BD:209:ALA:C	39:BD:210:GLY:O	2.51	0.48
36:BA:2192:G:C3'	36:BA:2193:G:H5''	2.43	0.48
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.78	0.48
1:AA:826:C:H2'	1:AA:827:U:C6	2.47	0.48
36:DA:567:A:N1	36:DA:571:A:H8	2.11	0.48
36:DA:2704:C:O2'	36:DA:2705:A:H5'	2.13	0.48
2:CB:235:SER:C	2:CB:237:ALA:H	2.14	0.48
42:BG:180:PHE:O	42:BG:182:LYS:N	2.46	0.48
36:BA:1335:U:H2'	36:BA:1336:A:C8	2.48	0.48
36:DA:2860:A:H2'	36:DA:2861:G:H5'	1.94	0.48
36:BA:2352:A:C2'	36:BA:2353:G:H5'	2.43	0.48
17:CQ:24:GLU:O	17:CQ:25:ARG:HB3	2.13	0.48
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.78	0.48
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.28	0.48
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.95	0.48
36:BA:1917:U:O2'	36:BA:1918:A:H5'	2.13	0.48
38:DC:178:LYS:HG2	38:DC:181:PHE:HE1	1.78	0.48
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.78	0.48
36:BA:1838:C:O2'	36:BA:1839:G:H5''	2.13	0.48
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.12	0.48
36:BA:1605:C:C5	36:BA:1606:G:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:44:ARG:O	41:DF:44:ARG:HG3	2.13	0.48
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.43	0.48
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.43	0.48
36:DA:2137:C:N3	36:DA:2155:G:C2	2.80	0.48
1:CA:93:G:O2'	1:CA:96:U:H5'	2.12	0.48
25:CY:507:TYR:CD2	25:CY:573:HIS:HB2	2.48	0.48
36:BA:694:U:C2'	36:BA:695:G:O5'	2.61	0.48
36:BA:615:G:OP1	41:BF:182:ASN:HB3	2.12	0.48
42:DG:88:ILE:HG23	42:DG:89:GLY:N	2.28	0.48
25:AY:15:ILE:CD1	25:AY:81:ILE:HG23	2.43	0.48
1:CA:793:U:C3'	1:CA:794:A:C5'	2.87	0.48
49:BR:2:ARG:HD2	49:BR:5:LYS:HE2	1.93	0.48
25:CY:230:LYS:HB2	25:CY:230:LYS:HZ2	1.78	0.48
32:B6:20:ASN:ND2	32:B6:44:ARG:HH22	2.11	0.48
36:DA:1019:U:O2'	36:DA:1021:A:C2	2.62	0.48
51:BT:89:VAL:HG12	51:BT:91:ARG:H	1.79	0.48
25:AY:424:LEU:HA	25:AY:427:ALA:CB	2.42	0.48
39:DD:35:LYS:CB	39:DD:63:ARG:HA	2.43	0.48
1:CA:1001(A):G:H8	1:CA:1002:G:C8	2.30	0.48
36:DA:2189:U:C3'	36:DA:2190:G:H5''	2.43	0.48
28:B2:69:ARG:O	28:B2:70:GLN:HB2	2.13	0.48
1:CA:174:C:O2'	1:CA:175:C:H5'	2.13	0.48
34:D8:48:PHE:O	34:D8:49:VAL:HG22	2.13	0.48
36:BA:1257:C:O2'	41:BF:84:VAL:HG23	2.12	0.48
31:B5:48:GLU:O	31:B5:49:CYS:CB	2.61	0.48
5:CE:101:ILE:HD13	5:CE:118:ILE:O	2.12	0.48
2:AB:17:PHE:CD1	2:AB:18:GLY:N	2.81	0.48
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.12	0.48
9:CI:7:THR:O	9:CI:83:ARG:HD2	2.13	0.48
36:DA:365:C:C5'	36:DA:365:C:H6	2.17	0.48
18:CR:44:LEU:O	18:CR:45:SER:O	2.30	0.48
2:CB:33:TYR:HB2	2:CB:43:ASP:CB	2.43	0.48
20:AT:56:MET:HG3	20:AT:84:LEU:HD12	1.95	0.48
25:AY:304:ASP:C	25:AY:306:ASN:H	2.16	0.48
10:CJ:61:GLU:HG3	14:CN:58:LYS:NZ	2.28	0.48
10:CJ:61:GLU:OE2	14:CN:49:HIS:CE1	2.61	0.48
41:BF:123:LEU:HD12	41:BF:124:LEU:H	1.78	0.48
57:BZ:78:LYS:N	57:BZ:78:LYS:HD3	2.27	0.48
54:DW:14:PRO:CG	54:DW:78:GLU:HB2	2.42	0.48
3:AC:119:ARG:O	3:AC:123:GLN:HG3	2.13	0.48
25:AY:580:MET:SD	36:BA:1913:A:C6	3.06	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DQ:56:ARG:NE	48:DQ:56:ARG:HA	2.27	0.48
35:B9:27:CYS:SG	35:B9:29:ASN:ND2	2.86	0.48
36:BA:1186:G:O2'	36:BA:1187:G:H5'	2.13	0.48
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.28	0.48
45:BN:34:LEU:O	45:BN:116:LEU:HD22	2.13	0.48
43:BH:29:PRO:C	43:BH:30:LYS:HE2	2.34	0.48
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.76	0.48
31:B5:58:LEU:HD13	31:B5:58:LEU:C	2.34	0.48
56:BY:2:ARG:HD3	56:BY:2:ARG:C	2.33	0.48
56:BY:2:ARG:C	56:BY:4:LYS:H	2.16	0.48
7:CG:83:ALA:HB1	7:CG:85:TYR:CE1	2.47	0.48
36:DA:598:G:C5'	47:DP:15:ARG:HB2	2.42	0.48
4:AD:59:ARG:NH2	4:AD:62:GLN:HG3	2.28	0.48
50:DS:19:LYS:O	50:DS:20:ARG:NH2	2.46	0.48
10:CJ:47:PHE:CE2	14:CN:37:PHE:CE1	3.01	0.48
36:BA:1638:C:O2'	36:BA:1639:U:H5'	2.13	0.48
56:DY:87:LYS:O	56:DY:88:LYS:HB2	2.12	0.48
41:DF:4:VAL:HG22	41:DF:19:GLU:OE1	2.13	0.48
36:BA:2626:C:O2'	36:BA:2627:G:H5'	2.13	0.48
5:AE:143:ARG:NH1	8:AH:77:GLU:CD	2.67	0.48
36:DA:1682:G:H2'	36:DA:1683:C:H6	1.78	0.48
36:DA:2115:G:C3'	36:DA:2116:G:H5''	2.43	0.48
36:BA:1681:G:O2'	36:BA:1762:A:N3	2.35	0.48
47:BP:13:ASN:ND2	47:BP:13:ASN:H	2.11	0.48
36:BA:755:C:H2'	36:BA:756:C:C6	2.48	0.48
36:DA:1360:A:H5'	36:DA:1361:G:OP2	2.13	0.48
36:DA:753:C:H2'	36:DA:754:C:C6	2.47	0.48
4:CD:192:GLU:N	4:CD:192:GLU:CD	2.65	0.48
36:BA:1119:C:H2'	36:BA:1120:G:H8	1.78	0.48
36:DA:1341:U:O4'	55:DX:57:LEU:HD12	2.14	0.48
48:DQ:136:ALA:C	48:DQ:138:ASP:N	2.66	0.48
57:BZ:145:GLU:O	57:BZ:147:GLY:N	2.46	0.48
36:DA:1336:A:H2'	36:DA:1337:G:H8	1.79	0.48
36:BA:61:G:H1	36:BA:94:C:H42	1.61	0.48
44:BJ:74:UNK:O	44:BJ:76:UNK:N	2.47	0.48
57:DZ:3:TYR:CE2	57:DZ:51:ALA:HB2	2.48	0.48
6:AF:80:ARG:NH1	6:AF:88:VAL:O	2.46	0.48
38:BC:65:LEU:HD11	38:BC:162:ILE:HD13	1.96	0.48
1:CA:398:C:O5'	1:CA:398:C:H6	1.95	0.48
8:AH:54:ASP:O	8:AH:56:LYS:HG3	2.13	0.48
46:DO:31:LYS:HB3	46:DO:32:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1972:A:H2'	36:DA:1973:G:H8	1.78	0.48
3:CC:111:LEU:HD21	3:CC:144:SER:HB2	1.95	0.48
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.48	0.48
1:AA:106:C:C2'	1:AA:107:G:H5'	2.43	0.48
36:DA:1358:G:O2'	36:DA:1359:A:H5''	2.12	0.48
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.13	0.48
1:AA:312:C:H2'	1:AA:313:A:C8	2.48	0.48
41:DF:135:LYS:HB3	41:DF:138:GLU:CG	2.42	0.48
36:BA:312:G:H2'	36:BA:313:C:O4'	2.12	0.48
25:CY:637:ARG:HH11	25:CY:637:ARG:HG3	1.78	0.48
36:DA:671:C:O2'	36:DA:672:C:H5'	2.13	0.48
1:AA:582:U:OP1	15:AO:68:ARG:NH2	2.46	0.48
15:CO:28:GLN:O	15:CO:32:LEU:HG	2.12	0.48
33:B7:17:GLY:O	33:B7:20:ALA:HB3	2.13	0.48
25:CY:580:MET:HE2	25:CY:580:MET:C	2.33	0.48
24:AX:11:A:C3'	24:AX:11:A:N3	2.74	0.48
10:AJ:78:ASN:C	10:AJ:79:ARG:NH1	2.67	0.48
25:AY:88:VAL:O	25:AY:89:ASP:C	2.50	0.48
1:CA:1316:G:O2'	14:CN:18:VAL:HG11	2.14	0.48
36:DA:2645:G:C4'	36:DA:2732:G:O2'	2.58	0.48
57:BZ:67:LEU:HD23	57:BZ:90:VAL:CG1	2.43	0.48
36:BA:2645:G:C4'	36:BA:2732:G:O2'	2.56	0.48
37:BB:48:A:H2'	37:BB:49:C:H6	1.78	0.48
57:BZ:152:ALA:CA	57:BZ:167:PRO:HB2	2.43	0.48
50:DS:97:ARG:O	50:DS:97:ARG:NE	2.47	0.48
2:AB:86:GLU:C	2:AB:88:ALA:H	2.16	0.48
36:DA:136:G:H2'	36:DA:137:C:H6	1.78	0.48
36:DA:2334:G:C2	50:DS:15:ARG:NH1	2.81	0.48
12:CL:41:ARG:NH1	12:CL:41:ARG:CB	2.69	0.48
36:DA:635:C:H2'	36:DA:636:G:O4'	2.14	0.48
50:BS:15:ARG:O	50:BS:18:ILE:HG13	2.12	0.48
27:B1:86:SER:CB	27:B1:89:GLU:HB2	2.41	0.48
36:BA:2056:G:N2	36:BA:2057:A:C4	2.82	0.48
1:AA:1002:G:C8	1:AA:1003:G:N7	2.81	0.48
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.97	0.48
28:D2:28:LYS:HB3	28:D2:57:ILE:CD1	2.43	0.48
36:DA:2190:G:O2'	36:DA:2191:G:H5'	2.13	0.48
25:AY:566:THR:O	25:AY:566:THR:HG22	2.14	0.48
17:CQ:18:THR:HG23	17:CQ:44:ALA:O	2.13	0.48
27:D1:76:ARG:NH2	27:D1:95:LEU:HD22	2.27	0.48
1:AA:265:G:N2	1:AA:267:C:H5'	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:149:A:H2'	1:AA:149:A:N3	2.28	0.48
47:DP:16:ARG:NH2	47:DP:18:ARG:HG2	2.28	0.48
10:CJ:6:ILE:HD12	10:CJ:6:ILE:C	2.31	0.48
1:CA:423:G:H2'	1:CA:424:G:H5'	1.95	0.48
1:CA:1029:C:O2'	1:CA:1032:G:N2	2.47	0.48
4:CD:196:LEU:C	4:CD:198:VAL:H	2.16	0.48
1:CA:687:A:N1	1:CA:700:G:O2'	2.34	0.48
43:BH:84:SER:OG	43:BH:85:LYS:N	2.45	0.48
41:DF:133:ASN:N	41:DF:133:ASN:HD22	2.12	0.48
54:DW:17:VAL:O	54:DW:20:VAL:HG22	2.13	0.48
19:CS:61:TYR:CG	19:CS:62:ILE:N	2.79	0.48
20:AT:45:GLN:HB2	20:AT:91:LEU:CD1	2.41	0.48
36:BA:1028:A:H2'	36:BA:1029:A:C8	2.49	0.48
57:BZ:81:ARG:HB2	57:BZ:81:ARG:NH1	2.28	0.48
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.34	0.48
52:BU:47:TYR:O	52:BU:51:LYS:HG2	2.13	0.48
36:DA:654(P):C:O2'	36:DA:654(Q):C:H5'	2.13	0.48
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.95	0.48
19:AS:47:HIS:O	19:AS:62:ILE:HG21	2.14	0.48
42:BG:9:ARG:HD3	42:BG:13:GLU:OE2	2.12	0.48
36:BA:11:G:N2	36:BA:2628:C:OP1	2.46	0.48
16:AP:8:ARG:HG2	16:AP:8:ARG:HH11	1.79	0.48
36:BA:1116:C:H2'	36:BA:1117:G:C8	2.48	0.48
37:BB:87:G:C2'	37:BB:88:C:H5'	2.44	0.48
43:DH:149:ARG:HA	43:DH:162:ILE:CD1	2.43	0.48
40:DE:174:ASP:OD1	40:DE:175:VAL:N	2.46	0.48
13:CM:4:ILE:O	13:CM:5:ALA:C	2.52	0.48
36:DA:1168:G:H2'	36:DA:1169:G:C8	2.49	0.48
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.43	0.48
36:DA:192:C:C2'	36:DA:193:U:H5'	2.41	0.48
36:BA:120:U:C2'	36:BA:120:U:O2	2.59	0.48
1:AA:1314:C:OP2	19:AS:6:LYS:HD3	2.13	0.48
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.13	0.48
36:BA:753:C:H2'	36:BA:754:C:H6	1.78	0.48
29:D3:44:ARG:O	29:D3:46:ASN:N	2.46	0.48
1:CA:1318:A:O3'	19:CS:10:PHE:CD2	2.65	0.48
36:BA:1080:C:H2'	36:BA:1081:U:O4'	2.13	0.48
40:DE:9:VAL:CG2	40:DE:10:GLY:N	2.76	0.48
29:B3:44:ARG:O	29:B3:47:VAL:N	2.47	0.48
37:BB:115:G:H2'	37:BB:116:G:H8	1.78	0.48
1:CA:35:G:C6	1:CA:36:C:N4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:35:U:H5'	37:DB:36:C:OP2	2.13	0.48
28:D2:17:SER:O	28:D2:21:LEU:HG	2.13	0.48
46:DO:119:PRO:O	46:DO:120:GLU:HB2	2.14	0.48
33:D7:39:ARG:HD3	36:DA:458:G:O2'	2.13	0.48
6:CF:21:LEU:O	6:CF:24:GLU:HB3	2.13	0.48
52:BU:82:GLY:O	52:BU:84:LYS:N	2.46	0.48
26:D0:7:LEU:CD1	48:DQ:85:LYS:HE2	2.43	0.48
27:D1:17:SER:C	27:D1:18:ILE:HD12	2.34	0.48
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.48	0.48
3:AC:146:ALA:O	3:AC:148:GLY:N	2.46	0.48
1:CA:1216:G:OP1	14:CN:2:ALA:HA	2.13	0.48
36:BA:1921:G:O2'	36:BA:1922:G:H5'	2.14	0.48
36:BA:393:C:O2'	36:BA:394:A:H5'	2.12	0.48
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.81	0.48
56:DY:43:ASN:ND2	56:DY:64:GLU:HG3	2.28	0.48
42:DG:115:ARG:HH22	42:DG:136:ARG:HD3	1.79	0.48
36:BA:234:C:H2'	36:BA:235:U:C6	2.49	0.48
42:DG:133:LEU:C	42:DG:133:LEU:HD12	2.32	0.48
36:DA:2313:C:O4'	42:DG:40:ASN:OD1	2.31	0.48
25:CY:117:GLN:C	25:CY:119:GLU:N	2.66	0.48
1:CA:1316:G:H4'	14:CN:18:VAL:HG12	1.95	0.48
25:AY:286:ILE:HG23	25:AY:287:PRO:HD2	1.96	0.48
27:B1:3:LYS:CG	27:B1:4:VAL:H	1.97	0.48
34:D8:28:GLY:HA2	34:D8:32:LEU:HD21	1.96	0.48
36:BA:336:C:O3'	56:BY:7:VAL:HG22	2.13	0.48
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.94	0.48
25:AY:238:THR:CG2	25:AY:241:GLU:HG2	2.30	0.48
1:CA:1037:C:H2'	1:CA:1038:C:C4	2.48	0.48
1:CA:1038:C:H2'	1:CA:1039:C:C5	2.49	0.48
39:DD:27:THR:HG23	39:DD:27:THR:O	2.12	0.48
31:B5:36:CYS:HG	31:B5:49:CYS:CB	2.26	0.48
36:BA:2884:U:H2'	36:BA:2885:C:H5'	1.95	0.48
36:DA:594:U:H2'	36:DA:595:C:H6	1.78	0.48
23:AW:22:G:HO2'	23:AW:23:C:H5''	1.79	0.48
36:BA:1558:A:O2'	36:BA:1559:G:OP2	2.30	0.48
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.14	0.48
1:CA:963:G:N2	10:CJ:55:LYS:HD3	2.28	0.48
36:DA:918:A:H1'	37:DB:80:U:O2'	2.13	0.48
2:CB:8:LYS:HB2	2:CB:9:GLU:OE1	2.13	0.48
36:BA:365:C:C6	36:BA:365:C:H5'	2.31	0.48
25:AY:191:ASP:O	25:AY:266:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:285:C:C2'	36:DA:286:C:C5'	2.91	0.48
20:CT:93:GLU:C	20:CT:95:ALA:N	2.65	0.48
9:CI:56:LEU:C	9:CI:56:LEU:HD23	2.34	0.48
38:DC:185:LYS:HA	38:DC:185:LYS:HE3	1.95	0.48
38:DC:182:PRO:HB2	38:DC:185:LYS:HD2	1.95	0.48
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.14	0.48
48:BQ:60:ARG:CZ	48:BQ:60:ARG:HB2	2.43	0.48
1:CA:555:C:OP1	12:CL:20:LYS:HE2	2.14	0.48
52:BU:110:VAL:HG12	52:BU:114:LYS:CD	2.39	0.48
54:BW:17:VAL:O	54:BW:20:VAL:HG22	2.14	0.48
4:CD:18:LYS:HE2	4:CD:20:TYR:CE1	2.42	0.48
36:DA:955:C:OP2	48:DQ:14:ARG:HD2	2.13	0.48
1:CA:715:A:H2'	1:CA:716:A:C8	2.48	0.48
35:D9:29:ASN:HD21	35:D9:32:HIS:CG	2.31	0.48
56:BY:3:VAL:HG12	56:BY:3:VAL:O	2.13	0.48
13:AM:4:ILE:O	13:AM:5:ALA:C	2.51	0.48
12:CL:86:ARG:NH2	12:CL:99:HIS:CD2	2.81	0.48
34:D8:41:ILE:HG13	34:D8:42:ARG:N	2.28	0.48
31:D5:44:THR:HG22	31:D5:45:VAL:N	2.28	0.48
43:DH:29:PRO:HD2	43:DH:79:VAL:O	2.13	0.48
22:CV:16:U:H4'	22:CV:16:U:OP1	2.13	0.48
36:BA:1794:U:H2'	36:BA:1795:C:C6	2.49	0.48
36:BA:389:G:N1	47:BP:71:VAL:HG12	2.28	0.48
46:BO:14:THR:CG2	46:BO:86:ILE:HD13	2.43	0.48
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.14	0.48
36:DA:2117:A:N6	36:DA:2171:A:N6	2.60	0.48
27:B1:45:ASN:HD21	36:BA:2090:G:H21	1.60	0.48
47:DP:108:LYS:HD2	47:DP:108:LYS:N	2.29	0.48
57:DZ:95:PRO:O	57:DZ:127:LYS:HG3	2.13	0.48
1:AA:1060:C:C5	3:AC:2:GLY:HA2	2.49	0.48
1:AA:15:G:H8	1:AA:1396:A:O2'	1.96	0.48
1:CA:1061:G:C2'	1:CA:1062:U:H5'	2.43	0.48
17:CQ:4:LYS:HG3	17:CQ:6:LEU:CD2	2.43	0.48
36:BA:325:G:O2'	36:BA:326:G:H5'	2.14	0.48
34:B8:20:GLY:O	34:B8:57:ARG:HD3	2.13	0.48
49:BR:18:LEU:HD23	49:BR:18:LEU:C	2.34	0.48
2:CB:151:GLY:O	2:CB:153:ARG:N	2.46	0.48
1:AA:311:C:O2'	1:AA:312:C:H5'	2.14	0.48
39:DD:55:GLY:O	39:DD:216:GLY:HA2	2.14	0.48
25:CY:192:LEU:HD12	25:CY:194:THR:CG2	2.43	0.48
1:CA:429:U:H1'	1:CA:430:A:H5"	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:551:G:H2'	36:BA:552:G:H5'	1.95	0.48
1:CA:189(D):C:H1'	1:CA:189(H):G:N2	2.28	0.48
36:DA:1531:C:H2'	36:DA:1532:C:C6	2.48	0.48
13:CM:11:ARG:HG2	13:CM:12:ASN:N	2.28	0.48
11:CK:29:ILE:HB	11:CK:44:SER:CB	2.43	0.48
8:AH:30:ARG:NH1	8:AH:30:ARG:HB3	2.28	0.48
36:BA:2083:G:H2'	36:BA:2084:C:C6	2.47	0.48
2:AB:151:GLY:O	2:AB:153:ARG:N	2.47	0.48
25:CY:443:HIS:CD2	25:CY:450:ILE:HD11	2.49	0.48
15:AO:69:TYR:CZ	15:AO:73:GLU:HG3	2.48	0.48
54:DW:33:ARG:O	54:DW:37:ARG:HB2	2.14	0.48
38:DC:115:VAL:CG2	38:DC:150:ILE:HD11	2.44	0.48
2:CB:185:ILE:HA	2:CB:199:TYR:O	2.14	0.48
36:BA:1858:G:H2'	36:BA:1883:G:N2	2.27	0.48
59:AY:701:FUA:O1	59:AY:701:FUA:C1	2.60	0.48
43:BH:169:VAL:O	43:BH:170:ARG:HG3	2.12	0.48
41:DF:160:ASN:C	41:DF:160:ASN:HD22	2.15	0.48
36:BA:1747(A):G:O2'	36:BA:1748:G:H5''	2.12	0.48
36:BA:2584:U:O4'	36:BA:2584:U:O2	2.31	0.48
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.48	0.48
52:BU:95:LEU:HD12	53:BV:11:GLN:NE2	2.21	0.48
53:BV:4:ILE:HA	53:BV:12:TYR:O	2.13	0.48
36:BA:2732:G:H3'	36:BA:2733:A:C5'	2.42	0.48
57:BZ:119:GLU:C	57:BZ:121:HIS:H	2.16	0.48
41:DF:10:PRO:HB3	41:DF:127:GLU:HG2	1.94	0.48
31:B5:56:LYS:CG	31:B5:57:VAL:N	2.69	0.48
36:DA:1599:C:H2'	36:DA:1600:C:H6	1.79	0.48
53:DV:19:LYS:HZ3	53:DV:20:LEU:N	2.10	0.48
13:CM:66:LEU:O	13:CM:67:GLU:O	2.31	0.48
36:BA:2206:G:N2	36:BA:2207:G:H5'	2.28	0.48
40:DE:111:ARG:HD2	40:DE:160:TYR:CE2	2.49	0.48
47:BP:106:LEU:HD11	47:BP:112:LEU:CD2	2.42	0.48
25:AY:408:VAL:HG21	25:AY:660:ARG:HH22	1.77	0.48
31:B5:3:LYS:HZ1	36:BA:2613:U:C2'	2.26	0.48
20:AT:43:LEU:O	20:AT:46:GLU:N	2.46	0.48
36:DA:2297:C:O2'	36:DA:2298:A:H5'	2.14	0.48
39:DD:26:LYS:HE2	39:DD:26:LYS:CA	2.43	0.48
36:DA:1822:G:H2'	36:DA:1823:G:H8	1.78	0.48
34:D8:49:VAL:O	34:D8:53:PRO:HG3	2.13	0.48
34:D8:59:LYS:HE3	34:D8:59:LYS:HB2	1.65	0.48
2:CB:17:PHE:CD1	2:CB:18:GLY:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:51:PHE:CD1	40:DE:52:LEU:N	2.81	0.48
56:DY:47:LYS:HA	56:DY:60:PHE:CD1	2.49	0.48
55:DX:26:TYR:OH	55:DX:88:LYS:HB2	2.13	0.48
36:BA:2223:G:C2'	36:BA:2224:G:H5'	2.44	0.48
25:CY:131:PRO:CG	25:CY:281:PRO:HG3	2.40	0.48
26:D0:19:LYS:CD	26:D0:41:ARG:HH22	2.25	0.48
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.33	0.48
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.33	0.48
54:DW:20:VAL:O	54:DW:23:LEU:N	2.46	0.48
57:DZ:121:HIS:HB3	57:DZ:171:ILE:HA	1.95	0.48
36:DA:1877:A:H5'	36:DA:1878:G:OP2	2.13	0.48
36:DA:1436:G:O2'	36:DA:1437:C:H5'	2.13	0.48
36:DA:654(M):C:O2'	36:DA:654(N):G:C8	2.59	0.48
39:BD:72:LYS:HE2	39:BD:101:GLU:OE1	2.13	0.48
1:AA:1301:U:H3'	1:AA:1302:U:C5'	2.43	0.48
19:AS:41:VAL:C	19:AS:43:GLU:N	2.65	0.48
19:AS:61:TYR:CG	19:AS:62:ILE:N	2.81	0.48
36:DA:727:A:H3'	36:DA:728:G:C8	2.48	0.48
54:BW:50:VAL:HG11	54:BW:103:ILE:CG2	2.44	0.48
49:DR:78:LYS:O	49:DR:83:ILE:HG12	2.13	0.48
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.43	0.48
23:AW:56:C:C6	23:AW:56:C:OP1	2.67	0.48
36:BA:216:A:C4	36:BA:432:A:C2	3.02	0.48
36:BA:2617:C:C2'	36:BA:2618:G:H5'	2.43	0.48
37:BB:89:G:C6	37:BB:90:A:C2	3.01	0.48
37:BB:96:U:H2'	37:BB:97:G:H8	1.76	0.48
2:CB:77:ALA:O	2:CB:78:GLN:C	2.51	0.48
25:AY:204:GLU:O	25:AY:205:TYR:C	2.51	0.48
56:BY:88:LYS:HD2	56:BY:88:LYS:N	2.28	0.48
36:DA:782:A:N3	39:DD:226:MET:HG2	2.28	0.48
48:BQ:87:LYS:CG	48:BQ:88:GLY:H	2.27	0.48
29:B3:44:ARG:O	29:B3:46:ASN:N	2.46	0.48
36:DA:299:A:H5'	56:DY:97:ARG:NE	2.28	0.48
53:DV:25:LEU:H	53:DV:92:THR:CG2	2.26	0.48
36:BA:557:U:H2'	36:BA:558:G:C8	2.48	0.48
57:DZ:127:LYS:CB	57:DZ:127:LYS:NZ	2.76	0.48
36:BA:20:C:O2'	36:BA:21:A:H5'	2.13	0.48
1:CA:1166:G:H5'	1:CA:1168:A:OP2	2.14	0.48
26:B0:5:LYS:HB2	48:BQ:80:GLU:O	2.14	0.48
1:AA:398:C:O5'	1:AA:398:C:H6	1.96	0.48
2:AB:63:MET:HG3	2:AB:63:MET:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.48	0.48
36:BA:1711:C:O2'	36:BA:1712:C:H5'	2.13	0.48
35:B9:9:ARG:NH2	35:B9:16:VAL:HG23	2.28	0.48
56:DY:91:GLU:O	56:DY:92:ASN:HB2	2.13	0.48
36:BA:2124:G:H1'	38:BC:43:GLU:OE1	2.13	0.48
36:BA:1949:G:H2'	36:BA:1950:G:C8	2.49	0.48
44:DJ:31:UNK:O	44:DJ:32:UNK:CB	2.61	0.48
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.28	0.48
36:DA:465:G:C6	36:DA:466:A:N6	2.81	0.48
25:CY:468:ARG:NH1	25:CY:468:ARG:HB2	2.29	0.48
47:BP:135:LEU:HD13	47:BP:135:LEU:O	2.13	0.48
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.81	0.48
36:BA:2372:G:O2'	36:BA:2373:G:H5'	2.14	0.48
22:CV:35:A:C2	24:CX:18:C:C2	3.01	0.48
25:AY:124:GLN:HE21	25:AY:124:GLN:HB2	1.51	0.48
25:AY:100:VAL:CG2	25:AY:374:LEU:HD21	2.43	0.48
25:AY:73:PHE:HE1	25:AY:78:ARG:HB2	1.77	0.48
52:BU:109:LEU:O	52:BU:112:ARG:HB2	2.13	0.48
52:BU:83:LEU:CD1	52:BU:83:LEU:H	2.27	0.48
47:DP:30:THR:O	47:DP:33:ARG:N	2.38	0.48
2:AB:82:ARG:NH1	2:AB:92:TYR:OH	2.46	0.48
52:DU:109:LEU:O	52:DU:112:ARG:HB2	2.14	0.48
52:DU:90:VAL:HG13	53:DV:39:LEU:HG	1.95	0.48
36:BA:1015:G:H2'	36:BA:1016:G:H8	1.79	0.48
36:DA:272(G):C:H42	36:DA:363(C):G:H1	1.61	0.48
25:CY:646:PHE:O	25:CY:647:VAL:HG13	2.13	0.48
25:CY:670:VAL:CG2	25:CY:671:MET:H	2.26	0.48
25:AY:384:ILE:O	25:AY:385:THR:C	2.51	0.48
28:D2:53:LEU:O	28:D2:57:ILE:HG12	2.13	0.48
45:BN:133:GLN:CG	45:BN:134:ARG:H	2.25	0.48
34:D8:50:LEU:HD12	34:D8:51:ALA:N	2.22	0.48
2:CB:20:GLU:CG	2:CB:189:ASP:OD2	2.62	0.48
9:CI:8:GLY:O	9:CI:9:ARG:HG3	2.12	0.48
51:BT:11:GLU:O	51:BT:14:TYR:HE1	1.97	0.48
36:DA:287:C:H2'	36:DA:288:C:H6	1.79	0.48
23:AW:49:G:H3'	23:AW:50:U:H5''	1.96	0.48
3:CC:112:SER:CB	3:CC:115:LEU:HD12	2.39	0.48
13:CM:78:ILE:HA	13:CM:81:LEU:HD23	1.95	0.48
36:BA:1799:G:N2	36:BA:1818:U:H2'	2.27	0.48
52:DU:49:HIS:C	52:DU:52:ARG:HB2	2.34	0.48
9:CI:93:ARG:C	9:CI:95:LYS:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:11:A:H2'	23:CW:12:G:H8	1.76	0.48
22:AV:50:U:O2'	22:AV:51:U:H5'	2.13	0.48
48:BQ:52:VAL:O	48:BQ:54:MET:N	2.47	0.48
36:DA:1326:U:H2'	36:DA:1327:C:H6	1.78	0.48
9:AI:95:LYS:NZ	9:AI:96:LEU:HD12	2.28	0.48
36:DA:281:G:N2	36:DA:358:U:C5	2.82	0.48
36:BA:2689:U:H4'	36:BA:2690:C:OP2	2.13	0.48
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.29	0.48
56:DY:2:ARG:C	56:DY:4:LYS:H	2.17	0.48
35:D9:34:GLN:O	35:D9:35:ARG:CB	2.59	0.48
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.14	0.48
31:D5:44:THR:HG22	31:D5:45:VAL:H	1.79	0.48
39:BD:218:ARG:HG3	39:BD:218:ARG:HH11	1.79	0.48
36:BA:2794:C:N4	36:BA:2801(A):A:H61	2.09	0.48
36:DA:847:U:OP2	36:DA:928:G:O6	2.32	0.48
36:DA:2498:C:O2'	36:DA:2499:C:H5'	2.14	0.48
36:BA:2075:U:C2'	36:BA:2076:U:H5''	2.43	0.48
22:AV:68:C:H2'	22:AV:69:G:H8	1.76	0.48
36:DA:910:A:H62	48:DQ:12:GLN:HA	1.79	0.48
46:DO:14:THR:HB	46:DO:86:ILE:HD13	1.95	0.48
41:BF:4:VAL:HG22	41:BF:19:GLU:OE1	2.14	0.48
36:BA:1048:A:H3'	36:BA:1049:C:H5'	1.96	0.48
57:BZ:108:PRO:HB3	57:BZ:141:VAL:CG1	2.44	0.48
40:BE:104:VAL:HG22	40:BE:198:VAL:HG22	1.96	0.48
42:DG:125:PHE:CZ	42:DG:173:LEU:HD12	2.49	0.48
36:DA:64:A:H2'	36:DA:65:C:O4'	2.14	0.48
3:AC:129:ALA:HB3	3:AC:132:ARG:HB3	1.96	0.48
33:B7:25:PRO:HB3	33:B7:28:ARG:NH2	2.28	0.48
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.14	0.48
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.44	0.48
36:BA:1651:G:C2	36:BA:2007:C:C2	3.02	0.48
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.16	0.48
36:BA:30:G:O2'	36:BA:31:C:H5'	2.13	0.48
55:DX:40:LYS:HG3	55:DX:51:VAL:CG2	2.44	0.48
39:BD:96:HIS:CE1	39:BD:102:LYS:HE2	2.49	0.48
36:DA:1635:G:N2	36:DA:1636:C:C2	2.81	0.48
36:BA:1415:U:H3	36:BA:1587:A:H61	1.61	0.48
36:BA:1770:G:C2'	36:BA:1771:C:H5'	2.44	0.48
47:DP:135:LEU:HD13	47:DP:135:LEU:O	2.13	0.48
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.78	0.48
48:DQ:139:GLU:OE2	57:DZ:99:TYR:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2647:U:H2'	36:BA:2648:C:C6	2.48	0.48
36:BA:706:A:H2'	36:BA:707:G:O4'	2.13	0.48
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.66	0.48
42:DG:111:LEU:O	42:DG:114:ILE:HG13	2.13	0.48
25:CY:92:ILE:HD13	25:CY:92:ILE:C	2.34	0.48
25:AY:345:THR:HG21	25:AY:387:ASP:OD1	2.14	0.48
36:DA:1885:A:C8	36:DA:1885:A:H5'	2.42	0.48
36:DA:2009:G:O2'	36:DA:2010:G:H5'	2.14	0.48
29:D3:15:TYR:H	29:D3:15:TYR:HD1	1.58	0.48
36:DA:2291:U:O2'	36:DA:2292:C:H5'	2.13	0.48
49:BR:29:LEU:HB3	49:BR:75:LEU:HD11	1.95	0.48
13:AM:66:LEU:O	13:AM:67:GLU:O	2.32	0.48
28:D2:10:LEU:O	28:D2:14:ARG:HG2	2.14	0.48
55:DX:8:ILE:N	55:DX:8:ILE:CD1	2.75	0.48
56:BY:73:ARG:O	56:BY:74:PRO:O	2.31	0.48
31:D5:3:LYS:NZ	36:DA:2613:U:O2'	2.45	0.48
45:DN:18:ALA:O	45:DN:21:LYS:N	2.46	0.48
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.95	0.48
36:DA:626:U:O2	47:DP:105:LEU:HG	2.13	0.48
47:DP:107:LYS:HG3	47:DP:107:LYS:O	2.14	0.48
36:DA:2687:U:C4	36:DA:2688:U:C5	3.01	0.48
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.49	0.48
1:AA:192:U:O3'	20:AT:57:ARG:HD2	2.14	0.48
36:BA:797:C:H2'	36:BA:798:G:C8	2.48	0.48
36:DA:2811:G:N2	36:DA:2891:G:H1'	2.27	0.48
31:D5:48:GLU:O	31:D5:49:CYS:CB	2.61	0.48
37:DB:103:G:H5''	37:DB:104:U:OP2	2.14	0.48
40:BE:52:LEU:O	40:BE:74:PRO:HA	2.13	0.48
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.96	0.48
36:DA:1542:A:C8	36:DA:1542:A:H3'	2.49	0.48
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.96	0.48
23:CW:31:G:H5'	23:CW:31:G:C8	2.45	0.48
16:CP:33:ILE:HG22	16:CP:33:ILE:O	2.14	0.48
23:CW:2:G:H1	23:CW:71:C:N4	2.07	0.48
51:DT:11:GLU:O	51:DT:14:TYR:HE1	1.97	0.48
10:CJ:61:GLU:HG3	14:CN:58:LYS:HZ3	1.79	0.48
45:DN:129:PRO:O	45:DN:130:HIS:CB	2.58	0.48
2:CB:108:ILE:O	2:CB:111:ARG:HB2	2.14	0.48
36:DA:9:U:H5	36:DA:2629:A:N6	2.06	0.48
48:BQ:50:ALA:O	48:BQ:51:ARG:C	2.51	0.48
4:AD:11:LEU:O	4:AD:12:CYS:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.71	0.48
25:AY:273:LEU:HA	25:AY:276:VAL:HG23	1.96	0.48
1:CA:624:C:H2'	1:CA:625:G:H8	1.78	0.48
36:BA:280:C:N4	36:BA:360:G:H1	2.12	0.48
36:DA:2389:G:H5''	36:DA:2390:U:C5'	2.40	0.48
36:BA:86:C:H2'	36:BA:87:C:C6	2.48	0.48
5:AE:64:ARG:NH1	5:AE:64:ARG:HG3	2.23	0.48
49:BR:117:VAL:HG12	49:BR:118:GLU:N	2.28	0.48
36:DA:2689:U:H4'	36:DA:2690:C:OP2	2.13	0.48
56:BY:10:GLY:O	56:BY:27:VAL:HG22	2.12	0.48
40:DE:4:ILE:HD11	40:DE:28:ALA:HB1	1.95	0.48
36:DA:848:G:C2	36:DA:933:A:H1'	2.48	0.48
1:AA:538:G:H2'	1:AA:539:A:C8	2.48	0.48
47:DP:93:GLY:O	47:DP:123:LEU:HB2	2.14	0.48
1:AA:1110:A:H8	1:AA:1110:A:O5'	1.96	0.48
36:DA:2415:G:C2	36:DA:2416:C:C2	3.01	0.48
12:AL:8:ASN:HB2	17:AQ:34:LYS:NZ	2.28	0.48
1:CA:188:C:H2'	1:CA:189:G:H8	1.78	0.48
36:DA:1048:A:H3'	36:DA:1049:C:H5'	1.95	0.48
36:DA:1683:C:H2'	36:DA:1684:C:C6	2.48	0.48
36:BA:1227:G:O2'	36:BA:1228:G:H5'	2.13	0.48
15:AO:56:LEU:O	15:AO:60:VAL:HG23	2.14	0.48
36:DA:1028:A:H2'	36:DA:1029:A:C8	2.48	0.48
2:AB:60:ASP:HB3	2:AB:64:ARG:HH21	1.78	0.48
1:CA:1270:C:H2'	1:CA:1271:G:H8	1.79	0.48
43:BH:136:ILE:HG22	43:BH:136:ILE:O	2.13	0.48
48:BQ:139:GLU:CG	57:BZ:99:TYR:HE2	2.26	0.48
49:DR:63:ARG:HH22	49:DR:77:ARG:HG2	1.78	0.48
56:DY:84:ARG:NH1	56:DY:84:ARG:HG2	2.29	0.48
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	2.13	0.48
37:DB:106:G:O2'	37:DB:107:G:H5'	2.14	0.48
1:AA:867:G:O2'	1:AA:868:C:H5'	2.13	0.48
47:BP:102:ARG:NH1	47:BP:102:ARG:CB	2.76	0.48
40:BE:96:PHE:HA	40:BE:100:GLU:OE1	2.12	0.48
36:DA:1525:G:H2'	36:DA:1526:G:H8	1.79	0.48
36:BA:301:G:H1'	36:BA:302:C:C6	2.48	0.48
45:DN:12:ARG:O	45:DN:50:ASP:HB3	2.14	0.48
36:BA:1405:U:H2'	36:BA:1406:U:C6	2.49	0.48
48:BQ:10:ARG:NH1	48:BQ:10:ARG:HB2	2.28	0.48
36:BA:42:G:H2'	36:BA:42:G:N3	2.29	0.48
1:CA:38:G:C2	1:CA:397:A:C2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:29:ILE:HB	11:AK:44:SER:HB2	1.96	0.48
1:AA:1132:C:N4	1:AA:1133:G:C6	2.81	0.48
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.33	0.48
1:AA:294:U:H2'	1:AA:295:C:C6	2.47	0.48
1:CA:723:U:H5'	1:CA:724:G:OP2	2.13	0.48
36:BA:1573:G:H2'	36:BA:1574:C:H5'	1.94	0.48
41:BF:44:ARG:HG3	41:BF:44:ARG:O	2.13	0.48
25:AY:651:GLU:HG3	25:AY:651:GLU:O	2.14	0.48
1:CA:692:U:O4	11:CK:53:SER:HA	2.13	0.48
25:CY:290:LYS:HB3	25:CY:298:VAL:CG2	2.42	0.48
25:AY:14:ASN:HA	25:AY:80:ASN:O	2.13	0.48
36:DA:2131:G:H8	36:DA:2158:A:N6	2.07	0.48
25:CY:596:LYS:O	25:CY:596:LYS:HG3	2.13	0.48
1:CA:1404:C:H5'	1:CA:1405:G:OP2	2.14	0.48
57:BZ:7:ALA:HB3	57:BZ:61:LEU:CD2	2.44	0.48
34:D8:33:ASN:N	34:D8:33:ASN:ND2	2.25	0.48
32:D6:53:LYS:HE2	36:DA:2398:U:O2'	2.13	0.48
32:B6:7:ILE:N	32:B6:7:ILE:CD1	2.77	0.48
32:B6:10:LEU:HB3	34:B8:34:TRP:CD1	2.48	0.48
53:DV:4:ILE:HA	53:DV:12:TYR:O	2.14	0.48
45:BN:62:VAL:O	45:BN:63:THR:O	2.32	0.48
25:CY:277:VAL:HG13	25:CY:278:ASP:N	2.27	0.48
23:CW:4:G:O2'	23:CW:5:G:C8	2.65	0.48
32:D6:18:ARG:HG3	32:D6:19:ARG:H	1.79	0.48
36:BA:478:A:C6	36:BA:480:A:C6	3.01	0.48
25:AY:438:PHE:C	25:AY:438:PHE:HD1	2.17	0.48
36:DA:604:G:O2'	36:DA:605:C:H5'	2.14	0.48
25:AY:201:ILE:HG21	25:AY:206:LEU:CA	2.43	0.48
36:BA:512:G:O2'	36:BA:513:A:H8	1.96	0.48
1:CA:1442(A):G:N2	51:DT:119:LYS:HA	2.29	0.48
50:DS:103:GLU:O	50:DS:104:GLY:C	2.52	0.48
13:CM:7:VAL:HG12	13:CM:7:VAL:O	2.14	0.48
1:AA:268:C:O2	1:AA:268:C:C2'	2.61	0.48
41:DF:61:GLY:O	41:DF:62:ARG:C	2.51	0.48
36:BA:2787:C:H1'	40:BE:61:ARG:CG	2.43	0.48
47:BP:23:PRO:C	47:BP:33:ARG:CZ	2.81	0.48
2:CB:32:ILE:CD1	2:CB:40:HIS:HB3	2.43	0.48
36:BA:1659:U:O2'	36:BA:1660:C:H5'	2.14	0.48
36:BA:807:U:H2'	36:BA:808:G:C8	2.49	0.48
2:AB:221:LEU:O	2:AB:221:LEU:HD13	2.14	0.48
25:CY:168:ILE:HB	25:CY:176:GLY:C	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.82	0.48
36:BA:1516:C:H2'	36:BA:1517:G:H5'	1.95	0.48
36:BA:1212:G:O2'	36:BA:1236:G:N2	2.47	0.48
42:BG:72:ARG:HB3	42:BG:87:PRO:CD	2.44	0.48
16:AP:33:ILE:HG22	16:AP:33:ILE:O	2.14	0.48
39:DD:266:SER:C	39:DD:267:SER:O	2.51	0.48
7:CG:86:GLN:HE22	23:CW:31:G:H21	1.60	0.48
42:BG:140:ILE:HD12	42:BG:140:ILE:C	2.34	0.48
1:AA:1442:G:C5	1:AA:1442(B):A:C2	3.02	0.48
57:DZ:117:LEU:HD12	57:DZ:174:VAL:HG22	1.95	0.48
4:CD:8:VAL:O	4:CD:10:ARG:N	2.43	0.48
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.43	0.48
57:BZ:79:ARG:O	57:BZ:79:ARG:CG	2.62	0.48
36:DA:2464:C:O2'	36:DA:2465:C:H6	1.95	0.48
36:DA:280:C:H3'	36:DA:281:G:C8	2.49	0.48
49:DR:117:VAL:CG1	49:DR:118:GLU:N	2.76	0.48
1:CA:1298:C:C2'	1:CA:1298:C:O2	2.62	0.48
37:DB:96:U:H2'	37:DB:97:G:H8	1.78	0.48
36:BA:880:G:H1	36:BA:897:C:H42	1.62	0.48
50:BS:59:LYS:HD2	50:BS:61:ASN:HB2	1.96	0.48
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.49	0.48
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.49	0.48
56:BY:42:VAL:HB	56:BY:65:ALA:HB3	1.95	0.48
11:AK:21:ILE:HA	11:AK:30:VAL:HG12	1.95	0.48
33:D7:27:GLY:HA2	33:D7:30:VAL:CG2	2.44	0.48
36:DA:2794:C:H42	36:DA:2801(A):A:N6	2.11	0.48
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.13	0.48
53:BV:34:GLU:HG3	53:BV:56:SER:OG	2.14	0.48
36:BA:848:G:C4	36:BA:933:A:H8	2.32	0.48
1:AA:545:C:H5"	4:AD:72:GLU:HG2	1.96	0.48
46:DO:21:CYS:SG	46:DO:22:ILE:N	2.86	0.48
36:BA:1128:A:C8	36:BA:2518:A:N6	2.82	0.48
21:CU:2:GLY:C	21:CU:4:GLY:N	2.67	0.48
57:BZ:45:ASP:O	57:BZ:49:ARG:CG	2.61	0.48
4:CD:65:ARG:NH1	4:CD:70:ILE:O	2.44	0.48
39:BD:210:GLY:C	39:BD:212:SER:N	2.67	0.48
1:CA:745:C:H2'	1:CA:746:A:C8	2.49	0.48
25:AY:99:ARG:HA	25:AY:128:TYR:CE1	2.49	0.48
36:BA:751:A:C5'	54:BW:90:ARG:HA	2.44	0.48
1:CA:1284:C:H3'	1:CA:1285:A:C5'	2.43	0.48
36:BA:2547:U:H2'	36:BA:2548:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:559:A:P	5:AE:126:ARG:HH22	2.36	0.48
41:DF:65:TRP:CZ3	41:DF:75:HIS:HD2	2.32	0.48
37:BB:54:G:H2'	37:BB:55:U:H6	1.78	0.48
42:DG:152:LEU:HD23	42:DG:152:LEU:N	2.28	0.48
37:DB:68:C:O2'	37:DB:69:G:H5'	2.13	0.48
21:CU:13:ILE:O	21:CU:16:GLY:N	2.46	0.48
36:BA:2494:G:O2'	36:BA:2495:G:H5'	2.14	0.48
44:DJ:136:UNK:C	44:DJ:138:UNK:N	2.73	0.48
44:DJ:157:UNK:C	44:DJ:159:UNK:N	2.76	0.48
36:BA:2402:C:C6	36:BA:2402:C:OP2	2.67	0.48
52:BU:29:SER:OG	52:BU:30:LYS:HE2	2.14	0.48
36:BA:938:G:H2'	36:BA:939:G:H8	1.79	0.48
25:CY:303:PRO:O	25:CY:305:PRO:HD3	2.13	0.48
39:BD:187:GLY:C	39:BD:189:CYS:H	2.16	0.48
15:CO:10:LYS:HD2	15:CO:10:LYS:O	2.13	0.48
36:BA:2539:C:O2	36:BA:2539:C:H2'	2.14	0.48
42:BG:18:GLU:OE1	42:BG:18:GLU:HA	2.13	0.48
38:DC:101:ILE:HG23	38:DC:128:LEU:CD2	2.41	0.48
1:AA:1503:A:N1	24:AX:11:A:N3	2.60	0.48
36:BA:1884:A:C3'	36:BA:1885:A:H5''	2.44	0.48
25:AY:15:ILE:HD13	25:AY:17:ILE:HD11	1.95	0.48
25:AY:374:LEU:HD12	25:AY:374:LEU:N	2.29	0.48
41:DF:160:ASN:CG	41:DF:163:VAL:HG23	2.34	0.48
25:CY:211:GLU:HG3	25:CY:212:TYR:CD2	2.48	0.48
36:DA:2131:G:C8	36:DA:2158:A:N6	2.81	0.48
30:B4:26:SER:HB3	42:BG:105:LYS:NZ	2.29	0.48
56:DY:13:VAL:O	56:DY:24:VAL:HA	2.14	0.48
56:BY:13:VAL:O	56:BY:24:VAL:HG13	2.13	0.48
52:DU:90:VAL:O	52:DU:91:ASP:C	2.52	0.48
25:AY:644:ARG:O	25:AY:645:ALA:HB2	2.14	0.48
32:B6:48:VAL:CG2	32:B6:49:HIS:N	2.76	0.48
45:DN:26:LEU:C	45:DN:28:THR:H	2.16	0.48
39:BD:35:LYS:O	39:BD:37:LEU:HB2	2.13	0.48
36:DA:2720:U:C2	36:DA:2721:A:C8	3.02	0.48
25:CY:629:GLY:HA3	25:CY:647:VAL:HG12	1.96	0.48
25:CY:669:PHE:CE2	25:CY:671:MET:HB2	2.48	0.48
25:AY:223:PHE:HZ	25:AY:255:ILE:HG22	1.78	0.48
36:DA:1244:G:O2'	36:DA:1245:G:H5'	2.13	0.48
36:DA:2867:G:C5	51:DT:23:ARG:NH1	2.81	0.48
51:DT:107:ASP:CG	51:DT:108:ARG:H	2.15	0.48
36:BA:795:C:H2'	36:BA:796:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1902:C:H2'	36:BA:1903:G:O4'	2.13	0.48
53:DV:62:LEU:N	53:DV:62:LEU:HD22	2.28	0.48
20:CT:43:LEU:O	20:CT:46:GLU:N	2.47	0.48
45:DN:133:GLN:O	45:DN:134:ARG:CB	2.62	0.48
36:DA:2887:U:H2'	36:DA:2888:C:C6	2.49	0.48
36:BA:2887:U:H2'	36:BA:2888:C:C6	2.49	0.48
23:AW:72:A:O2'	23:AW:73:A:O5'	2.21	0.48
36:DA:661:C:O2'	47:DP:16:ARG:O	2.29	0.48
51:DT:35:LYS:HZ3	51:DT:41:ARG:HH11	1.61	0.48
36:DA:1236:G:O2'	36:DA:1237:A:H8	1.73	0.48
36:BA:2304:G:OP1	42:BG:124:SER:HB2	2.13	0.48
18:AR:59:SER:N	18:AR:62:GLU:HB2	2.23	0.48
43:DH:84:SER:OG	43:DH:85:LYS:N	2.46	0.48
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.14	0.48
1:AA:184:G:O2'	1:AA:185:A:H5'	2.13	0.48
39:DD:79:VAL:HG21	39:DD:111:LEU:HD11	1.95	0.48
1:CA:184:G:O2'	1:CA:185:A:H5'	2.14	0.48
39:BD:112:GLN:O	39:BD:115:GLN:HB2	2.13	0.48
36:DA:1775:U:O2'	36:DA:1776:G:H5'	2.14	0.48
39:DD:261:LYS:NZ	39:DD:263:ARG:HH22	2.12	0.48
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.43	0.48
13:AM:58:GLU:O	13:AM:62:ASN:HB2	2.14	0.48
1:AA:1298:C:C2'	1:AA:1298:C:O2	2.61	0.48
40:BE:55:ASN:O	40:BE:57:LYS:N	2.41	0.48
40:BE:63:LEU:O	40:BE:64:LYS:C	2.51	0.48
19:AS:58:VAL:O	19:AS:59:PRO:C	2.52	0.48
50:BS:49:VAL:CG1	50:BS:50:SER:H	2.25	0.48
35:B9:22:ARG:NH2	36:BA:2741:A:OP1	2.47	0.48
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.94	0.48
36:BA:2023:G:H4'	36:BA:2617:C:O3'	2.13	0.48
36:BA:1675:C:O2	40:BE:129:HIS:HA	2.14	0.48
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.61	0.48
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.49	0.48
40:BE:174:ASP:OD1	40:BE:175:VAL:N	2.46	0.48
40:BE:81:ILE:O	40:BE:81:ILE:CG2	2.62	0.48
4:CD:157:LEU:HG	4:CD:161:ASN:HD21	1.78	0.48
12:AL:78:GLN:O	12:AL:79:GLU:C	2.52	0.48
46:BO:24:VAL:HG21	46:BO:30:ALA:HB3	1.95	0.48
1:AA:218:C:H5'	1:AA:470:C:N4	2.28	0.48
56:DY:95:LYS:CD	56:DY:101:LYS:H	2.27	0.48
36:BA:271(E):U:H3	36:BA:271(S):G:H1	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:71:VAL:N	47:DP:72:PRO:CD	2.77	0.48
36:DA:1639:U:H2'	36:DA:1640:C:H5''	1.96	0.48
27:D1:7:ILE:HG22	27:D1:66:HIS:CD2	2.49	0.48
48:BQ:136:ALA:C	48:BQ:138:ASP:N	2.66	0.48
42:DG:107:LEU:HD11	42:DG:178:PHE:CD1	2.48	0.48
22:CV:17:C:O2'	22:CV:18:G:P	2.72	0.48
36:BA:809:G:O2'	36:BA:810:U:H5'	2.13	0.48
36:DA:425:G:H2'	36:DA:426:C:H6	1.78	0.48
36:BA:1270:C:H5''	36:BA:1271:G:H5'	1.94	0.48
36:BA:2369:A:O2'	36:BA:2370:G:H5'	2.14	0.48
2:AB:69:LEU:HD11	2:AB:93:VAL:HG23	1.95	0.48
5:AE:20:GLN:NE2	5:AE:25:ARG:NH2	2.61	0.48
1:CA:636:U:H2'	1:CA:637:G:H8	1.79	0.48
44:BJ:6:UNK:O	44:BJ:8:UNK:N	2.47	0.48
1:CA:342:C:C2'	1:CA:343:U:H5'	2.44	0.48
40:DE:144:ARG:O	40:DE:145:LYS:C	2.52	0.48
7:AG:26:PHE:CE2	7:AG:30:ILE:HD11	2.49	0.48
36:DA:1770:G:C2'	36:DA:1771:C:H5'	2.44	0.48
38:DC:98:GLU:HA	38:DC:101:ILE:HD13	1.96	0.48
23:AW:34:C:O2'	23:AW:35:A:O5'	2.30	0.48
36:DA:615:G:OP1	41:DF:182:ASN:HB3	2.14	0.48
25:AY:115:GLU:CD	25:AY:118:SER:HB3	2.35	0.48
25:AY:120:THR:O	25:AY:124:GLN:CD	2.52	0.48
36:BA:2531:A:H4'	43:BH:157:TYR:CD2	2.49	0.48
41:BF:160:ASN:CG	41:BF:163:VAL:HG23	2.34	0.48
25:CY:170:ARG:HH22	25:CY:208:GLN:HE22	1.62	0.48
56:DY:96:ILE:CG2	56:DY:99:CYS:HB3	2.43	0.48
36:BA:2733:A:H2'	36:BA:2734:A:O4'	2.13	0.48
41:DF:8:GLN:HG2	41:DF:126:VAL:HG12	1.95	0.48
29:B3:31:LEU:O	29:B3:32:GLN:CB	2.62	0.48
31:B5:56:LYS:O	31:B5:57:VAL:O	2.31	0.48
41:BF:127:GLU:HB2	41:BF:196:LEU:HD11	1.95	0.48
45:BN:18:ALA:O	45:BN:21:LYS:N	2.46	0.48
36:DA:2290:G:H4'	36:DA:2381:C:O2'	2.14	0.48
36:BA:2287:A:N6	36:BA:2344:U:N3	2.54	0.48
36:DA:478:A:C6	36:DA:480:A:C6	3.02	0.48
36:DA:2056:G:N2	36:DA:2057:A:C4	2.82	0.48
36:BA:651:G:O2'	36:BA:652:C:H5'	2.14	0.48
36:BA:626:U:O2	47:BP:105:LEU:HG	2.14	0.48
39:DD:35:LYS:N	39:DD:36:PRO:HD2	2.28	0.48
25:AY:495:GLY:O	25:AY:510:VAL:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:26:LYS:O	39:DD:27:THR:CB	2.61	0.48
3:CC:206:GLU:CG	3:CC:207:VAL:H	2.09	0.48
36:DA:833:U:H2'	36:DA:834:C:C6	2.48	0.48
13:AM:22:ILE:HD12	13:AM:22:ILE:N	2.29	0.48
1:AA:1029:C:O2'	1:AA:1032:G:N2	2.46	0.48
36:DA:1528:A:N1	36:DA:1542:A:H2	2.11	0.48
36:BA:482:A:H1'	36:BA:498:G:N2	2.29	0.48
1:CA:973:G:C3'	1:CA:974:A:H5''	2.41	0.48
13:AM:118:ALA:HB3	13:AM:120:LYS:HE3	1.94	0.48
39:DD:267:SER:HA	39:DD:270:ILE:HD11	1.95	0.48
22:AV:61:C:H2'	22:AV:62:C:C6	2.46	0.48
51:BT:3:ARG:O	51:BT:4:GLY:C	2.51	0.48
42:BG:117:PHE:HE1	42:BG:120:LEU:N	2.12	0.48
43:DH:85:LYS:O	43:DH:85:LYS:HD3	2.13	0.48
1:AA:101:A:HO2'	1:AA:102:G:H5'	1.78	0.48
23:CW:71:C:H2'	23:CW:72:A:H8	1.79	0.48
20:CT:93:GLU:N	20:CT:93:GLU:OE1	2.46	0.48
36:BA:1437:C:H2'	36:BA:1438:U:C6	2.49	0.48
9:CI:95:LYS:NZ	9:CI:96:LEU:HD13	2.27	0.48
9:AI:79:LEU:HD13	9:AI:79:LEU:C	2.34	0.48
36:DA:1773:A:H2	36:DA:1977:A:N1	2.11	0.48
34:D8:60:LEU:C	34:D8:63:PRO:HD2	2.34	0.48
34:D8:61:LEU:N	34:D8:63:PRO:HD2	2.28	0.48
46:BO:98:VAL:O	46:BO:98:VAL:HG23	2.14	0.48
36:DA:11:G:N2	36:DA:2628:C:OP1	2.47	0.48
36:DA:870:A:C2	36:DA:871:U:H1'	2.49	0.48
36:DA:2469:A:O3'	48:DQ:56:ARG:NH1	2.47	0.48
37:DB:89:G:C6	37:DB:90:A:C2	3.01	0.48
31:B5:44:THR:HG22	31:B5:45:VAL:H	1.79	0.48
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.49	0.48
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.13	0.48
36:BA:729:G:H2'	36:BA:1775:U:O2	2.13	0.48
56:BY:27:VAL:HG12	56:BY:29:GLU:H	1.78	0.48
40:DE:184:VAL:O	40:DE:186:GLY:N	2.42	0.48
1:CA:491:G:H2'	1:CA:492:G:C8	2.45	0.48
1:AA:1271:G:H2'	1:AA:1272:G:H8	1.79	0.48
36:DA:2170:A:H5''	38:DC:135:ARG:HE	1.79	0.48
48:DQ:12:GLN:NE2	48:DQ:73:PRO:HD2	2.25	0.48
3:CC:25:GLY:C	3:CC:27:LYS:N	2.65	0.48
47:BP:13:ASN:O	47:BP:14:LYS:CB	2.62	0.48
13:AM:14:ARG:CZ	13:AM:42:ALA:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:42:VAL:HG21	38:BC:186:LEU:CD2	2.44	0.48
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.44	0.48
36:BA:2705:A:H2'	36:BA:2706:G:O4'	2.14	0.48
38:BC:74:ARG:HG2	38:BC:74:ARG:NH1	2.28	0.48
1:AA:636:U:H2'	1:AA:637:G:H8	1.78	0.48
36:BA:324:A:O2'	36:BA:325:G:H5'	2.14	0.48
49:DR:18:LEU:HD23	49:DR:18:LEU:C	2.35	0.48
36:BA:1655:A:H4'	40:BE:115:GLY:H	1.78	0.48
1:AA:883:C:O2'	1:AA:884:U:H5'	2.14	0.48
36:DA:2488:A:O2'	36:DA:2489:G:H5'	2.14	0.48
49:BR:48:VAL:O	49:BR:49:ASP:C	2.51	0.48
36:DA:1344:G:H4'	36:DA:1384:A:C5	2.49	0.48
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.29	0.48
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.14	0.48
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.13	0.48
20:CT:73:HIS:O	20:CT:74:LYS:C	2.52	0.48
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	1.95	0.48
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.48
36:DA:768:G:H2'	36:DA:769:G:C8	2.49	0.47
36:BA:2658:C:C2'	36:BA:2659:G:H5'	2.43	0.47
36:BA:2732:G:H5''	36:BA:2733:A:C8	2.49	0.47
57:DZ:56:VAL:HG13	57:DZ:69:THR:O	2.13	0.47
36:DA:2282:G:H5''	36:DA:2283:C:O4'	2.14	0.47
25:AY:486:THR:HG23	25:AY:600:VAL:HG13	1.94	0.47
36:DA:996:A:O3'	52:DU:92:ARG:HG3	2.14	0.47
36:DA:1278:A:H4'	49:DR:34:ILE:CG2	2.44	0.47
32:D6:14:THR:HG23	32:D6:50:ARG:HG2	1.96	0.47
25:AY:406:GLU:CB	25:AY:407:PRO:CD	2.92	0.47
47:DP:83:VAL:H	47:DP:115:LEU:HD21	1.79	0.47
36:BA:2205:C:O2	36:BA:2205:C:H2'	2.12	0.47
40:DE:120:TRP:O	40:DE:121:ASN:C	2.52	0.47
25:AY:210:ARG:O	25:AY:211:GLU:C	2.52	0.47
25:AY:230:LYS:NZ	25:AY:230:LYS:CB	2.76	0.47
25:AY:253:LEU:N	25:AY:253:LEU:HD12	2.29	0.47
36:BA:2307:G:C2	36:BA:2308:G:H5''	2.49	0.47
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.14	0.47
36:DA:1495:A:N3	36:DA:1496:A:C2	2.82	0.47
1:AA:194:C:C2'	1:AA:195:A:H5''	2.42	0.47
36:BA:2190:G:O2'	36:BA:2191:G:H5'	2.14	0.47
36:BA:833:U:H2'	36:BA:834:C:C6	2.49	0.47
36:DA:1485:G:N3	36:DA:1505:C:N3	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:57:PHE:CG	51:BT:58:ASN:N	2.82	0.47
36:DA:595:C:H42	36:DA:662:G:H1	1.61	0.47
39:BD:26:LYS:O	39:BD:27:THR:CB	2.62	0.47
36:DA:481:G:OP2	56:DY:47:LYS:HD3	2.14	0.47
16:AP:22:THR:OG1	16:AP:23:ASP:N	2.47	0.47
10:AJ:54:PHE:CD1	10:AJ:55:LYS:HE3	2.49	0.47
25:AY:35:TYR:HH	25:AY:266:ASN:HB3	1.73	0.47
36:DA:287:C:H2'	36:DA:288:C:C6	2.49	0.47
12:CL:81:SER:O	12:CL:83:VAL:HG23	2.14	0.47
22:AV:18:G:C5	22:AV:57:G:O6	2.66	0.47
1:CA:779:C:O2'	1:CA:780:A:H5'	2.14	0.47
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.29	0.47
46:BO:13:ASN:HD21	46:BO:97:ARG:CG	2.27	0.47
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.49	0.47
36:BA:1220:A:H3'	36:BA:1221:C:C5'	2.41	0.47
37:DB:87:G:C2'	37:DB:88:C:H5''	2.44	0.47
46:DO:98:VAL:HG23	46:DO:98:VAL:O	2.14	0.47
23:AW:56:C:C2'	23:AW:56:C:O2	2.59	0.47
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.14	0.47
36:DA:1668:A:N6	36:DA:1676:A:H61	2.11	0.47
36:DA:2118:U:H5	36:DA:2148:G:HO2'	1.62	0.47
37:BB:87:G:H2'	37:BB:88:C:H5''	1.95	0.47
12:AL:89:ARG:HD3	12:AL:91:LYS:HZ1	1.75	0.47
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.26	0.47
1:CA:538:G:H2'	1:CA:539:A:C8	2.49	0.47
36:BA:2415:G:C2	36:BA:2416:C:C2	3.02	0.47
1:CA:781:A:H2'	1:CA:782:A:H5'	1.94	0.47
36:BA:271(Z):C:H2'	36:BA:272:G:C8	2.48	0.47
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.96	0.47
16:CP:9:PHE:CE2	16:CP:18:ARG:NE	2.82	0.47
26:D0:49:LYS:HG3	26:D0:80:HIS:ND1	2.28	0.47
36:DA:271(E):U:H3	36:DA:271(S):G:H1	1.62	0.47
25:AY:497:PHE:O	25:AY:498:ILE:O	2.32	0.47
49:DR:63:ARG:NH2	49:DR:77:ARG:HG2	2.28	0.47
47:BP:110:TYR:CE2	47:BP:111:ARG:NH1	2.81	0.47
36:DA:2850:A:H2	49:DR:61:HIS:CD2	2.32	0.47
3:AC:60:ALA:O	3:AC:61:ALA:CB	2.62	0.47
36:DA:460:A:H2'	36:DA:461:C:O4'	2.13	0.47
36:DA:1119:C:H2'	36:DA:1120:G:H8	1.79	0.47
43:BH:105:LEU:HD23	43:BH:113:VAL:O	2.14	0.47
36:BA:750:A:H3'	36:BA:751:A:H5''	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:161:GLY:O	40:DE:162:ALA:C	2.52	0.47
53:BV:13:ARG:HG3	53:BV:13:ARG:HH11	1.78	0.47
1:CA:333:G:O2'	1:CA:334:C:H5'	2.13	0.47
55:BX:26:TYR:CE2	55:BX:89:ILE:HB	2.49	0.47
30:D4:22:ILE:CG2	30:D4:23:GLU:N	2.76	0.47
36:DA:824:A:H1'	36:DA:2358:G:N7	2.29	0.47
50:BS:25:ARG:HG2	50:BS:26:LEU:H	1.77	0.47
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.44	0.47
57:BZ:55:HIS:O	57:BZ:57:ILE:HD12	2.14	0.47
55:BX:29:TRP:CZ3	55:BX:76:ARG:HB2	2.49	0.47
36:BA:1450(A):C:H2'	36:BA:1451:C:C6	2.48	0.47
6:CF:78:GLU:O	6:CF:81:ILE:HG13	2.14	0.47
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.49	0.47
36:DA:718:A:H2'	36:DA:719:C:O4'	2.14	0.47
36:BA:112:U:C2'	36:BA:113:G:H5'	2.44	0.47
20:AT:73:HIS:O	20:AT:74:LYS:C	2.52	0.47
4:AD:68:TYR:O	4:AD:69:GLY:C	2.52	0.47
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	2.14	0.47
4:CD:58:LEU:C	4:CD:58:LEU:HD23	2.33	0.47
36:BA:2321:G:H2'	36:BA:2321:G:N3	2.29	0.47
36:BA:2062:A:O4'	36:BA:2062:A:N3	2.47	0.47
43:DH:137:ASP:O	43:DH:138:LYS:HB2	2.14	0.47
36:DA:1207:C:H2'	36:DA:1208:C:H6	1.79	0.47
23:CW:34:C:H2'	23:CW:35:A:H5''	1.80	0.47
25:AY:14:ASN:O	25:AY:101:LEU:HB2	2.14	0.47
36:BA:2531:A:OP2	43:BH:176:ALA:HB3	2.14	0.47
1:AA:1316:G:H4'	14:AN:18:VAL:HG12	1.96	0.47
55:DX:14:SER:O	55:DX:17:ALA:HB3	2.13	0.47
1:AA:1347:G:H3'	9:AI:108:VAL:O	2.14	0.47
36:DA:2305:A:H2'	36:DA:2306:C:O4'	2.13	0.47
25:CY:491:VAL:HG13	25:CY:492:ASP:N	2.29	0.47
36:BA:1599:C:H2'	36:BA:1600:C:H6	1.78	0.47
42:BG:101:ILE:O	42:BG:104:GLU:HB3	2.14	0.47
34:D8:34:TRP:HB2	36:DA:2420:C:OP1	2.14	0.47
36:BA:2882:A:H5''	49:BR:98:LEU:HD21	1.95	0.47
36:DA:2287:A:N6	36:DA:2344:U:N3	2.53	0.47
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.42	0.47
25:AY:526:VAL:HB	25:AY:566:THR:CA	2.34	0.47
39:DD:24:ILE:CG1	39:DD:25:THR:N	2.76	0.47
14:CN:15:LYS:O	14:CN:16:PHE:C	2.51	0.47
53:BV:28:GLU:CB	53:BV:31:ALA:HB2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:46:LYS:HG2	47:DP:52:GLU:CG	2.41	0.47
36:BA:1485:G:N3	36:BA:1505:C:N3	2.62	0.47
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.39	0.47
51:BT:129:ARG:HD3	51:BT:129:ARG:C	2.35	0.47
36:BA:1348:G:C3'	36:BA:1349:A:H5'	2.44	0.47
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.97	0.47
42:BG:40:ASN:ND2	42:BG:41:GLN:H	2.11	0.47
51:DT:53:ARG:HH11	51:DT:53:ARG:CB	2.16	0.47
1:AA:1277:C:H2'	1:AA:1278:U:C5'	2.36	0.47
1:AA:423:G:H2'	1:AA:424:G:H5'	1.96	0.47
51:DT:129:ARG:HD3	51:DT:129:ARG:C	2.34	0.47
43:BH:85:LYS:O	43:BH:85:LYS:HD3	2.14	0.47
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.44	0.47
36:BA:544:G:H21	36:BA:547:A:H2'	1.78	0.47
12:CL:70:ILE:HG21	12:CL:77:LEU:HD12	1.95	0.47
31:D5:25:LEU:CD1	54:DW:19:LEU:HB3	2.44	0.47
27:D1:27:GLU:O	27:D1:28:GLY:C	2.52	0.47
19:CS:29:ARG:HD2	19:CS:29:ARG:N	2.28	0.47
19:CS:31:ILE:CG2	19:CS:49:ILE:HA	2.41	0.47
3:CC:119:ARG:O	3:CC:123:GLN:HG3	2.13	0.47
36:BA:281:G:N2	36:BA:358:U:C5	2.81	0.47
39:DD:263:ARG:CB	39:DD:263:ARG:NH1	2.74	0.47
22:AV:19:G:H1	22:AV:56:C:H42	1.62	0.47
36:DA:880:G:H1	36:DA:897:C:H42	1.61	0.47
26:B0:20:ARG:HG2	26:B0:20:ARG:HH11	1.79	0.47
48:DQ:60:ARG:HB2	48:DQ:60:ARG:CZ	2.44	0.47
1:CA:525:C:OP1	12:CL:91:LYS:HE2	2.13	0.47
56:DY:2:ARG:HD3	56:DY:2:ARG:C	2.34	0.47
45:BN:30:ILE:O	45:BN:34:LEU:CD2	2.62	0.47
36:DA:840:C:O2'	36:DA:1192:G:H4'	2.14	0.47
16:AP:28:ARG:HG2	16:AP:29:ASP:OD1	2.14	0.47
36:BA:2747:G:O2'	43:BH:67:LEU:HD12	2.14	0.47
56:BY:4:LYS:HD2	56:BY:32:PRO:HG3	1.95	0.47
45:BN:65:LYS:NZ	45:BN:65:LYS:CB	2.77	0.47
53:DV:35:LEU:C	53:DV:37:VAL:N	2.68	0.47
28:B2:15:LYS:O	28:B2:15:LYS:HG3	2.14	0.47
36:BA:2454:G:O2'	36:BA:2455:G:H5'	2.14	0.47
49:BR:12:ARG:CG	49:BR:12:ARG:HH11	2.27	0.47
29:B3:44:ARG:O	29:B3:45:GLY:C	2.52	0.47
38:BC:176:VAL:HG21	38:BC:190:ILE:CD1	2.44	0.47
28:B2:61:LEU:HA	28:B2:64:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:31:PHE:O	8:AH:34:GLU:HB2	2.15	0.47
53:BV:66:ARG:NH1	53:BV:88:ARG:HE	2.12	0.47
33:B7:38:GLY:O	36:BA:458:G:H2'	2.13	0.47
46:BO:120:GLU:OE2	46:BO:122:LEU:HD21	2.14	0.47
36:DA:302:C:H2'	36:DA:303:U:H6	1.78	0.47
36:DA:1056:G:H4'	36:DA:1086:A:C8	2.50	0.47
4:CD:148:VAL:HG12	4:CD:152:SER:HB2	1.96	0.47
36:BA:2750:A:H2'	36:BA:2752:C:N4	2.29	0.47
6:AF:15:ASP:O	6:AF:17:SER:N	2.48	0.47
26:D0:34:GLY:HA3	36:DA:2353:G:H1'	1.96	0.47
36:BA:1839:G:N3	36:BA:1839:G:H2'	2.29	0.47
42:DG:136:ARG:HH11	42:DG:136:ARG:HG2	1.79	0.47
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.29	0.47
39:BD:134:ARG:HG3	39:BD:135:PHE:CD1	2.49	0.47
36:DA:238:C:H2'	36:DA:239:U:O4'	2.14	0.47
51:DT:137:LYS:HG2	51:DT:138:ALA:N	2.29	0.47
36:DA:2726:U:HO2'	36:DA:2727:G:C5'	2.27	0.47
48:BQ:32:TYR:N	48:BQ:32:TYR:CD1	2.82	0.47
1:AA:692:U:O4	11:AK:53:SER:HA	2.13	0.47
40:DE:152:LYS:HB3	45:DN:78:TYR:HA	1.96	0.47
57:BZ:131:ARG:HH11	57:BZ:131:ARG:HG2	1.79	0.47
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.79	0.47
17:AQ:18:THR:HG23	17:AQ:44:ALA:O	2.14	0.47
15:CO:48:LYS:HD3	15:CO:48:LYS:HA	1.67	0.47
36:BA:1396:U:H2'	36:BA:1396:U:O2	2.13	0.47
42:DG:73:ALA:CB	42:DG:87:PRO:HG3	2.41	0.47
57:BZ:5:LEU:HB3	57:BZ:59:LEU:HD23	1.95	0.47
37:BB:8:U:H5'	37:BB:8:U:H6	1.80	0.47
57:BZ:155:LEU:HD23	57:BZ:155:LEU:H	1.79	0.47
42:BG:97:ASP:O	42:BG:101:ILE:N	2.47	0.47
36:DA:84:A:H2	36:DA:98:G:N3	2.12	0.47
45:BN:58:ASP:OD2	45:BN:59:LYS:HG2	2.14	0.47
10:CJ:49:VAL:HG21	14:CN:41:ARG:O	2.14	0.47
36:DA:2580:U:H4'	40:DE:130:GLY:HA3	1.96	0.47
56:DY:46:LYS:HB2	56:DY:62:GLU:CG	2.45	0.47
13:CM:67:GLU:O	13:CM:69:GLU:N	2.47	0.47
47:DP:100:LEU:HA	47:DP:103:ALA:HB3	1.95	0.47
7:CG:24:THR:O	7:CG:27:ILE:HG22	2.14	0.47
27:B1:76:ARG:NH2	27:B1:95:LEU:HB2	2.30	0.47
39:DD:92:ILE:H	39:DD:92:ILE:HD13	1.78	0.47
45:BN:99:LEU:HD12	45:BN:122:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:13:ARG:HD2	47:DP:61:ARG:HH11	1.79	0.47
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.11	0.47
20:CT:27:LYS:O	20:CT:27:LYS:HD3	2.14	0.47
36:BA:1487:G:H2'	36:BA:1487:G:N3	2.28	0.47
1:CA:1117:G:O3'	9:CI:104:ARG:HD2	2.15	0.47
10:CJ:8:LEU:HB2	10:CJ:70:ARG:O	2.14	0.47
3:CC:82:GLU:OE1	3:CC:82:GLU:N	2.46	0.47
27:B1:25:LYS:HE2	36:BA:2396:G:H5'	1.96	0.47
39:BD:266:SER:C	39:BD:267:SER:O	2.51	0.47
36:BA:285:C:C2'	36:BA:286:C:C5'	2.92	0.47
39:BD:73:VAL:HG13	39:BD:120:GLY:HA2	1.95	0.47
41:BF:154:VAL:HG13	41:BF:191:ARG:C	2.34	0.47
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.28	0.47
36:BA:1188:U:C5'	53:BV:79:VAL:HG12	2.45	0.47
36:DA:654(P):C:H2'	36:DA:654(Q):C:H5'	1.96	0.47
57:DZ:44:PHE:CZ	57:DZ:48:PHE:CD2	3.00	0.47
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.15	0.47
36:BA:1608:A:C6	36:BA:1611:C:C2	3.02	0.47
12:AL:38:THR:HG22	12:AL:57:LYS:O	2.14	0.47
19:AS:29:ARG:HB2	19:AS:48:THR:H	1.80	0.47
36:DA:588:U:H1'	41:DF:90:PHE:HB3	1.95	0.47
36:BA:2147:G:O2'	36:BA:2148:G:H5'	2.13	0.47
16:CP:28:ARG:HG2	16:CP:29:ASP:OD1	2.14	0.47
28:B2:2:LYS:HE3	28:B2:52:ASP:OD2	2.13	0.47
1:AA:349:A:C2'	1:AA:350:G:H5''	2.41	0.47
36:DA:2577:A:C5'	36:DA:2578:G:H5'	2.41	0.47
1:CA:277:C:C2'	1:CA:278:G:H5'	2.45	0.47
56:DY:27:VAL:HG12	56:DY:29:GLU:H	1.79	0.47
45:BN:65:LYS:HB2	45:BN:69:GLN:HG3	1.96	0.47
38:DC:211:ARG:HG3	38:DC:211:ARG:NH1	2.28	0.47
36:DA:1843:C:H2'	36:DA:1844:C:C6	2.49	0.47
47:BP:71:VAL:N	47:BP:72:PRO:CD	2.77	0.47
1:AA:56:U:H2'	1:AA:57:G:H8	1.76	0.47
36:DA:492:A:C2'	36:DA:493:G:H5'	2.44	0.47
37:BB:35:U:H5'	37:BB:36:C:OP2	2.14	0.47
57:BZ:141:VAL:HG13	57:BZ:144:LEU:HD23	1.96	0.47
56:BY:97:ARG:HG3	56:BY:97:ARG:NH1	2.29	0.47
36:DA:2033:A:O2'	36:DA:2034:U:P	2.72	0.47
1:AA:864:A:H2'	1:AA:865:A:C8	2.49	0.47
4:AD:3:ARG:HG2	4:AD:118:ARG:HE	1.79	0.47
26:D0:7:LEU:HD12	48:DQ:85:LYS:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.48	0.47
52:DU:17:ILE:CG2	52:DU:39:LEU:HD12	2.44	0.47
55:BX:47:PHE:CD2	55:BX:89:ILE:HG21	2.50	0.47
45:BN:12:ARG:O	45:BN:50:ASP:HB3	2.14	0.47
6:AF:21:LEU:O	6:AF:24:GLU:HB3	2.13	0.47
1:AA:1166:G:H5'	1:AA:1168:A:OP2	2.15	0.47
4:AD:53:ASP:O	4:AD:57:ARG:HD2	2.15	0.47
6:CF:69:GLU:O	6:CF:72:VAL:HG12	2.14	0.47
1:CA:1134:G:N2	1:CA:1141:C:C2	2.82	0.47
2:AB:151:GLY:O	2:AB:152:PHE:C	2.52	0.47
1:CA:1426:C:H2'	1:CA:1427:U:H6	1.80	0.47
1:AA:830:G:O2'	1:AA:831:U:H5'	2.14	0.47
36:BA:828:U:C5	36:BA:829:A:N6	2.82	0.47
36:DA:30:G:O2'	36:DA:31:C:H5'	2.15	0.47
57:DZ:77:ASP:C	57:DZ:78:LYS:HG2	2.35	0.47
36:BA:2079:U:H2'	36:BA:2080:G:H8	1.79	0.47
38:DC:191:ARG:HH11	38:DC:191:ARG:HG3	1.79	0.47
44:BJ:134:UNK:O	44:BJ:135:UNK:O	2.32	0.47
10:AJ:3:LYS:HZ3	10:AJ:77:PRO:HD2	1.79	0.47
42:DG:4:ASP:O	42:DG:5:VAL:HG23	2.14	0.47
25:AY:84:THR:CG2	59:AY:701:FUA:O3	2.51	0.47
41:BF:160:ASN:ND2	41:BF:162:LEU:HD13	2.28	0.47
25:CY:174:PHE:CD2	25:CY:267:LYS:HD3	2.49	0.47
36:BA:2157:G:O2'	36:BA:2158:A:O5'	2.33	0.47
1:CA:1399:C:C2	1:CA:1401:G:C5	3.02	0.47
45:BN:4:TYR:O	45:BN:5:VAL:C	2.53	0.47
53:BV:19:LYS:HZ3	53:BV:20:LEU:N	2.08	0.47
40:DE:38:THR:O	40:DE:42:ASP:HB2	2.14	0.47
29:D3:6:VAL:HB	29:D3:54:VAL:CG1	2.44	0.47
40:DE:117:MET:CA	40:DE:122:PHE:H	2.06	0.47
32:D6:5:VAL:HG22	36:DA:2283:C:OP1	2.14	0.47
32:D6:8:LYS:HA	32:D6:27:LYS:HA	1.96	0.47
36:BA:1278:A:H4'	49:BR:34:ILE:CG2	2.44	0.47
53:DV:19:LYS:NZ	53:DV:22:VAL:HG13	2.29	0.47
56:DY:52:SER:N	56:DY:53:PRO:CD	2.77	0.47
29:B3:14:GLY:O	36:BA:969:U:H4'	2.14	0.47
7:CG:23:VAL:O	7:CG:27:ILE:HB	2.14	0.47
47:BP:98:GLU:O	47:BP:101:VAL:HG22	2.14	0.47
51:DT:104:ASN:O	51:DT:106:SER:N	2.46	0.47
25:AY:513:LYS:O	25:AY:515:GLU:OE1	2.32	0.47
36:BA:154(A):C:C5	36:BA:155:U:HI'	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.34	0.47
18:AR:29:PHE:HD1	18:AR:29:PHE:N	1.89	0.47
8:CH:104:ARG:CZ	8:CH:138:TRP:CZ3	2.97	0.47
39:BD:24:ILE:HG12	39:BD:25:THR:N	2.28	0.47
40:BE:51:PHE:CD1	40:BE:52:LEU:N	2.82	0.47
49:DR:10:LEU:CB	49:DR:17:ARG:HD3	2.34	0.47
20:AT:27:LYS:O	20:AT:27:LYS:HD3	2.14	0.47
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.78	0.47
36:DA:1237:A:O2'	36:DA:1238:G:P	2.73	0.47
41:DF:20:LEU:O	41:DF:21:ALA:O	2.33	0.47
52:DU:47:TYR:CA	52:DU:50:ARG:NH1	2.72	0.47
52:BU:49:HIS:C	52:BU:52:ARG:HB2	2.34	0.47
36:BA:979:G:H2'	36:BA:982:C:N4	2.30	0.47
17:CQ:52:LYS:CD	17:CQ:55:ASP:OD2	2.63	0.47
19:CS:9:VAL:HG23	30:D4:53:GLU:OE2	2.14	0.47
3:AC:128:PHE:O	3:AC:130:VAL:N	2.48	0.47
1:CA:390:C:H2'	1:CA:391:G:C8	2.49	0.47
40:BE:23:VAL:HG12	40:BE:173:VAL:HG21	1.96	0.47
15:CO:82:ILE:O	15:CO:82:ILE:HD13	2.14	0.47
7:CG:5:ARG:HD2	7:CG:5:ARG:N	2.30	0.47
1:CA:499:A:H4'	1:CA:500:G:OP1	2.14	0.47
39:BD:227:ASN:O	39:BD:230:ASP:N	2.45	0.47
13:CM:58:GLU:O	13:CM:62:ASN:HB2	2.13	0.47
36:DA:1666:G:O3'	46:DO:6:THR:HG23	2.14	0.47
6:CF:97:PHE:HB2	18:CR:32:ARG:HH21	1.79	0.47
39:BD:65:ILE:N	39:BD:65:ILE:HD13	2.29	0.47
55:BX:57:LEU:N	55:BX:57:LEU:CD1	2.78	0.47
19:CS:37:ARG:HG3	19:CS:37:ARG:H	1.41	0.47
36:BA:2115:G:C3'	36:BA:2116:G:H5''	2.44	0.47
49:BR:11:ASN:O	49:BR:12:ARG:CB	2.62	0.47
17:AQ:9:VAL:CG1	17:AQ:56:VAL:HG22	2.43	0.47
48:BQ:135:ASP:HB2	48:BQ:136:ALA:H	1.58	0.47
36:DA:1930:G:HO2'	36:DA:1968:G:H1	1.60	0.47
1:CA:745:C:H2'	1:CA:746:A:H8	1.79	0.47
57:BZ:110:GLY:HA2	57:BZ:145:GLU:OE1	2.14	0.47
1:AA:931:C:H1'	1:AA:1387:G:N2	2.30	0.47
36:DA:777:A:C2	36:DA:778:G:C4	3.01	0.47
36:DA:1335:U:H2'	36:DA:1336:A:H8	1.79	0.47
8:CH:116:LYS:HD2	8:CH:129:VAL:HG11	1.96	0.47
36:BA:680:G:H2'	36:BA:681:G:H8	1.76	0.47
36:DA:20:C:O2'	36:DA:21:A:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:301:G:H1'	36:DA:302:C:C6	2.49	0.47
36:DA:2735:G:H2'	36:DA:2736:G:C8	2.49	0.47
7:AG:103:TRP:CE2	7:AG:137:LYS:HD3	2.50	0.47
1:CA:1070:U:O2'	1:CA:1071:C:H5'	2.14	0.47
31:D5:39:MET:HG3	54:DW:34:ASN:ND2	2.29	0.47
52:BU:17:ILE:HG23	52:BU:39:LEU:HD12	1.94	0.47
6:AF:10:LEU:HB2	6:AF:59:TYR:HB3	1.97	0.47
3:CC:29:TYR:OH	14:CN:54:PRO:HD2	2.14	0.47
36:BA:764:A:N3	39:BD:213:ARG:NH1	2.62	0.47
1:CA:1447:A:H2'	1:CA:1447:A:N3	2.28	0.47
36:BA:769:G:H5'	36:BA:1379:A:N6	2.28	0.47
10:AJ:30:SER:HA	10:AJ:80:LYS:HE2	1.96	0.47
36:BA:2272:U:H5''	36:BA:2273:A:OP1	2.14	0.47
25:AY:100:VAL:HG23	25:AY:329:ARG:HG2	1.97	0.47
25:AY:117:GLN:HE22	25:AY:120:THR:HG23	1.79	0.47
36:DA:1884:A:C3'	36:DA:1885:A:H5''	2.43	0.47
36:DA:2011:U:C2'	36:DA:2012:G:H5'	2.45	0.47
1:CA:1403:C:H1'	1:CA:1500:A:N1	2.29	0.47
56:DY:96:ILE:CD1	56:DY:99:CYS:SG	3.00	0.47
32:B6:5:VAL:CG1	32:B6:6:ARG:N	2.77	0.47
52:DU:91:ASP:O	52:DU:92:ARG:HB3	2.15	0.47
36:BA:1301:A:HO2'	36:BA:1302:A:P	2.37	0.47
32:D6:43:CYS:CB	32:D6:44:ARG:HH21	2.27	0.47
40:DE:131:ALA:HB3	40:DE:134:ILE:CD1	2.45	0.47
13:CM:66:LEU:CD1	13:CM:66:LEU:N	2.73	0.47
36:BA:2580:U:H4'	40:BE:130:GLY:HA3	1.95	0.47
36:DA:2103:C:H1'	36:DA:2187:G:N1	2.28	0.47
41:DF:28:ILE:HG12	41:DF:28:ILE:O	2.14	0.47
1:CA:1431:C:H2'	1:CA:1432:G:C5'	2.43	0.47
28:D2:59:ARG:O	28:D2:62:THR:N	2.47	0.47
34:B8:51:ALA:N	34:B8:53:PRO:HD2	2.30	0.47
31:B5:35:GLU:O	31:B5:36:CYS:CB	2.62	0.47
2:CB:24:TRP:CH2	2:CB:26:PRO:HA	2.50	0.47
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.29	0.47
39:BD:24:ILE:HG23	39:BD:25:THR:N	2.23	0.47
57:DZ:72:ARG:HG3	57:DZ:72:ARG:HH11	1.79	0.47
40:DE:70:ALA:O	40:DE:72:VAL:N	2.47	0.47
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.26	0.47
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.15	0.47
36:DA:507:A:H4'	36:DA:509:C:C6	2.50	0.47
42:BG:71:THR:OG1	42:BG:89:GLY:HA3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:85:LYS:HE3	43:DH:145:ALA:CB	2.42	0.47
25:CY:628:ARG:HG2	25:CY:628:ARG:HH11	1.79	0.47
57:DZ:109:ALA:C	57:DZ:111:VAL:H	2.16	0.47
1:AA:1104:G:P	2:AB:111:ARG:HD2	2.55	0.47
9:AI:7:THR:O	9:AI:83:ARG:HD2	2.14	0.47
39:BD:261:LYS:NZ	39:BD:263:ARG:NH2	2.62	0.47
12:AL:47:LYS:CD	12:AL:48:PRO:HD3	2.43	0.47
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.13	0.47
11:CK:21:ILE:HA	11:CK:30:VAL:HG12	1.95	0.47
31:B5:41:PRO:O	31:B5:44:THR:OG1	2.27	0.47
1:AA:390:C:H2'	1:AA:391:G:H8	1.80	0.47
28:B2:28:LYS:HZ1	28:B2:56:GLN:HE22	1.60	0.47
36:BA:883:G:N2	36:BA:894:C:C2	2.83	0.47
36:BA:1168:G:H2'	36:BA:1169:G:C8	2.49	0.47
8:AH:109:ILE:HG13	8:AH:120:THR:HB	1.97	0.47
40:DE:23:VAL:HG12	40:DE:173:VAL:HG21	1.95	0.47
2:AB:207:ALA:O	2:AB:210:SER:N	2.47	0.47
53:DV:5:VAL:CG2	53:DV:6:LYS:N	2.77	0.47
36:DA:82:G:H5''	36:DA:296:C:C5'	2.43	0.47
37:DB:111:G:O2'	37:DB:112:U:H5'	2.14	0.47
40:DE:82:ARG:O	40:DE:84:PHE:N	2.48	0.47
36:BA:2840:C:H5''	49:BR:53:HIS:CD2	2.50	0.47
2:CB:131:PRO:HG2	2:CB:134:GLU:HG2	1.96	0.47
25:AY:315:LYS:HZ2	25:AY:317:MET:CG	2.27	0.47
36:BA:1683:C:H2'	36:BA:1684:C:C6	2.48	0.47
36:DA:1361:G:O2'	36:DA:1362:C:H5'	2.15	0.47
37:DB:20:C:H2'	37:DB:21:G:H5''	1.96	0.47
36:BA:299:A:H5'	56:BY:97:ARG:NE	2.30	0.47
36:BA:2679:A:H2'	36:BA:2680:C:H6	1.79	0.47
1:AA:930:C:O2'	1:AA:931:C:H5'	2.14	0.47
23:CW:36:U:O5'	23:CW:36:U:C6	2.67	0.47
27:D1:18:ILE:N	27:D1:18:ILE:HD12	2.29	0.47
1:CA:803:G:C6	1:CA:804:U:N3	2.82	0.47
36:DA:2352:A:C2'	36:DA:2353:G:H5'	2.44	0.47
36:DA:773:U:H2'	36:DA:774:A:H5'	1.97	0.47
48:DQ:10:ARG:HB2	48:DQ:10:ARG:NH1	2.30	0.47
36:BA:682:G:H2'	36:BA:683:C:C6	2.50	0.47
52:BU:75:ASN:ND2	52:BU:77:SER:OG	2.47	0.47
37:DB:71:C:O2'	37:DB:72:G:H5'	2.15	0.47
17:CQ:27:PHE:CZ	17:CQ:36:ILE:HD11	2.50	0.47
36:DA:2321:G:N3	36:DA:2321:G:H2'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2062:A:O4'	36:DA:2062:A:N3	2.47	0.47
1:CA:312:C:H2'	1:CA:313:A:C8	2.49	0.47
30:D4:1:MET:N	30:D4:1:MET:SD	2.78	0.47
42:DG:34:LEU:HD13	42:DG:99:MET:CE	2.37	0.47
42:DG:53:LEU:C	42:DG:55:LYS:N	2.67	0.47
55:BX:14:SER:O	55:BX:17:ALA:HB3	2.13	0.47
59:AY:701:FUA:C20	59:AY:701:FUA:O1	2.62	0.47
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.97	0.47
45:BN:43:THR:HG22	45:BN:45:ASN:HD22	1.80	0.47
36:DA:1044:G:H1'	36:DA:1112:G:N2	2.30	0.47
36:BA:2134:A:H1'	36:BA:2158:A:H2	1.80	0.47
45:BN:10:GLU:OE2	45:BN:11:PRO:HD2	2.14	0.47
45:BN:9:VAL:HG12	45:BN:10:GLU:H	1.77	0.47
37:DB:8:U:H5'	37:DB:8:U:H6	1.79	0.47
25:AY:487:ILE:HB	25:AY:597:GLY:O	2.14	0.47
32:B6:5:VAL:HG22	36:BA:2283:C:OP1	2.15	0.47
15:AO:24:SER:O	15:AO:25:THR:C	2.52	0.47
28:D2:7:ARG:O	28:D2:11:GLU:HG3	2.14	0.47
23:CW:66:C:N4	23:CW:67:C:N4	2.63	0.47
25:AY:210:ARG:HG2	25:AY:210:ARG:HH11	1.80	0.47
25:AY:220:ALA:O	25:AY:245:ALA:HB1	2.15	0.47
36:BA:1453:U:H2'	36:BA:1455:G:C8	2.50	0.47
25:AY:420:ASP:HB3	25:AY:472:VAL:CG1	2.44	0.47
51:DT:89:VAL:HG12	51:DT:91:ARG:H	1.79	0.47
25:AY:384:ILE:O	25:AY:385:THR:O	2.32	0.47
41:BF:28:ILE:HD13	41:BF:28:ILE:N	2.11	0.47
1:AA:80:G:C6	1:AA:90:U:H5'	2.48	0.47
39:DD:26:LYS:O	39:DD:27:THR:CG2	2.62	0.47
1:CA:265:G:H2'	1:CA:267:C:H5	1.79	0.47
26:D0:26:TYR:O	26:D0:29:GLN:HB2	2.15	0.47
13:CM:6:GLY:C	13:CM:8:GLU:N	2.66	0.47
36:DA:797:C:H2'	36:DA:798:G:C8	2.50	0.47
47:DP:47:ASP:HB3	47:DP:48:PRO:O	2.15	0.47
51:BT:38:ASN:ND2	51:BT:38:ASN:C	2.62	0.47
2:CB:189:ASP:CG	2:CB:205:ASP:OD1	2.52	0.47
36:DA:142:A:H1'	36:DA:1408:C:C1'	2.34	0.47
40:BE:87:GLU:O	40:BE:89:ASP:N	2.48	0.47
42:BG:82:LEU:HD23	42:BG:83:ARG:N	2.29	0.47
13:AM:118:ALA:CB	13:AM:120:LYS:HE3	2.45	0.47
36:BA:363(F):A:O2'	36:BA:364:C:P	2.73	0.47
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:50:U:H2'	23:CW:51:C:C6	2.50	0.47
36:DA:544:G:H21	36:DA:547:A:H2'	1.78	0.47
4:CD:11:LEU:O	4:CD:12:CYS:C	2.53	0.47
26:B0:10:THR:CG2	26:B0:11:ARG:N	2.78	0.47
48:BQ:56:ARG:NE	48:BQ:56:ARG:HA	2.29	0.47
36:DA:1314:C:C6	36:DA:1314:C:H5'	2.37	0.47
14:CN:28:GLY:O	14:CN:29:ARG:O	2.31	0.47
1:AA:1225:A:N3	1:AA:1225:A:C2'	2.74	0.47
4:CD:78:LEU:CD2	4:CD:96:LEU:HB2	2.44	0.47
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.13	0.47
4:AD:145:GLU:C	4:AD:146:ILE:HD13	2.34	0.47
16:CP:8:ARG:CB	16:CP:28:ARG:NH1	2.77	0.47
37:DB:87:G:H2'	37:DB:88:C:H5''	1.95	0.47
36:BA:841:A:H8	36:BA:841:A:H5'	1.80	0.47
1:AA:407:G:OP1	4:AD:115:ARG:CZ	2.63	0.47
36:BA:958:U:C3'	36:BA:958:U:C6	2.98	0.47
36:BA:1668:A:N7	36:BA:1674:G:C6	2.82	0.47
1:CA:275:G:O2'	1:CA:276:G:H5'	2.14	0.47
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.95	0.47
36:BA:2794:C:H42	36:BA:2801(A):A:N6	2.12	0.47
36:BA:2801(A):A:H4'	36:BA:2802:G:H8	1.78	0.47
4:CD:159:ARG:O	4:CD:163:GLU:N	2.47	0.47
53:BV:37:VAL:HG23	53:BV:37:VAL:O	2.15	0.47
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.50	0.47
36:DA:1754:C:H2'	36:DA:1755:A:O4'	2.15	0.47
3:AC:25:GLY:C	3:AC:27:LYS:N	2.66	0.47
48:DQ:43:THR:HG22	48:DQ:94:VAL:HG12	1.96	0.47
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.15	0.47
21:AU:2:GLY:C	21:AU:4:GLY:N	2.67	0.47
40:DE:197:ILE:O	40:DE:197:ILE:HG12	2.15	0.47
36:BA:428:A:H3'	36:BA:429:A:C8	2.49	0.47
36:BA:2735:G:H2'	36:BA:2736:G:C8	2.49	0.47
1:AA:342:C:C2'	1:AA:343:U:H5'	2.44	0.47
38:BC:216:THR:OG1	38:BC:217:THR:N	2.47	0.47
31:D5:13:LYS:HZ1	36:DA:516:C:P	2.38	0.47
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.14	0.47
1:AA:665:A:H2'	1:AA:725:G:N2	2.30	0.47
36:BA:737:C:C2'	36:BA:738:G:H5'	2.44	0.47
56:BY:91:GLU:O	56:BY:92:ASN:HB2	2.14	0.47
2:AB:179:LYS:NZ	2:AB:179:LYS:HB2	2.30	0.47
8:CH:30:ARG:NH1	8:CH:30:ARG:HB3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:126:SER:C	38:DC:128:LEU:H	2.18	0.47
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.49	0.47
30:D4:7:PRO:HG3	42:DG:61:ALA:HB1	1.97	0.47
42:DG:11:TYR:OH	42:DG:33:ARG:HG3	2.14	0.47
42:DG:55:LYS:C	42:DG:57:ALA:N	2.67	0.47
25:CY:124:GLN:O	25:CY:127:LYS:HB3	2.15	0.47
25:CY:331:TYR:O	25:CY:371:ALA:HB1	2.15	0.47
25:CY:93:GLU:HG3	59:CY:701:FUA:C6	2.45	0.47
25:AY:114:VAL:O	25:AY:116:PRO:HD3	2.15	0.47
43:BH:159:GLU:CG	43:BH:160:LYS:N	2.77	0.47
41:BF:170:LEU:HB2	41:BF:173:VAL:CB	2.38	0.47
41:BF:168:ARG:HG2	41:BF:175:THR:HG21	1.96	0.47
36:DA:1858:G:H2'	36:DA:1883:G:N2	2.29	0.47
13:CM:124:PRO:CG	25:CY:574:GLU:H	2.04	0.47
36:BA:212:G:C5'	36:BA:212:G:H8	2.20	0.47
36:BA:184:C:H2'	36:BA:185:U:C6	2.49	0.47
54:DW:82:LEU:HB3	54:DW:84:ARG:NH1	2.28	0.47
1:AA:1367:C:N3	1:AA:1368:G:C8	2.83	0.47
52:BU:90:VAL:HG13	53:BV:39:LEU:HG	1.95	0.47
57:BZ:118:GLN:CD	57:BZ:120:ILE:HD11	2.34	0.47
41:DF:127:GLU:HB2	41:DF:196:LEU:HD11	1.95	0.47
34:B8:28:GLY:HA2	34:B8:32:LEU:HD21	1.96	0.47
32:B6:54:ILE:HD13	36:BA:2420:C:C5'	2.45	0.47
36:BA:84:A:H2	36:BA:98:G:N3	2.12	0.47
53:DV:40:LEU:CA	53:DV:45:THR:HB	2.42	0.47
50:DS:14:VAL:O	50:DS:15:ARG:C	2.51	0.47
31:D5:40:LYS:CE	31:D5:46:CYS:H	2.28	0.47
25:AY:609:GLU:HB3	25:AY:642:VAL:CG1	2.44	0.47
2:CB:86:GLU:C	2:CB:88:ALA:H	2.17	0.47
36:DA:1450(A):C:H2'	36:DA:1451:C:C6	2.49	0.47
32:B6:15:GLU:OE2	32:B6:44:ARG:CZ	2.63	0.47
36:DA:1005:C:N3	36:DA:1143:A:C2	2.83	0.47
45:DN:58:ASP:HB3	45:DN:95:PRO:HB2	1.97	0.47
39:BD:35:LYS:N	39:BD:36:PRO:HD2	2.28	0.47
39:BD:35:LYS:CB	39:BD:63:ARG:HA	2.44	0.47
47:DP:98:GLU:O	47:DP:101:VAL:HG22	2.14	0.47
36:BA:1495:A:N3	36:BA:1496:A:C2	2.83	0.47
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.15	0.47
25:CY:655:TYR:OH	25:CY:659:LEU:HD23	2.15	0.47
27:B1:78:LYS:O	27:B1:80:LEU:N	2.46	0.47
56:BY:52:SER:N	56:BY:53:PRO:CD	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.15	0.47
36:BA:2297:C:O2'	36:BA:2298:A:H5'	2.15	0.47
28:D2:24:LEU:HD23	28:D2:24:LEU:C	2.35	0.47
28:D2:38:GLN:HB2	28:D2:41:ILE:CD1	2.45	0.47
28:D2:45:SER:O	28:D2:46:GLN:NE2	2.48	0.47
36:DA:112:U:C2'	36:DA:113:G:H5'	2.44	0.47
34:B8:59:LYS:HE3	34:B8:59:LYS:HB2	1.65	0.47
36:BA:667:U:H2'	36:BA:668:G:O4'	2.15	0.47
39:DD:83:GLU:HB2	39:DD:92:ILE:CD1	2.35	0.47
48:BQ:120:ILE:O	48:BQ:123:HIS:HB2	2.15	0.47
46:DO:17:ARG:HH21	46:DO:47:ILE:HD11	1.80	0.47
1:CA:192:U:O3'	20:CT:57:ARG:HD2	2.15	0.47
17:AQ:69:LYS:C	17:AQ:70:ARG:HD2	2.32	0.47
36:DA:2809:A:H2'	36:DA:2810:A:C8	2.49	0.47
36:BA:2888:C:H2'	36:BA:2889:C:C6	2.50	0.47
51:BT:57:PHE:O	51:BT:59:THR:N	2.47	0.47
36:DA:2673:G:H5'	36:DA:2673:G:H8	1.80	0.47
40:DE:51:PHE:HD1	40:DE:52:LEU:N	2.13	0.47
40:DE:67:PHE:O	40:DE:70:ALA:HB2	2.13	0.47
36:BA:307:G:N2	36:BA:310:A:O5'	2.47	0.47
25:CY:168:ILE:HD11	25:CY:178:ILE:HD12	1.96	0.47
51:DT:57:PHE:O	51:DT:59:THR:N	2.47	0.47
1:CA:1129:C:C6	1:CA:1129:C:H5'	2.43	0.47
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.97	0.47
42:BG:43:LEU:N	42:BG:43:LEU:HD22	2.30	0.47
36:BA:1538:G:H2'	36:BA:1539:G:H8	1.75	0.47
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.35	0.47
46:DO:35:VAL:HG11	46:DO:103:ALA:CB	2.37	0.47
18:CR:46:GLU:C	18:CR:48:GLY:N	2.66	0.47
18:CR:58:LEU:CD1	18:CR:58:LEU:N	2.78	0.47
36:BA:2876:G:H4'	51:BT:3:ARG:CD	2.45	0.47
1:CA:328:C:C2'	1:CA:328:C:O2	2.51	0.47
26:D0:19:LYS:HZ2	26:D0:41:ARG:HH12	1.63	0.47
41:DF:132:VAL:HG22	41:DF:133:ASN:HD22	1.79	0.47
41:DF:132:VAL:CG2	41:DF:133:ASN:N	2.77	0.47
36:BA:409:C:H2'	36:BA:410:G:H8	1.78	0.47
57:DZ:146:ILE:HG22	57:DZ:174:VAL:HG12	1.96	0.47
36:BA:1436:G:O2'	36:BA:1437:C:H5'	2.14	0.47
14:AN:28:GLY:O	14:AN:29:ARG:O	2.33	0.47
2:AB:111:ARG:O	2:AB:145:LEU:HD12	2.15	0.47
1:AA:1117:G:O3'	9:AI:104:ARG:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:11:ARG:CB	26:B0:11:ARG:HH11	2.26	0.47
9:AI:93:ARG:C	9:AI:95:LYS:N	2.67	0.47
25:CY:276:VAL:CA	25:CY:280:LEU:HD23	2.44	0.47
36:DA:1718:G:O2'	36:DA:1719:G:H5'	2.14	0.47
36:DA:979:G:H2'	36:DA:982:C:N4	2.30	0.47
12:CL:57:LYS:HG3	12:CL:67:THR:CG2	2.42	0.47
36:DA:86:C:H2'	36:DA:87:C:C6	2.50	0.47
36:BA:1718:G:O2'	36:BA:1719:G:H5'	2.14	0.47
54:BW:4:LYS:HG2	54:BW:5:ALA:N	2.29	0.47
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.79	0.47
8:CH:50:ARG:CB	8:CH:50:ARG:HH11	2.25	0.47
57:BZ:103:ARG:HH11	57:BZ:103:ARG:CB	2.24	0.47
37:DB:93:G:O2'	37:DB:94:C:H5'	2.15	0.47
4:AD:78:LEU:CD2	4:AD:96:LEU:HB2	2.45	0.47
4:AD:163:GLU:C	4:AD:165:MET:H	2.16	0.47
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.88	0.47
18:AR:35:ARG:O	18:AR:37:VAL:N	2.45	0.47
36:DA:2801(A):A:H4'	36:DA:2802:G:H8	1.78	0.47
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	1.95	0.47
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.95	0.47
57:DZ:85:HIS:ND1	57:DZ:86:VAL:N	2.62	0.47
1:AA:715:A:H2'	1:AA:716:A:C8	2.50	0.47
53:BV:5:VAL:CG2	53:BV:6:LYS:N	2.77	0.47
1:AA:458:C:H3'	1:AA:460:G:H8	1.79	0.47
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.49	0.47
22:CV:61:C:H2'	22:CV:62:C:C6	2.45	0.47
19:AS:5:LEU:HG	19:AS:10:PHE:CD1	2.50	0.47
46:BO:12:ASP:OD2	46:BO:85:VAL:HG13	2.14	0.47
25:AY:176:GLY:HA2	25:AY:188:TYR:CD2	2.50	0.47
25:AY:225:GLU:H	25:AY:225:GLU:CD	2.18	0.47
7:CG:88:PRO:HB3	7:CG:145:ALA:HA	1.97	0.47
1:CA:1320:C:OP1	19:CS:70:LYS:NZ	2.43	0.47
13:AM:83:ASP:C	13:AM:85:GLY:N	2.67	0.47
45:DN:65:LYS:NZ	45:DN:65:LYS:CB	2.78	0.47
36:BA:139(A):G:H22	55:BX:44:GLU:CD	2.17	0.47
1:CA:34:C:O2'	1:CA:35:G:H5'	2.14	0.47
52:DU:82:GLY:C	52:DU:84:LYS:N	2.67	0.47
1:AA:308:C:H2'	1:AA:309:G:H8	1.80	0.47
11:CK:126:ARG:HG2	11:CK:126:ARG:NH1	2.30	0.47
57:BZ:89:PHE:HE2	57:BZ:96:VAL:HG21	1.79	0.47
46:DO:107:ARG:HA	46:DO:112:MET:HE1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:680:G:H2'	36:DA:681:G:H8	1.77	0.47
36:BA:1525:G:H2'	36:BA:1526:G:H8	1.78	0.47
36:DA:2230:G:H2'	36:DA:2231:C:C6	2.50	0.47
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.83	0.47
15:AO:53:HIS:O	15:AO:57:LEU:HD23	2.14	0.47
8:AH:116:LYS:HD2	8:AH:129:VAL:HG11	1.95	0.47
36:BA:1336:A:H2'	36:BA:1337:G:H8	1.78	0.47
41:BF:103:LYS:HA	41:BF:106:ARG:CG	2.45	0.47
1:AA:413:G:H21	1:AA:428:G:H1'	1.79	0.47
37:BB:53:A:C2	37:BB:54:G:C8	3.02	0.47
17:AQ:24:GLU:O	17:AQ:25:ARG:HB3	2.14	0.47
11:AK:44:SER:O	11:AK:45:GLY:C	2.53	0.47
36:DA:712:G:C2'	36:DA:713:G:H5'	2.45	0.47
23:AW:57:A:O2'	23:AW:58:A:H5'	2.14	0.47
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.15	0.47
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.14	0.47
36:BA:712:G:C2'	36:BA:713:G:H5'	2.44	0.47
11:CK:44:SER:O	11:CK:46:GLY:N	2.48	0.47
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.28	0.47
36:BA:2373:G:H2'	36:BA:2374:C:C6	2.50	0.47
20:AT:74:LYS:HB2	20:AT:75:ASN:H	1.43	0.47
1:CA:1426:C:H2'	1:CA:1427:U:C6	2.50	0.47
36:DA:1694:C:O4'	36:DA:1695:G:C2	2.68	0.47
45:DN:35:ARG:O	45:DN:42:TRP:CZ3	2.68	0.47
25:AY:689:LYS:HG3	25:AY:690:GLY:N	2.30	0.47
36:DA:1985:G:O2'	36:DA:1986:A:H5'	2.14	0.47
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.97	0.47
41:BF:140:LEU:O	41:BF:143:ALA:HB3	2.13	0.47
43:BH:137:ASP:O	43:BH:138:LYS:HB2	2.15	0.47
36:DA:2052:G:H4'	40:DE:143:ASN:O	2.15	0.47
26:B0:36:ILE:HG13	26:B0:36:ILE:O	2.14	0.47
2:CB:179:LYS:NZ	2:CB:179:LYS:HB2	2.30	0.47
36:BA:1985:G:O2'	36:BA:1986:A:H5'	2.15	0.47
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.95	0.47
36:BA:2835:A:N6	36:BA:2878:U:H3'	2.30	0.47
36:BA:2039:C:H2'	36:BA:2040:C:H6	1.79	0.47
25:AY:543:GLN:O	25:AY:547:GLU:HB2	2.15	0.47
4:CD:168:ARG:N	4:CD:168:ARG:HD2	2.30	0.47
42:DG:145:THR:HG23	42:DG:148:MET:HB3	1.97	0.47
2:CB:53:ARG:O	2:CB:53:ARG:HG2	2.14	0.47
36:BA:152:G:H1	36:BA:174:C:H42	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:89:GLY:O	13:AM:90:LEU:C	2.52	0.47
24:CX:13:A:OP1	24:CX:14:U:OP1	2.33	0.47
37:DB:45:A:H1'	42:DG:95:ARG:CZ	2.43	0.47
25:AY:85:PRO:CG	25:AY:94:VAL:HG13	2.44	0.47
14:CN:18:VAL:CG2	14:CN:19:ARG:N	2.78	0.47
36:DA:1747(A):G:O2'	36:DA:1748:G:H5''	2.13	0.47
25:CY:594:VAL:O	25:CY:594:VAL:HG12	2.15	0.47
57:BZ:152:ALA:HA	57:BZ:167:PRO:HB2	1.96	0.47
57:BZ:149:SER:HB2	57:BZ:172:ALA:O	2.15	0.47
32:B6:25:LYS:NZ	34:B8:34:TRP:HZ2	2.12	0.47
56:DY:73:ARG:O	56:DY:74:PRO:O	2.33	0.47
45:DN:9:VAL:HG12	45:DN:10:GLU:H	1.78	0.47
53:DV:51:VAL:CG1	53:DV:52:VAL:H	2.14	0.47
40:BE:117:MET:CE	40:BE:124:GLY:HA3	2.45	0.47
56:BY:46:LYS:HB2	56:BY:62:GLU:CG	2.44	0.47
36:DA:1902:C:H2'	36:DA:1903:G:O4'	2.14	0.47
36:DA:363:G:H2'	36:DA:363(A):A:C8	2.49	0.47
36:DA:1022:G:H22	36:DA:1142(A):A:H2	1.61	0.47
39:BD:34:VAL:O	39:BD:36:PRO:HG2	2.15	0.47
36:DA:483:A:N3	36:DA:483:A:H2'	2.30	0.47
1:CA:1432:G:OP1	51:DT:107:ASP:HB2	2.15	0.47
41:BF:188:ARG:CA	47:BP:7:ARG:HH21	2.27	0.47
36:DA:1568:G:P	39:DD:63:ARG:HH22	2.37	0.47
28:D2:36:ARG:C	28:D2:38:GLN:H	2.16	0.47
50:DS:85:VAL:CG2	50:DS:106:ARG:HG3	2.43	0.47
39:DD:27:THR:HG23	39:DD:83:GLU:HG2	1.94	0.47
36:BA:812:C:H1'	36:BA:1250:G:N2	2.30	0.47
36:DA:1516:C:C2'	36:DA:1517:G:C5'	2.81	0.47
2:AB:189:ASP:C	2:AB:191:ASP:H	2.18	0.47
51:DT:59:THR:OG1	51:DT:78:LEU:HD12	2.15	0.47
42:BG:75:LYS:C	42:BG:76:SER:HG	2.16	0.47
36:DA:1348:G:C3'	36:DA:1349:A:H5''	2.44	0.47
41:BF:20:LEU:O	41:BF:21:ALA:O	2.32	0.47
40:DE:199:ARG:HH11	40:DE:199:ARG:HB2	1.80	0.47
2:AB:126:GLU:HA	2:AB:129:GLU:CD	2.35	0.47
36:DA:1960:A:H8	36:DA:1960:A:C5'	2.28	0.47
42:BG:111:LEU:N	42:BG:112:PRO:CD	2.78	0.47
36:BA:917:A:O2'	36:BA:918:A:H5'	2.14	0.47
41:DF:154:VAL:HG13	41:DF:191:ARG:C	2.35	0.47
41:DF:192:LEU:CD2	41:DF:194:MET:HG3	2.42	0.47
36:BA:863:A:H2'	36:BA:864:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:108:ILE:O	2:AB:111:ARG:HB2	2.15	0.47
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.15	0.47
43:DH:53:GLU:CD	43:DH:54:ARG:H	2.18	0.47
36:DA:1719:G:O2'	36:DA:1720:U:H5'	2.14	0.47
36:DA:1799:G:N2	36:DA:1818:U:H2'	2.29	0.47
38:BC:115:VAL:CG2	38:BC:150:ILE:HD11	2.45	0.47
40:BE:64:LYS:C	40:BE:66:HIS:N	2.68	0.47
19:AS:40:ILE:O	19:AS:41:VAL:C	2.53	0.47
45:DN:30:ILE:O	45:DN:34:LEU:CD2	2.63	0.47
36:DA:883:G:N2	36:DA:894:C:C2	2.83	0.47
36:DA:2617:C:C2'	36:DA:2618:G:H5'	2.45	0.47
56:DY:3:VAL:O	56:DY:3:VAL:HG12	2.15	0.47
46:DO:13:ASN:HD21	46:DO:97:ARG:CG	2.27	0.47
36:BA:958:U:H3'	36:BA:958:U:C6	2.47	0.47
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.97	0.47
11:AK:21:ILE:HD13	11:AK:82:VAL:HG13	1.97	0.47
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.27	0.47
6:CF:10:LEU:HB2	6:CF:59:TYR:HB3	1.97	0.47
36:DA:990:A:OP2	36:DA:991:C:OP2	2.33	0.47
45:DN:65:LYS:HB2	45:DN:69:GLN:HG3	1.97	0.47
43:DH:136:ILE:H	43:DH:136:ILE:HD12	1.78	0.47
3:CC:60:ALA:O	3:CC:61:ALA:CB	2.63	0.47
47:BP:102:ARG:HB3	47:BP:102:ARG:CZ	2.45	0.47
15:CO:57:LEU:N	15:CO:57:LEU:HD23	2.29	0.47
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.80	0.47
4:AD:148:VAL:HG12	4:AD:152:SER:HB2	1.97	0.47
7:AG:92:SER:O	7:AG:93:PRO:C	2.52	0.47
36:DA:428:A:H3'	36:DA:429:A:C8	2.49	0.47
3:AC:133:ALA:O	3:AC:137:ALA:HB2	2.14	0.47
1:AA:189(D):C:H2'	1:AA:189(E):U:O4'	2.15	0.47
1:AA:1134:G:N2	1:AA:1141:C:C2	2.82	0.47
4:CD:68:TYR:O	4:CD:69:GLY:C	2.52	0.47
47:BP:124:LYS:HD3	47:BP:143:GLY:HA3	1.97	0.47
29:D3:12:PRO:O	29:D3:13:ILE:C	2.52	0.47
36:DA:265:A:H1'	36:DA:266:G:C1'	2.45	0.47
1:CA:1111:A:N1	3:CC:177:THR:OG1	2.44	0.47
41:BF:46:ARG:HH11	41:BF:46:ARG:HG3	1.80	0.47
47:DP:124:LYS:HD3	47:DP:143:GLY:HA3	1.95	0.47
39:BD:55:GLY:O	39:BD:216:GLY:HA2	2.15	0.47
36:BA:523:C:H2'	36:BA:524:U:O4'	2.15	0.47
25:CY:120:THR:O	25:CY:124:GLN:CG	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:327:PHE:N	25:CY:327:PHE:CD1	2.82	0.47
59:CY:701:FUA:C31	59:CY:701:FUA:O4	2.62	0.47
25:AY:114:VAL:O	25:AY:114:VAL:HG13	2.13	0.47
36:DA:2732:G:H3'	36:DA:2733:A:C5'	2.44	0.47
37:BB:49:C:H2'	37:BB:50:G:H8	1.79	0.47
57:BZ:155:LEU:HD23	57:BZ:155:LEU:N	2.30	0.47
37:DB:7:G:H4'	50:DS:29:PHE:CD2	2.49	0.47
37:DB:75:G:O3'	57:DZ:10:ARG:NH1	2.48	0.47
28:D2:14:ARG:HG3	28:D2:14:ARG:NH1	2.29	0.47
36:BA:1022:G:H22	36:BA:1142(A):A:H2	1.62	0.47
32:B6:38:LYS:HB3	36:BA:2344:U:C5'	2.45	0.47
39:BD:30:GLU:CG	39:BD:63:ARG:NH2	2.78	0.47
49:BR:63:ARG:HA	49:BR:80:PHE:CZ	2.50	0.47
36:BA:1264:G:O3'	36:BA:2615:U:H5'	2.15	0.47
36:DA:154(A):C:C5	36:DA:155:U:H1'	2.50	0.47
36:BA:2476:A:C2	36:BA:2477:C:C5	3.03	0.47
27:D1:76:ARG:HH12	27:D1:95:LEU:CD2	2.20	0.47
1:AA:255:G:O6	1:AA:266:G:O6	2.33	0.47
36:DA:2787:C:H1'	40:DE:61:ARG:CG	2.45	0.47
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.97	0.47
39:BD:24:ILE:CG1	39:BD:25:THR:N	2.76	0.47
40:DE:52:LEU:O	40:DE:74:PRO:HA	2.15	0.47
47:BP:16:ARG:CZ	47:BP:18:ARG:CG	2.93	0.47
2:AB:189:ASP:CG	2:AB:205:ASP:OD1	2.54	0.47
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.67	0.47
9:CI:9:ARG:HB3	9:CI:104:ARG:HH12	1.80	0.47
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.15	0.47
43:DH:50:VAL:CG1	43:DH:51:ARG:N	2.78	0.47
1:CA:687:A:H62	1:CA:703:G:H1'	1.80	0.47
30:D4:50:VAL:O	30:D4:51:ASP:HB3	2.15	0.47
36:DA:545:C:H2'	36:DA:547:A:C5'	2.37	0.47
39:DD:72:LYS:HG3	39:DD:103:ARG:NH2	2.30	0.47
26:D0:10:THR:CG2	26:D0:11:ARG:H	2.23	0.47
36:DA:2852:G:H1	36:DA:2865:U:H3	1.63	0.47
14:CN:29:ARG:HG3	14:CN:29:ARG:NH1	2.22	0.47
12:AL:28:LYS:HB2	12:AL:33:ARG:NH2	2.30	0.47
18:CR:37:VAL:CG2	18:CR:38:GLU:N	2.76	0.47
19:AS:19:VAL:CG1	19:AS:44:MET:HG2	2.45	0.47
4:CD:78:LEU:HB3	4:CD:93:PHE:HE1	1.79	0.47
14:AN:42:ILE:HG22	14:AN:43:CYS:N	2.30	0.47
49:BR:118:GLU:HA	49:BR:118:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:191:A:O5'	36:BA:191:A:H8	1.98	0.47
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.29	0.47
37:BB:111:G:O2'	37:BB:112:U:H5'	2.15	0.47
36:BA:904:C:H2'	36:BA:905:U:C6	2.49	0.47
43:DH:149:ARG:HA	43:DH:162:ILE:CG1	2.45	0.47
4:AD:61:LYS:HD2	4:AD:207:TYR:OH	2.15	0.47
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.50	0.47
53:BV:35:LEU:O	53:BV:37:VAL:N	2.48	0.47
53:DV:72:VAL:HG23	53:DV:85:LYS:HB2	1.97	0.47
36:BA:2389:G:H5''	36:BA:2390:U:O4'	2.14	0.47
36:BA:606:U:H5'	36:BA:607:U:OP2	2.14	0.47
3:CC:136:GLN:HG3	3:CC:139:GLN:HB3	1.96	0.47
47:DP:13:ASN:ND2	47:DP:13:ASN:H	2.13	0.47
1:CA:1305:G:C5'	21:CU:4:GLY:HA3	2.45	0.47
36:DA:1080:C:H2'	36:DA:1081:U:O4'	2.14	0.47
1:CA:22:G:O2'	1:CA:23:C:H5'	2.15	0.47
1:AA:337:C:H2'	1:AA:338:A:C8	2.47	0.47
36:BA:2081:C:H2'	36:BA:2082:A:H8	1.78	0.47
9:CI:10:ARG:O	9:CI:11:LYS:HB3	2.14	0.47
36:BA:2161:C:O2'	36:BA:2162:G:H5'	2.15	0.47
2:AB:235:SER:C	2:AB:237:ALA:H	2.14	0.47
38:DC:65:LEU:HD21	38:DC:162:ILE:HD11	1.97	0.47
36:DA:324:A:O2'	36:DA:325:G:H5'	2.14	0.47
7:AG:112:PRO:HG2	7:AG:113:GLU:OE2	2.15	0.47
52:BU:104:GLN:HB3	53:BV:44:LYS:HZ1	1.80	0.47
36:DA:42:G:N3	36:DA:42:G:H2'	2.29	0.47
3:AC:136:GLN:HG3	3:AC:139:GLN:HB3	1.97	0.47
1:CA:311:C:O2'	1:CA:312:C:H5'	2.15	0.47
27:D1:34:THR:HG22	27:D1:36:GLY:H	1.80	0.47
25:CY:359:HIS:CD2	25:CY:364:GLU:HB2	2.49	0.47
36:BA:2052:G:H4'	40:BE:143:ASN:O	2.14	0.47
36:BA:2508:G:O2'	36:BA:2509:G:H5'	2.15	0.47
42:BG:150:ASP:CG	42:BG:151:ALA:H	2.18	0.47
51:BT:93:ARG:HD2	51:BT:93:ARG:HA	1.72	0.47
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.30	0.47
2:CB:45:GLN:HG2	2:CB:45:GLN:O	2.14	0.47
55:BX:40:LYS:HG3	55:BX:51:VAL:CG2	2.45	0.47
56:BY:41:GLY:O	56:BY:43:ASN:OD1	2.33	0.47
25:CY:503:GLY:O	25:CY:505:GLY:N	2.44	0.47
1:CA:1347:G:H3'	9:CI:108:VAL:O	2.15	0.47
36:DA:2134:A:C8	36:DA:2158:A:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:17:LYS:NZ	12:AL:18:VAL:HG22	2.30	0.47
36:BA:210:C:H2'	36:BA:211:A:C8	2.50	0.47
49:DR:99:LYS:N	49:DR:99:LYS:CD	2.59	0.47
36:DA:2307:G:N3	36:DA:2307:G:H3'	2.30	0.47
31:B5:55:ARG:HH22	49:BR:33:ARG:CD	2.28	0.47
13:AM:67:GLU:O	13:AM:69:GLU:N	2.48	0.47
32:B6:16:CYS:SG	32:B6:48:VAL:HG21	2.54	0.47
47:DP:102:ARG:NH1	47:DP:102:ARG:CB	2.78	0.47
47:DP:83:VAL:HG23	47:DP:105:LEU:HD13	1.96	0.47
25:CY:652:MET:HG2	25:CY:671:MET:SD	2.55	0.47
25:AY:177:ILE:CG2	25:AY:260:LEU:HD21	2.45	0.47
51:DT:92:GLY:C	51:DT:94:ALA:N	2.67	0.47
26:B0:27:GLU:HG3	26:B0:68:GLU:HA	1.95	0.47
47:BP:57:THR:OG1	47:BP:59:LEU:HB2	2.14	0.47
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.26	0.47
36:BA:142:A:H1'	36:BA:1408:C:C1'	2.32	0.47
1:AA:1364:U:C2'	1:AA:1364:U:O2	2.54	0.47
36:DA:667:U:H2'	36:DA:668:G:O4'	2.15	0.47
36:DA:662:G:H2'	36:DA:663:G:H8	1.80	0.47
13:AM:15:VAL:HG12	13:AM:45:VAL:CG2	2.39	0.47
23:AW:30:G:C2'	23:AW:31:G:C5'	2.93	0.47
40:DE:32:PRO:HA	40:DE:90:THR:HA	1.97	0.47
36:DA:2223:G:C2'	36:DA:2224:G:H5'	2.45	0.47
42:BG:83:ARG:HD2	42:BG:83:ARG:N	2.30	0.47
39:BD:183:ARG:CG	39:BD:183:ARG:HH11	2.17	0.47
1:AA:1237:C:H3'	1:AA:1238:A:C5'	2.40	0.47
2:AB:188:ALA:O	2:AB:202:PRO:HA	2.15	0.47
36:DA:409:C:H2'	36:DA:410:G:H8	1.80	0.47
4:CD:13:ARG:O	4:CD:14:ARG:C	2.54	0.47
19:CS:29:ARG:HB2	19:CS:48:THR:H	1.78	0.47
2:CB:111:ARG:O	2:CB:145:LEU:HD12	2.14	0.47
1:AA:555:C:OP1	12:AL:20:LYS:HE2	2.15	0.47
9:AI:9:ARG:CB	9:AI:104:ARG:HH12	2.28	0.47
36:BA:1188:U:H5'	53:BV:79:VAL:CG1	2.44	0.47
40:DE:55:ASN:ND2	40:DE:75:VAL:HG22	2.30	0.47
39:DD:179:SER:C	39:DD:181:GLU:H	2.17	0.47
25:AY:65:ILE:HD13	25:AY:65:ILE:N	2.31	0.47
17:CQ:52:LYS:HD3	17:CQ:55:ASP:OD2	2.15	0.47
31:B5:25:LEU:HD12	54:BW:19:LEU:O	2.15	0.47
39:BD:91:ARG:O	39:BD:107:ALA:HB3	2.15	0.47
25:CY:377:VAL:CG2	25:CY:380:LEU:HD22	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.30	0.47
48:DQ:50:ALA:O	48:DQ:51:ARG:C	2.52	0.47
36:DA:904:C:H2'	36:DA:905:U:C6	2.49	0.47
48:DQ:18:LYS:HD2	48:DQ:18:LYS:N	2.30	0.47
36:BA:887:A:N3	36:BA:887:A:H2'	2.30	0.47
34:D8:39:LYS:HG3	34:D8:43:GLN:NE2	2.30	0.47
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.15	0.47
47:BP:93:GLY:O	47:BP:123:LEU:HB2	2.14	0.47
36:DA:2414:G:C2	36:DA:2415:G:C8	3.02	0.47
41:DF:125:LEU:HD23	41:DF:125:LEU:H	1.79	0.47
49:BR:53:HIS:HD1	49:BR:53:HIS:C	2.18	0.47
1:CA:918:A:H2'	1:CA:919:A:O4'	2.15	0.47
36:BA:2685:G:H5'	46:BO:68:GLU:OE2	2.14	0.47
46:BO:14:THR:HB	46:BO:86:ILE:HD13	1.97	0.47
36:BA:1361:G:O2'	36:BA:1362:C:H5'	2.15	0.47
19:CS:5:LEU:HG	19:CS:10:PHE:CD1	2.50	0.47
43:DH:136:ILE:O	43:DH:136:ILE:HG22	2.15	0.47
50:BS:42:ASP:O	50:BS:43:GLU:CB	2.63	0.47
1:AA:115:G:H1'	1:AA:116:A:N7	2.30	0.47
23:AW:36:U:O5'	23:AW:36:U:C6	2.67	0.47
36:DA:1759:A:H2'	36:DA:1760:A:H8	1.80	0.47
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.14	0.47
7:CG:26:PHE:CE2	7:CG:30:ILE:HD11	2.49	0.47
27:D1:18:ILE:HG22	27:D1:20:ARG:HG3	1.97	0.47
37:DB:54:G:H2'	37:DB:55:U:H6	1.79	0.47
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.49	0.47
1:CA:882:C:O2'	1:CA:883:C:H5'	2.15	0.47
37:BB:5:C:O2'	37:BB:6:C:H5'	2.15	0.47
36:BA:2155:G:O2'	36:BA:2156:G:H5'	2.15	0.47
36:DA:2165:G:H2'	36:DA:2166:G:O4'	2.15	0.47
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	1.97	0.47
1:CA:1243:C:O2'	1:CA:1244:C:H5'	2.15	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.49	0.47
3:AC:29:TYR:OH	14:AN:54:PRO:HD2	2.14	0.47
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.49	0.47
36:BA:1925:C:O2'	36:BA:1926:U:H5'	2.14	0.47
1:CA:1123:A:O3'	10:CJ:36:GLY:HA3	2.14	0.47
36:BA:1661:G:O2'	36:BA:1662:C:H5'	2.15	0.47
36:BA:129:C:H2'	36:BA:130:C:C6	2.50	0.47
36:DA:1839:G:N3	36:DA:1839:G:H2'	2.30	0.47
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2143:C:C2'	36:DA:2144:U:H5'	2.45	0.47
7:AG:8:GLU:O	7:AG:9:VAL:C	2.53	0.47
36:BA:2165:G:H2'	36:BA:2166:G:O4'	2.15	0.47
38:DC:127:LYS:O	38:DC:128:LEU:CD2	2.62	0.46
42:DG:40:ASN:HD22	42:DG:41:GLN:N	2.12	0.46
42:DG:61:ALA:HA	42:DG:64:THR:HG22	1.97	0.46
42:DG:67:LYS:HD3	42:DG:68:PRO:O	2.14	0.46
52:BU:65:ILE:HG12	52:BU:96:ALA:HB1	1.97	0.46
29:D3:31:LEU:O	29:D3:32:GLN:CB	2.63	0.46
42:BG:63:ILE:HD12	42:BG:63:ILE:C	2.36	0.46
41:DF:195:ASP:HB3	41:DF:198:ALA:HB3	1.97	0.46
36:BA:2688:U:C3'	36:BA:2688:U:O2	2.61	0.46
32:B6:11:LEU:HD22	32:B6:11:LEU:C	2.35	0.46
28:D2:5:GLU:O	28:D2:9:GLN:HG3	2.14	0.46
49:DR:28:LEU:HD11	49:DR:114:VAL:HG12	1.96	0.46
13:CM:69:GLU:HG2	30:D4:43:TYR:HH	1.76	0.46
47:DP:83:VAL:HG11	47:DP:112:LEU:HD21	1.95	0.46
36:BA:2305:A:H2'	36:BA:2306:C:O4'	2.14	0.46
27:B1:76:ARG:NH2	27:B1:95:LEU:CB	2.77	0.46
51:DT:64:ARG:HD2	51:DT:73:GLU:OE2	2.15	0.46
56:BY:49:VAL:O	56:BY:51:VAL:HG23	2.15	0.46
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HD3	2.46	0.46
36:DA:112:U:H2'	36:DA:113:G:H5'	1.97	0.46
27:D1:76:ARG:HH22	27:D1:95:LEU:CD2	2.28	0.46
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.79	0.46
46:BO:17:ARG:HH21	46:BO:47:ILE:HD11	1.80	0.46
13:AM:3:ARG:HG2	13:AM:9:ILE:CG1	2.45	0.46
40:BE:132:HIS:CG	40:BE:135:HIS:NE2	2.83	0.46
40:BE:32:PRO:HA	40:BE:90:THR:HA	1.96	0.46
10:CJ:94:VAL:HG12	10:CJ:95:GLU:H	1.80	0.46
51:BT:128:GLU:O	51:BT:130:ALA:N	2.48	0.46
20:AT:11:SER:HA	20:AT:13:LEU:HD11	1.97	0.46
36:BA:507:A:H4'	36:BA:509:C:C6	2.50	0.46
36:DA:1656:C:H2'	36:DA:1657:C:H6	1.80	0.46
4:CD:187:ARG:HG2	4:CD:187:ARG:HH11	1.79	0.46
25:CY:78:ARG:C	25:CY:79:ILE:HG13	2.33	0.46
36:BA:2673:G:H5'	36:BA:2673:G:H8	1.79	0.46
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.96	0.46
43:BH:85:LYS:HE3	43:BH:145:ALA:CB	2.42	0.46
51:DT:5:ALA:O	51:DT:6:LEU:C	2.53	0.46
1:CA:186:C:C2	1:CA:187:C:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:49:HIS:CA	52:DU:52:ARG:HB2	2.44	0.46
36:DA:1491:G:H2'	36:DA:1491:G:N3	2.30	0.46
12:CL:22:SER:C	12:CL:24:VAL:H	2.19	0.46
12:CL:91:LYS:HZ3	12:CL:91:LYS:HB2	1.80	0.46
46:DO:97:ARG:HG3	46:DO:97:ARG:NH1	2.30	0.46
36:DA:1192:G:H2'	36:DA:1193:G:O4'	2.14	0.46
36:DA:177:G:H3'	36:DA:178:G:C8	2.51	0.46
25:AY:352:VAL:HG23	25:AY:377:VAL:CG2	2.42	0.46
33:B7:8:ASN:C	33:B7:8:ASN:ND2	2.68	0.46
36:BA:882:G:H22	36:BA:894:C:N4	2.13	0.46
50:BS:40:ILE:CG2	50:BS:41:ASP:H	2.23	0.46
36:BA:1776:G:N2	36:BA:1789:A:H1'	2.31	0.46
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.46	0.46
37:DB:77:U:P	57:DZ:19:ARG:HH22	2.38	0.46
36:DA:1116:C:H2'	36:DA:1117:G:C8	2.49	0.46
36:BA:753:C:H2'	36:BA:754:C:C6	2.50	0.46
1:CA:1271:G:H2'	1:CA:1272:G:H8	1.80	0.46
36:DA:139(A):G:H22	55:DX:44:GLU:CD	2.18	0.46
25:CY:517:LEU:HD11	25:CY:564:LYS:HB2	1.96	0.46
28:B2:64:LEU:HD22	28:B2:64:LEU:O	2.15	0.46
25:AY:128:TYR:O	25:AY:129:LYS:CB	2.63	0.46
36:DA:2192:G:C3'	36:DA:2193:G:H5''	2.45	0.46
43:DH:127:GLU:HB2	43:DH:130:ARG:H	1.78	0.46
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.45	0.46
36:DA:2818:G:H4'	36:DA:2837:G:C4'	2.45	0.46
36:BA:2704:C:C2'	36:BA:2705:A:H5'	2.45	0.46
36:BA:2428:G:H4'	36:BA:2429:G:O5'	2.15	0.46
27:D1:17:SER:HB3	27:D1:38:SER:OG	2.15	0.46
36:BA:2542:A:H4'	36:BA:2543:G:C8	2.50	0.46
1:CA:64:G:N2	1:CA:67:C:C4	2.83	0.46
37:DB:5:C:O2'	37:DB:6:C:H5'	2.15	0.46
36:DA:2553:G:H2'	36:DA:2554:U:C4'	2.45	0.46
17:AQ:43:LEU:HD12	17:AQ:68:ARG:HB3	1.97	0.46
36:DA:2835:A:N6	36:DA:2878:U:H3'	2.29	0.46
48:DQ:32:TYR:N	48:DQ:32:TYR:CD1	2.83	0.46
36:DA:1661:G:O2'	36:DA:1662:C:H5'	2.15	0.46
36:BA:572:A:C2	36:BA:2033:A:C2	3.03	0.46
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.78	0.46
20:CT:8:ARG:HH11	20:CT:8:ARG:HG3	1.79	0.46
38:DC:115:VAL:HA	38:DC:145:THR:HG22	1.97	0.46
30:D4:1:MET:SD	42:DG:98:ARG:HG3	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:18:VAL:CG2	14:AN:19:ARG:N	2.78	0.46
45:BN:3:THR:C	45:BN:4:TYR:CD1	2.88	0.46
30:B4:9:LEU:O	30:B4:10:VAL:HB	2.16	0.46
29:B3:54:VAL:HG12	29:B3:55:ARG:N	2.29	0.46
36:DA:2292:C:H2'	36:DA:2293:C:C6	2.50	0.46
37:DB:49:C:H2'	37:DB:50:G:H8	1.80	0.46
34:D8:30:ARG:NE	34:D8:30:ARG:HA	2.29	0.46
36:BA:1012:U:C5	45:BN:28:THR:HG21	2.50	0.46
36:DA:651:G:O2'	36:DA:652:C:H5'	2.16	0.46
47:BP:106:LEU:O	47:BP:107:LYS:HG2	2.14	0.46
47:BP:83:VAL:HG11	47:BP:112:LEU:HD21	1.97	0.46
41:DF:116:ASP:OD2	47:DP:5:ASP:HB2	2.15	0.46
41:BF:65:TRP:CZ3	41:BF:75:HIS:HD2	2.33	0.46
43:DH:153:LYS:CD	43:DH:154:PRO:HD2	2.33	0.46
1:CA:265:G:N2	1:CA:267:C:H5'	2.30	0.46
45:DN:133:GLN:CG	45:DN:134:ARG:H	2.23	0.46
45:BN:15:LEU:C	45:BN:15:LEU:HD13	2.35	0.46
47:DP:47:ASP:HB3	47:DP:48:PRO:C	2.35	0.46
2:CB:215:LEU:N	2:CB:215:LEU:HD22	2.30	0.46
39:BD:25:THR:HG22	39:BD:26:LYS:N	2.29	0.46
36:BA:943:U:OP2	47:BP:38:GLN:OE1	2.34	0.46
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.14	0.46
1:AA:1277:C:H3'	1:AA:1277:C:H6	1.81	0.46
36:DA:2531:A:H5''	43:DH:157:TYR:CZ	2.49	0.46
43:DH:169:VAL:O	43:DH:170:ARG:HG3	2.14	0.46
49:BR:7:GLY:HA3	49:BR:8:ARG:NH2	2.31	0.46
57:DZ:109:ALA:HB3	57:DZ:145:GLU:CA	2.44	0.46
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.42	0.46
48:BQ:21:THR:OG1	48:BQ:99:PRO:O	2.33	0.46
52:BU:49:HIS:O	52:BU:52:ARG:HB2	2.15	0.46
36:BA:280:C:H3'	36:BA:281:G:C8	2.50	0.46
20:CT:45:GLN:HB2	20:CT:91:LEU:CD1	2.41	0.46
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.72	0.46
54:BW:51:LEU:C	54:BW:51:LEU:HD13	2.35	0.46
38:BC:126:SER:C	38:BC:128:LEU:H	2.17	0.46
36:BA:2729:G:H2'	36:BA:2730:C:C6	2.50	0.46
2:CB:233:SER:OG	2:CB:234:PRO:HD2	2.15	0.46
25:AY:352:VAL:HG13	25:AY:352:VAL:O	2.15	0.46
35:D9:22:ARG:NH2	36:DA:2741:A:OP1	2.49	0.46
33:B7:27:GLY:HA2	33:B7:30:VAL:CG2	2.45	0.46
18:AR:37:VAL:CG2	18:AR:38:GLU:N	2.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:128:PRO:HG2	43:BH:129:THR:HG23	1.97	0.46
12:AL:115:LYS:O	12:AL:117:ARG:N	2.48	0.46
36:DA:1755:A:P	51:DT:113:LYS:HZ3	2.38	0.46
36:BA:603:A:O2'	36:BA:604:G:OP1	2.33	0.46
36:DA:694:U:C2'	36:DA:695:G:O5'	2.63	0.46
36:BA:2498:C:O2'	36:BA:2499:C:H5'	2.14	0.46
36:DA:1796:U:H2'	36:DA:1797:C:C6	2.50	0.46
10:AJ:47:PHE:CE2	14:AN:37:PHE:CE1	3.03	0.46
4:CD:3:ARG:HG2	4:CD:118:ARG:HE	1.80	0.46
40:DE:167:VAL:HG13	40:DE:170:LEU:HD11	1.97	0.46
1:AA:865:A:H2'	1:AA:866:C:C6	2.49	0.46
52:DU:102:GLU:HG3	53:DV:2:PHE:CE1	2.50	0.46
50:DS:42:ASP:O	50:DS:43:GLU:HB2	2.16	0.46
50:DS:48:LEU:N	50:DS:48:LEU:CD1	2.78	0.46
36:DA:425:G:O2'	36:DA:426:C:H5'	2.15	0.46
2:CB:236:TYR:O	2:CB:237:ALA:C	2.53	0.46
36:DA:268:C:H2'	36:DA:268:C:O2	2.15	0.46
30:D4:36:CYS:SG	30:D4:37:SER:N	2.87	0.46
1:AA:332:G:O2'	1:AA:333:G:H5'	2.15	0.46
25:CY:614:GLU:HG3	25:CY:641:GLN:NE2	2.30	0.46
44:DJ:11:UNK:HA	44:DJ:14:UNK:CB	2.46	0.46
36:BA:1889:A:N1	36:BA:2234:G:H1'	2.31	0.46
1:AA:983:A:H5'	1:AA:984:C:OP2	2.14	0.46
33:D7:5:TRP:CZ3	36:DA:464:U:H4'	2.49	0.46
20:AT:73:HIS:HB3	20:AT:74:LYS:CE	2.46	0.46
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.27	0.46
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.80	0.46
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.45	0.46
36:DA:437:G:H2'	36:DA:438:G:C8	2.50	0.46
1:AA:853:G:O2'	1:AA:854:G:H5'	2.14	0.46
36:DA:1629:U:H2'	36:DA:1630:G:C8	2.51	0.46
38:DC:16:ASP:O	38:DC:18:ASN:N	2.48	0.46
4:AD:168:ARG:HD2	4:AD:168:ARG:N	2.30	0.46
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.16	0.46
36:DA:768:G:H2'	36:DA:769:G:H8	1.79	0.46
36:DA:2134:A:H1'	36:DA:2158:A:H2	1.79	0.46
36:DA:2732:G:H5''	36:DA:2733:A:C8	2.50	0.46
55:DX:55:ASN:HB2	55:DX:80:ILE:CG1	2.44	0.46
36:DA:2308:G:H2'	36:DA:2309:A:C8	2.50	0.46
25:CY:491:VAL:HG13	25:CY:492:ASP:H	1.80	0.46
36:BA:1044:G:H1'	36:BA:1112:G:N2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:58:VAL:HA	57:BZ:67:LEU:O	2.15	0.46
36:DA:2584:U:O2	36:DA:2584:U:O4'	2.32	0.46
55:BX:8:ILE:H	55:BX:8:ILE:CD1	2.26	0.46
57:DZ:33:LEU:HD12	57:DZ:34:ASN:H	1.79	0.46
32:D6:11:LEU:C	32:D6:11:LEU:HD22	2.36	0.46
56:BY:37:VAL:O	56:BY:38:ILE:HB	2.15	0.46
56:BY:7:VAL:HG11	56:BY:8:LYS:HZ1	1.80	0.46
49:DR:96:ARG:O	49:DR:114:VAL:HA	2.15	0.46
23:CW:68:C:H2'	23:CW:69:C:H6	1.71	0.46
36:DA:272(G):C:C3'	36:DA:272(H):C:H5''	2.45	0.46
47:DP:112:LEU:N	47:DP:128:HIS:CD2	2.82	0.46
25:CY:610:VAL:HG12	25:CY:669:PHE:HB2	1.96	0.46
25:AY:230:LYS:HE2	25:AY:241:GLU:OE2	2.16	0.46
41:DF:188:ARG:CA	47:DP:7:ARG:HH21	2.27	0.46
39:DD:61:LEU:HB3	39:DD:63:ARG:NH1	2.25	0.46
25:CY:583:LYS:HD3	25:CY:583:LYS:C	2.35	0.46
39:DD:25:THR:O	39:DD:26:LYS:C	2.53	0.46
1:CA:255:G:O6	1:CA:266:G:O6	2.32	0.46
3:AC:35:GLU:O	3:AC:38:ARG:HG2	2.15	0.46
36:BA:142:A:H5'	36:BA:142(A):C:OP2	2.16	0.46
36:DA:675:A:OP1	41:DF:63:LYS:HE2	2.16	0.46
36:BA:2811:G:N2	36:BA:2891:G:H1'	2.31	0.46
46:BO:104:ARG:NH2	51:BT:33:LYS:HE3	2.30	0.46
47:DP:16:ARG:HD3	47:DP:17:LYS:N	2.31	0.46
36:DA:307:G:H21	36:DA:330:A:N6	2.13	0.46
36:DA:307:G:N2	36:DA:310:A:O5'	2.48	0.46
36:BA:811:U:O2	36:BA:1251:C:C5	2.69	0.46
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.48	0.46
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.57	0.46
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.62	0.46
36:BA:1505:C:C5	36:BA:1506:C:H1'	2.50	0.46
1:CA:1148:U:C2'	1:CA:1149:C:H5'	2.46	0.46
51:DT:33:LYS:HE2	51:DT:43:GLN:OE1	2.14	0.46
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HD2	2.49	0.46
1:AA:1226:C:C6	13:AM:103:THR:O	2.68	0.46
36:BA:1528:A:N1	36:BA:1542:A:H2	2.14	0.46
5:AE:91:LEU:HD13	5:AE:120:THR:CG2	2.45	0.46
39:BD:111:LEU:HD23	39:BD:127:VAL:HG12	1.97	0.46
19:CS:58:VAL:HG21	19:CS:75:ALA:CB	2.45	0.46
39:BD:112:GLN:HB2	39:BD:115:GLN:HE21	1.80	0.46
4:CD:145:GLU:C	4:CD:146:ILE:HD13	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2463:C:C2'	36:DA:2464:C:H5'	2.45	0.46
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.50	0.46
36:DA:2389:G:H5''	36:DA:2390:U:O4'	2.15	0.46
38:BC:101:ILE:H	38:BC:101:ILE:CD1	2.27	0.46
36:BA:88:G:OP1	36:BA:90:U:C5	2.58	0.46
54:BW:20:VAL:O	54:BW:23:LEU:N	2.47	0.46
49:DR:118:GLU:HA	49:DR:118:GLU:OE1	2.16	0.46
1:AA:942:G:H21	9:AI:124:GLN:NE2	2.14	0.46
38:BC:182:PRO:HB2	38:BC:185:LYS:HD2	1.97	0.46
26:D0:20:ARG:HG2	26:D0:20:ARG:HH11	1.79	0.46
49:BR:101:ALA:O	49:BR:102:GLU:HB2	2.14	0.46
36:BA:817:C:O2'	36:BA:839:U:OP1	2.33	0.46
36:DA:2364:C:H2'	36:DA:2365:G:O4'	2.16	0.46
27:D1:29:GLY:O	27:D1:31:GLY:N	2.41	0.46
36:BA:2364:C:O2'	36:BA:2365:G:H5'	2.14	0.46
1:AA:499:A:H4'	1:AA:500:G:OP1	2.15	0.46
53:BV:35:LEU:HB2	53:BV:57:VAL:CG1	2.46	0.46
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.36	0.46
12:AL:7:ILE:HG22	12:AL:8:ASN:N	2.31	0.46
43:DH:159:GLU:CG	43:DH:160:LYS:H	2.27	0.46
46:DO:22:ILE:HB	46:DO:40:VAL:O	2.15	0.46
22:AV:29:G:N2	22:AV:42:C:H1'	2.30	0.46
36:BA:1127:A:C2'	36:BA:1128:A:H5''	2.46	0.46
48:BQ:43:THR:HG22	48:BQ:94:VAL:HG12	1.96	0.46
15:CO:23:GLY:O	15:CO:27:VAL:HB	2.16	0.46
43:BH:127:GLU:HB2	43:BH:130:ARG:H	1.80	0.46
28:D2:50:ILE:C	28:D2:52:ASP:H	2.18	0.46
36:DA:1335:U:H2'	36:DA:1336:A:C8	2.50	0.46
57:BZ:96:VAL:HG22	57:BZ:97:GLU:H	1.80	0.46
46:BO:105:GLU:O	46:BO:109:LYS:CG	2.64	0.46
1:CA:337:C:H2'	1:CA:338:A:C8	2.49	0.46
2:AB:236:TYR:O	2:AB:237:ALA:C	2.53	0.46
1:CA:860:A:H2'	1:CA:861:G:O4'	2.14	0.46
36:DA:2369:A:O2'	36:DA:2370:G:H5'	2.15	0.46
1:CA:802:A:H3'	1:CA:803:G:H8	1.80	0.46
56:DY:41:GLY:O	56:DY:43:ASN:OD1	2.34	0.46
36:BA:541:C:H42	36:BA:552:G:H1	1.63	0.46
36:DA:1532:C:O2'	36:DA:1533:G:H5'	2.16	0.46
52:BU:17:ILE:CG2	52:BU:39:LEU:HD12	2.46	0.46
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.15	0.46
1:CA:256:U:H2'	1:CA:257:G:C8	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.80	0.46
36:DA:422:A:C2	36:DA:423:A:C4	3.03	0.46
36:DA:152:G:H1	36:DA:174:C:H42	1.62	0.46
46:DO:88:ASN:OD1	46:DO:92:GLU:HB2	2.16	0.46
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.50	0.46
4:CD:200:GLU:H	4:CD:200:GLU:CD	2.18	0.46
36:BA:1972:A:H2'	36:BA:1973:G:H8	1.80	0.46
56:DY:54:LYS:NZ	56:DY:54:LYS:CB	2.79	0.46
38:DC:15:VAL:HG23	38:DC:15:VAL:O	2.15	0.46
25:CY:236:GLU:HG3	25:CY:236:GLU:O	2.15	0.46
1:AA:1392:G:N2	1:AA:1502:A:C8	2.84	0.46
42:DG:33:ARG:O	42:DG:34:LEU:C	2.53	0.46
25:AY:616:TYR:CG	25:AY:663:THR:HA	2.51	0.46
25:CY:201:ILE:HG21	25:CY:206:LEU:HA	1.96	0.46
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.97	0.46
29:D3:14:GLY:O	36:DA:969:U:H4'	2.16	0.46
32:B6:35:GLU:HB3	32:B6:51:GLU:N	2.31	0.46
36:BA:2282:G:H5''	36:BA:2283:C:O4'	2.15	0.46
28:D2:7:ARG:HG3	28:D2:7:ARG:NH1	2.30	0.46
45:DN:2:LYS:HZ1	53:DV:12:TYR:HB3	1.81	0.46
25:CY:230:LYS:NZ	25:CY:230:LYS:HB2	2.30	0.46
25:AY:438:PHE:HD1	25:AY:438:PHE:O	1.99	0.46
39:BD:35:LYS:HD2	39:BD:36:PRO:HA	1.96	0.46
40:DE:111:ARG:HD2	40:DE:160:TYR:HE2	1.80	0.46
51:DT:28:VAL:O	51:DT:29:ARG:HD2	2.16	0.46
27:B1:84:GLY:O	27:B1:86:SER:N	2.48	0.46
1:CA:1442:G:H1	1:CA:1461:G:H21	1.64	0.46
26:B0:67:VAL:HG12	26:B0:68:GLU:N	2.31	0.46
34:B8:50:LEU:O	34:B8:52:LYS:N	2.40	0.46
45:BN:120:LEU:C	45:BN:120:LEU:HD13	2.36	0.46
36:DA:795:C:H2'	36:DA:796:C:C6	2.50	0.46
2:CB:21:ARG:NH2	2:CB:38:GLY:HA3	2.30	0.46
23:AW:29:G:H2'	23:AW:30:G:H8	1.80	0.46
36:BA:2712(A):A:OP2	36:BA:2714:G:OP2	2.33	0.46
47:BP:41:ARG:HH11	47:BP:41:ARG:HB3	1.80	0.46
9:CI:63:ILE:HD11	9:CI:81:ILE:HD11	1.97	0.46
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.98	0.46
25:CY:168:ILE:HD12	25:CY:176:GLY:HA3	1.98	0.46
51:DT:57:PHE:CG	51:DT:58:ASN:N	2.82	0.46
30:D4:3:GLU:HG2	37:DB:40:U:C5	2.51	0.46
43:BH:50:VAL:CG1	43:BH:51:ARG:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:170:ARG:O	43:DH:171:LEU:CB	2.62	0.46
16:CP:23:ASP:OD1	16:CP:25:ARG:N	2.46	0.46
12:AL:81:SER:O	12:AL:83:VAL:HG23	2.15	0.46
13:AM:51:ALA:O	13:AM:55:ARG:HB3	2.16	0.46
2:CB:126:GLU:HA	2:CB:129:GLU:CD	2.35	0.46
23:CW:72:A:O2'	23:CW:73:A:O5'	2.31	0.46
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.34	0.46
52:DU:50:ARG:C	52:DU:52:ARG:N	2.69	0.46
52:DU:57:PHE:C	52:DU:59:ARG:N	2.65	0.46
19:CS:31:ILE:HG21	19:CS:49:ILE:HG12	1.96	0.46
39:BD:261:LYS:NZ	39:BD:263:ARG:NH1	2.64	0.46
36:BA:1491:G:N3	36:BA:1491:G:H2'	2.31	0.46
36:DA:1818:U:H3'	39:DD:157:ARG:HG3	1.98	0.46
36:DA:1799:G:H5'	36:DA:1819:A:H61	1.79	0.46
42:BG:77:ILE:HG23	42:BG:80:PHE:H	1.76	0.46
30:B4:12:ALA:HB2	30:B4:29:PRO:HA	1.92	0.46
31:B5:25:LEU:CD1	54:BW:19:LEU:HB3	2.44	0.46
36:DA:280:C:H3'	36:DA:281:G:H8	1.80	0.46
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.61	0.46
36:DA:1675:C:O2	40:DE:129:HIS:HA	2.15	0.46
36:BA:2463:C:C2'	36:BA:2464:C:H5'	2.46	0.46
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.50	0.46
36:DA:2147:G:O2'	36:DA:2148:G:H5'	2.15	0.46
48:BQ:17:LEU:O	48:BQ:18:LYS:HD2	2.15	0.46
7:AG:5:ARG:N	7:AG:5:ARG:HD2	2.31	0.46
1:CA:298:A:H2'	1:CA:299:G:O4'	2.16	0.46
1:AA:1319:A:OP1	19:AS:10:PHE:CZ	2.68	0.46
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.15	0.46
48:DQ:87:LYS:CG	48:DQ:88:GLY:H	2.28	0.46
36:BA:756:C:C2'	36:BA:757:U:H5'	2.44	0.46
36:DA:2685:G:H5'	46:DO:68:GLU:OE2	2.15	0.46
36:DA:851:U:H2'	36:DA:852:G:H8	1.81	0.46
57:BZ:99:TYR:HA	57:BZ:124:ILE:O	2.15	0.46
1:AA:819:A:H4'	1:AA:820:U:OP2	2.16	0.46
1:CA:1171:G:H2'	1:CA:1172:C:C6	2.50	0.46
22:AV:66:U:H2'	22:AV:67:C:C6	2.51	0.46
36:DA:158:U:H3'	36:DA:158:U:O2	2.15	0.46
50:DS:42:ASP:O	50:DS:43:GLU:CB	2.64	0.46
36:DA:826:U:H5''	36:DA:2428:G:O3'	2.16	0.46
37:DB:53:A:C2	37:DB:54:G:C8	3.04	0.46
32:D6:42:TRP:CH2	36:DA:643:A:N7	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.80	0.46
36:BA:268:C:O2	36:BA:268:C:H2'	2.14	0.46
36:DA:2861:G:C4	36:DA:2862:G:C8	3.04	0.46
39:DD:96:HIS:CE1	39:DD:102:LYS:CE	2.99	0.46
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.79	0.46
36:BA:331:A:O2'	36:BA:332:A:OP1	2.30	0.46
36:BA:2033:A:O2'	36:BA:2034:U:P	2.73	0.46
43:DH:128:PRO:HG2	43:DH:129:THR:HG23	1.97	0.46
20:CT:37:SER:O	20:CT:41:ILE:HG12	2.16	0.46
36:BA:2432:A:O2'	36:BA:2433:A:H5'	2.15	0.46
38:DC:149:ASN:N	38:DC:149:ASN:HD22	2.12	0.46
15:AO:10:LYS:O	15:AO:10:LYS:HD2	2.16	0.46
36:DA:2233:U:H2'	36:DA:2234:G:C8	2.50	0.46
17:AQ:27:PHE:CZ	17:AQ:36:ILE:HD11	2.51	0.46
25:CY:497:PHE:N	25:CY:508:GLY:O	2.48	0.46
38:DC:101:ILE:H	38:DC:101:ILE:CD1	2.28	0.46
38:DC:104:ILE:HG22	38:DC:131:ILE:HG21	1.98	0.46
1:AA:926:G:H22	24:AX:15:G:H3'	1.80	0.46
42:DG:54:GLU:O	42:DG:57:ALA:HB3	2.16	0.46
25:CY:437:THR:HB	25:CY:454:MET:CE	2.44	0.46
25:CY:90:PHE:HE2	59:CY:701:FUA:C11	2.29	0.46
25:CY:97:SER:O	25:CY:100:VAL:HG12	2.15	0.46
25:AY:15:ILE:C	25:AY:15:ILE:HD12	2.35	0.46
41:BF:3:GLU:CB	41:BF:24:LEU:HG	2.44	0.46
41:DF:3:GLU:CB	41:DF:24:LEU:HG	2.44	0.46
53:BV:15:GLU:O	53:BV:16:PRO:C	2.53	0.46
36:DA:2307:G:C2	36:DA:2308:G:H5''	2.51	0.46
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.16	0.46
45:BN:3:THR:HG22	45:BN:5:VAL:HG23	1.98	0.46
32:D6:35:GLU:HB3	32:D6:51:GLU:N	2.30	0.46
32:B6:35:GLU:O	32:B6:36:LEU:HB2	2.15	0.46
34:B8:33:ASN:CA	34:B8:36:LYS:HD2	2.46	0.46
45:BN:67:LEU:HB3	45:BN:88:GLU:HG3	1.94	0.46
36:DA:1453:U:H2'	36:DA:1455:G:C8	2.50	0.46
32:B6:15:GLU:HB3	32:B6:20:ASN:HB2	1.96	0.46
36:DA:650:C:H2'	36:DA:651:G:H5''	1.98	0.46
36:BA:1494:A:O2'	36:BA:1495:A:OP2	2.31	0.46
36:BA:962:G:C2'	36:BA:963:U:H5'	2.45	0.46
36:BA:2307:G:H3'	36:BA:2307:G:N3	2.30	0.46
27:B1:86:SER:HB2	27:B1:90:ILE:CG1	2.44	0.46
43:DH:156:ALA:C	43:DH:158:HIS:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:47:ASP:HB3	47:BP:48:PRO:O	2.16	0.46
25:AY:196:ILE:CG1	25:AY:197:ARG:N	2.74	0.46
13:CM:3:ARG:HG2	13:CM:9:ILE:CG1	2.46	0.46
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.16	0.46
36:DA:194:G:H2'	36:DA:195:A:O4'	2.15	0.46
47:DP:50:ARG:NH1	47:DP:50:ARG:HG2	2.31	0.46
47:DP:57:THR:OG1	47:DP:59:LEU:HB2	2.16	0.46
23:AW:30:G:H2'	23:AW:31:G:C5'	2.45	0.46
1:CA:1277:C:H6	1:CA:1277:C:H3'	1.81	0.46
2:AB:24:TRP:CH2	2:AB:26:PRO:HA	2.50	0.46
5:AE:150:ARG:HA	5:AE:153:LYS:HE2	1.96	0.46
37:DB:40:U:H3'	37:DB:41:U:C5'	2.44	0.46
27:B1:44:PRO:HB2	27:B1:46:LEU:HD12	1.97	0.46
13:AM:120:LYS:HD2	13:AM:120:LYS:N	2.31	0.46
16:CP:5:ARG:HE	16:CP:22:THR:CG2	2.28	0.46
36:DA:1558:A:HO2'	36:DA:1559:G:P	2.39	0.46
42:BG:106:LEU:HA	42:BG:110:ALA:CB	2.46	0.46
25:AY:147:TRP:HZ3	25:AY:163:VAL:HG11	1.81	0.46
1:CA:1026:G:H3'	1:CA:1027:C:H5'	1.97	0.46
10:AJ:61:GLU:HG3	14:AN:58:LYS:HZ3	1.81	0.46
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.16	0.46
48:DQ:21:THR:C	48:DQ:23:GLY:H	2.19	0.46
4:CD:26:CYS:O	4:CD:31:CYS:HB2	2.15	0.46
43:BH:86:GLU:N	43:BH:86:GLU:OE1	2.47	0.46
6:AF:43:LEU:CD1	6:AF:43:LEU:H	2.23	0.46
48:BQ:21:THR:C	48:BQ:23:GLY:H	2.19	0.46
3:CC:159:GLY:HA2	3:CC:193:TYR:CE1	2.51	0.46
36:DA:2756:U:H1'	36:DA:2757:A:C8	2.51	0.46
52:BU:49:HIS:CA	52:BU:52:ARG:HB2	2.46	0.46
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.25	0.46
49:DR:117:VAL:HG12	49:DR:118:GLU:N	2.29	0.46
3:AC:157:ILE:C	3:AC:159:GLY:N	2.69	0.46
1:CA:1298:C:O2'	1:CA:1299:A:C2	2.69	0.46
36:DA:887:A:N3	36:DA:887:A:H2'	2.30	0.46
56:DY:31:LEU:HB2	56:DY:32:PRO:CA	2.44	0.46
36:BA:1192:G:H2'	36:BA:1193:G:O4'	2.15	0.46
50:DS:58:LEU:HD23	50:DS:65:VAL:HG13	1.97	0.46
37:BB:91:C:C5'	48:BQ:17:LEU:O	2.63	0.46
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.49	0.46
53:DV:35:LEU:HB2	53:DV:57:VAL:CG1	2.46	0.46
50:BS:51:ALA:HB3	50:BS:73:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:12:ARG:HH11	49:DR:12:ARG:CG	2.29	0.46
12:CL:11:VAL:HG13	17:CQ:29:HIS:HD2	1.79	0.46
36:DA:2115:G:H3'	36:DA:2116:G:H5''	1.98	0.46
46:BO:21:CYS:SG	46:BO:22:ILE:N	2.87	0.46
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.58	0.46
36:DA:300:A:P	56:DY:97:ARG:HE	2.38	0.46
27:B1:45:ASN:HD22	27:B1:45:ASN:C	2.17	0.46
47:BP:108:LYS:O	47:BP:110:TYR:N	2.48	0.46
45:DN:14:VAL:HG11	45:DN:137:LYS:CD	2.45	0.46
36:DA:1930:G:C2'	36:DA:1931:U:OP2	2.63	0.46
36:BA:723:G:H2'	36:BA:724:U:H6	1.77	0.46
1:AA:918:A:H2'	1:AA:919:A:O4'	2.16	0.46
36:BA:1930:G:C2'	36:BA:1931:U:OP2	2.62	0.46
52:BU:102:GLU:HG3	53:BV:2:PHE:CE1	2.50	0.46
36:DA:750:A:H3'	36:DA:751:A:H5''	1.98	0.46
7:CG:112:PRO:HG2	7:CG:113:GLU:OE2	2.16	0.46
27:D1:52:ARG:NH2	36:DA:2218:U:C1'	2.78	0.46
1:AA:907:A:H2'	1:AA:908:A:O4'	2.16	0.46
36:DA:1441:G:O2'	36:DA:1442:G:H5'	2.16	0.46
1:CA:398:C:H2'	1:CA:399:G:H8	1.81	0.46
44:BJ:7:UNK:O	44:BJ:10:UNK:CB	2.64	0.46
52:BU:70:ARG:HA	52:BU:74:LEU:O	2.15	0.46
1:CA:665:A:H2'	1:CA:725:G:N2	2.30	0.46
8:CH:27:PRO:HA	8:CH:58:TYR:CD1	2.51	0.46
36:BA:1446:C:H2'	36:BA:1447:G:H8	1.81	0.46
17:AQ:76:LEU:HD21	17:AQ:79:SER:HB2	1.96	0.46
1:CA:373:A:C2	1:CA:482:A:C6	3.04	0.46
38:DC:26:ALA:O	38:DC:27:ALA:C	2.53	0.46
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.15	0.46
25:AY:591:LYS:HD3	25:AY:591:LYS:HA	1.73	0.46
2:AB:53:ARG:O	2:AB:53:ARG:HG2	2.14	0.46
36:BA:2550:G:C6	36:BA:2551:C:N4	2.84	0.46
24:CX:11:A:O2'	24:CX:12:A:O5'	2.31	0.46
24:CX:12:A:H5''	24:CX:13:A:OP2	2.15	0.46
24:AX:11:A:C2'	24:AX:11:A:N3	2.79	0.46
25:AY:130:VAL:O	25:AY:132:ARG:NH2	2.49	0.46
27:B1:12:PRO:HG3	36:BA:1365:A:H5'	1.98	0.46
40:BE:38:THR:O	40:BE:42:ASP:HB2	2.16	0.46
53:DV:15:GLU:O	53:DV:16:PRO:C	2.53	0.46
3:AC:47:LEU:CD1	3:AC:76:VAL:HG12	2.44	0.46
3:AC:52:LEU:HA	3:AC:70:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B4:1:MET:CE	42:BG:98:ARG:HG3	2.46	0.46
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.15	0.46
36:BA:2050:C:H2'	36:BA:2051:A:O4'	2.16	0.46
57:DZ:56:VAL:C	57:DZ:57:ILE:HD12	2.36	0.46
25:AY:487:ILE:CD1	25:AY:563:ILE:CG2	2.94	0.46
34:B8:36:LYS:O	34:B8:37:SER:C	2.54	0.46
36:BA:363:G:H2'	36:BA:363(A):A:C8	2.50	0.46
55:DX:8:ILE:H	55:DX:8:ILE:CD1	2.28	0.46
49:DR:29:LEU:HB3	49:DR:75:LEU:HD11	1.96	0.46
28:B2:38:GLN:C	28:B2:40:SER:N	2.68	0.46
25:AY:465:ARG:O	25:AY:470:PHE:HD2	1.99	0.46
27:B1:94:LEU:O	27:B1:95:LEU:C	2.54	0.46
41:BF:62:ARG:HH21	41:BF:64:ILE:HA	1.81	0.46
41:BF:69:HIS:N	41:BF:69:HIS:CD2	2.82	0.46
25:AY:503:GLY:C	25:AY:505:GLY:N	2.69	0.46
28:B2:69:ARG:NH2	36:BA:111:A:H4'	2.27	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.31	0.46
1:AA:265:G:H2'	1:AA:267:C:H5	1.80	0.46
57:DZ:158:PRO:HD2	57:DZ:161:VAL:HG21	1.97	0.46
47:DP:58:THR:O	47:DP:61:ARG:CG	2.63	0.46
57:DZ:102:LEU:HD21	57:DZ:124:ILE:CD1	2.46	0.46
11:CK:111:ASP:OD1	18:CR:84:LYS:HE2	2.15	0.46
54:BW:25:ARG:NH2	54:BW:74:ALA:O	2.49	0.46
48:DQ:110:THR:HG23	48:DQ:113:GLN:H	1.80	0.46
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.97	0.46
42:BG:93:THR:HG22	42:BG:94:LEU:N	2.30	0.46
57:DZ:7:ALA:HA	57:DZ:39:VAL:HG12	1.97	0.46
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.50	0.46
1:AA:1442(B):A:C2	51:BT:118:ARG:NH2	2.82	0.46
26:B0:41:ARG:O	26:B0:42:GLY:O	2.33	0.46
36:DA:2876:G:H4'	51:DT:3:ARG:CD	2.45	0.46
20:CT:89:ARG:HD2	20:CT:104:LEU:HG	1.97	0.46
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.16	0.46
23:CW:10:G:H2'	23:CW:11:A:H8	1.81	0.46
38:DC:73:VAL:O	38:DC:73:VAL:HG13	2.16	0.46
26:B0:10:THR:CG2	26:B0:11:ARG:H	2.22	0.46
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.16	0.46
4:AD:19:LEU:CD2	4:AD:21:LEU:HD21	2.45	0.46
36:DA:1827:C:H2'	36:DA:1828:G:C5'	2.45	0.46
36:DA:886:C:O2'	36:DA:887:A:H4'	2.16	0.46
12:CL:23:LYS:O	12:CL:24:VAL:CG2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:840:C:O2'	36:BA:1192:G:H4'	2.16	0.46
50:DS:56:LEU:O	50:DS:58:LEU:N	2.49	0.46
36:DA:840:C:C3'	36:DA:841:A:H5''	2.46	0.46
36:BA:2745:C:H2'	36:BA:2746:U:C6	2.51	0.46
7:AG:83:ALA:HB1	7:AG:85:TYR:CE1	2.51	0.46
25:CY:346:LYS:HE2	25:CY:384:ILE:HG12	1.97	0.46
1:AA:275:G:O2'	1:AA:276:G:H5'	2.15	0.46
53:DV:34:GLU:HG3	53:DV:56:SER:OG	2.15	0.46
39:DD:226:MET:HB3	39:DD:230:ASP:CB	2.45	0.46
47:DP:64:LYS:O	47:DP:66:GLY:N	2.42	0.46
36:DA:1843:C:H5'	39:DD:253:GLN:NE2	2.30	0.46
36:BA:245:G:OP1	47:BP:69:GLY:HA3	2.16	0.46
36:DA:1196:C:O2'	36:DA:1227:G:H4'	2.16	0.46
47:DP:71:VAL:HG12	47:DP:72:PRO:HD3	1.97	0.46
15:AO:39:LEU:CD2	15:AO:43:LEU:HG	2.46	0.46
1:AA:1305:G:C5'	21:AU:4:GLY:HA3	2.45	0.46
7:AG:143:ARG:O	7:AG:145:ALA:O	2.33	0.46
33:D7:10:ARG:NH1	33:D7:14:LYS:CE	2.78	0.46
40:DE:104:VAL:HG22	40:DE:198:VAL:HG22	1.97	0.46
28:D2:17:SER:CB	28:D2:18:PRO:HD2	2.46	0.46
43:BH:40:GLU:HG3	43:BH:64:LEU:CD1	2.46	0.46
36:DA:2275:C:O2	48:DQ:85:LYS:HD3	2.16	0.46
5:CE:20:GLN:NE2	5:CE:25:ARG:NH2	2.64	0.46
53:BV:32:THR:CG2	53:BV:33:VAL:N	2.78	0.46
53:DV:43:GLU:O	53:DV:44:LYS:HB2	2.15	0.46
1:CA:813:U:O2'	1:CA:814:A:H5'	2.15	0.46
42:BG:172:LEU:O	42:BG:176:LEU:HG	2.15	0.46
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.15	0.46
1:AA:977:A:C2'	1:AA:978:A:H5'	2.46	0.46
38:DC:216:THR:OG1	38:DC:217:THR:N	2.49	0.46
46:BO:88:ASN:HD21	46:BO:90:GLN:HB2	1.81	0.46
20:AT:73:HIS:HB3	20:AT:74:LYS:HE2	1.96	0.46
36:DA:265:A:H1'	36:DA:266:G:H1'	1.98	0.46
36:DA:1838:C:O2'	36:DA:1839:G:H5''	2.16	0.46
36:BA:1996:C:H4'	36:BA:1997:G:H5'	1.97	0.46
1:AA:1123:A:O3'	10:AJ:36:GLY:HA3	2.15	0.46
2:AB:162:ILE:HG22	2:AB:182:ILE:HG22	1.97	0.46
52:DU:70:ARG:NH2	52:DU:75:ASN:HB2	2.31	0.46
30:D4:45:GLY:O	30:D4:46:GLN:HB2	2.14	0.46
41:DF:46:ARG:HG3	41:DF:46:ARG:HH11	1.81	0.46
33:B7:5:TRP:CZ3	36:BA:464:U:H4'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1199:U:H2'	36:BA:1200:C:C6	2.51	0.46
36:DA:347:A:H2'	36:DA:348:G:H8	1.81	0.46
19:AS:79:THR:O	19:AS:80:TYR:HB3	2.16	0.46
36:BA:238:C:H2'	36:BA:239:U:O4'	2.15	0.46
44:DJ:75:UNK:C	44:DJ:77:UNK:H	2.27	0.46
1:AA:445:G:H2'	1:AA:446:G:H8	1.80	0.46
42:DG:71:THR:HG23	42:DG:89:GLY:CA	2.45	0.46
25:AY:613:PRO:O	25:AY:615:GLU:N	2.48	0.46
25:CY:170:ARG:NH2	25:CY:205:TYR:HE1	2.12	0.46
25:CY:496:LYS:HG3	25:CY:509:HIS:HD2	1.81	0.46
25:CY:590:ILE:HG22	25:CY:590:ILE:O	2.16	0.46
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.46	0.46
45:BN:46:VAL:HG11	45:BN:48:MET:SD	2.56	0.46
50:BS:98:VAL:HG12	50:BS:100:ALA:HB2	1.98	0.46
10:CJ:32:ALA:HB1	10:CJ:76:ASN:HB3	1.96	0.46
50:DS:89:ARG:NH1	50:DS:89:ARG:HG2	2.29	0.46
32:D6:5:VAL:CG1	32:D6:6:ARG:N	2.78	0.46
25:AY:555:LEU:HD21	25:AY:599:PRO:CG	2.42	0.46
25:CY:230:LYS:NZ	25:CY:237:PRO:HA	2.31	0.46
40:DE:134:ILE:CD1	40:DE:134:ILE:N	2.76	0.46
36:DA:2050:C:H2'	36:DA:2051:A:O4'	2.16	0.46
36:DA:2720:U:H2'	36:DA:2721:A:O4'	2.15	0.46
36:BA:650:C:H2'	36:BA:651:G:H5"	1.98	0.46
47:BP:83:VAL:HG23	47:BP:105:LEU:HD13	1.96	0.46
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.97	0.46
36:BA:796:C:H2'	36:BA:797:C:H6	1.77	0.46
34:B8:23:VAL:HG13	34:B8:47:LYS:O	2.16	0.46
22:AV:2:C:H42	22:AV:71:G:H1	1.63	0.46
3:AC:32:LEU:HD22	3:AC:59:ARG:NH1	2.31	0.46
45:DN:15:LEU:HD13	45:DN:15:LEU:C	2.35	0.46
28:B2:69:ARG:HH22	36:BA:111:A:C5'	2.28	0.46
45:BN:131:GLN:HE22	45:BN:133:GLN:CA	2.28	0.46
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.15	0.46
47:DP:16:ARG:O	47:DP:16:ARG:NH1	2.42	0.46
14:AN:14:PRO:O	14:AN:15:LYS:O	2.34	0.46
40:DE:69:LYS:HG2	40:DE:90:THR:OG1	2.15	0.46
56:BY:17:SER:HB3	56:BY:71:LYS:HB3	1.97	0.46
40:BE:32:PRO:HA	40:BE:90:THR:HG23	1.97	0.46
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HD12	1.97	0.46
36:DA:1258:C:O4'	41:DF:84:VAL:HG21	2.16	0.46
36:BA:1517:G:O2'	36:BA:1518:U:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:196:LEU:C	4:AD:198:VAL:H	2.19	0.46
39:BD:183:ARG:NH1	39:BD:183:ARG:CG	2.75	0.46
43:DH:87:LEU:N	43:DH:131:VAL:O	2.43	0.46
57:DZ:9:TYR:OH	57:DZ:61:LEU:HD13	2.15	0.46
1:AA:1321:C:C5'	1:AA:1322:C:C5'	2.93	0.46
26:B0:19:LYS:CD	26:B0:41:ARG:HH22	2.28	0.46
1:AA:186:C:C2	1:AA:187:C:C5	3.03	0.46
20:AT:86:ARG:O	20:AT:90:GLN:HG3	2.15	0.46
36:BA:409:C:H2'	36:BA:410:G:C8	2.51	0.46
36:DA:863:A:H2'	36:DA:864:G:C8	2.50	0.46
36:BA:1614:A:H62	54:BW:93:ALA:CB	2.23	0.46
1:AA:1511:G:C6	1:AA:1512:U:C4	3.04	0.46
36:DA:1788:C:H2'	36:DA:1789:A:O4'	2.15	0.46
22:CV:3:C:C2'	22:CV:4:C:H5'	2.46	0.46
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	2.16	0.46
46:BO:13:ASN:ND2	46:BO:97:ARG:HG3	2.31	0.46
25:AY:580:MET:SD	36:BA:1913:A:N6	2.88	0.46
48:DQ:59:ARG:O	48:DQ:60:ARG:HB2	2.16	0.46
11:CK:30:VAL:HG23	11:CK:30:VAL:O	2.15	0.46
1:AA:392:G:H2'	1:AA:393:A:C8	2.49	0.46
56:BY:31:LEU:HB2	56:BY:32:PRO:CA	2.45	0.46
47:BP:92:GLU:HG3	47:BP:93:GLY:N	2.28	0.46
25:CY:413:ILE:HG12	25:CY:424:LEU:HD21	1.97	0.46
43:BH:149:ARG:HA	43:BH:162:ILE:CG1	2.44	0.46
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.51	0.46
36:BA:604:G:O2'	36:BA:605:C:H5'	2.15	0.46
1:CA:991:U:C4	1:CA:1212:U:H1'	2.51	0.46
36:BA:1843:C:H2'	36:BA:1844:C:C6	2.51	0.46
49:DR:53:HIS:HD1	49:DR:53:HIS:C	2.18	0.46
48:DQ:37:LEU:HD12	48:DQ:128:LYS:HB3	1.97	0.46
36:DA:271(B):C:O2'	36:DA:271(C):C:H5'	2.15	0.46
48:BQ:45:GLN:H	48:BQ:45:GLN:CD	2.15	0.46
36:BA:2230:G:H2'	36:BA:2231:C:C6	2.51	0.46
45:BN:14:VAL:HG11	45:BN:137:LYS:CD	2.45	0.46
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.15	0.46
47:BP:108:LYS:N	47:BP:108:LYS:HD2	2.30	0.46
47:DP:108:LYS:O	47:DP:110:TYR:N	2.48	0.46
39:BD:240:ALA:HB1	39:BD:241:PRO:HD2	1.97	0.46
42:DG:169:ALA:O	42:DG:173:LEU:HG	2.16	0.46
1:CA:405:U:OP2	4:CD:3:ARG:HD2	2.16	0.46
4:AD:192:GLU:N	4:AD:192:GLU:CD	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DJ:35:UNK:O	44:DJ:37:UNK:N	2.48	0.46
33:B7:36:GLN:C	33:B7:38:GLY:N	2.69	0.46
1:AA:46:G:H2'	1:AA:366:C:H5	1.81	0.46
1:AA:413:G:N2	1:AA:428:G:H1'	2.31	0.46
7:CG:108:ALA:HB2	7:CG:123:GLU:HG2	1.97	0.46
36:DA:221:A:H4'	36:DA:222:A:O5'	2.16	0.46
8:AH:39:LEU:HD22	8:AH:39:LEU:H	1.81	0.46
36:DA:2773:C:O2'	36:DA:2774:C:H5'	2.16	0.46
36:DA:1632:A:H2'	36:DA:1633:G:C8	2.50	0.46
36:DA:2039:C:O2'	36:DA:2040:C:H5'	2.15	0.46
36:DA:2155:G:O2'	36:DA:2156:G:H5'	2.16	0.46
56:BY:43:ASN:ND2	56:BY:64:GLU:HG3	2.31	0.46
1:AA:853:G:H2'	1:AA:854:G:H8	1.81	0.46
52:DU:75:ASN:ND2	52:DU:77:SER:OG	2.48	0.46
1:AA:429:U:H1'	1:AA:430:A:H5''	1.97	0.46
52:BU:97:ASP:C	52:BU:99:ALA:H	2.19	0.46
33:B7:32:LYS:HE2	36:BA:180:G:P	2.56	0.46
36:DA:1248:G:C5	52:DU:3:ARG:HD2	2.50	0.46
1:AA:61:G:OP1	20:AT:10:LEU:HD11	2.15	0.46
1:CA:1056:U:H4'	3:CC:163:ALA:HB2	1.97	0.46
36:BA:2266:A:H4'	36:BA:2267:A:N3	2.31	0.46
1:CA:853:G:O2'	1:CA:854:G:H5'	2.16	0.46
13:AM:88:ARG:HG2	13:AM:88:ARG:HH11	1.80	0.46
36:BA:106:C:O2	36:BA:106:C:H2'	2.15	0.46
25:CY:123:ARG:HG3	25:CY:123:ARG:NH1	2.31	0.46
26:D0:36:ILE:O	26:D0:36:ILE:HG13	2.15	0.46
36:DA:764:A:N3	39:DD:213:ARG:NH1	2.64	0.46
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.51	0.46
39:DD:197:GLY:O	39:DD:198:ASN:HB3	2.15	0.46
25:CY:503:GLY:C	25:CY:505:GLY:N	2.68	0.46
24:AX:13:A:OP1	24:AX:14:U:OP1	2.33	0.46
42:DG:62:LEU:HD12	42:DG:62:LEU:N	2.28	0.46
57:DZ:14:LYS:HB2	57:DZ:17:ALA:HB2	1.98	0.46
25:CY:317:MET:O	25:CY:325:LEU:HB2	2.15	0.46
25:AY:619:ASP:CG	43:BH:175:LYS:HE2	2.37	0.46
36:DA:2309:A:H2'	36:DA:2310:A:C5'	2.45	0.46
45:BN:2:LYS:HZ1	53:BV:12:TYR:HB3	1.81	0.46
49:BR:100:LEU:N	49:BR:100:LEU:HD13	2.30	0.46
25:AY:395:PRO:O	25:AY:397:VAL:N	2.47	0.46
56:BY:102:CYS:SG	56:BY:103:GLY:N	2.89	0.46
36:DA:996:A:O3'	52:DU:92:ARG:CG	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:19:LYS:HZ1	53:DV:22:VAL:HG13	1.81	0.46
32:B6:43:CYS:O	32:B6:44:ARG:CB	2.64	0.46
31:D5:10:LYS:HB2	36:DA:2017:U:O2	2.16	0.46
45:DN:58:ASP:OD2	45:DN:59:LYS:HG2	2.15	0.46
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.16	0.46
25:CY:556:ILE:HG22	25:CY:687:LEU:O	2.16	0.46
47:DP:7:ARG:CB	47:DP:8:PRO:CD	2.93	0.46
47:DP:9:ASN:N	47:DP:10:PRO:HD2	2.30	0.46
39:DD:34:VAL:O	39:DD:36:PRO:HG2	2.15	0.46
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.16	0.46
28:D2:32:LEU:HD22	28:D2:36:ARG:NH1	2.31	0.46
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.16	0.46
26:D0:25:ARG:HG2	26:D0:25:ARG:HH11	1.81	0.46
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.16	0.46
36:DA:2476:A:C2	36:DA:2477:C:C5	3.04	0.46
38:BC:28:ARG:NH1	38:BC:28:ARG:CG	2.73	0.46
36:BA:814:C:C5	47:BP:27:HIS:ND1	2.84	0.46
13:AM:7:VAL:HG12	13:AM:7:VAL:O	2.16	0.46
39:BD:26:LYS:CA	39:BD:26:LYS:HE2	2.45	0.46
40:BE:69:LYS:O	40:BE:70:ALA:C	2.54	0.46
9:CI:79:LEU:HD13	9:CI:83:ARG:HB2	1.97	0.46
36:BA:1480:G:C5	36:BA:1481:U:C5	3.04	0.46
41:BF:133:ASN:N	41:BF:133:ASN:HD22	2.12	0.46
23:AW:51:C:H2'	23:AW:52:G:C5'	2.46	0.46
57:DZ:63:ASP:HB2	57:DZ:65:GLN:HG3	1.97	0.46
1:CA:1026:G:H3'	1:CA:1027:C:C5'	2.46	0.46
1:CA:1392:G:N2	1:CA:1502:A:H8	2.13	0.46
20:AT:64:ASP:O	20:AT:67:ALA:HB3	2.15	0.46
36:DA:2876:G:C5'	51:DT:3:ARG:HA	2.46	0.46
39:BD:147:LEU:HD13	39:BD:155:LEU:CD1	2.42	0.46
20:CT:64:ASP:O	20:CT:67:ALA:HB3	2.15	0.46
48:BQ:56:ARG:HH21	57:BZ:180:VAL:CG2	2.22	0.46
43:DH:54:ARG:HG2	43:DH:54:ARG:NH1	2.31	0.46
39:DD:261:LYS:NZ	39:DD:263:ARG:NH1	2.63	0.46
12:AL:27:LEU:CB	12:AL:62:SER:HB2	2.45	0.46
39:BD:11:PRO:C	39:BD:13:ARG:H	2.16	0.46
36:DA:280:C:N4	36:DA:360:G:H1	2.13	0.46
36:BA:2756:U:H1'	36:BA:2757:A:C8	2.51	0.46
50:BS:58:LEU:HD23	50:BS:65:VAL:HG13	1.97	0.46
35:D9:27:CYS:SG	35:D9:29:ASN:ND2	2.89	0.46
37:BB:90:A:H5'	37:BB:91:C:OP2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:17:ARG:HA	50:BS:20:ARG:HH11	1.80	0.46
53:BV:35:LEU:C	53:BV:37:VAL:N	2.69	0.46
9:CI:99:LEU:HD22	9:CI:99:LEU:N	2.31	0.46
40:DE:81:ILE:CG2	40:DE:81:ILE:O	2.62	0.46
36:BA:783:A:H2'	36:BA:784:A:O5'	2.16	0.46
57:BZ:19:ARG:NH1	57:BZ:84:GLU:O	2.49	0.46
27:D1:83:GLU:OE1	27:D1:83:GLU:C	2.54	0.46
1:CA:458:C:H3'	1:CA:460:G:H8	1.81	0.46
1:CA:1452:C:OP1	1:CA:1456:G:C6	2.69	0.46
27:D1:6:GLU:O	27:D1:7:ILE:HD12	2.15	0.46
47:BP:108:LYS:C	47:BP:110:TYR:N	2.68	0.46
43:DH:33:LEU:HD21	43:DH:136:ILE:HG22	1.97	0.46
28:B2:51:ARG:O	28:B2:55:ARG:NH1	2.49	0.46
36:BA:2870:C:H2'	36:BA:2871:C:O4'	2.16	0.46
52:DU:84:LYS:C	52:DU:86:ALA:N	2.69	0.46
36:DA:733:G:O6	36:DA:761:A:C8	2.68	0.46
36:BA:733:G:O6	36:BA:761:A:C8	2.68	0.46
36:DA:566:U:C2'	36:DA:567:A:H5'	2.46	0.46
36:DA:338:G:O2'	36:DA:339:U:H5'	2.16	0.46
7:AG:108:ALA:HB2	7:AG:123:GLU:HG2	1.97	0.46
1:CA:636:U:C5'	17:CQ:2:PRO:HG3	2.46	0.46
36:BA:1532:C:O2'	36:BA:1533:G:H5'	2.16	0.46
36:DA:2154:G:N2	36:DA:2155:G:H1'	2.31	0.46
36:DA:464:U:H2'	36:DA:465:G:O4'	2.15	0.46
20:CT:73:HIS:HB3	20:CT:74:LYS:HD3	1.97	0.46
1:AA:61:G:H2'	1:AA:62:U:O4'	2.16	0.46
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.15	0.46
36:DA:1480:G:C5	36:DA:1481:U:C5	3.04	0.46
55:DX:29:TRP:CZ3	55:DX:76:ARG:HB2	2.51	0.46
25:AY:29:THR:C	25:AY:31:ARG:N	2.68	0.46
52:DU:29:SER:OG	52:DU:30:LYS:HE2	2.15	0.46
36:DA:2320:A:C2	36:DA:2333:A:C8	3.03	0.46
25:CY:507:TYR:CD1	25:CY:508:GLY:N	2.84	0.46
25:CY:327:PHE:HD1	25:CY:327:PHE:N	2.14	0.46
43:BH:170:ARG:O	43:BH:171:LEU:CB	2.63	0.46
25:CY:147:TRP:HZ3	25:CY:163:VAL:HG21	1.80	0.46
3:CC:76:VAL:HG23	3:CC:77:ILE:N	2.31	0.46
36:BA:2720:U:C2	36:BA:2721:A:C8	3.04	0.46
36:BA:2722:G:H2'	36:BA:2723:C:H6	1.78	0.46
32:D6:54:ILE:HD13	36:DA:2420:C:C5'	2.46	0.46
39:BD:132:PRO:O	39:BD:133:LEU:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:23:LEU:HB3	45:BN:60:ILE:CG2	2.40	0.46
45:BN:58:ASP:HB3	45:BN:95:PRO:HB2	1.98	0.46
36:DA:2881:C:C2	36:DA:2882:A:C8	3.04	0.46
32:D6:20:ASN:ND2	32:D6:44:ARG:HH22	2.12	0.46
45:DN:57:ALA:O	45:DN:58:ASP:C	2.52	0.46
39:BD:35:LYS:HA	39:BD:64:ILE:H	1.79	0.46
25:AY:260:LEU:N	25:AY:260:LEU:HD13	2.31	0.46
47:BP:107:LYS:C	47:BP:109:GLY:H	2.19	0.46
25:AY:411:VAL:HG23	25:AY:459:LEU:CD2	2.45	0.46
39:DD:30:GLU:CG	39:DD:63:ARG:NH2	2.79	0.46
20:AT:53:LEU:HB3	20:AT:102:GLY:HA3	1.98	0.46
28:D2:65:ASN:HD21	36:DA:112:U:C5'	2.29	0.46
36:DA:2296:U:C4'	36:DA:2297:C:OP1	2.62	0.46
9:CI:89:ASN:O	9:CI:92:TYR:HB2	2.16	0.46
26:D0:27:GLU:HG3	26:D0:68:GLU:HA	1.96	0.46
36:BA:109:G:O2'	36:BA:110:G:H5'	2.15	0.46
36:DA:2809:A:C2	36:DA:2892:A:N3	2.84	0.46
47:DP:48:PRO:O	47:DP:51:PHE:N	2.45	0.46
30:D4:2:LYS:HB2	37:DB:40:U:C4	2.46	0.46
1:CA:1030(A):G:H2'	1:CA:1030(B):C:H5'	1.98	0.46
25:AY:35:TYR:C	25:AY:37:GLY:N	2.70	0.46
3:AC:7:PRO:HG3	3:AC:184:TYR:CD1	2.51	0.46
20:AT:86:ARG:HG3	20:AT:86:ARG:NH1	2.27	0.46
13:CM:81:LEU:HD12	13:CM:86:CYS:SG	2.56	0.46
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.36	0.46
36:DA:1437:C:H2'	36:DA:1438:U:C6	2.51	0.46
4:AD:13:ARG:O	4:AD:14:ARG:C	2.54	0.46
30:D4:31:ILE:HG23	30:D4:33:VAL:HG23	1.98	0.46
40:BE:55:ASN:HD21	40:BE:75:VAL:HG22	1.80	0.46
36:DA:88:G:OP1	36:DA:90:U:C5	2.57	0.46
31:B5:27:PRO:HG3	54:BW:23:LEU:CD1	2.45	0.46
36:DA:882:G:H22	36:DA:894:C:N4	2.13	0.46
1:CA:375:U:H2'	1:CA:376:G:H8	1.81	0.46
48:DQ:52:VAL:HG12	48:DQ:56:ARG:HG3	1.98	0.46
50:BS:49:VAL:CG1	50:BS:50:SER:N	2.79	0.46
36:BA:886:C:O2'	36:BA:887:A:H4'	2.15	0.46
36:BA:1676:A:H2'	36:BA:1677:A:O4'	2.16	0.46
40:DE:4:ILE:CG1	40:DE:5:LEU:N	2.78	0.46
36:DA:1721:G:C2	36:DA:1739:U:OP2	2.69	0.46
34:B8:39:LYS:HG3	34:B8:43:GLN:NE2	2.30	0.46
43:BH:94:TYR:HA	43:BH:106:THR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:447:GLY:O	25:AY:448:GLN:O	2.33	0.46
36:BA:2414:G:C2	36:BA:2415:G:C8	3.04	0.46
1:AA:1296:C:C5'	1:AA:1297:C:OP2	2.63	0.46
49:DR:11:ASN:O	49:DR:12:ARG:CB	2.63	0.46
2:AB:134:GLU:O	2:AB:137:ARG:HB3	2.15	0.46
2:CB:134:GLU:O	2:CB:137:ARG:HB3	2.15	0.46
1:CA:1074:G:O2'	1:CA:1075:C:H5'	2.16	0.46
25:AY:228:MET:CE	25:AY:229:LEU:HG	2.45	0.46
47:BP:13:ASN:N	47:BP:13:ASN:ND2	2.64	0.46
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.63	0.46
25:CY:688:ILE:CD1	25:CY:688:ILE:N	2.79	0.46
1:CA:66:G:C4'	1:CA:173:U:C5	2.99	0.46
23:AW:33:U:O2	23:AW:36:U:OP2	2.33	0.46
1:AA:781:A:H2'	1:AA:782:A:H5'	1.97	0.46
36:DA:817:C:O2'	36:DA:839:U:OP1	2.34	0.46
33:B7:10:ARG:NH1	33:B7:14:LYS:CE	2.79	0.46
38:DC:65:LEU:HD13	38:DC:189:ASN:HD22	1.80	0.46
36:BA:1056:G:H4'	36:BA:1086:A:C8	2.50	0.46
1:CA:413:G:H21	1:CA:428:G:H1'	1.80	0.46
44:BJ:9:UNK:O	44:BJ:11:UNK:N	2.48	0.46
36:DA:2495:G:O2'	36:DA:2496:C:H5'	2.16	0.46
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.16	0.46
42:DG:136:ARG:NH1	42:DG:136:ARG:HG2	2.31	0.46
36:DA:2143:C:O2'	36:DA:2144:U:H5'	2.16	0.46
40:BE:152:LYS:HB3	45:BN:78:TYR:HA	1.98	0.46
1:CA:983:A:H5'	1:CA:984:C:OP2	2.15	0.46
1:CA:155:C:H2'	1:CA:156:G:H8	1.81	0.46
36:DA:1605:C:C5	36:DA:1606:G:C5	3.04	0.46
1:AA:38:G:C2	1:AA:397:A:C2	3.03	0.46
1:CA:103:C:H3'	1:CA:104:G:H8	1.81	0.46
1:AA:880:C:H2'	1:AA:881:G:H8	1.81	0.46
36:DA:2239:G:H5'	39:DD:251:GLY:HA3	1.97	0.46
15:AO:4:THR:HG23	15:AO:7:GLU:OE1	2.16	0.46
1:AA:1397:C:H3'	1:AA:1397:C:H6	1.81	0.46
20:AT:8:ARG:HG3	20:AT:8:ARG:HH11	1.80	0.46
6:AF:78:GLU:O	6:AF:81:ILE:HG13	2.15	0.46
42:DG:120:LEU:HB3	42:DG:131:TYR:OH	2.16	0.46
25:AY:313:ALA:O	25:AY:386:GLY:N	2.48	0.46
1:AA:979:C:C3'	1:AA:980:C:C5'	2.78	0.46
36:DA:2645:G:C3'	36:DA:2646:C:C5'	2.85	0.46
36:BA:2134:A:C2	36:BA:2159:G:O2'	2.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:7:ALA:HB2	57:BZ:59:LEU:HD22	1.97	0.46
57:BZ:137:ILE:HG21	57:BZ:155:LEU:HD12	1.98	0.46
55:BX:35:THR:HB	55:BX:38:GLU:H	1.81	0.46
42:BG:96:ARG:O	42:BG:98:ARG:N	2.49	0.46
10:CJ:32:ALA:HB2	10:CJ:76:ASN:ND2	2.27	0.46
41:DF:127:GLU:HB2	41:DF:196:LEU:CD1	2.46	0.46
36:DA:585:G:H2'	36:DA:1251:C:N4	2.22	0.46
40:DE:117:MET:CE	40:DE:124:GLY:HA3	2.45	0.46
50:DS:98:VAL:HG12	50:DS:100:ALA:HB2	1.98	0.46
31:B5:55:ARG:HD3	31:B5:56:LYS:N	2.31	0.46
41:BF:127:GLU:HB2	41:BF:196:LEU:CD1	2.46	0.46
36:DA:212:G:O2'	36:DA:213:A:H5'	2.16	0.46
53:DV:19:LYS:HB3	53:DV:94:LEU:O	2.16	0.46
45:BN:22:THR:HB	45:BN:25:ARG:CB	2.38	0.46
36:DA:1141:U:H6	45:DN:63:THR:CG2	2.29	0.46
36:DA:1142(A):A:C5	36:DA:1144:G:C5	3.04	0.46
45:DN:62:VAL:O	45:DN:63:THR:O	2.34	0.46
36:DA:649:G:H2'	36:DA:650:C:C6	2.51	0.46
47:BP:95:VAL:CG2	47:BP:125:VAL:HG23	2.45	0.46
25:AY:423:LYS:HB3	25:AY:472:VAL:CG2	2.32	0.46
36:BA:483:A:N3	36:BA:483:A:H2'	2.29	0.46
36:BA:2103:C:H1'	36:BA:2187:G:N1	2.27	0.46
39:DD:25:THR:HG22	39:DD:26:LYS:N	2.31	0.46
17:CQ:65:ILE:O	17:CQ:66:SER:HB3	2.16	0.46
43:BH:156:ALA:C	43:BH:158:HIS:H	2.18	0.46
1:AA:147:G:N2	1:AA:148:G:H1'	2.31	0.46
36:BA:2810:A:O2'	40:BE:61:ARG:HB2	2.16	0.46
14:AN:15:LYS:O	14:AN:16:PHE:O	2.34	0.46
2:CB:204:ASN:ND2	2:CB:206:ASP:N	2.52	0.46
23:AW:23:C:H2'	23:AW:24:U:C6	2.51	0.46
40:DE:32:PRO:HA	40:DE:90:THR:HG23	1.98	0.46
40:BE:82:ARG:O	40:BE:84:PHE:N	2.48	0.46
2:AB:20:GLU:CG	2:AB:189:ASP:OD2	2.64	0.46
1:AA:1030(A):G:H2'	1:AA:1030(B):C:H5'	1.98	0.46
36:DA:1536:C:H2'	36:DA:1537:G:C4'	2.46	0.46
36:DA:519:U:H5''	54:DW:25:ARG:NH2	2.31	0.46
25:CY:286:ILE:N	25:CY:286:ILE:HD12	2.31	0.46
12:CL:53:ARG:HG2	12:CL:53:ARG:HH11	1.80	0.46
42:BG:113:ARG:O	42:BG:140:ILE:HG22	2.15	0.46
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.81	0.46
20:AT:89:ARG:HD2	20:AT:104:LEU:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:40:ILE:CG1	19:CS:71:LEU:HD23	2.46	0.46
48:BQ:52:VAL:C	48:BQ:54:MET:N	2.69	0.46
36:BA:2469:A:O2'	48:BQ:56:ARG:HD3	2.16	0.46
40:DE:63:LEU:O	40:DE:64:LYS:C	2.53	0.46
39:BD:72:LYS:HG3	39:BD:103:ARG:NH2	2.30	0.46
12:CL:27:LEU:CB	12:CL:62:SER:HB2	2.44	0.46
12:AL:28:LYS:C	12:AL:30:ALA:N	2.68	0.46
30:B4:33:VAL:HG12	30:B4:34:GLU:N	2.31	0.46
36:DA:2462:U:H2'	36:DA:2463:C:H6	1.81	0.46
16:CP:67:THR:HB	16:CP:70:ALA:CB	2.46	0.46
37:BB:71:C:O2'	37:BB:72:G:H5'	2.16	0.46
36:BA:1164:G:H1	36:BA:1185:C:H42	1.63	0.46
50:DS:77:ALA:HB1	50:DS:82:ILE:HB	1.98	0.46
4:AD:179:GLU:O	4:AD:181:MET:HG3	2.15	0.46
26:B0:3:HIS:NE2	36:BA:2602:A:H2	2.14	0.46
1:AA:1329:A:OP1	13:AM:29:ARG:HG3	2.16	0.46
36:BA:1721:G:C2	36:BA:1739:U:OP2	2.69	0.46
1:AA:747:C:H2'	1:AA:748:C:C1'	2.45	0.46
1:AA:1319:A:OP2	19:AS:5:LEU:HD23	2.15	0.46
48:DQ:37:LEU:HG	48:DQ:129:THR:HA	1.98	0.46
36:BA:1362:C:H2'	36:BA:1363:C:H6	1.81	0.46
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.17	0.46
39:DD:210:GLY:O	39:DD:211:ARG:CB	2.64	0.46
36:DA:1910:G:O2'	36:DA:1911:U:H5'	2.15	0.46
4:AD:65:ARG:NH1	4:AD:70:ILE:O	2.47	0.46
34:D8:14:VAL:HG21	34:D8:22:VAL:CG1	2.45	0.46
1:CA:1308:U:O2'	1:CA:1309:G:H5'	2.15	0.46
34:B8:14:VAL:HG21	34:B8:22:VAL:CG1	2.46	0.46
1:CA:756:C:H2'	1:CA:757:U:O4'	2.16	0.46
18:CR:55:ARG:NH1	18:CR:55:ARG:HG3	2.30	0.46
1:CA:622:A:C8	1:CA:623:C:C5	3.04	0.46
36:DA:2039:C:H2'	36:DA:2040:C:C6	2.51	0.46
1:CA:189(D):C:H2'	1:CA:189(E):U:O4'	2.15	0.46
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.81	0.46
36:BA:347:A:H2'	36:BA:348:G:H8	1.81	0.46
36:BA:718:A:H2'	36:BA:719:C:O4'	2.16	0.46
1:AA:557:G:H2'	1:AA:558:G:O4'	2.16	0.46
1:AA:652:U:C2	1:AA:752:G:N2	2.83	0.46
1:CA:1264:C:O2'	1:CA:1265:G:H5'	2.15	0.46
55:DX:3:THR:O	55:DX:4:ALA:HB3	2.16	0.46
44:DJ:108:UNK:O	44:DJ:109:UNK:C	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:178:LYS:HG2	38:BC:181:PHE:HE1	1.80	0.46
36:BA:2320:A:H2'	36:BA:2320:A:N3	2.31	0.46
3:AC:67:THR:HG23	3:AC:102:ASN:HB2	1.98	0.46
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.80	0.46
36:DA:1567:A:H5'	39:DD:58:HIS:CD2	2.51	0.46
41:DF:140:LEU:O	41:DF:143:ALA:HB3	2.16	0.46
2:AB:172:ILE:N	2:AB:172:ILE:HD12	2.31	0.46
39:BD:99:ASP:C	39:BD:99:ASP:OD1	2.55	0.46
1:CA:534:U:H5'	1:CA:534:U:H6	1.80	0.46
1:AA:1243:C:O2'	1:AA:1244:C:H5'	2.15	0.46
25:AY:141:LYS:CE	60:AY:702:GDP:N2	2.73	0.45
27:B1:41:ARG:HH22	36:BA:1365:A:H5'	1.78	0.45
55:BX:35:THR:HG22	55:BX:36:LYS:N	2.30	0.45
49:BR:28:LEU:HD11	49:BR:114:VAL:HG12	1.99	0.45
25:AY:485:GLU:OE1	25:AY:555:LEU:HB2	2.16	0.45
15:AO:17:ARG:NH1	15:AO:17:ARG:HG3	2.30	0.45
53:DV:19:LYS:HG3	53:DV:20:LEU:N	2.31	0.45
39:BD:131:LEU:N	39:BD:131:LEU:CD1	2.78	0.45
25:CY:245:ALA:O	25:CY:248:LYS:HB3	2.16	0.45
32:D6:15:GLU:OE2	32:D6:44:ARG:CZ	2.63	0.45
2:CB:82:ARG:NH1	2:CB:92:TYR:OH	2.49	0.45
32:B6:14:THR:HG23	32:B6:50:ARG:HG2	1.99	0.45
36:DA:2259:G:O2'	36:DA:2260:C:H5'	2.16	0.45
36:DA:637:A:N6	36:DA:652:C:H4'	2.31	0.45
47:DP:99:LEU:HG	47:DP:100:LEU:HD22	1.97	0.45
51:DT:108:ARG:HG3	51:DT:109:GLU:H	1.79	0.45
31:B5:6:VAL:CG1	36:BA:2016:U:H1'	2.46	0.45
10:AJ:8:LEU:HB2	10:AJ:70:ARG:O	2.16	0.45
36:BA:1822:G:H2'	36:BA:1823:G:H8	1.81	0.45
50:BS:85:VAL:CG2	50:BS:106:ARG:HG3	2.42	0.45
36:DA:142:A:H5'	36:DA:142(A):C:OP2	2.16	0.45
40:BE:31:CYS:O	40:BE:91:VAL:N	2.49	0.45
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.57	0.45
51:BT:126:ALA:C	51:BT:128:GLU:H	2.19	0.45
36:DA:1528:A:O2'	36:DA:1528(A):A:O5'	2.33	0.45
39:DD:43:ARG:HB3	39:DD:54:ARG:CB	2.44	0.45
12:AL:83:VAL:HG12	12:AL:84:LEU:H	1.81	0.45
1:AA:1520:G:O2'	1:AA:1521:G:H5'	2.17	0.45
1:CA:1502:A:H2	1:CA:1505:G:N1	2.03	0.45
1:CA:1112:C:H1'	3:CC:179:ARG:HD3	1.98	0.45
2:AB:12:GLU:CA	2:AB:16:HIS:ND1	2.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:183:G:O2'	1:AA:224:C:H4'	2.16	0.45
36:DA:938:G:H2'	36:DA:939:G:H8	1.80	0.45
3:CC:157:ILE:C	3:CC:159:GLY:N	2.69	0.45
4:AD:17:VAL:O	4:AD:19:LEU:HD12	2.16	0.45
36:BA:534:U:O2'	52:BU:49:HIS:CD2	2.69	0.45
25:AY:272:LEU:O	25:AY:272:LEU:HG	2.15	0.45
36:DA:654(P):C:H2'	36:DA:654(Q):C:C5'	2.46	0.45
34:D8:61:LEU:C	34:D8:63:PRO:CD	2.85	0.45
36:DA:1799:G:H8	39:DD:181:GLU:OE1	1.99	0.45
36:BA:654(P):C:H2'	36:BA:654(Q):C:C5'	2.46	0.45
36:DA:2462:U:H2'	36:DA:2463:C:C6	2.51	0.45
38:BC:31:LYS:O	38:BC:31:LYS:HD3	2.16	0.45
25:CY:9:LEU:HD22	25:CY:284:LEU:HD22	1.98	0.45
4:CD:78:LEU:HD21	4:CD:96:LEU:HB2	1.97	0.45
19:CS:12:ASP:H	19:CS:38:SER:HB3	1.81	0.45
42:BG:7:LEU:O	42:BG:8:LYS:C	2.54	0.45
36:BA:2143:C:C2'	36:BA:2144:U:H5'	2.46	0.45
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.16	0.45
36:DA:2469:A:O2'	48:DQ:56:ARG:HD3	2.16	0.45
9:AI:99:LEU:HD22	9:AI:99:LEU:N	2.31	0.45
48:DQ:17:LEU:O	48:DQ:18:LYS:HD2	2.16	0.45
36:DA:48:G:N2	36:DA:177:G:N2	2.64	0.45
43:BH:141:VAL:O	43:BH:142:GLY:C	2.55	0.45
36:DA:2364:C:O2'	36:DA:2365:G:H5'	2.15	0.45
1:CA:545:C:H5''	4:CD:72:GLU:HG2	1.97	0.45
40:BE:4:ILE:CG1	40:BE:5:LEU:N	2.79	0.45
36:BA:1755:A:P	51:BT:113:LYS:HZ3	2.39	0.45
1:AA:748:C:O2'	1:AA:749:C:O5'	2.35	0.45
45:BN:82:LEU:HD23	45:BN:82:LEU:O	2.16	0.45
19:AS:6:LYS:O	19:AS:7:LYS:HE3	2.16	0.45
36:BA:2030:A:H4'	36:BA:2031:A:C8	2.50	0.45
22:CV:19:G:H4'	22:CV:20:U:OP1	2.16	0.45
25:AY:225:GLU:HB2	25:AY:228:MET:HE1	1.98	0.45
25:AY:445:GLU:HA	25:AY:445:GLU:OE1	2.15	0.45
13:AM:14:ARG:HB3	13:AM:16:ASP:OD1	2.16	0.45
1:CA:269:C:H2'	1:CA:270:A:H8	1.79	0.45
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	1.99	0.45
36:DA:64:A:O2'	55:DX:71:GLY:HA3	2.16	0.45
36:DA:484:C:H2'	36:DA:485:C:H6	1.78	0.45
48:BQ:12:GLN:NE2	48:BQ:73:PRO:HD2	2.30	0.45
36:DA:572:A:C2	36:DA:2033:A:C2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:77:ALA:CB	39:BD:97:TYR:HA	2.46	0.45
38:DC:74:ARG:NH1	38:DC:74:ARG:HG2	2.32	0.45
39:BD:148:GLU:HB2	39:BD:151:LYS:HD2	1.98	0.45
36:DA:303:U:H2'	36:DA:304:G:H8	1.80	0.45
36:DA:324:A:OP2	36:DA:1205:U:N3	2.46	0.45
1:AA:909:A:H2'	1:AA:910:C:O4'	2.16	0.45
21:AU:13:ILE:O	21:AU:16:GLY:N	2.49	0.45
36:BA:2861:G:C4	36:BA:2862:G:C8	3.04	0.45
25:CY:549:ALA:HB2	25:CY:587:SER:OG	2.16	0.45
36:DA:2517:C:C6	36:DA:2542:A:C2	3.03	0.45
36:DA:541:C:H42	36:DA:552:G:H1	1.63	0.45
36:DA:1972:A:H2'	36:DA:1973:G:C8	2.51	0.45
1:CA:689:C:O5'	1:CA:689:C:H6	1.99	0.45
36:BA:1770:G:O2'	36:BA:1771:C:H5'	2.16	0.45
36:BA:2401:U:H2'	36:BA:2402:C:H1'	1.98	0.45
36:BA:112:U:H2'	36:BA:113:G:H5'	1.98	0.45
57:BZ:129:SER:C	57:BZ:131:ARG:H	2.19	0.45
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.46	0.45
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.54	0.45
52:DU:97:ASP:C	52:DU:99:ALA:H	2.19	0.45
52:BU:37:GLU:O	52:BU:40:PHE:HB2	2.17	0.45
38:DC:62:THR:OG1	38:DC:161:ARG:HD2	2.16	0.45
1:CA:61:G:OP1	20:CT:10:LEU:HD11	2.16	0.45
14:AN:7:ILE:HG13	14:AN:8:GLU:N	2.29	0.45
36:DA:59:U:H3	36:DA:68:G:H1	1.63	0.45
57:BZ:17:ALA:O	57:BZ:20:ARG:HG2	2.16	0.45
5:AE:86:ALA:HB3	5:AE:125:SER:HB3	1.98	0.45
24:CX:11:A:N3	24:CX:11:A:C2'	2.79	0.45
36:BA:2531:A:OP1	43:BH:177:GLY:N	2.49	0.45
41:DF:24:LEU:C	41:DF:115:ALA:HB1	2.37	0.45
45:BN:46:VAL:HG13	45:BN:48:MET:CE	2.46	0.45
43:DH:13:LYS:CE	43:DH:13:LYS:HA	2.40	0.45
25:CY:554:PRO:HD2	25:CY:560:VAL:HG22	1.98	0.45
36:BA:2472:G:H3'	36:BA:2475:C:H42	1.82	0.45
47:DP:33:ARG:O	47:DP:34:GLY:C	2.54	0.45
32:D6:25:LYS:NZ	34:D8:34:TRP:HZ2	2.14	0.45
32:D6:35:GLU:O	32:D6:36:LEU:HB2	2.16	0.45
32:D6:52:VAL:HG22	32:D6:53:LYS:N	2.30	0.45
56:DY:39:VAL:HG12	56:DY:40:GLU:H	1.82	0.45
56:DY:13:VAL:HG23	56:DY:73:ARG:O	2.16	0.45
36:DA:185:U:H2'	36:DA:186:G:H8	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:243:VAL:O	25:CY:247:ARG:CB	2.64	0.45
28:B2:41:ILE:HD11	28:B2:44:LEU:CD1	2.30	0.45
13:CM:68:GLY:CA	13:CM:71:ARG:HB3	2.46	0.45
47:DP:95:VAL:CG2	47:DP:125:VAL:HG23	2.44	0.45
40:DE:111:ARG:CG	49:DR:2:ARG:HG2	2.39	0.45
36:BA:946:G:H2'	36:BA:947:G:C8	2.51	0.45
47:BP:100:LEU:HA	47:BP:103:ALA:HB3	1.97	0.45
51:BT:28:VAL:O	51:BT:29:ARG:HD2	2.16	0.45
27:B1:81:LYS:C	27:B1:82:LEU:HD12	2.36	0.45
31:B5:2:ALA:N	36:BA:2015:A:H1'	2.31	0.45
1:AA:1126:U:O4	10:AJ:7:LYS:HE2	2.17	0.45
36:BA:2443:C:C2'	36:BA:2444:G:H5'	2.47	0.45
36:BA:675:A:H4'	41:BF:67:GLN:OE1	2.16	0.45
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.40	0.45
28:D2:25:VAL:CG2	28:D2:60:LEU:HD22	2.46	0.45
47:BP:48:PRO:O	47:BP:51:PHE:N	2.46	0.45
14:CN:12:ARG:HB2	14:CN:12:ARG:CZ	2.47	0.45
20:CT:50:GLU:HB2	20:CT:100:ILE:CB	2.46	0.45
45:DN:13:TRP:O	45:DN:135:PRO:HD2	2.17	0.45
57:DZ:167:PRO:O	57:DZ:168:GLU:HB3	2.17	0.45
34:D8:52:LYS:H	34:D8:53:PRO:HD2	1.78	0.45
1:AA:346:G:H2'	1:AA:347:G:O4'	2.16	0.45
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	2.31	0.45
55:DX:47:PHE:CD2	55:DX:89:ILE:HG21	2.50	0.45
48:DQ:110:THR:CG2	48:DQ:113:GLN:HG3	2.47	0.45
36:BA:2876:G:C5'	51:BT:3:ARG:HA	2.46	0.45
10:AJ:61:GLU:HG3	14:AN:58:LYS:NZ	2.32	0.45
43:DH:86:GLU:N	43:DH:86:GLU:OE1	2.49	0.45
1:AA:770:C:O2'	1:AA:771:G:H5'	2.16	0.45
30:D4:31:ILE:CG2	30:D4:33:VAL:HG23	2.46	0.45
38:BC:73:VAL:HG13	38:BC:73:VAL:O	2.16	0.45
36:DA:1220:A:H3'	36:DA:1221:C:C5'	2.41	0.45
54:BW:109:GLU:N	54:BW:109:GLU:OE1	2.48	0.45
36:DA:1668:A:N3	36:DA:1670:C:C4	2.84	0.45
50:BS:58:LEU:HD12	50:BS:59:LYS:H	1.81	0.45
1:CA:247:G:C6	1:CA:278:G:C2	3.04	0.45
1:AA:325:A:N6	1:AA:326:G:N1	2.64	0.45
2:AB:32:ILE:CD1	2:AB:40:HIS:HB3	2.46	0.45
31:D5:44:THR:CG2	49:DR:101:ALA:HB2	2.45	0.45
42:BG:37:VAL:HG22	42:BG:159:VAL:HA	1.98	0.45
57:DZ:24:LEU:CD2	57:DZ:25:PRO:O	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:990:A:OP2	36:BA:991:C:OP2	2.35	0.45
36:DA:1992:G:N2	36:DA:1996:C:O2	2.34	0.45
25:AY:175:SER:O	25:AY:188:TYR:N	2.49	0.45
27:D1:67:ILE:HB	27:D1:68:PRO:CD	2.46	0.45
5:CE:7:GLU:O	5:CE:8:GLU:HB3	2.16	0.45
46:BO:107:ARG:HA	46:BO:112:MET:HE1	1.98	0.45
39:BD:77:ALA:HA	39:BD:97:TYR:HA	1.97	0.45
36:BA:1767:C:H2'	36:BA:1768:U:O4'	2.17	0.45
32:B6:42:TRP:CH2	36:BA:643:A:N7	2.84	0.45
36:BA:643:A:H2'	36:BA:644:A:O4'	2.16	0.45
1:CA:8:A:N6	4:CD:205:GLU:O	2.49	0.45
50:BS:48:LEU:N	50:BS:48:LEU:CD1	2.79	0.45
41:BF:46:ARG:NH1	41:BF:46:ARG:HG3	2.31	0.45
38:BC:141:PRO:C	38:BC:143:ALA:H	2.20	0.45
1:CA:582:U:OP1	15:CO:68:ARG:NH2	2.49	0.45
54:BW:28:SER:C	54:BW:30:GLU:N	2.69	0.45
36:BA:422:A:C2	36:BA:423:A:C4	3.04	0.45
25:AY:39:ILE:HG22	25:AY:40:HIS:N	2.30	0.45
10:AJ:32:ALA:HB2	10:AJ:76:ASN:ND2	2.28	0.45
10:AJ:3:LYS:HZ2	10:AJ:77:PRO:HD2	1.81	0.45
42:DG:67:LYS:HD3	42:DG:68:PRO:CD	2.47	0.45
25:CY:121:VAL:HG23	25:CY:122:TRP:N	2.30	0.45
25:AY:100:VAL:O	25:AY:329:ARG:NH1	2.50	0.45
25:CY:141:LYS:O	25:CY:144:ALA:HB2	2.15	0.45
45:DN:43:THR:HB	45:DN:46:VAL:HG11	1.99	0.45
57:BZ:151:HIS:O	57:BZ:152:ALA:C	2.53	0.45
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.46	0.45
36:BA:2720:U:H2'	36:BA:2721:A:O4'	2.15	0.45
45:DN:3:THR:C	45:DN:4:TYR:CD1	2.89	0.45
50:DS:15:ARG:CB	50:DS:18:ILE:HD11	2.46	0.45
7:AG:23:VAL:O	7:AG:27:ILE:HB	2.16	0.45
25:AY:214:GLU:O	25:AY:218:GLU:N	2.50	0.45
25:AY:462:ILE:O	25:AY:466:LEU:HB2	2.16	0.45
27:B1:89:GLU:O	27:B1:93:GLU:HG2	2.17	0.45
36:BA:1244:G:O2'	36:BA:1245:G:H5'	2.16	0.45
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.16	0.45
41:BF:68:LYS:HG3	41:BF:69:HIS:HD2	1.81	0.45
28:D2:32:LEU:CA	28:D2:53:LEU:HD13	2.41	0.45
34:B8:49:VAL:O	34:B8:53:PRO:HG3	2.15	0.45
34:B8:52:LYS:H	34:B8:53:PRO:HD2	1.80	0.45
47:BP:50:ARG:HG2	47:BP:50:ARG:NH1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:15:LYS:O	14:CN:16:PHE:O	2.34	0.45
57:DZ:72:ARG:HG3	57:DZ:72:ARG:NH1	2.32	0.45
40:BE:51:PHE:HD1	40:BE:52:LEU:N	2.15	0.45
2:AB:21:ARG:NH2	2:AB:38:GLY:HA3	2.31	0.45
36:DA:482:A:H1'	36:DA:498:G:N2	2.32	0.45
45:BN:55:VAL:HG22	45:BN:56:ASN:N	2.31	0.45
36:BA:1544:A:O2'	36:BA:1545:A:H5'	2.17	0.45
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HD2	2.49	0.45
25:AY:191:ASP:HB3	25:AY:265:LYS:HB3	1.99	0.45
1:AA:1026:G:H3'	1:AA:1027:C:C5'	2.46	0.45
36:DA:2330:G:H2'	36:DA:2331:G:O4'	2.17	0.45
36:BA:918:A:H5''	37:BB:98:G:O2'	2.16	0.45
36:BA:861:A:C2'	36:BA:862:G:H5'	2.47	0.45
36:DA:1776:G:N2	36:DA:1789:A:H1'	2.31	0.45
52:BU:50:ARG:C	52:BU:52:ARG:N	2.69	0.45
38:BC:115:VAL:HB	38:BC:150:ILE:HD11	1.98	0.45
36:BA:654(P):C:H2'	36:BA:654(Q):C:H5'	1.97	0.45
42:BG:9:ARG:C	42:BG:11:TYR:N	2.68	0.45
36:DA:869:G:C2'	36:DA:870:A:H5'	2.46	0.45
36:BA:588:U:H1'	41:BF:90:PHE:HB3	1.97	0.45
35:B9:29:ASN:HD21	35:B9:32:HIS:CG	2.35	0.45
36:BA:903:C:C2'	36:BA:904:C:C5'	2.94	0.45
7:AG:80:VAL:HG23	7:AG:83:ALA:HB3	1.95	0.45
2:AB:77:ALA:O	2:AB:78:GLN:C	2.52	0.45
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.81	0.45
1:AA:500:G:H5'	12:AL:124:LYS:NZ	2.32	0.45
1:AA:217:C:O2'	1:AA:470:C:N4	2.49	0.45
1:AA:1008:C:H6	1:AA:1008:C:O5'	1.99	0.45
36:BA:548:A:C3'	36:BA:549:G:H5'	2.47	0.45
47:BP:71:VAL:HG12	47:BP:72:PRO:HD3	1.97	0.45
48:DQ:43:THR:OG1	48:DQ:45:GLN:HG2	2.15	0.45
46:BO:22:ILE:HB	46:BO:40:VAL:O	2.16	0.45
41:BF:107:LYS:O	41:BF:108:LYS:C	2.55	0.45
27:D1:64:ALA:HA	27:D1:67:ILE:CG1	2.47	0.45
27:B1:45:ASN:C	27:B1:45:ASN:ND2	2.69	0.45
36:BA:557:U:H2'	36:BA:558:G:H8	1.81	0.45
47:DP:108:LYS:C	47:DP:110:TYR:N	2.69	0.45
15:CO:27:VAL:O	15:CO:30:ALA:N	2.49	0.45
50:BS:42:ASP:O	50:BS:43:GLU:HB2	2.16	0.45
36:DA:2547:U:H2'	36:DA:2548:G:C8	2.48	0.45
1:CA:417:C:H2'	1:CA:418:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:826:C:C2	1:AA:827:U:C5	3.05	0.45
1:AA:765:G:H1	1:AA:812:C:H2'	1.82	0.45
33:D7:36:GLN:C	33:D7:38:GLY:N	2.70	0.45
5:CE:36:ASP:O	5:CE:37:ARG:HB2	2.16	0.45
6:CF:38:GLU:O	6:CF:39:LYS:C	2.54	0.45
36:BA:644:A:C2	36:BA:2369:A:H1'	2.51	0.45
27:D1:52:ARG:HD3	27:D1:52:ARG:HA	1.74	0.45
4:AD:155:LEU:O	4:AD:156:GLU:C	2.55	0.45
8:AH:38:ILE:O	8:AH:39:LEU:C	2.54	0.45
25:CY:304:ASP:C	25:CY:306:ASN:N	2.69	0.45
5:CE:15:ARG:CZ	5:CE:26:PHE:CE2	3.00	0.45
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.82	0.45
36:BA:29:U:O2'	36:BA:30:G:H5'	2.16	0.45
45:BN:79:PRO:C	45:BN:81:GLY:H	2.20	0.45
21:AU:6:ARG:NH2	21:AU:15:ARG:NH2	2.64	0.45
1:CA:261:U:O2	1:CA:263:A:C8	2.70	0.45
36:DA:1177:A:N3	36:DA:1178:C:H5	2.14	0.45
29:B3:12:PRO:O	29:B3:13:ILE:C	2.53	0.45
36:BA:1756:G:H4'	36:BA:1758:G:O4'	2.16	0.45
38:BC:191:ARG:HH11	38:BC:191:ARG:HG3	1.82	0.45
8:CH:74:PRO:O	8:CH:75:ARG:C	2.55	0.45
11:CK:66:LEU:HD23	11:CK:66:LEU:HA	1.79	0.45
57:BZ:27:VAL:O	57:BZ:27:VAL:HG13	2.17	0.45
1:CA:967:C:H2'	1:CA:968:A:C8	2.51	0.45
36:BA:1248:G:C5	52:BU:3:ARG:HD2	2.51	0.45
1:AA:811:C:H4'	1:AA:900:A:N6	2.31	0.45
24:AX:12:A:H5''	24:AX:13:A:OP2	2.15	0.45
42:DG:64:THR:HG23	42:DG:65:GLY:N	2.32	0.45
30:B4:48:ARG:O	30:B4:49:PHE:HB2	2.16	0.45
25:CY:100:VAL:O	25:CY:329:ARG:HD3	2.15	0.45
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.34	0.45
36:BA:187:G:N3	36:BA:1365:A:H2	2.14	0.45
36:DA:2472:G:H3'	36:DA:2475:C:H42	1.80	0.45
56:DY:76:CYS:SG	56:DY:77:PRO:CD	2.85	0.45
36:DA:962:G:C2'	36:DA:963:U:H5'	2.45	0.45
36:DA:2439:A:H3'	36:DA:2600:A:OP1	2.16	0.45
50:DS:101:LEU:O	50:DS:102:ALA:O	2.34	0.45
32:D6:29:ASN:CG	32:D6:30:THR:N	2.70	0.45
32:B6:9:LEU:O	32:B6:9:LEU:HD13	2.15	0.45
45:DN:10:GLU:OE2	45:DN:11:PRO:HD2	2.16	0.45
55:DX:8:ILE:HD11	55:DX:42:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:20:TYR:CD1	56:BY:20:TYR:N	2.84	0.45
25:AY:490:PRO:CG	25:AY:516:PRO:HD2	2.30	0.45
39:BD:144:ALA:HB3	39:BD:192:THR:CG2	2.41	0.45
50:DS:12:PHE:C	50:DS:12:PHE:HD1	2.19	0.45
36:BA:1017:G:O2'	36:BA:1018:C:H5'	2.16	0.45
32:D6:24:GLU:OE2	36:DA:2346:A:H8	1.99	0.45
36:DA:2345:G:C3'	36:DA:2346:A:H5'	2.46	0.45
36:BA:2290:G:H4'	36:BA:2381:C:O2'	2.17	0.45
36:DA:2261:C:O2'	36:DA:2262:U:H5'	2.17	0.45
31:D5:7:PRO:HA	36:DA:2615:U:C2	2.52	0.45
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.16	0.45
36:DA:1568:G:OP2	39:DD:63:ARG:NH2	2.44	0.45
4:CD:49:ARG:CA	4:CD:49:ARG:HE	2.13	0.45
10:AJ:49:VAL:HG21	14:AN:41:ARG:O	2.15	0.45
51:BT:32:TYR:O	51:BT:41:ARG:O	2.35	0.45
51:BT:57:PHE:O	51:BT:58:ASN:C	2.54	0.45
40:DE:34:VAL:HG11	40:DE:78:LEU:CD2	2.47	0.45
40:BE:69:LYS:HG2	40:BE:90:THR:OG1	2.15	0.45
40:BE:82:ARG:HH11	40:BE:82:ARG:HG3	1.80	0.45
51:DT:33:LYS:HE2	51:DT:43:GLN:CD	2.37	0.45
36:BA:481:G:H2'	36:BA:507:A:C2	2.50	0.45
40:DE:132:HIS:CD2	40:DE:135:HIS:NE2	2.84	0.45
1:CA:1053:G:N7	1:CA:1199:U:H2'	2.32	0.45
9:AI:59:PHE:CD1	9:AI:59:PHE:N	2.84	0.45
51:DT:128:GLU:O	51:DT:130:ALA:N	2.50	0.45
36:DA:2425:A:H5''	36:DA:2426:A:H3'	1.97	0.45
26:D0:42:GLY:HA3	36:DA:2331:G:H4'	1.99	0.45
36:BA:2778:A:C5'	36:BA:2779:U:OP1	2.59	0.45
1:CA:1389:C:H2'	1:CA:1390:U:O4'	2.17	0.45
36:DA:864:G:OP2	48:DQ:22:LYS:HE2	2.16	0.45
36:BA:1799:G:H8	39:BD:181:GLU:OE1	1.99	0.45
4:CD:19:LEU:O	4:CD:26:CYS:SG	2.75	0.45
12:AL:20:LYS:CD	12:AL:20:LYS:H	2.21	0.45
36:DA:2745:C:H2'	36:DA:2746:U:C6	2.52	0.45
25:AY:133:ILE:HD12	25:AY:272:LEU:HD11	1.97	0.45
30:D4:33:VAL:HG12	30:D4:34:GLU:N	2.32	0.45
30:B4:34:GLU:CD	30:B4:34:GLU:N	2.70	0.45
25:AY:64:THR:C	25:AY:66:THR:N	2.70	0.45
29:B3:4:LEU:HD23	29:B3:58:VAL:HA	1.99	0.45
1:AA:797:C:H2'	1:AA:798:G:C8	2.52	0.45
2:CB:80:ILE:HD12	2:CB:80:ILE:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:74:LYS:O	2:AB:75:LYS:C	2.54	0.45
40:DE:93:VAL:HG12	40:DE:175:VAL:HG21	1.99	0.45
36:BA:2364:C:H2'	36:BA:2365:G:O4'	2.16	0.45
36:BA:848:G:H5'	36:BA:849:A:OP2	2.17	0.45
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.45
36:DA:1276:A:H1'	49:DR:16:HIS:HE1	1.81	0.45
36:DA:2031:A:C6	36:DA:2498:C:H1'	2.51	0.45
39:DD:187:GLY:C	39:DD:189:CYS:H	2.20	0.45
33:B7:11:LYS:HE2	36:BA:686:G:H5''	1.98	0.45
13:CM:56:LEU:HD13	13:CM:60:VAL:HG23	1.99	0.45
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.82	0.45
19:AS:37:ARG:H	19:AS:37:ARG:HG3	1.37	0.45
41:DF:5:ALA:HB3	41:DF:18:ARG:O	2.16	0.45
36:DA:1794:U:H2'	36:DA:1795:C:C6	2.49	0.45
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.17	0.45
36:DA:2679:A:H2'	36:DA:2680:C:H6	1.80	0.45
36:BA:1930:G:HO2'	36:BA:1968:G:H1	1.63	0.45
1:CA:935:A:H2'	1:CA:936:C:C6	2.51	0.45
36:DA:2870:C:O2'	36:DA:2871:C:H5'	2.17	0.45
36:BA:201:C:C2'	36:BA:202:U:H5'	2.46	0.45
1:CA:907:A:H2'	1:CA:908:A:O4'	2.16	0.45
36:DA:2557:G:H2'	36:DA:2558:C:C6	2.52	0.45
36:BA:566:U:O4	53:BV:78:LYS:HE3	2.16	0.45
36:BA:1632:A:H2'	36:BA:1633:G:C8	2.51	0.45
1:CA:392:G:H2'	1:CA:393:A:C8	2.50	0.45
36:DA:2542:A:H4'	36:DA:2543:G:C8	2.51	0.45
56:DY:42:VAL:HG23	56:DY:67:LEU:HD13	1.98	0.45
36:BA:464:U:H2'	36:BA:465:G:O4'	2.17	0.45
3:CC:121:ALA:O	3:CC:124:ILE:HB	2.17	0.45
36:DA:234:C:H2'	36:DA:235:U:C6	2.50	0.45
44:DJ:139:UNK:C	44:DJ:141:UNK:N	2.79	0.45
52:DU:72:HIS:HE1	52:DU:107:ALA:HB2	1.81	0.45
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.15	0.45
36:DA:2697:G:C2	36:DA:2711:A:C2	3.04	0.45
2:CB:174:VAL:HG13	2:CB:184:VAL:HG11	1.98	0.45
27:D1:43:TYR:CD1	27:D1:43:TYR:N	2.84	0.45
39:BD:141:VAL:HG23	39:BD:141:VAL:O	2.16	0.45
1:AA:1264:C:O2'	1:AA:1265:G:H5'	2.17	0.45
25:CY:315:LYS:HZ3	25:CY:317:MET:HG2	1.80	0.45
25:CY:489:LYS:HG2	25:CY:598:ASP:CG	2.37	0.45
1:CA:975:A:H5'	1:CA:975:A:C8	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:179:ASP:OD2	25:CY:182:ARG:HB2	2.15	0.45
25:CY:262:SER:HB3	25:CY:265:LYS:HB2	1.99	0.45
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.35	0.45
1:CA:1508:G:H2'	1:CA:1509:C:H6	1.82	0.45
52:BU:98:LEU:O	52:BU:106:PHE:HB2	2.16	0.45
25:AY:464:ASP:O	25:AY:468:ARG:CB	2.63	0.45
55:DX:35:THR:HB	55:DX:38:GLU:H	1.81	0.45
27:D1:46:LEU:N	27:D1:46:LEU:HD22	2.20	0.45
49:DR:28:LEU:HB2	49:DR:34:ILE:HG13	1.99	0.45
32:B6:24:GLU:OE2	36:BA:2346:A:H8	2.00	0.45
36:BA:1568:G:P	39:BD:63:ARG:HH22	2.39	0.45
25:AY:185:ALA:HB3	25:AY:200:PRO:HA	1.98	0.45
36:DA:1245:G:C5'	41:DF:34:TRP:HZ2	2.30	0.45
36:DA:310:A:OP2	56:DY:18:GLY:HA2	2.15	0.45
14:AN:12:ARG:CZ	14:AN:12:ARG:HB2	2.46	0.45
36:DA:1517:G:O2'	36:DA:1518:U:H5'	2.15	0.45
40:DE:69:LYS:O	40:DE:70:ALA:C	2.54	0.45
2:AB:215:LEU:N	2:AB:215:LEU:HD22	2.31	0.45
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.16	0.45
13:CM:118:ALA:CB	13:CM:120:LYS:HE3	2.46	0.45
37:DB:79:C:H2'	37:DB:80:U:O4'	2.16	0.45
30:D4:50:VAL:HG12	30:D4:51:ASP:N	2.32	0.45
5:AE:90:VAL:O	5:AE:120:THR:HA	2.17	0.45
18:AR:44:LEU:CD2	18:AR:79:LEU:HD22	2.46	0.45
46:BO:35:VAL:CG1	46:BO:103:ALA:HB3	2.39	0.45
36:BA:915:C:H2'	36:BA:916:G:H8	1.82	0.45
20:CT:89:ARG:HD2	20:CT:104:LEU:CG	2.47	0.45
9:AI:79:LEU:HD13	9:AI:83:ARG:HB2	1.98	0.45
30:D4:34:GLU:CD	30:D4:34:GLU:N	2.70	0.45
38:BC:115:VAL:HA	38:BC:145:THR:HG22	1.98	0.45
26:D0:74:ARG:CG	37:DB:13:A:OP2	2.62	0.45
5:AE:64:ARG:NH1	5:AE:64:ARG:CG	2.80	0.45
1:CA:720:C:O5'	1:CA:720:C:H6	2.00	0.45
1:CA:1239:A:H62	1:CA:1299:A:H62	1.65	0.45
36:DA:958:U:C6	36:DA:958:U:H3'	2.50	0.45
1:AA:797:C:H2'	1:AA:798:G:H8	1.80	0.45
4:AD:78:LEU:HD21	4:AD:96:LEU:HB2	1.98	0.45
33:B7:8:ASN:ND2	33:B7:9:ARG:N	2.62	0.45
43:DH:18:GLU:HB3	43:DH:19:VAL:H	1.63	0.45
50:DS:49:VAL:CG1	50:DS:50:SER:H	2.27	0.45
4:AD:157:LEU:HG	4:AD:161:ASN:HD21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:73:THR:HG23	2:AB:170:GLU:OE2	2.16	0.45
1:CA:500:G:H5'	12:CL:124:LYS:NZ	2.31	0.45
1:AA:1325:C:C2	1:AA:1326:C:C5	3.05	0.45
36:DA:848:G:C4	36:DA:933:A:H8	2.33	0.45
12:AL:79:GLU:CB	25:AY:442:THR:OG1	2.65	0.45
49:DR:50:HIS:O	49:DR:51:LEU:C	2.55	0.45
1:AA:1005:A:H3'	1:AA:1006:C:O4'	2.17	0.45
36:DA:570:G:O6	36:DA:2499:C:OP1	2.34	0.45
6:AF:97:PHE:CD2	18:AR:65:ILE:CD1	3.00	0.45
47:DP:13:ASN:O	47:DP:14:LYS:CB	2.64	0.45
36:DA:756:C:C2'	36:DA:757:U:H5'	2.47	0.45
27:D1:67:ILE:N	27:D1:68:PRO:CD	2.79	0.45
45:BN:14:VAL:HG21	45:BN:137:LYS:NZ	2.32	0.45
36:BA:25:U:H2'	36:BA:26:G:O4'	2.17	0.45
43:DH:65:HIS:HE1	43:DH:69:ARG:NH1	2.15	0.45
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.86	0.45
52:DU:82:GLY:C	52:DU:84:LYS:H	2.19	0.45
36:BA:78:A:H2'	36:BA:79:G:H8	1.82	0.45
23:CW:61:C:O2'	38:DC:53:ARG:HB2	2.17	0.45
1:AA:745:C:H5''	1:AA:851:G:H1'	1.99	0.45
36:DA:2081:C:H2'	36:DA:2082:A:H8	1.82	0.45
4:CD:155:LEU:O	4:CD:156:GLU:C	2.55	0.45
36:DA:644:A:C2	36:DA:2369:A:H1'	2.52	0.45
1:CA:711:G:H2'	1:CA:712:A:C8	2.52	0.45
39:DD:176:ARG:CG	39:DD:176:ARG:HH11	2.30	0.45
1:AA:22:G:O2'	1:AA:913:A:N1	2.43	0.45
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.35	0.45
36:DA:552:G:O2'	36:DA:553:G:H5'	2.17	0.45
1:CA:1131:G:C6	1:CA:1132:C:N4	2.85	0.45
56:DY:42:VAL:O	56:DY:65:ALA:N	2.35	0.45
1:AA:1163:C:H2'	1:AA:1164:G:C8	2.51	0.45
1:CA:724:G:O2'	1:CA:725:G:H5'	2.17	0.45
36:BA:2401:U:H2'	36:BA:2402:C:C1'	2.46	0.45
20:CT:73:HIS:HB3	20:CT:74:LYS:CE	2.47	0.45
36:BA:465:G:C6	36:BA:466:A:N6	2.84	0.45
36:BA:2320:A:C2	36:BA:2333:A:C8	3.05	0.45
36:BA:262:A:H2'	36:BA:263:C:O4'	2.16	0.45
1:AA:248:C:O2'	1:AA:249:U:H5'	2.17	0.45
4:AD:171:GLY:HA2	4:AD:172:PRO:HD3	1.85	0.45
26:B0:53:MET:HA	26:B0:58:THR:O	2.17	0.45
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DZ:108:PRO:HA	57:DZ:142:SER:HA	1.98	0.45
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.81	0.45
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.15	0.45
48:DQ:68:ILE:HG23	48:DQ:103:MET:HA	1.98	0.45
1:CA:858:G:O2'	1:CA:859:A:H5''	2.16	0.45
43:DH:163:TYR:H	43:DH:163:TYR:HD1	1.63	0.45
14:AN:36:PHE:C	14:AN:36:PHE:CD1	2.90	0.45
1:AA:622:A:C8	1:AA:623:C:C5	3.04	0.45
36:DA:775:G:C4	36:DA:794:G:C8	3.05	0.45
55:BX:3:THR:O	55:BX:4:ALA:HB3	2.16	0.45
42:DG:67:LYS:CD	42:DG:68:PRO:O	2.65	0.45
59:CY:701:FUA:H211	59:CY:701:FUA:O2	2.16	0.45
43:BH:91:GLY:HA2	43:BH:160:LYS:HG2	1.99	0.45
36:DA:1859:A:N1	36:DA:1884:A:H1'	2.32	0.45
53:BV:19:LYS:HB3	53:BV:94:LEU:O	2.17	0.45
57:BZ:56:VAL:HG13	57:BZ:69:THR:O	2.16	0.45
29:D3:54:VAL:HG12	29:D3:55:ARG:N	2.31	0.45
52:BU:64:ARG:O	52:BU:68:ALA:N	2.49	0.45
36:BA:2292:C:H2'	36:BA:2293:C:C6	2.51	0.45
50:BS:101:LEU:O	50:BS:102:ALA:O	2.35	0.45
57:BZ:122:ARG:HG2	57:BZ:122:ARG:NH1	2.30	0.45
3:CC:52:LEU:HA	3:CC:70:VAL:HG22	1.99	0.45
32:D6:54:ILE:O	32:D6:54:ILE:CD1	2.61	0.45
49:BR:37:THR:HG23	49:BR:40:LYS:HE2	1.98	0.45
36:BA:272(G):C:C3'	36:BA:272(H):C:H5''	2.45	0.45
36:BA:1022:G:O2'	36:BA:1023:U:P	2.75	0.45
31:D5:55:ARG:HH22	49:DR:33:ARG:CD	2.29	0.45
32:D6:15:GLU:HB3	32:D6:20:ASN:HB2	1.97	0.45
36:DA:2597:G:H5''	39:DD:243:GLY:HA2	1.98	0.45
51:BT:64:ARG:HD2	51:BT:73:GLU:OE2	2.16	0.45
25:AY:413:ILE:O	25:AY:413:ILE:HG23	2.16	0.45
25:AY:656:ALA:O	25:AY:660:ARG:HD2	2.17	0.45
47:DP:7:ARG:CA	47:DP:7:ARG:NH1	2.76	0.45
36:BA:1240:U:O2'	36:BA:1241:A:H5'	2.17	0.45
47:BP:9:ASN:N	47:BP:10:PRO:HD2	2.32	0.45
25:AY:512:ILE:N	25:AY:512:ILE:HD13	2.28	0.45
46:BO:61:VAL:HG21	46:BO:111:PHE:CE2	2.52	0.45
11:AK:111:ASP:OD1	18:AR:84:LYS:HE2	2.16	0.45
57:DZ:166:SER:HB3	57:DZ:168:GLU:HG3	1.98	0.45
47:DP:59:LEU:CA	47:DP:61:ARG:NE	2.69	0.45
36:BA:2809:A:OP2	36:BA:2891:G:N1	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:17:SER:HB3	56:DY:71:LYS:HB3	1.98	0.45
37:DB:104:U:O3'	57:DZ:72:ARG:NH1	2.50	0.45
47:BP:16:ARG:HD3	47:BP:17:LYS:N	2.31	0.45
1:AA:703:G:O2'	1:AA:704:A:OP2	2.35	0.45
1:CA:973:G:OP1	10:CJ:57:LYS:HD3	2.16	0.45
1:CA:1226:C:C4	13:CM:104:ARG:HB2	2.51	0.45
45:DN:55:VAL:HG22	45:DN:56:ASN:N	2.32	0.45
4:CD:107:ARG:HH21	4:CD:194:LEU:HD13	1.80	0.45
36:BA:2425:A:H5''	36:BA:2426:A:H3'	1.97	0.45
5:AE:81:GLU:HA	5:AE:89:ILE:O	2.17	0.45
42:BG:111:LEU:O	42:BG:114:ILE:HG13	2.16	0.45
23:CW:1:C:N3	23:CW:73:A:C2	2.84	0.45
36:DA:409:C:H2'	36:DA:410:G:C8	2.52	0.45
1:CA:1303:C:O2'	1:CA:1304:G:H5'	2.17	0.45
4:CD:31:CYS:O	4:CD:32:ALA:CB	2.64	0.45
19:CS:58:VAL:O	19:CS:59:PRO:C	2.53	0.45
1:CA:437:U:H2'	1:CA:438:G:O4'	2.17	0.45
36:BA:280:C:H3'	36:BA:281:G:H8	1.82	0.45
54:DW:62:HIS:O	54:DW:63:ASP:C	2.55	0.45
19:AS:12:ASP:H	19:AS:38:SER:HB3	1.80	0.45
36:BA:2742:C:C2'	36:BA:2743:C:H5'	2.46	0.45
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.81	0.45
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.17	0.45
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.52	0.45
15:AO:64:ARG:CG	15:AO:64:ARG:NH1	2.79	0.45
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.42	0.45
56:DY:11:ASP:O	56:DY:27:VAL:HA	2.16	0.45
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.16	0.45
36:DA:294:A:H2'	36:DA:295:G:H5'	1.98	0.45
36:DA:658:C:H2'	36:DA:659:C:H6	1.78	0.45
4:CD:157:LEU:HG	4:CD:161:ASN:ND2	2.32	0.45
1:AA:491:G:H2'	1:AA:492:G:C8	2.45	0.45
1:CA:1005:A:H3'	1:CA:1006:C:O4'	2.16	0.45
27:D1:80:LEU:HB3	27:D1:82:LEU:HD11	1.97	0.45
6:AF:97:PHE:HB2	18:AR:32:ARG:HH21	1.82	0.45
36:BA:1827:C:H2'	36:BA:1828:G:C5'	2.46	0.45
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.50	0.45
3:CC:133:ALA:O	3:CC:137:ALA:HB2	2.15	0.45
1:CA:1315:U:O2	1:CA:1360:A:H2	1.99	0.45
45:DN:82:LEU:O	45:DN:82:LEU:HD23	2.17	0.45
13:CM:14:ARG:CZ	13:CM:42:ALA:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:64:A:O2'	55:BX:71:GLY:HA3	2.17	0.45
48:BQ:108:GLY:O	48:BQ:109:VAL:HG23	2.16	0.45
36:DA:724:U:O2'	36:DA:725:G:H5'	2.16	0.45
45:DN:14:VAL:HG21	45:DN:137:LYS:NZ	2.32	0.45
1:CA:1444:C:C2	1:CA:1445:C:C5	3.05	0.45
42:DG:123:ASN:C	42:DG:125:PHE:H	2.19	0.45
46:DO:108:GLU:OE1	46:DO:108:GLU:N	2.43	0.45
8:CH:31:PHE:O	8:CH:34:GLU:HB2	2.17	0.45
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.47	0.45
36:BA:221:A:H4'	36:BA:222:A:O5'	2.17	0.45
8:CH:39:LEU:HD22	8:CH:39:LEU:H	1.81	0.45
19:AS:72:GLY:C	19:AS:74:PHE:H	2.20	0.45
6:CF:15:ASP:O	6:CF:17:SER:N	2.50	0.45
1:AA:1131:G:C6	1:AA:1132:C:N4	2.84	0.45
8:CH:111:ILE:CG2	8:CH:112:LEU:N	2.80	0.45
1:CA:413:G:N2	1:CA:428:G:H1'	2.32	0.45
1:CA:657:G:H4'	15:CO:28:GLN:HG2	1.99	0.45
25:CY:448:GLN:OE1	25:CY:480:GLN:HG2	2.17	0.45
36:DA:2256:G:O2'	36:DA:2257:U:H5'	2.17	0.45
18:AR:40:LEU:O	18:AR:42:ARG:N	2.48	0.45
36:BA:1177:A:N3	36:BA:1178:C:H5	2.14	0.45
44:BJ:4:UNK:O	44:BJ:5:UNK:C	2.64	0.45
36:DA:2570:G:H2'	36:DA:2571:C:O4'	2.17	0.45
43:BH:163:TYR:HD1	43:BH:163:TYR:H	1.63	0.45
7:CG:41:ARG:HG2	7:CG:41:ARG:NH1	2.32	0.45
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.32	0.45
52:BU:72:HIS:HE1	52:BU:107:ALA:HB2	1.82	0.45
1:AA:1392:G:H21	1:AA:1502:A:H8	1.64	0.45
36:BA:613:G:C2	36:BA:615:G:C5	3.05	0.45
25:AY:106:VAL:CG2	25:AY:132:ARG:HG3	2.46	0.45
1:CA:980:C:O2	14:CN:19:ARG:HA	2.17	0.45
25:CY:208:GLN:HA	25:CY:211:GLU:OE2	2.17	0.45
1:AA:1368:G:H5'	9:AI:112:LYS:O	2.17	0.45
52:BU:65:ILE:HD11	52:BU:96:ALA:CB	2.46	0.45
50:BS:96:GLY:O	50:BS:98:VAL:HG23	2.17	0.45
42:BG:59:GLU:C	42:BG:61:ALA:H	2.19	0.45
36:DA:811:U:O2	36:DA:1251:C:C6	2.69	0.45
34:B8:30:ARG:HA	34:B8:30:ARG:NE	2.31	0.45
15:CO:24:SER:O	15:CO:25:THR:C	2.54	0.45
41:BF:195:ASP:HB3	41:BF:198:ALA:HB3	1.99	0.45
53:DV:38:LEU:C	53:DV:39:LEU:HD13	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1142(A):A:C5	36:BA:1144:G:C5	3.04	0.45
23:CW:5:G:H2'	23:CW:6:G:H8	1.82	0.45
52:DU:37:GLU:O	52:DU:40:PHE:HB2	2.17	0.45
47:DP:112:LEU:HD11	47:DP:114:ILE:HG22	1.99	0.45
36:BA:1493:C:H4'	36:BA:1494:A:OP2	2.17	0.45
47:BP:83:VAL:H	47:BP:115:LEU:HD21	1.81	0.45
47:BP:95:VAL:HA	47:BP:99:LEU:CD2	2.42	0.45
51:BT:92:GLY:C	51:BT:94:ALA:N	2.65	0.45
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.51	0.45
52:BU:27:LEU:O	52:BU:31:SER:HB3	2.16	0.45
45:BN:133:GLN:CG	45:BN:134:ARG:N	2.79	0.45
41:DF:62:ARG:HH21	41:DF:64:ILE:HA	1.82	0.45
36:DA:1485:G:H2'	36:DA:1486:A:H8	1.82	0.45
31:B5:34:PRO:HG3	36:BA:2885:C:O2'	2.17	0.45
5:CE:76:ILE:HD11	5:CE:142:LEU:CD2	2.46	0.45
8:CH:9:MET:O	8:CH:10:LEU:C	2.53	0.45
40:DE:31:CYS:HB3	40:DE:49:LEU:HB3	1.97	0.45
36:BA:307:G:H21	36:BA:330:A:N6	2.13	0.45
1:AA:703:G:C2'	1:AA:704:A:OP2	2.65	0.45
56:BY:47:LYS:HG3	56:BY:60:PHE:HE1	1.81	0.45
36:DA:2712(A):A:OP2	36:DA:2714:G:OP2	2.35	0.45
1:CA:1054:C:HO2'	1:CA:1055:A:H5''	1.76	0.45
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.51	0.45
2:CB:8:LYS:O	2:CB:9:GLU:C	2.55	0.45
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.46	0.45
7:CG:86:GLN:NE2	23:CW:31:G:H21	2.15	0.45
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.17	0.45
42:BG:111:LEU:HD21	42:BG:120:LEU:HD21	1.98	0.45
49:DR:7:GLY:HA3	49:DR:8:ARG:NH2	2.31	0.45
36:BA:2852:G:H1	36:BA:2865:U:H3	1.64	0.45
36:DA:993:G:OP1	52:DU:50:ARG:HD2	2.17	0.45
1:AA:628:G:O2'	1:AA:629:G:H5'	2.17	0.45
54:DW:13:SER:HA	54:DW:14:PRO:HD3	1.81	0.45
39:DD:181:GLU:HA	39:DD:273:ARG:O	2.17	0.45
30:B4:31:ILE:CG2	30:B4:33:VAL:HG23	2.46	0.45
5:CE:64:ARG:NH1	5:CE:64:ARG:HG3	2.24	0.45
36:DA:2681:C:H5	36:DA:2725:A:N6	2.09	0.45
36:DA:280:C:H42	36:DA:360:G:H1	1.65	0.45
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.90	0.45
54:BW:62:HIS:O	54:BW:63:ASP:C	2.54	0.45
36:BA:2466:C:H2'	36:BA:2467:C:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:65:ILE:CG1	25:CY:65:ILE:O	2.63	0.45
36:DA:2111:C:C2	36:DA:2147:G:N2	2.82	0.45
57:DZ:54:HIS:HA	57:DZ:98:MET:CE	2.47	0.45
1:AA:539:A:OP2	12:AL:115:LYS:HE3	2.17	0.45
53:BV:72:VAL:HG23	53:BV:85:LYS:HB2	1.97	0.45
36:BA:1639:U:H2'	36:BA:1640:C:C5'	2.47	0.45
45:BN:82:LEU:HD23	45:BN:82:LEU:C	2.37	0.45
46:DO:19:ILE:HD12	46:DO:41:ALA:HB3	1.97	0.45
42:BG:165:THR:O	42:BG:168:GLU:N	2.40	0.45
43:BH:33:LEU:HD21	43:BH:136:ILE:HG22	1.97	0.45
27:B1:47:GLN:HG3	36:BA:2091:U:H1'	1.99	0.45
36:DA:76:C:O2'	36:DA:77:C:H5'	2.16	0.45
48:BQ:110:THR:HG23	48:BQ:113:GLN:H	1.81	0.45
5:CE:33:VAL:HG12	5:CE:34:VAL:H	1.81	0.45
47:DP:110:TYR:CE2	47:DP:111:ARG:NH1	2.83	0.45
1:AA:935:A:H2'	1:AA:936:C:C6	2.52	0.45
1:CA:357:G:H2'	1:CA:358:U:H6	1.82	0.45
23:AW:76:A:N6	36:BA:2422:A:O5'	2.50	0.45
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.51	0.45
36:DA:1462:C:H4'	36:DA:2703:C:O4'	2.16	0.45
3:AC:127:ARG:NH1	3:AC:127:ARG:HG2	2.32	0.45
39:DD:148:GLU:HB2	39:DD:151:LYS:CD	2.47	0.45
36:DA:1400:G:H2'	36:DA:1401:G:C8	2.52	0.45
18:AR:55:ARG:HG3	18:AR:55:ARG:NH1	2.31	0.45
36:DA:2401:U:H2'	36:DA:2402:C:C1'	2.47	0.45
36:BA:1441:G:O2'	36:BA:1442:G:H5'	2.17	0.45
36:DA:682:G:H2'	36:DA:683:C:C6	2.50	0.45
36:DA:2320:A:H2'	36:DA:2320:A:N3	2.32	0.45
36:DA:2266:A:H4'	36:DA:2267:A:N3	2.32	0.45
44:BJ:124:UNK:N	44:BJ:127:UNK:CB	2.80	0.45
36:DA:696:G:C2	36:DA:767:U:O2	2.70	0.45
1:CA:319:G:O2'	1:CA:320:C:H5'	2.16	0.45
22:CV:36:A:C2	24:CX:16:U:N3	2.82	0.45
30:D4:9:LEU:O	30:D4:10:VAL:HB	2.17	0.45
25:CY:453:GLY:HA3	25:CY:459:LEU:HG	1.98	0.45
25:CY:458:HIS:O	25:CY:462:ILE:HG13	2.17	0.45
25:AY:141:LYS:O	25:AY:144:ALA:CB	2.59	0.45
27:B1:41:ARG:HH21	36:BA:1365:A:H5'	1.82	0.45
36:BA:2011:U:C2'	36:BA:2012:G:H5'	2.46	0.45
29:D3:15:TYR:CD1	29:D3:15:TYR:N	2.85	0.45
3:AC:80:GLY:HA3	3:AC:82:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:40:LYS:CE	31:B5:46:CYS:H	2.27	0.45
32:B6:26:ASN:HB3	32:B6:27:LYS:H	1.34	0.45
13:AM:23:TYR:CD1	13:AM:23:TYR:C	2.91	0.45
45:DN:3:THR:HG22	45:DN:5:VAL:HG23	1.99	0.45
52:DU:83:LEU:CD1	52:DU:83:LEU:N	2.80	0.45
45:BN:26:LEU:C	45:BN:28:THR:N	2.70	0.45
45:BN:29:LYS:O	45:BN:33:LEU:HD13	2.16	0.45
36:DA:1141:U:H1'	36:DA:1142(A):A:C2	2.50	0.45
36:BA:2308:G:H2'	36:BA:2309:A:C8	2.52	0.45
47:BP:99:LEU:O	47:BP:99:LEU:HD12	2.17	0.45
51:DT:28:VAL:HG22	51:DT:47:GLY:H	1.81	0.45
10:AJ:17:ASP:OD1	10:AJ:70:ARG:NH1	2.50	0.45
25:AY:499:ARG:HH12	25:AY:506:GLN:HG2	1.82	0.45
47:BP:46:LYS:O	47:BP:47:ASP:HB2	2.16	0.45
47:BP:58:THR:O	47:BP:61:ARG:CG	2.64	0.45
14:CN:14:PRO:O	14:CN:15:LYS:O	2.35	0.45
36:BA:2476:A:C2	36:BA:2477:C:C6	3.05	0.45
31:B5:33:CYS:HB3	31:B5:38:ALA:O	2.16	0.45
2:CB:20:GLU:HG3	2:CB:189:ASP:OD2	2.16	0.45
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.65	0.45
23:AW:28:C:H42	23:AW:42:G:H1	1.64	0.45
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.50	0.45
10:CJ:16:LEU:CD1	10:CJ:70:ARG:HD3	2.46	0.45
36:DA:363(F):A:O2'	36:DA:364:C:P	2.75	0.45
36:DA:2224:G:H4'	36:DA:2226:C:C2	2.52	0.45
42:BG:134:GLY:HA2	42:BG:156:ASP:HA	1.99	0.45
54:DW:25:ARG:HH11	54:DW:25:ARG:CB	2.30	0.45
13:AM:116:THR:CG2	13:AM:117:VAL:N	2.80	0.45
1:AA:1026:G:H3'	1:AA:1027:C:H5'	1.97	0.45
39:DD:155:LEU:CD1	39:DD:155:LEU:N	2.80	0.45
1:AA:1191:A:P	3:AC:3:ASN:HD21	2.40	0.45
57:DZ:9:TYR:HB3	57:DZ:35:ARG:NH2	2.31	0.45
42:BG:51:ARG:NE	42:BG:51:ARG:HA	2.26	0.45
20:AT:89:ARG:HD2	20:AT:104:LEU:HG	1.98	0.45
1:AA:437:U:H2'	1:AA:438:G:O4'	2.17	0.45
23:CW:11:A:H2'	23:CW:12:G:C8	2.51	0.45
9:AI:9:ARG:HG2	9:AI:14:VAL:HA	1.98	0.45
3:AC:179:ARG:HG3	3:AC:179:ARG:H	1.54	0.45
43:DH:41:MET:HE2	43:DH:53:GLU:H	1.81	0.45
25:AY:272:LEU:HD12	25:AY:275:ALA:HB3	1.98	0.45
1:CA:628:G:O2'	1:CA:629:G:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:19:G:H4'	22:AV:20:U:OP1	2.17	0.45
30:B4:31:ILE:HG23	30:B4:33:VAL:HG23	1.99	0.45
31:B5:44:THR:CG2	49:BR:101:ALA:HB2	2.43	0.45
25:CY:541:ALA:HB2	25:CY:579:GLU:HG2	1.98	0.45
36:BA:955:C:OP2	48:BQ:14:ARG:HD2	2.16	0.45
2:AB:233:SER:OG	2:AB:234:PRO:HD2	2.17	0.45
1:AA:552:U:H2'	1:AA:553:A:C8	2.52	0.45
36:BA:1668:A:N3	36:BA:1670:C:C4	2.85	0.45
2:CB:77:ALA:O	2:CB:78:GLN:O	2.35	0.45
40:BE:4:ILE:HG12	40:BE:5:LEU:N	2.31	0.45
40:BE:28:ALA:HB3	40:BE:93:VAL:HG22	1.99	0.45
25:CY:441:SER:C	25:CY:449:THR:HG23	2.37	0.45
36:BA:598:G:C5'	47:BP:15:ARG:HB2	2.43	0.45
36:DA:528:A:N1	36:DA:2042:A:H2'	2.32	0.45
1:CA:770:C:O2'	1:CA:771:G:H5'	2.17	0.45
9:CI:99:LEU:HB2	9:CI:101:PHE:CD2	2.51	0.45
36:DA:526:A:N6	36:DA:2626:C:H4'	2.32	0.45
25:AY:340:TYR:CZ	25:AY:351:ARG:HD3	2.52	0.45
1:CA:217:C:O2'	1:CA:470:C:N4	2.49	0.45
36:BA:1306:C:H2'	36:BA:1307:A:C8	2.44	0.45
36:BA:271(B):C:O2'	36:BA:271(C):C:H5'	2.16	0.45
36:BA:1667:G:H22	36:BA:1992:G:H5'	1.82	0.45
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.31	0.45
19:CS:5:LEU:HG	19:CS:10:PHE:HD1	1.82	0.45
37:BB:20:C:C2'	37:BB:21:G:C5'	2.92	0.45
13:CM:14:ARG:HB3	13:CM:16:ASP:OD1	2.16	0.45
27:B1:45:ASN:ND2	27:B1:47:GLN:NE2	2.64	0.45
36:BA:1036:G:OP2	43:BH:59:ARG:NH1	2.50	0.45
48:BQ:109:VAL:HG12	48:BQ:110:THR:N	2.32	0.45
56:BY:84:ARG:NH1	56:BY:84:ARG:HG2	2.31	0.45
53:DV:32:THR:CG2	53:DV:33:VAL:N	2.80	0.45
1:AA:824:C:H1'	8:AH:1:MET:HE2	1.98	0.45
36:BA:1288:U:C2	36:BA:1327:C:C2	3.05	0.45
36:DA:1556:C:H2'	36:DA:1557:C:H6	1.82	0.45
7:CG:65:ALA:HB1	7:CG:127:ALA:HB3	1.99	0.45
46:DO:105:GLU:O	46:DO:109:LYS:CG	2.65	0.45
56:BY:55:TYR:O	56:BY:56:PRO:C	2.56	0.45
44:DJ:35:UNK:C	44:DJ:37:UNK:N	2.77	0.45
36:BA:777:A:C2	36:BA:778:G:C4	3.05	0.45
36:BA:566:U:C2'	36:BA:567:A:H5'	2.47	0.45
36:DA:844:C:H2'	36:DA:845:G:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:271(H):G:H2'	36:DA:271(I):G:O4'	2.17	0.45
8:AH:111:ILE:CG2	8:AH:112:LEU:N	2.79	0.45
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.17	0.45
38:BC:11:LEU:O	38:BC:13:GLU:N	2.50	0.45
36:BA:2154:G:N2	36:BA:2155:G:H1'	2.31	0.45
36:BA:2079:U:H2'	36:BA:2080:G:C8	2.52	0.45
45:DN:35:ARG:O	45:DN:36:GLY:C	2.55	0.45
1:CA:69:G:H2'	1:CA:70:G:H8	1.82	0.45
1:CA:1337:G:H5''	1:CA:1338:G:OP2	2.16	0.45
36:DA:1932:A:H2'	36:DA:1933:G:O4'	2.17	0.45
26:B0:21:LEU:HD22	26:B0:39:ARG:O	2.16	0.45
36:DA:244:A:H1'	36:DA:255:A:N6	2.31	0.45
36:DA:1801:G:H3'	36:DA:1802:A:H5'	1.98	0.45
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.82	0.45
36:DA:1275:A:N1	36:DA:1295:C:O2'	2.45	0.45
36:DA:532:A:H2'	36:DA:532:A:N3	2.32	0.45
54:DW:28:SER:C	54:DW:30:GLU:N	2.69	0.45
36:BA:695:G:C6	36:BA:768:G:C6	3.05	0.45
55:BX:14:SER:O	55:BX:15:GLU:C	2.55	0.45
25:CY:20:HIS:N	25:CY:121:VAL:HG11	2.32	0.45
25:CY:514:VAL:CG1	25:CY:515:GLU:N	2.79	0.45
25:CY:488:THR:O	25:CY:516:PRO:HG3	2.16	0.45
25:CY:149:VAL:O	25:CY:152:THR:CG2	2.65	0.45
53:BV:18:LEU:CD1	53:BV:19:LYS:H	2.29	0.45
42:BG:54:GLU:HA	42:BG:57:ALA:HB3	1.98	0.45
42:BG:67:LYS:HA	42:BG:68:PRO:HD3	1.81	0.45
36:DA:814:C:C5	47:DP:27:HIS:ND1	2.85	0.45
32:B6:8:LYS:HA	32:B6:27:LYS:HA	1.99	0.45
15:AO:76:GLU:O	15:AO:78:TYR:N	2.50	0.45
28:D2:6:VAL:HG12	28:D2:6:VAL:O	2.16	0.45
52:DU:96:ALA:C	52:DU:98:LEU:N	2.70	0.45
39:BD:165:ILE:HA	39:BD:175:LEU:HD23	1.99	0.45
36:DA:2334:G:N3	50:DS:18:ILE:HD13	2.32	0.45
3:AC:195:VAL:C	3:AC:196:LEU:HD22	2.37	0.45
36:DA:1301:A:O2'	36:DA:1302:A:C2'	2.49	0.45
25:AY:238:THR:HG22	25:AY:241:GLU:CG	2.33	0.45
25:AY:415:PRO:HB2	25:AY:420:ASP:C	2.37	0.45
36:BA:1902:C:O2'	39:BD:244:ARG:HB2	2.17	0.45
36:BA:2468:G:H5'	48:BQ:120:ILE:HD12	1.99	0.45
1:CA:147:G:N2	1:CA:148:G:H1'	2.31	0.45
1:AA:1234:C:C2'	1:AA:1235:U:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:54:GLU:H	34:D8:54:GLU:HG3	1.53	0.45
2:CB:17:PHE:O	2:CB:18:GLY:C	2.55	0.45
2:CB:189:ASP:C	2:CB:191:ASP:H	2.19	0.45
39:BD:26:LYS:O	39:BD:27:THR:CG2	2.65	0.45
2:AB:21:ARG:HG3	2:AB:21:ARG:O	2.17	0.45
51:DT:32:TYR:CD1	51:DT:81:PRO:O	2.69	0.45
51:DT:35:LYS:HZ2	51:DT:41:ARG:NH1	2.15	0.45
41:DF:81:PRO:C	41:DF:83:PHE:H	2.19	0.45
40:DE:132:HIS:CG	40:DE:135:HIS:NE2	2.85	0.45
37:DB:82:G:C2'	37:DB:83:G:H5'	2.46	0.45
1:AA:956:U:C2'	1:AA:957:U:H5'	2.47	0.45
9:AI:64:THR:HG22	9:AI:64:THR:O	2.17	0.45
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.17	0.45
51:BT:1:MET:H1	51:BT:7:ILE:HD11	1.80	0.45
1:AA:183:G:H2'	1:AA:184:G:H8	1.82	0.45
36:DA:614(B):G:H5''	36:DA:614(C):A:OP1	2.17	0.45
39:BD:155:LEU:HD23	39:BD:177:LEU:HD22	1.99	0.45
43:BH:41:MET:HE2	43:BH:53:GLU:H	1.81	0.45
57:BZ:115:GLY:N	57:BZ:177:PRO:CG	2.76	0.45
1:CA:1095:U:P	1:CA:1108:G:H1	2.40	0.45
48:BQ:52:VAL:O	48:BQ:53:ALA:C	2.55	0.45
57:BZ:81:ARG:CZ	57:BZ:81:ARG:HB3	2.47	0.45
1:AA:1101:A:H4'	1:AA:1102:A:C4'	2.46	0.45
36:BA:727:A:H5'	36:BA:728:G:OP2	2.17	0.45
1:CA:797:C:H2'	1:CA:798:G:C8	2.52	0.45
36:DA:2461:C:O2	36:DA:2461:C:C2'	2.65	0.45
36:DA:2466:C:H2'	36:DA:2467:C:H6	1.81	0.45
48:DQ:52:VAL:O	48:DQ:54:MET:N	2.50	0.45
41:BF:88:VAL:HG22	41:BF:89:VAL:N	2.32	0.45
9:AI:99:LEU:HB2	9:AI:101:PHE:CD2	2.52	0.45
38:BC:226:ASN:HD22	38:BC:229:SER:HB3	1.82	0.45
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.31	0.45
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.51	0.45
25:AY:491:VAL:HG21	25:AY:596:LYS:C	2.37	0.45
43:DH:94:TYR:HA	43:DH:106:THR:O	2.17	0.45
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.36	0.45
36:BA:294:A:H2'	36:BA:295:G:H5'	1.97	0.45
40:DE:4:ILE:HG12	40:DE:5:LEU:N	2.32	0.45
40:DE:28:ALA:HB3	40:DE:93:VAL:HG22	1.98	0.45
36:DA:2377:A:H2'	36:DA:2378:A:C8	2.52	0.45
39:DD:218:ARG:HG3	39:DD:218:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2636:U:P	40:BE:80:GLU:HG3	2.57	0.45
33:D7:8:ASN:C	33:D7:8:ASN:HD22	2.17	0.45
1:CA:954:G:H2'	1:CA:955:U:C6	2.52	0.45
36:BA:601:C:O2	36:BA:605:C:H4'	2.17	0.45
1:AA:1314:C:C2	1:AA:1315:U:C5	3.04	0.45
1:AA:1258:G:C6	1:AA:1259:C:N4	2.85	0.45
6:CF:97:PHE:HB2	18:CR:32:ARG:NH2	2.31	0.45
3:CC:25:GLY:O	3:CC:27:LYS:N	2.49	0.45
36:BA:851:U:H2'	36:BA:852:G:H8	1.82	0.45
46:DO:60:ALA:HA	46:DO:87:ILE:CD1	2.47	0.45
13:CM:83:ASP:C	13:CM:85:GLY:N	2.65	0.45
36:BA:2850:A:H2	49:BR:61:HIS:CD2	2.35	0.45
15:AO:23:GLY:O	15:AO:27:VAL:HB	2.17	0.45
23:CW:33:U:O2	23:CW:36:U:OP2	2.33	0.45
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.37	0.45
52:BU:82:GLY:C	52:BU:84:LYS:N	2.70	0.45
36:BA:158:U:H3'	36:BA:158:U:O2	2.16	0.45
41:DF:107:LYS:O	41:DF:108:LYS:C	2.55	0.45
36:BA:1316:U:O2'	36:BA:1317:A:H5'	2.16	0.45
36:BA:222:A:N6	36:BA:224:G:C2	2.85	0.45
6:AF:16:GLN:CD	6:AF:16:GLN:N	2.70	0.45
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.32	0.45
36:BA:2039:C:H2'	36:BA:2040:C:C6	2.52	0.45
36:BA:1972:A:H2'	36:BA:1973:G:C8	2.52	0.45
1:CA:853:G:H2'	1:CA:854:G:H8	1.80	0.45
45:BN:76:SER:O	45:BN:78:TYR:N	2.50	0.45
43:DH:163:TYR:CD1	43:DH:163:TYR:N	2.85	0.45
43:BH:163:TYR:CD1	43:BH:163:TYR:N	2.85	0.45
1:AA:1338:G:C6	1:AA:1339:A:C6	3.05	0.45
36:DA:1062:G:H22	36:DA:1077:A:H1'	1.80	0.45
38:BC:16:ASP:O	38:BC:18:ASN:N	2.50	0.45
5:AE:10:MET:HB2	5:AE:32:VAL:HG13	1.98	0.45
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.17	0.45
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.47	0.45
25:AY:359:HIS:HB2	25:AY:362:HIS:O	2.17	0.45
54:BW:79:GLY:O	54:BW:100:THR:CG2	2.65	0.45
44:DJ:123:UNK:O	44:DJ:124:UNK:C	2.65	0.45
38:DC:76:LEU:HD12	38:DC:94:TYR:HB2	1.99	0.45
10:AJ:32:ALA:HB1	10:AJ:76:ASN:HB3	1.98	0.45
36:DA:2272:U:H5''	36:DA:2273:A:OP1	2.17	0.45
42:DG:91:ARG:HD2	42:DG:92:VAL:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:20:HIS:CE1	25:CY:21:ILE:HD11	2.52	0.45
25:AY:119:GLU:HB2	25:AY:120:THR:H	1.56	0.45
55:DX:14:SER:H	55:DX:17:ALA:HB3	1.82	0.45
3:AC:72:LYS:HA	3:AC:72:LYS:HE3	1.99	0.45
57:BZ:171:ILE:HD12	57:BZ:171:ILE:O	2.17	0.45
42:BG:34:LEU:O	42:BG:34:LEU:CD1	2.64	0.45
10:CJ:79:ARG:HD3	10:CJ:79:ARG:HA	1.68	0.45
40:BE:111:ARG:HD2	40:BE:160:TYR:CE2	2.52	0.45
57:DZ:29:TYR:O	57:DZ:90:VAL:HG23	2.17	0.45
25:AY:486:THR:HG21	25:AY:602:LEU:HG	1.99	0.45
32:B6:29:ASN:CG	32:B6:30:THR:N	2.70	0.45
32:B6:51:GLU:HG2	32:B6:52:VAL:N	2.32	0.45
15:AO:71:GLN:HB2	15:AO:78:TYR:CE1	2.52	0.45
15:AO:74:ASP:C	15:AO:76:GLU:N	2.70	0.45
56:DY:13:VAL:CG2	56:DY:73:ARG:O	2.64	0.45
53:DV:18:LEU:CD1	53:DV:19:LYS:H	2.30	0.45
45:BN:57:ALA:O	45:BN:58:ASP:C	2.54	0.45
36:BA:1097:U:H2'	36:BA:1098:A:H5'	1.99	0.45
56:DY:62:GLU:CD	56:DY:63:LYS:N	2.70	0.45
45:DN:58:ASP:OD1	45:DN:124:ALA:HB1	2.17	0.45
47:DP:102:ARG:HB3	47:DP:102:ARG:CZ	2.46	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.82	0.45
36:DA:2821:A:OP2	36:DA:2822:G:OP2	2.35	0.45
50:BS:12:PHE:HD1	50:BS:12:PHE:C	2.19	0.45
47:BP:114:ILE:O	47:BP:130:PHE:HA	2.17	0.45
36:BA:271(H):G:H2'	36:BA:271(I):G:O4'	2.16	0.45
51:DT:106:SER:CA	51:DT:110:ILE:HG12	2.45	0.45
31:B5:10:LYS:HB2	36:BA:2017:U:O2	2.18	0.45
47:BP:6:LEU:HG	47:BP:7:ARG:N	2.31	0.45
39:DD:35:LYS:HD2	39:DD:36:PRO:HA	1.98	0.45
9:AI:114:TYR:HE2	10:AJ:60:ARG:N	2.08	0.45
47:DP:16:ARG:NE	47:DP:18:ARG:HB2	2.32	0.45
47:BP:24:GLY:N	47:BP:33:ARG:CZ	2.80	0.45
36:DA:2884:U:C2'	36:DA:2885:C:H5'	2.47	0.45
40:DE:50:GLY:CA	40:DE:74:PRO:HG3	2.47	0.45
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.17	0.45
51:DT:35:LYS:NZ	51:DT:41:ARG:HD2	2.31	0.45
56:DY:47:LYS:O	56:DY:48:ALA:O	2.34	0.45
42:BG:144:ILE:O	42:BG:144:ILE:HG23	2.16	0.45
30:D4:48:ARG:O	30:D4:49:PHE:HB2	2.16	0.45
42:BG:110:ALA:HB1	42:BG:140:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:156:ARG:HB2	25:AY:157:LEU:HD23	1.99	0.45
39:DD:112:GLN:HB2	39:DD:115:GLN:HE21	1.81	0.45
1:CA:183:G:H2'	1:CA:184:G:H8	1.80	0.45
39:DD:91:ARG:O	39:DD:107:ALA:HB3	2.17	0.45
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.98	0.45
1:CA:204:U:HO2'	1:CA:216:G:P	2.40	0.45
13:AM:57:ARG:HH12	30:B4:34:GLU:HG3	1.80	0.45
1:CA:797:C:H2'	1:CA:798:G:H8	1.81	0.45
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.65	0.45
54:BW:36:LEU:HD12	54:BW:48:ALA:HA	1.98	0.45
48:DQ:53:ALA:HA	48:DQ:56:ARG:HB2	1.99	0.45
25:CY:66:THR:O	25:CY:67:ALA:HB2	2.16	0.45
1:CA:1325:C:C2	1:CA:1326:C:C5	3.05	0.45
37:BB:86:G:C6	37:BB:92:C:N3	2.84	0.45
49:DR:101:ALA:O	49:DR:102:GLU:HB2	2.17	0.45
1:CA:500:G:C5'	12:CL:124:LYS:NZ	2.80	0.45
36:DA:191:A:H2'	36:DA:192:C:H6	1.81	0.45
1:AA:298:A:H2'	1:AA:299:G:O4'	2.17	0.45
36:BA:2416:C:P	47:BP:66:GLY:HA3	2.57	0.45
1:CA:955:U:O2'	1:CA:956:U:H5'	2.17	0.45
36:DA:1763:G:H2'	36:DA:1764:G:H5'	1.99	0.45
41:BF:125:LEU:HD23	41:BF:125:LEU:H	1.80	0.45
36:BA:2031:A:C6	36:BA:2498:C:H1'	2.53	0.45
36:DA:2116:G:N7	36:DA:2117:A:C6	2.85	0.45
36:DA:1639:U:H2'	36:DA:1640:C:C5'	2.47	0.45
36:BA:1682:G:H2'	36:BA:1683:C:H6	1.80	0.45
36:DA:2075:U:O2'	36:DA:2076:U:H5''	2.17	0.45
36:DA:752:A:HO2'	36:DA:753:C:P	2.39	0.45
37:BB:40:U:H3'	37:BB:41:U:C5'	2.45	0.45
12:CL:105:TYR:CD1	12:CL:105:TYR:N	2.85	0.45
22:CV:17:C:O2'	22:CV:18:G:OP2	2.34	0.45
36:BA:2150:U:H2'	36:BA:2151:G:H8	1.78	0.45
36:BA:1086:A:H3'	36:BA:1086:A:N3	2.31	0.45
6:AF:14:LEU:HD22	6:AF:18:GLN:NE2	2.31	0.45
49:DR:18:LEU:HD21	49:DR:22:ARG:CZ	2.47	0.45
36:DA:1770:G:O2'	36:DA:1771:C:H5'	2.17	0.45
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.81	0.45
36:BA:1062:G:H22	36:BA:1077:A:H1'	1.81	0.45
36:DA:2559:C:O2'	36:DA:2560:C:H5'	2.17	0.45
36:DA:523:C:H2'	36:DA:524:U:O4'	2.17	0.45
36:DA:1446:C:H2'	36:DA:1447:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.38	0.45
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.52	0.45
25:CY:490:PRO:HB3	25:CY:515:GLU:HA	2.00	0.44
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.52	0.44
47:BP:25:SER:O	47:BP:30:THR:CG2	2.65	0.44
29:D3:31:LEU:HD22	29:D3:32:GLN:H	1.83	0.44
45:DN:43:THR:HG22	45:DN:45:ASN:HD22	1.81	0.44
57:BZ:118:GLN:NE2	57:BZ:120:ILE:HD11	2.32	0.44
50:DS:29:PHE:HD1	50:DS:30:ARG:N	2.15	0.44
25:AY:485:GLU:HG3	25:AY:558:PHE:H	1.82	0.44
32:B6:52:VAL:HG22	32:B6:53:LYS:N	2.32	0.44
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.32	0.44
32:D6:19:ARG:O	32:D6:20:ASN:C	2.55	0.44
45:DN:26:LEU:HA	45:DN:29:LYS:NZ	2.32	0.44
40:DE:111:ARG:CA	49:DR:2:ARG:HB3	2.31	0.44
36:BA:637:A:N6	36:BA:652:C:H4'	2.32	0.44
46:BO:69:ILE:CD1	46:BO:69:ILE:N	2.80	0.44
51:BT:106:SER:O	51:BT:107:ASP:CB	2.65	0.44
51:BT:108:ARG:HA	51:BT:111:ARG:HH11	1.82	0.44
27:B1:81:LYS:NZ	36:BA:271(H):G:O3'	2.49	0.44
28:D2:53:LEU:O	28:D2:53:LEU:HD23	2.16	0.44
47:BP:47:ASP:HB3	47:BP:48:PRO:C	2.37	0.44
13:CM:10:PRO:HB2	13:CM:18:ALA:CB	2.44	0.44
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.47	0.44
57:DZ:163:LEU:HD11	57:DZ:167:PRO:HB3	1.99	0.44
34:D8:51:ALA:N	34:D8:53:PRO:HD2	2.31	0.44
47:DP:46:LYS:O	47:DP:47:ASP:HB2	2.17	0.44
31:B5:36:CYS:SG	31:B5:49:CYS:CB	3.04	0.44
47:DP:16:ARG:CZ	47:DP:18:ARG:CG	2.94	0.44
36:BA:811:U:H6	47:BP:24:GLY:O	2.00	0.44
36:BA:2712:U:O4'	36:BA:2712:U:O2	2.35	0.44
10:CJ:17:ASP:OD1	10:CJ:70:ARG:NH1	2.50	0.44
36:DA:807:U:H2'	36:DA:808:G:H8	1.82	0.44
56:BY:47:LYS:O	56:BY:48:ALA:O	2.34	0.44
1:CA:1226:C:C6	13:CM:103:THR:O	2.70	0.44
13:AM:117:VAL:O	13:AM:118:ALA:C	2.54	0.44
4:CD:64:LEU:HD23	4:CD:75:PHE:CZ	2.46	0.44
39:DD:266:SER:O	39:DD:267:SER:O	2.35	0.44
41:BF:132:VAL:CG2	41:BF:133:ASN:N	2.76	0.44
51:DT:126:ALA:C	51:DT:128:GLU:H	2.19	0.44
57:BZ:42:VAL:CG1	57:BZ:43:GLU:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:286:ILE:HA	25:CY:287:PRO:HD3	1.81	0.44
51:BT:5:ALA:O	51:BT:6:LEU:C	2.54	0.44
42:BG:45:GLU:O	42:BG:51:ARG:HD3	2.17	0.44
23:CW:72:A:H4'	23:CW:73:A:OP1	2.17	0.44
51:DT:30:VAL:HG21	51:DT:83:ILE:CG1	2.41	0.44
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.32	0.44
19:CS:51:VAL:O	19:CS:58:VAL:HG22	2.17	0.44
36:DA:729:G:O6	36:DA:1774:C:N4	2.50	0.44
25:AY:251:ILE:HG22	25:AY:251:ILE:O	2.16	0.44
39:DD:263:ARG:O	39:DD:264:LYS:C	2.54	0.44
39:BD:9:TYR:C	39:BD:10:THR:HG22	2.37	0.44
13:AM:56:LEU:HD13	13:AM:60:VAL:HG23	1.98	0.44
29:D3:4:LEU:HD23	29:D3:58:VAL:HA	1.99	0.44
48:DQ:14:ARG:HH11	48:DQ:14:ARG:HG2	1.82	0.44
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.52	0.44
50:DS:56:LEU:C	50:DS:58:LEU:H	2.20	0.44
36:BA:2756:U:C4'	36:BA:2757:A:OP1	2.63	0.44
1:CA:1324:A:O2'	1:CA:1325:C:H5'	2.16	0.44
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.85	0.44
36:DA:2247:A:O2'	36:DA:2248:C:H5'	2.17	0.44
37:BB:92:C:H2'	37:BB:93:G:H8	1.82	0.44
25:CY:137:ASN:ND2	25:CY:263:ALA:CB	2.78	0.44
31:D5:42:PRO:O	31:D5:43:HIS:HB2	2.17	0.44
1:AA:489:C:H2'	1:AA:490:G:H8	1.82	0.44
36:DA:783:A:C8	36:DA:784:A:H4'	2.47	0.44
36:DA:1224:C:O2'	53:DV:85:LYS:HG2	2.17	0.44
25:CY:341:VAL:HG13	25:CY:352:VAL:HG12	1.99	0.44
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.52	0.44
1:CA:781:A:C2'	1:CA:782:A:H5'	2.47	0.44
36:DA:245:G:OP1	47:DP:69:GLY:HA3	2.17	0.44
1:CA:954:G:N2	1:CA:1228:C:N3	2.65	0.44
36:BA:528:A:N1	36:BA:2042:A:H2'	2.32	0.44
36:DA:1667:G:H22	36:DA:1992:G:H5'	1.82	0.44
40:DE:82:ARG:HG3	40:DE:82:ARG:HH11	1.82	0.44
7:CG:143:ARG:O	7:CG:145:ALA:O	2.35	0.44
1:CA:1110:A:H8	1:CA:1110:A:O5'	2.00	0.44
41:BF:110:LEU:HA	41:BF:183:VAL:CG1	2.48	0.44
36:BA:2116:G:N7	36:BA:2117:A:C6	2.86	0.44
36:BA:1276:A:H1'	49:BR:16:HIS:HE1	1.82	0.44
37:BB:21:G:O2'	37:BB:22:U:P	2.75	0.44
36:BA:2870:C:O2'	36:BA:2871:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:69:LYS:HE2	27:D1:72:GLU:CD	2.38	0.44
41:DF:176:LEU:HG	41:DF:177:ALA:O	2.17	0.44
1:AA:930:C:C2'	1:AA:931:C:H5'	2.48	0.44
41:DF:110:LEU:HA	41:DF:183:VAL:CG1	2.47	0.44
37:BB:18:G:H2'	37:BB:19:G:H8	1.82	0.44
8:CH:36:LEU:O	8:CH:38:ILE:N	2.49	0.44
6:AF:22:GLU:O	6:AF:24:GLU:N	2.50	0.44
1:CA:1413:A:C2	1:CA:1488:G:C2	3.05	0.44
36:BA:773:U:H2'	36:BA:774:A:H5'	1.98	0.44
38:BC:225:ILE:HD12	38:BC:225:ILE:O	2.17	0.44
36:BA:552:G:O2'	36:BA:553:G:H5'	2.17	0.44
1:AA:983:A:HO2'	1:AA:1049:U:HO2'	1.63	0.44
36:DA:1889:A:N1	36:DA:2234:G:H1'	2.32	0.44
25:AY:359:HIS:O	25:AY:361:ASN:N	2.50	0.44
36:BA:1275:A:N1	36:BA:1295:C:O2'	2.44	0.44
36:DA:1423:G:H2'	36:DA:1424:G:H8	1.81	0.44
7:CG:8:GLU:O	7:CG:9:VAL:C	2.55	0.44
1:CA:1458:G:OP1	20:CT:35:THR:HG21	2.16	0.44
26:D0:38:VAL:O	26:D0:58:THR:HG23	2.17	0.44
26:D0:53:MET:HA	26:D0:58:THR:O	2.16	0.44
1:AA:319:G:O2'	1:AA:320:C:H5'	2.16	0.44
14:CN:36:PHE:CD1	14:CN:36:PHE:C	2.90	0.44
38:BC:76:LEU:HD12	38:BC:94:TYR:HB2	2.00	0.44
1:AA:256:U:H2'	1:AA:257:G:C8	2.51	0.44
36:BA:487:C:H1'	54:BW:53:SER:HA	1.98	0.44
41:BF:167:ALA:CB	41:BF:173:VAL:HG11	2.20	0.44
25:CY:146:LEU:CD2	25:CY:150:ILE:HD11	2.47	0.44
1:AA:1370:G:C2	1:AA:1371:G:N7	2.85	0.44
37:BB:38:C:O2	37:BB:48:A:H1'	2.16	0.44
50:BS:95:HIS:O	50:BS:96:GLY:C	2.54	0.44
3:AC:78:GLY:CA	3:AC:83:ARG:HB3	2.47	0.44
42:BG:33:ARG:O	42:BG:34:LEU:C	2.54	0.44
40:BE:111:ARG:CA	49:BR:2:ARG:HB3	2.31	0.44
32:B6:53:LYS:HE2	36:BA:2398:U:O2'	2.16	0.44
36:DA:212:G:H8	36:DA:212:G:C5'	2.21	0.44
25:CY:181:LEU:CD1	25:CY:242:LEU:HD13	2.48	0.44
49:DR:31:HIS:HB2	49:DR:34:ILE:HD11	1.99	0.44
49:DR:72:ASP:OD2	49:DR:75:LEU:HB2	2.17	0.44
32:D6:43:CYS:O	32:D6:44:ARG:CB	2.64	0.44
32:B6:48:VAL:CG2	32:B6:49:HIS:H	2.27	0.44
36:DA:1017:G:O2'	36:DA:1018:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:23:TYR:CE1	13:CM:70:LEU:HD22	2.52	0.44
13:CM:70:LEU:O	13:CM:71:ARG:C	2.56	0.44
36:BA:2579:C:O2'	36:BA:2580:U:H5'	2.16	0.44
47:DP:85:LEU:HA	47:DP:88:LEU:HB3	1.99	0.44
25:CY:679:VAL:CG2	25:CY:684:GLN:HB2	2.47	0.44
25:AY:223:PHE:HB3	25:AY:248:LYS:HD3	1.99	0.44
36:BA:2309:A:H2'	36:BA:2310:A:C5'	2.46	0.44
39:DD:165:ILE:HA	39:DD:175:LEU:HD23	1.99	0.44
41:DF:187:VAL:HG13	47:DP:5:ASP:O	2.17	0.44
39:DD:35:LYS:C	39:DD:35:LYS:CD	2.80	0.44
36:BA:2020:A:C2'	36:BA:2021:C:C5'	2.94	0.44
20:CT:97:ALA:O	20:CT:99:LEU:N	2.51	0.44
40:BE:87:GLU:O	40:BE:88:GLY:C	2.55	0.44
2:AB:20:GLU:HG3	2:AB:189:ASP:OD2	2.17	0.44
1:CA:1152:A:OP1	10:CJ:68:HIS:HD2	1.99	0.44
2:CB:188:ALA:O	2:CB:202:PRO:HA	2.17	0.44
9:AI:63:ILE:HD11	9:AI:81:ILE:HD11	1.99	0.44
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.17	0.44
2:AB:121:LEU:HD22	2:AB:126:GLU:HB2	1.98	0.44
13:AM:61:GLU:OE2	42:BG:113:ARG:NH2	2.50	0.44
18:AR:46:GLU:C	18:AR:48:GLY:N	2.68	0.44
57:DZ:9:TYR:CD2	57:DZ:35:ARG:NH1	2.82	0.44
1:CA:930:C:C2'	1:CA:931:C:H5'	2.47	0.44
1:AA:1442:G:C5	1:AA:1442(B):A:H2	2.33	0.44
1:CA:185:A:N3	20:CT:81:LYS:NZ	2.66	0.44
4:CD:17:VAL:O	4:CD:19:LEU:HD12	2.17	0.44
17:AQ:52:LYS:HD2	17:AQ:52:LYS:N	2.21	0.44
48:BQ:37:LEU:HG	48:BQ:129:THR:HA	1.98	0.44
36:DA:2753:A:HO2'	36:DA:2754:U:H5'	1.80	0.44
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.65	0.44
36:BA:280:C:H42	36:BA:360:G:H1	1.64	0.44
14:CN:42:ILE:HG22	14:CN:43:CYS:N	2.31	0.44
36:DA:2464:C:O2'	36:DA:2465:C:P	2.75	0.44
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.45	0.44
36:BA:2111:C:C2	36:BA:2147:G:N2	2.82	0.44
25:CY:316:ILE:HG21	25:CY:324:ARG:CZ	2.47	0.44
1:CA:112:G:H4'	1:CA:389:A:H5''	1.99	0.44
29:B3:4:LEU:HD11	29:B3:39:ASP:OD1	2.17	0.44
56:DY:31:LEU:CD2	56:DY:31:LEU:N	2.79	0.44
56:DY:32:PRO:O	56:DY:35:TYR:N	2.49	0.44
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:111:ALA:HA	4:AD:116:GLN:OE1	2.17	0.44
15:CO:71:GLN:HB2	15:CO:78:TYR:CE1	2.52	0.44
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.52	0.44
43:BH:29:PRO:HD2	43:BH:79:VAL:O	2.16	0.44
36:BA:2667:C:H1'	43:BH:109:PHE:CD1	2.52	0.44
38:DC:226:ASN:HD22	38:DC:229:SER:HB3	1.82	0.44
36:BA:688:U:H4'	36:BA:1780:A:H2	1.73	0.44
1:CA:159:G:C3'	1:CA:160:A:H5''	2.48	0.44
12:AL:8:ASN:HB2	17:AQ:34:LYS:HZ3	1.81	0.44
1:CA:819:A:H4'	1:CA:820:U:OP2	2.17	0.44
36:BA:14:A:C6	36:BA:526:A:C2	3.05	0.44
1:AA:1422:G:C2	1:AA:1423:G:C5	3.05	0.44
36:BA:389:G:O4'	36:BA:2413:G:H4'	2.17	0.44
41:BF:5:ALA:HB3	41:BF:18:ARG:O	2.17	0.44
47:BP:13:ASN:HD22	47:BP:13:ASN:H	1.65	0.44
48:DQ:47:ILE:HD12	48:DQ:70:PRO:HD3	1.99	0.44
42:BG:55:LYS:HA	42:BG:58:GLN:CG	2.47	0.44
36:BA:1341:U:O4'	55:BX:57:LEU:HD12	2.17	0.44
41:BF:176:LEU:HG	41:BF:177:ALA:O	2.17	0.44
45:DN:73:THR:CG2	45:DN:82:LEU:HD11	2.47	0.44
36:BA:2115:G:H3'	36:BA:2116:G:H5''	1.99	0.44
25:CY:166:LEU:O	25:CY:177:ILE:HG23	2.17	0.44
37:DB:20:C:C2'	37:DB:21:G:C5'	2.93	0.44
15:CO:54:ARG:HG2	15:CO:58:MET:HE2	2.00	0.44
2:AB:140:HIS:O	2:AB:143:GLU:HB2	2.17	0.44
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.17	0.44
40:BE:26:ILE:CG2	40:BE:196:VAL:HG21	2.46	0.44
48:DQ:135:ASP:O	48:DQ:138:ASP:OD2	2.36	0.44
5:AE:7:GLU:O	5:AE:8:GLU:HB3	2.18	0.44
2:CB:149:LEU:O	2:CB:150:SER:C	2.56	0.44
36:DA:201:C:C2'	36:DA:202:U:H5'	2.48	0.44
33:B7:39:ARG:HD3	36:BA:458:G:O2'	2.17	0.44
1:CA:907:A:C2	1:CA:908:A:C4	3.04	0.44
36:DA:1654:A:OP1	49:DR:3:HIS:HB2	2.17	0.44
36:DA:809:G:O2'	36:DA:810:U:H5'	2.17	0.44
39:DD:148:GLU:HB2	39:DD:151:LYS:HD2	1.99	0.44
36:DA:2132:U:C5	38:DC:6:LYS:HD2	2.53	0.44
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.17	0.44
37:DB:68:C:H2'	37:DB:69:G:O4'	2.18	0.44
36:DA:2750:A:H2'	36:DA:2752:C:H41	1.82	0.44
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:134:ALA:O	7:CG:137:LYS:N	2.43	0.44
36:BA:2026:C:C4	36:BA:2027:G:N7	2.86	0.44
41:DF:46:ARG:HG3	41:DF:46:ARG:NH1	2.31	0.44
54:BW:28:SER:C	54:BW:30:GLU:H	2.19	0.44
1:CA:610:G:H5'	1:CA:611:A:OP2	2.18	0.44
7:AG:62:PHE:O	7:AG:65:ALA:N	2.50	0.44
48:BQ:68:ILE:HG23	48:BQ:103:MET:HA	1.98	0.44
5:CE:86:ALA:HB3	5:CE:125:SER:HB3	1.98	0.44
54:DW:79:GLY:O	54:DW:100:THR:CG2	2.65	0.44
2:CB:181:PHE:HD1	8:CH:70:GLN:HB3	1.82	0.44
36:DA:828:U:C5	36:DA:829:A:N6	2.85	0.44
36:BA:76:C:O2'	36:BA:77:C:H5'	2.17	0.44
5:CE:10:MET:HB2	5:CE:32:VAL:HG13	1.99	0.44
36:BA:532:A:N3	36:BA:532:A:H2'	2.32	0.44
25:AY:507:TYR:CD1	25:AY:507:TYR:C	2.91	0.44
1:CA:676:A:H1'	11:CK:115:PRO:HB3	1.99	0.44
10:AJ:3:LYS:HZ2	10:AJ:76:ASN:HA	1.82	0.44
42:DG:41:GLN:C	42:DG:43:LEU:H	2.20	0.44
25:CY:122:TRP:C	25:CY:122:TRP:CD1	2.90	0.44
25:CY:122:TRP:CH2	25:CY:256:THR:OG1	2.70	0.44
25:CY:15:ILE:O	25:CY:15:ILE:HD12	2.18	0.44
25:CY:88:VAL:HB	25:CY:90:PHE:HE1	1.77	0.44
25:AY:111:SER:O	25:AY:112:GLN:C	2.54	0.44
25:AY:124:GLN:CA	25:AY:127:LYS:HD3	2.46	0.44
25:AY:138:LYS:HE2	60:AY:702:GDP:N9	2.32	0.44
1:AA:1348:U:O3'	9:AI:120:ARG:HG3	2.17	0.44
25:CY:487:ILE:HB	25:CY:597:GLY:O	2.16	0.44
1:CA:1399:C:C4'	1:CA:1400:C:H5'	2.36	0.44
56:BY:77:PRO:O	56:BY:78:ALA:CB	2.65	0.44
3:AC:50:ALA:CB	3:AC:70:VAL:HG11	2.39	0.44
29:B3:10:LYS:NZ	29:B3:15:TYR:OH	2.38	0.44
32:D6:27:LYS:NZ	32:D6:30:THR:HB	2.32	0.44
25:AY:550:MET:CE	25:AY:563:ILE:HD11	2.48	0.44
56:BY:22:GLY:O	56:BY:23:ARG:HG2	2.18	0.44
56:BY:37:VAL:HG23	56:BY:38:ILE:H	1.82	0.44
36:BA:1141:U:H1'	36:BA:1142(A):A:C2	2.53	0.44
39:DD:166:GLN:CA	39:DD:166:GLN:NE2	2.71	0.44
32:B6:45:LYS:HD3	36:BA:2371:G:O3'	2.17	0.44
36:DA:1024:G:OP2	36:DA:1026:U:OP1	2.36	0.44
45:DN:87:LEU:O	45:DN:88:GLU:C	2.54	0.44
13:CM:23:TYR:HE1	13:CM:70:LEU:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:68:GLY:N	13:CM:71:ARG:HB3	2.32	0.44
47:DP:99:LEU:HD12	47:DP:99:LEU:O	2.17	0.44
36:DA:2688:U:O2	36:DA:2688:U:C3'	2.66	0.44
25:AY:201:ILE:HG21	25:AY:206:LEU:HA	1.98	0.44
25:AY:216:LEU:HD23	25:AY:216:LEU:O	2.17	0.44
36:BA:947:G:H2'	36:BA:948:G:H8	1.83	0.44
36:BA:2307:G:H3'	36:BA:2308:G:C5'	2.46	0.44
1:AA:1004:A:N1	1:AA:1034:G:H2'	2.33	0.44
41:BF:116:ASP:OD2	47:BP:5:ASP:HB2	2.16	0.44
47:BP:7:ARG:NH1	47:BP:7:ARG:CA	2.77	0.44
47:BP:56:SER:O	47:BP:57:THR:C	2.56	0.44
6:AF:72:VAL:CG1	6:AF:73:ASN:N	2.79	0.44
34:D8:55:ALA:O	34:D8:59:LYS:NZ	2.44	0.44
57:DZ:102:LEU:HD21	57:DZ:124:ILE:HG12	1.98	0.44
57:BZ:86:VAL:CG1	57:BZ:87:ASP:N	2.76	0.44
8:CH:104:ARG:HB3	8:CH:108:GLY:H	1.82	0.44
47:BP:16:ARG:CZ	47:BP:16:ARG:HB2	2.47	0.44
41:DF:81:PRO:O	41:DF:83:PHE:N	2.51	0.44
36:BA:2573:C:OP1	36:BA:2574:G:OP1	2.36	0.44
36:DA:481:G:H2'	36:DA:507:A:C2	2.52	0.44
54:BW:25:ARG:HH11	54:BW:25:ARG:CB	2.30	0.44
43:DH:44:VAL:HG12	43:DH:45:VAL:N	2.32	0.44
1:CA:1392:G:N2	1:CA:1502:A:C8	2.86	0.44
2:CB:121:LEU:HD22	2:CB:126:GLU:HB2	1.99	0.44
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.32	0.44
12:AL:20:LYS:CD	12:AL:20:LYS:N	2.80	0.44
9:AI:95:LYS:C	9:AI:98:PRO:HD2	2.38	0.44
36:BA:993:G:OP1	52:BU:50:ARG:HD2	2.18	0.44
36:DA:1818:U:H5''	39:DD:157:ARG:HB2	1.98	0.44
25:AY:65:ILE:H	25:AY:65:ILE:HD13	1.82	0.44
19:AS:58:VAL:HG21	19:AS:75:ALA:CB	2.48	0.44
42:BG:11:TYR:HA	42:BG:15:VAL:CG2	2.47	0.44
1:AA:1343:G:C6	1:AA:1344:C:N4	2.86	0.44
36:DA:903:C:C2'	36:DA:904:C:C5'	2.94	0.44
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.83	0.44
50:BS:56:LEU:O	50:BS:58:LEU:N	2.50	0.44
35:D9:32:HIS:O	35:D9:34:GLN:HG3	2.16	0.44
49:DR:21:TYR:OH	49:DR:43:GLU:HG2	2.17	0.44
26:D0:60:PHE:HE2	36:DA:2365:G:H4'	1.80	0.44
26:B0:3:HIS:CD2	36:BA:2602:A:H2	2.35	0.44
38:BC:211:ARG:HG3	38:BC:211:ARG:NH1	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:31:GLU:O	28:B2:35:LEU:N	2.47	0.44
39:DD:227:ASN:HB3	39:DD:228:PRO:HD2	1.99	0.44
1:AA:470:C:C2'	1:AA:471:G:OP1	2.65	0.44
36:BA:848:G:H5'	36:BA:849:A:P	2.58	0.44
1:AA:301:G:H2'	1:AA:302:G:C8	2.47	0.44
36:BA:782:A:N3	39:BD:226:MET:HG2	2.32	0.44
1:AA:1315:U:O2	1:AA:1360:A:H2	2.00	0.44
18:AR:31:LEU:N	18:AR:31:LEU:CD2	2.80	0.44
5:AE:143:ARG:NH1	8:AH:77:GLU:OE1	2.50	0.44
1:CA:948:C:OP1	13:CM:107:ALA:HA	2.16	0.44
57:DZ:104:PHE:CE1	57:DZ:139:VAL:HG21	2.52	0.44
1:CA:1319:A:OP2	19:CS:5:LEU:HD23	2.17	0.44
55:DX:57:LEU:CD1	55:DX:57:LEU:N	2.80	0.44
42:DG:165:THR:HG22	42:DG:167:GLU:HB2	1.99	0.44
36:BA:1216:G:H2'	36:BA:1217:C:C6	2.53	0.44
42:DG:123:ASN:OD1	42:DG:123:ASN:N	2.50	0.44
25:AY:544:LYS:O	25:AY:548:GLU:CB	2.66	0.44
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.18	0.44
42:DG:181:ARG:NH1	42:DG:181:ARG:HB2	2.32	0.44
1:CA:46:G:H2'	1:CA:366:C:H5	1.82	0.44
36:BA:425:G:O2'	36:BA:426:C:H5'	2.17	0.44
53:DV:66:ARG:NH1	53:DV:88:ARG:HE	2.16	0.44
52:BU:113:ALA:C	52:BU:115:ALA:N	2.70	0.44
37:BB:68:C:O2'	37:BB:69:G:H5'	2.18	0.44
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.98	0.44
36:BA:844:C:H2'	36:BA:845:G:O4'	2.17	0.44
1:AA:756:C:H2'	1:AA:757:U:O4'	2.17	0.44
19:CS:72:GLY:C	19:CS:74:PHE:H	2.21	0.44
38:DC:11:LEU:C	38:DC:13:GLU:N	2.70	0.44
7:AG:7:ALA:O	7:AG:8:GLU:HB2	2.16	0.44
1:AA:1339:A:H2'	1:AA:1340:A:H5'	1.99	0.44
7:CG:7:ALA:O	7:CG:8:GLU:HB2	2.16	0.44
36:BA:437:G:H2'	36:BA:438:G:C8	2.52	0.44
1:CA:600:C:H4'	8:CH:128:GLY:O	2.18	0.44
36:BA:2845:G:O2'	36:BA:2846:G:H5'	2.18	0.44
37:BB:30:C:H2'	37:BB:31:C:O4'	2.18	0.44
36:BA:1744:C:C2'	36:BA:1745:C:H5'	2.48	0.44
50:BS:70:GLY:C	50:BS:72:ALA:N	2.70	0.44
36:DA:1281:G:H1	36:DA:1289:C:H42	1.65	0.44
27:B1:5:CYS:SG	27:B1:62:VAL:HA	2.58	0.44
51:DT:93:ARG:HA	51:DT:93:ARG:HD2	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:100:THR:O	41:DF:100:THR:HG22	2.17	0.44
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.99	0.44
36:DA:2327:A:H2'	36:DA:2328:A:C8	2.52	0.44
50:DS:70:GLY:C	50:DS:72:ALA:N	2.70	0.44
22:AV:35:A:O2'	22:AV:36:A:H5'	2.18	0.44
42:DG:100:TRP:O	42:DG:101:ILE:C	2.54	0.44
42:DG:37:VAL:HG21	42:DG:103:LEU:HD11	1.98	0.44
42:DG:147:ASP:C	42:DG:149:VAL:N	2.71	0.44
25:CY:117:GLN:HE22	25:CY:120:THR:HG23	1.83	0.44
25:AY:141:LYS:NZ	60:AY:702:GDP:HN22	2.14	0.44
27:B1:41:ARG:HH22	36:BA:1365:A:C5'	2.30	0.44
1:CA:815:A:O2'	1:CA:1527:C:H1'	2.18	0.44
50:BS:93:LYS:O	50:BS:94:TYR:C	2.55	0.44
36:BA:1599:C:OP2	55:BX:36:LYS:HD2	2.17	0.44
30:B4:5:ILE:C	30:B4:6:HIS:HD2	2.21	0.44
30:B4:6:HIS:HB3	30:B4:7:PRO:CD	2.47	0.44
31:B5:55:ARG:NH2	49:BR:33:ARG:HD3	2.32	0.44
15:AO:17:ARG:HD3	15:AO:26:GLU:CG	2.29	0.44
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.66	0.44
36:BA:272(H):C:H2'	36:BA:272(I):U:C5'	2.44	0.44
56:DY:37:VAL:HG23	56:DY:38:ILE:H	1.83	0.44
56:DY:94:LYS:HG3	56:DY:102:CYS:SG	2.57	0.44
52:DU:65:ILE:HG12	52:DU:96:ALA:HB1	1.98	0.44
39:BD:130:ALA:HB2	39:BD:192:THR:HB	2.00	0.44
39:BD:133:LEU:HB3	39:BD:173:VAL:HG11	1.98	0.44
39:BD:142:VAL:HG23	39:BD:192:THR:C	2.38	0.44
32:D6:45:LYS:HD3	36:DA:2371:G:O3'	2.18	0.44
13:CM:68:GLY:H	13:CM:71:ARG:CB	2.30	0.44
56:DY:49:VAL:O	56:DY:51:VAL:HG23	2.17	0.44
25:AY:177:ILE:C	25:AY:178:ILE:HD12	2.38	0.44
36:BA:2334:G:C2	50:BS:15:ARG:NH1	2.85	0.44
47:BP:99:LEU:HG	47:BP:100:LEU:HD22	1.99	0.44
25:AY:451:ILE:O	25:AY:451:ILE:HG23	2.17	0.44
36:BA:676:A:H1'	36:BA:2443:C:C1'	2.46	0.44
36:BA:2317:C:O2'	36:BA:2318:G:H5'	2.14	0.44
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.52	0.44
36:DA:71:A:H5''	36:DA:72:U:O5'	2.17	0.44
47:BP:23:PRO:HD2	47:BP:33:ARG:NH2	2.31	0.44
2:AB:17:PHE:O	2:AB:18:GLY:C	2.55	0.44
2:AB:19:HIS:CD2	2:AB:20:GLU:HG2	2.52	0.44
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	2.17	0.44
36:DA:943:U:OP2	47:DP:38:GLN:OE1	2.36	0.44
4:AD:64:LEU:HD23	4:AD:75:PHE:CZ	2.47	0.44
36:BA:1237:A:O2'	36:BA:1238:G:P	2.76	0.44
27:B1:50:ARG:CG	27:B1:59:THR:HG22	2.48	0.44
16:CP:21:VAL:HG11	16:CP:59:TRP:NE1	2.33	0.44
25:CY:74:TRP:CD1	25:CY:273:LEU:HB3	2.52	0.44
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.89	0.44
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.17	0.44
2:AB:8:LYS:O	2:AB:9:GLU:C	2.55	0.44
20:AT:90:GLN:CA	20:AT:93:GLU:OE2	2.66	0.44
36:DA:861:A:C2'	36:DA:862:G:H5'	2.47	0.44
20:CT:81:LYS:O	20:CT:83:ARG:N	2.50	0.44
41:DF:123:LEU:HD12	41:DF:124:LEU:N	2.32	0.44
31:D5:25:LEU:HD12	54:DW:19:LEU:O	2.17	0.44
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.45	0.44
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.83	0.44
48:BQ:19:GLY:HA3	57:BZ:79:ARG:NH1	2.33	0.44
34:B8:61:LEU:C	34:B8:63:PRO:CD	2.85	0.44
12:CL:28:LYS:HB2	12:CL:33:ARG:NH2	2.32	0.44
40:BE:55:ASN:ND2	40:BE:75:VAL:HG22	2.33	0.44
6:CF:46:ARG:HH22	18:CR:37:VAL:CG2	2.28	0.44
36:DA:958:U:C6	36:DA:958:U:C3'	3.00	0.44
54:DW:68:ARG:O	54:DW:109:GLU:HA	2.17	0.44
9:AI:33:PHE:O	9:AI:35:GLU:N	2.47	0.44
36:BA:2740:A:N6	36:BA:2764:A:C8	2.86	0.44
15:CO:76:GLU:O	15:CO:78:TYR:N	2.50	0.44
36:DA:2667:C:H1'	43:DH:109:PHE:CD1	2.53	0.44
36:BA:654(S):G:H3'	36:BA:654(T):C:C4'	2.47	0.44
25:CY:343:ASN:O	25:CY:347:GLY:CA	2.65	0.44
36:BA:177:G:H3'	36:BA:178:G:C8	2.52	0.44
56:DY:26:LYS:HG2	56:DY:27:VAL:H	1.82	0.44
36:DA:2636:U:P	40:DE:80:GLU:HG3	2.57	0.44
36:DA:192:C:OP1	36:DA:2243:U:OP1	2.35	0.44
57:BZ:72:ARG:O	57:BZ:73:GLN:HB2	2.16	0.44
39:BD:46:GLN:OE1	39:BD:46:GLN:N	2.51	0.44
1:CA:965:A:C2	1:CA:969:A:N1	2.86	0.44
56:DY:86:ARG:CB	56:DY:88:LYS:HZ1	2.31	0.44
36:BA:2076:U:H5'	36:BA:2238:G:N2	2.32	0.44
36:DA:389:G:O4'	36:DA:2413:G:H4'	2.16	0.44
48:DQ:45:GLN:H	48:DQ:45:GLN:CD	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:146:GLU:OE2	7:CG:149:ARG:HD2	2.17	0.44
57:DZ:155:LEU:CD2	57:DZ:155:LEU:N	2.80	0.44
1:AA:1379:G:C6	1:AA:1380:U:C4	3.05	0.44
1:AA:1458:G:C6	1:AA:1459:C:C4	3.05	0.44
1:CA:745:C:H5''	1:CA:851:G:H1'	1.98	0.44
1:AA:824:C:H2'	1:AA:825:G:C8	2.49	0.44
57:DZ:181:GLU:O	57:DZ:182:LYS:HG3	2.18	0.44
1:CA:47:C:H6	1:CA:365:U:H2'	1.82	0.44
2:AB:149:LEU:O	2:AB:150:SER:C	2.56	0.44
6:CF:22:GLU:O	6:CF:24:GLU:N	2.50	0.44
36:DA:759:G:H2'	36:DA:760:G:C8	2.49	0.44
39:BD:148:GLU:HB2	39:BD:151:LYS:CD	2.46	0.44
3:AC:20:SER:HA	3:AC:57:ILE:O	2.17	0.44
36:DA:1086:A:H3'	36:DA:1086:A:N3	2.32	0.44
42:BG:170:ARG:HE	42:BG:180:PHE:HD2	1.62	0.44
1:CA:765:G:H1	1:CA:812:C:H2'	1.82	0.44
3:CC:127:ARG:NH1	3:CC:127:ARG:HG2	2.32	0.44
36:DA:325:G:O2'	36:DA:326:G:H5'	2.17	0.44
36:DA:1655:A:H4'	40:DE:115:GLY:N	2.31	0.44
1:CA:622:A:C8	1:CA:623:C:C6	3.06	0.44
26:B0:34:GLY:HA3	36:BA:2353:G:H1'	1.98	0.44
52:BU:74:LEU:HD12	52:BU:74:LEU:N	2.32	0.44
1:AA:96:U:O2'	1:AA:97:G:H8	2.00	0.44
7:AG:65:ALA:HB1	7:AG:127:ALA:HB3	2.00	0.44
36:BA:436:C:H2'	36:BA:437:G:H8	1.82	0.44
2:AB:174:VAL:HG13	2:AB:184:VAL:HG11	1.98	0.44
1:CA:50:A:N6	1:CA:361:G:H4'	2.32	0.44
18:CR:40:LEU:O	18:CR:42:ARG:N	2.50	0.44
36:BA:59:U:H3	36:BA:68:G:H1	1.65	0.44
1:AA:967:C:H2'	1:AA:968:A:C8	2.53	0.44
1:CA:688:G:H5'	11:CK:47:VAL:HA	2.00	0.44
45:BN:35:ARG:O	45:BN:36:GLY:C	2.56	0.44
25:CY:681:LYS:HD2	25:CY:681:LYS:O	2.17	0.44
36:BA:1423:G:H2'	36:BA:1424:G:H8	1.82	0.44
5:AE:127:ASN:HA	5:AE:128:PRO:HD3	1.88	0.44
42:DG:98:ARG:HH11	42:DG:98:ARG:HG2	1.81	0.44
57:DZ:13:GLU:O	57:DZ:14:LYS:C	2.56	0.44
25:CY:656:ALA:O	25:CY:660:ARG:HD2	2.17	0.44
36:BA:2531:A:H5''	43:BH:157:TYR:CZ	2.52	0.44
25:CY:182:ARG:HG3	25:CY:182:ARG:HH11	1.82	0.44
25:CY:191:ASP:HB3	25:CY:265:LYS:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2131:G:C8	36:BA:2158:A:N6	2.80	0.44
53:BV:52:VAL:HG22	53:BV:52:VAL:O	2.17	0.44
42:BG:97:ASP:HB3	42:BG:98:ARG:NH1	2.32	0.44
41:DF:10:PRO:HG2	41:DF:13:SER:OG	2.17	0.44
50:DS:95:HIS:O	50:DS:96:GLY:C	2.56	0.44
32:D6:54:ILE:HD13	36:DA:2420:C:H4'	1.99	0.44
53:DV:17:GLY:C	53:DV:18:LEU:HD12	2.37	0.44
53:DV:40:LEU:HD13	53:DV:46:VAL:H	1.82	0.44
53:DV:52:VAL:O	53:DV:52:VAL:HG22	2.17	0.44
45:BN:90:MET:HB3	45:BN:98:VAL:HG22	2.00	0.44
45:DN:67:LEU:HB3	45:DN:88:GLU:HG3	1.98	0.44
47:BP:107:LYS:HG3	47:BP:107:LYS:O	2.17	0.44
51:BT:29:ARG:HA	51:BT:29:ARG:HD2	1.80	0.44
39:DD:133:LEU:HB3	39:DD:173:VAL:HG11	1.98	0.44
36:DA:1245:G:H5''	41:DF:34:TRP:HZ2	1.82	0.44
36:DA:94:C:O2	36:DA:94:C:H2'	2.17	0.44
34:B8:48:PHE:HB3	34:B8:49:VAL:H	1.61	0.44
1:CA:193:C:H2'	1:CA:194:C:C6	2.53	0.44
13:CM:15:VAL:HG11	13:CM:48:LEU:HD11	1.98	0.44
36:DA:2476:A:C2	36:DA:2477:C:C6	3.06	0.44
2:CB:29:ALA:HA	2:CB:32:ILE:HG22	2.00	0.44
1:CA:1490:C:H2'	1:CA:1491:G:C5'	2.47	0.44
9:CI:9:ARG:HG2	9:CI:14:VAL:HA	1.99	0.44
1:AA:963:G:N2	10:AJ:55:LYS:HD3	2.31	0.44
41:BF:132:VAL:HG22	41:BF:133:ASN:ND2	2.32	0.44
14:AN:47:LEU:O	14:AN:48:ALA:C	2.55	0.44
2:AB:11:LEU:O	2:AB:12:GLU:O	2.35	0.44
1:AA:187:C:OP1	20:AT:82:SER:HB2	2.18	0.44
25:AY:331:TYR:CD2	25:AY:399:LEU:HD21	2.53	0.44
5:CE:12:LEU:HD13	5:CE:31:LEU:HB3	1.99	0.44
36:DA:936:C:H2'	36:DA:937:U:C5	2.52	0.44
27:D1:24:ALA:O	27:D1:27:GLU:O	2.34	0.44
36:BA:2316:C:H1'	42:BG:128:ARG:CZ	2.47	0.44
22:AV:17:C:H1'	22:AV:18:G:OP2	2.17	0.44
17:CQ:52:LYS:N	17:CQ:52:LYS:HD2	2.23	0.44
41:DF:88:VAL:HG22	41:DF:89:VAL:N	2.32	0.44
38:BC:182:PRO:HD2	38:BC:185:LYS:CG	2.47	0.44
36:BA:2628:C:O2'	36:BA:2781:A:H2'	2.17	0.44
41:BF:89:VAL:C	41:BF:91:GLY:H	2.20	0.44
36:BA:840:C:C3'	36:BA:841:A:H5''	2.47	0.44
50:DS:59:LYS:HD2	50:DS:61:ASN:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:216:A:H2'	36:DA:217:G:O4'	2.18	0.44
36:DA:1676:A:H2'	36:DA:1677:A:O4'	2.17	0.44
56:BY:31:LEU:CD2	56:BY:31:LEU:N	2.78	0.44
37:BB:87:G:O3'	37:BB:88:C:C6	2.70	0.44
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.52	0.44
36:BA:2389:G:H5''	36:BA:2390:U:C5'	2.44	0.44
25:CY:309:LEU:O	25:CY:390:VAL:HA	2.17	0.44
36:BA:548:A:H2'	36:BA:548:A:N3	2.33	0.44
36:DA:2840:C:H2'	36:DA:2841:C:H6	1.83	0.44
18:CR:32:ARG:HA	18:CR:69:THR:CG2	2.46	0.44
1:AA:1493:A:O2'	1:AA:1494:G:OP1	2.31	0.44
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.47	0.44
36:DA:1029:A:H5''	48:DQ:128:LYS:HE3	2.00	0.44
36:DA:1131:G:C2	36:DA:1132:A:C5	3.06	0.44
45:DN:73:THR:HG23	45:DN:82:LEU:HD11	1.99	0.44
1:CA:559:A:P	5:CE:126:ARG:HH22	2.40	0.44
53:DV:1:MET:HB3	53:DV:2:PHE:H	1.46	0.44
43:DH:105:LEU:HD23	43:DH:113:VAL:O	2.17	0.44
52:DU:104:GLN:HB3	53:DV:44:LYS:HZ1	1.81	0.44
18:CR:74:ARG:HD3	18:CR:81:PHE:CD1	2.52	0.44
1:CA:67:C:O2'	1:CA:171:A:H1'	2.18	0.44
8:CH:38:ILE:O	8:CH:39:LEU:C	2.56	0.44
38:BC:65:LEU:HD21	38:BC:162:ILE:HD11	1.99	0.44
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.44
21:CU:6:ARG:NH2	21:CU:15:ARG:HH21	2.15	0.44
37:BB:5:C:H2'	37:BB:6:C:H6	1.82	0.44
46:DO:32:TYR:CD1	46:DO:32:TYR:N	2.85	0.44
1:AA:751:U:C2'	1:AA:752:G:H5'	2.48	0.44
54:BW:79:GLY:O	54:BW:100:THR:HG22	2.17	0.44
5:CE:10:MET:HG3	5:CE:32:VAL:HG22	1.99	0.44
50:BS:70:GLY:C	50:BS:72:ALA:H	2.21	0.44
57:BZ:30:ASN:C	57:BZ:32:HIS:H	2.21	0.44
36:DA:876:C:H2'	36:DA:877:U:O4'	2.18	0.44
13:CM:89:GLY:O	13:CM:90:LEU:C	2.55	0.44
1:AA:791:G:N2	1:AA:1497:G:O3'	2.45	0.44
36:BA:71:A:H5''	36:BA:72:U:O5'	2.17	0.44
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.54	0.44
1:AA:261:U:O2	1:AA:263:A:C8	2.71	0.44
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.47	0.44
42:DG:38:VAL:CG2	42:DG:158:ALA:HB3	2.46	0.44
25:CY:93:GLU:HG3	59:CY:701:FUA:H72	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:33:LEU:N	25:AY:33:LEU:CD1	2.80	0.44
1:CA:975:A:N6	1:CA:1367:C:O4'	2.50	0.44
36:BA:996:A:O3'	52:BU:92:ARG:HG3	2.17	0.44
52:BU:83:LEU:HD12	52:BU:83:LEU:N	2.32	0.44
53:BV:49:THR:HB	53:BV:50:PRO:CD	2.47	0.44
45:DN:46:VAL:HG13	45:DN:48:MET:CE	2.47	0.44
42:BG:99:MET:O	42:BG:102:PHE:HB3	2.18	0.44
36:BA:2050:C:H1'	40:BE:156:MET:HE2	1.98	0.44
57:DZ:56:VAL:HA	57:DZ:70:LEU:HD23	2.00	0.44
49:BR:31:HIS:HB2	49:BR:34:ILE:HD11	2.00	0.44
13:AM:70:LEU:O	13:AM:71:ARG:C	2.55	0.44
36:DA:1599:C:H2'	36:DA:1600:C:C6	2.53	0.44
28:B2:3:LEU:HD23	28:B2:3:LEU:O	2.18	0.44
32:D6:15:GLU:C	32:D6:16:CYS:O	2.56	0.44
36:DA:272(H):C:H2'	36:DA:272(I):U:C5'	2.45	0.44
36:DA:272(H):C:C5'	36:DA:272(H):C:H6	2.30	0.44
36:DA:1016:G:O2'	36:DA:1017:G:H5'	2.18	0.44
36:DA:1012:U:C5	45:DN:28:THR:HG21	2.52	0.44
36:DA:624:C:H41	47:DP:107:LYS:NZ	2.15	0.44
47:DP:125:VAL:O	47:DP:125:VAL:HG13	2.18	0.44
25:CY:659:LEU:HD11	25:CY:668:SER:N	2.33	0.44
25:AY:244:ALA:O	25:AY:248:LYS:HB2	2.18	0.44
7:CG:16:LEU:HD12	9:CI:42:ARG:HA	2.00	0.44
51:DT:50:ILE:N	51:DT:50:ILE:CD1	2.81	0.44
39:DD:39:LYS:HB2	39:DD:62:TYR:CB	2.41	0.44
41:BF:68:LYS:O	41:BF:70:THR:N	2.45	0.44
28:D2:28:LYS:HB3	28:D2:57:ILE:HD13	2.00	0.44
28:D2:63:VAL:C	28:D2:65:ASN:H	2.20	0.44
25:AY:515:GLU:O	25:AY:515:GLU:HG2	2.18	0.44
9:CI:59:PHE:N	9:CI:59:PHE:CD1	2.86	0.44
20:CT:53:LEU:HB3	20:CT:102:GLY:HA3	1.99	0.44
45:DN:120:LEU:HD13	45:DN:120:LEU:C	2.38	0.44
45:BN:13:TRP:O	45:BN:135:PRO:HD2	2.18	0.44
51:BT:41:ARG:NH2	51:BT:43:GLN:HB2	2.33	0.44
23:AW:1:C:C2	23:AW:2:G:C8	3.06	0.44
56:DY:17:SER:O	56:DY:21:LYS:HG2	2.18	0.44
2:CB:221:LEU:O	2:CB:221:LEU:HD13	2.17	0.44
5:CE:150:ARG:HA	5:CE:153:LYS:HE2	1.98	0.44
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.47	0.44
36:BA:1484:G:O6	36:BA:1506:C:N3	2.51	0.44
47:BP:16:ARG:NH2	47:BP:18:ARG:CG	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:104:ARG:O	8:AH:107:LEU:N	2.50	0.44
13:CM:116:THR:CG2	13:CM:117:VAL:N	2.80	0.44
1:AA:954:G:H2'	1:AA:955:U:C6	2.52	0.44
43:BH:17:VAL:HB	43:BH:45:VAL:HG13	1.98	0.44
2:CB:15:VAL:HG23	2:CB:16:HIS:CE1	2.52	0.44
39:DD:81:ALA:HA	39:DD:113:VAL:CG2	2.47	0.44
22:AV:21:A:N1	22:AV:46:G:C2	2.86	0.44
30:B4:33:VAL:CG1	30:B4:34:GLU:N	2.80	0.44
54:BW:29:LEU:O	54:BW:29:LEU:HD12	2.17	0.44
4:AD:126:ILE:O	4:AD:132:ARG:HB2	2.18	0.44
50:DS:58:LEU:HD12	50:DS:59:LYS:H	1.82	0.44
16:AP:67:THR:HB	16:AP:70:ALA:CB	2.47	0.44
30:D4:12:ALA:HB2	30:D4:29:PRO:HA	1.96	0.44
1:CA:540:G:H2'	1:CA:541:G:O4'	2.18	0.44
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.18	0.44
39:DD:227:ASN:O	39:DD:230:ASP:N	2.45	0.44
38:BC:203:GLU:C	38:BC:205:ALA:H	2.20	0.44
23:AW:38:A:N7	23:AW:39:C:C5	2.85	0.44
46:DO:19:ILE:HD12	46:DO:41:ALA:CB	2.48	0.44
46:BO:86:ILE:N	46:BO:86:ILE:HD12	2.31	0.44
25:AY:175:SER:O	25:AY:188:TYR:HB2	2.17	0.44
36:DA:25:U:H2'	36:DA:26:G:O4'	2.18	0.44
45:DN:82:LEU:C	45:DN:82:LEU:HD23	2.38	0.44
26:B0:49:LYS:O	26:B0:50:ASN:HB2	2.17	0.44
39:DD:65:ILE:N	39:DD:65:ILE:HD13	2.32	0.44
27:B1:45:ASN:CB	36:BA:2230:G:H1'	2.48	0.44
15:CO:39:LEU:CD2	15:CO:43:LEU:HG	2.47	0.44
1:CA:116:A:O2'	1:CA:117:G:H5'	2.18	0.44
36:BA:2850:A:OP2	36:BA:2866:U:C5	2.70	0.44
5:AE:61:TYR:O	5:AE:62:ALA:C	2.53	0.44
36:BA:2513:G:H2'	36:BA:2514:U:C6	2.53	0.44
25:AY:95:GLU:HB3	25:AY:99:ARG:NH1	2.33	0.44
1:CA:403:C:H5''	4:CD:136:PRO:HD2	1.99	0.44
1:AA:357:G:H2'	1:AA:358:U:H6	1.82	0.44
36:DA:2870:C:H2'	36:DA:2871:C:O4'	2.18	0.44
1:AA:813:U:O2'	1:AA:814:A:H5'	2.18	0.44
1:CA:334:C:H2'	1:CA:335:C:C6	2.53	0.44
40:BE:101:ARG:CZ	40:BE:171:GLU:HB2	2.48	0.44
52:DU:113:ALA:C	52:DU:115:ALA:N	2.70	0.44
22:CV:64:A:H2'	22:CV:65:G:C8	2.52	0.44
53:BV:43:GLU:O	53:BV:44:LYS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2026:C:C4	36:DA:2027:G:N7	2.86	0.44
36:DA:2401:U:H2'	36:DA:2402:C:H1'	1.99	0.44
37:DB:5:C:H2'	37:DB:6:C:H6	1.82	0.44
25:AY:296:GLY:O	25:AY:297:GLU:HB3	2.18	0.44
38:BC:11:LEU:C	38:BC:13:GLU:N	2.70	0.44
25:AY:356:LEU:HD21	25:AY:363:ARG:HB3	1.98	0.44
27:D1:5:CYS:SG	27:D1:63:ALA:N	2.84	0.44
57:BZ:129:SER:HB2	57:BZ:131:ARG:HG3	1.99	0.44
25:AY:689:LYS:CG	25:AY:690:GLY:N	2.80	0.44
36:BA:2039:C:O2'	36:BA:2040:C:H5'	2.17	0.44
25:AY:342:TYR:CE2	25:AY:396:ARG:HD2	2.52	0.44
44:DJ:130:UNK:O	44:DJ:132:UNK:N	2.51	0.44
2:AB:194:PRO:O	2:AB:195:ASP:C	2.56	0.44
39:DD:4:LYS:NZ	39:DD:20:ASP:HA	2.33	0.44
1:AA:69:G:H2'	1:AA:70:G:H8	1.82	0.44
4:AD:200:GLU:H	4:AD:200:GLU:CD	2.20	0.44
25:CY:342:TYR:O	25:CY:389:LEU:HA	2.18	0.44
36:DA:1951:U:H2'	36:DA:1953:A:OP2	2.18	0.44
30:D4:5:ILE:N	30:D4:5:ILE:HD13	2.33	0.44
42:DG:34:LEU:CD1	42:DG:34:LEU:O	2.66	0.44
57:DZ:14:LYS:HB2	57:DZ:17:ALA:CB	2.48	0.44
30:B4:50:VAL:HG12	30:B4:51:ASP:N	2.33	0.44
25:CY:329:ARG:CG	25:CY:331:TYR:CZ	3.00	0.44
25:AY:84:THR:O	25:AY:85:PRO:C	2.56	0.44
25:CY:512:ILE:HB	25:CY:565:VAL:HG12	2.00	0.44
55:DX:27:THR:CB	55:DX:80:ILE:HG22	2.48	0.44
53:BV:40:LEU:N	53:BV:40:LEU:CD2	2.81	0.44
30:B4:5:ILE:N	30:B4:5:ILE:HD13	2.32	0.44
42:BG:34:LEU:HD11	42:BG:100:TRP:CZ2	2.53	0.44
42:BG:34:LEU:HD13	42:BG:99:MET:HE3	1.98	0.44
36:DA:814:C:O2'	36:DA:815:C:H5'	2.18	0.44
34:B8:34:TRP:HB2	36:BA:2420:C:OP1	2.18	0.44
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.98	0.44
13:AM:68:GLY:CA	13:AM:71:ARG:HB3	2.48	0.44
36:DA:1845:G:O2'	36:DA:1846:G:H5''	2.16	0.44
39:DD:260:ARG:O	39:DD:260:ARG:HG3	2.18	0.44
56:DY:12:THR:HG22	56:DY:75:ILE:HG21	2.00	0.44
56:DY:28:LYS:HG2	56:DY:39:VAL:HG22	2.00	0.44
36:DA:186:G:C2	36:DA:211:A:C2	3.06	0.44
52:DU:83:LEU:HD12	52:DU:83:LEU:N	2.32	0.44
53:DV:49:THR:HB	53:DV:50:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DV:52:VAL:O	53:DV:52:VAL:HG13	2.18	0.44
40:DE:119:ARG:HD2	40:DE:120:TRP:CE2	2.53	0.44
25:CY:674:ASP:HB3	25:CY:675:HIS:H	1.67	0.44
52:DU:27:LEU:O	52:DU:31:SER:HB3	2.17	0.44
47:BP:85:LEU:HA	47:BP:88:LEU:HB3	1.99	0.44
49:BR:55:ALA:HB2	49:BR:79:LEU:CD1	2.46	0.44
25:AY:414:GLU:HA	25:AY:415:PRO:HD2	1.74	0.44
31:B5:2:ALA:CA	36:BA:2015:A:C1'	2.90	0.44
36:BA:2394:C:P	47:BP:63:PRO:HD2	2.58	0.44
45:BN:128:HIS:HE1	45:BN:134:ARG:HH11	1.66	0.44
49:DR:45:ARG:O	49:DR:46:GLY:C	2.56	0.44
36:DA:2468:G:H5'	48:DQ:120:ILE:HD12	2.00	0.44
36:BA:2809:A:C2	36:BA:2892:A:N3	2.86	0.44
51:BT:79:HIS:O	51:BT:80:SER:CB	2.66	0.44
47:BP:23:PRO:O	47:BP:29:LYS:O	2.36	0.44
31:D5:35:GLU:O	31:D5:36:CYS:HB3	2.17	0.44
10:CJ:8:LEU:HA	10:CJ:95:GLU:O	2.17	0.44
40:BE:199:ARG:HB2	40:BE:199:ARG:HH11	1.82	0.44
13:CM:120:LYS:N	13:CM:120:LYS:HD2	2.33	0.44
1:AA:1053:G:N7	1:AA:1199:U:H2'	2.33	0.44
48:DQ:108:GLY:O	48:DQ:109:VAL:HG23	2.17	0.44
48:DQ:108:GLY:HA3	57:DZ:116:VAL:HG11	1.98	0.44
25:CY:251:ILE:CG2	25:CY:281:PRO:HB3	2.43	0.44
26:D0:41:ARG:NH2	36:DA:2387:U:H4'	2.33	0.44
39:DD:81:ALA:HA	39:DD:113:VAL:HG21	2.00	0.44
57:DZ:145:GLU:HG3	57:DZ:146:ILE:N	2.33	0.44
36:BA:1818:U:H3'	39:BD:157:ARG:HG3	1.99	0.44
36:BA:621:A:C2'	36:BA:622:G:H5'	2.40	0.44
1:CA:441:A:H2'	1:CA:442:C:H5'	1.99	0.44
17:AQ:52:LYS:CD	17:AQ:55:ASP:OD2	2.66	0.44
25:AY:259:PHE:CE1	25:AY:275:ALA:HB1	2.52	0.44
22:AV:19:G:O4'	22:AV:57:G:N2	2.51	0.44
27:D1:35:THR:HG23	27:D1:35:THR:O	2.18	0.44
1:AA:1298:C:O2'	1:AA:1299:A:C2	2.71	0.44
36:DA:92:A:H2'	36:DA:92:A:N3	2.32	0.44
19:AS:51:VAL:O	19:AS:58:VAL:HG22	2.17	0.44
39:DD:13:ARG:O	39:DD:13:ARG:HG2	2.17	0.44
49:BR:86:ARG:HB3	49:BR:118:GLU:OE2	2.17	0.44
57:DZ:125:LEU:HD12	57:DZ:126:VAL:N	2.32	0.44
1:CA:1008:C:O5'	1:CA:1008:C:H6	2.00	0.44
1:AA:300:A:H2'	1:AA:301:G:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:953:G:O6	1:CA:1228:C:N4	2.51	0.44
56:DY:89:PHE:HB3	56:DY:90:LEU:HD23	1.99	0.44
36:DA:548:A:C3'	36:DA:549:G:H5'	2.47	0.44
36:DA:548:A:N3	36:DA:548:A:H2'	2.32	0.44
36:DA:2840:C:H2'	36:DA:2841:C:C6	2.53	0.44
40:BE:201:THR:OG1	40:BE:202:LYS:N	2.50	0.44
36:BA:1196:C:O2'	36:BA:1227:G:H4'	2.17	0.44
36:BA:1680:U:O2	36:BA:1763:G:H3'	2.18	0.44
41:BF:177:ALA:HB1	41:BF:178:PRO:HD2	1.99	0.44
13:AM:14:ARG:NH2	13:AM:42:ALA:HA	2.32	0.44
22:AV:22:G:O2'	22:AV:23:A:H5'	2.18	0.44
42:BG:166:ASP:N	42:BG:166:ASP:OD1	2.50	0.44
33:B7:46:VAL:CG1	33:B7:47:ARG:N	2.80	0.44
33:D7:46:VAL:CG1	33:D7:47:ARG:N	2.80	0.44
12:AL:105:TYR:CD1	12:AL:105:TYR:N	2.84	0.44
36:BA:300:A:P	56:BY:97:ARG:HE	2.41	0.44
25:AY:5:VAL:CG1	25:AY:6:GLU:H	2.31	0.44
52:BU:116:ALA:O	52:BU:117:GLN:NE2	2.51	0.44
7:AG:108:ALA:O	7:AG:110:GLN:N	2.50	0.44
39:DD:77:ALA:CB	39:DD:97:TYR:HA	2.48	0.44
39:DD:77:ALA:HA	39:DD:97:TYR:HA	2.00	0.44
36:BA:74:A:H5''	36:BA:75:G:O4'	2.18	0.44
37:DB:18:G:H2'	37:DB:19:G:H8	1.83	0.44
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.16	0.44
42:DG:47:LYS:H	42:DG:47:LYS:HD3	1.83	0.44
36:DA:685:A:C5	36:DA:774:A:C2	3.05	0.44
6:AF:38:GLU:O	6:AF:39:LYS:C	2.55	0.44
57:BZ:3:TYR:CD2	57:BZ:51:ALA:HB2	2.53	0.44
1:AA:622:A:C8	1:AA:623:C:C6	3.05	0.44
36:DA:766:C:O2'	36:DA:767:U:H5'	2.17	0.44
6:CF:61:LEU:O	6:CF:62:TRP:HB2	2.18	0.44
6:CF:60:PHE:CE2	18:CR:78:LEU:HD21	2.52	0.44
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.81	0.44
36:BA:265:A:H1'	36:BA:266:G:C1'	2.48	0.44
36:BA:265:A:H1'	36:BA:266:G:H1'	2.00	0.44
36:DA:2367:G:H2'	36:DA:2368:C:H6	1.83	0.44
36:DA:2092:U:H4'	36:DA:2093:G:O5'	2.18	0.44
45:DN:79:PRO:C	45:DN:81:GLY:H	2.19	0.44
25:CY:555:LEU:HD11	25:CY:599:PRO:HG2	1.99	0.44
17:CQ:76:LEU:HD21	17:CQ:79:SER:HB2	1.99	0.44
1:AA:877:C:OP1	8:AH:88:LYS:NZ	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:8:VAL:CG2	52:BU:12:ARG:HE	2.31	0.44
36:BA:2701:C:H2'	36:BA:2702:U:H2'	1.99	0.44
49:DR:26:LYS:CE	49:DR:71:GLN:H	2.31	0.44
36:BA:1555:G:N3	36:BA:1555:G:H2'	2.33	0.44
42:DG:71:THR:HG23	42:DG:89:GLY:O	2.18	0.44
57:DZ:13:GLU:O	57:DZ:18:LEU:HD11	2.17	0.44
25:AY:130:VAL:HA	25:AY:131:PRO:HD3	1.76	0.44
41:BF:24:LEU:C	41:BF:115:ALA:HB1	2.38	0.44
1:CA:1316:G:H4'	14:CN:18:VAL:CG1	2.47	0.44
1:CA:1370:G:C2	1:CA:1371:G:N7	2.86	0.44
25:CY:206:LEU:O	25:CY:209:ALA:HB3	2.18	0.44
36:DA:1108:U:H3'	36:DA:1109:C:O4'	2.18	0.44
29:D3:15:TYR:O	29:D3:20:LYS:HE2	2.18	0.44
36:DA:986:C:C2'	36:DA:987:G:H5'	2.48	0.44
12:CL:17:LYS:NZ	12:CL:18:VAL:HG22	2.32	0.44
57:BZ:153:SER:CB	57:BZ:163:LEU:HD13	2.43	0.44
42:BG:61:ALA:HB2	42:BG:68:PRO:HD3	2.00	0.44
49:BR:100:LEU:HD11	49:BR:113:LEU:HB2	1.99	0.44
49:BR:36:THR:OG1	49:BR:37:THR:N	2.51	0.44
49:BR:72:ASP:OD2	49:BR:75:LEU:HB2	2.18	0.44
25:AY:487:ILE:O	25:AY:600:VAL:HG12	2.17	0.44
32:B6:27:LYS:NZ	32:B6:30:THR:HB	2.32	0.44
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.83	0.44
13:AM:23:TYR:CE1	13:AM:70:LEU:HD22	2.53	0.44
28:B2:38:GLN:HA	28:B2:41:ILE:HG12	2.00	0.44
36:DA:605:C:C4	36:DA:606:U:C5	3.06	0.44
47:BP:101:VAL:HA	47:BP:107:LYS:H	1.83	0.44
25:AY:411:VAL:HG12	25:AY:412:ALA:H	1.81	0.44
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.52	0.44
36:BA:1245:G:C5'	41:BF:34:TRP:HZ2	2.31	0.44
41:BF:187:VAL:HG13	47:BP:5:ASP:O	2.18	0.44
47:BP:7:ARG:CB	47:BP:8:PRO:CD	2.93	0.44
25:AY:526:VAL:HG12	25:AY:528:ALA:HB2	2.00	0.44
3:AC:66:VAL:O	3:AC:66:VAL:HG12	2.18	0.44
36:DA:675:A:H4'	41:DF:67:GLN:OE1	2.17	0.44
48:DQ:120:ILE:O	48:DQ:123:HIS:HB2	2.18	0.44
51:BT:33:LYS:HE2	51:BT:43:GLN:OE1	2.16	0.44
36:BA:2884:U:C2'	36:BA:2885:C:H5'	2.48	0.44
47:DP:16:ARG:CZ	47:DP:16:ARG:HB2	2.47	0.44
1:CA:1256:A:C2	1:CA:1277:C:C4	3.05	0.44
1:CA:423:G:C2'	1:CA:424:G:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1030(A):G:H1'	1:CA:1031:G:N1	2.31	0.44
39:BD:43:ARG:NH1	39:BD:49:ILE:HG22	2.32	0.44
1:AA:1256:A:C2	1:AA:1277:C:C4	3.05	0.44
25:CY:74:TRP:HB3	25:CY:79:ILE:HD11	2.00	0.44
42:BG:109:VAL:HG11	42:BG:142:PRO:HB3	1.98	0.44
43:BH:87:LEU:N	43:BH:131:VAL:O	2.43	0.44
37:BB:79:C:H2'	37:BB:80:U:O4'	2.18	0.44
43:DH:83:TYR:HB2	43:DH:84:SER:H	1.47	0.44
13:CM:51:ALA:O	13:CM:55:ARG:HB3	2.17	0.44
36:DA:2443:C:C2'	36:DA:2444:G:H5'	2.48	0.44
36:BA:1029:A:H5''	48:BQ:128:LYS:HE3	1.99	0.44
25:AY:247:ARG:NH1	25:AY:251:ILE:HD11	2.33	0.44
13:AM:33:ALA:HA	13:AM:59:TYR:HE2	1.83	0.44
38:BC:104:ILE:HG22	38:BC:131:ILE:HG21	2.00	0.44
38:BC:128:LEU:HD12	38:BC:132:LEU:CG	2.45	0.44
41:DF:89:VAL:C	41:DF:91:GLY:H	2.19	0.44
36:DA:2628:C:O2'	36:DA:2781:A:H2'	2.18	0.44
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.84	0.44
35:B9:34:GLN:O	35:B9:35:ARG:CB	2.59	0.44
25:AY:416:LYS:NZ	25:AY:417:THR:HG23	2.32	0.44
54:BW:14:PRO:HG2	54:BW:78:GLU:CB	2.47	0.44
15:CO:74:ASP:C	15:CO:76:GLU:N	2.71	0.44
15:CO:76:GLU:C	15:CO:78:TYR:N	2.71	0.44
36:BA:191:A:H2'	36:BA:192:C:H6	1.82	0.44
12:AL:22:SER:C	12:AL:24:VAL:H	2.21	0.44
1:AA:108:G:OP2	1:AA:109:A:C2	2.71	0.44
2:AB:29:ALA:HA	2:AB:32:ILE:HG22	2.00	0.44
1:AA:540:G:H2'	1:AA:541:G:O4'	2.17	0.44
12:CL:11:VAL:HG13	17:CQ:29:HIS:CD2	2.52	0.44
49:BR:103:ARG:HD2	54:BW:40:ASN:OD1	2.18	0.44
36:DA:1362:C:H2'	36:DA:1363:C:H6	1.83	0.44
2:CB:140:HIS:O	2:CB:143:GLU:HB2	2.18	0.44
3:AC:92:ALA:HB2	3:AC:99:VAL:HG22	1.99	0.44
36:DA:2850:A:OP2	36:DA:2866:U:C5	2.71	0.44
5:AE:7:GLU:HG2	5:AE:112:LEU:CD2	2.46	0.44
36:BA:876:C:H2'	36:BA:877:U:O4'	2.17	0.44
1:CA:766:A:C2'	1:CA:767:A:H5'	2.48	0.44
36:DA:566:U:O4	53:DV:78:LYS:HE3	2.18	0.44
41:DF:206:ILE:HG22	41:DF:207:GLY:H	1.83	0.44
1:AA:383:A:H2'	1:AA:384:G:H5'	1.99	0.44
36:DA:2203:U:H2'	36:DA:2203:U:O2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:37:C:H2'	36:DA:37:C:O2	2.18	0.44
36:DA:1442:G:H1	36:DA:1549:C:H42	1.66	0.44
36:BA:2649:U:O2'	36:BA:2650:U:H5'	2.17	0.44
36:DA:1544:A:O2'	36:DA:1545:A:H5'	2.18	0.44
7:CG:93:PRO:HG2	7:CG:94:ARG:H	1.82	0.44
6:CF:16:GLN:N	6:CF:16:GLN:CD	2.72	0.44
21:AU:18:TYR:CD2	21:AU:24:ARG:HG3	2.53	0.44
25:CY:468:ARG:CB	25:CY:468:ARG:HH11	2.31	0.44
36:BA:2835:A:N6	36:BA:2878:U:C6	2.86	0.44
46:DO:88:ASN:HD21	46:DO:90:GLN:HB2	1.83	0.44
5:AE:32:VAL:O	5:AE:43:LEU:HD12	2.18	0.44
1:CA:248:C:O2'	1:CA:249:U:H5'	2.18	0.44
36:DA:2540:C:O2'	36:DA:2541:A:H5'	2.18	0.44
38:DC:37:LYS:O	38:DC:38:PHE:HB3	2.18	0.44
1:CA:1362:C:O2'	1:CA:1363:C:H5''	2.18	0.44
1:CA:1468:A:H2'	1:CA:1469:G:O4'	2.18	0.44
1:CA:125:U:H2'	1:CA:126:G:C8	2.53	0.44
51:BT:67:SER:O	51:BT:68:TYR:HB2	2.18	0.44
56:BY:54:LYS:NZ	56:BY:54:LYS:CB	2.81	0.44
7:CG:136:LYS:HE3	7:CG:136:LYS:HB3	1.80	0.44
36:DA:2508:G:O2'	36:DA:2509:G:H5'	2.18	0.44
36:BA:1006:C:O2'	45:BN:106:MET:HB3	2.18	0.44
36:DA:2701:C:H2'	36:DA:2702:U:H2'	1.99	0.44
25:AY:122:TRP:CZ2	25:AY:159:ALA:HB2	2.52	0.44
41:DF:160:ASN:ND2	41:DF:160:ASN:C	2.71	0.44
36:DA:2310:A:N7	42:DG:75:LYS:HD2	2.33	0.44
36:BA:1042:G:H2'	36:BA:1043:C:C6	2.53	0.44
50:BS:35:ILE:HD11	50:BS:99:LYS:CE	2.47	0.44
36:BA:1599:C:H2'	36:BA:1600:C:C6	2.53	0.44
42:BG:33:ARG:HB2	42:BG:33:ARG:HE	1.53	0.44
3:CC:52:LEU:HD12	3:CC:55:VAL:CG2	2.48	0.44
36:BA:1845:G:O2'	36:BA:1846:G:H5''	2.18	0.44
41:DF:198:ALA:C	41:DF:201:VAL:HG12	2.38	0.44
32:D6:10:LEU:N	32:D6:10:LEU:HD23	2.25	0.44
41:BF:198:ALA:C	41:BF:201:VAL:HG12	2.38	0.44
56:DY:37:VAL:O	56:DY:38:ILE:HB	2.18	0.44
45:DN:1:MET:HE3	45:DN:3:THR:OG1	2.18	0.44
52:DU:92:ARG:O	52:DU:93:LYS:C	2.57	0.44
36:BA:2259:G:O2'	36:BA:2260:C:H5'	2.18	0.44
51:BT:106:SER:C	51:BT:107:ASP:OD1	2.56	0.44
51:BT:28:VAL:HG22	51:BT:47:GLY:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:132:PRO:O	39:DD:133:LEU:C	2.56	0.44
1:CA:1442:G:H2'	51:DT:118:ARG:HH12	1.83	0.44
1:CA:181:G:N2	1:CA:195:A:C4	2.86	0.44
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.17	0.44
36:DA:2810:A:O2'	40:DE:61:ARG:HB2	2.17	0.44
2:CB:215:LEU:O	2:CB:218:ALA:HB3	2.18	0.44
8:CH:104:ARG:O	8:CH:107:LEU:N	2.51	0.44
1:AA:1030(A):G:H1'	1:AA:1031:G:N1	2.31	0.44
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.52	0.44
36:BA:1349:A:N6	36:BA:1598:C:N4	2.66	0.44
36:DA:1660:C:H5'	36:DA:2712(A):A:H61	1.83	0.44
10:CJ:54:PHE:CD1	10:CJ:55:LYS:HE3	2.52	0.44
16:AP:5:ARG:NH2	16:AP:26:ARG:HB2	2.33	0.44
13:CM:117:VAL:O	13:CM:118:ALA:C	2.56	0.44
36:BA:1528:A:O2'	36:BA:1528(A):A:O5'	2.35	0.44
36:BA:1542:A:C8	36:BA:1544:A:H5''	2.53	0.44
39:DD:43:ARG:NH1	39:DD:49:ILE:HG22	2.33	0.44
36:BA:1108:U:H3'	36:BA:1109:C:O4'	2.18	0.44
51:DT:12:SER:O	51:DT:13:ARG:NH2	2.51	0.44
39:BD:155:LEU:N	39:BD:155:LEU:CD1	2.81	0.44
43:BH:41:MET:CE	43:BH:43:VAL:HG12	2.48	0.44
3:CC:128:PHE:O	3:CC:130:VAL:N	2.50	0.44
57:BZ:80:ARG:O	57:BZ:81:ARG:HG2	2.18	0.44
43:DH:41:MET:CE	43:DH:43:VAL:HG12	2.48	0.44
57:DZ:43:GLU:O	57:DZ:47:VAL:HG23	2.18	0.44
36:BA:654(N):G:H2'	36:BA:654(O):G:H5'	2.00	0.44
9:CI:128:ARG:HG2	9:CI:128:ARG:OXT	2.18	0.44
3:AC:159:GLY:HA2	3:AC:193:TYR:CE1	2.53	0.44
42:BG:5:VAL:O	42:BG:7:LEU:N	2.51	0.44
36:BA:2143:C:O2'	36:BA:2144:U:H5'	2.18	0.44
36:DA:871:U:H4'	48:DQ:69:PHE:CE2	2.52	0.44
4:CD:111:ALA:HA	4:CD:116:GLN:OE1	2.17	0.44
48:DQ:51:ARG:HG2	48:DQ:51:ARG:NH1	2.33	0.44
48:DQ:52:VAL:O	48:DQ:53:ALA:C	2.56	0.44
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.38	0.44
4:AD:78:LEU:HB3	4:AD:93:PHE:HE1	1.82	0.44
2:CB:74:LYS:O	2:CB:75:LYS:C	2.56	0.44
49:BR:41:ALA:C	49:BR:43:GLU:H	2.21	0.44
1:AA:500:G:C5'	12:AL:124:LYS:NZ	2.81	0.44
46:BO:24:VAL:HA	46:BO:39:ILE:HG22	1.99	0.44
1:CA:476:G:H2'	1:CA:477:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1754:C:P	51:BT:96:ARG:NH1	2.91	0.44
25:CY:294:PRO:HG2	25:CY:295:GLU:OE2	2.18	0.44
36:DA:2126:A:H1'	36:DA:2127:G:O4'	2.18	0.44
36:DA:2416:C:P	47:DP:66:GLY:HA3	2.57	0.44
49:BR:53:HIS:ND1	49:BR:53:HIS:C	2.72	0.44
1:CA:346:G:H2'	1:CA:347:G:O4'	2.18	0.44
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.58	0.44
36:DA:1057:A:H2'	36:DA:1058:G:H8	1.83	0.44
7:AG:88:PRO:HB3	7:AG:145:ALA:HA	1.99	0.44
12:AL:104:VAL:HG12	12:AL:105:TYR:CD1	2.53	0.44
1:AA:66:G:H4'	1:AA:173:U:H5	1.81	0.44
1:AA:66:G:C4'	1:AA:173:U:C5	2.99	0.44
13:CM:83:ASP:OD1	13:CM:85:GLY:N	2.34	0.44
36:DA:2677:G:O2'	36:DA:2678:C:H5'	2.18	0.44
25:AY:614:GLU:HA	25:AY:617:MET:CB	2.47	0.44
3:CC:146:ALA:O	3:CC:148:GLY:N	2.51	0.44
1:CA:321:A:C2	1:CA:333:G:C2	3.06	0.44
1:AA:47:C:H6	1:AA:365:U:H2'	1.83	0.44
44:DJ:74:UNK:O	44:DJ:76:UNK:N	2.51	0.44
36:DA:2202:C:H2'	39:DD:151:LYS:NZ	2.31	0.44
37:DB:53:A:H2'	37:DB:53:A:N3	2.33	0.44
18:AR:74:ARG:HD3	18:AR:81:PHE:CD1	2.53	0.44
1:AA:236:G:C6	1:AA:237:C:C4	3.06	0.44
1:AA:1465:C:O2'	1:AA:1466:C:H5'	2.17	0.44
38:BC:149:ASN:HD22	38:BC:149:ASN:C	2.21	0.44
1:CA:977:A:C2'	1:CA:978:A:H5'	2.46	0.44
20:CT:73:HIS:HB3	20:CT:74:LYS:HE2	1.98	0.44
36:DA:29:U:O2'	36:DA:30:G:H5'	2.17	0.44
52:DU:70:ARG:HA	52:DU:74:LEU:O	2.18	0.44
38:BC:18:ASN:N	38:BC:18:ASN:OD1	2.51	0.44
36:BA:2447:G:C4	36:BA:2501:C:C4	3.06	0.44
28:B2:48:HIS:CD2	36:BA:96:G:H4'	2.52	0.44
23:CW:19:G:H4'	23:CW:20:U:OP1	2.17	0.44
36:DA:2771:C:H2'	36:DA:2772:C:H6	1.83	0.44
25:CY:142:THR:HG22	25:CY:143:GLY:N	2.33	0.44
1:CA:784:C:H4'	36:DA:1837:C:OP1	2.18	0.44
36:DA:276:A:H4'	36:DA:276:A:OP2	2.18	0.44
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.18	0.44
36:BA:965:C:O2'	36:BA:966:G:H5'	2.18	0.43
42:DG:86:MET:N	42:DG:87:PRO:CD	2.79	0.43
25:CY:462:ILE:CG2	25:CY:466:LEU:HD13	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:167:ALA:CB	41:DF:173:VAL:HG11	2.19	0.43
25:CY:170:ARG:O	25:CY:171:GLU:CG	2.65	0.43
23:AW:68:C:O2'	23:AW:69:C:H5'	2.18	0.43
52:BU:93:LYS:O	52:BU:96:ALA:HB3	2.18	0.43
53:BV:19:LYS:HG3	53:BV:20:LEU:N	2.32	0.43
57:BZ:69:THR:HG22	57:BZ:90:VAL:CA	2.23	0.43
53:DV:15:GLU:O	53:DV:96:ILE:HG21	2.18	0.43
42:BG:57:ALA:O	42:BG:68:PRO:HG2	2.18	0.43
57:DZ:56:VAL:HG12	57:DZ:57:ILE:N	2.33	0.43
32:D6:6:ARG:C	32:D6:8:LYS:H	2.20	0.43
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.66	0.43
56:DY:74:PRO:O	56:DY:75:ILE:HB	2.18	0.43
52:DU:65:ILE:HD11	52:DU:96:ALA:CB	2.48	0.43
31:D5:55:ARG:HD3	31:D5:56:LYS:N	2.32	0.43
36:BA:2261:C:O2'	36:BA:2262:U:H5'	2.18	0.43
36:DA:1015:G:H2'	36:DA:1016:G:C8	2.53	0.43
39:BD:30:GLU:OE1	39:BD:63:ARG:HG2	2.18	0.43
3:CC:35:GLU:OE1	3:CC:97:LYS:HE3	2.18	0.43
36:BA:2307:G:N2	36:BA:2308:G:H5''	2.33	0.43
36:DA:1493:C:O2	36:DA:1493:C:C2'	2.66	0.43
36:BA:27:G:C2'	36:BA:28:A:OP2	2.66	0.43
25:AY:420:ASP:HB3	25:AY:472:VAL:HG13	1.99	0.43
51:DT:106:SER:C	51:DT:107:ASP:OD1	2.57	0.43
36:BA:2810:A:H2'	40:BE:61:ARG:NH2	2.33	0.43
2:CB:21:ARG:HG3	2:CB:21:ARG:O	2.18	0.43
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.20	0.43
23:AW:14:A:C6	23:AW:22:G:C2	3.06	0.43
1:CA:1489:G:C5	1:CA:1490:C:C5	3.06	0.43
1:AA:1030:C:N4	1:AA:1032:G:C2	2.86	0.43
51:DT:62:THR:HG22	51:DT:75:ILE:HG23	2.00	0.43
43:BH:44:VAL:HG12	43:BH:45:VAL:N	2.33	0.43
36:BA:2224:G:H4'	36:BA:2226:C:C2	2.53	0.43
36:BA:1796:U:H2'	36:BA:1797:C:C6	2.53	0.43
23:CW:1:C:C2	23:CW:2:G:C8	3.06	0.43
41:DF:52:LYS:HD3	41:DF:56:GLU:O	2.18	0.43
1:AA:441:A:H2'	1:AA:442:C:H5'	1.99	0.43
57:DZ:121:HIS:N	57:DZ:171:ILE:O	2.51	0.43
36:BA:863:A:O2'	36:BA:864:G:H5'	2.18	0.43
1:AA:1129:C:C6	1:AA:1129:C:H5'	2.42	0.43
12:CL:28:LYS:C	12:CL:30:ALA:N	2.68	0.43
39:BD:13:ARG:HG2	39:BD:13:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:39:VAL:O	12:AL:56:ALA:HA	2.18	0.43
36:DA:786:C:O2'	36:DA:787:U:H5'	2.18	0.43
36:DA:727:A:H2	39:DD:9:TYR:CD2	2.36	0.43
36:DA:955:C:C2'	36:DA:956:G:H5'	2.48	0.43
4:CD:111:ALA:HB3	4:CD:117:ALA:HB2	2.00	0.43
36:DA:2481:G:C2'	36:DA:2482:G:OP2	2.66	0.43
48:DQ:59:ARG:CB	57:DZ:180:VAL:HG23	2.48	0.43
46:DO:13:ASN:ND2	46:DO:97:ARG:HG3	2.33	0.43
35:D9:29:ASN:O	35:D9:31:LYS:N	2.51	0.43
56:BY:42:VAL:HG23	56:BY:67:LEU:HD13	2.00	0.43
49:BR:21:TYR:OH	49:BR:43:GLU:HG2	2.18	0.43
6:AF:46:ARG:HH22	18:AR:37:VAL:CG2	2.29	0.43
33:D7:24:THR:HG23	33:D7:27:GLY:CA	2.48	0.43
36:BA:2247:A:O2'	36:BA:2248:C:H5'	2.18	0.43
36:DA:848:G:H5'	36:DA:849:A:P	2.58	0.43
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.17	0.43
27:D1:84:GLY:O	27:D1:85:LEU:C	2.55	0.43
1:CA:956:U:H2'	1:CA:957:U:H6	1.83	0.43
36:DA:2840:C:H4'	49:DR:53:HIS:HD2	1.83	0.43
6:CF:97:PHE:CD2	18:CR:65:ILE:CD1	3.00	0.43
15:AO:55:GLY:O	15:AO:56:LEU:C	2.55	0.43
36:DA:271(C):C:H2'	36:DA:271(D):G:H8	1.82	0.43
1:CA:1269:A:N1	1:CA:1312:G:O2'	2.41	0.43
25:AY:443:HIS:HE1	25:AY:445:GLU:HB2	1.83	0.43
36:DA:2693:A:H2'	36:DA:2694:G:H8	1.83	0.43
36:DA:78:A:H2'	36:DA:79:G:H8	1.82	0.43
36:DA:1805:U:C2	36:DA:1813:G:N2	2.86	0.43
1:CA:115:G:H1'	1:CA:116:A:N7	2.33	0.43
36:BA:1556:C:H2'	36:BA:1557:C:H6	1.80	0.43
36:BA:910:A:H62	48:BQ:12:GLN:HA	1.82	0.43
41:DF:177:ALA:HB1	41:DF:178:PRO:HD2	2.00	0.43
1:AA:865:A:H5'	1:AA:1078:U:O4	2.18	0.43
7:CG:62:PHE:O	7:CG:65:ALA:N	2.51	0.43
1:CA:937:A:C2	1:CA:1379:G:O6	2.71	0.43
25:AY:350:GLU:HB3	25:AY:380:LEU:HG	1.99	0.43
1:AA:405:U:OP2	4:AD:3:ARG:HD2	2.18	0.43
25:CY:134:ALA:HB3	25:CY:258:VAL:HA	2.00	0.43
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.53	0.43
47:BP:102:ARG:HH11	47:BP:102:ARG:CB	2.31	0.43
52:BU:82:GLY:C	52:BU:84:LYS:H	2.21	0.43
36:BA:2203:U:H2'	36:BA:2203:U:O2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:26:TYR:N	55:BX:26:TYR:CD1	2.86	0.43
1:CA:308:C:H2'	1:CA:309:G:H8	1.83	0.43
36:DA:1074:G:H2'	36:DA:1075:C:C6	2.53	0.43
4:CD:53:ASP:O	4:CD:57:ARG:HD2	2.18	0.43
8:CH:36:LEU:C	8:CH:38:ILE:N	2.71	0.43
36:BA:2132:U:C5	38:BC:6:LYS:HD2	2.53	0.43
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.51	0.43
36:DA:222:A:N6	36:DA:224:G:C2	2.86	0.43
36:BA:1654:A:P	49:BR:3:HIS:HB2	2.58	0.43
3:AC:146:ALA:C	3:AC:148:GLY:H	2.21	0.43
3:AC:138:VAL:O	3:AC:139:GLN:C	2.56	0.43
6:CF:72:VAL:CG1	6:CF:73:ASN:N	2.81	0.43
40:DE:147:PRO:HG2	40:DE:148:GLY:H	1.83	0.43
54:DW:28:SER:C	54:DW:30:GLU:H	2.20	0.43
36:BA:438:G:H2'	36:BA:440:G:H8	1.83	0.43
45:BN:35:ARG:O	45:BN:42:TRP:CZ3	2.71	0.43
1:AA:1056:U:C5'	3:AC:163:ALA:HB2	2.48	0.43
1:AA:157:G:H2'	1:AA:158:G:H8	1.83	0.43
1:CA:811:C:H4'	1:CA:900:A:N6	2.32	0.43
13:AM:72:ALA:O	13:AM:75:ALA:N	2.51	0.43
38:BC:37:LYS:O	38:BC:38:PHE:HB3	2.17	0.43
2:CB:34:ALA:O	2:CB:41:ILE:HB	2.18	0.43
36:DA:106:C:O2	36:DA:106:C:H2'	2.18	0.43
39:DD:99:ASP:OD1	39:DD:99:ASP:C	2.55	0.43
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.18	0.43
25:CY:573:HIS:CD2	25:CY:576:ASP:HB2	2.53	0.43
30:D4:6:HIS:HB3	30:D4:7:PRO:CD	2.48	0.43
25:CY:125:ALA:C	25:CY:127:LYS:H	2.22	0.43
25:AY:613:PRO:C	25:AY:615:GLU:N	2.71	0.43
25:AY:90:PHE:HB2	25:AY:454:MET:CE	2.48	0.43
41:BF:119:ARG:NH1	41:BF:119:ARG:HG2	2.33	0.43
41:BF:160:ASN:ND2	41:BF:160:ASN:C	2.70	0.43
53:BV:38:LEU:C	53:BV:39:LEU:HD13	2.37	0.43
53:BV:39:LEU:HB3	53:BV:47:VAL:HG11	2.00	0.43
48:BQ:134:ARG:NE	57:BZ:122:ARG:HH21	2.16	0.43
57:BZ:151:HIS:O	57:BZ:152:ALA:O	2.37	0.43
36:DA:812:C:H1'	36:DA:1250:G:N2	2.32	0.43
36:BA:2721:A:H2'	36:BA:2722:G:O4'	2.18	0.43
57:DZ:30:ASN:O	57:DZ:32:HIS:N	2.51	0.43
31:B5:53:ALA:O	31:B5:55:ARG:N	2.51	0.43
49:BR:28:LEU:HB2	49:BR:34:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:31:HIS:HE1	36:BA:2392:A:OP2	2.01	0.43
23:CW:4:G:C2	23:CW:5:G:C4	3.05	0.43
39:BD:62:TYR:CE2	39:BD:64:ILE:HA	2.53	0.43
25:CY:644:ARG:O	25:CY:645:ALA:HB2	2.18	0.43
47:BP:112:LEU:HD22	47:BP:113:LYS:N	2.33	0.43
51:DT:28:VAL:HG21	51:DT:46:GLU:CG	2.47	0.43
31:B5:2:ALA:O	31:B5:3:LYS:HB3	2.18	0.43
10:AJ:94:VAL:HG12	10:AJ:95:GLU:H	1.82	0.43
36:BA:2444:G:H2'	36:BA:2445:G:O4'	2.18	0.43
1:CA:1004:A:N1	1:CA:1034:G:H2'	2.33	0.43
51:BT:32:TYR:CD1	51:BT:81:PRO:O	2.69	0.43
5:CE:78:HIS:CE1	5:CE:80:ILE:HG23	2.54	0.43
40:DE:31:CYS:O	40:DE:91:VAL:N	2.52	0.43
2:AB:17:PHE:C	2:AB:17:PHE:CD1	2.91	0.43
36:DA:1782:C:C6	36:DA:2609:U:C5	3.06	0.43
42:BG:41:GLN:NE2	42:BG:153:ARG:HG3	2.33	0.43
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.51	0.43
25:AY:157:LEU:N	25:AY:157:LEU:CD2	2.79	0.43
39:DD:145:VAL:CG1	39:DD:146:GLU:N	2.80	0.43
26:B0:42:GLY:HA3	36:BA:2331:G:H4'	2.00	0.43
20:AT:93:GLU:C	20:AT:95:ALA:N	2.66	0.43
1:CA:186:C:H1'	20:CT:81:LYS:HE2	2.00	0.43
9:CI:95:LYS:C	9:CI:98:PRO:HD2	2.39	0.43
52:BU:57:PHE:O	52:BU:58:ARG:C	2.56	0.43
39:BD:69:ARG:O	39:BD:71:ASP:N	2.51	0.43
34:D8:4:MET:HE3	34:D8:61:LEU:HD22	2.00	0.43
57:DZ:48:PHE:O	57:DZ:50:GLN:N	2.52	0.43
36:BA:1313:U:C2	36:BA:1610:A:H2	2.36	0.43
18:CR:37:VAL:C	18:CR:39:VAL:H	2.21	0.43
36:BA:92:A:H2'	36:BA:92:A:N3	2.32	0.43
42:BG:5:VAL:O	42:BG:6:ALA:C	2.57	0.43
36:DA:904:C:O2'	36:DA:905:U:H5'	2.18	0.43
1:CA:773:G:C2'	1:CA:774:G:H5'	2.48	0.43
36:BA:1185:C:H5'	36:BA:1186:G:OP1	2.18	0.43
27:B1:67:ILE:N	27:B1:68:PRO:CD	2.81	0.43
1:AA:112:G:H4'	1:AA:389:A:H5''	2.00	0.43
36:DA:1678:G:C5	36:DA:1679:U:C5	3.07	0.43
27:D1:45:ASN:ND2	36:DA:2090:G:H21	2.07	0.43
36:BA:886:C:H2'	36:BA:887:A:O4'	2.18	0.43
50:BS:56:LEU:C	50:BS:58:LEU:H	2.21	0.43
1:AA:525:C:OP1	12:AL:91:LYS:HE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:41:ALA:C	49:BR:43:GLU:N	2.70	0.43
4:AD:203:VAL:O	4:AD:206:PHE:HB3	2.17	0.43
50:DS:73:LEU:C	50:DS:73:LEU:HD23	2.37	0.43
1:CA:747:C:H2'	1:CA:748:C:O4'	2.17	0.43
36:DA:2126:A:N1	36:DA:2162:G:O2'	2.51	0.43
36:BA:2636:U:O5'	40:BE:80:GLU:HG3	2.17	0.43
33:D7:8:ASN:C	33:D7:8:ASN:ND2	2.71	0.43
36:BA:788:A:OP2	36:BA:788:A:H8	2.01	0.43
36:BA:529:A:C5	36:BA:2042:A:C2	3.07	0.43
19:AS:5:LEU:HG	19:AS:10:PHE:HD1	1.83	0.43
41:BF:6:VAL:O	41:BF:6:VAL:HG12	2.18	0.43
52:DU:25:TRP:CD1	52:DU:26:GLY:N	2.86	0.43
1:CA:1319:A:OP1	19:CS:10:PHE:CZ	2.71	0.43
36:BA:2170:A:H5''	38:BC:135:ARG:HE	1.84	0.43
48:BQ:135:ASP:O	48:BQ:138:ASP:OD2	2.37	0.43
36:DA:1127:A:C2'	36:DA:1128:A:H5''	2.47	0.43
7:AG:140:ASP:HA	7:AG:143:ARG:HH11	1.82	0.43
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.33	0.43
26:D0:23:VAL:HG11	26:D0:69:PHE:CZ	2.49	0.43
36:BA:1910:G:O2'	36:BA:1911:U:H5'	2.17	0.43
15:AO:9:GLN:HB3	15:AO:13:GLN:NE2	2.33	0.43
36:BA:94:C:O2	36:BA:94:C:H2'	2.18	0.43
40:DE:176:ILE:CG2	40:DE:178:GLU:HB3	2.48	0.43
38:DC:74:ARG:H	38:DC:112:ASP:HB2	1.84	0.43
46:BO:119:PRO:O	46:BO:120:GLU:CB	2.66	0.43
15:CO:57:LEU:N	15:CO:57:LEU:CD2	2.81	0.43
36:DA:2695:C:H2'	36:DA:2696:U:H6	1.82	0.43
36:DA:2649:U:O2'	36:DA:2650:U:H5'	2.18	0.43
7:CG:103:TRP:NE1	7:CG:137:LYS:HD3	2.34	0.43
55:BX:58:HIS:O	55:BX:59:VAL:HG23	2.18	0.43
21:CU:18:TYR:CD2	21:CU:24:ARG:HG3	2.53	0.43
36:BA:1531:C:H2'	36:BA:1532:C:H6	1.82	0.43
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.82	0.43
36:BA:938:G:C2	36:BA:939:G:N7	2.86	0.43
47:DP:124:LYS:HD3	47:DP:143:GLY:CA	2.48	0.43
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.82	0.43
1:AA:260:G:H2'	1:AA:261:U:C6	2.53	0.43
36:BA:1801:G:H3'	36:BA:1802:A:H5'	2.00	0.43
1:CA:72:C:H2'	1:CA:73:G:H8	1.83	0.43
8:AH:74:PRO:O	8:AH:75:ARG:C	2.56	0.43
36:DA:2550:G:C6	36:DA:2551:C:N4	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1756:G:H4'	36:DA:1758:G:O4'	2.18	0.43
36:BA:1565:C:H3'	39:BD:18:VAL:HG21	2.01	0.43
46:DO:71:ARG:HB3	46:DO:72:PRO:HD2	2.00	0.43
1:AA:784:C:H2'	1:AA:785:G:H8	1.83	0.43
36:DA:630:G:H4'	36:DA:640:C:H4'	1.99	0.43
41:BF:100:THR:O	41:BF:100:THR:HG22	2.18	0.43
25:CY:105:ILE:N	25:CY:105:ILE:HD12	2.33	0.43
6:AF:40:VAL:O	6:AF:40:VAL:HG13	2.17	0.43
25:CY:16:GLY:HA3	25:CY:101:LEU:HD21	2.00	0.43
25:CY:462:ILE:HG22	25:CY:462:ILE:O	2.18	0.43
9:CI:119:ALA:O	9:CI:120:ARG:CG	2.55	0.43
25:CY:496:LYS:HE2	25:CY:498:ILE:CD1	2.49	0.43
36:BA:212:G:O2'	36:BA:213:A:H5'	2.17	0.43
1:AA:1371:G:C6	1:AA:1372:U:C4	3.06	0.43
36:DA:2307:G:H3'	36:DA:2308:G:C5'	2.47	0.43
45:DN:46:VAL:HG22	45:DN:47:ALA:N	2.32	0.43
50:BS:89:ARG:HG3	50:BS:92:TYR:N	2.33	0.43
57:BZ:121:HIS:CD2	57:BZ:123:ASP:O	2.71	0.43
50:DS:96:GLY:O	50:DS:98:VAL:HG23	2.19	0.43
32:D6:9:LEU:HD13	32:D6:9:LEU:O	2.18	0.43
34:D8:33:ASN:HA	34:D8:36:LYS:CG	2.48	0.43
34:D8:36:LYS:O	34:D8:37:SER:C	2.56	0.43
25:AY:485:GLU:HB2	25:AY:558:PHE:O	2.17	0.43
28:D2:6:VAL:O	28:D2:10:LEU:HD12	2.19	0.43
56:DY:20:TYR:N	56:DY:20:TYR:CD1	2.85	0.43
39:DD:240:ALA:HB1	39:DD:241:PRO:HD2	2.01	0.43
40:BE:134:ILE:N	40:BE:134:ILE:CD1	2.78	0.43
47:DP:101:VAL:HA	47:DP:107:LYS:H	1.83	0.43
25:CY:678:GLU:HG2	25:CY:679:VAL:N	2.32	0.43
25:AY:181:LEU:HD11	25:AY:242:LEU:HD22	2.00	0.43
39:DD:142:VAL:HG23	39:DD:192:THR:C	2.38	0.43
25:AY:434:GLU:OE1	25:AY:465:ARG:NH2	2.52	0.43
27:B1:76:ARG:HH22	27:B1:95:LEU:CG	2.29	0.43
41:DF:28:ILE:N	41:DF:28:ILE:CD1	2.78	0.43
51:DT:50:ILE:HA	51:DT:99:LEU:HD11	2.00	0.43
31:B5:3:LYS:NZ	36:BA:2613:U:O2'	2.49	0.43
39:DD:34:VAL:CG2	39:DD:35:LYS:H	2.28	0.43
22:AV:4:C:O2'	22:AV:5:G:P	2.76	0.43
53:DV:28:GLU:HB3	53:DV:29:PRO:HD2	1.99	0.43
45:BN:133:GLN:O	45:BN:134:ARG:CB	2.62	0.43
47:DP:46:LYS:CG	47:DP:52:GLU:HG2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1258:C:O4'	41:BF:84:VAL:HG21	2.18	0.43
23:AW:23:C:H2'	23:AW:24:U:H6	1.83	0.43
1:CA:1490:C:H2'	1:CA:1491:G:H5'	2.00	0.43
1:CA:1129:C:H1'	1:CA:1130:A:N7	2.34	0.43
1:CA:1126:U:O4	10:CJ:7:LYS:HE2	2.18	0.43
51:DT:55:ASN:O	51:DT:55:ASN:ND2	2.51	0.43
51:DT:79:HIS:O	51:DT:80:SER:CB	2.65	0.43
36:BA:1516:C:C2'	36:BA:1517:G:C5'	2.83	0.43
36:DA:1541:G:H5''	36:DA:1542:A:OP1	2.18	0.43
36:BA:2312:U:OP1	42:BG:73:ALA:HA	2.18	0.43
42:BG:41:GLN:C	42:BG:43:LEU:H	2.21	0.43
1:AA:965:A:C2	1:AA:969:A:N1	2.86	0.43
1:AA:1227:A:O2'	13:AM:117:VAL:HG21	2.18	0.43
36:DA:915:C:H2'	36:DA:916:G:H8	1.83	0.43
39:BD:145:VAL:CG1	39:BD:146:GLU:N	2.80	0.43
51:BT:12:SER:O	51:BT:13:ARG:NH2	2.51	0.43
51:BT:12:SER:C	51:BT:14:TYR:H	2.22	0.43
51:DT:83:ILE:CG1	51:DT:84:GLN:HG2	2.49	0.43
36:BA:2481:G:C2'	36:BA:2482:G:OP2	2.65	0.43
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.38	0.43
15:AO:85:LEU:HD23	15:AO:85:LEU:O	2.19	0.43
25:AY:64:THR:HG23	25:AY:66:THR:HB	1.99	0.43
36:BA:653:A:H5'	36:BA:654:A:P	2.58	0.43
36:DA:2389:G:C5'	36:DA:2390:U:H5'	2.41	0.43
1:CA:1299:A:C2	1:CA:1301:U:C2	3.07	0.43
36:DA:886:C:H2'	36:DA:887:A:O4'	2.18	0.43
37:DB:87:G:O3'	37:DB:88:C:C6	2.71	0.43
37:DB:92:C:H2'	37:DB:93:G:H8	1.83	0.43
35:B9:29:ASN:O	35:B9:31:LYS:N	2.51	0.43
49:BR:116:LEU:O	49:BR:117:VAL:HB	2.18	0.43
25:CY:358:MET:HE3	25:CY:363:ARG:HG2	1.99	0.43
51:BT:100:TYR:CD1	51:BT:100:TYR:N	2.86	0.43
36:DA:2742:C:C2'	36:DA:2743:C:H5'	2.47	0.43
33:B7:24:THR:HG23	33:B7:27:GLY:CA	2.48	0.43
36:BA:654(R):C:O2'	36:BA:654(S):G:H8	2.00	0.43
2:CB:210:SER:O	2:CB:211:ILE:C	2.55	0.43
1:CA:630:G:H2'	1:CA:631:G:H5'	2.00	0.43
40:DE:14:ILE:HG13	40:DE:21:VAL:HG23	2.00	0.43
51:DT:100:TYR:CD1	51:DT:100:TYR:N	2.86	0.43
26:B0:79:VAL:HG12	26:B0:79:VAL:O	2.17	0.43
25:AY:603:GLU:OE2	25:AY:628:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:470:C:C2'	1:CA:471:G:OP1	2.66	0.43
36:BA:603:A:O2'	36:BA:604:G:P	2.76	0.43
36:BA:203:C:C3'	36:BA:204:A:H5''	2.48	0.43
52:BU:25:TRP:CD1	52:BU:26:GLY:N	2.87	0.43
36:BA:2840:C:H2'	36:BA:2841:C:C6	2.54	0.43
1:CA:347:G:C2	1:CA:348:G:C8	3.06	0.43
36:DA:1034:G:C6	36:DA:1035:U:N3	2.86	0.43
26:B0:48:GLY:HA3	26:B0:80:HIS:ND1	2.33	0.43
43:BH:18:GLU:CB	43:BH:25:LYS:HB2	2.48	0.43
1:AA:1010:G:C2	1:AA:1011:G:C8	3.06	0.43
42:DG:125:PHE:HZ	42:DG:173:LEU:HD12	1.83	0.43
36:DA:1654:A:P	49:DR:3:HIS:HB2	2.58	0.43
33:B7:12:ARG:NH1	33:B7:12:ARG:HG3	2.34	0.43
25:AY:517:LEU:HD11	25:AY:564:LYS:HB3	2.00	0.43
38:BC:65:LEU:HD13	38:BC:189:ASN:HD22	1.83	0.43
49:BR:18:LEU:HD21	49:BR:22:ARG:CZ	2.48	0.43
1:CA:693:G:N2	23:CW:37:A:H2	2.15	0.43
25:CY:192:LEU:HD12	25:CY:194:THR:HG23	2.00	0.43
25:CY:468:ARG:CB	25:CY:468:ARG:NH1	2.82	0.43
48:BQ:32:TYR:CE2	48:BQ:111:GLU:HG3	2.53	0.43
1:CA:61:G:H2'	1:CA:62:U:O4'	2.17	0.43
44:BJ:125:UNK:C	44:BJ:127:UNK:N	2.81	0.43
1:CA:1339:A:H2'	1:CA:1340:A:H5'	1.98	0.43
36:DA:2079:U:H2'	36:DA:2080:G:H8	1.82	0.43
36:DA:1416:G:HO2'	36:DA:1417:C:H5	1.62	0.43
1:AA:155:C:H2'	1:AA:156:G:H8	1.83	0.43
38:BC:62:THR:OG1	38:BC:161:ARG:HD2	2.17	0.43
7:CG:64:GLN:HE21	7:CG:68:ASN:HD21	1.67	0.43
36:BA:1932:A:H2'	36:BA:1933:G:O4'	2.18	0.43
1:CA:150:C:O5'	1:CA:150:C:H6	2.01	0.43
36:BA:276:A:H4'	36:BA:276:A:OP2	2.18	0.43
36:DA:1445(A):C:O2	36:DA:1445(A):C:H2'	2.18	0.43
5:CE:140:ARG:HB2	5:CE:140:ARG:HE	1.45	0.43
1:AA:689:C:O5'	1:AA:689:C:H6	2.01	0.43
8:CH:122:ARG:HB3	8:CH:122:ARG:HH11	1.83	0.43
25:CY:501:THR:HG22	25:CY:501:THR:O	2.18	0.43
43:DH:114:VAL:HG23	43:DH:114:VAL:O	2.18	0.43
25:AY:117:GLN:C	25:AY:119:GLU:N	2.70	0.43
36:DA:2134:A:H2	36:DA:2159:G:O2'	1.99	0.43
50:BS:99:LYS:O	50:BS:100:ALA:C	2.56	0.43
36:BA:137:C:H42	36:BA:143:G:H1	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2292:C:H2'	36:DA:2293:C:H6	1.83	0.43
40:BE:111:ARG:HD2	40:BE:160:TYR:HE2	1.83	0.43
57:DZ:56:VAL:HA	57:DZ:70:LEU:CD2	2.49	0.43
32:D6:54:ILE:HD13	36:DA:2420:C:C4'	2.48	0.43
32:D6:7:ILE:CD1	32:D6:7:ILE:N	2.80	0.43
36:DA:336:C:H1'	56:DY:70:SER:OG	2.19	0.43
56:DY:103:GLY:O	56:DY:104:GLY:C	2.56	0.43
36:DA:210:C:H2'	36:DA:211:A:C8	2.53	0.43
52:DU:112:ARG:HA	52:DU:112:ARG:HD2	1.82	0.43
23:CW:68:C:O2'	23:CW:69:C:H5'	2.18	0.43
32:B6:15:GLU:CD	32:B6:44:ARG:CZ	2.86	0.43
32:B6:43:CYS:CB	32:B6:44:ARG:HH21	2.30	0.43
25:AY:178:ILE:HD11	25:AY:185:ALA:HB1	2.00	0.43
51:BT:64:ARG:HA	51:BT:72:VAL:O	2.19	0.43
39:DD:131:LEU:CD1	39:DD:131:LEU:N	2.76	0.43
25:AY:461:ILE:HD12	25:AY:462:ILE:N	2.33	0.43
27:B1:86:SER:CB	27:B1:90:ILE:HG12	2.43	0.43
20:AT:97:ALA:O	20:AT:99:LEU:N	2.51	0.43
34:B8:56:GLU:HA	34:B8:59:LYS:HZ1	1.83	0.43
36:BA:194:G:H2'	36:BA:195:A:O4'	2.18	0.43
45:BN:120:LEU:HD11	45:BN:122:VAL:CG2	2.48	0.43
50:BS:106:ARG:O	50:BS:107:GLU:HB2	2.18	0.43
50:BS:106:ARG:NH1	50:BS:107:GLU:O	2.51	0.43
5:CE:76:ILE:HD11	5:CE:142:LEU:HD22	1.99	0.43
8:CH:137:VAL:HG12	8:CH:138:TRP:N	2.32	0.43
9:CI:50:LEU:HD23	9:CI:85:LEU:HD23	2.01	0.43
40:BE:51:PHE:O	40:BE:52:LEU:C	2.56	0.43
5:AE:76:ILE:HD11	5:AE:142:LEU:CD2	2.48	0.43
5:AE:78:HIS:HD2	8:AH:107:LEU:HD12	1.84	0.43
8:AH:10:LEU:O	8:AH:13:ILE:HB	2.18	0.43
56:DY:47:LYS:HG3	56:DY:60:PHE:HE1	1.84	0.43
36:DA:519:U:H2'	36:DA:520:G:C8	2.49	0.43
9:AI:19:LEU:HB3	9:AI:59:PHE:HD2	1.84	0.43
16:CP:33:ILE:O	16:CP:34:GLU:CB	2.61	0.43
12:AL:70:ILE:HG21	12:AL:77:LEU:HD12	1.99	0.43
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.18	0.43
25:AY:150:ILE:C	25:AY:152:THR:H	2.22	0.43
1:CA:929:G:O2'	1:CA:930:C:H5'	2.18	0.43
36:BA:227:A:N6	36:BA:410:G:H21	2.16	0.43
51:DT:12:SER:C	51:DT:14:TYR:H	2.22	0.43
48:BQ:51:ARG:NH1	48:BQ:51:ARG:HG2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:59:ARG:NH1	48:BQ:59:ARG:HG3	2.34	0.43
39:DD:91:ARG:O	39:DD:107:ALA:N	2.50	0.43
39:BD:261:LYS:NZ	39:BD:263:ARG:HH22	2.16	0.43
36:DA:1789:A:OP1	39:DD:221:VAL:HA	2.18	0.43
25:AY:64:THR:O	25:AY:66:THR:N	2.39	0.43
46:BO:97:ARG:HG3	46:BO:97:ARG:NH1	2.33	0.43
25:AY:583:LYS:HD3	25:AY:583:LYS:C	2.39	0.43
40:BE:14:ILE:HG13	40:BE:21:VAL:HG23	2.00	0.43
4:AD:111:ALA:HB3	4:AD:117:ALA:HB2	1.99	0.43
36:BA:2461:C:O2	36:BA:2461:C:C2'	2.64	0.43
49:DR:41:ALA:C	49:DR:43:GLU:H	2.22	0.43
36:DA:654(S):G:H3'	36:DA:654(T):C:C4'	2.47	0.43
12:CL:115:LYS:O	12:CL:117:ARG:N	2.51	0.43
4:CD:179:GLU:O	4:CD:181:MET:HG3	2.18	0.43
39:DD:227:ASN:O	39:DD:228:PRO:C	2.55	0.43
25:CY:34:TYR:CD2	25:CY:35:TYR:CE1	3.06	0.43
36:BA:2389:G:C5'	36:BA:2390:U:H5'	2.45	0.43
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.33	0.43
45:BN:73:THR:CG2	45:BN:82:LEU:HD11	2.49	0.43
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.18	0.43
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.51	0.43
40:DE:45:THR:O	40:DE:46:ALA:CB	2.66	0.43
36:BA:2405:G:HO2'	36:BA:2406:U:P	2.41	0.43
49:DR:103:ARG:HD2	54:DW:40:ASN:OD1	2.19	0.43
36:BA:64:A:H2'	36:BA:65:C:C6	2.53	0.43
36:BA:1217:C:H2'	36:BA:1218:C:C6	2.53	0.43
5:AE:34:VAL:O	5:AE:34:VAL:HG13	2.18	0.43
28:B2:61:LEU:O	28:B2:64:LEU:HB3	2.18	0.43
1:AA:116:A:H8	1:AA:116:A:O5'	2.00	0.43
36:DA:1216:G:H2'	36:DA:1217:C:C6	2.53	0.43
38:BC:60:ARG:HG2	38:BC:61:GLY:H	1.83	0.43
42:BG:49:ASP:O	42:BG:50:ALA:CB	2.66	0.43
36:BA:37:C:H2'	36:BA:37:C:O2	2.18	0.43
36:DA:643:A:H2'	36:DA:644:A:O4'	2.17	0.43
8:CH:35:ILE:HG22	8:CH:39:LEU:CD2	2.47	0.43
48:BQ:58:PHE:CD1	48:BQ:58:PHE:O	2.71	0.43
1:AA:398:C:H2'	1:AA:399:G:H8	1.84	0.43
53:BV:81:TYR:C	53:BV:82:ARG:HD2	2.39	0.43
7:AG:93:PRO:HG2	7:AG:94:ARG:H	1.83	0.43
1:AA:1133:G:N2	1:AA:1143:G:H1'	2.34	0.43
38:DC:225:ILE:HD12	38:DC:225:ILE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DX:58:HIS:O	55:DX:59:VAL:HG23	2.19	0.43
46:BO:32:TYR:N	46:BO:32:TYR:CD1	2.86	0.43
11:CK:44:SER:O	11:CK:45:GLY:C	2.55	0.43
20:CT:73:HIS:HB3	20:CT:74:LYS:CD	2.48	0.43
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.53	0.43
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	2.33	0.43
50:DS:70:GLY:C	50:DS:72:ALA:H	2.22	0.43
2:AB:34:ALA:O	2:AB:41:ILE:HB	2.18	0.43
1:CA:445:G:H2'	1:CA:446:G:H8	1.84	0.43
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.54	0.43
36:DA:1651:G:C2	36:DA:2007:C:C2	3.07	0.43
36:DA:575:A:O2'	36:DA:576:U:H5'	2.19	0.43
36:BA:2327:A:H2'	36:BA:2328:A:C8	2.53	0.43
22:CV:43:C:H2'	22:CV:43:C:O2	2.17	0.43
40:BE:54:GLN:HE21	40:BE:54:GLN:HB3	1.56	0.43
25:AY:592:GLU:HG2	25:AY:592:GLU:O	2.18	0.43
11:CK:22:HIS:C	11:CK:22:HIS:CD2	2.92	0.43
36:DA:2303:G:O2'	42:DG:132:ASN:HB2	2.17	0.43
25:CY:312:LEU:O	25:CY:328:ILE:CA	2.66	0.43
25:AY:13:ARG:O	25:AY:79:ILE:HG23	2.18	0.43
25:AY:24:GLY:O	25:AY:25:LYS:C	2.56	0.43
36:DA:2134:A:H2'	36:DA:2134:A:N3	2.33	0.43
25:CY:554:PRO:HG3	25:CY:594:VAL:CG1	2.48	0.43
36:BA:996:A:O3'	52:BU:92:ARG:CG	2.66	0.43
53:BV:40:LEU:HD13	53:BV:46:VAL:H	1.82	0.43
40:DE:39:PRO:HG2	40:DE:40:GLU:OE2	2.18	0.43
47:DP:24:GLY:N	47:DP:33:ARG:CZ	2.80	0.43
32:B6:54:ILE:HD13	36:BA:2420:C:H4'	2.01	0.43
15:AO:76:GLU:C	15:AO:78:TYR:N	2.71	0.43
36:BA:272(H):C:H5'	36:BA:272(H):C:C6	2.48	0.43
41:BF:10:PRO:HG2	41:BF:13:SER:OG	2.19	0.43
36:DA:187:G:N3	36:DA:1365:A:H2	2.17	0.43
53:DV:40:LEU:N	53:DV:40:LEU:CD2	2.81	0.43
13:CM:23:TYR:CD1	13:CM:23:TYR:C	2.92	0.43
47:DP:98:GLU:H	47:DP:101:VAL:HG13	1.83	0.43
31:B5:3:LYS:HE2	36:BA:2613:U:H2'	1.99	0.43
31:B5:3:LYS:HG2	36:BA:747:U:H5	1.81	0.43
36:DA:2744:G:C2	36:DA:2761:G:C4	3.06	0.43
34:B8:50:LEU:CD1	34:B8:51:ALA:H	2.25	0.43
27:D1:76:ARG:CZ	27:D1:95:LEU:HD22	2.49	0.43
34:D8:56:GLU:O	34:D8:59:LYS:HE3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:47:ASP:CB	47:DP:48:PRO:CA	2.91	0.43
51:BT:40:THR:O	51:BT:41:ARG:O	2.37	0.43
31:D5:34:PRO:O	31:D5:35:GLU:CB	2.52	0.43
49:DR:9:LYS:O	49:DR:10:LEU:CD2	2.66	0.43
36:DA:744:G:OP1	40:DE:132:HIS:HB3	2.18	0.43
36:BA:779:U:OP1	39:BD:49:ILE:HG23	2.18	0.43
1:CA:1226:C:H5	13:CM:104:ARG:HB2	1.80	0.43
1:AA:1054:C:H3'	1:AA:1054:C:O2	2.18	0.43
48:DQ:109:VAL:HG12	48:DQ:110:THR:N	2.32	0.43
43:DH:17:VAL:HB	43:DH:45:VAL:HG13	1.99	0.43
18:AR:58:LEU:CD1	18:AR:58:LEU:N	2.81	0.43
23:AW:49:G:C3'	23:AW:50:U:H5''	2.48	0.43
1:CA:930:C:O2'	1:CA:931:C:H5'	2.19	0.43
1:CA:184:G:H2'	1:CA:185:A:H8	1.83	0.43
52:DU:49:HIS:O	52:DU:52:ARG:HB2	2.19	0.43
1:AA:1116:C:O2'	1:AA:1117:G:H5''	2.19	0.43
43:DH:41:MET:HE3	43:DH:43:VAL:HG12	2.01	0.43
52:BU:59:ARG:O	52:BU:60:LEU:C	2.55	0.43
30:D4:33:VAL:CG1	30:D4:34:GLU:N	2.81	0.43
12:CL:39:VAL:O	12:CL:56:ALA:HA	2.18	0.43
36:DA:2182:G:H2'	36:DA:2183:C:C6	2.53	0.43
36:BA:87:C:OP2	36:BA:90:U:O4	2.36	0.43
49:DR:86:ARG:HB3	49:DR:118:GLU:OE2	2.18	0.43
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.38	0.43
50:BS:77:ALA:O	50:BS:78:LEU:C	2.55	0.43
26:D0:3:HIS:NE2	36:DA:2602:A:H2	2.16	0.43
36:BA:881:G:H2'	36:BA:882:G:C5'	2.47	0.43
33:B7:24:THR:HG23	33:B7:27:GLY:N	2.34	0.43
36:BA:658:C:H2'	36:BA:659:C:H6	1.78	0.43
36:BA:48:G:N2	36:BA:177:G:N2	2.67	0.43
31:D5:41:PRO:O	31:D5:44:THR:OG1	2.27	0.43
36:BA:786:C:O2'	36:BA:787:U:H5'	2.18	0.43
36:DA:191:A:O5'	36:DA:191:A:H8	2.01	0.43
36:BA:1224:C:O2'	53:BV:85:LYS:HG2	2.19	0.43
19:AS:4:SER:O	19:AS:5:LEU:C	2.56	0.43
18:AR:32:ARG:HA	18:AR:69:THR:CG2	2.48	0.43
18:AR:68:LYS:O	18:AR:71:LYS:N	2.49	0.43
1:CA:1259:C:C5	1:CA:1260:C:O2	2.71	0.43
47:DP:13:ASN:ND2	47:DP:13:ASN:N	2.65	0.43
43:BH:136:ILE:N	43:BH:136:ILE:CD1	2.81	0.43
48:BQ:47:ILE:HD12	48:BQ:70:PRO:HD3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DU:116:ALA:O	52:DU:117:GLN:NE2	2.51	0.43
1:AA:937:A:C2	1:AA:1379:G:O6	2.71	0.43
36:DA:1805:U:C2	36:DA:1813:G:C2	3.06	0.43
1:AA:415:A:H2'	1:AA:416:G:H8	1.82	0.43
36:BA:2680:C:H2'	36:BA:2680:C:O2	2.18	0.43
1:AA:927:G:O2'	1:AA:928:G:H5'	2.19	0.43
10:CJ:18:ALA:C	10:CJ:20:ALA:N	2.71	0.43
25:CY:631:ILE:HG21	36:DA:1067:A:C4	2.53	0.43
27:D1:20:ARG:NH1	27:D1:20:ARG:HG2	2.32	0.43
1:CA:518:C:H5''	1:CA:519:C:C6	2.54	0.43
3:CC:20:SER:HA	3:CC:57:ILE:O	2.17	0.43
36:BA:2517:C:C6	36:BA:2542:A:C2	3.06	0.43
1:AA:334:C:H2'	1:AA:335:C:C6	2.53	0.43
37:BB:53:A:N3	37:BB:53:A:H2'	2.33	0.43
1:AA:923:A:OP1	5:AE:21:ALA:HB2	2.18	0.43
36:DA:1767:C:H2'	36:DA:1768:U:O4'	2.18	0.43
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.66	0.43
36:DA:311:A:H5'	36:DA:332:A:C2	2.54	0.43
11:CK:29:ILE:HB	11:CK:44:SER:HB2	1.99	0.43
8:AH:27:PRO:HA	8:AH:58:TYR:CD1	2.54	0.43
36:DA:2835:A:N6	36:DA:2878:U:C6	2.87	0.43
52:DU:74:LEU:HD12	52:DU:74:LEU:N	2.34	0.43
46:BO:71:ARG:HB3	46:BO:72:PRO:HD2	2.00	0.43
18:CR:25:THR:C	18:CR:26:LEU:HD23	2.38	0.43
36:DA:487:C:H1'	54:DW:53:SER:HA	2.00	0.43
1:CA:17:U:H2'	1:CA:18:C:C6	2.54	0.43
38:DC:141:PRO:C	38:DC:143:ALA:H	2.22	0.43
1:CA:1378:C:O2	7:CG:76:ARG:NH2	2.51	0.43
39:DD:233:HIS:O	39:DD:234:GLY:O	2.36	0.43
36:DA:1199:U:H2'	36:DA:1200:C:C6	2.53	0.43
1:CA:680:C:O2'	1:CA:681:C:H5'	2.18	0.43
2:AB:23:ARG:HA	2:AB:23:ARG:HD2	1.79	0.43
12:CL:69:TYR:O	12:CL:71:PRO:HD3	2.19	0.43
22:AV:36:A:N3	25:AY:502:GLY:HA2	2.34	0.43
25:CY:124:GLN:CA	25:CY:127:LYS:HD2	2.44	0.43
25:CY:313:ALA:HA	25:CY:327:PHE:O	2.18	0.43
25:CY:97:SER:O	25:CY:101:LEU:N	2.52	0.43
1:AA:980:C:O2	14:AN:19:ARG:HA	2.18	0.43
27:B1:12:PRO:HG2	36:BA:1365:A:H5'	2.00	0.43
36:BA:2012:G:O3'	54:BW:96:ILE:HG13	2.19	0.43
42:BG:63:ILE:CD1	42:BG:64:THR:HB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:97:ASP:CB	42:BG:98:ARG:NH1	2.81	0.43
3:CC:50:ALA:CB	3:CC:70:VAL:HG11	2.39	0.43
41:DF:7:TYR:OH	41:DF:10:PRO:HG3	2.17	0.43
41:DF:195:ASP:HB3	41:DF:198:ALA:HB2	2.01	0.43
29:B3:31:LEU:HD22	29:B3:32:GLN:H	1.83	0.43
50:DS:98:VAL:C	50:DS:100:ALA:N	2.72	0.43
37:DB:75:G:H1'	57:DZ:27:VAL:HG11	2.01	0.43
32:D6:27:LYS:CD	32:D6:30:THR:HB	2.44	0.43
25:AY:550:MET:HE3	25:AY:563:ILE:HD11	2.00	0.43
52:DU:64:ARG:O	52:DU:68:ALA:N	2.51	0.43
36:DA:137:C:H42	36:DA:143:G:H1	1.65	0.43
36:BA:1024:G:OP2	36:BA:1026:U:OP1	2.36	0.43
31:D5:55:ARG:NH2	49:DR:33:ARG:HD3	2.33	0.43
36:BA:2345:G:C3'	36:BA:2346:A:H5'	2.49	0.43
31:D5:6:VAL:CG1	36:DA:2016:U:H1'	2.48	0.43
47:DP:112:LEU:C	47:DP:112:LEU:HD13	2.39	0.43
47:DP:112:LEU:HD22	47:DP:113:LYS:N	2.33	0.43
25:AY:206:LEU:O	25:AY:209:ALA:HB3	2.18	0.43
50:BS:15:ARG:CB	50:BS:18:ILE:HD11	2.48	0.43
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.82	0.43
49:BR:76:VAL:HG13	49:BR:77:ARG:N	2.33	0.43
51:DT:117:ASP:OD2	51:DT:120:ARG:HG3	2.18	0.43
36:BA:1245:G:H5''	41:BF:34:TRP:HZ2	1.84	0.43
20:AT:100:ILE:HG13	20:AT:101:GLY:H	1.84	0.43
25:AY:512:ILE:HG12	25:AY:514:VAL:HG23	1.99	0.43
39:DD:85:ASP:HB2	39:DD:92:ILE:HG23	2.00	0.43
46:BO:61:VAL:O	46:BO:61:VAL:HG13	2.18	0.43
36:BA:154(A):C:H42	36:BA:172:C:N4	2.17	0.43
26:D0:25:ARG:HA	26:D0:29:GLN:HE22	1.83	0.43
36:DA:1376:C:H2'	36:DA:1376:C:O2	2.18	0.43
36:DA:2573:C:OP1	36:DA:2574:G:OP1	2.36	0.43
51:BT:55:ASN:HD22	51:BT:58:ASN:HD21	1.67	0.43
2:CB:19:HIS:CD2	2:CB:20:GLU:HG2	2.54	0.43
5:CE:77:PRO:HG2	5:CE:78:HIS:H	1.84	0.43
40:BE:31:CYS:HB3	40:BE:49:LEU:HB3	2.00	0.43
5:AE:76:ILE:HD11	5:AE:142:LEU:HD22	1.99	0.43
36:BA:1783:A:C2	36:BA:2587:A:C4	3.07	0.43
36:DA:363(E):U:O2'	36:DA:363(F):A:O4'	2.37	0.43
25:AY:404:VAL:H	25:AY:405:PRO:HD3	1.81	0.43
1:CA:129(A):G:H5''	1:CA:129(A):G:H8	1.84	0.43
13:CM:91:ARG:CD	13:CM:97:PRO:O	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:29:GLY:O	27:B1:31:GLY:N	2.52	0.43
25:CY:13:ARG:O	25:CY:79:ILE:HG23	2.18	0.43
36:DA:2776:A:C6	36:DA:2782:G:H1'	2.52	0.43
1:CA:1190:G:OP1	3:CC:5:ILE:N	2.43	0.43
36:BA:1107:G:H2'	36:BA:1108:U:C6	2.53	0.43
31:D5:27:PRO:HG3	54:DW:23:LEU:CD1	2.45	0.43
41:BF:192:LEU:CD2	41:BF:194:MET:HG3	2.45	0.43
4:CD:40:PRO:HB2	4:CD:41:GLY:H	1.63	0.43
41:DF:68:LYS:HG3	41:DF:69:HIS:HD2	1.81	0.43
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.82	0.43
14:CN:29:ARG:CG	14:CN:29:ARG:NH1	2.81	0.43
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.81	0.43
49:DR:78:LYS:O	49:DR:78:LYS:CG	2.65	0.43
4:CD:126:ILE:O	4:CD:132:ARG:HB2	2.18	0.43
48:DQ:51:ARG:HG2	48:DQ:51:ARG:HH11	1.84	0.43
36:BA:418:G:H2'	36:BA:419:C:C6	2.54	0.43
36:BA:869:G:C2'	36:BA:870:A:H5'	2.49	0.43
35:D9:22:ARG:O	35:D9:24:TYR:HD1	2.01	0.43
26:D0:81:VAL:HG12	26:D0:81:VAL:O	2.18	0.43
25:CY:346:LYS:HZ3	25:CY:384:ILE:HG12	1.83	0.43
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.39	0.43
1:AA:277:C:C2'	1:AA:278:G:H5'	2.49	0.43
31:D5:43:HIS:CD2	36:DA:2815:C:O2'	2.71	0.43
36:DA:418:G:H2'	36:DA:419:C:C6	2.54	0.43
1:AA:159:G:C3'	1:AA:160:A:H5''	2.49	0.43
50:BS:73:LEU:HD23	50:BS:73:LEU:C	2.39	0.43
25:CY:309:LEU:HD21	25:CY:335:LEU:HD13	2.01	0.43
36:DA:2170:A:OP1	38:DC:135:ARG:NH2	2.52	0.43
47:DP:71:VAL:O	47:DP:72:PRO:C	2.56	0.43
27:B1:27:GLU:O	27:B1:28:GLY:C	2.56	0.43
13:AM:124:PRO:HG2	25:AY:574:GLU:N	2.32	0.43
25:AY:498:ILE:O	25:AY:498:ILE:HG13	2.19	0.43
36:DA:299:A:H5'	56:DY:97:ARG:HE	1.82	0.43
37:DB:36:C:H2'	37:DB:37:C:H6	1.83	0.43
43:BH:105:LEU:HD23	43:BH:113:VAL:HB	2.00	0.43
5:AE:9:LYS:NZ	5:AE:111:GLU:OE1	2.52	0.43
5:AE:33:VAL:HG12	5:AE:34:VAL:H	1.82	0.43
25:AY:5:VAL:CG1	25:AY:6:GLU:N	2.80	0.43
36:BA:759:G:H2'	36:BA:760:G:C8	2.49	0.43
11:AK:126:ARG:O	11:AK:127:LYS:C	2.57	0.43
25:AY:635:GLU:HA	25:AY:636:PRO:HD2	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1773:A:C2	36:BA:1977:A:N1	2.86	0.43
36:BA:2081:C:H2'	36:BA:2082:A:C8	2.54	0.43
36:BA:2818:G:H4'	36:BA:2837:G:C4'	2.49	0.43
36:DA:1317:A:H2'	36:DA:1318:C:C6	2.54	0.43
42:BG:170:ARG:HH21	42:BG:180:PHE:CB	2.31	0.43
32:B6:33:LYS:CG	32:B6:34:LEU:H	2.30	0.43
1:CA:826:C:H2'	1:CA:827:U:C6	2.50	0.43
1:AA:64:G:N2	1:AA:67:C:C4	2.86	0.43
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.83	0.43
38:BC:84:ILE:O	38:BC:95:VAL:HG11	2.18	0.43
36:BA:2358:G:O2'	36:BA:2359:C:H5'	2.19	0.43
2:CB:97:TRP:CH2	2:CB:176:GLU:CD	2.91	0.43
36:BA:1637:A:H4'	36:BA:2711:A:O2'	2.19	0.43
14:AN:2:ALA:O	14:AN:6:LEU:HD12	2.18	0.43
36:DA:2154:G:C2	36:DA:2155:G:C4	3.06	0.43
36:DA:218:A:C2	36:DA:235:U:H4'	2.53	0.43
25:AY:359:HIS:C	25:AY:361:ASN:H	2.22	0.43
54:DW:79:GLY:O	54:DW:100:THR:HG22	2.19	0.43
1:CA:157:G:H2'	1:CA:158:G:H8	1.84	0.43
1:AA:103:C:H3'	1:AA:104:G:H8	1.83	0.43
49:BR:59:ASP:O	49:BR:60:LEU:C	2.57	0.43
11:AK:60:ALA:O	11:AK:61:ALA:C	2.55	0.43
7:AG:41:ARG:HG2	7:AG:41:ARG:HH11	1.84	0.43
25:CY:64:THR:O	25:CY:64:THR:HG23	2.18	0.43
3:CC:67:THR:HG23	3:CC:102:ASN:HB2	2.00	0.43
46:BO:19:ILE:HD12	46:BO:41:ALA:HB3	1.99	0.43
42:DG:41:GLN:O	42:DG:43:LEU:N	2.47	0.43
42:DG:59:GLU:HA	42:DG:62:LEU:HD13	2.01	0.43
25:CY:126:GLU:HB3	25:CY:132:ARG:HH12	1.84	0.43
25:CY:146:LEU:HD22	25:CY:150:ILE:HD11	2.01	0.43
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.54	0.43
53:BV:17:GLY:C	53:BV:18:LEU:HD12	2.39	0.43
57:BZ:4:ARG:O	57:BZ:5:LEU:HB2	2.19	0.43
48:BQ:137:TYR:N	48:BQ:137:TYR:CD1	2.86	0.43
55:BX:34:ALA:HA	55:BX:38:GLU:OE1	2.19	0.43
10:CJ:78:ASN:C	10:CJ:79:ARG:NH1	2.72	0.43
32:B6:8:LYS:O	32:B6:9:LEU:O	2.36	0.43
56:BY:38:ILE:O	56:BY:39:VAL:C	2.57	0.43
39:BD:136:ILE:HD12	39:BD:136:ILE:N	2.33	0.43
25:CY:227:ILE:O	25:CY:227:ILE:CG2	2.65	0.43
36:DA:1097:U:H2'	36:DA:1098:A:H5'	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:107:LYS:C	47:DP:109:GLY:H	2.22	0.43
47:DP:114:ILE:O	47:DP:130:PHE:HA	2.19	0.43
10:AJ:16:LEU:O	10:AJ:16:LEU:HD13	2.19	0.43
26:B0:25:ARG:HG2	26:B0:25:ARG:HH11	1.83	0.43
17:CQ:59:ILE:HA	17:CQ:59:ILE:HD13	1.85	0.43
20:CT:52:ALA:O	20:CT:53:LEU:C	2.56	0.43
45:DN:131:GLN:NE2	45:DN:133:GLN:H	2.16	0.43
26:D0:67:VAL:HG12	26:D0:68:GLU:N	2.33	0.43
25:AY:9:LEU:C	25:AY:9:LEU:CD2	2.86	0.43
27:D1:86:SER:HB3	27:D1:89:GLU:HB2	2.01	0.43
36:BA:310:A:OP2	56:BY:18:GLY:HA2	2.17	0.43
23:AW:6:G:H1	23:AW:67:C:N4	2.14	0.43
51:DT:32:TYR:O	51:DT:41:ARG:O	2.36	0.43
51:DT:74:ARG:C	51:DT:75:ILE:HD12	2.39	0.43
3:CC:78:GLY:CA	3:CC:83:ARG:HB3	2.49	0.43
1:CA:1226:C:HO2'	1:CA:1227:A:P	2.41	0.43
1:AA:954:G:N2	1:AA:1228:C:N3	2.66	0.43
16:CP:22:THR:OG1	16:CP:23:ASP:N	2.52	0.43
42:BG:110:ALA:HA	42:BG:140:ILE:O	2.18	0.43
18:AR:44:LEU:CD1	18:AR:44:LEU:N	2.81	0.43
36:DA:2873:A:H4'	49:DR:8:ARG:NH2	2.34	0.43
39:DD:127:VAL:HA	39:DD:193:VAL:HG13	2.00	0.43
3:CC:6:HIS:HD2	3:CC:7:PRO:CD	2.31	0.43
38:DC:31:LYS:HD3	38:DC:31:LYS:O	2.19	0.43
36:BA:2872:G:C2	36:BA:2873:A:N6	2.87	0.43
3:AC:178:LEU:C	3:AC:180:ALA:H	2.21	0.43
39:DD:196:VAL:HG12	39:DD:196:VAL:O	2.18	0.43
1:AA:1129:C:H1'	1:AA:1130:A:N7	2.34	0.43
48:BQ:37:LEU:HD12	48:BQ:128:LYS:HB3	2.00	0.43
13:AM:54:VAL:HA	13:AM:57:ARG:HE	1.83	0.43
3:AC:134:ILE:O	3:AC:135:LYS:C	2.57	0.43
38:BC:98:GLU:HA	38:BC:101:ILE:HD13	1.99	0.43
1:CA:1299:A:C2	1:CA:1301:U:N3	2.87	0.43
36:BA:1219:G:C2	36:BA:1221:C:N4	2.87	0.43
25:CY:326:THR:OG1	25:CY:377:VAL:HG22	2.18	0.43
16:CP:67:THR:O	16:CP:70:ALA:HB3	2.18	0.43
12:CL:87:GLY:HA2	12:CL:98:TYR:HA	2.00	0.43
46:DO:11:ALA:O	46:DO:98:VAL:HA	2.19	0.43
54:BW:109:GLU:CD	54:BW:109:GLU:N	2.69	0.43
54:BW:68:ARG:O	54:BW:109:GLU:HA	2.19	0.43
54:BW:1:MET:HB3	54:BW:64:MET:HE3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2464:C:O2'	36:BA:2465:C:P	2.77	0.43
26:D0:79:VAL:HG12	26:D0:79:VAL:O	2.18	0.43
33:D7:24:THR:HG23	33:D7:27:GLY:N	2.34	0.43
2:AB:210:SER:O	2:AB:211:ILE:C	2.56	0.43
2:AB:80:ILE:N	2:AB:80:ILE:HD12	2.32	0.43
42:BG:159:VAL:HG13	42:BG:159:VAL:O	2.19	0.43
36:BA:1754:C:H2'	36:BA:1755:A:O4'	2.19	0.43
36:DA:1429:G:H2'	36:DA:1430:C:C6	2.53	0.43
1:CA:1522:U:H2'	1:CA:1523:G:C8	2.54	0.43
23:AW:40:C:O2'	23:AW:41:C:H5'	2.18	0.43
13:CM:54:VAL:HA	13:CM:57:ARG:HE	1.82	0.43
36:DA:1996:C:H4'	36:DA:1997:G:H5'	2.01	0.43
36:BA:569:U:H2'	36:BA:570:G:O4'	2.18	0.43
36:BA:754:C:H2'	36:BA:755:C:H6	1.83	0.43
57:DZ:139:VAL:CG1	57:DZ:141:VAL:HG23	2.48	0.43
36:DA:2076:U:H5'	36:DA:2238:G:N2	2.31	0.43
26:B0:49:LYS:HE3	26:B0:80:HIS:CD2	2.54	0.43
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.99	0.43
1:CA:116:A:O5'	1:CA:116:A:H8	2.02	0.43
42:DG:107:LEU:HD13	42:DG:177:GLY:O	2.18	0.43
56:DY:55:TYR:O	56:DY:56:PRO:C	2.57	0.43
25:AY:380:LEU:O	25:AY:381:LYS:CE	2.67	0.43
26:D0:46:LYS:HD2	26:D0:78:TYR:CZ	2.53	0.43
6:CF:18:GLN:HE21	6:CF:18:GLN:HB2	1.62	0.43
33:B7:34:ARG:NH1	33:B7:39:ARG:HG3	2.32	0.43
1:CA:909:A:H2'	1:CA:910:C:O4'	2.19	0.43
40:DE:101:ARG:CZ	40:DE:171:GLU:HB2	2.49	0.43
6:AF:35:ALA:O	6:AF:36:ARG:C	2.57	0.43
44:BJ:72:UNK:O	44:BJ:73:UNK:CB	2.66	0.43
26:B0:5:LYS:HZ3	26:B0:5:LYS:HB3	1.84	0.43
30:B4:39:CYS:SG	30:B4:42:PHE:CD2	2.99	0.43
25:CY:340:TYR:O	25:CY:392:GLU:HB3	2.19	0.43
36:BA:2773:C:O2'	36:BA:2774:C:H5'	2.19	0.43
25:CY:549:ALA:HB2	25:CY:587:SER:CB	2.48	0.43
36:BA:685:A:C5	36:BA:774:A:C2	3.06	0.43
39:BD:268:ARG:HB3	39:BD:268:ARG:CZ	2.49	0.43
36:BA:271(K):U:H3'	36:BA:271(L):U:C5'	2.48	0.43
14:CN:2:ALA:O	14:CN:6:LEU:HD12	2.19	0.43
57:DZ:77:ASP:O	57:DZ:77:ASP:CG	2.57	0.43
47:BP:124:LYS:HD3	47:BP:143:GLY:CA	2.48	0.43
36:DA:2697:G:H2'	36:DA:2698:U:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:72:ALA:O	13:AM:73:GLU:C	2.57	0.43
7:AG:41:ARG:HG2	7:AG:41:ARG:NH1	2.33	0.43
1:CA:151:A:C2'	1:CA:152:A:H5'	2.49	0.43
1:AA:1378:C:O2	7:AG:76:ARG:NH2	2.51	0.43
36:BA:2570:G:H2'	36:BA:2571:C:O4'	2.18	0.43
36:DA:2545:G:N3	36:DA:2565:A:H2	2.16	0.43
1:CA:370:C:O2'	1:CA:371:G:H5'	2.19	0.43
25:CY:680:PRO:O	25:CY:682:GLN:N	2.47	0.43
49:DR:37:THR:HG23	49:DR:40:LYS:HE2	2.00	0.43
54:DW:86:LEU:N	54:DW:94:ASP:O	2.42	0.43
1:AA:505:G:H5'	1:AA:534:U:H2'	2.00	0.43
39:BD:197:GLY:O	39:BD:198:ASN:HB3	2.18	0.43
36:BA:1445(A):C:O2	36:BA:1445(A):C:H2'	2.18	0.43
8:CH:49:GLU:HG3	8:CH:49:GLU:O	2.19	0.43
43:BH:114:VAL:HG23	43:BH:114:VAL:O	2.18	0.43
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.83	0.43
24:CX:11:A:O4'	24:CX:12:A:H8	2.01	0.43
41:BF:160:ASN:HD21	41:BF:162:LEU:HB2	1.83	0.43
25:CY:147:TRP:HE3	25:CY:150:ILE:HD12	1.84	0.43
36:BA:2134:A:H2	36:BA:2159:G:O2'	2.00	0.43
52:BU:96:ALA:C	52:BU:98:LEU:N	2.70	0.43
36:DA:949:C:H2'	36:DA:950:G:C8	2.53	0.43
36:DA:2293:C:OP1	50:DS:92:TYR:OH	2.36	0.43
50:DS:93:LYS:O	50:DS:94:TYR:C	2.57	0.43
57:DZ:55:HIS:O	57:DZ:57:ILE:HD12	2.19	0.43
34:D8:32:LEU:HB3	34:D8:36:LYS:HZ2	1.84	0.43
32:D6:15:GLU:CD	32:D6:44:ARG:CZ	2.87	0.43
32:B6:15:GLU:C	32:B6:16:CYS:O	2.55	0.43
25:CY:603:GLU:C	25:CY:676:TYR:HD1	2.21	0.43
25:CY:624:LEU:HA	25:CY:627:ARG:HB2	2.01	0.43
25:AY:223:PHE:CD2	25:AY:245:ALA:O	2.72	0.43
51:DT:85:LYS:HZ3	51:DT:85:LYS:HB3	1.80	0.43
36:DA:1240:U:O2'	36:DA:1241:A:H5'	2.19	0.43
47:DP:6:LEU:HG	47:DP:7:ARG:N	2.34	0.43
51:DT:112:ARG:O	51:DT:115:ARG:HD3	2.19	0.43
10:AJ:8:LEU:HA	10:AJ:95:GLU:O	2.18	0.43
55:BX:24:GLY:HA3	55:BX:82:GLN:NE2	2.33	0.43
1:CA:254:G:O2'	1:CA:255:G:H5'	2.19	0.43
22:AV:2:C:H2'	22:AV:3:C:C6	2.54	0.43
55:DX:24:GLY:HA3	55:DX:82:GLN:NE2	2.34	0.43
34:D8:56:GLU:C	34:D8:58:ILE:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:590:A:OP1	41:DF:95:ARG:NH1	2.52	0.43
36:BA:2787:C:C2	40:BE:61:ARG:HD3	2.54	0.43
31:D5:33:CYS:HB3	31:D5:38:ALA:O	2.19	0.43
46:DO:104:ARG:NH2	51:DT:33:LYS:HE3	2.33	0.43
42:BG:42:GLY:O	42:BG:88:ILE:HG23	2.18	0.43
42:BG:87:PRO:O	42:BG:88:ILE:HD12	2.18	0.43
36:BA:1541:G:H5'	36:BA:1542:A:OP1	2.18	0.43
55:DX:26:TYR:CD1	55:DX:26:TYR:N	2.85	0.43
22:AV:16:U:O2'	22:AV:60:U:O3'	2.37	0.43
25:CY:13:ARG:HH21	25:CY:282:SER:HB2	1.83	0.43
42:BG:117:PHE:CE1	42:BG:119:GLY:HA2	2.54	0.43
36:BA:709:U:O2'	36:BA:710:G:H5'	2.18	0.43
41:DF:123:LEU:HD12	41:DF:192:LEU:HD22	2.01	0.43
54:DW:36:LEU:HD12	54:DW:48:ALA:HA	2.01	0.43
2:AB:43:ASP:OD2	2:AB:46:LYS:HE3	2.19	0.43
35:D9:5:ALA:HB3	36:DA:2465:C:O3'	2.18	0.43
36:DA:705:A:C2	36:DA:727:A:H1'	2.54	0.43
45:DN:34:LEU:HD12	45:DN:119:ARG:HB2	2.00	0.43
1:AA:720:C:O5'	1:AA:720:C:H6	2.02	0.43
37:DB:90:A:H5'	37:DB:91:C:OP2	2.19	0.43
12:AL:86:ARG:NH2	12:AL:99:HIS:CG	2.87	0.43
50:DS:77:ALA:O	50:DS:78:LEU:C	2.57	0.43
27:D1:51:VAL:HG13	27:D1:58:ILE:HG22	2.01	0.43
49:DR:41:ALA:C	49:DR:43:GLU:N	2.71	0.43
50:DS:33:LYS:HG2	50:DS:34:HIS:CD2	2.53	0.43
40:BE:93:VAL:HG12	40:BE:175:VAL:HG21	2.00	0.43
1:AA:476:G:H2'	1:AA:477:A:C8	2.50	0.43
1:CA:489:C:H2'	1:CA:490:G:H8	1.83	0.43
1:CA:301:G:H2'	1:CA:302:G:C8	2.47	0.43
9:CI:99:LEU:HB2	9:CI:101:PHE:HD2	1.84	0.43
1:AA:1008:C:H2'	1:AA:1009:G:C8	2.51	0.43
1:CA:965:A:C2	1:CA:969:A:C2	3.07	0.43
1:CA:179:A:H2'	1:CA:180:U:H6	1.81	0.43
47:DP:71:VAL:C	47:DP:73:GLY:N	2.71	0.43
48:BQ:75:THR:HG21	48:BQ:87:LYS:HG2	2.01	0.43
49:DR:53:HIS:C	49:DR:53:HIS:ND1	2.72	0.43
25:AY:228:MET:HE2	25:AY:229:LEU:HG	1.99	0.43
27:B1:19:GLN:O	27:B1:35:THR:N	2.44	0.43
36:DA:1036:G:OP2	43:DH:59:ARG:NH1	2.51	0.43
37:DB:21:G:O2'	37:DB:22:U:P	2.76	0.43
5:CE:34:VAL:O	5:CE:34:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:55:ARG:HG3	28:B2:55:ARG:HH11	1.84	0.43
25:AY:544:LYS:O	25:AY:548:GLU:HB2	2.19	0.43
57:DZ:154:ASP:N	57:DZ:154:ASP:OD1	2.49	0.43
1:AA:35:G:C6	1:AA:36:C:N4	2.87	0.43
53:DV:13:ARG:HH11	53:DV:13:ARG:CG	2.31	0.43
10:AJ:20:ALA:C	10:AJ:22:LYS:N	2.72	0.43
36:BA:2202:C:H42	36:BA:2221:G:H1	1.66	0.43
36:DA:2513:G:H2'	36:DA:2514:U:C6	2.53	0.43
36:BA:567:A:N1	36:BA:571:A:H8	2.16	0.43
44:BJ:54:UNK:O	44:BJ:56:UNK:N	2.52	0.43
4:CD:37:PRO:O	4:CD:38:TYR:HB3	2.19	0.43
36:BA:1654:A:OP1	49:BR:3:HIS:HB2	2.18	0.43
36:BA:2750:A:H2'	36:BA:2752:C:H41	1.83	0.43
6:CF:16:GLN:H	6:CF:16:GLN:CD	2.22	0.43
39:DD:96:HIS:CE1	39:DD:102:LYS:NZ	2.87	0.43
38:DC:11:LEU:O	38:DC:13:GLU:N	2.52	0.43
8:CH:56:LYS:HA	8:CH:57:PRO:HD2	1.75	0.43
25:CY:443:HIS:HB2	25:CY:448:GLN:O	2.19	0.43
57:BZ:131:ARG:NH1	57:BZ:131:ARG:HG2	2.34	0.43
44:DJ:77:UNK:O	44:DJ:78:UNK:C	2.66	0.43
7:CG:41:ARG:HG2	7:CG:41:ARG:HH11	1.83	0.43
36:DA:2079:U:H2'	36:DA:2080:G:C8	2.54	0.43
36:BA:2545:G:N3	36:BA:2565:A:H2	2.16	0.43
55:DX:31:HIS:O	55:DX:32:PRO:C	2.57	0.43
36:DA:2450:A:O2'	36:DA:2451:A:H5'	2.19	0.43
16:CP:55:ARG:O	16:CP:58:TYR:N	2.52	0.43
36:DA:262:A:H2'	36:DA:263:C:O4'	2.19	0.43
36:BA:2693:A:H2'	36:BA:2694:G:H8	1.83	0.43
39:BD:4:LYS:NZ	39:BD:20:ASP:HA	2.34	0.43
1:AA:779:C:O2'	1:AA:780:A:H5'	2.19	0.43
1:CA:921:U:O2'	5:CE:18:ARG:HB2	2.19	0.43
39:DD:245:PRO:O	39:DD:246:PRO:C	2.57	0.43
39:DD:141:VAL:HG23	39:DD:141:VAL:O	2.19	0.43
26:D0:55:ARG:HE	26:D0:55:ARG:HB3	1.39	0.43
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.18	0.43
4:AD:137:SER:O	4:AD:138:TYR:C	2.57	0.43
36:DA:1593:G:H3'	36:DA:1594:G:H8	1.84	0.43
42:DG:103:LEU:HA	42:DG:106:LEU:HB3	2.01	0.43
57:DZ:16:SER:OG	57:DZ:17:ALA:N	2.52	0.43
25:AY:171:GLU:CG	25:AY:172:ASP:N	2.81	0.43
25:AY:616:TYR:CE1	25:AY:666:ARG:HD3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:613:PRO:HD3	25:AY:666:ARG:O	2.19	0.43
25:CY:112:GLN:HG3	25:CY:115:GLU:CB	2.45	0.43
36:BA:2134:A:N9	36:BA:2158:A:C2	2.87	0.43
56:DY:77:PRO:O	56:DY:78:ALA:CB	2.66	0.43
45:BN:1:MET:C	45:BN:2:LYS:HD2	2.38	0.43
52:BU:83:LEU:N	52:BU:83:LEU:CD1	2.81	0.43
53:BV:52:VAL:O	53:BV:52:VAL:HG13	2.18	0.43
57:BZ:56:VAL:HG11	57:BZ:68:PRO:HB2	2.01	0.43
36:DA:946:G:H2'	36:DA:947:G:C8	2.53	0.43
30:B4:9:LEU:CD1	30:B4:10:VAL:H	2.31	0.43
56:BY:13:VAL:CG2	56:BY:73:ARG:O	2.67	0.43
56:BY:74:PRO:O	56:BY:75:ILE:HB	2.19	0.43
26:B0:17:GLN:HB2	36:BA:2261:C:OP2	2.19	0.43
3:CC:32:LEU:HD22	3:CC:59:ARG:NH1	2.34	0.43
36:DA:2721:A:H2'	36:DA:2722:G:O4'	2.19	0.43
47:BP:115:LEU:CD2	47:BP:115:LEU:N	2.80	0.43
47:BP:131:SER:OG	47:BP:134:ALA:HB3	2.19	0.43
45:BN:15:LEU:O	45:BN:136:GLU:HA	2.19	0.43
13:AM:15:VAL:HG11	13:AM:48:LEU:HD11	2.01	0.43
9:CI:64:THR:HG22	9:CI:64:THR:O	2.18	0.43
5:AE:144:THR:C	5:AE:146:ALA:N	2.70	0.43
51:DT:56:GLY:O	51:DT:59:THR:HG23	2.18	0.43
1:CA:1030:C:N4	1:CA:1032:G:C2	2.87	0.43
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.34	0.43
1:CA:1227:A:O2'	13:CM:117:VAL:HG21	2.17	0.43
45:DN:55:VAL:CG2	45:DN:127:ASP:N	2.82	0.43
36:BA:519:U:H5''	54:BW:25:ARG:NH2	2.33	0.43
2:AB:119:GLU:O	2:AB:121:LEU:N	2.50	0.43
1:AA:1404:C:H5'	1:AA:1405:G:P	2.58	0.43
40:BE:9:VAL:HG13	40:BE:25:VAL:O	2.19	0.43
36:BA:1796:U:P	39:BD:276:LYS:HE3	2.59	0.43
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.83	0.43
12:AL:90:VAL:C	12:AL:92:ASP:N	2.70	0.43
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.39	0.43
39:BD:80:ALA:O	39:BD:81:ALA:HB2	2.18	0.43
36:DA:863:A:O2'	36:DA:864:G:H5'	2.18	0.43
20:CT:90:GLN:CA	20:CT:93:GLU:OE2	2.65	0.43
43:BH:54:ARG:NH1	43:BH:54:ARG:HG2	2.33	0.43
41:BF:123:LEU:HD12	41:BF:124:LEU:N	2.33	0.43
36:DA:2444:G:H2'	36:DA:2445:G:O4'	2.19	0.43
48:BQ:53:ALA:HA	48:BQ:56:ARG:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:261:LYS:HZ1	39:BD:263:ARG:NH2	2.17	0.43
48:BQ:130:LYS:HZ2	57:BZ:80:ARG:NH1	2.17	0.43
36:DA:729:G:H2'	36:DA:1775:U:O2	2.19	0.43
25:CY:133:ILE:CD1	25:CY:272:LEU:HD11	2.49	0.43
54:DW:29:LEU:HD12	54:DW:29:LEU:O	2.19	0.43
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.32	0.43
38:BC:184:GLU:O	38:BC:187:ALA:HB3	2.19	0.43
36:DA:903:C:O2'	36:DA:904:C:H5''	2.18	0.43
26:D0:3:HIS:CD2	36:DA:2602:A:H2	2.37	0.43
33:D7:32:LYS:HE2	36:DA:180:G:P	2.58	0.43
1:AA:1457:G:O5'	1:AA:1457:G:H8	2.01	0.43
43:BH:141:VAL:O	43:BH:143:GLN:N	2.52	0.43
1:CA:325:A:N6	1:CA:326:G:N1	2.66	0.43
36:BA:216:A:H2'	36:BA:217:G:O4'	2.19	0.43
56:BY:26:LYS:HG2	56:BY:27:VAL:H	1.83	0.43
43:BH:89:ILE:HG13	43:BH:129:THR:O	2.19	0.43
43:BH:92:ILE:O	43:BH:94:TYR:N	2.45	0.43
1:AA:501:C:OP1	12:AL:117:ARG:NH2	2.48	0.43
50:BS:20:ARG:HH11	50:BS:20:ARG:HG2	1.84	0.43
53:BV:35:LEU:N	53:BV:35:LEU:HD22	2.34	0.43
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.43
27:B1:71:TYR:HA	27:B1:74:VAL:CG2	2.46	0.43
25:CY:34:TYR:CD2	25:CY:35:TYR:HE1	2.37	0.43
47:DP:64:LYS:O	47:DP:64:LYS:HD3	2.18	0.43
43:DH:38:SER:HA	43:DH:39:PRO:HD3	1.83	0.43
39:BD:227:ASN:HB3	39:BD:228:PRO:HD2	2.00	0.43
36:DA:1185:C:H5'	36:DA:1186:G:OP1	2.18	0.43
48:BQ:75:THR:HG22	48:BQ:76:LYS:H	1.81	0.43
57:BZ:98:MET:HE2	57:BZ:99:TYR:H	1.84	0.43
39:DD:209:ALA:C	39:DD:210:GLY:O	2.55	0.43
38:DC:60:ARG:HG2	38:DC:61:GLY:H	1.83	0.43
23:AW:54:5MU:H2'	23:AW:55:U:O4'	2.19	0.43
22:CV:42:C:C2'	22:CV:42:C:O2	2.67	0.43
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.51	0.43
1:AA:8:A:N6	4:AD:205:GLU:O	2.52	0.43
20:CT:36:LEU:HD12	20:CT:59:ALA:CB	2.48	0.43
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.48	0.43
27:D1:52:ARG:O	27:D1:56:GLN:O	2.37	0.43
7:CG:111:ARG:HD2	7:CG:123:GLU:HB2	2.01	0.43
22:CV:30:G:C2'	22:CV:31:A:H5'	2.48	0.43
23:CW:44:A:C6	23:CW:45:G:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1655:A:H4'	40:BE:115:GLY:N	2.33	0.43
16:CP:60:LEU:HA	16:CP:60:LEU:HD23	1.92	0.43
21:AU:6:ARG:NH2	21:AU:15:ARG:HH21	2.17	0.43
36:DA:2771:C:H2'	36:DA:2772:C:C6	2.53	0.43
36:BA:271(U):G:O2'	36:BA:271(V):G:H5'	2.18	0.43
36:DA:2639:A:H2'	36:DA:2640:G:O4'	2.19	0.43
36:BA:205:G:O2'	36:BA:206:U:P	2.77	0.43
4:AD:86:LYS:HA	4:AD:86:LYS:HD3	1.87	0.43
1:CA:591:U:O2'	1:CA:592:G:H5'	2.19	0.43
52:DU:5:LYS:HB2	52:DU:5:LYS:HE3	1.84	0.43
36:DA:924:C:H5''	36:DA:924:C:H6	1.83	0.43
36:DA:2288:A:C2	36:DA:2325:G:N7	2.87	0.43
41:DF:139:PHE:HB2	41:DF:166:ALA:HB1	2.00	0.43
38:DC:109:MET:O	38:DC:111:PHE:N	2.49	0.43
42:DG:63:ILE:CG2	42:DG:143:GLU:HB2	2.48	0.43
55:BX:14:SER:H	55:BX:17:ALA:HB3	1.84	0.43
25:CY:330:VAL:O	25:CY:372:GLY:N	2.51	0.43
25:AY:17:ILE:HG22	25:AY:25:LYS:HG2	2.01	0.43
25:AY:619:ASP:HB3	43:BH:175:LYS:NZ	2.34	0.43
33:B7:19:ARG:HH11	33:B7:19:ARG:HG2	1.84	0.43
36:DA:1107:G:H2'	36:DA:1108:U:C6	2.54	0.43
36:DA:948:G:OP1	36:DA:962:G:OP1	2.36	0.43
3:AC:52:LEU:HD12	3:AC:55:VAL:CG2	2.49	0.43
3:CC:47:LEU:CD1	3:CC:76:VAL:HG12	2.47	0.43
50:DS:29:PHE:C	50:DS:29:PHE:CD1	2.90	0.43
32:D6:11:LEU:HD23	32:D6:51:GLU:CG	2.40	0.43
56:DY:22:GLY:O	56:DY:23:ARG:HG2	2.19	0.43
25:CY:238:THR:C	25:CY:240:GLU:H	2.22	0.43
32:D6:16:CYS:C	32:D6:18:ARG:N	2.68	0.43
25:CY:632:LEU:HG	25:CY:645:ALA:CA	2.34	0.43
25:CY:629:GLY:HA3	25:CY:647:VAL:CG1	2.49	0.43
25:AY:211:GLU:HG3	25:AY:212:TYR:N	2.34	0.43
36:BA:948:G:O2'	36:BA:949:C:H5'	2.19	0.43
25:AY:424:LEU:HA	25:AY:427:ALA:HB3	2.01	0.43
27:B1:76:ARG:HH12	27:B1:95:LEU:CD2	2.28	0.43
39:DD:62:TYR:CE2	39:DD:64:ILE:HA	2.54	0.43
43:DH:152:ARG:O	43:DH:153:LYS:C	2.57	0.43
3:AC:34:LEU:CD2	3:AC:38:ARG:HD2	2.38	0.43
45:BN:99:LEU:HD13	45:BN:99:LEU:C	2.40	0.43
36:BA:814:C:O2'	36:BA:815:C:H5'	2.19	0.43
31:D5:34:PRO:HG3	36:DA:2885:C:O2'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:26:ASN:N	20:CT:26:ASN:ND2	2.66	0.43
39:BD:25:THR:O	39:BD:26:LYS:C	2.55	0.43
23:AW:28:C:N4	23:AW:42:G:H1	2.17	0.43
40:BE:45:THR:O	40:BE:46:ALA:CB	2.66	0.43
5:AE:150:ARG:HB2	5:AE:150:ARG:CZ	2.49	0.43
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.84	0.43
9:CI:80:GLY:O	9:CI:84:ALA:N	2.52	0.43
46:DO:104:ARG:NH1	46:DO:104:ARG:HB2	2.34	0.43
36:BA:2312:U:H5''	42:BG:72:ARG:O	2.19	0.43
36:DA:2712:U:O2	36:DA:2712:U:O4'	2.36	0.43
1:AA:423:G:C2'	1:AA:424:G:H5'	2.48	0.43
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.86	0.43
2:CB:11:LEU:O	2:CB:12:GLU:O	2.36	0.43
22:AV:16:U:HO2'	22:AV:61:C:P	2.42	0.43
51:BT:6:LEU:O	51:BT:7:ILE:C	2.57	0.43
12:CL:90:VAL:C	12:CL:92:ASP:N	2.71	0.43
57:DZ:63:ASP:O	57:DZ:65:GLN:N	2.52	0.43
1:CA:1191:A:P	3:CC:3:ASN:ND2	2.91	0.43
2:AB:11:LEU:HB3	2:AB:213:LEU:HD11	2.01	0.43
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.84	0.43
4:CD:25:ARG:NH1	4:CD:30:LYS:HD2	2.34	0.43
36:BA:864:G:N2	36:BA:913:U:O2	2.52	0.43
47:DP:75:ILE:N	47:DP:75:ILE:CD1	2.82	0.43
4:AD:25:ARG:NH1	4:AD:30:LYS:HD2	2.34	0.43
36:BA:740:U:H5''	36:BA:1784:A:H3'	2.00	0.43
54:DW:51:LEU:C	54:DW:51:LEU:HD13	2.40	0.43
36:DA:1313:U:C2	36:DA:1610:A:H2	2.37	0.43
36:DA:602:G:N2	36:DA:654(V):A:N7	2.67	0.43
36:BA:1331:A:C2'	36:BA:1332:G:H5''	2.49	0.43
20:CT:45:GLN:CB	20:CT:91:LEU:HD22	2.48	0.43
36:BA:2182:G:H2'	36:BA:2183:C:C6	2.53	0.43
19:AS:31:ILE:HG21	19:AS:49:ILE:HG12	2.01	0.43
15:AO:11:VAL:O	15:AO:14:GLU:CB	2.64	0.43
36:BA:2729:G:H2'	36:BA:2730:C:H6	1.83	0.43
11:CK:20:TYR:CD1	11:CK:83:ILE:HB	2.54	0.43
40:BE:24:THR:HG23	40:BE:184:VAL:CG2	2.47	0.43
36:DA:176:G:HO2'	36:DA:177:G:H5'	1.82	0.43
51:BT:62:THR:HG22	51:BT:75:ILE:HG23	2.00	0.43
1:CA:246:A:O2'	17:CQ:99:SER:HA	2.19	0.43
31:D5:43:HIS:HD2	36:DA:2815:C:O2'	2.02	0.43
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:43:HIS:HD2	36:BA:2815:C:O2'	2.02	0.43
4:CD:179:GLU:C	4:CD:181:MET:H	2.22	0.43
36:BA:991:C:C6	36:BA:991:C:H5'	2.45	0.43
36:DA:2378:A:C2	50:DS:19:LYS:HD3	2.54	0.43
49:DR:12:ARG:HD3	49:DR:16:HIS:CD2	2.54	0.43
36:BA:1131:G:C2	36:BA:1132:A:C5	3.07	0.43
45:BN:73:THR:HG23	45:BN:82:LEU:HD11	2.01	0.43
41:DF:199:TRP:CZ3	41:DF:203:GLN:HG2	2.54	0.43
3:AC:25:GLY:O	3:AC:27:LYS:N	2.52	0.43
57:BZ:111:VAL:O	57:BZ:112:ARG:CB	2.66	0.43
5:CE:7:GLU:HG2	5:CE:112:LEU:CD2	2.49	0.43
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	2.00	0.43
7:CG:22:LEU:HD22	7:CG:62:PHE:CE2	2.54	0.43
53:DV:2:PHE:O	53:DV:14:VAL:O	2.37	0.43
53:BV:13:ARG:HH11	53:BV:13:ARG:CG	2.32	0.43
38:BC:60:ARG:HG3	38:BC:165:ARG:CG	2.48	0.43
45:BN:96:GLU:H	45:BN:96:GLU:CD	2.22	0.43
36:BA:36:G:H2'	36:BA:37:C:H6	1.83	0.43
38:BC:197:LEU:O	38:BC:200:HIS:N	2.43	0.43
28:D2:40:SER:C	28:D2:42:GLY:N	2.72	0.43
36:BA:1074:G:H2'	36:BA:1075:C:C6	2.53	0.43
42:DG:14:GLU:O	42:DG:18:GLU:CB	2.67	0.43
1:AA:1133:G:C1'	1:AA:1142:G:H22	2.32	0.43
7:CG:92:SER:O	7:CG:93:PRO:C	2.55	0.43
36:DA:292:C:H2'	36:DA:293:U:C6	2.54	0.43
1:CA:1058:G:C6	1:CA:1059:C:C4	3.06	0.43
36:BA:1838:C:O2'	36:BA:1839:G:P	2.77	0.43
1:CA:96:U:O2'	1:CA:97:G:H8	2.02	0.43
48:DQ:32:TYR:CE2	48:DQ:111:GLU:HG3	2.54	0.43
36:DA:436:C:H2'	36:DA:437:G:H8	1.84	0.43
8:AH:46:LYS:HE3	8:AH:64:LYS:HG3	2.01	0.43
7:CG:66:VAL:HG21	7:CG:101:LEU:HD23	2.01	0.43
6:AF:61:LEU:O	6:AF:62:TRP:HB2	2.19	0.43
36:BA:2771:C:H2'	36:BA:2772:C:H6	1.84	0.43
35:D9:19:ARG:O	35:D9:20:HIS:HB2	2.19	0.43
1:AA:125:U:H2'	1:AA:126:G:C8	2.54	0.43
6:AF:51:PRO:HA	6:AF:55:ASP:O	2.18	0.43
36:DA:737:C:C2'	36:DA:738:G:H5'	2.48	0.43
1:CA:946:A:H5'	1:CA:947:G:OP2	2.19	0.43
10:CJ:99:LYS:HA	10:CJ:99:LYS:HD3	1.80	0.43
24:CX:18:C:H1'	25:CY:503:GLY:HA3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1501:C:OP2	1:AA:1504:G:H2'	2.19	0.42
30:D4:9:LEU:CD1	30:D4:10:VAL:H	2.32	0.42
42:DG:131:TYR:HB3	42:DG:159:VAL:HG13	2.01	0.42
25:CY:319:ASP:OD2	25:CY:322:VAL:HG22	2.19	0.42
25:CY:90:PHE:CE2	59:CY:701:FUA:C11	3.02	0.42
25:CY:84:THR:CG2	59:CY:701:FUA:H152	2.48	0.42
25:AY:73:PHE:CE1	25:AY:78:ARG:HB2	2.54	0.42
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.49	0.42
1:AA:1316:G:H4'	14:AN:18:VAL:CG1	2.48	0.42
36:DA:2134:A:N9	36:DA:2158:A:C2	2.87	0.42
45:BN:43:THR:HB	45:BN:46:VAL:HG11	2.01	0.42
50:BS:29:PHE:CD1	50:BS:29:PHE:C	2.92	0.42
50:DS:89:ARG:HG3	50:DS:92:TYR:CB	2.49	0.42
32:B6:10:LEU:HD22	32:B6:10:LEU:H	1.80	0.42
32:B6:8:LYS:NZ	36:BA:2285:C:C5	2.66	0.42
13:AM:68:GLY:N	13:AM:71:ARG:HB3	2.33	0.42
36:DA:143:G:H2'	36:DA:143(A):C:H6	1.82	0.42
56:BY:12:THR:HG22	56:BY:75:ILE:HG21	2.01	0.42
56:BY:8:LYS:N	56:BY:8:LYS:CD	2.76	0.42
25:AY:610:VAL:HG12	25:AY:659:LEU:HG	2.00	0.42
36:DA:1070:A:C2	36:DA:1097:U:H4'	2.54	0.42
32:B6:15:GLU:HB2	32:B6:49:HIS:NE2	2.34	0.42
45:DN:63:THR:HB	45:DN:64:GLY:H	1.56	0.42
52:DU:40:PHE:HB3	53:DV:75:PHE:CD2	2.54	0.42
36:BA:651:G:C2'	36:BA:652:C:H5'	2.48	0.42
51:BT:117:ASP:OD2	51:BT:120:ARG:HG3	2.19	0.42
51:BT:28:VAL:HG21	51:BT:46:GLU:CG	2.49	0.42
51:BT:65:LYS:O	51:BT:72:VAL:N	2.39	0.42
31:B5:2:ALA:HB2	36:BA:2015:A:O4'	2.18	0.42
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.49	0.42
36:BA:2597:G:H5''	39:BD:243:GLY:HA2	2.01	0.42
34:B8:23:VAL:HG12	34:B8:46:ARG:HH11	1.84	0.42
53:BV:28:GLU:HB3	53:BV:29:PRO:HD2	2.01	0.42
36:DA:2807:G:H3'	36:DA:2808:U:C5'	2.36	0.42
40:BE:32:PRO:CA	40:BE:90:THR:HG23	2.49	0.42
36:DA:2197:U:H1'	36:DA:2198:A:C8	2.53	0.42
16:AP:23:ASP:OD1	16:AP:25:ARG:N	2.47	0.42
1:AA:954:G:H21	1:AA:1227:A:H62	1.67	0.42
9:AI:63:ILE:CG2	9:AI:64:THR:N	2.81	0.42
43:DH:44:VAL:C	43:DH:46:GLU:N	2.71	0.42
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:132:VAL:HG22	41:DF:133:ASN:ND2	2.34	0.42
1:AA:141:A:H1'	1:AA:182:U:O2	2.19	0.42
5:CE:102:ALA:O	5:CE:107:ARG:NH1	2.52	0.42
36:BA:1818:U:H5''	39:BD:157:ARG:HB2	2.01	0.42
4:AD:104:VAL:O	4:AD:108:LEU:HB2	2.19	0.42
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.76	0.42
40:DE:87:GLU:O	40:DE:89:ASP:N	2.52	0.42
36:DA:676:A:H1'	36:DA:2443:C:C1'	2.48	0.42
36:DA:9:U:C5	36:DA:2629:A:N6	2.86	0.42
26:B0:14:ARG:CB	26:B0:14:ARG:HH11	2.28	0.42
48:BQ:51:ARG:HH11	48:BQ:51:ARG:HG2	1.83	0.42
48:BQ:52:VAL:HG12	48:BQ:56:ARG:HG3	2.01	0.42
43:DH:141:VAL:O	43:DH:142:GLY:C	2.57	0.42
36:BA:560:C:H4'	52:BU:52:ARG:NH2	2.34	0.42
25:AY:276:VAL:O	25:AY:280:LEU:HB2	2.20	0.42
30:D4:16:CYS:HB3	30:D4:20:ASN:O	2.19	0.42
36:BA:360:G:O2'	36:BA:361:G:H5'	2.19	0.42
36:DA:2729:G:H2'	36:DA:2730:C:C6	2.54	0.42
36:DA:869:G:O2'	36:DA:870:A:H5'	2.18	0.42
48:DQ:59:ARG:HG3	48:DQ:59:ARG:NH1	2.34	0.42
36:DA:903:C:C2'	36:DA:904:C:H5'	2.46	0.42
11:CK:20:TYR:O	11:CK:30:VAL:HA	2.18	0.42
26:D0:20:ARG:NH1	26:D0:20:ARG:CG	2.81	0.42
9:AI:40:LEU:C	9:AI:42:ARG:N	2.72	0.42
36:DA:1328:G:C8	36:DA:1328:G:O5'	2.61	0.42
50:DS:49:VAL:CG1	50:DS:50:SER:N	2.81	0.42
34:D8:26:LYS:HB3	34:D8:44:LYS:HG3	2.01	0.42
2:CB:73:THR:O	2:CB:75:LYS:N	2.51	0.42
4:AD:131:ARG:N	4:AD:131:ARG:HD3	2.29	0.42
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.53	0.42
50:BS:20:ARG:NE	50:BS:20:ARG:CA	2.79	0.42
28:B2:22:GLU:C	28:B2:24:LEU:N	2.70	0.42
1:CA:1296:C:C5'	1:CA:1297:C:OP2	2.62	0.42
36:DA:569:U:H2'	36:DA:570:G:O4'	2.19	0.42
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.34	0.42
18:AR:68:LYS:O	18:AR:69:THR:C	2.58	0.42
12:CL:8:ASN:HB2	17:CQ:34:LYS:NZ	2.34	0.42
41:BF:5:ALA:HB1	41:BF:125:LEU:HD21	2.01	0.42
40:DE:9:VAL:HG22	40:DE:25:VAL:HB	2.02	0.42
37:DB:60:C:H2'	37:DB:61:G:C8	2.51	0.42
26:B0:23:VAL:HG11	26:B0:69:PHE:CZ	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2275:C:O2	48:BQ:85:LYS:HD3	2.18	0.42
41:DF:101:LEU:HB3	41:DF:106:ARG:HD3	2.00	0.42
11:CK:33:THR:HB	11:CK:38:ASN:O	2.19	0.42
45:DN:51:PHE:N	45:DN:51:PHE:CD1	2.87	0.42
36:DA:325:G:H2'	36:DA:326:G:H8	1.84	0.42
36:BA:1767:C:C2'	36:BA:1768:U:H5'	2.49	0.42
36:BA:514:A:H2'	36:BA:515:A:H8	1.84	0.42
33:D7:12:ARG:HG3	33:D7:12:ARG:NH1	2.34	0.42
6:AF:19:LEU:HD23	6:AF:19:LEU:O	2.19	0.42
36:DA:2358:G:O2'	36:DA:2359:C:H5'	2.19	0.42
36:DA:271(K):U:H3'	36:DA:271(L):U:C5'	2.48	0.42
7:CG:91:VAL:HG12	7:CG:92:SER:H	1.84	0.42
14:CN:47:LEU:O	14:CN:48:ALA:C	2.55	0.42
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.84	0.42
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.19	0.42
2:CB:152:PHE:O	2:CB:153:ARG:HB2	2.19	0.42
1:AA:1134:G:O2'	1:AA:1135:U:H5'	2.19	0.42
1:CA:1134:G:O2'	1:CA:1135:U:H5'	2.19	0.42
1:CA:429:U:C1'	1:CA:430:A:H5''	2.49	0.42
36:DA:1531:C:H2'	36:DA:1532:C:H6	1.82	0.42
38:BC:43:GLU:HG3	38:BC:216:THR:HG23	2.01	0.42
38:DC:149:ASN:HD22	38:DC:149:ASN:C	2.21	0.42
1:AA:600:C:H4'	8:AH:128:GLY:O	2.19	0.42
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.99	0.42
6:AF:95:GLU:HA	6:AF:96:PRO:HD3	1.86	0.42
36:DA:999:U:H5''	36:DA:1154:G:O6	2.19	0.42
2:CB:170:GLU:O	2:CB:171:ALA:C	2.57	0.42
26:B0:54:GLY:O	26:B0:55:ARG:C	2.57	0.42
1:AA:1290:G:N3	1:AA:1290:G:H2'	2.34	0.42
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.18	0.42
36:BA:2639:A:H2'	36:BA:2640:G:O4'	2.19	0.42
36:DA:613:G:C2	36:DA:615:G:C5	3.06	0.42
10:AJ:79:ARG:NH1	10:AJ:79:ARG:HG2	2.35	0.42
55:BX:12:VAL:CB	55:BX:17:ALA:HB1	2.21	0.42
36:BA:1859:A:N1	36:BA:1884:A:H1'	2.33	0.42
59:CY:701:FUA:C12	59:CY:701:FUA:C23	2.84	0.42
1:CA:1367:C:N3	1:CA:1368:G:C8	2.87	0.42
25:CY:179:ASP:OD2	25:CY:182:ARG:HD2	2.19	0.42
25:CY:526:VAL:HG11	25:CY:566:THR:HG23	2.01	0.42
25:CY:590:ILE:HA	25:CY:593:ALA:CB	2.49	0.42
2:AB:185:ILE:HA	2:AB:199:TYR:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:186:G:C2	36:BA:211:A:C2	3.06	0.42
55:DX:14:SER:O	55:DX:15:GLU:C	2.58	0.42
50:BS:88:ASP:O	50:BS:89:ARG:HB3	2.19	0.42
30:B4:27:THR:HG23	30:B4:27:THR:O	2.18	0.42
30:B4:7:PRO:HD2	42:BG:65:GLY:O	2.19	0.42
42:BG:91:ARG:HD2	42:BG:92:VAL:CA	2.48	0.42
47:DP:35:HIS:O	47:DP:36:LYS:CB	2.64	0.42
31:B5:46:CYS:SG	31:B5:47:PRO:CD	3.06	0.42
41:BF:9:ILE:HG12	41:BF:14:PRO:HA	2.01	0.42
56:BY:39:VAL:HG12	56:BY:40:GLU:H	1.80	0.42
56:BY:13:VAL:HG23	56:BY:73:ARG:O	2.18	0.42
49:DR:100:LEU:HD11	49:DR:113:LEU:HB2	1.99	0.42
36:BA:2260:C:H2'	36:BA:2261:C:H6	1.84	0.42
36:BA:2580:U:H4'	40:BE:130:GLY:CA	2.50	0.42
25:CY:679:VAL:HG23	25:CY:684:GLN:HB2	2.00	0.42
47:BP:112:LEU:N	47:BP:128:HIS:CD2	2.84	0.42
47:DP:7:ARG:CZ	47:DP:7:ARG:CA	2.93	0.42
57:BZ:37:VAL:O	57:BZ:38:TYR:HB3	2.19	0.42
36:BA:1376:C:H2'	36:BA:1376:C:O2	2.19	0.42
36:BA:2445:G:OP1	41:BF:74:ARG:NH2	2.47	0.42
28:D2:25:VAL:HG22	28:D2:60:LEU:HD13	2.01	0.42
34:B8:21:LYS:HD3	34:B8:48:PHE:CE1	2.55	0.42
45:DN:99:LEU:C	45:DN:99:LEU:HD13	2.40	0.42
47:BP:23:PRO:CG	47:BP:33:ARG:HE	2.32	0.42
47:BP:41:ARG:NH1	47:BP:41:ARG:CB	2.81	0.42
9:CI:63:ILE:CG2	9:CI:64:THR:N	2.83	0.42
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.32	0.42
13:CM:120:LYS:C	13:CM:121:LYS:HZ2	2.21	0.42
36:BA:2395:C:C2	36:BA:2396:G:C8	3.07	0.42
43:BH:44:VAL:C	43:BH:46:GLU:N	2.72	0.42
1:CA:999:C:H3'	1:CA:999:C:H6	1.85	0.42
1:AA:999:C:H6	1:AA:999:C:H3'	1.83	0.42
36:DA:1479:G:N2	36:DA:1513:C:H1'	2.34	0.42
42:BG:109:VAL:O	42:BG:112:PRO:HD2	2.19	0.42
46:BO:35:VAL:HG23	46:BO:65:THR:HG23	2.02	0.42
37:BB:82:G:C2'	37:BB:83:G:H5'	2.48	0.42
5:CE:81:GLU:HA	5:CE:89:ILE:O	2.19	0.42
57:DZ:109:ALA:HB3	57:DZ:144:LEU:O	2.19	0.42
41:BF:123:LEU:HD12	41:BF:192:LEU:HD22	2.00	0.42
41:DF:68:LYS:O	41:DF:70:THR:N	2.48	0.42
48:BQ:21:THR:CG2	48:BQ:101:ARG:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:769:G:H4'	1:AA:1513:A:H4'	2.00	0.42
36:BA:739:G:HO2'	36:BA:740:U:H5	1.66	0.42
39:DD:261:LYS:NZ	39:DD:263:ARG:HH12	2.17	0.42
13:AM:54:VAL:O	13:AM:56:LEU:N	2.51	0.42
4:CD:129:ASN:HD21	4:CD:144:ASP:HB3	1.84	0.42
3:AC:174:PRO:O	3:AC:175:LEU:C	2.57	0.42
36:DA:727:A:H5'	36:DA:728:G:OP2	2.18	0.42
29:D3:4:LEU:HD11	29:D3:39:ASP:OD1	2.20	0.42
5:AE:64:ARG:HH11	5:AE:64:ARG:CG	2.22	0.42
37:DB:92:C:H2'	37:DB:93:G:C8	2.55	0.42
25:CY:65:ILE:O	25:CY:67:ALA:N	2.44	0.42
1:CA:1329:A:OP1	13:CM:29:ARG:HG3	2.19	0.42
1:AA:349:A:H2'	1:AA:350:G:C5'	2.45	0.42
43:DH:146:ALA:HA	43:DH:149:ARG:HB3	2.01	0.42
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.87	0.42
36:BA:1668:A:C5	36:BA:1674:G:C5	3.07	0.42
1:AA:109:A:C6	1:AA:326:G:C5	3.07	0.42
36:BA:82:G:C5'	36:BA:296:C:H5'	2.47	0.42
4:CD:203:VAL:O	4:CD:206:PHE:HB3	2.19	0.42
31:B5:43:HIS:CD2	36:BA:2815:C:O2'	2.72	0.42
1:CA:663:A:C2'	1:CA:664:G:H5'	2.49	0.42
36:BA:1843:C:H5'	39:BD:253:GLN:NE2	2.34	0.42
36:BA:271(C):C:H2'	36:BA:271(D):G:H8	1.84	0.42
36:DA:694:U:H2'	36:DA:695:G:O5'	2.19	0.42
36:DA:1367:A:C2'	36:DA:1368:G:H5'	2.47	0.42
41:BF:206:ILE:HG22	41:BF:207:GLY:H	1.82	0.42
39:DD:276:LYS:HD3	39:DD:276:LYS:C	2.40	0.42
49:DR:55:ALA:HB2	49:DR:79:LEU:CD1	2.48	0.42
36:DA:1059:G:H2'	36:DA:1060:U:C6	2.54	0.42
40:DE:201:THR:OG1	40:DE:202:LYS:N	2.52	0.42
36:DA:1930:G:HO2'	36:DA:1931:U:P	2.42	0.42
39:DD:210:GLY:C	39:DD:212:SER:N	2.69	0.42
2:CB:102:LEU:HD23	2:CB:182:ILE:HD12	2.01	0.42
5:CE:71:LEU:HD11	5:CE:114:GLY:CA	2.48	0.42
1:AA:34:C:O2'	1:AA:35:G:H5'	2.19	0.42
1:AA:781:A:C2'	1:AA:782:A:H5'	2.49	0.42
1:AA:1058:G:C6	1:AA:1059:C:C4	3.07	0.42
36:BA:2557:G:H2'	36:BA:2558:C:C6	2.54	0.42
33:D7:34:ARG:NH1	33:D7:39:ARG:HG3	2.35	0.42
36:DA:2704:C:C2'	36:DA:2705:A:H5'	2.49	0.42
6:CF:80:ARG:HG2	6:CF:88:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:197:LEU:O	38:BC:198:GLU:C	2.57	0.42
25:CY:614:GLU:CG	25:CY:641:GLN:NE2	2.81	0.42
36:BA:338:G:O2'	36:BA:339:U:H5'	2.19	0.42
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE1	2.54	0.42
36:DA:1396:U:O2	36:DA:1396:U:C2'	2.68	0.42
36:BA:2154:G:C2	36:BA:2155:G:C4	3.07	0.42
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.01	0.42
36:DA:1247:A:O2'	36:DA:1248:G:H5'	2.19	0.42
1:AA:78:G:H22	1:AA:91:C:N4	2.17	0.42
36:DA:2447:G:C4	36:DA:2501:C:C4	3.07	0.42
27:B1:14:VAL:HG21	36:BA:188:G:H5'	2.00	0.42
44:BJ:69:UNK:O	44:BJ:70:UNK:C	2.67	0.42
10:AJ:28:ARG:NH1	10:AJ:28:ARG:HG2	2.34	0.42
13:CM:88:ARG:HG2	13:CM:88:ARG:HH11	1.85	0.42
36:BA:645:C:H3'	36:BA:645:C:O2	2.19	0.42
56:BY:98:VAL:O	56:BY:98:VAL:HG12	2.19	0.42
29:B3:50:VAL:O	29:B3:51:ALA:C	2.57	0.42
36:BA:694:U:H2'	36:BA:695:G:O5'	2.18	0.42
42:DG:98:ARG:NH1	42:DG:98:ARG:HG2	2.34	0.42
25:CY:119:GLU:C	25:CY:121:VAL:N	2.73	0.42
25:CY:411:VAL:HG23	25:CY:459:LEU:CD2	2.48	0.42
25:AY:109:ASP:OD1	25:AY:138:LYS:HG3	2.19	0.42
25:AY:130:VAL:O	25:AY:132:ARG:CZ	2.68	0.42
25:AY:90:PHE:CB	25:AY:454:MET:HB2	2.49	0.42
41:DF:160:ASN:HD21	41:DF:162:LEU:HB2	1.83	0.42
1:CA:1348:U:O3'	9:CI:120:ARG:HG3	2.18	0.42
9:AI:119:ALA:O	9:AI:120:ARG:CG	2.58	0.42
53:BV:47:VAL:HB	53:BV:50:PRO:O	2.19	0.42
36:DA:948:G:O2'	36:DA:949:C:H5'	2.18	0.42
30:B4:27:THR:O	30:B4:28:LYS:CB	2.67	0.42
36:BA:1156:A:C2'	36:BA:1157:G:OP1	2.67	0.42
32:B6:54:ILE:HD11	36:BA:2419:U:O2'	2.20	0.42
32:B6:7:ILE:CG2	32:B6:7:ILE:O	2.67	0.42
41:BF:198:ALA:HA	41:BF:201:VAL:HG12	2.01	0.42
36:BA:1142(A):A:C3'	36:BA:1143:A:H5''	2.49	0.42
36:BA:2262:U:O2'	36:BA:2263:C:C5'	2.67	0.42
56:DY:44:ILE:O	56:DY:62:GLU:OE1	2.38	0.42
45:DN:26:LEU:C	45:DN:28:THR:N	2.72	0.42
25:CY:646:PHE:HE1	25:CY:674:ASP:OD2	2.02	0.42
36:BA:2305:A:C4	42:BG:154:GLY:HA3	2.54	0.42
41:DF:31:HIS:O	41:DF:34:TRP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:50:GLU:HB2	20:CT:100:ILE:CG2	2.49	0.42
28:B2:69:ARG:HH22	36:BA:111:A:C4'	2.27	0.42
34:D8:48:PHE:O	34:D8:49:VAL:CG1	2.63	0.42
51:BT:33:LYS:HE2	51:BT:43:GLN:CD	2.39	0.42
51:BT:35:LYS:NZ	51:BT:41:ARG:HD2	2.31	0.42
28:D2:69:ARG:NH2	36:DA:111:A:H5''	2.31	0.42
40:DE:76:ARG:O	40:DE:77:ILE:O	2.37	0.42
40:BE:30:PRO:O	40:BE:32:PRO:HD3	2.19	0.42
40:BE:47:VAL:HG23	40:BE:84:PHE:O	2.19	0.42
40:BE:68:ALA:C	40:BE:70:ALA:H	2.22	0.42
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.34	0.42
36:DA:2223:G:O2'	36:DA:2224:G:H5'	2.19	0.42
36:DA:2531:A:OP2	43:DH:176:ALA:HB3	2.19	0.42
9:AI:4:TYR:HA	9:AI:88:TYR:CD1	2.54	0.42
41:BF:133:ASN:N	41:BF:133:ASN:ND2	2.67	0.42
18:CR:58:LEU:CD1	18:CR:58:LEU:H	2.31	0.42
5:AE:11:ILE:HG22	5:AE:12:LEU:H	1.82	0.42
41:DF:133:ASN:N	41:DF:133:ASN:ND2	2.67	0.42
3:CC:179:ARG:H	3:CC:179:ARG:HG3	1.53	0.42
20:CT:11:SER:HA	20:CT:13:LEU:HD11	2.00	0.42
36:BA:1798:U:C4	36:BA:1819:A:C2	3.07	0.42
9:CI:97:LYS:O	9:CI:98:PRO:C	2.58	0.42
23:CW:25:C:O2'	23:CW:26:G:H5'	2.20	0.42
1:AA:1103:C:C4	1:AA:1104:G:N7	2.87	0.42
2:AB:144:ARG:HG3	2:AB:145:LEU:N	2.34	0.42
3:CC:157:ILE:O	3:CC:159:GLY:N	2.52	0.42
36:DA:1288:U:C2	36:DA:1327:C:C2	3.07	0.42
9:AI:93:ARG:O	9:AI:95:LYS:N	2.52	0.42
25:AY:276:VAL:O	25:AY:280:LEU:HD23	2.19	0.42
12:CL:20:LYS:CD	12:CL:20:LYS:N	2.82	0.42
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.87	0.42
36:DA:653:A:H5'	36:DA:654:A:P	2.59	0.42
36:DA:87:C:OP2	36:DA:90:U:O4	2.38	0.42
18:CR:35:ARG:O	18:CR:37:VAL:N	2.48	0.42
7:AG:16:LEU:HD12	9:AI:42:ARG:HA	1.99	0.42
50:BS:40:ILE:CG2	50:BS:41:ASP:N	2.74	0.42
27:D1:51:VAL:HG13	27:D1:58:ILE:CG2	2.49	0.42
1:CA:552:U:H2'	1:CA:553:A:C8	2.53	0.42
37:BB:95:C:O2'	37:BB:96:U:H5'	2.19	0.42
25:CY:346:LYS:CE	25:CY:384:ILE:HG12	2.49	0.42
36:BA:1678:G:C5	36:BA:1679:U:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:501:C:OP1	12:CL:117:ARG:NH2	2.48	0.42
1:AA:1329:A:OP1	13:AM:28:ALA:HB3	2.19	0.42
36:DA:82:G:C5'	36:DA:296:C:H5'	2.47	0.42
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.34	0.42
36:DA:1653:G:O6	49:DR:11:ASN:HB2	2.18	0.42
37:BB:77:U:OP1	57:BZ:19:ARG:NH2	2.48	0.42
36:BA:605:C:C4	36:BA:606:U:C5	3.07	0.42
16:CP:4:ILE:CG1	16:CP:64:ALA:HB1	2.48	0.42
13:CM:54:VAL:O	13:CM:56:LEU:N	2.53	0.42
1:CA:584:G:H2'	1:CA:585:G:C8	2.54	0.42
5:AE:143:ARG:HD3	5:AE:143:ARG:HA	1.87	0.42
1:CA:1313:U:H2'	1:CA:1314:C:C6	2.54	0.42
57:BZ:107:THR:HG23	57:BZ:111:VAL:CB	2.48	0.42
37:BB:40:U:O2'	37:BB:43:C:C5	2.71	0.42
39:DD:17:THR:O	39:DD:211:ARG:NH2	2.52	0.42
1:AA:930:C:C4	1:AA:931:C:C5	3.07	0.42
1:CA:766:A:H2'	1:CA:767:A:H5'	2.02	0.42
53:BV:2:PHE:O	53:BV:14:VAL:O	2.37	0.42
53:DV:67:GLY:O	53:DV:88:ARG:HB3	2.18	0.42
47:DP:32:THR:CG2	47:DP:37:GLY:HA2	2.47	0.42
38:BC:97:GLY:C	38:BC:99:GLU:N	2.73	0.42
1:CA:401:C:H1'	1:CA:622:A:H1'	2.01	0.42
36:DA:74:A:H5''	36:DA:75:G:O4'	2.18	0.42
1:CA:1065:U:C2'	1:CA:1066:C:OP2	2.67	0.42
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.32	0.42
44:DJ:146:UNK:C	44:DJ:148:UNK:N	2.80	0.42
36:BA:332:A:O2'	36:BA:333:G:P	2.77	0.42
36:BA:1308:A:H2'	36:BA:1309:G:O4'	2.20	0.42
1:CA:1134:G:H2'	1:CA:1135:U:H5'	2.01	0.42
1:CA:689:C:P	11:CK:46:GLY:HA3	2.59	0.42
3:CC:28:GLN:O	3:CC:29:TYR:C	2.58	0.42
36:DA:437:G:H2'	36:DA:438:G:H8	1.84	0.42
1:AA:1337:G:H5''	1:AA:1338:G:OP2	2.18	0.42
36:DA:1836:C:C2'	36:DA:1837:C:H5'	2.50	0.42
36:DA:640:C:H2'	36:DA:641:C:C6	2.54	0.42
26:D0:54:GLY:O	26:D0:55:ARG:C	2.57	0.42
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.39	0.42
25:CY:366:VAL:HG23	25:CY:367:GLU:N	2.34	0.42
36:DA:1338:G:N2	36:DA:1339:G:H1'	2.35	0.42
1:AA:1517:G:H1'	36:BA:1919:A:O3'	2.19	0.42
36:DA:271(U):G:O2'	36:DA:271(V):G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:18:TYR:O	55:BX:20:GLY:N	2.52	0.42
1:CA:396:G:OP1	25:CY:349:LYS:NZ	2.52	0.42
3:CC:48:TYR:HE1	3:CC:118:GLN:HE21	1.68	0.42
1:AA:150:C:O5'	1:AA:150:C:H6	2.01	0.42
55:BX:65:ARG:HH11	55:BX:65:ARG:HG2	1.83	0.42
36:BA:2450:A:O2'	36:BA:2451:A:H5'	2.19	0.42
19:AS:20:LEU:HA	19:AS:23:ASN:HB2	2.01	0.42
42:DG:101:ILE:HG22	42:DG:102:PHE:N	2.34	0.42
42:DG:6:ALA:O	42:DG:10:LYS:HB2	2.19	0.42
42:DG:97:ASP:H	42:DG:100:TRP:HD1	1.67	0.42
57:DZ:18:LEU:O	57:DZ:21:ALA:N	2.47	0.42
25:CY:122:TRP:HH2	25:CY:256:THR:OG1	2.03	0.42
25:CY:461:ILE:HD11	59:CY:701:FUA:H21	2.00	0.42
25:AY:115:GLU:HA	25:AY:116:PRO:HD2	1.93	0.42
25:AY:89:ASP:HB2	25:AY:90:PHE:H	1.66	0.42
36:BA:2656:U:H3	36:BA:2665:A:H2	1.68	0.42
25:CY:265:LYS:O	25:CY:266:ASN:C	2.57	0.42
36:DA:2157:G:O2'	36:DA:2158:A:O5'	2.33	0.42
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.85	0.42
50:BS:29:PHE:HD1	50:BS:30:ARG:N	2.18	0.42
47:DP:25:SER:O	47:DP:30:THR:CG2	2.66	0.42
32:B6:54:ILE:O	32:B6:54:ILE:CD1	2.60	0.42
32:B6:6:ARG:C	32:B6:8:LYS:H	2.20	0.42
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.32	0.42
15:AO:21:ASP:OD1	15:AO:24:SER:HB3	2.19	0.42
28:D2:15:LYS:HG3	28:D2:15:LYS:O	2.19	0.42
28:D2:6:VAL:HA	28:D2:9:GLN:OE1	2.19	0.42
56:DY:8:LYS:HE3	56:DY:74:PRO:HD3	2.02	0.42
56:BY:28:LYS:HG2	56:BY:39:VAL:HG22	1.99	0.42
45:DN:1:MET:C	45:DN:2:LYS:HD2	2.39	0.42
52:DU:98:LEU:O	52:DU:106:PHE:HB2	2.19	0.42
45:BN:26:LEU:HA	45:BN:29:LYS:NZ	2.34	0.42
45:BN:60:ILE:HG22	45:BN:61:ARG:N	2.35	0.42
25:CY:610:VAL:HG11	25:CY:655:TYR:OH	2.20	0.42
47:BP:112:LEU:HD13	47:BP:112:LEU:C	2.39	0.42
25:AY:431:LEU:HD22	25:AY:466:LEU:CD1	2.40	0.42
25:AY:465:ARG:HD2	25:AY:469:GLU:HG2	2.01	0.42
27:B1:81:LYS:HE2	36:BA:271(H):G:C4'	2.38	0.42
56:BY:51:VAL:CG1	56:BY:53:PRO:HD2	2.35	0.42
28:D2:46:GLN:O	28:D2:47:ASN:O	2.38	0.42
36:DA:28:A:H1'	36:DA:513:A:C2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:666:G:C5	36:BA:667:U:C5	3.07	0.42
45:DN:128:HIS:HE1	45:DN:134:ARG:HH11	1.67	0.42
49:BR:45:ARG:O	49:BR:46:GLY:C	2.57	0.42
47:BP:16:ARG:NE	47:BP:18:ARG:HB2	2.33	0.42
2:AB:17:PHE:HD1	2:AB:17:PHE:H	1.68	0.42
1:AA:687:A:H62	1:AA:703:G:H1'	1.83	0.42
40:BE:1:MET:O	40:BE:2:LYS:C	2.58	0.42
36:BA:1238:G:O2'	36:BA:1239:G:H5'	2.19	0.42
16:AP:5:ARG:HE	16:AP:22:THR:HG21	1.84	0.42
36:BA:614(B):G:H5''	36:BA:614(C):A:OP1	2.20	0.42
36:DA:709:U:O5'	36:DA:709:U:H6	2.02	0.42
43:DH:121:ILE:HA	43:DH:134:SER:O	2.19	0.42
5:AE:12:LEU:HD13	5:AE:31:LEU:HB3	2.02	0.42
2:AB:12:GLU:HB2	2:AB:13:ALA:H	1.57	0.42
36:BA:2330:G:H2'	36:BA:2331:G:O4'	2.18	0.42
51:DT:1:MET:H1	51:DT:7:ILE:HD11	1.84	0.42
48:DQ:21:THR:CG2	48:DQ:101:ARG:HB2	2.50	0.42
39:BD:153:ALA:C	39:BD:154:LYS:HG3	2.39	0.42
1:CA:186:C:H2'	1:CA:187:C:C6	2.55	0.42
20:CT:82:SER:O	20:CT:86:ARG:CB	2.64	0.42
54:DW:47:VAL:HA	54:DW:50:VAL:CG1	2.49	0.42
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	2.01	0.42
15:CO:33:THR:CG2	15:CO:85:LEU:HD21	2.42	0.42
4:AD:30:LYS:O	4:AD:32:ALA:N	2.53	0.42
36:DA:654(N):G:H2'	36:DA:654(O):G:H5'	2.01	0.42
1:CA:779:C:H1'	11:CK:120:ARG:HD2	2.00	0.42
36:BA:87:C:H5''	36:BA:88:G:H5'	2.01	0.42
57:DZ:23:LYS:CD	57:DZ:38:TYR:HE1	2.33	0.42
26:B0:20:ARG:CG	26:B0:20:ARG:NH1	2.81	0.42
37:BB:88:C:H2'	37:BB:89:G:C8	2.54	0.42
42:BG:133:LEU:HD12	42:BG:133:LEU:O	2.20	0.42
36:BA:1851:U:H2'	36:BA:1852:C:O4'	2.20	0.42
36:DA:2376:A:H2'	36:DA:2377:A:O4'	2.20	0.42
1:CA:741:G:C2'	1:CA:742:G:H5'	2.49	0.42
1:AA:1423:G:C5	1:AA:1424:C:C4	3.07	0.42
16:AP:2:VAL:HG22	16:AP:64:ALA:HA	2.00	0.42
25:CY:406:GLU:HB3	25:CY:407:PRO:CD	2.48	0.42
36:BA:1952:A:C2	46:BO:22:ILE:HG23	2.54	0.42
26:B0:49:LYS:HE3	26:B0:80:HIS:CG	2.54	0.42
36:DA:1173:G:H5'	36:DA:1174:A:O5'	2.19	0.42
42:DG:23:PHE:CD1	42:DG:23:PHE:N	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DN:90:MET:HB3	45:DN:98:VAL:HG22	2.00	0.42
12:CL:104:VAL:HG12	12:CL:105:TYR:CD1	2.54	0.42
9:AI:3:GLN:NE2	9:AI:20:ARG:NH2	2.66	0.42
11:AK:126:ARG:HH11	11:AK:126:ARG:HG2	1.84	0.42
33:B7:36:GLN:C	33:B7:38:GLY:H	2.22	0.42
45:DN:96:GLU:H	45:DN:96:GLU:CD	2.22	0.42
20:AT:36:LEU:HD12	20:AT:59:ALA:CB	2.49	0.42
41:BF:135:LYS:HB3	41:BF:138:GLU:HB2	2.00	0.42
36:BA:1590:U:O2'	36:BA:1591:G:H5'	2.19	0.42
7:CG:92:SER:O	7:CG:96:GLN:HG3	2.19	0.42
38:DC:43:GLU:HG3	38:DC:216:THR:HG23	2.02	0.42
36:DA:552:G:H8	36:DA:552:G:H5'	1.85	0.42
1:CA:106:C:O2	1:CA:379:C:H4'	2.20	0.42
1:CA:1133:G:C1'	1:CA:1142:G:H22	2.32	0.42
14:AN:21:TYR:HE2	14:AN:23:ARG:NH2	2.17	0.42
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	2.01	0.42
45:DN:78:TYR:CD1	45:DN:78:TYR:N	2.88	0.42
36:DA:1838:C:O2'	36:DA:1839:G:P	2.78	0.42
38:DC:149:ASN:ND2	38:DC:149:ASN:C	2.73	0.42
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.55	0.42
1:CA:601:C:H2'	1:CA:602:A:H8	1.85	0.42
46:BO:19:ILE:HD12	46:BO:41:ALA:CB	2.50	0.42
54:DW:12:ILE:HG13	54:DW:42:ARG:NH1	2.35	0.42
1:AA:152:A:N6	1:AA:170:U:C2	2.87	0.42
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.19	0.42
1:AA:373:A:C2	1:AA:482:A:C6	3.06	0.42
25:CY:423:LYS:NZ	25:CY:470:PHE:O	2.47	0.42
36:DA:2003:G:C6	36:DA:2004:G:C5	3.07	0.42
36:DA:1087:G:H5''	36:DA:1088:A:OP2	2.18	0.42
17:CQ:43:LEU:HD12	17:CQ:68:ARG:HB3	2.00	0.42
1:AA:1042:G:C2'	1:AA:1043:C:H5'	2.49	0.42
36:BA:924:C:H6	36:BA:924:C:H5''	1.84	0.42
27:B1:61:ARG:HG2	27:B1:61:ARG:HH11	1.85	0.42
23:CW:34:C:O2	23:CW:34:C:O4'	2.37	0.42
38:DC:121:MET:O	38:DC:122:GLY:C	2.56	0.42
57:DZ:17:ALA:HA	57:DZ:20:ARG:HD3	2.00	0.42
25:AY:25:LYS:HB2	60:AY:702:GDP:O2B	2.19	0.42
25:AY:616:TYR:OH	25:AY:666:ARG:HD3	2.19	0.42
25:AY:138:LYS:HE2	60:AY:702:GDP:C4	2.55	0.42
25:AY:14:ASN:ND2	25:AY:80:ASN:HD22	2.16	0.42
56:BY:96:ILE:CG2	56:BY:99:CYS:HB3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:7:ALA:HB3	57:BZ:61:LEU:HD23	2.01	0.42
36:DA:948:G:H1	36:DA:969:U:H3	1.68	0.42
36:BA:2733:A:H2	40:BE:203:LYS:O	2.02	0.42
36:BA:2292:C:H2'	36:BA:2293:C:H6	1.83	0.42
30:B4:9:LEU:HD13	30:B4:10:VAL:H	1.84	0.42
41:DF:9:ILE:HG12	41:DF:14:PRO:HA	2.00	0.42
47:DP:23:PRO:O	47:DP:29:LYS:O	2.37	0.42
37:DB:38:C:O2	37:DB:48:A:H1'	2.18	0.42
32:D6:5:VAL:HG21	36:DA:2283:C:O3'	2.19	0.42
32:B6:54:ILE:HD13	36:BA:2420:C:C4'	2.49	0.42
41:BF:8:GLN:NE2	41:BF:9:ILE:N	2.67	0.42
36:BA:1015:G:H2'	36:BA:1016:G:C8	2.55	0.42
10:CJ:49:VAL:HG22	10:CJ:50:ILE:N	2.35	0.42
32:D6:15:GLU:HG3	32:D6:47:THR:CG2	2.41	0.42
39:DD:242:ARG:HB2	39:DD:243:GLY:H	1.58	0.42
36:BA:2286:A:H8	36:BA:2287:A:C6	2.38	0.42
36:DA:2579:C:O2'	36:DA:2580:U:H5'	2.19	0.42
36:DA:2262:U:O2'	36:DA:2263:C:C5'	2.68	0.42
31:D5:2:ALA:N	36:DA:2015:A:H1'	2.35	0.42
25:AY:136:ALA:HB3	25:AY:260:LEU:CB	2.50	0.42
36:BA:948:G:OP1	36:BA:962:G:OP1	2.38	0.42
36:BA:1453:U:P	49:BR:77:ARG:HH11	2.42	0.42
51:BT:28:VAL:HG22	51:BT:46:GLU:HG3	2.02	0.42
46:BO:77:ILE:HD11	51:BT:72:VAL:HG11	2.02	0.42
25:AY:427:ALA:O	25:AY:431:LEU:HB2	2.20	0.42
25:AY:414:GLU:O	25:AY:474:ALA:HB1	2.19	0.42
39:DD:30:GLU:OE1	39:DD:63:ARG:HG2	2.19	0.42
36:BA:2103:C:C1'	36:BA:2187:G:H1	2.30	0.42
36:BA:2296:U:C4'	36:BA:2297:C:OP1	2.62	0.42
22:AV:70:G:O2'	22:AV:71:G:H5'	2.19	0.42
10:CJ:4:ILE:N	10:CJ:4:ILE:CD1	2.79	0.42
40:DE:65:GLY:O	40:DE:67:PHE:N	2.52	0.42
36:BA:1479:G:N2	36:BA:1513:C:H1'	2.35	0.42
20:AT:11:SER:HA	20:AT:13:LEU:HD12	2.02	0.42
4:AD:100:ARG:O	4:AD:103:ASN:HB3	2.18	0.42
42:BG:42:GLY:O	42:BG:44:GLY:N	2.52	0.42
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.37	0.42
27:B1:29:GLY:C	27:B1:31:GLY:N	2.72	0.42
1:AA:965:A:C2	1:AA:969:A:C2	3.08	0.42
25:AY:35:TYR:HE2	25:AY:269:VAL:CB	2.28	0.42
40:DE:27:LEU:HD12	40:DE:180:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186:C:H1'	20:AT:81:LYS:HE2	2.00	0.42
13:CM:74:VAL:O	13:CM:78:ILE:HG13	2.20	0.42
45:BN:129:PRO:O	45:BN:130:HIS:CB	2.59	0.42
36:DA:1188:U:C5'	53:DV:79:VAL:CG1	2.98	0.42
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	2.20	0.42
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.55	0.42
39:BD:263:ARG:O	39:BD:264:LYS:C	2.56	0.42
17:AQ:52:LYS:HD3	17:AQ:55:ASP:OD2	2.19	0.42
40:DE:64:LYS:C	40:DE:66:HIS:N	2.69	0.42
13:AM:57:ARG:CG	13:AM:58:GLU:N	2.82	0.42
45:DN:34:LEU:O	45:DN:49:GLY:HA3	2.19	0.42
4:AD:129:ASN:HD21	4:AD:145:GLU:N	2.18	0.42
1:CA:376:G:N3	1:CA:389:A:C2	2.88	0.42
36:DA:216:A:C4	36:DA:432:A:C2	3.07	0.42
36:DA:1230:C:H2'	36:DA:1231:G:C8	2.54	0.42
36:DA:1677:A:H2'	36:DA:1678:G:H8	1.81	0.42
49:BR:41:ALA:O	49:BR:43:GLU:N	2.52	0.42
33:D7:27:GLY:HA2	33:D7:30:VAL:HG23	2.01	0.42
36:DA:742:G:H2'	36:DA:743:G:H8	1.85	0.42
36:DA:2636:U:O5'	40:DE:80:GLU:HG3	2.19	0.42
1:AA:538:G:O2'	1:AA:539:A:H5'	2.19	0.42
1:AA:500:G:C5'	12:AL:124:LYS:HZ3	2.31	0.42
1:CA:300:A:H2'	1:CA:301:G:O4'	2.19	0.42
36:DA:783:A:H2'	36:DA:784:A:O5'	2.20	0.42
39:DD:228:PRO:HD3	39:DD:235:GLY:CA	2.49	0.42
50:DS:20:ARG:NE	50:DS:20:ARG:CA	2.82	0.42
36:BA:784:A:N6	39:BD:229:VAL:HG11	2.35	0.42
36:BA:2840:C:H2'	36:BA:2841:C:H6	1.84	0.42
36:BA:327:G:O2'	36:BA:328:U:H5'	2.19	0.42
29:D3:42:ALA:O	29:D3:43:ILE:C	2.58	0.42
42:BG:55:LYS:CD	42:BG:58:GLN:HE21	2.32	0.42
1:CA:1271:G:H2'	1:CA:1272:G:C8	2.55	0.42
19:CS:4:SER:O	19:CS:5:LEU:C	2.58	0.42
15:CO:56:LEU:HD21	36:DA:715:G:N3	2.35	0.42
36:BA:299:A:H5'	56:BY:97:ARG:HE	1.84	0.42
38:BC:79:ALA:HB1	38:BC:83:LYS:CB	2.48	0.42
23:AW:33:U:O2	23:AW:33:U:H2'	2.19	0.42
40:DE:26:ILE:CG2	40:DE:196:VAL:HG21	2.50	0.42
28:D2:50:ILE:C	28:D2:52:ASP:N	2.72	0.42
2:CB:147:LYS:HE2	2:CB:148:TYR:CE1	2.54	0.42
38:DC:92:ALA:HB3	38:DC:95:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1400:G:H2'	36:BA:1401:G:C8	2.55	0.42
46:BO:10:VAL:O	46:BO:10:VAL:HG23	2.18	0.42
36:DA:751:A:C5'	54:DW:90:ARG:HA	2.48	0.42
57:DZ:5:LEU:O	57:DZ:59:LEU:HA	2.19	0.42
6:CF:37:VAL:HG12	6:CF:38:GLU:O	2.19	0.42
1:AA:67:C:O2'	1:AA:171:A:H1'	2.20	0.42
7:AG:91:VAL:HG12	7:AG:92:SER:H	1.84	0.42
19:CS:72:GLY:C	19:CS:74:PHE:N	2.72	0.42
11:CK:87:THR:O	11:CK:88:GLY:C	2.58	0.42
40:BE:147:PRO:HG2	40:BE:148:GLY:H	1.83	0.42
36:BA:292:C:H2'	36:BA:293:U:C6	2.53	0.42
25:AY:673:PHE:CG	25:AY:674:ASP:N	2.88	0.42
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.55	0.42
57:DZ:78:LYS:NZ	57:DZ:84:GLU:OE1	2.53	0.42
36:DA:1308:A:N6	36:DA:1606:G:H1'	2.34	0.42
1:AA:779:C:H1'	11:AK:120:ARG:HD2	2.02	0.42
36:BA:531:C:OP1	36:BA:561:G:N1	2.51	0.42
36:BA:2662:A:H2'	36:BA:2663:G:O4'	2.19	0.42
38:DC:46:ALA:HA	38:DC:212:SER:O	2.19	0.42
11:CK:60:ALA:O	11:CK:61:ALA:C	2.56	0.42
49:BR:26:LYS:CE	49:BR:71:GLN:H	2.31	0.42
1:CA:923:A:O2'	1:CA:924:C:H5'	2.19	0.42
4:AD:50:ARG:HA	4:AD:51:PRO:HD3	1.89	0.42
26:D0:21:LEU:HD22	26:D0:39:ARG:O	2.18	0.42
37:DB:30:C:H2'	37:DB:31:C:O4'	2.20	0.42
36:DA:1555:G:N3	36:DA:1555:G:H2'	2.34	0.42
36:DA:206:U:H2'	36:DA:206:U:O2	2.20	0.42
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.20	0.42
40:BE:109:LYS:HE2	40:BE:191:PRO:HA	2.01	0.42
36:BA:695:G:OP1	36:BA:1380:G:H4'	2.19	0.42
30:D4:27:THR:O	30:D4:27:THR:HG23	2.19	0.42
25:CY:438:PHE:HD2	25:CY:462:ILE:CD1	2.32	0.42
59:AY:701:FUA:C15	59:AY:701:FUA:H323	2.49	0.42
25:CY:141:LYS:CE	60:CY:702:GDP:HN22	2.31	0.42
25:CY:157:LEU:N	25:CY:157:LEU:CD2	2.74	0.42
25:CY:188:TYR:CE1	25:CY:196:ILE:HG22	2.54	0.42
36:BA:2439:A:H3'	36:BA:2600:A:OP1	2.19	0.42
25:CY:491:VAL:CG2	25:CY:597:GLY:HA2	2.49	0.42
1:CA:1401:G:C2'	1:CA:1402:C:H5'	2.50	0.42
45:DN:46:VAL:CG2	45:DN:48:MET:HG3	2.49	0.42
36:BA:2293:C:OP1	50:BS:92:TYR:OH	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:35:ILE:C	50:BS:36:TYR:HD1	2.22	0.42
50:BS:98:VAL:C	50:BS:100:ALA:N	2.72	0.42
42:BG:100:TRP:O	42:BG:101:ILE:C	2.58	0.42
10:CJ:79:ARG:NH1	10:CJ:79:ARG:HG2	2.34	0.42
47:DP:23:PRO:CG	47:DP:33:ARG:HE	2.32	0.42
32:D6:8:LYS:O	32:D6:9:LEU:O	2.37	0.42
34:D8:33:ASN:O	34:D8:34:TRP:CB	2.66	0.42
36:BA:2881:C:C2	36:BA:2882:A:C8	3.07	0.42
25:AY:555:LEU:HG	25:AY:599:PRO:CB	2.44	0.42
56:BY:8:LYS:HE3	56:BY:74:PRO:HD3	2.02	0.42
25:CY:217:VAL:HA	25:CY:220:ALA:HB3	2.01	0.42
25:AY:632:LEU:HD11	25:AY:646:PHE:CE2	2.55	0.42
28:B2:38:GLN:HA	28:B2:41:ILE:HG23	2.00	0.42
47:DP:102:ARG:HH11	47:DP:102:ARG:CB	2.33	0.42
7:CG:23:VAL:CG1	7:CG:43:PHE:CE2	3.01	0.42
36:BA:649:G:H2'	36:BA:650:C:C6	2.55	0.42
36:BA:650:C:C2'	36:BA:651:G:H5''	2.50	0.42
25:AY:409:ILE:O	25:AY:459:LEU:HD21	2.20	0.42
27:B1:83:GLU:O	27:B1:84:GLY:O	2.38	0.42
1:AA:193:C:H2'	1:AA:194:C:C6	2.55	0.42
20:AT:52:ALA:O	20:AT:53:LEU:C	2.56	0.42
36:DA:2762:G:H8	36:DA:2762:G:C5'	2.30	0.42
34:B8:56:GLU:O	34:B8:59:LYS:HE3	2.20	0.42
36:DA:857:C:N4	36:DA:858:U:O4	2.52	0.42
48:DQ:137:TYR:N	48:DQ:137:TYR:CD1	2.87	0.42
2:CB:17:PHE:C	2:CB:17:PHE:CD1	2.92	0.42
2:CB:187:LEU:CD1	2:CB:205:ASP:HA	2.50	0.42
36:BA:1485:G:H2'	36:BA:1486:A:H8	1.81	0.42
40:DE:31:CYS:HA	40:DE:32:PRO:HD3	1.78	0.42
36:BA:662:G:H2'	36:BA:663:G:H8	1.84	0.42
36:BA:1782:C:H1'	36:BA:2609:U:C5'	2.36	0.42
4:CD:173:TRP:CZ3	4:CD:193:ASP:HB3	2.54	0.42
2:CB:119:GLU:O	2:CB:121:LEU:N	2.51	0.42
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.41	0.42
1:CA:187:C:OP1	20:CT:82:SER:HB2	2.19	0.42
4:CD:26:CYS:HA	4:CD:31:CYS:HA	2.01	0.42
40:DE:87:GLU:O	40:DE:88:GLY:C	2.57	0.42
9:CI:93:ARG:O	9:CI:95:LYS:N	2.52	0.42
22:AV:49:C:H2'	22:AV:50:U:C6	2.55	0.42
1:AA:1112:C:H1'	3:AC:179:ARG:HD3	2.00	0.42
9:AI:95:LYS:NZ	9:AI:96:LEU:HD13	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:20:LYS:H	12:CL:20:LYS:CD	2.23	0.42
1:AA:1299:A:C2	1:AA:1301:U:C2	3.07	0.42
54:BW:20:VAL:CG2	54:BW:47:VAL:HG21	2.49	0.42
41:DF:89:VAL:CG1	41:DF:90:PHE:H	2.19	0.42
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.19	0.42
1:CA:375:U:H2'	1:CA:376:G:C8	2.54	0.42
50:BS:77:ALA:O	50:BS:80:LEU:N	2.52	0.42
1:AA:773:G:C2'	1:AA:774:G:H5'	2.50	0.42
36:BA:870:A:C2	36:BA:871:U:H1'	2.54	0.42
36:DA:180:G:N2	36:DA:214:G:O6	2.53	0.42
43:BH:35:VAL:O	43:BH:37:VAL:HG23	2.19	0.42
2:AB:73:THR:O	2:AB:75:LYS:N	2.52	0.42
2:AB:77:ALA:O	2:AB:78:GLN:O	2.38	0.42
1:CA:1346:A:N6	1:CA:1375:A:OP2	2.45	0.42
56:DY:11:ASP:HA	56:DY:27:VAL:HG22	2.02	0.42
1:CA:537:G:H2'	1:CA:538:G:H8	1.84	0.42
36:DA:1722:A:O2'	36:DA:1739:U:C5'	2.67	0.42
1:AA:474:G:H2'	1:AA:475:G:H8	1.84	0.42
43:BH:89:ILE:HG22	43:BH:162:ILE:HG22	2.01	0.42
36:DA:657:U:H2'	36:DA:658:C:C5	2.54	0.42
28:B2:24:LEU:HD23	28:B2:24:LEU:C	2.39	0.42
27:B1:71:TYR:N	27:B1:71:TYR:HD1	2.18	0.42
1:CA:821:G:H2'	1:CA:822:C:C6	2.54	0.42
36:DA:1197:G:H2'	36:DA:1198:U:C6	2.48	0.42
36:BA:2075:U:O2'	36:BA:2076:U:H5''	2.20	0.42
36:BA:752:A:H4'	36:BA:753:C:O5'	2.20	0.42
29:D3:46:ASN:O	29:D3:47:VAL:C	2.58	0.42
36:DA:1131:G:N3	36:DA:1132:A:C8	2.87	0.42
48:BQ:43:THR:OG1	48:BQ:45:GLN:HG2	2.19	0.42
1:AA:1305:G:H5''	21:AU:4:GLY:C	2.40	0.42
36:DA:803:U:H2'	36:DA:804:A:H5'	2.01	0.42
46:BO:87:ILE:HG22	46:BO:93:PRO:HA	2.01	0.42
26:B0:46:LYS:HD2	26:B0:78:TYR:CZ	2.54	0.42
53:BV:66:ARG:NH1	53:BV:88:ARG:NE	2.67	0.42
53:BV:99:ILE:H	53:BV:99:ILE:HD13	1.82	0.42
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	2.01	0.42
41:BF:101:LEU:HB3	41:BF:106:ARG:HD3	2.02	0.42
25:AY:137:ASN:ND2	25:AY:263:ALA:H	2.17	0.42
19:AS:72:GLY:C	19:AS:74:PHE:N	2.72	0.42
1:AA:238:G:O2'	1:AA:239:U:H5'	2.19	0.42
36:DA:2647:U:H2'	36:DA:2648:C:H6	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.52	0.42
2:AB:97:TRP:CH2	2:AB:176:GLU:CD	2.93	0.42
14:AN:21:TYR:CE2	14:AN:23:ARG:NH2	2.87	0.42
36:DA:718:A:H3'	36:DA:719:C:H6	1.84	0.42
4:CD:168:ARG:HH11	4:CD:168:ARG:HA	1.83	0.42
36:BA:1662:C:H2'	36:BA:1663:C:C6	2.54	0.42
1:CA:505:G:H5'	1:CA:534:U:H2'	2.02	0.42
1:CA:260:G:H2'	1:CA:261:U:C6	2.55	0.42
1:CA:152:A:N6	1:CA:170:U:C2	2.87	0.42
6:AF:60:PHE:CE2	18:AR:78:LEU:HD21	2.55	0.42
36:BA:2559:C:H2'	36:BA:2560:C:H6	1.85	0.42
1:CA:1248:A:C5	1:CA:1249:C:C5	3.08	0.42
2:CB:231:GLU:HB2	2:CB:232:PRO:CD	2.50	0.42
44:DJ:94:UNK:O	44:DJ:95:UNK:C	2.66	0.42
36:BA:271(M):G:H2'	36:BA:271(N):U:H5''	2.02	0.42
4:CD:137:SER:O	4:CD:138:TYR:C	2.57	0.42
1:AA:72:C:H2'	1:AA:73:G:H8	1.83	0.42
36:DA:2662:A:H2'	36:DA:2663:G:O4'	2.19	0.42
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.85	0.42
36:DA:1565:C:H3'	39:DD:18:VAL:HG21	2.01	0.42
25:CY:350:GLU:OE1	25:CY:350:GLU:HA	2.19	0.42
36:BA:173:G:H2'	36:BA:173:G:N3	2.35	0.42
1:AA:161:A:O2'	1:AA:162:A:H5'	2.19	0.42
36:BA:1338:G:N2	36:BA:1339:G:H1'	2.34	0.42
25:AY:390:VAL:O	25:AY:391:GLY:C	2.57	0.42
36:BA:611:C:H2'	36:BA:612:C:C6	2.54	0.42
30:D4:27:THR:O	30:D4:28:LYS:CB	2.67	0.42
30:D4:5:ILE:C	30:D4:6:HIS:HD2	2.23	0.42
19:AS:42:PRO:HB3	30:B4:50:VAL:CG2	2.22	0.42
41:BF:24:LEU:CB	41:BF:25:PRO:HD2	2.31	0.42
54:BW:82:LEU:N	54:BW:82:LEU:CD1	2.82	0.42
36:DA:1052:C:O2'	36:DA:1053:C:O5'	2.38	0.42
53:BV:12:TYR:CE2	53:BV:22:VAL:HG12	2.55	0.42
50:BS:89:ARG:HG3	50:BS:92:TYR:CB	2.49	0.42
57:BZ:153:SER:O	57:BZ:155:LEU:HD23	2.19	0.42
55:BX:7:VAL:CG1	55:BX:39:ILE:HD13	2.50	0.42
30:B4:10:VAL:CG2	30:B4:11:PRO:CD	2.97	0.42
30:B4:25:TYR:N	30:B4:25:TYR:CD1	2.87	0.42
50:DS:99:LYS:O	50:DS:100:ALA:C	2.57	0.42
57:DZ:10:ARG:NH2	57:DZ:26:GLY:H	2.07	0.42
32:B6:27:LYS:CD	32:B6:30:THR:HB	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:26:GLU:HA	15:CO:81:LEU:CD2	2.47	0.42
52:DU:112:ARG:NH2	53:DV:46:VAL:HG21	2.34	0.42
36:BA:1023:U:H2'	36:BA:1024:G:H5'	2.01	0.42
45:BN:58:ASP:OD1	45:BN:124:ALA:HB1	2.19	0.42
25:CY:230:LYS:HD2	25:CY:235:GLU:OE1	2.19	0.42
3:CC:155:GLY:O	3:CC:196:LEU:HD13	2.19	0.42
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.49	0.42
47:DP:112:LEU:O	47:DP:112:LEU:HD13	2.19	0.42
36:BA:1493:C:C2'	36:BA:1493:C:O2	2.67	0.42
25:CY:601:ILE:HD13	25:CY:687:LEU:HD12	2.02	0.42
50:BS:14:VAL:HG12	50:BS:15:ARG:N	2.34	0.42
51:BT:112:ARG:O	51:BT:115:ARG:HD3	2.19	0.42
27:B1:86:SER:HA	27:B1:89:GLU:OE2	2.19	0.42
51:DT:106:SER:O	51:DT:107:ASP:CB	2.66	0.42
39:DD:35:LYS:HZ1	39:DD:36:PRO:HD3	1.79	0.42
36:DA:27:G:C2'	36:DA:28:A:OP2	2.68	0.42
36:DA:252:G:H2'	36:DA:253:C:H6	1.84	0.42
2:CB:17:PHE:N	2:CB:17:PHE:CD1	2.86	0.42
40:DE:51:PHE:N	40:DE:74:PRO:HG3	2.35	0.42
9:CI:50:LEU:HG	9:CI:81:ILE:HG21	2.02	0.42
40:BE:50:GLY:CA	40:BE:74:PRO:HG3	2.48	0.42
4:AD:173:TRP:CZ3	4:AD:193:ASP:HB3	2.55	0.42
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.49	0.42
4:CD:104:VAL:O	4:CD:108:LEU:HB2	2.19	0.42
39:BD:183:ARG:HD2	39:BD:270:ILE:CG2	2.49	0.42
36:BA:2197:U:H1'	36:BA:2198:A:C8	2.54	0.42
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.40	0.42
26:D0:41:ARG:O	26:D0:42:GLY:O	2.37	0.42
39:BD:276:LYS:HD3	39:BD:276:LYS:C	2.39	0.42
5:AE:11:ILE:CG2	5:AE:12:LEU:H	2.32	0.42
42:DG:77:ILE:CG2	42:DG:80:PHE:CB	2.93	0.42
36:DA:560:C:H4'	52:DU:52:ARG:NH2	2.35	0.42
43:BH:41:MET:HE3	43:BH:43:VAL:HG12	2.01	0.42
26:D0:14:ARG:CB	26:D0:14:ARG:HH11	2.27	0.42
36:DA:2277:G:C6	36:DA:2278:A:N7	2.88	0.42
3:CC:178:LEU:C	3:CC:180:ALA:H	2.23	0.42
36:DA:2442:C:H2'	36:DA:2443:C:H6	1.85	0.42
1:CA:1103:C:C4	1:CA:1104:G:N7	2.88	0.42
15:CO:85:LEU:O	15:CO:85:LEU:HD23	2.20	0.42
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	2.02	0.42
25:AY:259:PHE:CZ	25:AY:275:ALA:HB1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:70:G:O2'	22:CV:71:G:H5'	2.20	0.42
57:DZ:43:GLU:HG3	57:DZ:44:PHE:N	2.35	0.42
36:DA:688:U:H2'	36:DA:689:A:C8	2.54	0.42
39:DD:9:TYR:C	39:DD:10:THR:HG22	2.39	0.42
36:DA:955:C:H2'	36:DA:956:G:H5'	2.02	0.42
48:DQ:52:VAL:C	48:DQ:54:MET:N	2.71	0.42
50:BS:77:ALA:HB1	50:BS:82:ILE:HB	2.00	0.42
36:BA:956:G:O4'	48:BQ:83:MET:HE1	2.20	0.42
36:BA:904:C:O2'	36:BA:905:U:H5'	2.19	0.42
36:DA:2147:G:C2'	36:DA:2148:G:H5'	2.49	0.42
36:DA:2740:A:C6	36:DA:2741:A:C6	3.08	0.42
4:AD:179:GLU:C	4:AD:181:MET:H	2.21	0.42
2:AB:75:LYS:C	2:AB:75:LYS:HD3	2.39	0.42
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.55	0.42
36:BA:598:G:H5'	47:BP:15:ARG:HD3	2.02	0.42
1:CA:474:G:H2'	1:CA:475:G:H8	1.85	0.42
25:CY:295:GLU:HB2	25:CY:296:GLY:H	1.72	0.42
39:DD:172:TYR:HD1	39:DD:185:VAL:C	2.23	0.42
36:DA:1049:C:H2'	36:DA:1050:A:C8	2.46	0.42
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.19	0.42
1:AA:949:A:C2	1:AA:1233:G:C4	3.08	0.42
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.18	0.42
36:BA:1057:A:H2'	36:BA:1058:G:H8	1.84	0.42
49:DR:76:VAL:HG13	49:DR:77:ARG:N	2.34	0.42
41:DF:38:ARG:O	41:DF:42:ALA:CB	2.68	0.42
36:DA:2410:G:H2'	36:DA:2411:A:C8	2.55	0.42
43:BH:65:HIS:HE1	43:BH:69:ARG:NH1	2.17	0.42
53:BV:2:PHE:O	53:BV:3:ALA:CB	2.68	0.42
39:DD:204:ILE:O	39:DD:204:ILE:HG13	2.20	0.42
36:BA:1317:A:H2'	36:BA:1318:C:C6	2.55	0.42
1:CA:383:A:H2'	1:CA:384:G:H5'	2.01	0.42
1:AA:1107:C:C4	1:AA:1108:G:C8	3.08	0.42
36:DA:1545:A:N7	36:DA:1546:C:C2	2.88	0.42
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.20	0.42
40:BE:145:LYS:HD3	40:BE:145:LYS:HA	1.94	0.42
36:DA:587:C:C5	36:DA:671:C:H1'	2.55	0.42
36:DA:465:G:H2'	36:DA:466:A:C8	2.55	0.42
20:CT:74:LYS:HB2	20:CT:75:ASN:H	1.44	0.42
3:AC:28:GLN:O	3:AC:29:TYR:C	2.58	0.42
36:DA:1308:A:H2'	36:DA:1309:G:O4'	2.19	0.42
36:BA:438:G:H2'	36:BA:440:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:16:LEU:O	19:AS:20:LEU:N	2.46	0.42
36:BA:244:A:H1'	36:BA:255:A:N6	2.35	0.42
1:AA:1362:C:O2'	1:AA:1363:C:H5''	2.20	0.42
1:CA:897:C:O2'	1:CA:898:G:H5'	2.20	0.42
36:DA:1161:C:H2'	36:DA:1162:G:C8	2.54	0.42
12:AL:43:VAL:HG13	12:AL:55:VAL:HG21	2.00	0.42
27:D1:25:LYS:HB2	36:DA:388:G:H5'	2.01	0.42
25:CY:253:LEU:N	25:CY:253:LEU:HD12	2.34	0.42
15:AO:54:ARG:HG2	15:AO:58:MET:CE	2.50	0.42
10:AJ:99:LYS:HA	10:AJ:99:LYS:HD3	1.80	0.42
30:D4:26:SER:HB3	42:DG:105:LYS:NZ	2.35	0.42
42:DG:56:ALA:HA	42:DG:59:GLU:OE2	2.20	0.42
37:DB:45:A:C1'	42:DG:95:ARG:NH1	2.79	0.42
36:BA:320:A:H4'	36:BA:322:A:N7	2.34	0.42
23:CW:38:A:C3'	23:CW:39:C:P	3.04	0.42
36:BA:186:G:H2'	36:BA:187:G:H8	1.85	0.42
54:DW:82:LEU:CD1	54:DW:82:LEU:N	2.82	0.42
36:DA:1052:C:C6	36:DA:1052:C:H3'	2.53	0.42
36:DA:1052:C:O2'	36:DA:1053:C:P	2.78	0.42
56:DY:99:CYS:O	56:DY:100:ALA:O	2.38	0.42
3:CC:52:LEU:HD12	3:CC:55:VAL:HG22	2.02	0.42
36:BA:2724:C:OP1	40:BE:111:ARG:HD3	2.20	0.42
32:D6:12:GLU:HB3	32:D6:23:THR:HG22	2.02	0.42
25:AY:546:ILE:HG21	25:AY:565:VAL:HG21	2.01	0.42
55:DX:34:ALA:HA	55:DX:38:GLU:OE1	2.19	0.42
49:DR:28:LEU:CD2	49:DR:29:LEU:HD12	2.45	0.42
32:D6:15:GLU:HB2	32:D6:49:HIS:NE2	2.34	0.42
56:BY:61:ILE:CG1	56:BY:62:GLU:N	2.83	0.42
36:DA:1902:C:C4'	39:DD:244:ARG:HB2	2.49	0.42
36:BA:1070:A:C2	36:BA:1097:U:H4'	2.55	0.42
56:DY:46:LYS:H	56:DY:62:GLU:CB	2.15	0.42
45:DN:62:VAL:HG22	45:DN:66:LYS:CG	2.46	0.42
36:BA:1568:G:OP2	39:BD:63:ARG:NH2	2.48	0.42
36:DA:624:C:N4	47:DP:107:LYS:NZ	2.67	0.42
36:DA:649:G:C2	36:DA:650:C:C2	3.08	0.42
47:DP:147:LEU:C	47:DP:148:LEU:HD12	2.40	0.42
47:DP:99:LEU:O	47:DP:103:ALA:HB2	2.19	0.42
36:BA:2334:G:N3	50:BS:18:ILE:HD13	2.34	0.42
27:B1:82:LEU:CD1	27:B1:82:LEU:N	2.81	0.42
39:DD:30:GLU:CB	39:DD:35:LYS:HZ2	2.32	0.42
1:AA:181:G:N2	1:AA:195:A:C4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:59:ARG:O	28:D2:61:LEU:N	2.53	0.42
39:DD:24:ILE:HG23	39:DD:25:THR:N	2.25	0.42
36:DA:662:G:H2'	36:DA:663:G:C8	2.54	0.42
1:CA:1277:C:H2'	1:CA:1278:U:C5'	2.36	0.42
40:BE:76:ARG:O	40:BE:77:ILE:O	2.37	0.42
1:CA:1490:C:C6	1:CA:1490:C:C5'	2.97	0.42
3:CC:80:GLY:HA3	3:CC:82:GLU:OE2	2.19	0.42
36:DA:1528:A:C2	36:DA:1542:A:H2	2.38	0.42
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.84	0.42
37:DB:82:G:C2	37:DB:83:G:C8	3.07	0.42
40:DE:1:MET:O	40:DE:2:LYS:C	2.58	0.42
39:DD:183:ARG:CG	39:DD:183:ARG:NH1	2.77	0.42
36:DA:2561:A:H2'	36:DA:2562:U:O4'	2.19	0.42
39:DD:155:LEU:HD23	39:DD:177:LEU:HD22	2.01	0.42
36:DA:2778:A:C5'	36:DA:2779:U:OP1	2.58	0.42
51:BT:11:GLU:N	51:BT:11:GLU:CD	2.73	0.42
51:BT:3:ARG:C	51:BT:5:ALA:N	2.71	0.42
20:AT:104:LEU:HD23	20:AT:105:SER:O	2.18	0.42
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.19	0.42
39:DD:111:LEU:HD23	39:DD:127:VAL:HG12	2.01	0.42
25:AY:302:HIS:O	25:AY:304:ASP:N	2.40	0.42
36:DA:614:U:H2'	36:DA:614(A):U:O4'	2.19	0.42
39:BD:181:GLU:HA	39:BD:273:ARG:O	2.19	0.42
3:CC:134:ILE:O	3:CC:135:LYS:C	2.58	0.42
46:BO:64:ARG:O	46:BO:82:ASN:HA	2.20	0.42
36:BA:8:A:H2'	36:BA:9:U:C5	2.55	0.42
19:CS:15:LEU:HA	19:CS:15:LEU:HD22	1.86	0.42
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.40	0.42
13:AM:79:LYS:HA	13:AM:82:MET:HG3	2.00	0.42
11:AK:99:GLN:HG2	11:AK:105:VAL:CG2	2.44	0.42
36:DA:1287:A:C2	36:DA:1288:U:C2	3.07	0.42
57:BZ:80:ARG:O	57:BZ:81:ARG:O	2.38	0.42
52:BU:62:ILE:HG23	52:BU:76:TYR:CE2	2.55	0.42
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.38	0.42
9:AI:125:TYR:CE1	9:AI:127:LYS:HB2	2.54	0.42
25:AY:580:MET:O	25:AY:583:LYS:CB	2.67	0.42
12:CL:23:LYS:HE3	12:CL:89:ARG:HE	1.85	0.42
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.50	0.42
4:AD:122:ARG:NH1	4:AD:134:ASP:O	2.52	0.42
1:AA:375:U:O2'	16:AP:28:ARG:HD2	2.19	0.42
43:DH:20:ALA:CB	43:DH:21:PRO:CD	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:92:C:H2'	37:BB:93:G:C8	2.54	0.42
36:BA:1722:A:C2	36:BA:1740:G:C8	3.07	0.42
40:BE:93:VAL:O	40:BE:95:ILE:N	2.53	0.42
26:B0:51:VAL:HG13	26:B0:60:PHE:O	2.20	0.42
27:B1:71:TYR:N	27:B1:71:TYR:CD1	2.87	0.42
12:AL:11:VAL:HG13	17:AQ:29:HIS:HD2	1.84	0.42
36:BA:784:A:HO2'	36:BA:785:G:H8	1.68	0.42
41:DF:5:ALA:HB1	41:DF:125:LEU:HD21	2.02	0.42
36:BA:570:G:O6	36:BA:2499:C:OP1	2.37	0.42
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.64	0.42
36:BA:1952:A:C5	46:BO:22:ILE:HD12	2.55	0.42
36:DA:26:G:P	54:DW:80:PRO:HB3	2.59	0.42
36:DA:2453:A:O2'	36:DA:2454:G:H5'	2.20	0.42
53:DV:64:HIS:HA	53:DV:92:THR:HA	2.01	0.42
38:DC:79:ALA:HB1	38:DC:83:LYS:CB	2.46	0.42
1:CA:1379:G:C6	1:CA:1380:U:C4	3.08	0.42
23:CW:33:U:H2'	23:CW:33:U:O2	2.19	0.42
11:CK:126:ARG:O	11:CK:127:LYS:C	2.58	0.42
36:DA:2869:G:C5	36:DA:2870:C:C4	3.07	0.42
55:BX:64:LYS:HZ3	55:BX:73:ARG:NH2	2.18	0.42
37:BB:68:C:H2'	37:BB:69:G:O4'	2.19	0.42
45:BN:51:PHE:N	45:BN:51:PHE:CD1	2.88	0.42
1:AA:1095:U:P	1:AA:1108:G:H1	2.42	0.42
1:CA:400:C:H2'	1:CA:401:C:C6	2.55	0.42
1:CA:636:U:H5''	17:CQ:2:PRO:HG3	2.00	0.42
36:DA:1984:G:H2'	36:DA:1985:G:H8	1.85	0.42
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.35	0.42
1:CA:784:C:H2'	1:CA:785:G:H8	1.84	0.42
36:DA:1836:C:O2'	36:DA:1837:C:H5'	2.19	0.42
13:AM:73:GLU:O	13:AM:76:ALA:HB3	2.20	0.42
1:CA:78:G:H22	1:CA:91:C:N4	2.18	0.42
49:BR:23:ASN:O	49:BR:27:SER:HB2	2.20	0.42
1:AA:189(B):C:C2	1:AA:189(J):G:C2	3.08	0.42
39:BD:223:GLY:O	39:BD:225:ALA:N	2.53	0.42
1:AA:1248:A:C5	1:AA:1249:C:C5	3.07	0.42
13:CM:72:ALA:O	13:CM:75:ALA:N	2.52	0.42
36:BA:1087:G:H5''	36:BA:1088:A:OP2	2.19	0.42
8:AH:122:ARG:HB3	8:AH:122:ARG:HH11	1.85	0.42
1:CA:557:G:H2'	1:CA:558:G:O4'	2.19	0.42
36:DA:1292:U:H2'	36:DA:1293:C:C6	2.55	0.42
36:BA:2256:G:O2'	36:BA:2257:U:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:48:LYS:HD3	15:AO:48:LYS:HA	1.63	0.42
55:BX:43:VAL:C	55:BX:45:THR:H	2.23	0.42
20:AT:14:LYS:N	20:AT:17:ARG:HH21	2.18	0.42
22:CV:35:A:H2'	22:CV:36:A:H8	1.85	0.42
10:AJ:78:ASN:HB2	10:AJ:81:THR:CG2	2.48	0.42
42:DG:106:LEU:HD12	42:DG:110:ALA:CB	2.50	0.42
25:CY:93:GLU:HG3	59:CY:701:FUA:C7	2.50	0.42
59:AY:701:FUA:H231	59:AY:701:FUA:C12	2.45	0.42
25:AY:36:THR:HG21	25:AY:72:CYS:SG	2.60	0.42
25:CY:138:LYS:HE2	60:CY:702:GDP:C1'	2.50	0.42
25:CY:147:TRP:CE3	25:CY:150:ILE:HD12	2.54	0.42
36:DA:1045:A:O2'	36:DA:1047:G:C5	2.71	0.42
53:BV:19:LYS:HZ1	53:BV:22:VAL:HG13	1.84	0.42
57:BZ:4:ARG:HA	57:BZ:58:VAL:O	2.19	0.42
3:AC:87:LEU:O	3:AC:88:ARG:C	2.58	0.42
57:BZ:168:GLU:CA	57:BZ:168:GLU:OE1	2.67	0.42
40:DE:116:VAL:HG21	40:DE:122:PHE:CD2	2.55	0.42
32:B6:12:GLU:HB3	32:B6:23:THR:HG22	2.02	0.42
36:DA:996:A:H2'	36:DA:997:G:H8	1.83	0.42
52:DU:79:PHE:CE1	52:DU:83:LEU:CD1	3.03	0.42
53:DV:39:LEU:HB3	53:DV:47:VAL:HG11	2.01	0.42
31:D5:53:ALA:O	31:D5:55:ARG:N	2.53	0.42
36:DA:2260:C:H2'	36:DA:2261:C:H6	1.85	0.42
31:D5:4:HIS:CB	31:D5:5:PRO:CD	2.92	0.42
45:DN:19:GLU:HB2	45:DN:59:LYS:CB	2.50	0.42
36:DA:650:C:C2'	36:DA:651:G:H5''	2.50	0.42
47:DP:131:SER:OG	47:DP:134:ALA:HB3	2.20	0.42
36:BA:2205:C:H5'	36:BA:2206:G:OP2	2.19	0.42
36:BA:948:G:H1	36:BA:969:U:H3	1.68	0.42
47:BP:112:LEU:HD13	47:BP:112:LEU:O	2.20	0.42
47:BP:125:VAL:O	47:BP:125:VAL:HG13	2.20	0.42
36:DA:1493:C:H4'	36:DA:1494:A:OP2	2.19	0.42
25:AY:413:ILE:HG22	25:AY:449:THR:O	2.19	0.42
51:DT:108:ARG:HA	51:DT:111:ARG:HH11	1.84	0.42
34:B8:56:GLU:C	34:B8:58:ILE:N	2.72	0.42
39:DD:26:LYS:O	39:DD:27:THR:HB	2.19	0.42
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.49	0.42
13:AM:10:PRO:HB2	13:AM:18:ALA:CB	2.44	0.42
2:CB:59:GLU:HB2	2:CB:221:LEU:HD11	2.02	0.42
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.50	0.42
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:16:ARG:HH11	51:DT:16:ARG:HG3	1.85	0.42
36:BA:1536:C:H2'	36:BA:1537:G:C4'	2.46	0.42
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.55	0.42
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.20	0.42
26:D0:40:GLN:HE22	26:D0:43:THR:CA	2.31	0.42
1:CA:1321:C:C5'	1:CA:1322:C:C5'	2.96	0.42
51:DT:6:LEU:O	51:DT:7:ILE:C	2.58	0.42
12:CL:70:ILE:HG21	12:CL:77:LEU:CD1	2.50	0.42
36:DA:938:G:C2	36:DA:939:G:N7	2.88	0.42
54:DW:17:VAL:C	54:DW:19:LEU:N	2.73	0.42
57:BZ:176:PRO:HA	57:BZ:177:PRO:HD3	1.78	0.42
34:D8:62:LEU:HD13	36:DA:242:G:C5'	2.47	0.42
1:AA:33:A:O2'	1:AA:363:A:N3	2.52	0.42
18:CR:37:VAL:O	18:CR:39:VAL:N	2.53	0.42
36:DA:892:G:O2'	36:DA:893:C:H5'	2.19	0.42
48:DQ:56:ARG:HH21	57:DZ:180:VAL:CG2	2.28	0.42
12:CL:98:TYR:CD1	12:CL:98:TYR:N	2.88	0.42
45:BN:34:LEU:HD12	45:BN:119:ARG:HB2	2.01	0.42
25:CY:541:ALA:CB	25:CY:579:GLU:HG2	2.50	0.42
31:D5:58:LEU:C	31:D5:58:LEU:HD22	2.40	0.42
37:BB:113:G:H2'	37:BB:113:G:N3	2.33	0.42
25:CY:346:LYS:HE2	25:CY:384:ILE:CG2	2.47	0.42
43:DH:28:GLY:HA3	43:DH:79:VAL:CG2	2.50	0.42
36:BA:1722:A:O2'	36:BA:1739:U:C5'	2.67	0.42
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.83	0.42
36:DA:784:A:N6	39:DD:229:VAL:HG11	2.35	0.42
27:D1:82:LEU:O	27:D1:83:GLU:CG	2.67	0.42
1:AA:179:A:O2'	1:AA:180:U:H5'	2.19	0.42
36:BA:2840:C:H4'	49:BR:53:HIS:HD2	1.83	0.42
5:AE:143:ARG:NH1	8:AH:77:GLU:OE2	2.52	0.42
1:CA:345:C:C5'	1:CA:346:G:OP2	2.67	0.42
41:BF:81:PRO:C	41:BF:83:PHE:H	2.23	0.42
36:DA:752:A:H4'	36:DA:753:C:O5'	2.20	0.42
39:DD:46:GLN:OE1	39:DD:46:GLN:N	2.53	0.42
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.85	0.42
1:AA:417:C:H2'	1:AA:418:C:C6	2.54	0.42
36:DA:2866:U:C6	36:DA:2868:A:H1'	2.54	0.42
37:BB:60:C:H2'	37:BB:61:G:C8	2.50	0.42
36:DA:64:A:O2'	36:DA:65:C:H5'	2.20	0.42
46:BO:60:ALA:HA	46:BO:87:ILE:CD1	2.50	0.42
36:DA:2028:U:O4	36:DA:2033:A:OP1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:63:LEU:H	8:CH:63:LEU:CD2	2.32	0.42
25:AY:641:GLN:HB2	25:AY:641:GLN:HE21	1.67	0.42
38:DC:52:PRO:HB2	38:DC:168:LYS:O	2.20	0.42
36:BA:2492:U:H2'	36:BA:2493:U:H6	1.85	0.42
26:D0:5:LYS:HB2	48:DQ:80:GLU:O	2.20	0.42
36:DA:2202:C:H42	36:DA:2221:G:H1	1.68	0.42
52:BU:113:ALA:O	52:BU:115:ALA:N	2.53	0.42
36:DA:36:G:H2'	36:DA:37:C:H6	1.85	0.42
40:BE:188:VAL:O	40:BE:189:PRO:O	2.38	0.42
36:BA:901:A:N3	36:BA:901:A:H2'	2.35	0.42
3:AC:129:ALA:C	3:AC:131:ARG:N	2.73	0.42
1:AA:342:C:C5	1:AA:343:U:C5	3.07	0.42
36:DA:654(D):G:O2'	36:DA:654(E):G:H5'	2.20	0.42
36:DA:1590:U:O2'	36:DA:1591:G:H5'	2.19	0.42
2:AB:153:ARG:C	2:AB:155:LEU:N	2.73	0.42
36:DA:1636:C:H2'	36:DA:1637:A:C8	2.55	0.42
38:DC:191:ARG:O	38:DC:195:ARG:HG3	2.19	0.42
42:DG:145:THR:CG2	42:DG:148:MET:HB3	2.50	0.42
4:AD:168:ARG:HA	4:AD:168:ARG:HH11	1.83	0.42
36:BA:465:G:H2'	36:BA:466:A:C8	2.54	0.42
1:CA:110:C:H2'	1:CA:111:G:O4'	2.20	0.42
36:BA:1247:A:O2'	36:BA:1248:G:H5'	2.20	0.42
2:CB:194:PRO:O	2:CB:197:VAL:N	2.52	0.42
44:BJ:123:UNK:C	44:BJ:124:UNK:O	2.68	0.42
36:DA:2559:C:H2'	36:DA:2560:C:H6	1.84	0.42
1:CA:161:A:O2'	1:CA:162:A:H5'	2.20	0.42
57:BZ:53:ILE:HG22	57:BZ:71:VAL:HB	2.02	0.42
36:DA:85:G:N3	36:DA:103:A:C2	2.87	0.42
36:BA:2767:C:H2'	36:BA:2768:C:C6	2.55	0.42
1:AA:858:G:O2'	1:AA:859:A:H5''	2.19	0.42
38:BC:15:VAL:HG23	38:BC:15:VAL:O	2.20	0.42
2:CB:23:ARG:HA	2:CB:23:ARG:HD2	1.77	0.42
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.20	0.42
1:CA:877:C:OP1	8:CH:88:LYS:NZ	2.47	0.42
42:DG:131:TYR:HB3	42:DG:159:VAL:CG1	2.50	0.42
42:DG:41:GLN:NE2	42:DG:153:ARG:HD2	2.35	0.42
42:DG:7:LEU:O	42:DG:11:TYR:N	2.37	0.42
25:CY:68:ALA:H	25:CY:327:PHE:HE2	1.68	0.42
25:AY:121:VAL:HG23	25:AY:122:TRP:N	2.29	0.42
25:CY:486:THR:CG2	25:CY:600:VAL:HG13	2.47	0.42
36:DA:2307:G:N2	36:DA:2308:G:H5''	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:491:VAL:HG12	25:CY:492:ASP:N	2.35	0.42
54:BW:96:ILE:O	54:BW:96:ILE:HG23	2.20	0.42
1:CA:1519:A:H3'	1:CA:1520:G:C5'	2.50	0.42
56:DY:76:CYS:O	56:DY:99:CYS:SG	2.78	0.42
52:BU:79:PHE:CE1	52:BU:83:LEU:CD1	3.02	0.42
2:AB:166:ASP:HA	2:AB:167:PRO:HD2	1.87	0.42
1:AA:793:U:C3'	1:AA:794:A:C5'	2.87	0.42
50:DS:88:ASP:O	50:DS:89:ARG:HB3	2.18	0.42
15:AO:25:THR:O	15:AO:26:GLU:C	2.59	0.42
56:DY:38:ILE:O	56:DY:39:VAL:C	2.58	0.42
53:DV:47:VAL:HB	53:DV:50:PRO:O	2.20	0.42
39:BD:131:LEU:HB3	39:BD:132:PRO:CD	2.49	0.42
36:DA:2286:A:H8	36:DA:2287:A:C6	2.37	0.42
36:DA:2724:C:OP1	40:DE:111:ARG:HD3	2.19	0.42
25:AY:238:THR:HG23	25:AY:241:GLU:H	1.85	0.42
36:DA:2019:A:C4'	52:DU:34:LYS:HD2	2.50	0.42
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.49	0.42
27:B1:56:GLN:HA	27:B1:56:GLN:NE2	2.22	0.42
27:B1:94:LEU:O	27:B1:96:LYS:N	2.53	0.42
1:CA:1442(A):G:H2'	51:DT:118:ARG:NH1	2.27	0.42
1:CA:1442(B):A:H4'	1:CA:1443:G:OP1	2.20	0.42
20:AT:48:LYS:O	20:AT:49:ALA:C	2.58	0.42
36:BA:2468:G:H2'	36:BA:2476:A:N7	2.35	0.42
36:DA:2631:G:H2'	36:DA:2632:A:O4'	2.19	0.42
36:DA:2810:A:H2'	40:DE:61:ARG:NH2	2.35	0.42
46:BO:104:ARG:CZ	51:BT:33:LYS:HD2	2.49	0.42
8:CH:83:ILE:HD12	8:CH:137:VAL:CG2	2.38	0.42
39:BD:26:LYS:O	39:BD:27:THR:HB	2.19	0.42
23:AW:27:U:O5'	23:AW:27:U:H6	2.02	0.42
40:DE:49:LEU:HD11	40:DE:91:VAL:CG2	2.50	0.42
40:BE:49:LEU:HD11	40:BE:91:VAL:CG2	2.50	0.42
1:AA:953:G:O6	1:AA:1228:C:N4	2.52	0.42
45:DN:17:ASP:CG	45:DN:56:ASN:HB3	2.41	0.42
36:DA:1349:A:N6	36:DA:1598:C:N4	2.67	0.42
1:CA:703:G:C2'	1:CA:704:A:OP2	2.67	0.42
25:CY:71:THR:HB	25:CY:78:ARG:NH1	2.35	0.42
42:BG:110:ALA:O	42:BG:111:LEU:C	2.59	0.42
2:AB:30:ARG:NH2	2:AB:31:TYR:OH	2.53	0.42
43:BH:121:ILE:HA	43:BH:134:SER:O	2.19	0.42
36:BA:918:A:H1'	37:BB:80:U:O2'	2.20	0.42
36:BA:1052:C:C6	36:BA:1052:C:H3'	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:43:ASP:OD2	2:CB:46:LYS:HE3	2.19	0.42
1:AA:184:G:H2'	1:AA:185:A:H8	1.85	0.42
36:BA:225:A:N6	36:BA:226:G:C2	2.88	0.42
48:DQ:21:THR:OG1	48:DQ:99:PRO:O	2.37	0.42
36:BA:1799:G:C8	39:BD:177:LEU:HD12	2.55	0.42
9:AI:84:ALA:O	9:AI:86:VAL:N	2.53	0.42
36:BA:1188:U:HO2'	36:BA:1189:A:H5'	1.78	0.42
36:DA:1266:G:OP2	54:DW:15:ARG:NH2	2.53	0.42
30:B4:30:GLU:C	30:B4:31:ILE:HD12	2.39	0.42
19:AS:25:LYS:O	19:AS:26:GLY:C	2.58	0.42
36:DA:956:G:N2	36:DA:959:A:H3'	2.35	0.42
40:BE:23:VAL:HA	40:BE:184:VAL:O	2.20	0.42
36:BA:839:U:H2'	36:BA:840:C:C6	2.55	0.42
36:BA:418:G:H2'	36:BA:419:C:H6	1.85	0.42
1:AA:630:G:H2'	1:AA:631:G:H5'	2.00	0.42
35:B9:5:ALA:HB3	36:BA:2465:C:O3'	2.19	0.42
4:AD:159:ARG:O	4:AD:162:LEU:N	2.53	0.42
36:BA:654(S):G:O5'	36:BA:654(T):C:H5''	2.20	0.42
37:BB:86:G:H2'	37:BB:87:G:C8	2.55	0.42
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.40	0.42
11:AK:20:TYR:CD1	11:AK:83:ILE:HB	2.54	0.42
40:DE:21:VAL:HG23	40:DE:21:VAL:O	2.20	0.42
53:DV:35:LEU:HD22	53:DV:35:LEU:N	2.35	0.42
1:CA:1008:C:H2'	1:CA:1009:G:C8	2.51	0.42
36:BA:2414:G:H1'	47:BP:70:GLN:HE22	1.85	0.42
1:CA:958:A:C6	1:CA:959:A:N1	2.88	0.42
12:CL:8:ASN:HB2	17:CQ:34:LYS:HZ3	1.85	0.42
41:BF:199:TRP:CZ3	41:BF:203:GLN:HG2	2.54	0.42
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.50	0.42
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.19	0.42
27:D1:66:HIS:O	27:D1:67:ILE:C	2.57	0.42
1:CA:1010:G:C2	1:CA:1011:G:C8	3.08	0.42
37:BB:35:U:C2'	37:BB:35:U:O2	2.67	0.42
3:AC:92:ALA:HB2	3:AC:99:VAL:CG2	2.50	0.42
36:BA:64:A:O2'	36:BA:65:C:H5'	2.20	0.42
48:BQ:108:GLY:O	48:BQ:109:VAL:CG2	2.68	0.42
53:DV:64:HIS:ND1	53:DV:92:THR:CG2	2.83	0.42
42:DG:168:GLU:C	42:DG:170:ARG:N	2.73	0.42
41:BF:38:ARG:O	41:BF:42:ALA:CB	2.65	0.42
26:B0:7:LEU:HD22	48:BQ:81:VAL:HG23	2.02	0.42
48:BQ:84:GLY:O	48:BQ:85:LYS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:22:LYS:HZ1	10:CJ:23:ILE:HA	1.85	0.42
10:CJ:22:LYS:NZ	10:CJ:23:ILE:HA	2.35	0.42
2:AB:147:LYS:HE2	2:AB:148:TYR:CE1	2.55	0.42
38:DC:84:ILE:O	38:DC:95:VAL:HG11	2.20	0.42
46:BO:108:GLU:N	46:BO:108:GLU:OE1	2.46	0.42
36:DA:901:A:H2'	36:DA:901:A:N3	2.34	0.42
1:CA:64:G:N2	1:CA:67:C:N4	2.68	0.42
1:AA:711:G:H2'	1:AA:712:A:C8	2.55	0.42
1:AA:238:G:C6	1:AA:239:U:C4	3.07	0.42
4:AD:110:PHE:N	4:AD:110:PHE:HD1	2.17	0.42
44:BJ:7:UNK:O	44:BJ:8:UNK:C	2.66	0.42
36:DA:1009:A:OP2	36:DA:1010:A:OP2	2.38	0.42
36:DA:332:A:O2'	36:DA:333:G:P	2.78	0.42
2:AB:152:PHE:O	2:AB:153:ARG:HB2	2.19	0.42
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.42
36:DA:205:G:O2'	36:DA:206:U:P	2.77	0.42
15:AO:54:ARG:HG2	15:AO:58:MET:HE2	2.02	0.42
1:CA:1042:G:C2'	1:CA:1043:C:H5'	2.50	0.42
36:BA:640:C:H2'	36:BA:641:C:C6	2.55	0.42
1:AA:1473:A:O2'	1:AA:1474:G:H5'	2.20	0.42
14:AN:60:SER:O	14:AN:61:TRP:HB3	2.20	0.42
1:CA:671:G:H2'	1:CA:672:U:O4'	2.19	0.42
51:DT:48:ILE:HD12	51:DT:48:ILE:N	2.35	0.42
11:AK:22:HIS:CD2	11:AK:22:HIS:C	2.93	0.42
2:AB:114:ARG:CD	2:AB:114:ARG:O	2.68	0.42
25:CY:580:MET:C	25:CY:580:MET:CE	2.89	0.41
36:DA:610:G:H2'	36:DA:611:C:C6	2.55	0.41
30:D4:9:LEU:HD13	30:D4:10:VAL:H	1.84	0.41
30:D4:25:TYR:N	30:D4:25:TYR:CD1	2.88	0.41
25:CY:120:THR:O	25:CY:124:GLN:HG3	2.20	0.41
25:CY:19:ALA:C	25:CY:121:VAL:HG11	2.41	0.41
25:AY:312:LEU:O	25:AY:328:ILE:HA	2.20	0.41
25:CY:201:ILE:HD12	25:CY:201:ILE:H	1.85	0.41
25:CY:510:VAL:CA	25:CY:570:GLY:HA3	2.21	0.41
53:BV:38:LEU:C	53:BV:38:LEU:HD23	2.40	0.41
36:DA:1156:A:C2'	36:DA:1157:G:OP1	2.68	0.41
3:AC:87:LEU:C	3:AC:89:GLU:N	2.73	0.41
36:DA:2584:U:C2'	36:DA:2585:U:C5'	2.85	0.41
41:DF:8:GLN:NE2	41:DF:9:ILE:N	2.68	0.41
36:DA:811:U:H6	47:DP:24:GLY:O	2.03	0.41
28:D2:16:LEU:O	28:D2:20:GLU:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2372:G:H1	36:DA:2381:C:H42	1.67	0.41
25:AY:607:ARG:HA	25:AY:645:ALA:O	2.20	0.41
36:DA:274:G:N3	36:DA:274:G:C2'	2.81	0.41
47:BP:112:LEU:HD11	47:BP:114:ILE:HG22	2.01	0.41
51:BT:72:VAL:HG12	51:BT:73:GLU:N	2.35	0.41
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.35	0.41
26:B0:29:GLN:OE1	36:BA:922:U:O2'	2.38	0.41
36:DA:2053:G:O2'	36:DA:2054:A:H5'	2.20	0.41
20:CT:48:LYS:O	20:CT:49:ALA:C	2.58	0.41
45:BN:131:GLN:NE2	45:BN:133:GLN:H	2.17	0.41
36:BA:2892:A:H62	36:BA:2893:G:N2	2.18	0.41
47:BP:35:HIS:O	47:BP:36:LYS:CB	2.68	0.41
13:AM:10:PRO:HG2	13:AM:11:ARG:H	1.85	0.41
27:D1:73:LEU:CD2	27:D1:94:LEU:HD22	2.49	0.41
27:D1:90:ILE:O	27:D1:94:LEU:HG	2.20	0.41
8:AH:104:ARG:HB3	8:AH:108:GLY:H	1.84	0.41
8:AH:83:ILE:HD12	8:AH:137:VAL:CG2	2.38	0.41
36:BA:1515:G:H2'	36:BA:1516:C:C6	2.55	0.41
42:BG:47:LYS:HG2	42:BG:81:LYS:HB2	2.01	0.41
9:AI:63:ILE:HG22	9:AI:64:THR:N	2.35	0.41
36:BA:363(E):U:O2'	36:BA:363(F):A:O4'	2.37	0.41
51:DT:129:ARG:CD	51:DT:129:ARG:C	2.88	0.41
37:BB:81:G:C2	37:BB:82:G:N7	2.88	0.41
25:AY:149:VAL:O	25:AY:152:THR:CG2	2.59	0.41
36:DA:2842:G:C6	36:DA:2876:G:C6	3.08	0.41
51:BT:83:ILE:CG1	51:BT:84:GLN:HG2	2.49	0.41
52:DU:57:PHE:O	52:DU:58:ARG:C	2.56	0.41
41:BF:52:LYS:HD3	41:BF:56:GLU:O	2.19	0.41
1:AA:1148:U:H2'	1:AA:1149:C:H5'	2.01	0.41
1:CA:1107:C:C4	1:CA:1108:G:C8	3.08	0.41
20:AT:45:GLN:CB	20:AT:91:LEU:HD22	2.48	0.41
48:BQ:34:LEU:HD11	48:BQ:129:THR:HB	2.02	0.41
39:DD:206:LEU:HD23	39:DD:206:LEU:HA	1.78	0.41
39:BD:10:THR:C	39:BD:11:PRO:O	2.58	0.41
30:B4:16:CYS:HB3	30:B4:20:ASN:O	2.20	0.41
1:AA:1239:A:H62	1:AA:1299:A:H62	1.68	0.41
5:CE:64:ARG:NH1	5:CE:64:ARG:CG	2.81	0.41
54:BW:17:VAL:C	54:BW:19:LEU:N	2.74	0.41
51:DT:76:PHE:HA	51:DT:77:PRO:HD3	1.88	0.41
2:CB:83:MET:SD	2:CB:234:PRO:HG3	2.60	0.41
37:DB:88:C:H2'	37:DB:89:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:B9:29:ASN:N	35:B9:29:ASN:ND2	2.66	0.41
36:BA:955:C:C2'	36:BA:956:G:H5'	2.50	0.41
36:BA:2754:U:H2'	36:BA:2756:U:OP1	2.20	0.41
39:BD:206:LEU:HA	39:BD:206:LEU:HD23	1.83	0.41
27:D1:57:GLU:HG2	27:D1:58:ILE:H	1.84	0.41
33:B7:24:THR:C	33:B7:26:GLY:H	2.23	0.41
36:DA:2395:C:C2	36:DA:2396:G:C8	3.07	0.41
8:AH:41:ARG:NH2	8:AH:123:GLU:OE1	2.49	0.41
56:BY:11:ASP:O	56:BY:27:VAL:HA	2.19	0.41
18:AR:37:VAL:O	18:AR:39:VAL:N	2.53	0.41
15:AO:64:ARG:CZ	15:AO:64:ARG:HB2	2.50	0.41
1:AA:276:G:C2'	1:AA:277:C:H5'	2.49	0.41
43:BH:89:ILE:O	43:BH:89:ILE:HG13	2.19	0.41
37:DB:113:G:N3	37:DB:113:G:H2'	2.35	0.41
4:CD:165:MET:O	4:CD:167:GLY:N	2.53	0.41
38:DC:203:GLU:C	38:DC:205:ALA:H	2.23	0.41
36:DA:529:A:C5	36:DA:2042:A:C2	3.08	0.41
50:DS:20:ARG:HH11	50:DS:20:ARG:HG2	1.85	0.41
53:BV:36:PRO:HA	53:BV:56:SER:HB2	2.02	0.41
9:CI:49:PRO:HD3	9:CI:101:PHE:CE1	2.55	0.41
36:BA:2126:A:H1'	36:BA:2127:G:O4'	2.20	0.41
47:BP:64:LYS:O	47:BP:64:LYS:HD3	2.19	0.41
47:BP:64:LYS:O	47:BP:66:GLY:N	2.44	0.41
25:CY:616:TYR:HE2	25:CY:664:GLN:NE2	2.14	0.41
49:DR:12:ARG:CG	49:DR:12:ARG:NH1	2.83	0.41
1:AA:179:A:H2'	1:AA:180:U:H6	1.82	0.41
16:CP:2:VAL:HG22	16:CP:64:ALA:HA	2.01	0.41
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.60	0.41
1:CA:584:G:H2'	1:CA:585:G:H8	1.85	0.41
11:CK:79:SER:CB	11:CK:106:LYS:HD2	2.50	0.41
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.20	0.41
46:DO:12:ASP:O	46:DO:14:THR:N	2.53	0.41
46:DO:86:ILE:N	46:DO:86:ILE:HD12	2.30	0.41
1:AA:1493:A:N6	25:AY:579:GLU:HG3	2.32	0.41
36:BA:1666:G:O2'	36:BA:1667:G:H5'	2.20	0.41
26:D0:48:GLY:HA3	26:D0:80:HIS:ND1	2.33	0.41
49:DR:52:ILE:HD13	49:DR:79:LEU:HD21	2.02	0.41
25:CY:621:ILE:HD12	36:DA:1095:A:H1'	2.01	0.41
1:CA:1305:G:H5''	21:CU:4:GLY:C	2.40	0.41
41:BF:50:SER:OG	41:BF:94:PRO:HD3	2.20	0.41
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:70:THR:HG22	43:BH:74:ASN:HD21	1.85	0.41
16:AP:1:MET:HE3	16:AP:65:GLN:HG3	2.01	0.41
8:CH:32:LYS:C	8:CH:34:GLU:N	2.73	0.41
52:DU:113:ALA:O	52:DU:115:ALA:N	2.53	0.41
52:DU:24:TYR:HE2	52:DU:39:LEU:CD2	2.33	0.41
36:DA:1526:G:H2'	36:DA:1527:G:C8	2.55	0.41
6:CF:35:ALA:O	6:CF:36:ARG:C	2.57	0.41
1:AA:807:A:C5	1:AA:808:C:C4	3.08	0.41
2:CB:69:LEU:HD13	2:CB:91:PRO:HB2	2.01	0.41
36:BA:2543:G:H2'	36:BA:2544:G:C8	2.55	0.41
53:DV:81:TYR:C	53:DV:82:ARG:HD2	2.40	0.41
41:DF:181:LEU:HD23	41:DF:202:PHE:HD1	1.86	0.41
13:AM:121:LYS:NZ	13:AM:121:LYS:HB2	2.35	0.41
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE1	2.55	0.41
38:BC:84:ILE:HG12	38:BC:96:GLY:O	2.20	0.41
36:DA:1587:A:H3'	36:DA:1588:C:C6	2.55	0.41
28:B2:46:GLN:OE1	36:BA:95:G:H4'	2.20	0.41
36:DA:565:C:H1'	36:DA:577:G:N2	2.35	0.41
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.35	0.41
1:CA:342:C:C5	1:CA:343:U:C5	3.07	0.41
36:BA:1308:A:N6	36:BA:1606:G:H1'	2.35	0.41
1:CA:429:U:H4'	1:CA:430:A:O5'	2.20	0.41
25:CY:448:GLN:HG3	25:CY:448:GLN:O	2.20	0.41
39:BD:96:HIS:CE1	39:BD:102:LYS:CE	3.03	0.41
36:BA:1396:U:O2	36:BA:1396:U:C2'	2.68	0.41
36:BA:2508:G:H2'	36:BA:2509:G:H8	1.85	0.41
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.19	0.41
36:BA:630:G:H4'	36:BA:640:C:H4'	2.02	0.41
51:DT:124:ASP:O	51:DT:127:ALA:HB3	2.19	0.41
36:BA:1836:C:O2'	36:BA:1837:C:H5'	2.20	0.41
55:BX:31:HIS:O	55:BX:32:PRO:C	2.57	0.41
36:DA:271(M):G:H2'	36:DA:271(N):U:H5''	2.02	0.41
6:AF:52:ILE:O	6:AF:52:ILE:HG22	2.19	0.41
36:BA:1333:C:H6	36:BA:1333:C:O5'	2.03	0.41
9:CI:25:LYS:HB2	9:CI:25:LYS:HE3	1.87	0.41
38:BC:21:TYR:N	38:BC:21:TYR:CD1	2.87	0.41
51:BT:48:ILE:HD12	51:BT:48:ILE:N	2.35	0.41
25:CY:500:GLN:HB2	25:CY:500:GLN:HE21	1.58	0.41
38:BC:121:MET:O	38:BC:122:GLY:C	2.58	0.41
42:DG:7:LEU:O	42:DG:8:LYS:C	2.58	0.41
25:AY:16:GLY:C	25:AY:17:ILE:HD12	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:21:ILE:O	25:AY:22:ASP:HB2	2.20	0.41
25:AY:71:THR:HB	25:AY:78:ARG:NH1	2.34	0.41
25:AY:661:SER:OG	36:BA:2660:A:N6	2.54	0.41
36:DA:320:A:H4'	36:DA:322:A:N7	2.34	0.41
25:CY:489:LYS:CD	25:CY:598:ASP:OD1	2.66	0.41
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.55	0.41
57:BZ:59:LEU:HD11	57:BZ:88:PHE:CD2	2.55	0.41
55:BX:35:THR:CB	55:BX:38:GLU:HB2	2.30	0.41
3:CC:73:PRO:HA	3:CC:76:VAL:HG22	2.01	0.41
40:BE:119:ARG:HD2	40:BE:120:TRP:CE2	2.55	0.41
25:AY:486:THR:CG2	25:AY:602:LEU:HG	2.50	0.41
30:B4:43:TYR:CD2	30:B4:44:THR:HG23	2.55	0.41
36:DA:186:G:H2'	36:DA:187:G:H8	1.85	0.41
36:DA:2579:C:C2'	36:DA:2580:U:H5'	2.50	0.41
36:DA:601:C:O2	36:DA:605:C:H4'	2.19	0.41
47:DP:120:ALA:HB3	47:DP:137:LYS:O	2.20	0.41
25:AY:166:LEU:N	25:AY:166:LEU:HD12	2.34	0.41
25:AY:219:VAL:C	25:AY:221:ALA:H	2.23	0.41
25:AY:216:LEU:HD21	25:AY:246:ILE:HD11	2.01	0.41
51:BT:102:ILE:O	51:BT:103:ARG:C	2.58	0.41
51:DT:28:VAL:O	51:DT:29:ARG:HD3	2.20	0.41
39:DD:136:ILE:N	39:DD:136:ILE:HD12	2.35	0.41
25:AY:453:GLY:CA	25:AY:458:HIS:HD2	2.21	0.41
27:B1:82:LEU:HD23	27:B1:90:ILE:HD12	2.03	0.41
20:AT:50:GLU:HB2	20:AT:100:ILE:CB	2.48	0.41
36:BA:797:C:OP1	41:BF:62:ARG:HG3	2.19	0.41
36:DA:154(A):C:H42	36:DA:172:C:N4	2.18	0.41
34:B8:13:ARG:HD2	47:BP:61:ARG:HH11	1.85	0.41
1:CA:1234:C:C2'	1:CA:1235:U:H5'	2.50	0.41
36:DA:665:C:H2'	36:DA:666:G:C8	2.55	0.41
51:BT:55:ASN:O	51:BT:55:ASN:ND2	2.53	0.41
40:DE:107:THR:HA	40:DE:163:GLU:O	2.19	0.41
1:CA:323:U:H5'	20:CT:23:ARG:HB2	2.02	0.41
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	2.02	0.41
1:AA:509:A:N3	1:AA:543:C:O2'	2.51	0.41
23:AW:31:G:C6	23:AW:32:C:C4	3.08	0.41
40:BE:31:CYS:HA	40:BE:32:PRO:HD3	1.77	0.41
37:DB:40:U:O2'	37:DB:43:C:C5	2.70	0.41
13:CM:121:LYS:NZ	13:CM:121:LYS:HB2	2.36	0.41
36:DA:918:A:H5''	37:DB:98:G:O2'	2.20	0.41
16:CP:20:VAL:HG21	16:CP:32:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.41	0.41
18:CR:51:LEU:HA	18:CR:52:PRO:HD3	1.79	0.41
36:BA:2561:A:H2'	36:BA:2562:U:O4'	2.20	0.41
2:AB:15:VAL:HG23	2:AB:16:HIS:CE1	2.55	0.41
39:BD:81:ALA:HA	39:BD:113:VAL:CG2	2.50	0.41
36:BA:2873:A:H4'	49:BR:8:ARG:NH2	2.35	0.41
57:DZ:117:LEU:CD1	57:DZ:174:VAL:HG22	2.50	0.41
41:DF:157:VAL:CG2	41:DF:157:VAL:O	2.68	0.41
4:CD:13:ARG:NH1	4:CD:40:PRO:HA	2.36	0.41
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.83	0.41
1:CA:779:C:H5''	11:CK:122:LYS:HG2	2.02	0.41
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.35	0.41
46:BO:11:ALA:O	46:BO:98:VAL:HA	2.20	0.41
36:DA:1219:G:C2	36:DA:1221:C:N4	2.88	0.41
1:AA:939:G:C5'	7:AG:102:ARG:HH22	2.32	0.41
9:AI:49:PRO:HD3	9:AI:101:PHE:CE1	2.54	0.41
37:DB:95:C:O2'	37:DB:96:U:H5'	2.20	0.41
35:B9:34:GLN:HB3	35:B9:35:ARG:H	1.53	0.41
36:BA:192:C:OP1	36:BA:2243:U:OP1	2.39	0.41
42:DG:130:ASN:OD1	42:DG:160:VAL:HA	2.19	0.41
36:BA:892:G:O2'	36:BA:893:C:H5'	2.20	0.41
1:CA:108:G:OP2	1:CA:109:A:C2	2.73	0.41
2:CB:75:LYS:HD3	2:CB:75:LYS:C	2.39	0.41
36:DA:654(S):G:O5'	36:DA:654(T):C:H5''	2.21	0.41
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.19	0.41
4:CD:61:LYS:NZ	4:CD:72:GLU:OE1	2.49	0.41
53:DV:34:GLU:HG2	53:DV:36:PRO:HD3	2.02	0.41
26:B0:81:VAL:HG12	26:B0:81:VAL:O	2.20	0.41
36:BA:2376:A:H2'	36:BA:2377:A:O4'	2.20	0.41
4:CD:159:ARG:O	4:CD:162:LEU:N	2.54	0.41
36:BA:1963:U:C2'	36:BA:1963:U:O2	2.65	0.41
36:DA:1754:C:P	51:DT:96:ARG:NH1	2.93	0.41
56:DY:88:LYS:C	56:DY:90:LEU:H	2.23	0.41
1:AA:1271:G:H2'	1:AA:1272:G:C8	2.54	0.41
36:DA:1185:C:C5'	36:DA:1186:G:P	3.09	0.41
36:BA:1680:U:O2'	36:BA:1681:G:H5'	2.20	0.41
22:AV:27:G:H2'	22:AV:28:G:H8	1.85	0.41
53:BV:64:HIS:HA	53:BV:92:THR:HA	2.01	0.41
36:BA:1034:G:C6	36:BA:1035:U:N3	2.88	0.41
3:CC:92:ALA:HB2	3:CC:99:VAL:CG2	2.49	0.41
36:BA:1059:G:H2'	36:BA:1060:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2028:U:H2'	36:DA:2029:G:O4'	2.20	0.41
39:BD:176:ARG:CZ	39:BD:176:ARG:HB3	2.51	0.41
4:AD:3:ARG:HG2	4:AD:118:ARG:NE	2.35	0.41
36:BA:2547:U:O2'	36:BA:2548:G:H5'	2.20	0.41
57:BZ:14:LYS:O	57:BZ:16:SER:N	2.54	0.41
40:BE:101:ARG:HD3	40:BE:171:GLU:HA	2.02	0.41
36:BA:2202:C:H2'	39:BD:151:LYS:NZ	2.35	0.41
36:DA:301:G:C6	36:DA:317:G:C6	3.08	0.41
36:DA:301:G:HO2'	36:DA:302:C:H6	1.65	0.41
36:DA:1316:U:O2'	36:DA:1317:A:H5'	2.19	0.41
8:CH:8:ASP:O	8:CH:12:ARG:HG3	2.19	0.41
10:CJ:29:ARG:C	10:CJ:31:GLY:H	2.23	0.41
36:DA:2543:G:H2'	36:DA:2544:G:C8	2.55	0.41
23:AW:9:G:C2	23:AW:45:G:C6	3.08	0.41
25:AY:604:PRO:HB2	25:AY:673:PHE:HE1	1.85	0.41
55:DX:40:LYS:HG3	55:DX:51:VAL:HG23	2.02	0.41
36:DA:1177:A:H4'	36:DA:1178:C:O5'	2.21	0.41
1:AA:452:A:O2'	1:AA:453:A:H8	2.02	0.41
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.20	0.41
1:AA:78:G:H1	1:AA:91:C:N4	2.18	0.41
55:BX:41:ASN:C	55:BX:43:VAL:H	2.23	0.41
36:BA:1836:C:C2'	36:BA:1837:C:H5'	2.50	0.41
35:B9:19:ARG:O	35:B9:20:HIS:HB2	2.20	0.41
38:BC:26:ALA:O	38:BC:27:ALA:C	2.56	0.41
36:BA:383:U:H2'	36:BA:385:C:H5	1.84	0.41
41:DF:118:ALA:O	41:DF:121:GLY:N	2.51	0.41
36:DA:1925:C:O2'	36:DA:1926:U:H5'	2.21	0.41
38:BC:109:MET:O	38:BC:111:PHE:N	2.45	0.41
15:CO:31:LEU:N	15:CO:31:LEU:CD2	2.82	0.41
10:CJ:28:ARG:NH1	10:CJ:28:ARG:HG2	2.35	0.41
12:CL:15:ARG:HD3	12:CL:15:ARG:HA	1.84	0.41
42:DG:57:ALA:O	42:DG:60:LEU:CB	2.69	0.41
42:DG:57:ALA:O	42:DG:68:PRO:HG2	2.20	0.41
57:DZ:16:SER:O	57:DZ:17:ALA:C	2.58	0.41
25:CY:327:PHE:CD1	25:CY:376:ALA:CB	3.03	0.41
25:AY:329:ARG:CA	25:AY:374:LEU:HG	2.47	0.41
25:AY:21:ILE:CG2	25:AY:88:VAL:HG13	2.49	0.41
25:CY:138:LYS:HE2	60:CY:702:GDP:C8	2.55	0.41
25:CY:204:GLU:O	25:CY:205:TYR:C	2.58	0.41
25:CY:206:LEU:CD1	25:CY:210:ARG:HH12	2.34	0.41
36:DA:1042:G:H2'	36:DA:1043:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2134:A:N3	36:BA:2134:A:H2'	2.34	0.41
56:BY:96:ILE:CD1	56:BY:99:CYS:SG	3.08	0.41
42:BG:59:GLU:C	42:BG:61:ALA:N	2.72	0.41
47:DP:28:GLY:C	47:DP:29:LYS:HD2	2.40	0.41
29:B3:6:VAL:HG12	29:B3:56:VAL:HA	2.02	0.41
37:DB:75:G:H1'	57:DZ:27:VAL:CG1	2.51	0.41
32:D6:54:ILE:HD11	36:DA:2419:U:O2'	2.20	0.41
13:AM:68:GLY:O	13:AM:70:LEU:N	2.42	0.41
28:D2:7:ARG:HG3	28:D2:7:ARG:HH11	1.86	0.41
15:CO:25:THR:O	15:CO:26:GLU:C	2.58	0.41
36:BA:1141:U:H6	45:BN:63:THR:CG2	2.33	0.41
36:BA:1144:G:C6	36:BA:1145:C:C4	3.08	0.41
10:CJ:50:ILE:CD1	10:CJ:50:ILE:N	2.70	0.41
31:D5:46:CYS:SG	31:D5:47:PRO:CD	3.05	0.41
56:BY:62:GLU:CD	56:BY:63:LYS:N	2.74	0.41
3:AC:155:GLY:O	3:AC:196:LEU:HD13	2.20	0.41
25:AY:406:GLU:CB	25:AY:407:PRO:HD2	2.37	0.41
36:DA:2722:G:O2'	49:DR:5:LYS:HB2	2.21	0.41
49:BR:52:ILE:HD13	49:BR:79:LEU:HD21	2.02	0.41
36:DA:1203:G:O2'	36:DA:1242:A:N6	2.53	0.41
41:BF:65:TRP:HA	41:BF:66:PRO:HD3	1.90	0.41
20:CT:100:ILE:HG13	20:CT:101:GLY:H	1.85	0.41
45:DN:133:GLN:CG	45:DN:134:ARG:N	2.78	0.41
36:DA:856:C:H2'	36:DA:857:C:C6	2.55	0.41
1:AA:254:G:HO2'	1:AA:255:G:H5'	1.85	0.41
36:DA:2809:A:OP2	36:DA:2891:G:N1	2.38	0.41
36:BA:2631:G:H2'	36:BA:2632:A:O4'	2.20	0.41
1:AA:347:G:C2	1:AA:348:G:C8	3.08	0.41
46:BO:104:ARG:CZ	51:BT:33:LYS:HE3	2.50	0.41
5:CE:147:ASP:HA	5:CE:150:ARG:HH12	1.85	0.41
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.24	0.41
40:BE:47:VAL:CG1	40:BE:48:GLN:H	2.19	0.41
40:BE:68:ALA:C	40:BE:70:ALA:N	2.74	0.41
40:BE:51:PHE:N	40:BE:74:PRO:HG3	2.34	0.41
2:AB:19:HIS:O	2:AB:20:GLU:O	2.39	0.41
9:CI:60:ASP:O	9:CI:61:ALA:O	2.38	0.41
42:BG:42:GLY:C	42:BG:43:LEU:HD22	2.41	0.41
9:AI:23:ASN:OD1	9:AI:24:GLY:N	2.53	0.41
40:BE:27:LEU:HD12	40:BE:180:ASN:O	2.19	0.41
2:AB:12:GLU:OE1	2:AB:12:GLU:N	2.41	0.41
1:AA:185:A:N3	20:AT:81:LYS:NZ	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:187:C:O2'	20:AT:89:ARG:HD3	2.20	0.41
36:BA:408:G:O2'	36:BA:409:C:H5'	2.20	0.41
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.35	0.41
36:BA:2470:G:P	48:BQ:56:ARG:HH12	2.43	0.41
39:BD:261:LYS:NZ	39:BD:263:ARG:HH12	2.18	0.41
31:D5:19:ARG:HA	36:DA:2046:G:H5''	2.02	0.41
13:AM:56:LEU:O	13:AM:59:TYR:N	2.39	0.41
36:DA:655:A:H1'	36:DA:656:G:C1'	2.50	0.41
6:CF:43:LEU:HD11	18:CR:35:ARG:NH1	2.34	0.41
19:AS:40:ILE:HG21	19:AS:66:MET:O	2.20	0.41
36:DA:688:U:H4'	36:DA:1780:A:H2	1.79	0.41
1:CA:707:C:O2'	1:CA:708:C:H5'	2.20	0.41
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.35	0.41
11:CK:95:ILE:O	11:CK:98:LEU:N	2.53	0.41
50:BS:33:LYS:HG2	50:BS:34:HIS:CD2	2.55	0.41
36:DA:1669:A:O3'	36:DA:2549:G:H5'	2.21	0.41
50:DS:77:ALA:O	50:DS:80:LEU:N	2.53	0.41
49:DR:41:ALA:O	49:DR:43:GLU:N	2.54	0.41
36:BA:657:U:H2'	36:BA:658:C:C5	2.55	0.41
1:CA:243:A:C2	1:CA:245:C:C2	3.08	0.41
36:DA:654(S):G:H3'	36:DA:654(T):C:H4'	2.01	0.41
25:CY:339:SER:HB2	25:CY:352:VAL:HG13	2.01	0.41
27:D1:83:GLU:HB2	27:D1:84:GLY:H	1.75	0.41
25:AY:578:SER:HB3	25:AY:581:ALA:H	1.85	0.41
43:DH:91:GLY:HA2	43:DH:160:LYS:HG2	2.01	0.41
36:DA:1680:U:O2'	36:DA:1681:G:H5'	2.20	0.41
26:D0:49:LYS:H	26:D0:49:LYS:HG3	1.67	0.41
48:DQ:34:LEU:HD11	48:DQ:129:THR:HB	2.01	0.41
27:D1:8:SER:HB3	27:D1:66:HIS:CD2	2.54	0.41
47:BP:110:TYR:O	47:BP:111:ARG:O	2.39	0.41
43:DH:136:ILE:CD1	43:DH:136:ILE:N	2.83	0.41
42:DG:170:ARG:HE	42:DG:180:PHE:HD2	1.62	0.41
36:DA:372:G:O2'	36:DA:400:G:O6	2.29	0.41
40:BE:108:SER:O	40:BE:162:ALA:N	2.53	0.41
1:AA:929:G:O2'	1:AA:930:C:H5'	2.20	0.41
4:AD:3:ARG:CG	4:AD:118:ARG:HE	2.33	0.41
1:CA:47:C:H5	1:CA:365:U:H3'	1.84	0.41
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.50	0.41
38:DC:84:ILE:HG12	38:DC:96:GLY:O	2.21	0.41
38:DC:100:ILE:O	38:DC:102:GLN:N	2.53	0.41
36:BA:324:A:OP2	36:BA:1205:U:N3	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:69:LEU:HD13	2:AB:91:PRO:HB2	2.02	0.41
14:CN:21:TYR:HE2	14:CN:23:ARG:NH2	2.18	0.41
8:AH:35:ILE:HG22	8:AH:39:LEU:CD2	2.50	0.41
25:CY:661:SER:O	25:CY:663:THR:N	2.52	0.41
39:DD:268:ARG:CZ	39:DD:268:ARG:HB3	2.50	0.41
1:CA:155:C:H2'	1:CA:156:G:C8	2.56	0.41
20:AT:8:ARG:HA	20:AT:8:ARG:HD3	1.82	0.41
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.20	0.41
36:DA:129:C:H2'	36:DA:130:C:C6	2.55	0.41
36:DA:319:C:OP1	41:DF:137:LYS:NZ	2.50	0.41
36:DA:2086:U:H2'	36:DA:2087:G:C8	2.55	0.41
1:AA:897:C:O2'	1:AA:898:G:H5'	2.19	0.41
1:AA:675:A:O2'	1:AA:676:A:H5'	2.20	0.41
11:CK:23:ALA:O	11:CK:86:GLY:HA3	2.21	0.41
51:DT:19:LEU:HA	51:DT:20:PRO:HD3	1.89	0.41
51:DT:54:ARG:HG2	51:DT:54:ARG:HH11	1.85	0.41
4:CD:202:LEU:HA	4:CD:202:LEU:HD23	1.81	0.41
38:BC:3:LYS:HD3	38:BC:3:LYS:O	2.20	0.41
16:AP:57:ARG:O	16:AP:58:TYR:C	2.59	0.41
42:DG:58:GLN:O	42:DG:61:ALA:HB3	2.21	0.41
42:DG:95:ARG:O	42:DG:96:ARG:O	2.39	0.41
25:CY:92:ILE:CG2	25:CY:93:GLU:H	2.34	0.41
41:BF:168:ARG:O	41:BF:170:LEU:N	2.53	0.41
1:CA:1368:G:H5'	9:CI:112:LYS:O	2.21	0.41
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.20	0.41
25:CY:510:VAL:HG12	25:CY:511:LYS:H	1.85	0.41
36:DA:1044:G:O2'	36:DA:1045:A:H5''	2.20	0.41
1:CA:815:A:N6	1:CA:1509:C:HI'	2.34	0.41
57:BZ:61:LEU:C	57:BZ:63:ASP:N	2.73	0.41
57:BZ:63:ASP:OD2	57:BZ:65:GLN:NE2	2.54	0.41
29:D3:17:LYS:HA	29:D3:17:LYS:HD3	1.77	0.41
42:BG:97:ASP:O	42:BG:98:ARG:C	2.59	0.41
1:AA:1516:G:N1	1:AA:1519:A:OP2	2.54	0.41
29:B3:54:VAL:CG1	29:B3:55:ARG:N	2.83	0.41
32:D6:28:ARG:NH1	32:D6:28:ARG:CB	2.65	0.41
34:B8:33:ASN:O	34:B8:34:TRP:CB	2.68	0.41
15:AO:74:ASP:O	15:AO:76:GLU:N	2.54	0.41
56:BY:15:VAL:HG12	56:BY:20:TYR:O	2.21	0.41
39:BD:132:PRO:O	39:BD:136:ILE:HD13	2.20	0.41
25:CY:227:ILE:HD13	25:CY:242:LEU:HD23	2.03	0.41
36:DA:1278:A:H4'	49:DR:34:ILE:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:45:LYS:HG2	36:DA:2371:G:H5''	2.03	0.41
25:AY:609:GLU:HB2	25:AY:670:VAL:CG2	2.49	0.41
36:DA:634:C:H2'	36:DA:635:C:O4'	2.20	0.41
36:DA:637:A:C6	36:DA:652:C:H4'	2.55	0.41
36:DA:2688:U:C5	36:DA:2720:U:OP1	2.73	0.41
36:DA:2724:C:OP1	40:DE:118:LYS:HE3	2.21	0.41
25:CY:669:PHE:HE2	25:CY:671:MET:HB2	1.85	0.41
36:BA:949:C:H2'	36:BA:950:G:C8	2.54	0.41
36:BA:651:G:H2'	36:BA:652:C:H5'	2.01	0.41
36:BA:624:C:H41	47:BP:107:LYS:NZ	2.19	0.41
47:BP:114:ILE:HG23	47:BP:130:PHE:CD1	2.55	0.41
47:BP:96:THR:O	47:BP:97:PRO:C	2.58	0.41
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.21	0.41
51:BT:90:GLN:HG2	51:BT:120:ARG:NH2	2.35	0.41
27:B1:90:ILE:O	27:B1:93:GLU:N	2.53	0.41
36:BA:2016:U:O2'	36:BA:2017:U:H5'	2.20	0.41
36:BA:1814:G:H2'	36:BA:1815:A:C8	2.55	0.41
50:DS:24:LEU:O	50:DS:85:VAL:HB	2.20	0.41
25:AY:566:THR:O	25:AY:567:LEU:C	2.58	0.41
36:DA:832:G:O2'	47:DP:52:GLU:HB3	2.20	0.41
36:DA:1484:G:O6	36:DA:1506:C:N3	2.53	0.41
51:BT:16:ARG:HG3	51:BT:16:ARG:HH11	1.85	0.41
47:DP:16:ARG:NH2	47:DP:18:ARG:CG	2.83	0.41
48:DQ:137:TYR:HD1	48:DQ:137:TYR:H	1.67	0.41
31:D5:48:GLU:O	31:D5:49:CYS:HB3	2.21	0.41
38:BC:156:GLU:O	38:BC:159:ALA:HB3	2.19	0.41
1:AA:955:U:O2'	1:AA:956:U:H5'	2.20	0.41
13:AM:91:ARG:CD	13:AM:97:PRO:O	2.65	0.41
36:BA:1541:G:O2'	36:BA:1542:A:H5''	2.21	0.41
36:DA:2531:A:OP1	43:DH:177:GLY:N	2.53	0.41
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.41	0.41
23:AW:53:G:C2	23:AW:62:C:N3	2.88	0.41
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	2.03	0.41
20:AT:81:LYS:O	20:AT:83:ARG:N	2.52	0.41
41:DF:152:GLU:O	41:DF:154:VAL:HG23	2.20	0.41
2:AB:107:THR:HA	2:AB:110:GLN:NE2	2.23	0.41
36:BA:9:U:H5	36:BA:2629:A:N6	2.06	0.41
19:CS:41:VAL:CG2	19:CS:41:VAL:O	2.68	0.41
43:BH:86:GLU:HB2	43:BH:132:ARG:HB3	2.02	0.41
52:BU:59:ARG:CG	52:BU:59:ARG:HH11	2.30	0.41
25:AY:276:VAL:HB	25:AY:277:VAL:H	1.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1331:A:C2'	36:DA:1332:G:H5''	2.50	0.41
25:AY:65:ILE:H	25:AY:65:ILE:CD1	2.34	0.41
1:AA:1299:A:C2	1:AA:1301:U:N3	2.88	0.41
19:CS:25:LYS:O	19:CS:26:GLY:C	2.59	0.41
1:CA:390:C:H2'	1:CA:391:G:H8	1.82	0.41
37:DB:87:G:N2	37:DB:89:G:H5''	2.35	0.41
4:AD:165:MET:O	4:AD:167:GLY:N	2.53	0.41
43:DH:89:ILE:O	43:DH:89:ILE:HG13	2.20	0.41
36:BA:1677:A:H2'	36:BA:1678:G:H8	1.84	0.41
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.35	0.41
36:DA:1851:U:H2'	36:DA:1852:C:O4'	2.20	0.41
36:BA:742:G:H2'	36:BA:743:G:H8	1.84	0.41
36:DA:1123:C:H2'	36:DA:1124:C:C6	2.46	0.41
10:AJ:42:THR:HG23	10:AJ:67:THR:C	2.41	0.41
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.81	0.41
10:CJ:42:THR:HG23	10:CJ:67:THR:C	2.40	0.41
36:BA:271(D):G:C2	36:BA:271(E):U:C2	3.08	0.41
47:BP:71:VAL:C	47:BP:73:GLY:N	2.72	0.41
1:AA:1259:C:C5	1:AA:1260:C:O2	2.73	0.41
1:CA:949:A:C2	1:CA:1233:G:C4	3.08	0.41
19:CS:6:LYS:CD	19:CS:6:LYS:N	2.81	0.41
36:BA:1653:G:O6	49:BR:11:ASN:HB2	2.20	0.41
36:DA:2348:U:C3'	36:DA:2349:G:C5'	2.98	0.41
53:BV:64:HIS:ND1	53:BV:92:THR:CG2	2.83	0.41
36:DA:2454:G:C2'	36:DA:2455:G:H5'	2.51	0.41
57:BZ:107:THR:CG2	57:BZ:111:VAL:HB	2.49	0.41
5:CE:9:LYS:NZ	5:CE:111:GLU:OE1	2.52	0.41
40:BE:196:VAL:C	40:BE:197:ILE:HG22	2.41	0.41
40:BE:26:ILE:HD12	40:BE:198:VAL:HG21	2.02	0.41
1:CA:66:G:H4'	1:CA:173:U:H5	1.81	0.41
46:DO:10:VAL:HG23	46:DO:10:VAL:O	2.20	0.41
6:AF:8:ILE:CG2	6:AF:85:VAL:HG13	2.48	0.41
1:AA:928:G:O2'	1:AA:929:G:H5'	2.19	0.41
53:DV:2:PHE:O	53:DV:3:ALA:CB	2.67	0.41
39:DD:28:GLU:OE1	39:DD:29:PRO:HD2	2.21	0.41
36:BA:342:G:O2'	36:BA:343:C:H5'	2.20	0.41
39:BD:249:PRO:HG2	39:BD:250:TRP:CE3	2.55	0.41
36:BA:826:U:H5''	36:BA:2428:G:O3'	2.19	0.41
6:AF:14:LEU:HA	6:AF:14:LEU:HD23	1.90	0.41
1:CA:892:A:H2'	1:CA:893:C:C6	2.55	0.41
36:DA:1767:C:C2'	36:DA:1768:U:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:21:TYR:CE2	14:CN:23:ARG:NH2	2.89	0.41
48:DQ:58:PHE:CD1	48:DQ:58:PHE:O	2.72	0.41
1:AA:1134:G:H2'	1:AA:1135:U:H5'	2.02	0.41
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.20	0.41
41:DF:135:LYS:HB3	41:DF:138:GLU:HB2	2.02	0.41
38:DC:140:ASN:OD1	38:DC:141:PRO:HD2	2.20	0.41
1:AA:151:A:C2'	1:AA:152:A:H5'	2.50	0.41
16:AP:75:ARG:O	16:AP:78:GLY:N	2.50	0.41
29:D3:50:VAL:O	29:D3:51:ALA:C	2.59	0.41
36:BA:2485:G:C2	36:BA:2486:G:C8	3.08	0.41
1:AA:688:G:H5'	11:AK:47:VAL:HA	2.03	0.41
36:DA:455:C:N3	36:DA:472:A:H2'	2.36	0.41
1:AA:222:U:H2'	1:AA:223:U:C6	2.55	0.41
52:DU:8:VAL:CG2	52:DU:12:ARG:HE	2.32	0.41
36:DA:1744:C:C2'	36:DA:1745:C:H5'	2.50	0.41
36:BA:867:C:O5'	36:BA:867:C:H6	2.04	0.41
36:BA:2072:G:C6	36:BA:2073:C:C4	3.08	0.41
18:AR:25:THR:C	18:AR:26:LEU:HD23	2.40	0.41
36:DA:411:G:OP2	36:DA:2407:G:P	2.79	0.41
24:AX:11:A:C5'	24:AX:12:A:H5'	2.51	0.41
36:BA:610:G:H2'	36:BA:611:C:C6	2.56	0.41
55:BX:27:THR:CB	55:BX:80:ILE:HG22	2.49	0.41
25:CY:456:GLU:O	25:CY:459:LEU:HD12	2.21	0.41
36:BA:2659:G:H2'	36:BA:2661:G:OP2	2.20	0.41
25:CY:210:ARG:NH1	25:CY:210:ARG:CG	2.80	0.41
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.21	0.41
36:DA:2306:C:C5	36:DA:2307:G:O2'	2.71	0.41
36:DA:978:G:N1	36:DA:985:C:N4	2.59	0.41
3:AC:52:LEU:HD12	3:AC:55:VAL:HG22	2.03	0.41
57:BZ:119:GLU:C	57:BZ:121:HIS:N	2.73	0.41
10:CJ:78:ASN:HB2	10:CJ:81:THR:CG2	2.49	0.41
36:BA:2821:A:OP2	36:BA:2822:G:OP2	2.38	0.41
1:AA:1489:G:H2'	1:AA:1490:C:C5'	2.29	0.41
36:DA:1451:C:H4'	36:DA:1452:A:C8	2.56	0.41
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.66	0.41
3:AC:154:SER:CB	3:AC:197:GLY:H	2.34	0.41
39:BD:35:LYS:CD	39:BD:35:LYS:C	2.79	0.41
25:CY:647:VAL:HG21	25:CY:652:MET:SD	2.61	0.41
25:AY:162:VAL:O	25:AY:164:MET:N	2.54	0.41
25:AY:236:GLU:HG3	25:AY:236:GLU:O	2.18	0.41
47:BP:98:GLU:H	47:BP:101:VAL:HG13	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DT:65:LYS:CE	51:DT:66:VAL:N	2.73	0.41
1:CA:1442:G:H8	1:CA:1442:G:H3'	1.86	0.41
41:BF:31:HIS:O	41:BF:34:TRP:N	2.53	0.41
39:DD:61:LEU:HD13	39:DD:61:LEU:HA	1.80	0.41
20:AT:50:GLU:HB2	20:AT:100:ILE:CG2	2.51	0.41
36:BA:2442:C:H2'	36:BA:2443:C:H6	1.85	0.41
28:D2:61:LEU:O	28:D2:64:LEU:N	2.53	0.41
28:D2:63:VAL:C	28:D2:65:ASN:N	2.73	0.41
34:B8:54:GLU:HG3	34:B8:54:GLU:H	1.54	0.41
36:BA:252:G:H2'	36:BA:253:C:H6	1.86	0.41
39:DD:27:THR:CG2	39:DD:27:THR:O	2.68	0.41
36:DA:1374:G:H2'	36:DA:1375:C:C6	2.56	0.41
47:DP:58:THR:O	47:DP:58:THR:HG22	2.20	0.41
25:AY:9:LEU:HD13	25:AY:284:LEU:HD13	2.02	0.41
51:BT:129:ARG:CD	51:BT:129:ARG:C	2.88	0.41
47:DP:39:LYS:HE2	47:DP:40:SER:N	2.20	0.41
1:AA:129(A):G:H5''	1:AA:129(A):G:H8	1.86	0.41
45:BN:17:ASP:CG	45:BN:56:ASN:HB3	2.40	0.41
1:CA:1054:C:O2	1:CA:1054:C:H3'	2.21	0.41
1:AA:1256:A:C2	1:AA:1277:C:C5	3.08	0.41
37:DB:81:G:H2'	37:DB:82:G:H5'	2.03	0.41
37:DB:81:G:C2	37:DB:82:G:N7	2.88	0.41
39:DD:44:ASN:OD1	39:DD:44:ASN:N	2.54	0.41
1:CA:703:G:O2'	1:CA:704:A:OP2	2.39	0.41
39:BD:52:ARG:HG3	39:BD:52:ARG:H	1.70	0.41
43:DH:120:GLY:C	43:DH:121:ILE:HG13	2.41	0.41
1:CA:930:C:C4	1:CA:931:C:C5	3.09	0.41
51:DT:3:ARG:C	51:DT:5:ALA:N	2.71	0.41
12:CL:47:LYS:HD2	12:CL:48:PRO:N	2.35	0.41
36:DA:740:U:H5''	36:DA:1784:A:H3'	2.01	0.41
41:BF:157:VAL:CG2	41:BF:157:VAL:O	2.69	0.41
36:BA:2668:G:C2'	36:BA:2669:G:H5'	2.50	0.41
36:DA:882:G:H22	36:DA:894:C:H42	1.69	0.41
36:DA:1583:A:H4'	36:DA:1586:A:C4	2.55	0.41
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	2.03	0.41
1:AA:376:G:N3	1:AA:389:A:C2	2.89	0.41
36:BA:903:C:O2'	36:BA:904:C:H5''	2.19	0.41
25:CY:358:MET:CE	25:CY:363:ARG:HG2	2.50	0.41
36:BA:729:G:O2'	36:BA:763:G:H4'	2.21	0.41
36:BA:654(S):G:H3'	36:BA:654(T):C:H4'	2.02	0.41
48:BQ:18:LYS:HD2	48:BQ:18:LYS:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:89:ILE:HG22	43:DH:162:ILE:HG22	2.02	0.41
1:AA:707:C:O2'	1:AA:708:C:H5'	2.19	0.41
25:AY:192:LEU:HD12	25:AY:194:THR:HG23	2.02	0.41
1:AA:986:A:H2'	1:AA:987:G:O4'	2.20	0.41
36:DA:848:G:H5'	36:DA:849:A:OP2	2.20	0.41
31:B5:42:PRO:O	31:B5:43:HIS:HB2	2.20	0.41
47:DP:92:GLU:HG3	47:DP:93:GLY:N	2.28	0.41
6:AF:4:TYR:CE1	6:AF:92:LYS:HD2	2.56	0.41
25:CY:335:LEU:HD11	25:CY:352:VAL:HG11	2.02	0.41
1:CA:1157:A:H1'	1:CA:1181:G:H21	1.84	0.41
36:DA:695:G:OP1	36:DA:1380:G:H4'	2.21	0.41
13:AM:34:LEU:HD13	13:AM:41:PRO:HB3	2.03	0.41
1:CA:1258:G:C6	1:CA:1259:C:N4	2.88	0.41
3:CC:138:VAL:O	3:CC:139:GLN:C	2.58	0.41
27:D1:65:SER:OG	27:D1:66:HIS:ND1	2.43	0.41
36:BA:1215:G:O2'	36:BA:1216:G:H5'	2.20	0.41
25:CY:416:LYS:HG2	25:CY:417:THR:N	2.34	0.41
25:CY:134:ALA:CB	25:CY:258:VAL:HG22	2.50	0.41
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.48	0.41
47:BP:102:ARG:O	47:BP:102:ARG:HG2	2.20	0.41
39:BD:249:PRO:HG2	39:BD:250:TRP:CD2	2.55	0.41
16:CP:71:ARG:HA	16:CP:74:LEU:HB2	2.01	0.41
38:BC:197:LEU:O	38:BC:199:ALA:N	2.53	0.41
36:BA:301:G:C6	36:BA:317:G:C6	3.08	0.41
10:AJ:29:ARG:C	10:AJ:31:GLY:H	2.23	0.41
30:D4:55:ARG:HE	30:D4:55:ARG:H	1.68	0.41
7:AG:111:ARG:HD2	7:AG:123:GLU:HB2	2.01	0.41
38:DC:197:LEU:O	38:DC:199:ALA:N	2.53	0.41
36:DA:2543:G:H2'	36:DA:2544:G:O4'	2.20	0.41
53:BV:54:GLY:O	53:BV:55:ALA:HB2	2.21	0.41
36:BA:311:A:H5'	36:BA:332:A:C2	2.55	0.41
25:AY:368:GLU:C	25:AY:369:LEU:HD12	2.41	0.41
1:AA:657:G:H4'	15:AO:28:GLN:HG2	2.02	0.41
45:DN:76:SER:O	45:DN:78:TYR:N	2.53	0.41
1:CA:1338:G:C6	1:CA:1339:A:C6	3.08	0.41
1:CA:360:A:O2'	1:CA:361:G:H5'	2.21	0.41
39:DD:4:LYS:NZ	39:DD:21:PHE:H	2.18	0.41
25:AY:309:LEU:O	25:AY:390:VAL:HA	2.20	0.41
2:AB:231:GLU:HB2	2:AB:232:PRO:CD	2.51	0.41
1:AA:304:U:O2'	1:AA:305:G:H5'	2.20	0.41
54:BW:12:ILE:HG13	54:BW:42:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1180:A:OP1	9:CI:103:THR:HG23	2.20	0.41
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.20	0.41
27:D1:11:ARG:HB2	27:D1:12:PRO:HD2	2.03	0.41
36:BA:589:C:O2'	36:BA:590:A:H5'	2.20	0.41
30:B4:15:ILE:HB	30:B4:32:TYR:HA	2.03	0.41
36:DA:2767:C:H2'	36:DA:2768:C:C6	2.56	0.41
36:BA:1593:G:H3'	36:BA:1594:G:H8	1.85	0.41
36:BA:85:G:N3	36:BA:103:A:C2	2.88	0.41
5:CE:53:LEU:HD23	5:CE:53:LEU:N	2.34	0.41
36:DA:2322:A:O2'	36:DA:2323:G:H5'	2.21	0.41
27:D1:13:ILE:HG12	27:D1:42:GLN:HB2	2.01	0.41
36:DA:859:G:N2	36:DA:2268:A:C2	2.88	0.41
48:BQ:63:LYS:HD2	57:BZ:175:VAL:HG21	2.03	0.41
24:CX:12:A:N3	24:CX:12:A:C2'	2.83	0.41
42:DG:133:LEU:HD11	42:DG:157:ILE:HB	2.01	0.41
42:DG:84:LYS:O	42:DG:85:GLY:C	2.58	0.41
42:DG:40:ASN:ND2	42:DG:90:LEU:O	2.52	0.41
25:CY:18:ALA:HA	25:CY:85:PRO:CB	2.51	0.41
36:DA:322:A:OP2	41:DF:169:ASN:HB2	2.20	0.41
25:CY:139:MET:HE2	25:CY:167:PRO:HB3	2.03	0.41
25:CY:191:ASP:C	25:CY:193:GLY:N	2.72	0.41
25:CY:200:PRO:O	25:CY:201:ILE:C	2.59	0.41
25:CY:539:ILE:C	25:CY:542:VAL:HG12	2.41	0.41
36:BA:1044:G:O2'	36:BA:1045:A:H5''	2.21	0.41
29:D3:31:LEU:HD22	29:D3:32:GLN:N	2.36	0.41
36:BA:664:C:H4'	36:BA:941:A:OP1	2.20	0.41
36:BA:1146:C:H2'	36:BA:1147:C:H5'	2.02	0.41
7:AG:23:VAL:CG1	7:AG:43:PHE:CE2	3.01	0.41
36:DA:2580:U:H4'	40:DE:130:GLY:CA	2.50	0.41
36:DA:1018:C:O2'	36:DA:1019:U:H5'	2.21	0.41
45:DN:23:LEU:C	45:DN:25:ARG:H	2.23	0.41
39:BD:35:LYS:NZ	39:BD:36:PRO:CD	2.68	0.41
47:DP:102:ARG:HG2	47:DP:102:ARG:O	2.20	0.41
3:CC:94:LEU:O	3:CC:94:LEU:HD12	2.19	0.41
25:CY:603:GLU:HG2	25:CY:677:GLN:O	2.20	0.41
25:AY:230:LYS:O	25:AY:235:GLU:O	2.39	0.41
25:AY:236:GLU:HA	25:AY:237:PRO:HD3	1.95	0.41
46:DO:77:ILE:HD11	51:DT:72:VAL:HG11	2.03	0.41
36:BA:483:A:H4'	56:BY:49:VAL:HA	2.03	0.41
36:BA:1374:G:H2'	36:BA:1375:C:C6	2.55	0.41
1:CA:1001(A):G:H2'	1:CA:1002:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:512:G:O2'	36:DA:513:A:C8	2.72	0.41
17:CQ:44:ALA:HA	17:CQ:71:PHE:O	2.21	0.41
47:BP:24:GLY:HA3	47:BP:33:ARG:NH1	2.36	0.41
39:BD:85:ASP:HB2	39:BD:92:ILE:HG23	2.01	0.41
23:AW:31:G:H2'	23:AW:32:C:C6	2.55	0.41
40:DE:51:PHE:O	40:DE:52:LEU:C	2.58	0.41
36:BA:1479:G:O2'	36:BA:1480:G:H5'	2.20	0.41
42:BG:75:LYS:O	42:BG:76:SER:OG	2.25	0.41
36:BA:2138:C:O2'	36:BA:2139:C:H5'	2.20	0.41
13:CM:91:ARG:HH21	19:CS:81:ARG:NH2	2.19	0.41
36:BA:1541:G:H4'	36:BA:1542:A:O4'	2.20	0.41
2:CB:11:LEU:HB3	2:CB:213:LEU:HD11	2.02	0.41
36:BA:614:U:H2'	36:BA:614(A):U:O4'	2.20	0.41
23:AW:49:G:C6	23:AW:50:U:C4	3.08	0.41
37:BB:81:G:H2'	37:BB:82:G:H5'	2.03	0.41
36:BA:1107:G:H2'	36:BA:1108:U:H6	1.86	0.41
26:B0:40:GLN:HE22	26:B0:43:THR:CA	2.34	0.41
36:DA:225:A:N6	36:DA:226:G:C2	2.88	0.41
39:BD:154:LYS:C	39:BD:155:LEU:HD12	2.41	0.41
36:DA:937:U:O2'	36:DA:938:G:H5'	2.20	0.41
36:BA:6:A:HO2'	45:BN:130:HIS:HB2	1.82	0.41
4:CD:30:LYS:O	4:CD:32:ALA:N	2.52	0.41
57:BZ:115:GLY:HA2	57:BZ:177:PRO:CG	2.49	0.41
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.51	0.41
48:BQ:59:ARG:CA	57:BZ:180:VAL:HG23	2.45	0.41
36:BA:727:A:H2	39:BD:9:TYR:CD2	2.38	0.41
4:CD:129:ASN:ND2	4:CD:145:GLU:N	2.64	0.41
19:AS:33:THR:OG1	19:AS:34:TRP:N	2.54	0.41
38:BC:127:LYS:O	38:BC:128:LEU:CD2	2.68	0.41
16:CP:67:THR:H	16:CP:70:ALA:CB	2.33	0.41
9:AI:46:ALA:HB3	9:AI:47:LEU:HD12	2.03	0.41
56:DY:2:ARG:C	56:DY:4:LYS:N	2.74	0.41
36:BA:871:U:H4'	48:BQ:69:PHE:CE2	2.55	0.41
45:BN:34:LEU:O	45:BN:49:GLY:HA3	2.21	0.41
36:DA:2118:U:OP1	36:DA:2148:G:H4'	2.21	0.41
36:BA:729:G:C4	36:BA:1775:U:C2	3.07	0.41
12:AL:23:LYS:HE3	12:AL:89:ARG:HE	1.85	0.41
2:CB:118:LEU:CB	2:CB:142:LEU:HD12	2.47	0.41
1:CA:500:G:N2	1:CA:546:G:H1'	2.36	0.41
36:DA:1721:G:O6	36:DA:1739:U:H5'	2.18	0.41
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:56:A:C2	36:BA:57:C:C2	3.08	0.41
36:DA:1186:G:H2'	36:DA:1187:G:C5'	2.51	0.41
48:BQ:75:THR:CG2	48:BQ:76:LYS:N	2.81	0.41
3:AC:182:ILE:HA	3:AC:202:ILE:O	2.20	0.41
36:DA:2115:G:H5''	36:DA:2116:G:OP2	2.20	0.41
1:CA:1010:G:H2'	1:CA:1011:G:H8	1.86	0.41
29:B3:43:ILE:O	29:B3:47:VAL:HG23	2.21	0.41
56:DY:84:ARG:HB2	56:DY:97:ARG:HB2	2.02	0.41
48:BQ:110:THR:CG2	48:BQ:113:GLN:HG3	2.51	0.41
36:DA:1171:G:C5	36:DA:1173:G:O2'	2.74	0.41
43:BH:130:ARG:HH11	43:BH:130:ARG:HB3	1.85	0.41
4:CD:3:ARG:HG2	4:CD:118:ARG:NE	2.36	0.41
36:BA:2677:G:O2'	36:BA:2678:C:H5'	2.20	0.41
36:BA:2410:G:H2'	36:BA:2411:A:C8	2.55	0.41
32:D6:33:LYS:CG	32:D6:34:LEU:H	2.29	0.41
48:DQ:84:GLY:O	48:DQ:85:LYS:HB2	2.19	0.41
1:CA:1495:U:C2	1:CA:1496:C:C5	3.08	0.41
15:AO:57:LEU:N	15:AO:57:LEU:HD23	2.35	0.41
36:DA:2428:G:C4'	36:DA:2429:G:O5'	2.69	0.41
47:BP:32:THR:CG2	47:BP:37:GLY:HA2	2.49	0.41
55:BX:64:LYS:NZ	55:BX:73:ARG:NH2	2.68	0.41
25:CY:617:MET:HE3	25:CY:641:GLN:HB3	2.03	0.41
38:DC:197:LEU:O	38:DC:198:GLU:C	2.58	0.41
7:CG:108:ALA:O	7:CG:110:GLN:N	2.54	0.41
8:AH:86:ILE:HG21	8:AH:133:LEU:HD13	2.02	0.41
36:BA:587:C:C5	36:BA:671:C:H1'	2.55	0.41
36:BA:1465:G:C4	36:BA:1466:G:C8	3.09	0.41
1:CA:397:A:H5'	1:CA:398:C:OP1	2.21	0.41
1:CA:236:G:C6	1:CA:237:C:C4	3.08	0.41
7:AG:103:TRP:NE1	7:AG:137:LYS:HD3	2.36	0.41
36:DA:2552:U:C2	36:DA:2554:U:H5'	2.56	0.41
25:CY:159:ALA:O	25:CY:161:PRO:HD3	2.21	0.41
13:CM:11:ARG:HG2	13:CM:12:ASN:H	1.86	0.41
36:BA:2647:U:H2'	36:BA:2648:C:H6	1.85	0.41
47:BP:124:LYS:HA	47:BP:143:GLY:HA3	2.01	0.41
36:DA:265:A:H1'	36:DA:266:G:O4'	2.20	0.41
36:DA:438:G:H2'	36:DA:440:G:C8	2.56	0.41
36:DA:438:G:H2'	36:DA:440:G:H8	1.85	0.41
1:AA:892:A:H2'	1:AA:893:C:C6	2.55	0.41
1:CA:256:U:H2'	1:CA:257:G:H8	1.86	0.41
1:CA:329:A:H3'	1:CA:330:C:H5'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2771:C:H2'	36:BA:2772:C:C6	2.55	0.41
1:CA:78:G:H1	1:CA:91:C:N4	2.18	0.41
36:BA:1161:C:H2'	36:BA:1162:G:C8	2.55	0.41
36:BA:350:U:H2'	36:BA:351:G:O4'	2.20	0.41
1:AA:288:A:H2'	1:AA:289:G:H4'	2.02	0.41
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.56	0.41
4:CD:150:GLU:HG2	4:CD:151:LYS:N	2.36	0.41
48:DQ:1:MET:HE1	48:DQ:44:ALA:HB3	2.03	0.41
1:CA:288:A:H2'	1:CA:289:G:H4'	2.01	0.41
1:CA:197:A:H4'	1:CA:198:G:H5'	2.02	0.41
41:BF:139:PHE:HB2	41:BF:166:ALA:HB1	2.01	0.41
31:B5:13:LYS:HZ1	36:BA:516:C:P	2.43	0.41
13:CM:33:ALA:HA	13:CM:59:TYR:HE2	1.85	0.41
18:AR:36:ASN:O	18:AR:36:ASN:OD1	2.39	0.41
7:AG:136:LYS:HB3	7:AG:136:LYS:HE3	1.82	0.41
1:AA:1351:U:O4'	7:AG:33:ASP:HB3	2.20	0.41
42:DG:105:LYS:O	42:DG:109:VAL:N	2.53	0.41
55:BX:12:VAL:HA	55:BX:27:THR:O	2.21	0.41
25:CY:120:THR:O	25:CY:124:GLN:OE1	2.38	0.41
25:CY:17:ILE:CD1	25:CY:81:ILE:HG21	2.50	0.41
25:CY:18:ALA:O	25:CY:19:ALA:HB2	2.20	0.41
25:AY:102:ASP:O	25:AY:130:VAL:CG2	2.66	0.41
25:AY:20:HIS:O	25:AY:23:ALA:HB2	2.20	0.41
1:CA:1347:G:H2'	1:CA:1373:G:C6	2.56	0.41
36:DA:2733:A:H2	40:DE:203:LYS:O	2.03	0.41
43:DH:13:LYS:O	43:DH:15:VAL:N	2.47	0.41
56:BY:76:CYS:SG	56:BY:77:PRO:CD	2.87	0.41
32:D6:51:GLU:HG2	32:D6:52:VAL:N	2.35	0.41
41:BF:10:PRO:HG2	41:BF:11:VAL:H	1.86	0.41
41:BF:10:PRO:HB3	41:BF:127:GLU:CG	2.51	0.41
36:DA:99:U:H5''	36:DA:102:G:H1'	2.02	0.41
56:BY:103:GLY:O	56:BY:104:GLY:C	2.59	0.41
56:BY:14:LEU:HD13	56:BY:24:VAL:HG23	2.03	0.41
36:BA:1142(A):A:N6	36:BA:1144:G:C2	2.89	0.41
45:BN:57:ALA:HB3	45:BN:124:ALA:HB2	2.01	0.41
36:DA:1899:G:N2	36:DA:1902:C:C4	2.87	0.41
36:DA:2014:A:H2'	36:DA:2015:A:C8	2.56	0.41
36:BA:1422:G:H1'	36:BA:1496:A:N6	2.35	0.41
25:AY:211:GLU:HB2	25:AY:215:LYS:HZ1	1.82	0.41
25:AY:219:VAL:O	25:AY:222:ASP:OD2	2.38	0.41
36:BA:637:A:C6	36:BA:652:C:H4'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:50:ILE:HA	51:BT:99:LEU:HD11	2.03	0.41
27:B1:84:GLY:O	27:B1:85:LEU:C	2.59	0.41
36:DA:2103:C:C2'	36:DA:2103:C:O2	2.69	0.41
36:BA:2762:G:H2'	36:BA:2763:G:H5'	2.03	0.41
25:AY:529:ILE:HD11	25:AY:567:LEU:HG	2.03	0.41
6:AF:67:MET:CE	6:AF:72:VAL:HA	2.51	0.41
36:DA:2892:A:H62	36:DA:2893:G:N2	2.18	0.41
36:BA:2807:G:H3'	36:BA:2808:U:C5'	2.37	0.41
31:D5:36:CYS:SG	31:D5:49:CYS:CB	3.07	0.41
40:DE:77:ILE:C	40:DE:78:LEU:HG	2.40	0.41
56:BY:17:SER:O	56:BY:21:LYS:HG2	2.20	0.41
36:BA:1660:C:H5'	36:BA:2712(A):A:H61	1.86	0.41
27:B1:46:LEU:HD13	27:B1:46:LEU:H	1.85	0.41
41:DF:81:PRO:C	41:DF:83:PHE:N	2.74	0.41
36:DA:1257:C:H4'	41:DF:83:PHE:CD1	2.55	0.41
42:BG:47:LYS:HG3	42:BG:82:LEU:HB2	2.01	0.41
39:BD:43:ARG:HB3	39:BD:54:ARG:CB	2.45	0.41
27:B1:29:GLY:C	27:B1:30:VAL:HG22	2.38	0.41
46:DO:35:VAL:HG23	46:DO:65:THR:HG23	2.02	0.41
1:AA:1303:C:O2'	1:AA:1304:G:H5'	2.20	0.41
26:B0:41:ARG:NH2	36:BA:2387:U:H4'	2.35	0.41
1:AA:186:C:H2'	1:AA:187:C:C6	2.55	0.41
39:BD:81:ALA:HA	39:BD:113:VAL:HG21	2.02	0.41
57:DZ:109:ALA:C	57:DZ:111:VAL:N	2.74	0.41
18:AR:87:ARG:CB	18:AR:87:ARG:NH1	2.72	0.41
39:DD:71:ASP:HB2	39:DD:103:ARG:NH2	2.25	0.41
26:D0:10:THR:CG2	26:D0:11:ARG:N	2.79	0.41
36:DA:973:A:O4'	36:DA:1188:U:C6	2.74	0.41
36:DA:1772:G:H5'	36:DA:1773:A:OP2	2.21	0.41
30:D4:14:ILE:HG22	30:D4:15:ILE:N	2.36	0.41
42:BG:77:ILE:HG22	42:BG:80:PHE:CA	2.50	0.41
36:BA:602:G:N2	36:BA:654(V):A:N7	2.68	0.41
29:D3:34:GLU:O	29:D3:35:ARG:HB2	2.21	0.41
36:BA:2118:U:OP1	36:BA:2148:G:H4'	2.20	0.41
38:BC:184:GLU:OE1	38:BC:185:LYS:NZ	2.48	0.41
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.83	0.41
9:AI:99:LEU:HB2	9:AI:101:PHE:HD2	1.85	0.41
15:CO:74:ASP:HA	15:CO:75:PRO:HD2	1.96	0.41
43:BH:76:VAL:O	43:BH:78:GLY:N	2.54	0.41
26:D0:51:VAL:HG13	26:D0:60:PHE:O	2.20	0.41
43:DH:148:ILE:O	43:DH:162:ILE:HD11	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2378:A:C2	50:BS:19:LYS:HD3	2.56	0.41
1:CA:1513:A:C4	1:CA:1514:C:C5	3.09	0.41
25:CY:293:THR:C	25:CY:295:GLU:N	2.73	0.41
36:DA:525:U:C2'	36:DA:526:A:H5''	2.50	0.41
43:DH:35:VAL:O	43:DH:37:VAL:HG23	2.20	0.41
56:DY:95:LYS:HE2	56:DY:101:LYS:N	2.32	0.41
38:DC:134:PRO:C	38:DC:135:ARG:HD2	2.40	0.41
36:DA:1666:G:O2'	36:DA:1667:G:H5'	2.21	0.41
41:BF:81:PRO:O	41:BF:83:PHE:N	2.54	0.41
36:BA:2406:U:H5''	36:BA:2408:U:OP2	2.21	0.41
36:DA:2880:C:H1'	49:DR:92:GLY:O	2.20	0.41
36:DA:56:A:C2	36:DA:57:C:C2	3.09	0.41
25:AY:315:LYS:HD2	25:AY:317:MET:HG3	2.02	0.41
29:D3:43:ILE:O	29:D3:47:VAL:HG23	2.19	0.41
41:BF:36:VAL:CG1	41:BF:183:VAL:HG21	2.51	0.41
36:DA:756:C:HO2'	36:DA:757:U:H5'	1.85	0.41
36:DA:2716:U:H2'	36:DA:2717:G:H8	1.86	0.41
37:BB:114:C:O2'	50:BS:46:VAL:HG13	2.21	0.41
23:CW:28:C:H2'	23:CW:29:G:C8	2.51	0.41
36:DA:64:A:H2'	36:DA:65:C:C6	2.55	0.41
36:DA:2680:C:H2'	36:DA:2680:C:O2	2.19	0.41
40:DE:108:SER:O	40:DE:162:ALA:N	2.54	0.41
43:DH:130:ARG:HB3	43:DH:130:ARG:HH11	1.86	0.41
8:AH:34:GLU:OE1	8:AH:34:GLU:HA	2.20	0.41
11:AK:126:ARG:NH1	11:AK:126:ARG:HG2	2.35	0.41
3:CC:146:ALA:C	3:CC:148:GLY:H	2.23	0.41
36:BA:1472:A:H2'	36:BA:1473:G:H8	1.85	0.41
36:BA:303:U:H2'	36:BA:304:G:H8	1.82	0.41
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.53	0.41
36:BA:325:G:H2'	36:BA:326:G:H8	1.86	0.41
36:BA:1635:G:C2	36:BA:1636:C:C2	3.09	0.41
40:BE:147:PRO:HG2	40:BE:148:GLY:N	2.36	0.41
36:BA:30:G:H2'	36:BA:31:C:C6	2.56	0.41
36:BA:938:G:N3	36:BA:939:G:C8	2.89	0.41
1:AA:429:U:C1'	1:AA:430:A:H5''	2.51	0.41
3:CC:120:VAL:HG12	3:CC:121:ALA:N	2.35	0.41
1:AA:618:C:N3	1:AA:622:A:N6	2.68	0.41
25:AY:390:VAL:C	25:AY:391:GLY:O	2.57	0.41
26:D0:82:ARG:HA	26:D0:83:PRO:HD3	1.91	0.41
36:BA:836:G:H2'	36:BA:837:C:C6	2.55	0.41
20:AT:62:LEU:O	20:AT:65:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:319:C:OP1	41:BF:137:LYS:NZ	2.51	0.41
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.19	0.41
1:AA:961:U:O2'	1:AA:962:C:H5'	2.21	0.41
36:DA:383:U:H2'	36:DA:385:C:H5	1.84	0.41
36:DA:2691:C:H6	36:DA:2691:C:H5'	1.85	0.41
4:AD:80:GLU:OE1	4:AD:80:GLU:HA	2.21	0.41
38:BC:46:ALA:HA	38:BC:212:SER:O	2.21	0.41
36:DA:611:C:H2'	36:DA:612:C:C6	2.55	0.41
25:CY:102:ASP:N	25:CY:102:ASP:OD1	2.52	0.41
25:CY:69:VAL:O	25:CY:69:VAL:HG13	2.21	0.41
25:AY:33:LEU:HD11	25:AY:81:ILE:HD12	2.03	0.41
41:DF:168:ARG:O	41:DF:170:LEU:N	2.53	0.41
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.86	0.41
25:CY:115:GLU:CD	25:CY:118:SER:HB3	2.41	0.41
25:CY:138:LYS:HG2	60:CY:702:GDP:C6	2.55	0.41
25:CY:260:LEU:N	25:CY:260:LEU:HD13	2.36	0.41
36:DA:2010:G:O2'	36:DA:2011:U:H5'	2.21	0.41
54:BW:84:ARG:O	54:BW:96:ILE:HG22	2.21	0.41
52:BU:112:ARG:HD2	52:BU:112:ARG:HA	1.82	0.41
53:BV:39:LEU:HD12	53:BV:47:VAL:HG11	2.02	0.41
36:DA:948:G:H21	36:DA:985:C:P	2.43	0.41
37:BB:27:C:O3'	50:BS:36:TYR:OH	2.38	0.41
3:CC:72:LYS:HE3	3:CC:72:LYS:HA	2.02	0.41
50:DS:35:ILE:C	50:DS:36:TYR:HD1	2.22	0.41
50:DS:89:ARG:HG3	50:DS:92:TYR:N	2.35	0.41
57:DZ:69:THR:HG22	57:DZ:90:VAL:HG13	2.03	0.41
36:BA:1278:A:H4'	49:BR:34:ILE:HG21	2.02	0.41
25:AY:607:ARG:O	25:AY:671:MET:HA	2.21	0.41
25:AY:610:VAL:HG23	25:AY:643:ILE:HD12	2.02	0.41
36:DA:2016:U:O2'	36:DA:2017:U:H5'	2.21	0.41
36:DA:603:A:N6	36:DA:626:U:H4'	2.36	0.41
3:CC:94:LEU:O	3:CC:94:LEU:CD1	2.68	0.41
25:CY:610:VAL:O	25:CY:610:VAL:HG23	2.20	0.41
25:AY:160:ARG:NH2	25:AY:222:ASP:OD2	2.53	0.41
25:AY:241:GLU:HG3	25:AY:242:LEU:N	2.36	0.41
51:BT:50:ILE:N	51:BT:50:ILE:CD1	2.83	0.41
51:DT:85:LYS:O	51:DT:86:ILE:C	2.59	0.41
57:BZ:23:LYS:HB3	57:BZ:38:TYR:CD2	2.56	0.41
42:BG:152:LEU:N	42:BG:152:LEU:CD2	2.80	0.41
46:DO:47:ILE:HG23	46:DO:48:PRO:HD2	2.01	0.41
36:DA:1814:G:H2'	36:DA:1815:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:56:SER:O	47:DP:57:THR:C	2.58	0.41
46:BO:104:ARG:NE	51:BT:33:LYS:CE	2.75	0.41
31:B5:35:GLU:O	31:B5:36:CYS:HB3	2.21	0.41
36:DA:309:G:C6	36:DA:330:A:C2	3.09	0.41
36:BA:812:C:H2'	36:BA:813:U:C6	2.56	0.41
2:CB:39:ILE:HG22	2:CB:40:HIS:O	2.20	0.41
39:BD:27:THR:O	39:BD:27:THR:CG2	2.69	0.41
37:DB:102:A:H5'	37:DB:103:G:OP2	2.20	0.41
36:BA:807:U:H2'	36:BA:808:G:H8	1.84	0.41
36:BA:807:U:O2'	36:BA:808:G:H5'	2.21	0.41
5:AE:78:HIS:CE1	5:AE:80:ILE:HG23	2.56	0.41
51:DT:55:ASN:HD22	51:DT:58:ASN:HD21	1.67	0.41
57:BZ:40:ASP:HB3	57:BZ:43:GLU:CD	2.40	0.41
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	2.02	0.41
43:DH:84:SER:O	43:DH:85:LYS:HB3	2.20	0.41
20:CT:104:LEU:HD23	20:CT:105:SER:O	2.21	0.41
36:DA:1290:C:O5'	36:DA:1290:C:H6	2.04	0.41
4:CD:8:VAL:HG23	4:CD:9:CYS:N	2.36	0.41
3:CC:174:PRO:O	3:CC:175:LEU:C	2.56	0.41
36:DA:1326:U:H2'	36:DA:1327:C:C6	2.55	0.41
36:DA:1477:A:N3	36:DA:1477:A:H2'	2.36	0.41
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.36	0.41
3:AC:157:ILE:O	3:AC:159:GLY:N	2.53	0.41
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	2.01	0.41
12:CL:91:LYS:NZ	12:CL:91:LYS:HA	2.36	0.41
35:B9:29:ASN:C	35:B9:31:LYS:H	2.24	0.41
1:AA:375:U:H2'	1:AA:376:G:H8	1.85	0.41
36:BA:882:G:H22	36:BA:894:C:H42	1.69	0.41
35:D9:10:ILE:HD12	35:D9:32:HIS:CB	2.50	0.41
36:BA:1002:G:H8	36:BA:1002:G:O5'	2.04	0.41
56:BY:88:LYS:HE2	56:BY:93:GLY:HA3	2.03	0.41
28:B2:16:LEU:O	28:B2:20:GLU:CB	2.68	0.41
1:CA:771:G:H2'	1:CA:772:U:C6	2.55	0.41
1:AA:246:A:C2	1:AA:279:A:N1	2.89	0.41
57:BZ:72:ARG:HD3	57:BZ:72:ARG:HA	1.96	0.41
37:DB:15:A:C3'	37:DB:16:G:C5'	2.97	0.41
36:DA:1843:C:H2'	36:DA:1844:C:H6	1.84	0.41
36:DA:2656:U:H3	36:DA:2665:A:H2	1.67	0.41
36:BA:526:A:N6	36:BA:2626:C:H4'	2.36	0.41
16:AP:4:ILE:CG1	16:AP:64:ALA:HB1	2.49	0.41
36:DA:1680:U:O2	36:DA:1763:G:H3'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:46:G:OP1	22:CV:46:G:H8	2.04	0.41
36:DA:1126:A:H8	36:DA:1126:A:OP1	2.04	0.41
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.41	0.41
1:CA:832:C:H2'	1:CA:833:U:O4'	2.20	0.41
40:DE:9:VAL:HG13	40:DE:25:VAL:O	2.21	0.41
13:CM:14:ARG:NH2	13:CM:42:ALA:HA	2.35	0.41
36:DA:715:G:H2'	36:DA:716:A:O4'	2.21	0.41
36:DA:1175:U:P	36:DA:1176:G:H5''	2.60	0.41
36:BA:954:G:H4'	48:BQ:13:GLN:NE2	2.36	0.41
36:BA:803:U:H2'	36:BA:804:A:H5'	2.01	0.41
25:AY:95:GLU:O	25:AY:99:ARG:HD2	2.21	0.41
25:CY:415:PRO:O	25:CY:416:LYS:C	2.59	0.41
36:BA:2492:U:H2'	36:BA:2493:U:C6	2.55	0.41
10:AJ:18:ALA:C	10:AJ:20:ALA:N	2.73	0.41
42:DG:172:LEU:HD23	42:DG:176:LEU:HD12	2.02	0.41
10:AJ:29:ARG:CG	10:AJ:29:ARG:HH11	2.33	0.41
36:BA:1567:A:OP2	39:BD:84:TYR:OH	2.37	0.41
36:DA:2061:G:OP2	36:DA:2502:G:OP2	2.39	0.41
39:DD:176:ARG:HB3	39:DD:176:ARG:CZ	2.51	0.41
36:DA:1709:U:H2'	36:DA:1710:C:C6	2.55	0.41
25:CY:587:SER:O	25:CY:591:LYS:HG2	2.21	0.41
3:CC:129:ALA:C	3:CC:131:ARG:N	2.73	0.41
36:BA:370:G:C6	36:BA:424:G:N7	2.89	0.41
1:CA:294:U:H2'	1:CA:295:C:H6	1.85	0.41
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.55	0.41
38:BC:140:ASN:OD1	38:BC:141:PRO:HD2	2.20	0.41
36:BA:1177:A:H4'	36:BA:1178:C:O5'	2.20	0.41
16:AP:55:ARG:O	16:AP:58:TYR:N	2.54	0.41
1:AA:550:G:C6	1:AA:551:U:C4	3.09	0.41
1:AA:197:A:H4'	1:AA:198:G:H5'	2.03	0.41
36:BA:455:C:N3	36:BA:473:G:H5'	2.35	0.41
48:BQ:1:MET:HE1	48:BQ:44:ALA:HB3	2.03	0.41
52:DU:76:TYR:CE1	52:DU:80:ILE:HG13	2.56	0.41
1:AA:767:A:H2'	1:AA:768:A:O4'	2.20	0.41
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG22	2.01	0.41
36:DA:836:G:H2'	36:DA:837:C:C6	2.56	0.41
2:CB:25:ASN:OD1	2:CB:25:ASN:C	2.59	0.41
7:AG:52:GLU:O	7:AG:53:LYS:C	2.58	0.41
24:CX:11:A:C5'	24:CX:12:A:H5'	2.50	0.41
38:DC:76:LEU:HD23	38:DC:114:VAL:HG13	2.03	0.41
42:DG:31:VAL:HG13	42:DG:31:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D4:7:PRO:HG2	42:DG:61:ALA:HB1	2.02	0.41
25:CY:20:HIS:NE2	25:CY:117:GLN:HB3	2.36	0.41
25:CY:21:ILE:HG13	36:DA:2661:G:H5''	2.02	0.41
25:CY:299:VAL:O	25:CY:301:ILE:HD13	2.20	0.41
25:AY:32:ILE:HG22	25:AY:33:LEU:HD12	2.03	0.41
25:AY:256:THR:O	25:AY:258:VAL:HG23	2.21	0.41
25:AY:329:ARG:CB	25:AY:374:LEU:HG	2.51	0.41
25:AY:328:ILE:O	25:AY:374:LEU:HA	2.21	0.41
25:CY:145:ASP:HB3	25:CY:148:LEU:HB3	2.03	0.41
25:CY:205:TYR:O	25:CY:206:LEU:C	2.59	0.41
25:CY:259:PHE:N	25:CY:259:PHE:CD1	2.88	0.41
25:CY:510:VAL:CG1	25:CY:567:LEU:HD13	2.50	0.41
40:BE:39:PRO:HG2	40:BE:40:GLU:OE2	2.20	0.41
52:BU:112:ARG:NH2	53:BV:46:VAL:HG21	2.35	0.41
57:BZ:153:SER:HB2	57:BZ:167:PRO:HB3	2.02	0.41
57:BZ:167:PRO:O	57:BZ:168:GLU:HB2	2.21	0.41
42:BG:96:ARG:O	42:BG:97:ASP:HB2	2.21	0.41
42:BG:63:ILE:HD12	42:BG:64:THR:CB	2.50	0.41
3:CC:42:LEU:HD12	3:CC:46:GLU:OE2	2.20	0.41
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ3	1.86	0.41
25:AY:553:GLY:N	25:AY:557:GLY:HA2	2.36	0.41
32:B6:29:ASN:O	32:B6:30:THR:C	2.60	0.41
28:D2:8:LYS:O	28:D2:12:GLU:HG3	2.21	0.41
28:D2:13:ALA:O	28:D2:15:LYS:N	2.54	0.41
28:D2:3:LEU:O	28:D2:6:VAL:HB	2.21	0.41
45:BN:19:GLU:HB2	45:BN:59:LYS:CB	2.51	0.41
45:BN:23:LEU:C	45:BN:25:ARG:H	2.24	0.41
49:DR:33:ARG:HA	49:DR:114:VAL:O	2.20	0.41
32:D6:17:LYS:O	32:D6:20:ASN:ND2	2.54	0.41
36:DA:2345:G:O2'	36:DA:2381:C:H2'	2.21	0.41
32:D6:39:TYR:HB3	32:D6:49:HIS:CE1	2.56	0.41
2:CB:223:ILE:HA	2:CB:226:ARG:HB3	2.03	0.41
36:DA:1097:U:C2'	36:DA:1098:A:H5'	2.51	0.41
32:B6:15:GLU:N	32:B6:49:HIS:CD2	2.88	0.41
32:B6:16:CYS:C	32:B6:18:ARG:N	2.70	0.41
32:B6:19:ARG:O	32:B6:20:ASN:C	2.58	0.41
36:DA:1142(A):A:N6	36:DA:1144:G:C2	2.89	0.41
26:D0:15:ASP:HA	36:DA:2262:U:O4	2.20	0.41
36:DA:1023:U:H2'	36:DA:1024:G:H5'	2.02	0.41
39:BD:61:LEU:HB3	39:BD:63:ARG:NH1	2.26	0.41
36:DA:605:C:C2	36:DA:606:U:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DP:101:VAL:CG2	47:DP:102:ARG:N	2.84	0.41
42:BG:135:LEU:HD11	42:BG:155:MET:CG	2.32	0.41
25:AY:211:GLU:O	25:AY:215:LYS:HG3	2.21	0.41
36:BA:946:G:H2'	36:BA:947:G:H8	1.86	0.41
36:BA:649:G:C2	36:BA:650:C:C2	3.09	0.41
51:DT:28:VAL:HG22	51:DT:47:GLY:N	2.35	0.41
36:DA:1422:G:H1'	36:DA:1496:A:N6	2.35	0.41
36:DA:2205:C:H5'	36:DA:2206:G:OP2	2.20	0.41
25:AY:453:GLY:HA2	25:AY:458:HIS:CD2	2.29	0.41
51:DT:64:ARG:HA	51:DT:72:VAL:O	2.21	0.41
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.21	0.41
1:AA:1001(A):G:H2'	1:AA:1002:G:C8	2.56	0.41
36:BA:797:C:OP2	41:BF:62:ARG:HG3	2.19	0.41
41:BF:66:PRO:O	41:BF:68:LYS:N	2.54	0.41
34:B8:53:PRO:O	34:B8:56:GLU:CB	2.69	0.41
36:BA:833:U:OP1	47:BP:45:LEU:HD21	2.21	0.41
36:BA:2468:G:C5'	48:BQ:120:ILE:HD12	2.51	0.41
3:AC:35:GLU:OE1	3:AC:97:LYS:HE3	2.20	0.41
36:DA:857:C:C4	36:DA:858:U:C4	3.09	0.41
1:AA:254:G:O2'	1:AA:255:G:H5'	2.20	0.41
36:DA:2787:C:C2	40:DE:61:ARG:HD3	2.56	0.41
36:DA:2394:C:P	47:DP:63:PRO:HD2	2.59	0.41
46:DO:91:LEU:HB3	46:DO:111:PHE:HE1	1.86	0.41
47:BP:28:GLY:C	47:BP:29:LYS:HD2	2.41	0.41
23:AW:25:C:C2'	23:AW:26:G:H5'	2.51	0.41
23:AW:27:U:H2'	23:AW:28:C:H6	1.86	0.41
40:DE:32:PRO:CA	40:DE:90:THR:HG23	2.51	0.41
47:BP:39:LYS:HE2	47:BP:40:SER:N	2.20	0.41
20:AT:18:GLN:O	20:AT:22:ARG:HG3	2.21	0.41
37:DB:40:U:H5''	37:DB:41:U:OP2	2.21	0.41
36:DA:272(D):G:H1	36:DA:364:C:H42	1.69	0.41
36:DA:807:U:O2'	36:DA:808:G:H5'	2.21	0.41
1:CA:1031:G:H2'	1:CA:1032:G:H5'	2.03	0.41
36:DA:1238:G:O2'	36:DA:1239:G:H5'	2.20	0.41
52:BU:19:LYS:HB3	52:BU:20:LEU:HD22	2.03	0.41
48:DQ:108:GLY:O	48:DQ:109:VAL:CG2	2.69	0.41
9:AI:19:LEU:HB3	9:AI:59:PHE:CD2	2.55	0.41
36:BA:2223:G:O2'	36:BA:2224:G:H5'	2.20	0.41
16:CP:5:ARG:NH2	16:CP:26:ARG:HB2	2.35	0.41
18:CR:44:LEU:CD1	18:CR:44:LEU:N	2.83	0.41
37:BB:42:C:O2	42:BG:93:THR:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:10:VAL:O	51:BT:13:ARG:HG2	2.20	0.41
51:BT:14:TYR:O	51:BT:15:VAL:C	2.59	0.41
36:DA:709:U:O2'	36:DA:710:G:H5'	2.21	0.41
43:BH:120:GLY:C	43:BH:121:ILE:HG13	2.41	0.41
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.56	0.41
1:CA:1068:G:OP1	1:CA:1387:G:O2'	2.38	0.41
1:CA:1190:G:OP1	3:CC:5:ILE:HG23	2.21	0.41
39:DD:70:TRP:CZ3	39:DD:146:GLU:OE2	2.69	0.41
36:DA:227:A:N6	36:DA:410:G:H21	2.19	0.41
20:AT:84:LEU:C	20:AT:86:ARG:H	2.24	0.41
25:AY:302:HIS:HA	25:AY:303:PRO:HD2	1.76	0.41
39:BD:127:VAL:HA	39:BD:193:VAL:HG13	2.01	0.41
25:AY:145:ASP:HB3	25:AY:148:LEU:CD2	2.50	0.41
57:DZ:145:GLU:HG3	57:DZ:146:ILE:H	1.86	0.41
5:CE:12:LEU:CD1	5:CE:12:LEU:H	2.33	0.41
36:DA:1784:A:OP2	36:DA:1784:A:C8	2.73	0.41
1:CA:187:C:O2'	20:CT:89:ARG:HD3	2.20	0.41
36:DA:1155:A:OP2	52:DU:58:ARG:NH1	2.54	0.41
54:DW:47:VAL:CA	54:DW:50:VAL:HG12	2.49	0.41
54:DW:52:GLU:C	54:DW:54:ALA:H	2.24	0.41
54:DW:20:VAL:CG2	54:DW:47:VAL:HG21	2.50	0.41
19:CS:47:HIS:O	19:CS:62:ILE:CG2	2.69	0.41
14:AN:29:ARG:CG	14:AN:29:ARG:NH1	2.80	0.41
38:DC:184:GLU:O	38:DC:187:ALA:HB3	2.21	0.41
43:DH:86:GLU:HB2	43:DH:132:ARG:HB3	2.02	0.41
36:DA:8:A:H2'	36:DA:9:U:C5	2.55	0.41
3:CC:123:GLN:HB3	3:CC:128:PHE:CD2	2.44	0.41
36:BA:986:C:C2'	36:BA:987:G:H5'	2.51	0.41
4:AD:8:VAL:HG23	4:AD:9:CYS:N	2.35	0.41
36:DA:1791:A:N6	36:DA:1828:G:O2'	2.54	0.41
36:DA:1773:A:C2	36:DA:1977:A:N1	2.89	0.41
36:DA:729:G:C4	36:DA:1775:U:C2	3.09	0.41
52:BU:62:ILE:HG12	52:BU:76:TYR:CE2	2.56	0.41
1:CA:33:A:O2'	1:CA:363:A:N3	2.52	0.41
1:CA:579:G:H4'	1:CA:728:A:H1'	2.03	0.41
11:CK:122:LYS:O	11:CK:124:LYS:N	2.54	0.41
13:AM:57:ARG:C	13:AM:59:TYR:N	2.73	0.41
36:BA:654(O):G:H2'	36:BA:654(P):C:C5	2.56	0.41
36:DA:87:C:H5''	36:DA:88:G:H5'	2.02	0.41
38:BC:98:GLU:O	38:BC:101:ILE:HD13	2.21	0.41
36:DA:786:C:H2'	36:DA:787:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DR:116:LEU:O	49:DR:117:VAL:HB	2.21	0.41
25:CY:377:VAL:HG23	25:CY:380:LEU:HD13	2.03	0.41
12:CL:91:LYS:HZ2	12:CL:91:LYS:HA	1.85	0.41
43:BH:28:GLY:HA3	43:BH:79:VAL:CG2	2.51	0.41
7:AG:79:ARG:O	7:AG:80:VAL:HG13	2.20	0.41
35:D9:22:ARG:HB2	35:D9:24:TYR:CE1	2.51	0.41
36:BA:2577:A:C5'	36:BA:2578:G:C5'	2.99	0.41
56:BY:2:ARG:C	56:BY:4:LYS:N	2.74	0.41
36:DA:2668:G:C2'	36:DA:2669:G:H5'	2.50	0.41
11:AK:20:TYR:O	11:AK:30:VAL:HA	2.21	0.41
1:CA:278:G:OP2	17:CQ:41:LYS:HE2	2.21	0.41
36:DA:1002:G:O5'	36:DA:1002:G:H8	2.03	0.41
40:DE:185:LYS:O	40:DE:186:GLY:O	2.39	0.41
36:DA:598:G:H5'	47:DP:15:ARG:HD3	2.03	0.41
36:BA:176:G:C2'	36:BA:177:G:H5'	2.50	0.41
36:BA:294:A:C2'	36:BA:295:G:H5'	2.51	0.41
12:CL:117:ARG:O	12:CL:119:LYS:O	2.39	0.41
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.55	0.41
25:CY:424:LEU:O	25:CY:428:LEU:CD2	2.67	0.41
56:BY:89:PHE:HB3	56:BY:90:LEU:HD23	2.01	0.41
1:AA:537:G:H2'	1:AA:538:G:H8	1.85	0.41
38:DC:57:GLN:NE2	38:DC:204:GLY:O	2.54	0.41
1:AA:747:C:H2'	1:AA:748:C:O4'	2.21	0.41
1:AA:741:G:C2'	1:AA:742:G:H5'	2.50	0.41
36:DA:15:G:O2'	36:DA:16:G:H5'	2.21	0.41
25:CY:336:THR:HG23	25:CY:368:GLU:HB3	2.01	0.41
1:AA:177:C:H2'	1:AA:178:C:H6	1.86	0.41
6:AF:97:PHE:HB2	18:AR:32:ARG:NH2	2.35	0.41
15:CO:64:ARG:HB2	15:CO:64:ARG:CZ	2.50	0.41
2:AB:131:PRO:HG2	2:AB:134:GLU:CG	2.51	0.41
36:DA:1683:C:H2'	36:DA:1684:C:H6	1.86	0.41
47:BP:71:VAL:O	47:BP:72:PRO:C	2.56	0.41
18:CR:68:LYS:O	18:CR:69:THR:C	2.58	0.41
36:BA:1173:G:H5'	36:BA:1174:A:O5'	2.20	0.41
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.20	0.41
25:AY:228:MET:O	25:AY:232:LEU:CD2	2.66	0.41
36:BA:1991:U:H2'	36:BA:1992:G:H5''	2.02	0.41
36:DA:271(D):G:C2	36:DA:271(E):U:C2	3.08	0.41
13:CM:34:LEU:HD13	13:CM:41:PRO:HB3	2.03	0.41
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.21	0.41
57:BZ:150:LEU:N	57:BZ:150:LEU:CD2	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:12:ARG:HD3	49:BR:16:HIS:CD2	2.56	0.41
37:BB:36:C:H2'	37:BB:37:C:H6	1.84	0.41
1:AA:1010:G:N3	1:AA:1011:G:C8	2.89	0.41
5:CE:33:VAL:CG1	5:CE:34:VAL:N	2.82	0.41
7:AG:145:ALA:O	7:AG:147:ALA:N	2.51	0.41
37:BB:114:C:H2'	37:BB:115:G:H8	1.81	0.41
1:AA:832:C:H2'	1:AA:833:U:O4'	2.21	0.41
36:DA:484:C:OP1	56:DY:50:ARG:NE	2.54	0.41
1:CA:913:A:H1'	1:CA:914:A:O4'	2.21	0.41
1:CA:913:A:H4'	1:CA:914:A:H4'	2.02	0.41
42:DG:181:ARG:NH1	42:DG:181:ARG:CG	2.82	0.41
40:DE:26:ILE:HD12	40:DE:198:VAL:HG21	2.03	0.41
1:AA:1060:C:H4'	10:AJ:52:GLY:H	1.86	0.41
10:AJ:22:LYS:NZ	10:AJ:23:ILE:HA	2.36	0.41
1:CA:894:G:O2'	1:CA:895:G:H5'	2.21	0.41
23:CW:56:C:O2	23:CW:56:C:C2'	2.69	0.41
6:CF:25:ILE:HA	6:CF:28:ARG:HD3	2.03	0.41
36:DA:2818:G:H4'	36:DA:2837:G:O4'	2.21	0.41
1:AA:47:C:H5	1:AA:365:U:H3'	1.86	0.41
29:D3:16:PRO:CB	29:D3:18:ASP:OD1	2.69	0.41
1:CA:316:G:C6	1:CA:338:A:C6	3.09	0.41
57:BZ:48:PHE:CE2	57:BZ:74:VAL:HG21	2.56	0.41
7:CG:30:ILE:HD13	7:CG:105:VAL:HG22	2.03	0.41
36:DA:825:C:H2'	36:DA:826:U:O4'	2.21	0.41
52:BU:85:LYS:HG2	52:BU:85:LYS:O	2.21	0.41
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	2.02	0.41
40:BE:177:PRO:HG2	40:BE:178:GLU:H	1.86	0.41
36:BA:2695:C:H2'	36:BA:2696:U:H6	1.85	0.41
8:AH:36:LEU:O	8:AH:38:ILE:N	2.54	0.41
36:BA:1591:G:H2'	36:BA:1592:C:C6	2.55	0.41
1:CA:238:G:C6	1:CA:239:U:C4	3.09	0.41
36:DA:1465:G:C4	36:DA:1466:G:C8	3.09	0.41
23:CW:9:G:C2	23:CW:45:G:C6	3.09	0.41
1:CA:411:A:O2'	1:CA:413:G:H5'	2.20	0.41
38:BC:149:ASN:ND2	38:BC:149:ASN:C	2.72	0.41
44:DJ:148:UNK:O	44:DJ:150:UNK:N	2.54	0.41
36:BA:2697:G:H2'	36:BA:2698:U:O4'	2.19	0.41
57:BZ:57:ILE:N	57:BZ:57:ILE:HD12	2.36	0.41
25:CY:159:ALA:O	25:CY:161:PRO:HD2	2.20	0.41
1:AA:294:U:H2'	1:AA:295:C:H6	1.85	0.41
20:CT:69:GLY:O	20:CT:73:HIS:NE2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:53:VAL:HB	8:AH:58:TYR:CD2	2.55	0.41
20:AT:73:HIS:HB3	20:AT:74:LYS:CD	2.51	0.41
1:AA:329:A:H3'	1:AA:330:C:H5'	2.03	0.41
8:CH:53:VAL:HB	8:CH:58:TYR:CD2	2.56	0.41
41:DF:46:ARG:HG3	41:DF:48:THR:HG23	2.03	0.41
1:AA:429:U:H4'	1:AA:430:A:O5'	2.20	0.41
36:DA:2320:A:C2'	36:DA:2320:A:N3	2.83	0.41
36:BA:2320:A:N3	36:BA:2320:A:C2'	2.83	0.41
38:BC:191:ARG:O	38:BC:195:ARG:HG3	2.21	0.41
2:CB:194:PRO:O	2:CB:195:ASP:C	2.60	0.41
5:CE:32:VAL:O	5:CE:43:LEU:HD12	2.21	0.41
50:BS:70:GLY:O	50:BS:72:ALA:N	2.54	0.41
18:CR:42:ARG:HE	18:CR:42:ARG:HB2	1.73	0.41
2:AB:194:PRO:O	2:AB:197:VAL:N	2.54	0.41
1:AA:505:G:H2'	1:AA:506:G:H8	1.86	0.41
1:AA:778:G:C5	1:AA:779:C:C5	3.08	0.41
36:BA:205:G:HO2'	36:BA:206:U:P	2.43	0.41
36:DA:271(V):G:H2'	36:DA:271(W):G:O4'	2.21	0.41
36:BA:271(M):G:C2'	36:BA:271(N):U:H5"	2.51	0.41
13:CM:72:ALA:O	13:CM:73:GLU:C	2.59	0.41
1:AA:676:A:H1'	11:AK:115:PRO:HB3	2.02	0.41
36:BA:447:A:H4'	36:BA:449:A:N7	2.36	0.41
7:AG:73:MET:HG2	7:AG:90:GLU:HA	2.02	0.41
40:BE:137:HIS:CB	40:BE:138:PRO:HD2	2.50	0.41
36:DA:2045:C:C2	36:DA:2624:G:N2	2.89	0.41
36:DA:1420:U:H2'	36:DA:1421:G:H5'	2.02	0.41
57:DZ:175:VAL:HB	57:DZ:176:PRO:CD	2.50	0.41
1:CA:189(B):C:C2	1:CA:189(J):G:C2	3.08	0.41
36:BA:2532:G:H2'	36:BA:2533:A:O4'	2.21	0.41
36:BA:2322:A:O2'	36:BA:2323:G:H5'	2.21	0.41
36:BA:411:G:OP2	36:BA:2407:G:P	2.79	0.41
36:BA:404:C:O2'	36:BA:405:U:OP2	2.38	0.41
36:DA:722:A:H2'	36:DA:722:A:N3	2.35	0.41
1:AA:221:C:H2'	1:AA:221:C:O2	2.20	0.41
36:BA:1420:U:H2'	36:BA:1421:G:H5'	2.03	0.41
18:AR:47:THR:O	18:AR:82:THR:HA	2.20	0.41
39:BD:245:PRO:O	39:BD:246:PRO:C	2.59	0.41
36:BA:1292:U:H2'	36:BA:1293:C:C6	2.55	0.41
1:AA:495:A:H4'	1:AA:496:A:OP1	2.21	0.41
57:DZ:4:ARG:HD2	57:DZ:60:GLU:OE2	2.20	0.41
6:CF:40:VAL:HG13	6:CF:40:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:188:LEU:HD22	3:AC:188:LEU:N	2.35	0.41
38:DC:132:LEU:HB3	38:DC:138:LEU:N	2.36	0.41
23:AW:34:C:H2'	23:AW:35:A:C4'	2.31	0.41
42:DG:111:LEU:N	42:DG:112:PRO:CD	2.84	0.41
25:AY:616:TYR:CD2	25:AY:663:THR:HA	2.55	0.41
41:BF:153:SER:HA	41:BF:172:TRP:HB2	2.02	0.41
36:DA:1052:C:C6	36:DA:1052:C:C3'	3.04	0.41
36:BA:996:A:H2'	36:BA:997:G:H8	1.85	0.41
53:BV:19:LYS:HE2	53:BV:20:LEU:H	1.85	0.41
56:BY:76:CYS:O	56:BY:77:PRO:C	2.59	0.41
36:DA:2584:U:O2'	36:DA:2585:U:H5'	2.21	0.41
30:B4:1:MET:HE3	42:BG:66:GLN:OE1	2.21	0.41
50:DS:30:ARG:O	50:DS:30:ARG:HG3	2.21	0.41
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.21	0.41
41:BF:7:TYR:OH	41:BF:10:PRO:HG3	2.20	0.41
53:DV:38:LEU:HD23	53:DV:38:LEU:C	2.40	0.41
53:DV:39:LEU:HD12	53:DV:47:VAL:HG11	2.02	0.41
50:DS:14:VAL:HG12	50:DS:15:ARG:N	2.36	0.41
25:CY:224:ASP:OD2	25:CY:245:ALA:HB2	2.21	0.41
25:AY:605:ILE:O	25:AY:605:ILE:HG22	2.21	0.41
31:D5:2:ALA:HB2	36:DA:2015:A:O4'	2.21	0.41
36:DA:1146:C:H2'	36:DA:1147:C:H5'	2.03	0.41
36:BA:2579:C:C2'	36:BA:2580:U:H5'	2.51	0.41
51:BT:106:SER:CA	51:BT:110:ILE:HG12	2.46	0.41
39:DD:131:LEU:HB3	39:DD:132:PRO:CD	2.51	0.41
25:AY:415:PRO:HG3	25:AY:421:GLN:CG	2.41	0.41
39:DD:34:VAL:HG23	39:DD:35:LYS:N	2.35	0.41
36:BA:2019:A:H2'	36:BA:2020:A:O5'	2.21	0.41
25:AY:505:GLY:HA3	25:AY:576:ASP:CB	2.51	0.41
28:D2:57:ILE:H	28:D2:57:ILE:HG12	1.63	0.41
28:D2:61:LEU:HD12	36:DA:72:U:O4'	2.20	0.41
50:DS:106:ARG:O	50:DS:107:GLU:HB2	2.20	0.41
36:BA:665:C:H2'	36:BA:666:G:C8	2.55	0.41
25:AY:510:VAL:CG1	25:AY:511:LYS:N	2.82	0.41
1:CA:235:C:H1'	17:CQ:61:GLU:OE2	2.21	0.41
1:CA:268:C:O2	1:CA:268:C:C2'	2.62	0.41
27:D1:95:LEU:HD12	27:D1:95:LEU:HA	1.89	0.41
57:DZ:137:ILE:HG23	57:DZ:156:LYS:O	2.21	0.41
1:CA:1234:C:C4'	1:CA:1364:U:H1'	2.51	0.41
40:DE:60:ASN:O	40:DE:61:ARG:C	2.59	0.41
36:DA:589:C:O2'	36:DA:590:A:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1697:G:C3'	36:BA:1698:A:C5'	2.95	0.41
36:BA:812:C:H1'	36:BA:1250:G:C2	2.55	0.41
36:DA:1596:A:O2'	36:DA:1597:A:H5'	2.21	0.41
1:CA:1256:A:C2	1:CA:1277:C:C5	3.08	0.41
1:CA:1116:C:O2'	1:CA:1117:G:H5''	2.20	0.41
1:CA:1117:G:O2'	9:CI:104:ARG:CD	2.66	0.41
36:DA:1782:C:H1'	36:DA:2609:U:C5'	2.38	0.41
36:DA:805:G:H4'	36:DA:806:C:OP2	2.20	0.41
9:AI:50:LEU:HG	9:AI:81:ILE:HG21	2.03	0.41
22:AV:52:G:H2'	22:AV:53:G:C8	2.55	0.41
25:CY:74:TRP:CD1	25:CY:273:LEU:HD22	2.56	0.41
1:AA:1190:G:OP1	3:AC:5:ILE:HG23	2.20	0.41
1:AA:1418:A:H2	36:BA:1948:G:N3	2.19	0.41
36:BA:1052:C:O2'	36:BA:1053:C:O5'	2.38	0.41
36:BA:545:C:OP1	36:BA:545:C:C6	2.69	0.41
36:DA:2842:G:C6	36:DA:2876:G:N1	2.89	0.41
52:DU:59:ARG:O	52:DU:60:LEU:C	2.59	0.41
2:CB:144:ARG:HG3	2:CB:145:LEU:N	2.36	0.41
9:AI:80:GLY:O	9:AI:84:ALA:N	2.52	0.41
36:BA:2277:G:C6	36:BA:2278:A:N7	2.88	0.41
40:DE:57:LYS:HZ3	40:DE:63:LEU:CG	2.31	0.41
34:D8:62:LEU:N	34:D8:63:PRO:HD2	2.34	0.41
1:AA:284:G:N3	1:AA:285:G:C8	2.89	0.41
47:BP:75:ILE:N	47:BP:75:ILE:CD1	2.81	0.41
31:B5:25:LEU:HD12	54:BW:19:LEU:CB	2.49	0.41
46:BO:13:ASN:C	46:BO:15:GLY:N	2.74	0.41
36:BA:2143:C:C2	36:BA:2149:G:C2	3.09	0.41
4:AD:129:ASN:HD21	4:AD:144:ASP:HB3	1.85	0.41
25:CY:380:LEU:N	25:CY:380:LEU:HD12	2.36	0.41
36:BA:956:G:C4'	48:BQ:83:MET:HE1	2.51	0.41
25:CY:65:ILE:N	25:CY:65:ILE:HD13	2.34	0.41
36:DA:2577:A:C5'	36:DA:2578:G:C5'	2.98	0.41
1:AA:707:C:H2'	1:AA:708:C:C6	2.56	0.41
40:DE:4:ILE:HD12	40:DE:92:THR:O	2.21	0.41
43:BH:148:ILE:O	43:BH:151:ILE:HG12	2.21	0.41
36:BA:2377:A:H2'	36:BA:2378:A:C8	2.56	0.41
47:DP:122:PRO:O	47:DP:123:LEU:CB	2.64	0.41
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.56	0.41
27:B1:52:ARG:HD3	27:B1:52:ARG:HA	1.87	0.41
36:BA:2416:C:H2'	36:BA:2417:C:C6	2.56	0.41
8:AH:91:ARG:HB2	12:AL:7:ILE:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DY:86:ARG:H	56:DY:88:LYS:NZ	2.19	0.41
36:BA:601:C:O2'	36:BA:605:C:H5''	2.21	0.41
1:AA:1071:C:O2'	1:AA:1072:G:H5'	2.21	0.41
41:DF:6:VAL:O	41:DF:6:VAL:HG12	2.21	0.41
41:BF:199:TRP:O	41:BF:199:TRP:CE3	2.74	0.41
26:D0:49:LYS:O	26:D0:50:ASN:HB2	2.21	0.41
36:DA:25:U:OP1	54:DW:102:HIS:HE1	2.04	0.41
42:BG:130:ASN:OD1	42:BG:160:VAL:HA	2.20	0.41
42:DG:20:ILE:O	42:DG:24:GLY:HA2	2.21	0.41
36:DA:77:C:H2'	36:DA:78:A:C8	2.56	0.41
5:CE:61:TYR:O	5:CE:62:ALA:C	2.58	0.41
36:DA:2849:U:O2	36:DA:2849:U:O4'	2.39	0.41
38:BC:52:PRO:HB2	38:BC:168:LYS:O	2.21	0.41
36:DA:460:A:C2	36:DA:470:A:C4	3.08	0.41
41:DF:39:TRP:O	41:DF:43:LYS:HG2	2.21	0.41
36:BA:2219:G:C2'	36:BA:2220:G:H5'	2.51	0.41
1:AA:608:A:O2'	1:AA:609:A:H5'	2.21	0.41
36:DA:1217:C:H2'	36:DA:1218:C:C6	2.56	0.41
8:AH:32:LYS:C	8:AH:34:GLU:N	2.72	0.41
53:BV:1:MET:HB3	53:BV:2:PHE:H	1.48	0.41
1:CA:28:G:O2'	1:CA:296:U:OP1	2.38	0.41
1:AA:894:G:O2'	1:AA:895:G:H5'	2.21	0.41
36:BA:1509(B):A:H2'	36:BA:1510:G:C8	2.56	0.41
53:DV:99:ILE:H	53:DV:99:ILE:HD13	1.84	0.41
36:DA:580:C:OP2	52:DU:33:ARG:NH2	2.54	0.41
1:CA:826:C:C2	1:CA:827:U:C5	3.09	0.41
11:AK:29:ILE:HB	11:AK:44:SER:HB3	2.02	0.41
27:B1:20:ARG:HH12	36:BA:387:U:P	2.44	0.41
1:CA:238:G:O2'	1:CA:239:U:H5'	2.21	0.41
6:CF:19:LEU:HD21	6:CF:23:LYS:HE2	2.03	0.41
4:AD:105:VAL:HG13	4:AD:110:PHE:HB2	2.03	0.41
36:DA:654(E):G:C2'	36:DA:654(F):C:H5'	2.51	0.41
36:DA:1591:G:H2'	36:DA:1592:C:C6	2.56	0.41
18:AR:42:ARG:HE	18:AR:42:ARG:HB2	1.71	0.41
1:CA:600:C:H2'	1:CA:601:C:C6	2.56	0.41
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.20	0.41
36:BA:206:U:H2'	36:BA:206:U:O2	2.20	0.41
8:AH:121:ASP:O	8:AH:122:ARG:C	2.58	0.41
36:DA:271(M):G:C2'	36:DA:271(N):U:H5''	2.51	0.41
7:AG:64:GLN:HE21	7:AG:68:ASN:HD21	1.69	0.41
36:DA:691:C:O2'	36:DA:692:C:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:118:ALA:O	41:BF:121:GLY:N	2.53	0.41
6:CF:51:PRO:HA	6:CF:55:ASP:O	2.20	0.41
16:AP:80:PHE:O	16:AP:81:ARG:C	2.59	0.41
55:DX:43:VAL:C	55:DX:45:THR:H	2.24	0.41
7:CG:73:MET:HG2	7:CG:90:GLU:HA	2.03	0.41
1:CA:386:C:H2'	1:CA:387:U:O4'	2.21	0.41
49:DR:59:ASP:O	49:DR:60:LEU:C	2.60	0.41
36:BA:975:C:OP2	36:BA:975:C:H4'	2.21	0.41
25:CY:31:ARG:HA	25:CY:31:ARG:HH11	1.83	0.41
36:DA:173:G:N3	36:DA:173:G:H2'	2.35	0.41
3:CC:188:LEU:HD22	3:CC:188:LEU:N	2.36	0.41
36:BA:769:G:H2'	36:BA:770:G:C8	2.55	0.40
42:DG:138:GLN:NE2	42:DG:149:VAL:HG23	2.36	0.40
57:DZ:14:LYS:C	57:DZ:16:SER:N	2.74	0.40
25:CY:315:LYS:NZ	25:CY:317:MET:CG	2.78	0.40
25:CY:85:PRO:CA	25:CY:94:VAL:HG13	2.51	0.40
25:AY:82:ILE:HG13	25:AY:101:LEU:HD23	2.03	0.40
41:BF:150:GLY:HA2	41:BF:172:TRP:CE3	2.56	0.40
54:DW:84:ARG:O	54:DW:96:ILE:HG22	2.21	0.40
1:AA:1347:G:H2'	1:AA:1373:G:C6	2.56	0.40
56:DY:76:CYS:O	56:DY:77:PRO:C	2.60	0.40
36:BA:143:G:H2'	36:BA:143(A):C:H6	1.83	0.40
37:BB:45:A:H1'	42:BG:95:ARG:NH2	2.36	0.40
36:BA:2688:U:C5	36:BA:2720:U:OP1	2.74	0.40
32:D6:6:ARG:O	32:D6:7:ILE:CB	2.68	0.40
34:B8:30:ARG:CZ	36:BA:2419:U:O4	2.69	0.40
15:CO:21:ASP:OD1	15:CO:24:SER:HB3	2.21	0.40
55:DX:7:VAL:CG1	55:DX:39:ILE:HD13	2.51	0.40
52:DU:94:ASN:HD22	52:DU:95:LEU:HG	1.86	0.40
52:DU:93:LYS:O	52:DU:96:ALA:HB3	2.20	0.40
36:BA:1016:G:O2'	36:BA:1017:G:H5'	2.21	0.40
36:BA:1018:C:O2'	36:BA:1019:U:H5'	2.21	0.40
36:BA:1022:G:O6	45:BN:66:LYS:CE	2.69	0.40
26:B0:15:ASP:HA	36:BA:2262:U:O4	2.21	0.40
32:B6:17:LYS:O	32:B6:20:ASN:ND2	2.54	0.40
31:D5:2:ALA:O	31:D5:3:LYS:HB3	2.20	0.40
36:DA:1020:A:C6	36:DA:1141:U:H2'	2.54	0.40
47:BP:147:LEU:C	47:BP:148:LEU:HD12	2.41	0.40
47:BP:99:LEU:O	47:BP:103:ALA:HB2	2.21	0.40
51:BT:108:ARG:HG3	51:BT:109:GLU:H	1.84	0.40
51:BT:27:THR:O	51:BT:28:VAL:CG2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:35:LEU:HD23	28:D2:35:LEU:C	2.41	0.40
47:BP:46:LYS:CG	47:BP:52:GLU:HG2	2.46	0.40
17:CQ:18:THR:HG23	17:CQ:69:LYS:HE3	2.03	0.40
48:DQ:116:GLU:O	48:DQ:120:ILE:HG12	2.22	0.40
57:DZ:102:LEU:HD21	57:DZ:124:ILE:HD13	2.02	0.40
5:CE:144:THR:C	5:CE:146:ALA:N	2.70	0.40
8:CH:10:LEU:O	8:CH:13:ILE:HB	2.21	0.40
40:BE:65:GLY:O	40:BE:67:PHE:N	2.53	0.40
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.51	0.40
45:BN:55:VAL:CG2	45:BN:127:ASP:N	2.83	0.40
1:AA:1256:A:H2	1:AA:1277:C:C4	2.39	0.40
3:AC:5:ILE:HD13	3:AC:5:ILE:N	2.36	0.40
12:AL:53:ARG:NH1	12:AL:53:ARG:HG2	2.35	0.40
25:CY:353:ALA:O	25:CY:354:ARG:CB	2.57	0.40
42:BG:46:ALA:HA	42:BG:51:ARG:HG3	2.02	0.40
39:DD:108:PRO:HB3	39:DD:143:HIS:CE1	2.55	0.40
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.56	0.40
48:DQ:35:VAL:HG23	48:DQ:101:ARG:O	2.21	0.40
1:CA:1104:G:P	2:CB:111:ARG:HD2	2.61	0.40
36:DA:1286:A:O2'	36:DA:1287:A:H5'	2.21	0.40
9:AI:55:ALA:HA	9:AI:58:HIS:HD2	1.84	0.40
1:AA:771:G:H2'	1:AA:772:U:C6	2.56	0.40
12:CL:30:ALA:HA	12:CL:31:PRO:HD3	1.90	0.40
28:D2:55:ARG:O	28:D2:58:ALA:CB	2.61	0.40
18:CR:35:ARG:O	18:CR:37:VAL:HG13	2.21	0.40
11:AK:122:LYS:O	11:AK:124:LYS:N	2.55	0.40
34:B8:2:PRO:O	34:B8:3:LYS:O	2.39	0.40
54:BW:13:SER:HA	54:BW:14:PRO:HD3	1.82	0.40
36:DA:1230:C:H2'	36:DA:1231:G:H8	1.86	0.40
36:BA:1942:C:C3'	36:BA:1943:U:H5''	2.46	0.40
36:BA:1788:C:C2'	36:BA:1789:A:H5'	2.51	0.40
33:B7:27:GLY:HA2	33:B7:30:VAL:HG23	2.02	0.40
43:DH:162:ILE:O	43:DH:162:ILE:HG13	2.21	0.40
18:AR:37:VAL:C	18:AR:39:VAL:H	2.23	0.40
36:BA:2602:A:H4'	36:BA:2603:G:H5'	2.00	0.40
56:BY:87:LYS:HB3	56:BY:87:LYS:HE2	1.92	0.40
43:BH:146:ALA:HA	43:BH:149:ARG:HB3	2.01	0.40
12:AL:117:ARG:O	12:AL:119:LYS:O	2.38	0.40
35:B9:18:ARG:O	35:B9:18:ARG:CG	2.63	0.40
1:AA:489:C:H2'	1:AA:490:G:C8	2.56	0.40
36:BA:15:G:O2'	36:BA:16:G:H5'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2126:A:O2'	36:BA:2127:G:OP2	2.39	0.40
36:DA:2416:C:H2'	36:DA:2417:C:C6	2.56	0.40
37:BB:77:U:P	57:BZ:19:ARG:NH2	2.94	0.40
36:DA:2405:G:HO2'	36:DA:2406:U:P	2.43	0.40
36:BA:2880:C:H1'	49:BR:92:GLY:O	2.21	0.40
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.21	0.40
36:DA:327:G:O2'	36:DA:328:U:H5'	2.20	0.40
36:DA:2693:A:C6	36:DA:2717:G:C6	3.09	0.40
17:AQ:9:VAL:HG12	17:AQ:56:VAL:HA	2.03	0.40
47:DP:110:TYR:O	47:DP:111:ARG:O	2.39	0.40
42:DG:22:ARG:HB3	42:DG:23:PHE:H	1.68	0.40
32:B6:39:TYR:OH	36:BA:2347:C:OP1	2.34	0.40
55:DX:65:ARG:HH11	55:DX:65:ARG:HG2	1.85	0.40
48:BQ:78:PRO:O	48:BQ:81:VAL:CG1	2.69	0.40
1:AA:16:A:N1	1:AA:919:A:C2	2.89	0.40
29:B3:16:PRO:CB	29:B3:18:ASP:OD1	2.69	0.40
57:BZ:96:VAL:CG2	57:BZ:97:GLU:N	2.84	0.40
42:DG:26:GLN:HB2	42:DG:27:ASN:H	1.75	0.40
6:CF:21:LEU:O	6:CF:25:ILE:HG12	2.22	0.40
8:AH:63:LEU:H	8:AH:63:LEU:CD2	2.33	0.40
44:BJ:73:UNK:O	44:BJ:74:UNK:C	2.68	0.40
36:BA:1336:A:O2'	36:BA:1337:G:H5'	2.21	0.40
1:CA:608:A:O2'	1:CA:609:A:H5'	2.22	0.40
1:AA:335:C:O2'	1:AA:336:C:H5'	2.21	0.40
39:BD:204:ILE:HG13	39:BD:204:ILE:O	2.21	0.40
41:BF:105:VAL:O	41:BF:105:VAL:HG12	2.21	0.40
36:BA:565:C:H1'	36:BA:577:G:N2	2.36	0.40
48:BQ:62:GLY:O	57:BZ:178:GLU:HB2	2.21	0.40
30:D4:39:CYS:HG	30:D4:42:PHE:HE2	1.53	0.40
41:BF:135:LYS:HB3	41:BF:138:GLU:HG3	2.02	0.40
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.21	0.40
27:D1:62:VAL:HG22	27:D1:63:ALA:N	2.36	0.40
8:CH:30:ARG:CB	8:CH:30:ARG:NH1	2.85	0.40
47:DP:124:LYS:HA	47:DP:143:GLY:HA3	2.03	0.40
36:BA:2034:U:C2'	36:BA:2035:G:H5'	2.51	0.40
36:DA:1423:G:H2'	36:DA:1424:G:C8	2.56	0.40
25:CY:389:LEU:N	25:CY:389:LEU:HD12	2.36	0.40
1:AA:1056:U:H5'	3:AC:163:ALA:CB	2.51	0.40
36:DA:640:C:C4	36:DA:641:C:N4	2.89	0.40
55:BX:18:TYR:C	55:BX:20:GLY:N	2.75	0.40
1:AA:72:C:H2'	1:AA:73:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2003:G:C6	36:BA:2004:G:C5	3.09	0.40
36:DA:2718:G:C6	36:DA:2719:G:C5	3.09	0.40
1:CA:1253:G:C2	1:CA:1254:C:C2	3.09	0.40
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	2.03	0.40
19:CS:20:LEU:HA	19:CS:23:ASN:HB2	2.03	0.40
1:AA:671:G:H2'	1:AA:672:U:O4'	2.21	0.40
36:DA:537:C:H2'	36:DA:538:G:C8	2.56	0.40
36:DA:1829:A:H2'	36:DA:1830:C:O4'	2.21	0.40
26:B0:65:GLY:HA3	26:B0:83:PRO:HA	2.04	0.40
36:BA:123:G:O2'	36:BA:124:G:H5'	2.21	0.40
1:CA:15:G:H8	1:CA:1396:A:O2'	2.04	0.40
36:BA:775:G:C4	36:BA:794:G:C8	3.08	0.40
12:CL:43:VAL:HG13	12:CL:55:VAL:HG21	2.03	0.40
2:CB:114:ARG:CD	2:CB:114:ARG:O	2.69	0.40
2:AB:25:ASN:C	2:AB:25:ASN:OD1	2.58	0.40
28:B2:65:ASN:O	28:B2:68:ARG:N	2.54	0.40
51:DT:67:SER:O	51:DT:68:TYR:HB2	2.21	0.40
38:DC:111:PHE:HE1	38:DC:137:LEU:HD13	1.87	0.40
38:DC:114:VAL:O	38:DC:145:THR:CG2	2.70	0.40
36:BA:1354:A:H2'	36:BA:1355:G:O4'	2.21	0.40
42:DG:6:ALA:HB3	42:DG:104:GLU:OE2	2.21	0.40
42:DG:34:LEU:HD21	42:DG:100:TRP:CH2	2.56	0.40
25:AY:90:PHE:HB3	25:AY:454:MET:HB2	2.03	0.40
25:AY:96:ARG:CG	25:AY:97:SER:N	2.84	0.40
1:CA:1371:G:C6	1:CA:1372:U:C4	3.10	0.40
25:CY:512:ILE:N	25:CY:512:ILE:CD1	2.84	0.40
25:CY:553:GLY:HA3	25:CY:558:PHE:H	1.87	0.40
52:BU:92:ARG:O	52:BU:93:LYS:C	2.58	0.40
57:DZ:27:VAL:CG2	57:DZ:28:MET:N	2.83	0.40
15:CO:17:ARG:HD3	15:CO:26:GLU:CG	2.29	0.40
41:BF:13:SER:HA	41:BF:14:PRO:HD3	1.89	0.40
52:DU:91:ASP:CG	52:DU:96:ALA:HB2	2.41	0.40
56:DY:61:ILE:CG1	56:DY:62:GLU:N	2.84	0.40
45:DN:57:ALA:HB3	45:DN:124:ALA:HB2	2.03	0.40
36:DA:483:A:H4'	56:DY:49:VAL:HA	2.02	0.40
36:BA:960:A:C8	36:BA:962:G:C8	3.10	0.40
36:BA:634:C:H2'	36:BA:635:C:O4'	2.21	0.40
36:BA:629:G:H5''	36:BA:650:C:O2'	2.21	0.40
51:BT:65:LYS:NZ	51:BT:66:VAL:H	2.19	0.40
51:DT:117:ASP:O	51:DT:118:ARG:C	2.59	0.40
31:B5:7:PRO:HA	36:BA:2615:U:C2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:28:A:H2'	36:DA:28:A:N3	2.36	0.40
9:CI:19:LEU:HB3	9:CI:59:PHE:CD2	2.57	0.40
9:CI:19:LEU:HB3	9:CI:59:PHE:HD2	1.86	0.40
14:CN:12:ARG:O	14:CN:14:PRO:CD	2.57	0.40
36:DA:2021:C:H4'	36:DA:2022:U:OP2	2.21	0.40
36:DA:855:G:O2'	36:DA:856:C:H5'	2.21	0.40
57:DZ:165:VAL:HG11	57:DZ:169:GLU:HB2	2.03	0.40
23:AW:70:G:N1	23:AW:71:C:N4	2.69	0.40
5:CE:92:LYS:HA	5:CE:93:PRO:HD2	1.79	0.40
1:CA:1256:A:H2	1:CA:1277:C:C4	2.39	0.40
38:BC:71:LYS:CG	38:BC:72:GLN:N	2.82	0.40
36:DA:1541:G:H4'	36:DA:1542:A:O4'	2.20	0.40
36:DA:2713:A:H4'	36:DA:2713:A:OP2	2.21	0.40
2:CB:30:ARG:NH2	2:CB:31:TYR:OH	2.55	0.40
1:AA:1226:C:H5	13:AM:104:ARG:HB2	1.82	0.40
42:BG:114:ILE:HG12	42:BG:140:ILE:HG21	2.04	0.40
26:D0:43:THR:HG22	36:DA:2331:G:O2'	2.22	0.40
36:BA:2776:A:C6	36:BA:2782:G:H1'	2.56	0.40
51:DT:1:MET:H2	51:DT:7:ILE:HD11	1.86	0.40
31:D5:25:LEU:HD12	54:DW:19:LEU:CB	2.49	0.40
27:D1:24:ALA:CB	27:D1:32:LYS:HE3	2.44	0.40
19:CS:33:THR:OG1	19:CS:34:TRP:N	2.54	0.40
36:DA:2754:U:H2'	36:DA:2756:U:OP1	2.21	0.40
43:DH:141:VAL:O	43:DH:143:GLN:N	2.53	0.40
36:DA:654(O):G:H2'	36:DA:654(P):C:C5	2.57	0.40
34:D8:61:LEU:HG	34:D8:61:LEU:H	1.47	0.40
36:BA:1314:C:OP1	36:BA:1315:C:OP2	2.39	0.40
19:AS:17:GLU:C	19:AS:19:VAL:H	2.25	0.40
31:B5:25:LEU:HD12	54:BW:19:LEU:C	2.42	0.40
54:BW:52:GLU:C	54:BW:54:ALA:H	2.23	0.40
36:BA:2147:G:C2'	36:BA:2148:G:H5'	2.50	0.40
36:BA:2147:G:H2'	36:BA:2148:G:C4'	2.51	0.40
48:DQ:59:ARG:HA	57:DZ:180:VAL:HG23	2.02	0.40
37:DB:86:G:H2'	37:DB:87:G:C8	2.56	0.40
36:BA:1185:C:C5'	36:BA:1186:G:P	3.09	0.40
36:BA:191:A:O2'	36:BA:192:C:H5'	2.21	0.40
2:AB:83:MET:SD	2:AB:234:PRO:HG3	2.61	0.40
2:AB:32:ILE:CD1	2:AB:40:HIS:HD2	2.34	0.40
1:AA:1325:C:O2'	1:AA:1326:C:H5'	2.22	0.40
36:BA:688:U:H2'	36:BA:689:A:C8	2.54	0.40
50:BS:20:ARG:HG2	50:BS:20:ARG:NH1	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:418:G:H2'	36:DA:419:C:H6	1.85	0.40
36:DA:191:A:O2'	36:DA:192:C:H5'	2.21	0.40
1:AA:243:A:C2	1:AA:245:C:C2	3.10	0.40
1:AA:246:A:O2'	17:AQ:99:SER:HA	2.21	0.40
49:BR:50:HIS:O	49:BR:51:LEU:C	2.59	0.40
36:BA:686:G:N2	36:BA:788:A:H61	2.18	0.40
36:DA:1351:C:H5'	36:DA:1352:U:OP2	2.21	0.40
49:DR:56:LYS:C	49:DR:58:GLY:H	2.24	0.40
48:DQ:75:THR:HG22	48:DQ:76:LYS:H	1.84	0.40
3:CC:139:GLN:O	3:CC:140:ARG:C	2.60	0.40
1:CA:52:G:H2'	1:CA:53:A:O4'	2.22	0.40
7:CG:79:ARG:HD2	7:CG:79:ARG:C	2.42	0.40
37:BB:39:A:C2	37:BB:44:G:C2	3.09	0.40
42:DG:23:PHE:CE2	42:DG:168:GLU:HG2	2.56	0.40
36:BA:725:G:C6	36:BA:726:G:N1	2.88	0.40
36:BA:1071:G:N2	36:BA:1090:U:C5	2.90	0.40
10:CJ:20:ALA:C	10:CJ:22:LYS:N	2.73	0.40
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.42	0.40
1:CA:1379:G:O2'	1:CA:1380:U:H5'	2.20	0.40
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.54	0.40
36:DA:1472:A:H2'	36:DA:1473:G:H8	1.86	0.40
7:AG:108:ALA:C	7:AG:110:GLN:N	2.74	0.40
4:CD:57:ARG:NH1	4:CD:205:GLU:OE1	2.47	0.40
1:AA:923:A:O2'	1:AA:924:C:H5'	2.21	0.40
21:AU:8:THR:O	21:AU:9:ARG:C	2.59	0.40
6:CF:19:LEU:CD2	6:CF:23:LYS:HE2	2.51	0.40
36:DA:1587:A:H3'	36:DA:1588:C:H6	1.85	0.40
25:AY:337:SER:HB3	25:AY:367:GLU:HG2	2.03	0.40
36:BA:1587:A:H3'	36:BA:1588:C:C6	2.56	0.40
36:BA:128:C:O2'	36:BA:129:C:O5'	2.37	0.40
38:DC:16:ASP:C	38:DC:18:ASN:H	2.25	0.40
36:BA:718:A:H3'	36:BA:719:C:H6	1.86	0.40
36:BA:2319:G:C2	36:BA:2320:A:N1	2.89	0.40
1:AA:1056:U:H4'	3:AC:163:ALA:HB2	2.02	0.40
1:CA:945:G:C2	1:CA:946:A:C8	3.10	0.40
36:DA:1161:C:H2'	36:DA:1162:G:H8	1.86	0.40
52:DU:76:TYR:C	52:DU:76:TYR:CD1	2.94	0.40
55:DX:41:ASN:C	55:DX:43:VAL:H	2.24	0.40
26:B0:82:ARG:HA	26:B0:83:PRO:HD3	1.90	0.40
43:DH:150:ALA:O	43:DH:151:ILE:C	2.59	0.40
36:DA:793:A:OP2	36:DA:2072:G:H5'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:343:C:O2'	36:DA:344:G:H5'	2.21	0.40
36:DA:350:U:H2'	36:DA:351:G:O4'	2.22	0.40
2:CB:52:GLU:O	2:CB:56:ARG:HG2	2.22	0.40
44:BJ:51:UNK:CB	44:BJ:89:UNK:CB	2.99	0.40
56:DY:98:VAL:HG12	56:DY:98:VAL:O	2.21	0.40
46:BO:9:GLU:HA	46:BO:9:GLU:OE1	2.21	0.40
5:AE:69:VAL:HA	5:AE:70:PRO:HD2	1.83	0.40
1:CA:222:U:H2'	1:CA:223:U:C6	2.56	0.40
36:BA:2367:G:H2'	36:BA:2368:C:H6	1.85	0.40
38:DC:98:GLU:HA	38:DC:101:ILE:CD1	2.52	0.40
30:D4:1:MET:HG3	42:DG:66:GLN:HG3	2.03	0.40
43:BH:173:PRO:O	43:BH:174:GLY:C	2.59	0.40
25:CY:488:THR:HG23	25:CY:600:VAL:HG11	2.02	0.40
25:CY:170:ARG:NH1	25:CY:205:TYR:OH	2.54	0.40
25:CY:260:LEU:HB2	25:CY:261:GLY:H	1.50	0.40
36:BA:1748:G:H2'	36:BA:1749:A:O4'	2.22	0.40
36:DA:1859:A:C2	36:DA:1884:A:H1'	2.57	0.40
36:DA:2308:G:N7	36:DA:2310:A:C5'	2.66	0.40
36:DA:960:A:C8	36:DA:962:G:C8	3.08	0.40
10:CJ:81:THR:C	10:CJ:83:GLU:H	2.24	0.40
29:B3:31:LEU:HD22	29:B3:32:GLN:N	2.36	0.40
57:DZ:28:MET:O	57:DZ:34:ASN:HA	2.21	0.40
49:BR:28:LEU:CD2	49:BR:29:LEU:HD12	2.43	0.40
45:BN:87:LEU:O	45:BN:90:MET:N	2.54	0.40
32:D6:44:ARG:HB3	32:D6:45:LYS:H	1.58	0.40
36:BA:1097:U:C2'	36:BA:1098:A:H5'	2.51	0.40
36:BA:2345:G:O2'	36:BA:2381:C:H2'	2.21	0.40
47:BP:105:LEU:H	47:BP:105:LEU:CD1	2.33	0.40
51:DT:29:ARG:HA	51:DT:29:ARG:HD2	1.77	0.40
36:BA:512:G:O2'	36:BA:513:A:C8	2.74	0.40
25:AY:434:GLU:HG2	25:AY:434:GLU:O	2.21	0.40
25:AY:467:LYS:HA	25:AY:472:VAL:O	2.21	0.40
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.20	0.40
51:DT:90:GLN:HE21	51:DT:90:GLN:HB2	1.63	0.40
36:BA:2056:G:N2	36:BA:2057:A:N9	2.69	0.40
36:BA:252:G:O2'	36:BA:253:C:H5'	2.20	0.40
25:AY:568:TYR:CD2	25:AY:569:ASP:HB2	2.55	0.40
27:D1:93:GLU:O	27:D1:95:LEU:N	2.52	0.40
20:CT:100:ILE:HG13	20:CT:101:GLY:N	2.36	0.40
3:AC:65:ALA:O	3:AC:66:VAL:CB	2.69	0.40
14:AN:12:ARG:O	14:AN:14:PRO:CD	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:78:HIS:HD2	8:CH:107:LEU:HD12	1.86	0.40
40:DE:68:ALA:C	40:DE:70:ALA:H	2.24	0.40
36:BA:662:G:H2'	36:BA:663:G:C8	2.57	0.40
40:BE:31:CYS:C	40:BE:90:THR:HG23	2.42	0.40
40:BE:47:VAL:HG21	40:BE:86:PRO:HD3	2.03	0.40
25:CY:178:ILE:CD1	25:CY:185:ALA:CB	2.99	0.40
46:DO:104:ARG:CZ	46:DO:104:ARG:HB3	2.51	0.40
36:BA:1512:U:H2'	36:BA:1513:C:C6	2.56	0.40
22:AV:53:G:C4	22:AV:54:U:C5	3.08	0.40
46:DO:35:VAL:CG1	46:DO:103:ALA:HB3	2.38	0.40
1:CA:719:C:C2	18:CR:50:ILE:HG12	2.57	0.40
40:BE:25:VAL:CG1	40:BE:181:LEU:HD12	2.52	0.40
36:BA:1960:A:C5'	36:BA:1960:A:C8	3.05	0.40
36:BA:917:A:H2'	36:BA:918:A:C8	2.56	0.40
13:AM:49:THR:C	13:AM:51:ALA:N	2.73	0.40
36:BA:1052:C:O2'	36:BA:1053:C:P	2.79	0.40
20:CT:11:SER:HA	20:CT:13:LEU:HD12	2.01	0.40
13:CM:82:MET:HA	13:CM:93:ARG:NH2	2.23	0.40
39:DD:112:GLN:N	39:DD:115:GLN:NE2	2.59	0.40
36:DA:864:G:H21	36:DA:866:A:H61	1.69	0.40
36:DA:1644:C:O2	36:DA:1644:C:C2'	2.54	0.40
43:BH:53:GLU:HA	43:BH:53:GLU:OE1	2.22	0.40
36:DA:2757:A:N1	43:DH:67:LEU:HD13	2.36	0.40
12:AL:47:LYS:HB3	12:AL:47:LYS:NZ	2.25	0.40
13:AM:59:TYR:O	13:AM:60:VAL:C	2.60	0.40
36:BA:1610:A:H4'	36:BA:1611:C:OP2	2.21	0.40
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.36	0.40
36:BA:2118:U:O4	36:BA:2149:G:H1'	2.21	0.40
36:DA:1942:C:C3'	36:DA:1943:U:H5''	2.46	0.40
38:BC:184:GLU:HB2	38:BC:185:LYS:HZ2	1.83	0.40
9:AI:49:PRO:HD3	9:AI:101:PHE:HE1	1.86	0.40
36:DA:2690:C:H5	49:DR:14:SER:OG	2.04	0.40
1:AA:513:C:H2'	1:AA:514:C:C6	2.56	0.40
56:BY:32:PRO:C	56:BY:35:TYR:H	2.24	0.40
25:CY:137:ASN:ND2	25:CY:263:ALA:HB2	2.37	0.40
1:CA:349:A:H2'	1:CA:350:G:C5'	2.45	0.40
2:AB:170:GLU:O	2:AB:171:ALA:C	2.59	0.40
56:BY:95:LYS:HE2	56:BY:101:LYS:N	2.29	0.40
43:BH:148:ILE:O	43:BH:162:ILE:HD11	2.21	0.40
1:AA:501:C:O2'	1:AA:502:G:H5'	2.22	0.40
51:BT:113:LYS:HA	51:BT:113:LYS:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:229:VAL:HG23	39:DD:230:ASP:N	2.36	0.40
53:BV:34:GLU:HG2	53:BV:36:PRO:HD3	2.04	0.40
9:CI:49:PRO:HD3	9:CI:101:PHE:HE1	1.86	0.40
36:DA:14:A:C6	36:DA:526:A:C2	3.10	0.40
1:CA:956:U:C2'	1:CA:957:U:H5'	2.50	0.40
56:DY:88:LYS:HE2	56:DY:93:GLY:HA3	2.03	0.40
36:BA:1131:G:N3	36:BA:1132:A:C8	2.89	0.40
36:DA:1952:A:C2	46:DO:22:ILE:HG23	2.56	0.40
46:DO:22:ILE:HG12	46:DO:41:ALA:HA	2.03	0.40
22:CV:21:A:N6	22:CV:46:G:C4	2.90	0.40
36:BA:1171:G:C5	36:BA:1173:G:O2'	2.74	0.40
36:DA:851:U:H2'	36:DA:852:G:C8	2.57	0.40
13:AM:124:PRO:CG	25:AY:574:GLU:HB2	2.49	0.40
1:CA:1314:C:C2	1:CA:1315:U:C5	3.10	0.40
1:CA:992:U:O2'	1:CA:993:G:OP2	2.37	0.40
36:BA:484:C:OP1	56:BY:50:ARG:NE	2.54	0.40
30:B4:2:LYS:HG2	37:BB:44:G:OP2	2.20	0.40
36:BA:877:U:O2'	36:BA:878:A:H5''	2.20	0.40
41:DF:106:ARG:NH1	41:DF:106:ARG:HG3	2.36	0.40
52:DU:17:ILE:C	52:DU:19:LYS:N	2.75	0.40
36:BA:2543:G:H2'	36:BA:2544:G:O4'	2.21	0.40
8:CH:38:ILE:C	8:CH:40:ALA:N	2.73	0.40
3:CC:54:ARG:NH1	3:CC:56:ASP:OD1	2.54	0.40
36:BA:445:C:H2'	36:BA:446:G:O4'	2.21	0.40
38:BC:100:ILE:O	38:BC:102:GLN:N	2.53	0.40
6:AF:19:LEU:HD21	6:AF:23:LYS:HE2	2.04	0.40
52:BU:74:LEU:C	52:BU:74:LEU:HD13	2.41	0.40
38:DC:10:ALA:O	38:DC:13:GLU:HG2	2.21	0.40
36:BA:1009:A:OP2	36:BA:1010:A:OP2	2.39	0.40
36:DA:1635:G:C2	36:DA:1636:C:C2	3.10	0.40
57:BZ:129:SER:C	57:BZ:131:ARG:N	2.74	0.40
36:DA:30:G:H2'	36:DA:31:C:C6	2.56	0.40
1:AA:110:C:H2'	1:AA:111:G:O4'	2.21	0.40
1:CA:505:G:H2'	1:CA:506:G:H8	1.86	0.40
26:B0:38:VAL:O	26:B0:58:THR:HG23	2.21	0.40
26:D0:65:GLY:HA3	26:D0:83:PRO:HA	2.04	0.40
40:DE:109:LYS:HE2	40:DE:191:PRO:HA	2.03	0.40
36:DA:2785:C:O2'	36:DA:2786:U:H5'	2.22	0.40
45:DN:111:PRO:HA	45:DN:114:ARG:NH1	2.36	0.40
38:BC:51:ASP:OD2	38:BC:53:ARG:HG3	2.22	0.40
1:CA:922:G:O2'	1:CA:1398:A:N1	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	2.03	0.40
1:AA:610:G:N3	1:AA:610:G:H2'	2.37	0.40
36:BA:1804:C:O5'	36:BA:1804:C:H6	2.04	0.40
36:DA:1333:C:H6	36:DA:1333:C:O5'	2.03	0.40
46:DO:9:GLU:OE1	46:DO:9:GLU:HA	2.21	0.40
33:D7:48:LYS:HE2	33:D7:48:LYS:HB3	1.95	0.40
36:BA:2540:C:O2'	36:BA:2541:A:H5'	2.21	0.40
25:AY:561:VAL:O	25:AY:562:ASP:HB2	2.21	0.40
36:DA:1956:U:C2'	36:DA:1957:C:H5'	2.51	0.40
1:AA:1505:G:H4'	1:AA:1506:U:H5''	2.02	0.40
36:DA:965:C:O2'	36:DA:966:G:H5'	2.20	0.40
42:DG:111:LEU:HD21	42:DG:120:LEU:HD21	2.03	0.40
25:CY:411:VAL:CG1	25:CY:412:ALA:N	2.84	0.40
25:AY:616:TYR:CZ	25:AY:666:ARG:HD3	2.57	0.40
59:AY:701:FUA:H212	59:AY:701:FUA:H72	1.88	0.40
25:AY:87:HIS:CE1	25:AY:120:THR:CB	3.04	0.40
25:CY:539:ILE:HD12	25:CY:567:LEU:CD2	2.31	0.40
36:DA:2012:G:O3'	54:DW:96:ILE:HG13	2.22	0.40
36:BA:2584:U:O2'	36:BA:2585:U:H5'	2.18	0.40
53:BV:18:LEU:CD1	53:BV:18:LEU:N	2.85	0.40
56:BY:99:CYS:O	56:BY:100:ALA:O	2.38	0.40
36:DA:2584:U:O5'	36:DA:2584:U:O2	2.40	0.40
48:BQ:137:TYR:HD1	48:BQ:137:TYR:H	1.65	0.40
41:DF:10:PRO:HB3	41:DF:127:GLU:CG	2.51	0.40
47:DP:30:THR:CG2	47:DP:31:ALA:N	2.62	0.40
34:D8:31:HIS:HE1	36:DA:2392:A:OP2	2.03	0.40
49:BR:33:ARG:HA	49:BR:114:VAL:O	2.22	0.40
28:D2:13:ALA:O	28:D2:14:ARG:C	2.58	0.40
36:BA:272(I):U:O4	36:BA:363(A):A:N1	2.54	0.40
36:DA:83:G:O2'	36:DA:84:A:C8	2.55	0.40
56:DY:15:VAL:HG12	56:DY:20:TYR:O	2.22	0.40
45:DN:18:ALA:O	45:DN:21:LYS:HB2	2.21	0.40
36:DA:603:A:O2'	36:DA:604:G:P	2.80	0.40
36:DA:651:G:C2'	36:DA:652:C:H5'	2.50	0.40
36:DA:651:G:H2'	36:DA:652:C:H5'	2.04	0.40
47:BP:114:ILE:HG23	47:BP:130:PHE:CE1	2.56	0.40
36:BA:1203:G:O2'	36:BA:1242:A:N6	2.54	0.40
36:BA:1899:G:N2	36:BA:1902:C:C4	2.88	0.40
45:DN:131:GLN:HE22	45:DN:133:GLN:HA	1.86	0.40
49:BR:45:ARG:CG	49:BR:46:GLY:N	2.77	0.40
36:DA:2811:G:H22	36:DA:2891:G:H1'	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:84:VAL:CG1	41:BF:85:GLY:N	2.59	0.40
5:CE:150:ARG:CB	5:CE:150:ARG:NH1	2.84	0.40
4:AD:40:PRO:HB2	4:AD:41:GLY:H	1.61	0.40
36:DA:139:G:H1	36:DA:142(A):C:H42	1.70	0.40
40:DE:47:VAL:HG21	40:DE:86:PRO:HD3	2.04	0.40
40:BE:89:ASP:O	40:BE:90:THR:O	2.40	0.40
20:AT:26:ASN:HA	20:AT:29:LYS:CG	2.48	0.40
1:CA:1150:U:O4	1:CA:1151:A:N6	2.52	0.40
9:CI:84:ALA:O	9:CI:86:VAL:N	2.54	0.40
20:AT:13:LEU:CD1	20:AT:13:LEU:H	2.11	0.40
36:DA:1210:A:C8	36:DA:1210:A:H5'	2.56	0.40
13:CM:121:LYS:HZ3	13:CM:121:LYS:HB2	1.86	0.40
36:BA:1528:A:C2	36:BA:1542:A:H2	2.40	0.40
4:CD:170:VAL:HG12	4:CD:174:LEU:HB2	2.03	0.40
30:B4:35:VAL:HG21	42:BG:113:ARG:HH21	1.85	0.40
40:BE:9:VAL:HG22	40:BE:25:VAL:HB	2.02	0.40
23:CW:49:G:H3'	23:CW:50:U:H5''	2.01	0.40
1:CA:1392:G:C2'	1:CA:1393:U:H5'	2.52	0.40
1:CA:1505:G:H4'	1:CA:1506:U:H5''	2.02	0.40
14:AN:47:LEU:O	14:AN:49:HIS:N	2.54	0.40
3:CC:5:ILE:HG22	10:CJ:51:ARG:HH22	1.86	0.40
36:BA:1052:C:C6	36:BA:1052:C:C3'	3.04	0.40
1:AA:182:U:O2	1:AA:182:U:H2'	2.21	0.40
39:DD:80:ALA:O	39:DD:81:ALA:HB2	2.21	0.40
51:DT:14:TYR:O	51:DT:15:VAL:C	2.60	0.40
57:DZ:112:ARG:HG2	57:DZ:112:ARG:NH1	2.36	0.40
25:CY:133:ILE:HD11	25:CY:272:LEU:HD11	2.04	0.40
34:D8:4:MET:HE1	36:DA:593:G:H1'	2.03	0.40
39:BD:106:ILE:HD11	39:BD:196:VAL:CG1	2.43	0.40
36:BA:1616:A:H4'	36:BA:1617:C:OP2	2.22	0.40
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.23	0.40
36:BA:655:A:H1'	36:BA:656:G:C1'	2.51	0.40
36:DA:956:G:O4'	48:DQ:83:MET:HE1	2.22	0.40
4:CD:132:ARG:HH11	4:CD:132:ARG:HG2	1.87	0.40
35:B9:22:ARG:O	35:B9:24:TYR:HD1	2.04	0.40
36:BA:2526:G:H5'	36:BA:2742:C:O2'	2.21	0.40
36:DA:176:G:C2'	36:DA:177:G:H5'	2.51	0.40
1:AA:391:G:C6	1:AA:392:G:N7	2.89	0.40
36:BA:1775:U:O2'	36:BA:1776:G:H5'	2.21	0.40
56:BY:36:ALA:HB1	56:BY:67:LEU:O	2.22	0.40
33:D7:24:THR:C	33:D7:26:GLY:H	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:538:G:O2'	1:CA:539:A:H5'	2.21	0.40
12:AL:117:ARG:O	12:AL:118:SER:C	2.60	0.40
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.20	0.40
54:BW:11:ARG:HA	54:BW:11:ARG:HE	1.86	0.40
39:DD:186:HIS:O	39:DD:189:CYS:HB2	2.21	0.40
1:CA:953:G:O2'	13:CM:122:LYS:HB2	2.21	0.40
2:CB:130:ARG:HA	2:CB:131:PRO:HD2	1.86	0.40
48:DQ:75:THR:HG21	48:DQ:87:LYS:HG2	2.02	0.40
3:CC:182:ILE:HA	3:CC:202:ILE:O	2.20	0.40
36:DA:1796:U:P	39:DD:276:LYS:HE3	2.61	0.40
39:DD:76:PRO:CG	39:DD:98:VAL:HG21	2.49	0.40
15:CO:54:ARG:O	15:CO:55:GLY:C	2.60	0.40
7:CG:25:ALA:O	7:CG:28:ASN:HB2	2.20	0.40
42:DG:168:GLU:C	42:DG:170:ARG:H	2.25	0.40
4:CD:3:ARG:CG	4:CD:118:ARG:HE	2.34	0.40
36:DA:1215:G:O2'	36:DA:1216:G:H5'	2.20	0.40
40:DE:196:VAL:C	40:DE:197:ILE:HG22	2.41	0.40
39:BD:176:ARG:CG	39:BD:176:ARG:NH1	2.81	0.40
1:AA:1059:C:H2'	1:AA:1060:C:H6	1.87	0.40
1:AA:765:G:H22	1:AA:812:C:HO2'	1.69	0.40
40:BE:8:LYS:HE2	40:BE:192:ASN:HD22	1.87	0.40
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.37	0.40
22:CV:64:A:C4	22:CV:65:G:C8	3.09	0.40
36:DA:324:A:H2'	36:DA:325:G:O4'	2.21	0.40
40:BE:176:ILE:CG2	40:BE:178:GLU:HB3	2.51	0.40
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.21	0.40
57:DZ:77:ASP:HA	57:DZ:84:GLU:CD	2.42	0.40
1:CA:452:A:O2'	1:CA:453:A:H8	2.04	0.40
36:DA:67:U:H2'	36:DA:68:G:H8	1.86	0.40
44:DJ:123:UNK:O	44:DJ:124:UNK:O	2.39	0.40
1:CA:1472:U:O2'	1:CA:1473:A:H5'	2.20	0.40
36:BA:455:C:N3	36:BA:472:A:H2'	2.36	0.40
46:BO:66:LYS:HE2	46:BO:80:ASP:O	2.21	0.40
1:AA:680:C:O2'	1:AA:681:C:H5'	2.22	0.40
36:DA:2485:G:C2	36:DA:2486:G:C8	3.09	0.40
1:CA:925:G:C2	1:CA:927:G:C8	3.10	0.40
39:DD:153:ALA:C	39:DD:154:LYS:HG3	2.42	0.40
1:CA:571:U:H2'	1:CA:572:A:H5''	2.02	0.40
3:AC:121:ALA:O	3:AC:124:ILE:HB	2.21	0.40
1:CA:221:C:O2	1:CA:221:C:H2'	2.21	0.40
11:AK:31:THR:O	11:AK:31:THR:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:722:A:N3	36:BA:722:A:H2'	2.37	0.40
36:BA:474:G:C6	36:BA:510:C:N4	2.89	0.40
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.39	0.40
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.55	0.40
25:CY:119:GLU:O	25:CY:121:VAL:N	2.45	0.40
41:DF:150:GLY:HA2	41:DF:172:TRP:CE3	2.56	0.40
2:AB:163:PHE:HA	2:AB:185:ILE:HG13	2.03	0.40
1:AA:975:A:N6	1:AA:1367:C:O4'	2.55	0.40
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.22	0.40
1:CA:1526:G:H2'	1:CA:1527:C:C6	2.57	0.40
53:BV:21:ARG:O	53:BV:22:VAL:CG1	2.68	0.40
40:DE:116:VAL:HG22	40:DE:122:PHE:CG	2.56	0.40
53:DV:17:GLY:O	53:DV:18:LEU:CB	2.70	0.40
53:DV:12:TYR:CE2	53:DV:22:VAL:HG12	2.57	0.40
53:DV:45:THR:CG2	53:DV:52:VAL:HG21	2.51	0.40
36:DA:2881:C:H2'	36:DA:2882:A:H8	1.86	0.40
12:CL:42:THR:CG2	12:CL:42:THR:O	2.69	0.40
47:DP:112:LEU:CD1	47:DP:127:ALA:HB1	2.52	0.40
47:DP:114:ILE:HG23	47:DP:130:PHE:CE1	2.56	0.40
3:CC:65:ALA:O	3:CC:66:VAL:CB	2.70	0.40
47:BP:98:GLU:HA	47:BP:101:VAL:HG22	2.03	0.40
51:BT:27:THR:C	51:BT:28:VAL:HG23	2.41	0.40
51:DT:65:LYS:NZ	51:DT:66:VAL:H	2.19	0.40
41:BF:29:ASN:OD1	41:BF:31:HIS:HB3	2.22	0.40
1:CA:1001(A):G:H2'	1:CA:1002:G:C8	2.56	0.40
36:BA:2744:G:C2	36:BA:2761:G:C4	3.10	0.40
28:D2:38:GLN:C	28:D2:41:ILE:HG12	2.40	0.40
9:CI:23:ASN:OD1	9:CI:24:GLY:N	2.55	0.40
36:DA:666:G:C5	36:DA:667:U:C5	3.09	0.40
51:BT:45:PHE:HE2	51:BT:74:ARG:HB2	1.83	0.40
31:B5:48:GLU:O	31:B5:49:CYS:HB3	2.20	0.40
36:DA:2832:U:C5	36:DA:2884:U:H5''	2.57	0.40
40:DE:68:ALA:C	40:DE:70:ALA:N	2.75	0.40
1:CA:1130:A:H5'	9:CI:18:PHE:HE2	1.86	0.40
36:DA:365:C:H2'	36:DA:366:C:O4'	2.21	0.40
51:BT:132:LYS:CG	51:BT:133:GLU:N	2.82	0.40
36:BA:475:U:C4	36:BA:481:G:O6	2.75	0.40
36:BA:1210:A:C8	36:BA:1210:A:H5'	2.57	0.40
36:BA:779:U:O2'	36:BA:780:G:H5'	2.21	0.40
1:AA:958:A:C6	1:AA:959:A:N1	2.90	0.40
13:AM:96:LEU:CB	13:AM:97:PRO:HD2	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1545:A:N7	36:BA:1546:C:C2	2.89	0.40
54:BW:25:ARG:CB	54:BW:25:ARG:NH1	2.84	0.40
1:CA:998:G:N3	1:CA:999:C:O2	2.55	0.40
2:AB:42:ILE:O	2:AB:42:ILE:HG23	2.22	0.40
36:BA:1796:U:O2	36:BA:1824:G:C2	2.74	0.40
1:CA:1068:G:N2	1:CA:1191:A:N3	2.68	0.40
23:CW:1:C:O2	23:CW:73:A:H2	2.05	0.40
1:AA:186:C:H2'	1:AA:187:C:H6	1.87	0.40
51:DT:11:GLU:CD	51:DT:11:GLU:N	2.74	0.40
25:AY:428:LEU:CD1	25:AY:440:VAL:HG11	2.42	0.40
36:DA:545:C:C6	36:DA:545:C:OP1	2.70	0.40
12:CL:83:VAL:HG12	12:CL:100:ILE:HG23	2.04	0.40
39:DD:72:LYS:HB3	39:DD:75:ILE:HB	2.03	0.40
13:AM:93:ARG:HD3	36:BA:888:C:OP1	2.21	0.40
36:BA:1290:C:O5'	36:BA:1290:C:H6	2.04	0.40
36:DA:1616:A:H4'	36:DA:1617:C:OP2	2.21	0.40
36:DA:2107:C:N4	36:DA:2182:G:H1	2.19	0.40
36:BA:2107:C:N4	36:BA:2182:G:H1	2.18	0.40
1:CA:375:U:O2'	16:CP:28:ARG:HD2	2.21	0.40
4:CD:5:ILE:CA	4:CD:115:ARG:HH12	2.28	0.40
37:BB:14:U:H5'	37:BB:71:C:O4'	2.22	0.40
35:B9:33:LYS:HE3	36:BA:2526:G:O2'	2.21	0.40
36:BA:817:C:H2'	36:BA:818:G:O4'	2.21	0.40
36:DA:177:G:H3'	36:DA:178:G:H8	1.86	0.40
43:DH:21:PRO:HB2	43:DH:22:GLY:H	1.74	0.40
36:DA:2526:G:H5'	36:DA:2742:C:O2'	2.21	0.40
1:CA:276:G:C2'	1:CA:277:C:H5'	2.51	0.40
18:AR:35:ARG:O	18:AR:37:VAL:HG13	2.21	0.40
53:BV:6:LYS:HE2	53:BV:6:LYS:HB3	1.97	0.40
36:DA:1319:G:C6	36:DA:1320:C:N4	2.90	0.40
1:CA:952:U:O2'	1:CA:953:G:H5'	2.22	0.40
36:DA:389:G:O4'	36:DA:2413:G:C4'	2.70	0.40
36:BA:525:U:C2'	36:BA:526:A:H5''	2.51	0.40
3:CC:182:ILE:HG23	3:CC:202:ILE:O	2.22	0.40
36:BA:2115:G:H5''	36:BA:2116:G:OP2	2.22	0.40
23:CW:42:G:C2'	23:CW:43:A:H5'	2.52	0.40
55:DX:65:ARG:HG2	55:DX:66:LEU:N	2.36	0.40
10:CJ:12:ASP:OD1	10:CJ:12:ASP:C	2.59	0.40
57:DZ:179:ASP:HB3	57:DZ:182:LYS:HE2	2.03	0.40
40:DE:108:SER:O	40:DE:162:ALA:CA	2.70	0.40
1:CA:767:A:H2'	1:CA:768:A:O4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:103:LYS:C	41:DF:105:VAL:N	2.75	0.40
40:DE:101:ARG:HD3	40:DE:171:GLU:HA	2.04	0.40
36:DA:325:G:H2'	36:DA:326:G:C8	2.56	0.40
36:BA:325:G:H2'	36:BA:326:G:C8	2.56	0.40
1:CA:1163:C:O2'	1:CA:1164:G:H5'	2.21	0.40
36:BA:2097:C:H2'	36:BA:2098:U:H6	1.86	0.40
1:CA:803:G:C6	1:CA:804:U:C4	3.10	0.40
36:BA:654(E):G:C2'	36:BA:654(F):C:H5'	2.51	0.40
12:AL:111:LYS:HG2	12:AL:112:ASP:OD1	2.22	0.40
25:CY:302:HIS:O	25:CY:304:ASP:N	2.51	0.40
36:DA:291:C:H2'	36:DA:292:C:H6	1.86	0.40
36:DA:563:G:N2	36:DA:564:C:C2	2.90	0.40
40:BE:144:ARG:HB3	40:BE:145:LYS:H	1.75	0.40
1:CA:902:G:H2'	1:CA:903:G:H8	1.86	0.40
1:CA:96:U:HO2'	1:CA:97:G:P	2.45	0.40
13:CM:63:THR:CG2	13:CM:64:TRP:H	2.34	0.40
36:BA:1984:G:H2'	36:BA:1985:G:H8	1.85	0.40
36:BA:2509:G:O2'	36:BA:2510:C:H5'	2.21	0.40
25:AY:29:THR:C	25:AY:31:ARG:H	2.24	0.40
1:CA:610:G:H2'	1:CA:610:G:N3	2.35	0.40
1:CA:946:A:C5'	1:CA:947:G:OP2	2.70	0.40
13:CM:73:GLU:O	13:CM:76:ALA:HB3	2.21	0.40
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.56	0.40
14:CN:60:SER:O	14:CN:61:TRP:HB3	2.22	0.40
1:AA:370:C:O2'	1:AA:371:G:H5'	2.22	0.40
36:DA:2094:G:O2'	36:DA:2095:C:H5'	2.21	0.40
5:CE:139:LEU:C	5:CE:141:GLN:H	2.24	0.40
36:BA:2337:G:H2'	36:BA:2338:G:H8	1.86	0.40
5:AE:65:ASN:O	5:AE:65:ASN:CG	2.59	0.40
3:AC:21:ARG:H	3:AC:21:ARG:HG2	1.76	0.40
36:DA:1804:C:O5'	36:DA:1804:C:H6	2.05	0.40
11:CK:31:THR:HG23	11:CK:31:THR:O	2.21	0.40
35:B9:2:LYS:HE3	35:B9:2:LYS:HB3	1.97	0.40
20:AT:87:LYS:HA	20:AT:87:LYS:HD2	1.87	0.40
51:DT:51:ARG:O	51:DT:61:PHE:HB2	2.22	0.40
1:CA:880:C:H2'	1:CA:881:G:H8	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	148 (64%)	52 (22%)	33 (14%)	0	6
2	CB	233/256 (91%)	148 (64%)	52 (22%)	33 (14%)	0	6
3	AC	205/239 (86%)	146 (71%)	32 (16%)	27 (13%)	0	6
3	CC	205/239 (86%)	148 (72%)	31 (15%)	26 (13%)	0	7
4	AD	206/209 (99%)	138 (67%)	47 (23%)	21 (10%)	1	12
4	CD	206/209 (99%)	138 (67%)	49 (24%)	19 (9%)	1	15
5	AE	149/162 (92%)	117 (78%)	26 (17%)	6 (4%)	4	38
5	CE	149/162 (92%)	118 (79%)	26 (17%)	5 (3%)	5	43
6	AF	99/101 (98%)	69 (70%)	26 (26%)	4 (4%)	4	38
6	CF	99/101 (98%)	69 (70%)	26 (26%)	4 (4%)	4	38
7	AG	153/156 (98%)	112 (73%)	27 (18%)	14 (9%)	1	15
7	CG	153/156 (98%)	112 (73%)	29 (19%)	12 (8%)	1	19
8	AH	136/138 (99%)	106 (78%)	26 (19%)	4 (3%)	6	46
8	CH	136/138 (99%)	105 (77%)	27 (20%)	4 (3%)	6	46
9	AI	121/128 (94%)	85 (70%)	27 (22%)	9 (7%)	1	21
9	CI	121/128 (94%)	87 (72%)	25 (21%)	9 (7%)	1	21
10	AJ	97/105 (92%)	67 (69%)	19 (20%)	11 (11%)	0	9
10	CJ	97/105 (92%)	68 (70%)	18 (19%)	11 (11%)	0	9
11	AK	117/129 (91%)	85 (73%)	23 (20%)	9 (8%)	1	19
11	CK	117/129 (91%)	85 (73%)	23 (20%)	9 (8%)	1	19
12	AL	123/132 (93%)	84 (68%)	19 (15%)	20 (16%)	0	5
12	CL	123/132 (93%)	84 (68%)	19 (15%)	20 (16%)	0	5
13	AM	123/126 (98%)	75 (61%)	30 (24%)	18 (15%)	0	5
13	CM	123/126 (98%)	75 (61%)	30 (24%)	18 (15%)	0	5
14	AN	58/61 (95%)	43 (74%)	10 (17%)	5 (9%)	1	16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/61 (95%)	42 (72%)	11 (19%)	5 (9%)	1	16
15	AO	86/89 (97%)	55 (64%)	24 (28%)	7 (8%)	1	18
15	CO	86/89 (97%)	54 (63%)	25 (29%)	7 (8%)	1	18
16	AP	82/88 (93%)	62 (76%)	15 (18%)	5 (6%)	2	26
16	CP	82/88 (93%)	63 (77%)	14 (17%)	5 (6%)	2	26
17	AQ	98/105 (93%)	80 (82%)	15 (15%)	3 (3%)	5	45
17	CQ	98/105 (93%)	80 (82%)	15 (15%)	3 (3%)	5	45
18	AR	68/88 (77%)	47 (69%)	13 (19%)	8 (12%)	0	8
18	CR	68/88 (77%)	48 (71%)	12 (18%)	8 (12%)	0	8
19	AS	77/93 (83%)	42 (54%)	17 (22%)	18 (23%)	0	1
19	CS	77/93 (83%)	40 (52%)	19 (25%)	18 (23%)	0	1
20	AT	97/106 (92%)	57 (59%)	28 (29%)	12 (12%)	0	8
20	CT	97/106 (92%)	57 (59%)	27 (28%)	13 (13%)	0	6
21	AU	23/27 (85%)	13 (56%)	7 (30%)	3 (13%)	0	7
21	CU	23/27 (85%)	13 (56%)	7 (30%)	3 (13%)	0	7
25	AY	663/691 (96%)	458 (69%)	126 (19%)	79 (12%)	0	8
25	CY	663/691 (96%)	482 (73%)	125 (19%)	56 (8%)	1	16
26	B0	82/85 (96%)	63 (77%)	15 (18%)	4 (5%)	3	32
26	D0	82/85 (96%)	63 (77%)	15 (18%)	4 (5%)	3	32
27	B1	92/98 (94%)	74 (80%)	8 (9%)	10 (11%)	0	10
27	D1	92/98 (94%)	71 (77%)	12 (13%)	9 (10%)	1	13
28	B2	69/72 (96%)	40 (58%)	21 (30%)	8 (12%)	0	9
28	D2	69/72 (96%)	34 (49%)	26 (38%)	9 (13%)	0	7
29	B3	58/60 (97%)	35 (60%)	19 (33%)	4 (7%)	1	23
29	D3	58/60 (97%)	35 (60%)	19 (33%)	4 (7%)	1	23
30	B4	56/71 (79%)	27 (48%)	14 (25%)	15 (27%)	0	0
30	D4	56/71 (79%)	27 (48%)	14 (25%)	15 (27%)	0	0
31	B5	57/60 (95%)	37 (65%)	10 (18%)	10 (18%)	0	3
31	D5	57/60 (95%)	37 (65%)	10 (18%)	10 (18%)	0	3
32	B6	48/54 (89%)	21 (44%)	13 (27%)	14 (29%)	0	0
32	D6	48/54 (89%)	21 (44%)	13 (27%)	14 (29%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	B7	47/49 (96%)	38 (81%)	8 (17%)	1 (2%)	9	53
33	D7	47/49 (96%)	38 (81%)	8 (17%)	1 (2%)	9	53
34	B8	62/65 (95%)	30 (48%)	18 (29%)	14 (23%)	0	1
34	D8	62/65 (95%)	30 (48%)	18 (29%)	14 (23%)	0	1
35	B9	35/37 (95%)	25 (71%)	6 (17%)	4 (11%)	0	9
35	D9	35/37 (95%)	25 (71%)	6 (17%)	4 (11%)	0	9
38	BC	226/229 (99%)	175 (77%)	42 (19%)	9 (4%)	4	38
38	DC	226/229 (99%)	176 (78%)	40 (18%)	10 (4%)	3	35
39	BD	273/276 (99%)	184 (67%)	54 (20%)	35 (13%)	0	7
39	DD	273/276 (99%)	185 (68%)	53 (19%)	35 (13%)	0	7
40	BE	203/206 (98%)	123 (61%)	39 (19%)	41 (20%)	0	2
40	DE	203/206 (98%)	122 (60%)	39 (19%)	42 (21%)	0	2
41	BF	206/210 (98%)	138 (67%)	45 (22%)	23 (11%)	0	9
41	DF	206/210 (98%)	138 (67%)	44 (21%)	24 (12%)	0	8
42	BG	177/182 (97%)	116 (66%)	39 (22%)	22 (12%)	0	8
42	DG	177/182 (97%)	112 (63%)	44 (25%)	21 (12%)	0	8
43	BH	165/180 (92%)	89 (54%)	40 (24%)	36 (22%)	0	1
43	DH	165/180 (92%)	90 (54%)	40 (24%)	35 (21%)	0	2
45	BN	137/140 (98%)	87 (64%)	26 (19%)	24 (18%)	0	3
45	DN	137/140 (98%)	88 (64%)	25 (18%)	24 (18%)	0	3
46	BO	120/122 (98%)	97 (81%)	13 (11%)	10 (8%)	1	17
46	DO	120/122 (98%)	97 (81%)	13 (11%)	10 (8%)	1	17
47	BP	144/150 (96%)	79 (55%)	38 (26%)	27 (19%)	0	3
47	DP	144/150 (96%)	79 (55%)	39 (27%)	26 (18%)	0	3
48	BQ	139/141 (99%)	106 (76%)	25 (18%)	8 (6%)	2	27
48	DQ	139/141 (99%)	107 (77%)	25 (18%)	7 (5%)	3	31
49	BR	115/118 (98%)	81 (70%)	23 (20%)	11 (10%)	1	14
49	DR	115/118 (98%)	81 (70%)	22 (19%)	12 (10%)	1	11
50	BS	97/112 (87%)	42 (43%)	32 (33%)	23 (24%)	0	1
50	DS	97/112 (87%)	41 (42%)	34 (35%)	22 (23%)	0	1
51	BT	136/146 (93%)	77 (57%)	32 (24%)	27 (20%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	DT	136/146 (93%)	78 (57%)	31 (23%)	27 (20%)	0	2
52	BU	115/118 (98%)	78 (68%)	30 (26%)	7 (6%)	2	26
52	DU	115/118 (98%)	76 (66%)	31 (27%)	8 (7%)	1	22
53	BV	99/101 (98%)	69 (70%)	17 (17%)	13 (13%)	0	7
53	DV	99/101 (98%)	68 (69%)	18 (18%)	13 (13%)	0	7
54	BW	111/113 (98%)	78 (70%)	23 (21%)	10 (9%)	1	15
54	DW	111/113 (98%)	76 (68%)	25 (22%)	10 (9%)	1	15
55	BX	91/96 (95%)	55 (60%)	27 (30%)	9 (10%)	1	13
55	DX	91/96 (95%)	55 (60%)	26 (29%)	10 (11%)	0	10
56	BY	105/110 (96%)	44 (42%)	32 (30%)	29 (28%)	0	0
56	DY	105/110 (96%)	44 (42%)	32 (30%)	29 (28%)	0	0
57	BZ	183/206 (89%)	116 (63%)	39 (21%)	28 (15%)	0	5
57	DZ	183/206 (89%)	118 (64%)	34 (19%)	31 (17%)	0	4
All	All	12924/13672 (94%)	8641 (67%)	2723 (21%)	1560 (12%)	0	8

All (1560) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	13	ALA
2	AB	15	VAL
2	AB	74	LYS
2	AB	75	LYS
2	AB	95	GLN
2	AB	128	GLU
2	AB	129	GLU
2	AB	153	ARG
2	AB	157	ARG
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	65	ALA
3	AC	95	THR
3	AC	96	GLY

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Mol	Chain	Res	Type
3	AC	154	SER
3	AC	168	ALA
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	40	PRO
4	AD	44	GLY
4	AD	153	ARG
4	AD	186	LEU
5	AE	11	ILE
6	AF	39	LYS
6	AF	43	LEU
7	AG	8	GLU
7	AG	36	LYS
8	AH	105	ARG
9	AI	41	VAL
9	AI	61	ALA
9	AI	89	ASN
10	AJ	36	GLY
10	AJ	51	ARG
10	AJ	75	ILE
10	AJ	83	GLU
11	AK	127	LYS
12	AL	18	VAL
12	AL	28	LYS
12	AL	71	PRO
12	AL	91	LYS
13	AM	5	ALA
13	AM	7	VAL
13	AM	12	ASN
13	AM	63	THR
13	AM	67	GLU
13	AM	83	ASP
13	AM	118	ALA
13	AM	124	PRO
14	AN	14	PRO
14	AN	15	LYS
14	AN	16	PHE
14	AN	29	ARG

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Mol	Chain	Res	Type
16	AP	34	GLU
16	AP	83	GLU
17	AQ	49	GLU
18	AR	45	SER
19	AS	10	PHE
19	AS	28	LYS
19	AS	29	ARG
19	AS	61	TYR
19	AS	62	ILE
20	AT	48	LYS
20	AT	49	ALA
20	AT	99	LEU
25	AY	21	ILE
25	AY	23	ALA
25	AY	39	ILE
25	AY	66	THR
25	AY	84	THR
25	AY	85	PRO
25	AY	89	ASP
25	AY	92	ILE
25	AY	112	GLN
25	AY	121	VAL
25	AY	129	LYS
25	AY	203	GLU
25	AY	204	GLU
25	AY	205	TYR
25	AY	206	LEU
25	AY	209	ALA
25	AY	210	ARG
25	AY	276	VAL
25	AY	380	LEU
25	AY	385	THR
25	AY	399	LEU
25	AY	402	ILE
25	AY	448	GLN
25	AY	498	ILE
25	AY	505	GLY
25	AY	530	VAL
25	AY	535	PRO
25	AY	628	ARG
26	B0	74	ARG
27	B1	30	VAL

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Mol	Chain	Res	Type
27	B1	85	LEU
28	B2	18	PRO
28	B2	19	VAL
28	B2	47	ASN
28	B2	48	HIS
30	B4	26	SER
30	B4	38	LYS
30	B4	43	TYR
30	B4	44	THR
30	B4	50	VAL
30	B4	51	ASP
31	B5	4	HIS
31	B5	35	GLU
31	B5	36	CYS
31	B5	49	CYS
31	B5	53	ALA
31	B5	56	LYS
31	B5	57	VAL
32	B6	9	LEU
32	B6	18	ARG
32	B6	20	ASN
32	B6	31	PRO
32	B6	44	ARG
34	B8	31	HIS
34	B8	33	ASN
34	B8	43	GLN
34	B8	49	VAL
35	B9	2	LYS
35	B9	35	ARG
39	BD	24	ILE
39	BD	25	THR
39	BD	27	THR
39	BD	34	VAL
39	BD	36	PRO
39	BD	239	ARG
39	BD	273	ARG
40	BE	35	GLN
40	BE	71	GLY
40	BE	77	ILE
40	BE	129	HIS
40	BE	145	LYS
40	BE	189	PRO

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Mol	Chain	Res	Type
41	BF	11	VAL
41	BF	21	ALA
41	BF	89	VAL
41	BF	126	VAL
41	BF	127	GLU
41	BF	167	ALA
42	BG	4	ASP
42	BG	6	ALA
42	BG	14	GLU
42	BG	75	LYS
42	BG	81	LYS
42	BG	87	PRO
42	BG	96	ARG
42	BG	150	ASP
42	BG	181	ARG
43	BH	13	LYS
43	BH	20	ALA
43	BH	21	PRO
43	BH	46	GLU
43	BH	55	PRO
43	BH	83	TYR
43	BH	138	LYS
43	BH	155	SER
43	BH	156	ALA
43	BH	157	TYR
43	BH	160	LYS
43	BH	173	PRO
45	BN	8	GLN
45	BN	46	VAL
45	BN	47	ALA
45	BN	58	ASP
45	BN	63	THR
45	BN	130	HIS
45	BN	133	GLN
45	BN	134	ARG
46	BO	29	ASN
46	BO	35	VAL
46	BO	48	PRO
47	BP	12	ALA
47	BP	14	LYS
47	BP	31	ALA
47	BP	47	ASP

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Mol	Chain	Res	Type
47	BP	52	GLU
47	BP	57	THR
47	BP	58	THR
47	BP	111	ARG
47	BP	147	LEU
48	BQ	27	VAL
48	BQ	135	ASP
49	BR	8	ARG
49	BR	45	ARG
49	BR	107	ASP
49	BR	117	VAL
50	BS	13	ARG
50	BS	23	ARG
50	BS	57	LYS
50	BS	59	LYS
50	BS	94	TYR
50	BS	97	ARG
50	BS	102	ALA
51	BT	5	ALA
51	BT	6	LEU
51	BT	24	PRO
51	BT	30	VAL
51	BT	58	ASN
51	BT	80	SER
51	BT	91	ARG
51	BT	97	ALA
51	BT	104	ASN
51	BT	107	ASP
51	BT	129	ARG
51	BT	130	ALA
51	BT	132	LYS
51	BT	135	ALA
52	BU	91	ASP
52	BU	93	LYS
53	BV	2	PHE
53	BV	18	LEU
53	BV	46	VAL
54	BW	63	ASP
56	BY	7	VAL
56	BY	24	VAL
56	BY	38	ILE
56	BY	48	ALA

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Mol	Chain	Res	Type
56	BY	60	PHE
56	BY	67	LEU
56	BY	74	PRO
56	BY	77	PRO
56	BY	78	ALA
56	BY	99	CYS
56	BY	100	ALA
56	BY	101	LYS
56	BY	104	GLY
57	BZ	27	VAL
57	BZ	78	LYS
57	BZ	81	ARG
57	BZ	128	VAL
57	BZ	142	SER
57	BZ	152	ALA
57	BZ	166	SER
57	BZ	168	GLU
57	BZ	186	GLU
2	CB	12	GLU
2	CB	13	ALA
2	CB	15	VAL
2	CB	74	LYS
2	CB	75	LYS
2	CB	95	GLN
2	CB	128	GLU
2	CB	129	GLU
2	CB	153	ARG
2	CB	157	ARG
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	65	ALA
3	CC	95	THR
3	CC	96	GLY
3	CC	154	SER
3	CC	168	ALA
3	CC	207	VAL
4	CD	3	ARG
4	CD	13	ARG

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Mol	Chain	Res	Type
4	CD	14	ARG
4	CD	18	LYS
4	CD	30	LYS
4	CD	40	PRO
4	CD	44	GLY
4	CD	153	ARG
4	CD	186	LEU
5	CE	11	ILE
6	CF	39	LYS
6	CF	43	LEU
7	CG	8	GLU
7	CG	36	LYS
8	CH	105	ARG
9	CI	41	VAL
9	CI	61	ALA
9	CI	89	ASN
10	CJ	36	GLY
10	CJ	51	ARG
10	CJ	75	ILE
10	CJ	83	GLU
11	CK	127	LYS
12	CL	18	VAL
12	CL	28	LYS
12	CL	71	PRO
12	CL	91	LYS
13	CM	5	ALA
13	CM	7	VAL
13	CM	12	ASN
13	CM	63	THR
13	CM	67	GLU
13	CM	83	ASP
13	CM	118	ALA
13	CM	124	PRO
14	CN	15	LYS
14	CN	16	PHE
14	CN	29	ARG
16	CP	34	GLU
16	CP	83	GLU
17	CQ	49	GLU
18	CR	45	SER
19	CS	10	PHE
19	CS	28	LYS

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Mol	Chain	Res	Type
19	CS	29	ARG
19	CS	44	MET
19	CS	61	TYR
19	CS	62	ILE
20	CT	48	LYS
20	CT	49	ALA
20	CT	99	LEU
25	CY	21	ILE
25	CY	39	ILE
25	CY	129	LYS
25	CY	203	GLU
25	CY	299	VAL
25	CY	354	ARG
25	CY	366	VAL
25	CY	416	LYS
25	CY	498	ILE
25	CY	505	GLY
25	CY	681	LYS
26	D0	74	ARG
27	D1	83	GLU
28	D2	47	ASN
28	D2	48	HIS
30	D4	26	SER
30	D4	38	LYS
30	D4	43	TYR
30	D4	44	THR
30	D4	50	VAL
30	D4	51	ASP
31	D5	4	HIS
31	D5	35	GLU
31	D5	36	CYS
31	D5	49	CYS
31	D5	53	ALA
31	D5	56	LYS
31	D5	57	VAL
32	D6	9	LEU
32	D6	18	ARG
32	D6	20	ASN
32	D6	27	LYS
32	D6	31	PRO
32	D6	44	ARG
34	D8	31	HIS

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Mol	Chain	Res	Type
34	D8	33	ASN
34	D8	43	GLN
34	D8	49	VAL
35	D9	2	LYS
35	D9	35	ARG
39	DD	24	ILE
39	DD	25	THR
39	DD	27	THR
39	DD	34	VAL
39	DD	36	PRO
39	DD	239	ARG
39	DD	273	ARG
40	DE	35	GLN
40	DE	71	GLY
40	DE	77	ILE
40	DE	129	HIS
40	DE	145	LYS
40	DE	189	PRO
41	DF	11	VAL
41	DF	14	PRO
41	DF	21	ALA
41	DF	89	VAL
41	DF	126	VAL
41	DF	127	GLU
41	DF	167	ALA
42	DG	3	LEU
42	DG	48	GLU
42	DG	75	LYS
42	DG	82	LEU
42	DG	87	PRO
42	DG	96	ARG
43	DH	13	LYS
43	DH	20	ALA
43	DH	21	PRO
43	DH	46	GLU
43	DH	55	PRO
43	DH	83	TYR
43	DH	138	LYS
43	DH	155	SER
43	DH	156	ALA
43	DH	157	TYR
43	DH	160	LYS

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Mol	Chain	Res	Type
43	DH	173	PRO
45	DN	8	GLN
45	DN	46	VAL
45	DN	47	ALA
45	DN	58	ASP
45	DN	63	THR
45	DN	130	HIS
45	DN	133	GLN
45	DN	134	ARG
46	DO	29	ASN
46	DO	35	VAL
46	DO	48	PRO
47	DP	12	ALA
47	DP	14	LYS
47	DP	47	ASP
47	DP	52	GLU
47	DP	57	THR
47	DP	58	THR
47	DP	111	ARG
47	DP	147	LEU
48	DQ	27	VAL
48	DQ	135	ASP
48	DQ	140	ALA
49	DR	8	ARG
49	DR	45	ARG
49	DR	107	ASP
49	DR	117	VAL
50	DS	13	ARG
50	DS	23	ARG
50	DS	57	LYS
50	DS	59	LYS
50	DS	94	TYR
50	DS	97	ARG
50	DS	102	ALA
51	DT	5	ALA
51	DT	6	LEU
51	DT	24	PRO
51	DT	30	VAL
51	DT	58	ASN
51	DT	80	SER
51	DT	91	ARG
51	DT	97	ALA

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Mol	Chain	Res	Type
51	DT	104	ASN
51	DT	107	ASP
51	DT	129	ARG
51	DT	130	ALA
51	DT	132	LYS
51	DT	135	ALA
52	DU	91	ASP
52	DU	93	LYS
53	DV	2	PHE
53	DV	18	LEU
53	DV	46	VAL
53	DV	53	GLU
54	DW	63	ASP
56	DY	7	VAL
56	DY	24	VAL
56	DY	38	ILE
56	DY	48	ALA
56	DY	60	PHE
56	DY	67	LEU
56	DY	74	PRO
56	DY	77	PRO
56	DY	78	ALA
56	DY	99	CYS
56	DY	100	ALA
56	DY	104	GLY
57	DZ	38	TYR
57	DZ	80	ARG
57	DZ	112	ARG
57	DZ	146	ILE
57	DZ	168	GLU
57	DZ	177	PRO
57	DZ	186	GLU
2	AB	18	GLY
2	AB	20	GLU
2	AB	78	GLN
2	AB	190	THR
2	AB	236	TYR
3	AC	66	VAL
3	AC	107	GLN
3	AC	147	LYS
3	AC	175	LEU
3	AC	205	GLY

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Mol	Chain	Res	Type
4	AD	5	ILE
4	AD	41	GLY
4	AD	69	GLY
4	AD	156	GLU
4	AD	166	LYS
4	AD	171	GLY
6	AF	34	GLY
7	AG	7	ALA
7	AG	9	VAL
7	AG	82	GLY
7	AG	90	GLU
7	AG	109	ASN
8	AH	121	ASP
9	AI	55	ALA
9	AI	85	LEU
9	AI	120	ARG
10	AJ	33	GLN
10	AJ	57	LYS
10	AJ	59	SER
11	AK	49	GLY
11	AK	88	GLY
12	AL	37	CYS
12	AL	38	THR
12	AL	46	LYS
12	AL	121	GLY
13	AM	55	ARG
13	AM	70	LEU
13	AM	100	GLY
13	AM	114	ARG
15	AO	14	GLU
15	AO	24	SER
18	AR	41	LYS
18	AR	68	LYS
19	AS	26	GLY
19	AS	44	MET
19	AS	46	GLY
19	AS	54	GLY
19	AS	73	GLU
19	AS	80	TYR
20	AT	63	ILE
20	AT	74	LYS
20	AT	97	ALA

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Mol	Chain	Res	Type
21	AU	3	LYS
21	AU	6	ARG
25	AY	25	LYS
25	AY	42	ILE
25	AY	88	VAL
25	AY	111	SER
25	AY	114	VAL
25	AY	119	GLU
25	AY	137	ASN
25	AY	211	GLU
25	AY	347	GLY
25	AY	416	LYS
25	AY	418	LYS
25	AY	447	GLY
25	AY	502	GLY
25	AY	519	ARG
25	AY	614	GLU
25	AY	680	PRO
26	B0	13	GLY
26	B0	75	LEU
27	B1	28	GLY
27	B1	53	VAL
27	B1	84	GLY
28	B2	20	GLU
28	B2	43	GLN
29	B3	3	ARG
29	B3	13	ILE
29	B3	45	GLY
30	B4	5	ILE
30	B4	20	ASN
30	B4	48	ARG
30	B4	57	GLU
31	B5	58	LEU
31	B5	59	GLU
32	B6	7	ILE
32	B6	16	CYS
32	B6	27	LYS
32	B6	28	ARG
32	B6	36	LEU
32	B6	52	VAL
34	B8	3	LYS
34	B8	34	TRP

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Mol	Chain	Res	Type
38	BC	14	LYS
38	BC	127	LYS
39	BD	3	VAL
39	BD	41	GLY
39	BD	70	TRP
39	BD	127	VAL
39	BD	225	ALA
39	BD	234	GLY
39	BD	236	GLY
39	BD	242	ARG
39	BD	246	PRO
39	BD	267	SER
39	BD	268	ARG
40	BE	46	ALA
40	BE	54	GLN
40	BE	64	LYS
40	BE	66	HIS
40	BE	69	LYS
40	BE	70	ALA
40	BE	72	VAL
40	BE	83	ASP
40	BE	88	GLY
40	BE	90	THR
40	BE	185	LYS
40	BE	186	GLY
41	BF	5	ALA
41	BF	10	PRO
41	BF	14	PRO
41	BF	85	GLY
41	BF	90	PHE
41	BF	134	GLY
41	BF	206	ILE
41	BF	207	GLY
42	BG	34	LEU
42	BG	110	ALA
42	BG	163	ALA
42	BG	166	ASP
43	BH	18	GLU
43	BH	41	MET
43	BH	45	VAL
43	BH	98	LEU
43	BH	154	PRO

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Mol	Chain	Res	Type
43	BH	169	VAL
43	BH	174	GLY
43	BH	176	ALA
45	BN	57	ALA
45	BN	81	GLY
46	BO	5	GLN
46	BO	13	ASN
46	BO	54	GLU
46	BO	68	GLU
46	BO	120	GLU
47	BP	17	LYS
47	BP	19	VAL
47	BP	48	PRO
47	BP	49	ARG
47	BP	70	GLN
47	BP	83	VAL
47	BP	98	GLU
47	BP	123	LEU
48	BQ	137	TYR
48	BQ	139	GLU
48	BQ	140	ALA
49	BR	14	SER
49	BR	58	GLY
49	BR	88	ARG
50	BS	39	ILE
50	BS	85	VAL
50	BS	100	ALA
50	BS	103	GLU
50	BS	104	GLY
51	BT	15	VAL
51	BT	28	VAL
51	BT	41	ARG
51	BT	55	ASN
51	BT	92	GLY
51	BT	105	LEU
51	BT	133	GLU
53	BV	19	LYS
53	BV	22	VAL
53	BV	31	ALA
53	BV	53	GLU
53	BV	54	GLY
53	BV	67	GLY

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Mol	Chain	Res	Type
54	BW	6	ILE
54	BW	18	ARG
54	BW	67	ASP
55	BX	12	VAL
55	BX	87	GLN
56	BY	3	VAL
56	BY	30	VAL
56	BY	37	VAL
56	BY	39	VAL
56	BY	41	GLY
56	BY	98	VAL
56	BY	107	ASP
57	BZ	80	ARG
57	BZ	104	PHE
57	BZ	112	ARG
57	BZ	120	ILE
57	BZ	121	HIS
57	BZ	146	ILE
57	BZ	148	ASP
57	BZ	159	PRO
57	BZ	185	GLU
2	CB	18	GLY
2	CB	20	GLU
2	CB	78	GLN
2	CB	236	TYR
3	CC	26	LYS
3	CC	66	VAL
3	CC	107	GLN
3	CC	147	LYS
3	CC	156	ARG
3	CC	160	ALA
3	CC	175	LEU
3	CC	205	GLY
4	CD	5	ILE
4	CD	41	GLY
4	CD	69	GLY
4	CD	156	GLU
4	CD	166	LYS
4	CD	171	GLY
6	CF	34	GLY
7	CG	7	ALA
7	CG	9	VAL

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Mol	Chain	Res	Type
7	CG	82	GLY
7	CG	90	GLU
7	CG	109	ASN
8	CH	121	ASP
9	CI	55	ALA
9	CI	85	LEU
9	CI	120	ARG
10	CJ	33	GLN
10	CJ	57	LYS
10	CJ	59	SER
11	CK	49	GLY
11	CK	50	TYR
11	CK	88	GLY
12	CL	37	CYS
12	CL	38	THR
12	CL	45	PRO
12	CL	46	LYS
12	CL	121	GLY
13	CM	55	ARG
13	CM	70	LEU
13	CM	100	GLY
13	CM	114	ARG
14	CN	14	PRO
15	CO	14	GLU
15	CO	24	SER
15	CO	86	GLY
18	CR	38	GLU
18	CR	41	LYS
18	CR	68	LYS
19	CS	26	GLY
19	CS	46	GLY
19	CS	54	GLY
19	CS	80	TYR
20	CT	63	ILE
20	CT	74	LYS
20	CT	82	SER
20	CT	97	ALA
21	CU	3	LYS
21	CU	6	ARG
25	CY	23	ALA
25	CY	34	TYR
25	CY	85	PRO

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Mol	Chain	Res	Type
25	CY	92	ILE
25	CY	112	GLN
25	CY	192	LEU
25	CY	289	ILE
25	CY	297	GLU
25	CY	371	ALA
25	CY	401	SER
25	CY	479	PRO
25	CY	504	ARG
25	CY	530	VAL
25	CY	531	GLY
25	CY	532	GLY
25	CY	559	PRO
25	CY	662	LYS
25	CY	674	ASP
25	CY	680	PRO
26	D0	13	GLY
26	D0	75	LEU
27	D1	30	VAL
27	D1	53	VAL
27	D1	84	GLY
27	D1	85	LEU
27	D1	95	LEU
28	D2	58	ALA
29	D3	3	ARG
29	D3	13	ILE
29	D3	45	GLY
29	D3	52	HIS
30	D4	5	ILE
30	D4	20	ASN
30	D4	40	HIS
30	D4	48	ARG
30	D4	57	GLU
31	D5	58	LEU
31	D5	59	GLU
32	D6	7	ILE
32	D6	16	CYS
32	D6	28	ARG
32	D6	36	LEU
32	D6	52	VAL
34	D8	3	LYS
34	D8	34	TRP

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Mol	Chain	Res	Type
34	D8	40	GLU
38	DC	14	LYS
38	DC	17	PRO
38	DC	127	LYS
39	DD	3	VAL
39	DD	41	GLY
39	DD	70	TRP
39	DD	127	VAL
39	DD	225	ALA
39	DD	234	GLY
39	DD	236	GLY
39	DD	242	ARG
39	DD	246	PRO
39	DD	267	SER
39	DD	268	ARG
40	DE	46	ALA
40	DE	54	GLN
40	DE	64	LYS
40	DE	66	HIS
40	DE	69	LYS
40	DE	70	ALA
40	DE	72	VAL
40	DE	83	ASP
40	DE	88	GLY
40	DE	90	THR
40	DE	185	LYS
40	DE	186	GLY
41	DF	5	ALA
41	DF	10	PRO
41	DF	85	GLY
41	DF	90	PHE
41	DF	134	GLY
41	DF	206	ILE
41	DF	207	GLY
42	DG	4	ASP
42	DG	14	GLU
42	DG	76	SER
42	DG	81	LYS
43	DH	18	GLU
43	DH	45	VAL
43	DH	98	LEU
43	DH	154	PRO

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Mol	Chain	Res	Type
43	DH	169	VAL
43	DH	174	GLY
43	DH	176	ALA
45	DN	57	ALA
45	DN	81	GLY
46	DO	5	GLN
46	DO	13	ASN
46	DO	54	GLU
46	DO	68	GLU
46	DO	120	GLU
47	DP	19	VAL
47	DP	31	ALA
47	DP	48	PRO
47	DP	49	ARG
47	DP	70	GLN
47	DP	83	VAL
47	DP	123	LEU
48	DQ	137	TYR
48	DQ	139	GLU
49	DR	14	SER
49	DR	58	GLY
49	DR	88	ARG
50	DS	39	ILE
50	DS	85	VAL
50	DS	100	ALA
50	DS	103	GLU
50	DS	104	GLY
51	DT	15	VAL
51	DT	17	THR
51	DT	28	VAL
51	DT	41	ARG
51	DT	55	ASN
51	DT	92	GLY
51	DT	105	LEU
51	DT	133	GLU
53	DV	19	LYS
53	DV	22	VAL
53	DV	31	ALA
53	DV	54	GLY
53	DV	67	GLY
54	DW	6	ILE
54	DW	18	ARG

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Mol	Chain	Res	Type
54	DW	67	ASP
55	DX	12	VAL
55	DX	87	GLN
56	DY	3	VAL
56	DY	30	VAL
56	DY	37	VAL
56	DY	39	VAL
56	DY	41	GLY
56	DY	98	VAL
56	DY	101	LYS
56	DY	107	ASP
57	DZ	12	GLY
57	DZ	30	ASN
57	DZ	31	ARG
57	DZ	37	VAL
57	DZ	49	ARG
57	DZ	136	PHE
57	DZ	142	SER
57	DZ	181	GLU
57	DZ	185	GLU
2	AB	24	TRP
2	AB	63	MET
2	AB	64	ARG
2	AB	120	ALA
2	AB	131	PRO
2	AB	237	ALA
3	AC	4	LYS
3	AC	26	LYS
3	AC	129	ALA
3	AC	130	VAL
3	AC	135	LYS
3	AC	156	ARG
3	AC	160	ALA
4	AD	4	TYR
4	AD	47	ARG
5	AE	71	LEU
7	AG	80	VAL
7	AG	121	ALA
8	AH	2	LEU
9	AI	34	ASN
9	AI	94	ALA
10	AJ	61	GLU

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Mol	Chain	Res	Type
10	AJ	85	LEU
11	AK	45	GLY
11	AK	50	TYR
11	AK	57	THR
11	AK	62	GLN
12	AL	27	LEU
12	AL	45	PRO
12	AL	51	ALA
12	AL	81	SER
12	AL	89	ARG
12	AL	116	SER
13	AM	53	VAL
13	AM	116	THR
15	AO	77	ARG
15	AO	84	LYS
15	AO	86	GLY
17	AQ	25	ARG
17	AQ	66	SER
18	AR	38	GLU
18	AR	87	ARG
19	AS	14	HIS
19	AS	27	GLU
19	AS	81	ARG
20	AT	71	THR
20	AT	82	SER
20	AT	96	GLY
20	AT	98	PRO
21	AU	25	LYS
25	AY	6	GLU
25	AY	24	GLY
25	AY	99	ARG
25	AY	142	THR
25	AY	360	ALA
25	AY	471	LYS
25	AY	486	THR
25	AY	497	PHE
25	AY	559	PRO
25	AY	681	LYS
29	B3	52	HIS
30	B4	40	HIS
30	B4	46	GLN
32	B6	19	ARG

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Mol	Chain	Res	Type
32	B6	43	CYS
33	B7	17	GLY
34	B8	37	SER
34	B8	40	GLU
34	B8	64	TYR
35	B9	12	ASP
38	BC	17	PRO
38	BC	142	LYS
39	BD	12	SER
39	BD	19	ALA
39	BD	30	GLU
39	BD	129	ASN
39	BD	206	LEU
39	BD	223	GLY
39	BD	224	ALA
40	BE	86	PRO
40	BE	94	GLU
40	BE	118	LYS
40	BE	121	ASN
40	BE	130	GLY
40	BE	162	ALA
41	BF	3	GLU
41	BF	69	HIS
41	BF	84	VAL
41	BF	104	LYS
41	BF	168	ARG
41	BF	169	ASN
42	BG	10	LYS
42	BG	82	LEU
42	BG	97	ASP
43	BH	42	ARG
43	BH	47	GLU
43	BH	48	GLY
43	BH	69	ARG
43	BH	81	GLU
43	BH	171	LEU
45	BN	59	LYS
45	BN	125	GLY
46	BO	89	ASN
47	BP	23	PRO
47	BP	135	LEU
48	BQ	54	MET

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Mol	Chain	Res	Type
49	BR	12	ARG
50	BS	88	ASP
50	BS	96	GLY
50	BS	107	GLU
51	BT	11	GLU
51	BT	12	SER
51	BT	17	THR
51	BT	88	ILE
52	BU	83	LEU
53	BV	16	PRO
53	BV	55	ALA
54	BW	25	ARG
54	BW	60	ASN
54	BW	72	LYS
54	BW	93	ALA
54	BW	110	LYS
55	BX	19	ALA
55	BX	33	LYS
56	BY	81	LYS
56	BY	92	ASN
57	BZ	5	LEU
57	BZ	134	PRO
57	BZ	149	SER
57	BZ	158	PRO
2	CB	24	TRP
2	CB	63	MET
2	CB	64	ARG
2	CB	76	GLN
2	CB	120	ALA
2	CB	131	PRO
2	CB	190	THR
2	CB	207	ALA
2	CB	216	SER
2	CB	237	ALA
3	CC	4	LYS
3	CC	129	ALA
3	CC	130	VAL
3	CC	135	LYS
4	CD	4	TYR
4	CD	47	ARG
5	CE	71	LEU
7	CG	80	VAL

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Mol	Chain	Res	Type
7	CG	117	ALA
7	CG	121	ALA
8	CH	2	LEU
9	CI	34	ASN
9	CI	94	ALA
10	CJ	61	GLU
10	CJ	85	LEU
11	CK	45	GLY
11	CK	57	THR
11	CK	62	GLN
12	CL	23	LYS
12	CL	27	LEU
12	CL	51	ALA
12	CL	81	SER
12	CL	89	ARG
12	CL	116	SER
13	CM	53	VAL
13	CM	121	LYS
15	CO	77	ARG
15	CO	84	LYS
17	CQ	25	ARG
18	CR	69	THR
18	CR	87	ARG
19	CS	14	HIS
19	CS	27	GLU
19	CS	73	GLU
19	CS	81	ARG
20	CT	71	THR
20	CT	96	GLY
20	CT	98	PRO
21	CU	25	LYS
25	CY	66	THR
25	CY	84	THR
25	CY	91	THR
25	CY	127	LYS
25	CY	174	PHE
25	CY	380	LEU
25	CY	519	ARG
25	CY	554	PRO
25	CY	671	MET
26	D0	42	GLY
27	D1	24	ALA

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Mol	Chain	Res	Type
28	D2	20	GLU
28	D2	49	LYS
30	D4	46	GLN
32	D6	19	ARG
32	D6	43	CYS
34	D8	37	SER
34	D8	64	TYR
38	DC	142	LYS
39	DD	12	SER
39	DD	19	ALA
39	DD	129	ASN
39	DD	206	LEU
39	DD	224	ALA
40	DE	86	PRO
40	DE	118	LYS
40	DE	130	GLY
40	DE	162	ALA
41	DF	3	GLU
41	DF	69	HIS
41	DF	104	LYS
41	DF	168	ARG
41	DF	169	ASN
42	DG	47	LYS
43	DH	41	MET
43	DH	42	ARG
43	DH	47	GLU
43	DH	48	GLY
43	DH	81	GLU
43	DH	171	LEU
45	DN	59	LYS
45	DN	125	GLY
47	DP	17	LYS
47	DP	23	PRO
47	DP	98	GLU
47	DP	135	LEU
48	DQ	54	MET
49	DR	12	ARG
50	DS	24	LEU
50	DS	88	ASP
50	DS	107	GLU
51	DT	12	SER
51	DT	88	ILE

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Mol	Chain	Res	Type
52	DU	83	LEU
53	DV	16	PRO
53	DV	55	ALA
54	DW	25	ARG
54	DW	60	ASN
54	DW	72	LYS
54	DW	93	ALA
54	DW	110	LYS
55	DX	24	GLY
55	DX	33	LYS
56	DY	81	LYS
56	DY	92	ASN
57	DZ	17	ALA
57	DZ	18	LEU
57	DZ	108	PRO
2	AB	76	GLN
2	AB	130	ARG
2	AB	171	ALA
2	AB	207	ALA
2	AB	216	SER
3	AC	165	THR
4	AD	9	CYS
5	AE	77	PRO
7	AG	52	GLU
7	AG	117	ALA
9	AI	44	VAL
10	AJ	19	SER
11	AK	123	LYS
12	AL	23	LYS
12	AL	79	GLU
13	AM	106	ASN
13	AM	121	LYS
18	AR	31	LEU
18	AR	69	THR
20	AT	73	HIS
25	AY	34	TYR
25	AY	65	ILE
25	AY	120	THR
25	AY	371	ALA
25	AY	400	GLU
25	AY	645	ALA
25	AY	666	ARG

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Mol	Chain	Res	Type
25	AY	671	MET
26	B0	42	GLY
27	B1	52	ARG
27	B1	63	ALA
28	B2	21	LEU
32	B6	23	THR
34	B8	29	LYS
34	B8	57	ARG
35	B9	30	PRO
38	BC	38	PHE
38	BC	110	ASP
39	BD	28	GLU
39	BD	35	LYS
39	BD	196	VAL
39	BD	260	ARG
40	BE	2	LYS
40	BE	30	PRO
40	BE	53	PRO
40	BE	57	LYS
40	BE	98	PRO
40	BE	180	ASN
41	BF	67	GLN
42	BG	8	LYS
42	BG	43	LEU
42	BG	115	ARG
43	BH	85	LYS
43	BH	151	ILE
45	BN	40	PRO
45	BN	77	GLY
45	BN	127	ASP
45	BN	129	PRO
45	BN	136	GLU
47	BP	89	ALA
48	BQ	53	ALA
50	BS	24	LEU
50	BS	80	LEU
51	BT	57	PHE
52	BU	114	LYS
55	BX	11	PRO
55	BX	24	GLY
55	BX	42	ALA
56	BY	106	LEU

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Mol	Chain	Res	Type
57	BZ	31	ARG
57	BZ	62	PRO
57	BZ	85	HIS
2	CB	130	ARG
2	CB	171	ALA
3	CC	165	THR
5	CE	72	GLN
5	CE	77	PRO
7	CG	116	ALA
10	CJ	19	SER
11	CK	123	LYS
12	CL	72	GLY
12	CL	79	GLU
13	CM	106	ASN
13	CM	116	THR
14	CN	17	LYS
16	CP	54	GLU
17	CQ	66	SER
18	CR	31	LEU
19	CS	30	LEU
20	CT	73	HIS
25	CY	67	ALA
25	CY	87	HIS
25	CY	133	ILE
25	CY	288	PRO
25	CY	303	PRO
25	CY	399	LEU
27	D1	63	ALA
28	D2	18	PRO
28	D2	68	ARG
32	D6	23	THR
34	D8	29	LYS
35	D9	12	ASP
35	D9	30	PRO
39	DD	26	LYS
39	DD	28	GLU
39	DD	30	GLU
39	DD	35	LYS
39	DD	223	GLY
39	DD	260	ARG
40	DE	2	LYS
40	DE	30	PRO

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Mol	Chain	Res	Type
40	DE	53	PRO
40	DE	57	LYS
40	DE	94	GLU
40	DE	98	PRO
40	DE	121	ASN
40	DE	180	ASN
41	DF	67	GLN
41	DF	84	VAL
42	DG	12	TYR
42	DG	50	ALA
42	DG	181	ARG
43	DH	69	ARG
43	DH	85	LYS
43	DH	151	ILE
45	DN	40	PRO
45	DN	127	ASP
45	DN	129	PRO
45	DN	136	GLU
46	DO	89	ASN
47	DP	36	LYS
47	DP	89	ALA
50	DS	80	LEU
50	DS	96	GLY
51	DT	11	GLU
52	DU	27	LEU
52	DU	114	LYS
55	DX	11	PRO
55	DX	19	ALA
56	DY	106	LEU
57	DZ	53	ILE
57	DZ	81	ARG
57	DZ	95	PRO
2	AB	9	GLU
2	AB	152	PHE
4	AD	32	ALA
6	AF	36	ARG
7	AG	113	GLU
7	AG	116	ALA
8	AH	20	TYR
10	AJ	84	GLN
11	AK	95	ILE
12	AL	29	GLY

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Mol	Chain	Res	Type
12	AL	47	LYS
13	AM	4	ILE
14	AN	17	LYS
15	AO	76	GLU
16	AP	54	GLU
16	AP	76	GLN
19	AS	30	LEU
20	AT	61	SER
25	AY	163	VAL
25	AY	239	GLU
25	AY	257	PRO
25	AY	277	VAL
25	AY	406	GLU
25	AY	415	PRO
25	AY	483	TYR
25	AY	504	ARG
25	AY	598	ASP
27	B1	95	LEU
31	B5	54	GLY
34	B8	58	ILE
38	BC	12	LEU
39	BD	26	LYS
40	BE	17	ASP
40	BE	29	GLY
40	BE	55	ASN
40	BE	117	MET
41	BF	66	PRO
43	BH	84	SER
43	BH	126	PRO
43	BH	170	ARG
45	BN	51	PHE
45	BN	95	PRO
45	BN	135	PRO
47	BP	36	LYS
47	BP	71	VAL
50	BS	62	LYS
50	BS	90	GLY
50	BS	99	LYS
51	BT	81	PRO
52	BU	27	LEU
53	BV	78	LYS
54	BW	111	HIS

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Mol	Chain	Res	Type
56	BY	75	ILE
2	CB	9	GLU
3	CC	29	TYR
4	CD	9	CYS
6	CF	36	ARG
7	CG	52	GLU
9	CI	44	VAL
11	CK	95	ILE
12	CL	47	LYS
13	CM	4	ILE
13	CM	68	GLY
15	CO	76	GLU
16	CP	56	ALA
20	CT	61	SER
25	CY	172	ASP
25	CY	183	MET
25	CY	406	GLU
28	D2	14	ARG
28	D2	60	LEU
33	D7	17	GLY
34	D8	42	ARG
34	D8	57	ARG
34	D8	58	ILE
38	DC	38	PHE
38	DC	101	ILE
38	DC	110	ASP
39	DD	196	VAL
40	DE	17	ASP
40	DE	29	GLY
40	DE	55	ASN
40	DE	144	ARG
41	DF	66	PRO
42	DG	104	GLU
42	DG	110	ALA
42	DG	120	LEU
42	DG	146	TYR
43	DH	126	PRO
43	DH	170	ARG
45	DN	51	PHE
45	DN	135	PRO
47	DP	71	VAL
49	DR	42	LYS

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Mol	Chain	Res	Type
50	DS	62	LYS
50	DS	90	GLY
50	DS	99	LYS
51	DT	57	PHE
51	DT	81	PRO
52	DU	85	LYS
53	DV	78	LYS
54	DW	9	TYR
55	DX	42	ALA
55	DX	85	PRO
56	DY	75	ILE
57	DZ	134	PRO
3	AC	29	TYR
3	AC	73	PRO
3	AC	206	GLU
4	AD	7	PRO
4	AD	179	GLU
5	AE	138	ALA
5	AE	140	ARG
7	AG	62	PHE
13	AM	68	GLY
16	AP	56	ALA
19	AS	42	PRO
25	AY	171	GLU
25	AY	303	PRO
27	B1	27	GLU
27	B1	87	PRO
34	B8	42	ARG
38	BC	101	ILE
38	BC	120	VAL
39	BD	45	ASN
40	BE	34	VAL
40	BE	52	LEU
42	BG	50	ALA
42	BG	99	MET
43	BH	49	VAL
46	BO	98	VAL
47	BP	43	GLY
48	BQ	52	VAL
49	BR	42	LYS
55	BX	85	PRO
56	BY	59	GLY

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Mol	Chain	Res	Type
2	CB	152	PHE
10	CJ	84	GLN
12	CL	29	GLY
16	CP	76	GLN
19	CS	42	PRO
20	CT	95	ALA
25	CY	257	PRO
25	CY	470	PHE
25	CY	598	ASP
25	CY	628	ARG
38	DC	120	VAL
39	DD	32	SER
40	DE	34	VAL
40	DE	52	LEU
43	DH	84	SER
45	DN	77	GLY
45	DN	95	PRO
46	DO	98	VAL
47	DP	43	GLY
49	DR	102	GLU
55	DX	6	ASP
56	DY	59	GLY
57	DZ	14	LYS
57	DZ	154	ASP
57	DZ	158	PRO
57	DZ	165	VAL
57	DZ	166	SER
5	AE	154	GLY
19	AS	41	VAL
25	AY	196	ILE
25	AY	408	VAL
25	AY	520	GLY
25	AY	636	PRO
30	B4	19	GLY
30	B4	28	LYS
30	B4	29	PRO
34	B8	63	PRO
45	BN	5	VAL
49	BR	106	GLY
53	BV	50	PRO
55	BX	59	VAL
56	BY	31	LEU

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Mol	Chain	Res	Type
3	CC	73	PRO
4	CD	7	PRO
5	CE	154	GLY
19	CS	41	VAL
25	CY	160	ARG
30	D4	19	GLY
30	D4	28	LYS
30	D4	29	PRO
31	D5	54	GLY
34	D8	63	PRO
40	DE	134	ILE
42	DG	42	GLY
43	DH	49	VAL
45	DN	5	VAL
45	DN	44	PRO
48	DQ	52	VAL
49	DR	46	GLY
49	DR	106	GLY
50	DS	35	ILE
52	DU	26	GLY
56	DY	31	LEU
57	DZ	15	PRO
2	AB	232	PRO
3	AC	158	GLY
12	AL	72	GLY
12	AL	88	GLY
25	AY	305	PRO
25	AY	560	VAL
28	B2	41	ILE
39	BD	180	GLY
39	BD	228	PRO
40	BE	14	ILE
40	BE	134	ILE
43	BH	111	HIS
45	BN	11	PRO
45	BN	44	PRO
47	BP	109	GLY
49	BR	46	GLY
50	BS	35	ILE
52	BU	26	GLY
57	BZ	83	PRO
2	CB	232	PRO

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Mol	Chain	Res	Type
12	CL	88	GLY
25	CY	277	VAL
25	CY	408	VAL
27	D1	22	GLY
39	DD	180	GLY
39	DD	228	PRO
40	DE	61	ARG
41	DF	82	ILE
42	DG	140	ILE
45	DN	11	PRO
45	DN	60	ILE
47	DP	109	GLY
53	DV	50	PRO
55	DX	59	VAL
2	AB	26	PRO
40	BE	61	ARG
40	BE	75	VAL
40	BE	197	ILE
43	BH	142	GLY
56	BY	66	PRO
57	BZ	133	ILE
57	BZ	165	VAL
40	DE	14	ILE
40	DE	75	VAL
42	DG	101	ILE
43	DH	111	HIS
47	DP	69	GLY
50	DS	22	GLY
3	AC	55	VAL
19	AS	9	VAL
39	BD	244	ARG
41	BF	64	ILE
42	BG	129	GLY
43	BH	14	GLY
45	BN	60	ILE
47	BP	69	GLY
50	BS	22	GLY
52	BU	90	VAL
56	BY	53	PRO
2	CB	26	PRO
3	CC	55	VAL
3	CC	158	GLY

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Mol	Chain	Res	Type
8	CH	57	PRO
15	CO	87	ILE
25	CY	405	PRO
38	DC	122	GLY
39	DD	244	ARG
43	DH	14	GLY
43	DH	142	GLY
52	DU	90	VAL
56	DY	27	VAL
56	DY	53	PRO
56	DY	66	PRO
57	DZ	42	VAL
57	DZ	120	ILE
15	AO	87	ILE
18	AR	37	VAL
43	BH	24	VAL
47	BP	11	GLY
47	BP	146	VAL
50	BS	14	VAL
56	BY	27	VAL
18	CR	37	VAL
19	CS	9	VAL
38	DC	139	PRO
40	DE	56	PRO
40	DE	190	GLY
41	DF	64	ILE
47	DP	11	GLY
39	BD	245	PRO
39	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%)	184 (91%)	18 (9%)	12	51
2	CB	202/220 (92%)	183 (91%)	19 (9%)	11	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AC	160/188 (85%)	139 (87%)	21 (13%)	5	31
3	CC	160/188 (85%)	139 (87%)	21 (13%)	5	31
4	AD	180/181 (99%)	160 (89%)	20 (11%)	8	39
4	CD	180/181 (99%)	160 (89%)	20 (11%)	8	39
5	AE	115/123 (94%)	104 (90%)	11 (10%)	10	46
5	CE	115/123 (94%)	104 (90%)	11 (10%)	10	46
6	AF	90/90 (100%)	83 (92%)	7 (8%)	16	56
6	CF	90/90 (100%)	83 (92%)	7 (8%)	16	56
7	AG	126/127 (99%)	117 (93%)	9 (7%)	18	60
7	CG	126/127 (99%)	118 (94%)	8 (6%)	22	64
8	AH	119/119 (100%)	110 (92%)	9 (8%)	16	57
8	CH	119/119 (100%)	110 (92%)	9 (8%)	16	57
9	AI	98/99 (99%)	91 (93%)	7 (7%)	18	60
9	CI	98/99 (99%)	91 (93%)	7 (7%)	18	60
10	AJ	88/92 (96%)	77 (88%)	11 (12%)	6	33
10	CJ	88/92 (96%)	76 (86%)	12 (14%)	5	30
11	AK	90/99 (91%)	87 (97%)	3 (3%)	45	79
11	CK	90/99 (91%)	87 (97%)	3 (3%)	45	79
12	AL	104/109 (95%)	93 (89%)	11 (11%)	8	42
12	CL	104/109 (95%)	93 (89%)	11 (11%)	8	42
13	AM	99/101 (98%)	90 (91%)	9 (9%)	12	49
13	CM	99/101 (98%)	90 (91%)	9 (9%)	12	49
14	AN	49/50 (98%)	44 (90%)	5 (10%)	9	43
14	CN	49/50 (98%)	44 (90%)	5 (10%)	9	43
15	AO	79/80 (99%)	73 (92%)	6 (8%)	16	57
15	CO	79/80 (99%)	73 (92%)	6 (8%)	16	57
16	AP	72/74 (97%)	68 (94%)	4 (6%)	26	68
16	CP	72/74 (97%)	68 (94%)	4 (6%)	26	68
17	AQ	94/97 (97%)	89 (95%)	5 (5%)	28	69
17	CQ	94/97 (97%)	88 (94%)	6 (6%)	22	64
18	AR	61/77 (79%)	58 (95%)	3 (5%)	31	71

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	CR	61/77 (79%)	58 (95%)	3 (5%)	31	71
19	AS	69/80 (86%)	60 (87%)	9 (13%)	5	32
19	CS	69/80 (86%)	60 (87%)	9 (13%)	5	32
20	AT	76/82 (93%)	66 (87%)	10 (13%)	5	31
20	CT	76/82 (93%)	67 (88%)	9 (12%)	6	36
21	AU	19/22 (86%)	18 (95%)	1 (5%)	28	69
21	CU	19/22 (86%)	18 (95%)	1 (5%)	28	69
25	AY	563/582 (97%)	495 (88%)	68 (12%)	6	34
25	CY	563/582 (97%)	498 (88%)	65 (12%)	7	37
26	B0	66/67 (98%)	59 (89%)	7 (11%)	8	42
26	D0	66/67 (98%)	59 (89%)	7 (11%)	8	42
27	B1	78/83 (94%)	68 (87%)	10 (13%)	5	32
27	D1	78/83 (94%)	72 (92%)	6 (8%)	16	56
28	B2	66/67 (98%)	60 (91%)	6 (9%)	12	49
28	D2	66/67 (98%)	61 (92%)	5 (8%)	16	57
29	B3	51/52 (98%)	48 (94%)	3 (6%)	24	66
29	D3	51/52 (98%)	48 (94%)	3 (6%)	24	66
30	B4	51/63 (81%)	39 (76%)	12 (24%)	1	7
30	D4	51/63 (81%)	39 (76%)	12 (24%)	1	7
31	B5	51/52 (98%)	47 (92%)	4 (8%)	16	56
31	D5	51/52 (98%)	47 (92%)	4 (8%)	16	56
32	B6	49/52 (94%)	39 (80%)	10 (20%)	1	11
32	D6	49/52 (94%)	39 (80%)	10 (20%)	1	11
33	B7	41/42 (98%)	36 (88%)	5 (12%)	6	34
33	D7	41/42 (98%)	36 (88%)	5 (12%)	6	34
34	B8	53/55 (96%)	45 (85%)	8 (15%)	3	25
34	D8	53/55 (96%)	44 (83%)	9 (17%)	2	19
35	B9	34/34 (100%)	32 (94%)	2 (6%)	24	66
35	D9	34/34 (100%)	32 (94%)	2 (6%)	24	66
38	BC	180/181 (99%)	169 (94%)	11 (6%)	23	65
38	DC	180/181 (99%)	168 (93%)	12 (7%)	20	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	BD	217/218 (100%)	182 (84%)	35 (16%)	3	22
39	DD	217/218 (100%)	182 (84%)	35 (16%)	3	22
40	BE	165/166 (99%)	140 (85%)	25 (15%)	3	25
40	DE	165/166 (99%)	140 (85%)	25 (15%)	3	25
41	BF	165/166 (99%)	154 (93%)	11 (7%)	20	63
41	DF	165/166 (99%)	154 (93%)	11 (7%)	20	63
42	BG	155/156 (99%)	127 (82%)	28 (18%)	2	15
42	DG	155/156 (99%)	126 (81%)	29 (19%)	2	14
43	BH	136/148 (92%)	125 (92%)	11 (8%)	15	54
43	DH	136/148 (92%)	125 (92%)	11 (8%)	15	54
45	BN	117/119 (98%)	103 (88%)	14 (12%)	6	35
45	DN	117/119 (98%)	103 (88%)	14 (12%)	6	35
46	BO	100/100 (100%)	94 (94%)	6 (6%)	24	66
46	DO	100/100 (100%)	94 (94%)	6 (6%)	24	66
47	BP	112/116 (97%)	93 (83%)	19 (17%)	2	19
47	DP	112/116 (97%)	92 (82%)	20 (18%)	2	16
48	BQ	111/111 (100%)	101 (91%)	10 (9%)	12	50
48	DQ	111/111 (100%)	101 (91%)	10 (9%)	12	50
49	BR	100/101 (99%)	89 (89%)	11 (11%)	8	40
49	DR	100/101 (99%)	87 (87%)	13 (13%)	5	32
50	BS	77/88 (88%)	69 (90%)	8 (10%)	9	42
50	DS	77/88 (88%)	69 (90%)	8 (10%)	9	42
51	BT	120/127 (94%)	96 (80%)	24 (20%)	1	11
51	DT	120/127 (94%)	96 (80%)	24 (20%)	1	11
52	BU	92/94 (98%)	82 (89%)	10 (11%)	8	40
52	DU	92/94 (98%)	81 (88%)	11 (12%)	6	35
53	BV	82/82 (100%)	72 (88%)	10 (12%)	6	34
53	DV	82/82 (100%)	73 (89%)	9 (11%)	8	40
54	BW	91/92 (99%)	86 (94%)	5 (6%)	27	69
54	DW	91/92 (99%)	86 (94%)	5 (6%)	27	69
55	BX	74/78 (95%)	65 (88%)	9 (12%)	6	34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	DX	74/78 (95%)	65 (88%)	9 (12%)	6	34
56	BY	87/91 (96%)	76 (87%)	11 (13%)	5	32
56	DY	87/91 (96%)	76 (87%)	11 (13%)	5	32
57	BZ	162/179 (90%)	137 (85%)	25 (15%)	3	24
57	DZ	162/179 (90%)	145 (90%)	17 (10%)	8	42
All	All	10872/11344 (96%)	9687 (89%)	1185 (11%)	8	40

All (1185) 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	67	THR
2	AB	69	LEU
2	AB	79	ASP
2	AB	129	GLU
2	AB	137	ARG
2	AB	146	GLN
2	AB	162	ILE
2	AB	172	ILE
2	AB	178	ARG
2	AB	196	LEU
2	AB	204	ASN
2	AB	221	LEU
3	AC	5	ILE
3	AC	16	ARG
3	AC	34	LEU
3	AC	46	GLU
3	AC	52	LEU
3	AC	56	ASP
3	AC	67	THR
3	AC	72	LYS
3	AC	79	ARG
3	AC	90	GLU
3	AC	95	THR
3	AC	98	ASN

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Mol	Chain	Res	Type
3	AC	119	ARG
3	AC	127	ARG
3	AC	131	ARG
3	AC	152	ILE
3	AC	167	TRP
3	AC	178	LEU
3	AC	179	ARG
3	AC	188	LEU
3	AC	190	ARG
4	AD	3	ARG
4	AD	9	CYS
4	AD	12	CYS
4	AD	15	GLU
4	AD	33	MET
4	AD	36	ARG
4	AD	49	ARG
4	AD	53	ASP
4	AD	57	ARG
4	AD	58	LEU
4	AD	73	ARG
4	AD	78	LEU
4	AD	96	LEU
4	AD	127	THR
4	AD	129	ASN
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	20	GLN
5	AE	41	VAL
5	AE	68	GLU
5	AE	72	GLN
5	AE	76	ILE
5	AE	79	GLU
5	AE	101	ILE
5	AE	117	ASP
5	AE	125	SER
5	AE	144	THR
6	AF	15	ASP
6	AF	32	ASN

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Mol	Chain	Res	Type
6	AF	47	ARG
6	AF	64	GLN
6	AF	69	GLU
6	AF	83	ASP
6	AF	98	LEU
7	AG	30	ILE
7	AG	57	GLU
7	AG	79	ARG
7	AG	104	LEU
7	AG	111	ARG
7	AG	113	GLU
7	AG	137	LYS
7	AG	151	TYR
7	AG	156	TRP
8	AH	1	MET
8	AH	25	ASP
8	AH	26	VAL
8	AH	41	ARG
8	AH	50	ARG
8	AH	91	ARG
8	AH	102	ARG
8	AH	118	VAL
8	AH	133	LEU
9	AI	10	ARG
9	AI	47	LEU
9	AI	87	GLN
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	62	HIS
10	AJ	63	PHE
10	AJ	70	ARG
10	AJ	74	ILE
10	AJ	92	THR
10	AJ	96	ILE
11	AK	29	ILE

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Mol	Chain	Res	Type
11	AK	87	THR
11	AK	92	GLU
12	AL	7	ILE
12	AL	20	LYS
12	AL	27	LEU
12	AL	37	CYS
12	AL	41	ARG
12	AL	44	THR
12	AL	47	LYS
12	AL	53	ARG
12	AL	70	ILE
12	AL	85	ILE
12	AL	91	LYS
13	AM	23	TYR
13	AM	64	TRP
13	AM	91	ARG
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	49	HIS
15	AO	10	LYS
15	AO	31	LEU
15	AO	39	LEU
15	AO	57	LEU
15	AO	82	ILE
15	AO	88	ARG
16	AP	1	MET
16	AP	2	VAL
16	AP	32	TYR
16	AP	72	ARG
17	AQ	7	THR
17	AQ	23	VAL
17	AQ	35	VAL
17	AQ	48	GLU
17	AQ	52	LYS

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Mol	Chain	Res	Type
18	AR	19	LYS
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	29	ARG
19	AS	34	TRP
19	AS	37	ARG
19	AS	44	MET
19	AS	66	MET
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	42	GLN
20	AT	56	MET
20	AT	73	HIS
20	AT	74	LYS
20	AT	84	LEU
20	AT	93	GLU
21	AU	10	ARG
25	AY	12	LEU
25	AY	21	ILE
25	AY	27	THR
25	AY	40	HIS
25	AY	65	ILE
25	AY	85	PRO
25	AY	88	VAL
25	AY	92	ILE
25	AY	99	ARG
25	AY	102	ASP
25	AY	109	ASP
25	AY	119	GLU
25	AY	122	TRP
25	AY	124	GLN
25	AY	128	TYR
25	AY	130	VAL
25	AY	132	ARG
25	AY	137	ASN
25	AY	157	LEU

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Mol	Chain	Res	Type
25	AY	165	GLN
25	AY	173	THR
25	AY	204	GLU
25	AY	214	GLU
25	AY	225	GLU
25	AY	240	GLU
25	AY	242	LEU
25	AY	252	ASP
25	AY	255	ILE
25	AY	260	LEU
25	AY	288	PRO
25	AY	326	THR
25	AY	336	THR
25	AY	343	ASN
25	AY	356	LEU
25	AY	377	VAL
25	AY	381	LYS
25	AY	421	GLN
25	AY	426	GLN
25	AY	428	LEU
25	AY	438	PHE
25	AY	440	VAL
25	AY	468	ARG
25	AY	481	VAL
25	AY	484	ARG
25	AY	487	ILE
25	AY	499	ARG
25	AY	501	THR
25	AY	504	ARG
25	AY	507	TYR
25	AY	512	ILE
25	AY	527	ASN
25	AY	533	VAL
25	AY	535	PRO
25	AY	567	LEU
25	AY	572	TYR
25	AY	574	GLU
25	AY	579	GLU
25	AY	580	MET
25	AY	595	GLN
25	AY	605	ILE
25	AY	610	VAL

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Mol	Chain	Res	Type
25	AY	614	GLU
25	AY	624	LEU
25	AY	630	GLN
25	AY	634	MET
25	AY	647	VAL
25	AY	657	THR
25	AY	684	GLN
26	B0	5	LYS
26	B0	20	ARG
26	B0	27	GLU
26	B0	41	ARG
26	B0	64	ASP
26	B0	75	LEU
26	B0	84	LEU
27	B1	26	ARG
27	B1	35	THR
27	B1	45	ASN
27	B1	46	LEU
27	B1	56	GLN
27	B1	69	LYS
27	B1	72	GLU
27	B1	73	LEU
27	B1	82	LEU
27	B1	83	GLU
28	B2	30	ARG
28	B2	31	GLU
28	B2	32	LEU
28	B2	37	PHE
28	B2	44	LEU
28	B2	59	ARG
29	B3	28	LEU
29	B3	29	ARG
29	B3	48	GLU
30	B4	1	MET
30	B4	5	ILE
30	B4	9	LEU
30	B4	20	ASN
30	B4	30	GLU
30	B4	32	TYR
30	B4	40	HIS
30	B4	42	PHE
30	B4	43	TYR

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Mol	Chain	Res	Type
30	B4	48	ARG
30	B4	49	PHE
30	B4	55	ARG
31	B5	3	LYS
31	B5	4	HIS
31	B5	55	ARG
31	B5	58	LEU
32	B6	6	ARG
32	B6	9	LEU
32	B6	10	LEU
32	B6	11	LEU
32	B6	18	ARG
32	B6	23	THR
32	B6	29	ASN
32	B6	30	THR
32	B6	39	TYR
32	B6	42	TRP
33	B7	1	MET
33	B7	4	THR
33	B7	8	ASN
33	B7	41	ARG
33	B7	48	LYS
34	B8	30	ARG
34	B8	32	LEU
34	B8	33	ASN
34	B8	34	TRP
34	B8	40	GLU
34	B8	44	LYS
34	B8	49	VAL
34	B8	61	LEU
35	B9	1	MET
35	B9	29	ASN
38	BC	43	GLU
38	BC	56	ASP
38	BC	64	SER
38	BC	74	ARG
38	BC	93	ASP
38	BC	128	LEU
38	BC	135	ARG
38	BC	149	ASN
38	BC	184	GLU
38	BC	185	LYS

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Mol	Chain	Res	Type
38	BC	191	ARG
39	BD	10	THR
39	BD	23	GLU
39	BD	24	ILE
39	BD	26	LYS
39	BD	35	LYS
39	BD	37	LEU
39	BD	43	ARG
39	BD	61	LEU
39	BD	65	ILE
39	BD	67	PHE
39	BD	84	TYR
39	BD	87	ASN
39	BD	92	ILE
39	BD	95	LEU
39	BD	104	TYR
39	BD	117	VAL
39	BD	131	LEU
39	BD	157	ARG
39	BD	166	GLN
39	BD	183	ARG
39	BD	189	CYS
39	BD	192	THR
39	BD	198	ASN
39	BD	200	ASP
39	BD	211	ARG
39	BD	221	VAL
39	BD	226	MET
39	BD	227	ASN
39	BD	228	PRO
39	BD	244	ARG
39	BD	246	PRO
39	BD	257	LEU
39	BD	260	ARG
39	BD	270	ILE
39	BD	275	LYS
40	BE	9	VAL
40	BE	26	ILE
40	BE	36	ARG
40	BE	40	GLU
40	BE	49	LEU
40	BE	54	GLN

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Mol	Chain	Res	Type
40	BE	55	ASN
40	BE	61	ARG
40	BE	67	PHE
40	BE	69	LYS
40	BE	78	LEU
40	BE	79	ARG
40	BE	94	GLU
40	BE	95	ILE
40	BE	113	PHE
40	BE	119	ARG
40	BE	121	ASN
40	BE	134	ILE
40	BE	178	GLU
40	BE	179	GLU
40	BE	192	ASN
40	BE	197	ILE
40	BE	200	GLU
40	BE	202	LYS
40	BE	203	LYS
41	BF	28	ILE
41	BF	41	LEU
41	BF	62	ARG
41	BF	66	PRO
41	BF	83	PHE
41	BF	125	LEU
41	BF	149	ASP
41	BF	160	ASN
41	BF	165	ARG
41	BF	175	THR
41	BF	179	GLU
42	BG	4	ASP
42	BG	5	VAL
42	BG	16	ARG
42	BG	22	ARG
42	BG	33	ARG
42	BG	34	LEU
42	BG	36	LYS
42	BG	45	GLU
42	BG	47	LYS
42	BG	51	ARG
42	BG	60	LEU
42	BG	67	LYS

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Mol	Chain	Res	Type
42	BG	77	ILE
42	BG	80	PHE
42	BG	82	LEU
42	BG	83	ARG
42	BG	87	PRO
42	BG	88	ILE
42	BG	92	VAL
42	BG	97	ASP
42	BG	118	ARG
42	BG	135	LEU
42	BG	139	LEU
42	BG	147	ASP
42	BG	152	LEU
42	BG	156	ASP
42	BG	166	ASP
42	BG	170	ARG
43	BH	46	GLU
43	BH	49	VAL
43	BH	53	GLU
43	BH	54	ARG
43	BH	71	LEU
43	BH	83	TYR
43	BH	104	GLU
43	BH	111	HIS
43	BH	143	GLN
43	BH	158	HIS
43	BH	163	TYR
45	BN	1	MET
45	BN	4	TYR
45	BN	25	ARG
45	BN	26	LEU
45	BN	39	ARG
45	BN	41	ASP
45	BN	45	ASN
45	BN	48	MET
45	BN	56	ASN
45	BN	63	THR
45	BN	65	LYS
45	BN	101	HIS
45	BN	109	LYS
45	BN	127	ASP
46	BO	23	ARG

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Mol	Chain	Res	Type
46	BO	38	VAL
46	BO	40	VAL
46	BO	48	PRO
46	BO	49	ARG
46	BO	87	ILE
47	BP	7	ARG
47	BP	13	ASN
47	BP	16	ARG
47	BP	18	ARG
47	BP	39	LYS
47	BP	41	ARG
47	BP	42	SER
47	BP	57	THR
47	BP	61	ARG
47	BP	62	LEU
47	BP	70	GLN
47	BP	81	GLN
47	BP	84	ASN
47	BP	85	LEU
47	BP	91	PHE
47	BP	92	GLU
47	BP	108	LYS
47	BP	114	ILE
47	BP	149	GLU
48	BQ	14	ARG
48	BQ	17	LEU
48	BQ	45	GLN
48	BQ	56	ARG
48	BQ	67	ARG
48	BQ	76	LYS
48	BQ	79	LEU
48	BQ	81	VAL
48	BQ	134	ARG
48	BQ	135	ASP
49	BR	8	ARG
49	BR	27	SER
49	BR	30	THR
49	BR	33	ARG
49	BR	54	LEU
49	BR	65	LEU
49	BR	74	LYS
49	BR	94	TYR

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Mol	Chain	Res	Type
49	BR	97	VAL
49	BR	99	LYS
49	BR	100	LEU
50	BS	11	LYS
50	BS	12	PHE
50	BS	29	PHE
50	BS	36	TYR
50	BS	67	ARG
50	BS	92	TYR
50	BS	97	ARG
50	BS	106	ARG
51	BT	6	LEU
51	BT	16	ARG
51	BT	17	THR
51	BT	24	PRO
51	BT	29	ARG
51	BT	32	TYR
51	BT	38	ASN
51	BT	46	GLU
51	BT	53	ARG
51	BT	58	ASN
51	BT	65	LYS
51	BT	74	ARG
51	BT	78	LEU
51	BT	82	LEU
51	BT	90	GLN
51	BT	99	LEU
51	BT	108	ARG
51	BT	111	ARG
51	BT	115	ARG
51	BT	124	ASP
51	BT	125	ARG
51	BT	128	GLU
51	BT	129	ARG
51	BT	132	LYS
52	BU	14	HIS
52	BU	20	LEU
52	BU	38	THR
52	BU	49	HIS
52	BU	66	ASN
52	BU	74	LEU
52	BU	79	PHE

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Mol	Chain	Res	Type
52	BU	92	ARG
52	BU	101	ARG
52	BU	108	GLU
53	BV	1	MET
53	BV	13	ARG
53	BV	18	LEU
53	BV	19	LYS
53	BV	21	ARG
53	BV	39	LEU
53	BV	46	VAL
53	BV	89	GLN
53	BV	95	LEU
53	BV	99	ILE
54	BW	11	ARG
54	BW	40	ASN
54	BW	52	GLU
54	BW	88	ARG
54	BW	107	LEU
55	BX	3	THR
55	BX	11	PRO
55	BX	28	PHE
55	BX	37	THR
55	BX	51	VAL
55	BX	56	THR
55	BX	57	LEU
55	BX	68	ARG
55	BX	76	ARG
56	BY	2	ARG
56	BY	7	VAL
56	BY	9	LYS
56	BY	32	PRO
56	BY	53	PRO
56	BY	55	TYR
56	BY	66	PRO
56	BY	77	PRO
56	BY	83	THR
56	BY	90	LEU
56	BY	102	CYS
57	BZ	5	LEU
57	BZ	6	LYS
57	BZ	28	MET
57	BZ	29	TYR

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Mol	Chain	Res	Type
57	BZ	31	ARG
57	BZ	41	LEU
57	BZ	55	HIS
57	BZ	67	LEU
57	BZ	83	PRO
57	BZ	87	ASP
57	BZ	92	SER
57	BZ	94	GLU
57	BZ	103	ARG
57	BZ	112	ARG
57	BZ	123	ASP
57	BZ	127	LYS
57	BZ	140	ASP
57	BZ	146	ILE
57	BZ	148	ASP
57	BZ	150	LEU
57	BZ	151	HIS
57	BZ	154	ASP
57	BZ	171	ILE
57	BZ	179	ASP
57	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	67	THR
2	CB	69	LEU
2	CB	79	ASP
2	CB	129	GLU
2	CB	137	ARG
2	CB	146	GLN
2	CB	162	ILE
2	CB	172	ILE
2	CB	178	ARG
2	CB	196	LEU
2	CB	200	ILE
2	CB	204	ASN
2	CB	221	LEU
3	CC	5	ILE
3	CC	16	ARG

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Mol	Chain	Res	Type
3	CC	34	LEU
3	CC	46	GLU
3	CC	52	LEU
3	CC	54	ARG
3	CC	56	ASP
3	CC	67	THR
3	CC	72	LYS
3	CC	79	ARG
3	CC	90	GLU
3	CC	95	THR
3	CC	98	ASN
3	CC	119	ARG
3	CC	127	ARG
3	CC	131	ARG
3	CC	167	TRP
3	CC	178	LEU
3	CC	179	ARG
3	CC	188	LEU
3	CC	190	ARG
4	CD	3	ARG
4	CD	9	CYS
4	CD	12	CYS
4	CD	15	GLU
4	CD	33	MET
4	CD	36	ARG
4	CD	49	ARG
4	CD	53	ASP
4	CD	57	ARG
4	CD	58	LEU
4	CD	73	ARG
4	CD	78	LEU
4	CD	96	LEU
4	CD	127	THR
4	CD	129	ASN
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	20	GLN
5	CE	41	VAL

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Mol	Chain	Res	Type
5	CE	68	GLU
5	CE	72	GLN
5	CE	76	ILE
5	CE	79	GLU
5	CE	101	ILE
5	CE	117	ASP
5	CE	125	SER
5	CE	144	THR
6	CF	15	ASP
6	CF	32	ASN
6	CF	47	ARG
6	CF	64	GLN
6	CF	69	GLU
6	CF	83	ASP
6	CF	98	LEU
7	CG	30	ILE
7	CG	57	GLU
7	CG	79	ARG
7	CG	111	ARG
7	CG	113	GLU
7	CG	137	LYS
7	CG	151	TYR
7	CG	156	TRP
8	CH	1	MET
8	CH	25	ASP
8	CH	26	VAL
8	CH	41	ARG
8	CH	50	ARG
8	CH	91	ARG
8	CH	102	ARG
8	CH	118	VAL
8	CH	133	LEU
9	CI	10	ARG
9	CI	47	LEU
9	CI	87	GLN
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

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Mol	Chain	Res	Type
10	CJ	45	ARG
10	CJ	50	ILE
10	CJ	55	LYS
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	70	ARG
10	CJ	74	ILE
10	CJ	92	THR
10	CJ	96	ILE
11	CK	29	ILE
11	CK	87	THR
11	CK	92	GLU
12	CL	7	ILE
12	CL	20	LYS
12	CL	27	LEU
12	CL	37	CYS
12	CL	41	ARG
12	CL	44	THR
12	CL	47	LYS
12	CL	53	ARG
12	CL	70	ILE
12	CL	85	ILE
12	CL	91	LYS
13	CM	23	TYR
13	CM	64	TRP
13	CM	91	ARG
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS
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	49	HIS
15	CO	10	LYS
15	CO	31	LEU
15	CO	39	LEU
15	CO	57	LEU
15	CO	82	ILE

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Mol	Chain	Res	Type
15	CO	88	ARG
16	CP	1	MET
16	CP	2	VAL
16	CP	32	TYR
16	CP	72	ARG
17	CQ	7	THR
17	CQ	23	VAL
17	CQ	35	VAL
17	CQ	48	GLU
17	CQ	52	LYS
17	CQ	78	GLU
18	CR	19	LYS
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	29	ARG
19	CS	34	TRP
19	CS	37	ARG
19	CS	44	MET
19	CS	66	MET
20	CT	13	LEU
20	CT	24	LEU
20	CT	26	ASN
20	CT	36	LEU
20	CT	42	GLN
20	CT	73	HIS
20	CT	74	LYS
20	CT	84	LEU
20	CT	93	GLU
21	CU	10	ARG
25	CY	13	ARG
25	CY	14	ASN
25	CY	21	ILE
25	CY	22	ASP
25	CY	65	ILE
25	CY	81	ILE
25	CY	84	THR
25	CY	88	VAL
25	CY	92	ILE

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Mol	Chain	Res	Type
25	CY	99	ARG
25	CY	100	VAL
25	CY	101	LEU
25	CY	102	ASP
25	CY	109	ASP
25	CY	117	GLN
25	CY	128	TYR
25	CY	130	VAL
25	CY	132	ARG
25	CY	137	ASN
25	CY	146	LEU
25	CY	153	MET
25	CY	157	LEU
25	CY	192	LEU
25	CY	218	GLU
25	CY	225	GLU
25	CY	232	LEU
25	CY	260	LEU
25	CY	278	ASP
25	CY	304	ASP
25	CY	312	LEU
25	CY	336	THR
25	CY	340	TYR
25	CY	343	ASN
25	CY	357	ARG
25	CY	377	VAL
25	CY	381	LYS
25	CY	388	THR
25	CY	396	ARG
25	CY	403	GLU
25	CY	421	GLN
25	CY	428	LEU
25	CY	438	PHE
25	CY	459	LEU
25	CY	476	VAL
25	CY	487	ILE
25	CY	488	THR
25	CY	492	ASP
25	CY	512	ILE
25	CY	527	ASN
25	CY	533	VAL
25	CY	536	LYS

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Mol	Chain	Res	Type
25	CY	548	GLU
25	CY	572	TYR
25	CY	579	GLU
25	CY	580	MET
25	CY	614	GLU
25	CY	616	TYR
25	CY	623	ASP
25	CY	624	LEU
25	CY	634	MET
25	CY	641	GLN
25	CY	644	ARG
25	CY	647	VAL
25	CY	661	SER
25	CY	674	ASP
26	D0	5	LYS
26	D0	20	ARG
26	D0	27	GLU
26	D0	41	ARG
26	D0	64	ASP
26	D0	75	LEU
26	D0	84	LEU
27	D1	43	TYR
27	D1	45	ASN
27	D1	46	LEU
27	D1	69	LYS
27	D1	80	LEU
27	D1	83	GLU
28	D2	20	GLU
28	D2	37	PHE
28	D2	56	GLN
28	D2	59	ARG
28	D2	60	LEU
29	D3	28	LEU
29	D3	29	ARG
29	D3	48	GLU
30	D4	1	MET
30	D4	5	ILE
30	D4	9	LEU
30	D4	20	ASN
30	D4	30	GLU
30	D4	32	TYR
30	D4	40	HIS

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Mol	Chain	Res	Type
30	D4	42	PHE
30	D4	43	TYR
30	D4	48	ARG
30	D4	49	PHE
30	D4	55	ARG
31	D5	3	LYS
31	D5	4	HIS
31	D5	55	ARG
31	D5	58	LEU
32	D6	6	ARG
32	D6	9	LEU
32	D6	10	LEU
32	D6	11	LEU
32	D6	18	ARG
32	D6	23	THR
32	D6	29	ASN
32	D6	30	THR
32	D6	39	TYR
32	D6	42	TRP
33	D7	1	MET
33	D7	4	THR
33	D7	8	ASN
33	D7	41	ARG
33	D7	48	LYS
34	D8	30	ARG
34	D8	31	HIS
34	D8	32	LEU
34	D8	33	ASN
34	D8	34	TRP
34	D8	40	GLU
34	D8	44	LYS
34	D8	49	VAL
34	D8	61	LEU
35	D9	1	MET
35	D9	29	ASN
38	DC	43	GLU
38	DC	53	ARG
38	DC	54	ARG
38	DC	56	ASP
38	DC	64	SER
38	DC	74	ARG
38	DC	128	LEU

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Mol	Chain	Res	Type
38	DC	135	ARG
38	DC	149	ASN
38	DC	184	GLU
38	DC	185	LYS
38	DC	191	ARG
39	DD	10	THR
39	DD	23	GLU
39	DD	24	ILE
39	DD	26	LYS
39	DD	35	LYS
39	DD	37	LEU
39	DD	43	ARG
39	DD	61	LEU
39	DD	65	ILE
39	DD	67	PHE
39	DD	84	TYR
39	DD	87	ASN
39	DD	92	ILE
39	DD	95	LEU
39	DD	104	TYR
39	DD	117	VAL
39	DD	131	LEU
39	DD	157	ARG
39	DD	166	GLN
39	DD	183	ARG
39	DD	189	CYS
39	DD	192	THR
39	DD	198	ASN
39	DD	200	ASP
39	DD	211	ARG
39	DD	221	VAL
39	DD	226	MET
39	DD	227	ASN
39	DD	228	PRO
39	DD	244	ARG
39	DD	246	PRO
39	DD	257	LEU
39	DD	260	ARG
39	DD	270	ILE
39	DD	275	LYS
40	DE	9	VAL
40	DE	26	ILE

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Mol	Chain	Res	Type
40	DE	36	ARG
40	DE	40	GLU
40	DE	49	LEU
40	DE	54	GLN
40	DE	55	ASN
40	DE	61	ARG
40	DE	67	PHE
40	DE	69	LYS
40	DE	78	LEU
40	DE	79	ARG
40	DE	94	GLU
40	DE	95	ILE
40	DE	113	PHE
40	DE	119	ARG
40	DE	121	ASN
40	DE	134	ILE
40	DE	178	GLU
40	DE	179	GLU
40	DE	192	ASN
40	DE	197	ILE
40	DE	200	GLU
40	DE	202	LYS
40	DE	203	LYS
41	DF	28	ILE
41	DF	41	LEU
41	DF	62	ARG
41	DF	66	PRO
41	DF	83	PHE
41	DF	125	LEU
41	DF	149	ASP
41	DF	160	ASN
41	DF	165	ARG
41	DF	175	THR
41	DF	179	GLU
42	DG	4	ASP
42	DG	22	ARG
42	DG	33	ARG
42	DG	34	LEU
42	DG	38	VAL
42	DG	40	ASN
42	DG	45	GLU
42	DG	47	LYS

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Mol	Chain	Res	Type
42	DG	49	ASP
42	DG	51	ARG
42	DG	67	LYS
42	DG	71	THR
42	DG	80	PHE
42	DG	83	ARG
42	DG	87	PRO
42	DG	92	VAL
42	DG	93	THR
42	DG	97	ASP
42	DG	103	LEU
42	DG	105	LYS
42	DG	118	ARG
42	DG	123	ASN
42	DG	132	ASN
42	DG	135	LEU
42	DG	136	ARG
42	DG	139	LEU
42	DG	145	THR
42	DG	152	LEU
42	DG	153	ARG
43	DH	46	GLU
43	DH	49	VAL
43	DH	53	GLU
43	DH	54	ARG
43	DH	71	LEU
43	DH	83	TYR
43	DH	104	GLU
43	DH	111	HIS
43	DH	143	GLN
43	DH	158	HIS
43	DH	163	TYR
45	DN	1	MET
45	DN	4	TYR
45	DN	25	ARG
45	DN	26	LEU
45	DN	39	ARG
45	DN	41	ASP
45	DN	45	ASN
45	DN	48	MET
45	DN	56	ASN
45	DN	63	THR

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Mol	Chain	Res	Type
45	DN	65	LYS
45	DN	101	HIS
45	DN	109	LYS
45	DN	127	ASP
46	DO	23	ARG
46	DO	38	VAL
46	DO	40	VAL
46	DO	48	PRO
46	DO	49	ARG
46	DO	87	ILE
47	DP	7	ARG
47	DP	13	ASN
47	DP	16	ARG
47	DP	18	ARG
47	DP	39	LYS
47	DP	41	ARG
47	DP	42	SER
47	DP	51	PHE
47	DP	57	THR
47	DP	61	ARG
47	DP	62	LEU
47	DP	70	GLN
47	DP	81	GLN
47	DP	84	ASN
47	DP	85	LEU
47	DP	91	PHE
47	DP	92	GLU
47	DP	108	LYS
47	DP	114	ILE
47	DP	149	GLU
48	DQ	14	ARG
48	DQ	17	LEU
48	DQ	45	GLN
48	DQ	56	ARG
48	DQ	67	ARG
48	DQ	76	LYS
48	DQ	79	LEU
48	DQ	81	VAL
48	DQ	134	ARG
48	DQ	135	ASP
49	DR	8	ARG
49	DR	18	LEU

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Mol	Chain	Res	Type
49	DR	27	SER
49	DR	30	THR
49	DR	33	ARG
49	DR	54	LEU
49	DR	65	LEU
49	DR	74	LYS
49	DR	75	LEU
49	DR	94	TYR
49	DR	97	VAL
49	DR	99	LYS
49	DR	100	LEU
50	DS	11	LYS
50	DS	12	PHE
50	DS	29	PHE
50	DS	36	TYR
50	DS	67	ARG
50	DS	92	TYR
50	DS	97	ARG
50	DS	106	ARG
51	DT	6	LEU
51	DT	16	ARG
51	DT	17	THR
51	DT	24	PRO
51	DT	29	ARG
51	DT	32	TYR
51	DT	38	ASN
51	DT	46	GLU
51	DT	53	ARG
51	DT	58	ASN
51	DT	65	LYS
51	DT	74	ARG
51	DT	78	LEU
51	DT	82	LEU
51	DT	90	GLN
51	DT	99	LEU
51	DT	108	ARG
51	DT	111	ARG
51	DT	115	ARG
51	DT	124	ASP
51	DT	125	ARG
51	DT	128	GLU
51	DT	129	ARG

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Mol	Chain	Res	Type
51	DT	132	LYS
52	DU	14	HIS
52	DU	20	LEU
52	DU	38	THR
52	DU	49	HIS
52	DU	60	LEU
52	DU	66	ASN
52	DU	74	LEU
52	DU	79	PHE
52	DU	92	ARG
52	DU	101	ARG
52	DU	108	GLU
53	DV	1	MET
53	DV	13	ARG
53	DV	18	LEU
53	DV	19	LYS
53	DV	21	ARG
53	DV	39	LEU
53	DV	89	GLN
53	DV	95	LEU
53	DV	99	ILE
54	DW	11	ARG
54	DW	40	ASN
54	DW	52	GLU
54	DW	88	ARG
54	DW	107	LEU
55	DX	3	THR
55	DX	11	PRO
55	DX	28	PHE
55	DX	37	THR
55	DX	51	VAL
55	DX	56	THR
55	DX	57	LEU
55	DX	68	ARG
55	DX	76	ARG
56	DY	2	ARG
56	DY	7	VAL
56	DY	9	LYS
56	DY	32	PRO
56	DY	53	PRO
56	DY	55	TYR
56	DY	66	PRO

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Mol	Chain	Res	Type
56	DY	77	PRO
56	DY	83	THR
56	DY	90	LEU
56	DY	102	CYS
57	DZ	5	LEU
57	DZ	6	LYS
57	DZ	20	ARG
57	DZ	24	LEU
57	DZ	28	MET
57	DZ	41	LEU
57	DZ	48	PHE
57	DZ	81	ARG
57	DZ	85	HIS
57	DZ	87	ASP
57	DZ	112	ARG
57	DZ	123	ASP
57	DZ	150	LEU
57	DZ	154	ASP
57	DZ	155	LEU
57	DZ	163	LEU
57	DZ	171	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (349) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	40	HIS
2	AB	78	GLN
2	AB	110	GLN
2	AB	113	HIS
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	28	GLN
3	AC	110	ASN
3	AC	118	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	129	ASN

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Mol	Chain	Res	Type
4	AD	160	GLN
4	AD	161	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	100	ASN
7	AG	13	GLN
7	AG	37	ASN
7	AG	68	ASN
7	AG	84	ASN
7	AG	96	GLN
7	AG	106	GLN
8	AH	82	HIS
9	AI	3	GLN
9	AI	58	HIS
9	AI	73	GLN
9	AI	124	GLN
10	AJ	13	HIS
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	76	ASN
10	AJ	78	ASN
10	AJ	84	GLN
11	AK	22	HIS
11	AK	117	ASN
12	AL	8	ASN
12	AL	9	GLN
12	AL	49	ASN
13	AM	40	ASN
13	AM	77	ASN
13	AM	101	GLN
14	AN	49	HIS
15	AO	9	GLN
15	AO	13	GLN
15	AO	28	GLN
15	AO	37	ASN
15	AO	53	HIS
15	AO	62	GLN
16	AP	16	HIS

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Mol	Chain	Res	Type
17	AQ	16	GLN
19	AS	14	HIS
19	AS	47	HIS
20	AT	16	HIS
20	AT	26	ASN
20	AT	42	GLN
20	AT	75	ASN
25	AY	14	ASN
25	AY	124	GLN
25	AY	137	ASN
25	AY	165	GLN
25	AY	208	GLN
25	AY	226	ASN
25	AY	266	ASN
25	AY	343	ASN
25	AY	421	GLN
25	AY	458	HIS
25	AY	506	GLN
25	AY	527	ASN
25	AY	573	HIS
25	AY	630	GLN
25	AY	641	GLN
26	B0	12	ASN
26	B0	70	GLN
27	B1	45	ASN
28	B2	38	GLN
28	B2	56	GLN
29	B3	19	GLN
29	B3	52	HIS
30	B4	6	HIS
30	B4	40	HIS
31	B5	43	HIS
32	B6	20	ASN
32	B6	26	ASN
32	B6	32	ASN
33	B7	8	ASN
33	B7	36	GLN
34	B8	31	HIS
34	B8	33	ASN
34	B8	43	GLN
35	B9	29	ASN
38	BC	58	ASN

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Mol	Chain	Res	Type
38	BC	149	ASN
38	BC	226	ASN
39	BD	96	HIS
39	BD	115	GLN
39	BD	126	GLN
39	BD	143	HIS
39	BD	166	GLN
39	BD	186	HIS
39	BD	198	ASN
39	BD	253	GLN
40	BE	48	GLN
40	BE	55	ASN
40	BE	129	HIS
40	BE	143	ASN
40	BE	169	ASN
40	BE	192	ASN
41	BF	8	GLN
41	BF	69	HIS
41	BF	75	HIS
41	BF	133	ASN
41	BF	160	ASN
41	BF	169	ASN
42	BG	40	ASN
42	BG	41	GLN
42	BG	58	GLN
43	BH	74	ASN
43	BH	147	ASN
43	BH	158	HIS
45	BN	45	ASN
45	BN	56	ASN
45	BN	131	GLN
46	BO	3	GLN
46	BO	5	GLN
46	BO	82	ASN
47	BP	9	ASN
47	BP	13	ASN
47	BP	68	GLN
47	BP	81	GLN
47	BP	84	ASN
47	BP	128	HIS
48	BQ	12	GLN
48	BQ	13	GLN

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Mol	Chain	Res	Type
48	BQ	45	GLN
49	BR	23	ASN
49	BR	24	GLN
49	BR	61	HIS
51	BT	38	ASN
51	BT	58	ASN
51	BT	79	HIS
51	BT	84	GLN
51	BT	90	GLN
52	BU	49	HIS
52	BU	66	ASN
52	BU	81	HIS
52	BU	94	ASN
52	BU	117	GLN
53	BV	11	GLN
54	BW	34	ASN
54	BW	102	HIS
55	BX	41	ASN
55	BX	55	ASN
55	BX	82	GLN
56	BY	43	ASN
57	BZ	54	HIS
57	BZ	65	GLN
57	BZ	75	ASN
57	BZ	118	GLN
2	CB	37	ASN
2	CB	40	HIS
2	CB	78	GLN
2	CB	110	GLN
2	CB	113	HIS
2	CB	146	GLN
2	CB	204	ASN
2	CB	212	GLN
3	CC	28	GLN
3	CC	110	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

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Mol	Chain	Res	Type
4	CD	129	ASN
4	CD	160	GLN
4	CD	161	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	73	ASN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	100	ASN
7	CG	13	GLN
7	CG	37	ASN
7	CG	68	ASN
7	CG	84	ASN
7	CG	86	GLN
7	CG	96	GLN
7	CG	106	GLN
8	CH	82	HIS
9	CI	3	GLN
9	CI	58	HIS
9	CI	124	GLN
10	CJ	13	HIS
10	CJ	56	HIS
10	CJ	68	HIS
10	CJ	76	ASN
10	CJ	78	ASN
10	CJ	84	GLN
11	CK	22	HIS
11	CK	117	ASN
12	CL	8	ASN
12	CL	9	GLN
12	CL	49	ASN
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	28	GLN
15	CO	37	ASN
15	CO	62	GLN
17	CQ	16	GLN

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Mol	Chain	Res	Type
19	CS	14	HIS
19	CS	47	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	75	ASN
25	CY	14	ASN
25	CY	40	HIS
25	CY	87	HIS
25	CY	117	GLN
25	CY	124	GLN
25	CY	137	ASN
25	CY	165	GLN
25	CY	208	GLN
25	CY	421	GLN
25	CY	458	HIS
25	CY	500	GLN
25	CY	506	GLN
25	CY	527	ASN
25	CY	551	GLN
25	CY	573	HIS
25	CY	625	ASN
25	CY	630	GLN
25	CY	641	GLN
26	D0	12	ASN
26	D0	70	GLN
27	D1	45	ASN
27	D1	56	GLN
28	D2	38	GLN
28	D2	47	ASN
28	D2	65	ASN
29	D3	19	GLN
29	D3	52	HIS
30	D4	6	HIS
30	D4	20	ASN
30	D4	40	HIS
31	D5	43	HIS
32	D6	20	ASN
32	D6	26	ASN
32	D6	32	ASN
33	D7	8	ASN
33	D7	36	GLN

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Mol	Chain	Res	Type
34	D8	31	HIS
34	D8	33	ASN
34	D8	43	GLN
35	D9	29	ASN
38	DC	58	ASN
38	DC	149	ASN
38	DC	226	ASN
39	DD	96	HIS
39	DD	115	GLN
39	DD	126	GLN
39	DD	143	HIS
39	DD	166	GLN
39	DD	186	HIS
39	DD	198	ASN
39	DD	220	HIS
39	DD	227	ASN
39	DD	253	GLN
40	DE	48	GLN
40	DE	54	GLN
40	DE	55	ASN
40	DE	129	HIS
40	DE	143	ASN
40	DE	169	ASN
40	DE	192	ASN
41	DF	8	GLN
41	DF	69	HIS
41	DF	75	HIS
41	DF	133	ASN
41	DF	160	ASN
41	DF	169	ASN
41	DF	204	ASN
42	DG	27	ASN
42	DG	41	GLN
42	DG	58	GLN
42	DG	108	ASN
43	DH	65	HIS
43	DH	74	ASN
43	DH	147	ASN
43	DH	158	HIS
45	DN	45	ASN
45	DN	56	ASN
45	DN	131	GLN

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Mol	Chain	Res	Type
46	DO	3	GLN
46	DO	5	GLN
46	DO	82	ASN
47	DP	9	ASN
47	DP	13	ASN
47	DP	68	GLN
47	DP	81	GLN
47	DP	84	ASN
47	DP	128	HIS
48	DQ	12	GLN
48	DQ	13	GLN
48	DQ	45	GLN
49	DR	16	HIS
49	DR	23	ASN
49	DR	24	GLN
49	DR	61	HIS
49	DR	71	GLN
50	DS	95	HIS
51	DT	38	ASN
51	DT	58	ASN
51	DT	79	HIS
51	DT	84	GLN
51	DT	90	GLN
52	DU	49	HIS
52	DU	66	ASN
52	DU	81	HIS
52	DU	94	ASN
52	DU	117	GLN
53	DV	11	GLN
54	DW	34	ASN
54	DW	102	HIS
55	DX	41	ASN
55	DX	55	ASN
55	DX	82	GLN
56	DY	43	ASN
57	DZ	54	HIS
57	DZ	73	GLN
57	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	254 (16%)	36 (2%)
1	CA	1503/1522 (98%)	252 (16%)	34 (2%)
22	AV	75/76 (98%)	13 (17%)	1 (1%)
22	CV	75/76 (98%)	15 (20%)	1 (1%)
23	AW	76/77 (98%)	27 (35%)	1 (1%)
23	CW	76/77 (98%)	27 (35%)	1 (1%)
24	AX	12/25 (48%)	8 (66%)	2 (16%)
24	CX	12/25 (48%)	7 (58%)	2 (16%)
36	BA	2900/2915 (99%)	588 (20%)	61 (2%)
36	DA	2900/2915 (99%)	585 (20%)	63 (2%)
37	BB	118/122 (96%)	25 (21%)	0
37	DB	118/122 (96%)	25 (21%)	0
All	All	9368/9474 (98%)	1826 (19%)	202 (2%)

All (1826) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	9	G
1	AA	31	G
1	AA	32	A
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	79	G
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	104	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129(A)	G
1	AA	131	C
1	AA	144	G

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Mol	Chain	Res	Type
1	AA	146	G
1	AA	147	G
1	AA	149	A
1	AA	160	A
1	AA	181	G
1	AA	182	U
1	AA	183	G
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	243	A
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
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	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	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	428	G
1	AA	429	U

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Mol	Chain	Res	Type
1	AA	430	A
1	AA	435	C
1	AA	437	U
1	AA	439	A
1	AA	441	A
1	AA	444	C
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
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	518	C
1	AA	527	G
1	AA	530	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	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	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

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Mol	Chain	Res	Type
1	AA	687	A
1	AA	688	G
1	AA	704	A
1	AA	721	G
1	AA	723	U
1	AA	724	G
1	AA	728	A
1	AA	731	G
1	AA	744	C
1	AA	748	C
1	AA	749	C
1	AA	755	G
1	AA	777	A
1	AA	792	A
1	AA	793	U
1	AA	794	A
1	AA	813	U
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	859	A
1	AA	907	A
1	AA	914	A
1	AA	921	U
1	AA	926	G
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	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A

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Mol	Chain	Res	Type
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	1010	G
1	AA	1025	U
1	AA	1027	C
1	AA	1030	C
1	AA	1030(B)	C
1	AA	1050	G
1	AA	1054	C
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	1130	A
1	AA	1136	U
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	1196	U
1	AA	1197	G
1	AA	1202	G
1	AA	1212	U
1	AA	1214	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A

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Mol	Chain	Res	Type
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1253	G
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	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
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	1338	G
1	AA	1346	A
1	AA	1348	U
1	AA	1353	G
1	AA	1363	C
1	AA	1364	U
1	AA	1375	A
1	AA	1385	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

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Mol	Chain	Res	Type
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1490	C
1	AA	1492	A
1	AA	1494	G
1	AA	1497	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	5	G
22	AV	8	U
22	AV	16	U
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	43	C
22	AV	46	G
22	AV	48	C
22	AV	74	C
22	AV	76	A
23	AW	5	G
23	AW	7	G
23	AW	8	U
23	AW	9	G
23	AW	10	G
23	AW	15	G
23	AW	17(A)	U
23	AW	18	G
23	AW	19	G
23	AW	20	U
23	AW	21	A

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Mol	Chain	Res	Type
23	AW	23	C
23	AW	31	G
23	AW	33	U
23	AW	34	C
23	AW	35	A
23	AW	47	U
23	AW	48	C
23	AW	50	U
23	AW	52	G
23	AW	56	C
23	AW	61	C
23	AW	67	C
23	AW	68	C
23	AW	71	C
23	AW	73	A
23	AW	74	C
24	AX	12	A
24	AX	13	A
24	AX	14	U
24	AX	15	G
24	AX	16	U
24	AX	18	C
24	AX	19	A
24	AX	20	A
36	BA	9	U
36	BA	18	C
36	BA	28	A
36	BA	34	C
36	BA	35	G
36	BA	42	G
36	BA	43	A
36	BA	45	C
36	BA	49	A
36	BA	50	U
36	BA	63	U
36	BA	69	C
36	BA	72	U
36	BA	75	G
36	BA	83	G
36	BA	84	A
36	BA	85	G
36	BA	88	G

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Mol	Chain	Res	Type
36	BA	90	U
36	BA	92	A
36	BA	94	C
36	BA	95	G
36	BA	100	G
36	BA	102	G
36	BA	106	C
36	BA	116	C
36	BA	118	A
36	BA	119	A
36	BA	121	G
36	BA	125	G
36	BA	129	C
36	BA	139(A)	G
36	BA	141	A
36	BA	142(A)	C
36	BA	143(A)	C
36	BA	155	U
36	BA	156	U
36	BA	157	U
36	BA	174	C
36	BA	190	A
36	BA	196	A
36	BA	199	A
36	BA	204	A
36	BA	205	G
36	BA	212	G
36	BA	215	G
36	BA	216	A
36	BA	221	A
36	BA	222	A
36	BA	227	A
36	BA	229	A
36	BA	233	A
36	BA	237	C
36	BA	241	A
36	BA	248	G
36	BA	252	G
36	BA	261	G
36	BA	271(J)	C
36	BA	271(K)	U
36	BA	271(L)	U

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Mol	Chain	Res	Type
36	BA	271(O)	C
36	BA	271(Y)	U
36	BA	272	G
36	BA	272(A)	U
36	BA	272(B)	G
36	BA	272(H)	C
36	BA	272(I)	U
36	BA	274	G
36	BA	276	A
36	BA	280	C
36	BA	283	A
36	BA	286	C
36	BA	299	A
36	BA	310	A
36	BA	311	A
36	BA	329	G
36	BA	330	A
36	BA	332	A
36	BA	333	G
36	BA	345	A
36	BA	346	A
36	BA	352	G
36	BA	353	G
36	BA	362	U
36	BA	363	G
36	BA	363(F)	A
36	BA	364	C
36	BA	365	C
36	BA	371	A
36	BA	372	G
36	BA	386	G
36	BA	390	A
36	BA	395	U
36	BA	405	U
36	BA	406	G
36	BA	407	G
36	BA	411	G
36	BA	412	A
36	BA	428	A
36	BA	444	C
36	BA	448	U
36	BA	449	A

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Mol	Chain	Res	Type
36	BA	455	C
36	BA	458	G
36	BA	475	U
36	BA	480	A
36	BA	481	G
36	BA	504	U
36	BA	505	A
36	BA	508	G
36	BA	509	C
36	BA	526	A
36	BA	527	C
36	BA	528	A
36	BA	529	A
36	BA	530	G
36	BA	531	C
36	BA	532	A
36	BA	544	G
36	BA	548	A
36	BA	552	G
36	BA	555	U
36	BA	556	G
36	BA	562	U
36	BA	563	G
36	BA	573	G
36	BA	575	A
36	BA	587	C
36	BA	591	C
36	BA	592	G
36	BA	604	G
36	BA	607	U
36	BA	613	G
36	BA	614(B)	G
36	BA	615	G
36	BA	622	G
36	BA	627	A
36	BA	637	A
36	BA	645	C
36	BA	646	A
36	BA	651	G
36	BA	653	A
36	BA	654	A
36	BA	654(I)	C

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Mol	Chain	Res	Type
36	BA	654(J)	A
36	BA	654(K)	C
36	BA	654(M)	C
36	BA	654(T)	C
36	BA	655	A
36	BA	675	A
36	BA	686	G
36	BA	699	A
36	BA	722	A
36	BA	727	A
36	BA	729	G
36	BA	730	C
36	BA	740	U
36	BA	745	G
36	BA	753	C
36	BA	764	A
36	BA	765	G
36	BA	775	G
36	BA	776	G
36	BA	782	A
36	BA	784	A
36	BA	785	G
36	BA	788	A
36	BA	789	A
36	BA	790	C
36	BA	791	C
36	BA	792	G
36	BA	793	A
36	BA	794	G
36	BA	800	A
36	BA	805	G
36	BA	811	U
36	BA	812	C
36	BA	827	U
36	BA	828	U
36	BA	830	G
36	BA	840	C
36	BA	841	A
36	BA	859	G
36	BA	878	A
36	BA	889	C
36	BA	896	A

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Mol	Chain	Res	Type
36	BA	897	C
36	BA	900	A
36	BA	904	C
36	BA	910	A
36	BA	926	A
36	BA	932	G
36	BA	940	G
36	BA	941	A
36	BA	945	A
36	BA	946	G
36	BA	959	A
36	BA	961	C
36	BA	962	G
36	BA	973	A
36	BA	974	G
36	BA	975	C
36	BA	980	A
36	BA	983	A
36	BA	985	C
36	BA	990	A
36	BA	991	C
36	BA	996	A
36	BA	1005	C
36	BA	1011	G
36	BA	1012	U
36	BA	1013	C
36	BA	1021	A
36	BA	1022	G
36	BA	1023	U
36	BA	1026	U
36	BA	1033	U
36	BA	1034	G
36	BA	1036	G
36	BA	1039	G
36	BA	1044	G
36	BA	1045	A
36	BA	1047	G
36	BA	1048	A
36	BA	1049	C
36	BA	1052	C
36	BA	1053	C
36	BA	1054	A

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Mol	Chain	Res	Type
36	BA	1058	G
36	BA	1062	G
36	BA	1067	A
36	BA	1070	A
36	BA	1073	A
36	BA	1076	C
36	BA	1083	U
36	BA	1088	A
36	BA	1090	U
36	BA	1109	C
36	BA	1110	G
36	BA	1111	A
36	BA	1112	G
36	BA	1114	G
36	BA	1115	G
36	BA	1122	G
36	BA	1126	A
36	BA	1135	C
36	BA	1136	G
36	BA	1141	U
36	BA	1142(A)	A
36	BA	1143	A
36	BA	1146	C
36	BA	1155	A
36	BA	1157	G
36	BA	1158	C
36	BA	1159	U
36	BA	1170	G
36	BA	1173	G
36	BA	1174	A
36	BA	1175	U
36	BA	1176	G
36	BA	1177	A
36	BA	1204	A
36	BA	1205	U
36	BA	1210	A
36	BA	1211	U
36	BA	1212	G
36	BA	1213	A
36	BA	1220	A
36	BA	1221	C
36	BA	1224	C

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Mol	Chain	Res	Type
36	BA	1238	G
36	BA	1247	A
36	BA	1248	G
36	BA	1250	G
36	BA	1252	G
36	BA	1255	U
36	BA	1256	G
36	BA	1261	C
36	BA	1266	G
36	BA	1271	G
36	BA	1272	A
36	BA	1273	U
36	BA	1287	A
36	BA	1300	U
36	BA	1302	A
36	BA	1314	C
36	BA	1326	U
36	BA	1329	U
36	BA	1330	C
36	BA	1332	G
36	BA	1345	C
36	BA	1349	A
36	BA	1359	A
36	BA	1368	G
36	BA	1379	A
36	BA	1380	G
36	BA	1384	A
36	BA	1385	G
36	BA	1386	C
36	BA	1396	U
36	BA	1403	C
36	BA	1406	U
36	BA	1411	C
36	BA	1416	G
36	BA	1417	C
36	BA	1421	G
36	BA	1428	C
36	BA	1434	A
36	BA	1435	G
36	BA	1445	A
36	BA	1445(A)	C
36	BA	1449	A

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Mol	Chain	Res	Type
36	BA	1453	U
36	BA	1455	G
36	BA	1459	G
36	BA	1460	A
36	BA	1461	G
36	BA	1467	C
36	BA	1476	C
36	BA	1477	A
36	BA	1478	G
36	BA	1482	G
36	BA	1484	G
36	BA	1485	G
36	BA	1488	G
36	BA	1490	A
36	BA	1491	G
36	BA	1493	C
36	BA	1494	A
36	BA	1495	A
36	BA	1496	A
36	BA	1497	U
36	BA	1505	C
36	BA	1509	C
36	BA	1509(A)	A
36	BA	1517	G
36	BA	1528(A)	A
36	BA	1541	G
36	BA	1542	A
36	BA	1544	A
36	BA	1553	A
36	BA	1554	A
36	BA	1558	A
36	BA	1559	G
36	BA	1569	A
36	BA	1578	U
36	BA	1579	A
36	BA	1584	C
36	BA	1586	A
36	BA	1588	C
36	BA	1608	A
36	BA	1609	A
36	BA	1610	A
36	BA	1615	C

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Mol	Chain	Res	Type
36	BA	1616	A
36	BA	1618	A
36	BA	1634	A
36	BA	1640	C
36	BA	1644	C
36	BA	1648	C
36	BA	1674	G
36	BA	1699	G
36	BA	1718	G
36	BA	1722	A
36	BA	1739	U
36	BA	1740	G
36	BA	1744	C
36	BA	1748	G
36	BA	1759	A
36	BA	1763	G
36	BA	1764	G
36	BA	1773	A
36	BA	1780	A
36	BA	1781	C
36	BA	1784	A
36	BA	1791	A
36	BA	1799	G
36	BA	1800	C
36	BA	1801	G
36	BA	1815	A
36	BA	1816	G
36	BA	1820	U
36	BA	1821	A
36	BA	1829	A
36	BA	1839	G
36	BA	1846	G
36	BA	1847	A
36	BA	1850	G
36	BA	1858	G
36	BA	1862	G
36	BA	1866	C
36	BA	1877	A
36	BA	1878	G
36	BA	1885	A
36	BA	1888	G
36	BA	1889	A

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Mol	Chain	Res	Type
36	BA	1900	A
36	BA	1906	G
36	BA	1912	A
36	BA	1929	G
36	BA	1930	G
36	BA	1931	U
36	BA	1937	A
36	BA	1938	A
36	BA	1943	U
36	BA	1944	U
36	BA	1945	G
36	BA	1948	G
36	BA	1955	U
36	BA	1960	A
36	BA	1963	U
36	BA	1964	G
36	BA	1967	C
36	BA	1969	A
36	BA	1970	A
36	BA	1971	A
36	BA	1972	A
36	BA	1993	U
36	BA	1997	G
36	BA	2004	G
36	BA	2021	C
36	BA	2022	U
36	BA	2031	A
36	BA	2033	A
36	BA	2034	U
36	BA	2043	C
36	BA	2055	C
36	BA	2056	G
36	BA	2060	A
36	BA	2061	G
36	BA	2062	A
36	BA	2065	C
36	BA	2069	G
36	BA	2076	U
36	BA	2100	G
36	BA	2103	C
36	BA	2104	G
36	BA	2111	C

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Mol	Chain	Res	Type
36	BA	2116	G
36	BA	2118	U
36	BA	2127	G
36	BA	2132	U
36	BA	2133	G
36	BA	2134	A
36	BA	2147	G
36	BA	2158	A
36	BA	2159	G
36	BA	2163	C
36	BA	2172	U
36	BA	2173	A
36	BA	2185	C
36	BA	2187	G
36	BA	2189	U
36	BA	2190	G
36	BA	2193	G
36	BA	2198	A
36	BA	2199	A
36	BA	2200	C
36	BA	2203	U
36	BA	2205	C
36	BA	2206	G
36	BA	2207	G
36	BA	2208	A
36	BA	2219	G
36	BA	2225	A
36	BA	2226	C
36	BA	2238	G
36	BA	2239	G
36	BA	2263	C
36	BA	2273	A
36	BA	2283	C
36	BA	2288	A
36	BA	2297	C
36	BA	2305	A
36	BA	2307	G
36	BA	2308	G
36	BA	2309	A
36	BA	2311	A
36	BA	2313	C
36	BA	2319	G

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Mol	Chain	Res	Type
36	BA	2320	A
36	BA	2325	G
36	BA	2334	G
36	BA	2336	A
36	BA	2345	G
36	BA	2346	A
36	BA	2347	C
36	BA	2348	U
36	BA	2349	G
36	BA	2350	C
36	BA	2383	G
36	BA	2385	C
36	BA	2402	C
36	BA	2406	U
36	BA	2423	U
36	BA	2424	C
36	BA	2425	A
36	BA	2427	C
36	BA	2428	G
36	BA	2429	G
36	BA	2430	A
36	BA	2431	U
36	BA	2434	A
36	BA	2435	A
36	BA	2439	A
36	BA	2441	C
36	BA	2448	A
36	BA	2461	C
36	BA	2465	C
36	BA	2469	A
36	BA	2470	G
36	BA	2473	U
36	BA	2474	C
36	BA	2476	A
36	BA	2477	C
36	BA	2478	A
36	BA	2482	G
36	BA	2484	G
36	BA	2497	A
36	BA	2502	G
36	BA	2503	A
36	BA	2505	G

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Mol	Chain	Res	Type
36	BA	2520	C
36	BA	2524	G
36	BA	2529	G
36	BA	2554	U
36	BA	2566	A
36	BA	2567	G
36	BA	2572	A
36	BA	2573	C
36	BA	2577	A
36	BA	2582	G
36	BA	2585	U
36	BA	2586	C
36	BA	2602	A
36	BA	2609	U
36	BA	2610	C
36	BA	2611	U
36	BA	2612	C
36	BA	2630	G
36	BA	2646	C
36	BA	2655	G
36	BA	2657	A
36	BA	2658	C
36	BA	2670	A
36	BA	2673	G
36	BA	2682	U
36	BA	2690	C
36	BA	2691	C
36	BA	2702	U
36	BA	2703	C
36	BA	2712	U
36	BA	2712(A)	A
36	BA	2713	A
36	BA	2726	U
36	BA	2733	A
36	BA	2750	A
36	BA	2751	G
36	BA	2755	C
36	BA	2756	U
36	BA	2757	A
36	BA	2758	A
36	BA	2762	G
36	BA	2764	A

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Mol	Chain	Res	Type
36	BA	2765	A
36	BA	2766	G
36	BA	2778	A
36	BA	2779	U
36	BA	2790	A
36	BA	2791	C
36	BA	2796	U
36	BA	2799	C
36	BA	2801	A
36	BA	2802	G
36	BA	2803	C
36	BA	2808	U
36	BA	2820	A
36	BA	2821	A
36	BA	2824	C
36	BA	2833	G
36	BA	2836	U
36	BA	2849	U
36	BA	2872	G
36	BA	2879	C
36	BA	2880	C
36	BA	2892	A
36	BA	2894	G
36	BA	2895	U
37	BB	8	U
37	BB	13	A
37	BB	15	A
37	BB	16	G
37	BB	22	U
37	BB	25	A
37	BB	35	U
37	BB	41	U
37	BB	42	C
37	BB	45	A
37	BB	52	A
37	BB	53	A
37	BB	56	G
37	BB	67	G
37	BB	73	A
37	BB	81	G
37	BB	82	G
37	BB	88	C

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Mol	Chain	Res	Type
37	BB	89	G
37	BB	90	A
37	BB	91	C
37	BB	103	G
37	BB	104	U
37	BB	110	G
37	BB	113	G
1	CA	7	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	79	G
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	104	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
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	181	G
1	CA	182	U
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	195	A

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Mol	Chain	Res	Type
1	CA	197	A
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	289	G
1	CA	316	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
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	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
1	CA	435	C
1	CA	437	U
1	CA	439	A
1	CA	441	A
1	CA	444	C
1	CA	460	G
1	CA	461	A
1	CA	471	G
1	CA	481	G

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Mol	Chain	Res	Type
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	518	C
1	CA	527	G
1	CA	530	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	535	A
1	CA	536	C
1	CA	547	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	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
1	CA	687	A
1	CA	688	G
1	CA	704	A
1	CA	721	G
1	CA	723	U
1	CA	724	G
1	CA	728	A
1	CA	731	G

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Mol	Chain	Res	Type
1	CA	744	C
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	777	A
1	CA	792	A
1	CA	793	U
1	CA	794	A
1	CA	813	U
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	859	A
1	CA	907	A
1	CA	914	A
1	CA	921	U
1	CA	926	G
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
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	1010	G

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Mol	Chain	Res	Type
1	CA	1025	U
1	CA	1027	C
1	CA	1030	C
1	CA	1030(B)	C
1	CA	1050	G
1	CA	1054	C
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	1130	A
1	CA	1136	U
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	1196	U
1	CA	1197	G
1	CA	1202	G
1	CA	1212	U
1	CA	1214	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	1253	G
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A

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Mol	Chain	Res	Type
1	CA	1281	U
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1336	C
1	CA	1338	G
1	CA	1346	A
1	CA	1348	U
1	CA	1353	G
1	CA	1363	C
1	CA	1364	U
1	CA	1375	A
1	CA	1385	G
1	CA	1394	A
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C
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	1499	A
1	CA	1503	A
1	CA	1504	G

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Mol	Chain	Res	Type
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	5	G
22	CV	8	U
22	CV	16	U
22	CV	17	C
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	43	C
22	CV	46	G
22	CV	48	C
22	CV	67	C
22	CV	73	A
22	CV	74	C
22	CV	76	A
23	CW	5	G
23	CW	7	G
23	CW	8	U
23	CW	9	G
23	CW	10	G
23	CW	15	G
23	CW	17(A)	U
23	CW	18	G
23	CW	19	G
23	CW	20	U
23	CW	21	A
23	CW	23	C
23	CW	31	G
23	CW	33	U
23	CW	34	C
23	CW	35	A
23	CW	47	U
23	CW	48	C
23	CW	50	U
23	CW	52	G

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Mol	Chain	Res	Type
23	CW	56	C
23	CW	67	C
23	CW	68	C
23	CW	71	C
23	CW	73	A
23	CW	74	C
23	CW	75	C
24	CX	12	A
24	CX	13	A
24	CX	14	U
24	CX	15	G
24	CX	16	U
24	CX	18	C
24	CX	19	A
36	DA	9	U
36	DA	18	C
36	DA	28	A
36	DA	34	C
36	DA	35	G
36	DA	42	G
36	DA	43	A
36	DA	45	C
36	DA	49	A
36	DA	50	U
36	DA	63	U
36	DA	69	C
36	DA	72	U
36	DA	75	G
36	DA	83	G
36	DA	84	A
36	DA	85	G
36	DA	88	G
36	DA	90	U
36	DA	92	A
36	DA	94	C
36	DA	95	G
36	DA	100	G
36	DA	102	G
36	DA	106	C
36	DA	116	C
36	DA	118	A
36	DA	119	A

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Mol	Chain	Res	Type
36	DA	121	G
36	DA	125	G
36	DA	129	C
36	DA	139(A)	G
36	DA	141	A
36	DA	142(A)	C
36	DA	143(A)	C
36	DA	155	U
36	DA	156	U
36	DA	157	U
36	DA	174	C
36	DA	190	A
36	DA	196	A
36	DA	199	A
36	DA	204	A
36	DA	205	G
36	DA	212	G
36	DA	215	G
36	DA	216	A
36	DA	221	A
36	DA	222	A
36	DA	227	A
36	DA	229	A
36	DA	233	A
36	DA	237	C
36	DA	241	A
36	DA	248	G
36	DA	252	G
36	DA	261	G
36	DA	271(J)	C
36	DA	271(K)	U
36	DA	271(L)	U
36	DA	271(O)	C
36	DA	271(Y)	U
36	DA	272	G
36	DA	272(A)	U
36	DA	272(B)	G
36	DA	272(H)	C
36	DA	272(I)	U
36	DA	274	G
36	DA	276	A
36	DA	280	C

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Mol	Chain	Res	Type
36	DA	283	A
36	DA	286	C
36	DA	299	A
36	DA	310	A
36	DA	311	A
36	DA	329	G
36	DA	330	A
36	DA	332	A
36	DA	333	G
36	DA	345	A
36	DA	346	A
36	DA	352	G
36	DA	353	G
36	DA	362	U
36	DA	363	G
36	DA	363(F)	A
36	DA	364	C
36	DA	365	C
36	DA	371	A
36	DA	372	G
36	DA	386	G
36	DA	390	A
36	DA	405	U
36	DA	406	G
36	DA	407	G
36	DA	411	G
36	DA	412	A
36	DA	428	A
36	DA	444	C
36	DA	448	U
36	DA	449	A
36	DA	455	C
36	DA	458	G
36	DA	475	U
36	DA	480	A
36	DA	481	G
36	DA	504	U
36	DA	505	A
36	DA	508	G
36	DA	509	C
36	DA	526	A
36	DA	527	C

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Mol	Chain	Res	Type
36	DA	529	A
36	DA	530	G
36	DA	531	C
36	DA	532	A
36	DA	544	G
36	DA	548	A
36	DA	552	G
36	DA	555	U
36	DA	556	G
36	DA	562	U
36	DA	563	G
36	DA	573	G
36	DA	575	A
36	DA	587	C
36	DA	591	C
36	DA	592	G
36	DA	604	G
36	DA	607	U
36	DA	613	G
36	DA	614(B)	G
36	DA	615	G
36	DA	622	G
36	DA	627	A
36	DA	637	A
36	DA	645	C
36	DA	646	A
36	DA	651	G
36	DA	653	A
36	DA	654	A
36	DA	654(I)	C
36	DA	654(J)	A
36	DA	654(K)	C
36	DA	654(M)	C
36	DA	654(T)	C
36	DA	655	A
36	DA	675	A
36	DA	686	G
36	DA	699	A
36	DA	722	A
36	DA	727	A
36	DA	729	G
36	DA	730	C

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Mol	Chain	Res	Type
36	DA	740	U
36	DA	745	G
36	DA	753	C
36	DA	764	A
36	DA	765	G
36	DA	775	G
36	DA	776	G
36	DA	782	A
36	DA	784	A
36	DA	785	G
36	DA	788	A
36	DA	789	A
36	DA	790	C
36	DA	791	C
36	DA	792	G
36	DA	793	A
36	DA	794	G
36	DA	800	A
36	DA	805	G
36	DA	811	U
36	DA	812	C
36	DA	827	U
36	DA	828	U
36	DA	830	G
36	DA	840	C
36	DA	841	A
36	DA	859	G
36	DA	878	A
36	DA	889	C
36	DA	896	A
36	DA	897	C
36	DA	900	A
36	DA	904	C
36	DA	910	A
36	DA	926	A
36	DA	932	G
36	DA	940	G
36	DA	941	A
36	DA	945	A
36	DA	946	G
36	DA	959	A
36	DA	961	C

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Mol	Chain	Res	Type
36	DA	962	G
36	DA	973	A
36	DA	974	G
36	DA	975	C
36	DA	980	A
36	DA	983	A
36	DA	985	C
36	DA	990	A
36	DA	991	C
36	DA	996	A
36	DA	1005	C
36	DA	1011	G
36	DA	1012	U
36	DA	1013	C
36	DA	1021	A
36	DA	1022	G
36	DA	1023	U
36	DA	1026	U
36	DA	1033	U
36	DA	1034	G
36	DA	1036	G
36	DA	1039	G
36	DA	1044	G
36	DA	1045	A
36	DA	1047	G
36	DA	1048	A
36	DA	1049	C
36	DA	1052	C
36	DA	1053	C
36	DA	1054	A
36	DA	1058	G
36	DA	1062	G
36	DA	1067	A
36	DA	1070	A
36	DA	1073	A
36	DA	1076	C
36	DA	1083	U
36	DA	1088	A
36	DA	1090	U
36	DA	1109	C
36	DA	1110	G
36	DA	1111	A

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Mol	Chain	Res	Type
36	DA	1112	G
36	DA	1114	G
36	DA	1115	G
36	DA	1122	G
36	DA	1126	A
36	DA	1135	C
36	DA	1136	G
36	DA	1141	U
36	DA	1142(A)	A
36	DA	1143	A
36	DA	1146	C
36	DA	1155	A
36	DA	1157	G
36	DA	1158	C
36	DA	1159	U
36	DA	1170	G
36	DA	1173	G
36	DA	1174	A
36	DA	1175	U
36	DA	1176	G
36	DA	1177	A
36	DA	1204	A
36	DA	1205	U
36	DA	1210	A
36	DA	1211	U
36	DA	1212	G
36	DA	1213	A
36	DA	1220	A
36	DA	1221	C
36	DA	1224	C
36	DA	1238	G
36	DA	1247	A
36	DA	1248	G
36	DA	1250	G
36	DA	1252	G
36	DA	1255	U
36	DA	1256	G
36	DA	1261	C
36	DA	1266	G
36	DA	1271	G
36	DA	1272	A
36	DA	1273	U

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Mol	Chain	Res	Type
36	DA	1287	A
36	DA	1300	U
36	DA	1302	A
36	DA	1314	C
36	DA	1326	U
36	DA	1329	U
36	DA	1330	C
36	DA	1332	G
36	DA	1345	C
36	DA	1349	A
36	DA	1359	A
36	DA	1365	A
36	DA	1368	G
36	DA	1379	A
36	DA	1380	G
36	DA	1384	A
36	DA	1385	G
36	DA	1386	C
36	DA	1396	U
36	DA	1403	C
36	DA	1406	U
36	DA	1411	C
36	DA	1416	G
36	DA	1421	G
36	DA	1428	C
36	DA	1434	A
36	DA	1435	G
36	DA	1445	A
36	DA	1445(A)	C
36	DA	1449	A
36	DA	1453	U
36	DA	1455	G
36	DA	1459	G
36	DA	1460	A
36	DA	1461	G
36	DA	1467	C
36	DA	1476	C
36	DA	1477	A
36	DA	1478	G
36	DA	1482	G
36	DA	1484	G
36	DA	1485	G

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Mol	Chain	Res	Type
36	DA	1488	G
36	DA	1490	A
36	DA	1491	G
36	DA	1493	C
36	DA	1494	A
36	DA	1495	A
36	DA	1496	A
36	DA	1497	U
36	DA	1505	C
36	DA	1509	C
36	DA	1509(A)	A
36	DA	1517	G
36	DA	1528(A)	A
36	DA	1541	G
36	DA	1542	A
36	DA	1544	A
36	DA	1553	A
36	DA	1554	A
36	DA	1558	A
36	DA	1559	G
36	DA	1569	A
36	DA	1578	U
36	DA	1579	A
36	DA	1584	C
36	DA	1586	A
36	DA	1588	C
36	DA	1608	A
36	DA	1609	A
36	DA	1610	A
36	DA	1616	A
36	DA	1618	A
36	DA	1634	A
36	DA	1640	C
36	DA	1644	C
36	DA	1648	C
36	DA	1674	G
36	DA	1699	G
36	DA	1718	G
36	DA	1722	A
36	DA	1739	U
36	DA	1744	C
36	DA	1748	G

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Mol	Chain	Res	Type
36	DA	1756	G
36	DA	1759	A
36	DA	1763	G
36	DA	1764	G
36	DA	1773	A
36	DA	1780	A
36	DA	1781	C
36	DA	1784	A
36	DA	1791	A
36	DA	1799	G
36	DA	1800	C
36	DA	1801	G
36	DA	1815	A
36	DA	1816	G
36	DA	1820	U
36	DA	1821	A
36	DA	1829	A
36	DA	1839	G
36	DA	1846	G
36	DA	1847	A
36	DA	1850	G
36	DA	1858	G
36	DA	1862	G
36	DA	1866	C
36	DA	1877	A
36	DA	1878	G
36	DA	1885	A
36	DA	1888	G
36	DA	1889	A
36	DA	1900	A
36	DA	1906	G
36	DA	1912	A
36	DA	1929	G
36	DA	1930	G
36	DA	1931	U
36	DA	1937	A
36	DA	1938	A
36	DA	1943	U
36	DA	1944	U
36	DA	1945	G
36	DA	1948	G
36	DA	1955	U

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Mol	Chain	Res	Type
36	DA	1960	A
36	DA	1963	U
36	DA	1964	G
36	DA	1967	C
36	DA	1969	A
36	DA	1970	A
36	DA	1971	A
36	DA	1972	A
36	DA	1993	U
36	DA	1997	G
36	DA	2004	G
36	DA	2021	C
36	DA	2022	U
36	DA	2031	A
36	DA	2033	A
36	DA	2034	U
36	DA	2043	C
36	DA	2055	C
36	DA	2056	G
36	DA	2060	A
36	DA	2061	G
36	DA	2062	A
36	DA	2065	C
36	DA	2069	G
36	DA	2076	U
36	DA	2100	G
36	DA	2103	C
36	DA	2104	G
36	DA	2111	C
36	DA	2116	G
36	DA	2118	U
36	DA	2127	G
36	DA	2132	U
36	DA	2133	G
36	DA	2134	A
36	DA	2147	G
36	DA	2158	A
36	DA	2159	G
36	DA	2163	C
36	DA	2172	U
36	DA	2173	A
36	DA	2185	C

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Mol	Chain	Res	Type
36	DA	2187	G
36	DA	2189	U
36	DA	2190	G
36	DA	2193	G
36	DA	2198	A
36	DA	2199	A
36	DA	2200	C
36	DA	2203	U
36	DA	2205	C
36	DA	2206	G
36	DA	2207	G
36	DA	2208	A
36	DA	2219	G
36	DA	2225	A
36	DA	2226	C
36	DA	2238	G
36	DA	2239	G
36	DA	2263	C
36	DA	2273	A
36	DA	2283	C
36	DA	2288	A
36	DA	2297	C
36	DA	2305	A
36	DA	2307	G
36	DA	2308	G
36	DA	2309	A
36	DA	2311	A
36	DA	2313	C
36	DA	2319	G
36	DA	2320	A
36	DA	2325	G
36	DA	2334	G
36	DA	2336	A
36	DA	2345	G
36	DA	2346	A
36	DA	2347	C
36	DA	2348	U
36	DA	2349	G
36	DA	2350	C
36	DA	2361	A
36	DA	2383	G
36	DA	2385	C

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Mol	Chain	Res	Type
36	DA	2402	C
36	DA	2423	U
36	DA	2424	C
36	DA	2425	A
36	DA	2427	C
36	DA	2428	G
36	DA	2429	G
36	DA	2430	A
36	DA	2431	U
36	DA	2434	A
36	DA	2435	A
36	DA	2439	A
36	DA	2441	C
36	DA	2448	A
36	DA	2461	C
36	DA	2465	C
36	DA	2469	A
36	DA	2470	G
36	DA	2473	U
36	DA	2474	C
36	DA	2476	A
36	DA	2477	C
36	DA	2478	A
36	DA	2482	G
36	DA	2484	G
36	DA	2502	G
36	DA	2503	A
36	DA	2505	G
36	DA	2520	C
36	DA	2524	G
36	DA	2529	G
36	DA	2543	G
36	DA	2554	U
36	DA	2566	A
36	DA	2567	G
36	DA	2572	A
36	DA	2573	C
36	DA	2577	A
36	DA	2582	G
36	DA	2585	U
36	DA	2586	C
36	DA	2602	A

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Mol	Chain	Res	Type
36	DA	2609	U
36	DA	2610	C
36	DA	2611	U
36	DA	2612	C
36	DA	2630	G
36	DA	2646	C
36	DA	2655	G
36	DA	2657	A
36	DA	2658	C
36	DA	2670	A
36	DA	2673	G
36	DA	2682	U
36	DA	2690	C
36	DA	2691	C
36	DA	2702	U
36	DA	2703	C
36	DA	2712	U
36	DA	2712(A)	A
36	DA	2713	A
36	DA	2726	U
36	DA	2733	A
36	DA	2750	A
36	DA	2751	G
36	DA	2755	C
36	DA	2756	U
36	DA	2757	A
36	DA	2758	A
36	DA	2762	G
36	DA	2764	A
36	DA	2765	A
36	DA	2766	G
36	DA	2778	A
36	DA	2779	U
36	DA	2790	A
36	DA	2791	C
36	DA	2796	U
36	DA	2799	C
36	DA	2801	A
36	DA	2802	G
36	DA	2803	C
36	DA	2808	U
36	DA	2820	A

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Mol	Chain	Res	Type
36	DA	2821	A
36	DA	2824	C
36	DA	2833	G
36	DA	2836	U
36	DA	2849	U
36	DA	2872	G
36	DA	2879	C
36	DA	2880	C
36	DA	2892	A
36	DA	2894	G
36	DA	2895	U
37	DB	8	U
37	DB	13	A
37	DB	14	U
37	DB	15	A
37	DB	16	G
37	DB	22	U
37	DB	25	A
37	DB	35	U
37	DB	41	U
37	DB	42	C
37	DB	45	A
37	DB	52	A
37	DB	53	A
37	DB	56	G
37	DB	67	G
37	DB	73	A
37	DB	81	G
37	DB	82	G
37	DB	88	C
37	DB	89	G
37	DB	90	A
37	DB	91	C
37	DB	104	U
37	DB	110	G
37	DB	113	G

All (202) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A

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Mol	Chain	Res	Type
1	AA	115	G
1	AA	119	A
1	AA	203	U
1	AA	243	A
1	AA	250	A
1	AA	315	A
1	AA	328	C
1	AA	345	C
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	533	A
1	AA	534	U
1	AA	575	G
1	AA	703	G
1	AA	748	C
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	1201	A
1	AA	1225	A
1	AA	1226	C
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1347	G
1	AA	1493	A
1	AA	1498	U
1	AA	1505	G
1	AA	1529	G
22	AV	17	C
23	AW	72	A
24	AX	11	A
24	AX	12	A
36	BA	27	G
36	BA	49	A
36	BA	74	A
36	BA	128	C

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Mol	Chain	Res	Type
36	BA	221	A
36	BA	226	G
36	BA	329	G
36	BA	331	A
36	BA	332	A
36	BA	363(F)	A
36	BA	474	G
36	BA	503	A
36	BA	603	A
36	BA	614(A)	U
36	BA	614(C)	A
36	BA	728	G
36	BA	739	G
36	BA	752	A
36	BA	1020	A
36	BA	1022	G
36	BA	1052	C
36	BA	1057	A
36	BA	1156	A
36	BA	1210	A
36	BA	1212	G
36	BA	1237	A
36	BA	1301	A
36	BA	1378	A
36	BA	1427	A
36	BA	1453	U
36	BA	1494	A
36	BA	1541	G
36	BA	1558	A
36	BA	1799	G
36	BA	1819	A
36	BA	1838	C
36	BA	1846	G
36	BA	1930	G
36	BA	1943	U
36	BA	1948	G
36	BA	1992	G
36	BA	2033	A
36	BA	2111	C
36	BA	2126	A
36	BA	2157	G
36	BA	2172	U

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Mol	Chain	Res	Type
36	BA	2198	A
36	BA	2225	A
36	BA	2282	G
36	BA	2296	U
36	BA	2344	U
36	BA	2345	G
36	BA	2422	A
36	BA	2425	A
36	BA	2481	G
36	BA	2611	U
36	BA	2689	U
36	BA	2690	C
36	BA	2756	U
36	BA	2778	A
36	BA	2799	C
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	315	A
1	CA	328	C
1	CA	345	C
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	533	A
1	CA	534	U
1	CA	575	G
1	CA	703	G
1	CA	748	C
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	1201	A
1	CA	1225	A

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Mol	Chain	Res	Type
1	CA	1226	C
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1347	G
1	CA	1493	A
1	CA	1498	U
22	CV	17	C
23	CW	72	A
24	CX	11	A
24	CX	12	A
36	DA	27	G
36	DA	49	A
36	DA	74	A
36	DA	128	C
36	DA	221	A
36	DA	226	G
36	DA	329	G
36	DA	331	A
36	DA	332	A
36	DA	363(F)	A
36	DA	474	G
36	DA	503	A
36	DA	603	A
36	DA	614(A)	U
36	DA	614(C)	A
36	DA	728	G
36	DA	739	G
36	DA	752	A
36	DA	961	C
36	DA	1020	A
36	DA	1022	G
36	DA	1052	C
36	DA	1057	A
36	DA	1156	A
36	DA	1210	A
36	DA	1212	G
36	DA	1237	A
36	DA	1301	A
36	DA	1378	A
36	DA	1427	A
36	DA	1453	U

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Mol	Chain	Res	Type
36	DA	1494	A
36	DA	1541	G
36	DA	1558	A
36	DA	1799	G
36	DA	1819	A
36	DA	1838	C
36	DA	1846	G
36	DA	1930	G
36	DA	1943	U
36	DA	1948	G
36	DA	1992	G
36	DA	2033	A
36	DA	2111	C
36	DA	2126	A
36	DA	2157	G
36	DA	2172	U
36	DA	2198	A
36	DA	2225	A
36	DA	2282	G
36	DA	2296	U
36	DA	2344	U
36	DA	2345	G
36	DA	2422	A
36	DA	2425	A
36	DA	2481	G
36	DA	2689	U
36	DA	2690	C
36	DA	2756	U
36	DA	2778	A
36	DA	2799	C
36	DA	2835	A
36	DA	2849	U

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

2 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
23	5MU	AW	54	23	12,22,23	1.32	3 (25%)	14,32,35	4.50	3 (21%)
23	5MU	CW	54	23	12,22,23	1.31	3 (25%)	14,32,35	4.48	3 (21%)

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
23	5MU	AW	54	23	-	0/3/25/26	0/2/2/2
23	5MU	CW	54	23	-	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)
23	CW	54	5MU	C6-C5	-2.19	1.34	1.40
23	AW	54	5MU	C6-C5	-2.09	1.34	1.40
23	CW	54	5MU	C6-N1	2.21	1.38	1.35
23	AW	54	5MU	C6-N1	2.34	1.38	1.35
23	AW	54	5MU	C4-N3	2.94	1.38	1.33
23	CW	54	5MU	C4-N3	2.98	1.38	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AW	54	5MU	C5-C4-N3	-8.93	115.20	125.14
23	CW	54	5MU	C5-C4-N3	-8.85	115.28	125.14
23	CW	54	5MU	C5M-C5-C6	2.11	122.87	118.62
23	AW	54	5MU	C5M-C5-C6	2.12	122.88	118.62
23	CW	54	5MU	C4-N3-C2	14.04	127.39	115.25
23	AW	54	5MU	C4-N3-C2	14.06	127.40	115.25

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	AW	54	5MU	2	0
23	CW	54	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
59	FUA	AY	701	-	37,40,40	1.70	6 (16%)	45,64,64	1.66	7 (15%)
60	GDP	AY	702	61	23,30,30	1.38	3 (13%)	30,47,47	1.79	6 (20%)
59	FUA	CY	701	-	37,40,40	1.72	6 (16%)	45,64,64	1.53	7 (15%)
60	GDP	CY	702	61	23,30,30	1.46	4 (17%)	30,47,47	2.01	9 (30%)

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
59	FUA	AY	701	-	-	0/10/92/92	0/4/4/4
60	GDP	AY	702	61	-	0/12/32/32	0/3/3/3
59	FUA	CY	701	-	-	0/10/92/92	0/4/4/4
60	GDP	CY	702	61	-	0/12/32/32	0/3/3/3

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	CY	701	FUA	C23-C22	-6.14	1.39	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	AY	701	FUA	C23-C22	-5.97	1.39	1.51
59	AY	701	FUA	C23-C24	-4.18	1.39	1.53
59	CY	701	FUA	C23-C24	-4.17	1.39	1.53
59	CY	701	FUA	C24-C25	-3.98	1.39	1.50
59	AY	701	FUA	C24-C25	-3.84	1.39	1.50
59	AY	701	FUA	C14-C8	-2.80	1.53	1.58
59	CY	701	FUA	C14-C8	-2.77	1.53	1.58
59	CY	701	FUA	C10-C9	-2.15	1.53	1.57
59	AY	701	FUA	C10-C9	-2.11	1.53	1.57
60	CY	702	GDP	C4-N3	-2.06	1.32	1.35
59	AY	701	FUA	C25-C26	2.26	1.39	1.32
60	AY	702	GDP	O4'-C1'	2.34	1.44	1.41
59	CY	701	FUA	C25-C26	2.43	1.39	1.32
60	CY	702	GDP	C2-N1	2.66	1.40	1.35
60	CY	702	GDP	O4'-C1'	2.71	1.44	1.41
60	AY	702	GDP	C2-N1	3.07	1.40	1.35
60	AY	702	GDP	C6-N1	4.02	1.40	1.33
60	CY	702	GDP	C6-N1	4.23	1.41	1.33

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	AY	702	GDP	C5-C6-N1	-4.67	117.20	123.59
60	AY	702	GDP	N3-C2-N1	-4.58	120.47	127.44
60	CY	702	GDP	N3-C2-N1	-4.56	120.50	127.44
59	AY	701	FUA	C13-C12-C11	-4.51	105.84	111.95
60	CY	702	GDP	PA-O3A-PB	-4.07	119.01	132.67
59	CY	701	FUA	C16-O2-C31	-4.01	110.67	117.14
60	CY	702	GDP	C5-C6-N1	-4.01	118.11	123.59
59	AY	701	FUA	C16-O2-C31	-3.73	111.12	117.14
60	AY	702	GDP	PA-O3A-PB	-3.60	120.58	132.67
60	CY	702	GDP	C4'-O4'-C1'	-3.48	105.89	109.72
59	AY	701	FUA	C8-C9-C10	-3.44	112.82	116.45
59	CY	701	FUA	C13-C12-C11	-3.31	107.47	111.95
60	CY	702	GDP	C2'-C1'-N9	-2.94	109.81	114.29
59	CY	701	FUA	C8-C9-C10	-2.89	113.40	116.45
60	AY	702	GDP	C4-C5-N7	-2.80	106.90	109.48
60	CY	702	GDP	C2'-C3'-C4'	-2.79	96.87	102.61
60	AY	702	GDP	C4'-O4'-C1'	-2.40	107.08	109.72
60	CY	702	GDP	O4'-C4'-C3'	-2.20	100.72	105.15
59	AY	701	FUA	C28-C26-C27	2.08	119.75	114.64
59	CY	701	FUA	C28-C26-C27	2.15	119.93	114.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	AY	701	FUA	C23-C24-C25	2.20	117.46	111.69
59	CY	701	FUA	O2-C31-C32	2.22	115.29	111.10
60	CY	702	GDP	N2-C2-N1	2.63	121.55	117.20
60	CY	702	GDP	C6-N1-C2	2.85	119.89	115.94
59	AY	701	FUA	O2-C31-C32	2.87	116.52	111.10
59	CY	701	FUA	C23-C24-C25	2.94	119.39	111.69
60	AY	702	GDP	C6-N1-C2	2.97	120.06	115.94
59	CY	701	FUA	C24-C23-C22	3.78	121.43	112.02
59	AY	701	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 64 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
59	AY	701	FUA	15	0
60	AY	702	GDP	13	0
59	CY	701	FUA	26	0
60	CY	702	GDP	10	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
9	AI	2
9	CI	2
42	DG	1
42	BG	1
23	CW	1
38	BC	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BG	112:PRO	C	113:ARG	N	3.28
1	DG	112:PRO	C	113:ARG	N	3.21
1	CI	53:VAL	C	54:ASP	N	3.01
1	AI	53:VAL	C	54:ASP	N	3.00
1	CI	104:ARG	C	105:ASP	N	2.58
1	AI	104:ARG	C	105:ASP	N	2.54
1	CW	38:A	O3'	39:C	P	2.06
1	BC	54:ARG	C	55:SER	N	0.98

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	-0.00	38 (2%) 61 45	34, 72, 165, 200	0
1	CA	1504/1522 (98%)	0.00	30 (1%) 68 53	43, 89, 174, 200	0
2	AB	235/256 (91%)	-0.44	1 (0%) 93 88	40, 82, 172, 191	0
2	CB	235/256 (91%)	-0.26	1 (0%) 93 88	53, 102, 164, 194	0
3	AC	207/239 (86%)	-0.57	0 100 100	23, 69, 122, 174	0
3	CC	207/239 (86%)	-0.46	0 100 100	45, 93, 143, 190	0
4	AD	208/209 (99%)	-0.27	0 100 100	46, 95, 144, 166	0
4	CD	208/209 (99%)	-0.20	1 (0%) 91 86	48, 107, 157, 188	0
5	AE	151/162 (93%)	-0.45	2 (1%) 79 66	27, 62, 107, 187	0
5	CE	151/162 (93%)	-0.31	3 (1%) 68 53	45, 76, 117, 200	0
6	AF	101/101 (100%)	-0.46	0 100 100	44, 85, 125, 174	0
6	CF	101/101 (100%)	-0.06	2 (1%) 68 53	72, 115, 152, 183	0
7	AG	155/156 (99%)	-0.42	1 (0%) 90 83	36, 80, 126, 182	0
7	CG	155/156 (99%)	-0.23	3 (1%) 70 55	63, 108, 150, 193	0
8	AH	138/138 (100%)	-0.53	0 100 100	35, 65, 111, 136	0
8	CH	138/138 (100%)	-0.42	0 100 100	45, 79, 117, 147	0
9	AI	127/128 (99%)	-0.20	0 100 100	41, 79, 135, 157	0
9	CI	127/128 (99%)	-0.02	2 (1%) 74 60	68, 111, 151, 175	0
10	AJ	99/105 (94%)	-0.01	4 (4%) 42 28	33, 87, 180, 193	0
10	CJ	99/105 (94%)	0.20	2 (2%) 68 53	60, 127, 179, 190	0
11	AK	119/129 (92%)	-0.26	3 (2%) 61 45	27, 62, 109, 171	0
11	CK	119/129 (92%)	-0.07	3 (2%) 61 45	48, 89, 126, 181	0
12	AL	125/132 (94%)	-0.31	3 (2%) 62 46	37, 76, 118, 180	0
12	CL	125/132 (94%)	-0.09	3 (2%) 62 46	42, 82, 124, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	0.03	5 (4%) 42 28	52, 98, 165, 200	0
13	CM	125/126 (99%)	0.18	7 (5%) 28 18	63, 126, 171, 200	0
14	AN	60/61 (98%)	-0.38	0 100 100	35, 62, 103, 131	0
14	CN	60/61 (98%)	-0.19	1 (1%) 73 58	58, 91, 127, 146	0
15	AO	88/89 (98%)	-0.45	0 100 100	27, 71, 116, 144	0
15	CO	88/89 (98%)	-0.29	0 100 100	31, 82, 119, 141	0
16	AP	84/88 (95%)	-0.13	0 100 100	36, 85, 130, 160	0
16	CP	84/88 (95%)	0.01	0 100 100	58, 95, 126, 166	0
17	AQ	100/105 (95%)	-0.30	0 100 100	40, 78, 112, 139	0
17	CQ	100/105 (95%)	-0.18	0 100 100	60, 84, 120, 147	0
18	AR	70/88 (79%)	-0.35	1 (1%) 78 64	38, 72, 119, 167	0
18	CR	70/88 (79%)	-0.25	1 (1%) 78 64	60, 95, 142, 167	0
19	AS	79/93 (84%)	-0.12	1 (1%) 79 66	63, 95, 174, 182	0
19	CS	79/93 (84%)	0.26	3 (3%) 44 30	74, 117, 181, 199	0
20	AT	99/106 (93%)	0.07	1 (1%) 84 72	55, 95, 147, 176	0
20	CT	99/106 (93%)	0.03	1 (1%) 84 72	72, 103, 153, 173	0
21	AU	25/27 (92%)	0.20	2 (8%) 15 9	33, 84, 132, 167	0
21	CU	25/27 (92%)	0.60	2 (8%) 15 9	77, 115, 145, 164	0
22	AV	76/76 (100%)	-0.01	1 (1%) 79 66	51, 94, 154, 200	0
22	CV	76/76 (100%)	0.01	2 (2%) 59 43	67, 107, 165, 200	0
23	AW	76/77 (98%)	0.76	9 (11%) 6 5	97, 182, 200, 200	0
23	CW	76/77 (98%)	0.86	9 (11%) 6 5	97, 190, 200, 200	0
24	AX	12/25 (48%)	2.62	8 (66%) 0 1	52, 114, 167, 193	0
24	CX	12/25 (48%)	2.18	5 (41%) 0 1	52, 114, 172, 193	0
25	AY	667/691 (96%)	0.57	77 (11%) 6 5	71, 142, 179, 200	0
25	CY	667/691 (96%)	0.69	94 (14%) 4 3	84, 151, 186, 200	0
26	B0	84/85 (98%)	0.21	3 (3%) 46 32	61, 87, 134, 191	0
26	D0	84/85 (98%)	0.71	8 (9%) 10 6	78, 109, 144, 172	0
27	B1	94/98 (95%)	-0.10	0 100 100	50, 88, 142, 151	0
27	D1	94/98 (95%)	0.13	3 (3%) 51 35	59, 99, 153, 181	0
28	B2	71/72 (98%)	0.06	3 (4%) 40 27	79, 127, 176, 194	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	D2	71/72 (98%)	0.28	2 (2%) 56 41	82, 134, 172, 186	0
29	B3	60/60 (100%)	0.55	5 (8%) 14 9	55, 95, 148, 180	0
29	D3	60/60 (100%)	0.48	2 (3%) 50 35	61, 105, 145, 174	0
30	B4	58/71 (81%)	0.26	2 (3%) 49 34	90, 141, 200, 200	0
30	D4	58/71 (81%)	0.28	3 (5%) 31 21	106, 166, 200, 200	0
31	B5	59/60 (98%)	-0.01	3 (5%) 32 21	46, 96, 175, 192	0
31	D5	59/60 (98%)	0.11	3 (5%) 32 21	50, 104, 167, 200	0
32	B6	50/54 (92%)	0.42	4 (8%) 15 9	55, 97, 142, 173	0
32	D6	50/54 (92%)	0.53	3 (6%) 25 15	71, 111, 153, 178	0
33	B7	49/49 (100%)	0.08	1 (2%) 68 53	51, 79, 117, 200	0
33	D7	49/49 (100%)	0.03	0 100 100	64, 91, 127, 166	0
34	B8	64/65 (98%)	-0.10	2 (3%) 52 37	51, 81, 124, 148	0
34	D8	64/65 (98%)	0.06	1 (1%) 74 60	67, 104, 137, 168	0
35	B9	37/37 (100%)	0.09	2 (5%) 29 19	66, 89, 127, 141	0
35	D9	37/37 (100%)	0.27	2 (5%) 29 19	65, 91, 151, 187	0
36	BA	2901/2915 (99%)	0.06	62 (2%) 67 52	36, 88, 184, 200	0
36	DA	2901/2915 (99%)	0.07	63 (2%) 65 50	42, 102, 186, 200	0
37	BB	119/122 (97%)	-0.23	1 (0%) 87 77	68, 101, 129, 160	0
37	DB	119/122 (97%)	-0.15	0 100 100	83, 126, 154, 189	0
38	BC	228/229 (99%)	-0.10	6 (2%) 59 43	44, 101, 163, 195	0
38	DC	228/229 (99%)	0.25	13 (5%) 27 17	66, 125, 187, 199	0
39	BD	275/276 (99%)	-0.39	1 (0%) 93 88	31, 64, 106, 155	0
39	DD	275/276 (99%)	-0.36	0 100 100	40, 74, 115, 163	0
40	BE	205/206 (99%)	-0.12	2 (0%) 84 72	37, 88, 146, 184	0
40	DE	205/206 (99%)	-0.05	3 (1%) 76 62	50, 97, 157, 200	0
41	BF	208/210 (99%)	-0.05	5 (2%) 62 46	53, 111, 183, 200	0
41	DF	208/210 (99%)	0.15	8 (3%) 44 30	58, 131, 186, 200	0
42	BG	181/182 (99%)	-0.28	4 (2%) 65 50	51, 99, 144, 194	0
42	DG	181/182 (99%)	-0.04	5 (2%) 56 41	67, 122, 168, 192	0
43	BH	167/180 (92%)	0.48	9 (5%) 29 19	87, 131, 174, 185	0
43	DH	167/180 (92%)	0.36	5 (2%) 54 37	76, 133, 175, 185	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	BJ	0/173	-	-	-	-
44	DJ	0/173	-	-	-	-
45	BN	139/140 (99%)	-0.19	0 100 100	60, 99, 148, 177	0
45	DN	139/140 (99%)	-0.07	3 (2%) 65 50	64, 108, 162, 176	0
46	BO	122/122 (100%)	-0.26	0 100 100	34, 72, 107, 128	0
46	DO	122/122 (100%)	-0.26	0 100 100	40, 79, 108, 156	0
47	BP	146/150 (97%)	0.17	2 (1%) 78 64	48, 104, 158, 195	0
47	DP	146/150 (97%)	0.54	7 (4%) 34 22	52, 127, 173, 195	0
48	BQ	141/141 (100%)	-0.31	0 100 100	39, 77, 122, 173	0
48	DQ	141/141 (100%)	-0.26	1 (0%) 89 81	52, 86, 127, 185	0
49	BR	117/118 (99%)	-0.16	0 100 100	36, 89, 128, 177	0
49	DR	117/118 (99%)	-0.04	0 100 100	46, 95, 135, 181	0
50	BS	99/112 (88%)	-0.12	1 (1%) 84 72	53, 109, 156, 191	0
50	DS	99/112 (88%)	0.36	4 (4%) 42 28	51, 121, 164, 192	0
51	BT	138/146 (94%)	-0.19	5 (3%) 46 32	53, 95, 168, 200	0
51	DT	138/146 (94%)	-0.19	5 (3%) 46 32	56, 103, 172, 200	0
52	BU	117/118 (99%)	-0.29	1 (0%) 85 75	55, 91, 138, 200	0
52	DU	117/118 (99%)	-0.19	1 (0%) 85 75	66, 104, 147, 191	0
53	BV	101/101 (100%)	0.02	2 (1%) 68 53	43, 112, 158, 177	0
53	DV	101/101 (100%)	0.34	4 (3%) 42 28	64, 126, 171, 193	0
54	BW	113/113 (100%)	-0.01	1 (0%) 85 75	56, 95, 150, 195	0
54	DW	113/113 (100%)	0.30	7 (6%) 24 14	73, 106, 158, 194	0
55	BX	93/96 (96%)	-0.07	1 (1%) 82 70	61, 101, 133, 176	0
55	DX	93/96 (96%)	-0.03	1 (1%) 82 70	63, 111, 141, 154	0
56	BY	107/110 (97%)	0.69	10 (9%) 11 7	93, 138, 178, 187	0
56	DY	107/110 (97%)	1.13	16 (14%) 3 2	87, 147, 182, 200	0
57	BZ	185/206 (89%)	-0.02	2 (1%) 82 70	50, 108, 163, 190	0
57	DZ	185/206 (89%)	0.11	2 (1%) 82 70	54, 122, 170, 199	0
All	All	22516/23492 (95%)	0.02	647 (2%) 55 39	23, 98, 175, 200	0

All (647) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
36	DA	654(E)	G	13.5
1	AA	89	C	12.6
23	CW	17	C	12.0
36	DA	654(D)	G	11.6
36	BA	654(D)	G	11.4
36	BA	2802	G	11.1
1	CA	1036	G	11.1
23	AW	17	C	10.9
36	BA	654(F)	C	10.4
31	D5	60	VAL	10.3
13	AM	124	PRO	10.2
36	BA	654(E)	G	9.8
1	AA	1036	G	9.8
12	CL	129	ALA	9.8
36	BA	654(K)	C	9.4
23	CW	34	C	9.2
36	BA	654(I)	C	9.2
56	DY	107	ASP	9.0
1	AA	1026	G	9.0
36	DA	2802	G	9.0
1	CA	89	C	8.8
1	AA	1030(B)	C	8.7
36	DA	654(S)	G	8.4
13	CM	124	PRO	8.2
23	AW	34	C	8.2
36	BA	654(H)	G	7.9
36	DA	654(F)	C	7.9
1	CA	81	U	7.8
1	CA	80	G	7.6
5	CE	155	GLU	7.6
42	BG	48	GLU	7.4
25	AY	630	GLN	7.2
40	BE	205	ALA	7.1
1	CA	82	U	6.9
11	CK	129	SER	6.8
36	BA	2795	G	6.8
36	BA	654(G)	C	6.8
1	AA	1028	C	6.7
36	DA	2897	U	6.7
31	D5	59	GLU	6.6
1	AA	81	U	6.5
36	DA	654(G)	C	6.4
31	B5	60	VAL	6.4

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Mol	Chain	Res	Type	RSRZ
1	AA	1029	C	6.4
1	AA	88	A	6.3
25	CY	571	SER	6.3
36	DA	654(K)	C	6.3
13	AM	123	ALA	6.2
36	BA	654(L)	G	6.2
1	CA	88	A	6.2
1	AA	80	G	6.1
24	AX	12	A	6.0
1	CA	1030(B)	C	6.0
29	B3	1	MET	5.9
36	DA	2796	U	5.9
47	DP	149	GLU	5.9
22	AV	1	G	5.9
36	DA	654(J)	A	5.9
56	DY	108	THR	5.9
36	BA	2897	U	5.8
2	CB	7	VAL	5.7
25	AY	116	PRO	5.7
36	BA	2894	G	5.7
23	CW	17(A)	U	5.6
51	BT	138	ALA	5.6
13	CM	125	ARG	5.5
13	CM	123	ALA	5.5
42	BG	49	ASP	5.5
42	DG	48	GLU	5.5
1	AA	1030(C)	G	5.4
36	BA	654(S)	G	5.4
36	BA	654(J)	A	5.4
29	D3	1	MET	5.4
22	CV	1	G	5.3
42	DG	2	PRO	5.2
31	B5	59	GLU	5.2
38	BC	2	PRO	5.2
19	CS	81	ARG	5.2
42	DG	49	ASP	5.2
13	AM	122	LYS	5.1
5	AE	155	GLU	5.1
1	AA	93	G	5.1
12	CL	128	ALA	5.1
13	CM	122	LYS	5.0
40	DE	204	ALA	5.0

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Mol	Chain	Res	Type	RSRZ
28	B2	72	ALA	5.0
25	AY	114	VAL	5.0
1	CA	1030(A)	G	4.9
28	D2	71	ASN	4.9
36	DA	654(C)	G	4.9
1	CA	1026	G	4.9
25	AY	642	VAL	4.9
24	AX	11	A	4.9
1	AA	82	U	4.9
25	AY	533	VAL	4.8
25	AY	532	GLY	4.8
12	AL	129	ALA	4.8
25	AY	631	ILE	4.7
23	CW	16	C	4.7
1	CA	1035	A	4.7
41	DF	208	GLY	4.7
47	DP	150	ALA	4.7
36	DA	654(H)	G	4.7
26	D0	3	HIS	4.7
11	AK	129	SER	4.7
41	DF	1	MET	4.6
53	BV	101	GLY	4.6
11	AK	128	ALA	4.6
36	DA	654(L)	G	4.5
36	DA	2793	G	4.5
25	CY	529	ILE	4.5
36	DA	654(I)	C	4.5
36	BA	2804	C	4.4
22	CV	47	U	4.4
23	CW	37	A	4.4
1	AA	1030(A)	G	4.4
36	BA	2896	C	4.4
36	BA	654(C)	G	4.4
42	BG	50	ALA	4.4
36	BA	654	A	4.3
36	DA	2896	C	4.3
26	B0	3	HIS	4.2
11	CK	128	ALA	4.2
25	CY	532	GLY	4.2
25	AY	617	MET	4.2
36	DA	2799	C	4.2
1	AA	1001(A)	G	4.2

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Mol	Chain	Res	Type	RSRZ
26	D0	6	GLY	4.2
36	DA	156	U	4.2
42	BG	2	PRO	4.2
36	DA	884	C	4.1
23	CW	35	A	4.1
25	AY	418	LYS	4.1
28	B2	71	ASN	4.1
21	AU	26	LYS	4.1
1	AA	83	U	4.0
25	CY	496	LYS	4.0
24	CX	12	A	4.0
25	AY	496	LYS	4.0
30	B4	54	GLY	4.0
36	DA	1174	A	4.0
36	BA	2799	C	4.0
36	DA	2804	C	4.0
18	AR	88	LYS	4.0
56	DY	6	HIS	4.0
26	B0	2	ALA	4.0
25	CY	111	SER	4.0
36	BA	888	C	3.9
19	CS	82	GLY	3.9
36	BA	271(N)	U	3.9
25	CY	572	TYR	3.9
51	DT	134	GLU	3.9
25	CY	641	GLN	3.9
56	DY	36	ALA	3.9
23	CW	36	U	3.9
36	DA	275	G	3.9
1	AA	1031	G	3.9
1	CA	83	U	3.9
51	BT	137	LYS	3.8
25	CY	114	VAL	3.8
25	CY	194	THR	3.8
25	CY	642	VAL	3.8
56	DY	106	LEU	3.8
25	CY	635	GLU	3.8
28	D2	72	ALA	3.8
36	BA	2801	A	3.8
36	BA	1174	A	3.7
34	B8	65	GLU	3.7
53	DV	36	PRO	3.7

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Mol	Chain	Res	Type	RSRZ
36	BA	2796	U	3.7
25	CY	533	VAL	3.7
5	AE	154	GLY	3.7
25	AY	577	SER	3.7
43	BH	44	VAL	3.7
25	CY	83	ASP	3.7
36	BA	2803	C	3.7
1	CA	93	G	3.7
30	D4	57	GLU	3.7
1	CA	1005	A	3.7
36	BA	1095	A	3.7
13	AM	125	ARG	3.7
14	CN	2	ALA	3.6
25	CY	422	GLU	3.6
23	AW	17(A)	U	3.6
36	DA	896	A	3.6
43	BH	174	GLY	3.6
36	BA	885	C	3.6
25	AY	421	GLN	3.6
1	CA	84	U	3.6
36	BA	654(V)	A	3.6
25	CY	116	PRO	3.6
5	CE	5	ASP	3.6
25	AY	419	ALA	3.6
1	CA	1257	U	3.5
25	AY	41	LYS	3.5
43	BH	175	LYS	3.5
36	BA	2895	U	3.5
38	DC	78	ILE	3.5
1	CA	1028	C	3.5
36	DA	654(R)	C	3.5
24	AX	13	A	3.5
25	AY	634	MET	3.5
25	AY	619	ASP	3.5
24	CX	11	A	3.5
56	DY	28	LYS	3.5
1	AA	1002	G	3.5
35	D9	1	MET	3.5
52	DU	118	GLY	3.5
1	CA	1029	C	3.5
25	CY	425	SER	3.5
26	B0	4	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
38	DC	116	ALA	3.4
13	CM	126	LYS	3.4
1	AA	1027	C	3.4
25	AY	422	GLU	3.4
25	AY	506	GLN	3.4
38	BC	123	ALA	3.4
51	BT	136	GLN	3.4
25	CY	616	TYR	3.4
6	CF	101	ALA	3.4
25	CY	629	GLY	3.4
1	CA	1027	C	3.4
1	AA	1035	A	3.4
36	DA	1509	C	3.4
36	BA	1057	A	3.3
36	DA	2795	G	3.3
25	AY	192	LEU	3.3
25	AY	497	PHE	3.3
10	AJ	88	LEU	3.3
38	DC	2	PRO	3.3
56	DY	30	VAL	3.3
25	CY	41	LYS	3.3
25	AY	203	GLU	3.3
25	CY	202	PRO	3.3
51	DT	135	ALA	3.3
36	BA	884	C	3.3
26	D0	7	LEU	3.3
30	D4	58	ARG	3.3
38	DC	77	ALA	3.3
36	BA	654(A)	G	3.3
18	CR	88	LYS	3.3
36	BA	275	G	3.3
38	DC	79	ALA	3.3
25	CY	84	THR	3.3
25	CY	689	LYS	3.3
36	DA	2792	G	3.3
43	BH	176	ALA	3.3
45	DN	11	PRO	3.2
41	BF	12	LEU	3.2
25	AY	633	GLY	3.2
25	CY	634	MET	3.2
40	DE	205	ALA	3.2
25	CY	217	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
31	B5	58	LEU	3.2
53	DV	101	GLY	3.2
7	CG	82	GLY	3.2
10	AJ	80	LYS	3.1
36	DA	1534	U	3.1
1	CA	78	G	3.1
36	DA	888	C	3.1
25	AY	608	VAL	3.1
25	CY	446	THR	3.1
25	AY	511	LYS	3.1
25	AY	514	VAL	3.1
25	CY	612	THR	3.1
25	AY	572	TYR	3.1
25	AY	585	ALA	3.1
54	DW	1	MET	3.1
24	CX	22	A	3.1
25	AY	83	ASP	3.1
23	AW	36	U	3.1
25	AY	122	TRP	3.1
25	CY	640	ALA	3.1
25	CY	235	GLU	3.1
25	AY	425	SER	3.1
25	CY	512	ILE	3.1
36	DA	1740	G	3.1
25	CY	40	HIS	3.0
25	CY	147	TRP	3.0
25	CY	497	PHE	3.0
1	AA	1001	A	3.0
25	AY	573	HIS	3.0
25	AY	224	ASP	3.0
47	BP	150	ALA	3.0
1	AA	1030(D)	A	3.0
45	DN	10	GLU	3.0
43	BH	137	ASP	3.0
25	CY	686	LYS	3.0
24	CX	13	A	3.0
36	BA	2207	G	3.0
25	CY	617	MET	2.9
36	DA	2892	A	2.9
25	CY	651	GLU	2.9
25	CY	452	SER	2.9
47	DP	106	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
56	BY	107	ASP	2.9
1	CA	1001(A)	G	2.9
36	BA	2793	G	2.9
25	AY	202	PRO	2.9
29	B3	38	GLU	2.9
25	CY	471	LYS	2.9
36	BA	654(M)	C	2.9
36	BA	352	G	2.9
1	AA	1531	A	2.9
12	AL	128	ALA	2.9
56	DY	37	VAL	2.9
10	AJ	25	GLU	2.9
35	D9	37	GLY	2.9
10	CJ	73	ASP	2.9
36	BA	1067	A	2.9
36	DA	654(A)	G	2.9
7	CG	83	ALA	2.9
25	CY	237	PRO	2.9
36	BA	2805	G	2.8
25	AY	507	TYR	2.8
52	BU	118	GLY	2.8
56	BY	106	LEU	2.8
25	AY	426	GLN	2.8
56	DY	105	ALA	2.8
1	AA	92	C	2.8
25	AY	615	GLU	2.8
31	D5	2	ALA	2.8
5	CE	154	GLY	2.8
56	BY	41	GLY	2.8
25	CY	614	GLU	2.8
51	DT	137	LYS	2.8
25	CY	505	GLY	2.8
36	DA	352	G	2.8
23	CW	47	U	2.8
25	CY	687	LEU	2.8
36	DA	883	G	2.8
13	CM	121	LYS	2.8
25	CY	445	GLU	2.8
36	BA	654(N)	G	2.8
36	DA	271(N)	U	2.8
25	AY	645	ALA	2.8
36	BA	2794	C	2.8

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Mol	Chain	Res	Type	RSRZ
36	DA	654(V)	A	2.8
13	AM	84	ILE	2.8
25	CY	255	ILE	2.8
26	D0	5	LYS	2.8
23	AW	35	A	2.8
25	AY	420	ASP	2.7
25	CY	420	ASP	2.7
13	CM	120	LYS	2.7
51	DT	1	MET	2.7
43	DH	123	PHE	2.7
25	AY	417	THR	2.7
25	CY	576	ASP	2.7
36	DA	885	C	2.7
36	DA	1077	A	2.7
36	DA	1176	G	2.7
25	AY	522	GLY	2.7
47	DP	15	ARG	2.7
56	DY	84	ARG	2.7
36	DA	2794	C	2.7
25	AY	395	PRO	2.7
25	CY	39	ILE	2.7
40	DE	69	LYS	2.7
50	DS	61	ASN	2.7
12	CL	127	GLU	2.7
36	BA	2892	A	2.7
53	DV	15	GLU	2.7
36	BA	1536	C	2.7
32	B6	26	ASN	2.6
32	D6	26	ASN	2.6
36	BA	2801(A)	A	2.6
36	DA	1095	A	2.6
36	DA	2803	C	2.6
54	DW	108	GLY	2.6
35	B9	1	MET	2.6
25	AY	643	ILE	2.6
41	DF	50	SER	2.6
56	DY	38	ILE	2.6
34	D8	64	TYR	2.6
2	AB	7	VAL	2.6
25	CY	577	SER	2.6
9	CI	95	LYS	2.6
25	CY	524	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
25	AY	618	GLY	2.6
47	DP	5	ASP	2.6
1	CA	999	C	2.6
38	DC	124	VAL	2.6
25	AY	429	ALA	2.6
25	CY	421	GLN	2.6
25	AY	246	ILE	2.6
1	AA	1447	A	2.6
25	AY	498	ILE	2.6
56	BY	37	VAL	2.6
36	DA	2893	G	2.6
29	B3	39	ASP	2.6
24	CX	21	A	2.6
25	CY	507	TYR	2.6
36	DA	1088	A	2.6
36	DA	2801(A)	A	2.6
25	AY	629	GLY	2.6
29	B3	59	VAL	2.5
36	BA	508	G	2.5
36	BA	883	G	2.5
25	CY	522	GLY	2.5
25	CY	42	ILE	2.5
36	BA	1534	U	2.5
36	DA	157	U	2.5
25	CY	67	ALA	2.5
25	CY	234	GLY	2.5
54	DW	73	ALA	2.5
41	BF	133	ASN	2.5
25	CY	517	LEU	2.5
38	DC	104	ILE	2.5
41	BF	24	LEU	2.5
1	CA	841	U	2.5
23	AW	16	C	2.5
36	BA	1509	C	2.5
1	AA	1024	G	2.5
38	DC	147	GLY	2.5
25	AY	115	GLU	2.5
25	CY	204	GLU	2.5
7	CG	84	ASN	2.5
1	CA	90	U	2.5
36	BA	1420	U	2.5
41	DF	11	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
24	AX	15	G	2.5
25	AY	43	GLY	2.5
25	CY	413	ILE	2.5
21	CU	24	ARG	2.5
25	CY	639	ASN	2.5
25	AY	220	ALA	2.5
25	CY	426	GLN	2.5
10	CJ	85	LEU	2.5
47	DP	81	GLN	2.5
36	DA	654(O)	G	2.5
29	B3	57	GLU	2.5
25	CY	410	ASP	2.5
25	CY	423	LYS	2.4
50	DS	59	LYS	2.4
1	AA	1003	G	2.4
25	AY	620	VAL	2.4
25	CY	552	SER	2.4
36	DA	1073	A	2.4
25	CY	682	GLN	2.4
37	BB	88	C	2.4
47	DP	126	VAL	2.4
25	AY	538	TYR	2.4
26	D0	71	ASP	2.4
41	DF	18	ARG	2.4
1	AA	1005	A	2.4
25	AY	510	VAL	2.4
25	CY	608	VAL	2.4
32	D6	19	ARG	2.4
56	BY	46	LYS	2.4
36	DA	654(P)	C	2.4
25	CY	236	GLU	2.4
25	CY	475	ASN	2.4
38	DC	146	VAL	2.4
1	AA	1030	C	2.4
24	AX	16	U	2.4
25	AY	40	HIS	2.4
1	CA	1030(C)	G	2.4
54	DW	2	GLU	2.4
25	AY	529	ILE	2.4
36	BA	1177	A	2.4
25	CY	495	GLY	2.4
26	D0	4	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
36	BA	886	C	2.4
54	DW	5	ALA	2.4
1	CA	1002	G	2.4
25	AY	113	GLY	2.4
25	CY	494	GLU	2.4
54	BW	5	ALA	2.4
1	AA	1037	C	2.4
1	AA	78	G	2.4
36	BA	1065	U	2.4
36	DA	1420	U	2.4
1	AA	76	C	2.4
25	AY	223	PHE	2.4
27	D1	81	LYS	2.4
25	CY	97	SER	2.4
50	DS	54	LEU	2.4
7	AG	84	ASN	2.4
56	BY	72	VAL	2.4
56	BY	6	HIS	2.4
26	D0	37	LEU	2.3
50	BS	54	LEU	2.3
38	BC	131	ILE	2.3
20	CT	9	ASN	2.3
25	AY	111	SER	2.3
42	DG	50	ALA	2.3
57	BZ	173	ALA	2.3
38	DC	128	LEU	2.3
25	AY	423	LYS	2.3
25	CY	490	PRO	2.3
1	AA	1257	U	2.3
25	CY	203	GLU	2.3
41	BF	1	MET	2.3
36	BA	1173	G	2.3
36	DA	2894	G	2.3
25	CY	115	GLU	2.3
25	CY	472	VAL	2.3
11	CK	11	LYS	2.3
27	D1	73	LEU	2.3
57	DZ	115	GLY	2.3
25	AY	641	GLN	2.3
36	DA	2895	U	2.3
1	CA	1447	A	2.3
53	BV	36	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
56	BY	66	PRO	2.3
40	BE	204	ALA	2.3
36	DA	2207	G	2.3
25	CY	5	VAL	2.3
43	BH	33	LEU	2.3
6	CF	100	ASN	2.3
36	DA	654	A	2.3
30	B4	53	GLU	2.3
30	D4	47	GLN	2.3
43	DH	43	VAL	2.3
25	AY	466	LEU	2.3
25	CY	397	VAL	2.3
35	B9	37	GLY	2.3
25	CY	221	ALA	2.3
36	BA	1076	C	2.3
36	DA	886	C	2.3
25	CY	665	GLY	2.3
43	BH	42	ARG	2.3
41	DF	23	ASP	2.3
25	CY	611	THR	2.3
36	DA	654(N)	G	2.2
48	DQ	141	GLN	2.2
25	CY	223	PHE	2.2
25	CY	528	ALA	2.2
32	B6	24	GLU	2.2
36	BA	156	U	2.2
51	BT	134	GLU	2.2
36	DA	2145	C	2.2
25	CY	498	ILE	2.2
38	BC	124	VAL	2.2
28	B2	70	GLN	2.2
1	CA	1531	A	2.2
25	AY	226	ASN	2.2
21	CU	26	LYS	2.2
19	AS	81	ARG	2.2
25	AY	574	GLU	2.2
1	AA	1020	U	2.2
26	D0	70	GLN	2.2
25	CY	511	LYS	2.2
36	BA	882	G	2.2
24	AX	18	C	2.2
33	B7	49	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
11	AK	127	LYS	2.2
25	AY	604	PRO	2.2
25	AY	612	THR	2.2
36	DA	277	C	2.2
56	DY	81	LYS	2.2
55	BX	84	ALA	2.2
19	CS	10	PHE	2.2
34	B8	64	TYR	2.2
38	BC	229	SER	2.2
56	DY	26	LYS	2.2
24	AX	14	U	2.2
43	BH	52	VAL	2.2
36	DA	1067	A	2.2
57	BZ	114	GLY	2.2
25	AY	494	GLU	2.2
1	AA	90	U	2.2
25	CY	451	ILE	2.2
25	AY	459	LEU	2.2
25	CY	643	ILE	2.2
56	BY	36	ALA	2.2
56	BY	71	LYS	2.2
25	AY	680	PRO	2.2
23	AW	20	U	2.1
23	AW	47	U	2.1
25	AY	616	TYR	2.1
45	DN	8	GLN	2.1
36	DA	887	A	2.1
1	AA	84	U	2.1
29	D3	2	PRO	2.1
25	CY	230	LYS	2.1
51	BT	135	ALA	2.1
36	BA	229	A	2.1
36	BA	1535	A	2.1
43	DH	42	ARG	2.1
36	BA	1075	C	2.1
32	D6	54	ILE	2.1
1	CA	79	G	2.1
54	DW	3	ALA	2.1
25	AY	42	ILE	2.1
54	DW	104	THR	2.1
36	DA	654(Q)	C	2.1
25	AY	571	SER	2.1

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Mol	Chain	Res	Type	RSRZ
27	D1	82	LEU	2.1
12	AL	127	GLU	2.1
36	BA	1740	G	2.1
25	AY	531	GLY	2.1
41	DF	12	LEU	2.1
51	DT	136	GLN	2.1
57	DZ	173	ALA	2.1
25	CY	224	ASP	2.1
25	CY	94	VAL	2.1
25	CY	523	PHE	2.1
25	CY	531	GLY	2.1
36	BA	271(K)	U	2.1
36	DA	1065	U	2.1
56	DY	101	LYS	2.1
4	CD	176	LEU	2.1
25	CY	134	ALA	2.1
25	CY	197	ARG	2.1
25	CY	233	GLU	2.1
43	DH	44	VAL	2.1
42	DG	75	LYS	2.1
25	AY	198	GLU	2.1
47	BP	149	GLU	2.1
55	DX	50	LYS	2.1
25	AY	482	ALA	2.1
9	CI	96	LEU	2.1
1	AA	1033	G	2.1
1	AA	1039	C	2.1
23	AW	6	G	2.1
50	DS	53	SER	2.1
25	CY	506	GLN	2.1
53	DV	20	LEU	2.0
21	AU	25	LYS	2.0
41	BF	10	PRO	2.0
43	DH	131	VAL	2.0
1	CA	1037	C	2.0
32	B6	42	TRP	2.0
38	DC	114	VAL	2.0
39	BD	276	LYS	2.0
25	AY	640	ALA	2.0
36	DA	1080	C	2.0
1	AA	204	U	2.0
56	DY	45	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
38	DC	109	MET	2.0
25	AY	524	GLU	2.0
23	CW	13	C	2.0
36	BA	654(R)	C	2.0
41	DF	2	LYS	2.0
43	BH	87	LEU	2.0
20	AT	103	GLY	2.0
25	AY	445	GLU	2.0
38	DC	96	GLY	2.0
25	CY	435	ASP	2.0
56	DY	43	ASN	2.0
10	AJ	85	LEU	2.0
1	CA	839	U	2.0
24	AX	17	U	2.0
32	B6	35	GLU	2.0
38	BC	106	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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
23	5MU	AW	54	21/22	0.58	0.27	-	200,200,200,200	0
23	5MU	CW	54	21/22	0.79	0.15	-	200,200,200,200	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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(\AA^2)	Q<0.9
59	FUA	AY	701	37/37	0.68	0.65	2.76	98,102,110,111	0
58	ZN	AD	301	1/1	0.98	0.30	1.81	78,78,78,78	0
59	FUA	CY	701	37/37	0.62	0.64	1.66	102,104,107,109	0
58	ZN	AN	101	1/1	0.97	0.24	1.28	84,84,84,84	0
60	GDP	AY	702	28/28	0.88	0.23	-0.27	93,97,99,99	0
58	ZN	CD	301	1/1	0.99	0.23	-0.28	69,69,69,69	0
60	GDP	CY	702	28/28	0.92	0.17	-1.15	96,102,109,110	0
58	ZN	CN	101	1/1	0.99	0.14	-1.17	86,86,86,86	0
58	ZN	B9	101	1/1	0.99	0.10	-1.31	93,93,93,93	0
58	ZN	D4	1000	1/1	0.34	0.14	-1.33	200,200,200,200	0
58	ZN	D9	1000	1/1	0.96	0.09	-1.48	123,123,123,123	0
58	ZN	B4	101	1/1	0.91	0.08	-3.39	172,172,172,172	0
61	MG	AY	703	1/1	0.97	0.31	-	55,55,55,55	0
61	MG	CY	703	1/1	0.87	0.22	-	46,46,46,46	0

6.5 Other polymers

There are no such residues in this entry.