



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 04:56 PM UTC

PDB ID : 4V5G / pdb_00004v5g
Title : The crystal structure of the 70S ribosome bound to EF-Tu and tRNA
Authors : Schmeing, T.M.; Voorhees, R.M.; Ramakrishnan, V.
Deposited on : 2009-09-01
Resolution : 3.60 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

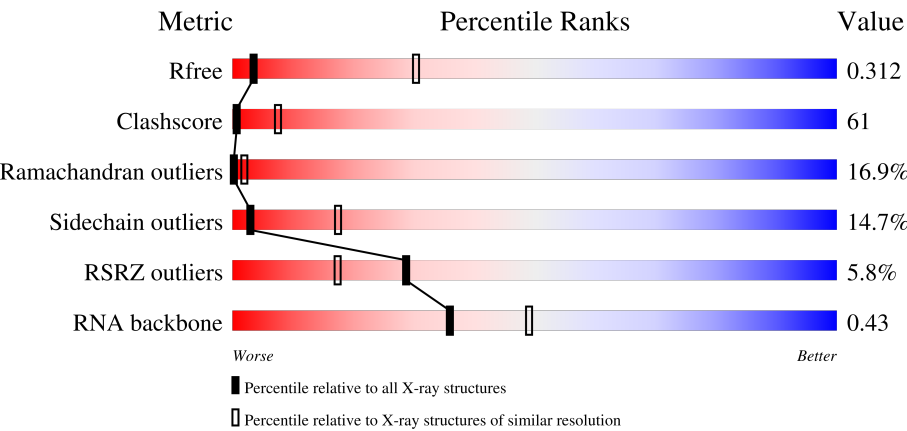
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.60 Å.

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



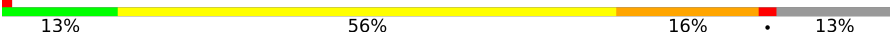
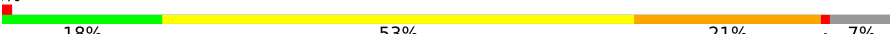
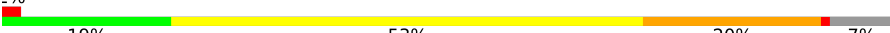
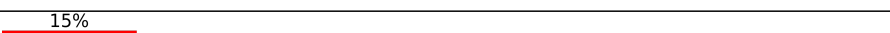
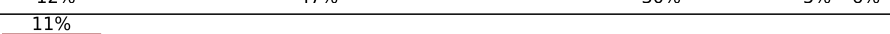
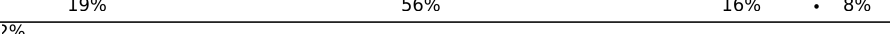
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1747 (3.70-3.50)
Clashscore	190562	1827 (3.70-3.50)
Ramachandran outliers	187476	1773 (3.70-3.50)
Sidechain outliers	187428	1772 (3.70-3.50)
RSRZ outliers	180081	1745 (3.70-3.50)
RNA backbone	3983	1014 (4.14-3.06)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	4% 11%66%18%.
1	CA	1522	3% 11%67%17%.
2	AB	256	11%56%23%.8%
2	CB	256	%10%57%22%.8%

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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	76	
22	AW	76	
22	CV	76	
22	CW	76	
23	AX	27	
23	CX	27	
24	AY	77	
24	CY	77	
25	AZ	406	
25	CZ	406	
26	B0	85	
26	D0	85	

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Mol	Chain	Length	Quality of chain
27	B1	98	
27	D1	98	
28	B2	72	
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	

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Mol	Chain	Length	Quality of chain
39	DD	276	
40	BE	206	
40	DE	206	
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	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	

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Mol	Chain	Length	Quality of chain
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
24	PSU	CY	55	-	-	X	-
60	ZN	D9	101	-	-	X	-
62	GDP	AZ	501	-	-	X	-
62	GDP	CZ	501	-	-	X	-

2 Entry composition

There are 63 unique types of molecules in this entry. The entry contains 306876 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 E-SITE TRNA PHE OR P-SITE TRNA PHE.

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

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	13	Total	C	N	O	P	0	0	0
			272	124	50	86	12			
23	CX	13	Total	C	N	O	P	0	0	0
			272	124	50	86	12			

- Molecule 24 is a RNA chain called A-SITE TRNA THR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	77	Total	C	N	O	P	0	0	0
			1650	741	292	541	76			
24	CY	77	Total	C	N	O	P	0	0	0
			1650	741	292	541	76			

- Molecule 25 is a protein called ELONGATION FACTOR TU-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	AZ	374	Total	C	N	O	S	0	0	0
			2900	1832	508	548	12			
25	CZ	374	Total	C	N	O	S	0	0	0
			2900	1832	508	548	12			

- 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			
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	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			
30	D4	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			

- 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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			
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	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
43	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BJ	131	Total	C	N	O	0	0	1
			651	390	131	130			
44	DJ	131	Total	C	N	O	0	0	1
			651	390	131	130			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BK	141	Total	C	N	O	0	0	1
			701	420	141	140			
45	DK	141	Total	C	N	O	0	0	1
			701	420	141	140			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

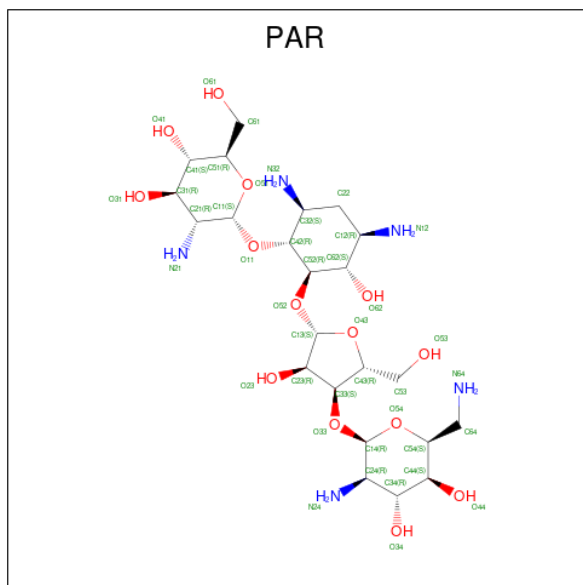
- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			
57	DY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			
58	DZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			

- Molecule 59 is PAROMOMYCIN (CCD ID: PAR) (formula: $C_{23}H_{45}N_5O_{14}$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
59	AA	1	Total	C	N	O		0	0
			42	23	5	14			
59	CA	1	Total	C	N	O		0	0
			42	23	5	14			

- Molecule 60 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

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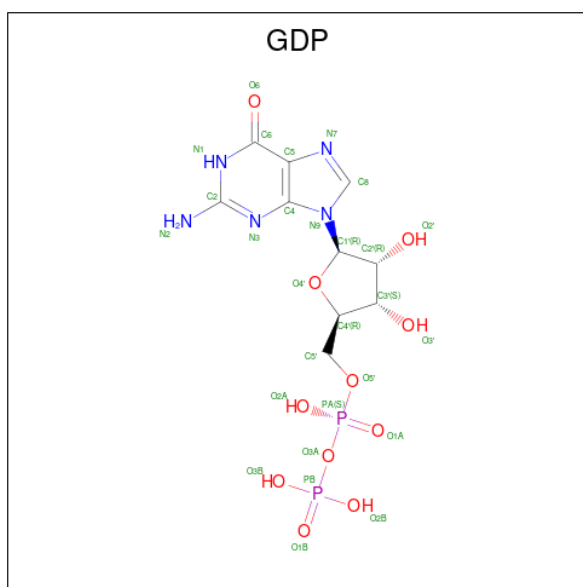
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	D4	1	Total	Zn	0	0
			1	1		
60	D9	1	Total	Zn	0	0
			1	1		

- Molecule 61 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

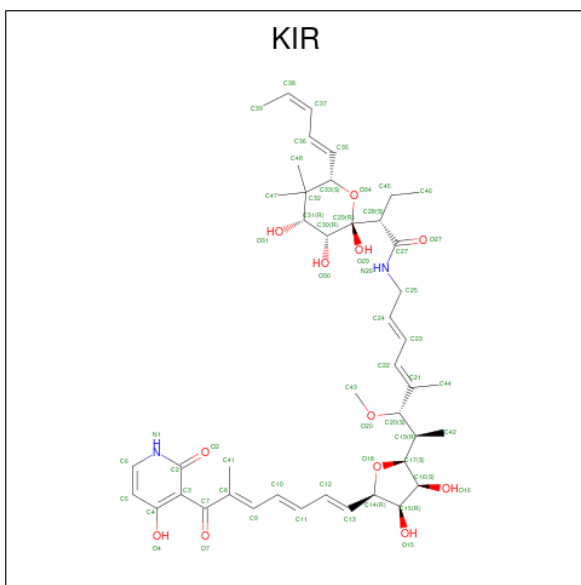
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AY	1	Total	Mg	0	0
			1	1		
61	CY	1	Total	Mg	0	0
			1	1		

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



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

- Molecule 63 is KIRROMYCIN (CCD ID: KIR) (formula: $C_{43}H_{60}N_2O_{12}$).

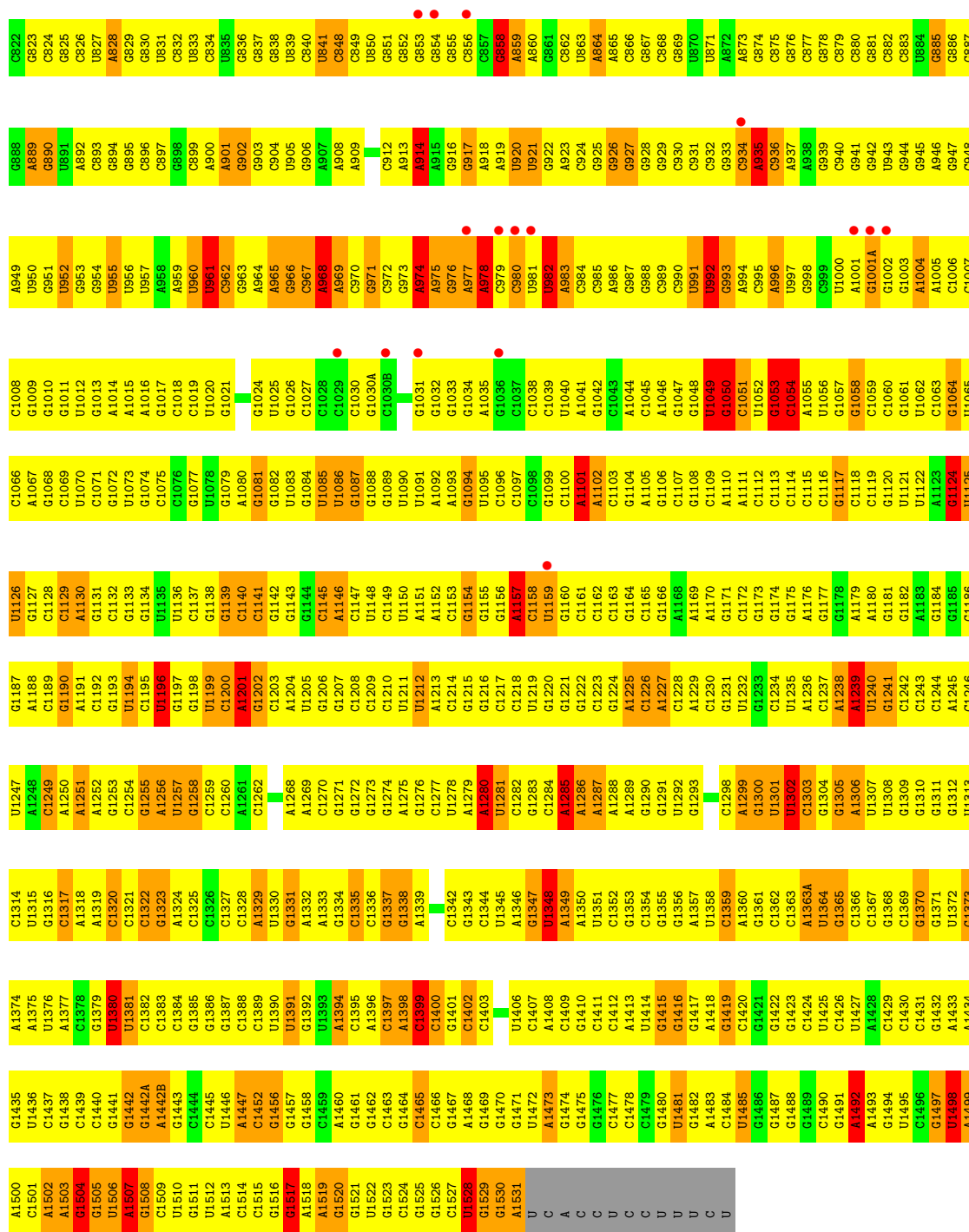


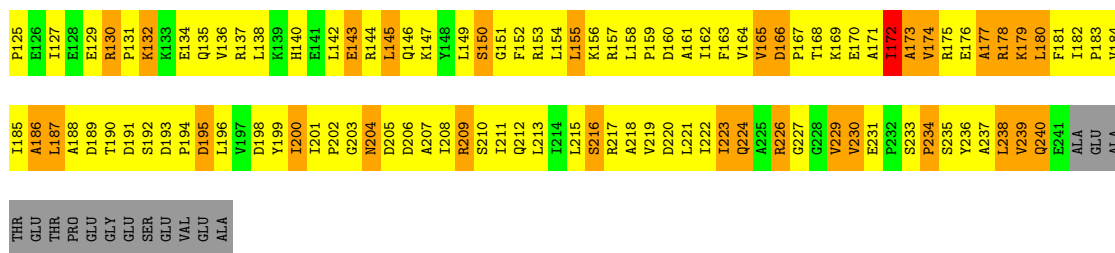
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
63	AZ	1	Total 57	C 43	N 2	O 12	0	0
63	CZ	1	Total 57	C 43	N 2	O 12	0	0

C1440	C1441	C1442	C1443	C1444	C1445	C1446	C1447	C1448	C1449	C1450	C1452	C1453	C1454	C1455	C1456	C1457	C1458	C1459	C1460	C1461	C1462	C1463	C1464	C1465	C1466	C1467	C1468	C1469	C1470	C1471	C1472	C1473	C1474	C1475	C1476	C1477	C1478	C1479	C1480	C1481	C1482	C1483	C1484	C1485	C1486	C1487	C1488	C1489	C1490	C1491	C1492	C1493	C1494	C1495	C1496	C1497	C1498	C1499	C1500	C1501	C1502	C1503	C1504	C1505
U1380	U1381	C1382	C1383	C1384	C1385	C1386	C1387	C1388	C1389	C1390	U1391	C1392	U1393	C1394	C1395	C1396	C1397	C1398	C1399	C1400	C1401	C1402	C1403	C1404	C1405	U1406	C1407	C1408	C1409	C1410	C1411	C1412	C1413	C1414	C1415	C1416	C1417	C1418	C1419	C1420	C1421	C1422	C1423	C1424	C1425	C1426	C1427	C1428	C1429	C1430	C1431	C1432	C1433	C1434	C1435	C1436	C1437	C1438	C1439	C1440				
C1320	C1321	C1322	C1323	C1324	C1325	C1326	C1327	C1328	C1329	C1330	C1331	C1332	C1333	C1334	C1335	C1336	C1337	C1338	C1339	C1340	C1341	C1342	C1343	C1344	C1345	C1346	C1347	C1348	C1349	C1350	C1351	C1352	C1353	C1354	C1355	C1356	C1357	C1358	C1359	C1360	C1361	C1362	C1363	C1364	C1365	C1366	C1367	C1368	C1369	C1370	C1371	C1372	C1373	C1374	C1375	C1376	C1377	C1378	C1379					
A1252	G1253	C1254	U1255	G1256	U1257	G1258	C1259	C1260	A1261	C1262	A1269	C1270	G1271	G1272	G1273	G1274	A1275	G1276	C1277	G1283	C1284	A1285	A1286	A1287	A1288	A1289	G1290	G1291	U1292	G1293	C1298	C1299	C1300	C1301	C1302	C1303	C1304	G1305	A1306	U1307	U1308	C1309	G1310	C1311	C1312	U1313	C1314	U1315	C1316	C1317	A1318	C1319	C1320											
C1192	G1193	U1194	C1195	U1196	G1197	G1198	U1199	C1200	A1201	C1202	C1203	A1204	U1205	G1206	C1207	C1208	C1209	C1210	U1211	U1212	C1218	U1219	C1220	G1221	C1222	C1223	C1224	C1225	C1226	A1227	C1228	A1229	C1230	G1231	U1232	C1233	C1234	U1235	A1236	C1237	A1238	A1239	C1240	G1241	C1242	C1243	C1244	C1245	C1246	U1247	A1248	C1249	A1250	C1251										
G1131	C1132	G1133	C1134	U1135	U1136	C1137	G1138	C1139	C1140	C1141	G1142	U1143	U1144	C1145	C1146	U1147	C1148	C1149	U1150	A1151	C1152	C1153	G1154	C1155	G1156	A1157	C1158	U1159	G1160	C1161	C1162	C1163	C1164	C1165	C1166	A1168	A1169	C1170	C1171	C1172	C1173	C1174	C1175	C1176	C1177	A1178	A1179	C1180	C1181	A1182	A1183	C1184	G1185	C1186	C1187	A1188	C1189	A1190	C1191					
C1071	G1072	U1073	C1074	C1075	C1076	G1077	U1078	C1079	A1080	C1081	G1082	U1083	G1084	U1085	U1086	G1087	G1088	C1089	U1090	U1091	A1092	C1093	U1094	C1095	C1096	C1097	C1098	C1099	C1100	A1101	A1102	C1103	G1104	C1105	G1106	C1107	G1108	C1109	A1110	C1111	C1112	C1113	C1114	C1115	C1116	C1117	C1118	C1119	G1120	U1121	U1122	A1123	G1124	U1125	U1126	G1127	C1128	C1129	A1130					
G1011	U1012	A1013	G1014	C1015	A1016	G1017	C1018	C1019	U1020	G1021	G1024	U1025	G1026	C1027	C1028	C1030	G1030A	G1031	G1032	G1033	C1034	A1035	G1036	C1037	C1038	C1039	U1040	U1041	C1042	C1043	A1044	C1045	A1046	G1047	G1048	U1049	G1050	C1051	U1052	C1053	C1054	A1055	U1056	G1057	C1058	C1059	U1060	G1061	U1062	C1063	C1064	U1065	C1066	A1067	C1068	U1069	U1070							
G951	U952	G953	C954	C955	U956	U957	U960	U961	C962	G963	A964	A965	G966	C967	C968	A969	C970	G971	C972	G973	A974	C975	G976	A977	A978	C979	C980	U981	U982	A983	C984	C985	A986	G987	G988	C989	C990	U991	U992	G993	C994	C995	A996	U997	G998	C999	U1000	A1001	G1001A	G1002	C1003	A1004	C1005	C1006	C1007	C1008	G1009	G1010						
A889	C890	U891	C892	C893	C894	C895	C896	C897	U898	C899	A900	G902	C903	C904	U905	A908	A909	C912	A913	C914	A914	A915	C916	C917	A918	C919	C920	U921	C922	A923	C924	C925	C926	C927	C928	C929	C930	C931	C932	C933	C934	A935	C936	A937	C938	C939	C940	C941	C942	U943	C944	C945	C946	C947	C948	U950								
C823	C824	C825	C826	U827	A828	C829	C830	U831	C832	U833	C834	U835	C836	C837	C838	U839	C840	U841	C843	C849	U850	C851	C852	C853	C854	C855	C856	C857	C858	A859	U860	C861	C862	U863	A864	A865	C866	C867	C868	C869	C870	C871	C872	C873	C874	C875	C876	C877	C878	C879	C880	C881	C882	C883	C884	C885	C886	C887	C888					
A702	G703	U704	U705	C706	C707	C708	C709	G710	C711	A712	G713	G714	A715	C716	C719	C720	G721	A722	U723	G724	C725	C726	C727	A728	C729	C730	G731	C732	A733	C734	C735	C736	A737	C738	C739	U740	G741	C742	U743	C744	C745	A746	C747	C748	C749	G750	U751	C752	A753	C754	C755	C756	C757	C758	A759	C760	C761	C762						
U641	A642	C643	U644	C645	C646	A648	C649	C650	C651	U652	A653	G654	A655	C656	C657	C658	U659	G660	C661	C662	A663	C664	A665	C666	C667	C668	U669	C670	C671	U672	C673	C674	A675	C676	U677	C678	C679	C680	C681	C682	C683	A684	C685	U686	A687	C688	C689	C690	G691	U692	C693	A694	C695	A696	U697	C698	C699	C700	C701					

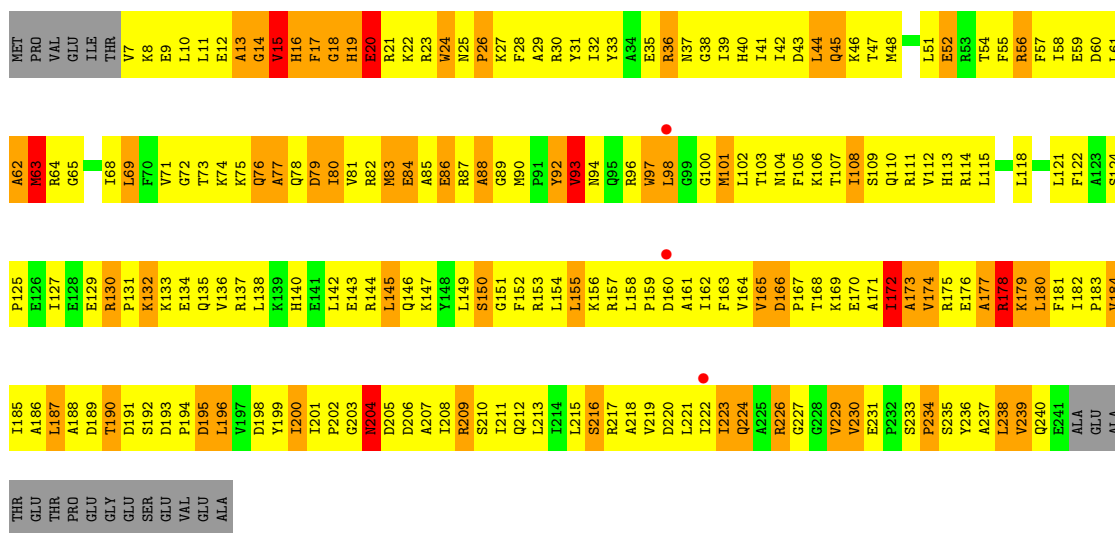
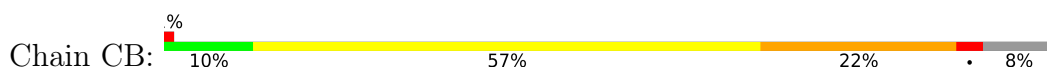
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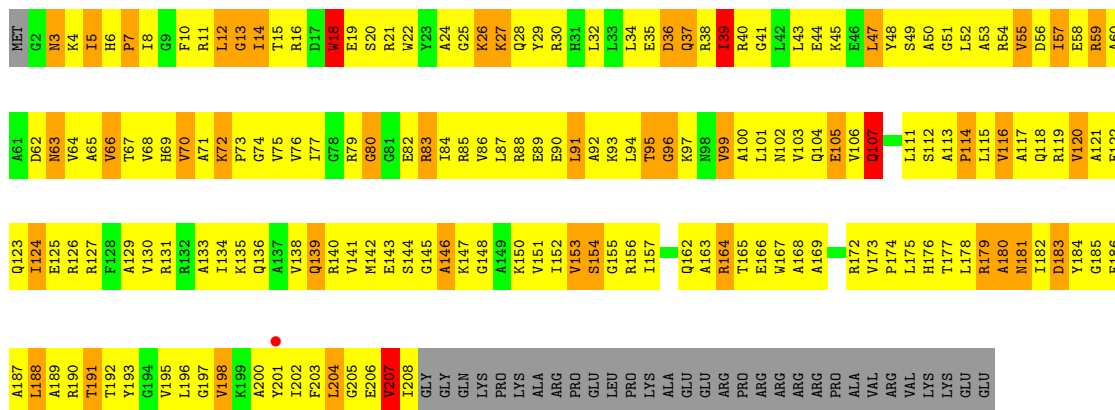
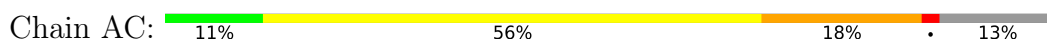




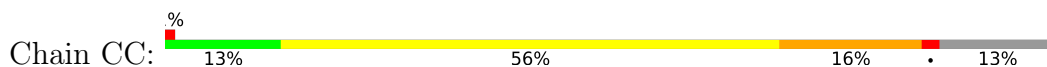
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

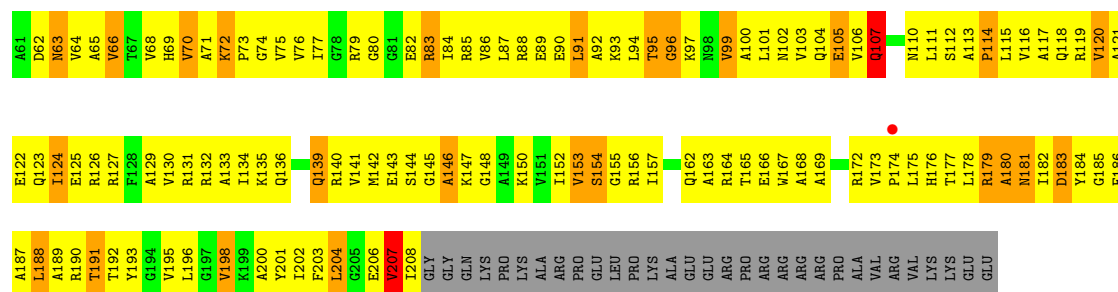


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

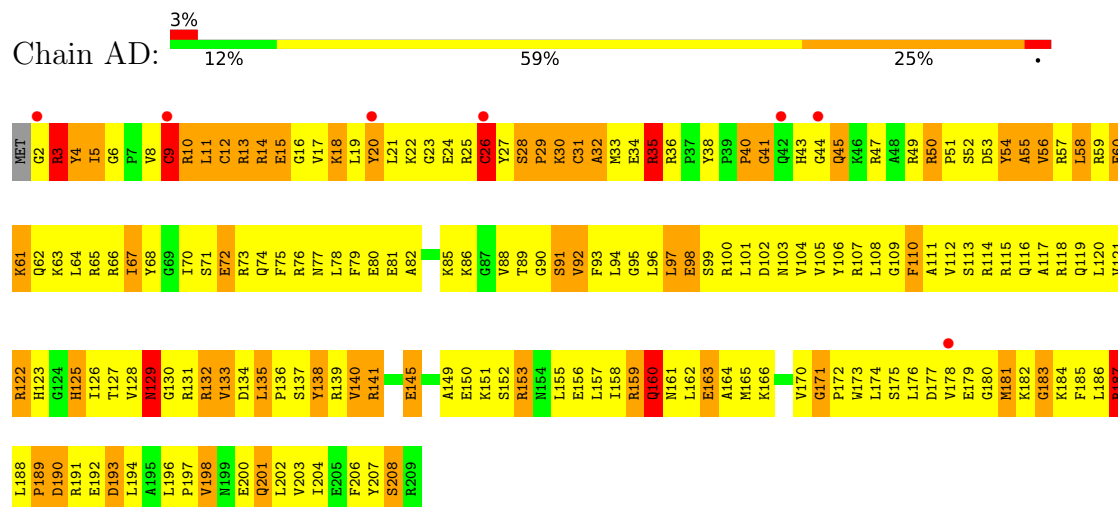


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

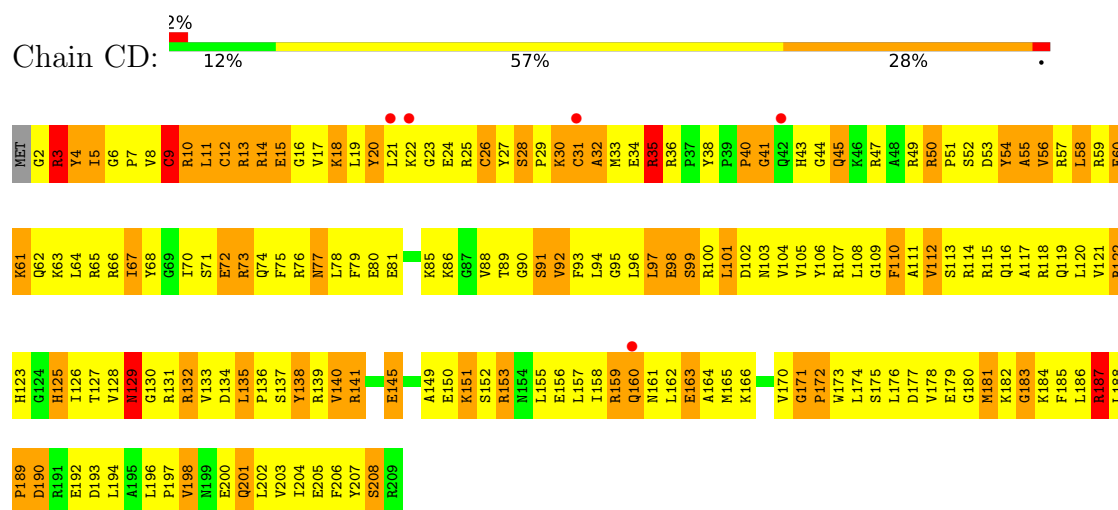




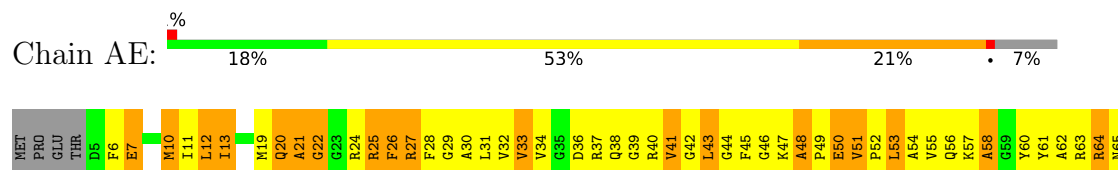
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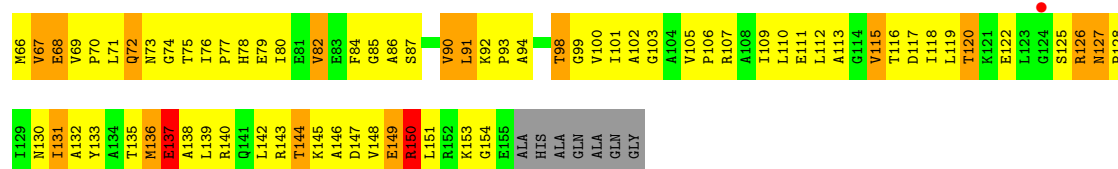


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

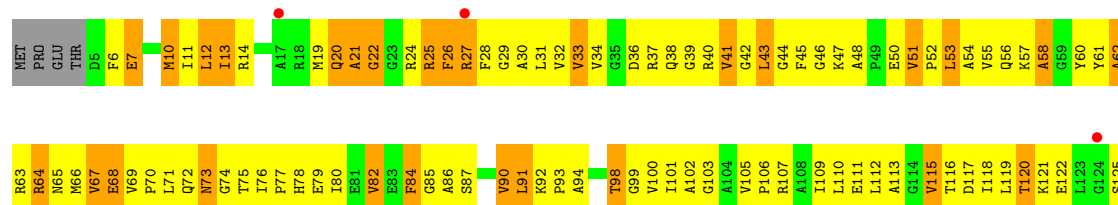
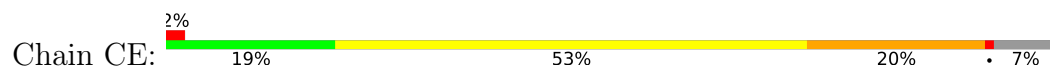


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

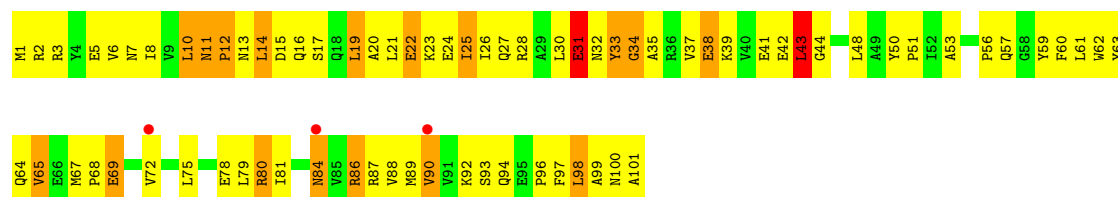




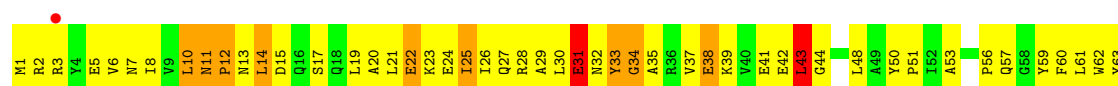
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



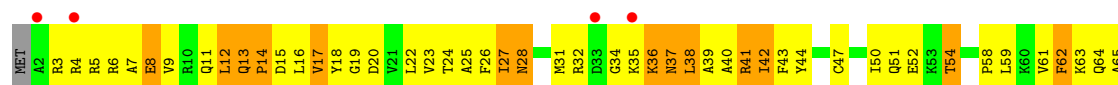
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

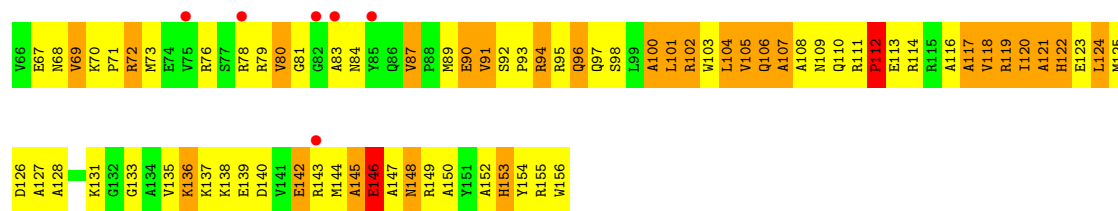


• Molecule 6: 30S RIBOSOMAL PROTEIN S6

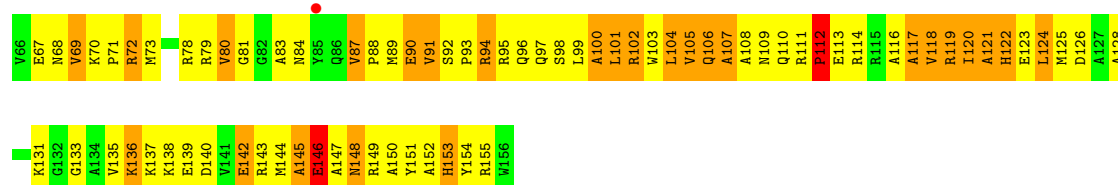
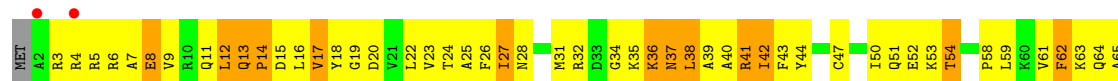


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

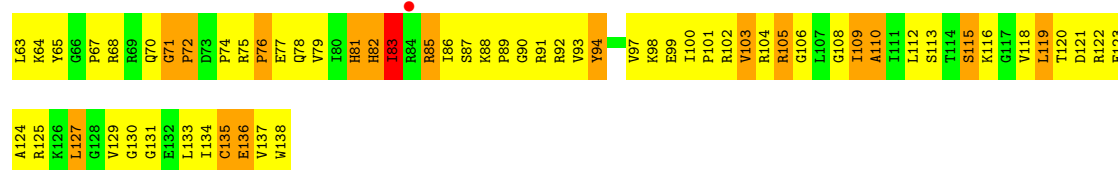
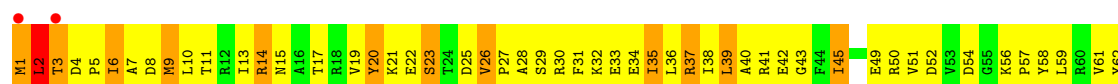




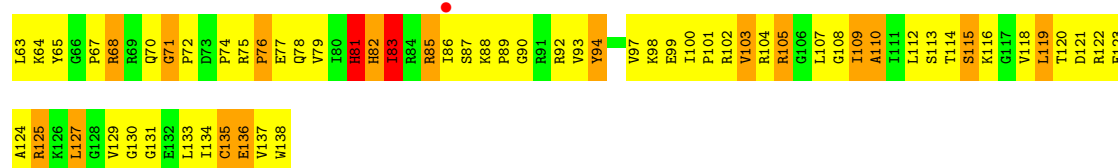
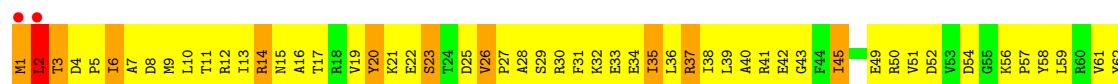
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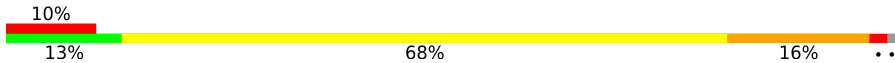
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

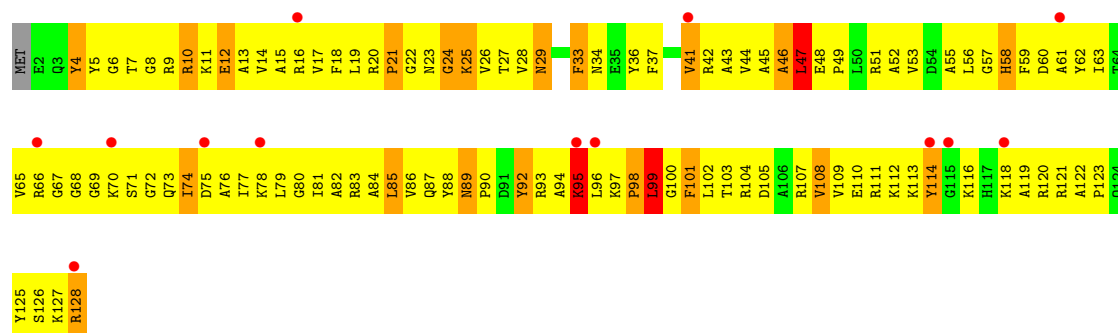


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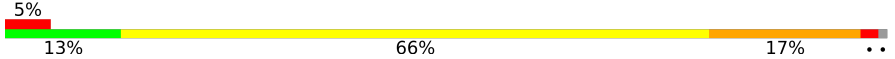


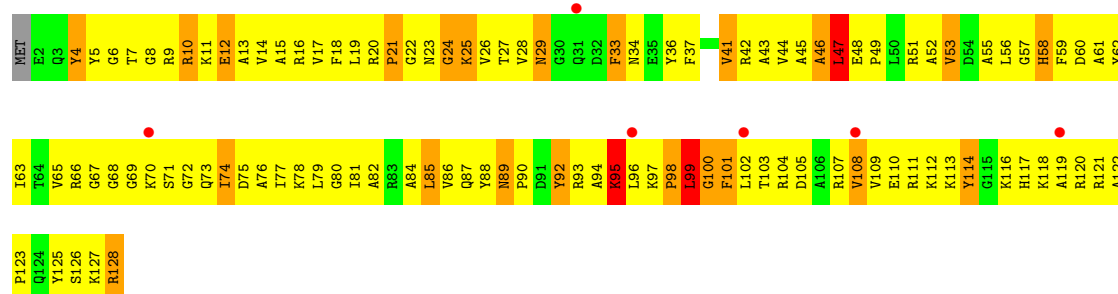
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AI: 

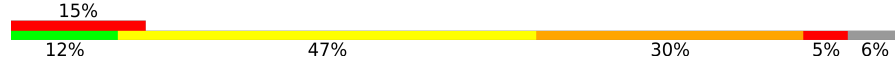


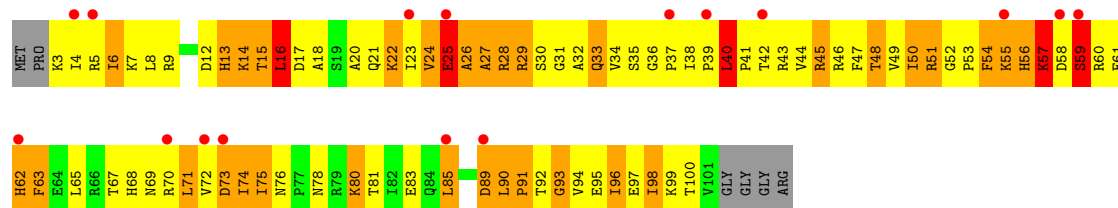
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain CI: 



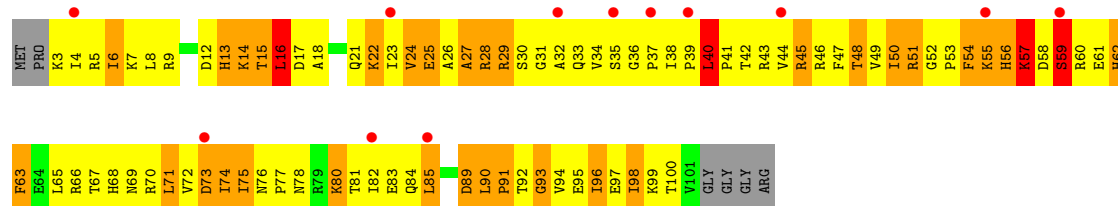
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AJ: 

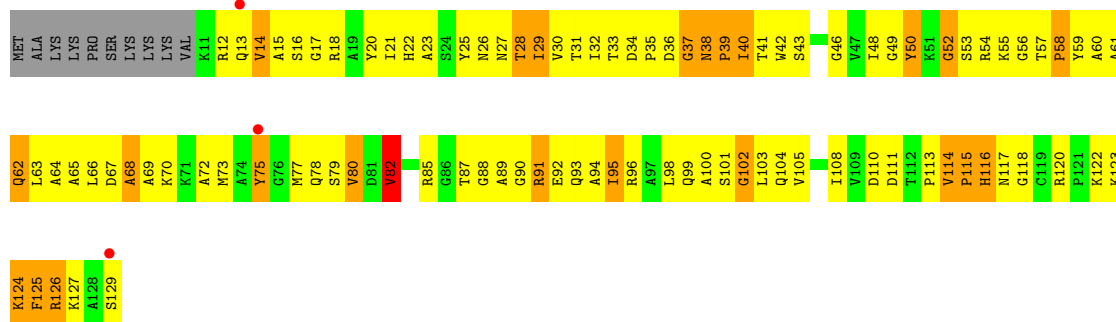
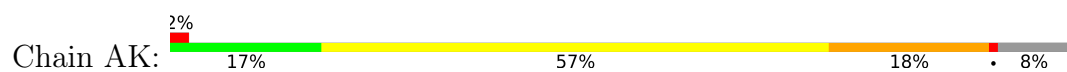


• Molecule 10: 30S RIBOSOMAL PROTEIN S10

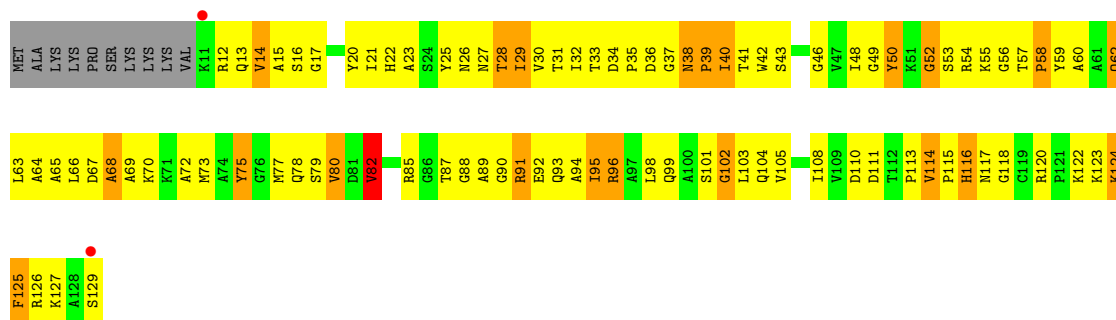
Chain CJ: 



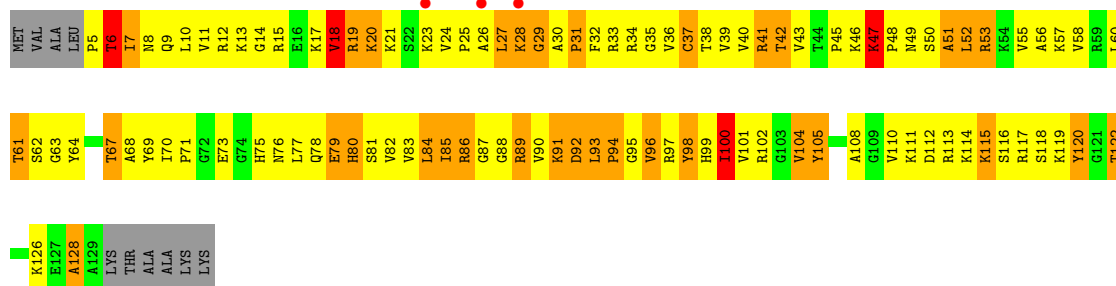
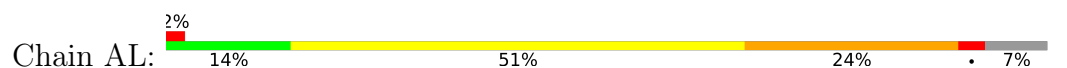
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



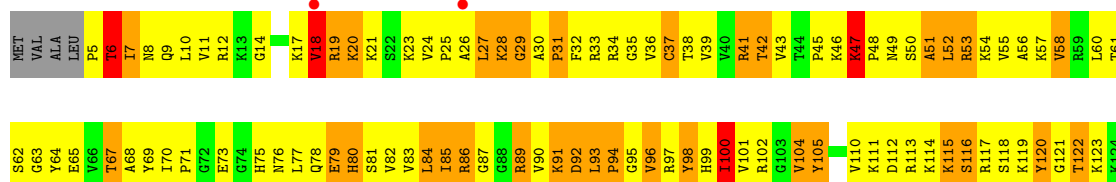
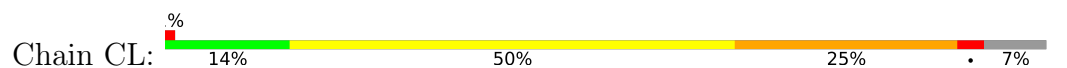
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



• Molecule 12: 30S RIBOSOMAL PROTEIN S12

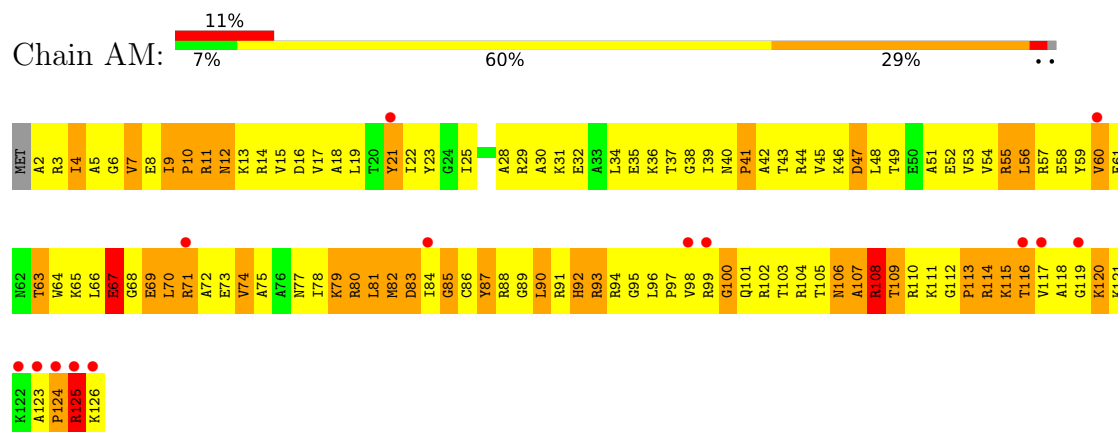


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

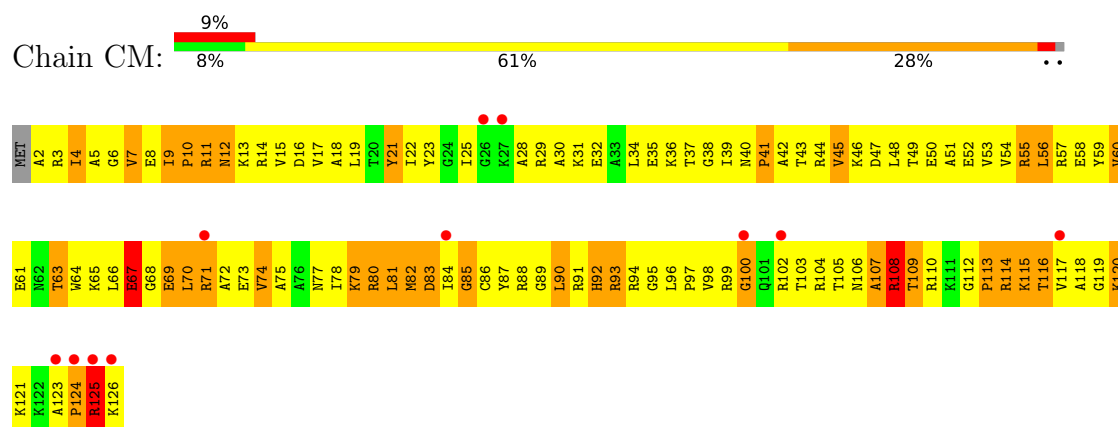




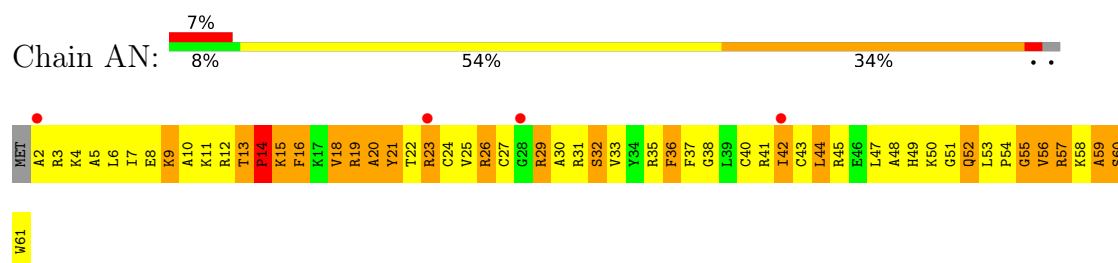
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



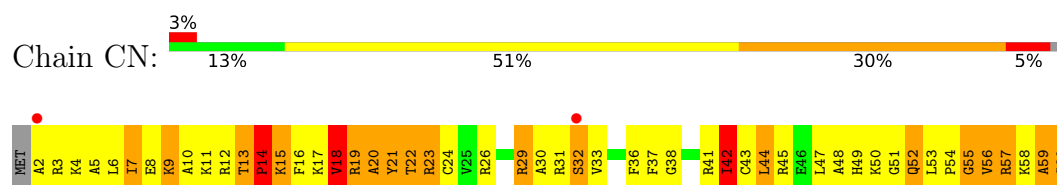
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



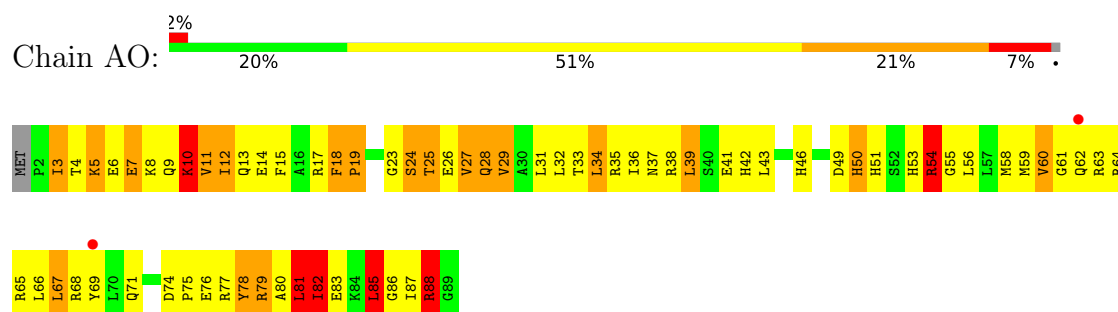
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



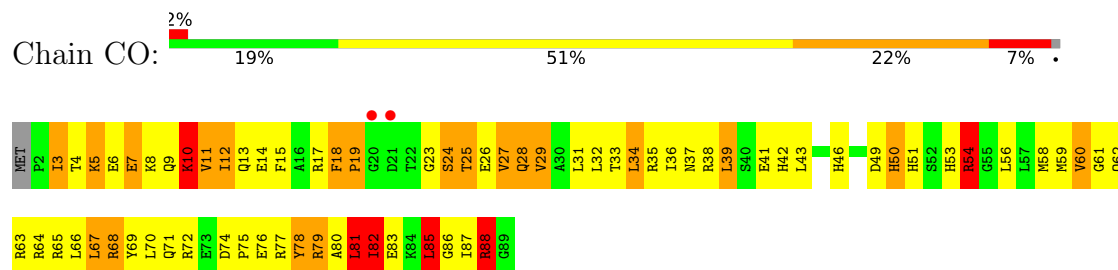
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



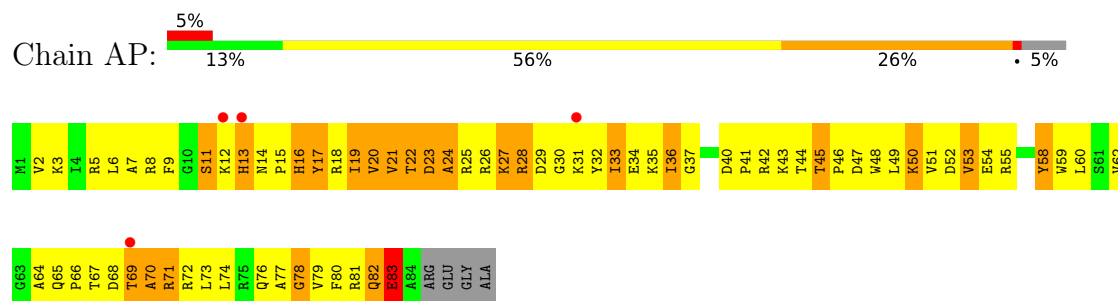
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



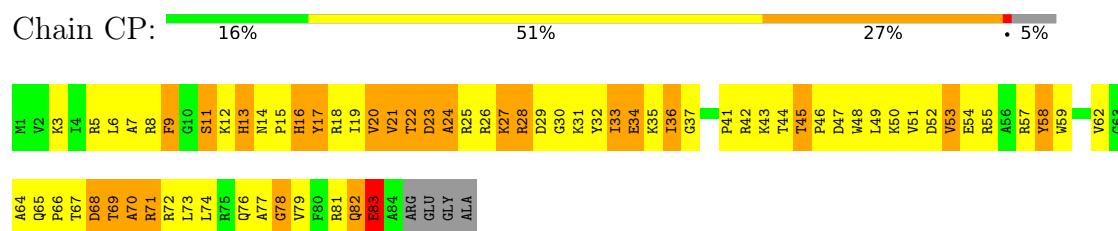
- Molecule 15: 30S RIBOSOMAL PROTEIN S15



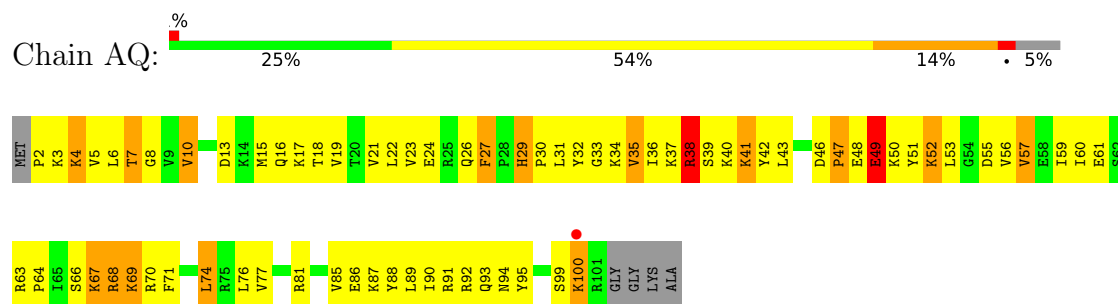
- Molecule 16: 30S RIBOSOMAL PROTEIN S16



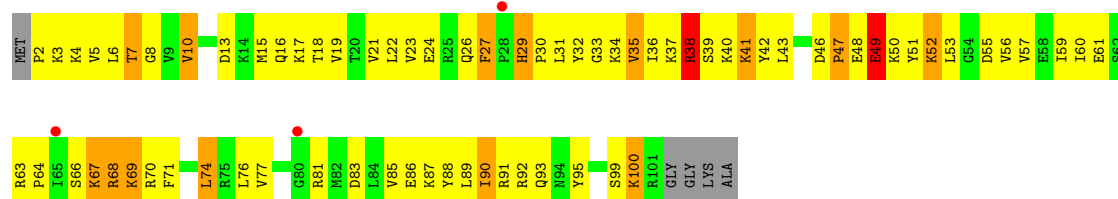
- Molecule 16: 30S RIBOSOMAL PROTEIN S16



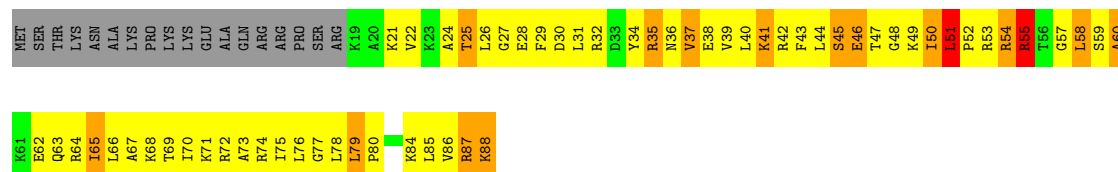
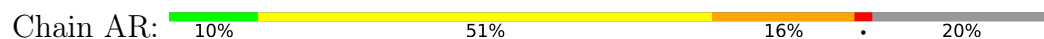
- Molecule 17: 30S RIBOSOMAL PROTEIN S17



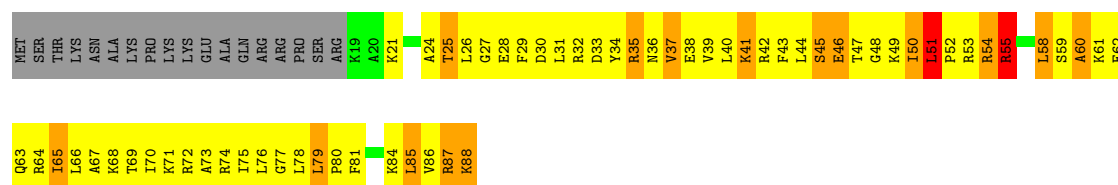
- Molecule 17: 30S RIBOSOMAL PROTEIN S17



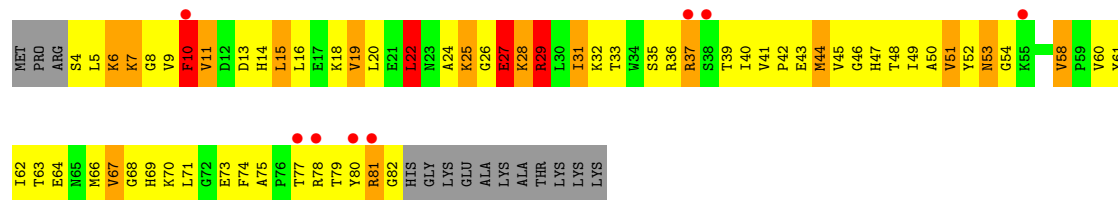
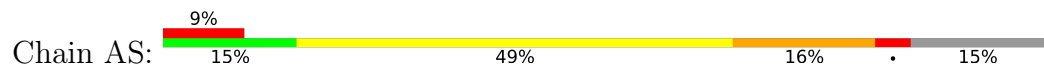
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



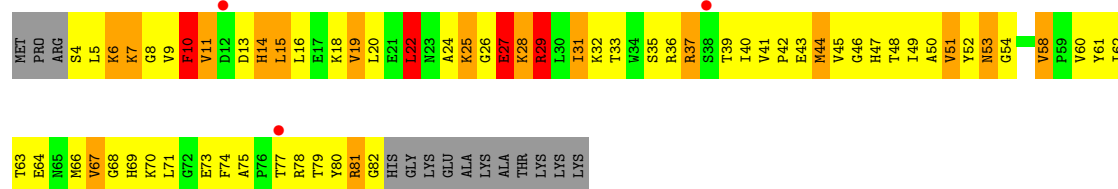
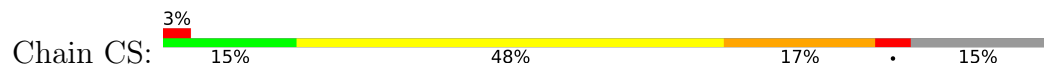
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



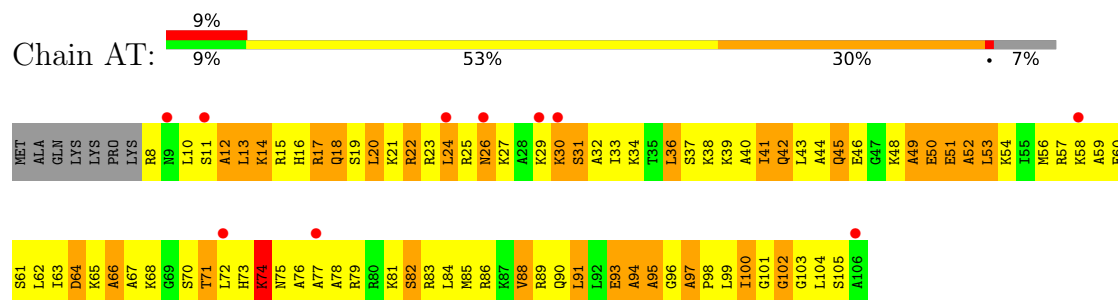
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



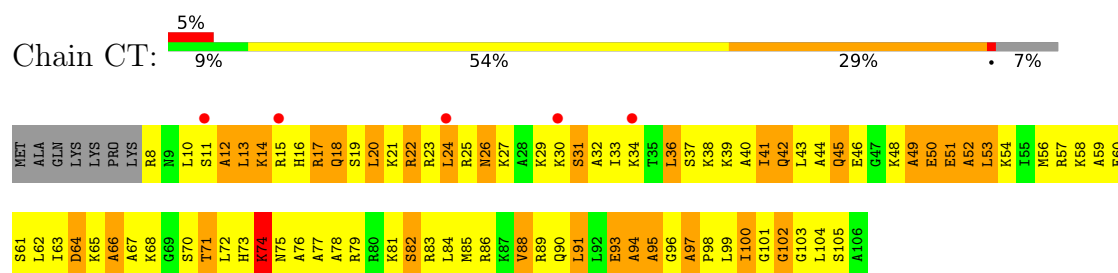
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



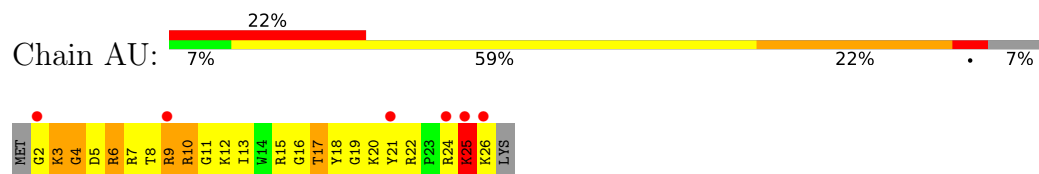
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



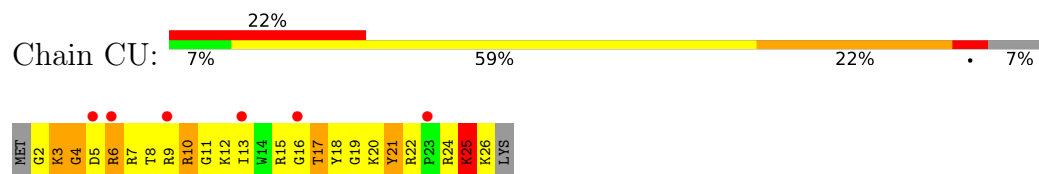
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



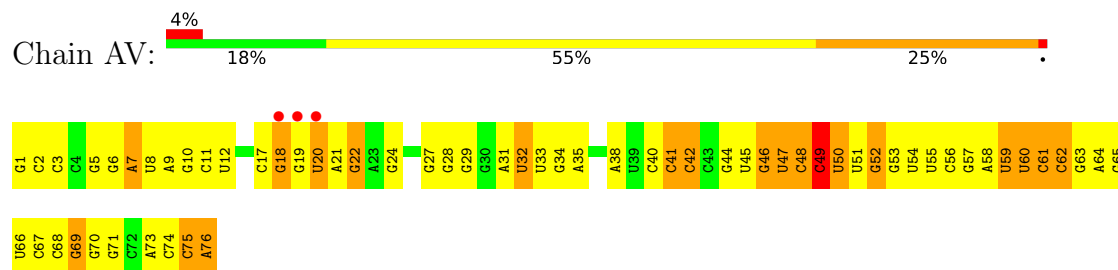
• Molecule 21: 30S RIBOSOMAL PROTEIN THX



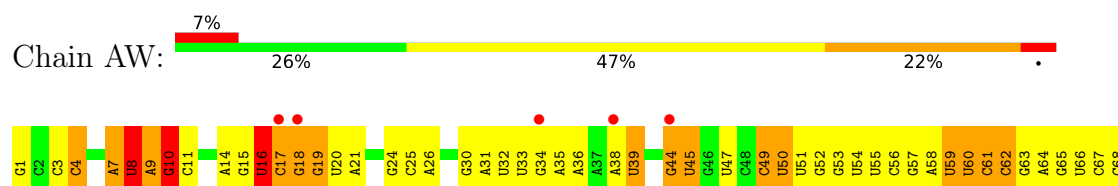
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

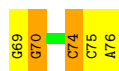


• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

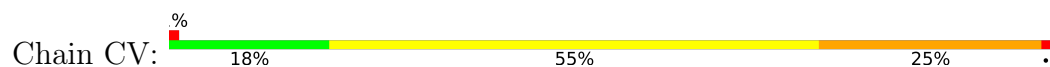


• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE

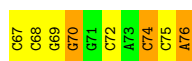




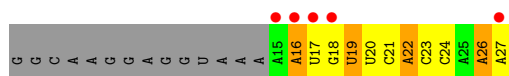
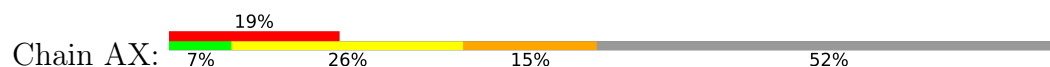
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



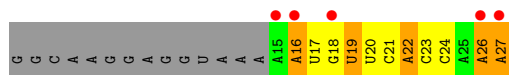
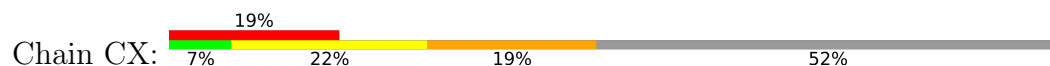
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE



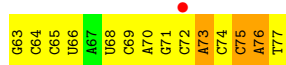
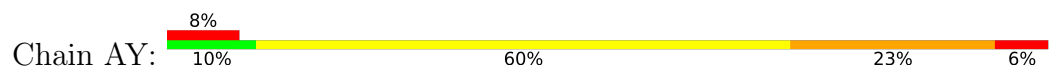
- Molecule 23: MRNA



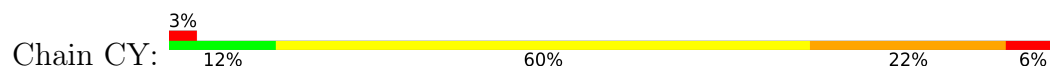
- Molecule 23: MRNA

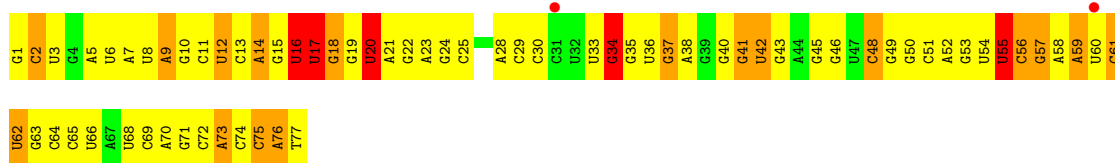


- Molecule 24: A-SITE TRNA THR

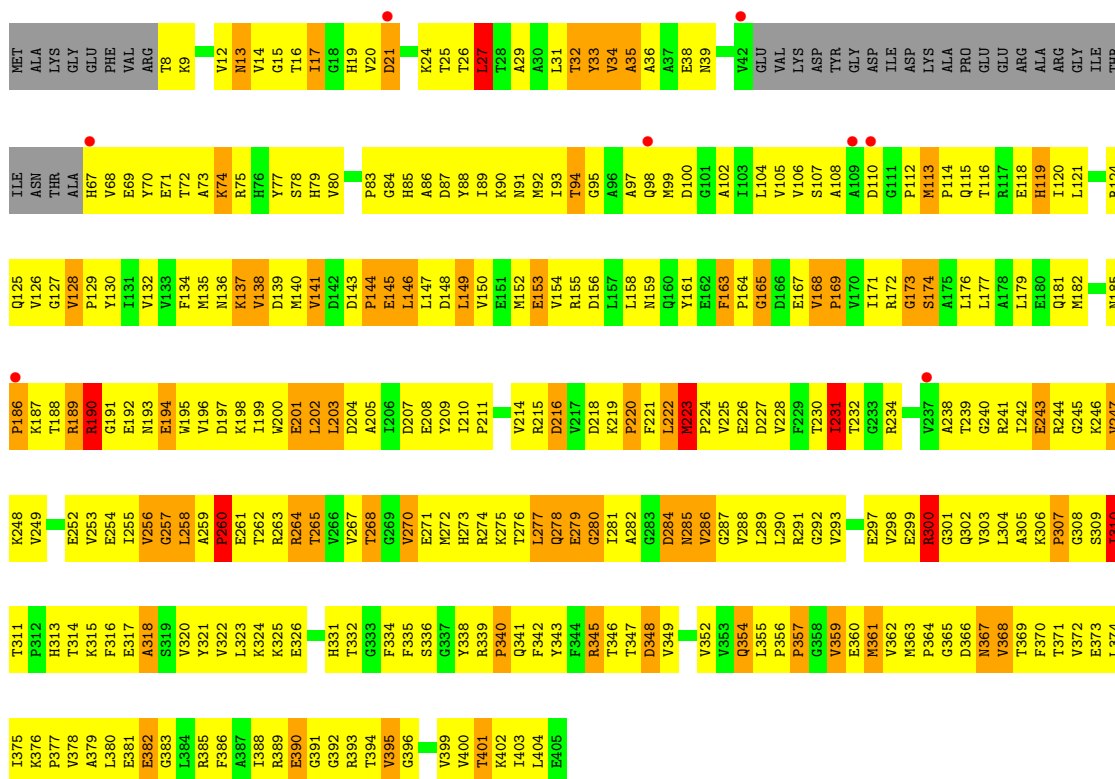
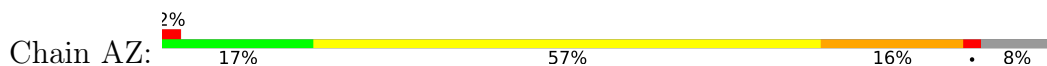


- Molecule 24: A-SITE TRNA THR

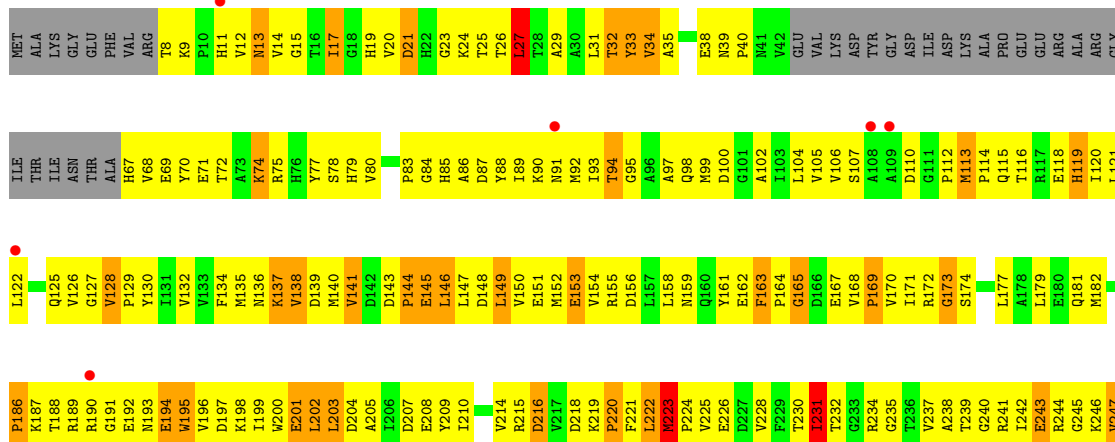


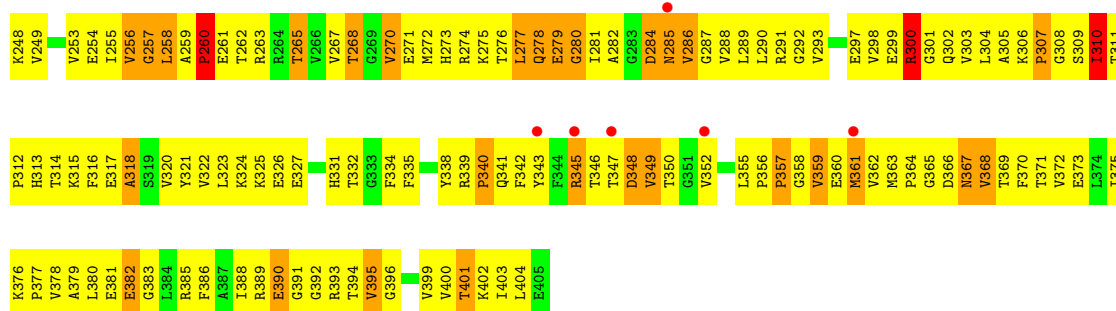


• Molecule 25: ELONGATION FACTOR TU-A

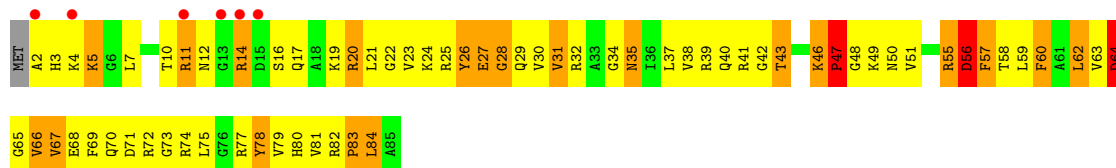
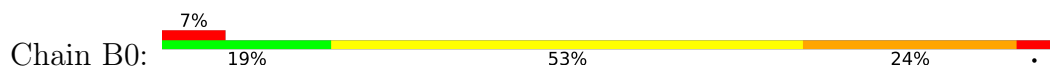


• Molecule 25: ELONGATION FACTOR TU-A

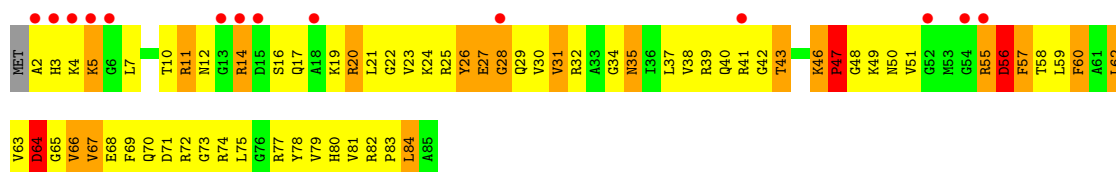
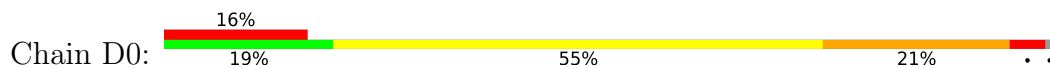




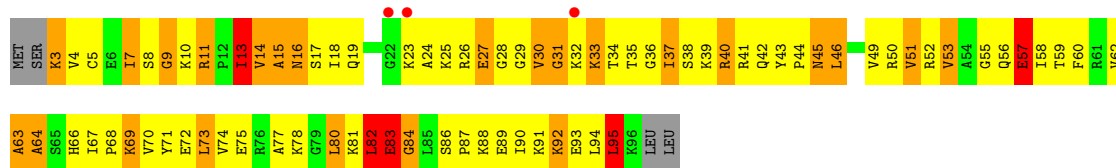
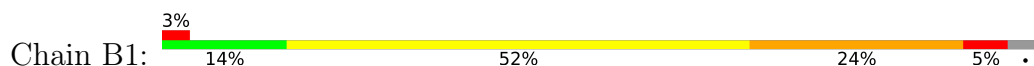
• Molecule 26: 50S RIBOSOMAL PROTEIN L27



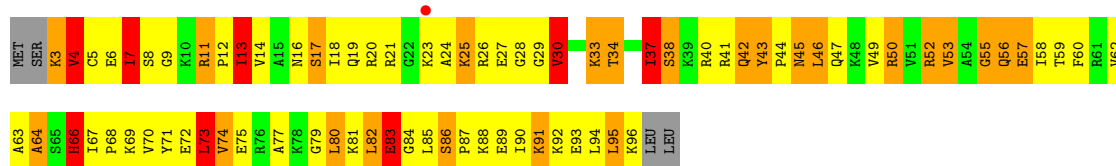
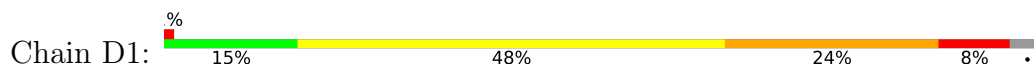
• Molecule 26: 50S RIBOSOMAL PROTEIN L27



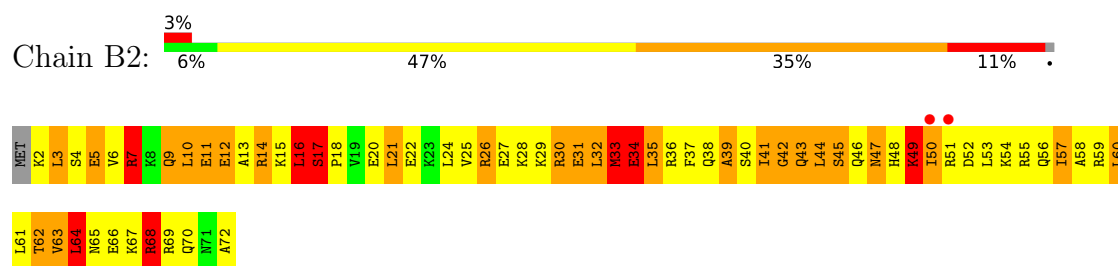
• Molecule 27: 50S RIBOSOMAL PROTEIN L28



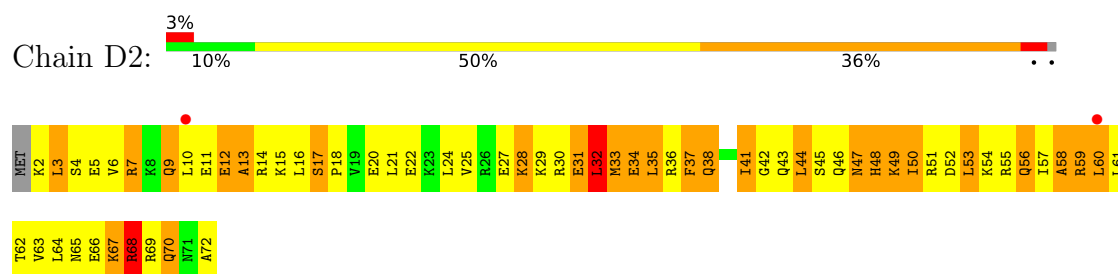
• Molecule 27: 50S RIBOSOMAL PROTEIN L28



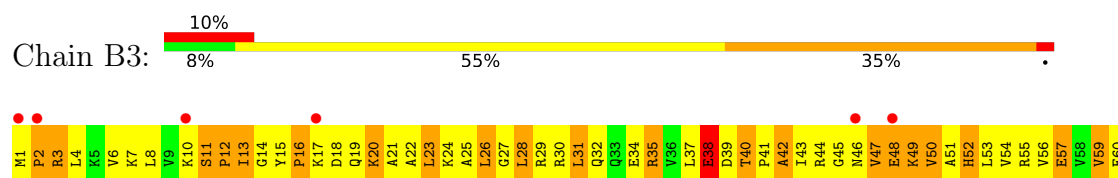
• Molecule 28: 50S RIBOSOMAL PROTEIN L29



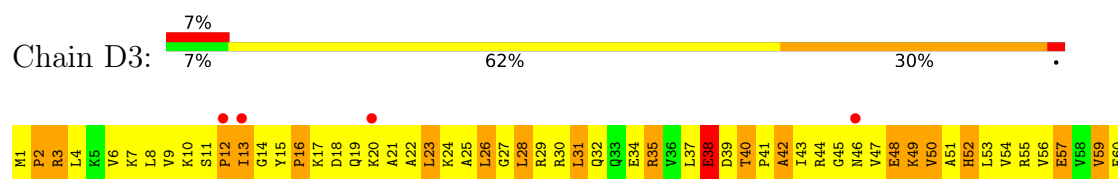
• Molecule 28: 50S RIBOSOMAL PROTEIN L29



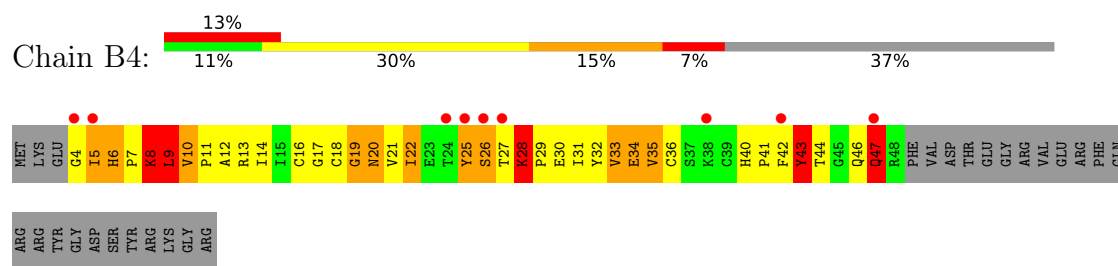
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



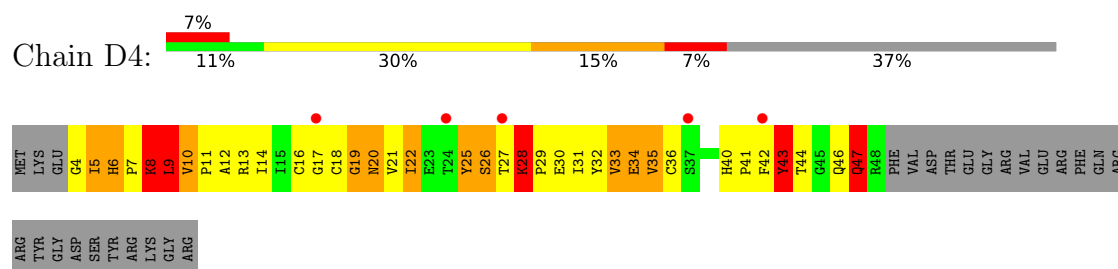
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



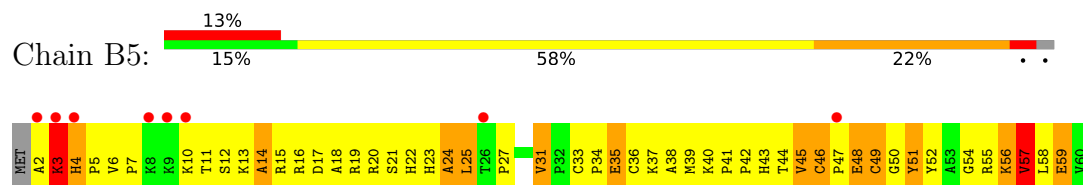
• Molecule 30: 50S RIBOSOMAL PROTEIN L31



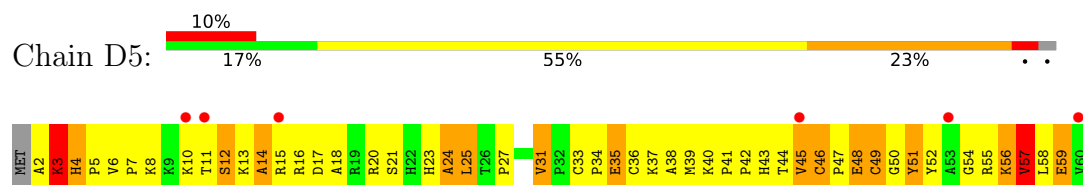
• Molecule 30: 50S RIBOSOMAL PROTEIN L31



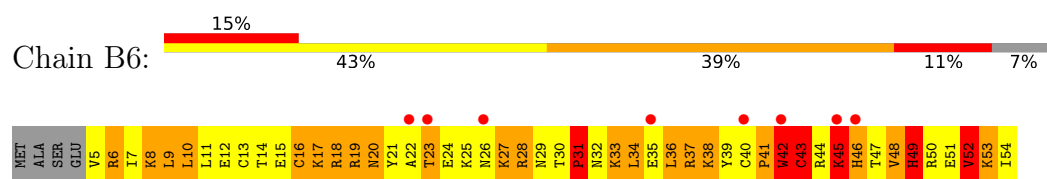
● Molecule 31: 50S RIBOSOMAL PROTEIN L32



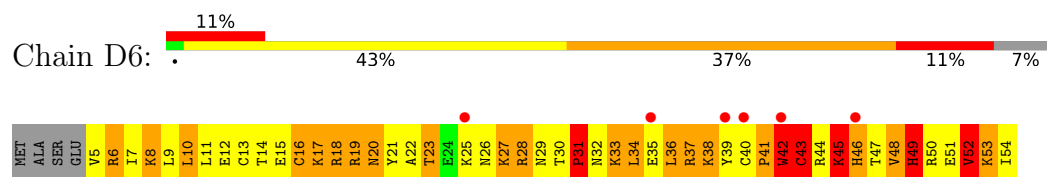
● Molecule 31: 50S RIBOSOMAL PROTEIN L32



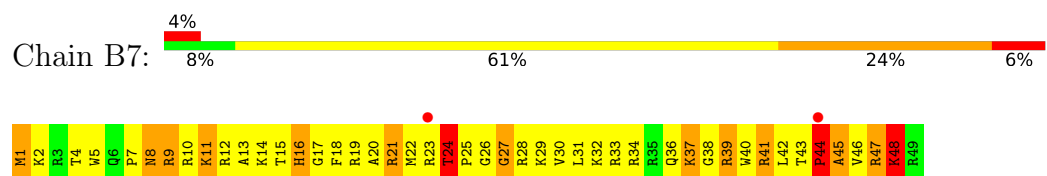
● Molecule 32: 50S RIBOSOMAL PROTEIN L33



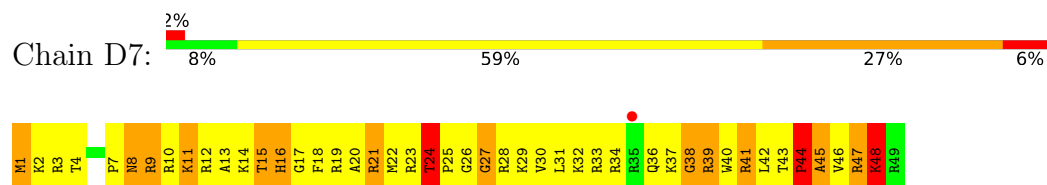
● Molecule 32: 50S RIBOSOMAL PROTEIN L33



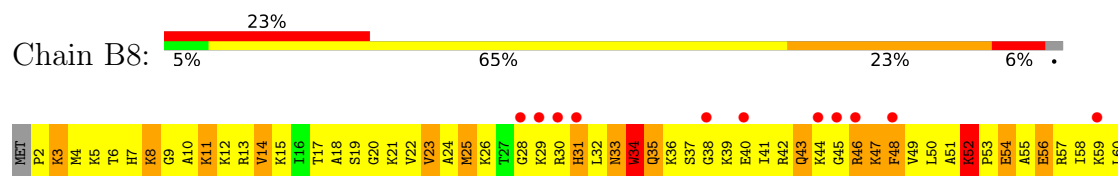
● Molecule 33: 50S RIBOSOMAL PROTEIN L34



● Molecule 33: 50S RIBOSOMAL PROTEIN L34

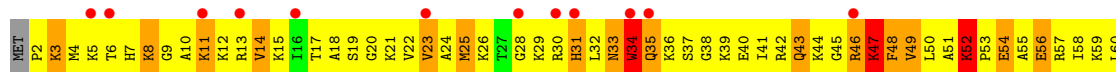
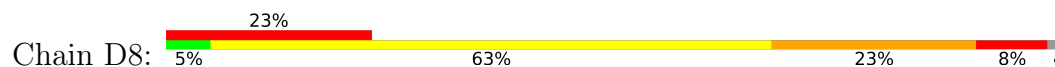


● Molecule 34: 50S RIBOSOMAL PROTEIN L35

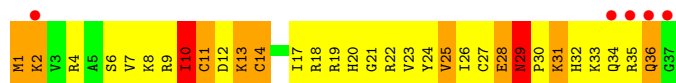
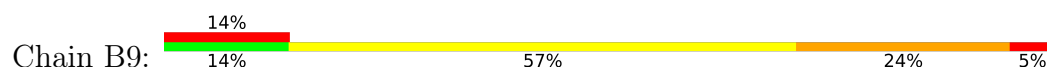




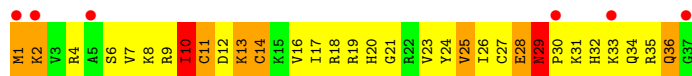
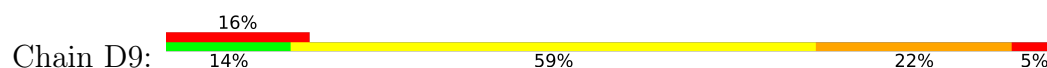
• Molecule 34: 50S RIBOSOMAL PROTEIN L35



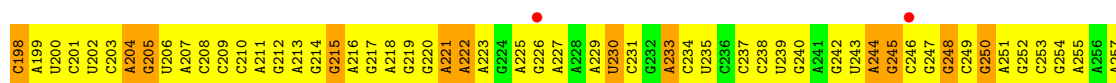
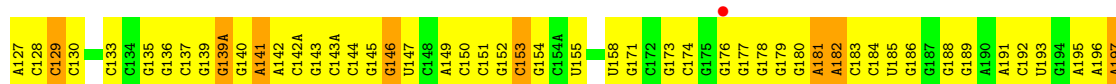
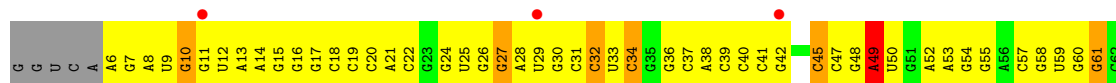
• Molecule 35: 50S RIBOSOMAL PROTEIN L36



• Molecule 35: 50S RIBOSOMAL PROTEIN L36



• Molecule 36: 23S RIBOSOMAL RNA



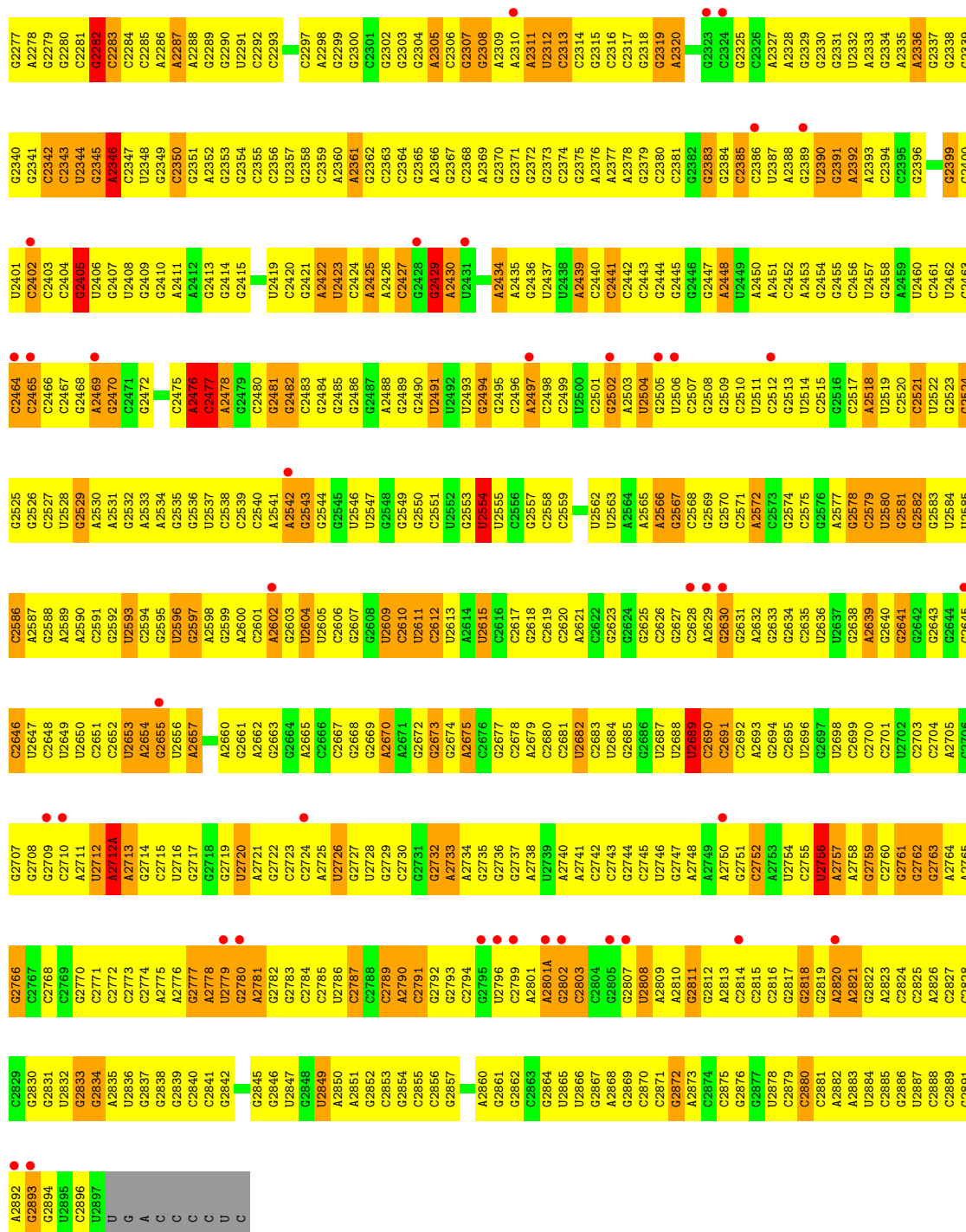
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U999	G940	A941	G942	U943	C1005	C1006	C1007	U1008	A1009	A1010	G1011	C1012	C1013	U1014	G1017	G954	C955	U956	A1058	G1087	A1088	G1089	U1090	G1091	U1026	C964	C965	A1028	U1029	G1030	C967	G968	U969	U1033	G1034	C971	U1035	U1036	G1037	C1038	G1039	A981	C982	A983	U1048	C1049	C986	U1051	C987	A988	C1053	A1054	C991	C992	G993	C994	C1123	G1124	A996	U1061	C1062																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
G874	G875	G876	U877	A878	G879	G880	G881	G882	G883	C884	C885	C886	A887	C888	C889	A890	C892	C893	C894	U895	A896	C897	C898	A899	C903	C904	U905	U906	C907	C908	U909	U910	A911	C912	U913	C914	C915	U916	A917	A918	G919	C920	U921	U922	C923	C924	C925	A926	C927			C934	C935	C936	U937	U938	C939	C940	C941	C942	C943	C944	C945	C946	C947	C948	C949	C950																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
C812	U813	C814	C815	C816	C817	G818	A819	A820	A821	U822	G823		U826	U827	U828	A829	G830	G831	G832	U833	U834	C835	C836	C837	C838	U839	C840	A841	C842	G843	C844	C845	U847	G848	A849	C850	U851	G852	G853	C854	G855	C856	U857	U858	G859	U860	A861	C862	A863	U864	C865	A866			C869	A870	C880	U881	C882	C883	C884	C885	C886	C887	C888	C889	C890	C891	C892	C893	C894	C895	C896	C897	C898	C899	C900																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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C595	C596	U597	C598	G599	G600	C601	C602	A603	G604	C605	U606	U607	A608	A609	G610	C611	C612	G613	U614	G615	G616	G617	G618	G619	G620	G621	G622	G623	G624	G625	U626	G627	C628	U629	G630	A631	G632	A633	C634	C635	C636	A637	G638	U639	C640	C641	G642	A643	A644	C645	C646	U647	G648	G649	C650	C651	C652	C653	C654	C655	C656	C657	C658	C659	C660	C661	C662	C663	C664	C665	C666	C667	C668	C669	C670	C671	C672	C673	C674	C675	C676	C677	C678	C679	C680	C681	C682	C683	C684	C685	C686	C687	C688	C689	C690	C691	C692	C693	C694	C695	C696	C697	C698	C699	C700																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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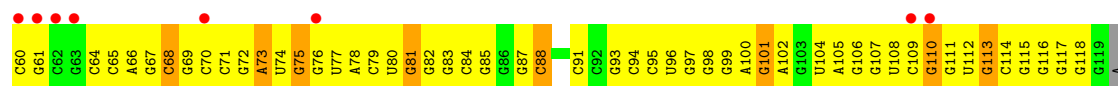
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G1903	C1832	U1692	A1632	A1567	C1502	A1378	A1378	C1319	A1253	G1193	G1131
	U1833	C1693	G1633	C1568	U1503	G1440	A1379	G1320	A1254	A1194	A1132
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	U1707		G1647	C1584	U1516	U1453	A1394	G1333	A1268	C1207	C1146
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	G1714		A1655		G1526	C1463	C1402	U1341	A1276	A1155	
	U1717		G1656		G1527	C1464	C1403	A1342	G1277	A1156	
	G1718		C1657	A1597	A1528	G1465	G1404	G1343	A1278	C1157	
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			G1677	A1618	C1552	G1487	G1424	C1363	A1301	A1237	
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			U1679	G1620	A1554	U1489	G1426	A1365	G1303	G1239	
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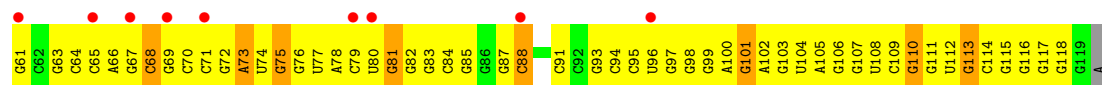
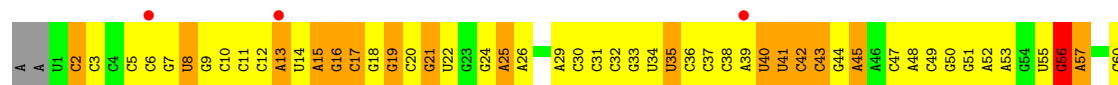
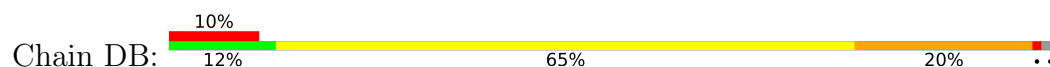


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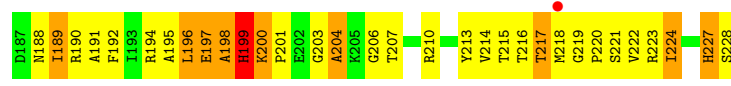
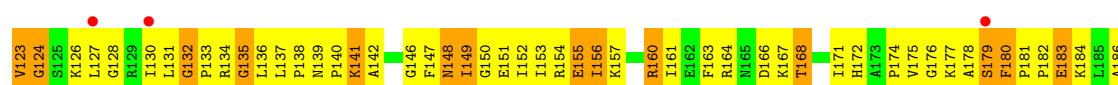
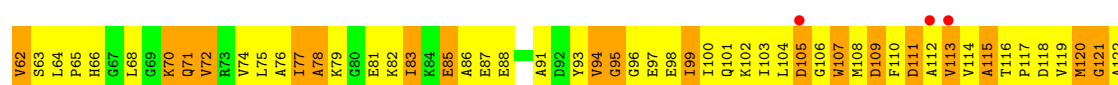




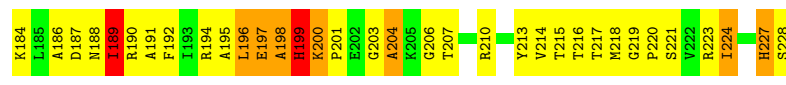
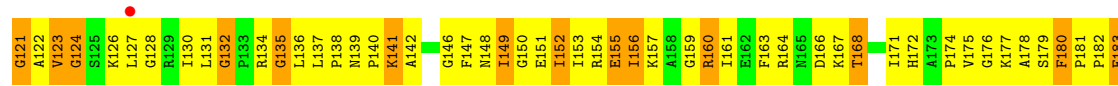
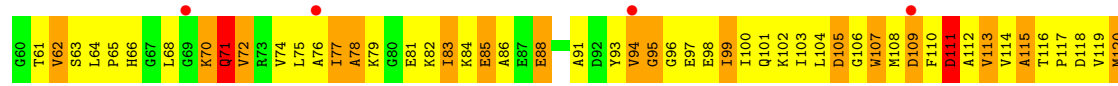
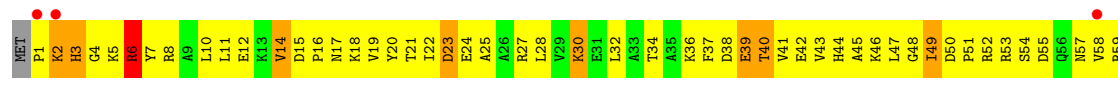
• Molecule 37: 5S RIBOSOMAL RNA



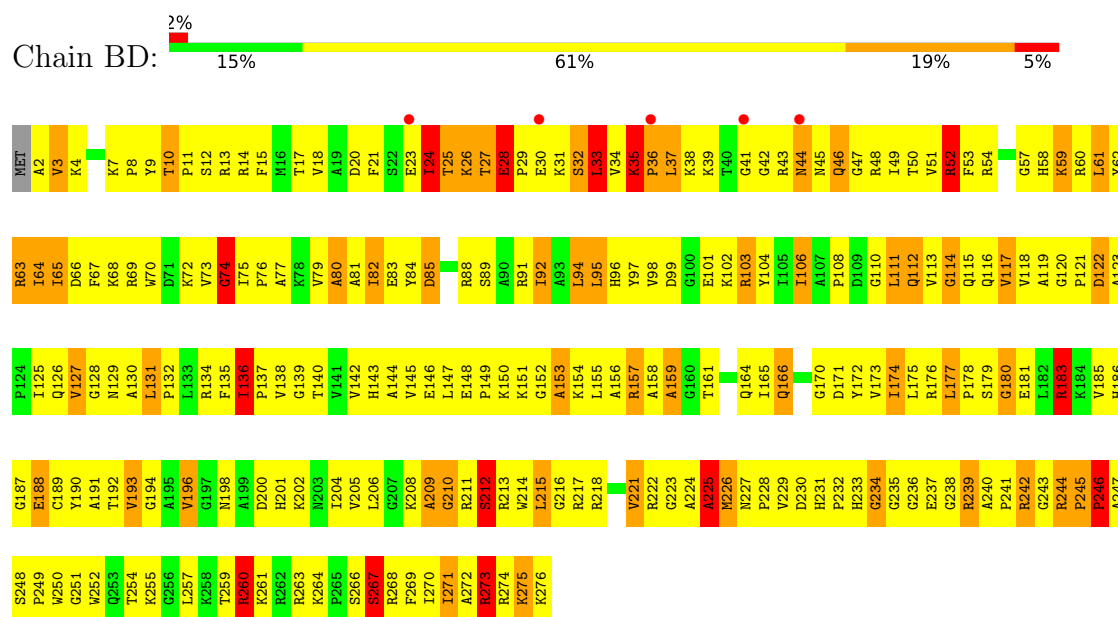
• Molecule 38: 50S RIBOSOMAL PROTEIN L1



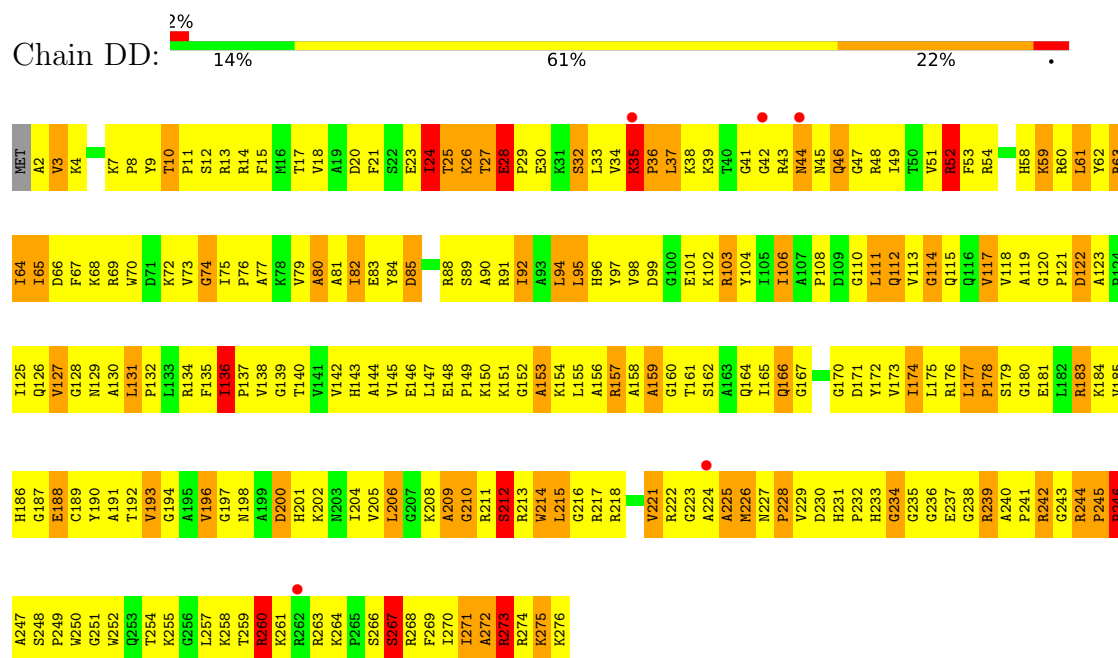
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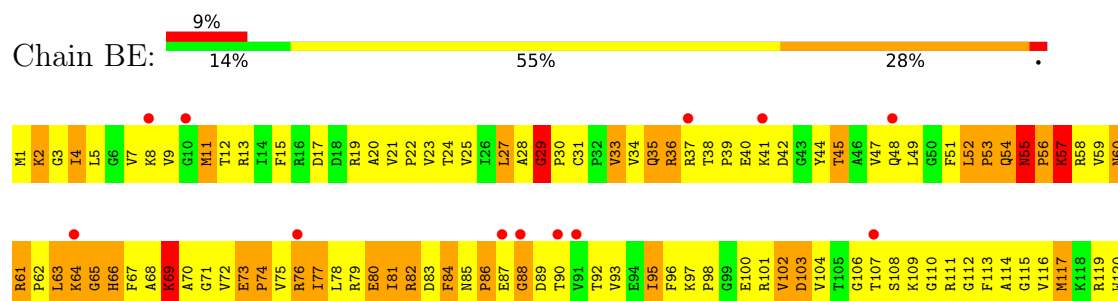
• Molecule 39: 50S RIBOSOMAL PROTEIN L2

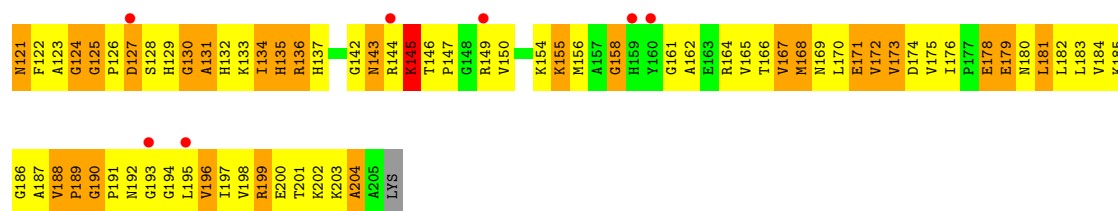


• Molecule 39: 50S RIBOSOMAL PROTEIN L2

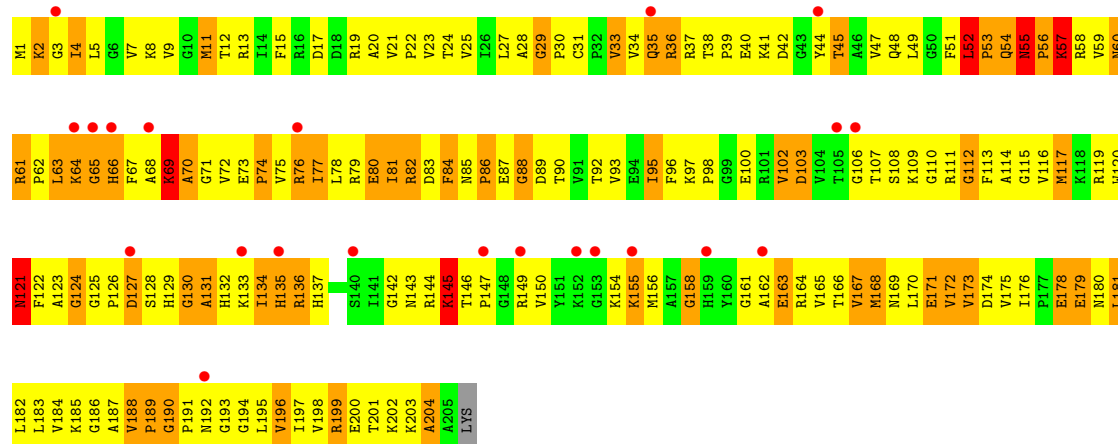
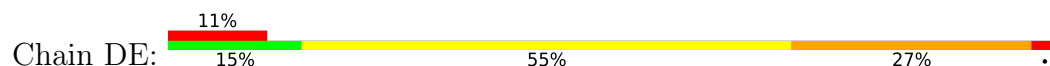


• Molecule 40: 50S RIBOSOMAL PROTEIN L3

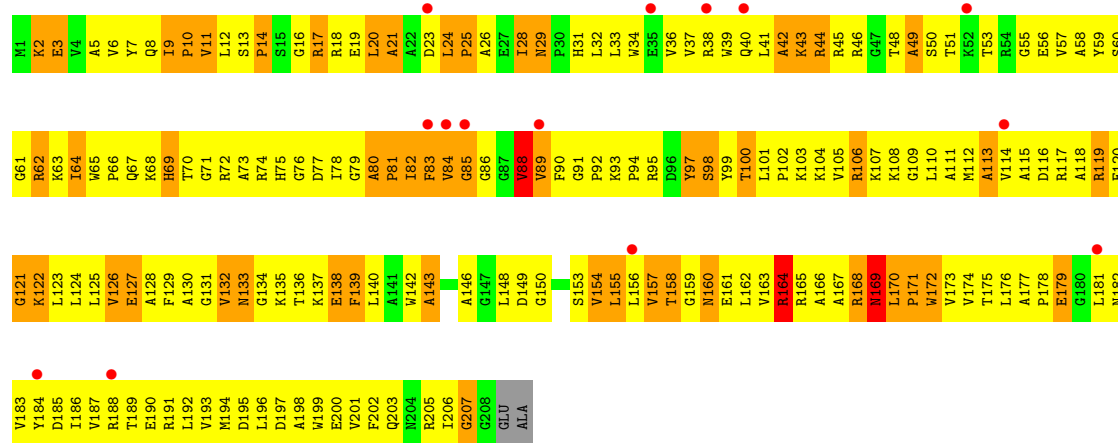
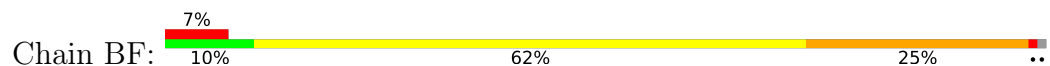




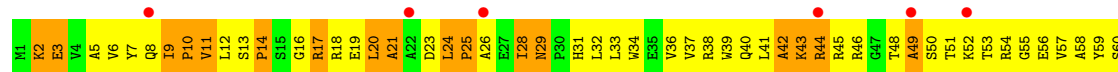
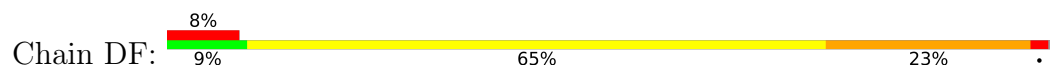
• Molecule 40: 50S RIBOSOMAL PROTEIN L3

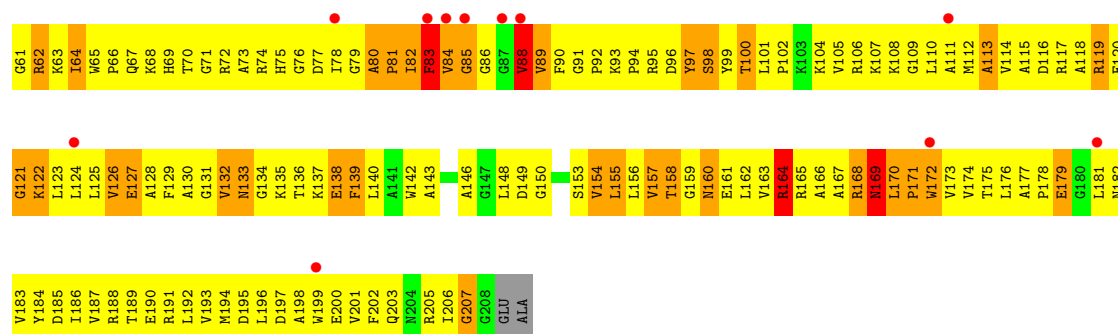


• Molecule 41: 50S RIBOSOMAL PROTEIN L4

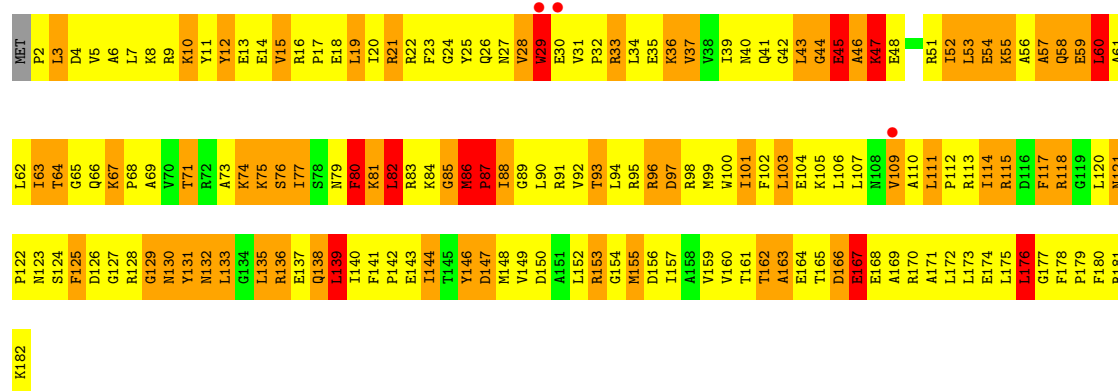


• Molecule 41: 50S RIBOSOMAL PROTEIN L4

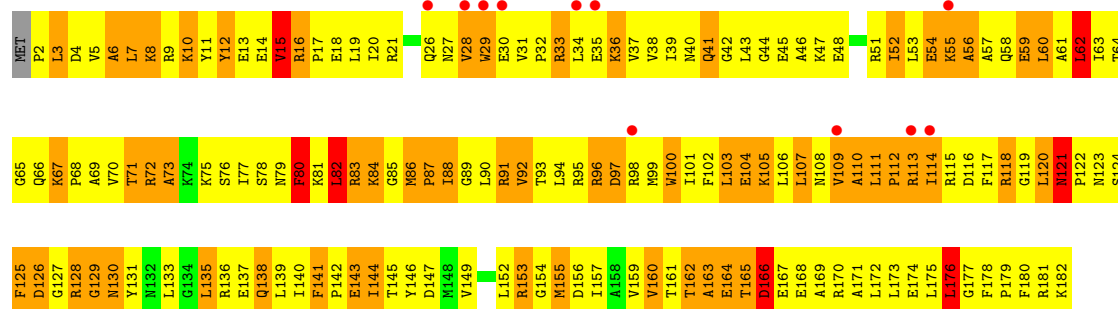
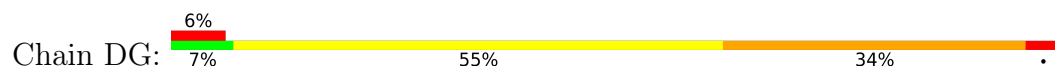




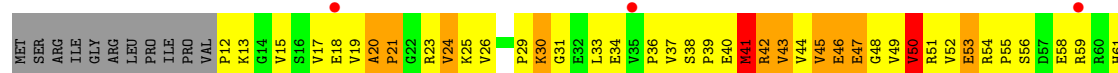
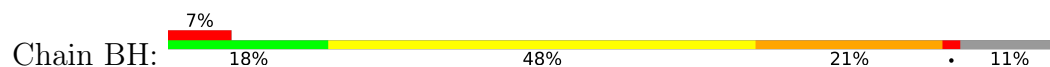
• Molecule 42: 50S RIBOSOMAL PROTEIN L5

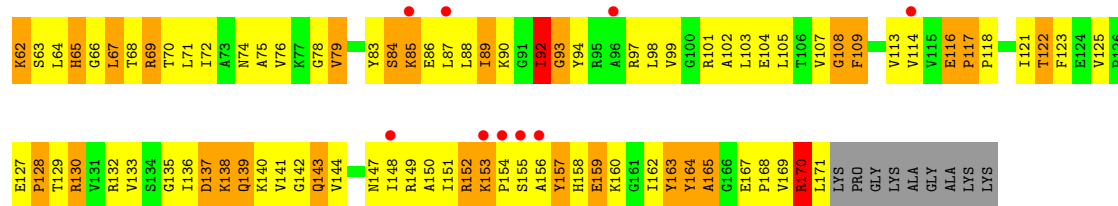


• Molecule 42: 50S RIBOSOMAL PROTEIN L5

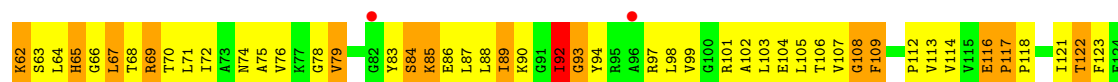
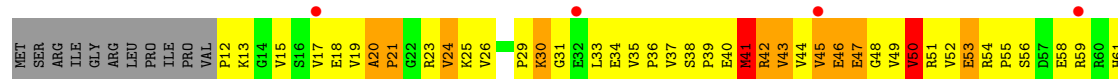
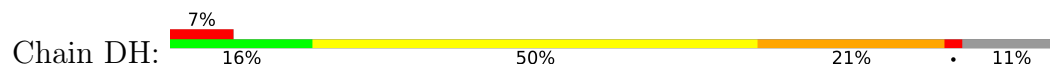


• Molecule 43: 50S RIBOSOMAL PROTEIN L6

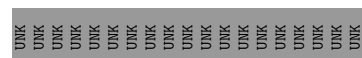
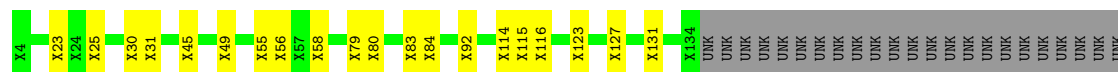




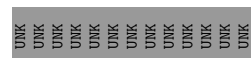
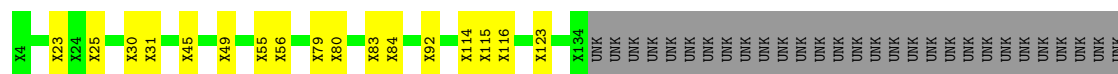
• Molecule 43: 50S RIBOSOMAL PROTEIN L6



• Molecule 44: 50S RIBOSOMAL PROTEIN L10



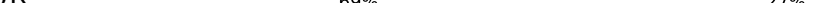
• Molecule 44: 50S RIBOSOMAL PROTEIN L10



• Molecule 45: 50S RIBOSOMAL PROTEIN L11

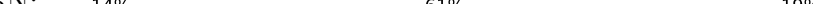


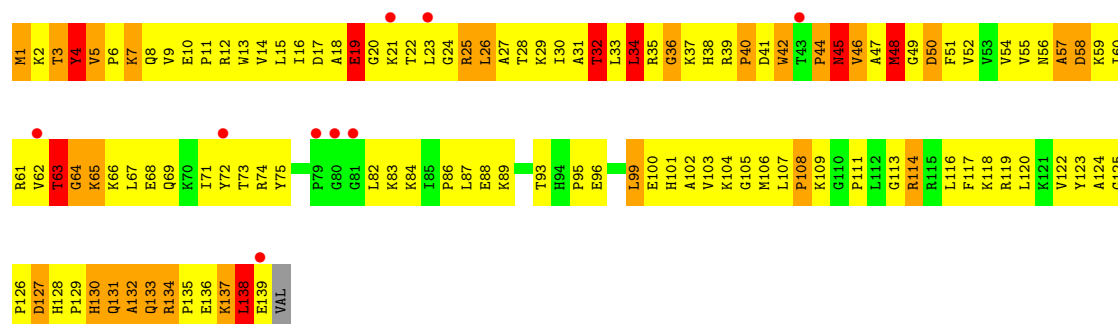
- Molecule 45: 50S RIBOSOMAL PROTEIN L11

Chain DK:  69% 27% .

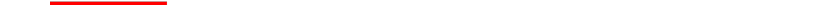


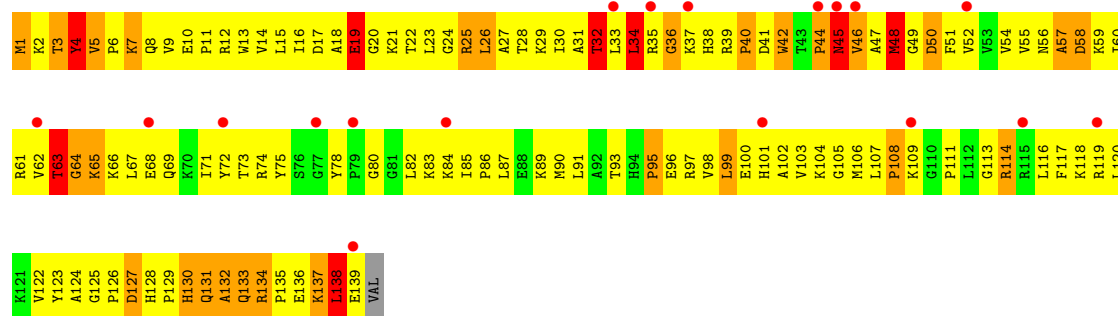
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN: 



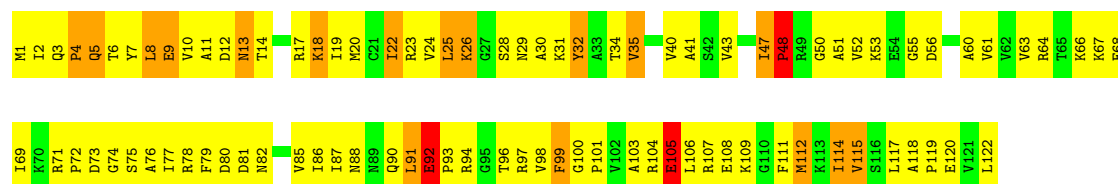
- Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN: 

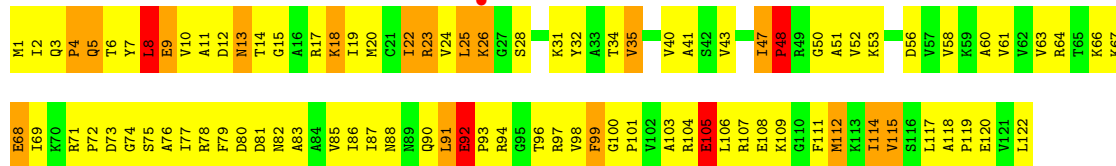


● Molecule 47: 50S RIBOSOMAL PROTEIN L14

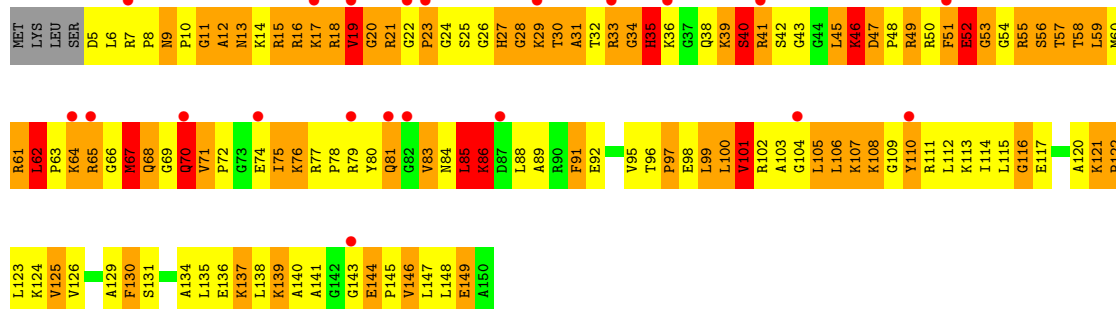
Chain BO: 25% 59% 14%



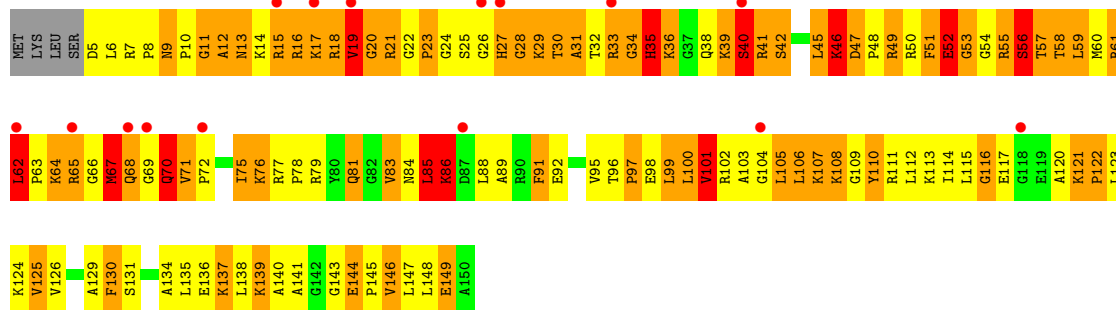
• Molecule 47: 50S RIBOSOMAL PROTEIN L14



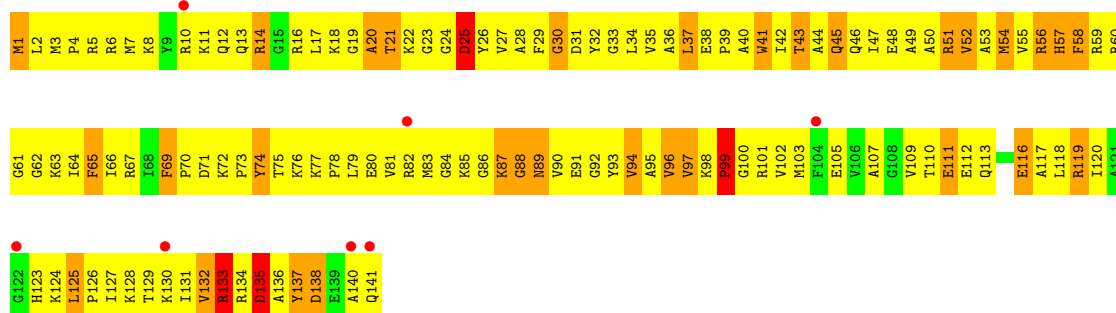
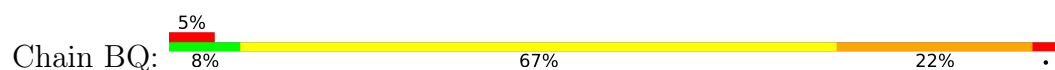
• Molecule 48: 50S RIBOSOMAL PROTEIN L15



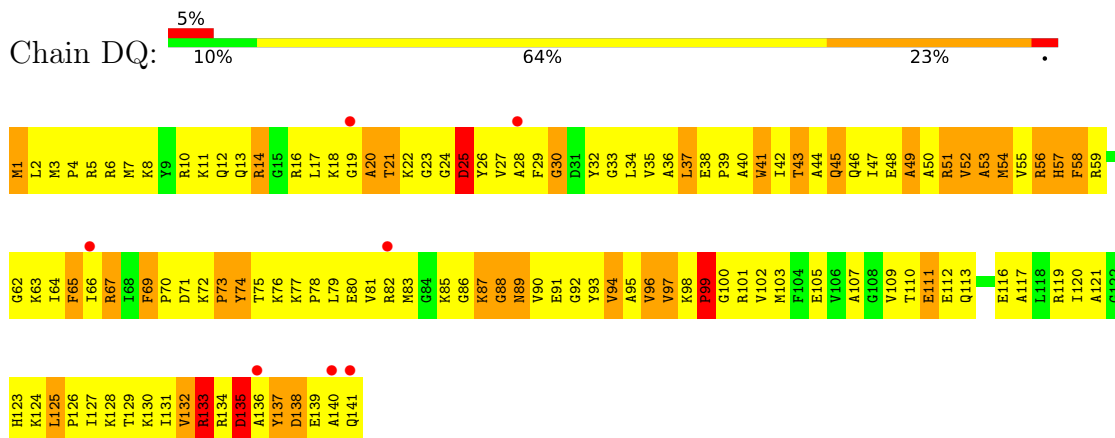
• Molecule 48: 50S RIBOSOMAL PROTEIN L15



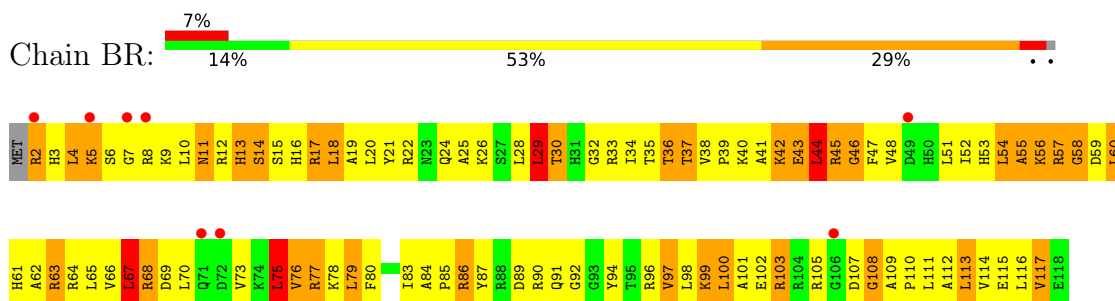
• Molecule 49: 50S RIBOSOMAL PROTEIN L16



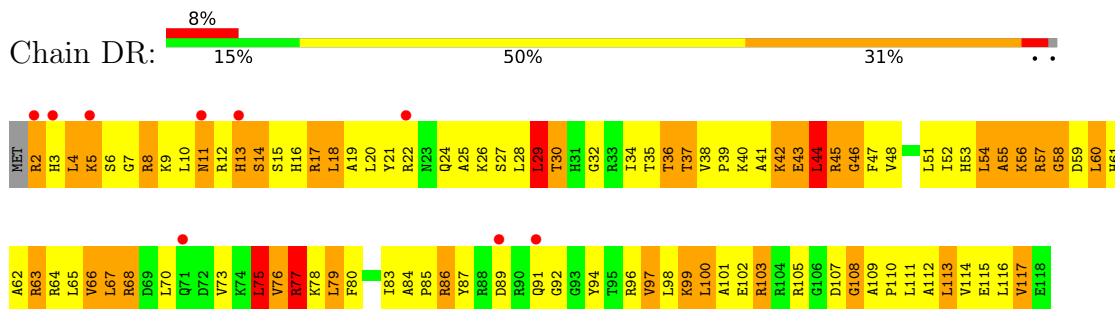
● Molecule 49: 50S RIBOSOMAL PROTEIN L16



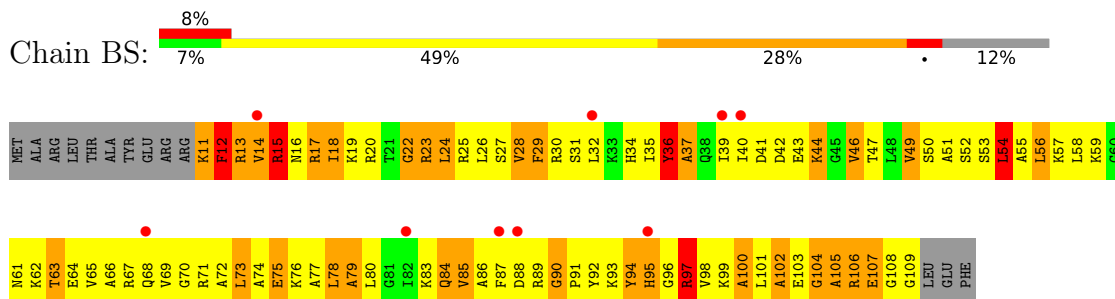
● Molecule 50: 50S RIBOSOMAL PROTEIN L17



● Molecule 50: 50S RIBOSOMAL PROTEIN L17

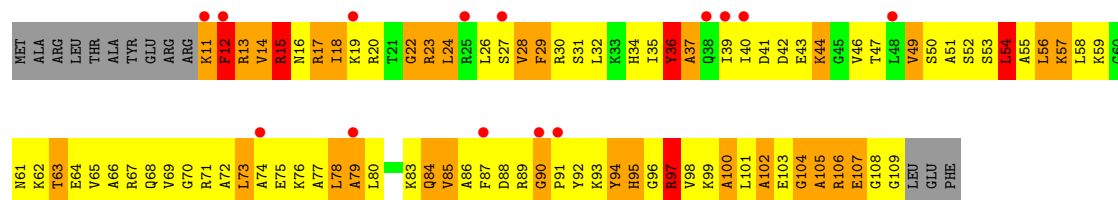


● Molecule 51: 50S RIBOSOMAL PROTEIN L18



● Molecule 51: 50S RIBOSOMAL PROTEIN L18





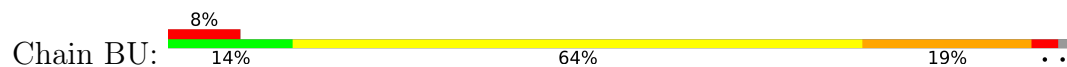
• Molecule 52: 50S RIBOSOMAL PROTEIN L19



• Molecule 52: 50S RIBOSOMAL PROTEIN L19

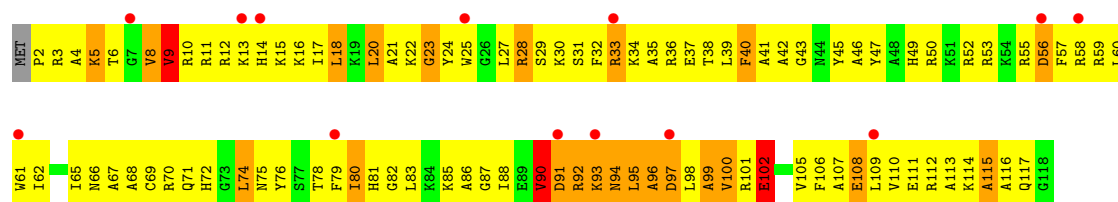


• Molecule 53: 50S RIBOSOMAL PROTEIN L20

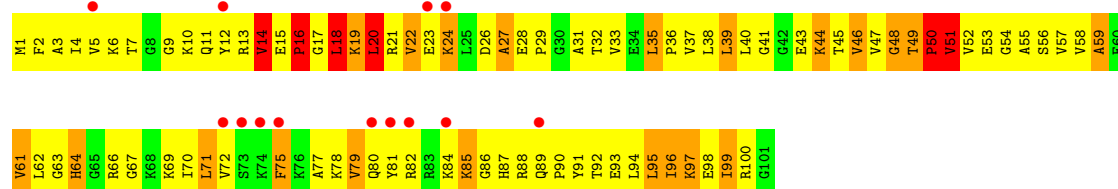
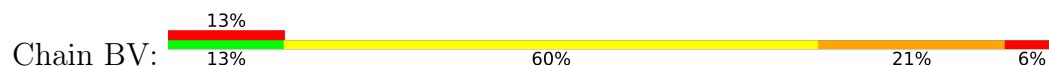


• Molecule 53: 50S RIBOSOMAL PROTEIN L20

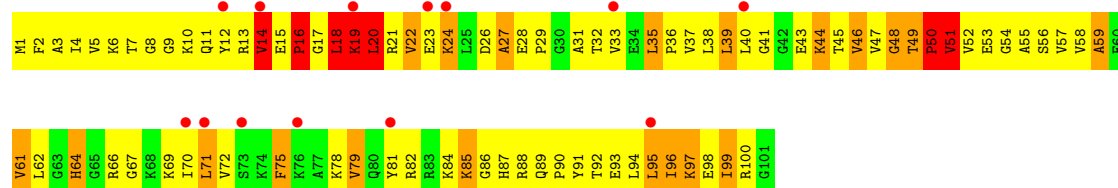
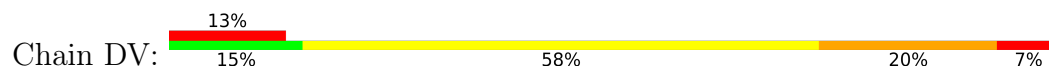




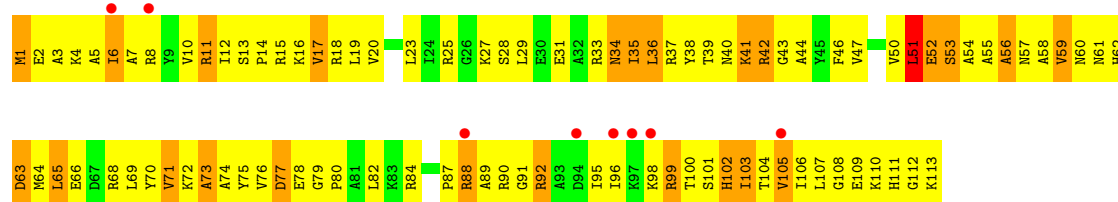
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



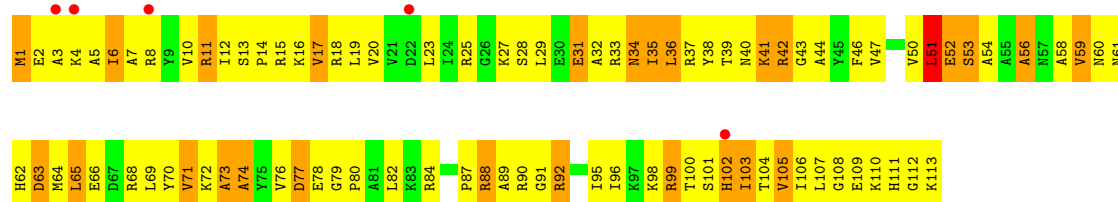
• Molecule 54: 50S RIBOSOMAL PROTEIN L21



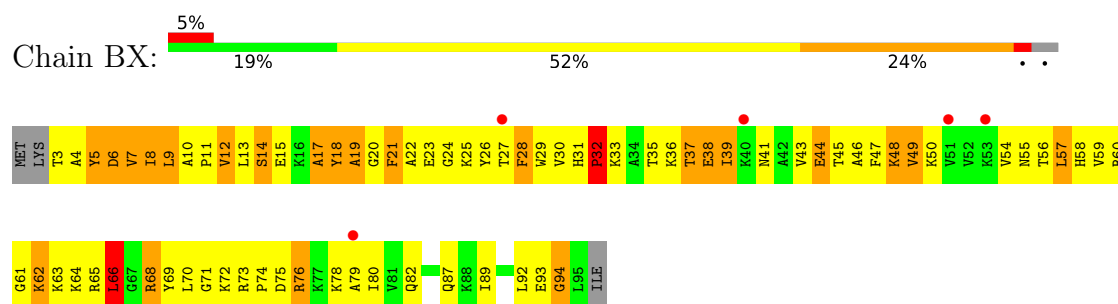
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



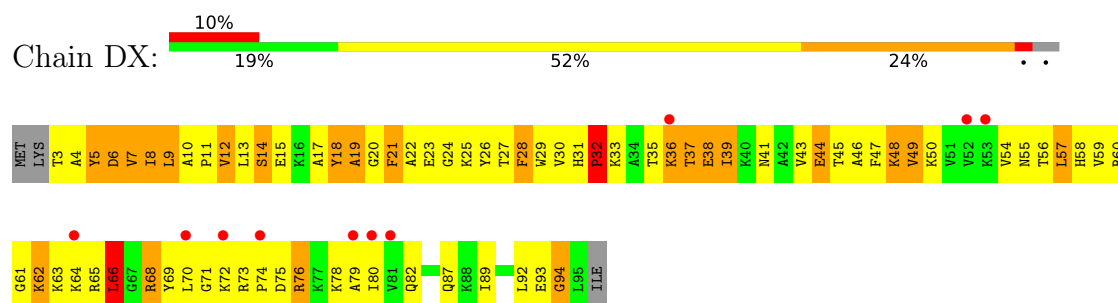
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



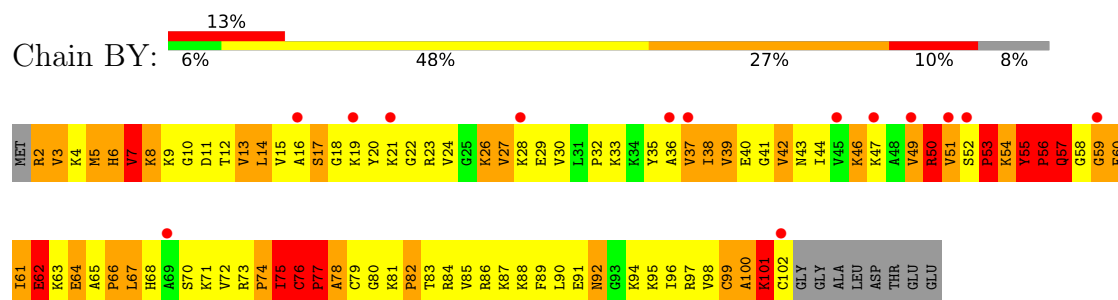
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



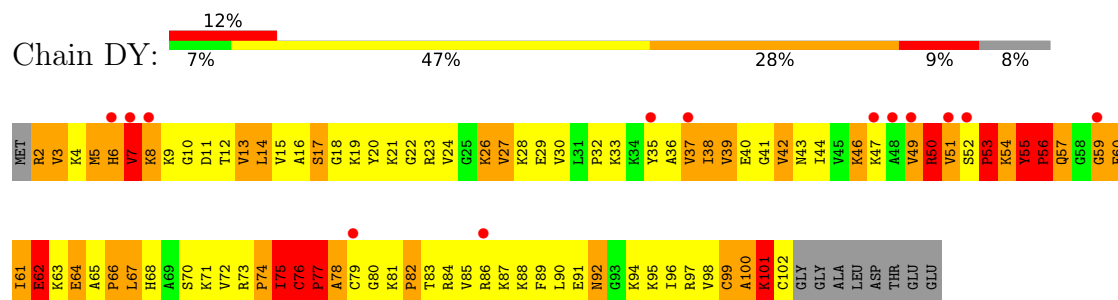
- Molecule 56: 50S RIBOSOMAL PROTEIN L23



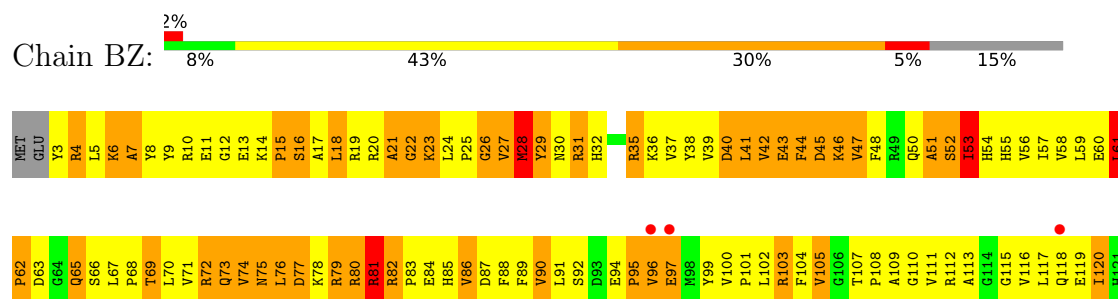
• Molecule 57: 50S RIBOSOMAL PROTEIN L24

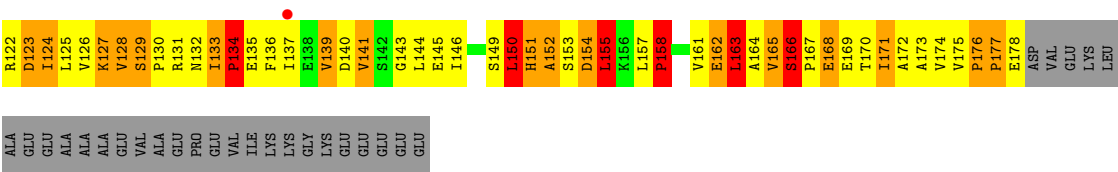


• Molecule 57: 50S RIBOSOMAL PROTEIN L24

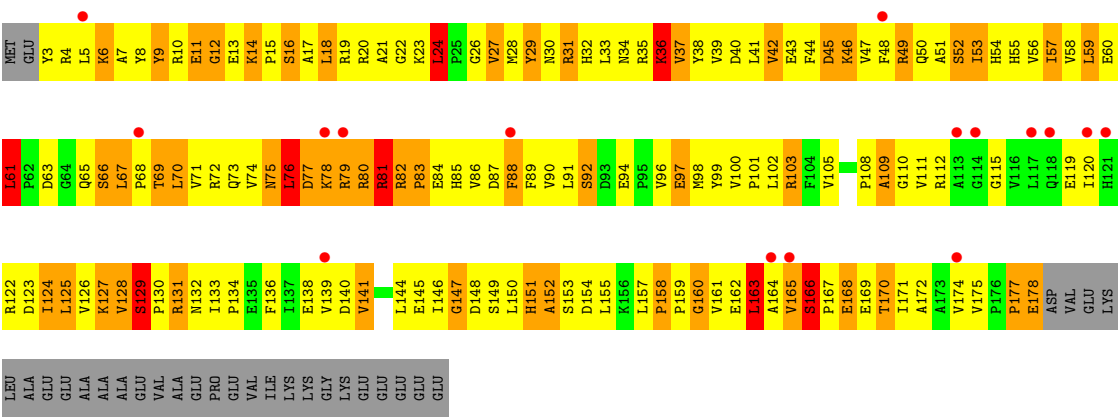


- Molecule 58: 50S RIBOSOMAL PROTEIN L25





● Molecule 58: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	289.57Å 268.36Å 403.88Å 90.00° 91.01° 90.00°	Depositor
Resolution (Å)	50.00 – 3.60 50.00 – 3.60	Depositor EDS
% Data completeness (in resolution range)	93.6 (50.00-3.60) 93.5 (50.00-3.60)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.57 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.281 , 0.315 0.278 , 0.312	Depositor DCC
R_{free} test set	35772 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	102.0	Xtriage
Anisotropy	0.110	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 92.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.37$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	0.098 for h,-k,-l	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	306876	wwPDB-VP
Average B, all atoms (Å ²)	106.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.21% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: YG, MG, 7MG, GDP, KIR, H2U, ZN, 5MU, PAR, PSU

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	0.53	0/36190	0.76	56/56486 (0.1%)
1	CA	0.53	0/36190	0.76	51/56486 (0.1%)
2	AB	0.58	1/1936 (0.1%)	1.05	10/2611 (0.4%)
2	CB	0.54	1/1936 (0.1%)	1.04	11/2611 (0.4%)
3	AC	0.61	1/1637 (0.1%)	1.07	15/2207 (0.7%)
3	CC	0.59	1/1637 (0.1%)	1.08	13/2207 (0.6%)
4	AD	0.58	0/1733	1.13	16/2318 (0.7%)
4	CD	0.54	0/1733	1.11	13/2318 (0.6%)
5	AE	0.72	1/1163 (0.1%)	1.15	8/1566 (0.5%)
5	CE	0.70	1/1163 (0.1%)	1.15	10/1566 (0.6%)
6	AF	0.50	0/856	0.98	3/1154 (0.3%)
6	CF	0.51	0/856	0.96	2/1154 (0.2%)
7	AG	0.52	0/1276	0.98	6/1709 (0.4%)
7	CG	0.49	0/1276	0.97	6/1709 (0.4%)
8	AH	0.64	0/1136	1.08	5/1527 (0.3%)
8	CH	0.60	0/1136	1.07	5/1527 (0.3%)
9	AI	0.47	0/1029	0.98	3/1379 (0.2%)
9	CI	0.45	0/1029	0.99	3/1379 (0.2%)
10	AJ	0.63	1/808 (0.1%)	1.11	10/1087 (0.9%)
10	CJ	0.64	1/808 (0.1%)	1.11	9/1087 (0.8%)
11	AK	0.62	0/900	1.13	11/1213 (0.9%)
11	CK	0.61	0/900	1.13	8/1213 (0.7%)
12	AL	0.66	1/987 (0.1%)	1.15	7/1322 (0.5%)
12	CL	0.66	1/987 (0.1%)	1.13	8/1322 (0.6%)
13	AM	0.57	1/999 (0.1%)	1.17	8/1338 (0.6%)
13	CM	0.56	1/999 (0.1%)	1.16	7/1338 (0.5%)
14	AN	0.61	0/501	1.06	3/664 (0.5%)
14	CN	0.61	0/501	1.06	3/664 (0.5%)
15	AO	0.59	0/745	1.13	7/992 (0.7%)
15	CO	0.56	0/745	1.12	7/992 (0.7%)
16	AP	0.61	1/717 (0.1%)	1.09	5/965 (0.5%)
16	CP	0.60	1/717 (0.1%)	1.10	8/965 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.56	1/837 (0.1%)	1.07	6/1119 (0.5%)
17	CQ	0.57	1/837 (0.1%)	1.07	5/1119 (0.4%)
18	AR	0.62	0/579	1.06	4/768 (0.5%)
18	CR	0.61	0/579	1.07	5/768 (0.7%)
19	AS	0.59	1/643 (0.2%)	0.94	2/867 (0.2%)
19	CS	0.57	1/643 (0.2%)	0.94	2/867 (0.2%)
20	AT	0.48	0/765	1.20	9/1007 (0.9%)
20	CT	0.47	0/765	1.20	9/1007 (0.9%)
21	AU	0.66	1/213 (0.5%)	0.95	0/279
21	CU	0.70	1/213 (0.5%)	0.97	1/279 (0.4%)
22	AV	0.44	0/1809	0.73	1/2819 (0.0%)
22	AW	0.43	0/1809	0.66	0/2819
22	CV	0.43	0/1809	0.73	1/2819 (0.0%)
22	CW	0.43	0/1809	0.66	1/2819 (0.0%)
23	AX	0.60	0/304	0.91	0/471
23	CX	0.62	0/304	0.89	0/471
24	AY	0.45	0/1660	0.65	1/2583 (0.0%)
24	CY	0.47	0/1660	0.66	1/2583 (0.0%)
25	AZ	0.49	0/2957	1.03	15/4015 (0.4%)
25	CZ	0.48	0/2957	1.03	12/4015 (0.3%)
26	B0	0.49	0/671	1.00	5/892 (0.6%)
26	D0	0.48	0/671	0.99	5/892 (0.6%)
27	B1	0.79	1/739 (0.1%)	1.26	6/983 (0.6%)
27	D1	0.73	0/739	1.36	14/983 (1.4%)
28	B2	0.53	0/600	1.38	11/793 (1.4%)
28	D2	0.54	0/600	1.27	5/793 (0.6%)
29	B3	0.58	1/473 (0.2%)	1.21	7/636 (1.1%)
29	D3	0.58	1/473 (0.2%)	1.21	7/636 (1.1%)
30	B4	0.88	1/350 (0.3%)	1.10	0/476
30	D4	0.97	1/350 (0.3%)	1.09	0/476
31	B5	0.55	0/473	1.16	5/639 (0.8%)
31	D5	0.56	0/473	1.14	5/639 (0.8%)
32	B6	0.66	0/440	1.35	10/586 (1.7%)
32	D6	0.70	0/440	1.37	10/586 (1.7%)
33	B7	0.62	1/427 (0.2%)	1.10	6/563 (1.1%)
33	D7	0.62	1/427 (0.2%)	1.08	5/563 (0.9%)
34	B8	0.63	1/516 (0.2%)	1.14	7/681 (1.0%)
34	D8	0.63	1/516 (0.2%)	1.15	8/681 (1.2%)
35	B9	0.53	0/310	1.00	2/407 (0.5%)
35	D9	0.56	0/310	1.03	2/407 (0.5%)
36	BA	0.52	0/69972	0.74	58/109237 (0.1%)
36	DA	0.52	0/69972	0.74	63/109237 (0.1%)
37	BB	0.46	0/2853	0.66	1/4451 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DB	0.45	0/2853	0.66	1/4451 (0.0%)
38	BC	0.58	4/1774 (0.2%)	1.10	10/2391 (0.4%)
38	DC	0.56	4/1774 (0.2%)	1.08	11/2391 (0.5%)
39	BD	0.72	0/2195	1.28	23/2955 (0.8%)
39	DD	0.68	0/2195	1.25	23/2955 (0.8%)
40	BE	0.61	1/1597 (0.1%)	1.15	17/2155 (0.8%)
40	DE	0.59	1/1597 (0.1%)	1.15	16/2155 (0.7%)
41	BF	0.56	1/1659 (0.1%)	1.14	16/2246 (0.7%)
41	DF	0.53	1/1659 (0.1%)	1.13	15/2246 (0.7%)
42	BG	0.58	0/1499	1.30	19/2016 (0.9%)
42	DG	0.57	0/1499	1.17	19/2016 (0.9%)
43	BH	0.49	1/1246 (0.1%)	1.20	12/1684 (0.7%)
43	DH	0.50	1/1246 (0.1%)	1.20	12/1684 (0.7%)
46	BN	0.53	1/1132 (0.1%)	1.16	10/1527 (0.7%)
46	DN	0.52	1/1132 (0.1%)	1.14	10/1527 (0.7%)
47	BO	0.64	0/943	1.15	11/1269 (0.9%)
47	DO	0.63	0/943	1.16	11/1269 (0.9%)
48	BP	0.61	0/1131	1.48	27/1504 (1.8%)
48	DP	0.59	0/1131	1.47	28/1504 (1.9%)
49	BQ	0.56	0/1143	1.16	14/1527 (0.9%)
49	DQ	0.56	0/1143	1.16	13/1527 (0.9%)
50	BR	0.51	0/974	1.12	6/1302 (0.5%)
50	DR	0.51	0/974	1.15	8/1302 (0.6%)
51	BS	0.51	1/779 (0.1%)	1.02	7/1038 (0.7%)
51	DS	0.52	1/779 (0.1%)	1.04	8/1038 (0.8%)
52	BT	0.57	1/1156 (0.1%)	1.14	11/1544 (0.7%)
52	DT	0.54	1/1156 (0.1%)	1.13	11/1544 (0.7%)
53	BU	0.51	0/975	1.19	11/1297 (0.8%)
53	DU	0.52	0/975	1.17	10/1297 (0.8%)
54	BV	0.50	0/790	1.02	3/1057 (0.3%)
54	DV	0.49	0/790	1.02	3/1057 (0.3%)
55	BW	0.55	0/907	1.04	6/1216 (0.5%)
55	DW	0.54	0/907	1.06	6/1216 (0.5%)
56	BX	0.54	1/740 (0.1%)	1.11	6/995 (0.6%)
56	DX	0.54	1/740 (0.1%)	1.10	7/995 (0.7%)
57	BY	0.56	1/789 (0.1%)	1.25	10/1053 (0.9%)
57	DY	0.57	1/789 (0.1%)	1.25	9/1053 (0.9%)
58	BZ	0.57	0/1435	1.21	19/1949 (1.0%)
58	DZ	0.58	0/1435	1.19	19/1949 (1.0%)
All	All	0.54	53/329754 (0.0%)	0.87	1132/492708 (0.2%)

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

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	1	68
1	CA	0	63
22	AV	0	2
22	AW	0	3
22	CV	0	2
22	CW	0	3
23	AX	0	1
23	CX	0	1
30	B4	0	1
30	D4	0	1
36	BA	2	84
36	DA	1	84
46	BN	0	1
46	DN	0	1
All	All	4	315

All (53) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	D4	47	GLN	C-N	-10.02	1.19	1.33
30	B4	47	GLN	C-N	-7.06	1.23	1.33
38	BC	218	MET	SD-CE	6.92	1.96	1.79
38	BC	218	MET	CG-SD	6.62	1.97	1.80
38	BC	120	MET	CG-SD	6.37	1.96	1.80
27	B1	95	LEU	C-N	-6.30	1.24	1.33
46	DN	138	LEU	C-N	-6.00	1.25	1.33
21	CU	25	LYS	C-N	-6.00	1.25	1.33
38	DC	218	MET	CG-SD	5.96	1.95	1.80
38	DC	120	MET	CG-SD	5.94	1.95	1.80
10	CJ	100	THR	C-N	-5.93	1.25	1.33
51	BS	108	GLY	C-N	-5.91	1.25	1.33
34	B8	64	TYR	C-N	-5.87	1.25	1.33
51	DS	108	GLY	C-N	-5.86	1.25	1.33
3	AC	207	VAL	C-N	-5.74	1.25	1.33
12	CL	128	ALA	C-N	-5.73	1.25	1.33
17	AQ	100	LYS	C-N	-5.72	1.25	1.33
33	D7	48	LYS	C-N	-5.71	1.25	1.33
43	DH	170	ARG	C-N	-5.69	1.25	1.33
21	AU	25	LYS	C-N	-5.68	1.25	1.33
40	DE	204	ALA	C-N	-5.67	1.25	1.33
29	D3	59	VAL	C-N	-5.64	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	AP	83	GLU	C-N	-5.64	1.25	1.33
56	BX	94	GLY	C-N	-5.63	1.25	1.33
13	CM	125	ARG	C-N	-5.63	1.25	1.33
43	BH	170	ARG	C-N	-5.62	1.25	1.33
16	CP	83	GLU	C-N	-5.61	1.25	1.33
19	CS	81	ARG	C-N	-5.61	1.25	1.33
5	AE	154	GLY	C-N	-5.60	1.25	1.33
3	CC	207	VAL	C-N	-5.59	1.25	1.33
38	DC	120	MET	SD-CE	5.59	1.93	1.79
38	BC	120	MET	SD-CE	5.59	1.93	1.79
52	BT	137	LYS	C-N	-5.58	1.25	1.33
34	D8	64	TYR	C-N	-5.57	1.25	1.33
46	BN	138	LEU	C-N	-5.57	1.25	1.33
10	AJ	100	THR	C-N	-5.53	1.25	1.33
41	BF	207	GLY	C-N	-5.53	1.25	1.33
40	BE	204	ALA	C-N	-5.52	1.25	1.33
12	AL	128	ALA	C-N	-5.51	1.25	1.33
13	AM	125	ARG	C-N	-5.51	1.25	1.33
33	B7	48	LYS	C-N	-5.51	1.25	1.33
56	DX	94	GLY	C-N	-5.51	1.25	1.33
2	AB	240	GLN	C-N	-5.50	1.25	1.33
5	CE	154	GLY	C-N	-5.48	1.25	1.33
52	DT	137	LYS	C-N	-5.46	1.25	1.33
19	AS	81	ARG	C-N	-5.42	1.25	1.33
57	DY	101	LYS	C-N	-5.39	1.25	1.33
29	B3	59	VAL	C-N	-5.39	1.25	1.33
57	BY	101	LYS	C-N	-5.37	1.25	1.33
38	DC	218	MET	SD-CE	5.36	1.93	1.79
17	CQ	100	LYS	C-N	-5.33	1.25	1.33
41	DF	207	GLY	C-N	-5.30	1.25	1.33
2	CB	240	GLN	C-N	-5.17	1.26	1.33

All (1132) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1498	U	C2'-C3'-O3'	16.34	134.01	109.50
28	D2	32	LEU	N-CA-C	-15.06	94.86	111.28
4	AD	12	CYS	N-CA-C	-14.86	95.09	111.28
4	CD	12	CYS	N-CA-C	-14.46	95.52	111.28
42	BG	88	ILE	N-CA-C	13.25	127.56	108.48
36	BA	1799	G	C2'-C3'-O3'	12.87	128.80	109.50
36	DA	1799	G	C2'-C3'-O3'	12.83	128.75	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	BP	51	PHE	N-CA-C	12.73	129.65	109.79
36	BA	1819	A	C2'-C3'-O3'	12.65	128.48	109.50
48	DP	51	PHE	N-CA-C	12.60	129.45	109.79
28	B2	32	LEU	N-CA-C	-12.27	96.05	111.75
36	DA	1819	A	C2'-C3'-O3'	12.04	127.56	109.50
1	CA	1498	U	C2'-C3'-O3'	11.85	127.28	109.50
36	BA	1653	G	C2'-C3'-O3'	11.74	127.11	109.50
57	DY	54	LYS	N-CA-C	-11.67	93.21	110.48
36	DA	1992	G	C2'-C3'-O3'	11.43	126.65	109.50
50	BR	76	VAL	N-CA-C	-11.35	100.90	111.45
43	DH	116	GLU	CA-C-N	11.24	127.87	119.66
43	DH	116	GLU	C-N-CA	11.24	127.87	119.66
42	BG	54	GLU	N-CA-C	-11.22	101.82	114.62
36	DA	1653	G	C2'-C3'-O3'	11.07	126.11	109.50
1	AA	575	G	C2'-C3'-O3'	11.05	126.08	109.50
43	BH	116	GLU	CA-C-N	10.88	127.60	119.66
43	BH	116	GLU	C-N-CA	10.88	127.60	119.66
50	DR	76	VAL	N-CA-C	-10.82	101.39	111.45
20	CT	13	LEU	N-CA-C	-10.81	99.28	111.71
56	BX	38	GLU	N-CA-C	-10.79	99.60	111.36
46	BN	25	ARG	N-CA-C	-10.75	100.11	113.01
1	AA	243	A	C2'-C3'-O3'	10.71	125.57	109.50
36	BA	1992	G	C2'-C3'-O3'	10.60	125.40	109.50
57	BY	54	LYS	N-CA-C	-10.58	93.48	110.20
20	AT	13	LEU	N-CA-C	-10.54	99.58	111.71
13	AM	92	HIS	N-CA-C	-10.48	98.65	111.33
31	D5	48	GLU	N-CA-C	-10.47	97.87	110.44
36	DA	2610	C	C2'-C3'-O3'	10.45	125.18	109.50
1	CA	575	G	C2'-C3'-O3'	10.44	125.16	109.50
27	D1	74	VAL	N-CA-C	-10.41	102.55	112.96
56	DX	38	GLU	N-CA-C	-10.38	100.05	111.36
46	DN	25	ARG	N-CA-C	-10.31	100.64	113.01
36	DA	1819	A	C4'-C3'-O3'	10.30	124.85	109.40
13	CM	92	HIS	N-CA-C	-10.22	98.96	111.33
36	BA	1820	U	C2'-C3'-O3'	10.21	124.81	109.50
53	BU	99	ALA	N-CA-C	-10.18	99.17	111.69
13	AM	80	ARG	N-CA-C	-10.13	99.47	112.23
13	CM	80	ARG	N-CA-C	-10.13	99.46	112.23
42	DG	54	GLU	N-CA-C	-10.11	101.50	114.04
1	CA	243	A	C2'-C3'-O3'	10.07	124.61	109.50
5	AE	150	ARG	N-CA-C	-9.98	101.23	113.50
58	DZ	109	ALA	N-CA-C	-9.93	101.38	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BG	86	MET	CA-C-N	-9.92	107.44	119.84
42	BG	86	MET	C-N-CA	-9.92	107.44	119.84
20	CT	12	ALA	N-CA-C	-9.89	102.28	114.75
39	BD	209	ALA	N-CA-C	-9.89	99.53	112.68
31	B5	48	GLU	N-CA-C	-9.78	98.70	110.44
48	BP	58	THR	N-CA-C	-9.76	97.27	112.99
39	BD	215	LEU	N-CA-C	-9.70	99.59	111.33
53	DU	99	ALA	N-CA-C	-9.70	99.76	111.69
41	BF	121	GLY	N-CA-C	-9.69	103.22	113.58
41	DF	121	GLY	N-CA-C	-9.67	103.23	113.58
42	DG	55	LYS	N-CA-C	-9.65	100.77	112.54
39	DD	215	LEU	N-CA-C	-9.62	99.69	111.33
20	AT	12	ALA	N-CA-C	-9.62	102.64	114.75
46	BN	51	PHE	N-CA-C	-9.61	94.34	109.72
36	BA	2610	C	C2'-C3'-O3'	9.53	123.80	109.50
39	DD	209	ALA	N-CA-C	-9.52	100.01	112.68
39	BD	85	ASP	CA-C-N	9.50	129.23	119.64
39	BD	85	ASP	C-N-CA	9.50	129.23	119.64
36	DA	331	A	C2'-C3'-O3'	9.46	123.69	109.50
4	CD	10	ARG	N-CA-C	-9.44	101.88	113.97
13	AM	82	MET	N-CA-C	-9.35	100.81	112.88
58	BZ	155	LEU	N-CA-C	9.30	120.17	108.45
40	DE	73	GLU	CA-C-N	9.28	129.21	120.03
40	DE	73	GLU	C-N-CA	9.28	129.21	120.03
36	BA	1799	G	C4'-C3'-O3'	9.27	123.30	109.40
48	DP	58	THR	N-CA-C	-9.25	98.10	112.99
36	BA	331	A	C2'-C3'-O3'	9.20	123.30	109.50
5	CE	150	ARG	N-CA-C	-9.17	102.23	113.50
36	BA	1819	A	C4'-C3'-O3'	9.14	123.11	109.40
13	CM	82	MET	N-CA-C	-9.12	101.12	112.88
53	BU	97	ASP	N-CA-C	-9.10	102.32	113.15
7	AG	142	GLU	N-CA-C	-9.04	100.57	111.69
53	DU	97	ASP	N-CA-C	-9.03	102.41	113.15
48	DP	139	LYS	N-CA-C	-8.98	101.40	111.82
27	B1	40	ARG	N-CA-C	8.95	120.07	108.34
4	AD	10	ARG	N-CA-C	-8.95	102.52	113.97
36	DA	1820	U	C2'-C3'-O3'	8.92	122.89	109.50
40	BE	73	GLU	CA-C-N	8.92	128.86	120.03
40	BE	73	GLU	C-N-CA	8.92	128.86	120.03
58	BZ	4	ARG	N-CA-C	8.91	119.67	108.45
46	DN	51	PHE	N-CA-C	-8.89	95.49	109.72
2	AB	172	ILE	N-CA-C	-8.88	101.68	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	BP	41	ARG	N-CA-C	-8.86	88.97	107.67
12	AL	26	ALA	N-CA-C	-8.82	101.19	113.37
50	BR	44	LEU	N-CA-C	-8.82	102.51	113.18
43	DH	157	TYR	N-CA-C	-8.77	100.32	111.90
50	DR	44	LEU	N-CA-C	-8.77	102.57	113.18
12	CL	26	ALA	N-CA-C	-8.77	101.27	113.37
42	BG	55	LYS	N-CA-C	-8.75	101.64	111.71
32	D6	8	LYS	N-CA-C	-8.73	100.95	111.69
36	BA	2110	G	C2'-C3'-O3'	8.72	122.59	109.50
48	BP	139	LYS	N-CA-C	-8.72	101.70	111.82
43	BH	157	TYR	N-CA-C	-8.70	100.42	111.90
29	D3	22	ALA	N-CA-C	-8.68	102.70	113.38
36	DA	2110	G	C2'-C3'-O3'	8.67	122.51	109.50
29	B3	22	ALA	N-CA-C	-8.64	102.75	113.38
1	CA	974	A	C2'-C3'-O3'	-8.63	100.76	113.70
48	BP	52	GLU	N-CA-C	8.54	129.00	110.80
11	AK	52	GLY	N-CA-C	8.54	121.60	111.35
36	DA	1799	G	C4'-C3'-O3'	8.54	122.21	109.40
48	DP	52	GLU	N-CA-C	8.53	128.98	110.80
15	CO	78	TYR	N-CA-C	-8.51	100.48	112.13
15	AO	78	TYR	N-CA-C	-8.49	100.74	112.12
7	CG	142	GLU	N-CA-C	-8.49	101.24	111.69
11	CK	52	GLY	N-CA-C	8.49	121.54	111.35
25	CZ	137	LYS	N-CA-C	-8.45	103.49	113.38
2	CB	172	ILE	N-CA-C	-8.43	102.12	110.30
1	CA	412	A	C2'-C3'-O3'	-8.37	101.14	113.70
36	BA	74	A	C2'-C3'-O3'	8.31	121.96	109.50
1	AA	641	U	C2'-C3'-O3'	8.25	121.88	109.50
5	AE	67	VAL	N-CA-C	8.25	119.46	107.75
50	BR	5	LYS	N-CA-C	-8.22	102.82	113.17
32	B6	8	LYS	N-CA-C	-8.21	101.59	111.69
3	AC	39	ILE	N-CA-C	-8.20	102.71	110.42
1	AA	412	A	C2'-C3'-O3'	-8.19	101.42	113.70
36	DA	74	A	C2'-C3'-O3'	8.19	121.78	109.50
46	DN	34	LEU	N-CA-C	-8.15	102.34	113.18
52	BT	11	GLU	N-CA-C	-8.13	103.11	112.87
3	AC	19	GLU	N-CA-C	-8.12	101.43	113.61
39	DD	85	ASP	CA-C-N	8.12	127.84	119.64
39	DD	85	ASP	C-N-CA	8.12	127.84	119.64
54	BV	14	VAL	N-CA-C	8.09	121.61	108.99
41	BF	44	ARG	N-CA-C	-8.08	103.56	113.41
46	BN	32	THR	N-CA-C	-8.04	102.47	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	DR	5	LYS	N-CA-C	-8.02	103.22	113.16
50	DR	55	ALA	N-CA-C	-8.02	102.62	111.36
8	CH	88	LYS	N-CA-C	-8.01	100.70	110.31
3	CC	19	GLU	N-CA-C	-8.01	101.60	113.61
15	CO	67	LEU	N-CA-C	-8.01	103.51	113.28
42	DG	162	THR	N-CA-C	-8.00	103.67	113.19
39	DD	114	GLY	N-CA-C	-7.97	104.46	113.79
25	AZ	207	ASP	N-CA-C	-7.97	102.28	110.97
48	DP	41	ARG	N-CA-C	-7.96	90.87	107.67
2	CB	13	ALA	N-CA-C	-7.95	102.30	110.97
27	D1	13	ILE	N-CA-C	7.94	120.94	108.87
39	BD	114	GLY	N-CA-C	-7.93	104.51	113.79
3	CC	39	ILE	N-CA-C	-7.93	102.97	110.42
57	DY	52	SER	CA-C-N	7.92	129.74	119.84
57	DY	52	SER	C-N-CA	7.92	129.74	119.84
54	DV	14	VAL	N-CA-C	7.92	121.34	108.99
4	AD	198	VAL	N-CA-C	7.89	119.16	108.11
57	BY	52	SER	CA-C-N	7.89	129.70	119.84
57	BY	52	SER	C-N-CA	7.89	129.70	119.84
48	BP	54	GLY	N-CA-C	-7.88	104.44	114.37
1	CA	60	A	C2'-C3'-O3'	7.86	121.30	109.50
1	CA	641	U	C2'-C3'-O3'	7.86	121.29	109.50
5	CE	67	VAL	N-CA-C	7.86	118.91	107.75
46	DN	32	THR	N-CA-C	-7.83	102.69	111.07
2	AB	13	ALA	N-CA-C	-7.78	102.48	110.97
58	DZ	124	ILE	N-CA-C	7.78	119.53	108.17
52	DT	11	GLU	N-CA-C	-7.78	103.54	112.87
28	B2	12	GLU	N-CA-C	-7.77	102.89	111.36
50	DR	17	ARG	N-CA-C	-7.77	101.92	111.40
25	CZ	207	ASP	N-CA-C	-7.75	102.53	110.97
42	BG	76	SER	N-CA-C	7.72	121.70	110.28
29	D3	47	VAL	N-CA-C	-7.70	105.66	111.90
53	DU	96	ALA	N-CA-C	-7.69	103.95	112.72
47	BO	22	ILE	N-CA-C	-7.69	104.25	111.48
15	AO	67	LEU	N-CA-C	-7.67	103.90	113.18
48	BP	121	LYS	CA-C-N	7.66	129.42	119.84
48	BP	121	LYS	C-N-CA	7.66	129.42	119.84
56	DX	37	THR	N-CA-C	-7.64	103.57	113.12
41	DF	44	ARG	N-CA-C	-7.64	104.09	113.41
49	BQ	74	TYR	N-CA-C	-7.62	100.47	110.53
1	AA	60	A	C2'-C3'-O3'	7.62	120.92	109.50
47	DO	66	LYS	N-CA-C	-7.62	103.96	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	BU	96	ALA	N-CA-C	-7.61	104.04	112.72
28	D2	67	LYS	N-CA-C	-7.59	102.95	111.07
1	AA	47	C	C2'-C3'-O3'	7.58	120.88	109.50
1	CA	47	C	C2'-C3'-O3'	7.58	120.86	109.50
8	AH	88	LYS	N-CA-C	-7.56	101.24	110.31
25	CZ	231	ILE	N-CA-C	7.55	120.15	108.44
5	CE	84	PHE	N-CA-C	-7.55	101.13	110.65
50	BR	55	ALA	N-CA-C	-7.54	103.15	111.36
36	BA	669	G	C2'-C3'-O3'	-7.53	102.41	113.70
42	BG	15	VAL	N-CA-C	7.51	118.25	110.36
52	BT	108	ARG	N-CA-C	-7.51	103.96	113.72
17	AQ	67	LYS	N-CA-C	-7.49	100.66	110.33
20	CT	94	ALA	N-CA-C	-7.48	104.55	112.93
25	AZ	137	LYS	N-CA-C	-7.48	103.16	113.56
1	AA	1049	U	C2'-C3'-O3'	7.47	120.70	109.50
34	D8	54	GLU	N-CA-C	-7.46	103.28	112.38
48	BP	30	THR	N-CA-C	7.45	120.19	108.79
32	D6	45	LYS	N-CA-C	7.44	121.18	110.10
57	BY	55	TYR	CA-C-N	7.42	129.11	119.84
57	BY	55	TYR	C-N-CA	7.42	129.11	119.84
53	BU	28	ARG	N-CA-C	-7.41	104.23	113.20
57	DY	59	GLY	N-CA-C	7.41	121.42	110.60
48	DP	30	THR	N-CA-C	7.40	120.12	108.79
29	D3	26	LEU	N-CA-C	-7.39	102.91	110.97
57	DY	55	TYR	CA-C-N	7.39	129.08	119.84
57	DY	55	TYR	C-N-CA	7.39	129.08	119.84
20	AT	94	ALA	N-CA-C	-7.39	104.65	112.93
48	BP	40	SER	N-CA-C	-7.39	95.06	110.80
48	DP	121	LYS	CA-C-N	7.39	129.07	119.84
48	DP	121	LYS	C-N-CA	7.39	129.07	119.84
56	BX	37	THR	N-CA-C	-7.38	103.90	113.12
48	DP	53	GLY	N-CA-C	-7.36	95.73	113.18
1	CA	1399	C	C2'-C3'-O3'	7.36	120.54	109.50
42	BG	85	GLY	N-CA-C	-7.35	99.42	112.22
36	DA	1495	A	N9-C1'-C2'	7.35	123.03	112.00
48	BP	53	GLY	N-CA-C	-7.35	95.75	113.18
48	DP	101	VAL	N-CA-C	-7.35	103.36	110.42
58	DZ	16	SER	N-CA-C	-7.35	104.84	113.88
32	B6	45	LYS	N-CA-C	7.34	121.04	110.10
28	B2	62	THR	N-CA-C	-7.33	103.31	111.82
26	B0	28	GLY	N-CA-C	-7.33	104.93	115.27
29	B3	47	VAL	N-CA-C	-7.33	105.96	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	B6	6	ARG	CB-CA-C	-7.33	108.13	116.63
58	DZ	129	SER	CA-C-N	7.33	129.00	119.84
58	DZ	129	SER	C-N-CA	7.33	129.00	119.84
5	AE	25	ARG	N-CA-C	-7.32	97.02	109.24
1	AA	1050	G	N9-C1'-C2'	-7.32	101.03	112.00
52	DT	108	ARG	N-CA-C	-7.30	104.23	113.72
29	B3	26	LEU	N-CA-C	-7.30	103.02	110.97
17	CQ	67	LYS	N-CA-C	-7.28	100.94	110.33
4	CD	198	VAL	N-CA-C	7.28	118.30	108.11
36	BA	2405	G	N9-C1'-C2'	7.27	122.91	112.00
53	BU	40	PHE	N-CA-C	-7.27	103.39	111.82
36	DA	2405	G	N9-C1'-C2'	7.27	122.91	112.00
25	AZ	77	TYR	N-CA-C	7.26	120.39	108.99
53	BU	8	VAL	N-CA-C	7.26	118.90	110.62
36	DA	669	G	C2'-C3'-O3'	-7.25	102.83	113.70
48	BP	101	VAL	N-CA-C	-7.24	103.41	110.72
36	BA	1495	A	N9-C1'-C2'	7.23	122.85	112.00
36	BA	2346	A	N9-C1'-C2'	7.23	124.85	114.00
58	BZ	72	ARG	N-CA-C	-7.22	103.92	114.39
49	DQ	72	LYS	CA-C-N	7.22	128.87	119.84
49	DQ	72	LYS	C-N-CA	7.22	128.87	119.84
39	BD	212	SER	N-CA-C	-7.21	103.46	111.82
47	BO	66	LYS	N-CA-C	-7.20	104.46	113.18
47	DO	105	GLU	N-CA-C	-7.20	102.62	111.33
49	DQ	74	TYR	N-CA-C	-7.20	101.03	110.53
1	AA	508	C	C2'-C3'-O3'	7.20	120.30	109.50
51	DS	54	LEU	N-CA-C	-7.20	103.43	111.71
10	CJ	28	ARG	N-CA-C	-7.18	103.14	110.97
36	BA	1300	U	C2'-C3'-O3'	7.18	120.27	109.50
48	DP	137	LYS	N-CA-C	-7.18	104.33	113.23
4	CD	9	CYS	N-CA-C	-7.17	104.47	112.57
1	AA	484	G	C2'-C3'-O3'	7.16	120.25	109.50
53	DU	28	ARG	N-CA-C	-7.16	104.53	113.20
25	AZ	278	GLN	N-CA-C	7.15	118.86	111.14
32	D6	6	ARG	CB-CA-C	-7.14	108.35	116.63
1	CA	1050	G	N9-C1'-C2'	-7.14	101.29	112.00
1	CA	508	C	C2'-C3'-O3'	7.13	120.19	109.50
58	DZ	131	ARG	N-CA-C	-7.13	104.21	113.12
4	AD	9	CYS	N-CA-C	-7.12	104.52	112.57
1	CA	1280	A	C2'-C3'-O3'	7.12	120.18	109.50
46	BN	34	LEU	N-CA-C	-7.11	103.72	113.18
15	AO	50	HIS	N-CA-C	7.10	118.91	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	CC	139	GLN	N-CA-C	-7.10	103.47	111.07
10	AJ	28	ARG	N-CA-C	-7.09	103.24	110.97
36	DA	2756	U	C2'-C3'-O3'	7.08	120.12	109.50
57	BY	59	GLY	N-CA-C	7.07	120.92	110.60
1	CA	484	G	C2'-C3'-O3'	7.07	120.11	109.50
52	BT	6	LEU	N-CA-C	-7.07	104.63	113.18
34	B8	54	GLU	N-CA-C	-7.06	103.76	112.38
58	BZ	62	PRO	N-CA-C	-7.06	104.88	113.98
40	DE	21	VAL	N-CA-C	7.06	114.98	109.19
43	BH	117	PRO	N-CA-C	7.05	117.24	110.47
25	CZ	77	TYR	N-CA-C	7.05	120.06	108.99
3	AC	63	ASN	N-CA-C	-7.04	99.02	108.74
25	AZ	231	ILE	N-CA-C	7.04	119.35	108.44
5	AE	127	ASN	CA-C-N	7.04	128.64	119.84
5	AE	127	ASN	C-N-CA	7.04	128.64	119.84
48	DP	40	SER	N-CA-C	-7.04	95.82	110.80
42	BG	136	ARG	N-CA-C	-7.03	104.97	113.97
51	BS	44	LYS	N-CA-C	-7.03	104.34	113.12
4	AD	208	SER	N-CA-C	-7.02	104.19	112.89
50	BR	17	ARG	N-CA-C	-7.01	102.20	111.24
27	D1	30	VAL	N-CA-C	7.01	123.91	109.34
11	CK	82	VAL	N-CA-C	7.00	117.67	110.05
1	AA	1280	A	C2'-C3'-O3'	6.99	119.99	109.50
36	BA	790	C	C2'-C3'-O3'	6.99	119.99	109.50
15	CO	50	HIS	N-CA-C	6.99	118.79	111.03
51	BS	102	ALA	N-CA-C	-6.99	101.52	110.19
10	AJ	14	LYS	N-CA-C	-6.98	102.77	112.12
8	CH	68	ARG	N-CA-C	-6.98	101.33	110.33
4	CD	208	SER	N-CA-C	-6.97	103.44	112.23
48	BP	137	LYS	N-CA-C	-6.97	104.58	113.23
28	B2	7	ARG	N-CA-C	-6.97	103.69	111.28
1	AA	1239	A	C2'-C3'-O3'	6.96	119.94	109.50
58	BZ	75	ASN	N-CA-C	-6.96	99.86	110.30
25	AZ	201	GLU	N-CA-C	-6.95	103.90	112.38
1	AA	7	G	N9-C1'-C2'	6.94	122.41	112.00
28	B2	46	GLN	N-CA-C	6.94	120.31	107.60
43	DH	117	PRO	N-CA-C	6.94	117.13	110.47
36	BA	2756	U	C2'-C3'-O3'	6.93	119.90	109.50
43	DH	165	ALA	N-CA-C	-6.93	104.82	113.28
25	CZ	278	GLN	N-CA-C	6.92	118.62	111.14
51	DS	102	ALA	N-CA-C	-6.92	101.60	110.19
47	DO	22	ILE	N-CA-C	-6.92	104.97	111.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AB	132	LYS	N-CA-C	-6.92	103.76	111.71
36	BA	1060	U	C2'-C3'-O3'	6.91	119.87	109.50
51	DS	44	LYS	N-CA-C	-6.91	104.48	113.12
1	CA	1239	A	C2'-C3'-O3'	6.91	119.86	109.50
48	BP	85	LEU	N-CA-C	-6.89	103.87	113.37
1	AA	495	A	C2'-C3'-O3'	6.87	119.81	109.50
48	BP	99	LEU	N-CA-C	-6.85	103.26	111.69
34	D8	11	LYS	N-CA-C	-6.83	103.45	112.34
36	DA	1060	U	C2'-C3'-O3'	6.83	119.75	109.50
40	BE	21	VAL	N-CA-C	6.83	114.79	109.19
2	AB	23	ARG	N-CA-C	-6.82	104.53	112.92
58	DZ	155	LEU	N-CA-C	6.82	117.64	108.23
48	DP	54	GLY	N-CA-C	-6.80	105.80	114.37
8	AH	103	VAL	N-CA-C	6.80	118.21	109.30
51	BS	54	LEU	N-CA-C	-6.80	103.89	111.71
58	BZ	157	LEU	CA-C-N	6.80	127.39	120.38
58	BZ	157	LEU	C-N-CA	6.80	127.39	120.38
10	AJ	22	LYS	N-CA-C	-6.80	105.10	113.19
52	DT	6	LEU	N-CA-C	-6.79	104.96	113.18
10	CJ	22	LYS	N-CA-C	-6.79	105.11	113.19
50	DR	54	LEU	N-CA-C	-6.78	105.00	113.28
14	AN	13	THR	CA-C-N	6.78	128.32	119.84
14	AN	13	THR	C-N-CA	6.78	128.32	119.84
1	AA	1399	C	C2'-C3'-O3'	6.77	119.66	109.50
1	AA	79	G	C2'-C3'-O3'	6.76	119.65	109.50
1	CA	1049	U	C2'-C3'-O3'	6.76	119.65	109.50
5	CE	127	ASN	CA-C-N	6.75	128.28	119.84
5	CE	127	ASN	C-N-CA	6.75	128.28	119.84
3	CC	63	ASN	N-CA-C	-6.74	99.44	108.74
27	D1	25	LYS	N-CA-C	-6.74	104.01	111.36
2	CB	23	ARG	N-CA-C	-6.74	104.63	112.92
29	B3	48	GLU	N-CA-C	-6.74	103.86	111.07
42	DG	166	ASP	N-CA-C	6.73	119.47	111.33
1	CA	79	G	C2'-C3'-O3'	6.72	119.58	109.50
50	BR	54	LEU	N-CA-C	-6.72	105.08	113.28
39	BD	177	LEU	CA-C-N	6.72	128.24	119.84
39	BD	177	LEU	C-N-CA	6.72	128.24	119.84
53	DU	40	PHE	N-CA-C	-6.72	104.03	111.82
1	AA	961	U	N1-C1'-C2'	-6.71	101.93	112.00
36	DA	1300	U	C2'-C3'-O3'	6.71	119.56	109.50
1	AA	992	U	C2'-C3'-O3'	6.70	119.55	109.50
1	CA	1285	A	C2'-C3'-O3'	6.70	119.55	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	BQ	72	LYS	CA-C-N	6.70	128.21	119.84
49	BQ	72	LYS	C-N-CA	6.70	128.21	119.84
46	DN	114	ARG	N-CA-C	-6.69	103.60	111.03
55	BW	66	GLU	N-CA-C	6.69	119.43	111.33
26	D0	28	GLY	N-CA-C	-6.69	105.84	115.27
27	D1	4	VAL	N-CA-C	6.69	117.25	107.75
48	DP	99	LEU	N-CA-C	-6.68	103.47	111.69
14	CN	13	THR	CA-C-N	6.68	128.19	119.84
14	CN	13	THR	C-N-CA	6.68	128.19	119.84
58	BZ	124	ILE	N-CA-C	6.67	117.95	108.42
36	DA	2346	A	N9-C1'-C2'	6.66	123.99	114.00
39	BD	171	ASP	N-CA-C	-6.66	105.23	113.15
47	DO	47	ILE	CA-C-N	6.66	128.16	119.84
47	DO	47	ILE	C-N-CA	6.66	128.16	119.84
3	AC	183	ASP	N-CA-C	-6.65	101.59	110.24
41	BF	41	LEU	N-CA-C	-6.65	105.03	113.01
40	BE	103	ASP	N-CA-C	-6.65	101.95	110.53
1	CA	992	U	C2'-C3'-O3'	6.65	119.47	109.50
36	DA	752	A	C2'-C3'-O3'	6.65	119.47	109.50
1	CA	961	U	N1-C1'-C2'	-6.64	102.03	112.00
13	AM	79	LYS	N-CA-C	-6.64	105.22	113.38
41	BF	113	ALA	N-CA-C	-6.64	105.05	113.01
1	AA	115	G	C2'-C3'-O3'	6.63	119.45	109.50
1	CA	7	G	N9-C1'-C2'	6.63	121.95	112.00
5	CE	25	ARG	N-CA-C	-6.63	97.55	108.76
1	CA	1053	G	C2'-C3'-O3'	6.63	123.64	113.70
25	CZ	201	GLU	N-CA-C	-6.62	104.30	112.38
1	AA	64	G	C2'-C3'-O3'	-6.62	103.77	113.70
2	CB	132	LYS	N-CA-C	-6.62	104.10	111.71
41	DF	80	ALA	CA-C-N	6.61	128.11	119.84
41	DF	80	ALA	C-N-CA	6.61	128.11	119.84
49	BQ	14	ARG	N-CA-C	6.61	119.31	111.71
34	B8	11	LYS	N-CA-C	-6.60	103.76	112.34
11	AK	102	GLY	N-CA-C	-6.60	105.18	115.67
11	CK	68	ALA	N-CA-C	-6.58	103.94	112.23
16	AP	71	ARG	N-CA-C	-6.57	103.22	111.11
41	DF	41	LEU	N-CA-C	-6.57	105.12	113.01
39	DD	171	ASP	N-CA-C	-6.57	105.33	113.15
58	DZ	36	LYS	N-CA-C	6.56	120.73	110.17
39	DD	212	SER	N-CA-C	-6.56	104.21	111.82
43	BH	50	VAL	N-CA-C	6.55	117.79	108.42
14	AN	36	PHE	N-CA-C	6.55	119.26	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B3	20	LYS	N-CA-C	-6.55	105.15	113.01
36	DA	781	A	C4'-C3'-O3'	-6.55	103.18	113.00
46	BN	114	ARG	N-CA-C	-6.54	103.77	111.03
11	AK	68	ALA	N-CA-C	-6.54	103.99	112.23
28	B2	39	ALA	N-CA-C	-6.53	105.30	113.20
28	B2	16	LEU	N-CA-C	6.53	124.70	110.80
2	AB	226	ARG	N-CA-C	-6.52	103.45	111.40
4	CD	140	VAL	N-CA-C	6.51	118.07	109.21
8	CH	103	VAL	N-CA-C	6.51	117.83	109.30
29	D3	48	GLU	N-CA-C	-6.51	104.11	111.07
27	D1	50	ARG	N-CA-C	6.50	119.01	108.34
43	BH	165	ALA	N-CA-C	-6.50	105.34	113.28
1	CA	968	A	C2'-C3'-O3'	6.50	119.25	109.50
10	CJ	14	LYS	N-CA-C	-6.49	103.42	112.12
36	DA	790	C	C2'-C3'-O3'	6.49	119.24	109.50
2	CB	226	ARG	N-CA-C	-6.49	103.48	111.40
55	DW	66	GLU	N-CA-C	6.49	119.18	111.33
52	BT	30	VAL	N-CA-C	6.49	122.83	109.34
38	BC	180	PHE	CA-C-N	6.48	127.05	120.38
38	BC	180	PHE	C-N-CA	6.48	127.05	120.38
1	AA	1285	A	C2'-C3'-O3'	6.47	119.21	109.50
52	DT	93	ARG	N-CA-C	-6.46	104.46	112.47
43	BH	79	VAL	N-CA-C	-6.45	107.21	113.53
41	BF	80	ALA	CA-C-N	6.45	127.90	119.84
41	BF	80	ALA	C-N-CA	6.45	127.90	119.84
13	CM	79	LYS	N-CA-C	-6.44	105.46	113.38
3	AC	139	GLN	N-CA-C	-6.43	104.19	111.07
20	CT	53	LEU	N-CA-C	-6.43	104.28	111.28
56	DX	5	TYR	N-CA-C	-6.42	105.26	113.23
43	DH	79	VAL	N-CA-C	-6.42	107.24	113.53
2	AB	86	GLU	N-CA-C	-6.41	104.21	111.07
36	BA	352	G	N9-C1'-C2'	6.41	121.62	112.00
38	BC	88	GLU	N-CA-C	-6.41	105.28	113.23
7	AG	87	VAL	CA-C-N	6.40	127.84	119.84
7	AG	87	VAL	C-N-CA	6.40	127.84	119.84
1	CA	495	A	C2'-C3'-O3'	6.40	119.09	109.50
42	BG	30	GLU	N-CA-C	-6.39	104.59	112.38
12	AL	61	THR	N-CA-C	-6.39	105.20	112.87
11	CK	102	GLY	N-CA-C	-6.39	105.52	115.67
38	DC	124	GLY	N-CA-C	-6.38	104.68	115.34
15	AO	68	ARG	N-CA-C	-6.37	104.43	111.82
48	DP	86	LYS	N-CA-C	-6.37	102.86	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	58	ALA	N-CA-C	-6.36	103.63	111.33
42	BG	93	THR	N-CA-C	6.36	118.92	110.53
58	BZ	21	ALA	N-CA-C	-6.36	104.04	110.97
48	BP	27	HIS	N-CA-C	6.36	118.61	109.14
48	DP	27	HIS	N-CA-C	6.36	117.82	108.86
36	BA	243	U	N1-C1'-C2'	6.35	121.53	112.00
3	CC	183	ASP	N-CA-C	-6.35	101.98	110.24
38	BC	83	ILE	N-CA-C	-6.35	104.08	111.00
4	AD	140	VAL	N-CA-C	6.35	117.84	109.21
47	BO	105	GLU	N-CA-C	-6.35	103.63	111.75
47	BO	47	ILE	CA-C-N	6.35	127.77	119.84
47	BO	47	ILE	C-N-CA	6.35	127.77	119.84
34	D8	23	VAL	N-CA-C	6.34	116.72	108.35
11	AK	82	VAL	N-CA-C	6.33	118.29	109.55
10	CJ	75	ILE	N-CA-C	6.33	116.37	110.42
36	BA	332	A	C2'-C3'-O3'	6.33	118.99	109.50
48	DP	17	LYS	N-CA-C	6.33	120.12	111.39
52	BT	93	ARG	N-CA-C	-6.32	104.63	112.47
1	AA	1498	U	C4'-C3'-O3'	6.32	118.88	109.40
40	DE	106	GLY	N-CA-C	6.32	122.73	110.73
42	DG	88	ILE	N-CA-C	6.32	118.84	108.99
43	BH	89	ILE	N-CA-C	6.31	117.32	107.28
56	BX	44	GLU	N-CA-C	-6.31	105.61	113.38
4	AD	171	GLY	CA-C-N	6.31	127.73	119.84
4	AD	171	GLY	C-N-CA	6.31	127.73	119.84
37	BB	56	G	C2'-C3'-O3'	6.31	118.96	109.50
36	BA	752	A	C2'-C3'-O3'	6.30	118.95	109.50
16	CP	70	ALA	N-CA-C	-6.30	103.95	111.69
27	D1	66	HIS	N-CA-C	-6.30	102.85	112.99
48	DP	85	LEU	N-CA-C	-6.30	104.68	113.37
1	CA	115	G	C2'-C3'-O3'	6.29	118.94	109.50
38	BC	124	GLY	N-CA-C	-6.29	104.84	115.34
42	BG	77	ILE	N-CA-C	6.28	116.43	106.32
11	AK	126	ARG	N-CA-C	-6.28	105.72	113.19
51	DS	79	ALA	N-CA-C	-6.27	104.43	113.21
56	BX	5	TYR	N-CA-C	-6.26	105.46	113.23
27	D1	73	LEU	N-CA-C	-6.26	97.47	110.80
16	AP	72	ARG	N-CA-C	6.26	117.76	111.07
4	CD	32	ALA	N-CA-C	-6.26	97.47	110.80
39	DD	136	ILE	CA-C-N	6.25	127.66	119.84
39	DD	136	ILE	C-N-CA	6.25	127.66	119.84
27	B1	9	GLY	N-CA-C	-6.25	106.28	115.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D3	20	LYS	N-CA-C	-6.25	105.75	113.19
32	B6	13	CYS	N-CA-C	6.25	119.33	110.14
41	BF	161	GLU	N-CA-C	-6.24	103.78	111.33
48	BP	17	LYS	N-CA-C	6.24	120.25	111.52
43	DH	50	VAL	N-CA-C	6.23	117.33	108.42
56	DX	44	GLU	N-CA-C	-6.23	105.72	113.38
39	BD	136	ILE	N-CA-C	6.22	114.05	107.76
20	CT	14	LYS	N-CA-C	-6.22	103.81	111.33
32	D6	38	LYS	N-CA-C	6.21	118.72	109.59
1	CA	64	G	C2'-C3'-O3'	-6.21	104.39	113.70
58	BZ	131	ARG	N-CA-C	-6.20	103.84	112.45
2	CB	86	GLU	N-CA-C	-6.19	104.45	111.07
38	DC	88	GLU	N-CA-C	-6.18	105.56	113.23
52	BT	29	ARG	N-CA-C	6.17	123.95	110.80
26	D0	26	TYR	N-CA-C	6.17	116.23	108.45
36	DA	387	U	C2'-C3'-O3'	6.17	118.76	109.50
40	BE	11	MET	N-CA-C	6.17	118.45	109.07
5	CE	58	ALA	N-CA-C	-6.17	103.71	111.11
18	CR	51	LEU	CA-C-N	6.17	126.65	119.99
18	CR	51	LEU	C-N-CA	6.17	126.65	119.99
32	B6	38	LYS	N-CA-C	6.16	118.65	109.59
36	DA	352	G	N9-C1'-C2'	6.16	121.24	112.00
39	DD	177	LEU	CA-C-N	6.16	127.54	119.84
39	DD	177	LEU	C-N-CA	6.16	127.54	119.84
48	BP	86	LYS	N-CA-C	-6.16	103.18	112.04
1	AA	243	A	C4'-C3'-O3'	6.14	118.62	109.40
4	CD	171	GLY	CA-C-N	6.14	127.52	119.84
4	CD	171	GLY	C-N-CA	6.14	127.52	119.84
40	DE	65	GLY	N-CA-C	-6.14	105.14	113.37
20	CT	91	LEU	N-CA-C	-6.14	105.69	113.43
19	AS	19	VAL	CB-CA-C	-6.14	106.49	111.71
6	CF	43	LEU	N-CA-C	-6.14	105.77	113.20
42	BG	60	LEU	N-CA-C	-6.13	104.38	112.72
18	CR	35	ARG	N-CA-C	6.13	120.79	113.12
19	CS	19	VAL	CB-CA-C	-6.12	106.51	111.71
42	DG	141	PHE	CA-C-N	6.12	126.01	119.28
42	DG	141	PHE	C-N-CA	6.12	126.01	119.28
28	B2	29	LYS	N-CA-C	-6.12	104.61	111.28
1	CA	652	U	N1-C1'-C2'	6.12	121.17	112.00
40	BE	65	GLY	N-CA-C	-6.11	105.18	113.37
1	CA	1416	G	C3'-C2'-O2'	6.11	119.87	110.70
50	DR	77	ARG	N-CA-C	-6.11	103.56	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	B8	23	VAL	N-CA-C	6.11	116.41	108.35
27	B1	78	LYS	N-CA-C	-6.11	105.09	112.54
4	AD	32	ALA	N-CA-C	-6.10	97.80	110.80
49	DQ	123	HIS	N-CA-C	-6.10	104.91	112.90
31	D5	31	VAL	CA-C-N	6.10	127.46	119.84
31	D5	31	VAL	C-N-CA	6.10	127.46	119.84
1	AA	792	A	C2'-C3'-O3'	6.10	118.64	109.50
52	DT	29	ARG	N-CA-C	6.09	123.78	110.80
49	BQ	43	THR	N-CA-C	6.09	118.65	108.96
36	BA	784	A	N9-C1'-C2'	6.09	121.14	112.00
13	CM	63	THR	CB-CA-C	-6.09	106.79	114.40
40	DE	158	GLY	N-CA-C	6.09	119.39	110.80
49	DQ	100	GLY	N-CA-C	-6.08	106.37	114.95
12	CL	43	VAL	N-CA-C	6.08	117.45	108.45
15	AO	71	GLN	N-CA-C	-6.08	105.12	112.54
36	DA	243	U	N1-C1'-C2'	6.08	121.12	112.00
3	CC	59	ARG	N-CA-C	6.08	118.36	108.76
1	CA	202	U	C2'-C3'-O3'	6.07	118.61	109.50
37	DB	56	G	C2'-C3'-O3'	6.07	118.61	109.50
51	BS	56	LEU	N-CA-C	-6.07	104.52	112.41
10	AJ	75	ILE	N-CA-C	6.06	116.12	110.42
49	BQ	8	LYS	N-CA-C	-6.06	106.21	113.97
42	DG	59	GLU	N-CA-C	-6.06	104.67	111.28
52	DT	30	VAL	N-CA-C	6.06	121.95	109.34
25	CZ	94	THR	N-CA-C	-6.06	105.15	112.54
36	DA	1427	A	C2'-C3'-O3'	6.06	118.59	109.50
5	AE	48	ALA	N-CA-C	6.05	113.67	108.22
42	BG	57	ALA	N-CA-C	-6.05	104.76	111.36
48	BP	62	LEU	CA-C-N	6.05	127.41	119.84
48	BP	62	LEU	C-N-CA	6.05	127.41	119.84
51	BS	79	ALA	N-CA-C	-6.05	104.73	113.21
41	DF	161	GLU	N-CA-C	-6.05	104.01	111.33
15	CO	71	GLN	N-CA-C	-6.05	105.16	112.54
41	BF	154	VAL	N-CA-C	6.05	117.00	108.17
16	AP	70	ALA	N-CA-C	-6.05	104.25	111.69
36	DA	2126	A	C2'-C3'-O3'	6.04	118.56	109.50
40	BE	158	GLY	N-CA-C	6.04	119.32	110.80
1	CA	7	G	C4'-C3'-O3'	-6.04	103.94	113.00
20	AT	14	LYS	N-CA-C	-6.03	104.03	111.33
20	AT	91	LEU	N-CA-C	-6.03	105.84	113.43
40	DE	103	ASP	N-CA-C	-6.03	102.75	110.53
12	AL	7	ILE	N-CA-C	-6.03	104.64	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	D7	27	GLY	N-CA-C	-6.02	105.51	112.50
52	DT	125	ARG	N-CA-C	-6.02	105.79	113.02
58	DZ	88	PHE	N-CA-C	6.02	118.22	108.41
36	DA	332	A	C2'-C3'-O3'	6.02	118.53	109.50
42	BG	44	GLY	N-CA-C	-6.01	107.53	114.69
32	D6	40	CYS	CA-C-N	6.01	126.84	120.11
32	D6	40	CYS	C-N-CA	6.01	126.84	120.11
28	B2	5	GLU	N-CA-C	-6.00	105.22	112.54
58	BZ	158	PRO	N-CA-C	6.00	118.02	110.70
52	DT	14	TYR	N-CA-C	-6.00	106.94	114.56
36	BA	781	A	C4'-C3'-O3'	-6.00	104.00	113.00
56	BX	18	TYR	N-CA-C	-6.00	103.91	111.11
33	B7	47	ARG	N-CA-C	5.99	118.52	109.23
8	AH	68	ARG	N-CA-C	-5.99	102.60	110.33
4	AD	11	LEU	N-CA-C	-5.99	105.97	113.28
36	BA	1427	A	C2'-C3'-O3'	5.98	118.47	109.50
28	D2	37	PHE	N-CA-C	-5.98	104.14	112.45
7	CG	148	ASN	N-CA-C	-5.97	105.30	112.59
1	AA	7	G	C4'-C3'-O3'	-5.97	104.04	113.00
11	AK	80	VAL	N-CA-C	5.97	116.47	108.11
27	D1	43	TYR	N-CA-C	5.97	118.14	109.84
43	DH	89	ILE	N-CA-C	5.97	116.77	107.28
34	B8	34	TRP	N-CA-C	-5.97	98.08	110.80
20	AT	17	ARG	N-CA-C	-5.97	104.69	111.07
20	AT	52	ALA	N-CA-C	-5.97	104.12	112.12
41	DF	154	VAL	N-CA-C	5.96	116.88	108.17
49	BQ	123	HIS	N-CA-C	-5.96	105.09	112.90
1	AA	1053	G	C2'-C3'-O3'	5.96	122.64	113.70
1	CA	1124	G	N9-C1'-C2'	5.96	120.94	112.00
20	AT	53	LEU	N-CA-C	-5.95	104.79	111.28
36	BA	2580	U	C4'-C3'-O3'	-5.95	104.07	113.00
20	CT	17	ARG	N-CA-C	-5.95	104.70	111.07
46	DN	131	GLN	N-CA-C	5.95	117.89	108.67
51	DS	56	LEU	N-CA-C	-5.95	104.68	112.41
41	DF	113	ALA	N-CA-C	-5.95	105.88	113.01
17	AQ	57	VAL	N-CA-C	5.94	117.73	109.29
4	CD	11	LEU	N-CA-C	-5.94	106.07	113.38
16	CP	72	ARG	N-CA-C	5.94	117.43	111.07
48	DP	29	LYS	N-CA-C	-5.94	99.31	109.24
49	DQ	8	LYS	N-CA-C	-5.94	106.36	113.97
34	D8	34	TRP	N-CA-C	-5.94	98.15	110.80
19	AS	22	LEU	N-CA-C	-5.94	105.88	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	B0	35	ASN	N-CA-C	-5.94	102.52	110.24
47	BO	112	MET	N-CA-C	5.94	117.44	110.97
41	BF	29	ASN	CA-C-N	5.93	125.41	119.24
41	BF	29	ASN	C-N-CA	5.93	125.41	119.24
47	DO	81	ASP	N-CA-C	5.93	118.16	108.55
58	BZ	16	SER	N-CA-C	-5.93	106.59	113.88
9	CI	99	LEU	N-CA-C	-5.93	101.27	110.10
35	D9	29	ASN	CA-C-N	5.92	125.60	119.56
35	D9	29	ASN	C-N-CA	5.92	125.60	119.56
32	B6	40	CYS	CA-C-N	5.92	126.74	120.11
32	B6	40	CYS	C-N-CA	5.92	126.74	120.11
36	BA	2126	A	C2'-C3'-O3'	5.92	118.39	109.50
35	B9	29	ASN	CA-C-N	5.92	125.60	119.56
35	B9	29	ASN	C-N-CA	5.92	125.60	119.56
40	DE	11	MET	N-CA-C	5.92	118.07	109.07
18	CR	27	GLY	N-CA-C	-5.92	105.69	112.79
36	DA	1820	U	C4'-C3'-O3'	5.92	118.27	109.40
17	AQ	33	GLY	N-CA-C	5.91	123.39	115.59
41	BF	20	LEU	N-CA-C	5.91	117.89	107.61
56	DX	18	TYR	N-CA-C	-5.90	104.03	111.11
1	AA	1124	G	N9-C1'-C2'	5.90	120.85	112.00
49	BQ	133	ARG	CB-CA-C	-5.90	107.92	116.54
1	AA	687	A	C2'-C3'-O3'	5.90	118.34	109.50
52	BT	14	TYR	N-CA-C	-5.89	107.07	114.56
49	DQ	133	ARG	CB-CA-C	-5.89	107.93	116.54
31	B5	31	VAL	CA-C-N	5.89	127.21	119.84
31	B5	31	VAL	C-N-CA	5.89	127.21	119.84
55	DW	46	PHE	N-CA-C	5.89	117.70	111.28
1	AA	1504	G	C2'-C3'-O3'	5.89	118.33	109.50
18	AR	27	GLY	N-CA-C	-5.89	105.73	112.79
36	DA	1952	A	N9-C1'-C2'	5.89	120.83	112.00
1	AA	202	U	C2'-C3'-O3'	5.88	118.32	109.50
55	DW	51	LEU	N-CA-C	-5.88	105.11	112.93
1	AA	30	U	C2'-C3'-O3'	5.88	118.31	109.50
32	D6	37	ARG	N-CA-C	5.88	117.41	108.07
39	BD	251	GLY	N-CA-C	5.87	122.86	114.64
3	CC	124	ILE	N-CA-C	-5.87	104.60	111.00
10	AJ	6	ILE	N-CA-C	5.87	116.39	108.17
38	DC	180	PHE	CA-C-N	5.87	126.42	120.38
38	DC	180	PHE	C-N-CA	5.87	126.42	120.38
42	DG	160	VAL	N-CA-C	5.87	117.20	108.46
36	DA	784	A	N9-C1'-C2'	5.86	120.79	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	DZ	69	THR	N-CA-C	5.86	116.82	108.74
4	AD	193	ASP	N-CA-C	-5.85	104.81	111.07
26	B0	26	TYR	N-CA-C	5.85	115.82	108.45
15	CO	68	ARG	N-CA-C	-5.85	105.04	111.82
1	AA	498	U	N1-C1'-C2'	-5.84	105.23	114.00
28	B2	14	ARG	N-CA-C	5.84	119.51	112.38
36	DA	49	A	C2'-C3'-O3'	5.84	118.26	109.50
1	CA	792	A	C2'-C3'-O3'	5.84	118.26	109.50
46	BN	131	GLN	N-CA-C	5.84	117.72	108.67
1	CA	55	A	N9-C1'-C2'	5.84	122.76	114.00
1	CA	1507	A	C2'-C3'-O3'	-5.84	104.94	113.70
48	DP	62	LEU	CA-C-N	5.83	127.13	119.84
48	DP	62	LEU	C-N-CA	5.83	127.13	119.84
39	DD	136	ILE	N-CA-C	5.83	113.65	107.76
39	BD	136	ILE	CA-C-N	5.83	127.12	119.84
39	BD	136	ILE	C-N-CA	5.83	127.12	119.84
1	CA	687	A	C2'-C3'-O3'	5.83	118.24	109.50
49	DQ	14	ARG	N-CA-C	5.83	118.41	111.71
16	CP	76	GLN	N-CA-C	-5.82	104.89	112.23
51	DS	57	LYS	N-CA-C	-5.82	106.57	113.38
12	AL	43	VAL	N-CA-C	5.82	117.06	108.45
16	AP	76	GLN	N-CA-C	-5.82	104.90	112.23
36	BA	2477	C	N1-C1'-C2'	5.82	120.72	112.00
1	CA	498	U	N1-C1'-C2'	-5.81	105.29	114.00
19	CS	22	LEU	N-CA-C	-5.80	106.04	113.01
36	DA	748	G	N9-C1'-C2'	5.80	120.70	112.00
36	DA	1669	A	N9-C1'-C2'	5.80	120.70	112.00
58	BZ	26	GLY	N-CA-C	-5.80	104.31	112.60
11	AK	116	HIS	N-CA-C	-5.80	103.46	111.81
29	B3	24	LYS	N-CA-C	-5.79	105.38	113.37
1	CA	30	U	C2'-C3'-O3'	5.79	118.18	109.50
48	BP	116	GLY	N-CA-C	5.79	118.77	112.29
49	BQ	100	GLY	N-CA-C	-5.78	106.80	114.95
55	BW	46	PHE	N-CA-C	5.78	117.58	111.28
36	BA	387	U	C2'-C3'-O3'	5.78	118.17	109.50
40	BE	74	PRO	N-CA-C	5.78	120.08	111.41
26	D0	35	ASN	N-CA-C	-5.78	102.72	110.24
42	DG	56	ALA	N-CA-C	-5.78	105.99	113.16
40	DE	102	VAL	N-CA-C	5.78	116.26	108.17
1	AA	974	A	C2'-C3'-O3'	-5.77	100.84	109.50
6	AF	43	LEU	N-CA-C	-5.77	106.22	113.20
47	BO	55	GLY	N-CA-C	5.77	122.71	115.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BA	2282	G	C4'-C3'-O3'	5.77	118.05	109.40
1	CA	428	G	C2'-C3'-O3'	5.76	118.14	109.50
36	BA	1541	G	C2'-C3'-O3'	5.76	118.14	109.50
58	DZ	129	SER	N-CA-C	5.75	122.53	109.81
53	DU	115	ALA	N-CA-C	-5.75	104.92	111.07
36	BA	1459	G	N9-C1'-C2'	5.74	120.61	112.00
52	BT	125	ARG	N-CA-C	-5.74	106.14	113.02
4	CD	141	ARG	CA-C-N	5.73	125.74	119.90
4	CD	141	ARG	C-N-CA	5.73	125.74	119.90
1	AA	652	U	N1-C1'-C2'	5.73	120.59	112.00
11	CK	80	VAL	N-CA-C	5.72	116.12	108.11
29	D3	23	LEU	N-CA-C	-5.72	105.97	113.12
55	BW	51	LEU	N-CA-C	-5.72	105.32	112.93
32	D6	42	TRP	N-CA-C	-5.71	106.44	113.41
5	CE	90	VAL	N-CA-C	5.71	116.22	107.77
40	BE	63	LEU	N-CA-C	-5.70	104.45	111.75
7	CG	87	VAL	CA-C-N	5.70	126.97	119.84
7	CG	87	VAL	C-N-CA	5.70	126.97	119.84
1	AA	1416	G	C3'-C2'-O2'	5.70	119.25	110.70
10	AJ	85	LEU	N-CA-C	5.70	117.30	111.14
1	AA	428	G	C2'-C3'-O3'	5.70	118.04	109.50
8	AH	9	MET	N-CA-C	-5.70	104.76	110.97
36	BA	748	G	N9-C1'-C2'	5.69	120.54	112.00
34	D8	52	LYS	CA-C-N	5.69	125.31	119.56
34	D8	52	LYS	C-N-CA	5.69	125.31	119.56
58	DZ	4	ARG	N-CA-C	5.69	118.49	109.50
9	AI	99	LEU	N-CA-C	-5.69	101.62	110.10
20	CT	52	ALA	N-CA-C	-5.69	104.50	112.12
26	D0	46	LYS	CA-C-N	5.68	126.95	119.84
26	D0	46	LYS	C-N-CA	5.68	126.95	119.84
49	BQ	69	PHE	CA-C-N	5.68	126.94	119.84
49	BQ	69	PHE	C-N-CA	5.68	126.94	119.84
33	D7	47	ARG	N-CA-C	5.68	118.03	109.23
48	DP	116	GLY	N-CA-C	5.68	118.65	112.29
2	AB	56	ARG	N-CA-C	-5.67	105.09	111.28
36	BA	1052	C	C2'-C3'-O3'	5.67	118.01	109.50
41	BF	200	GLU	N-CA-C	-5.67	105.18	111.36
17	CQ	77	VAL	N-CA-C	-5.67	106.28	111.67
36	DA	1541	G	C2'-C3'-O3'	5.67	118.00	109.50
32	B6	37	ARG	N-CA-C	5.67	117.08	108.07
1	CA	243	A	C4'-C3'-O3'	5.66	117.89	109.40
18	AR	35	ARG	N-CA-C	5.66	120.19	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	BU	90	VAL	N-CA-C	5.66	121.11	109.34
1	CA	1528	U	N1-C1'-C2'	-5.66	105.51	114.00
1	AA	903	G	C3'-C2'-O2'	5.65	119.17	110.70
26	B0	46	LYS	CA-C-N	5.65	126.90	119.84
26	B0	46	LYS	C-N-CA	5.65	126.90	119.84
3	CC	70	VAL	N-CA-C	5.64	117.04	108.80
36	DA	1459	G	N9-C1'-C2'	5.64	120.46	112.00
48	DP	67	MET	N-CA-C	-5.64	98.78	110.80
42	BG	29	TRP	N-CA-C	-5.63	105.51	112.72
2	CB	56	ARG	N-CA-C	-5.63	105.15	111.28
36	DA	2689	U	C2'-C3'-O3'	5.62	117.94	109.50
29	B3	23	LEU	N-CA-C	-5.62	106.09	113.12
53	DU	90	VAL	N-CA-C	5.62	121.04	109.34
10	CJ	93	GLY	N-CA-C	-5.62	99.86	113.18
48	BP	67	MET	N-CA-C	-5.62	98.83	110.80
14	CN	42	ILE	N-CA-C	5.61	115.85	110.74
40	DE	63	LEU	N-CA-C	-5.61	104.56	111.75
49	DQ	133	ARG	N-CA-C	5.61	116.59	108.34
42	DG	103	LEU	N-CA-C	-5.61	105.26	111.71
36	BA	1301	A	C2'-C3'-O3'	5.61	117.91	109.50
20	AT	66	ALA	N-CA-C	-5.60	105.17	111.28
38	BC	14	VAL	N-CA-C	5.60	115.94	108.27
47	DO	92	GLU	CA-C-N	5.60	126.48	119.98
47	DO	92	GLU	C-N-CA	5.60	126.48	119.98
43	BH	139	GLN	N-CA-C	-5.60	106.40	113.18
36	DA	2477	C	N1-C1'-C2'	5.60	120.40	112.00
40	DE	74	PRO	N-CA-C	5.60	119.81	111.41
42	BG	59	GLU	N-CA-C	-5.59	105.18	112.23
40	BE	102	VAL	N-CA-C	5.59	116.00	108.17
42	DG	62	LEU	N-CA-C	-5.59	104.40	111.11
36	DA	675	A	C4'-C3'-O3'	-5.59	104.61	113.00
25	AZ	94	THR	N-CA-C	-5.58	105.73	112.54
47	DO	112	MET	N-CA-C	5.58	117.06	110.97
1	AA	55	A	N9-C1'-C2'	5.58	122.37	114.00
27	D1	43	TYR	CA-C-N	5.58	126.81	119.84
27	D1	43	TYR	C-N-CA	5.58	126.81	119.84
25	CZ	27	LEU	N-CA-C	-5.58	104.58	111.33
16	CP	71	ARG	N-CA-C	-5.58	104.42	111.11
27	D1	7	ILE	N-CA-C	5.58	119.94	113.42
1	CA	518	C	N1-C1'-C2'	5.57	122.36	114.00
1	CA	1251	A	N9-C1'-C2'	5.57	120.35	112.00
41	DF	20	LEU	N-CA-C	5.57	117.30	107.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	BZ	105	VAL	N-CA-C	5.57	116.12	107.99
33	D7	42	LEU	N-CA-C	-5.56	106.55	113.55
12	AL	97	ARG	N-CA-C	5.55	119.54	112.87
1	CA	935	A	N9-C1'-C2'	5.55	120.33	112.00
1	AA	1380	U	C4'-C3'-O3'	5.55	117.72	109.40
53	DU	23	GLY	N-CA-C	-5.54	107.67	115.32
38	DC	120	MET	N-CA-C	5.54	117.12	111.14
1	CA	1336	C	C2'-C3'-O3'	-5.54	105.39	113.70
12	CL	97	ARG	N-CA-C	5.54	119.51	112.87
36	BA	1669	A	N9-C1'-C2'	5.53	120.30	112.00
55	DW	56	ALA	N-CA-C	-5.53	106.61	113.19
39	BD	210	GLY	N-CA-C	-5.53	100.08	113.18
53	BU	115	ALA	N-CA-C	-5.52	105.16	111.07
16	CP	68	ASP	N-CA-C	-5.52	105.67	112.90
1	CA	1380	U	C4'-C3'-O3'	5.52	117.67	109.40
11	CK	50	TYR	N-CA-C	5.51	118.23	109.96
1	AA	968	A	C2'-C3'-O3'	5.51	117.77	109.50
36	DA	2579	C	C3'-C2'-O2'	5.51	118.97	110.70
3	AC	59	ARG	N-CA-C	5.51	117.46	108.76
42	BG	109	VAL	N-CA-C	5.51	116.28	110.72
36	DA	2580	U	C4'-C3'-O3'	-5.50	104.74	113.00
55	DW	31	GLU	N-CA-C	-5.50	105.18	111.07
15	AO	79	ARG	N-CA-C	-5.50	105.18	111.07
34	B8	52	LYS	CA-C-N	5.50	125.12	119.56
34	B8	52	LYS	C-N-CA	5.50	125.12	119.56
34	D8	14	VAL	N-CA-C	5.50	115.88	108.17
12	CL	100	ILE	N-CA-C	-5.50	104.05	110.05
42	DG	149	VAL	N-CA-C	5.50	116.20	108.17
13	AM	87	TYR	N-CA-C	-5.50	104.67	111.33
1	AA	1336	C	C2'-C3'-O3'	-5.50	105.45	113.70
58	BZ	162	GLU	N-CA-C	-5.50	106.41	113.23
2	CB	196	LEU	N-CA-C	5.50	119.98	113.16
3	AC	198	VAL	N-CA-C	5.49	116.49	108.58
47	BO	92	GLU	CA-C-N	5.49	126.35	119.98
47	BO	92	GLU	C-N-CA	5.49	126.35	119.98
53	BU	23	GLY	N-CA-C	-5.49	107.74	115.32
13	AM	63	THR	CB-CA-C	-5.49	107.54	114.40
5	AE	90	VAL	N-CA-C	5.49	115.89	107.77
46	BN	48	MET	N-CA-C	-5.48	106.29	112.87
55	BW	58	ALA	N-CA-C	-5.48	104.26	112.54
3	CC	198	VAL	N-CA-C	5.48	116.47	108.58
17	CQ	33	GLY	N-CA-C	5.48	122.83	115.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	CR	81	PHE	N-CA-C	-5.48	104.83	112.45
48	DP	97	PRO	N-CA-C	-5.48	103.55	111.22
28	D2	12	GLU	N-CA-C	-5.48	104.74	111.75
52	BT	26	ASP	N-CA-C	5.47	119.10	107.67
31	D5	46	CYS	N-CA-C	5.47	118.59	110.39
49	DQ	43	THR	N-CA-C	5.46	118.53	109.46
9	CI	53	VAL	N-CA-C	-5.46	106.15	112.98
36	DA	1909	C	C5'-C4'-C3'	-5.46	107.81	116.00
36	BA	675	A	C4'-C3'-O3'	-5.46	104.81	113.00
47	DO	25	LEU	N-CA-C	5.46	117.60	107.99
41	DF	29	ASN	CA-C-N	5.45	124.91	119.24
41	DF	29	ASN	C-N-CA	5.45	124.91	119.24
36	DA	1786	A	N9-C1'-C2'	5.45	122.17	114.00
54	DV	6	LYS	N-CA-C	5.45	117.64	107.99
36	BA	1493	C	N1-C1'-C2'	5.45	122.17	114.00
40	BE	125	GLY	CA-C-N	5.45	126.65	119.84
40	BE	125	GLY	C-N-CA	5.45	126.65	119.84
2	CB	184	VAL	N-CA-C	5.45	116.58	108.46
36	BA	2579	C	C3'-C2'-O2'	5.44	118.86	110.70
36	DA	2111	C	N1-C1'-C2'	5.44	120.17	112.00
41	DF	69	HIS	N-CA-C	5.44	124.17	113.29
48	DP	138	LEU	N-CA-C	-5.44	106.31	113.17
31	B5	46	CYS	CA-C-N	5.44	126.64	119.84
31	B5	46	CYS	C-N-CA	5.44	126.64	119.84
36	BA	1899	G	C4'-C3'-O3'	-5.44	104.84	113.00
12	CL	18	VAL	N-CA-C	5.44	120.66	109.34
3	AC	70	VAL	N-CA-C	5.44	116.74	108.80
39	DD	80	ALA	N-CA-C	-5.44	105.27	111.14
33	B7	27	GLY	N-CA-C	-5.43	106.20	112.50
15	CO	7	GLU	N-CA-C	-5.43	105.39	112.23
36	DA	1820	U	C4'-C3'-C2'	5.43	108.03	102.60
36	DA	2542	A	C2'-C3'-O3'	-5.43	105.56	113.70
10	CJ	85	LEU	N-CA-C	5.43	117.00	111.14
36	BA	1820	U	C4'-C3'-O3'	5.42	117.54	109.40
33	B7	42	LEU	N-CA-C	-5.42	106.72	113.55
36	BA	2111	C	N1-C1'-C2'	5.42	120.13	112.00
13	AM	123	ALA	CA-C-N	5.42	126.61	119.84
13	AM	123	ALA	C-N-CA	5.42	126.61	119.84
17	AQ	77	VAL	N-CA-C	-5.42	106.52	111.67
48	BP	29	LYS	N-CA-C	-5.42	100.20	109.24
2	AB	160	ASP	N-CA-C	-5.41	106.63	113.18
36	BA	1952	A	N9-C1'-C2'	5.41	120.12	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	DZ	81	ARG	N-CA-C	5.41	118.19	110.24
47	BO	81	ASP	N-CA-C	5.41	117.31	108.55
36	DA	676	A	N9-C1'-C2'	5.41	120.11	112.00
41	BF	69	HIS	N-CA-C	5.41	124.10	113.29
12	CL	47	LYS	N-CA-C	5.41	121.75	109.81
51	DS	12	PHE	N-CA-C	-5.41	106.46	113.16
6	CF	22	GLU	N-CA-C	-5.40	104.81	111.40
58	DZ	157	LEU	CA-C-N	5.40	125.95	120.38
58	DZ	157	LEU	C-N-CA	5.40	125.95	120.38
25	AZ	27	LEU	N-CA-C	-5.40	104.79	111.33
15	CO	79	ARG	N-CA-C	-5.40	105.29	111.07
36	BA	1267	U	N1-C1'-C2'	5.40	120.10	112.00
36	BA	1680	U	C4'-C3'-O3'	-5.40	104.90	113.00
38	DC	14	VAL	N-CA-C	5.40	115.66	108.27
10	CJ	6	ILE	N-CA-C	5.39	115.72	108.17
7	AG	42	ILE	CB-CA-C	-5.39	105.08	111.81
11	CK	116	HIS	N-CA-C	-5.39	104.05	111.81
36	DA	782	A	C2'-C3'-O3'	-5.39	101.42	109.50
48	DP	28	GLY	N-CA-C	-5.38	100.42	113.18
46	BN	3	THR	N-CA-C	-5.38	101.45	109.96
18	AR	51	LEU	CA-C-N	5.38	127.52	120.25
18	AR	51	LEU	C-N-CA	5.38	127.52	120.25
49	BQ	133	ARG	N-CA-C	5.38	116.25	108.34
4	AD	29	PRO	N-CA-C	-5.37	104.52	112.26
54	BV	85	LYS	N-CA-C	5.37	118.03	109.81
8	AH	106	GLY	N-CA-C	5.37	121.08	114.69
10	AJ	40	LEU	N-CA-C	5.37	118.44	109.09
48	BP	97	PRO	N-CA-C	-5.37	103.70	111.22
57	DY	60	PHE	N-CA-C	5.37	117.80	107.44
10	AJ	93	GLY	N-CA-C	-5.37	100.46	113.18
22	AV	57	G	C4'-C3'-O3'	-5.37	104.95	113.00
50	DR	66	VAL	CB-CA-C	-5.37	106.34	111.44
40	BE	36	ARG	N-CA-C	-5.37	100.77	108.60
40	DE	17	ASP	CB-CA-C	-5.36	109.94	117.23
36	BA	2476	A	N9-C1'-C2'	5.36	120.04	112.00
25	AZ	202	LEU	N-CA-C	-5.36	105.55	112.68
40	BE	106	GLY	N-CA-C	5.36	120.91	110.73
20	CT	66	ALA	N-CA-C	-5.36	105.44	111.28
54	DV	85	LYS	N-CA-C	5.36	117.55	109.41
53	BU	80	ILE	N-CA-C	-5.35	107.60	113.43
1	CA	1504	G	C2'-C3'-O3'	5.35	117.53	109.50
16	CP	9	PHE	N-CA-C	-5.35	102.54	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	CV	57	G	C4'-C3'-O3'	-5.35	104.98	113.00
49	DQ	69	PHE	CA-C-N	5.35	126.52	119.84
49	DQ	69	PHE	C-N-CA	5.35	126.52	119.84
24	AY	34	G	C1'-C2'-O2'	5.34	116.42	108.40
58	BZ	129	SER	CA-C-N	5.34	126.28	120.83
58	BZ	129	SER	C-N-CA	5.34	126.28	120.83
12	CL	61	THR	N-CA-C	-5.34	106.46	112.87
36	DA	2476	A	N9-C1'-C2'	5.34	120.01	112.00
39	DD	251	GLY	N-CA-C	5.34	122.12	114.64
38	BC	120	MET	N-CA-C	5.34	116.90	111.14
47	BO	25	LEU	N-CA-C	5.34	117.41	108.23
1	AA	1101	A	C2'-C3'-O3'	5.33	117.50	109.50
38	DC	83	ILE	N-CA-C	-5.33	104.29	111.44
7	AG	148	ASN	N-CA-C	-5.33	106.09	112.59
51	DS	84	GLN	N-CA-C	5.33	118.68	110.42
22	CW	76	A	C4'-C3'-O3'	5.33	120.99	113.00
36	BA	2689	U	C2'-C3'-O3'	5.33	117.49	109.50
38	DC	123	VAL	N-CA-C	-5.33	107.63	112.96
3	AC	155	GLY	N-CA-C	5.33	125.80	113.18
3	AC	124	ILE	N-CA-C	-5.32	105.20	111.00
49	DQ	111	GLU	N-CA-C	-5.32	104.89	111.33
36	DA	1301	A	C2'-C3'-O3'	5.32	117.48	109.50
55	BW	31	GLU	N-CA-C	-5.32	105.38	111.07
57	BY	60	PHE	N-CA-C	5.32	117.70	107.44
48	BP	28	GLY	N-CA-C	-5.31	100.59	113.18
8	CH	125	ARG	N-CA-C	-5.31	105.49	111.28
4	AD	26	CYS	N-CA-C	-5.31	106.50	112.87
27	B1	13	ILE	N-CA-C	5.31	116.40	108.54
43	BH	113	VAL	N-CA-C	5.30	116.22	108.53
25	CZ	202	LEU	N-CA-C	-5.30	105.63	112.68
56	BX	64	LYS	N-CA-C	5.29	117.72	109.52
47	DO	8	LEU	N-CA-C	5.29	117.05	108.26
36	BA	1068	G	C2'-C3'-O3'	5.29	117.44	109.50
43	BH	69	ARG	N-CA-C	-5.29	106.52	112.87
36	DA	1371	G	C2'-C3'-O3'	-5.29	105.77	113.70
40	BE	29	GLY	CA-C-N	5.29	126.45	119.84
40	BE	29	GLY	C-N-CA	5.29	126.45	119.84
36	BA	1820	U	C4'-C3'-C2'	5.28	107.88	102.60
41	BF	98	SER	N-CA-C	5.28	117.51	108.90
27	B1	82	LEU	N-CA-C	5.28	117.68	108.76
36	DA	1052	C	C2'-C3'-O3'	5.28	117.42	109.50
36	BA	49	A	C2'-C3'-O3'	5.28	117.42	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	D1	37	ILE	CB-CA-C	-5.28	104.91	111.08
27	D1	55	GLY	N-CA-C	-5.28	100.68	113.18
36	BA	1680	U	N1-C1'-C2'	5.27	119.91	112.00
13	CM	123	ALA	CA-C-N	5.27	126.43	119.84
13	CM	123	ALA	C-N-CA	5.27	126.43	119.84
43	DH	139	GLN	N-CA-C	-5.27	106.80	113.18
43	DH	113	VAL	N-CA-C	5.27	116.17	108.53
42	DG	135	LEU	N-CA-C	5.26	116.98	109.14
1	AA	1251	A	N9-C1'-C2'	5.26	119.89	112.00
3	AC	80	GLY	N-CA-C	-5.26	103.50	110.97
3	AC	179	ARG	N-CA-C	-5.26	105.96	112.38
36	BA	1786	A	N9-C1'-C2'	5.26	121.89	114.00
42	DG	109	VAL	CB-CA-C	-5.25	105.24	111.97
57	DY	100	ALA	N-CA-C	5.25	117.80	109.50
49	BQ	111	GLU	N-CA-C	-5.25	104.97	111.33
9	CI	74	ILE	N-CA-C	5.25	115.47	110.53
36	DA	1068	G	C2'-C3'-O3'	5.25	117.38	109.50
36	DA	1493	C	N1-C1'-C2'	5.25	121.88	114.00
9	AI	83	ARG	N-CA-C	-5.25	106.13	112.54
7	CG	87	VAL	N-CA-C	5.25	120.22	108.88
4	AD	133	VAL	N-CA-C	5.25	116.22	108.45
33	B7	24	THR	CA-C-N	5.25	126.40	119.84
33	B7	24	THR	C-N-CA	5.25	126.40	119.84
54	BV	6	LYS	N-CA-C	5.25	117.28	107.99
36	DA	614(C)	A	C2'-C3'-O3'	5.24	117.36	109.50
40	BE	17	ASP	CB-CA-C	-5.24	110.11	117.23
31	D5	12	SER	N-CA-C	5.24	117.69	110.35
39	DD	193	VAL	N-CA-C	5.24	120.24	109.34
43	DH	17	VAL	N-CA-C	5.24	114.81	107.37
34	D8	47	LYS	N-CA-C	5.24	117.64	109.52
32	D6	13	CYS	N-CA-C	5.24	117.83	110.14
41	BF	143	ALA	N-CA-C	-5.23	106.67	113.16
6	AF	65	VAL	N-CA-C	5.23	117.31	109.20
1	CA	1101	A	C2'-C3'-O3'	5.23	117.34	109.50
34	B8	14	VAL	N-CA-C	5.22	115.48	108.17
46	DN	48	MET	N-CA-C	-5.22	106.60	112.87
58	DZ	24	LEU	CA-C-N	5.22	125.22	119.89
58	DZ	24	LEU	C-N-CA	5.22	125.22	119.89
6	AF	22	GLU	N-CA-C	-5.22	105.03	111.40
1	AA	935	A	N9-C1'-C2'	5.22	119.83	112.00
1	CA	1196	U	N1-C1'-C2'	5.22	119.83	112.00
52	DT	70	VAL	N-CA-C	5.22	117.13	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	DF	83	PHE	N-CA-C	-5.22	99.69	110.80
1	CA	1157	A	C2'-C3'-O3'	5.22	117.33	109.50
1	AA	1502	A	N9-C1'-C2'	5.21	121.81	114.00
32	B6	42	TRP	N-CA-C	-5.21	107.06	113.41
38	BC	123	VAL	N-CA-C	-5.21	107.75	112.96
36	BA	676	A	N9-C1'-C2'	5.21	119.81	112.00
48	BP	138	LEU	N-CA-C	-5.21	106.61	113.17
1	AA	518	C	N1-C1'-C2'	5.20	121.81	114.00
15	AO	7	GLU	N-CA-C	-5.20	105.67	112.23
10	CJ	40	LEU	N-CA-C	5.20	118.14	109.09
29	D3	24	LYS	N-CA-C	-5.20	106.19	113.37
42	BG	74	LYS	N-CA-C	5.20	113.74	108.75
1	CA	454	C	N1-C1'-C2'	5.20	119.80	112.00
39	DD	225	ALA	N-CA-C	-5.20	99.73	110.80
42	DG	121	ASN	CA-C-N	5.20	126.34	119.84
42	DG	121	ASN	C-N-CA	5.20	126.34	119.84
42	DG	16	ARG	N-CA-C	5.20	121.30	109.81
1	AA	913	A	C4'-C3'-O3'	-5.20	101.61	109.40
41	DF	98	SER	N-CA-C	5.20	117.37	108.90
3	CC	179	ARG	N-CA-C	-5.19	106.05	112.38
32	D6	41	PRO	N-CA-C	5.19	118.76	111.33
36	DA	1680	U	C4'-C3'-O3'	-5.19	105.21	113.00
11	AK	50	TYR	N-CA-C	5.19	117.74	109.96
36	BA	2580	U	N1-C1'-C2'	5.19	119.78	112.00
51	BS	84	GLN	N-CA-C	5.19	118.46	110.42
3	CC	155	GLY	N-CA-C	5.19	125.47	113.18
33	D7	24	THR	CA-C-N	5.19	126.32	119.84
33	D7	24	THR	C-N-CA	5.19	126.32	119.84
36	BA	1909	C	C5'-C4'-C3'	-5.18	108.22	116.00
36	BA	2542	A	C2'-C3'-O3'	-5.18	105.92	113.70
4	CD	77	ASN	N-CA-C	-5.18	105.32	110.97
56	DX	64	LYS	N-CA-C	5.18	117.55	109.52
53	DU	80	ILE	N-CA-C	-5.18	107.78	113.43
39	BD	225	ALA	N-CA-C	-5.18	99.77	110.80
3	CC	72	LYS	CA-C-N	5.18	126.31	119.84
3	CC	72	LYS	C-N-CA	5.18	126.31	119.84
17	CQ	29	HIS	N-CA-C	-5.18	102.94	110.08
1	AA	530	G	N9-C1'-C2'	5.18	119.77	112.00
9	AI	74	ILE	N-CA-C	5.18	115.40	110.53
52	DT	80	SER	N-CA-C	5.17	121.25	109.81
39	BD	180	GLY	N-CA-C	-5.17	107.74	113.79
11	AK	61	ALA	N-CA-C	-5.17	104.91	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BD	193	VAL	N-CA-C	5.17	120.09	109.34
52	BT	80	SER	N-CA-C	5.17	121.23	109.81
57	DY	62	GLU	N-CA-C	5.17	121.80	110.80
28	D2	13	ALA	N-CA-C	5.16	118.04	111.69
49	BQ	116	GLU	N-CA-C	-5.16	103.18	111.02
48	DP	26	GLY	N-CA-C	-5.16	100.95	113.18
3	AC	72	LYS	CA-C-N	5.16	126.28	119.84
3	AC	72	LYS	C-N-CA	5.16	126.28	119.84
1	AA	1516	G	C3'-C2'-O2'	5.15	118.43	110.70
17	CQ	49	GLU	N-CA-C	-5.15	104.31	111.52
58	DZ	158	PRO	CA-C-N	5.15	126.28	119.84
58	DZ	158	PRO	C-N-CA	5.15	126.28	119.84
55	BW	56	ALA	N-CA-C	-5.15	107.07	113.19
39	DD	214	TRP	N-CA-C	-5.14	104.64	112.04
25	AZ	396	GLY	N-CA-C	5.14	118.57	110.91
36	DA	2282	G	C4'-C3'-O3'	5.14	117.11	109.40
39	DD	7	LYS	N-CA-C	-5.14	102.70	109.84
11	AK	37	GLY	N-CA-C	-5.14	107.60	115.00
39	BD	7	LYS	N-CA-C	-5.13	102.70	109.84
43	DH	69	ARG	N-CA-C	-5.13	106.71	112.87
25	CZ	349	VAL	N-CA-C	5.13	116.25	108.96
12	AL	18	VAL	N-CA-C	5.13	120.01	109.34
46	BN	137	LYS	CB-CA-C	-5.13	109.69	117.07
46	DN	132	ALA	N-CA-C	-5.13	105.79	113.89
12	AL	100	ILE	N-CA-C	-5.13	104.46	110.05
1	CA	1485	U	C2'-C3'-O3'	-5.13	106.01	113.70
39	DD	82	ILE	N-CA-C	-5.13	101.08	108.87
33	B7	5	TRP	N-CA-C	5.12	117.01	107.99
36	BA	856	C	C2'-C3'-O3'	5.12	121.39	113.70
39	BD	80	ALA	N-CA-C	-5.12	105.61	111.14
3	AC	18	TRP	N-CA-C	5.12	116.93	110.33
39	DD	228	PRO	CA-C-N	5.12	127.01	120.56
39	DD	228	PRO	C-N-CA	5.12	127.01	120.56
52	DT	26	ASP	N-CA-C	5.11	118.46	107.67
28	B2	11	GLU	N-CA-C	-5.11	105.88	112.68
48	BP	26	GLY	N-CA-C	-5.11	101.07	113.18
58	BZ	35	ARG	N-CA-C	5.11	117.18	109.41
46	DN	3	THR	N-CA-C	-5.11	101.89	109.96
57	BY	62	GLU	N-CA-C	5.11	121.67	110.80
46	DN	137	LYS	CB-CA-C	-5.11	109.72	117.07
32	B6	41	PRO	N-CA-C	5.10	118.63	111.33
38	DC	71	GLN	N-CA-C	5.10	117.74	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	AZ	190	ARG	N-CA-C	5.10	121.66	110.80
43	BH	17	VAL	N-CA-C	5.10	114.61	107.37
2	AB	62	ALA	N-CA-C	-5.10	105.18	111.40
52	BT	124	ASP	N-CA-C	-5.09	107.01	113.43
1	AA	274	A	C4'-C3'-O3'	5.09	117.04	109.40
1	AA	1196	U	N1-C1'-C2'	5.09	119.64	112.00
5	CE	14	ARG	N-CA-C	5.09	118.04	109.95
38	BC	47	LEU	N-CA-C	5.09	117.74	109.24
39	BD	82	ILE	CB-CA-C	-5.09	104.24	111.21
1	AA	534	U	N1-C1'-C2'	-5.08	104.38	112.00
46	BN	132	ALA	N-CA-C	-5.08	105.86	113.89
57	BY	53	PRO	N-CA-C	5.08	122.94	112.47
51	BS	12	PHE	N-CA-C	-5.08	106.86	113.16
24	CY	34	G	C1'-C2'-O2'	5.08	116.02	108.40
10	AJ	26	ALA	N-CA-C	-5.08	105.35	112.25
40	DE	36	ARG	N-CA-C	-5.07	101.19	108.60
10	AJ	25	GLU	N-CA-C	-5.07	105.75	112.34
55	DW	58	ALA	N-CA-C	-5.07	104.89	112.54
39	BD	183	ARG	N-CA-C	5.06	117.37	109.52
10	CJ	66	ARG	N-CA-C	5.06	116.51	108.67
12	CL	7	ILE	N-CA-C	-5.06	105.56	110.42
48	DP	36	LYS	N-CA-C	5.06	117.37	110.24
2	AB	186	ALA	N-CA-C	5.05	116.10	108.07
27	B1	51	VAL	N-CA-C	5.05	115.31	107.78
56	DX	36	LYS	N-CA-C	-5.05	107.14	113.15
39	BD	74	GLY	CA-C-N	-5.05	118.95	122.59
39	BD	74	GLY	C-N-CA	-5.05	118.95	122.59
21	CU	21	TYR	N-CA-C	-5.05	107.14	113.15
39	DD	210	GLY	N-CA-C	-5.04	101.22	113.18
17	AQ	29	HIS	N-CA-C	-5.04	103.12	110.08
7	CG	42	ILE	CB-CA-C	-5.04	105.51	111.81
36	DA	139(A)	G	N9-C1'-C2'	5.04	119.56	112.00
36	DA	1300	U	C4'-C3'-O3'	5.04	116.96	109.40
17	AQ	49	GLU	N-CA-C	-5.04	104.46	111.52
36	DA	2580	U	N1-C1'-C2'	5.04	119.56	112.00
40	DE	163	GLU	N-CA-C	5.04	115.69	108.74
16	CP	71	ARG	CA-C-N	5.04	126.99	120.44
16	CP	71	ARG	C-N-CA	5.04	126.99	120.44
36	DA	1899	G	C4'-C3'-O3'	-5.03	105.45	113.00
1	AA	508	C	N1-C1'-C2'	5.03	121.55	114.00
25	AZ	73	ALA	N-CA-C	-5.03	107.29	112.93
57	BY	100	ALA	N-CA-C	5.03	117.45	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	1268	A	N9-C1'-C2'	5.03	119.55	112.00
25	AZ	168	VAL	CA-C-N	5.03	126.12	119.84
25	AZ	168	VAL	C-N-CA	5.03	126.12	119.84
53	DU	9	VAL	N-CA-C	5.03	119.80	109.34
1	AA	816	A	N9-C1'-C2'	5.03	119.54	112.00
25	CZ	153	GLU	N-CA-C	-5.03	107.10	113.18
7	AG	127	ALA	N-CA-C	-5.02	106.84	112.87
39	DD	90	ALA	N-CA-C	5.02	117.12	109.63
41	DF	200	GLU	N-CA-C	-5.02	105.88	111.36
36	DA	2429	G	C4'-C3'-O3'	-5.02	105.47	113.00
42	DG	41	GLN	N-CA-C	-5.02	104.76	111.24
25	AZ	153	GLU	N-CA-C	-5.02	107.10	113.18
38	BC	46	LYS	N-CA-C	-5.02	102.34	110.32
38	DC	6	ARG	N-CA-C	-5.02	106.26	112.38
11	AK	29	ILE	N-CA-C	5.02	115.07	107.75
41	BF	106	ARG	N-CA-C	-5.01	107.00	112.72
2	CB	62	ALA	N-CA-C	-5.01	105.28	111.40
36	DA	2131	G	C4'-C3'-O3'	5.01	116.92	109.40
40	DE	52	LEU	CA-C-N	5.01	126.11	119.84
40	DE	52	LEU	C-N-CA	5.01	126.11	119.84
25	CZ	396	GLY	N-CA-C	5.01	118.38	110.91
38	DC	152	ILE	N-CA-C	-5.01	107.55	113.42
2	CB	160	ASP	N-CA-C	-5.01	107.12	113.18
11	CK	29	ILE	N-CA-C	5.01	115.07	107.75
1	AA	1157	A	C2'-C3'-O3'	5.01	117.02	109.50
4	AD	141	ARG	CA-C-N	5.01	126.10	119.84
4	AD	141	ARG	C-N-CA	5.01	126.10	119.84
53	BU	31	SER	N-CA-C	5.01	116.92	108.96
5	CE	62	ALA	N-CA-C	-5.01	103.16	111.37
36	DA	1796	U	C3'-C2'-O2'	5.01	118.21	110.70
16	AP	50	LYS	N-CA-C	-5.00	101.68	109.24
58	BZ	56	VAL	N-CA-C	5.00	115.12	108.27
8	CH	81	HIS	N-CA-C	-5.00	106.35	112.90

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1498	U	C3'
36	BA	1799	G	C3'
36	BA	1819	A	C3'
36	DA	1819	A	C3'

All (315) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1054	C	Sidechain
1	AA	1058	G	Sidechain
1	AA	1067	A	Sidechain
1	AA	1081	G	Sidechain
1	AA	109	A	Sidechain
1	AA	1194	U	Sidechain
1	AA	1201	A	Sidechain
1	AA	1301	U	Sidechain
1	AA	1302	U	Sidechain
1	AA	1329	A	Sidechain
1	AA	1348	U	Sidechain
1	AA	1370	G	Sidechain
1	AA	1391	U	Sidechain
1	AA	1394	A	Sidechain
1	AA	1401	G	Sidechain
1	AA	1406	U	Sidechain
1	AA	1407	C	Sidechain
1	AA	1408	A	Sidechain
1	AA	1415	G	Sidechain
1	AA	1417	G	Sidechain
1	AA	1491	G	Sidechain
1	AA	1497	G	Sidechain
1	AA	1498	U	Sidechain
1	AA	1505	G	Sidechain
1	AA	1509	C	Sidechain
1	AA	1510	U	Sidechain
1	AA	1514	C	Sidechain
1	AA	189(H)	G	Sidechain
1	AA	235	C	Sidechain
1	AA	24	U	Sidechain
1	AA	245	C	Sidechain
1	AA	254	G	Sidechain
1	AA	362	G	Sidechain
1	AA	37	U	Sidechain
1	AA	371	G	Sidechain
1	AA	424	G	Sidechain
1	AA	453	A	Sidechain
1	AA	498	U	Sidechain
1	AA	534	U	Sidechain
1	AA	541	G	Sidechain
1	AA	559	A	Sidechain
1	AA	565	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	584	G	Sidechain
1	AA	609	A	Sidechain
1	AA	641	U	Sidechain
1	AA	652	U	Sidechain
1	AA	655	A	Sidechain
1	AA	661	G	Sidechain
1	AA	678	U	Sidechain
1	AA	690	G	Sidechain
1	AA	7	G	Sidechain
1	AA	727	G	Sidechain
1	AA	788	U	Sidechain
1	AA	813	U	Sidechain
1	AA	816	A	Sidechain
1	AA	836	G	Sidechain
1	AA	858	G	Sidechain
1	AA	901	A	Sidechain
1	AA	917	G	Sidechain
1	AA	919	A	Sidechain
1	AA	920	U	Sidechain
1	AA	935	A	Sidechain
1	AA	936	C	Sidechain
1	AA	952	U	Sidechain
1	AA	955	U	Sidechain
1	AA	961	U	Sidechain
1	AA	978	A	Sidechain
1	AA	982	U	Sidechain
22	AV	32	U	Sidechain
22	AV	49	C	Sidechain
22	AW	10	G	Sidechain
22	AW	16	U	Sidechain
22	AW	8	U	Sidechain
23	AX	19	U	Sidechain
30	B4	43	TYR	Sidechain
36	BA	1234	U	Sidechain
36	BA	1251	C	Sidechain
36	BA	1343	G	Sidechain
36	BA	1357	U	Sidechain
36	BA	1420	U	Sidechain
36	BA	1433	U	Sidechain
36	BA	1435	G	Sidechain
36	BA	1447	G	Sidechain
36	BA	1504	C	Sidechain

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Mol	Chain	Res	Type	Group
36	BA	1528	A	Sidechain
36	BA	1614	A	Sidechain
36	BA	1619	G	Sidechain
36	BA	1633	G	Sidechain
36	BA	1690	A	Sidechain
36	BA	1772	G	Sidechain
36	BA	1777	U	Sidechain
36	BA	1779	U	Sidechain
36	BA	1791	A	Sidechain
36	BA	1804	C	Sidechain
36	BA	1812	A	Sidechain
36	BA	1833	U	Sidechain
36	BA	1834	U	Sidechain
36	BA	1849	G	Sidechain
36	BA	1927	A	Sidechain
36	BA	1938	A	Sidechain
36	BA	1944	U	Sidechain
36	BA	1955	U	Sidechain
36	BA	1962	C	Sidechain
36	BA	1971	A	Sidechain
36	BA	1972	A	Sidechain
36	BA	1980	G	Sidechain
36	BA	1987	G	Sidechain
36	BA	2052	G	Sidechain
36	BA	2070	G	Sidechain
36	BA	2079	U	Sidechain
36	BA	2233	U	Sidechain
36	BA	2237	G	Sidechain
36	BA	2250	G	Sidechain
36	BA	2344	U	Sidechain
36	BA	2346	A	Sidechain
36	BA	2357	U	Sidechain
36	BA	2390	U	Sidechain
36	BA	2464	C	Sidechain
36	BA	250	G	Sidechain
36	BA	2504	U	Sidechain
36	BA	2507	C	Sidechain
36	BA	2517	C	Sidechain
36	BA	2525	G	Sidechain
36	BA	2554	U	Sidechain
36	BA	2595	G	Sidechain
36	BA	2596	U	Sidechain

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Mol	Chain	Res	Type	Group
36	BA	2597	G	Sidechain
36	BA	2604	U	Sidechain
36	BA	269	U	Sidechain
36	BA	2719	G	Sidechain
36	BA	2756	U	Sidechain
36	BA	2779	U	Sidechain
36	BA	389	G	Sidechain
36	BA	395	U	Sidechain
36	BA	454	A	Sidechain
36	BA	463	G	Sidechain
36	BA	464	U	Sidechain
36	BA	532	A	Sidechain
36	BA	574	C	Sidechain
36	BA	606	U	Sidechain
36	BA	63	U	Sidechain
36	BA	676	A	Sidechain
36	BA	686	G	Sidechain
36	BA	688	U	Sidechain
36	BA	716	A	Sidechain
36	BA	72	U	Sidechain
36	BA	726	G	Sidechain
36	BA	746	A	Sidechain
36	BA	749	C	Sidechain
36	BA	763	G	Sidechain
36	BA	769	G	Sidechain
36	BA	776	G	Sidechain
36	BA	787	U	Sidechain
36	BA	792	G	Sidechain
36	BA	860	U	Sidechain
36	BA	945	A	Sidechain
36	BA	946	G	Sidechain
36	BA	972	G	Sidechain
36	BA	987	G	Sidechain
46	BN	4	TYR	Sidechain
1	CA	1054	C	Sidechain
1	CA	1058	G	Sidechain
1	CA	1081	G	Sidechain
1	CA	109	A	Sidechain
1	CA	1194	U	Sidechain
1	CA	1201	A	Sidechain
1	CA	1302	U	Sidechain
1	CA	1329	A	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	1348	U	Sidechain
1	CA	1370	G	Sidechain
1	CA	1391	U	Sidechain
1	CA	1394	A	Sidechain
1	CA	1402	C	Sidechain
1	CA	1415	G	Sidechain
1	CA	1417	G	Sidechain
1	CA	1465	C	Sidechain
1	CA	1473	A	Sidechain
1	CA	1481	U	Sidechain
1	CA	1492	A	Sidechain
1	CA	1498	U	Sidechain
1	CA	1517	G	Sidechain
1	CA	1519	A	Sidechain
1	CA	1528	U	Sidechain
1	CA	189(H)	G	Sidechain
1	CA	24	U	Sidechain
1	CA	245	C	Sidechain
1	CA	37	U	Sidechain
1	CA	371	G	Sidechain
1	CA	424	G	Sidechain
1	CA	498	U	Sidechain
1	CA	521	G	Sidechain
1	CA	534	U	Sidechain
1	CA	541	G	Sidechain
1	CA	559	A	Sidechain
1	CA	565	U	Sidechain
1	CA	584	G	Sidechain
1	CA	609	A	Sidechain
1	CA	641	U	Sidechain
1	CA	652	U	Sidechain
1	CA	655	A	Sidechain
1	CA	661	G	Sidechain
1	CA	677	U	Sidechain
1	CA	678	U	Sidechain
1	CA	7	G	Sidechain
1	CA	727	G	Sidechain
1	CA	787	A	Sidechain
1	CA	788	U	Sidechain
1	CA	813	U	Sidechain
1	CA	816	A	Sidechain
1	CA	858	G	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	901	A	Sidechain
1	CA	914	A	Sidechain
1	CA	917	G	Sidechain
1	CA	920	U	Sidechain
1	CA	921	U	Sidechain
1	CA	935	A	Sidechain
1	CA	936	C	Sidechain
1	CA	952	U	Sidechain
1	CA	955	U	Sidechain
1	CA	961	U	Sidechain
1	CA	974	A	Sidechain
1	CA	978	A	Sidechain
1	CA	982	U	Sidechain
22	CV	32	U	Sidechain
22	CV	49	C	Sidechain
22	CW	10	G	Sidechain
22	CW	16	U	Sidechain
22	CW	8	U	Sidechain
23	CX	19	U	Sidechain
30	D4	43	TYR	Sidechain
36	DA	1234	U	Sidechain
36	DA	1251	C	Sidechain
36	DA	1302	A	Sidechain
36	DA	1325	G	Sidechain
36	DA	1343	G	Sidechain
36	DA	1357	U	Sidechain
36	DA	1420	U	Sidechain
36	DA	1433	U	Sidechain
36	DA	1447	G	Sidechain
36	DA	1465	G	Sidechain
36	DA	1528	A	Sidechain
36	DA	1631(A)	A	Sidechain
36	DA	1633	G	Sidechain
36	DA	1701	A	Sidechain
36	DA	1772	G	Sidechain
36	DA	1777	U	Sidechain
36	DA	1779	U	Sidechain
36	DA	1791	A	Sidechain
36	DA	1804	C	Sidechain
36	DA	1808	U	Sidechain
36	DA	1823	G	Sidechain
36	DA	1834	U	Sidechain

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Mol	Chain	Res	Type	Group
36	DA	1849	G	Sidechain
36	DA	1923	U	Sidechain
36	DA	1927	A	Sidechain
36	DA	1944	U	Sidechain
36	DA	1955	U	Sidechain
36	DA	1968	G	Sidechain
36	DA	1971	A	Sidechain
36	DA	1980	G	Sidechain
36	DA	1987	G	Sidechain
36	DA	2000	G	Sidechain
36	DA	2009	G	Sidechain
36	DA	2031	A	Sidechain
36	DA	2052	G	Sidechain
36	DA	2070	G	Sidechain
36	DA	2079	U	Sidechain
36	DA	2224	G	Sidechain
36	DA	2233	U	Sidechain
36	DA	2237	G	Sidechain
36	DA	2250	G	Sidechain
36	DA	2344	U	Sidechain
36	DA	2346	A	Sidechain
36	DA	2390	U	Sidechain
36	DA	2464	C	Sidechain
36	DA	2491	U	Sidechain
36	DA	2504	U	Sidechain
36	DA	2525	G	Sidechain
36	DA	2554	U	Sidechain
36	DA	2581	G	Sidechain
36	DA	2595	G	Sidechain
36	DA	2596	U	Sidechain
36	DA	2597	G	Sidechain
36	DA	2604	U	Sidechain
36	DA	269	U	Sidechain
36	DA	2712(A)	A	Sidechain
36	DA	2719	G	Sidechain
36	DA	2756	U	Sidechain
36	DA	2779	U	Sidechain
36	DA	28	A	Sidechain
36	DA	389	G	Sidechain
36	DA	395	U	Sidechain
36	DA	45	C	Sidechain
36	DA	454	A	Sidechain

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Mol	Chain	Res	Type	Group
36	DA	463	G	Sidechain
36	DA	464	U	Sidechain
36	DA	498	G	Sidechain
36	DA	532	A	Sidechain
36	DA	606	U	Sidechain
36	DA	676	A	Sidechain
36	DA	686	G	Sidechain
36	DA	688	U	Sidechain
36	DA	72	U	Sidechain
36	DA	726	G	Sidechain
36	DA	746	A	Sidechain
36	DA	759	G	Sidechain
36	DA	763	G	Sidechain
36	DA	769	G	Sidechain
36	DA	776	G	Sidechain
36	DA	787	U	Sidechain
36	DA	860	U	Sidechain
36	DA	945	A	Sidechain
36	DA	972	G	Sidechain
36	DA	987	G	Sidechain
46	DN	4	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	2220	0
1	CA	32329	0	16318	2219	0
2	AB	1901	0	1951	401	1
2	CB	1901	0	1951	411	1
3	AC	1613	0	1677	283	0
3	CC	1613	0	1677	275	0
4	AD	1703	0	1764	310	0
4	CD	1703	0	1765	323	0
5	AE	1147	0	1207	208	0
5	CE	1147	0	1207	208	0
6	AF	843	0	857	96	0
6	CF	843	0	857	108	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	AG	1257	0	1296	198	0
7	CG	1257	0	1296	199	0
8	AH	1116	0	1177	196	0
8	CH	1116	0	1177	207	0
9	AI	1010	0	1037	173	0
9	CI	1010	0	1037	181	0
10	AJ	795	0	840	208	0
10	CJ	795	0	840	216	0
11	AK	885	0	904	142	0
11	CK	885	0	904	131	0
12	AL	971	0	1057	162	0
12	CL	971	0	1057	160	0
13	AM	988	0	1059	230	0
13	CM	988	0	1059	221	0
14	AN	492	0	529	136	0
14	CN	492	0	529	135	0
15	AO	734	0	771	102	0
15	CO	734	0	771	106	0
16	AP	701	0	720	125	0
16	CP	701	0	720	124	0
17	AQ	824	0	891	92	0
17	CQ	824	0	891	93	0
18	AR	574	0	644	100	0
18	CR	574	0	644	99	0
19	AS	630	0	652	135	0
19	CS	630	0	652	135	0
20	AT	763	0	861	156	0
20	CT	763	0	861	147	0
21	AU	209	0	221	31	0
21	CU	209	0	221	33	0
22	AV	1619	0	822	99	0
22	AW	1619	0	822	83	0
22	CV	1619	0	822	88	0
22	CW	1619	0	822	88	0
23	AX	272	0	142	23	0
23	CX	272	0	142	21	0
24	AY	1650	0	851	116	0
24	CY	1650	0	851	114	0
25	AZ	2900	0	2907	521	0
25	CZ	2900	0	2907	503	0
26	B0	662	0	688	114	0
26	D0	662	0	688	117	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	B1	732	0	808	157	0
27	D1	732	0	808	161	0
28	B2	598	0	653	175	0
28	D2	598	0	653	159	0
29	B3	468	0	523	78	0
29	D3	468	0	523	81	0
30	B4	341	0	337	71	0
30	D4	341	0	337	63	0
31	B5	459	0	480	105	0
31	D5	459	0	480	102	0
32	B6	433	0	461	159	0
32	D6	433	0	461	164	0
33	B7	419	0	467	78	0
33	D7	419	0	467	81	0
34	B8	508	0	576	148	0
34	D8	508	0	576	153	0
35	B9	307	0	335	77	0
35	D9	307	0	337	80	0
36	BA	62474	0	31497	4310	0
36	DA	62474	0	31497	4324	0
37	BB	2551	0	1295	152	0
37	DB	2551	0	1295	163	0
38	BC	1742	0	1800	282	1
38	DC	1742	0	1800	283	1
39	BD	2145	0	2234	459	0
39	DD	2145	0	2234	455	0
40	BE	1564	0	1629	344	0
40	DE	1564	0	1629	335	0
41	BF	1624	0	1677	374	0
41	DF	1624	0	1677	370	0
42	BG	1474	0	1535	420	0
42	DG	1474	0	1535	380	0
43	BH	1223	0	1282	223	0
43	DH	1223	0	1282	226	0
44	BJ	651	0	136	11	0
44	DJ	651	0	136	9	0
45	BK	701	0	157	35	0
45	DK	701	0	157	34	0
46	BN	1105	0	1180	246	0
46	DN	1105	0	1180	248	0
47	BO	933	0	996	126	0
47	DO	933	0	996	128	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	BP	1114	0	1187	323	0
48	DP	1114	0	1187	321	0
49	BQ	1122	0	1179	252	0
49	DQ	1122	0	1179	240	0
50	BR	960	0	1021	205	0
50	DR	960	0	1021	202	0
51	BS	771	0	832	202	0
51	DS	771	0	832	197	0
52	BT	1142	0	1202	283	0
52	DT	1142	0	1202	285	0
53	BU	958	0	1015	235	0
53	DU	958	0	1015	237	0
54	BV	779	0	852	168	0
54	DV	779	0	852	172	0
55	BW	896	0	953	161	0
55	DW	896	0	953	167	0
56	BX	726	0	778	129	0
56	DX	726	0	778	123	0
57	BY	776	0	870	210	0
57	DY	776	0	870	205	0
58	BZ	1403	0	1432	327	0
58	DZ	1403	0	1432	306	0
59	AA	42	0	45	4	0
59	CA	42	0	45	3	0
60	AD	1	0	0	1	0
60	AN	1	0	0	0	0
60	B4	1	0	0	0	0
60	B9	1	0	0	0	0
60	CD	1	0	0	0	0
60	CN	1	0	0	0	0
60	D4	1	0	0	0	0
60	D9	1	0	0	2	0
61	AY	1	0	0	0	0
61	CY	1	0	0	0	0
62	AZ	28	0	12	15	0
62	CZ	28	0	12	15	0
63	AZ	57	0	58	4	0
63	CZ	57	0	59	8	0
All	All	306876	0	208322	31193	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 61.

All (31193) 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)
25:AZ:356:PRO:O	25:AZ:359:VAL:CG2	1.74	1.32
27:B1:41:ARG:NH2	36:BA:1365:A:H5''	1.53	1.24
25:CZ:356:PRO:O	25:CZ:359:VAL:HG22	1.38	1.20
24:CY:41:G:H2'	24:CY:42:U:H5''	1.24	1.19
32:B6:45:LYS:H	32:B6:45:LYS:CD	1.48	1.19
19:AS:16:LEU:HA	19:AS:19:VAL:HB	1.21	1.18
36:DA:2012:G:H4'	55:DW:96:ILE:HD11	1.25	1.18
19:CS:16:LEU:HA	19:CS:19:VAL:HB	1.19	1.17
25:CZ:355:LEU:HB3	25:CZ:359:VAL:HG23	1.25	1.17
39:DD:147:LEU:HD11	39:DD:183:ARG:NH1	1.60	1.17
57:BY:46:LYS:H	57:BY:62:GLU:HG2	1.10	1.16
42:DG:85:GLY:C	42:DG:87:PRO:HD3	1.69	1.16
32:D6:45:LYS:H	32:D6:45:LYS:CD	1.49	1.16
25:AZ:38:GLU:HG3	25:AZ:189:ARG:NH1	1.60	1.15
24:AY:41:G:H2'	24:AY:42:U:H5''	1.22	1.15
36:BA:1887:C:H2'	36:BA:1888:G:H5''	1.22	1.15
28:D2:38:GLN:HB3	28:D2:44:LEU:HD13	1.24	1.15
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.12	1.14
24:CY:61:C:H2'	24:CY:62:U:H5''	1.18	1.14
36:DA:655:A:H4'	36:DA:656:G:H5'	1.17	1.14
24:AY:61:C:H2'	24:AY:62:U:H5''	1.16	1.14
36:DA:2523:G:H2'	36:DA:2524:G:H5''	1.23	1.14
1:AA:368:U:H5	25:AZ:234:ARG:HD3	1.05	1.14
8:AH:23:SER:HA	8:AH:63:LEU:HD23	1.22	1.14
36:DA:227:A:H5''	48:DP:76:LYS:HE3	1.29	1.14
27:B1:13:ILE:HD11	36:BA:396:G:H5'	1.14	1.14
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.29	1.14
1:CA:8:A:H62	4:CD:208:SER:HB2	1.13	1.14
36:DA:2761:G:H2'	36:DA:2762:G:H5''	1.19	1.13
36:DA:271(M):G:H2'	36:DA:271(N):U:H5''	1.28	1.13
57:DY:50:ARG:HB3	57:DY:53:PRO:HG3	1.26	1.13
1:AA:1470:G:H2'	1:AA:1471:G:H8	1.10	1.13
36:BA:2523:G:H2'	36:BA:2524:G:H5''	1.23	1.13
39:BD:147:LEU:HD11	39:BD:183:ARG:NH1	1.62	1.13
25:CZ:268:THR:HG23	25:CZ:289:LEU:HD23	1.29	1.13
38:DC:94:VAL:HG12	38:DC:95:GLY:H	1.12	1.13
9:AI:53:VAL:HG13	9:AI:95:LYS:HE3	1.30	1.12
27:D1:13:ILE:HD11	36:DA:396:G:H5'	1.20	1.13
36:DA:797:C:H2'	36:DA:798:G:H8	1.13	1.13
25:AZ:356:PRO:O	25:AZ:359:VAL:HG22	1.39	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:979:C:H3'	1:CA:980:C:H5''	1.14	1.12
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	1.24	1.12
8:CH:23:SER:HA	8:CH:63:LEU:HD23	1.28	1.12
40:DE:57:LYS:HA	40:DE:57:LYS:HE3	1.16	1.12
36:BA:925:C:H2'	36:BA:926:A:H5''	1.14	1.11
10:CJ:16:LEU:HD11	10:CJ:70:ARG:HG3	1.30	1.11
38:BC:114:VAL:HB	38:BC:149:ILE:HD11	1.16	1.11
57:BY:50:ARG:HB3	57:BY:53:PRO:HG3	1.27	1.11
1:CA:265:G:H2'	1:CA:266:G:H5''	1.26	1.11
36:BA:655:A:H4'	36:BA:656:G:H5'	1.18	1.11
38:DC:114:VAL:HB	38:DC:149:ILE:HD11	1.16	1.11
41:DF:64:ILE:HG23	41:DF:65:TRP:H	1.15	1.11
58:DZ:141:VAL:HA	58:DZ:144:LEU:HD23	1.32	1.11
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.32	1.11
28:B2:51:ARG:HD3	28:B2:55:ARG:HH22	0.96	1.11
36:BA:2761:G:H2'	36:BA:2762:G:H5''	1.16	1.11
43:BH:52:VAL:HB	43:BH:69:ARG:HD3	1.29	1.11
24:CY:40:G:H2'	24:CY:41:G:H5''	1.32	1.11
36:DA:1887:C:H2'	36:DA:1888:G:H5''	1.21	1.11
43:DH:52:VAL:HB	43:DH:69:ARG:HD3	1.27	1.11
41:BF:155:LEU:HA	41:BF:174:VAL:HB	1.33	1.11
36:DA:925:C:H2'	36:DA:926:A:H5''	1.14	1.11
31:B5:4:HIS:HB2	31:B5:5:PRO:HD3	1.28	1.10
34:B8:10:ALA:HA	34:B8:13:ARG:HG2	1.33	1.10
53:DU:112:ARG:HH12	54:DV:46:VAL:HG11	1.09	1.10
36:BA:2502:G:H5''	36:BA:2503:A:H5''	1.30	1.10
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HG3	1.28	1.10
25:AZ:268:THR:HG23	25:AZ:289:LEU:HD23	1.30	1.10
42:BG:63:ILE:HG13	42:BG:64:THR:H	1.10	1.10
1:CA:368:U:H5	25:CZ:234:ARG:HD3	1.11	1.10
36:BA:271(M):G:H2'	36:BA:271(N):U:H5''	1.27	1.10
28:B2:38:GLN:HB3	28:B2:44:LEU:HD13	1.23	1.10
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.17	1.10
55:DW:8:ARG:HA	55:DW:102:HIS:HB3	1.29	1.10
27:D1:62:VAL:HG21	27:D1:67:ILE:HA	1.20	1.09
36:DA:2645:G:H3'	36:DA:2646:C:H5'	1.34	1.09
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.28	1.09
1:CA:1189:C:H5''	3:CC:5:ILE:HG21	1.22	1.09
36:DA:2523:G:C2'	36:DA:2524:G:H5''	1.81	1.09
36:DA:2502:G:H5''	36:DA:2503:A:H5''	1.28	1.09
36:BA:227:A:H5''	48:BP:76:LYS:HE3	1.25	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:797:C:H2'	36:BA:798:G:H8	1.12	1.09
36:BA:833:U:H5''	48:BP:48:PRO:HB3	1.35	1.09
36:BA:2523:G:C2'	36:BA:2524:G:H5''	1.82	1.09
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.32	1.09
41:BF:29:ASN:HD22	41:BF:32:LEU:HB2	1.18	1.09
26:D0:11:ARG:HB2	26:D0:11:ARG:HH11	1.15	1.09
25:AZ:138:VAL:HG21	25:AZ:173:GLY:H	0.92	1.08
36:BA:1484:G:H2'	36:BA:1485:G:H5''	1.35	1.08
42:BG:67:LYS:HD3	42:BG:67:LYS:N	1.64	1.08
1:AA:386:C:H2'	1:AA:387:U:H5'	1.35	1.08
27:B1:41:ARG:HH22	36:BA:1365:A:C5'	1.66	1.08
36:BA:511:U:H3'	36:BA:512:G:H5''	1.35	1.08
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.17	1.08
36:DA:94(A):G:H2'	36:DA:95:G:H5''	1.35	1.08
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.15	1.08
49:BQ:134:ARG:HD2	58:BZ:122:ARG:HH22	1.11	1.08
9:CI:53:VAL:HG13	9:CI:95:LYS:HE3	1.36	1.08
1:AA:265:G:H2'	1:AA:266:G:H5''	1.23	1.08
53:BU:112:ARG:HH12	54:BV:46:VAL:HG11	1.13	1.08
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.19	1.08
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.31	1.08
34:D8:10:ALA:HA	34:D8:13:ARG:HG2	1.34	1.08
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.23	1.07
25:AZ:189:ARG:HG3	25:AZ:190:ARG:H	0.92	1.07
25:AZ:264:ARG:HH11	25:AZ:264:ARG:HG2	1.05	1.07
32:B6:19:ARG:HD3	36:BA:2400:G:H4'	1.30	1.07
38:BC:94:VAL:HG12	38:BC:95:GLY:H	1.12	1.07
57:DY:46:LYS:H	57:DY:62:GLU:HG2	1.12	1.07
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.34	1.07
32:D6:27:LYS:HG3	32:D6:30:THR:HB	1.36	1.07
41:DF:155:LEU:HA	41:DF:174:VAL:HB	1.35	1.07
28:B2:41:ILE:HG13	28:B2:42:GLY:H	1.12	1.07
40:BE:57:LYS:HA	40:BE:57:LYS:HE3	1.19	1.07
49:BQ:134:ARG:HD2	58:BZ:122:ARG:NH2	1.68	1.07
25:AZ:356:PRO:O	25:AZ:359:VAL:HG23	1.51	1.07
36:BA:94(A):G:H2'	36:BA:95:G:H5''	1.34	1.07
1:CA:736:C:H2'	1:CA:737:A:C8	1.89	1.07
3:CC:22:TRP:HZ3	3:CC:24:ALA:HB2	1.13	1.07
38:DC:23:ASP:HB3	38:DC:27:ARG:HH12	1.17	1.07
24:AY:40:G:H2'	24:AY:41:G:H5''	1.31	1.07
32:B6:27:LYS:HG3	32:B6:30:THR:HB	1.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2012:G:H4'	55:BW:96:ILE:HD11	1.27	1.07
36:BA:2840:C:H5''	50:BR:53:HIS:CD2	1.88	1.07
42:BG:39:ILE:HD11	42:BG:60:LEU:HD11	1.27	1.07
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.15	1.07
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.14	1.06
36:DA:1516:C:H2'	36:DA:1517:G:H5''	1.36	1.06
1:AA:1047:G:H5''	14:AN:4:LYS:HE2	1.37	1.06
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.13	1.06
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.37	1.06
55:BW:8:ARG:HA	55:BW:102:HIS:HB3	1.27	1.06
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.36	1.06
36:DA:2807:G:H3'	36:DA:2808:U:H5''	1.36	1.06
3:AC:22:TRP:HZ3	3:AC:24:ALA:HB2	1.16	1.06
48:BP:9:ASN:H	48:BP:10:PRO:HD2	1.18	1.06
36:DA:925:C:C2'	36:DA:926:A:H5''	1.86	1.06
36:DA:2672:G:H2'	36:DA:2673:G:H5''	1.36	1.06
56:DX:36:LYS:HA	56:DX:39:ILE:HB	1.34	1.06
1:AA:8:A:H62	4:AD:208:SER:HB2	1.19	1.06
32:D6:19:ARG:HD3	36:DA:2400:G:H4'	1.31	1.06
36:BA:2807:G:H3'	36:BA:2808:U:H5''	1.34	1.06
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.14	1.06
56:BX:36:LYS:HA	56:BX:39:ILE:HB	1.34	1.06
25:CZ:138:VAL:HG21	25:CZ:173:GLY:H	0.92	1.06
39:DD:147:LEU:HD11	39:DD:183:ARG:HH12	0.94	1.06
38:BC:23:ASP:HB3	38:BC:27:ARG:HH12	1.13	1.05
25:CZ:355:LEU:HB3	25:CZ:359:VAL:CG2	1.83	1.05
36:DA:833:U:H5''	48:DP:48:PRO:HB3	1.31	1.05
36:DA:1484:G:H2'	36:DA:1485:G:H5''	1.35	1.05
52:DT:55:ASN:H	52:DT:59:THR:HG22	1.19	1.05
25:AZ:355:LEU:HD23	25:AZ:370:PHE:HB3	1.36	1.05
58:BZ:152:ALA:HB1	58:BZ:167:PRO:HB2	1.36	1.05
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.36	1.05
57:DY:96:ILE:HG13	57:DY:99:CYS:HB3	1.34	1.05
1:AA:736:C:H2'	1:AA:737:A:C8	1.91	1.05
1:AA:979:C:H3'	1:AA:980:C:H5''	1.14	1.05
7:AG:12:LEU:HD11	7:AG:25:ALA:HB2	1.38	1.05
36:BA:797:C:H2'	36:BA:798:G:C8	1.92	1.05
35:D9:10:ILE:HD12	35:D9:10:ILE:H	1.17	1.05
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.35	1.05
25:AZ:135:MET:O	25:AZ:138:VAL:HG22	1.56	1.05
26:B0:11:ARG:HB2	26:B0:11:ARG:HH11	1.16	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:582:G:H2'	36:BA:583:G:H8	1.16	1.05
36:BA:925:C:C2'	36:BA:926:A:H5''	1.85	1.05
36:BA:2645:G:H3'	36:BA:2646:C:H5'	1.37	1.05
39:BD:147:LEU:HD11	39:BD:183:ARG:HH12	0.94	1.05
39:DD:147:LEU:CD1	39:DD:183:ARG:HH12	1.68	1.05
1:CA:386:C:H2'	1:CA:387:U:H5'	1.36	1.05
37:DB:80:U:H2'	37:DB:81:G:H21	1.17	1.05
41:DF:29:ASN:HD22	41:DF:32:LEU:HB2	1.17	1.05
36:BA:1710:C:H2'	36:BA:1711:C:H6	1.20	1.04
25:CZ:135:MET:O	25:CZ:138:VAL:HG22	1.55	1.04
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.16	1.04
58:BZ:96:VAL:HG22	58:BZ:97:GLU:H	1.15	1.04
48:DP:9:ASN:H	48:DP:10:PRO:HD2	1.18	1.04
31:D5:4:HIS:HB2	31:D5:5:PRO:HD3	1.31	1.04
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.19	1.04
36:DA:1710:C:H2'	36:DA:1711:C:H6	1.20	1.04
58:DZ:152:ALA:HB1	58:DZ:167:PRO:HB2	1.35	1.04
24:AY:56:C:H2'	24:AY:57:G:H5'	1.38	1.04
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.36	1.04
7:CG:69:VAL:HA	7:CG:138:LYS:HD2	1.39	1.04
10:CJ:54:PHE:C	10:CJ:55:LYS:HE3	1.82	1.04
22:CV:68:C:H2'	22:CV:69:G:H5''	1.39	1.04
39:DD:112:GLN:H	39:DD:115:GLN:NE2	1.56	1.04
1:AA:965:A:H4'	1:AA:966:G:OP1	1.56	1.03
22:AV:68:C:H2'	22:AV:69:G:H5''	1.40	1.03
36:BA:2672:G:H2'	36:BA:2673:G:H5''	1.37	1.03
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.17	1.03
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.18	1.03
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.41	1.03
37:BB:80:U:H2'	37:BB:81:G:H21	1.23	1.03
39:BD:147:LEU:CD1	39:BD:183:ARG:HH12	1.70	1.03
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.37	1.03
36:DA:2833:G:H3'	36:DA:2834:G:C5'	1.88	1.03
1:AA:1491:G:H2'	59:AA:1601:PAR:O31	1.59	1.03
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.18	1.03
36:BA:1516:C:H2'	36:BA:1517:G:H5''	1.37	1.03
19:AS:44:MET:HA	19:AS:47:HIS:HD2	1.22	1.03
28:B2:35:LEU:HD11	28:B2:50:ILE:HG13	1.40	1.03
36:BA:1024:G:H3'	36:BA:1025:G:H5''	1.41	1.03
47:BO:114:ILE:HD12	47:BO:114:ILE:H	1.18	1.03
4:AD:187:ARG:HB3	4:AD:187:ARG:HH11	1.24	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2833:G:H3'	36:BA:2834:G:C5'	1.87	1.03
41:BF:72:ARG:HH11	41:BF:72:ARG:HA	1.20	1.03
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	1.58	1.03
36:DA:582:G:H2'	36:DA:583:G:H8	1.17	1.03
36:DA:797:C:H2'	36:DA:798:G:C8	1.94	1.03
36:DA:1665:A:C2'	36:DA:1666:G:H5''	1.89	1.03
40:DE:167:VAL:HG13	40:DE:170:LEU:HD11	1.40	1.03
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.19	1.03
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.16	1.03
24:AY:61:C:C2'	24:AY:62:U:H5''	1.89	1.02
24:CY:56:C:H2'	24:CY:57:G:H5'	1.37	1.02
10:AJ:54:PHE:C	10:AJ:55:LYS:HE3	1.82	1.02
25:AZ:138:VAL:HG21	25:AZ:173:GLY:N	1.75	1.02
42:BG:163:ALA:HB1	42:BG:169:ALA:HB2	1.39	1.02
57:BY:96:ILE:HG13	57:BY:99:CYS:HB3	1.37	1.02
26:D0:40:GLN:HE22	26:D0:43:THR:HA	1.22	1.02
31:D5:41:PRO:HG2	31:D5:44:THR:OG1	1.58	1.02
1:AA:1423:G:H2'	1:AA:1424:C:C6	1.95	1.02
32:B6:5:VAL:HG11	36:BA:2283:C:H5'	1.37	1.02
35:B9:10:ILE:HD12	35:B9:10:ILE:H	1.21	1.02
5:CE:33:VAL:HG21	5:CE:109:ILE:HG12	1.34	1.02
22:CV:20:U:H3'	22:CV:21:A:H5'	1.39	1.02
36:DA:1024:G:H3'	36:DA:1025:G:H5''	1.41	1.02
36:DA:2185:C:H2'	36:DA:2186:G:H5'	1.41	1.02
1:AA:17:U:H2'	1:AA:18:C:C6	1.95	1.02
14:AN:13:THR:N	14:AN:14:PRO:HD2	1.73	1.02
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.41	1.02
1:CA:1047:G:H5''	14:CN:4:LYS:HE2	1.39	1.02
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.25	1.02
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.23	1.02
56:DX:65:ARG:HG2	56:DX:66:LEU:H	1.25	1.02
26:B0:40:GLN:HE22	26:B0:43:THR:HA	1.23	1.02
55:BW:5:ALA:HB2	55:BW:54:ALA:HB2	1.41	1.02
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.20	1.02
1:CA:17:U:H2'	1:CA:18:C:C6	1.95	1.02
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.41	1.02
2:AB:21:ARG:HB3	2:AB:39:ILE:HG23	1.40	1.01
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.42	1.01
36:BA:1590:U:H2'	36:BA:1591:G:H5''	1.40	1.01
40:BE:167:VAL:HG13	40:BE:170:LEU:HD11	1.39	1.01
32:D6:45:LYS:H	32:D6:45:LYS:HD3	1.24	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:511:U:H3'	36:DA:512:G:H5''	1.39	1.01
39:DD:224:ALA:HB2	39:DD:233:HIS:HB3	1.38	1.01
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.43	1.01
25:AZ:191:GLY:HA3	25:AZ:197:ASP:HB2	1.39	1.01
41:BF:9:ILE:HG12	41:BF:14:PRO:HA	1.43	1.01
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.74	1.01
1:CA:1190:G:H3'	3:CC:3:ASN:HD21	1.22	1.01
7:CG:12:LEU:HD11	7:CG:25:ALA:HB2	1.42	1.01
55:DW:5:ALA:HB2	55:DW:54:ALA:HB2	1.43	1.01
2:AB:200:ILE:HD12	2:AB:200:ILE:H	1.25	1.01
9:AI:52:ALA:HB3	9:AI:95:LYS:HE2	1.41	1.01
31:B5:41:PRO:HG2	31:B5:44:THR:OG1	1.60	1.01
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.21	1.01
24:CY:16:H2U:H5''	24:CY:16:H2U:H61	1.43	1.01
47:DO:114:ILE:HD12	47:DO:114:ILE:H	1.19	1.01
2:AB:87:ARG:HE	2:AB:233:SER:HB3	1.21	1.01
36:BA:582:G:H2'	36:BA:583:G:C8	1.96	1.01
36:BA:2184:G:H2'	36:BA:2185:C:H1'	1.41	1.01
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.75	1.01
36:BA:1380:G:H2'	36:BA:1381:G:H8	1.24	1.01
36:BA:2712:U:H1'	36:BA:2712(A):A:C8	1.96	1.01
57:BY:8:LYS:HD2	57:BY:8:LYS:H	1.21	1.01
2:CB:87:ARG:HE	2:CB:233:SER:HB3	1.20	1.01
3:CC:91:LEU:HD11	3:CC:101:LEU:HD12	1.42	1.01
4:CD:187:ARG:HB3	4:CD:187:ARG:HH11	1.23	1.01
54:DV:4:ILE:HG22	54:DV:39:LEU:HD23	1.39	1.01
5:AE:33:VAL:HG21	5:AE:109:ILE:HG12	1.37	1.00
22:AV:20:U:H3'	22:AV:21:A:H5'	1.40	1.00
24:AY:1:G:H1'	25:AZ:300:ARG:NH2	1.75	1.00
25:AZ:336:SER:OG	25:AZ:355:LEU:HB2	1.59	1.00
34:B8:15:LYS:HD3	48:BP:65:ARG:HH22	1.23	1.00
36:BA:2511:U:H4'	40:BE:124:GLY:HA2	1.41	1.00
14:CN:57:ARG:HB3	14:CN:57:ARG:HH11	1.26	1.00
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.38	1.00
36:BA:1598:C:H5'	56:BX:36:LYS:HG2	1.41	1.00
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.40	1.00
19:CS:44:MET:HA	19:CS:47:HIS:HD2	1.26	1.00
36:DA:1598:C:H5'	56:DX:36:LYS:HG2	1.42	1.00
36:DA:2840:C:H5''	50:DR:53:HIS:CD2	1.95	1.00
48:DP:62:LEU:N	48:DP:62:LEU:HD23	1.76	1.00
1:AA:1483:A:H2	36:BA:1960:A:H1'	1.25	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:57:ARG:HB3	14:AN:57:ARG:HH11	1.24	1.00
27:B1:4:VAL:HG23	27:B1:11:ARG:HG2	1.44	1.00
36:BA:143:G:H4'	56:BX:35:THR:HG21	1.43	1.00
36:BA:740:U:H2'	36:BA:741:G:C8	1.96	1.00
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.27	1.00
36:DA:1590:U:H2'	36:DA:1591:G:H5''	1.39	1.00
52:BT:55:ASN:H	52:BT:59:THR:HG22	1.22	1.00
34:D8:15:LYS:HD3	48:DP:65:ARG:HH22	1.22	1.00
57:DY:8:LYS:HD2	57:DY:8:LYS:H	1.23	1.00
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	1.43	1.00
36:BA:1665:A:C2'	36:BA:1666:G:H5''	1.91	1.00
41:BF:64:ILE:HG23	41:BF:65:TRP:H	1.24	1.00
52:BT:61:PHE:HE2	52:BT:76:PHE:HB2	1.26	1.00
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	1.77	1.00
34:D8:50:LEU:HD12	34:D8:51:ALA:H	1.23	1.00
7:AG:69:VAL:HA	7:AG:138:LYS:HD2	1.42	1.00
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.43	1.00
7:AG:69:VAL:HG11	7:AG:104:LEU:HD21	1.43	0.99
1:CA:78:G:H22	1:CA:91:C:H42	1.00	0.99
10:CJ:78:ASN:HD22	10:CJ:81:THR:HG21	1.25	0.99
36:DA:582:G:H2'	36:DA:583:G:C8	1.97	0.99
36:DA:1092:C:H42	36:DA:1100:C:H42	1.05	0.99
24:AY:16:H2U:H5''	24:AY:16:H2U:H61	1.43	0.99
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.44	0.99
20:CT:73:HIS:HB3	20:CT:74:LYS:HD3	1.45	0.99
52:DT:61:PHE:HE2	52:DT:76:PHE:HB2	1.26	0.99
1:AA:150:C:H2'	1:AA:151:A:H5''	1.44	0.99
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	1.62	0.99
32:B6:45:LYS:H	32:B6:45:LYS:HD3	1.22	0.99
34:B8:50:LEU:HD12	34:B8:51:ALA:H	1.25	0.99
55:BW:36:LEU:H	55:BW:36:LEU:HD23	1.25	0.99
57:DY:67:LEU:HD21	57:DY:71:LYS:HE2	1.42	0.99
1:AA:368:U:C5	25:AZ:234:ARG:HD3	1.97	0.99
22:CW:54:U:H4'	38:DC:54:SER:HB2	1.44	0.99
32:D6:5:VAL:HG11	36:DA:2283:C:H5'	1.41	0.99
36:DA:1465:G:H2'	36:DA:1466:G:H8	1.27	0.99
36:DA:1665:A:H2'	36:DA:1666:G:H5''	1.43	0.99
22:AV:53:G:H1	22:AV:61:C:H42	1.10	0.99
58:BZ:58:VAL:HG22	58:BZ:68:PRO:HA	1.45	0.99
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.45	0.99
57:BY:67:LEU:HD21	57:BY:71:LYS:HE2	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	1.44	0.99
24:CY:61:C:C2'	24:CY:62:U:H5''	1.92	0.99
25:CZ:138:VAL:HG21	25:CZ:173:GLY:N	1.75	0.99
40:DE:199:ARG:HG2	40:DE:200:GLU:H	1.27	0.99
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	1.78	0.99
25:AZ:277:LEU:HD12	25:AZ:280:GLY:H	1.27	0.99
1:CA:155:C:H2'	1:CA:156:G:H8	1.27	0.99
36:DA:2892:A:H62	36:DA:2893:G:H21	1.08	0.99
36:BA:662:G:H2'	36:BA:663:G:H8	1.27	0.99
2:CB:21:ARG:HB3	2:CB:39:ILE:HG23	1.43	0.99
7:CG:69:VAL:HG11	7:CG:104:LEU:HD21	1.44	0.99
36:DA:143:G:H4'	56:DX:35:THR:HG21	1.44	0.99
1:AA:1190:G:H3'	3:AC:3:ASN:HD21	1.27	0.99
41:DF:72:ARG:HH11	41:DF:72:ARG:HA	1.22	0.99
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.43	0.98
11:AK:22:HIS:HB3	11:AK:29:ILE:HG23	1.41	0.98
39:BD:224:ALA:HB2	39:BD:233:HIS:HB3	1.42	0.98
55:DW:36:LEU:H	55:DW:36:LEU:HD23	1.25	0.98
58:DZ:86:VAL:HG12	58:DZ:87:ASP:H	1.26	0.98
25:AZ:189:ARG:CG	25:AZ:190:ARG:H	1.75	0.98
36:BA:523:C:H2'	36:BA:524:U:H5'	1.45	0.98
36:DA:710:G:H2'	36:DA:711:G:H8	1.26	0.98
36:DA:2184:G:H2'	36:DA:2185:C:H1'	1.42	0.98
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.44	0.98
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.28	0.98
36:BA:1665:A:H2'	36:BA:1666:G:H5''	1.45	0.98
42:BG:34:LEU:HA	42:BG:161:THR:HG22	1.45	0.98
58:BZ:10:ARG:HE	58:BZ:36:LYS:HB2	1.24	0.98
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	1.45	0.98
7:AG:108:ALA:O	7:AG:111:ARG:HB2	1.62	0.98
48:BP:62:LEU:N	48:BP:62:LEU:HD23	1.78	0.98
36:DA:1067:A:H3'	36:DA:1068:G:H5''	1.46	0.98
41:DF:9:ILE:HG12	41:DF:14:PRO:HA	1.41	0.98
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.44	0.98
30:B4:22:ILE:HD12	30:B4:22:ILE:H	1.28	0.98
36:BA:2892:A:H62	36:BA:2893:G:H21	1.07	0.98
43:BH:37:VAL:HG12	43:BH:38:SER:H	1.26	0.98
36:DA:862:G:H2'	36:DA:863:A:O4'	1.63	0.98
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.43	0.98
14:CN:13:THR:N	14:CN:14:PRO:HD2	1.76	0.98
25:CZ:191:GLY:HA3	25:CZ:197:ASP:HB2	1.40	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:15:LYS:HD3	48:BP:65:ARG:NH2	1.78	0.98
43:BH:33:LEU:HD12	43:BH:75:ALA:HA	1.45	0.98
1:AA:962:C:H42	1:AA:974:A:H61	1.11	0.98
4:AD:30:LYS:C	4:AD:32:ALA:H	1.69	0.98
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.45	0.98
36:DA:17:G:H22	36:DA:524:U:H1'	1.26	0.98
39:DD:261:LYS:NZ	39:DD:263:ARG:HB2	1.77	0.98
40:BE:199:ARG:HG2	40:BE:200:GLU:H	1.28	0.98
1:CA:1305:G:N2	1:CA:1331:G:H2'	1.79	0.98
36:DA:271(P):C:H2'	36:DA:271(Q):G:H5'	1.44	0.98
43:DH:37:VAL:HG12	43:DH:38:SER:H	1.29	0.98
42:BG:7:LEU:HB3	42:BG:100:TRP:HE3	1.29	0.98
4:CD:108:LEU:HD11	4:CD:176:LEU:HD13	1.43	0.98
36:DA:27:G:N2	36:DA:512:G:H2'	1.78	0.98
27:B1:45:ASN:HB3	27:B1:64:ALA:HB2	1.45	0.97
28:B2:6:VAL:HA	28:B2:9:GLN:HB2	1.46	0.97
36:BA:2761:G:C2'	36:BA:2762:G:H5''	1.93	0.97
54:BV:4:ILE:HG22	54:BV:39:LEU:HD23	1.42	0.97
1:CA:1205:U:H4'	3:CC:195:VAL:HG21	1.43	0.97
1:CA:1440:C:H1'	1:CA:1462:G:N2	1.77	0.97
8:CH:30:ARG:HB3	8:CH:30:ARG:NH1	1.79	0.97
36:DA:271(L):U:H5''	36:DA:271(M):G:H5'	1.45	0.97
10:AJ:78:ASN:HD22	10:AJ:81:THR:HG21	1.26	0.97
25:AZ:259:ALA:HB1	25:AZ:260:PRO:HD2	1.45	0.97
28:B2:51:ARG:HD3	28:B2:55:ARG:NH2	1.79	0.97
36:BA:1394:U:H4'	36:BA:1603:A:H4'	1.45	0.97
39:BD:112:GLN:H	39:BD:115:GLN:NE2	1.62	0.97
39:BD:166:GLN:HA	39:BD:166:GLN:HE21	1.27	0.97
36:DA:2511:U:H4'	40:DE:124:GLY:HA2	1.47	0.97
1:CA:979:C:H3'	1:CA:980:C:C5'	1.93	0.97
36:DA:740:U:H2'	36:DA:741:G:C8	1.99	0.97
36:DA:1380:G:H2'	36:DA:1381:G:H8	1.27	0.97
37:DB:7:G:H3'	37:DB:8:U:H5''	1.46	0.97
57:DY:95:LYS:HG3	57:DY:100:ALA:HA	1.43	0.97
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.27	0.97
3:AC:26:LYS:HG3	3:AC:27:LYS:HG3	1.45	0.97
36:DA:1759:A:H2'	36:DA:1760:A:C8	1.99	0.97
14:AN:22:THR:HB	14:AN:33:VAL:HG21	1.46	0.97
36:BA:266:G:H2'	36:BA:267:C:H5''	1.44	0.97
36:BA:598:G:H5'	48:BP:15:ARG:HD3	1.47	0.97
47:BO:2:ILE:HD11	47:BO:82:ASN:ND2	1.80	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:662:G:H2'	36:DA:663:G:H8	1.26	0.97
36:DA:2506:U:H5'	36:DA:2506:U:C6	2.00	0.97
39:DD:166:GLN:HA	39:DD:166:GLN:HE21	1.25	0.97
36:BA:1067:A:H3'	36:BA:1068:G:H5''	1.45	0.97
2:CB:200:ILE:HD12	2:CB:200:ILE:H	1.30	0.97
25:CZ:72:THR:HG22	25:CZ:203:LEU:HD23	1.43	0.97
34:D8:15:LYS:HD3	48:DP:65:ARG:NH2	1.77	0.97
36:DA:266:G:H2'	36:DA:267:C:H5''	1.44	0.97
38:DC:42:GLU:HB2	38:DC:215:THR:HG23	1.45	0.97
38:DC:82:LYS:HG3	38:DC:147:PHE:HD1	1.29	0.97
40:DE:120:TRP:CD1	40:DE:155:LYS:HB3	1.98	0.97
36:BA:1494:A:H2'	36:BA:1495:A:H5''	1.44	0.97
36:BA:1759:A:H2'	36:BA:1760:A:H8	1.29	0.97
9:CI:52:ALA:HB3	9:CI:95:LYS:HE2	1.42	0.97
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.46	0.97
36:BA:695:G:OP1	36:BA:1380:G:H4'	1.64	0.97
52:BT:24:PRO:HD3	52:BT:52:ILE:HD12	1.47	0.97
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.79	0.97
36:BA:27:G:N2	36:BA:512:G:H2'	1.79	0.97
36:BA:2640:G:H2'	36:BA:2641:G:H5''	1.47	0.97
42:BG:52:ILE:HD13	42:BG:52:ILE:H	1.29	0.97
52:BT:58:ASN:ND2	52:BT:58:ASN:H	1.63	0.97
1:CA:1305:G:HO2'	1:CA:1306:A:H8	1.01	0.97
14:CN:22:THR:HB	14:CN:33:VAL:HG21	1.45	0.97
25:CZ:259:ALA:HB1	25:CZ:260:PRO:HD2	1.46	0.97
32:D6:19:ARG:HG3	32:D6:20:ASN:H	1.28	0.97
36:BA:1759:A:H2'	36:BA:1760:A:C8	1.98	0.97
43:BH:20:ALA:HB3	43:BH:23:ARG:HB2	1.45	0.97
36:DA:459:U:H2'	36:DA:460:A:H8	1.29	0.97
42:DG:131:TYR:HE2	42:DG:133:LEU:HB3	1.30	0.97
1:AA:979:C:H3'	1:AA:980:C:C5'	1.93	0.96
36:BA:1494:A:C2'	36:BA:1495:A:H5''	1.95	0.96
37:BB:7:G:H3'	37:BB:8:U:H5''	1.47	0.96
39:BD:261:LYS:NZ	39:BD:263:ARG:HB2	1.79	0.96
40:BE:36:ARG:NH2	40:BE:88:GLY:HA2	1.79	0.96
3:CC:26:LYS:HG3	3:CC:27:LYS:HG3	1.46	0.96
11:CK:22:HIS:HB3	11:CK:29:ILE:HG23	1.42	0.96
25:CZ:277:LEU:HD12	25:CZ:280:GLY:H	1.28	0.96
36:BA:2185:C:H2'	36:BA:2186:G:H5'	1.44	0.96
36:BA:2822:G:H2'	36:BA:2823:A:H5''	1.47	0.96
36:DA:1378:A:H4'	36:DA:1379:A:OP1	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:198:VAL:HG12	40:DE:199:ARG:H	1.26	0.96
36:BA:1465:G:H2'	36:BA:1466:G:H8	1.28	0.96
10:CJ:43:ARG:HB2	10:CJ:67:THR:CG2	1.95	0.96
1:AA:1205:U:H4'	3:AC:195:VAL:HG21	1.45	0.96
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.44	0.96
36:DA:2761:G:C2'	36:DA:2762:G:H5''	1.95	0.96
25:AZ:388:ILE:O	25:AZ:395:VAL:HG22	1.64	0.96
50:BR:99:LYS:HD2	50:BR:99:LYS:H	1.27	0.96
3:CC:22:TRP:CZ3	3:CC:24:ALA:HB2	2.00	0.96
52:DT:82:LEU:HD12	52:DT:82:LEU:H	1.27	0.96
1:AA:155:C:H2'	1:AA:156:G:H8	1.30	0.96
9:AI:48:GLU:HA	9:AI:51:ARG:HD2	1.44	0.96
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.46	0.96
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	1.80	0.96
25:CZ:355:LEU:HD23	25:CZ:370:PHE:HB3	1.43	0.96
28:D2:69:ARG:NH2	36:DA:111:A:H4'	1.80	0.96
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.45	0.96
36:BA:1177:A:H5'	36:BA:1178:C:C6	2.01	0.96
1:CA:982:U:H4'	1:CA:983:A:O5'	1.64	0.96
43:DH:85:LYS:HZ3	43:DH:133:VAL:H	1.08	0.96
32:B6:19:ARG:HG3	32:B6:20:ASN:H	1.27	0.96
50:BR:96:ARG:HH12	50:BR:117:VAL:HG23	1.30	0.96
42:DG:60:LEU:HD13	42:DG:63:ILE:HD11	1.44	0.96
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	1.80	0.96
10:AJ:50:ILE:HD13	10:AJ:50:ILE:H	1.28	0.96
25:AZ:189:ARG:HG3	25:AZ:190:ARG:N	1.76	0.96
38:BC:127:LEU:CD2	38:BC:130:ILE:HD12	1.96	0.96
40:BE:120:TRP:CD1	40:BE:155:LYS:HB3	2.00	0.96
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.48	0.96
52:BT:82:LEU:HD12	52:BT:82:LEU:H	1.27	0.96
36:DA:1177:A:H5'	36:DA:1178:C:C6	2.01	0.96
24:AY:11:C:H2'	24:AY:12:U:H5''	1.45	0.96
52:BT:28:VAL:O	52:BT:29:ARG:HD3	1.64	0.96
36:DA:2306:C:H4'	42:DG:136:ARG:NH2	1.81	0.96
36:DA:2306:C:H4'	42:DG:136:ARG:HH22	1.29	0.96
43:DH:33:LEU:HD12	43:DH:75:ALA:HA	1.47	0.96
48:DP:39:LYS:HE2	48:DP:42:SER:HB3	1.47	0.96
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.44	0.95
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.44	0.95
40:BE:77:ILE:HG22	40:BE:78:LEU:H	1.29	0.95
57:BY:95:LYS:HG3	57:BY:100:ALA:HA	1.43	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:452:A:O2'	1:CA:453:A:H5''	1.66	0.95
7:CG:108:ALA:O	7:CG:111:ARG:HB2	1.65	0.95
28:D2:2:LYS:HB3	36:DA:97:C:H5''	1.46	0.95
36:DA:1394:U:H4'	36:DA:1603:A:H4'	1.46	0.95
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.47	0.95
1:AA:78:G:H22	1:AA:91:C:H42	1.03	0.95
36:BA:330:A:H2	36:BA:1210:A:H2'	1.31	0.95
1:CA:864:A:H5'	1:CA:865:A:OP2	1.65	0.95
24:CY:11:C:H2'	24:CY:12:U:H5''	1.46	0.95
36:DA:1058:G:H2'	36:DA:1059:G:H5''	1.46	0.95
1:AA:18:C:H5''	5:AE:127:ASN:HD21	1.29	0.95
28:B2:69:ARG:HH12	36:BA:111:A:H4'	1.31	0.95
38:DC:74:VAL:HA	38:DC:112:ALA:HB3	1.46	0.95
52:DT:24:PRO:HD3	52:DT:52:ILE:HD12	1.46	0.95
36:BA:459:U:H2'	36:BA:460:A:H8	1.32	0.95
36:BA:710:G:H2'	36:BA:711:G:H8	1.26	0.95
1:CA:965:A:H4'	1:CA:966:G:OP1	1.62	0.95
30:D4:22:ILE:HD12	30:D4:22:ILE:H	1.29	0.95
52:DT:28:VAL:O	52:DT:29:ARG:HD3	1.66	0.95
1:AA:438:G:H5'	4:AD:123:HIS:HD1	1.31	0.95
1:AA:1483:A:C2	36:BA:1960:A:H1'	2.00	0.95
58:BZ:19:ARG:HA	58:BZ:23:LYS:O	1.65	0.95
1:CA:1190:G:H3'	3:CC:3:ASN:ND2	1.80	0.95
21:CU:9:ARG:NH1	21:CU:22:ARG:HG3	1.82	0.95
36:DA:523:C:H2'	36:DA:524:U:H5'	1.45	0.95
46:BN:26:LEU:HD11	46:BN:30:ILE:HD11	1.46	0.95
52:BT:61:PHE:CE2	52:BT:76:PHE:HB2	2.01	0.95
6:CF:56:PRO:HG2	6:CF:57:GLN:HE21	1.30	0.95
58:DZ:33:LEU:HD12	58:DZ:34:ASN:N	1.81	0.95
28:B2:13:ALA:HA	28:B2:16:LEU:HD12	1.47	0.95
36:BA:1092:C:H42	36:BA:1100:C:H42	1.03	0.95
38:BC:42:GLU:HB2	38:BC:215:THR:HG23	1.45	0.95
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.28	0.95
1:CA:962:C:H42	1:CA:974:A:H61	1.09	0.95
4:CD:131:ARG:H	4:CD:131:ARG:HD3	1.30	0.95
25:CZ:388:ILE:O	25:CZ:395:VAL:HG22	1.66	0.95
40:DE:77:ILE:HG22	40:DE:78:LEU:H	1.28	0.95
36:BA:1058:G:H2'	36:BA:1059:G:H5''	1.49	0.95
36:BA:1887:C:C2'	36:BA:1888:G:H5''	1.96	0.95
43:BH:101:ARG:HG2	43:BH:117:PRO:HG3	1.49	0.95
51:BS:106:ARG:HH11	51:BS:107:GLU:H	0.98	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:65:ARG:HG2	56:BX:66:LEU:H	1.27	0.95
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.45	0.95
5:CE:110:LEU:HD22	5:CE:115:VAL:HG21	1.48	0.95
12:CL:113:ARG:HB3	12:CL:122:THR:HG21	1.47	0.95
36:DA:2631:G:N2	40:DE:61:ARG:HH12	1.64	0.95
43:DH:20:ALA:HB3	43:DH:23:ARG:HB2	1.47	0.95
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	1.81	0.95
25:AZ:72:THR:HG22	25:AZ:203:LEU:HD23	1.45	0.95
36:BA:2887:U:H2'	36:BA:2888:C:H6	1.31	0.95
37:BB:91:C:H5'	49:BQ:17:LEU:O	1.64	0.95
36:DA:2822:G:H2'	36:DA:2823:A:H5''	1.48	0.95
39:DD:43:ARG:HD2	39:DD:44:ASN:OD1	1.66	0.95
25:AZ:174:SER:OG	25:AZ:177:LEU:HD13	1.66	0.95
36:BA:2506:U:H5'	36:BA:2506:U:C6	2.00	0.95
36:BA:2631:G:N2	40:BE:61:ARG:HH12	1.63	0.95
37:BB:55:U:H2'	37:BB:56:G:C8	2.02	0.95
32:D6:6:ARG:HB3	32:D6:6:ARG:NH1	1.80	0.95
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	1.49	0.95
1:AA:386:C:C2'	1:AA:387:U:H5'	1.97	0.94
36:BA:271(P):C:H2'	36:BA:271(Q):G:H5'	1.45	0.94
36:BA:862:G:H2'	36:BA:863:A:O4'	1.65	0.94
36:DA:997:G:OP1	53:DU:93:LYS:HD3	1.67	0.94
36:DA:1759:A:H2'	36:DA:1760:A:H8	1.32	0.94
58:DZ:10:ARG:HB3	58:DZ:36:LYS:HB2	1.49	0.94
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.30	0.94
27:B1:3:LYS:HA	36:BA:1365:A:OP2	1.67	0.94
36:BA:997:G:OP1	53:BU:93:LYS:HD3	1.66	0.94
42:BG:36:LYS:HA	42:BG:99:MET:SD	2.07	0.94
16:CP:14:ASN:HA	16:CP:42:ARG:HH12	1.30	0.94
36:DA:2640:G:H2'	36:DA:2641:G:H5''	1.48	0.94
36:DA:2712:U:H1'	36:DA:2712(A):A:C8	2.02	0.94
36:DA:2887:U:H2'	36:DA:2888:C:H6	1.31	0.94
7:AG:42:ILE:HG23	7:AG:117:ALA:HA	1.50	0.94
22:AW:17:C:N4	36:BA:2110:G:H21	1.63	0.94
36:BA:271(L):U:H5''	36:BA:271(M):G:H5'	1.47	0.94
36:BA:1243:G:H2'	36:BA:1244:G:H5''	1.49	0.94
41:BF:29:ASN:ND2	41:BF:32:LEU:HB2	1.82	0.94
43:BH:83:TYR:HB2	43:BH:135:GLY:H	1.32	0.94
13:CM:108:ARG:N	13:CM:108:ARG:HD2	1.80	0.94
36:DA:1494:A:H2'	36:DA:1495:A:H5''	1.47	0.94
53:DU:61:TRP:O	53:DU:65:ILE:HD13	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:112:ARG:NH1	54:DV:46:VAL:HG11	1.81	0.94
22:CV:53:G:H1	22:CV:61:C:H42	1.08	0.94
51:DS:106:ARG:HH11	51:DS:107:GLU:H	1.00	0.94
24:AY:48:C:H2'	24:AY:59:A:H1'	1.50	0.94
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	1.45	0.94
31:D5:27:PRO:HG3	55:DW:23:LEU:HD11	1.49	0.94
47:DO:47:ILE:HG23	47:DO:48:PRO:HD2	1.45	0.94
52:DT:61:PHE:CE2	52:DT:76:PHE:HB2	2.01	0.94
36:BA:1484:G:C2'	36:BA:1485:G:H5''	1.97	0.94
36:BA:1543:C:H3'	36:BA:1544:A:H5''	1.47	0.94
39:BD:35:LYS:HG2	39:BD:63:ARG:HG2	1.49	0.94
9:CI:48:GLU:HA	9:CI:51:ARG:HD2	1.48	0.94
10:CJ:44:VAL:HG12	10:CJ:46:ARG:HG2	1.50	0.94
36:DA:1484:G:C2'	36:DA:1485:G:H5''	1.97	0.94
10:AJ:43:ARG:HB2	10:AJ:67:THR:CG2	1.98	0.94
40:BE:24:THR:HG21	40:BE:188:VAL:HG11	1.50	0.94
1:CA:368:U:C5	25:CZ:234:ARG:HD3	2.02	0.94
34:D8:62:LEU:HD13	36:DA:242:G:H3'	1.50	0.94
36:DA:17:G:N2	36:DA:524:U:H1'	1.82	0.94
41:DF:24:LEU:HB3	41:DF:25:PRO:HD2	1.48	0.94
42:DG:51:ARG:NE	42:DG:51:ARG:HA	1.78	0.94
1:AA:1470:G:H2'	1:AA:1471:G:C8	2.02	0.94
36:BA:2645:G:H3'	36:BA:2646:C:C5'	1.98	0.94
38:BC:74:VAL:HA	38:BC:112:ALA:HB3	1.47	0.94
41:BF:24:LEU:HB3	41:BF:25:PRO:HD2	1.50	0.94
2:CB:107:THR:HG23	2:CB:110:GLN:NE2	1.83	0.94
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.33	0.94
25:CZ:246:LYS:HB3	25:CZ:281:ILE:HG22	1.49	0.94
42:DG:37:VAL:HG22	42:DG:159:VAL:HG23	1.48	0.94
25:AZ:246:LYS:HB3	25:AZ:281:ILE:HG22	1.48	0.94
51:BS:106:ARG:NH1	51:BS:107:GLU:H	1.64	0.94
1:CA:150:C:H2'	1:CA:151:A:H5''	1.45	0.94
36:DA:1887:C:C2'	36:DA:1888:G:H5''	1.96	0.94
52:DT:58:ASN:ND2	52:DT:58:ASN:H	1.62	0.94
27:B1:41:ARG:HH22	36:BA:1365:A:H5''	0.79	0.94
56:DX:12:VAL:CG2	56:DX:13:LEU:H	1.80	0.94
3:AC:22:TRP:CZ3	3:AC:24:ALA:HB2	2.02	0.93
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.32	0.93
36:BA:17:G:H22	36:BA:524:U:H1'	1.31	0.93
4:CD:30:LYS:C	4:CD:32:ALA:H	1.69	0.93
36:DA:695:G:OP1	36:DA:1380:G:H4'	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:101:ARG:HG2	43:DH:117:PRO:HG3	1.50	0.93
1:AA:368:U:OP2	25:AZ:291:ARG:HD3	1.68	0.93
14:AN:57:ARG:HH11	14:AN:57:ARG:CB	1.81	0.93
36:DA:1785:A:OP2	36:DA:1982:C:H5'	1.68	0.93
1:AA:982:U:H4'	1:AA:983:A:O5'	1.66	0.93
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.32	0.93
41:BF:6:VAL:HG12	41:BF:7:TYR:H	1.33	0.93
1:CA:386:C:C2'	1:CA:387:U:H5'	1.98	0.93
27:D1:44:PRO:HG2	27:D1:46:LEU:CD2	1.98	0.93
40:DE:24:THR:HG21	40:DE:188:VAL:HG11	1.51	0.93
41:DF:29:ASN:ND2	41:DF:32:LEU:HB2	1.83	0.93
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.68	0.93
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.04	0.93
2:AB:61:LEU:HA	2:AB:64:ARG:NE	1.83	0.93
34:B8:49:VAL:HG12	34:B8:53:PRO:HD3	1.49	0.93
49:BQ:45:GLN:H	49:BQ:45:GLN:NE2	1.66	0.93
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HD3	1.82	0.93
16:CP:67:THR:H	16:CP:70:ALA:HB3	1.32	0.93
24:CY:1:G:H1'	25:CZ:300:ARG:NH2	1.83	0.93
36:BA:2181:G:H2'	36:BA:2182:G:H8	1.31	0.93
36:DA:330:A:H2	36:DA:1210:A:H2'	1.31	0.93
48:DP:57:THR:OG1	48:DP:59:LEU:HB3	1.69	0.93
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	1.46	0.93
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	1.50	0.93
12:AL:113:ARG:HB3	12:AL:122:THR:HG21	1.51	0.93
27:B1:87:PRO:HA	27:B1:90:ILE:HG12	1.47	0.93
36:DA:1516:C:C2'	36:DA:1517:G:H5''	1.98	0.93
36:DA:1543:C:H3'	36:DA:1544:A:H5''	1.48	0.93
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.29	0.93
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	1.83	0.93
32:B6:45:LYS:CD	32:B6:45:LYS:N	2.30	0.93
51:BS:106:ARG:HH11	51:BS:107:GLU:N	1.67	0.93
5:CE:147:ASP:HA	5:CE:150:ARG:HH11	1.31	0.93
29:D3:8:LEU:HD12	29:D3:28:LEU:HB2	1.49	0.93
36:DA:1689:A:H62	36:DA:1698:A:H2	1.08	0.93
1:AA:831:U:H2'	1:AA:832:C:C6	2.04	0.93
34:B8:62:LEU:HD13	36:BA:242:G:H3'	1.51	0.93
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.29	0.93
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.33	0.93
29:D3:6:VAL:HB	29:D3:54:VAL:HG11	1.50	0.93
32:D6:45:LYS:CD	32:D6:45:LYS:N	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:44:VAL:HG12	43:DH:45:VAL:H	1.34	0.93
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.03	0.93
5:AE:147:ASP:HA	5:AE:150:ARG:HH11	1.31	0.93
7:AG:24:THR:HA	7:AG:27:ILE:HD12	1.50	0.93
25:AZ:264:ARG:HH11	25:AZ:264:ARG:CG	1.81	0.93
36:BA:1222:C:H2'	36:BA:1223:G:H5''	1.49	0.93
46:BN:75:TYR:HD1	46:BN:82:LEU:HB2	1.32	0.93
17:CQ:68:ARG:O	17:CQ:70:ARG:HD2	1.68	0.93
36:DA:1243:G:H2'	36:DA:1244:G:H5''	1.50	0.93
36:DA:2645:G:H3'	36:DA:2646:C:C5'	1.99	0.93
4:AD:108:LEU:HD11	4:AD:176:LEU:HD13	1.51	0.93
6:AF:56:PRO:HG2	6:AF:57:GLN:HE21	1.32	0.93
1:CA:346:G:H5'	52:DT:41:ARG:HH21	1.34	0.93
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.33	0.92
36:BA:1378:A:H4'	36:BA:1379:A:OP1	1.66	0.92
42:BG:21:ARG:NH2	42:BG:22:ARG:HA	1.84	0.92
4:CD:187:ARG:HB3	4:CD:187:ARG:NH1	1.84	0.92
25:CZ:355:LEU:HD22	25:CZ:359:VAL:HB	1.49	0.92
36:DA:2181:G:H2'	36:DA:2182:G:H8	1.32	0.92
51:DS:106:ARG:NH1	51:DS:107:GLU:H	1.66	0.92
21:AU:9:ARG:NH1	21:AU:22:ARG:HG3	1.83	0.92
40:BE:198:VAL:HG12	40:BE:199:ARG:H	1.31	0.92
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.49	0.92
22:CV:41:C:O2	22:CV:41:C:H2'	1.69	0.92
36:DA:1378:A:O2'	36:DA:1379:A:H5'	1.69	0.92
43:DH:83:TYR:HB2	43:DH:135:GLY:H	1.32	0.92
50:DR:96:ARG:HH12	50:DR:117:VAL:HG23	1.33	0.92
57:DY:86:ARG:HB3	57:DY:88:LYS:HZ1	1.32	0.92
1:AA:1124:G:H21	1:AA:1126:U:H3	1.15	0.92
57:BY:13:VAL:HG13	57:BY:14:LEU:H	1.34	0.92
38:DC:127:LEU:CD2	38:DC:130:ILE:HD12	1.98	0.92
56:DX:30:VAL:HG11	56:DX:39:ILE:HD11	1.51	0.92
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.51	0.92
19:AS:51:VAL:HG23	19:AS:60:VAL:HG11	1.52	0.92
36:BA:1689:A:H62	36:BA:1698:A:H2	1.07	0.92
38:BC:82:LYS:HG3	38:BC:147:PHE:HD1	1.28	0.92
38:BC:206:GLY:HA3	38:BC:210:ARG:HH22	1.34	0.92
42:BG:117:PHE:O	42:BG:118:ARG:HG3	1.69	0.92
43:BH:85:LYS:HZ3	43:BH:133:VAL:H	1.17	0.92
55:BW:12:ILE:HD12	55:BW:42:ARG:NH1	1.84	0.92
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:121:LEU:HD21	2:CB:127:ILE:HD11	1.50	0.92
28:D2:38:GLN:HB3	28:D2:44:LEU:CD1	1.99	0.92
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.68	0.92
1:AA:979:C:C3'	1:AA:980:C:H5''	1.98	0.92
7:CG:42:ILE:HG23	7:CG:117:ALA:HA	1.50	0.92
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.51	0.92
10:CJ:65:LEU:HD13	14:CN:56:VAL:N	1.84	0.92
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.50	0.92
24:CY:56:C:C2'	24:CY:57:G:H5'	1.97	0.92
36:DA:1222:C:H2'	36:DA:1223:G:H5''	1.49	0.92
38:DC:96:GLY:HA3	38:DC:99:ILE:HG12	1.50	0.92
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.34	0.92
4:AD:100:ARG:HH21	4:AD:118:ARG:HH12	0.95	0.92
5:AE:100:VAL:HG23	5:AE:107:ARG:HH21	1.34	0.92
10:AJ:44:VAL:HG12	10:AJ:46:ARG:HG2	1.49	0.92
36:BA:2502:G:H5''	36:BA:2503:A:C5'	1.99	0.92
38:BC:100:ILE:HG21	38:BC:126:LYS:HB3	1.50	0.92
46:BN:24:GLY:H	46:BN:27:ALA:H	1.17	0.92
48:BP:57:THR:OG1	48:BP:59:LEU:HB3	1.69	0.92
53:BU:70:ARG:HA	53:BU:74:LEU:O	1.70	0.92
1:CA:376:G:H2'	1:CA:377:G:H8	1.35	0.92
1:CA:1124:G:H21	1:CA:1126:U:H3	1.14	0.92
4:CD:100:ARG:HH21	4:CD:118:ARG:HH12	0.94	0.92
36:DA:144:C:H2'	36:DA:145:G:C8	2.05	0.92
36:BA:1095:A:H2'	36:BA:1096:A:H8	1.35	0.92
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.92
36:DA:144:C:H2'	36:DA:145:G:H8	1.30	0.92
36:DA:2161:C:H2'	36:DA:2162:G:H8	1.34	0.92
49:DQ:45:GLN:H	49:DQ:45:GLN:NE2	1.66	0.92
10:AJ:91:PRO:HB2	10:AJ:94:VAL:HB	1.51	0.92
46:DN:75:TYR:HD1	46:DN:82:LEU:HB2	1.33	0.92
36:BA:2262:U:H2'	36:BA:2263:C:C6	2.05	0.92
43:BH:44:VAL:HG12	43:BH:45:VAL:H	1.32	0.92
55:BW:11:ARG:NH1	55:BW:98:LYS:HB3	1.84	0.92
1:CA:744:C:H2'	1:CA:745:C:H6	1.31	0.92
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.34	0.92
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.51	0.92
36:DA:2385:C:H2'	36:DA:2386:C:C6	2.05	0.92
36:DA:2502:G:H5''	36:DA:2503:A:C5'	1.98	0.92
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.05	0.92
8:AH:109:ILE:HG12	8:AH:110:ALA:N	1.83	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1578:U:H2'	36:BA:1579:A:H5''	1.50	0.92
38:BC:96:GLY:HA3	38:BC:99:ILE:HG12	1.50	0.92
3:CC:95:THR:HG22	3:CC:97:LYS:HG3	1.52	0.92
14:CN:57:ARG:HH11	14:CN:57:ARG:CB	1.83	0.92
36:DA:598:G:H5'	48:DP:15:ARG:HD3	1.50	0.92
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.34	0.91
26:B0:16:SER:OG	36:BA:2261:C:H3'	1.70	0.91
38:BC:127:LEU:HD23	38:BC:130:ILE:HD12	1.51	0.91
39:BD:65:ILE:HD13	39:BD:65:ILE:H	1.34	0.91
34:D8:10:ALA:HB2	48:DP:61:ARG:NH1	1.85	0.91
36:DA:2464:C:HO2'	36:DA:2465:C:H6	1.12	0.91
50:DR:99:LYS:HD2	50:DR:99:LYS:H	1.31	0.91
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.34	0.91
57:BY:46:LYS:HB2	57:BY:62:GLU:CG	2.00	0.91
1:CA:18:C:H5''	5:CE:127:ASN:HD21	1.32	0.91
27:D1:25:LYS:HD2	36:DA:388:G:H4'	1.52	0.91
36:DA:1578:U:H2'	36:DA:1579:A:H5''	1.51	0.91
40:DE:36:ARG:NH2	40:DE:88:GLY:HA2	1.84	0.91
41:DF:181:LEU:HD11	41:DF:186:ILE:HD11	1.50	0.91
46:DN:26:LEU:HD11	46:DN:30:ILE:HD11	1.49	0.91
20:AT:104:LEU:HD23	20:AT:105:SER:H	1.34	0.91
32:B6:53:LYS:CD	32:B6:54:ILE:H	1.82	0.91
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.05	0.91
32:D6:45:LYS:H	32:D6:45:LYS:HD2	1.35	0.91
57:DY:46:LYS:HB2	57:DY:62:GLU:CG	1.99	0.91
2:AB:121:LEU:HD21	2:AB:127:ILE:HD11	1.52	0.91
16:AP:14:ASN:HA	16:AP:42:ARG:HH12	1.34	0.91
24:AY:56:C:C2'	24:AY:57:G:H5'	2.00	0.91
27:B1:25:LYS:HD2	36:BA:388:G:H4'	1.52	0.91
27:B1:50:ARG:HG2	27:B1:59:THR:HG22	1.52	0.91
28:B2:38:GLN:O	28:B2:41:ILE:HG12	1.71	0.91
29:B3:15:TYR:HD2	29:B3:19:GLN:HE22	1.18	0.91
1:CA:8:A:N6	4:CD:208:SER:HB2	1.85	0.91
38:DC:30:LYS:HE2	38:DC:180:PHE:O	1.70	0.91
1:AA:1190:G:H3'	3:AC:3:ASN:ND2	1.84	0.91
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.34	0.91
22:AV:68:C:C2'	22:AV:69:G:H5''	2.00	0.91
36:BA:144:C:H2'	36:BA:145:G:H8	1.34	0.91
2:CB:209:ARG:NH1	2:CB:239:VAL:HG11	1.86	0.91
10:CJ:91:PRO:HB2	10:CJ:94:VAL:HB	1.51	0.91
31:D5:3:LYS:HA	31:D5:3:LYS:HE3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:206:ILE:HG22	41:DF:207:GLY:H	1.36	0.91
42:DG:43:LEU:HD12	42:DG:45:GLU:OE1	1.70	0.91
24:AY:6:U:H2'	24:AY:7:A:H5''	1.52	0.91
36:BA:2068:U:N3	36:BA:2430:A:H2	1.68	0.91
36:BA:2161:C:H2'	36:BA:2162:G:H8	1.32	0.91
1:CA:979:C:C3'	1:CA:980:C:H5''	2.00	0.91
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.53	0.91
38:DC:127:LEU:HD23	38:DC:130:ILE:HD12	1.52	0.91
10:AJ:16:LEU:HD11	10:AJ:70:ARG:CG	2.00	0.91
22:AV:41:C:H2'	22:AV:41:C:O2	1.71	0.91
56:BX:35:THR:HG22	56:BX:37:THR:H	1.36	0.91
7:CG:144:MET:HE1	22:CW:31:A:H1'	1.53	0.91
24:CY:48:C:H2'	24:CY:59:A:H1'	1.50	0.91
36:DA:372:G:N2	36:DA:400:G:H2'	1.85	0.91
38:DC:100:ILE:HG21	38:DC:126:LYS:HB3	1.53	0.91
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.34	0.91
13:AM:10:PRO:O	13:AM:11:ARG:HB2	1.71	0.91
36:BA:2068:U:H3	36:BA:2430:A:H2	1.14	0.91
41:BF:153:SER:HA	41:BF:172:TRP:HB2	1.51	0.91
52:BT:10:VAL:O	52:BT:13:ARG:HG2	1.70	0.91
57:BY:86:ARG:HG2	57:BY:87:LYS:H	1.36	0.91
1:CA:1116:C:C2'	1:CA:1117:G:H5''	1.99	0.91
36:DA:1494:A:C2'	36:DA:1495:A:H5''	1.99	0.91
37:DB:43:C:OP1	42:DG:67:LYS:HE2	1.69	0.91
52:DT:10:VAL:O	52:DT:13:ARG:HG2	1.71	0.91
58:DZ:70:LEU:HD21	58:DZ:91:LEU:HD21	1.52	0.91
56:BX:12:VAL:CG2	56:BX:13:LEU:H	1.83	0.91
57:BY:77:PRO:HB2	57:BY:99:CYS:SG	2.10	0.91
10:CJ:16:LEU:HD11	10:CJ:70:ARG:CG	2.00	0.91
36:BA:740:U:H2'	36:BA:741:G:H8	1.28	0.91
40:BE:57:LYS:HA	40:BE:57:LYS:CE	2.01	0.91
47:BO:7:TYR:HE1	47:BO:20:MET:HE3	1.36	0.91
1:CA:1054:C:N4	24:CY:34:G:H1'	1.85	0.91
52:DT:38:ASN:HD22	52:DT:38:ASN:C	1.78	0.91
53:DU:69:CYS:HB2	53:DU:74:LEU:HD11	1.53	0.91
56:DX:12:VAL:HG23	56:DX:13:LEU:N	1.78	0.91
32:B6:6:ARG:NH1	32:B6:6:ARG:HB3	1.85	0.90
36:BA:1380:G:H2'	36:BA:1381:G:C8	2.06	0.90
36:BA:1860:G:H1	36:BA:1882:C:N4	1.69	0.90
38:BC:30:LYS:HE2	38:BC:180:PHE:O	1.71	0.90
46:BN:28:THR:HG23	46:BN:29:LYS:H	1.33	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:119:A:H4'	1:CA:120:A:O5'	1.69	0.90
2:CB:61:LEU:HA	2:CB:64:ARG:NE	1.86	0.90
24:CY:2:C:OP1	25:CZ:90:LYS:HD2	1.71	0.90
42:DG:7:LEU:HD22	42:DG:100:TRP:HZ3	1.32	0.90
48:DP:121:LYS:O	48:DP:123:LEU:HD23	1.72	0.90
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.35	0.90
20:AT:56:MET:HE3	20:AT:85:MET:HE2	1.51	0.90
21:AU:18:TYR:HA	21:AU:22:ARG:HD3	1.53	0.90
25:AZ:38:GLU:CG	25:AZ:189:ARG:NH1	2.33	0.90
36:BA:2802:G:H3'	36:BA:2803:C:H5''	1.54	0.90
42:BG:21:ARG:HH21	42:BG:22:ARG:HA	1.35	0.90
53:BU:61:TRP:O	53:BU:65:ILE:HD13	1.70	0.90
56:BX:30:VAL:HG11	56:BX:39:ILE:HD11	1.50	0.90
8:CH:116:LYS:O	8:CH:119:LEU:HD21	1.70	0.90
36:DA:2305:A:H61	42:DG:43:LEU:HD13	1.35	0.90
40:DE:57:LYS:HA	40:DE:57:LYS:CE	2.00	0.90
1:AA:744:C:H2'	1:AA:745:C:H6	1.36	0.90
27:B1:87:PRO:HA	27:B1:90:ILE:CG1	2.01	0.90
36:BA:265:A:C8	36:BA:266:G:H1'	2.06	0.90
36:BA:372:G:N2	36:BA:400:G:H2'	1.85	0.90
37:BB:106:G:H5'	58:BZ:31:ARG:HB3	1.52	0.90
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.71	0.90
58:DZ:130:PRO:HA	58:DZ:133:ILE:HD11	1.54	0.90
29:B3:8:LEU:HD12	29:B3:28:LEU:HB2	1.51	0.90
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.53	0.90
36:DA:1710:C:H2'	36:DA:1711:C:C6	2.07	0.90
47:DO:11:ALA:HB1	47:DO:98:VAL:HG23	1.54	0.90
4:AD:129:ASN:H	4:AD:129:ASN:HD22	1.19	0.90
27:B1:4:VAL:HG22	27:B1:5:CYS:H	1.36	0.90
36:BA:119:A:H4'	36:BA:120:U:H5'	1.52	0.90
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.37	0.90
36:DA:2008:C:H2'	36:DA:2009:G:H8	1.36	0.90
46:DN:3:THR:HG22	46:DN:4:TYR:H	1.36	0.90
56:DX:89:ILE:HG21	56:DX:92:LEU:HD12	1.53	0.90
1:AA:452:A:O2'	1:AA:453:A:H5''	1.72	0.90
5:AE:110:LEU:HD22	5:AE:115:VAL:HG21	1.51	0.90
25:AZ:200:TRP:HA	25:AZ:203:LEU:HB2	1.52	0.90
35:B9:36:GLN:HE22	36:BA:1031:G:N2	1.69	0.90
36:BA:1629:U:H2'	36:BA:1630:G:C8	2.06	0.90
1:CA:438:G:H5'	4:CD:123:HIS:HD1	1.31	0.90
7:CG:69:VAL:CA	7:CG:138:LYS:HD2	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.37	0.90
22:CV:56:C:H1'	42:DG:76:SER:HB2	1.50	0.90
36:DA:910:A:H62	49:DQ:12:GLN:HA	1.37	0.90
40:DE:34:VAL:O	40:DE:35:GLN:HB2	1.72	0.90
47:DO:107:ARG:HH12	52:DT:35:LYS:HD2	1.34	0.90
1:AA:265:G:C2'	1:AA:266:G:H5''	2.02	0.90
34:B8:6:THR:HG23	34:B8:62:LEU:HD12	1.50	0.90
36:BA:1516:C:C2'	36:BA:1517:G:H5''	2.00	0.90
37:BB:17:C:H42	37:BB:68:C:H42	1.18	0.90
41:BF:181:LEU:HD11	41:BF:186:ILE:HD11	1.53	0.90
47:BO:47:ILE:HG23	47:BO:48:PRO:HD2	1.52	0.90
3:CC:113:ALA:HB1	3:CC:200:ALA:HB3	1.52	0.90
7:CG:24:THR:HA	7:CG:27:ILE:HD12	1.52	0.90
25:CZ:174:SER:OG	25:CZ:177:LEU:HD13	1.70	0.90
25:CZ:200:TRP:HA	25:CZ:203:LEU:HB2	1.53	0.90
36:DA:2240:C:O2'	36:DA:2241:A:H5'	1.72	0.90
42:DG:130:ASN:CG	42:DG:160:VAL:HG13	1.95	0.90
2:AB:107:THR:HG23	2:AB:110:GLN:NE2	1.84	0.90
28:B2:5:GLU:HB2	28:B2:9:GLN:HE22	1.36	0.90
36:BA:2385:C:H2'	36:BA:2386:C:C6	2.07	0.90
36:BA:2511:U:H4'	40:BE:124:GLY:CA	2.01	0.90
47:BO:119:PRO:HB2	52:BT:68:TYR:CZ	2.06	0.90
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ1	1.35	0.90
1:CA:831:U:H2'	1:CA:832:C:C6	2.04	0.90
1:CA:881:G:P	12:CL:12:ARG:HH22	1.93	0.90
36:DA:272(H):C:H2'	36:DA:272(I):U:H5''	1.54	0.90
39:DD:232:PRO:HD2	39:DD:249:PRO:HA	1.51	0.90
1:AA:119:A:H4'	1:AA:120:A:O5'	1.72	0.90
12:AL:20:LYS:HD3	12:AL:20:LYS:N	1.87	0.90
36:BA:1824:G:OP1	39:BD:52:ARG:HD3	1.71	0.90
36:BA:2773:C:H5''	40:BE:164:ARG:HG2	1.51	0.90
1:CA:1442:G:H2'	1:CA:1442(B):A:H2	1.37	0.90
1:CA:1503:A:H2'	23:CX:16:A:H62	1.36	0.90
36:DA:1465:G:H2'	36:DA:1466:G:C8	2.07	0.90
36:DA:2262:U:H2'	36:DA:2263:C:C6	2.06	0.90
41:BF:154:VAL:HG11	41:BF:193:VAL:HG23	1.55	0.90
42:BG:56:ALA:O	42:BG:59:GLU:HG2	1.72	0.90
26:D0:40:GLN:NE2	26:D0:43:THR:HA	1.87	0.90
36:DA:84:A:H5'	57:DY:9:LYS:HD2	1.54	0.90
41:DF:154:VAL:HG11	41:DF:193:VAL:HG23	1.52	0.90
1:AA:1420:C:H42	1:AA:1480:G:H1	1.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.37	0.89
48:BP:39:LYS:HE2	48:BP:42:SER:HB3	1.53	0.89
2:CB:87:ARG:NE	2:CB:233:SER:HB3	1.88	0.89
4:CD:107:ARG:HH21	4:CD:194:LEU:HD12	1.36	0.89
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.02	0.89
27:D1:67:ILE:N	27:D1:68:PRO:HD2	1.88	0.89
36:DA:1087:G:H2'	36:DA:1088:A:H4'	1.52	0.89
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	1.87	0.89
48:BP:121:LYS:O	48:BP:123:LEU:HD23	1.73	0.89
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.34	0.89
22:CV:68:C:C2'	22:CV:69:G:H5''	2.00	0.89
27:D1:44:PRO:HG2	27:D1:46:LEU:HD21	1.52	0.89
36:DA:271(H):G:HO2'	36:DA:271(I):G:H8	0.94	0.89
38:DC:151:GLU:HA	38:DC:154:ARG:HH11	1.37	0.89
48:BP:111:ARG:HH11	48:BP:149:GLU:HG3	1.37	0.89
52:BT:38:ASN:HD22	52:BT:38:ASN:C	1.80	0.89
53:BU:112:ARG:NH1	54:BV:46:VAL:HG11	1.86	0.89
25:CZ:368:VAL:HG12	25:CZ:369:THR:H	1.37	0.89
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.07	0.89
4:AD:187:ARG:HB3	4:AD:187:ARG:NH1	1.87	0.89
36:BA:84:A:H5'	57:BY:9:LYS:HD2	1.53	0.89
36:BA:271(H):G:HO2'	36:BA:271(I):G:H8	0.95	0.89
36:BA:1710:C:H2'	36:BA:1711:C:C6	2.08	0.89
38:BC:147:PHE:C	38:BC:149:ILE:H	1.79	0.89
42:BG:5:VAL:H	42:BG:8:LYS:HB2	1.37	0.89
41:DF:153:SER:HA	41:DF:172:TRP:HB2	1.53	0.89
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.53	0.89
56:DX:35:THR:HG22	56:DX:37:THR:H	1.37	0.89
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.08	0.89
39:BD:232:PRO:HD2	39:BD:249:PRO:HA	1.53	0.89
41:BF:206:ILE:HG22	41:BF:207:GLY:H	1.36	0.89
42:BG:114:ILE:HG13	42:BG:135:LEU:HD21	1.54	0.89
51:BS:28:VAL:HG12	51:BS:29:PHE:H	1.34	0.89
54:BV:52:VAL:HG13	54:BV:55:ALA:HB3	1.54	0.89
1:CA:1239:A:H62	1:CA:1299:A:N6	1.69	0.89
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.20	0.89
36:DA:710:G:H2'	36:DA:711:G:C8	2.07	0.89
33:B7:40:TRP:CZ3	36:BA:459:U:H4'	2.07	0.89
36:BA:710:G:H2'	36:BA:711:G:C8	2.08	0.89
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.54	0.89
5:CE:100:VAL:HG23	5:CE:107:ARG:HH21	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.01	0.89
28:D2:35:LEU:HD11	28:D2:50:ILE:HG13	1.53	0.89
36:DA:1170:G:H22	36:DA:1179:C:H42	1.21	0.89
36:DA:1193:G:H2'	36:DA:1194:A:O4'	1.73	0.89
36:DA:1824:G:OP1	39:DD:52:ARG:HD3	1.71	0.89
36:DA:2385:C:H2'	36:DA:2386:C:H6	1.34	0.89
41:DF:24:LEU:HB3	41:DF:25:PRO:CD	2.02	0.89
8:AH:116:LYS:O	8:AH:119:LEU:HD21	1.72	0.89
36:BA:1202:C:H2'	36:BA:1203:G:H5'	1.55	0.89
36:BA:2464:C:HO2'	36:BA:2465:C:H6	1.14	0.89
58:BZ:139:VAL:HG12	58:BZ:140:ASP:H	1.38	0.89
36:DA:492:A:H2'	36:DA:493:G:O4'	1.72	0.89
40:DE:33:VAL:HG21	40:DE:36:ARG:HH21	1.35	0.89
52:DT:5:ALA:O	52:DT:9:LEU:HG	1.73	0.89
57:DY:43:ASN:C	57:DY:44:ILE:HD12	1.98	0.89
2:AB:115:LEU:HD13	2:AB:145:LEU:HD12	1.55	0.89
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.37	0.89
26:B0:40:GLN:NE2	26:B0:43:THR:HA	1.85	0.89
36:BA:144:C:H2'	36:BA:145:G:C8	2.08	0.89
36:BA:265:A:H8	36:BA:266:G:H1'	1.37	0.89
36:BA:2187:G:H2'	36:BA:2188:C:H5'	1.55	0.89
40:BE:33:VAL:HG21	40:BE:36:ARG:HH21	1.37	0.89
56:BX:12:VAL:HG23	56:BX:13:LEU:N	1.81	0.89
24:CY:6:U:H2'	24:CY:7:A:H5''	1.54	0.89
36:DA:427:U:HO2'	36:DA:428:A:H8	0.93	0.89
37:DB:55:U:H2'	37:DB:56:G:C8	2.07	0.89
52:DT:60:THR:HG22	52:DT:77:PRO:HA	1.55	0.89
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.38	0.89
3:AC:113:ALA:HB1	3:AC:200:ALA:HB3	1.54	0.89
36:BA:511:U:H3'	36:BA:512:G:C5'	2.03	0.89
36:BA:2009:G:H4'	55:BW:40:ASN:ND2	1.86	0.89
36:DA:1590:U:C2'	36:DA:1591:G:H5''	2.02	0.89
36:DA:2691:C:H2'	36:DA:2692:C:H6	1.38	0.89
37:DB:106:G:H2'	37:DB:107:G:H8	1.37	0.89
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.54	0.89
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.37	0.89
32:B6:45:LYS:HD3	32:B6:45:LYS:N	1.87	0.89
36:BA:1465:G:H2'	36:BA:1466:G:C8	2.07	0.89
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.37	0.89
58:BZ:151:HIS:HB2	58:BZ:169:GLU:O	1.72	0.89
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:10:ALA:HB2	48:DP:61:ARG:HH11	1.34	0.89
36:DA:2187:G:H2'	36:DA:2188:C:H5'	1.55	0.89
36:DA:2802:G:H3'	36:DA:2803:C:H5''	1.53	0.89
38:DC:206:GLY:HA3	38:DC:210:ARG:HH22	1.35	0.89
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.38	0.89
53:DU:70:ARG:HA	53:DU:74:LEU:O	1.72	0.89
54:DV:81:TYR:C	54:DV:82:ARG:HD2	1.98	0.89
58:DZ:26:GLY:HA2	58:DZ:85:HIS:HD2	1.38	0.89
2:AB:80:ILE:HD12	2:AB:80:ILE:H	1.38	0.88
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.08	0.88
30:B4:8:LYS:HG2	30:B4:9:LEU:N	1.86	0.88
34:B8:10:ALA:HB2	48:BP:61:ARG:HH11	1.38	0.88
35:B9:36:GLN:HE22	36:BA:1031:G:H21	1.16	0.88
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.71	0.88
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.38	0.88
19:CS:16:LEU:HD12	19:CS:16:LEU:H	1.38	0.88
34:D8:23:VAL:HG12	34:D8:46:ARG:HB3	1.55	0.88
36:DA:31:C:H2'	36:DA:32:C:H5''	1.55	0.88
48:DP:111:ARG:HH11	48:DP:149:GLU:HG3	1.38	0.88
2:AB:63:MET:HG3	2:AB:63:MET:O	1.70	0.88
4:AD:107:ARG:HH21	4:AD:194:LEU:HD12	1.38	0.88
36:BA:17:G:N2	36:BA:524:U:H1'	1.86	0.88
36:BA:2184:G:H2'	36:BA:2185:C:C1'	2.02	0.88
41:BF:24:LEU:HB3	41:BF:25:PRO:CD	2.03	0.88
49:BQ:34:LEU:HD11	49:BQ:129:THR:HB	1.55	0.88
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.36	0.88
28:D2:14:ARG:HH22	36:DA:78:A:H5'	1.35	0.88
36:DA:1297:C:OP1	36:DA:2710:C:H4'	1.71	0.88
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.01	0.88
29:B3:6:VAL:HB	29:B3:54:VAL:HG11	1.53	0.88
32:B6:45:LYS:H	32:B6:45:LYS:HD2	1.35	0.88
34:B8:23:VAL:HG12	34:B8:46:ARG:HB3	1.56	0.88
36:BA:1291:C:H2'	36:BA:1292:U:H5'	1.55	0.88
36:BA:1590:U:C2'	36:BA:1591:G:H5''	2.02	0.88
36:BA:2691:C:H2'	36:BA:2692:C:H6	1.38	0.88
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.35	0.88
57:BY:75:ILE:O	57:BY:76:CYS:HB2	1.73	0.88
58:BZ:70:LEU:HD21	58:BZ:91:LEU:HD21	1.55	0.88
1:CA:1053:G:H4'	1:CA:1054:C:C5'	2.03	0.88
8:CH:109:ILE:HG12	8:CH:110:ALA:N	1.82	0.88
13:CM:45:VAL:HA	13:CM:48:LEU:HD11	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:56:MET:HE3	20:CT:85:MET:HE2	1.54	0.88
32:D6:6:ARG:HB3	32:D6:6:ARG:HH11	1.35	0.88
36:DA:1095:A:H2'	36:DA:1096:A:H8	1.36	0.88
42:DG:41:GLN:HB3	42:DG:43:LEU:CD2	2.04	0.88
51:DS:106:ARG:HH11	51:DS:107:GLU:N	1.69	0.88
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.09	0.88
5:AE:137:GLU:OE2	5:AE:140:ARG:HD2	1.72	0.88
36:BA:1677:A:H2'	36:BA:1678:G:C8	2.08	0.88
37:BB:20:C:H2'	37:BB:21:G:H5''	1.53	0.88
38:BC:23:ASP:HB3	38:BC:27:ARG:NH1	1.88	0.88
46:BN:28:THR:HG23	46:BN:29:LYS:N	1.87	0.88
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.02	0.88
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.38	0.88
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.54	0.88
21:CU:16:GLY:O	21:CU:17:THR:HG23	1.73	0.88
36:DA:862:G:C2	36:DA:863:A:H1'	2.08	0.88
36:DA:1441:G:O2'	36:DA:1442:G:H5'	1.73	0.88
36:DA:2811:G:OP1	40:DE:60:ASN:HB2	1.72	0.88
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.38	0.88
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.54	0.88
25:AZ:322:VAL:HG12	25:AZ:364:PRO:HA	1.54	0.88
28:B2:51:ARG:CD	28:B2:55:ARG:HH22	1.85	0.88
30:B4:8:LYS:O	30:B4:9:LEU:HB2	1.73	0.88
31:B5:27:PRO:HG3	55:BW:23:LEU:HD11	1.56	0.88
38:BC:99:ILE:HG23	38:BC:102:LYS:HZ3	1.37	0.88
1:CA:78:G:N2	1:CA:91:C:H42	1.71	0.88
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.55	0.88
4:CD:201:GLN:HA	4:CD:204:ILE:HD12	1.56	0.88
19:CS:51:VAL:HG23	19:CS:60:VAL:HG11	1.54	0.88
32:D6:45:LYS:HD3	32:D6:45:LYS:N	1.88	0.88
34:D8:6:THR:HG23	34:D8:62:LEU:HD12	1.54	0.88
35:D9:36:GLN:HE22	36:DA:1031:G:H21	1.21	0.88
1:AA:902:G:H2'	1:AA:903:G:H8	1.39	0.88
36:BA:1222:C:C2'	36:BA:1223:G:H5''	2.04	0.88
49:BQ:22:LYS:H	58:BZ:78:LYS:HE3	1.36	0.88
36:DA:1568:G:H5''	39:DD:61:LEU:HD23	1.56	0.88
47:DO:119:PRO:HB2	52:DT:68:TYR:CZ	2.09	0.88
54:DV:72:VAL:HG23	54:DV:85:LYS:HB2	1.56	0.88
1:AA:55:A:H2'	25:AZ:232:THR:HG21	1.55	0.88
1:AA:1239:A:H62	1:AA:1299:A:N6	1.72	0.88
2:AB:87:ARG:NE	2:AB:233:SER:HB3	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:65:LEU:HD13	14:AN:56:VAL:N	1.88	0.88
13:AM:52:GLU:HA	13:AM:55:ARG:HB3	1.55	0.88
20:AT:57:ARG:NH1	20:AT:103:GLY:H	1.71	0.88
33:B7:21:ARG:HG2	33:B7:21:ARG:HH11	1.39	0.88
36:BA:272(H):C:H2'	36:BA:272(I):U:H5''	1.55	0.88
36:BA:492:A:H2'	36:BA:493:G:O4'	1.74	0.88
57:BY:43:ASN:C	57:BY:44:ILE:HD12	1.99	0.88
15:CO:36:ILE:HG23	15:CO:56:LEU:HD11	1.54	0.88
22:CV:59:U:HO2'	22:CV:60:U:H6	0.89	0.88
26:D0:11:ARG:HB2	26:D0:11:ARG:NH1	1.89	0.88
28:D2:46:GLN:OE1	36:DA:95:G:H4'	1.73	0.88
34:D8:49:VAL:HG12	34:D8:53:PRO:HD3	1.53	0.88
42:DG:162:THR:HG22	42:DG:164:GLU:OE2	1.73	0.88
46:DN:83:LYS:HG2	46:DN:84:LYS:H	1.39	0.88
57:DY:77:PRO:HB2	57:DY:99:CYS:SG	2.14	0.88
17:AQ:68:ARG:O	17:AQ:70:ARG:HD2	1.73	0.88
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.52	0.88
36:BA:862:G:C2	36:BA:863:A:H1'	2.08	0.88
36:BA:2833:G:H3'	36:BA:2834:G:H5''	1.56	0.88
47:BO:11:ALA:HB1	47:BO:98:VAL:HG23	1.55	0.88
1:CA:715:A:H2'	1:CA:716:A:C8	2.09	0.88
6:CF:43:LEU:H	6:CF:43:LEU:HD22	1.39	0.88
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.55	0.88
32:D6:53:LYS:CD	32:D6:54:ILE:H	1.86	0.88
36:DA:265:A:C8	36:DA:266:G:H1'	2.08	0.88
36:DA:372:G:H22	36:DA:400:G:H2'	1.37	0.88
36:DA:2773:C:H5''	40:DE:164:ARG:HG2	1.54	0.88
41:DF:6:VAL:HG12	41:DF:7:TYR:H	1.35	0.88
58:DZ:81:ARG:HB2	58:DZ:81:ARG:NH1	1.89	0.88
8:AH:86:ILE:HG21	8:AH:133:LEU:HD23	1.56	0.88
34:B8:28:GLY:HA2	34:B8:32:LEU:HD23	1.56	0.88
36:BA:925:C:H2'	36:BA:926:A:C5'	2.04	0.88
43:BH:67:LEU:HG	43:BH:71:LEU:HD11	1.55	0.88
46:BN:3:THR:HG22	46:BN:4:TYR:H	1.36	0.88
46:BN:23:LEU:HA	46:BN:26:LEU:HD23	1.56	0.88
46:BN:45:ASN:HD22	46:BN:45:ASN:N	1.71	0.88
48:BP:47:ASP:HB3	48:BP:49:ARG:N	1.89	0.88
49:BQ:27:VAL:HG12	49:BQ:29:PHE:H	1.38	0.88
21:CU:18:TYR:HA	21:CU:22:ARG:HD3	1.55	0.88
22:CW:54:U:H4'	38:DC:54:SER:CB	2.04	0.88
46:DN:24:GLY:H	46:DN:27:ALA:H	1.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:75:ILE:O	57:DY:76:CYS:HB2	1.72	0.88
1:AA:419:C:H42	1:AA:424:G:H22	1.20	0.88
6:AF:43:LEU:H	6:AF:43:LEU:HD22	1.38	0.88
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.53	0.88
36:BA:575:A:O2'	36:BA:576:U:H5'	1.74	0.88
20:CT:104:LEU:HD23	20:CT:105:SER:H	1.36	0.88
51:DS:28:VAL:HG12	51:DS:29:PHE:H	1.39	0.88
57:DY:86:ARG:HG2	57:DY:87:LYS:H	1.39	0.88
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.72	0.87
36:BA:427:U:HO2'	36:BA:428:A:H8	0.93	0.87
1:CA:10:A:OP2	5:CE:126:ARG:HD3	1.74	0.87
1:CA:295:C:H2'	1:CA:296:U:H6	1.39	0.87
1:CA:1412:C:H42	1:CA:1488:G:H1	1.14	0.87
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.56	0.87
2:CB:115:LEU:HD13	2:CB:145:LEU:HD12	1.57	0.87
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.36	0.87
36:DA:860:U:O2'	36:DA:861:A:H5'	1.74	0.87
36:DA:2068:U:N3	36:DA:2430:A:H2	1.72	0.87
36:DA:2591:C:H2'	36:DA:2592:G:C8	2.09	0.87
37:DB:20:C:H2'	37:DB:21:G:H5''	1.53	0.87
58:DZ:127:LYS:NZ	58:DZ:164:ALA:HB2	1.87	0.87
1:AA:376:G:H2'	1:AA:377:G:H8	1.39	0.87
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.55	0.87
42:BG:43:LEU:HB3	42:BG:45:GLU:HG2	1.55	0.87
56:BX:89:ILE:HG21	56:BX:92:LEU:HD12	1.53	0.87
29:D3:15:TYR:HD2	29:D3:19:GLN:HE22	1.21	0.87
36:DA:398:G:H2'	36:DA:399:G:H8	1.40	0.87
36:DA:575:A:O2'	36:DA:576:U:H5'	1.73	0.87
36:DA:2401:U:H2'	36:DA:2402:C:H5''	1.56	0.87
40:DE:107:THR:O	40:DE:191:PRO:HD3	1.74	0.87
42:DG:83:ARG:HB2	42:DG:84:LYS:HD2	1.54	0.87
57:DY:37:VAL:HG23	57:DY:38:ILE:H	1.39	0.87
1:AA:711:G:H2'	1:AA:712:A:H8	1.39	0.87
13:AM:45:VAL:HA	13:AM:48:LEU:HD11	1.56	0.87
13:AM:108:ARG:HD2	13:AM:108:ARG:N	1.86	0.87
21:AU:16:GLY:O	21:AU:17:THR:HG23	1.74	0.87
36:BA:894:C:H2'	36:BA:895:U:H5'	1.56	0.87
36:BA:2245:U:H5'	36:BA:2246:G:H5'	1.56	0.87
42:BG:180:PHE:HB2	42:BG:182:LYS:NZ	1.89	0.87
1:AA:881:G:P	12:AL:12:ARG:HH22	1.97	0.87
36:BA:1291:C:C2'	36:BA:1292:U:H5'	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2482:G:H22	49:BQ:52:VAL:HG11	1.38	0.87
41:BF:46:ARG:HH11	41:BF:46:ARG:HG3	1.38	0.87
52:BT:28:VAL:CG2	52:BT:47:GLY:H	1.86	0.87
22:CW:54:U:C4'	38:DC:54:SER:HB2	2.04	0.87
28:D2:3:LEU:HD12	36:DA:98:G:H5''	1.55	0.87
36:DA:1291:C:H2'	36:DA:1292:U:H5'	1.55	0.87
36:DA:1380:G:H2'	36:DA:1381:G:C8	2.09	0.87
36:DA:2068:U:H3	36:DA:2430:A:H2	1.16	0.87
1:AA:975:A:H4'	1:AA:976:G:H5''	1.55	0.87
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB3	1.57	0.87
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.38	0.87
31:B5:3:LYS:HA	31:B5:3:LYS:HE3	1.55	0.87
36:BA:2807:G:H1	36:BA:2893:G:H1	1.23	0.87
38:BC:151:GLU:HA	38:BC:154:ARG:HH11	1.39	0.87
48:BP:64:LYS:O	48:BP:66:GLY:N	2.08	0.87
7:CG:118:VAL:HG23	7:CG:119:ARG:H	1.38	0.87
36:DA:1190:G:H5'	48:DP:35:HIS:N	1.90	0.87
42:DG:5:VAL:HG12	42:DG:6:ALA:H	1.38	0.87
43:DH:67:LEU:HG	43:DH:71:LEU:HD11	1.56	0.87
57:DY:13:VAL:HG13	57:DY:14:LEU:H	1.37	0.87
58:DZ:85:HIS:HD2	58:DZ:86:VAL:H	1.19	0.87
1:AA:864:A:H5'	1:AA:865:A:OP2	1.74	0.87
28:B2:38:GLN:HB3	28:B2:44:LEU:CD1	2.04	0.87
53:BU:69:CYS:HB2	53:BU:74:LEU:HD11	1.56	0.87
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.57	0.87
7:CG:146:GLU:OE2	7:CG:149:ARG:HD2	1.73	0.87
30:D4:8:LYS:O	30:D4:9:LEU:HB2	1.73	0.87
36:DA:2184:G:H2'	36:DA:2185:C:C1'	2.04	0.87
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.40	0.87
55:DW:12:ILE:HD12	55:DW:42:ARG:NH1	1.88	0.87
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.40	0.87
12:AL:17:LYS:HD3	12:AL:18:VAL:N	1.89	0.87
27:B1:13:ILE:HD13	27:B1:13:ILE:H	1.38	0.87
36:BA:31:C:H2'	36:BA:32:C:H5''	1.56	0.87
36:BA:2385:C:H2'	36:BA:2386:C:H6	1.36	0.87
36:BA:2735:G:H2'	36:BA:2736:G:C8	2.09	0.87
36:BA:2811:G:OP1	40:BE:60:ASN:HB2	1.73	0.87
1:CA:769:G:O2'	1:CA:770:C:H5'	1.75	0.87
1:CA:793:U:O2	1:CA:1516:G:H4'	1.74	0.87
8:CH:86:ILE:HG21	8:CH:133:LEU:HD23	1.57	0.87
13:CM:10:PRO:O	13:CM:11:ARG:HB2	1.71	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:36:CYS:HB3	31:D5:49:CYS:HB3	1.55	0.87
36:DA:2245:U:H5'	36:DA:2246:G:H5'	1.54	0.87
36:DA:2482:G:H22	49:DQ:52:VAL:HG11	1.38	0.87
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.05	0.87
25:AZ:368:VAL:HG12	25:AZ:369:THR:H	1.40	0.87
36:BA:910:A:H62	49:BQ:12:GLN:HA	1.36	0.87
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.75	0.87
58:BZ:153:SER:H	58:BZ:167:PRO:HB2	1.40	0.87
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.09	0.87
36:DA:2009:G:H4'	55:DW:40:ASN:ND2	1.89	0.87
48:DP:64:LYS:O	48:DP:66:GLY:N	2.07	0.87
1:AA:1249:C:H5''	9:AI:70:LYS:HZ1	1.40	0.87
25:AZ:244:ARG:HB3	25:AZ:244:ARG:HH11	1.40	0.87
36:BA:2082:A:H2'	36:BA:2083:G:O4'	1.75	0.87
38:BC:96:GLY:HA3	38:BC:99:ILE:CG1	2.05	0.87
52:BT:32:TYR:O	52:BT:33:LYS:HB2	1.74	0.87
54:BV:72:VAL:CG2	54:BV:85:LYS:HB2	2.05	0.87
30:D4:8:LYS:HG2	30:D4:9:LEU:N	1.88	0.87
49:DQ:27:VAL:HG12	49:DQ:29:PHE:H	1.39	0.87
50:DR:100:LEU:HD11	50:DR:113:LEU:HD13	1.55	0.87
54:DV:52:VAL:HG13	54:DV:55:ALA:HB3	1.55	0.87
1:AA:254:G:H21	17:AQ:16:GLN:HE22	1.23	0.86
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.57	0.86
36:BA:1193:G:H2'	36:BA:1194:A:O4'	1.75	0.86
58:BZ:68:PRO:O	58:BZ:91:LEU:HG	1.75	0.86
1:CA:985:C:H2'	1:CA:986:A:H8	1.38	0.86
5:CE:137:GLU:OE2	5:CE:140:ARG:HD2	1.75	0.86
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.54	0.86
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB3	1.55	0.86
20:CT:57:ARG:NH1	20:CT:103:GLY:H	1.73	0.86
27:D1:44:PRO:O	27:D1:46:LEU:HD22	1.75	0.86
41:DF:46:ARG:HG3	41:DF:46:ARG:HH11	1.40	0.86
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.55	0.86
9:AI:46:ALA:C	9:AI:47:LEU:HD12	2.00	0.86
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.38	0.86
36:DA:740:U:H2'	36:DA:741:G:H8	1.35	0.86
1:AA:78:G:N2	1:AA:91:C:H42	1.72	0.86
1:AA:985:C:H2'	1:AA:986:A:H8	1.38	0.86
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.57	0.86
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.04	0.86
33:B7:34:ARG:HD3	33:B7:39:ARG:HG3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1087:G:H2'	36:BA:1088:A:H4'	1.54	0.86
54:BV:81:TYR:C	54:BV:82:ARG:HD2	1.99	0.86
36:DA:1658:C:H2'	36:DA:1659:U:H6	1.39	0.86
39:DD:35:LYS:HD2	39:DD:35:LYS:C	2.00	0.86
50:DR:13:HIS:CE1	50:DR:16:HIS:H	1.93	0.86
52:DT:130:ALA:O	52:DT:132:LYS:HE2	1.75	0.86
25:AZ:244:ARG:HB3	25:AZ:244:ARG:NH1	1.90	0.86
36:BA:904:C:H2'	36:BA:905:U:H6	1.40	0.86
36:BA:2796:U:O2'	36:BA:2799:C:H5'	1.75	0.86
37:BB:106:G:H2'	37:BB:107:G:H8	1.38	0.86
48:BP:84:ASN:C	48:BP:86:LYS:H	1.81	0.86
52:BT:130:ALA:O	52:BT:132:LYS:HE2	1.76	0.86
1:CA:447:G:H2'	1:CA:485:G:N2	1.90	0.86
36:DA:1202:C:H2'	36:DA:1203:G:H5'	1.54	0.86
36:DA:2222:G:H2'	36:DA:2223:G:H8	1.40	0.86
43:DH:23:ARG:O	43:DH:24:VAL:HG23	1.75	0.86
12:AL:18:VAL:HG23	12:AL:19:ARG:N	1.89	0.86
25:AZ:38:GLU:CB	25:AZ:189:ARG:HH11	1.88	0.86
31:B5:36:CYS:HB3	31:B5:49:CYS:HB3	1.56	0.86
36:BA:2124:G:H1'	38:BC:42:GLU:OE2	1.75	0.86
42:BG:34:LEU:HD11	42:BG:100:TRP:CZ2	2.10	0.86
42:BG:63:ILE:HG13	42:BG:64:THR:N	1.89	0.86
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.74	0.86
25:CZ:322:VAL:HG12	25:CZ:364:PRO:HA	1.55	0.86
26:D0:16:SER:OG	36:DA:2261:C:H3'	1.74	0.86
36:DA:1541:G:H1'	36:DA:1542:A:C4	2.11	0.86
36:DA:2185:C:C2'	36:DA:2186:G:H5'	2.06	0.86
36:DA:2454:G:H2'	36:DA:2455:G:H8	1.40	0.86
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.54	0.86
36:BA:310:A:OP1	57:BY:18:GLY:HA2	1.75	0.86
36:BA:1170:G:H22	36:BA:1179:C:H42	1.22	0.86
36:BA:1541:G:H1'	36:BA:1542:A:C4	2.11	0.86
47:BO:107:ARG:HH12	52:BT:35:LYS:HD2	1.40	0.86
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.56	0.86
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.56	0.86
3:CC:58:GLU:H	3:CC:65:ALA:CB	1.88	0.86
36:DA:119:A:H4'	36:DA:120:U:H5'	1.56	0.86
36:DA:655:A:H4'	36:DA:656:G:C5'	2.05	0.86
36:DA:894:C:H2'	36:DA:895:U:H5'	1.57	0.86
36:DA:2735:G:H2'	36:DA:2736:G:C8	2.10	0.86
40:DE:107:THR:O	40:DE:190:GLY:HA2	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:139:VAL:HG12	58:DZ:140:ASP:H	1.40	0.86
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.55	0.86
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.57	0.86
36:BA:2403:C:H42	36:BA:2414:G:H1	1.24	0.86
38:BC:214:VAL:HG23	38:BC:224:ILE:HG21	1.57	0.86
39:BD:226:MET:HB3	39:BD:230:ASP:HB2	1.56	0.86
46:BN:83:LYS:HG2	46:BN:84:LYS:H	1.39	0.86
1:CA:438:G:C5'	4:CD:123:HIS:HD1	1.88	0.86
16:CP:14:ASN:HA	16:CP:42:ARG:NH1	1.89	0.86
33:D7:40:TRP:CZ3	36:DA:459:U:H4'	2.09	0.86
39:DD:186:HIS:NE2	39:DD:188:GLU:HB2	1.91	0.86
39:DD:226:MET:HB3	39:DD:230:ASP:HB2	1.57	0.86
57:DY:81:LYS:HZ3	57:DY:99:CYS:HB2	1.40	0.86
42:BG:77:ILE:HB	42:BG:81:LYS:O	1.75	0.86
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.55	0.86
10:CJ:12:ASP:HB3	10:CJ:15:THR:OG1	1.75	0.86
36:DA:813:U:H2'	36:DA:814:C:C6	2.11	0.86
36:DA:1603:A:H8	36:DA:1603:A:H5'	1.41	0.86
38:DC:72:VAL:HG23	38:DC:111:ASP:HB3	1.55	0.86
46:DN:28:THR:HG23	46:DN:29:LYS:H	1.40	0.86
52:DT:28:VAL:CG2	52:DT:47:GLY:H	1.88	0.86
1:AA:405:U:H3'	1:AA:406:G:H5'	1.58	0.86
1:AA:419:C:N4	1:AA:424:G:H22	1.72	0.86
1:AA:993:G:H22	1:AA:1046:A:H1'	1.39	0.86
4:AD:78:LEU:HD21	4:AD:96:LEU:HB3	1.57	0.86
34:B8:10:ALA:HB2	48:BP:61:ARG:NH1	1.90	0.86
36:BA:2401:U:H2'	36:BA:2402:C:H5''	1.56	0.86
1:CA:408:A:H4'	4:CD:112:VAL:HG11	1.57	0.86
2:CB:229:VAL:HG12	2:CB:230:VAL:H	1.41	0.86
32:D6:48:VAL:O	32:D6:49:HIS:ND1	2.09	0.86
36:DA:612:C:H2'	36:DA:613:G:H5'	1.58	0.86
36:DA:2358:G:N2	36:DA:2359:C:H1'	1.89	0.86
36:DA:2796:U:O2'	36:DA:2799:C:H5'	1.74	0.86
58:DZ:68:PRO:O	58:DZ:91:LEU:HG	1.75	0.86
1:AA:8:A:N6	4:AD:208:SER:HB2	1.90	0.86
1:AA:1054:C:N4	24:AY:34:G:H1'	1.91	0.86
36:BA:1860:G:H1	36:BA:1882:C:H42	1.21	0.86
36:BA:2454:G:H2'	36:BA:2455:G:H8	1.41	0.86
57:BY:46:LYS:N	57:BY:62:GLU:HG2	1.91	0.86
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	1.87	0.86
4:CD:78:LEU:HD21	4:CD:96:LEU:HB3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:9:ARG:HB2	9:CI:104:ARG:HH12	1.41	0.86
19:CS:41:VAL:HB	19:CS:44:MET:HG2	1.56	0.86
42:DG:52:ILE:HB	42:DG:54:GLU:OE1	1.76	0.86
1:AA:751:U:H4'	15:AO:24:SER:HB2	1.56	0.85
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	1.76	0.85
39:BD:35:LYS:CG	39:BD:63:ARG:HG2	2.05	0.85
9:CI:46:ALA:C	9:CI:47:LEU:HD12	2.01	0.85
36:DA:996:A:O2'	36:DA:997:G:H5'	1.76	0.85
36:DA:1222:C:C2'	36:DA:1223:G:H5''	2.05	0.85
39:DD:35:LYS:HG2	39:DD:63:ARG:HG2	1.57	0.85
39:DD:126:GLN:O	39:DD:193:VAL:HG11	1.75	0.85
46:DN:10:GLU:HG3	46:DN:11:PRO:HD2	1.58	0.85
1:AA:351:G:H4'	1:AA:352:C:OP1	1.76	0.85
24:AY:75:C:C5	25:AZ:231:ILE:HA	2.11	0.85
28:B2:41:ILE:HG13	28:B2:42:GLY:N	1.90	0.85
36:BA:2760:C:H2'	36:BA:2761:G:H5''	1.59	0.85
50:BR:100:LEU:HD11	50:BR:113:LEU:HD13	1.59	0.85
1:CA:419:C:N4	1:CA:424:G:H22	1.73	0.85
25:CZ:244:ARG:HB3	25:CZ:244:ARG:NH1	1.91	0.85
48:DP:47:ASP:HB3	48:DP:49:ARG:N	1.90	0.85
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.04	0.85
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.58	0.85
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.38	0.85
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.39	0.85
36:DA:1291:C:C2'	36:DA:1292:U:H5'	2.06	0.85
42:DG:103:LEU:O	42:DG:106:LEU:HB3	1.77	0.85
9:AI:9:ARG:HB2	9:AI:104:ARG:HH12	1.39	0.85
26:B0:37:LEU:HB2	26:B0:59:LEU:HB2	1.59	0.85
32:B6:5:VAL:CG1	36:BA:2283:C:H5'	2.07	0.85
36:BA:1658:C:H2'	36:BA:1659:U:H6	1.41	0.85
39:BD:186:HIS:NE2	39:BD:188:GLU:HB2	1.91	0.85
40:BE:107:THR:O	40:BE:191:PRO:HD3	1.76	0.85
58:BZ:81:ARG:HB2	58:BZ:81:ARG:CZ	2.04	0.85
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.05	0.85
1:CA:1410:G:O2'	1:CA:1411:C:H5'	1.75	0.85
1:CA:1480:G:H2'	1:CA:1481:U:O4'	1.76	0.85
15:CO:10:LYS:O	15:CO:10:LYS:HE3	1.76	0.85
22:CV:6:G:H1	22:CV:67:C:H42	1.24	0.85
28:D2:21:LEU:HD22	28:D2:64:LEU:HD12	1.58	0.85
31:D5:7:PRO:HA	36:DA:2615:U:C2	2.12	0.85
36:DA:407:G:H2'	36:DA:408:G:H8	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2124:G:H1'	38:DC:42:GLU:OE2	1.76	0.85
36:DA:2893:G:H5'	36:DA:2894:G:H5'	1.59	0.85
37:DB:17:C:H42	37:DB:68:C:H42	1.22	0.85
38:DC:23:ASP:HB3	38:DC:27:ARG:NH1	1.91	0.85
41:DF:135:LYS:HB3	41:DF:138:GLU:HB2	1.58	0.85
1:AA:117:G:O6	1:AA:289:G:H1'	1.76	0.85
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	1.77	0.85
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.56	0.85
40:BE:34:VAL:O	40:BE:35:GLN:HB2	1.75	0.85
36:DA:483:A:H1'	57:DY:60:PHE:CE1	2.12	0.85
46:DN:23:LEU:HA	46:DN:26:LEU:HD23	1.59	0.85
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.57	0.85
54:DV:72:VAL:CG2	54:DV:85:LYS:HB2	2.06	0.85
58:DZ:26:GLY:HA2	58:DZ:85:HIS:CD2	2.12	0.85
26:B0:11:ARG:HB2	26:B0:11:ARG:NH1	1.91	0.85
36:BA:1062:G:H1'	45:BK:75:UNK:CB	2.07	0.85
38:BC:72:VAL:HG23	38:BC:111:ASP:HB3	1.59	0.85
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	1.75	0.85
36:DA:1599:C:H2'	36:DA:1600:C:H6	1.42	0.85
36:DA:1629:U:H2'	36:DA:1630:G:C8	2.11	0.85
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.59	0.85
28:B2:69:ARG:NH1	36:BA:111:A:H4'	1.91	0.85
36:BA:329:G:H22	57:BY:19:LYS:HE3	1.40	0.85
36:BA:407:G:H2'	36:BA:408:G:H8	1.42	0.85
36:BA:813:U:H2'	36:BA:814:C:C6	2.11	0.85
38:BC:10:LEU:HD12	38:BC:32:LEU:HD23	1.56	0.85
42:BG:16:ARG:HD2	42:BG:20:ILE:HD11	1.57	0.85
1:CA:751:U:H4'	15:CO:24:SER:HB2	1.57	0.85
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.10	0.85
10:CJ:43:ARG:HB2	10:CJ:67:THR:HG22	1.58	0.85
36:DA:2591:C:H2'	36:DA:2592:G:H8	1.42	0.85
41:DF:160:ASN:HB3	41:DF:163:VAL:HB	1.58	0.85
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.75	0.85
32:B6:53:LYS:HD3	32:B6:54:ILE:H	1.39	0.85
57:BY:81:LYS:NZ	57:BY:99:CYS:HB2	1.91	0.85
1:CA:226:G:O2'	1:CA:227:G:H5'	1.77	0.85
36:DA:511:U:H3'	36:DA:512:G:C5'	2.05	0.85
36:DA:2200:C:H42	36:DA:2223:G:H1	1.24	0.85
46:DN:45:ASN:N	46:DN:45:ASN:HD22	1.72	0.85
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.40	0.85
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.06	0.85
35:D9:36:GLN:HE22	36:DA:1031:G:N2	1.75	0.85
36:DA:2833:G:H3'	36:DA:2834:G:H5''	1.56	0.85
1:AA:1498:U:C5	23:AX:20:U:H5'	2.12	0.85
25:AZ:322:VAL:CG1	25:AZ:364:PRO:HA	2.07	0.85
34:B8:25:MET:HG3	48:BP:64:LYS:HB2	1.56	0.85
42:BG:7:LEU:HB3	42:BG:100:TRP:CE3	2.11	0.85
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.41	0.85
47:BO:2:ILE:CD1	47:BO:82:ASN:HD22	1.89	0.85
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.59	0.85
54:BV:72:VAL:HG23	54:BV:85:LYS:HB2	1.56	0.85
56:BX:60:ARG:HG3	56:BX:75:ASP:OD2	1.77	0.85
1:CA:265:G:C2'	1:CA:266:G:H5''	2.06	0.85
1:CA:419:C:H42	1:CA:424:G:H22	1.22	0.85
32:D6:53:LYS:HD3	32:D6:54:ILE:H	1.42	0.85
36:DA:612:C:H2'	36:DA:613:G:C5'	2.07	0.85
37:DB:80:U:H2'	37:DB:81:G:N2	1.91	0.85
55:DW:11:ARG:NH1	55:DW:98:LYS:HB3	1.90	0.85
1:AA:1125:U:H3	10:AJ:5:ARG:NH2	1.75	0.84
20:AT:72:LEU:HD22	20:AT:76:ALA:HB1	1.58	0.84
22:AV:59:U:HO2'	22:AV:60:U:H6	0.85	0.84
36:BA:1353:A:H2'	36:BA:1354:A:C8	2.12	0.84
36:BA:2110:G:H22	36:BA:2178:C:H41	1.24	0.84
58:BZ:153:SER:H	58:BZ:167:PRO:CB	1.90	0.84
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.58	0.84
36:DA:1677:A:H2'	36:DA:1678:G:C8	2.12	0.84
36:DA:1818:U:H2'	39:DD:157:ARG:HG3	1.58	0.84
36:DA:2020:A:O2'	36:DA:2021:C:H5'	1.77	0.84
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.39	0.84
11:AK:120:ARG:HH22	11:AK:126:ARG:HE	1.24	0.84
30:B4:6:HIS:HB3	42:BG:67:LYS:HE3	1.57	0.84
36:BA:6:A:O2'	46:BN:130:HIS:HB2	1.77	0.84
36:BA:612:C:H2'	36:BA:613:G:H5'	1.59	0.84
36:BA:863:A:H2'	36:BA:864:G:C8	2.11	0.84
52:BT:5:ALA:O	52:BT:9:LEU:HG	1.76	0.84
1:CA:770:C:O2'	1:CA:771:G:H5'	1.77	0.84
1:CA:1002:G:H2'	1:CA:1003:G:H8	1.42	0.84
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.40	0.84
36:DA:234:C:H2'	36:DA:235:U:C6	2.12	0.84
36:DA:662:G:OP1	48:DP:18:ARG:HD2	1.78	0.84
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:63:C:H42	1:AA:104:G:H1	1.22	0.84
1:AA:831:U:H2'	1:AA:832:C:C5	2.12	0.84
10:AJ:12:ASP:HB3	10:AJ:15:THR:OG1	1.75	0.84
22:AV:6:G:H1	22:AV:67:C:H42	1.24	0.84
36:BA:483:A:H1'	57:BY:60:PHE:CE1	2.11	0.84
36:BA:860:U:O2'	36:BA:861:A:H5'	1.76	0.84
36:BA:1576:U:H2'	36:BA:1577:C:C6	2.12	0.84
37:BB:68:C:H2'	37:BB:69:G:H8	1.43	0.84
41:BF:137:LYS:HA	41:BF:140:LEU:CB	2.07	0.84
52:BT:53:ARG:NH1	52:BT:53:ARG:HB3	1.92	0.84
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.41	0.84
13:CM:52:GLU:HA	13:CM:55:ARG:HB3	1.58	0.84
25:CZ:268:THR:CG2	25:CZ:289:LEU:HD23	2.07	0.84
36:DA:1132:A:N3	46:DN:73:THR:HG21	1.92	0.84
1:AA:627:G:H2'	1:AA:628:G:H8	1.43	0.84
37:BB:30:C:H2'	37:BB:31:C:O4'	1.77	0.84
38:BC:99:ILE:HD12	38:BC:102:LYS:HZ3	1.43	0.84
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.13	0.84
5:CE:47:LYS:HD3	5:CE:47:LYS:N	1.93	0.84
36:DA:310:A:OP1	57:DY:18:GLY:HA2	1.77	0.84
36:DA:662:G:H2'	36:DA:663:G:C8	2.11	0.84
36:DA:1576:U:H2'	36:DA:1577:C:C6	2.11	0.84
36:DA:2082:A:H2'	36:DA:2083:G:O4'	1.77	0.84
49:DQ:20:ALA:H	58:DZ:79:ARG:NH2	1.76	0.84
1:AA:1282:C:H2'	1:AA:1283:G:H8	1.42	0.84
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	1.59	0.84
20:AT:36:LEU:CD1	20:AT:59:ALA:HB2	2.07	0.84
36:BA:1378:A:O2'	36:BA:1379:A:H5'	1.77	0.84
36:BA:1543:C:H3'	36:BA:1544:A:C5'	2.07	0.84
1:CA:902:G:H2'	1:CA:903:G:H8	1.42	0.84
1:CA:1324:A:H4'	1:CA:1362:C:H4'	1.59	0.84
34:D8:28:GLY:HA2	34:D8:32:LEU:HD23	1.57	0.84
36:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.12	0.84
36:DA:2511:U:H4'	40:DE:124:GLY:CA	2.06	0.84
38:DC:63:SER:HA	38:DC:160:ARG:HA	1.59	0.84
38:DC:96:GLY:HA3	38:DC:99:ILE:CG1	2.06	0.84
41:DF:137:LYS:HA	41:DF:140:LEU:CB	2.08	0.84
48:DP:84:ASN:C	48:DP:86:LYS:H	1.84	0.84
36:BA:1682:G:H5'	36:BA:1762:A:O2'	1.77	0.84
49:BQ:20:ALA:H	58:BZ:79:ARG:NH2	1.75	0.84
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:63:MET:O	2:CB:63:MET:HG3	1.75	0.84
10:CJ:4:ILE:HG13	10:CJ:99:LYS:O	1.76	0.84
12:CL:20:LYS:HD3	12:CL:20:LYS:N	1.92	0.84
13:CM:14:ARG:HG3	13:CM:44:ARG:NH1	1.93	0.84
25:CZ:137:LYS:HG2	62:CZ:501:GDP:C6	2.12	0.84
36:DA:1773:A:H2'	36:DA:1774:C:O4'	1.78	0.84
36:DA:1860:G:H1	36:DA:1882:C:N4	1.74	0.84
49:DQ:67:ARG:HD3	49:DQ:102:VAL:HB	1.59	0.84
1:AA:35:G:H2'	1:AA:36:C:C6	2.12	0.84
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.39	0.84
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.58	0.84
19:AS:41:VAL:HB	19:AS:44:MET:HG2	1.59	0.84
36:BA:622:G:O2'	36:BA:623:G:H5'	1.77	0.84
38:BC:63:SER:HA	38:BC:160:ARG:HA	1.59	0.84
41:BF:160:ASN:HB3	41:BF:163:VAL:HB	1.57	0.84
43:BH:23:ARG:O	43:BH:24:VAL:HG23	1.77	0.84
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.47	0.84
1:CA:351:G:H4'	1:CA:352:C:OP1	1.75	0.84
1:CA:1359:C:OP2	14:CN:22:THR:HG21	1.77	0.84
25:CZ:137:LYS:HA	62:CZ:501:GDP:N1	1.91	0.84
38:DC:99:ILE:HG23	38:DC:102:LYS:HZ3	1.41	0.84
36:BA:612:C:H2'	36:BA:613:G:C5'	2.08	0.84
36:BA:1668:A:H4'	36:BA:1669:A:O5'	1.77	0.84
36:BA:2807:G:C3'	36:BA:2808:U:H5''	2.08	0.84
42:BG:32:PRO:C	42:BG:33:ARG:HG3	2.03	0.84
49:BQ:67:ARG:HD3	49:BQ:102:VAL:HB	1.59	0.84
57:BY:37:VAL:HG23	57:BY:38:ILE:H	1.42	0.84
58:BZ:10:ARG:NE	58:BZ:36:LYS:HB2	1.92	0.84
16:CP:21:VAL:HG13	16:CP:33:ILE:HB	1.60	0.84
32:D6:27:LYS:CG	32:D6:30:THR:HB	2.08	0.84
39:DD:65:ILE:HD13	39:DD:65:ILE:H	1.40	0.84
36:BA:655:A:C4'	36:BA:656:G:H5'	2.07	0.84
36:BA:662:G:H2'	36:BA:663:G:C8	2.13	0.84
1:CA:975:A:H4'	1:CA:976:G:H5''	1.60	0.84
22:CV:20:U:H3'	22:CV:21:A:C5'	2.07	0.84
25:CZ:145:GLU:C	25:CZ:149:LEU:HB3	2.03	0.84
25:CZ:244:ARG:HB3	25:CZ:244:ARG:HH11	1.40	0.84
34:D8:25:MET:HG3	48:DP:64:LYS:HB2	1.58	0.84
43:DH:85:LYS:O	43:DH:132:ARG:HB2	1.78	0.84
2:AB:229:VAL:HG12	2:AB:230:VAL:H	1.41	0.84
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:24:GLU:CD	6:AF:28:ARG:HH12	1.86	0.84
9:AI:43:ALA:HB2	9:AI:74:ILE:HD13	1.59	0.84
24:CY:53:G:H5''	25:CZ:332:THR:HG21	1.59	0.84
29:D3:4:LEU:HD11	29:D3:39:ASP:OD1	1.78	0.84
36:DA:271:A:H2	36:DA:366:C:H1'	1.42	0.84
36:DA:2377:A:H2'	36:DA:2378:A:C8	2.13	0.84
38:DC:82:LYS:HG3	38:DC:147:PHE:CD1	2.12	0.84
38:DC:214:VAL:HG23	38:DC:224:ILE:HG21	1.60	0.84
1:AA:1282:C:H2'	1:AA:1283:G:C8	2.13	0.83
36:BA:1441:G:O2'	36:BA:1442:G:H5'	1.78	0.83
36:BA:1818:U:H2'	39:BD:157:ARG:HG3	1.57	0.83
36:BA:2039:C:H2'	36:BA:2040:C:H6	1.42	0.83
38:BC:82:LYS:HG3	38:BC:147:PHE:CD1	2.13	0.83
39:BD:181:GLU:HA	39:BD:272:ALA:O	1.78	0.83
46:BN:10:GLU:HG3	46:BN:11:PRO:HD2	1.60	0.83
1:CA:1125:U:H3	10:CJ:5:ARG:NH2	1.76	0.83
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.59	0.83
26:D0:27:GLU:HA	26:D0:67:VAL:O	1.77	0.83
31:D5:48:GLU:O	31:D5:49:CYS:SG	2.35	0.83
36:DA:329:G:H22	57:DY:19:LYS:HE3	1.43	0.83
36:DA:996:A:H5'	53:DU:94:ASN:HB2	1.60	0.83
36:DA:2403:C:H42	36:DA:2414:G:H1	1.26	0.83
38:DC:40:THR:HA	38:DC:177:LYS:HA	1.60	0.83
49:DQ:140:ALA:HB1	58:DZ:99:TYR:HB2	1.57	0.83
54:DV:69:LYS:HB2	54:DV:88:ARG:HD3	1.60	0.83
3:AC:58:GLU:H	3:AC:65:ALA:CB	1.91	0.83
25:AZ:241:ARG:HB2	25:AZ:285:ASN:HD21	1.41	0.83
25:AZ:268:THR:CG2	25:AZ:289:LEU:HD23	2.07	0.83
36:BA:271:A:H2	36:BA:366:C:H1'	1.42	0.83
36:BA:1010:A:H1'	36:BA:1153:C:H1'	1.60	0.83
36:BA:1047:G:N2	36:BA:1110:G:H2'	1.93	0.83
36:BA:2185:C:C2'	36:BA:2186:G:H5'	2.08	0.83
36:BA:2893:G:H5'	36:BA:2894:G:H5'	1.60	0.83
1:CA:173:U:H5'	1:CA:197:A:O4'	1.78	0.83
25:CZ:241:ARG:HB2	25:CZ:285:ASN:HD21	1.42	0.83
36:DA:265:A:H8	36:DA:266:G:H1'	1.38	0.83
36:DA:833:U:H5''	48:DP:48:PRO:CB	2.07	0.83
36:DA:1062:G:H1'	45:DK:75:UNK:CB	2.08	0.83
38:DC:147:PHE:C	38:DC:149:ILE:H	1.80	0.83
41:DF:132:VAL:HG22	41:DF:133:ASN:H	1.41	0.83
47:DO:7:TYR:HE1	47:DO:20:MET:HE3	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:37:THR:O	13:AM:39:ILE:HG13	1.77	0.83
15:AO:36:ILE:HG23	15:AO:56:LEU:HD11	1.58	0.83
29:B3:4:LEU:HD11	29:B3:39:ASP:OD1	1.78	0.83
32:B6:6:ARG:HB3	32:B6:6:ARG:HH11	1.42	0.83
36:BA:2591:C:H2'	36:BA:2592:G:C8	2.13	0.83
42:BG:130:ASN:HB3	42:BG:160:VAL:HA	1.60	0.83
57:BY:81:LYS:HD3	57:BY:97:ARG:O	1.78	0.83
37:DB:114:C:H4'	51:DS:46:VAL:HG13	1.60	0.83
39:DD:28:GLU:H	39:DD:29:PRO:HD2	1.43	0.83
7:AG:79:ARG:HG3	7:AG:83:ALA:C	2.03	0.83
25:AZ:67:HIS:HE1	25:AZ:98:GLN:HE22	1.25	0.83
32:B6:48:VAL:O	32:B6:49:HIS:ND1	2.12	0.83
1:CA:820:U:H4'	1:CA:821:G:OP2	1.77	0.83
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.58	0.83
11:CK:124:LYS:HZ2	11:CK:124:LYS:HB2	1.40	0.83
12:CL:17:LYS:HD3	12:CL:18:VAL:N	1.93	0.83
25:CZ:67:HIS:HE1	25:CZ:98:GLN:HE22	1.22	0.83
33:D7:34:ARG:HD3	33:D7:39:ARG:HG3	1.60	0.83
37:DB:30:C:H2'	37:DB:31:C:O4'	1.77	0.83
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.43	0.83
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.77	0.83
36:BA:2476:A:H2'	36:BA:2477:C:H5''	1.61	0.83
36:BA:2814:C:H2'	36:BA:2815:C:H6	1.43	0.83
41:BF:135:LYS:HB3	41:BF:138:GLU:HB2	1.59	0.83
1:CA:155:C:H2'	1:CA:156:G:C8	2.12	0.83
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.43	0.83
6:CF:24:GLU:CD	6:CF:28:ARG:HH12	1.86	0.83
8:CH:10:LEU:HD22	8:CH:83:ILE:CD1	2.06	0.83
23:CX:20:U:H2'	23:CX:21:C:H6	1.41	0.83
36:DA:1301:A:O2'	36:DA:1302:A:H2'	1.79	0.83
41:DF:11:VAL:HG12	41:DF:12:LEU:H	1.42	0.83
46:DN:28:THR:HG23	46:DN:29:LYS:N	1.93	0.83
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.60	0.83
52:DT:107:ASP:CG	52:DT:108:ARG:H	1.87	0.83
1:AA:194:C:H2'	1:AA:195:A:H5''	1.60	0.83
1:AA:226:G:O2'	1:AA:227:G:H5'	1.78	0.83
1:AA:355:C:H2'	1:AA:356:A:H8	1.44	0.83
7:AG:69:VAL:CA	7:AG:138:LYS:HD2	2.07	0.83
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.08	0.83
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.59	0.83
23:AX:23:C:H2'	23:AX:24:C:C6	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:13:ILE:CD1	36:BA:396:G:H5'	2.06	0.83
28:B2:68:ARG:HH12	28:B2:72:ALA:HB2	1.42	0.83
36:BA:2302:G:H3'	36:BA:2303:G:H8	1.44	0.83
40:BE:132:HIS:HA	40:BE:135:HIS:CE1	2.14	0.83
56:BX:44:GLU:HG3	56:BX:50:LYS:HA	1.59	0.83
4:CD:107:ARG:NH2	4:CD:194:LEU:HD12	1.92	0.83
9:CI:57:GLY:O	9:CI:58:HIS:HB2	1.75	0.83
9:CI:104:ARG:HG2	9:CI:105:ASP:H	1.44	0.83
20:CT:49:ALA:O	20:CT:53:LEU:HD12	1.78	0.83
27:D1:14:VAL:HG21	36:DA:188:G:H5'	1.61	0.83
36:DA:2377:A:H2'	36:DA:2378:A:H8	1.43	0.83
38:DC:214:VAL:HG23	38:DC:224:ILE:HD13	1.59	0.83
1:AA:155:C:H2'	1:AA:156:G:C8	2.14	0.83
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	1.93	0.83
34:B8:10:ALA:CA	34:B8:13:ARG:HG2	2.09	0.83
36:BA:1301:A:O2'	36:BA:1302:A:H2'	1.79	0.83
36:BA:1503:U:H2'	36:BA:1504:C:H6	1.44	0.83
36:BA:1503:U:H2'	36:BA:1504:C:C6	2.14	0.83
36:BA:2122:U:H2'	36:BA:2123:G:C8	2.14	0.83
36:BA:2837:G:H2'	36:BA:2838:G:H8	1.43	0.83
40:BE:38:THR:HB	40:BE:41:LYS:HG2	1.60	0.83
1:CA:194:C:H2'	1:CA:195:A:H5''	1.61	0.83
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.42	0.83
19:CS:16:LEU:CA	19:CS:19:VAL:HB	2.06	0.83
20:CT:72:LEU:HD22	20:CT:76:ALA:HB1	1.60	0.83
25:CZ:322:VAL:CG1	25:CZ:364:PRO:HA	2.07	0.83
30:D4:10:VAL:HG23	30:D4:11:PRO:HD2	1.61	0.83
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	1.77	0.83
11:AK:52:GLY:O	11:AK:55:LYS:HE2	1.79	0.83
36:BA:372:G:H22	36:BA:400:G:H2'	1.39	0.83
36:BA:996:A:O2'	36:BA:997:G:H5'	1.79	0.83
36:BA:2379:G:H2'	36:BA:2380:C:C6	2.14	0.83
36:BA:2841:C:H2'	36:BA:2842:G:C8	2.14	0.83
42:BG:85:GLY:O	42:BG:86:MET:HB3	1.79	0.83
58:BZ:61:LEU:HD11	58:BZ:67:LEU:HD13	1.59	0.83
1:CA:78:G:H22	1:CA:91:C:N4	1.77	0.83
1:CA:736:C:H2'	1:CA:737:A:H8	1.39	0.83
1:CA:1301:U:H3'	1:CA:1302:U:C5'	2.08	0.83
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.79	0.83
36:DA:2127:G:H4'	38:DC:37:PHE:CD1	2.13	0.83
36:DA:2807:G:H1	36:DA:2893:G:H1	1.23	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:68:TYR:O	52:DT:70:VAL:N	2.12	0.83
58:DZ:76:LEU:HD11	58:DZ:81:ARG:HH12	1.43	0.83
1:AA:408:A:H4'	4:AD:112:VAL:HG11	1.58	0.83
10:AJ:4:ILE:HG13	10:AJ:99:LYS:O	1.78	0.83
18:AR:45:SER:HA	18:AR:51:LEU:HD21	1.59	0.83
36:BA:884:C:H42	36:BA:893:C:H42	1.26	0.83
46:BN:83:LYS:HG2	46:BN:84:LYS:N	1.94	0.83
48:BP:105:LEU:O	48:BP:106:LEU:HB2	1.77	0.83
52:BT:62:THR:HG22	52:BT:75:ILE:HG23	1.61	0.83
1:CA:368:U:OP2	25:CZ:291:ARG:HD3	1.78	0.83
1:CA:1282:C:H2'	1:CA:1283:G:H8	1.43	0.83
4:CD:100:ARG:HE	4:CD:118:ARG:HH22	1.26	0.83
25:CZ:215:ARG:HB3	25:CZ:282:ALA:HB3	1.61	0.83
26:D0:37:LEU:HB2	26:D0:59:LEU:HB2	1.61	0.83
40:DE:30:PRO:HD3	40:DE:180:ASN:ND2	1.94	0.83
42:DG:7:LEU:HD22	42:DG:100:TRP:CZ3	2.14	0.83
49:DQ:42:ILE:O	49:DQ:94:VAL:HA	1.79	0.83
1:AA:447:G:H2'	1:AA:485:G:N2	1.92	0.83
36:BA:1132:A:N3	46:BN:73:THR:HG21	1.94	0.83
36:BA:2122:U:H2'	36:BA:2123:G:H8	1.41	0.83
52:BT:107:ASP:CG	52:BT:108:ARG:H	1.83	0.83
1:CA:35:G:H2'	1:CA:36:C:C6	2.13	0.83
1:CA:80:G:H1	1:CA:90:U:H5'	1.43	0.83
2:CB:80:ILE:HD12	2:CB:80:ILE:H	1.40	0.83
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.08	0.83
6:CF:84:ASN:N	6:CF:84:ASN:HD22	1.74	0.83
36:DA:802:A:H2'	36:DA:803:U:C6	2.12	0.83
54:DV:29:PRO:HA	54:DV:61:VAL:CG2	2.09	0.83
22:AV:20:U:H3'	22:AV:21:A:C5'	2.09	0.82
1:CA:811:C:H4'	1:CA:900:A:N6	1.94	0.82
36:DA:925:C:H2'	36:DA:926:A:C5'	2.04	0.82
37:DB:68:C:H2'	37:DB:69:G:H8	1.43	0.82
49:DQ:34:LEU:HD11	49:DQ:129:THR:HB	1.59	0.82
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.27	0.82
1:AA:1324:A:H4'	1:AA:1362:C:H4'	1.61	0.82
5:AE:110:LEU:HD13	5:AE:118:ILE:HG21	1.62	0.82
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.61	0.82
7:AG:126:ASP:HB3	7:AG:131:LYS:O	1.78	0.82
20:AT:49:ALA:O	20:AT:53:LEU:HD12	1.78	0.82
22:AV:63:G:H2'	22:AV:64:A:C8	2.14	0.82
23:AX:20:U:H2'	23:AX:21:C:H6	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2208:A:H1'	36:BA:2219:G:N7	1.92	0.82
43:BH:153:LYS:H	43:BH:153:LYS:HD3	1.43	0.82
52:BT:60:THR:HG22	52:BT:77:PRO:HA	1.60	0.82
1:CA:711:G:H2'	1:CA:712:A:H8	1.41	0.82
15:CO:10:LYS:HE3	15:CO:10:LYS:C	2.04	0.82
38:DC:99:ILE:HD12	38:DC:102:LYS:HZ3	1.43	0.82
1:AA:18:C:H5''	5:AE:127:ASN:ND2	1.92	0.82
1:AA:80:G:H1	1:AA:90:U:H5'	1.43	0.82
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.09	0.82
36:BA:827:U:H2'	36:BA:2068:U:C2	2.14	0.82
36:BA:1803:A:O3'	39:BD:259:THR:HG21	1.80	0.82
36:BA:2498:C:O2'	36:BA:2499:C:H5'	1.79	0.82
41:BF:137:LYS:HA	41:BF:140:LEU:HB3	1.61	0.82
49:BQ:44:ALA:HA	49:BQ:47:ILE:HD12	1.59	0.82
36:DA:145:G:H2'	36:DA:146:G:H5''	1.60	0.82
42:DG:5:VAL:H	42:DG:8:LYS:HB3	1.44	0.82
42:DG:114:ILE:HG23	42:DG:114:ILE:O	1.78	0.82
47:DO:72:PRO:C	47:DO:74:GLY:H	1.87	0.82
58:DZ:101:PRO:O	58:DZ:102:LEU:HD23	1.79	0.82
1:AA:10:A:OP2	5:AE:126:ARG:HD3	1.78	0.82
1:AA:80:G:N1	1:AA:90:U:H5'	1.94	0.82
1:AA:736:C:H2'	1:AA:737:A:H8	1.41	0.82
15:AO:10:LYS:HE3	15:AO:10:LYS:O	1.80	0.82
36:BA:659:C:H2'	36:BA:660:G:H8	1.43	0.82
36:BA:1297:C:OP1	36:BA:2710:C:H4'	1.79	0.82
39:BD:30:GLU:HG3	39:BD:63:ARG:CZ	2.09	0.82
39:BD:34:VAL:HG23	39:BD:35:LYS:H	1.45	0.82
39:BD:126:GLN:O	39:BD:193:VAL:HG11	1.80	0.82
41:BF:11:VAL:HG12	41:BF:12:LEU:H	1.43	0.82
48:BP:16:ARG:HH11	48:BP:16:ARG:C	1.87	0.82
1:CA:80:G:N1	1:CA:90:U:H5'	1.93	0.82
2:CB:107:THR:HG23	2:CB:110:GLN:HE22	1.43	0.82
5:CE:76:ILE:HG12	5:CE:78:HIS:H	1.43	0.82
11:CK:52:GLY:O	11:CK:55:LYS:HE2	1.78	0.82
16:CP:5:ARG:C	16:CP:6:LEU:HD12	2.04	0.82
36:DA:6:A:O2'	46:DN:130:HIS:HB2	1.79	0.82
36:DA:2401:U:C2'	36:DA:2402:C:H5''	2.09	0.82
40:DE:195:LEU:HD12	40:DE:196:VAL:N	1.94	0.82
41:DF:53:THR:HG22	41:DF:56:GLU:HG3	1.58	0.82
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.61	0.82
57:DY:81:LYS:NZ	57:DY:99:CYS:HB2	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:438:G:C5'	4:AD:123:HIS:HD1	1.93	0.82
13:AM:15:VAL:HG22	13:AM:41:PRO:O	1.80	0.82
1:CA:892:A:O2'	1:CA:1415:G:H4'	1.79	0.82
1:CA:1442(B):A:C2	52:DT:118:ARG:CZ	2.63	0.82
31:D5:44:THR:HG22	31:D5:45:VAL:H	1.42	0.82
34:D8:10:ALA:CA	34:D8:13:ARG:HG2	2.09	0.82
36:DA:655:A:C4'	36:DA:656:G:H5'	2.06	0.82
36:DA:904:C:H2'	36:DA:905:U:H6	1.43	0.82
36:DA:1353:A:H4'	39:DD:38:LYS:HE3	1.61	0.82
36:DA:1503:U:H2'	36:DA:1504:C:C6	2.14	0.82
36:DA:2039:C:H2'	36:DA:2040:C:H6	1.44	0.82
36:DA:2837:G:H2'	36:DA:2838:G:H8	1.44	0.82
36:DA:2841:C:H2'	36:DA:2842:G:C8	2.14	0.82
55:DW:78:GLU:OE2	55:DW:99:ARG:HD2	1.80	0.82
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.15	0.82
32:B6:16:CYS:O	32:B6:17:LYS:HG2	1.80	0.82
38:BC:100:ILE:CG2	38:BC:127:LEU:HG	2.10	0.82
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.60	0.82
12:CL:18:VAL:HG23	12:CL:19:ARG:N	1.90	0.82
18:CR:47:THR:HG21	18:CR:49:LYS:HZ1	1.41	0.82
36:DA:795:C:H2'	36:DA:796:C:C6	2.15	0.82
36:DA:2508:G:H1	36:DA:2580:U:H3	1.27	0.82
36:DA:2762:G:H8	36:DA:2762:G:H5'	1.43	0.82
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.62	0.82
36:BA:662:G:OP1	48:BP:18:ARG:HD2	1.79	0.82
36:BA:2377:A:H2'	36:BA:2378:A:C8	2.15	0.82
39:BD:65:ILE:HD13	39:BD:65:ILE:N	1.93	0.82
43:BH:85:LYS:O	43:BH:132:ARG:HB2	1.80	0.82
50:BR:13:HIS:CE1	50:BR:16:HIS:H	1.97	0.82
2:CB:21:ARG:CZ	2:CB:39:ILE:HG12	2.10	0.82
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.60	0.82
32:D6:5:VAL:CG1	36:DA:2283:C:H5'	2.10	0.82
36:DA:2476:A:H2'	36:DA:2477:C:H5''	1.61	0.82
1:AA:56:U:H2'	1:AA:57:G:C8	2.15	0.82
1:AA:337:C:H2'	1:AA:338:A:H8	1.44	0.82
1:AA:1301:U:H3'	1:AA:1302:U:C5'	2.10	0.82
36:BA:89:G:H3'	36:BA:90:U:H5''	1.60	0.82
36:BA:90:U:H1'	36:BA:92:A:C8	2.15	0.82
36:BA:1598:C:H5'	56:BX:36:LYS:CG	2.09	0.82
36:BA:2020:A:O2'	36:BA:2021:C:H5'	1.79	0.82
40:BE:82:ARG:HG3	40:BE:82:ARG:HH11	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.45	0.82
4:CD:28:SER:HB3	4:CD:29:PRO:CD	2.10	0.82
32:D6:39:TYR:O	32:D6:41:PRO:HD3	1.80	0.82
34:D8:50:LEU:C	34:D8:53:PRO:HD2	2.05	0.82
36:DA:1503:U:H2'	36:DA:1504:C:H6	1.45	0.82
36:DA:1842:G:H2'	36:DA:1843:C:H6	1.42	0.82
40:DE:117:MET:SD	40:DE:136:ARG:HG2	2.19	0.82
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.05	0.82
24:AY:75:C:H6	25:AZ:231:ILE:HG23	1.43	0.82
36:BA:271(M):G:C2'	36:BA:271(N):U:H5''	2.08	0.82
36:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.15	0.82
38:BC:40:THR:HA	38:BC:177:LYS:HA	1.61	0.82
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.44	0.82
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	2.19	0.82
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.43	0.82
11:CK:120:ARG:HH22	11:CK:126:ARG:HE	1.27	0.82
36:DA:1860:G:H1	36:DA:1882:C:H42	1.25	0.82
36:DA:2760:C:H2'	36:DA:2761:G:H5''	1.60	0.82
36:DA:2814:C:H2'	36:DA:2815:C:H6	1.43	0.82
38:DC:10:LEU:HD12	38:DC:32:LEU:HD23	1.61	0.82
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.49	0.82
4:AD:107:ARG:NH2	4:AD:194:LEU:HD12	1.94	0.82
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.09	0.82
18:AR:47:THR:HG21	18:AR:49:LYS:HZ1	1.45	0.82
25:AZ:38:GLU:HG3	25:AZ:189:ARG:HH11	1.41	0.82
25:AZ:38:GLU:HG3	25:AZ:189:ARG:HH12	1.41	0.82
28:B2:25:VAL:C	28:B2:27:GLU:H	1.86	0.82
32:B6:27:LYS:CG	32:B6:30:THR:HB	2.09	0.82
42:BG:105:LYS:HE3	42:BG:143:GLU:OE1	1.80	0.82
47:BO:72:PRO:C	47:BO:74:GLY:H	1.85	0.82
36:DA:2122:U:H2'	36:DA:2123:G:H8	1.44	0.82
5:AE:76:ILE:HG12	5:AE:78:HIS:H	1.43	0.81
1:CA:1477:C:H2'	1:CA:1478:C:C6	2.15	0.81
4:CD:62:GLN:O	4:CD:66:ARG:HB2	1.80	0.81
26:D0:11:ARG:HH11	26:D0:11:ARG:CB	1.93	0.81
28:D2:27:GLU:O	28:D2:30:ARG:N	2.12	0.81
28:D2:47:ASN:ND2	36:DA:94(A):G:H21	1.76	0.81
36:DA:659:C:H2'	36:DA:660:G:H8	1.45	0.81
36:DA:1370:C:H3'	36:DA:1371:G:H8	1.45	0.81
36:DA:1612:C:H42	36:DA:1619:G:H1	1.28	0.81
36:DA:2208:A:H1'	36:DA:2219:G:N7	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:35:LYS:HD2	39:DD:36:PRO:N	1.94	0.81
43:DH:153:LYS:HD3	43:DH:153:LYS:H	1.44	0.81
56:DX:44:GLU:HG3	56:DX:50:LYS:HA	1.61	0.81
57:DY:46:LYS:N	57:DY:62:GLU:HG2	1.93	0.81
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.62	0.81
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.44	0.81
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.62	0.81
16:AP:14:ASN:HA	16:AP:42:ARG:NH1	1.93	0.81
16:AP:21:VAL:HG13	16:AP:33:ILE:HB	1.62	0.81
36:BA:2248:C:H2'	36:BA:2249:U:H5'	1.62	0.81
41:BF:132:VAL:HG22	41:BF:133:ASN:H	1.42	0.81
1:CA:117:G:O6	1:CA:289:G:H1'	1.81	0.81
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.10	0.81
7:CG:126:ASP:HB3	7:CG:131:LYS:O	1.80	0.81
28:D2:25:VAL:HG11	28:D2:61:LEU:HD21	1.61	0.81
36:DA:1314:C:H5'	36:DA:1314:C:H6	1.41	0.81
36:DA:2122:U:H2'	36:DA:2123:G:C8	2.15	0.81
36:DA:2302:G:H3'	36:DA:2303:G:H8	1.45	0.81
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.80	0.81
2:AB:229:VAL:HG12	2:AB:230:VAL:N	1.95	0.81
12:AL:25:PRO:C	12:AL:27:LEU:H	1.85	0.81
32:B6:36:LEU:HD12	32:B6:50:ARG:NH2	1.94	0.81
36:BA:145:G:H2'	36:BA:146:G:H5''	1.62	0.81
36:BA:483:A:H1'	57:BY:60:PHE:CZ	2.15	0.81
36:BA:523:C:C2'	36:BA:524:U:H5'	2.10	0.81
36:BA:626:U:C2	48:BP:105:LEU:HG	2.16	0.81
36:BA:2008:C:H2'	36:BA:2009:G:H8	1.41	0.81
36:BA:2401:U:C2'	36:BA:2402:C:H5''	2.10	0.81
40:BE:107:THR:O	40:BE:190:GLY:HA2	1.79	0.81
51:BS:94:TYR:O	51:BS:95:HIS:HB3	1.77	0.81
1:CA:376:G:H2'	1:CA:377:G:C8	2.16	0.81
1:CA:1221:G:OP1	19:CS:36:ARG:HD3	1.80	0.81
4:CD:100:ARG:NH2	4:CD:118:ARG:HH12	1.77	0.81
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	1.79	0.81
5:CE:150:ARG:NH1	5:CE:150:ARG:HB2	1.95	0.81
7:CG:84:ASN:OD1	22:CW:33:U:H5'	1.80	0.81
18:CR:45:SER:HA	18:CR:51:LEU:HD21	1.63	0.81
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.61	0.81
20:CT:36:LEU:CD1	20:CT:59:ALA:HB2	2.10	0.81
29:D3:35:ARG:HB2	29:D3:35:ARG:HH11	1.45	0.81
32:D6:27:LYS:HG3	32:D6:30:THR:CB	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:622:G:O2'	36:DA:623:G:H5'	1.79	0.81
36:DA:774:A:H2	36:DA:787:U:HO2'	1.28	0.81
36:DA:1543:C:H3'	36:DA:1544:A:C5'	2.09	0.81
36:DA:2010:G:OP1	55:DW:41:LYS:HD3	1.80	0.81
36:DA:2022:U:O2'	36:DA:2617:C:H5'	1.80	0.81
48:DP:16:ARG:HH11	48:DP:16:ARG:C	1.87	0.81
49:DQ:43:THR:HB	49:DQ:45:GLN:NE2	1.96	0.81
1:AA:770:C:O2'	1:AA:771:G:H5'	1.79	0.81
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.62	0.81
36:BA:398:G:H2'	36:BA:399:G:H8	1.45	0.81
36:BA:2508:G:H1	36:BA:2580:U:H3	1.25	0.81
40:BE:69:LYS:HE2	40:BE:69:LYS:H	1.45	0.81
41:BF:51:THR:HG21	41:BF:91:GLY:HA3	1.62	0.81
43:BH:85:LYS:HZ1	43:BH:132:ARG:HA	1.43	0.81
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.60	0.81
24:CY:16:H2U:H61	24:CY:16:H2U:C5'	2.11	0.81
25:CZ:107:SER:OG	25:CZ:137:LYS:HD2	1.81	0.81
27:D1:17:SER:OG	27:D1:38:SER:HB2	1.80	0.81
28:D2:35:LEU:C	28:D2:35:LEU:HD13	2.05	0.81
36:DA:89:G:H3'	36:DA:90:U:H5''	1.61	0.81
36:DA:90:U:H1'	36:DA:92:A:C8	2.15	0.81
52:DT:32:TYR:O	52:DT:33:LYS:HB2	1.78	0.81
1:AA:1389:C:H2'	1:AA:1390:U:O4'	1.80	0.81
11:AK:124:LYS:HZ2	11:AK:124:LYS:HB2	1.46	0.81
29:B3:1:MET:HE1	29:B3:40:THR:HA	1.62	0.81
44:BJ:25:UNK:HA	44:BJ:116:UNK:CB	2.11	0.81
49:BQ:110:THR:HG23	49:BQ:113:GLN:H	1.45	0.81
58:BZ:5:LEU:HB2	58:BZ:59:LEU:HD22	1.62	0.81
1:CA:254:G:H21	17:CQ:16:GLN:HE22	1.25	0.81
1:CA:627:G:H2'	1:CA:628:G:H8	1.44	0.81
41:DF:137:LYS:HA	41:DF:140:LEU:HB3	1.62	0.81
42:DG:82:LEU:HD22	42:DG:87:PRO:HG3	1.61	0.81
43:DH:52:VAL:HG21	43:DH:69:ARG:HB2	1.60	0.81
47:DO:2:ILE:CD1	47:DO:82:ASN:HD22	1.92	0.81
55:DW:8:ARG:HA	55:DW:102:HIS:CB	2.10	0.81
58:DZ:17:ALA:HA	58:DZ:20:ARG:HD3	1.62	0.81
1:AA:295:C:H2'	1:AA:296:U:H6	1.42	0.81
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.62	0.81
28:B2:25:VAL:HG11	28:B2:61:LEU:HD21	1.62	0.81
31:B5:44:THR:HG21	50:BR:101:ALA:HB2	1.63	0.81
31:B5:48:GLU:O	31:B5:49:CYS:SG	2.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:23:VAL:CG1	34:B8:46:ARG:HB3	2.10	0.81
34:B8:30:ARG:NE	34:B8:30:ARG:HA	1.96	0.81
36:BA:1314:C:H5'	36:BA:1314:C:H6	1.44	0.81
38:BC:94:VAL:HG12	38:BC:95:GLY:N	1.95	0.81
50:BR:99:LYS:HD2	50:BR:99:LYS:N	1.95	0.81
2:CB:69:LEU:HD12	2:CB:71:VAL:HG23	1.63	0.81
34:D8:23:VAL:CG1	34:D8:46:ARG:HB3	2.10	0.81
36:DA:2248:C:H2'	36:DA:2249:U:H5'	1.61	0.81
39:DD:34:VAL:HG23	39:DD:35:LYS:H	1.44	0.81
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	1.81	0.81
9:AI:104:ARG:HG2	9:AI:105:ASP:H	1.46	0.81
32:B6:27:LYS:HG3	32:B6:30:THR:CB	2.09	0.81
36:BA:537:C:N4	36:BA:556:G:H1	1.79	0.81
1:CA:405:U:H3'	1:CA:406:G:H5'	1.59	0.81
1:CA:1282:C:H2'	1:CA:1283:G:C8	2.15	0.81
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	1.60	0.81
24:CY:54:5MU:H2'	24:CY:55:PSU:H5'	1.62	0.81
32:D6:16:CYS:SG	32:D6:48:VAL:HG22	2.19	0.81
36:DA:676:A:H8	36:DA:2443:C:H1'	1.46	0.81
41:DF:39:TRP:CH2	41:DF:106:ARG:HD2	2.15	0.81
42:DG:29:TRP:CE3	42:DG:29:TRP:HA	2.16	0.81
46:DN:83:LYS:HG2	46:DN:84:LYS:N	1.96	0.81
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.62	0.81
58:DZ:52:SER:O	58:DZ:53:ILE:HG23	1.81	0.81
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.16	0.81
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.16	0.81
14:AN:57:ARG:HB3	14:AN:57:ARG:NH1	1.95	0.81
20:AT:50:GLU:HG3	20:AT:100:ILE:HG12	1.61	0.81
29:B3:56:VAL:HG12	29:B3:57:GLU:H	1.45	0.81
36:BA:1190:G:H5'	48:BP:35:HIS:N	1.94	0.81
36:BA:2025:C:H2'	36:BA:2026:C:H6	1.43	0.81
36:BA:2328:A:H2'	36:BA:2329:G:C8	2.16	0.81
36:BA:2846:G:OP2	52:BT:54:ARG:HD2	1.81	0.81
49:BQ:140:ALA:HB1	58:BZ:99:TYR:CB	2.10	0.81
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.46	0.81
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.61	0.81
18:CR:58:LEU:HD22	18:CR:62:GLU:HB3	1.61	0.81
20:CT:50:GLU:HG3	20:CT:100:ILE:HG12	1.61	0.81
31:D5:31:VAL:HG11	36:DA:2886:G:H21	1.45	0.81
33:D7:8:ASN:HD22	33:D7:8:ASN:C	1.87	0.81
36:DA:633:A:H5''	48:DP:77:ARG:HH12	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1259:G:O2'	36:DA:1260:G:H5'	1.81	0.81
36:DA:1353:A:H2'	36:DA:1354:A:C8	2.15	0.81
38:DC:100:ILE:CG2	38:DC:127:LEU:HG	2.11	0.81
41:DF:51:THR:HG21	41:DF:91:GLY:HA3	1.62	0.81
47:DO:23:ARG:HG3	47:DO:24:VAL:N	1.96	0.81
48:DP:105:LEU:O	48:DP:106:LEU:HB2	1.80	0.81
51:DS:94:TYR:O	51:DS:95:HIS:HB3	1.78	0.81
4:AD:100:ARG:HE	4:AD:118:ARG:HH22	1.27	0.81
5:AE:47:LYS:HD3	5:AE:47:LYS:N	1.96	0.81
36:BA:1599:C:H2'	36:BA:1600:C:H6	1.45	0.81
36:BA:2206:G:N2	36:BA:2207:G:H4'	1.96	0.81
36:BA:2358:G:N2	36:BA:2359:C:H1'	1.94	0.81
54:BV:29:PRO:HA	54:BV:61:VAL:CG2	2.11	0.81
55:BW:8:ARG:HA	55:BW:102:HIS:CB	2.09	0.81
1:CA:344:A:H4'	1:CA:345:C:OP2	1.79	0.81
9:CI:43:ALA:HB2	9:CI:74:ILE:HD13	1.62	0.81
22:CW:68:C:H2'	22:CW:69:G:C8	2.14	0.81
29:D3:1:MET:HE1	29:D3:40:THR:HA	1.63	0.81
36:DA:122:G:H1	36:DA:129:C:H42	1.28	0.81
36:DA:151:C:H2'	36:DA:152:G:C8	2.16	0.81
36:DA:1290:C:H2'	36:DA:1291:C:H6	1.45	0.81
58:DZ:96:VAL:HG22	58:DZ:97:GLU:H	1.46	0.81
1:AA:737:A:H2'	1:AA:738:C:H6	1.45	0.81
36:BA:802:A:H2'	36:BA:803:U:C6	2.16	0.81
36:BA:996:A:H5'	53:BU:94:ASN:HB2	1.62	0.81
36:BA:2672:G:C2'	36:BA:2673:G:H5''	2.11	0.81
41:BF:137:LYS:HG2	41:BF:140:LEU:HD23	1.63	0.81
1:CA:63:C:H42	1:CA:104:G:H1	1.28	0.81
1:CA:831:U:H2'	1:CA:832:C:C5	2.15	0.81
13:CM:37:THR:O	13:CM:39:ILE:HG13	1.81	0.81
24:CY:41:G:C2'	24:CY:42:U:H5''	2.08	0.81
28:D2:3:LEU:HD12	36:DA:98:G:C5'	2.11	0.81
36:DA:863:A:H2'	36:DA:864:G:C8	2.15	0.81
36:DA:2110:G:H22	36:DA:2178:C:H41	1.28	0.81
41:DF:82:ILE:O	41:DF:83:PHE:CB	2.29	0.81
53:DU:95:LEU:HD12	54:DV:11:GLN:HE21	1.46	0.81
58:DZ:85:HIS:CD2	58:DZ:86:VAL:H	1.99	0.81
58:DZ:102:LEU:HD11	58:DZ:124:ILE:CG2	2.10	0.81
1:AA:985:C:H2'	1:AA:986:A:C8	2.16	0.80
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.60	0.80
6:AF:84:ASN:N	6:AF:84:ASN:HD22	1.76	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:14:ARG:HG3	13:AM:44:ARG:NH1	1.94	0.80
36:BA:654(N):G:H2'	36:BA:654(O):G:O4'	1.81	0.80
36:BA:827:U:H2'	36:BA:2068:U:O2	1.81	0.80
36:BA:926:A:H8	36:BA:926:A:H5'	1.46	0.80
36:BA:2801(A):A:H4'	36:BA:2802:G:H5'	1.63	0.80
39:BD:35:LYS:HD2	39:BD:36:PRO:N	1.96	0.80
41:BF:101:LEU:HD12	41:BF:102:PRO:HD2	1.62	0.80
1:CA:744:C:H2'	1:CA:745:C:C6	2.15	0.80
29:D3:56:VAL:HG12	29:D3:57:GLU:H	1.45	0.80
36:DA:733:G:H8	36:DA:733:G:O5'	1.64	0.80
36:DA:1916:A:H2'	36:DA:1917:U:O4'	1.80	0.80
36:DA:2498:C:O2'	36:DA:2499:C:H5'	1.80	0.80
40:DE:132:HIS:HA	40:DE:135:HIS:CE1	2.16	0.80
42:DG:142:PRO:HG2	42:DG:143:GLU:HG2	1.60	0.80
47:DO:107:ARG:NH1	52:DT:35:LYS:HD2	1.96	0.80
49:DQ:44:ALA:HA	49:DQ:47:ILE:HD12	1.61	0.80
56:DX:60:ARG:HG3	56:DX:75:ASP:OD2	1.80	0.80
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG23	1.61	0.80
1:AA:173:U:H5'	1:AA:197:A:O4'	1.80	0.80
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.43	0.80
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	1.97	0.80
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.62	0.80
25:AZ:38:GLU:CG	25:AZ:189:ARG:HH11	1.92	0.80
25:AZ:145:GLU:C	25:AZ:149:LEU:HB3	2.05	0.80
42:BG:85:GLY:O	42:BG:87:PRO:HD3	1.80	0.80
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.62	0.80
1:CA:389:A:H2'	1:CA:390:C:H5'	1.62	0.80
7:CG:64:GLN:HE21	7:CG:68:ASN:ND2	1.79	0.80
9:CI:10:ARG:HB2	9:CI:76:ALA:HB2	1.61	0.80
23:CX:23:C:H2'	23:CX:24:C:C6	2.16	0.80
35:D9:1:MET:SD	36:DA:2477:C:H2'	2.21	0.80
36:DA:298:G:N2	36:DA:339:U:H5	1.79	0.80
36:DA:654(N):G:H2'	36:DA:654(O):G:O4'	1.82	0.80
42:DG:5:VAL:HG12	42:DG:6:ALA:N	1.96	0.80
36:BA:1259:G:O2'	36:BA:1260:G:H5'	1.81	0.80
37:BB:80:U:H2'	37:BB:81:G:N2	1.96	0.80
41:BF:39:TRP:CH2	41:BF:106:ARG:HD2	2.16	0.80
47:BO:87:ILE:HG22	47:BO:88:ASN:O	1.81	0.80
1:CA:1500:A:H5''	1:CA:1508:G:H5''	1.63	0.80
16:CP:27:LYS:HG2	16:CP:30:GLY:HA3	1.60	0.80
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:271:GLU:HG2	25:CZ:276:THR:HA	1.63	0.80
36:DA:106:C:H2'	36:DA:107:C:H6	1.47	0.80
36:DA:523:C:C2'	36:DA:524:U:H5'	2.11	0.80
36:DA:626:U:C2	48:DP:105:LEU:HG	2.16	0.80
36:DA:769:G:O2'	36:DA:770:G:H5'	1.81	0.80
46:DN:111:PRO:HG3	46:DN:114:ARG:HH22	1.46	0.80
47:DO:87:ILE:HG22	47:DO:88:ASN:O	1.80	0.80
50:DR:84:ALA:HB3	50:DR:85:PRO:HD3	1.63	0.80
51:DS:35:ILE:HD11	51:DS:99:LYS:HE3	1.63	0.80
57:DY:81:LYS:HD3	57:DY:97:ARG:O	1.80	0.80
1:AA:78:G:H22	1:AA:91:C:N4	1.79	0.80
1:AA:389:A:H2'	1:AA:390:C:H5'	1.61	0.80
1:AA:820:U:H4'	1:AA:821:G:OP2	1.82	0.80
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	1.81	0.80
30:B4:10:VAL:HG23	30:B4:11:PRO:HD2	1.63	0.80
36:BA:819:A:H2'	36:BA:820:A:H5'	1.63	0.80
36:BA:2246:G:H2'	36:BA:2247:A:C8	2.16	0.80
36:BA:2762:G:H8	36:BA:2762:G:H5'	1.43	0.80
36:BA:2840:C:H5''	50:BR:53:HIS:HD2	1.38	0.80
37:BB:20:C:C2'	37:BB:21:G:H5''	2.11	0.80
38:BC:100:ILE:HG21	38:BC:126:LYS:CB	2.11	0.80
38:BC:214:VAL:HG23	38:BC:224:ILE:HD13	1.64	0.80
39:BD:177:LEU:O	39:BD:179:SER:N	2.14	0.80
53:BU:52:ARG:CZ	53:BU:55:ARG:HH22	1.94	0.80
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.63	0.80
57:BY:39:VAL:HG12	57:BY:40:GLU:H	1.47	0.80
1:CA:18:C:H5''	5:CE:127:ASN:ND2	1.96	0.80
32:D6:11:LEU:HD13	32:D6:12:GLU:N	1.97	0.80
36:DA:1005:C:H2'	36:DA:1006:C:C6	2.17	0.80
37:DB:91:C:H5'	49:DQ:17:LEU:O	1.81	0.80
40:DE:38:THR:HB	40:DE:41:LYS:HG2	1.62	0.80
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.17	0.80
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.12	0.80
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.62	0.80
24:AY:16:H2U:H61	24:AY:16:H2U:C5'	2.11	0.80
27:B1:11:ARG:NH1	27:B1:11:ARG:HB3	1.96	0.80
36:BA:634:C:H2'	36:BA:635:C:H6	1.45	0.80
42:BG:71:THR:HB	42:BG:89:GLY:O	1.82	0.80
42:BG:131:TYR:HE2	42:BG:133:LEU:HB3	1.46	0.80
43:BH:148:ILE:O	43:BH:162:ILE:HD13	1.82	0.80
57:BY:81:LYS:HZ3	57:BY:99:CYS:HB2	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:337:C:H2'	1:CA:338:A:H8	1.46	0.80
1:CA:807:A:H2'	1:CA:808:C:H6	1.46	0.80
24:CY:75:C:C5	25:CZ:231:ILE:HA	2.17	0.80
36:DA:1047:G:N2	36:DA:1110:G:H2'	1.95	0.80
39:DD:66:ASP:CG	39:DD:103:ARG:HH21	1.87	0.80
40:DE:69:LYS:H	40:DE:69:LYS:HE2	1.47	0.80
58:DZ:51:ALA:O	58:DZ:53:ILE:N	2.14	0.80
2:AB:87:ARG:HD2	2:AB:87:ARG:O	1.82	0.80
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.46	0.80
25:AZ:171:ILE:HG13	25:AZ:201:GLU:HB3	1.64	0.80
25:AZ:234:ARG:HB3	25:AZ:289:LEU:HD13	1.62	0.80
36:BA:594:U:H2'	36:BA:595:C:C6	2.17	0.80
54:BV:5:VAL:HG23	54:BV:37:VAL:O	1.82	0.80
28:D2:69:ARG:CZ	36:DA:111:A:H4'	2.11	0.80
36:DA:1297:C:H2'	36:DA:1298:C:H6	1.47	0.80
36:DA:1803:A:O3'	39:DD:259:THR:HG21	1.82	0.80
36:DA:2506:U:H5'	36:DA:2506:U:H6	1.43	0.80
39:DD:177:LEU:O	39:DD:179:SER:N	2.15	0.80
42:DG:112:PRO:HG2	42:DG:113:ARG:H	1.45	0.80
1:AA:346:G:H5'	52:BT:41:ARG:HH21	1.46	0.80
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.46	0.80
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.81	0.80
8:AH:29:SER:HB3	8:AH:32:LYS:HB2	1.63	0.80
24:AY:54:5MU:H2'	24:AY:55:PSU:H5'	1.64	0.80
36:BA:560:C:H1'	53:BU:49:HIS:HE1	1.46	0.80
36:BA:795:C:H2'	36:BA:796:C:C6	2.16	0.80
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.44	0.80
22:CV:63:G:H2'	22:CV:64:A:C8	2.16	0.80
25:CZ:256:VAL:HG13	25:CZ:262:THR:HG22	1.64	0.80
34:D8:15:LYS:CD	48:DP:65:ARG:HH22	1.94	0.80
38:DC:119:VAL:O	38:DC:123:VAL:HB	1.82	0.80
42:DG:48:GLU:HG3	42:DG:81:LYS:HE3	1.64	0.80
46:DN:21:LYS:HD3	46:DN:22:THR:H	1.45	0.80
57:DY:37:VAL:HG23	57:DY:38:ILE:N	1.96	0.80
1:AA:150:C:C2'	1:AA:151:A:H5''	2.12	0.80
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HG3	2.10	0.80
32:B6:16:CYS:SG	32:B6:48:VAL:HG22	2.21	0.80
36:BA:234:C:H2'	36:BA:235:U:C6	2.16	0.80
36:BA:1374:G:H2'	36:BA:1375:C:C6	2.16	0.80
36:BA:1820:U:O2'	39:BD:159:ALA:HB3	1.82	0.80
36:BA:2222:G:H2'	36:BA:2223:G:H8	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2377:A:H2'	36:BA:2378:A:H8	1.46	0.80
38:BC:99:ILE:HG23	38:BC:102:LYS:NZ	1.97	0.80
39:BD:91:ARG:HH11	39:BD:91:ARG:HG2	1.45	0.80
40:BE:195:LEU:HD12	40:BE:196:VAL:N	1.96	0.80
2:CB:44:LEU:HD12	2:CB:44:LEU:H	1.47	0.80
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.64	0.80
26:D0:23:VAL:HA	26:D0:38:VAL:HG22	1.63	0.80
31:D5:44:THR:HG21	50:DR:101:ALA:HB2	1.62	0.80
32:D6:16:CYS:O	32:D6:17:LYS:HG2	1.81	0.80
32:D6:52:VAL:HG13	32:D6:53:LYS:H	1.46	0.80
36:DA:768:G:H2'	36:DA:769:G:H8	1.46	0.80
36:DA:884:C:H42	36:DA:893:C:H42	1.26	0.80
36:DA:926:A:H8	36:DA:926:A:H5'	1.46	0.80
36:DA:2590:A:H5''	39:DD:239:ARG:HB2	1.63	0.80
53:DU:37:GLU:HA	53:DU:40:PHE:CD1	2.17	0.80
58:DZ:33:LEU:HD12	58:DZ:34:ASN:H	1.43	0.80
1:AA:580:U:H2'	1:AA:581:G:O4'	1.81	0.80
1:AA:1529:G:H4'	1:AA:1530:G:OP2	1.79	0.80
6:AF:69:GLU:CD	6:AF:69:GLU:H	1.88	0.80
36:BA:1785:A:OP2	36:BA:1982:C:H5'	1.81	0.80
39:BD:28:GLU:H	39:BD:29:PRO:HD2	1.46	0.80
39:BD:30:GLU:HB2	39:BD:35:LYS:HE3	1.64	0.80
39:BD:43:ARG:HD2	39:BD:44:ASN:OD1	1.81	0.80
40:BE:80:GLU:O	40:BE:81:ILE:HG12	1.81	0.80
41:BF:53:THR:HG22	41:BF:56:GLU:HG3	1.62	0.80
42:BG:97:ASP:H	42:BG:100:TRP:HD1	1.30	0.80
48:BP:9:ASN:N	48:BP:10:PRO:HD2	1.96	0.80
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	1.95	0.80
1:CA:1225:A:H2'	1:CA:1226:C:C5	2.17	0.80
1:CA:1372:U:H5''	9:CI:71:SER:HB3	1.64	0.80
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.64	0.80
14:CN:57:ARG:HB3	14:CN:57:ARG:NH1	1.97	0.80
36:DA:271(M):G:C2'	36:DA:271(N):U:H5''	2.09	0.80
36:DA:819:A:H2'	36:DA:820:A:H5'	1.64	0.80
43:DH:103:LEU:HB2	43:DH:123:PHE:HD2	1.47	0.80
49:DQ:22:LYS:H	58:DZ:78:LYS:HE3	1.45	0.80
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.16	0.80
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	1.81	0.80
24:AY:2:C:OP1	25:AZ:90:LYS:HD2	1.81	0.80
24:AY:41:G:C2'	24:AY:42:U:H5''	2.07	0.80
28:B2:2:LYS:HA	28:B2:5:GLU:OE2	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:5:VAL:HG11	36:BA:2283:C:C5'	2.12	0.80
36:BA:227:A:C5'	48:BP:76:LYS:HE3	2.12	0.80
53:BU:88:ILE:C	53:BU:90:VAL:H	1.88	0.80
55:BW:5:ALA:CB	55:BW:54:ALA:HB2	2.12	0.80
1:CA:985:C:H2'	1:CA:986:A:C8	2.17	0.80
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.17	0.80
2:CB:87:ARG:HD2	2:CB:87:ARG:O	1.81	0.80
7:CG:79:ARG:HG3	7:CG:83:ALA:C	2.06	0.80
11:CK:120:ARG:HH12	11:CK:126:ARG:HD2	1.46	0.80
36:DA:374:A:H2'	36:DA:375:C:O4'	1.82	0.80
36:DA:1682:G:H5'	36:DA:1762:A:O2'	1.81	0.80
36:DA:1993:U:H4'	40:DE:128:SER:OG	1.82	0.80
36:DA:2206:G:N2	36:DA:2207:G:H4'	1.97	0.80
36:DA:2402:C:C2'	36:DA:2403:C:H5'	2.12	0.80
36:DA:2672:G:C2'	36:DA:2673:G:H5''	2.11	0.80
39:DD:139:GLY:H	39:DD:165:ILE:HB	1.46	0.80
41:DF:137:LYS:HG2	41:DF:140:LEU:HD23	1.64	0.80
43:DH:92:ILE:C	43:DH:94:TYR:H	1.89	0.80
51:DS:46:VAL:HG12	51:DS:47:THR:H	1.46	0.80
2:AB:21:ARG:CZ	2:AB:39:ILE:HG12	2.11	0.79
28:B2:5:GLU:HB2	28:B2:9:GLN:NE2	1.96	0.79
31:B5:38:ALA:CB	31:B5:48:GLU:HB3	2.12	0.79
36:BA:1498:C:H2'	36:BA:1499:C:H5''	1.63	0.79
40:BE:33:VAL:HG21	40:BE:36:ARG:NH2	1.97	0.79
41:BF:53:THR:HG23	41:BF:55:GLY:H	1.45	0.79
50:BR:96:ARG:NH1	50:BR:117:VAL:HG23	1.98	0.79
1:CA:1440:C:H1'	1:CA:1462:G:H22	1.46	0.79
2:CB:229:VAL:HG12	2:CB:230:VAL:N	1.95	0.79
12:CL:89:ARG:NH1	12:CL:91:LYS:HD3	1.96	0.79
24:CY:11:C:C2'	24:CY:12:U:H5''	2.13	0.79
25:CZ:191:GLY:HA2	25:CZ:196:VAL:HG12	1.62	0.79
25:CZ:234:ARG:HB3	25:CZ:289:LEU:HD13	1.61	0.79
36:DA:271(P):C:C2'	36:DA:271(Q):G:H5'	2.12	0.79
36:DA:307:G:N2	36:DA:309:G:H3'	1.97	0.79
36:DA:1010:A:H1'	36:DA:1153:C:H1'	1.62	0.79
36:DA:1828:G:O6	39:DD:222:ARG:HD3	1.82	0.79
46:DN:21:LYS:C	46:DN:61:ARG:HB2	2.07	0.79
48:DP:146:VAL:HG22	48:DP:147:LEU:N	1.95	0.79
52:DT:53:ARG:NH1	52:DT:53:ARG:HB3	1.96	0.79
36:BA:560:C:H1'	53:BU:49:HIS:CE1	2.18	0.79
36:BA:833:U:H5''	48:BP:48:PRO:CB	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:21:LYS:HD3	46:BN:22:THR:H	1.46	0.79
52:BT:53:ARG:HB3	52:BT:53:ARG:HH11	1.46	0.79
1:CA:56:U:H2'	1:CA:57:G:C8	2.18	0.79
1:CA:1389:C:H2'	1:CA:1390:U:O4'	1.81	0.79
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.17	0.79
36:DA:38:A:H2'	36:DA:39:C:C6	2.18	0.79
36:DA:483:A:H1'	57:DY:60:PHE:CZ	2.16	0.79
36:DA:2303:G:H5''	42:DG:126:ASP:HB2	1.62	0.79
36:DA:2807:G:C3'	36:DA:2808:U:H5''	2.10	0.79
44:DJ:25:UNK:HA	44:DJ:116:UNK:CB	2.11	0.79
56:DX:27:THR:HG22	56:DX:80:ILE:HG22	1.64	0.79
58:DZ:115:GLY:HA2	58:DZ:174:VAL:HG13	1.64	0.79
2:AB:107:THR:HG23	2:AB:110:GLN:HE22	1.45	0.79
3:AC:30:ARG:HG3	14:AN:37:PHE:O	1.83	0.79
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.64	0.79
22:AW:68:C:H2'	22:AW:69:G:C8	2.18	0.79
25:AZ:25:THR:HB	62:AZ:501:GDP:O2B	1.82	0.79
29:B3:35:ARG:HB2	29:B3:35:ARG:HH11	1.46	0.79
32:B6:5:VAL:HB	36:BA:2284:C:OP2	1.82	0.79
36:BA:374:A:H2'	36:BA:375:C:O4'	1.82	0.79
36:BA:769:G:O2'	36:BA:770:G:H5'	1.82	0.79
36:BA:1005:C:H2'	36:BA:1006:C:C6	2.16	0.79
36:BA:2590:A:H5''	39:BD:239:ARG:HB2	1.63	0.79
42:BG:91:ARG:C	42:BG:91:ARG:HD2	2.08	0.79
52:BT:28:VAL:HG22	52:BT:47:GLY:N	1.97	0.79
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.63	0.79
1:CA:1199:U:H4'	10:CJ:54:PHE:CZ	2.17	0.79
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.64	0.79
13:CM:68:GLY:C	13:CM:70:LEU:H	1.90	0.79
28:D2:63:VAL:O	28:D2:66:GLU:HG2	1.82	0.79
36:DA:1374:G:H2'	36:DA:1375:C:C6	2.17	0.79
42:DG:6:ALA:HB3	42:DG:104:GLU:OE2	1.82	0.79
42:DG:52:ILE:HG12	42:DG:53:LEU:H	1.47	0.79
50:DR:63:ARG:HG2	50:DR:80:PHE:HE2	1.45	0.79
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	2.23	0.79
1:AA:737:A:H2'	1:AA:738:C:C6	2.18	0.79
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.46	0.79
24:AY:11:C:C2'	24:AY:12:U:H5''	2.12	0.79
33:B7:8:ASN:HD22	33:B7:8:ASN:C	1.89	0.79
34:B8:15:LYS:CD	48:BP:65:ARG:HH22	1.95	0.79
36:BA:2022:U:O2'	36:BA:2617:C:H5'	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2591:C:H2'	36:BA:2592:G:H8	1.47	0.79
39:BD:79:VAL:HG23	39:BD:115:GLN:O	1.83	0.79
54:BV:69:LYS:HB2	54:BV:88:ARG:HD3	1.64	0.79
56:BX:59:VAL:HG21	56:BX:78:LYS:HD3	1.65	0.79
33:D7:21:ARG:HH11	33:D7:21:ARG:HG2	1.48	0.79
36:DA:482:A:H4'	57:DY:47:LYS:HD3	1.65	0.79
36:DA:1411:C:H2'	36:DA:1412:A:H8	1.47	0.79
36:DA:2379:G:H2'	36:DA:2380:C:C6	2.15	0.79
36:DA:2781:A:C5'	36:DA:2782:G:H5'	2.13	0.79
48:DP:47:ASP:HB3	48:DP:49:ARG:H	1.48	0.79
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.81	0.79
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.47	0.79
9:AI:10:ARG:HG3	9:AI:75:ASP:HB3	1.64	0.79
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	1.64	0.79
24:AY:18:G:H3'	24:AY:18:G:OP1	1.83	0.79
43:BH:103:LEU:HB2	43:BH:123:PHE:HD2	1.46	0.79
52:BT:58:ASN:H	52:BT:58:ASN:HD22	1.31	0.79
24:CY:14:A:H2'	24:CY:15:G:O4'	1.82	0.79
24:CY:18:G:H3'	24:CY:18:G:OP1	1.83	0.79
36:DA:534:U:O2'	53:DU:49:HIS:HD2	1.65	0.79
36:DA:1598:C:H5'	56:DX:36:LYS:CG	2.12	0.79
36:DA:2801(A):A:H4'	36:DA:2802:G:H5'	1.65	0.79
42:DG:63:ILE:HA	42:DG:143:GLU:CD	2.06	0.79
52:DT:62:THR:HG22	52:DT:75:ILE:HG23	1.64	0.79
55:DW:11:ARG:C	55:DW:11:ARG:HE	1.89	0.79
1:AA:838:G:C6	1:AA:840:C:H1'	2.18	0.79
2:AB:87:ARG:HH21	2:AB:233:SER:N	1.81	0.79
10:AJ:16:LEU:HD13	10:AJ:17:ASP:N	1.97	0.79
13:AM:68:GLY:C	13:AM:70:LEU:H	1.90	0.79
22:AW:38:A:H3'	22:AW:39:U:H5''	1.63	0.79
26:B0:27:GLU:HA	26:B0:67:VAL:O	1.82	0.79
36:BA:1141:U:H2'	46:BN:63:THR:CG2	2.13	0.79
36:BA:1411:C:H2'	36:BA:1412:A:H8	1.48	0.79
36:BA:1842:G:H2'	36:BA:1843:C:H6	1.48	0.79
36:BA:2219:G:O2'	36:BA:2220:G:H5'	1.82	0.79
38:BC:119:VAL:O	38:BC:123:VAL:HB	1.81	0.79
46:BN:21:LYS:C	46:BN:61:ARG:HB2	2.08	0.79
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HD3	1.46	0.79
1:CA:737:A:H2'	1:CA:738:C:H6	1.47	0.79
25:CZ:15:GLY:HA2	25:CZ:79:HIS:CD2	2.18	0.79
25:CZ:317:GLU:HG3	25:CZ:404:LEU:HD21	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:48:VAL:HG23	32:D6:49:HIS:H	1.44	0.79
36:DA:634:C:H2'	36:DA:635:C:H6	1.47	0.79
36:DA:2328:A:H2'	36:DA:2329:G:C8	2.16	0.79
39:DD:65:ILE:HD13	39:DD:65:ILE:N	1.95	0.79
1:AA:1249:C:H5''	9:AI:70:LYS:NZ	1.96	0.79
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	1.83	0.79
25:AZ:215:ARG:HB3	25:AZ:282:ALA:HB3	1.63	0.79
36:BA:38:A:H2'	36:BA:39:C:C6	2.18	0.79
36:BA:1773:A:H2'	36:BA:1774:C:O4'	1.82	0.79
36:BA:1916:A:H2'	36:BA:1917:U:O4'	1.82	0.79
39:BD:35:LYS:HD2	39:BD:35:LYS:C	2.06	0.79
1:CA:390:C:H4'	16:CP:28:ARG:HH11	1.48	0.79
1:CA:986:A:H1'	19:CS:54:GLY:O	1.82	0.79
11:CK:59:TYR:O	11:CK:62:GLN:HB3	1.83	0.79
36:DA:977:G:H2'	36:DA:978:G:H8	1.47	0.79
36:DA:2443:C:O2'	36:DA:2444:G:H5'	1.83	0.79
39:DD:181:GLU:HA	39:DD:272:ALA:O	1.83	0.79
40:DE:82:ARG:HG3	40:DE:82:ARG:HH11	1.47	0.79
1:AA:1359:C:OP2	14:AN:22:THR:HG21	1.82	0.79
3:AC:92:ALA:N	3:AC:99:VAL:HG11	1.98	0.79
31:B5:4:HIS:CB	31:B5:5:PRO:HD3	2.09	0.79
36:BA:298:G:N2	36:BA:339:U:H5	1.80	0.79
36:BA:1309:G:H1	36:BA:1605:C:H42	1.28	0.79
49:BQ:19:GLY:HA2	58:BZ:79:ARG:HH22	1.45	0.79
1:CA:267:C:H2'	1:CA:268:C:H6	1.47	0.79
1:CA:1401:G:H8	1:CA:1401:G:O5'	1.66	0.79
10:CJ:16:LEU:CD1	10:CJ:70:ARG:HG3	2.11	0.79
36:DA:491:G:O2'	36:DA:492:A:H5'	1.83	0.79
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.65	0.79
1:AA:344:A:H4'	1:AA:345:C:OP2	1.83	0.79
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.18	0.79
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.18	0.79
2:AB:36:ARG:H	2:AB:41:ILE:HD13	1.45	0.79
31:B5:49:CYS:SG	31:B5:50:GLY:N	2.56	0.79
36:BA:1061:U:H4'	36:BA:1070:A:H4'	1.64	0.79
43:BH:52:VAL:HG21	43:BH:69:ARG:HB2	1.63	0.79
50:BR:2:ARG:O	50:BR:2:ARG:HD2	1.83	0.79
58:BZ:55:HIS:ND1	58:BZ:135:GLU:HG2	1.98	0.79
8:CH:30:ARG:HB3	8:CH:30:ARG:HH11	1.46	0.79
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.83	0.79
25:CZ:137:LYS:HA	62:CZ:501:GDP:HN1	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:572:A:H61	36:DA:2029:G:H21	1.29	0.79
36:DA:1309:G:H1	36:DA:1605:C:H42	1.29	0.79
36:DA:2008:C:H2'	36:DA:2009:G:C8	2.17	0.79
57:DY:39:VAL:HG12	57:DY:40:GLU:H	1.46	0.79
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.08	0.79
26:B0:11:ARG:HH11	26:B0:11:ARG:CB	1.95	0.79
32:B6:52:VAL:HG13	32:B6:53:LYS:H	1.46	0.79
36:BA:1494:A:H2'	36:BA:1495:A:C5'	2.13	0.79
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	1.97	0.79
6:CF:69:GLU:CD	6:CF:69:GLU:H	1.91	0.79
29:D3:7:LYS:O	29:D3:54:VAL:HA	1.83	0.79
29:D3:18:ASP:HB2	36:DA:850:C:H4'	1.65	0.79
36:DA:55:G:HO2'	36:DA:127:A:H2	1.31	0.79
40:DE:33:VAL:HG21	40:DE:36:ARG:NH2	1.98	0.79
40:DE:78:LEU:HD12	40:DE:78:LEU:O	1.83	0.79
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.97	0.79
57:DY:86:ARG:HB3	57:DY:88:LYS:NZ	1.97	0.79
1:AA:811:C:H4'	1:AA:900:A:N6	1.98	0.78
1:AA:1221:G:OP1	19:AS:36:ARG:HD3	1.83	0.78
26:B0:7:LEU:HD13	49:BQ:85:LYS:HG3	1.65	0.78
31:B5:7:PRO:HA	36:BA:2615:U:C2	2.18	0.78
32:B6:20:ASN:ND2	32:B6:41:PRO:HB3	1.98	0.78
36:BA:655:A:H4'	36:BA:656:G:C5'	2.06	0.78
36:BA:2175:C:H5'	38:BC:219:GLY:O	1.83	0.78
51:BS:35:ILE:HD11	51:BS:99:LYS:HE3	1.65	0.78
58:BZ:27:VAL:HG23	58:BZ:36:LYS:HA	1.66	0.78
31:D5:36:CYS:SG	31:D5:48:GLU:O	2.41	0.78
36:DA:537:C:N4	36:DA:556:G:H1	1.80	0.78
36:DA:968:G:O2'	36:DA:969:U:H5'	1.82	0.78
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.19	0.78
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.48	0.78
16:AP:43:LYS:HG2	16:AP:48:TRP:CZ3	2.18	0.78
32:B6:39:TYR:O	32:B6:41:PRO:HD3	1.82	0.78
36:BA:537:C:H42	36:BA:556:G:H1	1.30	0.78
36:BA:1230:C:O2'	36:BA:1231:G:H5'	1.83	0.78
36:BA:1901:A:O2'	36:BA:1902:C:H5'	1.82	0.78
38:BC:100:ILE:HG23	38:BC:127:LEU:HG	1.63	0.78
39:BD:66:ASP:OD2	39:BD:69:ARG:HG3	1.82	0.78
42:BG:5:VAL:H	42:BG:8:LYS:CB	1.96	0.78
12:CL:25:PRO:C	12:CL:27:LEU:H	1.88	0.78
35:D9:10:ILE:H	35:D9:10:ILE:CD1	1.95	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1061:U:H4'	36:DA:1070:A:H4'	1.66	0.78
36:DA:1514:U:H2'	36:DA:1515:G:H8	1.48	0.78
37:DB:20:C:C2'	37:DB:21:G:H5''	2.12	0.78
39:DD:147:LEU:HD21	39:DD:183:ARG:NH2	1.99	0.78
39:DD:147:LEU:HD21	39:DD:183:ARG:HH22	1.49	0.78
40:DE:195:LEU:HD12	40:DE:196:VAL:H	1.46	0.78
41:DF:32:LEU:O	41:DF:32:LEU:HD23	1.83	0.78
52:DT:58:ASN:H	52:DT:58:ASN:HD22	1.29	0.78
1:AA:744:C:H2'	1:AA:745:C:C6	2.17	0.78
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.98	0.78
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.83	0.78
27:B1:67:ILE:N	27:B1:68:PRO:HD2	1.99	0.78
32:B6:11:LEU:HD13	32:B6:12:GLU:N	1.98	0.78
36:BA:151:C:H2'	36:BA:152:G:C8	2.17	0.78
36:BA:269:U:H2'	36:BA:269:U:O2	1.83	0.78
36:BA:483:A:H4'	57:BY:49:VAL:HG22	1.65	0.78
36:BA:2466:C:O2'	36:BA:2467:C:H5'	1.83	0.78
36:BA:2781:A:C5'	36:BA:2782:G:H5'	2.14	0.78
52:BT:68:TYR:O	52:BT:70:VAL:N	2.15	0.78
55:BW:78:GLU:OE2	55:BW:99:ARG:HD2	1.83	0.78
3:CC:92:ALA:N	3:CC:99:VAL:HG11	1.97	0.78
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.66	0.78
13:CM:15:VAL:HG22	13:CM:41:PRO:O	1.83	0.78
22:CW:17:C:N4	36:DA:2110:G:H21	1.81	0.78
31:D5:38:ALA:CB	31:D5:48:GLU:HB3	2.13	0.78
36:DA:560:C:H1'	53:DU:49:HIS:HE1	1.48	0.78
36:DA:611:C:H2'	36:DA:612:C:H6	1.47	0.78
36:DA:1141:U:H2'	46:DN:63:THR:CG2	2.14	0.78
1:AA:376:G:H2'	1:AA:377:G:C8	2.18	0.78
2:AB:22:LYS:HA	2:AB:22:LYS:HE2	1.64	0.78
11:AK:43:SER:HB3	11:AK:68:ALA:HB2	1.66	0.78
11:AK:66:LEU:O	11:AK:69:ALA:HB3	1.84	0.78
19:AS:16:LEU:CA	19:AS:19:VAL:HB	2.08	0.78
24:AY:6:U:C2'	24:AY:7:A:H5''	2.13	0.78
36:BA:55:G:HO2'	36:BA:127:A:H2	1.32	0.78
36:BA:83:G:HO2'	36:BA:84:A:H8	1.27	0.78
36:BA:659:C:H2'	36:BA:660:G:C8	2.19	0.78
36:BA:852:G:O2'	36:BA:853:G:H5'	1.83	0.78
36:BA:1297:C:H2'	36:BA:1298:C:H6	1.49	0.78
50:BR:63:ARG:HG2	50:BR:80:PHE:HE2	1.47	0.78
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:13:GLY:H	14:CN:57:ARG:HD2	1.47	0.78
4:CD:100:ARG:HH21	4:CD:118:ARG:NH1	1.78	0.78
5:CE:92:LYS:O	5:CE:118:ILE:HD12	1.84	0.78
36:DA:90:U:H1'	36:DA:92:A:N7	1.98	0.78
36:DA:2735:G:H2'	36:DA:2736:G:H8	1.49	0.78
37:DB:42:C:HO2'	37:DB:43:C:H6	1.31	0.78
39:DD:35:LYS:CG	39:DD:63:ARG:HG2	2.13	0.78
48:DP:85:LEU:HD23	48:DP:115:LEU:O	1.84	0.78
27:B1:63:ALA:HB3	27:B1:66:HIS:HB2	1.66	0.78
36:BA:611:C:H2'	36:BA:612:C:H6	1.47	0.78
36:BA:1353:A:H4'	39:BD:38:LYS:HE3	1.64	0.78
36:BA:2735:G:H2'	36:BA:2736:G:H8	1.49	0.78
49:BQ:42:ILE:O	49:BQ:94:VAL:HA	1.84	0.78
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.66	0.78
58:BZ:59:LEU:O	58:BZ:66:SER:HA	1.84	0.78
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.82	0.78
4:CD:31:CYS:C	4:CD:33:MET:H	1.89	0.78
11:CK:57:THR:OG1	11:CK:58:PRO:HD2	1.84	0.78
25:CZ:80:VAL:HG21	25:CZ:98:GLN:OE1	1.84	0.78
27:D1:5:CYS:SG	27:D1:63:ALA:HB2	2.23	0.78
28:D2:13:ALA:HA	28:D2:16:LEU:HD12	1.66	0.78
1:AA:267:C:H2'	1:AA:268:C:H6	1.49	0.78
1:AA:1142:G:H2'	1:AA:1143:G:H5'	1.66	0.78
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.83	0.78
15:AO:10:LYS:HE3	15:AO:10:LYS:C	2.09	0.78
25:AZ:252:GLU:CD	25:AZ:264:ARG:HD2	2.07	0.78
26:B0:23:VAL:HA	26:B0:38:VAL:HG22	1.65	0.78
27:B1:7:ILE:HG21	27:B1:66:HIS:HB3	1.65	0.78
41:BF:3:GLU:O	41:BF:19:GLU:HB2	1.83	0.78
52:BT:83:ILE:HG13	52:BT:84:GLN:N	1.98	0.78
54:BV:38:LEU:C	54:BV:39:LEU:HD13	2.09	0.78
58:BZ:153:SER:CB	58:BZ:167:PRO:HB3	2.14	0.78
7:CG:69:VAL:C	7:CG:138:LYS:HD2	2.08	0.78
28:D2:41:ILE:HG13	28:D2:43:GLN:H	1.49	0.78
32:D6:20:ASN:ND2	32:D6:41:PRO:HB3	1.98	0.78
36:DA:2208:A:H1'	36:DA:2219:G:C5	2.18	0.78
36:DA:2466:C:O2'	36:DA:2467:C:H5'	1.83	0.78
38:DC:100:ILE:HG21	38:DC:126:LYS:CB	2.13	0.78
41:DF:64:ILE:HG23	41:DF:65:TRP:N	1.95	0.78
48:DP:62:LEU:HD23	48:DP:62:LEU:H	1.47	0.78
13:AM:54:VAL:HG11	30:B4:17:GLY:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.49	0.78
36:BA:90:U:H1'	36:BA:92:A:N7	1.98	0.78
36:BA:2208:A:H1'	36:BA:2219:G:C5	2.19	0.78
36:BA:2712:U:H1'	36:BA:2712(A):A:N7	1.99	0.78
43:BH:118:PRO:HG2	43:BH:121:ILE:HB	1.65	0.78
49:BQ:43:THR:HB	49:BQ:45:GLN:NE2	1.97	0.78
55:BW:11:ARG:C	55:BW:11:ARG:HE	1.91	0.78
25:CZ:355:LEU:CB	25:CZ:359:VAL:HG23	2.10	0.78
36:DA:1230:C:O2'	36:DA:1231:G:H5'	1.84	0.78
38:DC:114:VAL:CB	38:DC:149:ILE:HD11	2.08	0.78
54:DV:20:LEU:HD12	54:DV:20:LEU:H	1.48	0.78
54:DV:38:LEU:C	54:DV:39:LEU:HD13	2.09	0.78
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	1.99	0.78
31:B5:31:VAL:HG11	36:BA:2886:G:H21	1.48	0.78
31:B5:44:THR:HG22	31:B5:45:VAL:H	1.47	0.78
36:BA:650:C:H3'	36:BA:651:G:H5''	1.65	0.78
36:BA:1612:C:H42	36:BA:1619:G:H1	1.29	0.78
36:BA:2402:C:C2'	36:BA:2403:C:H5'	2.14	0.78
36:BA:2506:U:H5'	36:BA:2506:U:H6	1.45	0.78
49:BQ:20:ALA:H	58:BZ:79:ARG:CZ	1.97	0.78
10:CJ:22:LYS:O	10:CJ:22:LYS:HD2	1.84	0.78
12:CL:110:VAL:O	12:CL:122:THR:HB	1.84	0.78
36:DA:2219:G:O2'	36:DA:2220:G:H5'	1.83	0.78
39:DD:30:GLU:HG3	39:DD:63:ARG:CZ	2.14	0.78
42:DG:15:VAL:HG12	42:DG:19:LEU:HG	1.63	0.78
48:DP:9:ASN:N	48:DP:10:PRO:HD2	1.96	0.78
1:AA:436:C:H2'	1:AA:437:U:C6	2.19	0.78
1:AA:795:C:H1'	1:AA:1506:U:C6	2.18	0.78
11:AK:120:ARG:HH12	11:AK:126:ARG:HD2	1.49	0.78
13:AM:6:GLY:C	13:AM:8:GLU:H	1.91	0.78
37:BB:115:G:H2'	37:BB:116:G:H8	1.49	0.78
39:BD:147:LEU:HD21	39:BD:183:ARG:HH22	1.48	0.78
43:BH:92:ILE:C	43:BH:94:TYR:H	1.90	0.78
47:BO:114:ILE:HD12	47:BO:114:ILE:N	1.99	0.78
54:BV:20:LEU:HD12	54:BV:20:LEU:H	1.47	0.78
1:CA:178:C:H2'	1:CA:179:A:H8	1.47	0.78
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.66	0.78
22:CW:38:A:H3'	22:CW:39:U:H5''	1.66	0.78
39:DD:183:ARG:HD2	39:DD:270:ILE:HG22	1.64	0.78
1:AA:684:A:H1'	11:AK:39:PRO:HD2	1.66	0.78
1:AA:742:G:H5''	15:AO:58:MET:HE1	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:130:ARG:HE	2:AB:130:ARG:HA	1.49	0.78
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.14	0.78
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.66	0.78
25:AZ:264:ARG:HG2	25:AZ:264:ARG:NH1	1.87	0.78
25:AZ:316:PHE:CE1	25:AZ:372:VAL:HB	2.18	0.78
26:B0:20:ARG:HD2	26:B0:20:ARG:H	1.49	0.78
29:B3:28:LEU:HD23	29:B3:28:LEU:N	1.99	0.78
35:B9:30:PRO:HB2	36:BA:2527:C:H4'	1.64	0.78
36:BA:1290:C:H2'	36:BA:1291:C:H6	1.48	0.78
40:BE:87:GLU:O	40:BE:89:ASP:N	2.17	0.78
51:BS:15:ARG:NH1	51:BS:15:ARG:HB2	1.99	0.78
52:BT:129:ARG:CZ	52:BT:131:ALA:HB3	2.14	0.78
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.65	0.78
8:CH:34:GLU:O	8:CH:38:ILE:HG13	1.83	0.78
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	1.64	0.78
22:CW:33:U:H2'	22:CW:35:A:OP2	1.84	0.78
25:CZ:72:THR:HG22	25:CZ:203:LEU:CD2	2.13	0.78
27:D1:62:VAL:HG11	27:D1:67:ILE:HG12	1.64	0.78
28:D2:2:LYS:HA	28:D2:5:GLU:OE2	1.83	0.78
28:D2:38:GLN:O	28:D2:41:ILE:HG12	1.82	0.78
53:DU:52:ARG:CZ	53:DU:55:ARG:HH22	1.97	0.78
1:AA:41:G:H2'	1:AA:42:G:C8	2.19	0.77
1:AA:254:G:H21	17:AQ:16:GLN:NE2	1.81	0.77
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.67	0.77
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.48	0.77
1:AA:1510:U:H3	1:AA:1525:G:H1	1.32	0.77
9:AI:10:ARG:HB2	9:AI:76:ALA:HB2	1.64	0.77
10:AJ:43:ARG:HB2	10:AJ:67:THR:HG22	1.63	0.77
25:AZ:191:GLY:HA2	25:AZ:196:VAL:HG12	1.65	0.77
36:BA:634:C:H2'	36:BA:635:C:C6	2.18	0.77
36:BA:886:C:O2'	36:BA:887:A:H4'	1.84	0.77
39:BD:147:LEU:HD21	39:BD:183:ARG:NH2	1.99	0.77
48:BP:12:ALA:HB1	48:BP:16:ARG:HB3	1.66	0.77
55:BW:50:VAL:O	55:BW:105:VAL:HG21	1.83	0.77
1:CA:55:A:H2'	25:CZ:232:THR:HG21	1.64	0.77
1:CA:150:C:C2'	1:CA:151:A:H5''	2.13	0.77
1:CA:1523:G:H2'	1:CA:1524:C:C6	2.19	0.77
8:CH:5:PRO:O	8:CH:8:ASP:HB3	1.83	0.77
9:CI:77:ILE:O	9:CI:81:ILE:HG12	1.83	0.77
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	1.83	0.77
30:D4:9:LEU:HG	42:DG:98:ARG:NH1	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1668:A:H4'	36:DA:1669:A:O5'	1.84	0.77
36:DA:2338:G:H2'	36:DA:2339:G:H8	1.48	0.77
38:DC:99:ILE:HG23	38:DC:102:LYS:NZ	1.99	0.77
42:DG:12:TYR:HA	42:DG:16:ARG:HG2	1.64	0.77
47:DO:25:LEU:O	47:DO:26:LYS:HG3	1.84	0.77
48:DP:97:PRO:C	48:DP:99:LEU:H	1.92	0.77
1:AA:715:A:H2'	1:AA:716:A:C8	2.19	0.77
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.66	0.77
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	1.83	0.77
3:AC:153:VAL:O	3:AC:154:SER:HB3	1.83	0.77
4:AD:31:CYS:C	4:AD:33:MET:H	1.92	0.77
25:AZ:15:GLY:HA2	25:AZ:79:HIS:CD2	2.20	0.77
25:AZ:389:ARG:HA	25:AZ:395:VAL:HG13	1.66	0.77
28:B2:43:GLN:O	28:B2:44:LEU:HB2	1.83	0.77
34:B8:50:LEU:C	34:B8:53:PRO:HD2	2.08	0.77
36:BA:1242:A:H5'	36:BA:1243:G:OP2	1.84	0.77
36:BA:2306:C:H4'	42:BG:136:ARG:HH22	1.48	0.77
36:BA:2833:G:H3'	36:BA:2834:G:H5'	1.66	0.77
47:BO:25:LEU:O	47:BO:26:LYS:HG3	1.85	0.77
31:D5:36:CYS:SG	31:D5:38:ALA:HB3	2.24	0.77
36:DA:782:A:C2	39:DD:226:MET:HG2	2.19	0.77
36:DA:886:C:O2'	36:DA:887:A:H4'	1.84	0.77
36:DA:2007:C:O2'	36:DA:2008:C:H5'	1.85	0.77
49:DQ:140:ALA:HB1	58:DZ:99:TYR:CB	2.13	0.77
50:DR:2:ARG:O	50:DR:2:ARG:HD2	1.83	0.77
53:DU:37:GLU:HA	53:DU:40:PHE:CE1	2.18	0.77
1:AA:59:A:H1'	1:AA:354:G:N2	2.00	0.77
4:AD:62:GLN:O	4:AD:66:ARG:HB2	1.84	0.77
16:AP:49:LEU:HD12	16:AP:50:LYS:N	2.00	0.77
19:AS:51:VAL:HG12	19:AS:52:TYR:H	1.49	0.77
36:BA:271:A:C2	36:BA:366:C:H1'	2.20	0.77
36:BA:271(P):C:C2'	36:BA:271(Q):G:H5'	2.13	0.77
36:BA:536:A:H2'	36:BA:537:C:C6	2.19	0.77
36:BA:1993:U:H4'	40:BE:128:SER:OG	1.83	0.77
36:BA:2514:U:H2'	36:BA:2515:C:C6	2.19	0.77
39:BD:83:GLU:HB2	39:BD:92:ILE:HD11	1.67	0.77
53:BU:37:GLU:HA	53:BU:40:PHE:CD1	2.18	0.77
8:CH:9:MET:HG3	8:CH:26:VAL:HG21	1.66	0.77
27:D1:40:ARG:NH2	27:D1:42:GLN:HE21	1.82	0.77
33:D7:8:ASN:HD22	33:D7:9:ARG:N	1.80	0.77
36:DA:560:C:H1'	53:DU:49:HIS:CE1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1518:U:H2'	36:DA:1519:G:O4'	1.84	0.77
36:DA:2572:A:N7	40:DE:145:LYS:HB2	1.98	0.77
38:DC:98:GLU:C	38:DC:100:ILE:H	1.92	0.77
38:DC:131:LEU:HB3	38:DC:136:LEU:HB2	1.65	0.77
1:AA:673:G:H5''	6:AF:87:ARG:NH1	1.99	0.77
8:AH:30:ARG:HB3	8:AH:30:ARG:HH11	1.43	0.77
9:AI:43:ALA:C	9:AI:45:ALA:H	1.90	0.77
25:AZ:80:VAL:HG21	25:AZ:98:GLN:OE1	1.83	0.77
25:AZ:256:VAL:HG13	25:AZ:262:THR:HG22	1.65	0.77
31:B5:42:PRO:HB2	36:BA:2815:C:O2'	1.84	0.77
36:BA:1231:G:H2'	36:BA:1232:G:C8	2.20	0.77
36:BA:2029:G:H5''	36:BA:2030:A:OP2	1.84	0.77
48:BP:97:PRO:C	48:BP:99:LEU:H	1.93	0.77
1:CA:1041:A:H2'	1:CA:1042:G:C8	2.18	0.77
1:CA:1346:A:N6	1:CA:1374:A:H3'	1.99	0.77
3:CC:43:LEU:O	3:CC:47:LEU:HB2	1.84	0.77
11:CK:43:SER:HB3	11:CK:68:ALA:HB2	1.67	0.77
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.07	0.77
24:CY:75:C:H6	25:CZ:231:ILE:HG23	1.49	0.77
36:DA:806:C:O2'	36:DA:2445:G:H4'	1.84	0.77
36:DA:1658:C:H2'	36:DA:1659:U:C6	2.20	0.77
36:DA:2441:C:H2'	36:DA:2442:C:H6	1.47	0.77
37:DB:77:U:H4'	58:DZ:84:GLU:OE2	1.84	0.77
42:DG:5:VAL:H	42:DG:8:LYS:CB	1.98	0.77
48:DP:77:ARG:HD3	48:DP:78:PRO:HD2	1.65	0.77
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.47	0.77
56:DX:36:LYS:HA	56:DX:39:ILE:CB	2.14	0.77
1:AA:986:A:H1'	19:AS:54:GLY:O	1.84	0.77
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.83	0.77
18:AR:58:LEU:HD22	18:AR:62:GLU:HB3	1.64	0.77
24:AY:40:G:H2'	24:AY:41:G:C5'	2.14	0.77
25:AZ:107:SER:OG	25:AZ:137:LYS:HD2	1.83	0.77
31:B5:16:ARG:NH1	31:B5:20:ARG:HH11	1.82	0.77
36:BA:676:A:H8	36:BA:2443:C:H1'	1.47	0.77
36:BA:2127:G:H4'	38:BC:37:PHE:CD1	2.20	0.77
37:BB:44:G:H4'	37:BB:45:A:C8	2.19	0.77
41:BF:43:LYS:HB3	41:BF:98:SER:CB	2.13	0.77
2:CB:22:LYS:HA	2:CB:22:LYS:HE2	1.65	0.77
12:CL:83:VAL:HG11	12:CL:100:ILE:HG12	1.65	0.77
36:DA:852:G:O2'	36:DA:853:G:H5'	1.83	0.77
36:DA:1165:U:H2'	36:DA:1166:C:H6	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1612:C:N4	36:DA:1619:G:H1	1.83	0.77
36:DA:2415:G:H4'	48:DP:66:GLY:C	2.10	0.77
42:DG:177:GLY:O	42:DG:179:PRO:HD3	1.85	0.77
1:AA:178:C:H2'	1:AA:179:A:H8	1.49	0.77
1:AA:953:G:H2'	1:AA:954:G:O4'	1.85	0.77
1:AA:1452:C:H5'	1:AA:1456:G:C2	2.20	0.77
1:AA:1485:U:H2'	1:AA:1485:U:O2	1.82	0.77
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.48	0.77
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.49	0.77
17:AQ:34:LYS:HG2	17:AQ:35:VAL:H	1.50	0.77
36:BA:216:A:H2'	36:BA:217:G:O4'	1.84	0.77
36:BA:977:G:H2'	36:BA:978:G:H8	1.48	0.77
36:BA:1599:C:H2'	36:BA:1600:C:C6	2.20	0.77
36:BA:2572:A:N7	40:BE:145:LYS:HB2	1.99	0.77
56:BX:27:THR:HG22	56:BX:80:ILE:HG22	1.67	0.77
1:CA:580:U:H2'	1:CA:581:G:O4'	1.83	0.77
1:CA:972:C:H4'	10:CJ:57:LYS:HG3	1.65	0.77
1:CA:1142:G:H2'	1:CA:1143:G:H5'	1.64	0.77
2:CB:130:ARG:HE	2:CB:130:ARG:HA	1.50	0.77
5:CE:110:LEU:HD13	5:CE:118:ILE:HG21	1.66	0.77
25:CZ:316:PHE:CE1	25:CZ:372:VAL:HB	2.20	0.77
32:D6:48:VAL:HG23	32:D6:49:HIS:N	2.00	0.77
34:D8:61:LEU:CD1	34:D8:62:LEU:H	1.97	0.77
36:DA:634:C:H2'	36:DA:635:C:C6	2.20	0.77
36:DA:1484:G:C3'	36:DA:1485:G:H5''	2.14	0.77
36:DA:2887:U:H2'	36:DA:2888:C:C6	2.19	0.77
38:DC:4:GLY:O	38:DC:8:ARG:HG3	1.84	0.77
38:DC:94:VAL:HG12	38:DC:95:GLY:N	1.95	0.77
52:DT:109:GLU:O	52:DT:112:ARG:HG2	1.85	0.77
53:DU:24:TYR:HB2	53:DU:29:SER:HB3	1.66	0.77
56:DX:65:ARG:HG2	56:DX:66:LEU:N	2.00	0.77
58:DZ:70:LEU:CD2	58:DZ:91:LEU:HD21	2.15	0.77
3:AC:13:GLY:H	14:AN:57:ARG:HD2	1.48	0.77
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.84	0.77
36:BA:711:G:H1	36:BA:720:C:H42	1.32	0.77
36:BA:904:C:H2'	36:BA:905:U:C6	2.20	0.77
52:BT:107:ASP:CG	52:BT:109:GLU:H	1.93	0.77
56:BX:44:GLU:OE2	56:BX:50:LYS:HG3	1.85	0.77
58:BZ:141:VAL:HA	58:BZ:144:LEU:HD23	1.67	0.77
2:CB:36:ARG:H	2:CB:41:ILE:HD13	1.50	0.77
32:D6:5:VAL:HG11	36:DA:2283:C:C5'	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:483:A:H4'	57:DY:49:VAL:HG22	1.67	0.77
36:DA:594:U:H2'	36:DA:595:C:C6	2.19	0.77
36:DA:1991:U:H2'	36:DA:1992:G:H5''	1.66	0.77
36:DA:2402:C:H2'	36:DA:2403:C:H5'	1.65	0.77
36:DA:2454:G:H2'	36:DA:2455:G:C8	2.19	0.77
39:DD:166:GLN:HE21	39:DD:166:GLN:CA	1.97	0.77
40:DE:52:LEU:HB2	40:DE:76:ARG:HB2	1.66	0.77
54:DV:5:VAL:HG23	54:DV:37:VAL:O	1.85	0.77
55:DW:5:ALA:CB	55:DW:54:ALA:HB2	2.14	0.77
58:DZ:127:LYS:HZ3	58:DZ:164:ALA:HB2	1.48	0.77
36:BA:709:U:H2'	36:BA:710:G:C8	2.20	0.77
36:BA:1064:C:H3'	36:BA:1065:U:H5''	1.66	0.77
36:BA:2009:G:H4'	55:BW:40:ASN:HD22	1.50	0.77
36:BA:2774:C:H2'	36:BA:2775:A:O4'	1.84	0.77
37:BB:82:G:H2'	37:BB:83:G:H8	1.50	0.77
41:BF:82:ILE:O	41:BF:83:PHE:CB	2.30	0.77
42:BG:117:PHE:HZ	42:BG:179:PRO:HB2	1.49	0.77
31:D5:4:HIS:CB	31:D5:5:PRO:HD3	2.11	0.77
36:DA:1665:A:C3'	36:DA:1666:G:H5''	2.15	0.77
42:DG:122:PRO:HG2	42:DG:123:ASN:ND2	1.99	0.77
58:DZ:5:LEU:O	58:DZ:59:LEU:HA	1.84	0.77
1:AA:84:U:C2'	1:AA:88:A:H5'	2.15	0.77
36:BA:2631:G:N2	40:BE:61:ARG:NH1	2.33	0.77
37:BB:106:G:C5'	58:BZ:31:ARG:HB3	2.13	0.77
39:BD:63:ARG:HH11	39:BD:63:ARG:CG	1.98	0.77
42:BG:39:ILE:HG22	42:BG:157:ILE:HG23	1.67	0.77
46:BN:111:PRO:HG3	46:BN:114:ARG:HH22	1.50	0.77
49:BQ:70:PRO:HA	49:BQ:94:VAL:O	1.85	0.77
51:BS:56:LEU:HD22	51:BS:58:LEU:HD22	1.66	0.77
56:BX:8:ILE:HG22	56:BX:8:ILE:O	1.84	0.77
56:BX:36:LYS:HA	56:BX:39:ILE:CB	2.14	0.77
19:CS:9:VAL:O	19:CS:11:VAL:HG12	1.85	0.77
25:CZ:171:ILE:HG13	25:CZ:201:GLU:HB3	1.67	0.77
29:D3:28:LEU:N	29:D3:28:LEU:HD23	1.98	0.77
32:D6:15:GLU:HA	32:D6:49:HIS:CE1	2.20	0.77
36:DA:2144:U:H2'	36:DA:2146:C:H5	1.50	0.77
41:DF:43:LYS:HB3	41:DF:98:SER:CB	2.15	0.77
41:DF:101:LEU:HD12	41:DF:102:PRO:HD2	1.65	0.77
48:DP:96:THR:O	48:DP:99:LEU:HB3	1.83	0.77
51:DS:15:ARG:NH1	51:DS:15:ARG:HB2	1.99	0.77
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:77:ILE:O	9:AI:81:ILE:HG12	1.84	0.77
36:BA:307:G:N2	36:BA:309:G:H3'	2.00	0.77
38:BC:99:ILE:HD12	38:BC:102:LYS:NZ	2.00	0.77
42:BG:27:ASN:HD22	42:BG:29:TRP:HB2	1.50	0.77
50:BR:13:HIS:O	50:BR:17:ARG:HB2	1.85	0.77
57:BY:86:ARG:HG2	57:BY:87:LYS:N	2.00	0.77
1:CA:838:G:C6	1:CA:840:C:H1'	2.19	0.77
1:CA:1305:G:H22	1:CA:1331:G:H2'	1.48	0.77
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.14	0.77
36:DA:659:C:H2'	36:DA:660:G:C8	2.19	0.77
36:DA:1064:C:H3'	36:DA:1065:U:H5''	1.67	0.77
36:DA:1092:C:N4	36:DA:1100:C:H42	1.83	0.77
36:DA:1599:C:H2'	36:DA:1600:C:C6	2.18	0.77
36:DA:1775:U:H2'	36:DA:1776:G:C5'	2.15	0.77
36:DA:2306:C:H4'	42:DG:136:ARG:NH1	2.00	0.77
36:DA:2631:G:N2	40:DE:61:ARG:NH1	2.33	0.77
36:DA:2774:C:H2'	36:DA:2775:A:O4'	1.84	0.77
38:DC:100:ILE:HG23	38:DC:127:LEU:HG	1.64	0.77
55:DW:20:VAL:HG23	55:DW:47:VAL:HG21	1.67	0.77
56:DX:59:VAL:HG21	56:DX:78:LYS:HD3	1.67	0.77
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	1.99	0.76
11:AK:82:VAL:HG12	11:AK:108:ILE:HA	1.67	0.76
28:B2:35:LEU:O	28:B2:35:LEU:HD22	1.85	0.76
34:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.67	0.76
36:BA:122:G:H1	36:BA:129:C:H42	1.29	0.76
36:BA:1114:G:H2'	36:BA:1115:G:C8	2.20	0.76
36:BA:2243:U:H2'	36:BA:2244:U:C6	2.20	0.76
41:BF:72:ARG:HA	41:BF:72:ARG:NH1	1.97	0.76
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.65	0.76
53:BU:37:GLU:HA	53:BU:40:PHE:CE1	2.20	0.76
1:CA:254:G:H21	17:CQ:16:GLN:NE2	1.83	0.76
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.20	0.76
10:CJ:89:ASP:O	10:CJ:90:LEU:HB2	1.84	0.76
25:CZ:146:LEU:N	25:CZ:149:LEU:HB3	2.01	0.76
32:D6:5:VAL:HB	36:DA:2284:C:OP2	1.85	0.76
36:DA:83:G:HO2'	36:DA:84:A:H8	1.30	0.76
36:DA:672:C:C2'	36:DA:673:C:H5''	2.15	0.76
36:DA:1498:C:H2'	36:DA:1499:C:H5''	1.64	0.76
37:DB:115:G:H2'	37:DB:116:G:H8	1.50	0.76
39:DD:35:LYS:NZ	39:DD:36:PRO:HD3	1.99	0.76
43:DH:52:VAL:HG11	43:DH:66:GLY:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:148:ILE:O	43:DH:162:ILE:HD13	1.84	0.76
46:DN:89:LYS:O	46:DN:93:THR:HG22	1.83	0.76
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	1.85	0.76
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.15	0.76
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.67	0.76
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.67	0.76
20:AT:36:LEU:HD11	20:AT:59:ALA:HB2	1.65	0.76
22:AW:33:U:H2'	22:AW:35:A:OP2	1.85	0.76
25:AZ:271:GLU:HG2	25:AZ:276:THR:HA	1.66	0.76
28:B2:32:LEU:HA	28:B2:53:LEU:HD13	1.67	0.76
35:B9:1:MET:SD	36:BA:2477:C:H2'	2.25	0.76
36:BA:203:C:H3'	36:BA:204:A:H5''	1.67	0.76
38:BC:131:LEU:HB3	38:BC:136:LEU:HB2	1.68	0.76
40:BE:38:THR:HG22	40:BE:40:GLU:H	1.50	0.76
40:BE:117:MET:SD	40:BE:136:ARG:HG2	2.25	0.76
56:BX:39:ILE:HG21	56:BX:54:VAL:HG11	1.67	0.76
1:CA:41:G:H2'	1:CA:42:G:C8	2.20	0.76
1:CA:1124:G:N2	1:CA:1126:U:H3	1.82	0.76
1:CA:1494:G:H2'	1:CA:1495:U:H6	1.51	0.76
9:CI:10:ARG:HG3	9:CI:75:ASP:HB3	1.67	0.76
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.50	0.76
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.68	0.76
19:CS:44:MET:N	19:CS:44:MET:SD	2.58	0.76
33:D7:18:PHE:HZ	36:DA:117:G:H4'	1.49	0.76
36:DA:1114:G:H2'	36:DA:1115:G:C8	2.21	0.76
10:AJ:22:LYS:HD2	10:AJ:22:LYS:O	1.84	0.76
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.09	0.76
25:AZ:367:ASN:N	25:AZ:367:ASN:HD22	1.81	0.76
26:B0:77:ARG:HH22	36:BA:857:C:H5'	1.49	0.76
36:BA:1754:C:H5''	52:BT:113:LYS:HZ3	1.49	0.76
36:BA:1899:G:N2	36:BA:1902:C:H41	1.83	0.76
36:BA:2136:C:H42	36:BA:2155:G:H1	1.33	0.76
39:BD:70:TRP:CH2	39:BD:150:LYS:HA	2.20	0.76
40:BE:30:PRO:HD3	40:BE:180:ASN:ND2	2.01	0.76
41:BF:32:LEU:O	41:BF:32:LEU:HD23	1.85	0.76
42:BG:66:GLN:HG2	42:BG:67:LYS:H	1.50	0.76
42:BG:161:THR:C	42:BG:163:ALA:H	1.94	0.76
57:BY:37:VAL:HG23	57:BY:38:ILE:N	1.99	0.76
58:BZ:128:VAL:HG22	58:BZ:129:SER:H	1.49	0.76
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.65	0.76
2:CB:179:LYS:HA	8:CH:72:PRO:HD3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:120:ILE:O	7:CG:124:LEU:HB2	1.85	0.76
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	1.85	0.76
11:CK:66:LEU:O	11:CK:69:ALA:HB3	1.85	0.76
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.51	0.76
36:DA:537:C:H42	36:DA:556:G:H1	1.32	0.76
36:DA:1327:C:N4	36:DA:1647:G:H21	1.82	0.76
36:DA:1498:C:C3'	36:DA:1499:C:H5''	2.16	0.76
36:DA:1820:U:O2'	39:DD:159:ALA:HB3	1.86	0.76
36:DA:2306:C:H4'	42:DG:136:ARG:CZ	2.14	0.76
41:DF:72:ARG:HA	41:DF:72:ARG:NH1	1.99	0.76
42:DG:36:LYS:HA	42:DG:99:MET:SD	2.25	0.76
48:DP:86:LYS:HZ3	48:DP:86:LYS:HB3	1.51	0.76
52:DT:28:VAL:HG22	52:DT:47:GLY:N	1.98	0.76
56:DX:39:ILE:HG21	56:DX:54:VAL:HG11	1.67	0.76
1:AA:741:G:H2'	1:AA:742:G:H8	1.51	0.76
8:AH:34:GLU:O	8:AH:38:ILE:HG13	1.86	0.76
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.67	0.76
14:AN:13:THR:N	14:AN:14:PRO:CD	2.48	0.76
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.67	0.76
29:B3:18:ASP:HB2	36:BA:850:C:H4'	1.66	0.76
33:B7:8:ASN:HD22	33:B7:9:ARG:N	1.82	0.76
36:BA:38:A:H2'	36:BA:39:C:H6	1.50	0.76
36:BA:672:C:C2'	36:BA:673:C:H5''	2.14	0.76
36:BA:991:C:H5'	36:BA:991:C:H6	1.50	0.76
36:BA:1828:G:O6	39:BD:222:ARG:HD3	1.85	0.76
36:BA:2553:G:H2'	36:BA:2554:U:O4'	1.86	0.76
39:BD:66:ASP:CG	39:BD:103:ARG:HH21	1.94	0.76
41:BF:37:VAL:HG22	41:BF:183:VAL:HG23	1.68	0.76
41:BF:113:ALA:O	41:BF:117:ARG:HB2	1.84	0.76
46:BN:28:THR:CG2	46:BN:29:LYS:H	1.99	0.76
51:BS:15:ARG:HB2	51:BS:15:ARG:HH11	1.51	0.76
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	2.00	0.76
1:CA:355:C:H2'	1:CA:356:A:H8	1.50	0.76
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.66	0.76
9:CI:99:LEU:HB3	9:CI:101:PHE:CD1	2.20	0.76
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.11	0.76
25:CZ:313:HIS:HB2	25:CZ:380:LEU:HD12	1.66	0.76
34:D8:30:ARG:NE	34:D8:30:ARG:HA	1.98	0.76
36:DA:197:A:C8	36:DA:197:A:H5'	2.20	0.76
36:DA:1184:G:O2'	36:DA:1185:C:H5'	1.84	0.76
36:DA:2246:G:H2'	36:DA:2247:A:C8	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:44:G:H4'	37:DB:45:A:C8	2.20	0.76
39:DD:83:GLU:HB2	39:DD:92:ILE:HD11	1.67	0.76
2:AB:36:ARG:C	2:AB:38:GLY:H	1.94	0.76
25:AZ:72:THR:HG22	25:AZ:203:LEU:CD2	2.15	0.76
36:BA:903:C:H2'	36:BA:904:C:C6	2.21	0.76
36:BA:2064:C:H2'	36:BA:2065:C:C6	2.21	0.76
36:BA:2415:G:H4'	48:BP:66:GLY:C	2.11	0.76
1:CA:1152:A:O2'	1:CA:1153:C:H5'	1.86	0.76
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.01	0.76
7:CG:72:ARG:CG	7:CG:73:MET:HG3	2.15	0.76
22:CV:68:C:C3'	22:CV:69:G:H5''	2.16	0.76
36:DA:650:C:H3'	36:DA:651:G:H5''	1.67	0.76
36:DA:2064:C:H2'	36:DA:2065:C:C6	2.21	0.76
36:DA:2110:G:H1	36:DA:2178:C:N4	1.83	0.76
36:DA:2590:A:OP2	39:DD:238:GLY:HA2	1.85	0.76
52:DT:107:ASP:OD2	52:DT:109:GLU:HG3	1.84	0.76
1:AA:584:G:H2'	1:AA:585:G:C8	2.20	0.76
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.01	0.76
25:AZ:317:GLU:HG3	25:AZ:404:LEU:HD21	1.67	0.76
27:B1:8:SER:OG	27:B1:10:LYS:HG3	1.86	0.76
31:B5:3:LYS:HD3	36:BA:747:U:P	2.26	0.76
31:B5:34:PRO:O	31:B5:35:GLU:HG2	1.84	0.76
32:B6:48:VAL:HG23	32:B6:49:HIS:H	1.50	0.76
36:BA:296:C:O2'	36:BA:297:C:H5'	1.84	0.76
36:BA:482:A:H4'	57:BY:47:LYS:HD3	1.67	0.76
36:BA:968:G:O2'	36:BA:969:U:H5'	1.85	0.76
36:BA:1603:A:H8	36:BA:1603:A:H5'	1.50	0.76
36:BA:2389:G:H5''	36:BA:2390:U:H5'	1.68	0.76
48:BP:47:ASP:HB3	48:BP:49:ARG:H	1.48	0.76
1:CA:84:U:C2'	1:CA:88:A:H5'	2.16	0.76
1:CA:436:C:H2'	1:CA:437:U:C6	2.21	0.76
1:CA:737:A:H2'	1:CA:738:C:C6	2.20	0.76
1:CA:1256:A:H5'	1:CA:1257:U:OP1	1.85	0.76
2:CB:87:ARG:HH21	2:CB:233:SER:N	1.84	0.76
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.00	0.76
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.51	0.76
7:CG:105:VAL:O	7:CG:106:GLN:C	2.28	0.76
20:CT:14:LYS:O	20:CT:18:GLN:HB2	1.85	0.76
25:CZ:367:ASN:N	25:CZ:367:ASN:HD22	1.82	0.76
31:D5:34:PRO:O	31:D5:35:GLU:HG2	1.86	0.76
36:DA:827:U:H2'	36:DA:2068:U:C2	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1665:A:H2'	36:DA:1666:G:C5'	2.15	0.76
36:DA:1693:U:C6	36:DA:1693:U:H5'	2.21	0.76
42:DG:163:ALA:HB1	42:DG:169:ALA:HB2	1.66	0.76
53:DU:88:ILE:C	53:DU:90:VAL:H	1.91	0.76
56:DX:12:VAL:HG12	56:DX:27:THR:C	2.11	0.76
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.86	0.76
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.51	0.76
9:AI:9:ARG:HB2	9:AI:104:ARG:NH1	1.99	0.76
10:AJ:12:ASP:HB3	10:AJ:15:THR:HG1	1.49	0.76
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	1.85	0.76
19:AS:44:MET:HA	19:AS:47:HIS:CD2	2.15	0.76
25:AZ:138:VAL:CG2	25:AZ:173:GLY:H	1.87	0.76
36:BA:1184:G:O2'	36:BA:1185:C:H5'	1.86	0.76
36:BA:1665:A:C3'	36:BA:1666:G:H5''	2.15	0.76
36:BA:2200:C:H42	36:BA:2223:G:H1	1.33	0.76
40:BE:195:LEU:HD12	40:BE:196:VAL:H	1.49	0.76
55:BW:5:ALA:HB2	55:BW:54:ALA:CB	2.16	0.76
1:CA:741:G:H2'	1:CA:742:G:H8	1.51	0.76
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.67	0.76
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.86	0.76
18:CR:53:ARG:NH2	18:CR:59:SER:HA	1.99	0.76
36:DA:2422:A:H4'	36:DA:2423:U:OP1	1.85	0.76
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.66	0.76
50:DR:103:ARG:NH1	50:DR:110:PRO:HD3	2.01	0.76
52:DT:129:ARG:CZ	52:DT:131:ALA:HB3	2.15	0.76
1:AA:105:G:H2'	1:AA:106:C:C6	2.20	0.76
1:AA:552:U:H2'	1:AA:553:A:H8	1.49	0.76
4:AD:30:LYS:C	4:AD:32:ALA:N	2.43	0.76
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.86	0.76
22:AV:59:U:O2'	22:AV:60:U:H6	1.67	0.76
24:AY:40:G:C2'	24:AY:41:G:H5''	2.15	0.76
27:B1:44:PRO:HG2	27:B1:46:LEU:HD23	1.67	0.76
28:B2:68:ARG:NH1	28:B2:72:ALA:HB2	2.01	0.76
55:BW:12:ILE:HB	55:BW:42:ARG:HH12	1.51	0.76
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.20	0.76
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.68	0.76
10:CJ:8:LEU:HG	10:CJ:96:ILE:HG22	1.67	0.76
31:D5:3:LYS:HD3	36:DA:747:U:P	2.25	0.76
36:DA:2846:G:OP2	52:DT:54:ARG:HD2	1.86	0.76
40:DE:80:GLU:O	40:DE:81:ILE:HG12	1.85	0.76
41:DF:113:ALA:O	41:DF:117:ARG:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:114:ILE:H	47:DO:114:ILE:CD1	1.97	0.76
49:DQ:134:ARG:HD2	58:DZ:122:ARG:NH2	2.00	0.76
58:DZ:57:ILE:HD12	58:DZ:57:ILE:N	2.00	0.76
1:AA:607:A:O2'	1:AA:608:A:H5'	1.85	0.76
1:AA:1124:G:N2	1:AA:1126:U:H3	1.83	0.76
1:AA:1256:A:H5'	1:AA:1257:U:OP1	1.85	0.76
10:AJ:89:ASP:O	10:AJ:90:LEU:HB2	1.85	0.76
24:AY:14:A:H2'	24:AY:15:G:O4'	1.84	0.76
25:AZ:132:VAL:HG13	25:AZ:169:PRO:HB2	1.68	0.76
36:BA:116:C:H2'	36:BA:117:G:C8	2.20	0.76
36:BA:534:U:O2'	53:BU:49:HIS:HD2	1.68	0.76
36:BA:751:A:H5'	55:BW:90:ARG:HA	1.67	0.76
36:BA:1165:U:H2'	36:BA:1166:C:H6	1.51	0.76
36:BA:2025:C:H2'	36:BA:2026:C:C6	2.20	0.76
36:BA:2454:G:H2'	36:BA:2455:G:C8	2.21	0.76
37:BB:34:U:H4'	37:BB:35:U:C5	2.20	0.76
48:BP:77:ARG:HD3	48:BP:78:PRO:HD2	1.67	0.76
1:CA:450:G:H5''	1:CA:451:A:H3'	1.67	0.76
1:CA:1249:C:H5'	1:CA:1249:C:H6	1.51	0.76
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.84	0.76
4:CD:6:GLY:O	4:CD:8:VAL:HG13	1.86	0.76
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.15	0.76
10:CJ:16:LEU:HD13	10:CJ:17:ASP:N	2.00	0.76
11:CK:38:ASN:HD22	11:CK:38:ASN:N	1.84	0.76
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.68	0.76
20:CT:36:LEU:HD11	20:CT:59:ALA:HB2	1.68	0.76
36:DA:145:G:C2'	36:DA:146:G:H5''	2.16	0.76
36:DA:272(D):G:H2'	36:DA:272(E):G:H8	1.50	0.76
36:DA:814:C:O2'	36:DA:815:C:H5'	1.86	0.76
36:DA:1058:G:C2'	36:DA:1059:G:H5''	2.15	0.76
36:DA:2262:U:H2'	36:DA:2263:C:C5	2.20	0.76
39:DD:8:PRO:HB3	39:DD:14:ARG:HB2	1.68	0.76
50:DR:99:LYS:HD2	50:DR:99:LYS:N	2.00	0.76
55:DW:52:GLU:C	55:DW:54:ALA:H	1.93	0.76
1:AA:807:A:H2'	1:AA:808:C:H6	1.51	0.76
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.16	0.76
1:AA:1323:G:O2'	1:AA:1324:A:H5'	1.86	0.76
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.34	0.76
7:AG:24:THR:HA	7:AG:27:ILE:CD1	2.16	0.76
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.49	0.76
25:AZ:234:ARG:HD2	25:AZ:289:LEU:HD22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:36:CYS:SG	31:B5:38:ALA:HB3	2.25	0.76
36:BA:1612:C:N4	36:BA:1619:G:H1	1.83	0.76
38:BC:75:LEU:O	38:BC:114:VAL:HG22	1.86	0.76
43:BH:52:VAL:HG11	43:BH:66:GLY:H	1.51	0.76
50:BR:103:ARG:NH1	50:BR:110:PRO:HD3	2.00	0.76
52:BT:107:ASP:OD2	52:BT:109:GLU:HG3	1.85	0.76
57:BY:86:ARG:HB3	57:BY:88:LYS:NZ	1.99	0.76
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.50	0.76
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.68	0.76
10:CJ:78:ASN:HD22	10:CJ:81:THR:CG2	1.98	0.76
25:CZ:356:PRO:N	25:CZ:359:VAL:HG21	2.01	0.76
36:DA:536:A:H2'	36:DA:537:C:C6	2.20	0.76
36:DA:1411:C:H2'	36:DA:1412:A:C8	2.20	0.76
36:DA:2570:G:H2'	36:DA:2571:C:H6	1.51	0.76
41:DF:24:LEU:CB	41:DF:25:PRO:HD2	2.16	0.76
41:DF:118:ALA:HA	41:DF:123:LEU:HB2	1.68	0.76
48:DP:12:ALA:HB1	48:DP:16:ARG:HB3	1.66	0.76
1:AA:1152:A:O2'	1:AA:1153:C:H5'	1.86	0.75
1:AA:1442(A):G:H5'	1:AA:1442(B):A:OP2	1.86	0.75
3:AC:64:VAL:O	3:AC:100:ALA:HB3	1.86	0.75
5:AE:92:LYS:O	5:AE:118:ILE:HD12	1.85	0.75
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.01	0.75
14:AN:12:ARG:C	14:AN:14:PRO:HD2	2.11	0.75
19:AS:44:MET:N	19:AS:44:MET:SD	2.58	0.75
36:BA:1539:G:C2	36:BA:1540:U:H1'	2.21	0.75
38:BC:114:VAL:CB	38:BC:149:ILE:HD11	2.08	0.75
51:BS:46:VAL:HG12	51:BS:47:THR:H	1.50	0.75
56:BX:14:SER:O	56:BX:17:ALA:HB3	1.85	0.75
1:CA:1242:C:H2'	1:CA:1243:C:C6	2.20	0.75
22:CV:59:U:O2'	22:CV:60:U:H6	1.68	0.75
25:CZ:389:ARG:HA	25:CZ:395:VAL:HG13	1.66	0.75
32:D6:36:LEU:HD12	32:D6:50:ARG:NH2	2.00	0.75
36:DA:2358:G:O2'	36:DA:2359:C:H5'	1.86	0.75
42:DG:46:ALA:CB	42:DG:88:ILE:HG13	2.16	0.75
52:DT:89:VAL:CG1	52:DT:91:ARG:HE	1.99	0.75
56:DX:56:THR:HG22	56:DX:79:ALA:CB	2.16	0.75
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.51	0.75
9:AI:110:GLU:HG2	9:AI:113:LYS:NZ	2.01	0.75
12:AL:89:ARG:NH1	12:AL:91:LYS:HD3	2.00	0.75
35:B9:36:GLN:NE2	36:BA:1031:G:H21	1.84	0.75
36:BA:1514:U:H2'	36:BA:1515:G:H8	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2008:C:H2'	36:BA:2009:G:C8	2.21	0.75
36:BA:2228:G:OP1	39:BD:261:LYS:HE3	1.86	0.75
37:BB:34:U:H4'	37:BB:35:U:H5	1.50	0.75
48:BP:96:THR:O	48:BP:99:LEU:HB3	1.86	0.75
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.50	0.75
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.66	0.75
11:CK:82:VAL:HG12	11:CK:108:ILE:HA	1.68	0.75
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.67	0.75
26:D0:77:ARG:HH22	36:DA:857:C:H5'	1.49	0.75
34:D8:59:LYS:HD3	48:DP:50:ARG:HB3	1.67	0.75
36:DA:440:G:N2	41:DF:46:ARG:HH21	1.85	0.75
36:DA:508:G:H5'	36:DA:509:C:OP1	1.87	0.75
36:DA:1842:G:H2'	36:DA:1843:C:C6	2.21	0.75
36:DA:1998:G:O2'	36:DA:1999:C:H5'	1.86	0.75
41:DF:3:GLU:O	41:DF:19:GLU:HB2	1.86	0.75
49:DQ:110:THR:HG23	49:DQ:113:GLN:H	1.48	0.75
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.68	0.75
25:AZ:225:VAL:HG12	25:AZ:300:ARG:HA	1.69	0.75
34:B8:3:LYS:HD3	36:BA:242:G:O5'	1.86	0.75
36:BA:1013:C:O2'	36:BA:1014:U:H5'	1.86	0.75
36:BA:1370:C:H3'	36:BA:1371:G:H8	1.50	0.75
40:BE:47:VAL:HG21	40:BE:85:ASN:HA	1.68	0.75
41:BF:57:VAL:HG12	41:BF:58:ALA:N	2.01	0.75
51:BS:67:ARG:HH21	51:BS:100:ALA:HB3	1.49	0.75
52:BT:58:ASN:ND2	52:BT:58:ASN:N	2.34	0.75
56:BX:36:LYS:CA	56:BX:39:ILE:HB	2.15	0.75
56:BX:56:THR:HG22	56:BX:79:ALA:CB	2.16	0.75
1:CA:619:U:C2	4:CD:135:LEU:HD21	2.21	0.75
1:CA:1442:G:H2'	1:CA:1442(B):A:C2	2.21	0.75
19:CS:63:THR:HG22	19:CS:66:MET:HG2	1.67	0.75
36:DA:269:U:O2	36:DA:269:U:H2'	1.85	0.75
36:DA:811:U:OP2	48:DP:24:GLY:HA2	1.86	0.75
41:DF:2:LYS:HG3	41:DF:25:PRO:HG2	1.69	0.75
49:DQ:70:PRO:HA	49:DQ:94:VAL:O	1.86	0.75
54:DV:22:VAL:HG22	54:DV:92:THR:O	1.87	0.75
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.51	0.75
2:AB:204:ASN:HD21	2:AB:207:ALA:N	1.84	0.75
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.49	0.75
36:BA:2422:A:H4'	36:BA:2423:U:OP1	1.86	0.75
36:BA:2771:C:O2'	40:BE:168:MET:HE1	1.86	0.75
39:BD:183:ARG:HD2	39:BD:270:ILE:HG22	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:33:LEU:HD12	43:BH:75:ALA:CA	2.17	0.75
1:CA:1251:A:H4'	9:CI:12:GLU:OE1	1.86	0.75
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.17	0.75
36:DA:145:G:C3'	36:DA:146:G:H5''	2.16	0.75
36:DA:709:U:H2'	36:DA:710:G:C8	2.21	0.75
36:DA:2752:C:H2'	36:DA:2752:C:O2	1.85	0.75
36:DA:2861:G:O2'	36:DA:2862:G:H5'	1.86	0.75
42:DG:51:ARG:HA	42:DG:51:ARG:HE	1.47	0.75
43:DH:118:PRO:HG2	43:DH:121:ILE:HB	1.69	0.75
52:DT:13:ARG:NE	52:DT:13:ARG:HA	2.01	0.75
58:DZ:79:ARG:O	58:DZ:80:ARG:C	2.28	0.75
1:AA:1489:G:O2'	1:AA:1490:C:H5'	1.87	0.75
4:AD:100:ARG:NH2	4:AD:118:ARG:HH12	1.80	0.75
10:AJ:78:ASN:HD22	10:AJ:81:THR:CG2	1.98	0.75
36:BA:687:C:H2'	36:BA:688:U:O4'	1.86	0.75
36:BA:1208:C:H2'	36:BA:1209:G:H8	1.50	0.75
36:BA:2306:C:H4'	42:BG:136:ARG:NH2	2.01	0.75
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.87	0.75
52:BT:109:GLU:O	52:BT:112:ARG:HG2	1.86	0.75
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.68	0.75
10:CJ:50:ILE:HD13	10:CJ:50:ILE:N	1.99	0.75
12:CL:45:PRO:HD3	12:CL:51:ALA:O	1.87	0.75
14:CN:23:ARG:HA	14:CN:30:ALA:HA	1.69	0.75
26:D0:20:ARG:HD2	26:D0:20:ARG:H	1.51	0.75
36:DA:296:C:O2'	36:DA:297:C:H5'	1.87	0.75
36:DA:2025:C:H2'	36:DA:2026:C:H6	1.50	0.75
36:DA:2287:A:H62	36:DA:2344:U:H3	1.35	0.75
39:DD:66:ASP:OD2	39:DD:69:ARG:HG3	1.85	0.75
39:DD:166:GLN:HA	39:DD:166:GLN:NE2	2.00	0.75
41:DF:32:LEU:O	41:DF:36:VAL:HG23	1.87	0.75
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.66	0.75
55:DW:5:ALA:HB2	55:DW:54:ALA:CB	2.17	0.75
55:DW:41:LYS:C	55:DW:43:GLY:H	1.93	0.75
1:AA:401:C:H2'	1:AA:402:G:H8	1.51	0.75
1:AA:936:C:H2'	1:AA:937:A:H8	1.51	0.75
1:AA:1468:A:H2'	1:AA:1469:G:O4'	1.86	0.75
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	1.86	0.75
29:B3:23:LEU:C	29:B3:25:ALA:H	1.93	0.75
29:B3:27:GLY:C	29:B3:28:LEU:HD23	2.10	0.75
34:B8:61:LEU:CD1	34:B8:62:LEU:H	1.98	0.75
36:BA:1435:G:H1	36:BA:1557:C:H42	1.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1473:G:C2	36:BA:1474:C:H1'	2.22	0.75
36:BA:2287:A:H62	36:BA:2344:U:H3	1.33	0.75
36:BA:2338:G:H2'	36:BA:2339:G:H8	1.50	0.75
41:BF:160:ASN:OD1	41:BF:163:VAL:HG23	1.87	0.75
42:BG:21:ARG:NH2	42:BG:22:ARG:HG2	2.01	0.75
55:BW:3:ALA:O	55:BW:106:ILE:HA	1.87	0.75
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.68	0.75
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	1.99	0.75
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.50	0.75
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.69	0.75
31:D5:16:ARG:NH1	31:D5:20:ARG:HH11	1.84	0.75
33:D7:12:ARG:HH21	33:D7:44:PRO:HB3	1.52	0.75
34:D8:61:LEU:HD12	34:D8:62:LEU:H	1.50	0.75
36:DA:736:C:H42	36:DA:760:G:H1	1.34	0.75
37:DB:82:G:H2'	37:DB:83:G:H8	1.52	0.75
42:DG:34:LEU:HD11	42:DG:100:TRP:CZ2	2.22	0.75
46:DN:58:ASP:C	46:DN:60:ILE:H	1.93	0.75
25:AZ:347:THR:HG22	25:AZ:348:ASP:H	1.51	0.75
36:BA:633:A:H5''	48:BP:77:ARG:HH12	1.49	0.75
36:BA:2110:G:H1	36:BA:2178:C:N4	1.85	0.75
36:BA:2861:G:O2'	36:BA:2862:G:H5'	1.86	0.75
36:BA:2887:U:H2'	36:BA:2888:C:C6	2.19	0.75
42:BG:87:PRO:O	42:BG:88:ILE:HD13	1.86	0.75
48:BP:62:LEU:HD23	48:BP:62:LEU:H	1.49	0.75
50:BR:103:ARG:HH11	50:BR:110:PRO:HD3	1.52	0.75
52:BT:89:VAL:CG1	52:BT:91:ARG:HE	2.00	0.75
52:BT:89:VAL:HG11	52:BT:91:ARG:HE	1.51	0.75
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.11	0.75
1:CA:584:G:H2'	1:CA:585:G:C8	2.21	0.75
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.69	0.75
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.68	0.75
11:CK:27:ASN:HA	11:CK:56:GLY:HA2	1.67	0.75
36:DA:271:A:C2	36:DA:366:C:H1'	2.20	0.75
36:DA:318:C:O2'	36:DA:319:C:H5'	1.86	0.75
36:DA:1242:A:H5'	36:DA:1243:G:OP2	1.87	0.75
36:DA:2833:G:H3'	36:DA:2834:G:H5'	1.66	0.75
39:DD:79:VAL:HG23	39:DD:115:GLN:O	1.86	0.75
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.87	0.75
51:DS:15:ARG:HB2	51:DS:15:ARG:HH11	1.52	0.75
1:AA:219:C:H2'	1:AA:220:G:O4'	1.86	0.75
1:AA:688:G:H2'	1:AA:689:C:H6	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:836:G:H2'	36:BA:837:C:C6	2.21	0.75
36:BA:1350:C:H2'	36:BA:1351:C:H6	1.51	0.75
36:BA:1665:A:H2'	36:BA:1666:G:C5'	2.17	0.75
36:BA:2201:C:H2'	36:BA:2202:C:H6	1.52	0.75
36:BA:2542:A:H5'	36:BA:2543:G:OP1	1.86	0.75
38:BC:6:ARG:HG2	38:BC:6:ARG:HH11	1.52	0.75
48:BP:146:VAL:HG22	48:BP:147:LEU:N	1.93	0.75
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CD	2.12	0.75
1:CA:386:C:H2'	1:CA:387:U:C5'	2.17	0.75
2:CB:36:ARG:C	2:CB:38:GLY:H	1.94	0.75
8:CH:9:MET:SD	8:CH:32:LYS:HG2	2.26	0.75
32:D6:12:GLU:CD	32:D6:54:ILE:HG22	2.12	0.75
36:DA:38:A:H2'	36:DA:39:C:H6	1.51	0.75
36:DA:216:A:H2'	36:DA:217:G:O4'	1.86	0.75
36:DA:1165:U:H2'	36:DA:1166:C:C6	2.22	0.75
36:DA:1899:G:N2	36:DA:1902:C:H41	1.85	0.75
36:DA:2136:C:H42	36:DA:2155:G:H1	1.32	0.75
36:DA:2463:C:O2'	36:DA:2464:C:H5'	1.85	0.75
55:DW:71:VAL:HA	55:DW:107:LEU:HA	1.67	0.75
18:AR:53:ARG:NH2	18:AR:59:SER:HA	2.01	0.75
29:B3:59:VAL:HG12	29:B3:60:GLU:N	1.99	0.75
36:BA:287:C:H2'	36:BA:288:C:C6	2.22	0.75
36:BA:1998:G:O2'	36:BA:1999:C:H5'	1.87	0.75
36:BA:2262:U:H2'	36:BA:2263:C:C5	2.21	0.75
43:BH:61:HIS:C	43:BH:63:SER:H	1.95	0.75
43:BH:130:ARG:HB3	43:BH:130:ARG:NH1	2.02	0.75
46:BN:21:LYS:HE3	46:BN:25:ARG:HB3	1.69	0.75
48:BP:100:LEU:HB3	48:BP:106:LEU:HD13	1.69	0.75
55:BW:71:VAL:HA	55:BW:107:LEU:HA	1.67	0.75
1:CA:8:A:H5'	5:CE:120:THR:O	1.86	0.75
1:CA:1054:C:H6	1:CA:1196:U:C4	2.04	0.75
1:CA:1249:C:H5''	9:CI:70:LYS:NZ	2.02	0.75
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.21	0.75
2:CB:204:ASN:HD21	2:CB:207:ALA:N	1.83	0.75
28:D2:11:GLU:O	28:D2:15:LYS:HG2	1.87	0.75
34:D8:50:LEU:HD12	34:D8:51:ALA:N	2.00	0.75
36:DA:1327:C:H42	36:DA:1647:G:N2	1.85	0.75
40:DE:55:ASN:ND2	40:DE:75:VAL:HG22	2.01	0.75
51:DS:67:ARG:HH21	51:DS:100:ALA:HB3	1.52	0.75
52:DT:89:VAL:HG11	52:DT:91:ARG:HE	1.52	0.75
3:AC:26:LYS:HG3	3:AC:27:LYS:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.68	0.74
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	1.68	0.74
13:AM:52:GLU:HG2	13:AM:55:ARG:HH11	1.51	0.74
25:AZ:313:HIS:HB2	25:AZ:380:LEU:HD12	1.67	0.74
36:BA:458:G:N2	36:BA:469:G:H2'	2.01	0.74
36:BA:1027:A:N3	36:BA:1027:A:H2'	2.02	0.74
36:BA:1268:A:H2'	36:BA:1269:A:O4'	1.87	0.74
36:BA:1949:G:H1	36:BA:1957:C:H42	1.33	0.74
36:BA:2305:A:H61	42:BG:43:LEU:HD13	1.52	0.74
39:BD:154:LYS:C	39:BD:155:LEU:HD12	2.12	0.74
41:BF:5:ALA:HA	41:BF:123:LEU:HD23	1.67	0.74
41:BF:118:ALA:HA	41:BF:123:LEU:HB2	1.69	0.74
47:BO:107:ARG:NH1	52:BT:35:LYS:HD2	2.02	0.74
1:CA:688:G:H2'	1:CA:689:C:H6	1.52	0.74
1:CA:987:G:H2'	1:CA:988:G:H8	1.52	0.74
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.23	0.74
1:CA:1202:G:H4'	14:CN:29:ARG:HD3	1.67	0.74
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.22	0.74
10:CJ:50:ILE:H	10:CJ:50:ILE:CD1	2.00	0.74
14:CN:22:THR:O	14:CN:23:ARG:HB3	1.87	0.74
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.52	0.74
29:D3:59:VAL:HG12	29:D3:60:GLU:N	2.00	0.74
36:DA:1164:G:O2'	36:DA:1165:U:H5'	1.87	0.74
36:DA:2243:U:H2'	36:DA:2244:U:C6	2.22	0.74
37:DB:34:U:H4'	37:DB:35:U:C5	2.21	0.74
43:DH:42:ARG:O	43:DH:43:VAL:HG13	1.87	0.74
58:DZ:28:MET:HA	58:DZ:88:PHE:HB2	1.69	0.74
1:AA:80:G:C3'	1:AA:81:U:H5'	2.17	0.74
1:AA:1320:C:H5''	19:AS:70:LYS:HG3	1.68	0.74
1:AA:1493:A:N1	24:AY:37:YG:H5''	2.01	0.74
24:AY:53:G:H5''	25:AZ:332:THR:HG21	1.68	0.74
31:B5:36:CYS:SG	31:B5:48:GLU:O	2.45	0.74
36:BA:364:C:O2	36:BA:364:C:H2'	1.86	0.74
36:BA:768:G:H2'	36:BA:769:G:H8	1.49	0.74
36:BA:1411:C:H2'	36:BA:1412:A:C8	2.21	0.74
36:BA:2441:C:H2'	36:BA:2442:C:H6	1.51	0.74
41:BF:20:LEU:HD12	41:BF:199:TRP:HH2	1.52	0.74
1:CA:17:U:H2'	1:CA:18:C:H6	1.52	0.74
1:CA:673:G:H5''	6:CF:87:ARG:NH1	2.02	0.74
1:CA:818:G:O2'	1:CA:819:A:H5'	1.87	0.74
2:CB:87:ARG:HE	2:CB:233:SER:CB	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:148:GLY:HA3	3:CC:172:ARG:O	1.86	0.74
9:CI:43:ALA:C	9:CI:45:ALA:H	1.92	0.74
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.01	0.74
36:DA:272(H):C:C2'	36:DA:272(I):U:H5''	2.17	0.74
36:DA:2108:C:H2'	36:DA:2108:C:O2	1.86	0.74
41:DF:5:ALA:HA	41:DF:123:LEU:HD23	1.68	0.74
42:DG:46:ALA:HB3	42:DG:88:ILE:HG13	1.69	0.74
42:DG:133:LEU:HD12	42:DG:157:ILE:HB	1.68	0.74
47:DO:111:PHE:O	47:DO:115:VAL:HG23	1.87	0.74
48:DP:100:LEU:HB3	48:DP:106:LEU:HD13	1.67	0.74
2:AB:134:GLU:C	2:AB:136:VAL:H	1.93	0.74
6:AF:92:LYS:O	6:AF:94:GLN:HG3	1.88	0.74
9:AI:99:LEU:HB3	9:AI:101:PHE:CD1	2.22	0.74
32:B6:15:GLU:CD	32:B6:18:ARG:CZ	2.61	0.74
34:B8:61:LEU:HD13	34:B8:62:LEU:HG	1.67	0.74
36:BA:491:G:O2'	36:BA:492:A:H5'	1.86	0.74
36:BA:898:C:H2'	36:BA:899:A:H5'	1.67	0.74
36:BA:979:G:H8	36:BA:979:G:O5'	1.68	0.74
36:BA:1327:C:N4	36:BA:1647:G:H21	1.84	0.74
36:BA:2108:C:H2'	36:BA:2108:C:O2	1.86	0.74
42:BG:34:LEU:HA	42:BG:161:THR:CG2	2.18	0.74
42:BG:66:GLN:C	42:BG:67:LYS:HD3	2.11	0.74
1:CA:100:C:H2'	1:CA:101:A:C8	2.22	0.74
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.12	0.74
13:CM:6:GLY:C	13:CM:8:GLU:H	1.94	0.74
19:CS:51:VAL:HG12	19:CS:52:TYR:H	1.51	0.74
22:CV:56:C:C1'	42:DG:76:SER:HB2	2.17	0.74
25:CZ:347:THR:HG22	25:CZ:348:ASP:H	1.53	0.74
28:D2:38:GLN:CB	28:D2:44:LEU:HD13	2.13	0.74
36:DA:2840:C:H5''	50:DR:53:HIS:HD2	1.48	0.74
40:DE:38:THR:HG22	40:DE:40:GLU:H	1.52	0.74
1:AA:450:G:H5''	1:AA:451:A:H3'	1.69	0.74
1:AA:627:G:H2'	1:AA:628:G:C8	2.21	0.74
1:AA:711:G:H2'	1:AA:712:A:C8	2.23	0.74
29:B3:7:LYS:O	29:B3:54:VAL:HA	1.87	0.74
32:B6:7:ILE:HG22	32:B6:7:ILE:O	1.88	0.74
35:B9:4:ARG:HB2	36:BA:2466:C:OP1	1.87	0.74
36:BA:508:G:H5'	36:BA:509:C:OP1	1.88	0.74
36:BA:2144:U:H2'	36:BA:2146:C:H5	1.51	0.74
36:BA:2402:C:H2'	36:BA:2403:C:H5'	1.68	0.74
38:BC:161:ILE:C	38:BC:161:ILE:HD12	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:136:ILE:HD12	39:BD:136:ILE:N	2.02	0.74
39:BD:248:SER:HB2	39:BD:249:PRO:HD2	1.69	0.74
43:BH:44:VAL:HG12	43:BH:45:VAL:N	2.02	0.74
43:BH:118:PRO:HG3	43:BH:121:ILE:HD12	1.68	0.74
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.16	0.74
16:CP:49:LEU:HD12	16:CP:50:LYS:N	2.03	0.74
22:CW:17:C:H41	36:DA:2110:G:H21	1.34	0.74
24:CY:6:U:C2'	24:CY:7:A:H5''	2.17	0.74
34:D8:61:LEU:HD13	34:D8:62:LEU:HG	1.69	0.74
36:DA:116:C:H2'	36:DA:117:G:C8	2.22	0.74
36:DA:271(F):C:H2'	36:DA:271(G):C:O4'	1.88	0.74
41:DF:61:GLY:O	41:DF:62:ARG:C	2.30	0.74
49:DQ:32:TYR:CE2	49:DQ:111:GLU:HG3	2.21	0.74
58:DZ:77:ASP:O	58:DZ:78:LYS:HB2	1.87	0.74
10:AJ:8:LEU:HG	10:AJ:96:ILE:HG22	1.70	0.74
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.17	0.74
13:AM:120:LYS:O	13:AM:121:LYS:HG3	1.88	0.74
36:BA:271(F):C:H2'	36:BA:271(G):C:O4'	1.87	0.74
36:BA:2570:G:H2'	36:BA:2571:C:H6	1.53	0.74
40:BE:111:ARG:HA	50:BR:2:ARG:CG	2.16	0.74
42:BG:140:ILE:HD12	42:BG:141:PHE:N	2.03	0.74
54:BV:22:VAL:HG22	54:BV:92:THR:O	1.87	0.74
1:CA:627:G:H2'	1:CA:628:G:C8	2.22	0.74
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.52	0.74
9:CI:9:ARG:HB2	9:CI:104:ARG:NH1	2.01	0.74
13:CM:57:ARG:HG2	13:CM:61:GLU:HB2	1.68	0.74
22:CW:74:C:H5'	22:CW:75:C:OP2	1.88	0.74
27:D1:50:ARG:NH2	36:DA:2200:C:H5'	2.02	0.74
36:DA:234:C:H2'	36:DA:235:U:H6	1.50	0.74
36:DA:991:C:H5'	36:DA:991:C:H6	1.51	0.74
37:DB:18:G:H2'	37:DB:19:G:O4'	1.87	0.74
42:DG:46:ALA:HB3	42:DG:88:ILE:CG1	2.18	0.74
53:DU:92:ARG:HD2	54:DV:11:GLN:CG	2.17	0.74
1:AA:254:G:N2	17:AQ:16:GLN:HE22	1.85	0.74
1:AA:473:G:H2'	1:AA:474:G:C8	2.23	0.74
1:AA:734:G:O2'	1:AA:735:C:H5'	1.87	0.74
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.86	0.74
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.20	0.74
2:AB:17:PHE:O	2:AB:17:PHE:HD2	1.69	0.74
25:AZ:146:LEU:N	25:AZ:149:LEU:HB3	2.03	0.74
27:B1:71:TYR:O	27:B1:74:VAL:HB	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:106:C:H2'	36:BA:107:C:H6	1.52	0.74
36:BA:1051:G:OP1	36:BA:2752:C:H1'	1.87	0.74
36:BA:1279:G:H1	36:BA:1291:C:H42	1.35	0.74
36:BA:1484:G:H2'	36:BA:1485:G:C5'	2.17	0.74
36:BA:2007:C:O2'	36:BA:2008:C:H5'	1.88	0.74
36:BA:2359:C:C2'	36:BA:2360:A:H5'	2.18	0.74
36:BA:2827:C:H2'	36:BA:2828:C:C6	2.23	0.74
50:BR:32:GLY:HA2	50:BR:116:LEU:HG	1.70	0.74
1:CA:1047:G:H1	1:CA:1210:C:H42	1.32	0.74
2:CB:17:PHE:O	2:CB:17:PHE:HD2	1.70	0.74
29:D3:11:SER:HB3	36:DA:988:A:P	2.27	0.74
36:DA:827:U:H2'	36:DA:2068:U:O2	1.87	0.74
36:DA:862:G:N3	36:DA:863:A:H1'	2.01	0.74
36:DA:898:C:H2'	36:DA:899:A:H5'	1.69	0.74
36:DA:904:C:H2'	36:DA:905:U:C6	2.22	0.74
36:DA:1208:C:H2'	36:DA:1209:G:H8	1.52	0.74
37:DB:81:G:H2'	37:DB:82:G:H5'	1.70	0.74
50:DR:13:HIS:O	50:DR:17:ARG:HB2	1.88	0.74
50:DR:32:GLY:HA2	50:DR:116:LEU:HG	1.70	0.74
50:DR:96:ARG:NH1	50:DR:117:VAL:HG23	2.01	0.74
1:AA:1106:G:O2'	1:AA:1107:C:H5'	1.88	0.74
14:AN:7:ILE:O	14:AN:11:LYS:HG3	1.88	0.74
22:AV:68:C:C3'	22:AV:69:G:H5''	2.17	0.74
36:BA:733:G:H8	36:BA:733:G:O5'	1.71	0.74
36:BA:1335:U:H2'	36:BA:1336:A:C8	2.22	0.74
37:BB:18:G:H2'	37:BB:19:G:O4'	1.87	0.74
39:BD:139:GLY:H	39:BD:165:ILE:HB	1.53	0.74
39:BD:186:HIS:HB3	39:BD:189:CYS:SG	2.26	0.74
42:BG:60:LEU:HD22	42:BG:63:ILE:HD11	1.69	0.74
43:BH:63:SER:O	43:BH:67:LEU:HB2	1.87	0.74
1:CA:607:A:O2'	1:CA:608:A:H5'	1.87	0.74
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.53	0.74
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.86	0.74
10:CJ:80:LYS:HB3	10:CJ:80:LYS:NZ	2.03	0.74
36:DA:1290:C:H2'	36:DA:1291:C:C6	2.23	0.74
36:DA:1385:G:H4'	36:DA:1386:C:OP1	1.85	0.74
36:DA:2389:G:H5''	36:DA:2390:U:H5'	1.69	0.74
38:DC:99:ILE:HD12	38:DC:102:LYS:NZ	2.03	0.74
38:DC:161:ILE:C	38:DC:161:ILE:HD12	2.12	0.74
39:DD:63:ARG:CG	39:DD:63:ARG:HH11	2.00	0.74
39:DD:64:ILE:HG13	39:DD:65:ILE:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:47:VAL:HG21	40:DE:85:ASN:HA	1.69	0.74
57:DY:86:ARG:HG2	57:DY:87:LYS:N	2.03	0.74
2:AB:69:LEU:HD12	2:AB:71:VAL:HG23	1.67	0.74
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.03	0.74
5:AE:64:ARG:CA	5:AE:66:MET:HE2	2.18	0.74
13:AM:94:ARG:HG2	19:AS:82:GLY:N	2.03	0.74
36:BA:272(D):G:H2'	36:BA:272(E):G:H8	1.52	0.74
36:BA:1498:C:C3'	36:BA:1499:C:H5''	2.17	0.74
38:BC:94:VAL:CG1	38:BC:95:GLY:H	1.94	0.74
40:BE:52:LEU:HB2	40:BE:76:ARG:HB2	1.69	0.74
41:BF:2:LYS:HG3	41:BF:25:PRO:HG2	1.69	0.74
58:BZ:163:LEU:HD21	58:BZ:165:VAL:HG23	1.68	0.74
1:CA:936:C:H2'	1:CA:937:A:H8	1.51	0.74
1:CA:1314:C:OP2	19:CS:6:LYS:HG3	1.87	0.74
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.52	0.74
6:CF:60:PHE:CZ	18:CR:78:LEU:HD21	2.22	0.74
7:CG:24:THR:HA	7:CG:27:ILE:CD1	2.18	0.74
11:CK:17:GLY:HA3	11:CK:77:MET:SD	2.27	0.74
12:CL:113:ARG:CB	12:CL:122:THR:HG21	2.17	0.74
14:CN:12:ARG:C	14:CN:14:PRO:HD2	2.12	0.74
20:CT:62:LEU:O	20:CT:62:LEU:HD23	1.87	0.74
22:CV:74:C:N4	36:DA:2252:G:H1	1.86	0.74
27:D1:40:ARG:HH22	27:D1:42:GLN:HE21	1.33	0.74
27:D1:70:VAL:O	27:D1:73:LEU:HB2	1.88	0.74
29:D3:27:GLY:C	29:D3:28:LEU:HD23	2.12	0.74
36:DA:139(A):G:N2	56:DX:44:GLU:OE1	2.20	0.74
36:DA:608:A:H2'	36:DA:609:A:C8	2.23	0.74
36:DA:768:G:H2'	36:DA:769:G:C8	2.23	0.74
36:DA:904:C:H4'	58:DZ:169:GLU:OE1	1.86	0.74
36:DA:1268:A:H2'	36:DA:1269:A:O4'	1.87	0.74
36:DA:2040:C:H2'	36:DA:2041:U:C6	2.23	0.74
38:DC:75:LEU:O	38:DC:114:VAL:HG22	1.88	0.74
41:DF:84:VAL:HG12	41:DF:85:GLY:N	2.03	0.74
42:DG:169:ALA:O	42:DG:173:LEU:HG	1.88	0.74
50:DR:60:LEU:O	50:DR:63:ARG:HB2	1.88	0.74
56:DX:44:GLU:OE2	56:DX:50:LYS:HG3	1.87	0.74
57:DY:37:VAL:O	57:DY:38:ILE:HB	1.87	0.74
57:DY:73:ARG:HE	57:DY:73:ARG:HA	1.52	0.74
58:DZ:153:SER:H	58:DZ:167:PRO:HB2	1.52	0.74
1:AA:167:G:H2'	1:AA:168:G:H8	1.53	0.74
1:AA:373:A:O2'	1:AA:374:A:H5'	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:43:LEU:O	3:AC:47:LEU:HB2	1.87	0.74
4:AD:88:VAL:HG12	4:AD:90:GLY:H	1.53	0.74
7:AG:69:VAL:C	7:AG:138:LYS:HD2	2.13	0.74
36:BA:1092:C:H42	36:BA:1100:C:N4	1.83	0.74
39:BD:129:ASN:O	39:BD:193:VAL:HG12	1.88	0.74
46:BN:38:HIS:C	53:BU:67:ALA:HB1	2.12	0.74
46:BN:89:LYS:O	46:BN:93:THR:HG22	1.88	0.74
47:BO:76:ALA:HB3	52:BT:75:ILE:HD13	1.70	0.74
54:BV:98:GLU:OE2	54:BV:100:ARG:HD3	1.88	0.74
1:CA:1512:U:H3	1:CA:1523:G:H1	1.35	0.74
3:CC:70:VAL:HG12	3:CC:71:ALA:N	2.03	0.74
8:CH:14:ARG:HG3	8:CH:83:ILE:CG2	2.17	0.74
12:CL:86:ARG:HG2	12:CL:87:GLY:H	1.52	0.74
24:CY:40:G:H2'	24:CY:41:G:C5'	2.14	0.74
36:DA:287:C:H2'	36:DA:288:C:C6	2.22	0.74
36:DA:628:G:H2'	36:DA:629:G:H5''	1.68	0.74
36:DA:664:C:O2'	36:DA:665:C:H5'	1.88	0.74
36:DA:2157:G:O2'	36:DA:2158:A:H5'	1.87	0.74
36:DA:2854:G:H2'	36:DA:2855:C:C6	2.23	0.74
39:DD:129:ASN:O	39:DD:193:VAL:HG12	1.86	0.74
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.03	0.74
1:AA:575:G:OP1	1:AA:575:G:H4'	1.88	0.74
1:AA:1396:A:H2	5:AE:19:MET:HG3	1.53	0.74
11:AK:38:ASN:N	11:AK:38:ASN:HD22	1.83	0.74
32:B6:36:LEU:HD12	32:B6:50:ARG:CZ	2.17	0.74
36:BA:862:G:N3	36:BA:863:A:H1'	2.03	0.74
36:BA:2010:G:OP1	55:BW:41:LYS:HD3	1.87	0.74
38:BC:98:GLU:C	38:BC:100:ILE:H	1.94	0.74
42:BG:5:VAL:HG12	42:BG:6:ALA:H	1.53	0.74
47:BO:111:PHE:O	47:BO:115:VAL:HG23	1.87	0.74
51:BS:106:ARG:HD2	51:BS:107:GLU:N	2.03	0.74
52:BT:64:ARG:HB2	52:BT:73:GLU:HG2	1.68	0.74
1:CA:552:U:H2'	1:CA:553:A:H8	1.53	0.74
1:CA:574:A:N3	1:CA:883:C:H1'	2.03	0.74
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.86	0.74
1:CA:953:G:H2'	1:CA:954:G:O4'	1.85	0.74
3:CC:30:ARG:HG3	14:CN:37:PHE:O	1.88	0.74
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.17	0.74
14:CN:59:ALA:HB1	14:CN:61:TRP:HZ3	1.52	0.74
24:CY:30:C:O2	24:CY:30:C:H2'	1.88	0.74
25:CZ:339:ARG:NE	25:CZ:352:VAL:HG22	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:729:G:N7	39:DD:208:LYS:HB2	2.03	0.74
36:DA:1013:C:O2'	36:DA:1014:U:H5'	1.88	0.74
36:DA:2201:C:H2'	36:DA:2202:C:H6	1.51	0.74
40:DE:57:LYS:HE3	40:DE:57:LYS:CA	2.09	0.74
40:DE:77:ILE:HG22	40:DE:78:LEU:N	2.02	0.74
43:DH:102:ALA:HA	43:DH:117:PRO:HD3	1.69	0.74
6:AF:60:PHE:CZ	18:AR:78:LEU:HD21	2.22	0.73
22:AW:17:C:H41	36:BA:2110:G:H21	1.36	0.73
27:B1:7:ILE:HG22	27:B1:8:SER:N	2.02	0.73
34:B8:61:LEU:HD12	34:B8:62:LEU:H	1.53	0.73
36:BA:271(E):U:H2'	36:BA:271(F):C:C6	2.22	0.73
36:BA:2752:C:H2'	36:BA:2752:C:O2	1.88	0.73
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.23	0.73
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.17	0.73
6:CF:92:LYS:O	6:CF:94:GLN:HG3	1.88	0.73
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.70	0.73
19:CS:62:ILE:HD12	19:CS:66:MET:HE2	1.70	0.73
22:CW:57:G:H2'	22:CW:58:A:H5'	1.70	0.73
28:D2:38:GLN:CB	28:D2:44:LEU:HD22	2.18	0.73
32:D6:52:VAL:HG13	32:D6:53:LYS:N	2.02	0.73
34:D8:3:LYS:HD3	36:DA:242:G:O5'	1.88	0.73
34:D8:24:ALA:HA	34:D8:46:ARG:HH11	1.51	0.73
36:DA:487:C:H1'	55:DW:53:SER:HA	1.69	0.73
39:DD:70:TRP:CH2	39:DD:150:LYS:HA	2.23	0.73
39:DD:270:ILE:O	39:DD:270:ILE:HD12	1.87	0.73
41:DF:160:ASN:OD1	41:DF:163:VAL:HG23	1.85	0.73
1:AA:1251:A:H4'	9:AI:12:GLU:OE1	1.87	0.73
27:B1:3:LYS:HD3	36:BA:1364:G:C8	2.23	0.73
31:B5:4:HIS:C	36:BA:2056:G:H1	1.95	0.73
32:B6:52:VAL:HG13	32:B6:53:LYS:N	2.02	0.73
36:BA:1484:G:C3'	36:BA:1485:G:H5''	2.17	0.73
40:BE:55:ASN:ND2	40:BE:75:VAL:HG22	2.02	0.73
41:BF:29:ASN:HD22	41:BF:32:LEU:CB	1.99	0.73
42:BG:67:LYS:N	42:BG:67:LYS:CD	2.49	0.73
1:CA:22:G:H4'	1:CA:885:G:C8	2.23	0.73
1:CA:105:G:H2'	1:CA:106:C:C6	2.23	0.73
1:CA:684:A:H1'	11:CK:39:PRO:HD2	1.68	0.73
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.34	0.73
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.03	0.73
27:D1:58:ILE:CG1	27:D1:59:THR:H	2.00	0.73
36:DA:1494:A:H2'	36:DA:1495:A:C5'	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2150:U:H2'	36:DA:2151:G:C8	2.22	0.73
37:DB:21:G:H2'	37:DB:22:U:O4'	1.88	0.73
51:DS:77:ALA:C	51:DS:79:ALA:H	1.96	0.73
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.01	0.73
19:AS:62:ILE:HD12	19:AS:66:MET:HE2	1.68	0.73
31:B5:40:LYS:HZ3	31:B5:45:VAL:HA	1.52	0.73
32:B6:48:VAL:HG23	32:B6:49:HIS:N	2.04	0.73
36:BA:145:G:C3'	36:BA:146:G:H5''	2.18	0.73
36:BA:1058:G:C2'	36:BA:1059:G:H5''	2.18	0.73
36:BA:1092:C:N4	36:BA:1100:C:H42	1.82	0.73
36:BA:1498:C:C2'	36:BA:1499:C:H5''	2.18	0.73
36:BA:1654:A:OP1	50:BR:2:ARG:HA	1.88	0.73
42:BG:141:PHE:HB2	42:BG:144:ILE:HG22	1.70	0.73
49:BQ:6:ARG:O	49:BQ:7:MET:HG3	1.87	0.73
51:BS:13:ARG:HG3	51:BS:14:VAL:N	2.00	0.73
55:BW:52:GLU:C	55:BW:54:ALA:H	1.95	0.73
1:CA:614:A:O2'	1:CA:615:C:H5'	1.88	0.73
1:CA:742:G:H5''	15:CO:58:MET:HE1	1.70	0.73
2:CB:134:GLU:C	2:CB:136:VAL:H	1.94	0.73
28:D2:53:LEU:HA	28:D2:56:GLN:HB2	1.68	0.73
29:D3:1:MET:SD	29:D3:40:THR:HG22	2.28	0.73
32:D6:15:GLU:CD	32:D6:18:ARG:CZ	2.61	0.73
36:DA:1901:A:O2'	36:DA:1902:C:H5'	1.88	0.73
36:DA:2681:C:H6	36:DA:2683:C:H41	1.34	0.73
41:DF:57:VAL:HG12	41:DF:58:ALA:N	2.03	0.73
43:DH:61:HIS:C	43:DH:63:SER:H	1.94	0.73
57:DY:13:VAL:HG13	57:DY:14:LEU:N	2.03	0.73
58:DZ:51:ALA:HA	58:DZ:55:HIS:CD2	2.23	0.73
1:AA:473:G:H5''	16:AP:81:ARG:CZ	2.18	0.73
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.23	0.73
2:AB:169:LYS:HB3	2:AB:170:GLU:OE2	1.89	0.73
12:AL:83:VAL:HG11	12:AL:100:ILE:HG12	1.71	0.73
20:AT:14:LYS:O	20:AT:18:GLN:HB2	1.88	0.73
22:AV:74:C:N4	36:BA:2252:G:H1	1.86	0.73
26:B0:43:THR:HG22	36:BA:2331:G:O2'	1.87	0.73
36:BA:145:G:C2'	36:BA:146:G:H5''	2.18	0.73
36:BA:814:C:O2'	36:BA:815:C:H5'	1.88	0.73
36:BA:1518:U:H2'	36:BA:1519:G:O4'	1.87	0.73
36:BA:2036:C:H6	36:BA:2036:C:H5'	1.52	0.73
36:BA:2443:C:O2'	36:BA:2444:G:H5'	1.87	0.73
39:BD:166:GLN:HA	39:BD:166:GLN:NE2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:84:VAL:HG12	41:BF:85:GLY:N	2.03	0.73
42:BG:51:ARG:HE	42:BG:51:ARG:HA	1.52	0.73
53:BU:92:ARG:HD2	54:BV:11:GLN:CG	2.18	0.73
56:BX:65:ARG:HG2	56:BX:66:LEU:N	2.01	0.73
57:BY:13:VAL:HG13	57:BY:14:LEU:N	2.01	0.73
1:CA:688:G:H2'	1:CA:689:C:C6	2.24	0.73
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.69	0.73
7:CG:70:LYS:C	7:CG:138:LYS:HE3	2.13	0.73
14:CN:13:THR:N	14:CN:14:PRO:CD	2.51	0.73
25:CZ:277:LEU:CD1	25:CZ:280:GLY:H	2.01	0.73
35:D9:30:PRO:HB2	36:DA:2527:C:H4'	1.69	0.73
36:DA:761:A:H8	36:DA:761:A:O5'	1.71	0.73
36:DA:996:A:O2'	53:DU:92:ARG:HG3	1.88	0.73
36:DA:2359:C:C2'	36:DA:2360:A:H5'	2.18	0.73
36:DA:2781:A:H5''	36:DA:2782:G:H5'	1.68	0.73
38:DC:6:ARG:HH11	38:DC:6:ARG:HG2	1.51	0.73
42:DG:62:LEU:HD12	42:DG:62:LEU:H	1.52	0.73
42:DG:63:ILE:HG13	42:DG:64:THR:H	1.53	0.73
43:DH:63:SER:O	43:DH:67:LEU:HB2	1.88	0.73
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.18	0.73
2:AB:21:ARG:NE	2:AB:39:ILE:HG12	2.04	0.73
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.24	0.73
29:B3:1:MET:SD	29:B3:40:THR:HG22	2.28	0.73
29:B3:11:SER:HB3	36:BA:988:A:P	2.28	0.73
36:BA:1991:U:H2'	36:BA:1992:G:H5''	1.68	0.73
36:BA:2179:C:H5''	36:BA:2180:U:OP1	1.89	0.73
40:BE:111:ARG:HA	50:BR:2:ARG:HG2	1.69	0.73
42:BG:135:LEU:O	42:BG:154:GLY:HA3	1.87	0.73
48:BP:85:LEU:HD23	48:BP:115:LEU:O	1.89	0.73
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.88	0.73
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.01	0.73
1:CA:125:U:H2'	1:CA:126:G:C8	2.23	0.73
1:CA:373:A:O2'	1:CA:374:A:H5'	1.89	0.73
1:CA:1425:U:H2'	1:CA:1426:C:C6	2.22	0.73
22:CW:1:G:N3	22:CW:1:G:H2'	2.02	0.73
26:D0:43:THR:HG22	36:DA:2331:G:O2'	1.89	0.73
32:D6:42:TRP:C	32:D6:44:ARG:H	1.96	0.73
36:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.88	0.73
36:DA:723:G:H2'	36:DA:724:U:C6	2.23	0.73
36:DA:903:C:H2'	36:DA:904:C:C6	2.24	0.73
36:DA:2029:G:H5''	36:DA:2030:A:OP2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2306:C:H4'	42:DG:136:ARG:HH12	1.54	0.73
51:DS:56:LEU:HD22	51:DS:58:LEU:HD22	1.71	0.73
1:AA:1060:C:O2'	1:AA:1061:G:H5'	1.87	0.73
1:AA:1512:U:H3	1:AA:1523:G:H1	1.37	0.73
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.04	0.73
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	1.69	0.73
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.70	0.73
5:AE:94:ALA:HB3	5:AE:117:ASP:O	1.88	0.73
7:AG:144:MET:HE1	22:AW:31:A:H1'	1.70	0.73
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.17	0.73
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.71	0.73
25:AZ:271:GLU:O	25:AZ:286:VAL:HG23	1.88	0.73
35:B9:10:ILE:H	35:B9:10:ILE:CD1	1.97	0.73
36:BA:723:G:H2'	36:BA:724:U:C6	2.24	0.73
36:BA:1667:G:OP2	36:BA:1667:G:H8	1.72	0.73
36:BA:2053:G:N2	36:BA:2054:A:H1'	2.04	0.73
39:BD:136:ILE:HG22	39:BD:140:THR:OG1	1.89	0.73
51:BS:101:LEU:HD12	51:BS:101:LEU:O	1.89	0.73
52:BT:58:ASN:HD22	52:BT:58:ASN:N	1.84	0.73
1:CA:219:C:H2'	1:CA:220:G:O4'	1.89	0.73
1:CA:321:A:H4'	1:CA:1436:U:H5'	1.71	0.73
1:CA:401:C:H2'	1:CA:402:G:H8	1.53	0.73
1:CA:1333:A:H2'	1:CA:1334:G:O4'	1.87	0.73
25:CZ:338:TYR:CD2	25:CZ:340:PRO:HD3	2.24	0.73
31:D5:42:PRO:HB2	36:DA:2815:C:O2'	1.89	0.73
36:DA:1539:G:C2	36:DA:1540:U:H1'	2.23	0.73
36:DA:2048:G:H1	36:DA:2620:C:H42	1.36	0.73
36:DA:2771:C:O2'	40:DE:168:MET:HE1	1.88	0.73
42:DG:7:LEU:HD13	42:DG:100:TRP:CE3	2.23	0.73
42:DG:119:GLY:HA3	42:DG:181:ARG:CA	2.18	0.73
50:DR:103:ARG:HH11	50:DR:110:PRO:HD3	1.53	0.73
55:DW:6:ILE:HG12	55:DW:104:THR:HG22	1.70	0.73
1:AA:601:C:H2'	1:AA:602:A:H8	1.53	0.73
1:AA:1118:C:H1'	1:AA:1179:A:C5	2.23	0.73
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.23	0.73
1:AA:1380:U:H4'	1:AA:1381:U:O5'	1.88	0.73
4:AD:114:ARG:HH11	4:AD:114:ARG:HG3	1.52	0.73
7:AG:72:ARG:CG	7:AG:73:MET:HG3	2.18	0.73
18:AR:53:ARG:C	18:AR:55:ARG:H	1.97	0.73
25:AZ:277:LEU:CD1	25:AZ:280:GLY:H	2.00	0.73
36:BA:626:U:N3	48:BP:105:LEU:HG	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1170:G:N2	36:BA:1179:C:H42	1.87	0.73
36:BA:1568:G:H5''	39:BD:61:LEU:HD23	1.69	0.73
37:BB:17:C:N4	37:BB:68:C:H42	1.87	0.73
38:BC:4:GLY:O	38:BC:8:ARG:HG3	1.88	0.73
39:BD:8:PRO:HB3	39:BD:14:ARG:CB	2.18	0.73
42:BG:37:VAL:HG23	42:BG:99:MET:HG3	1.70	0.73
48:BP:62:LEU:N	48:BP:62:LEU:CD2	2.52	0.73
1:CA:819:A:H4'	1:CA:820:U:OP2	1.89	0.73
1:CA:993:G:H22	1:CA:1046:A:H1'	1.53	0.73
3:CC:52:LEU:H	3:CC:52:LEU:HD23	1.52	0.73
13:CM:94:ARG:HG2	19:CS:82:GLY:N	2.04	0.73
18:CR:88:LYS:C	18:CR:88:LYS:HD3	2.13	0.73
25:CZ:234:ARG:HD2	25:CZ:289:LEU:HD22	1.70	0.73
27:D1:49:VAL:HG21	27:D1:71:TYR:HE1	1.54	0.73
36:DA:106:C:H2'	36:DA:107:C:C6	2.23	0.73
36:DA:1095:A:H2'	36:DA:1096:A:C8	2.24	0.73
36:DA:1690:A:H2'	36:DA:1691:C:H5'	1.69	0.73
47:DO:112:MET:HA	47:DO:112:MET:HE2	1.69	0.73
54:DV:28:GLU:O	54:DV:61:VAL:HG21	1.88	0.73
1:AA:306:G:O2'	1:AA:307:C:H5'	1.89	0.73
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.23	0.73
3:AC:148:GLY:HA3	3:AC:172:ARG:O	1.88	0.73
11:AK:17:GLY:HA3	11:AK:77:MET:SD	2.29	0.73
34:B8:28:GLY:HA2	34:B8:32:LEU:CD2	2.18	0.73
36:BA:673:C:O2'	36:BA:674:G:H5'	1.89	0.73
36:BA:1327:C:H42	36:BA:1647:G:N2	1.86	0.73
36:BA:1708:C:H2'	36:BA:1709:U:C6	2.24	0.73
36:BA:1750:G:O2'	36:BA:1751:C:H5'	1.89	0.73
36:BA:2502:G:C5'	36:BA:2503:A:H5''	2.14	0.73
46:BN:58:ASP:C	46:BN:60:ILE:H	1.96	0.73
2:CB:215:LEU:O	2:CB:219:VAL:HG23	1.88	0.73
7:CG:36:LYS:HA	7:CG:39:ALA:HB3	1.71	0.73
12:CL:82:VAL:HG12	12:CL:105:TYR:HD1	1.54	0.73
22:CV:21:A:O2'	22:CV:22:G:H5''	1.89	0.73
30:D4:42:PHE:O	30:D4:42:PHE:CG	2.42	0.73
36:DA:271(E):U:H2'	36:DA:271(F):C:C6	2.24	0.73
36:DA:711:G:H1	36:DA:720:C:H42	1.35	0.73
36:DA:979:G:H8	36:DA:979:G:O5'	1.72	0.73
36:DA:1099:G:H2'	36:DA:1100:C:C6	2.23	0.73
39:DD:81:ALA:HA	39:DD:113:VAL:CG2	2.19	0.73
40:DE:111:ARG:HA	50:DR:2:ARG:CG	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:135:LEU:O	42:DG:154:GLY:HA3	1.89	0.73
43:DH:85:LYS:HE2	43:DH:85:LYS:C	2.13	0.73
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	2.04	0.73
1:AA:851:G:H2'	1:AA:852:G:H8	1.53	0.73
1:AA:1047:G:H1	1:AA:1210:C:H42	1.35	0.73
1:AA:1525:G:O2'	1:AA:1526:G:H5'	1.89	0.73
2:AB:87:ARG:HE	2:AB:233:SER:CB	2.00	0.73
22:AW:74:C:H5'	22:AW:75:C:OP2	1.89	0.73
25:AZ:338:TYR:CD2	25:AZ:340:PRO:HD3	2.24	0.73
36:BA:811:U:OP2	48:BP:24:GLY:HA2	1.88	0.73
36:BA:1165:U:H2'	36:BA:1166:C:C6	2.23	0.73
36:BA:1822:G:H2'	36:BA:1823:G:H8	1.54	0.73
43:BH:102:ALA:HA	43:BH:117:PRO:HD3	1.70	0.73
57:BY:37:VAL:O	57:BY:38:ILE:HB	1.87	0.73
1:CA:734:G:O2'	1:CA:735:C:H5'	1.89	0.73
1:CA:1442(A):G:H5''	52:DT:118:ARG:NH1	2.04	0.73
4:CD:15:GLU:O	4:CD:17:VAL:HG23	1.88	0.73
7:CG:69:VAL:O	7:CG:69:VAL:HG13	1.88	0.73
27:D1:80:LEU:HD23	27:D1:81:LYS:H	1.54	0.73
28:D2:59:ARG:O	28:D2:63:VAL:HG23	1.89	0.73
32:D6:36:LEU:HB2	32:D6:50:ARG:NH1	2.04	0.73
36:DA:2101:G:H2'	36:DA:2102:U:H5''	1.71	0.73
43:DH:118:PRO:HG3	43:DH:121:ILE:HD12	1.70	0.73
1:AA:8:A:OP2	1:AA:8:A:H2'	1.89	0.73
1:AA:818:G:O2'	1:AA:819:A:H5'	1.89	0.73
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.70	0.73
14:AN:59:ALA:HB1	14:AN:61:TRP:HZ3	1.54	0.73
20:AT:65:LYS:HA	20:AT:68:LYS:HG3	1.71	0.73
24:AY:9:A:N6	24:AY:23:A:H62	1.87	0.73
33:B7:21:ARG:HG2	33:B7:21:ARG:NH1	2.02	0.73
36:BA:449:A:C4'	53:BU:3:ARG:HH21	2.02	0.73
36:BA:608:A:H2'	36:BA:609:A:C8	2.23	0.73
36:BA:1175:U:O3'	36:BA:1176:G:H3'	1.89	0.73
36:BA:2040:C:H2'	36:BA:2041:U:C6	2.24	0.73
36:BA:2240:C:O2'	36:BA:2241:A:H5'	1.88	0.73
36:BA:2854:G:H2'	36:BA:2855:C:C6	2.23	0.73
49:BQ:39:PRO:HG3	49:BQ:99:PRO:HD2	1.70	0.73
51:BS:67:ARG:HH21	51:BS:100:ALA:CB	2.02	0.73
27:D1:3:LYS:HG2	27:D1:4:VAL:HG12	1.70	0.73
36:DA:2553:G:H2'	36:DA:2554:U:O4'	1.89	0.73
37:DB:34:U:H4'	37:DB:35:U:H5	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:8:PRO:HB3	39:DD:14:ARG:CB	2.19	0.73
39:DD:131:LEU:HD13	39:DD:136:ILE:HD11	1.69	0.73
40:DE:4:ILE:HG13	40:DE:31:CYS:SG	2.29	0.73
51:DS:13:ARG:HG3	51:DS:14:VAL:N	1.99	0.73
58:DZ:70:LEU:HD21	58:DZ:91:LEU:CD2	2.18	0.73
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.24	0.72
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	1.89	0.72
25:AZ:339:ARG:NE	25:AZ:352:VAL:HG22	2.03	0.72
36:BA:197:A:H5'	36:BA:197:A:C8	2.24	0.72
36:BA:958:U:H5''	49:BQ:14:ARG:HD3	1.70	0.72
36:BA:1658:C:H2'	36:BA:1659:U:C6	2.23	0.72
36:BA:2110:G:H1	36:BA:2178:C:H41	1.36	0.72
36:BA:2262:U:H2'	36:BA:2263:C:H6	1.53	0.72
36:BA:2282:G:H21	36:BA:2390:U:H3	1.35	0.72
40:BE:77:ILE:HG22	40:BE:78:LEU:N	2.03	0.72
41:BF:24:LEU:CB	41:BF:25:PRO:HD2	2.18	0.72
46:BN:3:THR:HG22	46:BN:4:TYR:N	2.04	0.72
46:BN:40:PRO:CB	53:BU:68:ALA:HB2	2.19	0.72
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.69	0.72
1:CA:601:C:H2'	1:CA:602:A:H8	1.53	0.72
1:CA:1190:G:OP1	3:CC:4:LYS:HA	1.88	0.72
5:CE:64:ARG:CA	5:CE:66:MET:HE2	2.19	0.72
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.89	0.72
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.03	0.72
27:D1:95:LEU:HG	27:D1:95:LEU:O	1.89	0.72
36:DA:20:C:H2'	36:DA:21:A:H8	1.54	0.72
36:DA:377:C:H2'	36:DA:378:C:C6	2.24	0.72
36:DA:619:G:H3'	36:DA:620:G:H21	1.54	0.72
36:DA:1231:G:H2'	36:DA:1232:G:C8	2.23	0.72
36:DA:2147:G:H2'	36:DA:2148:G:O4'	1.89	0.72
39:DD:63:ARG:HH11	39:DD:63:ARG:HG3	1.53	0.72
39:DD:91:ARG:HG2	39:DD:91:ARG:HH11	1.54	0.72
39:DD:248:SER:HB2	39:DD:249:PRO:HD2	1.71	0.72
41:DF:160:ASN:ND2	41:DF:162:LEU:HD13	2.03	0.72
58:DZ:85:HIS:CD2	58:DZ:86:VAL:N	2.57	0.72
58:DZ:145:GLU:HG3	58:DZ:146:ILE:H	1.53	0.72
1:AA:20:U:H2'	1:AA:21:G:O4'	1.89	0.72
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.24	0.72
12:AL:37:CYS:HB2	12:AL:81:SER:O	1.88	0.72
12:AL:110:VAL:O	12:AL:122:THR:HB	1.89	0.72
17:AQ:29:HIS:CE1	17:AQ:31:LEU:H	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.13	0.72
20:AT:50:GLU:HB2	20:AT:100:ILE:HD13	1.69	0.72
27:B1:66:HIS:C	27:B1:68:PRO:HD2	2.14	0.72
30:B4:5:ILE:O	30:B4:5:ILE:HG12	1.88	0.72
36:BA:270:A:O2'	36:BA:271:A:H5'	1.89	0.72
36:BA:272(H):C:C2'	36:BA:272(I):U:H5''	2.18	0.72
36:BA:487:C:H1'	55:BW:53:SER:HA	1.71	0.72
36:BA:570:G:H2'	36:BA:2030:A:N7	2.04	0.72
36:BA:2101:G:H2'	36:BA:2102:U:H5''	1.71	0.72
36:BA:2463:C:O2'	36:BA:2464:C:H5'	1.87	0.72
39:BD:8:PRO:HB3	39:BD:14:ARG:HB2	1.70	0.72
39:BD:270:ILE:HD12	39:BD:270:ILE:O	1.88	0.72
55:BW:41:LYS:C	55:BW:43:GLY:H	1.96	0.72
1:CA:412:A:H4'	1:CA:413:G:H8	1.54	0.72
6:CF:87:ARG:HG2	6:CF:87:ARG:HH11	1.55	0.72
12:CL:55:VAL:HG21	12:CL:67:THR:HG22	1.68	0.72
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.04	0.72
22:CV:68:C:H2'	22:CV:69:G:C5'	2.18	0.72
25:CZ:258:LEU:HD23	25:CZ:376:LYS:HB3	1.69	0.72
31:D5:43:HIS:CE1	36:DA:2816:C:H1'	2.25	0.72
34:D8:28:GLY:HA2	34:D8:32:LEU:CD2	2.18	0.72
36:DA:1435:G:H1	36:DA:1557:C:H42	1.37	0.72
36:DA:1498:C:C2'	36:DA:1499:C:H5''	2.18	0.72
36:DA:2053:G:N2	36:DA:2054:A:H1'	2.04	0.72
38:DC:183:GLU:H	38:DC:183:GLU:CD	1.95	0.72
39:DD:186:HIS:HB3	39:DD:189:CYS:SG	2.29	0.72
41:DF:28:ILE:HD13	41:DF:28:ILE:H	1.54	0.72
42:DG:141:PHE:HB2	42:DG:144:ILE:HG22	1.71	0.72
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.05	0.72
48:DP:111:ARG:NH1	48:DP:149:GLU:HG3	2.03	0.72
52:DT:53:ARG:HB3	52:DT:53:ARG:HH11	1.51	0.72
52:DT:107:ASP:CG	52:DT:109:GLU:H	1.97	0.72
53:DU:42:ALA:HA	53:DU:45:TYR:HB2	1.71	0.72
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.72	0.72
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.24	0.72
1:AA:1493:A:N1	24:AY:36:U:O2'	2.19	0.72
5:AE:12:LEU:O	5:AE:13:ILE:HG13	1.89	0.72
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.71	0.72
7:AG:105:VAL:O	7:AG:106:GLN:C	2.32	0.72
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.24	0.72
18:AR:88:LYS:HD3	18:AR:88:LYS:C	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:15:GLU:HA	32:B6:49:HIS:CE1	2.24	0.72
36:BA:571:A:O2'	36:BA:572:A:H5''	1.89	0.72
37:BB:81:G:H2'	37:BB:82:G:H5'	1.71	0.72
53:BU:92:ARG:HD2	54:BV:11:GLN:HG2	1.71	0.72
1:CA:920:U:H1'	1:CA:1080:A:C2	2.25	0.72
2:CB:177:ALA:HA	2:CB:182:ILE:HD12	1.69	0.72
31:D5:49:CYS:SG	31:D5:50:GLY:N	2.59	0.72
35:D9:4:ARG:HB2	36:DA:2466:C:OP1	1.89	0.72
35:D9:24:TYR:O	35:D9:25:VAL:HG23	1.89	0.72
36:DA:364:C:O2	36:DA:364:C:H2'	1.88	0.72
36:DA:398:G:H2'	36:DA:399:G:C8	2.25	0.72
36:DA:747:U:H5	36:DA:2613:U:C5	2.08	0.72
36:DA:864:G:H1'	36:DA:914:C:H42	1.54	0.72
36:DA:2827:C:H2'	36:DA:2828:C:C6	2.25	0.72
42:DG:29:TRP:HA	42:DG:29:TRP:HE3	1.52	0.72
42:DG:36:LYS:HG2	42:DG:37:VAL:N	2.02	0.72
47:DO:76:ALA:HB3	52:DT:75:ILE:HD13	1.68	0.72
48:DP:110:TYR:CD1	48:DP:111:ARG:HD2	2.25	0.72
57:DY:82:PRO:O	57:DY:96:ILE:HG22	1.90	0.72
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.72	0.72
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.72	0.72
3:AC:142:MET:C	3:AC:144:SER:H	1.97	0.72
8:AH:14:ARG:HG3	8:AH:83:ILE:CG2	2.18	0.72
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.03	0.72
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.04	0.72
20:AT:59:ALA:O	20:AT:63:ILE:HG13	1.89	0.72
28:B2:47:ASN:HD22	36:BA:94(A):G:H21	1.35	0.72
34:B8:50:LEU:HD12	34:B8:51:ALA:N	2.02	0.72
36:BA:1095:A:H2'	36:BA:1096:A:C8	2.22	0.72
36:BA:1251:C:OP2	53:BU:10:ARG:NE	2.23	0.72
36:BA:1927:A:H2'	36:BA:1928:A:C8	2.25	0.72
36:BA:2150:U:H2'	36:BA:2151:G:C8	2.24	0.72
36:BA:2195:C:O2'	36:BA:2196:C:H5'	1.89	0.72
41:BF:153:SER:HA	41:BF:172:TRP:CB	2.19	0.72
42:BG:80:PHE:O	42:BG:81:LYS:HB2	1.86	0.72
1:CA:473:G:H5''	16:CP:81:ARG:CZ	2.18	0.72
4:CD:19:LEU:O	4:CD:31:CYS:SG	2.48	0.72
17:CQ:34:LYS:HG2	17:CQ:35:VAL:H	1.54	0.72
36:DA:227:A:C5'	48:DP:76:LYS:HE3	2.16	0.72
36:DA:626:U:N3	48:DP:105:LEU:HG	2.04	0.72
36:DA:2523:G:H2'	36:DA:2524:G:C5'	2.12	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2773:C:H5''	40:DE:164:ARG:CG	2.19	0.72
40:DE:52:LEU:CB	40:DE:76:ARG:HB2	2.20	0.72
46:DN:10:GLU:CG	46:DN:11:PRO:HD2	2.19	0.72
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.03	0.72
51:DS:89:ARG:HE	51:DS:91:PRO:HG2	1.54	0.72
55:DW:14:PRO:HG3	55:DW:101:SER:OG	1.89	0.72
6:AF:48:LEU:HB2	6:AF:56:PRO:O	1.90	0.72
7:AG:69:VAL:HG11	7:AG:104:LEU:CD2	2.19	0.72
32:B6:36:LEU:HB2	32:B6:50:ARG:NH1	2.04	0.72
34:B8:19:SER:HB2	36:BA:651:G:OP1	1.90	0.72
34:B8:24:ALA:HA	34:B8:46:ARG:HH11	1.53	0.72
36:BA:669:G:N3	36:BA:669:G:H2'	2.04	0.72
36:BA:768:G:H2'	36:BA:769:G:C8	2.25	0.72
36:BA:803:U:H2'	36:BA:804:A:H5'	1.71	0.72
36:BA:2048:G:H1	36:BA:2620:C:H42	1.37	0.72
37:BB:75:G:H5'	37:BB:76:G:OP2	1.90	0.72
49:BQ:44:ALA:O	49:BQ:47:ILE:HB	1.90	0.72
51:BS:89:ARG:HE	51:BS:91:PRO:HG2	1.55	0.72
56:BX:8:ILE:HD11	56:BX:43:VAL:HG22	1.71	0.72
58:BZ:81:ARG:HB2	58:BZ:81:ARG:NH1	2.03	0.72
1:CA:250:A:H4'	1:CA:251:G:O5'	1.89	0.72
1:CA:1323:G:O2'	1:CA:1324:A:H5'	1.89	0.72
13:CM:52:GLU:HG2	13:CM:55:ARG:HH11	1.55	0.72
25:CZ:20:VAL:HA	25:CZ:24:LYS:HZ1	1.54	0.72
32:D6:11:LEU:HD21	32:D6:52:VAL:H	1.54	0.72
32:D6:52:VAL:CG1	32:D6:53:LYS:N	2.53	0.72
36:DA:329:G:N7	57:DY:71:LYS:HE3	2.05	0.72
36:DA:1350:C:H2'	36:DA:1351:C:H6	1.54	0.72
42:DG:130:ASN:ND2	42:DG:160:VAL:HG13	2.03	0.72
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.00	0.72
52:DT:38:ASN:C	52:DT:38:ASN:ND2	2.47	0.72
1:AA:100:C:H2'	1:AA:101:A:C8	2.24	0.72
1:AA:1054:C:H3'	1:AA:1054:C:O2	1.89	0.72
1:AA:1333:A:H2'	1:AA:1334:G:O4'	1.89	0.72
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.71	0.72
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	2.00	0.72
12:AL:45:PRO:HD3	12:AL:51:ALA:O	1.89	0.72
13:AM:57:ARG:HG2	13:AM:61:GLU:HB2	1.70	0.72
20:AT:44:ALA:HB1	20:AT:88:VAL:HG13	1.71	0.72
22:AW:1:G:N3	22:AW:1:G:H2'	2.04	0.72
36:BA:811:U:C5	48:BP:24:GLY:HA3	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1041:C:O2'	36:BA:1042:G:H5'	1.89	0.72
36:BA:2147:G:H2'	36:BA:2148:G:O4'	1.90	0.72
36:BA:2653:U:H3'	36:BA:2654:A:H8	1.54	0.72
36:BA:2773:C:H5''	40:BE:164:ARG:CG	2.19	0.72
39:BD:35:LYS:HZ3	39:BD:36:PRO:HD3	1.53	0.72
55:BW:20:VAL:HG23	55:BW:47:VAL:HG21	1.71	0.72
58:BZ:51:ALA:CB	58:BZ:57:ILE:HD11	2.19	0.72
1:CA:1337:G:H5''	1:CA:1338:G:OP1	1.90	0.72
4:CD:67:ILE:HG22	4:CD:68:TYR:CE1	2.24	0.72
24:CY:40:G:C2'	24:CY:41:G:H5''	2.17	0.72
35:D9:7:VAL:HG21	35:D9:36:GLN:HB2	1.71	0.72
36:DA:270:A:O2'	36:DA:271:A:H5'	1.89	0.72
36:DA:1327:C:H42	36:DA:1647:G:H21	1.35	0.72
36:DA:2305:A:N6	42:DG:43:LEU:HD13	2.05	0.72
36:DA:2712:U:H1'	36:DA:2712(A):A:N7	2.04	0.72
46:DN:38:HIS:C	53:DU:67:ALA:HB1	2.15	0.72
56:DX:36:LYS:CA	56:DX:39:ILE:HB	2.15	0.72
1:AA:819:A:H4'	1:AA:820:U:OP2	1.89	0.72
1:AA:1202:G:H4'	14:AN:29:ARG:HD3	1.70	0.72
2:AB:9:GLU:OE2	2:AB:9:GLU:N	2.22	0.72
22:AV:56:C:O4'	42:BG:76:SER:HB2	1.89	0.72
25:AZ:347:THR:HG22	25:AZ:348:ASP:N	2.05	0.72
27:B1:88:LYS:C	27:B1:88:LYS:HD3	2.14	0.72
32:B6:19:ARG:HG3	32:B6:20:ASN:N	2.04	0.72
36:BA:1170:G:H1	36:BA:1179:C:N4	1.88	0.72
36:BA:1243:G:C2'	36:BA:1244:G:H5''	2.19	0.72
36:BA:2311:A:N1	42:BG:80:PHE:HB3	2.05	0.72
36:BA:2350:C:H2'	36:BA:2351:G:O4'	1.89	0.72
41:BF:28:ILE:HD13	41:BF:28:ILE:H	1.53	0.72
43:BH:87:LEU:HD23	43:BH:164:TYR:HA	1.72	0.72
48:BP:110:TYR:CD1	48:BP:111:ARG:HD2	2.24	0.72
1:CA:967:C:H2'	1:CA:968:A:C8	2.25	0.72
1:CA:1054:C:C6	1:CA:1196:U:C4	2.77	0.72
13:CM:7:VAL:CG2	42:DG:115:ARG:HA	2.20	0.72
28:D2:69:ARG:HH22	36:DA:111:A:H4'	1.54	0.72
31:D5:4:HIS:C	36:DA:2056:G:H1	1.97	0.72
32:D6:7:ILE:HG22	32:D6:7:ILE:O	1.89	0.72
34:D8:52:LYS:N	34:D8:53:PRO:HD2	2.04	0.72
36:DA:996:A:N6	36:DA:1160:G:C6	2.58	0.72
36:DA:1170:G:N2	36:DA:1179:C:H42	1.86	0.72
36:DA:1473:G:C2	36:DA:1474:C:H1'	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2311:A:H2	42:DG:77:ILE:HG21	1.54	0.72
37:DB:7:G:C3'	37:DB:8:U:H5''	2.19	0.72
40:DE:64:LYS:HG2	40:DE:66:HIS:HB2	1.70	0.72
41:DF:53:THR:HG23	41:DF:55:GLY:H	1.55	0.72
50:DR:100:LEU:N	50:DR:100:LEU:HD22	2.05	0.72
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.03	0.72
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.70	0.72
22:AW:57:G:H2'	22:AW:58:A:H5'	1.70	0.72
25:AZ:360:GLU:O	25:AZ:362:VAL:HG23	1.90	0.72
35:B9:7:VAL:HG21	35:B9:36:GLN:HB2	1.72	0.72
36:BA:20:C:H2'	36:BA:21:A:H8	1.54	0.72
36:BA:310:A:P	57:BY:18:GLY:HA2	2.29	0.72
36:BA:1657:C:O2'	36:BA:1658:C:H5'	1.90	0.72
36:BA:2039:C:H2'	36:BA:2040:C:C6	2.25	0.72
36:BA:2157:G:O2'	36:BA:2158:A:H5'	1.89	0.72
36:BA:2249:U:H4'	36:BA:2275:C:C5	2.25	0.72
36:BA:2681:C:H6	36:BA:2683:C:H41	1.35	0.72
36:BA:2839:G:H1	36:BA:2878:U:H3	1.37	0.72
37:BB:51:G:H2'	37:BB:52:A:C8	2.24	0.72
41:BF:64:ILE:HG23	41:BF:65:TRP:N	2.02	0.72
42:BG:180:PHE:HB2	42:BG:182:LYS:HZ3	1.55	0.72
49:BQ:74:TYR:HD1	49:BQ:75:THR:H	1.38	0.72
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.71	0.72
1:CA:1049:U:H2'	14:CN:2:ALA:N	2.05	0.72
1:CA:1359:C:P	14:CN:22:THR:HG21	2.30	0.72
7:CG:133:GLY:O	7:CG:136:LYS:HB2	1.89	0.72
16:CP:45:THR:C	16:CP:47:ASP:H	1.98	0.72
36:DA:76:C:H2'	36:DA:77:C:H6	1.55	0.72
36:DA:265:A:H4'	36:DA:266:G:O5'	1.89	0.72
36:DA:1639:U:H2'	36:DA:1640:C:H5''	1.72	0.72
36:DA:1822:G:H2'	36:DA:1823:G:H8	1.54	0.72
36:DA:2074:U:H2'	36:DA:2075:U:C6	2.24	0.72
36:DA:2802:G:C3'	36:DA:2803:C:H5''	2.19	0.72
39:DD:35:LYS:HB3	39:DD:35:LYS:HZ2	1.54	0.72
41:DF:158:THR:HA	41:DF:198:ALA:HB2	1.72	0.72
25:AZ:255:ILE:HG12	25:AZ:304:LEU:HD22	1.72	0.72
26:B0:34:GLY:HA3	36:BA:2353:G:H1'	1.72	0.72
36:BA:57:C:O2'	36:BA:58:G:H5'	1.90	0.72
36:BA:440:G:N2	41:BF:46:ARG:HH21	1.87	0.72
36:BA:584:C:H2'	36:BA:585:G:H5'	1.72	0.72
36:BA:1162:G:H4'	54:BV:24:LYS:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1681:G:O2'	36:BA:1762:A:H2'	1.90	0.72
36:BA:1690:A:H2'	36:BA:1691:C:H5'	1.70	0.72
37:BB:15:A:H1'	37:BB:110:G:C6	2.25	0.72
47:BO:7:TYR:CE1	47:BO:20:MET:HE3	2.24	0.72
49:BQ:70:PRO:O	49:BQ:93:TYR:HB3	1.90	0.72
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.19	0.72
58:BZ:146:ILE:HA	58:BZ:174:VAL:CG1	2.20	0.72
1:CA:80:G:C3'	1:CA:81:U:H5'	2.20	0.72
1:CA:858:G:C6	1:CA:869:G:N7	2.58	0.72
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.25	0.72
1:CA:1320:C:H5''	19:CS:70:LYS:HG3	1.72	0.72
3:CC:153:VAL:O	3:CC:154:SER:HB3	1.90	0.72
14:CN:7:ILE:O	14:CN:11:LYS:HG3	1.89	0.72
25:CZ:132:VAL:HG13	25:CZ:169:PRO:HB2	1.70	0.72
36:DA:203:C:H3'	36:DA:204:A:H5''	1.72	0.72
36:DA:2175:C:H5'	38:DC:219:GLY:O	1.89	0.72
36:DA:2514:U:H2'	36:DA:2515:C:C6	2.25	0.72
38:DC:94:VAL:CG1	38:DC:95:GLY:H	1.94	0.72
51:DS:51:ALA:HB2	51:DS:73:LEU:HG	1.72	0.72
1:AA:390:C:H4'	16:AP:28:ARG:HH11	1.53	0.72
1:AA:574:A:N3	1:AA:883:C:H1'	2.05	0.72
1:AA:621:A:O2'	1:AA:622:A:H5'	1.90	0.72
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.90	0.72
3:AC:8:ILE:HG13	3:AC:184:TYR:HB3	1.72	0.72
4:AD:15:GLU:O	4:AD:17:VAL:HG23	1.89	0.72
7:AG:31:MET:O	7:AG:32:ARG:HG3	1.89	0.72
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.05	0.72
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.90	0.72
25:AZ:164:PRO:O	25:AZ:168:VAL:HG23	1.90	0.72
32:B6:42:TRP:C	32:B6:44:ARG:H	1.97	0.72
33:B7:12:ARG:HG3	36:BA:686:G:O6	1.90	0.72
36:BA:1231:G:H2'	36:BA:1232:G:H8	1.52	0.72
36:BA:1246:A:H2'	36:BA:1247:A:H5'	1.70	0.72
36:BA:1327:C:H42	36:BA:1647:G:H21	1.37	0.72
36:BA:2482:G:H22	49:BQ:52:VAL:CG1	2.01	0.72
39:BD:35:LYS:NZ	39:BD:36:PRO:HD3	2.05	0.72
40:BE:64:LYS:HG2	40:BE:66:HIS:HB2	1.71	0.72
43:BH:20:ALA:HB1	43:BH:21:PRO:CD	2.20	0.72
43:BH:85:LYS:HE2	43:BH:85:LYS:C	2.14	0.72
48:BP:75:ILE:HD12	48:BP:75:ILE:N	2.05	0.72
48:BP:111:ARG:NH1	48:BP:149:GLU:HG3	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:77:ALA:C	51:BS:79:ALA:H	1.96	0.72
53:BU:95:LEU:HD12	54:BV:11:GLN:HE21	1.54	0.72
54:BV:39:LEU:N	54:BV:39:LEU:HD22	2.05	0.72
1:CA:711:G:H2'	1:CA:712:A:C8	2.24	0.72
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.72	0.72
34:D8:24:ALA:HA	34:D8:46:ARG:NH1	2.05	0.72
36:DA:691:C:O2'	36:DA:692:C:H5'	1.89	0.72
36:DA:1062:G:C2	36:DA:1063:G:H1'	2.25	0.72
36:DA:1335:U:H2'	36:DA:1336:A:C8	2.25	0.72
36:DA:1693:U:H5'	36:DA:1693:U:H6	1.54	0.72
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	1.71	0.72
47:DO:64:ARG:HH21	47:DO:100:GLY:HA3	1.55	0.72
56:DX:76:ARG:HD3	56:DX:76:ARG:N	2.05	0.72
1:AA:552:U:H2'	1:AA:553:A:C8	2.25	0.71
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.24	0.71
1:AA:1505:G:H4'	1:AA:1506:U:H5'	1.72	0.71
36:BA:996:A:O2'	53:BU:92:ARG:HG3	1.90	0.71
36:BA:1817:G:O2'	36:BA:1818:U:H5'	1.90	0.71
36:BA:2721:A:H2'	36:BA:2722:G:H8	1.55	0.71
37:BB:65:C:H2'	37:BB:109:C:H41	1.54	0.71
37:BB:106:G:H2'	37:BB:107:G:C8	2.24	0.71
40:BE:78:LEU:HD12	40:BE:78:LEU:O	1.90	0.71
1:CA:1380:U:H4'	1:CA:1381:U:O5'	1.90	0.71
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.25	0.71
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.20	0.71
36:DA:686:G:N2	36:DA:788:A:H61	1.88	0.71
36:DA:2110:G:H1	36:DA:2178:C:H41	1.34	0.71
36:DA:2144:U:H2'	36:DA:2146:C:C5	2.24	0.71
36:DA:2881:C:H2'	36:DA:2882:A:C8	2.25	0.71
41:DF:64:ILE:CG2	41:DF:65:TRP:H	2.00	0.71
46:DN:3:THR:HG22	46:DN:4:TYR:N	2.02	0.71
51:DS:89:ARG:HG3	51:DS:92:TYR:CA	2.20	0.71
54:DV:39:LEU:N	54:DV:39:LEU:HD22	2.05	0.71
56:DX:8:ILE:O	56:DX:8:ILE:HG22	1.90	0.71
58:DZ:86:VAL:HG12	58:DZ:87:ASP:N	2.02	0.71
1:AA:328:C:H4'	1:AA:329:A:H5'	1.72	0.71
1:AA:624:C:H2'	1:AA:625:G:H8	1.55	0.71
2:AB:237:ALA:O	2:AB:238:LEU:HB3	1.90	0.71
7:AG:36:LYS:HA	7:AG:39:ALA:HB3	1.70	0.71
20:AT:83:ARG:HA	20:AT:86:ARG:HB3	1.72	0.71
25:AZ:24:LYS:HG2	62:AZ:501:GDP:O3B	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:40:ARG:HG3	27:B1:41:ARG:N	2.03	0.71
30:B4:5:ILE:O	42:BG:67:LYS:HE2	1.90	0.71
36:BA:76:C:H2'	36:BA:77:C:H6	1.53	0.71
36:BA:272(H):C:H2'	36:BA:272(I):U:C5'	2.20	0.71
36:BA:547:A:H2'	36:BA:548:A:H8	1.55	0.71
40:BE:4:ILE:HG13	40:BE:31:CYS:SG	2.30	0.71
41:BF:29:ASN:O	41:BF:33:LEU:HD23	1.91	0.71
41:BF:139:PHE:CE1	41:BF:143:ALA:HB2	2.25	0.71
50:BR:55:ALA:HA	50:BR:80:PHE:HE1	1.55	0.71
54:BV:69:LYS:HA	54:BV:87:HIS:O	1.90	0.71
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.25	0.71
1:CA:923:A:H5''	5:CE:21:ALA:HB2	1.72	0.71
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.55	0.71
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	1.70	0.71
4:CD:121:VAL:HG12	4:CD:134:ASP:HA	1.71	0.71
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.05	0.71
16:CP:43:LYS:HG2	16:CP:48:TRP:CZ3	2.25	0.71
30:D4:9:LEU:HG	42:DG:98:ARG:HH12	1.54	0.71
36:DA:80:G:O2'	36:DA:81:G:H5'	1.90	0.71
36:DA:449:A:C4'	53:DU:3:ARG:HH21	2.04	0.71
36:DA:1667:G:H8	36:DA:1667:G:OP2	1.73	0.71
36:DA:2408:U:O5'	36:DA:2408:U:H6	1.72	0.71
51:DS:98:VAL:HG12	51:DS:100:ALA:H	1.55	0.71
51:DS:98:VAL:C	51:DS:100:ALA:H	1.98	0.71
1:AA:663:A:O2'	1:AA:664:G:H5'	1.90	0.71
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.25	0.71
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.01	0.71
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.71	0.71
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.72	0.71
4:AD:6:GLY:O	4:AD:8:VAL:HG13	1.89	0.71
12:AL:82:VAL:HG12	12:AL:105:TYR:HD1	1.55	0.71
20:AT:73:HIS:O	20:AT:76:ALA:HB3	1.90	0.71
25:AZ:258:LEU:HD23	25:AZ:376:LYS:HB3	1.71	0.71
28:B2:14:ARG:HH22	36:BA:78:A:H5'	1.55	0.71
36:BA:760:G:H3'	36:BA:761:A:C8	2.26	0.71
36:BA:1842:G:H2'	36:BA:1843:C:C6	2.24	0.71
41:BF:178:PRO:HG2	41:BF:179:GLU:OE1	1.89	0.71
42:BG:20:ILE:HG23	42:BG:25:TYR:HB2	1.72	0.71
47:BO:19:ILE:HG22	47:BO:43:VAL:HA	1.72	0.71
47:BO:114:ILE:H	47:BO:114:ILE:CD1	1.97	0.71
55:BW:1:MET:HG3	55:BW:64:MET:HE3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:73:ARG:HE	57:BY:73:ARG:HA	1.55	0.71
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.25	0.71
36:DA:370:G:H2'	36:DA:423:A:N7	2.04	0.71
36:DA:1092:C:H42	36:DA:1100:C:N4	1.84	0.71
36:DA:1516:C:C3'	36:DA:1517:G:H5''	2.20	0.71
36:DA:2892:A:H62	36:DA:2893:G:N2	1.87	0.71
46:DN:21:LYS:HE3	46:DN:25:ARG:HB3	1.72	0.71
47:DO:11:ALA:CB	47:DO:98:VAL:HG23	2.19	0.71
52:DT:58:ASN:HD22	52:DT:58:ASN:N	1.83	0.71
1:AA:1251:A:O2'	1:AA:1370:G:H5'	1.90	0.71
22:AV:68:C:H2'	22:AV:69:G:C5'	2.19	0.71
24:AY:29:C:H42	24:AY:41:G:H1	1.38	0.71
32:B6:11:LEU:HD21	32:B6:52:VAL:H	1.55	0.71
36:BA:598:G:H5'	48:BP:15:ARG:CD	2.20	0.71
36:BA:601:C:O2	36:BA:605:C:H5''	1.90	0.71
43:BH:42:ARG:O	43:BH:43:VAL:HG13	1.89	0.71
49:BQ:32:TYR:CE2	49:BQ:111:GLU:HG3	2.25	0.71
51:BS:37:ALA:HB2	51:BS:99:LYS:NZ	2.06	0.71
55:BW:6:ILE:HG12	55:BW:104:THR:HG22	1.71	0.71
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.05	0.71
1:CA:346:G:H5'	52:DT:41:ARG:NH2	2.05	0.71
1:CA:1016:A:H2'	1:CA:1017:G:O4'	1.90	0.71
4:CD:20:TYR:HA	4:CD:26:CYS:HB3	1.72	0.71
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.70	0.71
20:CT:83:ARG:HA	20:CT:86:ARG:HB3	1.73	0.71
25:CZ:255:ILE:HG12	25:CZ:304:LEU:HD22	1.72	0.71
25:CZ:360:GLU:O	25:CZ:362:VAL:HG23	1.88	0.71
29:D3:6:VAL:HB	29:D3:54:VAL:CG1	2.20	0.71
32:D6:35:GLU:HG2	32:D6:51:GLU:HG3	1.72	0.71
36:DA:811:U:C5	48:DP:24:GLY:HA3	2.25	0.71
36:DA:1999:C:H2'	36:DA:2000:G:H8	1.54	0.71
36:DA:2009:G:H4'	55:DW:40:ASN:HD22	1.55	0.71
36:DA:2777:G:H5''	36:DA:2778:A:H5'	1.71	0.71
37:DB:75:G:H5'	37:DB:76:G:OP2	1.90	0.71
43:DH:33:LEU:HD12	43:DH:75:ALA:CA	2.20	0.71
49:DQ:6:ARG:O	49:DQ:7:MET:HG3	1.90	0.71
1:AA:256:U:H2'	1:AA:257:G:C8	2.25	0.71
1:AA:1258:G:O2'	1:AA:1259:C:H5'	1.90	0.71
7:AG:23:VAL:O	7:AG:27:ILE:HG13	1.89	0.71
12:AL:55:VAL:HG21	12:AL:67:THR:HG22	1.71	0.71
12:AL:86:ARG:HG2	12:AL:87:GLY:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:23:ARG:HA	14:AN:30:ALA:HA	1.71	0.71
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.56	0.71
27:B1:45:ASN:CB	36:BA:2230:G:H1'	2.20	0.71
27:B1:83:GLU:OE1	27:B1:83:GLU:N	2.24	0.71
28:B2:35:LEU:CD1	28:B2:50:ILE:HG13	2.19	0.71
29:B3:12:PRO:HG2	29:B3:13:ILE:H	1.55	0.71
32:B6:12:GLU:CD	32:B6:54:ILE:HG22	2.16	0.71
36:BA:864:G:H1'	36:BA:914:C:H42	1.56	0.71
36:BA:1064:C:H3'	36:BA:1065:U:C5'	2.20	0.71
36:BA:1512:U:H2'	36:BA:1512:U:O2	1.91	0.71
36:BA:2306:C:H5'	36:BA:2307:G:O5'	1.91	0.71
41:BF:32:LEU:O	41:BF:36:VAL:HG23	1.90	0.71
42:BG:114:ILE:HD12	42:BG:135:LEU:HD11	1.72	0.71
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	1.70	0.71
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.43	0.71
53:BU:24:TYR:HB2	53:BU:29:SER:HB3	1.71	0.71
2:CB:9:GLU:N	2:CB:9:GLU:OE2	2.24	0.71
2:CB:169:LYS:HB3	2:CB:170:GLU:OE2	1.89	0.71
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.05	0.71
18:CR:66:LEU:O	18:CR:70:ILE:HG13	1.90	0.71
36:DA:571:A:O2'	36:DA:572:A:H5''	1.91	0.71
36:DA:673:C:O2'	36:DA:674:G:H5'	1.89	0.71
36:DA:1027:A:N3	36:DA:1027:A:H2'	2.05	0.71
36:DA:1065:U:O2'	36:DA:1066:U:H5''	1.90	0.71
37:DB:15:A:H1'	37:DB:110:G:C6	2.26	0.71
43:DH:44:VAL:HG12	43:DH:45:VAL:N	2.03	0.71
1:AA:987:G:H2'	1:AA:988:G:H8	1.55	0.71
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.55	0.71
2:AB:177:ALA:HA	2:AB:182:ILE:HD12	1.71	0.71
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.03	0.71
22:AW:3:C:H2'	22:AW:4:C:O4'	1.89	0.71
30:B4:26:SER:HB2	42:BG:143:GLU:OE1	1.91	0.71
36:BA:377:C:H2'	36:BA:378:C:C6	2.26	0.71
36:BA:1578:U:C2'	36:BA:1579:A:H5''	2.21	0.71
36:BA:1775:U:H2'	36:BA:1776:G:C5'	2.21	0.71
36:BA:2170:A:H5''	38:BC:134:ARG:HE	1.55	0.71
37:BB:114:C:H4'	51:BS:46:VAL:HG13	1.73	0.71
38:BC:183:GLU:H	38:BC:183:GLU:CD	1.96	0.71
40:BE:4:ILE:HD13	40:BE:28:ALA:HB1	1.73	0.71
40:BE:198:VAL:HG12	40:BE:199:ARG:N	2.05	0.71
46:BN:36:GLY:H	46:BN:49:GLY:CA	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:14:PRO:CG	55:BW:78:GLU:HB2	2.19	0.71
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.06	0.71
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.91	0.71
3:CC:8:ILE:HG13	3:CC:184:TYR:HB3	1.71	0.71
25:CZ:271:GLU:O	25:CZ:286:VAL:HG23	1.90	0.71
26:D0:34:GLY:HA3	36:DA:2353:G:H1'	1.72	0.71
26:D0:55:ARG:O	26:D0:57:PHE:N	2.23	0.71
36:DA:1708:C:H2'	36:DA:1709:U:C6	2.26	0.71
36:DA:1853:A:H2'	36:DA:1854:A:C8	2.25	0.71
38:DC:86:ALA:HB3	38:DC:94:VAL:HG11	1.73	0.71
41:DF:153:SER:HA	41:DF:172:TRP:CB	2.20	0.71
50:DR:10:LEU:O	50:DR:11:ASN:HB2	1.90	0.71
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.55	0.71
22:AV:21:A:O2'	22:AV:22:G:H5''	1.90	0.71
36:BA:2260:C:H42	36:BA:2280:G:H1	1.39	0.71
36:BA:2590:A:OP2	39:BD:238:GLY:HA2	1.91	0.71
36:BA:2802:G:C3'	36:BA:2803:C:H5''	2.20	0.71
37:BB:21:G:H2'	37:BB:22:U:O4'	1.89	0.71
41:BF:160:ASN:ND2	41:BF:162:LEU:HD13	2.06	0.71
1:CA:167:G:H2'	1:CA:168:G:H8	1.55	0.71
1:CA:1251:A:O2'	1:CA:1370:G:H5'	1.89	0.71
2:CB:151:GLY:O	2:CB:153:ARG:N	2.24	0.71
9:CI:33:PHE:CZ	9:CI:47:LEU:HD11	2.25	0.71
28:D2:2:LYS:HA	28:D2:5:GLU:CD	2.16	0.71
28:D2:21:LEU:HD21	28:D2:60:LEU:HD22	1.71	0.71
36:DA:118:A:N3	36:DA:178:G:H1'	2.05	0.71
36:DA:687:C:H2'	36:DA:688:U:O4'	1.90	0.71
36:DA:751:A:H5'	55:DW:90:ARG:HA	1.71	0.71
36:DA:1279:G:H1	36:DA:1291:C:H42	1.38	0.71
36:DA:1827:C:H2'	36:DA:1828:G:O4'	1.91	0.71
42:DG:131:TYR:CE2	42:DG:133:LEU:HB3	2.21	0.71
49:DQ:51:ARG:O	49:DQ:54:MET:HB3	1.91	0.71
4:AD:109:GLY:O	4:AD:111:ALA:N	2.20	0.71
4:AD:170:VAL:HG12	4:AD:171:GLY:N	2.06	0.71
5:AE:46:GLY:C	5:AE:47:LYS:HD3	2.16	0.71
26:B0:38:VAL:HB	26:B0:59:LEU:HD12	1.72	0.71
28:B2:56:GLN:O	28:B2:60:LEU:HD12	1.90	0.71
32:B6:52:VAL:CG1	32:B6:53:LYS:N	2.53	0.71
36:BA:61:G:H1	36:BA:94:C:H42	1.39	0.71
36:BA:318:C:O2'	36:BA:319:C:H5'	1.90	0.71
36:BA:1946:U:H2'	36:BA:1947:C:H6	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2875:C:H4'	52:BT:5:ALA:HB3	1.73	0.71
40:BE:47:VAL:HG23	40:BE:84:PHE:O	1.90	0.71
41:BF:158:THR:HA	41:BF:198:ALA:HB2	1.72	0.71
48:BP:59:LEU:HA	48:BP:61:ARG:CD	2.20	0.71
49:BQ:34:LEU:HD12	49:BQ:130:LYS:O	1.90	0.71
49:BQ:37:LEU:HD11	49:BQ:129:THR:O	1.91	0.71
51:BS:89:ARG:HG3	51:BS:92:TYR:CA	2.20	0.71
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.56	0.71
1:CA:983:A:H2'	1:CA:983:A:N3	2.04	0.71
1:CA:1118:C:H1'	1:CA:1179:A:C5	2.26	0.71
3:CC:26:LYS:HG3	3:CC:27:LYS:H	1.55	0.71
7:CG:72:ARG:HG2	7:CG:73:MET:HG3	1.71	0.71
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.26	0.71
9:CI:43:ALA:CB	9:CI:74:ILE:HD13	2.20	0.71
9:CI:104:ARG:HG2	9:CI:105:ASP:N	2.06	0.71
18:CR:53:ARG:C	18:CR:55:ARG:H	1.98	0.71
22:CW:53:G:N2	22:CW:62:C:H42	1.88	0.71
22:CW:62:C:H2'	22:CW:63:G:H8	1.56	0.71
36:DA:1243:G:C2'	36:DA:1244:G:H5''	2.21	0.71
36:DA:2039:C:H2'	36:DA:2040:C:C6	2.26	0.71
36:DA:2170:A:H5''	38:DC:134:ARG:HE	1.54	0.71
36:DA:2179:C:H5''	36:DA:2180:U:OP1	1.90	0.71
36:DA:2233:U:H2'	36:DA:2234:G:C8	2.26	0.71
39:DD:175:LEU:HD12	39:DD:185:VAL:HG21	1.72	0.71
42:DG:39:ILE:HG22	42:DG:157:ILE:HG12	1.72	0.71
42:DG:52:ILE:H	42:DG:52:ILE:HD13	1.53	0.71
43:DH:41:MET:HG3	43:DH:42:ARG:N	2.05	0.71
49:DQ:39:PRO:HG3	49:DQ:99:PRO:HD2	1.72	0.71
50:DR:55:ALA:HA	50:DR:80:PHE:HE1	1.54	0.71
54:DV:69:LYS:HA	54:DV:87:HIS:O	1.91	0.71
57:DY:46:LYS:HB2	57:DY:62:GLU:HG2	1.72	0.71
1:AA:512:U:H2'	1:AA:513:C:H6	1.56	0.71
1:AA:1054:C:H6	1:AA:1196:U:C4	2.09	0.71
1:AA:1105:A:O2'	1:AA:1106:G:H5'	1.91	0.71
2:AB:215:LEU:O	2:AB:219:VAL:HG23	1.90	0.71
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.06	0.71
12:AL:20:LYS:HD3	12:AL:20:LYS:H	1.55	0.71
14:AN:12:ARG:HB3	14:AN:14:PRO:HG2	1.71	0.71
29:B3:1:MET:HB2	29:B3:38:GLU:HG3	1.73	0.71
33:B7:18:PHE:HZ	36:BA:117:G:H4'	1.54	0.71
36:BA:761:A:H8	36:BA:761:A:O5'	1.74	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1818:U:C2'	39:BD:157:ARG:HG3	2.20	0.71
36:BA:1853:A:H2'	36:BA:1854:A:C8	2.25	0.71
36:BA:2359:C:H2'	36:BA:2360:A:H5'	1.73	0.71
40:BE:44:TYR:O	40:BE:45:THR:HB	1.90	0.71
44:BJ:56:UNK:HA	44:BJ:83:UNK:HA	1.72	0.71
46:BN:10:GLU:CG	46:BN:11:PRO:HD2	2.21	0.71
46:BN:129:PRO:O	46:BN:130:HIS:HB3	1.91	0.71
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD1	2.26	0.71
1:CA:781:A:H2'	1:CA:782:A:H5'	1.73	0.71
4:CD:173:TRP:HB3	4:CD:187:ARG:NH2	2.06	0.71
7:CG:63:LYS:NZ	7:CG:67:GLU:HB2	2.06	0.71
13:CM:108:ARG:HH11	13:CM:108:ARG:HA	1.56	0.71
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.54	0.71
25:CZ:355:LEU:C	25:CZ:359:VAL:CG2	2.63	0.71
26:D0:38:VAL:HB	26:D0:59:LEU:HD12	1.73	0.71
36:DA:272(H):C:H2'	36:DA:272(I):U:C5'	2.20	0.71
36:DA:2756:U:H1'	36:DA:2757:A:H5''	1.72	0.71
45:DK:31:UNK:O	45:DK:63:UNK:HA	1.91	0.71
46:DN:55:VAL:HG22	46:DN:56:ASN:H	1.56	0.71
54:DV:98:GLU:OE2	54:DV:100:ARG:HD3	1.91	0.71
56:DX:14:SER:O	56:DX:17:ALA:HB3	1.90	0.71
58:DZ:128:VAL:HG21	58:DZ:160:GLY:O	1.91	0.71
1:AA:473:G:H2'	1:AA:474:G:H8	1.54	0.71
1:AA:892:A:O2'	1:AA:1415:G:H4'	1.91	0.71
1:AA:1190:G:OP1	3:AC:4:LYS:HA	1.91	0.71
9:AI:43:ALA:CB	9:AI:74:ILE:HD13	2.20	0.71
10:AJ:67:THR:HG23	10:AJ:67:THR:O	1.91	0.71
10:AJ:80:LYS:HB3	10:AJ:80:LYS:NZ	2.05	0.71
21:AU:2:GLY:C	21:AU:4:GLY:H	1.99	0.71
25:AZ:139:ASP:O	25:AZ:140:MET:HG2	1.90	0.71
36:BA:80:G:O2'	36:BA:81:G:H5'	1.91	0.71
36:BA:106:C:H2'	36:BA:107:C:C6	2.25	0.71
36:BA:212:G:O2'	36:BA:213:A:H5'	1.90	0.71
36:BA:234:C:H2'	36:BA:235:U:H6	1.55	0.71
36:BA:265:A:H4'	36:BA:266:G:O5'	1.90	0.71
36:BA:410:G:H1	36:BA:417:C:H42	1.39	0.71
36:BA:2491:U:H4'	36:BA:2570:G:OP1	1.91	0.71
39:BD:35:LYS:HG2	39:BD:63:ARG:CG	2.21	0.71
47:BO:101:PRO:HD3	52:BT:68:TYR:HB2	1.72	0.71
51:BS:42:ASP:C	51:BS:44:LYS:H	1.99	0.71
1:CA:547:A:H4'	1:CA:548:G:O5'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:660:G:H2'	1:CA:661:G:H8	1.56	0.71
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.25	0.71
8:CH:14:ARG:CB	8:CH:14:ARG:HH11	2.04	0.71
10:CJ:50:ILE:HG22	10:CJ:60:ARG:HG2	1.73	0.71
24:CY:9:A:N6	24:CY:23:A:H62	1.89	0.71
28:D2:51:ARG:HB2	28:D2:55:ARG:NH2	2.06	0.71
32:D6:19:ARG:HG3	32:D6:20:ASN:N	2.04	0.71
36:DA:142:A:H5'	36:DA:142(A):C:OP2	1.91	0.71
36:DA:581:C:H2'	36:DA:582:G:C8	2.25	0.71
39:DD:24:ILE:O	39:DD:25:THR:O	2.08	0.71
39:DD:136:ILE:HG22	39:DD:140:THR:OG1	1.90	0.71
41:DF:132:VAL:HG22	41:DF:133:ASN:N	2.05	0.71
46:DN:14:VAL:HG11	46:DN:137:LYS:HG3	1.73	0.71
46:DN:35:ARG:HG3	46:DN:35:ARG:O	1.90	0.71
50:DR:34:ILE:HB	50:DR:114:VAL:HG23	1.73	0.71
51:DS:83:LYS:HG2	51:DS:105:ALA:HB2	1.73	0.71
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.20	0.71
58:DZ:11:GLU:CD	58:DZ:11:GLU:H	1.97	0.71
1:AA:8:A:H5'	5:AE:120:THR:O	1.91	0.70
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.55	0.70
1:AA:858:G:C6	1:AA:869:G:N7	2.59	0.70
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.73	0.70
4:AD:145:GLU:HA	4:AD:184:LYS:HA	1.73	0.70
7:AG:69:VAL:O	7:AG:69:VAL:HG13	1.90	0.70
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.24	0.70
12:AL:18:VAL:CG2	12:AL:19:ARG:H	1.95	0.70
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.73	0.70
24:AY:30:C:O2	24:AY:30:C:H2'	1.90	0.70
26:B0:4:LYS:HD3	36:BA:2252:G:O6	1.91	0.70
26:B0:41:ARG:NH2	36:BA:2387:U:H1'	2.06	0.70
28:B2:5:GLU:CB	28:B2:9:GLN:HE22	2.02	0.70
31:B5:57:VAL:C	31:B5:58:LEU:HD12	2.15	0.70
36:BA:329:G:N7	57:BY:71:LYS:HE3	2.06	0.70
36:BA:628:G:H2'	36:BA:629:G:H5''	1.73	0.70
36:BA:806:C:O2'	36:BA:2445:G:H4'	1.89	0.70
36:BA:1164:G:O2'	36:BA:1165:U:H5'	1.89	0.70
43:BH:33:LEU:CD1	43:BH:75:ALA:HA	2.20	0.70
54:BV:88:ARG:O	54:BV:90:PRO:HD3	1.91	0.70
57:BY:46:LYS:HB2	57:BY:62:GLU:HG2	1.72	0.70
58:BZ:76:LEU:CD2	58:BZ:82:ARG:H	2.04	0.70
2:CB:44:LEU:O	2:CB:47:THR:HB	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:90:MET:HE2	2:CB:90:MET:HA	1.72	0.70
7:CG:31:MET:HG2	7:CG:32:ARG:N	2.06	0.70
8:CH:98:LYS:HG3	8:CH:99:GLU:HG3	1.73	0.70
13:CM:32:GLU:O	13:CM:35:GLU:HG2	1.91	0.70
14:CN:48:ALA:CB	14:CN:53:LEU:HD12	2.20	0.70
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.56	0.70
20:CT:57:ARG:NH1	20:CT:102:GLY:HA3	2.06	0.70
25:CZ:347:THR:HG22	25:CZ:348:ASP:N	2.05	0.70
27:D1:18:ILE:HG22	27:D1:19:GLN:N	2.05	0.70
30:D4:46:GLN:HG3	30:D4:47:GLN:N	2.04	0.70
36:DA:2721:A:H2'	36:DA:2722:G:H8	1.56	0.70
38:DC:23:ASP:CB	38:DC:27:ARG:HH12	2.00	0.70
43:DH:20:ALA:HB1	43:DH:21:PRO:CD	2.21	0.70
49:DQ:140:ALA:HB3	58:DZ:53:ILE:HD12	1.71	0.70
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CD1	2.21	0.70
1:AA:781:A:H2'	1:AA:782:A:H5'	1.72	0.70
1:AA:1003:G:N2	1:AA:1039:C:H42	1.89	0.70
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.06	0.70
1:AA:1442(B):A:H5''	52:BT:122:ASP:OD1	1.90	0.70
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.06	0.70
22:AV:74:C:H42	36:BA:2252:G:H1	1.38	0.70
31:B5:2:ALA:N	36:BA:2015:A:H1'	2.07	0.70
36:BA:74:A:H5''	36:BA:75:G:H1'	1.73	0.70
36:BA:143(A):C:H4'	56:BX:38:GLU:OE1	1.92	0.70
36:BA:265:A:H1'	36:BA:266:G:O4'	1.91	0.70
36:BA:692:C:O2'	36:BA:693:C:H5'	1.90	0.70
36:BA:996:A:N6	36:BA:1160:G:C6	2.59	0.70
36:BA:1353:A:H2'	36:BA:1354:A:H8	1.54	0.70
36:BA:2189:U:H2'	36:BA:2190:G:C4'	2.21	0.70
39:BD:4:LYS:NZ	39:BD:20:ASP:HA	2.07	0.70
39:BD:175:LEU:HD12	39:BD:185:VAL:HG21	1.71	0.70
57:BY:96:ILE:CG1	57:BY:99:CYS:HB3	2.19	0.70
1:CA:1305:G:O2'	1:CA:1306:A:H8	1.73	0.70
3:CC:142:MET:C	3:CC:144:SER:H	1.99	0.70
9:CI:112:LYS:HD3	9:CI:112:LYS:C	2.15	0.70
20:CT:50:GLU:HB2	20:CT:100:ILE:HD13	1.72	0.70
28:D2:3:LEU:HB3	36:DA:98:G:OP1	1.90	0.70
28:D2:4:SER:HA	28:D2:7:ARG:HD2	1.71	0.70
34:D8:43:GLN:O	34:D8:44:LYS:HD2	1.90	0.70
36:DA:2025:C:H2'	36:DA:2026:C:C6	2.26	0.70
36:DA:2064:C:H1'	36:DA:2450:A:C6	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2839:G:H1	36:DA:2878:U:H3	1.37	0.70
39:DD:59:LYS:HG3	39:DD:60:ARG:N	2.05	0.70
41:DF:108:LYS:O	41:DF:112:MET:HB2	1.90	0.70
41:DF:110:LEU:HD13	41:DF:111:ALA:N	2.06	0.70
42:DG:85:GLY:C	42:DG:87:PRO:CD	2.59	0.70
43:DH:42:ARG:HB2	43:DH:42:ARG:NH1	2.06	0.70
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD1	2.26	0.70
49:DQ:37:LEU:HD11	49:DQ:129:THR:O	1.91	0.70
49:DQ:74:TYR:HD1	49:DQ:75:THR:H	1.39	0.70
51:DS:67:ARG:HH21	51:DS:100:ALA:CB	2.04	0.70
55:DW:8:ARG:CA	55:DW:102:HIS:HB3	2.15	0.70
1:AA:125:U:H2'	1:AA:126:G:C8	2.26	0.70
1:AA:983:A:N3	1:AA:983:A:H2'	2.04	0.70
2:AB:7:VAL:HA	2:AB:11:LEU:HG	1.73	0.70
2:AB:179:LYS:HA	8:AH:72:PRO:HD3	1.73	0.70
6:AF:99:ALA:HB3	18:AR:29:PHE:CE2	2.26	0.70
9:AI:7:THR:O	9:AI:80:GLY:HA2	1.90	0.70
20:AT:57:ARG:NH1	20:AT:103:GLY:N	2.38	0.70
25:AZ:104:LEU:HD11	25:AZ:116:THR:HG23	1.72	0.70
25:AZ:193:ASN:HB3	25:AZ:196:VAL:HG23	1.73	0.70
27:B1:24:ALA:N	27:B1:32:LYS:HE3	2.06	0.70
28:B2:10:LEU:HA	28:B2:13:ALA:HB3	1.72	0.70
33:B7:41:ARG:HH22	36:BA:460:A:P	2.14	0.70
35:B9:7:VAL:HG13	35:B9:34:GLN:CG	2.21	0.70
36:BA:328:U:H4'	57:BY:68:HIS:NE2	2.06	0.70
36:BA:581:C:H2'	36:BA:582:G:C8	2.26	0.70
36:BA:619:G:H3'	36:BA:620:G:H21	1.57	0.70
36:BA:968:G:H2'	36:BA:969:U:C6	2.25	0.70
36:BA:1946:U:H2'	36:BA:1947:C:C6	2.26	0.70
36:BA:2074:U:H2'	36:BA:2075:U:C6	2.26	0.70
36:BA:2673:G:H8	36:BA:2673:G:H5'	1.56	0.70
36:BA:2781:A:H5''	36:BA:2782:G:H5'	1.72	0.70
40:BE:9:VAL:CG1	40:BE:25:VAL:HB	2.21	0.70
42:BG:87:PRO:HG2	42:BG:88:ILE:H	1.54	0.70
46:BN:14:VAL:HG11	46:BN:137:LYS:HG3	1.73	0.70
52:BT:94:ALA:C	52:BT:96:ARG:H	1.99	0.70
1:CA:993:G:H2'	1:CA:993:G:N3	2.05	0.70
2:CB:7:VAL:HA	2:CB:11:LEU:HG	1.72	0.70
10:CJ:12:ASP:HB3	10:CJ:15:THR:HG1	1.53	0.70
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.06	0.70
19:CS:40:ILE:HB	19:CS:67:VAL:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:2:GLY:C	21:CU:4:GLY:H	2.00	0.70
31:D5:56:LYS:HE2	31:D5:59:GLU:OE2	1.92	0.70
36:DA:83:G:C2	36:DA:102:G:H2'	2.26	0.70
36:DA:330:A:C2	36:DA:1210:A:H2'	2.21	0.70
36:DA:612:C:O2'	36:DA:613:G:H5''	1.91	0.70
36:DA:1060:U:H1'	36:DA:1061:U:O5'	1.91	0.70
36:DA:1162:G:H4'	54:DV:24:LYS:HB2	1.71	0.70
36:DA:1946:U:H2'	36:DA:1947:C:C6	2.26	0.70
36:DA:2475:C:H42	36:DA:2529:G:H22	1.38	0.70
37:DB:103:G:N2	58:DZ:73:GLN:OE1	2.23	0.70
37:DB:106:G:H2'	37:DB:107:G:C8	2.23	0.70
1:AA:250:A:H4'	1:AA:251:G:O5'	1.91	0.70
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.73	0.70
8:AH:98:LYS:HG3	8:AH:99:GLU:HG3	1.73	0.70
13:AM:14:ARG:O	13:AM:17:VAL:HB	1.91	0.70
19:AS:9:VAL:O	19:AS:11:VAL:HG12	1.91	0.70
25:AZ:118:GLU:C	25:AZ:120:ILE:H	2.00	0.70
25:AZ:376:LYS:O	25:AZ:378:VAL:HG13	1.92	0.70
36:BA:189:G:H2'	36:BA:205:G:N2	2.06	0.70
36:BA:438:G:H2'	36:BA:440:G:C8	2.26	0.70
36:BA:572:A:H61	36:BA:2029:G:H21	1.38	0.70
36:BA:660:G:H5'	41:BF:99:TYR:CD2	2.27	0.70
36:BA:1290:C:H2'	36:BA:1291:C:C6	2.26	0.70
36:BA:1385:G:H4'	36:BA:1386:C:OP1	1.90	0.70
36:BA:2881:C:H2'	36:BA:2882:A:C8	2.26	0.70
38:BC:22:ILE:HG13	38:BC:228:SER:OG	1.92	0.70
46:BN:35:ARG:O	46:BN:35:ARG:HG3	1.91	0.70
50:BR:34:ILE:HB	50:BR:114:VAL:HG23	1.72	0.70
1:CA:142:G:H1	1:CA:221:C:H42	1.39	0.70
1:CA:473:G:H2'	1:CA:474:G:C8	2.25	0.70
1:CA:707:C:O2'	1:CA:708:C:H5'	1.90	0.70
1:CA:1375:A:H2'	1:CA:1376:U:O4'	1.91	0.70
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.04	0.70
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.72	0.70
5:CE:94:ALA:HB3	5:CE:117:ASP:O	1.92	0.70
6:CF:99:ALA:HB3	18:CR:29:PHE:CE2	2.25	0.70
9:CI:110:GLU:HG2	9:CI:113:LYS:NZ	2.07	0.70
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.05	0.70
31:D5:57:VAL:C	31:D5:58:LEU:HD12	2.17	0.70
36:DA:2071:A:H2'	36:DA:2072:G:C8	2.26	0.70
36:DA:2496:C:OP1	49:DQ:83:MET:HG2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:137:LEU:O	38:DC:139:ASN:N	2.23	0.70
40:DE:47:VAL:HG23	40:DE:84:PHE:O	1.91	0.70
41:DF:136:THR:O	41:DF:140:LEU:HB2	1.91	0.70
46:DN:5:VAL:HG12	46:DN:7:LYS:HG3	1.74	0.70
47:DO:17:ARG:O	47:DO:18:LYS:HB2	1.91	0.70
51:DS:72:ALA:O	51:DS:75:GLU:HB3	1.91	0.70
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.92	0.70
1:AA:9:G:OP1	5:AE:122:GLU:HG3	1.91	0.70
1:AA:662:G:H2'	1:AA:663:A:H8	1.57	0.70
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.90	0.70
13:AM:21:TYR:C	13:AM:22:ILE:HD12	2.15	0.70
36:BA:31:C:H2'	36:BA:32:C:C5'	2.21	0.70
36:BA:686:G:N2	36:BA:788:A:H61	1.89	0.70
36:BA:1657:C:O5'	36:BA:1657:C:H6	1.73	0.70
36:BA:2144:U:H2'	36:BA:2146:C:C5	2.25	0.70
38:BC:103:ILE:O	38:BC:103:ILE:HG22	1.91	0.70
39:BD:24:ILE:O	39:BD:25:THR:O	2.09	0.70
46:BN:75:TYR:CD1	46:BN:82:LEU:HB2	2.23	0.70
47:BO:23:ARG:HG3	47:BO:24:VAL:N	2.06	0.70
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.73	0.70
53:BU:14:HIS:HD2	53:BU:32:PHE:CB	2.04	0.70
1:CA:254:G:N2	17:CQ:16:GLN:HE22	1.89	0.70
1:CA:390:C:O3'	16:CP:28:ARG:NH1	2.25	0.70
1:CA:409:G:C5'	4:CD:25:ARG:HB2	2.21	0.70
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.73	0.70
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.92	0.70
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.57	0.70
20:CT:57:ARG:NH1	20:CT:103:GLY:N	2.39	0.70
20:CT:59:ALA:O	20:CT:63:ILE:HG13	1.92	0.70
25:CZ:164:PRO:O	25:CZ:168:VAL:HG23	1.90	0.70
34:D8:10:ALA:O	34:D8:14:VAL:HG12	1.90	0.70
36:DA:25:U:C5'	55:DW:79:GLY:HA2	2.21	0.70
36:DA:1902:C:H4'	39:DD:244:ARG:HB2	1.73	0.70
36:DA:2482:G:H22	49:DQ:52:VAL:CG1	2.03	0.70
36:DA:2502:G:C5'	36:DA:2503:A:H5''	2.15	0.70
36:DA:2653:U:H3'	36:DA:2654:A:H8	1.54	0.70
37:DB:51:G:H2'	37:DB:52:A:C8	2.26	0.70
38:DC:40:THR:HG23	38:DC:177:LYS:HD2	1.73	0.70
41:DF:29:ASN:O	41:DF:33:LEU:HD23	1.91	0.70
41:DF:37:VAL:HG22	41:DF:183:VAL:HG23	1.73	0.70
42:DG:16:ARG:HD2	42:DG:20:ILE:HD11	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DJ:56:UNK:HA	44:DJ:83:UNK:HA	1.74	0.70
46:DN:28:THR:CG2	46:DN:29:LYS:H	2.04	0.70
49:DQ:70:PRO:O	49:DQ:93:TYR:HB3	1.92	0.70
50:DR:55:ALA:HA	50:DR:80:PHE:CE1	2.26	0.70
52:DT:28:VAL:HG21	52:DT:46:GLU:HA	1.72	0.70
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.21	0.70
1:AA:409:G:C5'	4:AD:25:ARG:HB2	2.22	0.70
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.72	0.70
7:AG:63:LYS:NZ	7:AG:67:GLU:HB2	2.05	0.70
36:BA:1065:U:O2'	36:BA:1066:U:H5''	1.92	0.70
36:BA:1458:C:H4'	36:BA:1459:G:O4'	1.92	0.70
36:BA:1771:C:C4	36:BA:1772:G:N7	2.60	0.70
36:BA:2071:A:H2'	36:BA:2072:G:C8	2.27	0.70
39:BD:63:ARG:HH11	39:BD:63:ARG:HG3	1.55	0.70
42:BG:146:TYR:C	42:BG:148:MET:H	1.99	0.70
43:BH:42:ARG:HB2	43:BH:42:ARG:NH1	2.06	0.70
46:BN:55:VAL:HG22	46:BN:56:ASN:H	1.57	0.70
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.20	0.70
57:BY:97:ARG:O	57:BY:97:ARG:HG3	1.91	0.70
1:CA:321:A:O2'	1:CA:322:C:H5'	1.91	0.70
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.73	0.70
7:CG:69:VAL:HG11	7:CG:104:LEU:CD2	2.18	0.70
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.91	0.70
12:CL:18:VAL:CG2	12:CL:19:ARG:H	1.97	0.70
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.17	0.70
28:D2:68:ARG:NH2	28:D2:72:ALA:HB1	2.06	0.70
36:DA:1484:G:H2'	36:DA:1485:G:C5'	2.17	0.70
36:DA:2228:G:OP1	39:DD:261:LYS:HE3	1.91	0.70
36:DA:2708:G:H2'	36:DA:2709:G:H8	1.56	0.70
42:DG:125:PHE:C	42:DG:127:GLY:H	1.99	0.70
53:DU:92:ARG:HD2	54:DV:11:GLN:HG2	1.71	0.70
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.71	0.70
54:DV:88:ARG:O	54:DV:90:PRO:HD3	1.91	0.70
1:AA:1401:G:O2'	1:AA:1402:C:H5'	1.92	0.70
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.06	0.70
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.92	0.70
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.56	0.70
20:AT:57:ARG:HB2	20:AT:57:ARG:HH11	1.55	0.70
24:AY:33:U:H2'	24:AY:34:G:H3'	1.71	0.70
27:B1:35:THR:HG23	27:B1:35:THR:O	1.92	0.70
36:BA:34:C:N4	36:BA:447:A:H61	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:191:A:O2'	36:BA:192:C:H5'	1.92	0.70
36:BA:398:G:H2'	36:BA:399:G:C8	2.27	0.70
36:BA:654(V):A:H8	36:BA:655:A:H2'	1.56	0.70
36:BA:2574:G:H2'	36:BA:2575:C:O4'	1.92	0.70
38:BC:140:PRO:C	38:BC:142:ALA:H	1.98	0.70
39:BD:64:ILE:HG13	39:BD:65:ILE:N	2.05	0.70
42:BG:51:ARG:HA	42:BG:51:ARG:NE	2.05	0.70
43:BH:65:HIS:C	43:BH:67:LEU:H	2.00	0.70
1:CA:1087:G:N2	1:CA:1099:G:H1'	2.06	0.70
1:CA:1440:C:H2'	1:CA:1441:G:H5'	1.73	0.70
2:CB:21:ARG:NE	2:CB:39:ILE:HG12	2.06	0.70
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.74	0.70
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	1.74	0.70
13:CM:3:ARG:HB2	30:D4:34:GLU:HG2	1.74	0.70
25:CZ:118:GLU:C	25:CZ:120:ILE:H	2.00	0.70
25:CZ:193:ASN:HB3	25:CZ:196:VAL:HG23	1.74	0.70
36:DA:139:G:C6	36:DA:140:G:H2'	2.26	0.70
36:DA:570:G:H2'	36:DA:2030:A:N7	2.05	0.70
36:DA:996:A:H4'	53:DU:92:ARG:HG2	1.74	0.70
36:DA:1170:G:H1	36:DA:1179:C:N4	1.88	0.70
36:DA:1251:C:OP2	53:DU:10:ARG:NE	2.24	0.70
36:DA:1297:C:H2'	36:DA:1298:C:C6	2.27	0.70
36:DA:1817:G:O2'	36:DA:1818:U:H5'	1.91	0.70
36:DA:2260:C:H42	36:DA:2280:G:H1	1.40	0.70
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.91	0.70
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.06	0.70
1:AA:652:U:O2'	1:AA:653:A:H5''	1.92	0.70
1:AA:1502:A:H2	1:AA:1505:G:H1	1.37	0.70
1:AA:1531:A:H8	1:AA:1531:A:O5'	1.74	0.70
4:AD:121:VAL:HG12	4:AD:134:ASP:HA	1.72	0.70
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.07	0.70
13:AM:32:GLU:O	13:AM:35:GLU:HG2	1.91	0.70
28:B2:54:LYS:HG2	36:BA:73:A:OP1	1.91	0.70
36:BA:716:A:H2'	36:BA:717:G:H5''	1.74	0.70
36:BA:2690:C:H4'	36:BA:2872:G:N2	2.07	0.70
36:BA:2745:C:H1'	43:BH:143:GLN:HG2	1.72	0.70
37:BB:17:C:H2'	37:BB:18:G:C8	2.27	0.70
41:BF:155:LEU:HD11	41:BF:176:LEU:HD22	1.73	0.70
55:BW:8:ARG:CA	55:BW:102:HIS:HB3	2.14	0.70
1:CA:18:C:C5'	5:CE:127:ASN:HD21	2.04	0.70
1:CA:84:U:H2'	1:CA:88:A:H5'	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1191:A:H5''	3:CC:4:LYS:HZ2	1.57	0.70
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.91	0.70
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.73	0.70
5:CE:135:THR:O	5:CE:138:ALA:HB3	1.91	0.70
22:CV:74:C:H42	36:DA:2252:G:H1	1.39	0.70
28:D2:47:ASN:O	28:D2:50:ILE:HD13	1.91	0.70
32:D6:36:LEU:HD12	32:D6:50:ARG:CZ	2.22	0.70
36:DA:61:G:H1	36:DA:94:C:H42	1.39	0.70
36:DA:584:C:H2'	36:DA:585:G:H5'	1.73	0.70
36:DA:2111:C:N4	36:DA:2145:C:H2'	2.07	0.70
39:DD:140:THR:O	39:DD:165:ILE:HG12	1.92	0.70
40:DE:198:VAL:HG12	40:DE:199:ARG:N	2.01	0.70
42:DG:86:MET:N	42:DG:87:PRO:HD3	2.06	0.70
42:DG:106:LEU:HD12	42:DG:110:ALA:CB	2.22	0.70
43:DH:65:HIS:C	43:DH:67:LEU:H	1.99	0.70
46:DN:107:LEU:HB3	46:DN:108:PRO:HD2	1.74	0.70
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.74	0.70
57:DY:81:LYS:HD2	57:DY:96:ILE:HD12	1.72	0.70
4:AD:173:TRP:HB3	4:AD:187:ARG:NH2	2.06	0.70
28:B2:21:LEU:HD23	28:B2:24:LEU:HB3	1.74	0.70
36:BA:25:U:C5'	55:BW:79:GLY:HA2	2.22	0.70
36:BA:118:A:N3	36:BA:178:G:H1'	2.07	0.70
36:BA:811:U:H5	48:BP:24:GLY:HA3	1.57	0.70
36:BA:1062:G:C2	36:BA:1063:G:H1'	2.27	0.70
36:BA:2064:C:H1'	36:BA:2450:A:C6	2.27	0.70
36:BA:2475:C:H42	36:BA:2529:G:H22	1.36	0.70
36:BA:2523:G:H2'	36:BA:2524:G:C5'	2.13	0.70
36:BA:2820:A:N6	40:BE:192:ASN:HB3	2.05	0.70
42:BG:60:LEU:HA	42:BG:63:ILE:HD11	1.72	0.70
50:BR:60:LEU:O	50:BR:63:ARG:HB2	1.91	0.70
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.92	0.70
52:BT:50:ILE:HG23	52:BT:99:LEU:HD12	1.73	0.70
52:BT:113:LYS:O	52:BT:114:LEU:HD23	1.92	0.70
2:CB:7:VAL:HG13	2:CB:11:LEU:HD11	1.73	0.70
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.91	0.70
19:CS:43:GLU:C	19:CS:45:VAL:H	1.96	0.70
25:CZ:225:VAL:HG12	25:CZ:300:ARG:HA	1.74	0.70
32:D6:8:LYS:HE3	32:D6:25:LYS:HD3	1.73	0.70
36:DA:92:A:H2'	36:DA:93:G:O4'	1.92	0.70
36:DA:111:A:H2'	36:DA:112:U:O4'	1.92	0.70
36:DA:438:G:H2'	36:DA:440:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:692:C:O2'	36:DA:693:C:H5'	1.91	0.70
36:DA:2472:G:H2'	36:DA:2475:C:N4	2.06	0.70
42:DG:55:LYS:O	42:DG:55:LYS:HD3	1.91	0.70
47:DO:107:ARG:HH11	52:DT:36:GLU:HG3	1.57	0.70
50:DR:24:GLN:HB2	50:DR:44:LEU:HD21	1.73	0.70
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.73	0.70
55:DW:12:ILE:HB	55:DW:42:ARG:HH12	1.56	0.70
58:DZ:24:LEU:HD12	58:DZ:41:LEU:HA	1.74	0.70
58:DZ:71:VAL:HG11	58:DZ:74:VAL:HG23	1.74	0.70
1:AA:1352:C:H42	1:AA:1370:G:H1	1.38	0.70
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.54	0.70
6:AF:2:ARG:HD2	6:AF:69:GLU:HB3	1.73	0.70
8:AH:14:ARG:CB	8:AH:14:ARG:HH11	2.05	0.70
8:AH:64:LYS:HG2	8:AH:65:TYR:N	2.07	0.70
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.05	0.70
19:AS:43:GLU:C	19:AS:45:VAL:H	1.98	0.70
28:B2:57:ILE:O	28:B2:61:LEU:HG	1.92	0.70
36:BA:330:A:C2	36:BA:1210:A:H2'	2.22	0.70
36:BA:1999:C:H2'	36:BA:2000:G:H8	1.56	0.70
38:BC:47:LEU:HD12	38:BC:47:LEU:N	2.07	0.70
41:BF:43:LYS:HB3	41:BF:98:SER:HB3	1.74	0.70
43:BH:37:VAL:HG12	43:BH:38:SER:N	2.03	0.70
52:BT:28:VAL:HG21	52:BT:46:GLU:HA	1.74	0.70
55:BW:12:ILE:HD12	55:BW:42:ARG:HH11	1.56	0.70
55:BW:14:PRO:HG3	55:BW:101:SER:OG	1.91	0.70
1:CA:328:C:H4'	1:CA:329:A:H5'	1.74	0.70
1:CA:426:G:H2'	1:CA:427:U:C6	2.27	0.70
1:CA:851:G:H2'	1:CA:852:G:H8	1.57	0.70
1:CA:1054:C:H3'	1:CA:1054:C:O2	1.91	0.70
3:CC:94:LEU:HD12	3:CC:94:LEU:O	1.92	0.70
4:CD:100:ARG:HG2	4:CD:102:ASP:OD1	1.92	0.70
16:CP:21:VAL:HG12	16:CP:34:GLU:O	1.91	0.70
25:CZ:234:ARG:HB3	25:CZ:289:LEU:CD1	2.22	0.70
36:DA:547:A:H2'	36:DA:548:A:H8	1.57	0.70
36:DA:958:U:H5''	49:DQ:14:ARG:HD3	1.74	0.70
36:DA:1578:U:C2'	36:DA:1579:A:H5''	2.20	0.70
36:DA:2772:C:H2'	36:DA:2773:C:C6	2.26	0.70
36:DA:2820:A:N6	40:DE:192:ASN:HB3	2.07	0.70
40:DE:87:GLU:O	40:DE:89:ASP:N	2.18	0.70
42:DG:106:LEU:HD12	42:DG:110:ALA:HB3	1.74	0.70
43:DH:37:VAL:HG12	43:DH:38:SER:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:86:LYS:HB3	48:DP:86:LYS:NZ	2.07	0.70
52:DT:89:VAL:HG21	52:DT:91:ARG:HH21	1.57	0.70
1:AA:412:A:H4'	1:AA:413:G:H8	1.54	0.69
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.26	0.69
1:AA:1436:U:H3	1:AA:1465:C:H42	1.41	0.69
25:AZ:38:GLU:CB	25:AZ:189:ARG:NH1	2.52	0.69
32:B6:15:GLU:HB2	32:B6:20:ASN:HB3	1.74	0.69
32:B6:53:LYS:CG	32:B6:54:ILE:N	2.55	0.69
36:BA:448:U:O4	36:BA:583:G:H1'	1.92	0.69
36:BA:1060:U:H1'	36:BA:1061:U:O5'	1.92	0.69
36:BA:1224:C:O3'	54:BV:86:GLY:HA3	1.91	0.69
40:BE:34:VAL:O	40:BE:34:VAL:HG22	1.92	0.69
46:BN:21:LYS:HE3	46:BN:25:ARG:CB	2.22	0.69
48:BP:23:PRO:HB3	48:BP:29:LYS:HB3	1.74	0.69
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.06	0.69
51:BS:98:VAL:HG12	51:BS:100:ALA:H	1.55	0.69
51:BS:98:VAL:C	51:BS:100:ALA:H	1.99	0.69
55:BW:40:ASN:O	55:BW:41:LYS:HG2	1.91	0.69
1:CA:918:A:H2'	1:CA:919:A:C8	2.28	0.69
1:CA:956:U:O2'	1:CA:957:U:H5'	1.92	0.69
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.07	0.69
2:CB:102:LEU:HD23	2:CB:182:ILE:CD1	2.22	0.69
18:CR:58:LEU:CD2	18:CR:62:GLU:HB3	2.22	0.69
18:CR:73:ALA:CB	18:CR:79:LEU:HD12	2.22	0.69
26:D0:7:LEU:HD13	49:DQ:85:LYS:HG3	1.71	0.69
29:D3:23:LEU:C	29:D3:25:ALA:H	1.97	0.69
36:DA:68:G:H2'	36:DA:69:C:C6	2.27	0.69
36:DA:458:G:N2	36:DA:469:G:H2'	2.07	0.69
36:DA:479:A:HO2'	36:DA:481:G:H8	1.38	0.69
36:DA:1087:G:H21	36:DA:1103:A:H61	1.38	0.69
36:DA:1458:C:H4'	36:DA:1459:G:O4'	1.92	0.69
36:DA:1654:A:OP1	50:DR:2:ARG:HA	1.91	0.69
46:DN:40:PRO:CB	53:DU:68:ALA:HB2	2.22	0.69
51:DS:106:ARG:HD2	51:DS:107:GLU:N	2.07	0.69
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.74	0.69
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.58	0.69
22:AW:62:C:H2'	22:AW:63:G:H8	1.57	0.69
25:AZ:252:GLU:OE2	25:AZ:264:ARG:HD2	1.92	0.69
32:B6:53:LYS:CG	32:B6:54:ILE:H	2.04	0.69
36:BA:83:G:C2	36:BA:102:G:H2'	2.27	0.69
38:BC:28:LEU:O	38:BC:28:LEU:HD23	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:147:PHE:C	38:BC:149:ILE:N	2.48	0.69
42:BG:47:LYS:HZ2	42:BG:81:LYS:CG	2.05	0.69
47:BO:11:ALA:CB	47:BO:98:VAL:HG23	2.22	0.69
50:BR:10:LEU:O	50:BR:11:ASN:HB2	1.90	0.69
52:BT:67:SER:O	52:BT:68:TYR:HB2	1.90	0.69
54:BV:28:GLU:O	54:BV:61:VAL:HG21	1.92	0.69
1:CA:642:A:H1'	8:CH:113:SER:OG	1.92	0.69
4:CD:149:ALA:O	4:CD:153:ARG:HG3	1.91	0.69
20:CT:73:HIS:O	20:CT:76:ALA:HB3	1.91	0.69
31:D5:40:LYS:HZ3	31:D5:45:VAL:HA	1.55	0.69
33:D7:30:VAL:CG1	36:DA:466:A:H4'	2.22	0.69
33:D7:41:ARG:HH22	36:DA:460:A:P	2.15	0.69
36:DA:298:G:H21	36:DA:339:U:H5	1.39	0.69
36:DA:1041:C:O2'	36:DA:1042:G:H5'	1.90	0.69
36:DA:1058:G:H2'	36:DA:1059:G:C5'	2.22	0.69
36:DA:1175:U:O3'	36:DA:1176:G:H3'	1.92	0.69
36:DA:1818:U:C2'	39:DD:157:ARG:HG3	2.21	0.69
36:DA:2640:G:C2'	36:DA:2641:G:H5''	2.22	0.69
38:DC:30:LYS:HA	38:DC:30:LYS:HZ3	1.56	0.69
49:DQ:132:VAL:HG11	58:DZ:81:ARG:HD2	1.74	0.69
51:DS:12:PHE:O	51:DS:14:VAL:HG23	1.91	0.69
55:DW:14:PRO:CG	55:DW:78:GLU:HB2	2.21	0.69
55:DW:50:VAL:O	55:DW:105:VAL:HG21	1.91	0.69
58:DZ:58:VAL:HA	58:DZ:67:LEU:O	1.92	0.69
1:AA:751:U:H4'	15:AO:24:SER:CB	2.22	0.69
3:AC:95:THR:CG2	3:AC:97:LYS:HG3	2.21	0.69
20:AT:56:MET:HG3	20:AT:84:LEU:HG	1.73	0.69
25:AZ:143:ASP:O	25:AZ:147:LEU:HD23	1.91	0.69
31:B5:43:HIS:CE1	36:BA:2816:C:H1'	2.27	0.69
36:BA:271(U):G:O2'	36:BA:271(V):G:H5'	1.92	0.69
36:BA:298:G:H21	36:BA:339:U:H5	1.40	0.69
36:BA:1827:C:H2'	36:BA:1828:G:O4'	1.93	0.69
40:BE:47:VAL:HG21	40:BE:86:PRO:HD2	1.74	0.69
41:BF:154:VAL:HG13	41:BF:191:ARG:O	1.91	0.69
42:BG:62:LEU:HD12	42:BG:62:LEU:H	1.57	0.69
42:BG:77:ILE:HG22	42:BG:80:PHE:H	1.56	0.69
48:BP:105:LEU:HD12	48:BP:105:LEU:H	1.57	0.69
51:BS:83:LYS:HG2	51:BS:105:ALA:HB2	1.73	0.69
53:BU:107:ALA:O	53:BU:110:VAL:HB	1.93	0.69
57:BY:81:LYS:HD2	57:BY:96:ILE:HD12	1.74	0.69
1:CA:520:A:N1	1:CA:536:C:H1'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:662:G:H2'	1:CA:663:A:H8	1.58	0.69
4:CD:170:VAL:HG12	4:CD:171:GLY:N	2.07	0.69
20:CT:57:ARG:HB2	20:CT:57:ARG:HH11	1.58	0.69
29:D3:12:PRO:HG2	29:D3:13:ILE:H	1.57	0.69
36:DA:94(A):G:H2'	36:DA:95:G:C5'	2.18	0.69
36:DA:265:A:H1'	36:DA:266:G:O4'	1.92	0.69
36:DA:669:G:N3	36:DA:669:G:H2'	2.06	0.69
36:DA:1246:A:H2'	36:DA:1247:A:H5'	1.74	0.69
36:DA:2201:C:H2'	36:DA:2202:C:C6	2.27	0.69
38:DC:140:PRO:C	38:DC:142:ALA:H	1.98	0.69
39:DD:34:VAL:C	39:DD:36:PRO:HD2	2.17	0.69
39:DD:76:PRO:HG2	39:DD:98:VAL:HG21	1.74	0.69
42:DG:7:LEU:HD13	42:DG:100:TRP:HE3	1.58	0.69
47:DO:86:ILE:HG22	47:DO:94:ARG:HB2	1.74	0.69
56:DX:63:LYS:HE2	56:DX:72:LYS:HG2	1.72	0.69
1:AA:769:G:O2'	1:AA:770:C:H5'	1.93	0.69
2:AB:90:MET:HE2	2:AB:90:MET:HA	1.72	0.69
7:AG:120:ILE:O	7:AG:124:LEU:HB2	1.92	0.69
9:AI:112:LYS:HD3	9:AI:112:LYS:C	2.18	0.69
20:AT:45:GLN:HB3	20:AT:91:LEU:HD13	1.74	0.69
36:BA:1087:G:H21	36:BA:1103:A:H61	1.40	0.69
36:BA:1099:G:H2'	36:BA:1100:C:C6	2.26	0.69
36:BA:1343:G:H2'	36:BA:1344:G:H5'	1.74	0.69
36:BA:1549:C:H2'	36:BA:1550:C:H5'	1.74	0.69
36:BA:2708:G:H2'	36:BA:2709:G:H8	1.56	0.69
36:BA:2892:A:H62	36:BA:2893:G:N2	1.86	0.69
41:BF:131:GLY:HA2	41:BF:138:GLU:OE1	1.92	0.69
42:BG:60:LEU:HD13	42:BG:63:ILE:HD11	1.73	0.69
50:BR:24:GLN:HB2	50:BR:44:LEU:HD21	1.72	0.69
52:BT:13:ARG:NE	52:BT:13:ARG:HA	2.07	0.69
58:BZ:163:LEU:HD21	58:BZ:165:VAL:CG2	2.22	0.69
1:CA:1527:C:H2'	1:CA:1528:U:C6	2.27	0.69
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.39	0.69
3:CC:64:VAL:O	3:CC:100:ALA:HB3	1.91	0.69
3:CC:207:VAL:O	3:CC:207:VAL:HG12	1.92	0.69
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.27	0.69
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.74	0.69
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.07	0.69
10:CJ:38:ILE:HD11	10:CJ:71:LEU:CD2	2.23	0.69
12:CL:92:ASP:O	12:CL:93:LEU:HD23	1.92	0.69
22:CW:59:U:H2'	22:CW:60:U:H5'	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:29:C:H42	24:CY:41:G:H1	1.41	0.69
26:D0:41:ARG:NH2	36:DA:2387:U:H1'	2.07	0.69
31:D5:2:ALA:N	36:DA:2015:A:H1'	2.07	0.69
36:DA:31:C:H2'	36:DA:32:C:C5'	2.21	0.69
36:DA:442:G:O4'	41:DF:46:ARG:HD3	1.92	0.69
36:DA:1064:C:H3'	36:DA:1065:U:C5'	2.20	0.69
36:DA:2023:G:H5'	36:DA:2617:C:H4'	1.75	0.69
36:DA:2037:G:H2'	36:DA:2038:G:C8	2.27	0.69
40:DE:169:ASN:ND2	40:DE:169:ASN:O	2.22	0.69
41:DF:139:PHE:CE1	41:DF:143:ALA:HB2	2.27	0.69
46:DN:129:PRO:O	46:DN:130:HIS:HB3	1.90	0.69
49:DQ:42:ILE:C	49:DQ:94:VAL:HG12	2.17	0.69
49:DQ:63:LYS:HD2	58:DZ:175:VAL:HG21	1.74	0.69
50:DR:100:LEU:HD22	50:DR:100:LEU:H	1.55	0.69
58:DZ:168:GLU:O	58:DZ:168:GLU:HG3	1.93	0.69
1:AA:967:C:H2'	1:AA:968:A:C8	2.27	0.69
1:AA:1337:G:H5''	1:AA:1338:G:OP1	1.91	0.69
1:AA:1375:A:H2'	1:AA:1376:U:O4'	1.93	0.69
4:AD:150:GLU:CD	4:AD:151:LYS:H	2.00	0.69
8:AH:14:ARG:HG3	8:AH:83:ILE:HG23	1.75	0.69
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.28	0.69
14:AN:22:THR:O	14:AN:23:ARG:HB3	1.91	0.69
28:B2:47:ASN:ND2	36:BA:94(A):G:H21	1.90	0.69
28:B2:53:LEU:HA	28:B2:56:GLN:HB2	1.74	0.69
36:BA:747:U:H5	36:BA:2613:U:C5	2.10	0.69
36:BA:1019:U:H3	36:BA:1142(A):A:H62	1.41	0.69
36:BA:1428:C:N4	36:BA:1569:A:H3'	2.07	0.69
36:BA:1516:C:C3'	36:BA:1517:G:H5''	2.21	0.69
36:BA:2866:U:C6	36:BA:2868:A:H1'	2.26	0.69
38:BC:137:LEU:O	38:BC:139:ASN:N	2.24	0.69
40:BE:169:ASN:ND2	40:BE:169:ASN:O	2.25	0.69
41:BF:108:LYS:O	41:BF:112:MET:HB2	1.92	0.69
42:BG:76:SER:OG	42:BG:83:ARG:HB3	1.93	0.69
42:BG:155:MET:O	42:BG:157:ILE:HG13	1.92	0.69
48:BP:102:ARG:HB2	48:BP:102:ARG:NH2	2.07	0.69
50:BR:100:LEU:HD22	50:BR:100:LEU:N	2.08	0.69
1:CA:346:G:C5'	52:DT:41:ARG:HH21	2.03	0.69
1:CA:621:A:O2'	1:CA:622:A:H5'	1.92	0.69
1:CA:1119:C:H2'	1:CA:1120:G:C8	2.27	0.69
3:CC:68:VAL:HG12	3:CC:70:VAL:CG2	2.22	0.69
4:CD:88:VAL:HG12	4:CD:90:GLY:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.25	0.69
27:D1:13:ILE:HD11	36:DA:396:G:C5'	2.11	0.69
36:DA:628:G:C2'	36:DA:629:G:H5''	2.23	0.69
36:DA:764:A:H3'	36:DA:765:G:H5'	1.72	0.69
36:DA:1224:C:O3'	54:DV:86:GLY:HA3	1.92	0.69
36:DA:1657:C:O5'	36:DA:1657:C:H6	1.74	0.69
36:DA:1754:C:H5''	52:DT:113:LYS:HZ2	1.56	0.69
36:DA:2707:G:O2'	36:DA:2708:G:H5'	1.93	0.69
38:DC:79:LYS:HG2	38:DC:118:ASP:OD2	1.93	0.69
43:DH:87:LEU:HD23	43:DH:164:TYR:HA	1.74	0.69
49:DQ:44:ALA:O	49:DQ:47:ILE:HB	1.91	0.69
54:DV:39:LEU:HD22	54:DV:39:LEU:H	1.55	0.69
1:AA:386:C:H2'	1:AA:387:U:C5'	2.18	0.69
1:AA:390:C:O3'	16:AP:28:ARG:NH1	2.25	0.69
1:AA:1054:C:C6	1:AA:1196:U:C4	2.80	0.69
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.73	0.69
20:AT:57:ARG:NH1	20:AT:102:GLY:HA3	2.08	0.69
20:AT:62:LEU:O	20:AT:62:LEU:HD23	1.91	0.69
25:AZ:67:HIS:HA	25:AZ:79:HIS:O	1.93	0.69
25:AZ:234:ARG:HD2	25:AZ:289:LEU:CD2	2.22	0.69
25:AZ:342:PHE:CD2	25:AZ:388:ILE:HG12	2.28	0.69
33:B7:11:LYS:HE2	36:BA:686:G:N3	2.07	0.69
36:BA:130:C:O3'	36:BA:1349:A:H1'	1.93	0.69
36:BA:272(B):G:H1	36:BA:366:C:H42	1.38	0.69
36:BA:635:C:H2'	36:BA:636:G:O4'	1.91	0.69
36:BA:1564:C:O2'	36:BA:1565:C:H5'	1.92	0.69
38:BC:2:LYS:HD3	38:BC:2:LYS:O	1.93	0.69
49:BQ:43:THR:C	49:BQ:45:GLN:HE21	2.00	0.69
49:BQ:43:THR:OG1	49:BQ:46:GLN:HG3	1.92	0.69
1:CA:807:A:H2'	1:CA:808:C:C6	2.28	0.69
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.58	0.69
6:CF:19:LEU:HD23	6:CF:20:ALA:N	2.08	0.69
13:CM:2:ALA:O	13:CM:9:ILE:HG23	1.92	0.69
22:CW:3:C:H2'	22:CW:4:C:O4'	1.91	0.69
25:CZ:139:ASP:O	25:CZ:140:MET:HG2	1.91	0.69
27:D1:16:ASN:HD21	27:D1:37:ILE:HG22	1.57	0.69
36:DA:2001:A:H4'	36:DA:2689:U:H2'	1.75	0.69
36:DA:2186:G:H2'	36:DA:2187:G:C8	2.28	0.69
42:DG:4:ASP:HA	42:DG:8:LYS:HG2	1.74	0.69
42:DG:67:LYS:HD3	42:DG:67:LYS:N	2.08	0.69
42:DG:138:GLN:OE1	42:DG:153:ARG:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:85:LYS:HZ1	43:DH:132:ARG:HA	1.58	0.69
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.91	0.69
49:DQ:36:ALA:C	49:DQ:37:LEU:HD23	2.18	0.69
49:DQ:141:GLN:C	58:DZ:53:ILE:HB	2.17	0.69
51:DS:37:ALA:HB2	51:DS:99:LYS:NZ	2.07	0.69
55:DW:3:ALA:O	55:DW:106:ILE:HA	1.91	0.69
1:AA:269:C:H2'	1:AA:270:A:C8	2.27	0.69
1:AA:517:G:H5'	1:AA:519:C:O2	1.93	0.69
1:AA:688:G:H2'	1:AA:689:C:C6	2.26	0.69
1:AA:932:C:H5''	7:AG:3:ARG:CD	2.23	0.69
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.57	0.69
1:AA:965:A:O2'	1:AA:966:G:H5''	1.93	0.69
1:AA:993:G:N3	1:AA:993:G:H2'	2.06	0.69
3:AC:30:ARG:CD	14:AN:38:GLY:HA3	2.22	0.69
4:AD:67:ILE:HG22	4:AD:68:TYR:CE1	2.26	0.69
6:AF:25:ILE:HA	6:AF:28:ARG:HD2	1.75	0.69
7:AG:72:ARG:HG2	7:AG:73:MET:HG3	1.73	0.69
13:AM:19:LEU:O	13:AM:22:ILE:HD13	1.92	0.69
16:AP:21:VAL:HG12	16:AP:34:GLU:O	1.92	0.69
22:AW:57:G:C2'	22:AW:58:A:H5'	2.23	0.69
25:AZ:38:GLU:CD	25:AZ:200:TRP:HH2	2.00	0.69
28:B2:14:ARG:O	28:B2:67:LYS:NZ	2.24	0.69
36:BA:31:C:H2'	36:BA:32:C:O4'	1.93	0.69
36:BA:94(A):G:H2'	36:BA:95:G:C5'	2.18	0.69
36:BA:142:A:H5'	36:BA:142(A):C:OP2	1.92	0.69
36:BA:2345:G:N3	36:BA:2381:C:H2'	2.07	0.69
36:BA:2640:G:C2'	36:BA:2641:G:H5''	2.21	0.69
41:BF:46:ARG:HG3	41:BF:46:ARG:NH1	2.08	0.69
41:BF:61:GLY:O	41:BF:62:ARG:C	2.35	0.69
42:BG:141:PHE:HB2	42:BG:144:ILE:CG2	2.22	0.69
43:BH:41:MET:HG3	43:BH:42:ARG:N	2.07	0.69
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.56	0.69
1:CA:552:U:H2'	1:CA:553:A:C8	2.26	0.69
1:CA:1003:G:N2	1:CA:1039:C:H42	1.90	0.69
1:CA:1349:A:OP1	9:CI:120:ARG:HB2	1.91	0.69
13:CM:120:LYS:O	13:CM:121:LYS:HG3	1.93	0.69
22:CV:40:C:H2'	22:CV:41:C:H6	1.58	0.69
28:D2:32:LEU:HD12	28:D2:57:ILE:HG13	1.73	0.69
36:DA:74:A:H5''	36:DA:75:G:H1'	1.75	0.69
36:DA:1514:U:H2'	36:DA:1515:G:C8	2.27	0.69
37:DB:65:C:H2'	37:DB:109:C:H41	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:144:ALA:HB3	39:DD:192:THR:HG22	1.75	0.69
41:DF:20:LEU:HD12	41:DF:199:TRP:HH2	1.56	0.69
41:DF:184:TYR:HE1	48:DP:7:ARG:NH2	1.91	0.69
43:DH:76:VAL:O	43:DH:79:VAL:HG22	1.93	0.69
43:DH:130:ARG:HB3	43:DH:130:ARG:NH1	2.07	0.69
49:DQ:66:ILE:O	49:DQ:66:ILE:HG13	1.93	0.69
1:AA:22:G:H4'	1:AA:885:G:C8	2.28	0.69
1:AA:642:A:H1'	8:AH:113:SER:OG	1.92	0.69
1:AA:1359:C:P	14:AN:22:THR:HG21	2.32	0.69
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.22	0.69
7:AG:139:GLU:O	7:AG:143:ARG:HG3	1.92	0.69
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.11	0.69
8:AH:119:LEU:N	8:AH:119:LEU:HD23	2.08	0.69
11:AK:25:TYR:HE1	11:AK:87:THR:HB	1.58	0.69
13:AM:30:ALA:C	13:AM:32:GLU:H	1.99	0.69
19:AS:16:LEU:HA	19:AS:19:VAL:CB	2.13	0.69
23:AX:20:U:O2'	23:AX:21:C:H5'	1.93	0.69
25:AZ:223:MET:HE3	25:AZ:223:MET:O	1.92	0.69
27:B1:73:LEU:HB3	27:B1:94:LEU:HD23	1.74	0.69
32:B6:36:LEU:HD23	32:B6:36:LEU:C	2.18	0.69
36:BA:271(H):G:O2'	36:BA:271(I):G:H8	1.73	0.69
36:BA:2161:C:H2'	36:BA:2162:G:C8	2.23	0.69
54:BV:39:LEU:HD22	54:BV:39:LEU:H	1.56	0.69
1:CA:16:A:O2'	1:CA:17:U:H5'	1.93	0.69
1:CA:157:G:H2'	1:CA:158:G:H8	1.58	0.69
1:CA:512:U:H2'	1:CA:513:C:H6	1.57	0.69
1:CA:892:A:H2'	1:CA:893:C:H6	1.57	0.69
5:CE:12:LEU:HD22	5:CE:13:ILE:N	2.08	0.69
9:CI:7:THR:HG22	9:CI:8:GLY:H	1.57	0.69
10:CJ:14:LYS:C	10:CJ:16:LEU:H	2.01	0.69
12:CL:41:ARG:HG3	12:CL:41:ARG:HH11	1.56	0.69
13:CM:13:LYS:O	13:CM:45:VAL:HG23	1.93	0.69
14:CN:22:THR:CB	14:CN:33:VAL:HG21	2.21	0.69
15:CO:25:THR:O	15:CO:29:VAL:HG23	1.93	0.69
19:CS:5:LEU:HD12	19:CS:8:GLY:O	1.91	0.69
19:CS:31:ILE:HG23	19:CS:49:ILE:HA	1.73	0.69
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.08	0.69
27:D1:58:ILE:HD11	27:D1:91:LYS:HD2	1.72	0.69
34:D8:24:ALA:O	34:D8:46:ARG:HA	1.92	0.69
35:D9:29:ASN:HD21	35:D9:32:HIS:CE1	2.11	0.69
36:DA:34:C:N4	36:DA:447:A:H61	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:271(U):G:O2'	36:DA:271(V):G:H5'	1.92	0.69
36:DA:382:G:O2'	36:DA:383:U:H5'	1.92	0.69
36:DA:537:C:H42	36:DA:556:G:H22	1.40	0.69
36:DA:635:C:H2'	36:DA:636:G:O4'	1.92	0.69
36:DA:654(V):A:H8	36:DA:655:A:H2'	1.57	0.69
36:DA:1019:U:H3	36:DA:1142(A):A:H62	1.40	0.69
36:DA:2195:C:O2'	36:DA:2196:C:H5'	1.91	0.69
36:DA:2350:C:H2'	36:DA:2351:G:O4'	1.92	0.69
38:DC:103:ILE:HG23	38:DC:107:TRP:HB2	1.74	0.69
41:DF:154:VAL:HG11	41:DF:193:VAL:CG2	2.22	0.69
49:DQ:43:THR:C	49:DQ:45:GLN:HE21	2.01	0.69
50:DR:32:GLY:CA	50:DR:116:LEU:HG	2.23	0.69
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.90	0.69
51:DS:42:ASP:C	51:DS:44:LYS:H	2.01	0.69
55:DW:37:ARG:HH11	55:DW:37:ARG:HG3	1.58	0.69
58:DZ:51:ALA:HA	58:DZ:55:HIS:HD2	1.56	0.69
1:AA:660:G:H2'	1:AA:661:G:H8	1.58	0.69
1:AA:841:U:O2'	1:AA:848:C:H5'	1.93	0.69
9:AI:33:PHE:CZ	9:AI:47:LEU:HD11	2.28	0.69
12:AL:92:ASP:O	12:AL:93:LEU:HD23	1.93	0.69
36:BA:525:U:O5'	36:BA:556:G:H5'	1.93	0.69
36:BA:537:C:H42	36:BA:556:G:H22	1.41	0.69
36:BA:817:C:H2'	36:BA:818:G:O4'	1.93	0.69
36:BA:832:G:OP1	48:BP:40:SER:HB2	1.93	0.69
36:BA:1242:A:C6	48:BP:8:PRO:HG3	2.28	0.69
36:BA:1297:C:H2'	36:BA:1298:C:C6	2.28	0.69
36:BA:1473:G:H2'	36:BA:1474:C:O4'	1.93	0.69
36:BA:1639:U:H2'	36:BA:1640:C:H5''	1.74	0.69
36:BA:2716:U:O2'	36:BA:2717:G:H5'	1.93	0.69
38:BC:23:ASP:CB	38:BC:27:ARG:HH12	1.98	0.69
48:BP:84:ASN:C	48:BP:86:LYS:N	2.50	0.69
1:CA:274:A:O2'	1:CA:275:G:O4'	2.10	0.69
1:CA:859:A:H2'	1:CA:860:A:O4'	1.93	0.69
5:CE:110:LEU:CD2	5:CE:115:VAL:HG21	2.23	0.69
22:CW:57:G:C2'	22:CW:58:A:H5'	2.22	0.69
25:CZ:356:PRO:O	25:CZ:359:VAL:CG2	2.30	0.69
36:DA:1428:C:N4	36:DA:1569:A:H3'	2.08	0.69
36:DA:1664:A:H1'	36:DA:2726:U:C5	2.28	0.69
36:DA:2262:U:H2'	36:DA:2263:C:H6	1.56	0.69
36:DA:2745:C:H1'	43:DH:143:GLN:HG2	1.74	0.69
39:DD:4:LYS:NZ	39:DD:20:ASP:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:125:PHE:O	42:DG:127:GLY:N	2.26	0.69
46:DN:21:LYS:HD3	46:DN:22:THR:N	2.07	0.69
46:DN:36:GLY:H	46:DN:49:GLY:CA	2.06	0.69
52:DT:24:PRO:HD3	52:DT:52:ILE:CD1	2.20	0.69
5:AE:100:VAL:HG23	5:AE:107:ARG:NH2	2.08	0.69
7:AG:70:LYS:C	7:AG:138:LYS:HE3	2.18	0.69
9:AI:10:ARG:O	9:AI:11:LYS:HB3	1.92	0.69
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.08	0.69
24:AY:1:G:N3	24:AY:1:G:H2'	2.08	0.69
31:B5:5:PRO:HA	36:BA:2056:G:H22	1.58	0.69
32:B6:11:LEU:HD22	32:B6:12:GLU:H	1.58	0.69
36:BA:935:C:H2'	36:BA:936:C:H6	1.58	0.69
36:BA:2186:G:H2'	36:BA:2187:G:C8	2.28	0.69
38:BC:127:LEU:HD22	38:BC:130:ILE:HD12	1.74	0.69
39:BD:76:PRO:HG2	39:BD:98:VAL:HG21	1.74	0.69
1:CA:407:G:H2'	1:CA:408:A:C8	2.28	0.69
1:CA:1189:C:H5''	3:CC:5:ILE:CG2	2.13	0.69
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.74	0.69
4:CD:85:LYS:HD3	4:CD:92:VAL:CG1	2.23	0.69
20:CT:65:LYS:HA	20:CT:68:LYS:HG3	1.74	0.69
23:CX:20:U:H2'	23:CX:21:C:C6	2.27	0.69
25:CZ:241:ARG:HA	25:CZ:285:ASN:ND2	2.07	0.69
34:D8:19:SER:HB2	36:DA:651:G:OP1	1.92	0.69
36:DA:176:G:O2'	36:DA:177:G:H5'	1.93	0.69
36:DA:601:C:O2	36:DA:605:C:H5''	1.93	0.69
36:DA:1231:G:H2'	36:DA:1232:G:H8	1.58	0.69
36:DA:1681:G:O2'	36:DA:1762:A:H2'	1.92	0.69
36:DA:1946:U:H2'	36:DA:1947:C:H6	1.58	0.69
37:DB:17:C:H2'	37:DB:18:G:C8	2.28	0.69
48:DP:105:LEU:HD12	48:DP:105:LEU:H	1.58	0.69
49:DQ:45:GLN:H	49:DQ:45:GLN:HE21	1.41	0.69
52:DT:94:ALA:C	52:DT:96:ARG:H	2.01	0.69
58:DZ:14:LYS:HB2	58:DZ:17:ALA:HB2	1.75	0.69
58:DZ:16:SER:O	58:DZ:20:ARG:HG2	1.93	0.69
1:AA:707:C:O2'	1:AA:708:C:H5'	1.94	0.68
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.58	0.68
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.27	0.68
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.73	0.68
4:AD:100:ARG:HH21	4:AD:118:ARG:NH1	1.81	0.68
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.76	0.68
17:AQ:56:VAL:CG2	17:AQ:81:ARG:HG3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:241:ARG:HA	25:AZ:285:ASN:ND2	2.08	0.68
27:B1:71:TYR:HA	27:B1:74:VAL:HG23	1.74	0.68
30:B4:6:HIS:CB	42:BG:67:LYS:HE3	2.22	0.68
36:BA:92:A:H2'	36:BA:93:G:O4'	1.92	0.68
36:BA:1292:U:H2'	36:BA:1293:C:C6	2.28	0.68
36:BA:2712:U:O2'	36:BA:2712(A):A:H3'	1.93	0.68
36:BA:2825:C:H6	36:BA:2825:C:O5'	1.76	0.68
39:BD:24:ILE:HD13	39:BD:25:THR:H	1.59	0.68
39:BD:34:VAL:C	39:BD:36:PRO:HD2	2.18	0.68
39:BD:81:ALA:HA	39:BD:113:VAL:CG2	2.23	0.68
41:BF:117:ARG:HG2	41:BF:192:LEU:HD13	1.75	0.68
48:BP:10:PRO:O	48:BP:11:GLY:O	2.11	0.68
50:BR:32:GLY:CA	50:BR:116:LEU:HG	2.23	0.68
53:BU:34:LYS:HE2	53:BU:34:LYS:HA	1.75	0.68
58:BZ:133:ILE:N	58:BZ:134:PRO:HD3	2.08	0.68
1:CA:693:G:O2'	1:CA:694:A:H5'	1.93	0.68
13:CM:30:ALA:C	13:CM:32:GLU:H	2.01	0.68
25:CZ:104:LEU:HD11	25:CZ:116:THR:HG23	1.75	0.68
25:CZ:215:ARG:HB3	25:CZ:282:ALA:CB	2.23	0.68
27:D1:44:PRO:HG2	27:D1:46:LEU:HD22	1.73	0.68
33:D7:12:ARG:HG3	36:DA:686:G:O6	1.92	0.68
36:DA:2110:G:N2	36:DA:2178:C:H41	1.92	0.68
46:DN:75:TYR:CD1	46:DN:82:LEU:HB2	2.24	0.68
50:DR:61:HIS:CE1	50:DR:65:LEU:HD22	2.28	0.68
53:DU:47:TYR:HA	53:DU:50:ARG:HD2	1.74	0.68
57:DY:14:LEU:HD13	57:DY:24:VAL:HG22	1.74	0.68
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.56	0.68
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.28	0.68
12:AL:113:ARG:CB	12:AL:122:THR:HG21	2.23	0.68
36:BA:461:C:O2'	36:BA:462:C:H5'	1.94	0.68
36:BA:1122:G:O2'	36:BA:1123:C:H5'	1.93	0.68
36:BA:1693:U:H5'	36:BA:1693:U:C6	2.27	0.68
36:BA:2756:U:H1'	36:BA:2757:A:H5''	1.76	0.68
41:BF:136:THR:O	41:BF:140:LEU:HB2	1.92	0.68
42:BG:29:TRP:HA	42:BG:29:TRP:CE3	2.27	0.68
48:BP:86:LYS:HB3	48:BP:86:LYS:NZ	2.08	0.68
57:BY:82:PRO:O	57:BY:96:ILE:HG22	1.93	0.68
1:CA:59:A:H1'	1:CA:354:G:N2	2.08	0.68
1:CA:1258:G:O2'	1:CA:1259:C:H5'	1.93	0.68
1:CA:1348:U:HO2'	1:CA:1349:A:H8	1.41	0.68
2:CB:170:GLU:HA	2:CB:172:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:78:GLU:HA	6:CF:81:ILE:HD11	1.74	0.68
7:CG:79:ARG:NH2	22:CW:33:U:H4'	2.08	0.68
12:CL:20:LYS:HD3	12:CL:20:LYS:H	1.58	0.68
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.76	0.68
24:CY:33:U:H2'	24:CY:34:G:H3'	1.75	0.68
25:CZ:97:ALA:N	25:CZ:126:VAL:HG11	2.08	0.68
36:DA:31:C:C2'	36:DA:32:C:H5''	2.23	0.68
36:DA:94(A):G:C2'	36:DA:95:G:H5''	2.19	0.68
36:DA:193:U:H3	36:DA:202:U:H3	1.40	0.68
36:DA:968:G:H2'	36:DA:969:U:C6	2.28	0.68
36:DA:1549:C:H2'	36:DA:1550:C:H5'	1.75	0.68
36:DA:2777:G:H5''	36:DA:2778:A:C5'	2.23	0.68
39:DD:95:LEU:HD12	39:DD:103:ARG:O	1.92	0.68
39:DD:210:GLY:O	39:DD:211:ARG:HB3	1.92	0.68
40:DE:165:VAL:HG12	40:DE:166:THR:N	2.09	0.68
41:DF:178:PRO:HB2	41:DF:201:VAL:HG11	1.75	0.68
46:DN:86:PRO:HG2	46:DN:89:LYS:HG2	1.74	0.68
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	2.08	0.68
57:DY:96:ILE:HD11	57:DY:99:CYS:SG	2.33	0.68
1:AA:84:U:H2'	1:AA:88:A:H5'	1.73	0.68
1:AA:157:G:H2'	1:AA:158:G:H8	1.59	0.68
1:AA:568:G:O6	12:AL:5:PRO:HD3	1.93	0.68
3:AC:16:ARG:HH21	3:AC:183:ASP:HA	1.58	0.68
7:AG:31:MET:HG2	7:AG:32:ARG:N	2.08	0.68
8:AH:9:MET:HG3	8:AH:26:VAL:HG21	1.73	0.68
15:AO:25:THR:O	15:AO:29:VAL:HG23	1.93	0.68
25:AZ:176:LEU:HB2	62:AZ:501:GDP:C5	2.27	0.68
25:AZ:186:PRO:O	25:AZ:187:LYS:HG3	1.93	0.68
25:AZ:263:ARG:HH21	25:AZ:297:GLU:HB3	1.57	0.68
29:B3:10:LYS:O	29:B3:53:LEU:HD22	1.93	0.68
34:B8:24:ALA:HA	34:B8:46:ARG:NH1	2.08	0.68
36:BA:696:G:H2'	36:BA:696:G:N3	2.08	0.68
36:BA:2110:G:N2	36:BA:2178:C:H41	1.89	0.68
45:BK:31:UNK:O	45:BK:63:UNK:HA	1.92	0.68
52:BT:19:LEU:HD13	52:BT:78:LEU:HD22	1.74	0.68
52:BT:28:VAL:CG2	52:BT:46:GLU:HA	2.23	0.68
54:BV:19:LYS:HA	54:BV:19:LYS:HE2	1.75	0.68
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.28	0.68
7:CG:139:GLU:O	7:CG:143:ARG:HG3	1.93	0.68
9:CI:10:ARG:O	9:CI:11:LYS:HB3	1.92	0.68
27:D1:83:GLU:OE1	27:D1:83:GLU:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:10:ALA:HA	34:D8:13:ARG:CG	2.20	0.68
35:D9:36:GLN:NE2	36:DA:1031:G:H21	1.90	0.68
36:DA:302:C:H42	36:DA:315:G:H1	1.41	0.68
36:DA:672:C:H2'	36:DA:673:C:H5''	1.76	0.68
36:DA:782:A:C6	39:DD:226:MET:HE3	2.28	0.68
36:DA:935:C:H2'	36:DA:936:C:H6	1.59	0.68
36:DA:1568:G:P	39:DD:63:ARG:HH22	2.16	0.68
36:DA:2574:G:H2'	36:DA:2575:C:O4'	1.93	0.68
36:DA:2673:G:H8	36:DA:2673:G:H5'	1.58	0.68
43:DH:33:LEU:CD1	43:DH:75:ALA:HA	2.23	0.68
52:DT:23:ARG:O	52:DT:25:GLY:N	2.26	0.68
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.47	0.68
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.08	0.68
57:DY:96:ILE:CG1	57:DY:99:CYS:HB3	2.18	0.68
58:DZ:71:VAL:HG11	58:DZ:74:VAL:CG2	2.23	0.68
1:AA:957:U:H4'	19:AS:79:THR:HB	1.74	0.68
1:AA:1351:U:O2'	1:AA:1352:C:H5'	1.94	0.68
1:AA:1444:C:H2'	1:AA:1445:C:C6	2.29	0.68
1:AA:1498:U:C6	23:AX:20:U:H5'	2.29	0.68
2:AB:7:VAL:HG13	2:AB:11:LEU:HD11	1.74	0.68
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	1.73	0.68
4:AD:19:LEU:O	4:AD:31:CYS:SG	2.51	0.68
13:AM:90:LEU:O	13:AM:91:ARG:HB2	1.93	0.68
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.74	0.68
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.74	0.68
19:AS:51:VAL:HG12	19:AS:52:TYR:N	2.09	0.68
23:AX:23:C:H2'	23:AX:24:C:H6	1.57	0.68
34:B8:49:VAL:CG1	34:B8:53:PRO:HD3	2.22	0.68
36:BA:650:C:C3'	36:BA:651:G:H5''	2.23	0.68
36:BA:1341:U:O2'	36:BA:1342:A:H5'	1.93	0.68
36:BA:1565:C:H2'	39:BD:21:PHE:HE1	1.58	0.68
36:BA:2001:A:H4'	36:BA:2689:U:H2'	1.75	0.68
36:BA:2123:G:H2'	36:BA:2124:G:H8	1.59	0.68
36:BA:2772:C:H2'	36:BA:2773:C:C6	2.28	0.68
38:BC:40:THR:HG23	38:BC:177:LYS:HD2	1.74	0.68
40:BE:4:ILE:CD1	40:BE:28:ALA:HB1	2.24	0.68
42:BG:9:ARG:C	42:BG:11:TYR:H	1.99	0.68
58:BZ:58:VAL:HG13	58:BZ:67:LEU:C	2.18	0.68
1:CA:178:C:H2'	1:CA:179:A:C8	2.28	0.68
1:CA:189(I):G:H2'	1:CA:189(J):G:H8	1.58	0.68
1:CA:256:U:H2'	1:CA:257:G:C8	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:936:C:O2'	1:CA:937:A:H5'	1.93	0.68
1:CA:957:U:H4'	19:CS:79:THR:HB	1.74	0.68
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.08	0.68
3:CC:30:ARG:CD	14:CN:38:GLY:HA3	2.22	0.68
7:CG:144:MET:O	7:CG:148:ASN:ND2	2.26	0.68
8:CH:29:SER:HB3	8:CH:32:LYS:HB2	1.74	0.68
16:CP:8:ARG:HH22	16:CP:15:PRO:HG3	1.55	0.68
20:CT:56:MET:HG3	20:CT:84:LEU:HG	1.75	0.68
27:D1:45:ASN:HB3	27:D1:64:ALA:HB2	1.74	0.68
36:DA:258:G:O2'	36:DA:259:G:H5'	1.94	0.68
36:DA:328:U:H4'	57:DY:68:HIS:NE2	2.09	0.68
36:DA:448:U:O4	36:DA:583:G:H1'	1.94	0.68
36:DA:1899:G:N2	36:DA:1902:C:N4	2.41	0.68
36:DA:2345:G:N3	36:DA:2381:C:H2'	2.08	0.68
52:DT:28:VAL:CG2	52:DT:46:GLU:HA	2.23	0.68
54:DV:95:LEU:HD23	54:DV:95:LEU:C	2.18	0.68
55:DW:65:LEU:HD23	55:DW:68:ARG:HD2	1.76	0.68
1:AA:142:G:H1	1:AA:221:C:H42	1.40	0.68
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.75	0.68
3:AC:96:GLY:O	3:AC:97:LYS:HG2	1.94	0.68
12:AL:41:ARG:HG3	12:AL:41:ARG:HH11	1.57	0.68
13:AM:66:LEU:HA	13:AM:70:LEU:CD1	2.19	0.68
26:B0:50:ASN:HD22	26:B0:63:VAL:HG21	1.58	0.68
35:B9:29:ASN:HD21	35:B9:32:HIS:CE1	2.11	0.68
36:BA:111:A:H2'	36:BA:112:U:O4'	1.93	0.68
36:BA:702:G:O2'	36:BA:703:U:H5'	1.94	0.68
36:BA:751:A:C5'	55:BW:90:ARG:HA	2.24	0.68
36:BA:2302:G:H1'	42:BG:128:ARG:HG3	1.75	0.68
37:BB:112:U:H2'	37:BB:113:G:C8	2.28	0.68
38:BC:86:ALA:HB3	38:BC:94:VAL:HG11	1.74	0.68
40:BE:167:VAL:HG11	40:BE:188:VAL:HA	1.76	0.68
46:BN:86:PRO:HG2	46:BN:89:LYS:HG2	1.75	0.68
58:BZ:7:ALA:HB2	58:BZ:59:LEU:HD13	1.75	0.68
1:CA:996:A:H2'	1:CA:997:U:C6	2.28	0.68
1:CA:1352:C:H42	1:CA:1370:G:H1	1.41	0.68
3:CC:16:ARG:HH21	3:CC:183:ASP:HA	1.58	0.68
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	1.75	0.68
7:CG:70:LYS:O	7:CG:138:LYS:HE3	1.93	0.68
13:CM:19:LEU:O	13:CM:22:ILE:HD13	1.93	0.68
13:CM:86:CYS:O	13:CM:89:GLY:N	2.23	0.68
20:CT:16:HIS:O	20:CT:19:SER:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:137:LYS:HA	62:CZ:501:GDP:C6	2.27	0.68
25:CZ:342:PHE:CD2	25:CZ:388:ILE:HG12	2.28	0.68
30:D4:5:ILE:O	30:D4:5:ILE:HG12	1.91	0.68
32:D6:11:LEU:HD22	32:D6:12:GLU:H	1.58	0.68
36:DA:471:A:H2'	36:DA:472:A:C5'	2.24	0.68
36:DA:716:A:H2'	36:DA:717:G:H5''	1.74	0.68
36:DA:1021:A:H8	36:DA:1022:G:H4'	1.58	0.68
36:DA:1146:C:O2'	36:DA:1147:C:H5'	1.93	0.68
36:DA:1242:A:C6	48:DP:8:PRO:HG3	2.28	0.68
36:DA:2036:C:H6	36:DA:2036:C:H5'	1.57	0.68
36:DA:2073:C:H4'	39:DD:228:PRO:HB2	1.75	0.68
37:DB:112:U:H2'	37:DB:113:G:C8	2.29	0.68
38:DC:2:LYS:HD3	38:DC:2:LYS:O	1.92	0.68
39:DD:144:ALA:HB3	39:DD:192:THR:CG2	2.23	0.68
42:DG:73:ALA:HB3	42:DG:85:GLY:HA2	1.74	0.68
46:DN:111:PRO:HG3	46:DN:114:ARG:NH2	2.08	0.68
48:DP:23:PRO:HD2	48:DP:33:ARG:NH2	2.08	0.68
11:AK:111:ASP:CB	18:AR:84:LYS:HD2	2.23	0.68
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	1.74	0.68
22:AW:59:U:H2'	22:AW:60:U:H5'	1.74	0.68
25:AZ:97:ALA:N	25:AZ:126:VAL:HG11	2.09	0.68
25:AZ:234:ARG:HB3	25:AZ:289:LEU:CD1	2.23	0.68
36:BA:258:G:O2'	36:BA:259:G:H5'	1.93	0.68
36:BA:729:G:N7	39:BD:208:LYS:HB2	2.09	0.68
36:BA:1018:C:H2'	36:BA:1019:U:H6	1.58	0.68
36:BA:1132:A:H2'	36:BA:1133:U:C6	2.28	0.68
36:BA:1246:A:C2'	36:BA:1247:A:H5'	2.24	0.68
36:BA:1694:C:H1'	36:BA:1695:G:N2	2.09	0.68
36:BA:1779:U:H5	36:BA:1784:A:N7	1.90	0.68
36:BA:2352:A:H2'	36:BA:2353:G:H5'	1.75	0.68
36:BA:2777:G:H5''	36:BA:2778:A:H5'	1.75	0.68
38:BC:103:ILE:HG23	38:BC:107:TRP:HB2	1.74	0.68
39:BD:239:ARG:HH21	39:BD:239:ARG:HG2	1.58	0.68
41:BF:132:VAL:HG22	41:BF:133:ASN:N	2.06	0.68
42:BG:131:TYR:CE2	42:BG:133:LEU:HB3	2.28	0.68
43:BH:52:VAL:CB	43:BH:69:ARG:HD3	2.18	0.68
50:BR:55:ALA:HA	50:BR:80:PHE:CE1	2.28	0.68
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	2.06	0.68
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.74	0.68
1:CA:20:U:H2'	1:CA:21:G:O4'	1.94	0.68
16:CP:15:PRO:HB2	16:CP:41:PRO:HG3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:313:HIS:HB3	25:CZ:403:ILE:HG21	1.76	0.68
29:D3:1:MET:HB2	29:D3:38:GLU:HG3	1.76	0.68
36:DA:218:A:H2'	36:DA:219:G:O4'	1.94	0.68
36:DA:828:U:C5	36:DA:829:A:N6	2.61	0.68
36:DA:955:C:C2'	36:DA:956:G:H5'	2.24	0.68
36:DA:1690:A:C2'	36:DA:1691:C:H5'	2.23	0.68
39:DD:154:LYS:C	39:DD:155:LEU:HD12	2.19	0.68
42:DG:66:GLN:OE1	42:DG:94:LEU:HD23	1.93	0.68
42:DG:130:ASN:HB3	42:DG:160:VAL:HA	1.74	0.68
43:DH:68:THR:HA	43:DH:71:LEU:HB2	1.75	0.68
46:DN:58:ASP:O	46:DN:60:ILE:N	2.26	0.68
48:DP:100:LEU:O	48:DP:103:ALA:HB3	1.94	0.68
48:DP:135:LEU:O	48:DP:135:LEU:HD13	1.93	0.68
50:DR:42:LYS:O	50:DR:45:ARG:HG2	1.92	0.68
51:DS:101:LEU:HD12	51:DS:101:LEU:O	1.94	0.68
52:DT:48:ILE:HD12	52:DT:64:ARG:O	1.93	0.68
1:AA:831:U:H2'	1:AA:832:C:H6	1.59	0.68
1:AA:1087:G:N2	1:AA:1099:G:H1'	2.07	0.68
1:AA:1157:A:H4'	1:AA:1158:C:O5'	1.94	0.68
2:AB:48:MET:CA	2:AB:51:LEU:HD12	2.24	0.68
10:AJ:38:ILE:HD11	10:AJ:71:LEU:CD2	2.24	0.68
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.57	0.68
31:B5:4:HIS:HB2	31:B5:5:PRO:CD	2.15	0.68
34:B8:52:LYS:N	34:B8:53:PRO:HD2	2.09	0.68
36:BA:176:G:O2'	36:BA:177:G:H5'	1.93	0.68
36:BA:664:C:O2'	36:BA:665:C:H5'	1.94	0.68
36:BA:1058:G:H2'	36:BA:1059:G:C5'	2.23	0.68
36:BA:1514:U:H2'	36:BA:1515:G:C8	2.29	0.68
36:BA:1565:C:H2'	39:BD:21:PHE:CE1	2.29	0.68
36:BA:2358:G:O2'	36:BA:2359:C:H5'	1.92	0.68
58:BZ:24:LEU:HD23	58:BZ:24:LEU:C	2.18	0.68
1:CA:306:G:O2'	1:CA:307:C:H5'	1.93	0.68
1:CA:1317:C:H2'	1:CA:1318:A:H5'	1.76	0.68
13:CM:55:ARG:HA	13:CM:58:GLU:HG3	1.76	0.68
19:CS:16:LEU:HA	19:CS:19:VAL:CB	2.11	0.68
22:CW:10:G:O2'	22:CW:11:C:H5'	1.94	0.68
24:CY:1:G:N3	24:CY:1:G:H2'	2.09	0.68
31:D5:25:LEU:O	31:D5:27:PRO:HD3	1.94	0.68
32:D6:36:LEU:HD23	32:D6:36:LEU:C	2.19	0.68
36:DA:31:C:H2'	36:DA:32:C:O4'	1.93	0.68
36:DA:817:C:H2'	36:DA:818:G:O4'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1184:G:C2'	36:DA:1185:C:H5'	2.24	0.68
36:DA:1949:G:H1	36:DA:1957:C:H42	1.38	0.68
36:DA:2181:G:H2'	36:DA:2182:G:C8	2.23	0.68
40:DE:47:VAL:HG21	40:DE:86:PRO:HD2	1.75	0.68
43:DH:23:ARG:NH1	43:DH:36:PRO:HB3	2.08	0.68
47:DO:35:VAL:HG11	47:DO:103:ALA:CB	2.23	0.68
52:DT:113:LYS:O	52:DT:114:LEU:HD23	1.93	0.68
56:DX:8:ILE:HD11	56:DX:43:VAL:HG22	1.75	0.68
1:AA:855:G:H2'	1:AA:856:C:H6	1.59	0.68
2:AB:80:ILE:H	2:AB:80:ILE:CD1	2.05	0.68
3:AC:26:LYS:HZ3	3:AC:27:LYS:HD2	1.58	0.68
7:AG:79:ARG:HG3	7:AG:83:ALA:O	1.94	0.68
10:AJ:14:LYS:C	10:AJ:16:LEU:H	2.00	0.68
13:AM:108:ARG:HA	13:AM:108:ARG:NH1	2.09	0.68
36:BA:142:A:H1'	36:BA:1408:C:H1'	1.76	0.68
36:BA:582:G:H1	36:BA:1258:C:H42	1.42	0.68
37:BB:30:C:H1'	37:BB:57:A:H61	1.58	0.68
39:BD:131:LEU:HD13	39:BD:136:ILE:HD11	1.75	0.68
42:BG:34:LEU:O	42:BG:34:LEU:HD12	1.93	0.68
46:BN:107:LEU:HB3	46:BN:108:PRO:HD2	1.75	0.68
47:BO:35:VAL:HG11	47:BO:103:ALA:CB	2.22	0.68
47:BO:64:ARG:HH21	47:BO:100:GLY:HA3	1.58	0.68
47:BO:104:ARG:HB2	47:BO:104:ARG:NH1	2.09	0.68
48:BP:146:VAL:CG2	48:BP:147:LEU:H	1.95	0.68
55:BW:1:MET:CG	55:BW:64:MET:HE3	2.24	0.68
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.23	0.68
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.19	0.68
58:BZ:5:LEU:HB2	58:BZ:59:LEU:CD2	2.24	0.68
58:BZ:165:VAL:HG12	58:BZ:166:SER:H	1.59	0.68
1:CA:817:C:H4'	1:CA:818:G:O5'	1.93	0.68
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.28	0.68
2:CB:74:LYS:HZ2	2:CB:76:GLN:HB2	1.58	0.68
2:CB:102:LEU:HB3	2:CB:180:LEU:CD1	2.24	0.68
6:CF:2:ARG:HD2	6:CF:69:GLU:HB3	1.76	0.68
6:CF:84:ASN:HD22	6:CF:84:ASN:H	1.41	0.68
13:CM:81:LEU:N	13:CM:81:LEU:HD23	2.08	0.68
13:CM:90:LEU:O	13:CM:91:ARG:HB2	1.94	0.68
36:DA:410:G:H1	36:DA:417:C:H42	1.41	0.68
36:DA:605:C:H1'	36:DA:657:U:O2'	1.93	0.68
36:DA:654(T):C:H2'	36:DA:654(U):A:O4'	1.94	0.68
36:DA:1419:A:O2'	36:DA:1420:U:H5''	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1988:C:H2'	36:DA:1989:G:O4'	1.92	0.68
36:DA:2715:C:H2'	36:DA:2716:U:H6	1.57	0.68
39:DD:24:ILE:HD13	39:DD:25:THR:H	1.59	0.68
40:DE:111:ARG:HA	50:DR:2:ARG:HG2	1.74	0.68
42:DG:57:ALA:O	42:DG:68:PRO:HG2	1.93	0.68
49:DQ:43:THR:OG1	49:DQ:46:GLN:HG3	1.92	0.68
53:DU:14:HIS:HD2	53:DU:32:PHE:CB	2.07	0.68
58:DZ:17:ALA:O	58:DZ:20:ARG:HG2	1.94	0.68
1:AA:778:G:H1	1:AA:804:U:H3	1.42	0.68
14:AN:48:ALA:CB	14:AN:53:LEU:HD12	2.24	0.68
18:AR:58:LEU:CD2	18:AR:62:GLU:HB3	2.24	0.68
35:B9:13:LYS:HD2	35:B9:28:GLU:HB2	1.75	0.68
36:BA:536:A:H2	36:BA:557:U:H3	1.42	0.68
36:BA:666:G:H2'	36:BA:667:U:C6	2.28	0.68
36:BA:2037:G:H2'	36:BA:2038:G:C8	2.28	0.68
36:BA:2175:C:H5''	38:BC:220:PRO:HA	1.76	0.68
36:BA:2408:U:O5'	36:BA:2408:U:H6	1.76	0.68
37:BB:91:C:C5'	49:BQ:17:LEU:O	2.39	0.68
40:BE:199:ARG:CG	40:BE:200:GLU:H	2.04	0.68
53:BU:53:ARG:O	53:BU:56:ASP:HB2	1.94	0.68
58:BZ:61:LEU:HD11	58:BZ:67:LEU:CD1	2.23	0.68
1:CA:409:G:H5'	4:CD:25:ARG:HB2	1.76	0.68
4:CD:150:GLU:CD	4:CD:151:LYS:H	2.01	0.68
7:CG:23:VAL:O	7:CG:27:ILE:HG13	1.93	0.68
8:CH:31:PHE:O	8:CH:34:GLU:HG2	1.93	0.68
13:CM:14:ARG:O	13:CM:17:VAL:HB	1.94	0.68
36:DA:245:G:N2	36:DA:254:G:H1'	2.08	0.68
36:DA:586:A:H5'	41:DF:89:VAL:HG21	1.76	0.68
36:DA:650:C:C3'	36:DA:651:G:H5''	2.24	0.68
36:DA:803:U:H2'	36:DA:804:A:H5'	1.74	0.68
36:DA:819:A:C2'	36:DA:820:A:H5'	2.24	0.68
36:DA:1652:A:H2'	36:DA:1653:G:H5'	1.76	0.68
36:DA:1750:G:O2'	36:DA:1751:C:H5'	1.94	0.68
36:DA:2053:G:C2	36:DA:2054:A:H1'	2.29	0.68
38:DC:22:ILE:HD13	38:DC:190:ARG:HG2	1.75	0.68
40:DE:4:ILE:CD1	40:DE:28:ALA:HB1	2.23	0.68
40:DE:30:PRO:HD3	40:DE:180:ASN:HD21	1.57	0.68
48:DP:62:LEU:N	48:DP:62:LEU:CD2	2.49	0.68
50:DR:10:LEU:HD22	50:DR:17:ARG:NE	2.08	0.68
50:DR:18:LEU:HD13	50:DR:19:ALA:N	2.09	0.68
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.18	0.68
13:AM:34:LEU:CD1	13:AM:41:PRO:HG3	2.24	0.68
14:AN:60:SER:O	14:AN:61:TRP:HB3	1.92	0.68
31:B5:55:ARG:HD3	31:B5:56:LYS:N	2.09	0.68
31:B5:56:LYS:HE2	31:B5:59:GLU:OE2	1.94	0.68
36:BA:1021:A:H8	36:BA:1022:G:H4'	1.59	0.68
36:BA:1146:C:O2'	36:BA:1147:C:H5'	1.94	0.68
36:BA:1889:A:O2'	36:BA:2087:G:H5'	1.94	0.68
36:BA:2028:U:H2'	36:BA:2029:G:O4'	1.93	0.68
36:BA:2580:U:H3'	36:BA:2581:G:C2	2.29	0.68
37:BB:42:C:HO2'	37:BB:43:C:H6	1.42	0.68
42:BG:60:LEU:HA	42:BG:63:ILE:CD1	2.24	0.68
46:BN:45:ASN:N	46:BN:45:ASN:ND2	2.40	0.68
49:BQ:134:ARG:CD	58:BZ:122:ARG:NH2	2.53	0.68
50:BR:24:GLN:HE22	50:BR:40:LYS:HD2	1.59	0.68
51:BS:51:ALA:HB2	51:BS:73:LEU:HG	1.76	0.68
51:BS:72:ALA:O	51:BS:75:GLU:HB3	1.94	0.68
52:BT:106:SER:O	52:BT:107:ASP:HB3	1.93	0.68
52:BT:111:ARG:HH11	52:BT:111:ARG:HG2	1.59	0.68
58:BZ:53:ILE:CG2	58:BZ:71:VAL:HB	2.23	0.68
58:BZ:76:LEU:HD21	58:BZ:82:ARG:H	1.59	0.68
1:CA:1060:C:O2'	1:CA:1061:G:H5'	1.94	0.68
2:CB:170:GLU:HA	2:CB:172:ILE:HD12	1.76	0.68
2:CB:237:ALA:O	2:CB:238:LEU:HB3	1.93	0.68
3:CC:95:THR:CG2	3:CC:97:LYS:HG3	2.24	0.68
4:CD:31:CYS:C	4:CD:33:MET:N	2.50	0.68
5:CE:53:LEU:O	5:CE:56:GLN:N	2.27	0.68
7:CG:31:MET:O	7:CG:32:ARG:HG3	1.93	0.68
21:CU:6:ARG:HD3	21:CU:15:ARG:NH1	2.08	0.68
25:CZ:143:ASP:O	25:CZ:147:LEU:HD23	1.94	0.68
25:CZ:356:PRO:CD	25:CZ:359:VAL:HG21	2.23	0.68
25:CZ:376:LYS:O	25:CZ:378:VAL:HG13	1.94	0.68
33:D7:30:VAL:HG11	36:DA:466:A:H4'	1.76	0.68
35:D9:7:VAL:HG13	35:D9:34:GLN:CG	2.23	0.68
35:D9:11:CYS:HG	60:D9:101:ZN:ZN	1.03	0.68
36:DA:337:C:H3'	36:DA:338:G:H5''	1.76	0.68
36:DA:1242:A:N1	48:DP:8:PRO:HG3	2.09	0.68
36:DA:1789:A:OP1	39:DD:222:ARG:HG3	1.94	0.68
36:DA:2306:C:H5'	36:DA:2307:G:O5'	1.94	0.68
36:DA:2580:U:H5'	40:DE:131:ALA:HB2	1.76	0.68
38:DC:127:LEU:HD22	38:DC:130:ILE:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:30:GLU:HB2	39:DD:35:LYS:HE3	1.74	0.68
40:DE:83:ASP:O	40:DE:84:PHE:HB2	1.94	0.68
42:DG:92:VAL:O	42:DG:92:VAL:HG13	1.92	0.68
42:DG:130:ASN:OD1	42:DG:163:ALA:HB3	1.94	0.68
47:DO:96:THR:O	47:DO:97:ARG:HG2	1.94	0.68
48:DP:59:LEU:HA	48:DP:61:ARG:CD	2.23	0.68
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.58	0.68
48:DP:102:ARG:HB2	48:DP:102:ARG:NH2	2.08	0.68
52:DT:106:SER:O	52:DT:107:ASP:HB3	1.94	0.68
54:DV:19:LYS:HA	54:DV:19:LYS:HE2	1.75	0.68
55:DW:40:ASN:O	55:DW:41:LYS:HG2	1.94	0.68
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.29	0.67
1:AA:817:C:H4'	1:AA:818:G:O5'	1.94	0.67
1:AA:1496:C:H4'	36:BA:1920:C:O2'	1.94	0.67
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.76	0.67
9:AI:126:SER:O	9:AI:127:LYS:HB3	1.93	0.67
13:AM:4:ILE:HD11	13:AM:10:PRO:HD3	1.76	0.67
13:AM:91:ARG:HH12	13:AM:103:THR:HG21	1.59	0.67
20:AT:16:HIS:O	20:AT:19:SER:HB3	1.94	0.67
25:AZ:226:GLU:HG3	25:AZ:240:GLY:HA2	1.77	0.67
32:B6:18:ARG:HG2	32:B6:18:ARG:HH11	1.59	0.67
36:BA:605:C:H1'	36:BA:657:U:O2'	1.95	0.67
36:BA:914:C:H2'	36:BA:915:C:H5'	1.75	0.67
36:BA:1038:C:C3'	36:BA:1039:G:H5''	2.23	0.67
36:BA:2011:U:H2'	36:BA:2012:G:O4'	1.93	0.67
36:BA:2101:G:H2'	36:BA:2102:U:O4'	1.93	0.67
36:BA:2136:C:N4	36:BA:2155:G:H1	1.92	0.67
36:BA:2580:U:H5'	40:BE:131:ALA:HB2	1.76	0.67
39:BD:223:GLY:HA2	39:BD:226:MET:SD	2.34	0.67
40:BE:165:VAL:HG12	40:BE:166:THR:N	2.10	0.67
42:BG:162:THR:O	42:BG:164:GLU:N	2.27	0.67
43:BH:76:VAL:O	43:BH:79:VAL:HG22	1.93	0.67
43:BH:85:LYS:NZ	43:BH:132:ARG:HA	2.09	0.67
46:BN:5:VAL:HG12	46:BN:7:LYS:HG3	1.77	0.67
56:BX:76:ARG:HD3	56:BX:76:ARG:N	2.09	0.67
57:BY:46:LYS:C	57:BY:47:LYS:HG3	2.19	0.67
58:BZ:153:SER:HB3	58:BZ:167:PRO:HB3	1.74	0.67
1:CA:775:G:O2'	1:CA:776:G:H5'	1.94	0.67
1:CA:927:G:H8	1:CA:927:G:H5'	1.59	0.67
2:CB:80:ILE:H	2:CB:80:ILE:CD1	2.07	0.67
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:6:G:H1	22:CV:67:C:N4	1.92	0.67
36:DA:212:G:O2'	36:DA:213:A:H5'	1.94	0.67
36:DA:821:A:H5''	36:DA:822:U:H6	1.59	0.67
36:DA:1292:U:H2'	36:DA:1293:C:C6	2.28	0.67
36:DA:1466:G:H3'	36:DA:1547:C:H41	1.60	0.67
36:DA:2249:U:H4'	36:DA:2275:C:C5	2.29	0.67
36:DA:2291:U:H3	36:DA:2341:G:H1	1.41	0.67
36:DA:2491:U:H4'	36:DA:2570:G:OP1	1.94	0.67
38:DC:151:GLU:CA	38:DC:154:ARG:HH11	2.05	0.67
42:DG:66:GLN:CD	42:DG:94:LEU:HD23	2.18	0.67
49:DQ:141:GLN:HE22	58:DZ:72:ARG:HD3	1.59	0.67
53:DU:21:ALA:HB1	53:DU:24:TYR:CD1	2.29	0.67
56:DX:65:ARG:CG	56:DX:66:LEU:H	2.03	0.67
1:AA:407:G:H2'	1:AA:408:A:C8	2.29	0.67
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.29	0.67
1:AA:1508:G:H1	1:AA:1527:C:H42	1.42	0.67
2:AB:204:ASN:HD22	2:AB:204:ASN:C	2.03	0.67
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.58	0.67
7:AG:144:MET:O	7:AG:148:ASN:ND2	2.27	0.67
15:AO:12:ILE:HG22	15:AO:13:GLN:N	2.09	0.67
26:B0:30:VAL:HA	26:B0:66:VAL:HA	1.76	0.67
27:B1:4:VAL:HG22	27:B1:5:CYS:N	2.09	0.67
27:B1:94:LEU:O	27:B1:95:LEU:C	2.37	0.67
32:B6:8:LYS:HE3	32:B6:25:LYS:HD3	1.75	0.67
35:B9:24:TYR:O	35:B9:25:VAL:HG23	1.94	0.67
36:BA:38:A:H5'	41:BF:50:SER:OG	1.94	0.67
36:BA:594:U:H2'	36:BA:595:C:H6	1.59	0.67
36:BA:2472:G:H2'	36:BA:2475:C:N4	2.09	0.67
36:BA:2707:G:O2'	36:BA:2708:G:H5'	1.95	0.67
37:BB:7:G:C3'	37:BB:8:U:H5''	2.21	0.67
41:BF:139:PHE:HB3	41:BF:166:ALA:HB1	1.75	0.67
42:BG:97:ASP:H	42:BG:100:TRP:CD1	2.12	0.67
52:BT:85:LYS:HB3	52:BT:85:LYS:NZ	2.07	0.67
53:BU:88:ILE:HG13	53:BU:88:ILE:O	1.93	0.67
53:BU:110:VAL:O	53:BU:113:ALA:HB3	1.94	0.67
57:BY:19:LYS:HB2	57:BY:20:TYR:CE1	2.29	0.67
58:BZ:60:GLU:HA	58:BZ:66:SER:HA	1.75	0.67
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.29	0.67
1:CA:225:C:H2'	1:CA:226:G:H8	1.59	0.67
1:CA:571:U:H2'	1:CA:572:A:H5''	1.74	0.67
1:CA:751:U:H4'	15:CO:24:SER:CB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	2.10	0.67
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.76	0.67
3:CC:187:ALA:O	3:CC:188:LEU:HD22	1.93	0.67
10:CJ:63:PHE:HA	14:CN:59:ALA:H	1.59	0.67
14:CN:12:ARG:HB3	14:CN:14:PRO:HG2	1.76	0.67
25:CZ:79:HIS:HD2	25:CZ:80:VAL:N	1.92	0.67
26:D0:50:ASN:HD22	26:D0:63:VAL:HG21	1.59	0.67
32:D6:15:GLU:HB2	32:D6:20:ASN:HB3	1.76	0.67
36:DA:1824:G:H5''	39:DD:52:ARG:NH1	2.09	0.67
36:DA:1858:G:H1'	36:DA:1884:A:N6	2.09	0.67
36:DA:2866:U:C6	36:DA:2868:A:H1'	2.29	0.67
38:DC:124:GLY:HA2	38:DC:128:GLY:HA3	1.75	0.67
45:DK:7:UNK:HA	45:DK:58:UNK:HA	1.76	0.67
45:DK:80:UNK:C	45:DK:82:UNK:H	2.07	0.67
45:DK:90:UNK:HA	58:DZ:112:ARG:NH2	2.10	0.67
1:AA:337:C:H2'	1:AA:338:A:C8	2.28	0.67
1:AA:520:A:N1	1:AA:536:C:H1'	2.09	0.67
1:AA:684:A:N3	11:AK:39:PRO:HG2	2.09	0.67
1:AA:1308:U:O2'	1:AA:1309:G:H5'	1.93	0.67
7:AG:20:ASP:HB3	7:AG:23:VAL:HG23	1.76	0.67
20:AT:17:ARG:C	20:AT:19:SER:H	2.02	0.67
25:AZ:356:PRO:CD	25:AZ:359:VAL:HG21	2.24	0.67
27:B1:45:ASN:HD22	27:B1:45:ASN:C	2.00	0.67
29:B3:6:VAL:HB	29:B3:54:VAL:CG1	2.22	0.67
34:B8:24:ALA:O	34:B8:46:ARG:HA	1.93	0.67
34:B8:43:GLN:O	34:B8:44:LYS:HD2	1.94	0.67
36:BA:139:G:C6	36:BA:140:G:H2'	2.29	0.67
36:BA:142(A):C:O2'	36:BA:143:G:H5'	1.94	0.67
36:BA:819:A:C2'	36:BA:820:A:H5'	2.25	0.67
36:BA:1419:A:O2'	36:BA:1420:U:H5''	1.94	0.67
36:BA:1652:A:H2'	36:BA:1653:G:H5'	1.76	0.67
36:BA:1747(A):G:H2'	36:BA:1748:G:O4'	1.95	0.67
36:BA:2833:G:C3'	36:BA:2834:G:H5''	2.24	0.67
39:BD:131:LEU:HD12	39:BD:131:LEU:N	2.09	0.67
45:BK:80:UNK:C	45:BK:82:UNK:H	2.07	0.67
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.94	0.67
48:BP:86:LYS:HB3	48:BP:86:LYS:HZ3	1.60	0.67
51:BS:106:ARG:NH1	51:BS:106:ARG:HB3	2.09	0.67
53:BU:10:ARG:HA	53:BU:13:LYS:HG2	1.76	0.67
1:CA:8:A:OP2	1:CA:8:A:H2'	1.93	0.67
1:CA:473:G:H2'	1:CA:474:G:H8	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1106:G:O2'	1:CA:1107:C:H5'	1.95	0.67
1:CA:1471:G:O2'	1:CA:1472:U:H5'	1.94	0.67
5:CE:64:ARG:N	5:CE:66:MET:HE2	2.10	0.67
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.27	0.67
36:DA:2282:G:H21	36:DA:2390:U:H3	1.41	0.67
36:DA:2286:A:H4'	36:DA:2287:A:O4'	1.94	0.67
36:DA:2352:A:H2'	36:DA:2353:G:H5'	1.76	0.67
36:DA:2716:U:O2'	36:DA:2717:G:H5'	1.93	0.67
41:DF:29:ASN:HD22	41:DF:32:LEU:CB	1.99	0.67
41:DF:155:LEU:HD11	41:DF:176:LEU:HD22	1.75	0.67
46:DN:21:LYS:HE3	46:DN:25:ARG:CB	2.23	0.67
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.09	0.67
1:AA:996:A:H2'	1:AA:997:U:C6	2.29	0.67
2:AB:170:GLU:HA	2:AB:172:ILE:CD1	2.25	0.67
4:AD:30:LYS:O	4:AD:32:ALA:N	2.26	0.67
5:AE:87:SER:OG	5:AE:125:SER:HB3	1.94	0.67
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.29	0.67
9:AI:104:ARG:HG2	9:AI:105:ASP:N	2.07	0.67
11:AK:125:PHE:HD1	11:AK:125:PHE:N	1.91	0.67
12:AL:89:ARG:HD2	12:AL:91:LYS:HE2	1.75	0.67
13:AM:2:ALA:O	13:AM:9:ILE:HG23	1.93	0.67
13:AM:40:ASN:OD1	13:AM:41:PRO:HD2	1.93	0.67
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.76	0.67
19:AS:40:ILE:HB	19:AS:67:VAL:O	1.93	0.67
28:B2:2:LYS:HD2	28:B2:5:GLU:CD	2.19	0.67
28:B2:31:GLU:C	28:B2:33:MET:N	2.45	0.67
34:B8:10:ALA:O	34:B8:14:VAL:HG12	1.94	0.67
36:BA:31:C:C2'	36:BA:32:C:H5''	2.24	0.67
36:BA:392:C:C2'	36:BA:393:C:H5'	2.25	0.67
36:BA:675:A:OP1	41:BF:63:LYS:HE2	1.95	0.67
36:BA:1579:A:H2'	36:BA:1580:A:C1'	2.24	0.67
36:BA:2092:U:H4'	36:BA:2093:G:H5''	1.75	0.67
36:BA:2233:U:H2'	36:BA:2234:G:C8	2.28	0.67
39:BD:144:ALA:HB3	39:BD:192:THR:CG2	2.24	0.67
41:BF:24:LEU:O	41:BF:115:ALA:HB1	1.93	0.67
52:BT:23:ARG:O	52:BT:25:GLY:N	2.27	0.67
1:CA:663:A:O2'	1:CA:664:G:H5'	1.93	0.67
2:CB:213:LEU:O	2:CB:216:SER:HB3	1.93	0.67
6:CF:98:LEU:HD12	6:CF:98:LEU:H	1.57	0.67
10:CJ:51:ARG:HE	10:CJ:61:GLU:HB2	1.59	0.67
14:CN:48:ALA:HA	14:CN:53:LEU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:56:VAL:CG2	17:CQ:81:ARG:HG3	2.25	0.67
20:CT:10:LEU:HD12	20:CT:11:SER:N	2.09	0.67
22:CW:34:G:H22	23:CX:18:G:H22	1.41	0.67
25:CZ:234:ARG:HD2	25:CZ:289:LEU:CD2	2.23	0.67
35:D9:27:CYS:SG	35:D9:28:GLU:N	2.67	0.67
36:DA:1030:G:OP2	49:DQ:128:LYS:HE2	1.94	0.67
36:DA:1416:G:HO2'	36:DA:1417:C:H5	1.43	0.67
36:DA:2472:G:H2'	36:DA:2475:C:H42	1.59	0.67
38:DC:28:LEU:O	38:DC:28:LEU:HD23	1.93	0.67
40:DE:9:VAL:CG1	40:DE:25:VAL:HB	2.23	0.67
48:DP:7:ARG:HB3	48:DP:8:PRO:HD3	1.76	0.67
48:DP:126:VAL:HG13	48:DP:145:PRO:HB2	1.74	0.67
52:DT:82:LEU:H	52:DT:82:LEU:CD1	2.04	0.67
53:DU:34:LYS:HE2	53:DU:34:LYS:HA	1.77	0.67
1:AA:1179:A:H4'	9:AI:103:THR:HA	1.77	0.67
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.26	0.67
6:AF:98:LEU:HD12	6:AF:98:LEU:H	1.59	0.67
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.59	0.67
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.60	0.67
25:AZ:20:VAL:HA	25:AZ:24:LYS:HZ1	1.60	0.67
25:AZ:277:LEU:HD12	25:AZ:280:GLY:N	2.05	0.67
30:B4:42:PHE:O	30:B4:42:PHE:CG	2.47	0.67
31:B5:25:LEU:O	31:B5:27:PRO:HD3	1.94	0.67
36:BA:2126:A:H4'	36:BA:2127:G:O5'	1.94	0.67
36:BA:2201:C:H2'	36:BA:2202:C:C6	2.29	0.67
36:BA:2652:C:H2'	36:BA:2653:U:C6	2.30	0.67
39:BD:145:VAL:HB	39:BD:155:LEU:HB2	1.77	0.67
42:BG:85:GLY:C	42:BG:87:PRO:HD3	2.19	0.67
49:BQ:36:ALA:C	49:BQ:37:LEU:HD23	2.18	0.67
58:BZ:12:GLY:HA3	58:BZ:36:LYS:HZ2	1.59	0.67
58:BZ:70:LEU:CD2	58:BZ:91:LEU:HD21	2.23	0.67
1:CA:1226:C:C4	13:CM:104:ARG:HB2	2.29	0.67
1:CA:1442(B):A:H5''	52:DT:122:ASP:OD1	1.94	0.67
1:CA:1499:A:O2'	1:CA:1500:A:H5'	1.95	0.67
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.77	0.67
3:CC:56:ASP:OD2	3:CC:69:HIS:NE2	2.28	0.67
5:CE:33:VAL:HG21	5:CE:109:ILE:CG1	2.19	0.67
8:CH:119:LEU:N	8:CH:119:LEU:HD23	2.10	0.67
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.76	0.67
22:CW:39:U:H4'	22:CW:39:U:OP1	1.94	0.67
25:CZ:194:GLU:HB3	25:CZ:198:LYS:NZ	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:223:MET:HE3	25:CZ:223:MET:O	1.94	0.67
27:D1:69:LYS:O	27:D1:73:LEU:HD12	1.95	0.67
36:DA:21:A:H2'	36:DA:22:C:C6	2.30	0.67
36:DA:371:A:H61	36:DA:401:A:H3'	1.60	0.67
36:DA:1018:C:H2'	36:DA:1019:U:H6	1.57	0.67
36:DA:2688:U:H3'	36:DA:2688:U:O2	1.94	0.67
36:DA:2690:C:H4'	36:DA:2872:G:N2	2.10	0.67
36:DA:2760:C:C2'	36:DA:2761:G:H5''	2.25	0.67
41:DF:178:PRO:HG2	41:DF:179:GLU:OE1	1.93	0.67
58:DZ:153:SER:H	58:DZ:167:PRO:CB	2.07	0.67
1:AA:185:A:N3	20:AT:81:LYS:NZ	2.43	0.67
1:AA:321:A:O2'	1:AA:322:C:H5'	1.95	0.67
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.10	0.67
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.24	0.67
5:AE:64:ARG:N	5:AE:66:MET:HE2	2.10	0.67
7:AG:133:GLY:O	7:AG:136:LYS:HB2	1.93	0.67
11:AK:124:LYS:O	11:AK:127:LYS:HG2	1.94	0.67
36:BA:139(A):G:N2	56:BX:44:GLU:OE1	2.27	0.67
36:BA:471:A:H2'	36:BA:472:A:C5'	2.24	0.67
36:BA:729:G:O2'	36:BA:763:G:H4'	1.95	0.67
36:BA:782:A:C2	39:BD:226:MET:HG2	2.30	0.67
36:BA:1038:C:H2'	36:BA:1039:G:H5''	1.77	0.67
36:BA:1058:G:H8	36:BA:1058:G:O5'	1.77	0.67
37:BB:110:G:O2'	37:BB:111:G:H5'	1.94	0.67
41:BF:184:TYR:HE1	48:BP:7:ARG:NH2	1.92	0.67
47:BO:86:ILE:HG22	47:BO:94:ARG:HB2	1.77	0.67
47:BO:107:ARG:HH11	52:BT:36:GLU:HG3	1.58	0.67
48:BP:75:ILE:HD12	48:BP:75:ILE:H	1.60	0.67
51:BS:12:PHE:O	51:BS:14:VAL:HG23	1.95	0.67
52:BT:4:GLY:O	52:BT:7:ILE:HB	1.94	0.67
1:CA:624:C:H2'	1:CA:625:G:H8	1.58	0.67
1:CA:778:G:H1	1:CA:804:U:H3	1.43	0.67
1:CA:841:U:O2'	1:CA:848:C:H5'	1.95	0.67
1:CA:863:U:C2'	1:CA:864:A:H5''	2.23	0.67
20:CT:44:ALA:HB1	20:CT:88:VAL:HG13	1.76	0.67
25:CZ:138:VAL:CG2	25:CZ:173:GLY:H	1.87	0.67
25:CZ:186:PRO:O	25:CZ:187:LYS:HG3	1.95	0.67
32:D6:22:ALA:HB2	32:D6:39:TYR:CE2	2.30	0.67
34:D8:8:LYS:HG2	34:D8:11:LYS:CD	2.25	0.67
36:DA:1902:C:O2'	39:DD:244:ARG:HB2	1.93	0.67
36:DA:2101:G:H2'	36:DA:2102:U:O4'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2136:C:N4	36:DA:2155:G:H1	1.92	0.67
36:DA:2712:U:O2'	36:DA:2713:A:H5'	1.93	0.67
36:DA:2875:C:H4'	52:DT:5:ALA:HB3	1.75	0.67
37:DB:68:C:H2'	37:DB:69:G:C8	2.28	0.67
41:DF:24:LEU:O	41:DF:115:ALA:HB1	1.95	0.67
41:DF:117:ARG:HG2	41:DF:192:LEU:HD13	1.77	0.67
51:DS:99:LYS:O	51:DS:100:ALA:C	2.38	0.67
53:DU:107:ALA:O	53:DU:110:VAL:HB	1.94	0.67
57:DY:97:ARG:O	57:DY:97:ARG:HG3	1.94	0.67
1:AA:178:C:H2'	1:AA:179:A:C8	2.29	0.67
2:AB:170:GLU:HA	2:AB:172:ILE:HD12	1.77	0.67
4:AD:188:LEU:HD23	4:AD:189:PRO:O	1.95	0.67
5:AE:150:ARG:HH11	5:AE:150:ARG:HB2	1.59	0.67
6:AF:15:ASP:OD2	6:AF:17:SER:HB2	1.95	0.67
7:AG:80:VAL:HG12	7:AG:81:GLY:N	2.10	0.67
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.59	0.67
9:AI:6:GLY:HA3	9:AI:84:ALA:HB2	1.77	0.67
22:AW:39:U:H4'	22:AW:39:U:OP1	1.94	0.67
24:AY:37:YG:H1'	24:AY:37:YG:H31	1.77	0.67
25:AZ:25:THR:CB	62:AZ:501:GDP:O2B	2.42	0.67
25:AZ:193:ASN:HB3	25:AZ:196:VAL:CG2	2.25	0.67
25:AZ:215:ARG:HB3	25:AZ:282:ALA:CB	2.25	0.67
36:BA:68:G:H2'	36:BA:69:C:C6	2.29	0.67
36:BA:329:G:H1	57:BY:19:LYS:HE3	1.59	0.67
36:BA:654(T):C:H2'	36:BA:654(U):A:O4'	1.95	0.67
36:BA:672:C:H2'	36:BA:673:C:H5''	1.75	0.67
36:BA:1988:C:H2'	36:BA:1989:G:O4'	1.94	0.67
36:BA:2689:U:H4'	36:BA:2690:C:H6	1.60	0.67
36:BA:2760:C:C2'	36:BA:2761:G:H5''	2.23	0.67
38:BC:22:ILE:HD13	38:BC:190:ARG:HG2	1.75	0.67
38:BC:151:GLU:CA	38:BC:154:ARG:HH11	2.08	0.67
40:BE:142:GLY:C	40:BE:143:ASN:HD22	2.02	0.67
42:BG:45:GLU:C	42:BG:47:LYS:H	2.02	0.67
42:BG:146:TYR:O	42:BG:148:MET:N	2.26	0.67
1:CA:652:U:O2'	1:CA:653:A:H5''	1.95	0.67
1:CA:831:U:H2'	1:CA:832:C:H6	1.58	0.67
1:CA:932:C:H5''	7:CG:3:ARG:CD	2.24	0.67
1:CA:1101:A:H4'	1:CA:1102:A:O5'	1.95	0.67
2:CB:16:HIS:HB3	2:CB:210:SER:CB	2.25	0.67
2:CB:82:ARG:O	2:CB:86:GLU:HG3	1.95	0.67
5:CE:26:PHE:O	5:CE:27:ARG:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:71:LEU:O	5:CE:72:GLN:HG3	1.95	0.67
9:CI:22:GLY:O	9:CI:59:PHE:N	2.27	0.67
19:CS:44:MET:HA	19:CS:47:HIS:CD2	2.19	0.67
25:CZ:38:GLU:CD	25:CZ:200:TRP:HH2	2.01	0.67
33:D7:18:PHE:CZ	36:DA:117:G:H4'	2.27	0.67
36:DA:266:G:C2'	36:DA:267:C:H5''	2.22	0.67
36:DA:612:C:C2'	36:DA:613:G:H5''	2.24	0.67
36:DA:1038:C:C3'	36:DA:1039:G:H5''	2.23	0.67
40:DE:165:VAL:HG12	40:DE:166:THR:H	1.59	0.67
41:DF:139:PHE:HB3	41:DF:166:ALA:HB1	1.75	0.67
56:DX:26:TYR:CE2	56:DX:89:ILE:HB	2.30	0.67
1:AA:530:G:O2'	24:AY:35:G:H4'	1.94	0.67
1:AA:1368:G:O2'	1:AA:1369:C:H5'	1.94	0.67
3:AC:94:LEU:HD12	3:AC:94:LEU:O	1.95	0.67
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.75	0.67
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	1.95	0.67
12:AL:41:ARG:HG3	12:AL:41:ARG:NH1	2.10	0.67
14:AN:22:THR:CB	14:AN:33:VAL:HG21	2.23	0.67
16:AP:15:PRO:HB2	16:AP:41:PRO:HG3	1.75	0.67
17:AQ:8:GLY:HA3	17:AQ:22:LEU:O	1.93	0.67
26:B0:55:ARG:O	26:B0:57:PHE:N	2.27	0.67
36:BA:1285:G:H4'	50:BR:105:ARG:NH1	2.10	0.67
36:BA:1536:C:H2'	36:BA:1537:G:H4'	1.77	0.67
36:BA:1690:A:C2'	36:BA:1691:C:H5'	2.25	0.67
37:BB:91:C:OP1	49:BQ:17:LEU:N	2.27	0.67
40:BE:23:VAL:HG12	40:BE:173:VAL:HG21	1.76	0.67
46:BN:54:VAL:HB	46:BN:122:VAL:HG13	1.77	0.67
48:BP:36:LYS:CB	48:BP:41:ARG:HB3	2.25	0.67
48:BP:63:PRO:O	48:BP:64:LYS:C	2.38	0.67
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.95	0.67
53:BU:6:THR:O	53:BU:9:VAL:HG22	1.95	0.67
53:BU:42:ALA:HA	53:BU:45:TYR:HB2	1.74	0.67
57:BY:13:VAL:HG22	57:BY:14:LEU:N	2.09	0.67
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	1.94	0.67
58:BZ:69:THR:HG23	58:BZ:90:VAL:HA	1.77	0.67
1:CA:269:C:H2'	1:CA:270:A:C8	2.29	0.67
1:CA:1368:G:O2'	1:CA:1369:C:H5'	1.94	0.67
8:CH:36:LEU:HD12	8:CH:59:LEU:HD13	1.77	0.67
25:CZ:248:LYS:HD3	25:CZ:279:GLU:HG3	1.77	0.67
31:D5:4:HIS:HB2	31:D5:5:PRO:CD	2.18	0.67
34:D8:22:VAL:HG21	34:D8:53:PRO:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:329:G:H1	57:DY:19:LYS:HE3	1.60	0.67
36:DA:795:C:H2'	36:DA:796:C:H6	1.60	0.67
36:DA:864:G:H1'	36:DA:914:C:N4	2.09	0.67
36:DA:914:C:H2'	36:DA:915:C:H5'	1.76	0.67
36:DA:1390:U:H3	36:DA:1395:A:H62	1.43	0.67
36:DA:1564:C:O2'	36:DA:1565:C:H5'	1.95	0.67
36:DA:2304:G:N2	36:DA:2312:U:H3	1.92	0.67
37:DB:98:G:H2'	37:DB:99:G:H8	1.60	0.67
38:DC:43:VAL:HG21	38:DC:175:VAL:HG21	1.77	0.67
38:DC:103:ILE:O	38:DC:103:ILE:HG22	1.93	0.67
40:DE:167:VAL:HB	40:DE:189:PRO:HD3	1.77	0.67
54:DV:19:LYS:HG2	54:DV:94:LEU:CB	2.25	0.67
1:AA:346:G:H2'	1:AA:346:G:N3	2.09	0.67
1:AA:1191:A:H5''	3:AC:4:LYS:HZ2	1.59	0.67
4:AD:79:PHE:HA	4:AD:93:PHE:CE2	2.30	0.67
8:AH:9:MET:SD	8:AH:32:LYS:HG2	2.35	0.67
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.77	0.67
25:AZ:9:LYS:HD2	25:AZ:74:LYS:O	1.95	0.67
36:BA:193:U:H3	36:BA:202:U:H3	1.43	0.67
36:BA:218:A:H2'	36:BA:219:G:O4'	1.95	0.67
36:BA:944:G:H5'	36:BA:945:A:O5'	1.95	0.67
36:BA:996:A:H4'	53:BU:92:ARG:HG2	1.75	0.67
36:BA:1605:C:H2'	36:BA:1606:G:H5'	1.75	0.67
36:BA:2688:U:H3'	36:BA:2688:U:O2	1.95	0.67
39:BD:148:GLU:CB	39:BD:151:LYS:HD2	2.25	0.67
40:BE:201:THR:C	40:BE:202:LYS:HD2	2.20	0.67
42:BG:9:ARG:NH1	42:BG:9:ARG:HB3	2.10	0.67
48:BP:23:PRO:HD2	48:BP:33:ARG:NH2	2.09	0.67
50:BR:62:ALA:O	50:BR:66:VAL:HG23	1.94	0.67
54:BV:95:LEU:HD23	54:BV:95:LEU:C	2.19	0.67
56:BX:14:SER:OG	56:BX:17:ALA:HB2	1.95	0.67
58:BZ:102:LEU:HD21	58:BZ:124:ILE:CD1	2.25	0.67
1:CA:530:G:O2'	24:CY:35:G:H4'	1.95	0.67
1:CA:855:G:H2'	1:CA:856:C:H6	1.59	0.67
3:CC:96:GLY:O	3:CC:97:LYS:HG2	1.94	0.67
17:CQ:29:HIS:CE1	17:CQ:31:LEU:H	2.12	0.67
35:D9:13:LYS:HD2	35:D9:28:GLU:HB2	1.77	0.67
36:DA:696:G:H2'	36:DA:696:G:N3	2.10	0.67
36:DA:836:G:H2'	36:DA:837:C:C6	2.30	0.67
36:DA:1512:U:H2'	36:DA:1512:U:O2	1.92	0.67
36:DA:2111:C:H42	36:DA:2145:C:H2'	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:30:C:H1'	37:DB:57:A:H61	1.58	0.67
38:DC:151:GLU:HA	38:DC:154:ARG:HD2	1.77	0.67
42:DG:96:ARG:O	42:DG:98:ARG:N	2.28	0.67
43:DH:156:ALA:C	43:DH:158:HIS:N	2.46	0.67
50:DR:24:GLN:HE22	50:DR:40:LYS:HD2	1.60	0.67
53:DU:10:ARG:HA	53:DU:13:LYS:HG2	1.75	0.67
57:DY:10:GLY:C	57:DY:27:VAL:HG13	2.19	0.67
13:AM:81:LEU:N	13:AM:81:LEU:HD23	2.10	0.67
18:AR:66:LEU:O	18:AR:70:ILE:HG13	1.95	0.67
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.08	0.67
26:B0:30:VAL:HA	26:B0:65:GLY:C	2.20	0.67
27:B1:13:ILE:HD13	27:B1:13:ILE:N	2.09	0.67
36:BA:479:A:HO2'	36:BA:481:G:H8	1.42	0.67
36:BA:1422:G:H4'	36:BA:1493:C:OP1	1.95	0.67
36:BA:1528(A):A:H2'	36:BA:1529:G:O4'	1.94	0.67
36:BA:1568:G:H4'	39:BD:59:LYS:HG2	1.77	0.67
38:BC:79:LYS:HG2	38:BC:118:ASP:OD2	1.95	0.67
42:BG:111:LEU:HB2	42:BG:112:PRO:CD	2.25	0.67
48:BP:47:ASP:HB2	48:BP:51:PHE:HB2	1.77	0.67
1:CA:824:C:H2'	1:CA:825:G:C8	2.29	0.67
1:CA:1158:C:O2'	1:CA:1159:U:H4'	1.95	0.67
4:CD:145:GLU:HA	4:CD:184:LYS:HA	1.77	0.67
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.76	0.67
10:CJ:67:THR:HG23	10:CJ:67:THR:O	1.94	0.67
11:CK:124:LYS:O	11:CK:127:LYS:HG2	1.94	0.67
13:CM:91:ARG:HH12	13:CM:103:THR:HG21	1.59	0.67
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.09	0.67
17:CQ:85:VAL:O	17:CQ:89:LEU:HG	1.95	0.67
36:DA:2028:U:H2'	36:DA:2029:G:O4'	1.95	0.67
38:DC:98:GLU:C	38:DC:100:ILE:N	2.52	0.67
39:DD:136:ILE:HD12	39:DD:136:ILE:N	2.08	0.67
39:DD:213:ARG:HD2	39:DD:217:ARG:O	1.95	0.67
49:DQ:12:GLN:NE2	49:DQ:73:PRO:HD2	2.10	0.67
49:DQ:34:LEU:HD12	49:DQ:130:LYS:O	1.95	0.67
52:DT:50:ILE:HG23	52:DT:99:LEU:HD12	1.76	0.67
52:DT:56:GLY:O	52:DT:59:THR:HG23	1.94	0.67
57:DY:46:LYS:HB2	57:DY:62:GLU:CD	2.20	0.67
57:DY:46:LYS:C	57:DY:47:LYS:HG3	2.20	0.67
1:AA:274:A:O2'	1:AA:275:G:O4'	2.14	0.66
1:AA:675:A:H2'	1:AA:676:A:C8	2.31	0.66
1:AA:724:G:O2'	1:AA:725:G:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1411:C:O2'	1:AA:1412:C:H5'	1.95	0.66
1:AA:1440:C:O2	1:AA:1462:G:N1	2.28	0.66
3:AC:56:ASP:OD2	3:AC:69:HIS:NE2	2.28	0.66
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.77	0.66
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.07	0.66
24:AY:8:U:H5'	24:AY:49:G:OP2	1.95	0.66
27:B1:25:LYS:HB3	36:BA:388:G:H5'	1.77	0.66
27:B1:77:ALA:O	27:B1:82:LEU:HD22	1.95	0.66
36:BA:21:A:H2'	36:BA:22:C:C6	2.29	0.66
36:BA:392:C:H2'	36:BA:393:C:H5'	1.76	0.66
36:BA:1664:A:H1'	36:BA:2726:U:C5	2.30	0.66
38:BC:20:TYR:HB3	38:BC:24:GLU:CB	2.25	0.66
38:BC:98:GLU:C	38:BC:100:ILE:N	2.53	0.66
40:BE:31:CYS:CB	40:BE:49:LEU:HD12	2.25	0.66
49:BQ:3:MET:HB2	49:BQ:4:PRO:HD2	1.76	0.66
1:CA:1179:A:H4'	9:CI:103:THR:HA	1.76	0.66
1:CA:1308:U:O2'	1:CA:1309:G:H5'	1.95	0.66
4:CD:109:GLY:O	4:CD:111:ALA:N	2.26	0.66
5:CE:46:GLY:C	5:CE:47:LYS:HD3	2.19	0.66
5:CE:102:ALA:CB	5:CE:120:THR:HG21	2.24	0.66
6:CF:17:SER:O	6:CF:21:LEU:HD23	1.95	0.66
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.24	0.66
13:CM:12:ASN:ND2	13:CM:46:LYS:HB2	2.09	0.66
20:CT:45:GLN:HB3	20:CT:91:LEU:HD13	1.75	0.66
24:CY:8:U:H5'	24:CY:49:G:OP2	1.96	0.66
24:CY:37:YG:H31	24:CY:37:YG:H1'	1.77	0.66
26:D0:19:LYS:O	26:D0:21:LEU:HG	1.94	0.66
27:D1:13:ILE:CD1	36:DA:396:G:H5'	2.11	0.66
28:D2:3:LEU:CD1	36:DA:98:G:H5''	2.23	0.66
28:D2:27:GLU:O	28:D2:28:LYS:C	2.37	0.66
35:D9:19:ARG:C	35:D9:21:GLY:H	2.04	0.66
36:DA:191:A:O2'	36:DA:192:C:H5'	1.95	0.66
36:DA:471:A:H2'	36:DA:472:A:H5''	1.77	0.66
36:DA:525:U:O5'	36:DA:556:G:H5'	1.95	0.66
36:DA:660:G:H5'	41:DF:99:TYR:CD2	2.29	0.66
36:DA:1351:C:H2'	36:DA:1352:U:C6	2.30	0.66
36:DA:1988:C:O2'	36:DA:1989:G:H5'	1.95	0.66
36:DA:2189:U:H2'	36:DA:2190:G:C4'	2.24	0.66
39:DD:34:VAL:HG23	39:DD:35:LYS:N	2.10	0.66
40:DE:4:ILE:HD13	40:DE:28:ALA:HB1	1.75	0.66
41:DF:82:ILE:O	41:DF:83:PHE:HB3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:18:LYS:HB3	49:DQ:98:LYS:NZ	2.10	0.66
49:DQ:134:ARG:HD2	58:DZ:122:ARG:HH21	1.58	0.66
50:DR:29:LEU:HD21	50:DR:52:ILE:HD11	1.76	0.66
52:DT:45:PHE:CE1	52:DT:74:ARG:HG3	2.30	0.66
1:AA:401:C:H2'	1:AA:402:G:C8	2.30	0.66
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.11	0.66
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.09	0.66
1:AA:1498:U:C4	23:AX:20:U:H4'	2.31	0.66
4:AD:20:TYR:HA	4:AD:26:CYS:HB3	1.77	0.66
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.25	0.66
18:AR:44:LEU:HD23	18:AR:48:GLY:O	1.94	0.66
22:AV:50:U:O2'	22:AV:51:U:H5'	1.94	0.66
22:AW:10:G:O2'	22:AW:11:C:H5'	1.95	0.66
25:AZ:313:HIS:HB3	25:AZ:403:ILE:HG21	1.75	0.66
25:AZ:356:PRO:C	25:AZ:359:VAL:CG2	2.67	0.66
32:B6:53:LYS:HG2	32:B6:54:ILE:N	2.10	0.66
36:BA:871:U:H4'	49:BQ:69:PHE:CZ	2.30	0.66
36:BA:1120:G:H2'	36:BA:1121:C:C6	2.30	0.66
36:BA:1242:A:N1	48:BP:8:PRO:HG3	2.10	0.66
36:BA:1390:U:O2'	36:BA:1391:U:H5'	1.95	0.66
36:BA:1754:C:H5''	52:BT:113:LYS:NZ	2.09	0.66
36:BA:2810:A:O2'	40:BE:61:ARG:HB2	1.96	0.66
39:BD:23:GLU:O	39:BD:82:ILE:HD12	1.95	0.66
39:BD:166:GLN:HE21	39:BD:166:GLN:CA	1.98	0.66
39:BD:210:GLY:O	39:BD:211:ARG:HB3	1.96	0.66
40:BE:57:LYS:HE3	40:BE:57:LYS:CA	2.11	0.66
41:BF:57:VAL:HG12	41:BF:58:ALA:H	1.58	0.66
42:BG:19:LEU:HD23	42:BG:175:LEU:HD12	1.77	0.66
42:BG:117:PHE:CG	42:BG:118:ARG:N	2.62	0.66
42:BG:143:GLU:O	42:BG:144:ILE:C	2.39	0.66
42:BG:162:THR:O	42:BG:164:GLU:HG3	1.95	0.66
42:BG:180:PHE:HB2	42:BG:182:LYS:HZ2	1.59	0.66
46:BN:21:LYS:HD3	46:BN:22:THR:N	2.09	0.66
50:BR:100:LEU:HD22	50:BR:100:LEU:H	1.60	0.66
53:BU:66:ASN:CG	53:BU:76:TYR:HB2	2.20	0.66
1:CA:1200:C:O2'	1:CA:1201:A:P	2.53	0.66
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.29	0.66
2:CB:229:VAL:CG1	2:CB:230:VAL:H	2.09	0.66
8:CH:94:TYR:N	8:CH:94:TYR:CD1	2.64	0.66
10:CJ:91:PRO:CB	10:CJ:94:VAL:HB	2.24	0.66
11:CK:111:ASP:CB	18:CR:84:LYS:HD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:10:LEU:HD12	20:CT:11:SER:H	1.61	0.66
36:DA:963:U:H2'	36:DA:964:C:C6	2.30	0.66
36:DA:1422:G:H4'	36:DA:1493:C:OP1	1.95	0.66
36:DA:1566:A:OP1	39:DD:211:ARG:NH1	2.28	0.66
36:DA:1651:G:O2'	36:DA:1652:A:H5'	1.95	0.66
36:DA:2580:U:C5	36:DA:2581:G:C6	2.84	0.66
36:DA:2882:A:H5'	50:DR:96:ARG:HG3	1.77	0.66
40:DE:201:THR:C	40:DE:202:LYS:HD2	2.19	0.66
42:DG:34:LEU:HA	42:DG:161:THR:HG22	1.77	0.66
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.94	0.66
52:DT:64:ARG:HB2	52:DT:73:GLU:HG2	1.75	0.66
57:DY:13:VAL:HG22	57:DY:14:LEU:N	2.09	0.66
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.29	0.66
1:AA:160:A:H2'	1:AA:161:A:O4'	1.94	0.66
1:AA:614:A:O2'	1:AA:615:C:H5'	1.94	0.66
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.60	0.66
2:AB:151:GLY:O	2:AB:153:ARG:N	2.28	0.66
4:AD:85:LYS:HD3	4:AD:92:VAL:CG1	2.25	0.66
4:AD:149:ALA:O	4:AD:153:ARG:HG3	1.95	0.66
9:AI:11:LYS:C	9:AI:13:ALA:H	2.03	0.66
9:AI:103:THR:HG22	9:AI:104:ARG:O	1.94	0.66
25:AZ:234:ARG:CD	25:AZ:289:LEU:HD22	2.25	0.66
27:B1:50:ARG:HG2	27:B1:59:THR:CG2	2.26	0.66
36:BA:1466:G:H3'	36:BA:1547:C:H41	1.60	0.66
36:BA:1520:G:H2'	36:BA:1523:U:O4'	1.95	0.66
36:BA:1809:A:H2'	36:BA:1810:A:C8	2.31	0.66
36:BA:1902:C:H4'	39:BD:244:ARG:HB2	1.76	0.66
36:BA:2572:A:C8	40:BE:144:ARG:HD2	2.31	0.66
36:BA:2693:A:O2'	36:BA:2694:G:H5'	1.96	0.66
39:BD:144:ALA:HB3	39:BD:192:THR:HG22	1.75	0.66
40:BE:52:LEU:CB	40:BE:76:ARG:HB2	2.25	0.66
45:BK:7:UNK:HA	45:BK:58:UNK:HA	1.77	0.66
54:BV:24:LYS:H	54:BV:91:TYR:HA	1.60	0.66
1:CA:160:A:H2'	1:CA:161:A:O4'	1.95	0.66
1:CA:965:A:O2'	1:CA:966:G:H5''	1.94	0.66
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.77	0.66
11:CK:25:TYR:HE1	11:CK:87:THR:HB	1.60	0.66
13:CM:4:ILE:HD11	13:CM:10:PRO:HD3	1.77	0.66
19:CS:40:ILE:HG21	19:CS:67:VAL:HA	1.77	0.66
25:CZ:193:ASN:HB3	25:CZ:196:VAL:CG2	2.24	0.66
32:D6:18:ARG:HG2	32:D6:18:ARG:HH11	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D7:21:ARG:HG2	33:D7:21:ARG:NH1	2.10	0.66
36:DA:142(A):C:O2'	36:DA:143:G:H5'	1.95	0.66
36:DA:271(B):C:H42	36:DA:271(W):G:N2	1.94	0.66
36:DA:776:G:H4'	36:DA:777:A:O5'	1.95	0.66
36:DA:1058:G:H8	36:DA:1058:G:O5'	1.77	0.66
36:DA:1144:G:H2'	36:DA:1145:C:C6	2.30	0.66
36:DA:2580:U:H3'	36:DA:2581:G:C2	2.30	0.66
41:DF:131:GLY:HA2	41:DF:138:GLU:OE1	1.94	0.66
42:DG:15:VAL:HG12	42:DG:19:LEU:CG	2.24	0.66
42:DG:102:PHE:HA	42:DG:105:LYS:HZ3	1.60	0.66
43:DH:85:LYS:NZ	43:DH:132:ARG:HA	2.10	0.66
1:AA:17:U:H2'	1:AA:18:C:H6	1.55	0.66
1:AA:1015:A:H1'	1:AA:1218:C:O2'	1.96	0.66
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.77	0.66
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.59	0.66
7:AG:58:PRO:HG2	7:AG:59:LEU:H	1.59	0.66
7:AG:63:LYS:HZ2	7:AG:67:GLU:HB2	1.57	0.66
9:AI:43:ALA:C	9:AI:45:ALA:N	2.53	0.66
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.09	0.66
22:AW:53:G:N2	22:AW:62:C:H42	1.92	0.66
30:B4:9:LEU:HD13	30:B4:10:VAL:H	1.61	0.66
36:BA:382:G:O2'	36:BA:383:U:H5'	1.95	0.66
36:BA:582:G:H1	36:BA:1258:C:N4	1.93	0.66
36:BA:1030:G:OP2	49:BQ:128:LYS:HE2	1.94	0.66
36:BA:1064:C:C3'	36:BA:1065:U:H5''	2.25	0.66
36:BA:1067:A:H3'	36:BA:1068:G:C5'	2.23	0.66
36:BA:1399:C:O2'	36:BA:1400:G:H5'	1.96	0.66
36:BA:1855:G:H2'	36:BA:1856:G:C8	2.31	0.66
36:BA:1899:G:N2	36:BA:1902:C:N4	2.44	0.66
37:BB:98:G:H2'	37:BB:99:G:H8	1.60	0.66
39:BD:45:ASN:CG	39:BD:46:GLN:H	2.02	0.66
40:BE:165:VAL:HG12	40:BE:166:THR:H	1.59	0.66
43:BH:105:LEU:H	43:BH:105:LEU:HD23	1.59	0.66
48:BP:100:LEU:O	48:BP:103:ALA:HB3	1.95	0.66
53:BU:47:TYR:HA	53:BU:50:ARG:HD2	1.78	0.66
55:BW:14:PRO:HG2	55:BW:78:GLU:CD	2.21	0.66
56:BX:26:TYR:CE2	56:BX:89:ILE:HB	2.30	0.66
58:BZ:7:ALA:O	58:BZ:62:PRO:HD3	1.95	0.66
1:CA:1507:A:H5''	1:CA:1507:A:H8	1.61	0.66
8:CH:64:LYS:HG2	8:CH:65:TYR:N	2.09	0.66
11:CK:92:GLU:HG3	11:CK:96:ARG:HH11	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:55:VAL:CG2	12:CL:67:THR:HG22	2.25	0.66
16:CP:20:VAL:HG21	16:CP:32:TYR:CD2	2.30	0.66
25:CZ:67:HIS:HA	25:CZ:79:HIS:O	1.94	0.66
27:D1:56:GLN:OE1	27:D1:87:PRO:HD3	1.95	0.66
27:D1:62:VAL:CG1	27:D1:67:ILE:HG12	2.24	0.66
31:D5:55:ARG:HD3	31:D5:56:LYS:N	2.10	0.66
36:DA:582:G:H1	36:DA:1258:C:H42	1.44	0.66
36:DA:871:U:H4'	49:DQ:69:PHE:CZ	2.30	0.66
36:DA:1067:A:H3'	36:DA:1068:G:C5'	2.23	0.66
36:DA:1528(A):A:H2'	36:DA:1529:G:O4'	1.95	0.66
36:DA:2123:G:H2'	36:DA:2124:G:H8	1.60	0.66
36:DA:2413:G:H2'	36:DA:2414:G:H8	1.61	0.66
36:DA:2542:A:H5'	36:DA:2543:G:OP1	1.94	0.66
36:DA:2667:C:H2'	36:DA:2668:G:O4'	1.96	0.66
40:DE:120:TRP:HB3	40:DE:155:LYS:HE3	1.77	0.66
42:DG:32:PRO:HA	42:DG:162:THR:HB	1.76	0.66
42:DG:46:ALA:HA	42:DG:51:ARG:HB3	1.77	0.66
47:DO:19:ILE:HG22	47:DO:43:VAL:HA	1.77	0.66
48:DP:36:LYS:CB	48:DP:41:ARG:HB3	2.24	0.66
52:DT:4:GLY:O	52:DT:7:ILE:HB	1.95	0.66
54:DV:35:LEU:N	54:DV:35:LEU:HD22	2.10	0.66
55:DW:27:LYS:O	55:DW:70:TYR:HB2	1.94	0.66
55:DW:72:LYS:HE2	55:DW:108:GLY:HA3	1.78	0.66
56:DX:49:VAL:HB	56:DX:87:GLN:NE2	2.11	0.66
56:DX:60:ARG:HA	56:DX:75:ASP:CG	2.20	0.66
58:DZ:13:GLU:C	58:DZ:14:LYS:HG3	2.18	0.66
58:DZ:108:PRO:C	58:DZ:110:GLY:H	2.04	0.66
1:AA:571:U:H2'	1:AA:572:A:H5''	1.77	0.66
1:AA:922:G:H1'	5:AE:19:MET:HB2	1.76	0.66
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.26	0.66
3:AC:12:LEU:O	3:AC:14:ILE:N	2.27	0.66
3:AC:36:ASP:O	3:AC:40:ARG:HG3	1.95	0.66
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.59	0.66
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.62	0.66
17:AQ:85:VAL:O	17:AQ:89:LEU:HG	1.96	0.66
22:AV:56:C:C1'	42:BG:76:SER:HB2	2.25	0.66
22:AV:63:G:H2'	22:AV:64:A:H8	1.59	0.66
27:B1:3:LYS:HB3	27:B1:3:LYS:NZ	2.11	0.66
33:B7:12:ARG:HH21	33:B7:44:PRO:HB3	1.58	0.66
36:BA:18:C:O2'	53:BU:23:GLY:HA2	1.95	0.66
36:BA:83:G:O2'	36:BA:84:A:C8	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:465:G:H2'	36:BA:466:A:C8	2.29	0.66
36:BA:593:G:O2'	36:BA:594:U:H5'	1.95	0.66
36:BA:764:A:H3'	36:BA:765:G:H5'	1.76	0.66
36:BA:1141:U:H2'	46:BN:63:THR:HG22	1.76	0.66
36:BA:1651:G:O2'	36:BA:1652:A:H5'	1.96	0.66
36:BA:2485:G:H5''	49:BQ:46:GLN:NE2	2.11	0.66
37:BB:42:C:N4	42:BG:91:ARG:CZ	2.58	0.66
39:BD:59:LYS:HG3	39:BD:60:ARG:N	2.09	0.66
42:BG:28:VAL:C	42:BG:31:VAL:HG12	2.20	0.66
46:BN:32:THR:HB	46:BN:33:LEU:HD12	1.77	0.66
46:BN:34:LEU:HD21	46:BN:120:LEU:HD23	1.78	0.66
48:BP:16:ARG:HB2	48:BP:16:ARG:NH1	2.11	0.66
49:BQ:51:ARG:O	49:BQ:54:MET:HB3	1.94	0.66
52:BT:24:PRO:HD3	52:BT:52:ILE:CD1	2.21	0.66
55:BW:37:ARG:HG3	55:BW:37:ARG:HH11	1.60	0.66
1:CA:346:G:H2'	1:CA:346:G:N3	2.11	0.66
1:CA:867:G:O2'	1:CA:868:C:H5'	1.95	0.66
3:CC:12:LEU:O	3:CC:14:ILE:N	2.29	0.66
3:CC:113:ALA:HB1	3:CC:200:ALA:CB	2.23	0.66
9:CI:11:LYS:C	9:CI:13:ALA:H	2.03	0.66
12:CL:92:ASP:C	12:CL:93:LEU:HD23	2.21	0.66
22:CV:50:U:O2'	22:CV:51:U:H5'	1.96	0.66
30:D4:16:CYS:HB2	30:D4:36:CYS:SG	2.36	0.66
35:D9:12:ASP:C	35:D9:14:CYS:H	2.03	0.66
36:DA:751:A:C5'	55:DW:90:ARG:HA	2.26	0.66
36:DA:1038:C:H2'	36:DA:1039:G:H5''	1.77	0.66
36:DA:1399:C:O2'	36:DA:1400:G:H5'	1.95	0.66
36:DA:1423:G:H2'	36:DA:1424:G:C8	2.30	0.66
36:DA:1605:C:H2'	36:DA:1606:G:H5'	1.78	0.66
36:DA:1694:C:H1'	36:DA:1695:G:N2	2.11	0.66
36:DA:2687:U:C5	36:DA:2688:U:C5	2.83	0.66
40:DE:167:VAL:HG11	40:DE:188:VAL:HA	1.77	0.66
47:DO:101:PRO:HD3	52:DT:68:TYR:HB2	1.76	0.66
51:DS:106:ARG:NH1	51:DS:106:ARG:HB3	2.11	0.66
58:DZ:11:GLU:OE1	58:DZ:38:TYR:HE2	1.78	0.66
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.34	0.66
5:AE:53:LEU:O	5:AE:56:GLN:N	2.28	0.66
11:AK:87:THR:O	11:AK:91:ARG:HG3	1.96	0.66
16:AP:45:THR:C	16:AP:47:ASP:H	2.01	0.66
22:AV:6:G:H1	22:AV:67:C:N4	1.92	0.66
23:AX:20:U:H2'	23:AX:21:C:C6	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:204:ASP:O	25:AZ:208:GLU:HG2	1.96	0.66
27:B1:80:LEU:HD23	27:B1:81:LYS:H	1.59	0.66
33:B7:30:VAL:CG1	36:BA:466:A:H4'	2.25	0.66
36:BA:1144:G:H2'	36:BA:1145:C:C6	2.30	0.66
36:BA:2071:A:H2'	36:BA:2072:G:H8	1.61	0.66
36:BA:2405:G:H2'	36:BA:2411:A:N6	2.11	0.66
36:BA:2777:G:H5''	36:BA:2778:A:C5'	2.25	0.66
42:BG:10:LYS:HD2	42:BG:13:GLU:OE1	1.95	0.66
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	1.96	0.66
53:BU:21:ALA:HB1	53:BU:24:TYR:CD1	2.31	0.66
54:BV:35:LEU:N	54:BV:35:LEU:HD22	2.10	0.66
58:BZ:58:VAL:HG22	58:BZ:68:PRO:CA	2.24	0.66
1:CA:501:C:O2'	1:CA:502:G:H5'	1.95	0.66
1:CA:553:A:H2'	1:CA:554:C:C6	2.30	0.66
1:CA:633:G:H5'	1:CA:634:C:OP2	1.96	0.66
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.61	0.66
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.78	0.66
10:CJ:47:PHE:O	10:CJ:62:HIS:HB2	1.95	0.66
25:CZ:118:GLU:O	25:CZ:121:LEU:HD23	1.95	0.66
25:CZ:356:PRO:N	25:CZ:359:VAL:CG2	2.57	0.66
27:D1:58:ILE:CG1	27:D1:59:THR:N	2.58	0.66
36:DA:407:G:H2'	36:DA:408:G:C8	2.29	0.66
36:DA:811:U:H5	48:DP:24:GLY:HA3	1.58	0.66
36:DA:1285:G:H4'	50:DR:105:ARG:NH1	2.10	0.66
36:DA:1747(A):G:H2'	36:DA:1748:G:O4'	1.96	0.66
36:DA:2011:U:H2'	36:DA:2012:G:O4'	1.94	0.66
36:DA:2113:U:H2'	36:DA:2114:A:C8	2.31	0.66
36:DA:2810:A:O2'	40:DE:61:ARG:HB2	1.95	0.66
39:DD:239:ARG:HG2	39:DD:239:ARG:HH21	1.59	0.66
53:DU:110:VAL:O	53:DU:113:ALA:HB3	1.94	0.66
1:AA:426:G:H4'	4:AD:41:GLY:O	1.96	0.66
1:AA:920:U:H1'	1:AA:1080:A:C2	2.31	0.66
1:AA:936:C:O2'	1:AA:937:A:H5'	1.96	0.66
1:AA:1152:A:OP1	10:AJ:68:HIS:NE2	2.28	0.66
1:AA:1255:G:H21	1:AA:1258:G:H21	1.44	0.66
3:AC:187:ALA:O	3:AC:188:LEU:HD22	1.95	0.66
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.77	0.66
11:AK:92:GLU:HG3	11:AK:96:ARG:HH11	1.60	0.66
13:AM:34:LEU:HD22	13:AM:39:ILE:O	1.95	0.66
20:AT:64:ASP:O	20:AT:67:ALA:HB3	1.94	0.66
25:AZ:255:ILE:HD11	25:AZ:290:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:356:PRO:N	25:AZ:359:VAL:HG21	2.10	0.66
34:B8:39:LYS:HZ2	36:BA:2364:C:H5	1.43	0.66
36:BA:878:A:H5'	36:BA:878:A:N3	2.11	0.66
36:BA:1106:G:C2'	36:BA:1107:G:H5'	2.25	0.66
36:BA:2892:A:N7	36:BA:2893:G:N3	2.44	0.66
37:BB:68:C:H2'	37:BB:69:G:C8	2.27	0.66
38:BC:124:GLY:HA2	38:BC:128:GLY:HA3	1.76	0.66
41:BF:82:ILE:O	41:BF:83:PHE:HB3	1.94	0.66
42:BG:76:SER:CB	42:BG:83:ARG:HB3	2.26	0.66
43:BH:23:ARG:NH1	43:BH:36:PRO:HB3	2.10	0.66
50:BR:29:LEU:HD21	50:BR:52:ILE:HD11	1.76	0.66
52:BT:19:LEU:HD13	52:BT:78:LEU:CD2	2.26	0.66
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.10	0.66
1:CA:332:G:O2'	1:CA:333:G:H5'	1.95	0.66
1:CA:974:A:H2'	1:CA:974:A:N3	2.11	0.66
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.21	0.66
7:CG:69:VAL:HA	7:CG:138:LYS:CD	2.19	0.66
8:CH:14:ARG:HG3	8:CH:83:ILE:HG23	1.78	0.66
11:CK:125:PHE:HD1	11:CK:125:PHE:N	1.92	0.66
12:CL:37:CYS:HB2	12:CL:81:SER:O	1.96	0.66
12:CL:89:ARG:HD2	12:CL:91:LYS:HE2	1.77	0.66
13:CM:11:ARG:O	13:CM:13:LYS:N	2.29	0.66
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.60	0.66
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.25	0.66
22:CV:41:C:O2	22:CV:41:C:C2'	2.44	0.66
25:CZ:234:ARG:CD	25:CZ:289:LEU:HD22	2.26	0.66
28:D2:49:LYS:O	28:D2:53:LEU:HB2	1.96	0.66
34:D8:59:LYS:CD	48:DP:50:ARG:HB3	2.25	0.66
36:DA:189:G:H2'	36:DA:205:G:N2	2.11	0.66
36:DA:953:A:H2'	36:DA:954:G:H8	1.60	0.66
36:DA:1278:A:H5''	50:DR:36:THR:HG22	1.76	0.66
36:DA:1889:A:O2'	36:DA:2087:G:H5'	1.95	0.66
36:DA:2027:G:O2'	36:DA:2028:U:H5'	1.96	0.66
36:DA:2121:G:H2'	36:DA:2122:U:C6	2.31	0.66
36:DA:2175:C:O3'	38:DC:221:SER:HB3	1.95	0.66
36:DA:2693:A:O2'	36:DA:2694:G:H5'	1.96	0.66
36:DA:2833:G:C3'	36:DA:2834:G:H5''	2.25	0.66
38:DC:22:ILE:HG13	38:DC:228:SER:OG	1.95	0.66
43:DH:19:VAL:HG12	43:DH:20:ALA:N	2.11	0.66
50:DR:63:ARG:HG2	50:DR:80:PHE:CE2	2.29	0.66
56:DX:10:ALA:HB1	56:DX:11:PRO:HD2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:G:N2	1:AA:631:G:H2'	2.10	0.66
1:AA:866:C:H4'	1:AA:919:A:OP1	1.96	0.66
1:AA:943:U:H2'	1:AA:944:G:H5'	1.76	0.66
5:AE:71:LEU:O	5:AE:72:GLN:HG3	1.96	0.66
5:AE:100:VAL:CG2	5:AE:107:ARG:HH21	2.07	0.66
9:AI:7:THR:HG22	9:AI:8:GLY:H	1.60	0.66
9:AI:105:ASP:OD1	9:AI:107:ARG:HD3	1.96	0.66
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.26	0.66
10:AJ:50:ILE:HG22	10:AJ:60:ARG:HG2	1.76	0.66
28:B2:32:LEU:HD12	28:B2:57:ILE:HG13	1.77	0.66
29:B3:26:LEU:HB2	29:B3:28:LEU:HD21	1.78	0.66
30:B4:20:ASN:HD22	30:B4:21:VAL:N	1.94	0.66
34:B8:13:ARG:NH2	36:BA:250:G:OP2	2.28	0.66
36:BA:2111:C:N4	36:BA:2145:C:H2'	2.10	0.66
36:BA:2175:C:O3'	38:BC:221:SER:HB3	1.96	0.66
39:BD:34:VAL:HG23	39:BD:35:LYS:N	2.11	0.66
42:BG:36:LYS:HG2	42:BG:37:VAL:N	2.10	0.66
49:BQ:48:GLU:HG2	49:BQ:52:VAL:HG23	1.76	0.66
51:BS:96:GLY:C	51:BS:98:VAL:H	2.02	0.66
52:BT:45:PHE:CE1	52:BT:74:ARG:HG3	2.30	0.66
56:BX:57:LEU:O	56:BX:57:LEU:HD22	1.96	0.66
58:BZ:149:SER:CB	58:BZ:173:ALA:HA	2.26	0.66
1:CA:952:U:O2'	1:CA:953:G:H5'	1.95	0.66
1:CA:1255:G:H21	1:CA:1258:G:H21	1.43	0.66
5:CE:87:SER:OG	5:CE:125:SER:HB3	1.96	0.66
13:CM:40:ASN:OD1	13:CM:41:PRO:HD2	1.96	0.66
32:D6:10:LEU:H	32:D6:10:LEU:HD22	1.61	0.66
32:D6:14:THR:O	32:D6:49:HIS:HA	1.96	0.66
36:DA:2137:C:N4	36:DA:2154:G:H22	1.93	0.66
36:DA:2235:G:H2'	36:DA:2236:C:C6	2.31	0.66
38:DC:47:LEU:HD12	38:DC:47:LEU:N	2.11	0.66
58:DZ:12:GLY:HA3	58:DZ:36:LYS:HZ2	1.60	0.66
58:DZ:163:LEU:HD11	58:DZ:165:VAL:CG2	2.26	0.66
1:AA:585:G:H1	1:AA:756:C:H42	1.44	0.66
7:AG:84:ASN:OD1	22:AW:33:U:H5'	1.95	0.66
7:AG:125:MET:O	7:AG:128:ALA:HB3	1.95	0.66
9:AI:43:ALA:O	9:AI:45:ALA:N	2.29	0.66
12:AL:25:PRO:C	12:AL:27:LEU:N	2.52	0.66
12:AL:92:ASP:C	12:AL:93:LEU:HD23	2.20	0.66
19:AS:44:MET:O	19:AS:47:HIS:HB2	1.94	0.66
36:BA:272(B):G:H2'	36:BA:272(C):G:H8	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:406:G:H2'	36:BA:407:G:C8	2.31	0.66
36:BA:803:U:C2'	36:BA:804:A:H5'	2.26	0.66
36:BA:2632:A:O2'	40:BE:61:ARG:NH2	2.29	0.66
39:BD:4:LYS:HZ1	39:BD:20:ASP:HA	1.61	0.66
39:BD:76:PRO:HG2	39:BD:98:VAL:CG2	2.26	0.66
40:BE:179:GLU:O	40:BE:180:ASN:HB2	1.94	0.66
46:BN:48:MET:N	46:BN:48:MET:HE3	2.11	0.66
46:BN:131:GLN:HE22	46:BN:133:GLN:HA	1.61	0.66
47:BO:72:PRO:C	47:BO:74:GLY:N	2.51	0.66
48:BP:136:GLU:HA	48:BP:139:LYS:HB2	1.78	0.66
54:BV:3:ALA:HB3	54:BV:14:VAL:HG23	1.78	0.66
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.59	0.66
2:CB:48:MET:CA	2:CB:51:LEU:HD12	2.24	0.66
3:CC:116:VAL:O	3:CC:119:ARG:HB3	1.96	0.66
4:CD:30:LYS:O	4:CD:32:ALA:N	2.27	0.66
6:CF:25:ILE:HA	6:CF:28:ARG:HD2	1.77	0.66
8:CH:63:LEU:H	8:CH:63:LEU:CD2	2.09	0.66
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.77	0.66
20:CT:67:ALA:HA	20:CT:72:LEU:O	1.96	0.66
28:D2:41:ILE:HG13	28:D2:42:GLY:N	2.09	0.66
29:D3:10:LYS:O	29:D3:53:LEU:HD22	1.96	0.66
36:DA:461:C:O2'	36:DA:462:C:H5'	1.96	0.66
36:DA:709:U:H2'	36:DA:710:G:H8	1.61	0.66
36:DA:1673:U:O2	36:DA:1675:C:H5'	1.96	0.66
36:DA:2180:U:H2'	36:DA:2181:G:C8	2.31	0.66
36:DA:2359:C:H2'	36:DA:2360:A:H5'	1.76	0.66
36:DA:2485:G:H5''	49:DQ:46:GLN:NE2	2.11	0.66
41:DF:123:LEU:HD12	41:DF:124:LEU:H	1.60	0.66
45:DK:32:UNK:HA	45:DK:63:UNK:O	1.96	0.66
47:DO:104:ARG:NH1	47:DO:104:ARG:HB2	2.09	0.66
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.60	0.66
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.95	0.66
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.10	0.66
1:AA:250:A:H2	1:AA:274:A:N1	1.94	0.66
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.54	0.66
3:AC:177:THR:HB	3:AC:180:ALA:HB2	1.77	0.66
5:AE:102:ALA:CB	5:AE:120:THR:HG21	2.26	0.66
22:AV:40:C:H2'	22:AV:41:C:H6	1.61	0.66
25:AZ:79:HIS:HD2	25:AZ:80:VAL:N	1.94	0.66
25:AZ:194:GLU:HB3	25:AZ:198:LYS:NZ	2.10	0.66
36:BA:481:G:H1'	36:BA:506:G:N2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:565:C:H4'	36:BA:1253:A:N1	2.11	0.66
36:BA:1028:A:N6	36:BA:1125:G:H2'	2.11	0.66
36:BA:2023:G:H5'	36:BA:2617:C:H4'	1.77	0.66
40:BE:78:LEU:O	40:BE:79:ARG:HD2	1.96	0.66
40:BE:135:HIS:O	40:BE:136:ARG:HG3	1.95	0.66
42:BG:46:ALA:HB3	42:BG:88:ILE:HG13	1.77	0.66
50:BR:42:LYS:O	50:BR:45:ARG:HG2	1.96	0.66
50:BR:42:LYS:O	50:BR:45:ARG:N	2.24	0.66
50:BR:45:ARG:HG3	50:BR:46:GLY:N	2.09	0.66
50:BR:52:ILE:CD1	50:BR:79:LEU:HD21	2.26	0.66
53:BU:88:ILE:HB	53:BU:90:VAL:CG2	2.26	0.66
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.60	0.66
4:CD:188:LEU:HD23	4:CD:189:PRO:O	1.96	0.66
5:CE:101:ILE:O	5:CE:120:THR:HG22	1.95	0.66
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	1.96	0.66
13:CM:108:ARG:HA	13:CM:108:ARG:NH1	2.10	0.66
31:D5:5:PRO:HA	36:DA:2056:G:H22	1.61	0.66
36:DA:38:A:H5'	41:DF:50:SER:OG	1.95	0.66
36:DA:1064:C:C3'	36:DA:1065:U:H5''	2.25	0.66
36:DA:1579:A:H2'	36:DA:1580:A:C1'	2.26	0.66
36:DA:1592:C:H2'	36:DA:1593:G:H8	1.61	0.66
36:DA:1654:A:OP2	50:DR:3:HIS:HD2	1.78	0.66
42:DG:113:ARG:O	42:DG:115:ARG:N	2.27	0.66
52:DT:19:LEU:HD13	52:DT:78:LEU:HD22	1.76	0.66
1:AA:532:A:H2	1:AA:1206:G:H21	1.44	0.65
1:AA:927:G:H5'	1:AA:927:G:H8	1.61	0.65
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.10	0.65
14:AN:48:ALA:HA	14:AN:53:LEU:HB2	1.79	0.65
17:AQ:66:SER:OG	17:AQ:69:LYS:HB3	1.96	0.65
19:AS:5:LEU:HD12	19:AS:8:GLY:O	1.96	0.65
21:AU:6:ARG:HD3	21:AU:15:ARG:NH1	2.11	0.65
26:B0:43:THR:HG23	26:B0:43:THR:O	1.96	0.65
32:B6:15:GLU:OE2	32:B6:41:PRO:CB	2.45	0.65
36:BA:614(A):U:H4'	36:BA:614(B):G:OP1	1.95	0.65
36:BA:894:C:C2'	36:BA:895:U:H5'	2.25	0.65
36:BA:1971:A:N3	39:BD:240:ALA:HA	2.11	0.65
36:BA:2068:U:N3	36:BA:2430:A:C2	2.54	0.65
36:BA:2183:C:O2'	36:BA:2184:G:H5'	1.96	0.65
36:BA:2286:A:H4'	36:BA:2287:A:O4'	1.96	0.65
36:BA:2496:C:OP1	49:BQ:83:MET:HG2	1.96	0.65
36:BA:2579:C:O2'	40:BE:131:ALA:CB	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:148:GLU:HB3	39:BD:151:LYS:HD2	1.77	0.65
47:BO:17:ARG:O	47:BO:18:LYS:HB2	1.95	0.65
48:BP:7:ARG:HB3	48:BP:8:PRO:HD3	1.77	0.65
49:BQ:66:ILE:O	49:BQ:66:ILE:HG13	1.95	0.65
51:BS:27:SER:HA	51:BS:88:ASP:HB3	1.77	0.65
51:BS:77:ALA:HA	51:BS:80:LEU:HD12	1.78	0.65
51:BS:106:ARG:HD2	51:BS:107:GLU:C	2.21	0.65
52:BT:89:VAL:HG21	52:BT:91:ARG:HH21	1.59	0.65
1:CA:575:G:OP1	1:CA:575:G:H4'	1.94	0.65
1:CA:606:G:N2	1:CA:631:G:H2'	2.10	0.65
1:CA:675:A:H2'	1:CA:676:A:C8	2.31	0.65
1:CA:1403:C:O5'	1:CA:1403:C:H6	1.79	0.65
2:CB:130:ARG:CZ	2:CB:134:GLU:HG3	2.26	0.65
2:CB:154:LEU:HD23	2:CB:156:LYS:NZ	2.12	0.65
9:CI:103:THR:HG22	9:CI:104:ARG:O	1.96	0.65
25:CZ:32:THR:O	25:CZ:33:TYR:C	2.38	0.65
30:D4:20:ASN:HD22	30:D4:21:VAL:N	1.94	0.65
36:DA:83:G:N2	36:DA:102:G:H2'	2.11	0.65
36:DA:272(D):G:H2'	36:DA:272(E):G:C8	2.31	0.65
36:DA:532:A:H5''	53:DU:28:ARG:HH12	1.61	0.65
36:DA:1515:G:H4'	36:DA:1556:C:O2'	1.96	0.65
36:DA:1520:G:H2'	36:DA:1523:U:O4'	1.95	0.65
36:DA:2310:A:O2'	36:DA:2311:A:H5''	1.95	0.65
39:DD:2:ALA:O	39:DD:3:VAL:O	2.14	0.65
39:DD:148:GLU:HB3	39:DD:151:LYS:HD2	1.78	0.65
42:DG:5:VAL:CG1	42:DG:6:ALA:H	2.09	0.65
58:DZ:76:LEU:CD1	58:DZ:81:ARG:HH12	2.08	0.65
1:AA:80:G:C2'	1:AA:81:U:H5'	2.26	0.65
7:AG:61:VAL:O	7:AG:62:PHE:C	2.39	0.65
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.79	0.65
22:AW:64:A:H2'	22:AW:65:G:C8	2.32	0.65
32:B6:15:GLU:HB2	32:B6:20:ASN:CB	2.27	0.65
36:BA:185:U:H4'	36:BA:218:A:H4'	1.78	0.65
36:BA:442:G:O4'	41:BF:46:ARG:HD3	1.96	0.65
36:BA:471:A:H2'	36:BA:472:A:H5''	1.77	0.65
36:BA:523:C:H4'	36:BA:540:C:O2	1.95	0.65
36:BA:2181:G:H2'	36:BA:2182:G:C8	2.23	0.65
36:BA:2304:G:N2	36:BA:2312:U:H3	1.94	0.65
36:BA:2361:A:H2'	36:BA:2362:G:H8	1.60	0.65
36:BA:2656:U:C2'	36:BA:2657:A:H5''	2.26	0.65
40:BE:167:VAL:HB	40:BE:189:PRO:HD3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:138:GLN:O	42:BG:140:ILE:HG13	1.96	0.65
43:BH:83:TYR:HB3	43:BH:135:GLY:O	1.96	0.65
47:BO:96:THR:O	47:BO:97:ARG:HG2	1.96	0.65
47:BO:112:MET:HA	47:BO:112:MET:HE2	1.77	0.65
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	1.96	0.65
57:BY:2:ARG:C	57:BY:4:LYS:H	2.03	0.65
1:CA:167:G:O2'	1:CA:168:G:H5'	1.97	0.65
1:CA:250:A:H2	1:CA:274:A:N1	1.93	0.65
1:CA:924:C:H2'	1:CA:925:G:C8	2.31	0.65
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	2.12	0.65
3:CC:77:ILE:HA	3:CC:84:ILE:HG22	1.76	0.65
5:CE:100:VAL:HG23	5:CE:107:ARG:NH2	2.10	0.65
13:CM:34:LEU:CD1	13:CM:41:PRO:HG3	2.26	0.65
31:D5:4:HIS:O	36:DA:2056:G:N2	2.29	0.65
32:D6:6:ARG:HH11	32:D6:6:ARG:CB	2.07	0.65
36:DA:473:G:H5''	36:DA:508:G:N2	2.11	0.65
36:DA:729:G:H2'	36:DA:1775:U:O2	1.96	0.65
36:DA:760:G:H3'	36:DA:761:A:C8	2.32	0.65
36:DA:782:A:H5'	36:DA:783:A:C2	2.31	0.65
36:DA:1106:G:C2'	36:DA:1107:G:H5'	2.26	0.65
36:DA:1224:C:O2'	54:DV:85:LYS:HA	1.97	0.65
36:DA:1343:G:H2'	36:DA:1344:G:H5'	1.77	0.65
36:DA:1824:G:H5''	39:DD:52:ARG:HH11	1.61	0.65
36:DA:1927:A:H2'	36:DA:1928:A:C8	2.31	0.65
36:DA:2230:G:H2'	36:DA:2231:C:C6	2.31	0.65
36:DA:2726:U:O2	36:DA:2726:U:H5'	1.96	0.65
37:DB:17:C:N4	37:DB:68:C:H42	1.91	0.65
58:DZ:69:THR:C	58:DZ:70:LEU:HD23	2.21	0.65
58:DZ:177:PRO:C	58:DZ:178:GLU:OE1	2.39	0.65
1:AA:18:C:C5'	5:AE:127:ASN:HD21	2.05	0.65
1:AA:375:U:OP1	16:AP:69:THR:HG21	1.96	0.65
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.62	0.65
2:AB:168:THR:HG23	2:AB:192:SER:OG	1.97	0.65
2:AB:189:ASP:HB3	2:AB:203:GLY:O	1.97	0.65
6:AF:19:LEU:HD23	6:AF:20:ALA:N	2.10	0.65
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.64	0.65
13:AM:12:ASN:ND2	13:AM:46:LYS:HB2	2.11	0.65
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.25	0.65
25:AZ:306:LYS:HB3	25:AZ:309:SER:HB2	1.78	0.65
34:B8:22:VAL:HG21	34:B8:53:PRO:HB2	1.78	0.65
34:B8:34:TRP:HA	36:BA:2420:C:OP1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:59:LYS:CD	48:BP:50:ARG:HB3	2.26	0.65
36:BA:371:A:H61	36:BA:401:A:H3'	1.62	0.65
36:BA:1177:A:H5'	36:BA:1178:C:C5	2.32	0.65
36:BA:1568:G:P	39:BD:63:ARG:HH22	2.20	0.65
36:BA:1592:C:H2'	36:BA:1593:G:H8	1.61	0.65
36:BA:2007:C:H5'	36:BA:2824:C:H1'	1.78	0.65
36:BA:2631:G:H21	40:BE:61:ARG:HH12	1.43	0.65
40:BE:38:THR:HG22	40:BE:40:GLU:N	2.10	0.65
46:BN:58:ASP:O	46:BN:60:ILE:N	2.29	0.65
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.11	0.65
47:BO:88:ASN:HD21	47:BO:92:GLU:HB3	1.60	0.65
49:BQ:12:GLN:NE2	49:BQ:73:PRO:HD2	2.09	0.65
50:BR:61:HIS:CE1	50:BR:65:LEU:HD22	2.31	0.65
52:BT:129:ARG:HG3	52:BT:129:ARG:O	1.96	0.65
53:BU:38:THR:O	53:BU:41:ALA:HB3	1.96	0.65
1:CA:307:C:H2'	1:CA:307:C:O2	1.97	0.65
1:CA:382:A:O2'	1:CA:383:A:H5'	1.96	0.65
1:CA:767:A:H2'	1:CA:768:A:C8	2.31	0.65
1:CA:892:A:H2'	1:CA:893:C:C6	2.30	0.65
1:CA:1015:A:H1'	1:CA:1218:C:O2'	1.95	0.65
1:CA:1516:G:H2'	1:CA:1518:A:OP2	1.97	0.65
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.20	0.65
2:CB:204:ASN:C	2:CB:204:ASN:HD22	2.04	0.65
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.60	0.65
11:CK:57:THR:HG23	11:CK:60:ALA:H	1.61	0.65
25:CZ:138:VAL:HG11	25:CZ:172:ARG:HB3	1.79	0.65
26:D0:19:LYS:HB3	26:D0:21:LEU:HD21	1.76	0.65
28:D2:38:GLN:HB2	28:D2:44:LEU:HD22	1.78	0.65
33:D7:8:ASN:C	33:D7:8:ASN:ND2	2.55	0.65
36:DA:76:C:H2'	36:DA:77:C:C6	2.31	0.65
36:DA:90:U:O2'	36:DA:92:A:H5''	1.96	0.65
36:DA:628:G:H2'	36:DA:629:G:C5'	2.25	0.65
36:DA:1170:G:H22	36:DA:1179:C:N4	1.94	0.65
36:DA:2084:C:H2'	36:DA:2085:C:H6	1.62	0.65
36:DA:2125:G:H5'	38:DC:40:THR:OG1	1.96	0.65
36:DA:2656:U:C2'	36:DA:2657:A:H5''	2.27	0.65
39:DD:148:GLU:CB	39:DD:151:LYS:HD2	2.26	0.65
42:DG:42:GLY:HA2	42:DG:90:LEU:H	1.61	0.65
43:DH:86:GLU:N	43:DH:86:GLU:OE2	2.30	0.65
46:DN:54:VAL:HB	46:DN:122:VAL:HG13	1.77	0.65
1:AA:547:A:H4'	1:AA:548:G:O5'	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.44	0.65
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.96	0.65
1:AA:1491:G:C2'	59:AA:1601:PAR:O31	2.42	0.65
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.26	0.65
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.78	0.65
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.21	0.65
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.96	0.65
10:AJ:54:PHE:CA	10:AJ:55:LYS:HE3	2.25	0.65
22:AW:55:U:H5	22:AW:58:A:OP2	1.79	0.65
27:B1:24:ALA:HB2	27:B1:32:LYS:NZ	2.11	0.65
35:B9:19:ARG:C	35:B9:21:GLY:H	2.03	0.65
36:BA:94(A):G:C2'	36:BA:95:G:H5''	2.19	0.65
36:BA:709:U:H2'	36:BA:710:G:H8	1.61	0.65
36:BA:1799:G:H5'	36:BA:1819:A:H61	1.61	0.65
36:BA:2337:G:H2'	36:BA:2338:G:H8	1.61	0.65
40:BE:167:VAL:HG21	40:BE:187:ALA:O	1.97	0.65
41:BF:24:LEU:O	41:BF:26:ALA:N	2.30	0.65
41:BF:124:LEU:HD12	41:BF:125:LEU:H	1.61	0.65
43:BH:89:ILE:O	43:BH:89:ILE:HG13	1.96	0.65
52:BT:52:ILE:HG12	52:BT:61:PHE:HB3	1.76	0.65
53:BU:88:ILE:HB	53:BU:90:VAL:HG23	1.78	0.65
54:BV:19:LYS:HG2	54:BV:94:LEU:CB	2.25	0.65
55:BW:65:LEU:HD23	55:BW:68:ARG:HD2	1.79	0.65
58:BZ:109:ALA:HB3	58:BZ:144:LEU:O	1.96	0.65
1:CA:563:A:H2'	1:CA:563:A:N3	2.12	0.65
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.21	0.65
2:CB:96:ARG:O	2:CB:97:TRP:C	2.39	0.65
4:CD:79:PHE:HA	4:CD:93:PHE:CE2	2.32	0.65
6:CF:80:ARG:NH1	6:CF:88:VAL:HB	2.10	0.65
10:CJ:27:ALA:O	10:CJ:31:GLY:N	2.30	0.65
12:CL:119:LYS:O	12:CL:120:TYR:CG	2.50	0.65
25:CZ:389:ARG:NH2	25:CZ:393:ARG:N	2.45	0.65
26:D0:43:THR:HG23	26:D0:43:THR:O	1.96	0.65
32:D6:32:ASN:CG	32:D6:33:LYS:H	2.05	0.65
36:DA:142:A:H1'	36:DA:1408:C:H1'	1.78	0.65
36:DA:292:C:O2'	36:DA:293:U:H5'	1.96	0.65
36:DA:1473:G:H2'	36:DA:1474:C:O4'	1.96	0.65
36:DA:1902:C:O4'	39:DD:244:ARG:HG3	1.96	0.65
36:DA:2015:A:H2'	36:DA:2016:U:O4'	1.96	0.65
36:DA:2126:A:H4'	36:DA:2127:G:O5'	1.95	0.65
36:DA:2159:G:H2'	36:DA:2160:G:H5''	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2892:A:N7	36:DA:2893:G:N3	2.44	0.65
39:DD:23:GLU:O	39:DD:82:ILE:HD12	1.96	0.65
39:DD:142:VAL:HG23	39:DD:192:THR:O	1.96	0.65
48:DP:136:GLU:HA	48:DP:139:LYS:HB2	1.77	0.65
53:DU:88:ILE:HB	53:DU:90:VAL:CG2	2.26	0.65
58:DZ:23:LYS:HD3	58:DZ:38:TYR:CD1	2.31	0.65
1:AA:46:G:H1'	1:AA:396:G:N2	2.11	0.65
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.11	0.65
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.26	0.65
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.43	0.65
9:AI:22:GLY:O	9:AI:59:PHE:N	2.29	0.65
11:AK:57:THR:HG23	11:AK:60:ALA:H	1.60	0.65
25:AZ:118:GLU:O	25:AZ:121:LEU:HD23	1.96	0.65
27:B1:3:LYS:HD3	36:BA:1364:G:N7	2.12	0.65
36:BA:328:U:H4'	57:BY:68:HIS:CE1	2.31	0.65
36:BA:380:U:H2'	36:BA:381:G:C8	2.32	0.65
36:BA:519:U:H5''	55:BW:25:ARG:NH1	2.12	0.65
36:BA:691:C:O2'	36:BA:692:C:H5'	1.96	0.65
36:BA:864:G:H1'	36:BA:914:C:N4	2.12	0.65
36:BA:1673:U:O2	36:BA:1675:C:H5'	1.96	0.65
36:BA:1796:U:H2'	36:BA:1797:C:C6	2.31	0.65
41:BF:171:PRO:O	41:BF:173:VAL:N	2.30	0.65
43:BH:67:LEU:HG	43:BH:71:LEU:CD1	2.26	0.65
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.10	0.65
57:BY:14:LEU:HD13	57:BY:24:VAL:HG22	1.78	0.65
57:BY:96:ILE:HD11	57:BY:99:CYS:SG	2.36	0.65
58:BZ:77:ASP:O	58:BZ:78:LYS:HB2	1.97	0.65
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.11	0.65
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.10	0.65
3:CC:26:LYS:HZ3	3:CC:27:LYS:HD2	1.61	0.65
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.11	0.65
10:CJ:55:LYS:HE3	10:CJ:55:LYS:N	2.10	0.65
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.78	0.65
25:CZ:204:ASP:O	25:CZ:208:GLU:HG2	1.95	0.65
26:D0:55:ARG:C	26:D0:57:PHE:H	2.04	0.65
34:D8:13:ARG:NH1	48:DP:59:LEU:HG	2.11	0.65
36:DA:271(H):G:O2'	36:DA:271(I):G:H8	1.72	0.65
36:DA:1799:G:H5'	36:DA:1819:A:H61	1.62	0.65
36:DA:2007:C:H5'	36:DA:2824:C:H1'	1.77	0.65
41:DF:57:VAL:HG12	41:DF:58:ALA:H	1.60	0.65
48:DP:131:SER:OG	48:DP:134:ALA:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:79:LEU:HD23	49:DQ:80:GLU:N	2.11	0.65
53:DU:20:LEU:H	53:DU:20:LEU:CD2	2.09	0.65
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.24	0.65
1:AA:225:C:H2'	1:AA:226:G:H8	1.62	0.65
1:AA:795:C:H1'	1:AA:1506:U:C5	2.30	0.65
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	1.78	0.65
3:AC:120:VAL:O	3:AC:124:ILE:HG13	1.96	0.65
5:AE:12:LEU:HD22	5:AE:13:ILE:N	2.11	0.65
6:AF:2:ARG:CZ	6:AF:69:GLU:HG3	2.27	0.65
25:AZ:248:LYS:HD3	25:AZ:279:GLU:HG3	1.79	0.65
25:AZ:356:PRO:HD2	25:AZ:359:VAL:HG21	1.79	0.65
30:B4:9:LEU:C	30:B4:10:VAL:HG12	2.22	0.65
32:B6:15:GLU:OE1	32:B6:18:ARG:NE	2.30	0.65
36:BA:1902:C:H1'	39:BD:244:ARG:NE	2.12	0.65
36:BA:2113:U:H2'	36:BA:2114:A:C8	2.31	0.65
36:BA:2317:C:C2'	36:BA:2318:G:H5'	2.26	0.65
36:BA:2787:C:H2'	36:BA:2787:C:O2	1.97	0.65
37:BB:20:C:H2'	37:BB:21:G:C5'	2.25	0.65
40:BE:83:ASP:O	40:BE:84:PHE:HB2	1.95	0.65
42:BG:107:LEU:O	42:BG:111:LEU:HD11	1.97	0.65
48:BP:131:SER:OG	48:BP:134:ALA:HB3	1.96	0.65
52:BT:56:GLY:O	52:BT:59:THR:HG23	1.97	0.65
53:BU:79:PHE:O	53:BU:83:LEU:HD13	1.97	0.65
55:BW:27:LYS:O	55:BW:70:TYR:HB2	1.97	0.65
55:BW:82:LEU:HB3	55:BW:84:ARG:NH1	2.12	0.65
2:CB:75:LYS:O	2:CB:77:ALA:N	2.28	0.65
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.11	0.65
7:CG:61:VAL:O	7:CG:62:PHE:C	2.39	0.65
9:CI:99:LEU:C	9:CI:101:PHE:H	2.04	0.65
22:CW:53:G:N2	22:CW:62:C:N4	2.45	0.65
27:D1:45:ASN:O	27:D1:64:ALA:HB2	1.96	0.65
27:D1:70:VAL:HA	27:D1:73:LEU:HD13	1.79	0.65
36:DA:523:C:H4'	36:DA:540:C:O2	1.96	0.65
36:DA:678:C:H2'	36:DA:679:C:H6	1.62	0.65
36:DA:747:U:O3'	55:DW:89:ALA:HB2	1.96	0.65
36:DA:845:G:OP2	36:DA:845:G:H8	1.79	0.65
36:DA:2087:G:O2'	36:DA:2088:G:H5'	1.95	0.65
36:DA:2626:C:H2'	36:DA:2627:G:C8	2.32	0.65
36:DA:2632:A:O2'	40:DE:61:ARG:NH2	2.30	0.65
40:DE:38:THR:HG22	40:DE:40:GLU:N	2.11	0.65
40:DE:202:LYS:HD2	40:DE:202:LYS:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:138:GLN:HB3	42:DG:153:ARG:O	1.97	0.65
48:DP:122:PRO:HB3	48:DP:141:ALA:HB1	1.78	0.65
49:DQ:48:GLU:HG2	49:DQ:52:VAL:HG23	1.79	0.65
51:DS:27:SER:HA	51:DS:88:ASP:HB3	1.76	0.65
52:DT:11:GLU:H	52:DT:11:GLU:CD	2.05	0.65
55:DW:14:PRO:HG2	55:DW:78:GLU:CD	2.21	0.65
55:DW:29:LEU:O	55:DW:33:ARG:HG3	1.97	0.65
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ2	1.61	0.65
1:AA:307:C:O2	1:AA:307:C:H2'	1.96	0.65
1:AA:935:A:H2'	1:AA:936:C:C6	2.32	0.65
2:AB:154:LEU:O	2:AB:156:LYS:N	2.30	0.65
2:AB:213:LEU:O	2:AB:216:SER:HB3	1.96	0.65
3:AC:207:VAL:O	3:AC:207:VAL:HG12	1.95	0.65
4:AD:95:GLY:O	4:AD:98:GLU:N	2.28	0.65
4:AD:100:ARG:HG2	4:AD:102:ASP:OD1	1.96	0.65
25:AZ:355:LEU:HB3	25:AZ:359:VAL:HB	1.78	0.65
26:B0:19:LYS:O	26:B0:21:LEU:HG	1.96	0.65
27:B1:44:PRO:O	27:B1:46:LEU:N	2.30	0.65
27:B1:71:TYR:HA	27:B1:74:VAL:CG2	2.26	0.65
30:B4:16:CYS:SG	30:B4:17:GLY:N	2.70	0.65
34:B8:8:LYS:HA	34:B8:11:LYS:HB3	1.77	0.65
36:BA:216:A:O2'	36:BA:217:G:H5'	1.96	0.65
36:BA:612:C:C2'	36:BA:613:G:H5''	2.27	0.65
36:BA:1326:U:H2'	36:BA:1327:C:C6	2.31	0.65
36:BA:2023:G:H4'	36:BA:2617:C:O3'	1.97	0.65
39:BD:166:GLN:HB3	39:BD:174:ILE:HB	1.79	0.65
40:BE:4:ILE:O	40:BE:5:LEU:HD23	1.97	0.65
41:BF:171:PRO:C	41:BF:173:VAL:H	2.04	0.65
42:BG:133:LEU:C	42:BG:133:LEU:HD12	2.21	0.65
46:BN:42:TRP:CZ2	46:BN:44:PRO:HA	2.32	0.65
48:BP:135:LEU:HD13	48:BP:135:LEU:O	1.97	0.65
54:BV:17:GLY:C	54:BV:18:LEU:HD13	2.22	0.65
58:BZ:151:HIS:HA	58:BZ:171:ILE:HD11	1.77	0.65
1:CA:15:G:C4'	5:CE:24:ARG:HH21	2.09	0.65
1:CA:675:A:H2'	1:CA:676:A:H8	1.61	0.65
1:CA:1351:U:O2'	1:CA:1352:C:H5'	1.97	0.65
1:CA:1442(A):G:H5''	52:DT:118:ARG:HH12	1.60	0.65
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.25	0.65
12:CL:41:ARG:HG3	12:CL:41:ARG:NH1	2.09	0.65
25:CZ:241:ARG:CB	25:CZ:285:ASN:HD21	2.09	0.65
25:CZ:310:ILE:HD11	25:CZ:381:GLU:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D0:30:VAL:HA	26:D0:66:VAL:HA	1.78	0.65
28:D2:48:HIS:O	28:D2:52:ASP:HB2	1.97	0.65
32:D6:15:GLU:OE2	32:D6:41:PRO:CB	2.45	0.65
34:D8:34:TRP:HA	36:DA:2420:C:OP1	1.96	0.65
34:D8:52:LYS:HG2	48:DP:58:THR:HG21	1.78	0.65
35:D9:29:ASN:ND2	35:D9:29:ASN:O	2.30	0.65
36:DA:272(B):G:H1	36:DA:366:C:H42	1.41	0.65
36:DA:272(I):U:H2'	36:DA:272(J):C:H5'	1.79	0.65
36:DA:894:C:C2'	36:DA:895:U:H5'	2.26	0.65
36:DA:1018:C:H2'	36:DA:1019:U:C6	2.32	0.65
36:DA:1390:U:O2'	36:DA:1391:U:H5'	1.96	0.65
36:DA:1657:C:O2'	36:DA:1658:C:H5'	1.97	0.65
36:DA:2245:U:H5'	36:DA:2246:G:C5'	2.27	0.65
36:DA:2393:A:C2'	36:DA:2394:C:H5'	2.26	0.65
36:DA:2875:C:H4'	52:DT:5:ALA:CB	2.27	0.65
38:DC:20:TYR:HB3	38:DC:24:GLU:CB	2.26	0.65
38:DC:58:VAL:HG22	38:DC:201:PRO:CD	2.26	0.65
48:DP:23:PRO:HD2	48:DP:33:ARG:HH21	1.62	0.65
51:DS:96:GLY:C	51:DS:98:VAL:H	2.04	0.65
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.76	0.65
1:AA:673:G:H5''	6:AF:87:ARG:CZ	2.26	0.65
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.32	0.65
3:AC:68:VAL:HG12	3:AC:70:VAL:CG2	2.26	0.65
6:AF:80:ARG:NH1	6:AF:88:VAL:HB	2.12	0.65
8:AH:14:ARG:HB2	8:AH:14:ARG:NH1	2.12	0.65
10:AJ:63:PHE:HA	14:AN:59:ALA:H	1.62	0.65
13:AM:11:ARG:O	13:AM:13:LYS:N	2.29	0.65
17:AQ:13:ASP:C	17:AQ:15:MET:H	2.03	0.65
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.78	0.65
25:AZ:241:ARG:CB	25:AZ:285:ASN:HD21	2.10	0.65
27:B1:25:LYS:CB	36:BA:388:G:H5'	2.27	0.65
34:B8:23:VAL:HG13	34:B8:47:LYS:O	1.96	0.65
36:BA:344:G:H3'	36:BA:344:G:OP2	1.96	0.65
36:BA:736:C:H42	36:BA:760:G:H1	1.43	0.65
36:BA:1423:G:H2'	36:BA:1424:G:C8	2.31	0.65
36:BA:1858:G:H1'	36:BA:1884:A:N6	2.11	0.65
36:BA:2180:U:H2'	36:BA:2181:G:C8	2.32	0.65
38:BC:215:THR:OG1	38:BC:216:THR:N	2.29	0.65
41:BF:178:PRO:HB2	41:BF:201:VAL:HG11	1.76	0.65
49:BQ:45:GLN:H	49:BQ:45:GLN:HE21	1.41	0.65
52:BT:10:VAL:C	52:BT:12:SER:H	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:29:LEU:O	55:BW:33:ARG:HG3	1.96	0.65
55:BW:72:LYS:HE2	55:BW:108:GLY:HA3	1.77	0.65
1:CA:454:C:H5''	1:CA:455:C:C5	2.31	0.65
1:CA:673:G:H5''	6:CF:87:ARG:CZ	2.27	0.65
2:CB:179:LYS:HA	8:CH:72:PRO:CD	2.27	0.65
28:D2:32:LEU:HA	28:D2:53:LEU:HD13	1.78	0.65
32:D6:8:LYS:HE3	32:D6:25:LYS:CD	2.26	0.65
36:DA:8:A:H2'	36:DA:9:U:C5	2.32	0.65
36:DA:702:G:O2'	36:DA:703:U:H5'	1.96	0.65
36:DA:1120:G:H2'	36:DA:1121:C:C6	2.31	0.65
36:DA:1132:A:H2'	36:DA:1133:U:C6	2.31	0.65
36:DA:1563:G:O2'	36:DA:1564:C:H5'	1.97	0.65
36:DA:2290:G:N2	36:DA:2343:C:H1'	2.11	0.65
41:DF:178:PRO:CB	41:DF:201:VAL:HG11	2.27	0.65
42:DG:51:ARG:HD3	42:DG:53:LEU:HD21	1.77	0.65
43:DH:52:VAL:CB	43:DH:69:ARG:HD3	2.16	0.65
48:DP:23:PRO:HB3	48:DP:29:LYS:HB3	1.78	0.65
53:DU:53:ARG:O	53:DU:56:ASP:HB2	1.96	0.65
55:DW:1:MET:HG3	55:DW:64:MET:HE3	1.77	0.65
57:DY:2:ARG:C	57:DY:4:LYS:H	2.04	0.65
1:AA:167:G:O2'	1:AA:168:G:H5'	1.97	0.65
1:AA:491:G:H2'	1:AA:492:G:H8	1.62	0.65
1:AA:1460:A:H2'	1:AA:1461:G:O4'	1.96	0.65
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.61	0.65
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	1.77	0.65
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.10	0.65
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.61	0.65
8:AH:9:MET:HE3	8:AH:36:LEU:HD21	1.79	0.65
8:AH:25:ASP:O	8:AH:26:VAL:HB	1.97	0.65
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.79	0.65
12:AL:17:LYS:NZ	12:AL:18:VAL:HG22	2.12	0.65
19:AS:40:ILE:HG21	19:AS:67:VAL:HA	1.79	0.65
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.12	0.65
28:B2:38:GLN:CB	28:B2:44:LEU:HD22	2.27	0.65
36:BA:302:C:H42	36:BA:315:G:H1	1.45	0.65
36:BA:963:U:H2'	36:BA:964:C:C6	2.31	0.65
36:BA:1326:U:H2'	36:BA:1327:C:H6	1.61	0.65
36:BA:1409:C:H2'	36:BA:1410:G:H8	1.62	0.65
36:BA:2619:C:O2'	36:BA:2620:C:H5'	1.96	0.65
36:BA:2875:C:H4'	52:BT:5:ALA:CB	2.26	0.65
43:BH:132:ARG:O	43:BH:132:ARG:HG3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:62:VAL:CG2	46:BN:66:LYS:HD2	2.25	0.65
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.12	0.65
53:BU:20:LEU:H	53:BU:20:LEU:HD22	1.62	0.65
1:CA:939:G:H2'	1:CA:940:C:C5	2.31	0.65
1:CA:943:U:H2'	1:CA:944:G:H5'	1.79	0.65
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.27	0.65
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.37	0.65
9:CI:7:THR:O	9:CI:80:GLY:HA2	1.95	0.65
25:CZ:226:GLU:HG3	25:CZ:240:GLY:HA2	1.78	0.65
31:D5:43:HIS:HE1	36:DA:2816:C:H1'	1.61	0.65
36:DA:534:U:O2'	53:DU:49:HIS:CD2	2.50	0.65
36:DA:598:G:H5'	48:DP:15:ARG:CD	2.23	0.65
36:DA:907:U:H4'	49:DQ:101:ARG:HH12	1.62	0.65
36:DA:1208:C:H2'	36:DA:1209:G:C8	2.31	0.65
36:DA:2134:A:N6	36:DA:2157:G:H1'	2.11	0.65
36:DA:2484:G:O2'	36:DA:2485:G:H5'	1.97	0.65
37:DB:24:G:O6	37:DB:56:G:H2'	1.97	0.65
40:DE:9:VAL:HG13	40:DE:25:VAL:HB	1.79	0.65
43:DH:52:VAL:HG21	43:DH:69:ARG:CB	2.27	0.65
48:DP:102:ARG:HB2	48:DP:102:ARG:HH21	1.60	0.65
53:DU:88:ILE:HB	53:DU:90:VAL:HG23	1.78	0.65
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.79	0.65
1:AA:1155:G:O2'	1:AA:1156:G:H5'	1.97	0.65
1:AA:1348:U:HO2'	1:AA:1349:A:H8	1.40	0.65
3:AC:153:VAL:O	3:AC:154:SER:CB	2.45	0.65
4:AD:31:CYS:C	4:AD:33:MET:N	2.53	0.65
4:AD:70:ILE:HG23	4:AD:74:GLN:HB2	1.79	0.65
6:AF:87:ARG:NH1	6:AF:87:ARG:HG2	2.12	0.65
8:AH:118:VAL:C	8:AH:119:LEU:HD23	2.22	0.65
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.31	0.65
13:AM:13:LYS:O	13:AM:45:VAL:HG23	1.97	0.65
13:AM:91:ARG:NH1	13:AM:96:LEU:HD13	2.12	0.65
16:AP:8:ARG:HH22	16:AP:15:PRO:HG3	1.61	0.65
22:AV:50:U:H2'	22:AV:51:U:O4'	1.97	0.65
22:AW:24:G:H2'	22:AW:25:C:O4'	1.97	0.65
26:B0:77:ARG:NH2	36:BA:857:C:H5'	2.10	0.65
30:B4:16:CYS:HB2	30:B4:36:CYS:SG	2.36	0.65
33:B7:18:PHE:CZ	36:BA:117:G:H4'	2.32	0.65
34:B8:10:ALA:HA	34:B8:13:ARG:CG	2.19	0.65
36:BA:8:A:H2'	36:BA:9:U:C5	2.32	0.65
36:BA:76:C:H2'	36:BA:77:C:C6	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:272(I):U:H2'	36:BA:272(J):C:H5'	1.78	0.65
36:BA:667:U:H2'	36:BA:668:G:O4'	1.96	0.65
36:BA:686:G:H21	36:BA:788:A:H61	1.45	0.65
36:BA:2053:G:C2	36:BA:2054:A:H1'	2.31	0.65
36:BA:2334:G:H5'	51:BS:13:ARG:HD3	1.78	0.65
39:BD:140:THR:O	39:BD:165:ILE:HG12	1.97	0.65
42:BG:125:PHE:HZ	42:BG:173:LEU:HD12	1.60	0.65
42:BG:130:ASN:OD1	42:BG:163:ALA:HB3	1.97	0.65
46:BN:23:LEU:HD12	46:BN:102:ALA:CB	2.27	0.65
50:BR:28:LEU:HD23	50:BR:28:LEU:C	2.22	0.65
1:CA:885:G:O2'	1:CA:886:G:H5'	1.96	0.65
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.97	0.65
3:CC:30:ARG:HD2	14:CN:38:GLY:HA3	1.78	0.65
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	1.77	0.65
7:CG:22:LEU:O	7:CG:22:LEU:HD23	1.97	0.65
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.78	0.65
12:CL:25:PRO:C	12:CL:27:LEU:N	2.54	0.65
24:CY:28:A:H2'	24:CY:29:C:H6	1.61	0.65
25:CZ:306:LYS:HB3	25:CZ:309:SER:HB2	1.78	0.65
36:DA:428:A:N3	36:DA:428:A:H2'	2.12	0.65
36:DA:481:G:H1'	36:DA:506:G:N2	2.12	0.65
36:DA:612:C:C2'	36:DA:613:G:C5'	2.74	0.65
36:DA:1543:C:C3'	36:DA:1544:A:H5''	2.26	0.65
36:DA:2161:C:H2'	36:DA:2162:G:C8	2.25	0.65
36:DA:2199:A:H3'	36:DA:2200:C:H6	1.62	0.65
36:DA:2833:G:C3'	36:DA:2834:G:C5'	2.71	0.65
37:DB:60:C:H2'	37:DB:61:G:H8	1.62	0.65
38:DC:147:PHE:C	38:DC:149:ILE:N	2.49	0.65
41:DF:24:LEU:O	41:DF:26:ALA:N	2.30	0.65
41:DF:43:LYS:HB3	41:DF:98:SER:HB3	1.77	0.65
41:DF:81:PRO:O	41:DF:82:ILE:C	2.40	0.65
51:DS:11:LYS:HD2	51:DS:11:LYS:N	2.11	0.65
53:DU:6:THR:O	53:DU:9:VAL:HG22	1.96	0.65
56:DX:10:ALA:HB3	56:DX:29:TRP:HD1	1.62	0.65
1:AA:522:C:H2'	1:AA:523:A:H8	1.62	0.64
1:AA:974:A:H2'	1:AA:974:A:N3	2.11	0.64
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.12	0.64
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.32	0.64
10:AJ:54:PHE:C	10:AJ:55:LYS:CE	2.67	0.64
11:AK:124:LYS:HB2	11:AK:124:LYS:NZ	2.11	0.64
20:AT:50:GLU:HA	20:AT:100:ILE:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:70:GLN:NE2	26:B0:80:HIS:HE2	1.95	0.64
32:B6:14:THR:CG2	32:B6:50:ARG:HB2	2.26	0.64
34:B8:7:HIS:O	34:B8:11:LYS:HB2	1.97	0.64
36:BA:845:G:OP2	36:BA:845:G:H8	1.79	0.64
36:BA:1208:C:H2'	36:BA:1209:G:C8	2.30	0.64
36:BA:1718:G:H8	36:BA:1718:G:H5'	1.62	0.64
36:BA:2580:U:C5	36:BA:2581:G:C6	2.84	0.64
36:BA:2790:A:H2	36:BA:2791:C:H2'	1.61	0.64
38:BC:43:VAL:HG21	38:BC:175:VAL:HG21	1.78	0.64
42:BG:4:ASP:HA	42:BG:8:LYS:HG2	1.78	0.64
42:BG:27:ASN:ND2	42:BG:29:TRP:HB2	2.12	0.64
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.62	0.64
49:BQ:51:ARG:O	49:BQ:55:VAL:HG12	1.96	0.64
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.79	0.64
1:CA:826:C:H2'	1:CA:827:U:H6	1.61	0.64
3:CC:91:LEU:CD1	3:CC:101:LEU:HD12	2.25	0.64
6:CF:87:ARG:NH1	6:CF:87:ARG:HG2	2.09	0.64
13:CM:21:TYR:C	13:CM:22:ILE:HD12	2.21	0.64
30:D4:10:VAL:HG23	30:D4:11:PRO:CD	2.27	0.64
36:DA:1549:C:C2'	36:DA:1550:C:H5'	2.27	0.64
36:DA:1718:G:H8	36:DA:1718:G:H5'	1.62	0.64
36:DA:1963:U:H4'	36:DA:1964:G:OP1	1.96	0.64
36:DA:2317:C:C2'	36:DA:2318:G:H5'	2.27	0.64
38:DC:76:ALA:HB3	38:DC:94:VAL:HG13	1.79	0.64
39:DD:69:ARG:NH2	39:DD:192:THR:HB	2.12	0.64
39:DD:273:ARG:HH11	39:DD:273:ARG:HG2	1.61	0.64
40:DE:196:VAL:HG23	40:DE:196:VAL:O	1.97	0.64
51:DS:77:ALA:HA	51:DS:80:LEU:HD12	1.78	0.64
1:AA:200:G:H1	1:AA:217:C:H42	1.44	0.64
1:AA:426:G:H2'	1:AA:427:U:C6	2.31	0.64
1:AA:859:A:H2'	1:AA:860:A:O4'	1.96	0.64
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.27	0.64
1:AA:1074:G:O4'	2:AB:104:ASN:ND2	2.31	0.64
5:AE:45:PHE:CD2	5:AE:47:LYS:HD2	2.32	0.64
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.29	0.64
23:AX:22:A:H61	24:AY:36:U:H3	1.45	0.64
25:AZ:354:GLN:HE21	25:AZ:371:THR:HB	1.62	0.64
36:BA:92:A:O2'	36:BA:93:G:H5'	1.97	0.64
36:BA:271(B):C:H42	36:BA:271(W):G:N2	1.94	0.64
36:BA:272(D):G:H2'	36:BA:272(E):G:C8	2.33	0.64
36:BA:628:G:C2'	36:BA:629:G:H5''	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:673:C:H6	36:BA:673:C:H5'	1.62	0.64
36:BA:1018:C:H2'	36:BA:1019:U:C6	2.32	0.64
36:BA:2131:G:H4'	36:BA:2132:U:OP2	1.95	0.64
36:BA:2173:A:N3	36:BA:2173:A:H3'	2.11	0.64
36:BA:2814:C:H2'	36:BA:2815:C:C6	2.30	0.64
41:BF:110:LEU:HD13	41:BF:111:ALA:N	2.12	0.64
41:BF:122:LYS:H	41:BF:122:LYS:HE3	1.63	0.64
42:BG:111:LEU:O	42:BG:114:ILE:HG22	1.98	0.64
48:BP:122:PRO:HB3	48:BP:141:ALA:HB1	1.79	0.64
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.17	0.64
58:BZ:17:ALA:HA	58:BZ:20:ARG:HG2	1.79	0.64
1:CA:542:G:OP1	4:CD:10:ARG:NH2	2.30	0.64
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.11	0.64
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.27	0.64
1:CA:1470:G:H8	1:CA:1470:G:O5'	1.81	0.64
5:CE:99:GLY:HA2	5:CE:116:THR:O	1.97	0.64
7:CG:125:MET:O	7:CG:128:ALA:HB3	1.97	0.64
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.62	0.64
13:CM:34:LEU:HD22	13:CM:39:ILE:O	1.97	0.64
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.07	0.64
18:CR:44:LEU:HD23	18:CR:48:GLY:O	1.97	0.64
19:CS:43:GLU:C	19:CS:45:VAL:N	2.54	0.64
27:D1:90:ILE:O	27:D1:94:LEU:CD1	2.45	0.64
28:D2:67:LYS:C	28:D2:69:ARG:H	2.04	0.64
30:D4:9:LEU:HD13	30:D4:10:VAL:H	1.62	0.64
36:DA:729:G:C5	39:DD:208:LYS:HB2	2.32	0.64
36:DA:1012:U:C5	46:DN:28:THR:HG21	2.32	0.64
36:DA:1341:U:H4'	56:DX:57:LEU:HB3	1.80	0.64
36:DA:1565:C:H2'	39:DD:21:PHE:CE1	2.33	0.64
36:DA:1568:G:H4'	39:DD:59:LYS:HG2	1.79	0.64
36:DA:1859:A:N6	36:DA:1883:G:O2'	2.30	0.64
36:DA:2230:G:H2'	36:DA:2231:C:H6	1.61	0.64
36:DA:2814:C:H2'	36:DA:2815:C:C6	2.30	0.64
41:DF:84:VAL:O	41:DF:86:GLY:N	2.30	0.64
46:DN:48:MET:HE3	46:DN:48:MET:N	2.12	0.64
48:DP:63:PRO:O	48:DP:64:LYS:C	2.40	0.64
1:AA:741:G:O2'	1:AA:742:G:H5'	1.97	0.64
1:AA:925:G:H8	1:AA:925:G:O5'	1.79	0.64
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.12	0.64
1:AA:1525:G:H2'	1:AA:1526:G:C8	2.32	0.64
14:AN:48:ALA:CA	14:AN:53:LEU:HD12	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:12:LYS:HG3	21:AU:17:THR:O	1.97	0.64
32:B6:7:ILE:O	32:B6:27:LYS:HD2	1.97	0.64
32:B6:22:ALA:HB2	32:B6:39:TYR:CE2	2.32	0.64
36:BA:142:A:H5''	36:BA:142(A):C:H5	1.61	0.64
36:BA:266:G:C2'	36:BA:267:C:H5''	2.23	0.64
36:BA:657:U:H2'	36:BA:658:C:C6	2.32	0.64
36:BA:1817:G:C2'	36:BA:1818:U:H5'	2.28	0.64
36:BA:2134:A:N6	36:BA:2157:G:H1'	2.11	0.64
37:BB:94:C:O2'	37:BB:95:C:H5'	1.98	0.64
38:BC:134:ARG:O	38:BC:136:LEU:N	2.30	0.64
38:BC:152:ILE:O	38:BC:155:GLU:HG3	1.98	0.64
39:BD:252:TRP:H	39:BD:252:TRP:CD1	2.13	0.64
40:BE:47:VAL:CG2	40:BE:85:ASN:HA	2.26	0.64
43:BH:68:THR:HA	43:BH:71:LEU:HB2	1.79	0.64
48:BP:102:ARG:HB2	48:BP:102:ARG:HH21	1.61	0.64
48:BP:126:VAL:HG13	48:BP:145:PRO:HB2	1.79	0.64
1:CA:375:U:OP1	16:CP:69:THR:HG21	1.97	0.64
1:CA:522:C:H2'	1:CA:523:A:H8	1.63	0.64
1:CA:1298:C:C4	7:CG:114:ARG:HD2	2.33	0.64
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.62	0.64
21:CU:12:LYS:HG3	21:CU:17:THR:O	1.97	0.64
25:CZ:356:PRO:HD2	25:CZ:359:VAL:HG21	1.77	0.64
33:D7:11:LYS:HE2	36:DA:686:G:N3	2.12	0.64
36:DA:593:G:O2'	36:DA:594:U:H5'	1.96	0.64
36:DA:956:G:N2	36:DA:959:A:H3'	2.11	0.64
36:DA:1341:U:O2'	36:DA:1342:A:H5'	1.97	0.64
36:DA:1573:G:H2'	36:DA:1574:C:H5'	1.79	0.64
36:DA:2444:G:P	41:DF:68:LYS:HE3	2.38	0.64
37:DB:117:G:H5'	51:DS:55:ALA:HB1	1.77	0.64
46:DN:57:ALA:HB2	46:DN:123:TYR:O	1.97	0.64
1:AA:436:C:H2'	1:AA:437:U:H6	1.63	0.64
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.11	0.64
1:AA:689:C:P	11:AK:46:GLY:HA3	2.36	0.64
1:AA:956:U:O2'	1:AA:957:U:H5'	1.97	0.64
1:AA:1352:C:N4	1:AA:1370:G:H1	1.94	0.64
1:AA:1363(A):A:H4'	1:AA:1364:U:OP1	1.96	0.64
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.63	0.64
2:AB:229:VAL:CG1	2:AB:230:VAL:H	2.09	0.64
4:AD:121:VAL:HG12	4:AD:134:ASP:C	2.22	0.64
10:AJ:91:PRO:CB	10:AJ:94:VAL:HB	2.26	0.64
25:AZ:32:THR:O	25:AZ:33:TYR:C	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:310:ILE:HD11	25:AZ:381:GLU:HB3	1.80	0.64
35:B9:12:ASP:C	35:B9:14:CYS:H	2.04	0.64
36:BA:30:G:H2'	36:BA:31:C:C6	2.33	0.64
36:BA:473:G:H5''	36:BA:508:G:N2	2.13	0.64
36:BA:1023:U:O2'	36:BA:1122:G:H5''	1.97	0.64
36:BA:2290:G:N2	36:BA:2343:C:H1'	2.12	0.64
36:BA:2821:A:H61	50:BR:4:LEU:HD23	1.62	0.64
36:BA:2854:G:H2'	36:BA:2855:C:H6	1.63	0.64
43:BH:19:VAL:HG12	43:BH:20:ALA:N	2.12	0.64
46:BN:111:PRO:HG3	46:BN:114:ARG:NH2	2.13	0.64
57:BY:46:LYS:HB2	57:BY:62:GLU:CD	2.22	0.64
1:CA:1148:U:H4'	9:CI:14:VAL:HG11	1.79	0.64
4:CD:70:ILE:HG23	4:CD:74:GLN:HB2	1.79	0.64
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.12	0.64
8:CH:14:ARG:HB2	8:CH:14:ARG:NH1	2.12	0.64
8:CH:63:LEU:H	8:CH:63:LEU:HD22	1.63	0.64
9:CI:6:GLY:HA3	9:CI:84:ALA:HB2	1.79	0.64
10:CJ:17:ASP:CG	10:CJ:70:ARG:HH21	2.05	0.64
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.27	0.64
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.61	0.64
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.12	0.64
25:CZ:299:GLU:O	25:CZ:300:ARG:O	2.15	0.64
31:D5:39:MET:O	55:DW:38:TYR:HE2	1.81	0.64
36:DA:18:C:O2'	36:DA:554:U:H5''	1.98	0.64
36:DA:57:C:O2'	36:DA:58:G:H5'	1.96	0.64
36:DA:142:A:H5''	36:DA:142(A):C:H5	1.63	0.64
36:DA:2175:C:H5''	38:DC:220:PRO:HA	1.79	0.64
36:DA:2579:C:O2'	40:DE:131:ALA:CB	2.46	0.64
36:DA:2761:G:H1'	43:DH:143:GLN:OE1	1.97	0.64
37:DB:110:G:O2'	37:DB:111:G:H5'	1.96	0.64
45:DK:86:UNK:O	45:DK:87:UNK:CB	2.46	0.64
46:DN:35:ARG:HH21	46:DN:42:TRP:HH2	1.46	0.64
48:DP:10:PRO:O	48:DP:11:GLY:O	2.16	0.64
50:DR:57:ARG:O	50:DR:59:ASP:N	2.30	0.64
52:DT:77:PRO:O	52:DT:78:LEU:HB2	1.95	0.64
53:DU:92:ARG:HH22	54:DV:10:LYS:CB	2.10	0.64
1:AA:16:A:O2'	1:AA:17:U:H5'	1.98	0.64
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.27	0.64
2:AB:96:ARG:O	2:AB:97:TRP:C	2.40	0.64
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.63	0.64
3:AC:181:ASN:HD21	3:AC:204:LEU:HB2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:45:ALA:O	9:AI:47:LEU:N	2.29	0.64
9:AI:99:LEU:C	9:AI:101:PHE:H	2.03	0.64
36:BA:83:G:N2	36:BA:102:G:H2'	2.12	0.64
36:BA:252:G:H2'	36:BA:253:C:C6	2.32	0.64
36:BA:1416:G:H1'	36:BA:1417:C:C5	2.32	0.64
36:BA:2785:C:H2'	36:BA:2786:U:C6	2.31	0.64
42:BG:137:GLU:O	42:BG:154:GLY:HA2	1.98	0.64
48:BP:7:ARG:HB3	48:BP:8:PRO:CD	2.28	0.64
50:BR:45:ARG:O	50:BR:46:GLY:C	2.41	0.64
56:BX:49:VAL:HB	56:BX:87:GLN:NE2	2.13	0.64
1:CA:38:G:H22	1:CA:397:A:H5''	1.63	0.64
1:CA:359:U:H2'	1:CA:360:A:H8	1.62	0.64
1:CA:924:C:H5'	1:CA:1399:C:OP2	1.98	0.64
1:CA:1060:C:H5''	10:CJ:51:ARG:HB3	1.78	0.64
4:CD:85:LYS:HD3	4:CD:92:VAL:HG13	1.78	0.64
9:CI:45:ALA:O	9:CI:47:LEU:N	2.28	0.64
9:CI:108:VAL:HG12	9:CI:109:VAL:H	1.62	0.64
10:CJ:54:PHE:CA	10:CJ:55:LYS:HE3	2.28	0.64
10:CJ:65:LEU:HD13	14:CN:56:VAL:H	1.63	0.64
13:CM:68:GLY:O	13:CM:72:ALA:HB3	1.97	0.64
14:CN:48:ALA:N	14:CN:53:LEU:HD12	2.12	0.64
14:CN:60:SER:O	14:CN:61:TRP:HB3	1.98	0.64
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	1.98	0.64
18:CR:69:THR:O	18:CR:70:ILE:C	2.41	0.64
20:CT:81:LYS:C	20:CT:83:ARG:H	2.06	0.64
22:CW:17:C:H42	36:DA:2180:U:H3	1.45	0.64
25:CZ:356:PRO:O	25:CZ:357:PRO:C	2.40	0.64
31:D5:3:LYS:HD3	36:DA:747:U:OP1	1.97	0.64
36:DA:536:A:H2	36:DA:557:U:H3	1.44	0.64
36:DA:619:G:H3'	36:DA:620:G:N2	2.11	0.64
36:DA:666:G:H2'	36:DA:667:U:C6	2.32	0.64
36:DA:1042:G:C2	36:DA:1043:C:H1'	2.32	0.64
36:DA:1122:G:O2'	36:DA:1123:C:H5'	1.96	0.64
36:DA:1536:C:H2'	36:DA:1537:G:H4'	1.78	0.64
36:DA:1855:G:H2'	36:DA:1856:G:C8	2.32	0.64
36:DA:2023:G:H4'	36:DA:2617:C:O3'	1.97	0.64
36:DA:2772:C:H5'	40:DE:168:MET:CE	2.28	0.64
37:DB:20:C:H2'	37:DB:21:G:C5'	2.26	0.64
39:DD:76:PRO:HG2	39:DD:98:VAL:CG2	2.28	0.64
40:DE:199:ARG:CG	40:DE:200:GLU:H	2.04	0.64
41:DF:177:ALA:HB1	41:DF:178:PRO:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:27:ASN:ND2	42:DG:29:TRP:HB2	2.12	0.64
43:DH:105:LEU:H	43:DH:105:LEU:HD23	1.61	0.64
46:DN:62:VAL:CG2	46:DN:66:LYS:HD2	2.27	0.64
48:DP:7:ARG:HB3	48:DP:8:PRO:CD	2.27	0.64
50:DR:62:ALA:O	50:DR:66:VAL:HG23	1.97	0.64
53:DU:20:LEU:H	53:DU:20:LEU:HD22	1.60	0.64
56:DX:14:SER:OG	56:DX:17:ALA:HB2	1.98	0.64
58:DZ:151:HIS:HA	58:DZ:171:ILE:CD1	2.28	0.64
1:AA:650:G:O2'	1:AA:651:C:H5'	1.97	0.64
1:AA:693:G:O2'	1:AA:694:A:H5'	1.98	0.64
1:AA:824:C:H2'	1:AA:825:G:C8	2.31	0.64
5:AE:135:THR:O	5:AE:138:ALA:HB3	1.96	0.64
6:AF:84:ASN:HD22	6:AF:84:ASN:H	1.44	0.64
8:AH:101:PRO:C	8:AH:102:ARG:HD3	2.23	0.64
10:AJ:47:PHE:HB2	10:AJ:63:PHE:O	1.98	0.64
25:AZ:230:THR:O	25:AZ:231:ILE:HD13	1.98	0.64
25:AZ:389:ARG:NH2	25:AZ:393:ARG:N	2.46	0.64
28:B2:64:LEU:O	28:B2:68:ARG:HB2	1.97	0.64
34:B8:26:LYS:NZ	36:BA:2361:A:OP2	2.30	0.64
36:BA:1390:U:H3	36:BA:1395:A:H62	1.44	0.64
36:BA:1640:C:O2'	36:BA:1641:A:H5'	1.97	0.64
36:BA:2114:A:H2'	36:BA:2115:G:H5'	1.77	0.64
36:BA:2331:G:N2	36:BA:2385:C:C4	2.66	0.64
36:BA:2689:U:H4'	36:BA:2690:C:C6	2.33	0.64
36:BA:2715:C:H2'	36:BA:2716:U:H6	1.61	0.64
40:BE:30:PRO:HD3	40:BE:180:ASN:HD21	1.61	0.64
41:BF:81:PRO:O	41:BF:82:ILE:C	2.40	0.64
41:BF:137:LYS:HA	41:BF:140:LEU:HB2	1.80	0.64
43:BH:86:GLU:N	43:BH:86:GLU:OE2	2.31	0.64
46:BN:132:ALA:O	46:BN:133:GLN:HB2	1.96	0.64
1:CA:491:G:H2'	1:CA:492:G:H8	1.63	0.64
1:CA:650:G:O2'	1:CA:651:C:H5'	1.96	0.64
1:CA:1045:C:H2'	1:CA:1045:C:O2	1.98	0.64
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.63	0.64
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.27	0.64
1:CA:1407:C:O2'	36:DA:1912:A:N1	2.26	0.64
4:CD:81:GLU:OE1	4:CD:139:ARG:NH1	2.30	0.64
6:CF:48:LEU:HB2	6:CF:56:PRO:O	1.98	0.64
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.28	0.64
10:CJ:25:GLU:O	10:CJ:29:ARG:HB3	1.98	0.64
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:42:PRO:O	19:CS:44:MET:SD	2.55	0.64
20:CT:17:ARG:C	20:CT:19:SER:H	2.04	0.64
25:CZ:255:ILE:HD11	25:CZ:290:LEU:HD22	1.78	0.64
25:CZ:355:LEU:CB	25:CZ:359:VAL:CG2	2.69	0.64
36:DA:185:U:H4'	36:DA:218:A:H4'	1.77	0.64
36:DA:392:C:C2'	36:DA:393:C:H5'	2.28	0.64
36:DA:1028:A:N6	36:DA:1125:G:H2'	2.13	0.64
36:DA:1132:A:C2	46:DN:73:THR:HG21	2.33	0.64
36:DA:1141:U:H2'	46:DN:63:THR:HG22	1.77	0.64
36:DA:1603:A:H5'	36:DA:1603:A:C8	2.30	0.64
36:DA:2444:G:OP1	41:DF:68:LYS:HE3	1.97	0.64
47:DO:88:ASN:HD21	47:DO:92:GLU:HB3	1.62	0.64
57:DY:19:LYS:HB2	57:DY:20:TYR:CE1	2.31	0.64
58:DZ:31:ARG:HD2	58:DZ:94:GLU:OE2	1.98	0.64
58:DZ:79:ARG:O	58:DZ:81:ARG:N	2.30	0.64
1:AA:382:A:O2'	1:AA:383:A:H5'	1.97	0.64
1:AA:563:A:N7	1:AA:567:G:H1'	2.12	0.64
1:AA:757:U:H2'	1:AA:758:G:O4'	1.98	0.64
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	2.12	0.64
1:AA:1189:C:H5''	3:AC:5:ILE:CG2	2.15	0.64
1:AA:1472:U:C2'	1:AA:1473:A:H5'	2.28	0.64
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.23	0.64
2:AB:200:ILE:H	2:AB:200:ILE:CD1	1.99	0.64
3:AC:77:ILE:HA	3:AC:84:ILE:HG22	1.78	0.64
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.12	0.64
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.27	0.64
10:AJ:49:VAL:O	10:AJ:49:VAL:HG13	1.98	0.64
22:AV:41:C:O2	22:AV:41:C:C2'	2.44	0.64
27:B1:8:SER:CB	27:B1:10:LYS:HG3	2.28	0.64
27:B1:70:VAL:HA	27:B1:73:LEU:HD12	1.79	0.64
36:BA:359:A:H2'	36:BA:360:G:O4'	1.98	0.64
36:BA:370:G:H2'	36:BA:423:A:N7	2.13	0.64
36:BA:428:A:N3	36:BA:428:A:H2'	2.13	0.64
36:BA:1169:G:H1	36:BA:1180:C:H42	1.45	0.64
36:BA:1184:G:C2'	36:BA:1185:C:H5'	2.28	0.64
36:BA:1824:G:N3	39:BD:254:THR:OG1	2.31	0.64
36:BA:2152:G:O2'	36:BA:2153:G:H5'	1.98	0.64
36:BA:2485:G:O2'	36:BA:2486:G:H5'	1.98	0.64
36:BA:2721:A:H2'	36:BA:2722:G:C8	2.32	0.64
37:BB:24:G:O6	37:BB:56:G:H2'	1.97	0.64
40:BE:36:ARG:HH22	40:BE:88:GLY:HA2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:29:TRP:HA	42:BG:29:TRP:HE3	1.62	0.64
42:BG:174:GLU:HA	42:BG:180:PHE:HE1	1.62	0.64
46:BN:57:ALA:HB2	46:BN:123:TYR:O	1.97	0.64
52:BT:90:GLN:O	52:BT:92:GLY:N	2.31	0.64
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.28	0.64
56:BX:10:ALA:HB3	56:BX:29:TRP:HD1	1.63	0.64
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.79	0.64
1:CA:426:G:H4'	4:CD:41:GLY:O	1.98	0.64
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.62	0.64
1:CA:1401:G:O5'	1:CA:1401:G:C8	2.50	0.64
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.32	0.64
3:CC:50:ALA:O	3:CC:71:ALA:HB3	1.98	0.64
11:CK:110:ASP:HB3	18:CR:85:LEU:HD23	1.79	0.64
20:CT:33:ILE:HG12	20:CT:62:LEU:HD22	1.79	0.64
20:CT:38:LYS:O	20:CT:42:GLN:HB2	1.98	0.64
26:D0:49:LYS:O	26:D0:51:VAL:HG23	1.98	0.64
33:D7:15:THR:HG22	33:D7:16:HIS:CD2	2.32	0.64
34:D8:13:ARG:NH2	36:DA:250:G:OP2	2.30	0.64
36:DA:1177:A:H5'	36:DA:1178:C:C5	2.32	0.64
36:DA:1374:G:H2'	36:DA:1375:C:H6	1.62	0.64
36:DA:1416:G:H1'	36:DA:1417:C:C5	2.32	0.64
36:DA:1809:A:H2'	36:DA:1810:A:C8	2.32	0.64
36:DA:2790:A:H2	36:DA:2791:C:H2'	1.62	0.64
38:DC:134:ARG:O	38:DC:136:LEU:N	2.30	0.64
40:DE:9:VAL:O	40:DE:9:VAL:HG22	1.97	0.64
42:DG:41:GLN:HB3	42:DG:43:LEU:HD21	1.80	0.64
42:DG:97:ASP:N	42:DG:100:TRP:HD1	1.96	0.64
46:DN:23:LEU:HD12	46:DN:102:ALA:CB	2.27	0.64
46:DN:46:VAL:CG1	46:DN:48:MET:HG3	2.28	0.64
48:DP:39:LYS:CE	48:DP:42:SER:HB3	2.23	0.64
52:DT:19:LEU:HD13	52:DT:78:LEU:CD2	2.28	0.64
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.33	0.64
1:AA:1347:G:C8	9:AI:107:ARG:HB3	2.33	0.64
6:AF:78:GLU:HA	6:AF:81:ILE:HD11	1.79	0.64
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.12	0.64
8:AH:36:LEU:HD12	8:AH:59:LEU:HD13	1.78	0.64
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.79	0.64
12:AL:55:VAL:CG2	12:AL:67:THR:HG22	2.28	0.64
18:AR:67:ALA:O	18:AR:71:LYS:HG3	1.97	0.64
25:AZ:299:GLU:O	25:AZ:300:ARG:O	2.16	0.64
27:B1:45:ASN:HB2	36:BA:2230:G:H1'	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:68:ARG:NH2	28:B2:72:ALA:HB1	2.12	0.64
36:BA:287:C:H2'	36:BA:288:C:H6	1.63	0.64
36:BA:612:C:O2'	36:BA:613:G:H5''	1.97	0.64
36:BA:631:A:H1'	36:BA:2415:G:O2'	1.98	0.64
36:BA:1341:U:H4'	56:BX:57:LEU:HB3	1.79	0.64
36:BA:2110:G:H22	36:BA:2178:C:N4	1.92	0.64
39:BD:149:PRO:HG3	39:BD:186:HIS:CD2	2.32	0.64
46:BN:126:PRO:O	46:BN:127:ASP:HB2	1.97	0.64
48:BP:134:ALA:HB2	48:BP:137:LYS:HZ2	1.63	0.64
49:BQ:18:LYS:HB3	49:BQ:98:LYS:NZ	2.13	0.64
49:BQ:42:ILE:C	49:BQ:94:VAL:HG12	2.23	0.64
51:BS:11:LYS:N	51:BS:11:LYS:HD2	2.12	0.64
52:BT:113:LYS:C	52:BT:114:LEU:HD23	2.23	0.64
55:BW:62:HIS:O	55:BW:64:MET:HG3	1.98	0.64
56:BX:60:ARG:HA	56:BX:75:ASP:CG	2.23	0.64
58:BZ:117:LEU:HD11	58:BZ:172:ALA:HB1	1.80	0.64
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.27	0.64
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.32	0.64
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.28	0.64
4:CD:128:VAL:O	4:CD:129:ASN:C	2.41	0.64
13:CM:40:ASN:HD22	13:CM:43:THR:HG23	1.61	0.64
19:CS:44:MET:O	19:CS:47:HIS:HB2	1.98	0.64
23:CX:20:U:O2'	23:CX:21:C:H5'	1.98	0.64
36:DA:406:G:H2'	36:DA:407:G:C8	2.33	0.64
36:DA:496:G:H1'	55:DW:61:ASN:HD22	1.63	0.64
36:DA:572:A:H5'	54:DV:78:LYS:NZ	2.13	0.64
36:DA:1705:G:O2'	36:DA:1706:U:H5'	1.98	0.64
36:DA:1788:C:O2'	36:DA:1789:A:H5'	1.97	0.64
36:DA:1833:U:O2'	36:DA:1969:A:N1	2.28	0.64
36:DA:2071:A:H2'	36:DA:2072:G:H8	1.62	0.64
36:DA:2485:G:H5''	49:DQ:46:GLN:HE21	1.62	0.64
36:DA:2570:G:H2'	36:DA:2571:C:C6	2.33	0.64
36:DA:2821:A:OP2	40:DE:110:GLY:HA3	1.98	0.64
39:DD:65:ILE:N	39:DD:65:ILE:CD1	2.60	0.64
41:DF:70:THR:HG22	41:DF:72:ARG:HG2	1.80	0.64
41:DF:175:THR:O	41:DF:176:LEU:HD12	1.97	0.64
42:DG:58:GLN:O	42:DG:61:ALA:HB3	1.97	0.64
43:DH:83:TYR:HB3	43:DH:135:GLY:O	1.97	0.64
46:DN:32:THR:HB	46:DN:33:LEU:HD12	1.80	0.64
46:DN:46:VAL:HG13	46:DN:48:MET:HG3	1.80	0.64
46:DN:131:GLN:HE22	46:DN:133:GLN:HA	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:101:VAL:C	48:DP:103:ALA:H	2.05	0.64
49:DQ:3:MET:HB2	49:DQ:4:PRO:HD2	1.80	0.64
53:DU:90:VAL:O	53:DU:92:ARG:N	2.30	0.64
1:AA:807:A:H2'	1:AA:808:C:C6	2.31	0.64
1:AA:1228:C:H4'	13:AM:116:THR:O	1.98	0.64
1:AA:1385:G:O2'	1:AA:1386:G:H5'	1.98	0.64
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.63	0.64
5:AE:99:GLY:HA2	5:AE:116:THR:O	1.98	0.64
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.97	0.64
13:AM:89:GLY:C	13:AM:90:LEU:O	2.40	0.64
17:AQ:34:LYS:HG2	17:AQ:35:VAL:N	2.12	0.64
25:AZ:26:THR:HG21	62:AZ:501:GDP:C8	2.33	0.64
25:AZ:138:VAL:HG11	25:AZ:172:ARG:HB3	1.79	0.64
29:B3:56:VAL:HG12	29:B3:57:GLU:N	2.12	0.64
36:BA:435:C:O2'	36:BA:436:C:H5'	1.98	0.64
36:BA:856:C:H2'	36:BA:857:C:C6	2.33	0.64
36:BA:916:G:O2'	36:BA:917:A:H5''	1.98	0.64
36:BA:1132:A:H2'	36:BA:1133:U:H6	1.63	0.64
36:BA:1223:G:N2	36:BA:1225:G:H3'	2.13	0.64
36:BA:2073:C:H4'	39:BD:228:PRO:HB2	1.80	0.64
36:BA:2137:C:N4	36:BA:2154:G:H22	1.96	0.64
36:BA:2179:C:H4'	36:BA:2180:U:O5'	1.96	0.64
36:BA:2189:U:H2'	36:BA:2190:G:H4'	1.79	0.64
36:BA:2291:U:H3	36:BA:2341:G:H1	1.45	0.64
36:BA:2469:A:H1'	36:BA:2482:G:C5	2.32	0.64
37:BB:60:C:H2'	37:BB:61:G:H8	1.63	0.64
39:BD:26:LYS:O	39:BD:27:THR:HB	1.97	0.64
43:BH:67:LEU:C	43:BH:71:LEU:HG	2.23	0.64
46:BN:75:TYR:HA	46:BN:82:LEU:HA	1.80	0.64
51:BS:56:LEU:C	51:BS:58:LEU:H	2.06	0.64
53:BU:9:VAL:O	53:BU:13:LYS:HE2	1.98	0.64
58:BZ:28:MET:O	58:BZ:29:TYR:HB3	1.98	0.64
58:BZ:151:HIS:HA	58:BZ:171:ILE:CD1	2.28	0.64
1:CA:319:G:O2'	1:CA:320:C:H5'	1.96	0.64
1:CA:918:A:H2'	1:CA:919:A:H8	1.62	0.64
1:CA:1157:A:H4'	1:CA:1158:C:O5'	1.98	0.64
9:CI:48:GLU:HB3	9:CI:101:PHE:HE2	1.62	0.64
25:CZ:145:GLU:O	25:CZ:148:ASP:N	2.31	0.64
27:D1:82:LEU:O	27:D1:83:GLU:HG3	1.98	0.64
32:D6:16:CYS:SG	32:D6:48:VAL:CG2	2.85	0.64
34:D8:49:VAL:CG1	34:D8:53:PRO:HD3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:514:A:H2'	36:DA:515:A:C8	2.33	0.64
36:DA:614(A):U:H4'	36:DA:614(B):G:OP1	1.98	0.64
36:DA:1405:U:H2'	36:DA:1406:U:C6	2.33	0.64
36:DA:1409:C:H2'	36:DA:1410:G:H8	1.63	0.64
36:DA:1826:G:H4'	39:DD:242:ARG:HH21	1.62	0.64
36:DA:2114:A:H2'	36:DA:2115:G:H5'	1.78	0.64
36:DA:2854:G:H2'	36:DA:2855:C:H6	1.63	0.64
39:DD:112:GLN:HB2	39:DD:115:GLN:HE21	1.61	0.64
41:DF:162:LEU:HD12	41:DF:162:LEU:H	1.61	0.64
41:DF:171:PRO:C	41:DF:173:VAL:H	2.05	0.64
50:DR:73:VAL:HG12	50:DR:77:ARG:NH1	2.12	0.64
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.27	0.64
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.98	0.64
7:AG:100:ALA:O	7:AG:101:LEU:C	2.41	0.64
10:AJ:17:ASP:CG	10:AJ:70:ARG:HH21	2.05	0.64
10:AJ:27:ALA:O	10:AJ:31:GLY:N	2.30	0.64
12:AL:89:ARG:HH11	12:AL:91:LYS:HA	1.63	0.64
19:AS:45:VAL:HG12	19:AS:63:THR:O	1.97	0.64
22:AW:7:A:H4'	22:AW:8:U:OP1	1.97	0.64
24:AY:28:A:H2'	24:AY:29:C:H6	1.63	0.64
26:B0:19:LYS:HB3	26:B0:21:LEU:HD21	1.79	0.64
26:B0:55:ARG:C	26:B0:57:PHE:H	2.04	0.64
36:BA:271(Z):C:O2	36:BA:272(C):G:H1'	1.98	0.64
36:BA:391:G:C2'	36:BA:392:C:H5'	2.29	0.64
36:BA:821:A:H5''	36:BA:822:U:H6	1.63	0.64
36:BA:1186:G:H2'	36:BA:1187:G:O4'	1.98	0.64
36:BA:1549:C:C2'	36:BA:1550:C:H5'	2.28	0.64
36:BA:2761:G:H1'	43:BH:143:GLN:OE1	1.98	0.64
40:BE:23:VAL:HA	40:BE:184:VAL:O	1.98	0.64
42:BG:55:LYS:O	42:BG:58:GLN:HG3	1.97	0.64
43:BH:156:ALA:C	43:BH:158:HIS:N	2.50	0.64
46:BN:6:PRO:O	46:BN:9:VAL:HG23	1.98	0.64
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.63	0.64
54:BV:36:PRO:HA	54:BV:56:SER:CB	2.27	0.64
58:BZ:133:ILE:N	58:BZ:134:PRO:CD	2.61	0.64
58:BZ:163:LEU:HD11	58:BZ:165:VAL:HG23	1.80	0.64
1:CA:447:G:H2'	1:CA:485:G:H22	1.61	0.64
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.62	0.64
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.33	0.64
1:CA:1352:C:N4	1:CA:1370:G:H1	1.96	0.64
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:150:ARG:HH11	5:CE:150:ARG:HB2	1.61	0.64
6:CF:15:ASP:OD2	6:CF:17:SER:HB2	1.98	0.64
7:CG:58:PRO:HG2	7:CG:59:LEU:H	1.61	0.64
12:CL:98:TYR:N	12:CL:98:TYR:CD1	2.66	0.64
25:CZ:182:MET:SD	25:CZ:188:THR:HB	2.38	0.64
26:D0:70:GLN:NE2	26:D0:80:HIS:HE2	1.95	0.64
27:D1:84:GLY:C	27:D1:86:SER:H	2.04	0.64
28:D2:38:GLN:O	28:D2:43:GLN:O	2.15	0.64
29:D3:56:VAL:HG12	29:D3:57:GLU:N	2.12	0.64
36:DA:130:C:O3'	36:DA:1349:A:H1'	1.97	0.64
36:DA:442:G:H21	41:DF:48:THR:HB	1.63	0.64
36:DA:1326:U:H2'	36:DA:1327:C:C6	2.33	0.64
36:DA:1341:U:O2	36:DA:1398:C:H5'	1.97	0.64
36:DA:2183:C:O2'	36:DA:2184:G:H5'	1.96	0.64
36:DA:2620:C:H1'	40:DE:156:MET:HB2	1.80	0.64
39:DD:35:LYS:HZ2	39:DD:36:PRO:HD3	1.61	0.64
40:DE:23:VAL:HG12	40:DE:173:VAL:HG21	1.80	0.64
40:DE:169:ASN:C	40:DE:169:ASN:HD22	2.05	0.64
41:DF:137:LYS:HA	41:DF:140:LEU:HB2	1.79	0.64
43:DH:67:LEU:C	43:DH:71:LEU:HG	2.22	0.64
43:DH:122:THR:O	43:DH:133:VAL:HG13	1.98	0.64
43:DH:136:ILE:HD12	43:DH:136:ILE:N	2.13	0.64
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.13	0.64
48:DP:92:GLU:HA	48:DP:123:LEU:HD13	1.81	0.64
49:DQ:59:ARG:HD2	49:DQ:59:ARG:C	2.23	0.64
50:DR:12:ARG:HB3	50:DR:16:HIS:CD2	2.33	0.64
52:DT:129:ARG:O	52:DT:129:ARG:HG3	1.98	0.64
58:DZ:27:VAL:HG23	58:DZ:35:ARG:O	1.97	0.64
1:AA:405:U:O2	1:AA:498:U:H2'	1.98	0.63
1:AA:454:C:H5''	1:AA:455:C:C5	2.34	0.63
1:AA:675:A:H2'	1:AA:676:A:H8	1.60	0.63
1:AA:863:U:C2'	1:AA:864:A:H5''	2.28	0.63
1:AA:892:A:H2'	1:AA:893:C:H6	1.63	0.63
1:AA:918:A:H2'	1:AA:919:A:C8	2.33	0.63
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.63	0.63
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.98	0.63
13:AM:3:ARG:HB2	30:B4:34:GLU:HG2	1.79	0.63
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.62	0.63
28:B2:68:ARG:HH22	28:B2:72:ALA:HB1	1.63	0.63
32:B6:35:GLU:HG2	32:B6:51:GLU:HG3	1.80	0.63
33:B7:26:GLY:O	33:B7:30:VAL:HG23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:639:U:H2'	36:BA:640:C:C6	2.33	0.63
36:BA:1789:A:OP1	39:BD:222:ARG:HG3	1.98	0.63
40:BE:202:LYS:HD2	40:BE:202:LYS:N	2.12	0.63
41:BF:175:THR:O	41:BF:176:LEU:HD12	1.98	0.63
42:BG:47:LYS:O	42:BG:51:ARG:HB2	1.98	0.63
47:BO:2:ILE:CD1	47:BO:82:ASN:ND2	2.55	0.63
47:BO:64:ARG:NE	52:BT:70:VAL:HG21	2.12	0.63
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB2	1.79	0.63
53:BU:9:VAL:HG23	53:BU:10:ARG:H	1.63	0.63
53:BU:92:ARG:HH22	54:BV:10:LYS:CB	2.12	0.63
56:BX:20:GLY:O	56:BX:25:LYS:HB2	1.98	0.63
1:CA:401:C:H2'	1:CA:402:G:C8	2.33	0.63
1:CA:585:G:H1	1:CA:756:C:H42	1.45	0.63
13:CM:15:VAL:HG23	13:CM:16:ASP:N	2.13	0.63
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	1.98	0.63
25:CZ:136:ASN:C	25:CZ:138:VAL:H	2.06	0.63
27:D1:18:ILE:HG22	27:D1:19:GLN:H	1.63	0.63
30:D4:31:ILE:CG2	30:D4:33:VAL:HG23	2.28	0.63
34:D8:7:HIS:C	34:D8:9:GLY:H	2.06	0.63
36:DA:216:A:O2'	36:DA:217:G:H5'	1.98	0.63
36:DA:489:G:H1'	36:DA:1284:A:C5	2.33	0.63
36:DA:549:G:O2'	36:DA:551:G:H5'	1.98	0.63
36:DA:582:G:H1	36:DA:1258:C:N4	1.95	0.63
36:DA:856:C:H2'	36:DA:857:C:C6	2.34	0.63
36:DA:1754:C:H5''	52:DT:113:LYS:NZ	2.13	0.63
36:DA:1999:C:H2'	36:DA:2000:G:C8	2.33	0.63
36:DA:2026:C:H42	36:DA:2037:G:H1	1.47	0.63
36:DA:2715:C:H2'	36:DA:2716:U:C6	2.33	0.63
40:DE:179:GLU:O	40:DE:180:ASN:HB2	1.97	0.63
43:DH:107:VAL:HG23	43:DH:152:ARG:HD3	1.79	0.63
46:DN:42:TRP:CZ2	46:DN:44:PRO:HA	2.33	0.63
46:DN:132:ALA:O	46:DN:133:GLN:HB2	1.97	0.63
52:DT:111:ARG:HG2	52:DT:111:ARG:HH11	1.63	0.63
54:DV:29:PRO:HA	54:DV:61:VAL:HG23	1.79	0.63
58:DZ:96:VAL:HG22	58:DZ:97:GLU:N	2.12	0.63
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.63	0.63
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.33	0.63
1:AA:1396:A:C2	5:AE:19:MET:HG3	2.32	0.63
1:AA:1422:G:C2	1:AA:1423:G:C5	2.86	0.63
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.24	0.63
2:AB:130:ARG:CZ	2:AB:134:GLU:HG3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:113:ALA:HB1	3:AC:200:ALA:CB	2.27	0.63
3:AC:122:GLU:O	3:AC:125:GLU:N	2.31	0.63
9:AI:57:GLY:O	9:AI:58:HIS:HB2	1.96	0.63
13:AM:55:ARG:HA	13:AM:58:GLU:HG3	1.79	0.63
36:BA:90:U:O2'	36:BA:92:A:H5''	1.98	0.63
36:BA:242:G:N2	36:BA:254:G:H2'	2.13	0.63
36:BA:786:C:O2'	36:BA:787:U:H5'	1.98	0.63
36:BA:988:A:H8	36:BA:988:A:O5'	1.81	0.63
36:BA:1541:G:H1'	36:BA:1542:A:N9	2.12	0.63
36:BA:2310:A:O2'	36:BA:2311:A:H5''	1.97	0.63
36:BA:2454:G:O2'	36:BA:2455:G:H5'	1.98	0.63
36:BA:2850:A:H2	50:BR:61:HIS:CD2	2.15	0.63
38:BC:58:VAL:HG22	38:BC:201:PRO:CD	2.28	0.63
39:BD:210:GLY:HA2	39:BD:213:ARG:HB2	1.79	0.63
40:BE:120:TRP:HB3	40:BE:155:LYS:HE3	1.80	0.63
53:BU:16:LYS:C	53:BU:17:ILE:HD12	2.23	0.63
1:CA:54:C:H2'	1:CA:352:C:N4	2.13	0.63
1:CA:361:G:H2'	1:CA:362:G:O4'	1.99	0.63
1:CA:495:A:H61	4:CD:119:GLN:HE22	1.46	0.63
1:CA:640:A:N3	8:CH:115:SER:HB3	2.14	0.63
1:CA:1206:G:O2'	1:CA:1207:G:H5'	1.98	0.63
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.63	0.63
19:CS:51:VAL:HG12	19:CS:52:TYR:N	2.12	0.63
22:CV:50:U:H2'	22:CV:51:U:O4'	1.97	0.63
30:D4:9:LEU:C	30:D4:10:VAL:HG12	2.22	0.63
36:DA:572:A:N6	36:DA:2029:G:H21	1.96	0.63
36:DA:1169:G:H1	36:DA:1180:C:H42	1.46	0.63
36:DA:1775:U:C2'	36:DA:1776:G:H5'	2.28	0.63
36:DA:2361:A:H2'	36:DA:2362:G:H8	1.62	0.63
36:DA:2675:A:H5'	47:DO:31:LYS:NZ	2.13	0.63
41:DF:171:PRO:O	41:DF:173:VAL:N	2.30	0.63
41:DF:184:TYR:CE1	48:DP:7:ARG:NH2	2.66	0.63
42:DG:96:ARG:O	42:DG:97:ASP:C	2.39	0.63
42:DG:102:PHE:HA	42:DG:105:LYS:NZ	2.13	0.63
43:DH:67:LEU:HG	43:DH:71:LEU:CD1	2.26	0.63
50:DR:45:ARG:HG3	50:DR:46:GLY:N	2.10	0.63
52:DT:32:TYR:N	52:DT:32:TYR:CD2	2.66	0.63
54:DV:24:LYS:H	54:DV:91:TYR:HA	1.63	0.63
1:AA:501:C:O2'	1:AA:502:G:H5'	1.98	0.63
1:AA:1147:C:H2'	9:AI:16:ARG:HD3	1.80	0.63
5:AE:110:LEU:CD2	5:AE:115:VAL:HG21	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:51:ARG:HE	10:AJ:61:GLU:HB2	1.64	0.63
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.64	0.63
13:AM:2:ALA:C	13:AM:9:ILE:HG23	2.23	0.63
13:AM:15:VAL:HG23	13:AM:16:ASP:N	2.12	0.63
18:AR:53:ARG:O	18:AR:55:ARG:N	2.31	0.63
19:AS:43:GLU:C	19:AS:45:VAL:N	2.56	0.63
27:B1:43:TYR:HB2	36:BA:2230:G:O3'	1.99	0.63
34:B8:7:HIS:C	34:B8:9:GLY:H	2.07	0.63
35:B9:27:CYS:SG	35:B9:28:GLU:N	2.70	0.63
36:BA:729:G:H2'	36:BA:1775:U:O2	1.99	0.63
36:BA:761:A:C8	36:BA:761:A:O5'	2.52	0.63
36:BA:1902:C:O4'	39:BD:244:ARG:HG3	1.99	0.63
36:BA:2092:U:C4'	36:BA:2093:G:H5''	2.27	0.63
36:BA:2111:C:H42	36:BA:2145:C:H2'	1.62	0.63
36:BA:2360:A:O2'	36:BA:2361:A:O4'	2.16	0.63
36:BA:2777:G:C4'	36:BA:2778:A:H5'	2.29	0.63
42:BG:60:LEU:HD22	42:BG:63:ILE:CD1	2.28	0.63
46:BN:26:LEU:HG	46:BN:27:ALA:N	2.12	0.63
48:BP:9:ASN:H	48:BP:10:PRO:CD	2.04	0.63
48:BP:92:GLU:HA	48:BP:123:LEU:HD13	1.80	0.63
52:BT:28:VAL:CG2	52:BT:47:GLY:N	2.60	0.63
57:BY:14:LEU:HD12	57:BY:23:ARG:O	1.98	0.63
58:BZ:51:ALA:HB1	58:BZ:57:ILE:HD11	1.78	0.63
1:CA:250:A:H5''	1:CA:251:G:OP1	1.98	0.63
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.28	0.63
4:CD:165:MET:HE3	4:CD:176:LEU:HD21	1.80	0.63
5:CE:12:LEU:O	5:CE:13:ILE:HG13	1.97	0.63
6:CF:84:ASN:H	6:CF:84:ASN:ND2	1.96	0.63
9:CI:105:ASP:OD1	9:CI:107:ARG:HD3	1.97	0.63
10:CJ:28:ARG:C	10:CJ:30:SER:H	2.06	0.63
22:CW:7:A:H4'	22:CW:8:U:OP1	1.97	0.63
28:D2:35:LEU:HD13	28:D2:36:ARG:N	2.13	0.63
34:D8:7:HIS:O	34:D8:11:LYS:HB2	1.98	0.63
36:DA:298:G:N2	36:DA:339:U:C5	2.65	0.63
36:DA:612:C:H2'	36:DA:613:G:H5''	1.80	0.63
36:DA:1326:U:H2'	36:DA:1327:C:H6	1.64	0.63
36:DA:2248:C:C2'	36:DA:2249:U:H5'	2.29	0.63
39:DD:166:GLN:HB3	39:DD:174:ILE:HB	1.80	0.63
40:DE:47:VAL:CG2	40:DE:85:ASN:HA	2.29	0.63
50:DR:83:ILE:HA	50:DR:86:ARG:HD3	1.79	0.63
51:DS:69:VAL:O	51:DS:73:LEU:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DX:20:GLY:O	56:DX:25:LYS:HB2	1.97	0.63
1:AA:538:G:O2'	1:AA:539:A:H5'	1.98	0.63
4:AD:25:ARG:C	4:AD:27:TYR:H	2.05	0.63
5:AE:37:ARG:O	5:AE:38:GLN:HG2	1.98	0.63
5:AE:142:LEU:O	5:AE:143:ARG:HD3	1.99	0.63
6:AF:84:ASN:N	6:AF:84:ASN:ND2	2.45	0.63
7:AG:70:LYS:O	7:AG:138:LYS:HE3	1.99	0.63
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.63	0.63
10:AJ:25:GLU:O	10:AJ:29:ARG:HB3	1.99	0.63
10:AJ:47:PHE:O	10:AJ:62:HIS:HB2	1.98	0.63
20:AT:33:ILE:HG12	20:AT:62:LEU:HD22	1.78	0.63
23:AX:26:A:H2'	23:AX:26:A:N3	2.14	0.63
27:B1:13:ILE:HD11	36:BA:396:G:C5'	2.09	0.63
36:BA:337:C:H3'	36:BA:338:G:H5''	1.81	0.63
36:BA:1024:G:H3'	36:BA:1025:G:C5'	2.22	0.63
36:BA:1367:A:H2'	36:BA:1368:G:H5'	1.78	0.63
36:BA:2476:A:C2'	36:BA:2477:C:H5''	2.29	0.63
38:BC:100:ILE:HG23	38:BC:127:LEU:CG	2.29	0.63
39:BD:73:VAL:HG13	39:BD:120:GLY:HA2	1.80	0.63
40:BE:82:ARG:HG3	40:BE:82:ARG:NH1	2.14	0.63
41:BF:123:LEU:HD12	41:BF:124:LEU:H	1.60	0.63
46:BN:33:LEU:HD12	46:BN:33:LEU:N	2.13	0.63
1:CA:115:G:H1'	1:CA:116:A:N7	2.13	0.63
1:CA:1239:A:H4'	1:CA:1240:U:O5'	1.98	0.63
1:CA:1469:G:C2	1:CA:1470:G:C5	2.87	0.63
2:CB:80:ILE:HD12	2:CB:80:ILE:N	2.12	0.63
2:CB:134:GLU:HA	2:CB:137:ARG:HB2	1.81	0.63
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.13	0.63
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.61	0.63
9:CI:43:ALA:O	9:CI:45:ALA:N	2.31	0.63
25:CZ:310:ILE:CD1	25:CZ:381:GLU:HB3	2.29	0.63
28:D2:16:LEU:O	28:D2:17:SER:O	2.15	0.63
28:D2:45:SER:O	28:D2:46:GLN:HG2	1.98	0.63
30:D4:35:VAL:HG12	42:DG:112:PRO:HG3	1.79	0.63
36:DA:479:A:O2'	36:DA:481:G:H5'	1.97	0.63
36:DA:821:A:H5''	36:DA:822:U:C6	2.34	0.63
36:DA:1353:A:H2'	36:DA:1354:A:H8	1.59	0.63
36:DA:1541:G:H1'	36:DA:1542:A:N9	2.13	0.63
36:DA:2537:U:H2'	36:DA:2538:C:H6	1.63	0.63
36:DA:2721:A:H2'	36:DA:2722:G:C8	2.33	0.63
38:DC:152:ILE:O	38:DC:155:GLU:HG3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:95:LEU:HD12	39:DD:95:LEU:H	1.64	0.63
41:DF:154:VAL:HG13	41:DF:191:ARG:O	1.98	0.63
43:DH:153:LYS:HD3	43:DH:153:LYS:N	2.13	0.63
57:DY:84:ARG:NH2	57:DY:97:ARG:HB2	2.13	0.63
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HG12	1.80	0.63
1:AA:539:A:OP2	12:AL:115:LYS:HE3	1.97	0.63
1:AA:1486:G:H2'	1:AA:1487:G:O4'	1.97	0.63
5:AE:148:VAL:C	5:AE:150:ARG:H	2.06	0.63
13:AM:93:ARG:HG3	36:BA:888:C:P	2.38	0.63
25:AZ:310:ILE:CD1	25:AZ:381:GLU:HB3	2.29	0.63
29:B3:59:VAL:CG1	29:B3:60:GLU:N	2.60	0.63
36:BA:925:C:C3'	36:BA:926:A:H5''	2.28	0.63
36:BA:1132:A:C2	46:BN:73:THR:HG21	2.33	0.63
40:BE:97:LYS:O	40:BE:100:GLU:HG3	1.97	0.63
41:BF:154:VAL:HG11	41:BF:193:VAL:CG2	2.26	0.63
48:BP:45:LEU:HD22	48:BP:46:LYS:H	1.64	0.63
51:BS:99:LYS:O	51:BS:100:ALA:C	2.40	0.63
55:BW:12:ILE:CB	55:BW:42:ARG:HH12	2.12	0.63
58:BZ:51:ALA:HA	58:BZ:55:HIS:HD2	1.63	0.63
58:BZ:58:VAL:O	58:BZ:59:LEU:HD23	1.99	0.63
58:BZ:99:TYR:HA	58:BZ:124:ILE:O	1.98	0.63
58:BZ:105:VAL:O	58:BZ:141:VAL:HG23	1.98	0.63
1:CA:80:G:C2'	1:CA:81:U:H5'	2.29	0.63
1:CA:506:G:H2'	1:CA:507:C:C6	2.34	0.63
1:CA:971:G:H5''	1:CA:972:C:H5''	1.80	0.63
1:CA:1105:A:O2'	1:CA:1106:G:H5'	1.98	0.63
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.12	0.63
3:CC:64:VAL:CG1	3:CC:66:VAL:HG23	2.29	0.63
5:CE:76:ILE:HD11	5:CE:78:HIS:O	1.99	0.63
6:CF:2:ARG:CZ	6:CF:69:GLU:HG3	2.29	0.63
11:CK:87:THR:O	11:CK:91:ARG:HG3	1.99	0.63
24:CY:56:C:C1'	36:DA:1067:A:H1'	2.29	0.63
32:D6:53:LYS:CG	32:D6:54:ILE:N	2.62	0.63
36:DA:359:A:H2'	36:DA:360:G:O4'	1.99	0.63
36:DA:803:U:C2'	36:DA:804:A:H5'	2.29	0.63
36:DA:2096:U:O2'	36:DA:2097:C:H5'	1.99	0.63
36:DA:2454:G:O2'	36:DA:2455:G:H5'	1.98	0.63
36:DA:2455:G:O2'	36:DA:2456:C:H5'	1.99	0.63
39:DD:4:LYS:HZ1	39:DD:20:ASP:HA	1.64	0.63
39:DD:81:ALA:HA	39:DD:113:VAL:HG22	1.81	0.63
39:DD:130:ALA:HB2	39:DD:192:THR:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:78:LEU:O	40:DE:79:ARG:HD2	1.99	0.63
40:DE:116:VAL:O	40:DE:117:MET:HB2	1.99	0.63
41:DF:34:TRP:HB2	48:DP:10:PRO:HB2	1.81	0.63
41:DF:124:LEU:HD12	41:DF:125:LEU:H	1.63	0.63
41:DF:167:ALA:C	41:DF:173:VAL:HG11	2.23	0.63
42:DG:119:GLY:O	42:DG:181:ARG:HB2	1.98	0.63
49:DQ:67:ARG:HD2	49:DQ:105:GLU:OE1	1.98	0.63
50:DR:52:ILE:CD1	50:DR:79:LEU:HD21	2.28	0.63
52:DT:90:GLN:O	52:DT:92:GLY:N	2.32	0.63
54:DV:3:ALA:HB3	54:DV:14:VAL:HG23	1.79	0.63
55:DW:62:HIS:O	55:DW:64:MET:HG3	1.98	0.63
58:DZ:153:SER:CB	58:DZ:167:PRO:HB3	2.28	0.63
1:AA:592:G:H2'	1:AA:593:G:H8	1.64	0.63
1:AA:741:G:H2'	1:AA:742:G:C8	2.33	0.63
4:AD:78:LEU:O	4:AD:78:LEU:HD23	1.98	0.63
24:AY:13:C:O2'	24:AY:14:A:H5''	1.98	0.63
28:B2:22:GLU:HG2	28:B2:64:LEU:HD11	1.79	0.63
32:B6:16:CYS:SG	32:B6:48:VAL:CG2	2.87	0.63
36:BA:407:G:H2'	36:BA:408:G:C8	2.28	0.63
36:BA:489:G:H1'	36:BA:1284:A:C5	2.34	0.63
36:BA:749:C:O2	36:BA:1618:A:H2'	1.98	0.63
36:BA:953:A:H2'	36:BA:954:G:H8	1.62	0.63
36:BA:1215:G:H5''	53:BU:12:ARG:NH2	2.14	0.63
36:BA:1405:U:H2'	36:BA:1406:U:C6	2.33	0.63
36:BA:1416:G:HO2'	36:BA:1417:C:H5	1.47	0.63
36:BA:1551:C:H2'	36:BA:1552:G:H5'	1.80	0.63
36:BA:1859:A:N6	36:BA:1883:G:O2'	2.31	0.63
36:BA:2589:A:H2'	36:BA:2590:A:H8	1.63	0.63
36:BA:2802:G:H3'	36:BA:2803:C:C5'	2.27	0.63
41:BF:127:GLU:HB2	41:BF:196:LEU:HD12	1.79	0.63
43:BH:122:THR:O	43:BH:133:VAL:HG13	1.99	0.63
43:BH:153:LYS:HD3	43:BH:153:LYS:N	2.13	0.63
46:BN:61:ARG:HG3	46:BN:61:ARG:HH11	1.64	0.63
52:BT:52:ILE:HA	52:BT:61:PHE:HA	1.79	0.63
56:BX:65:ARG:HG2	56:BX:65:ARG:HH11	1.63	0.63
1:CA:254:G:O2'	1:CA:255:G:H5'	1.99	0.63
1:CA:449:C:H3'	1:CA:450:G:H8	1.64	0.63
1:CA:972:C:O3'	10:CJ:57:LYS:CG	2.47	0.63
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.64	0.63
1:CA:1494:G:H2'	1:CA:1495:U:C6	2.32	0.63
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:102:LEU:HB3	2:CB:180:LEU:HD12	1.80	0.63
5:CE:64:ARG:O	5:CE:66:MET:N	2.31	0.63
13:CM:116:THR:HG22	13:CM:118:ALA:H	1.64	0.63
17:CQ:13:ASP:C	17:CQ:15:MET:H	2.07	0.63
18:CR:75:ILE:C	18:CR:77:GLY:H	2.05	0.63
20:CT:50:GLU:HA	20:CT:100:ILE:HB	1.80	0.63
22:CW:24:G:H2'	22:CW:25:C:O4'	1.97	0.63
22:CW:55:U:H5	22:CW:58:A:OP2	1.81	0.63
22:CW:64:A:H2'	22:CW:65:G:C8	2.33	0.63
23:CX:23:C:H2'	23:CX:24:C:H6	1.61	0.63
25:CZ:181:GLN:HG2	25:CZ:193:ASN:CG	2.24	0.63
26:D0:77:ARG:NH2	36:DA:857:C:H5'	2.11	0.63
27:D1:53:VAL:C	27:D1:55:GLY:H	2.07	0.63
33:D7:38:GLY:O	36:DA:458:G:H3'	1.98	0.63
36:DA:252:G:H2'	36:DA:253:C:C6	2.33	0.63
36:DA:310:A:P	57:DY:18:GLY:HA2	2.38	0.63
36:DA:361:G:H2'	36:DA:362:U:H4'	1.80	0.63
36:DA:654(E):G:O2'	36:DA:654(F):C:H5'	1.99	0.63
36:DA:672:C:H2'	36:DA:673:C:C5'	2.29	0.63
36:DA:673:C:H6	36:DA:673:C:H5'	1.64	0.63
36:DA:761:A:O5'	36:DA:761:A:C8	2.52	0.63
36:DA:1024:G:H3'	36:DA:1025:G:C5'	2.24	0.63
36:DA:2008:C:O2'	36:DA:2009:G:H5'	1.98	0.63
36:DA:2199:A:H2'	36:DA:2199:A:N3	2.13	0.63
36:DA:2358:G:H21	36:DA:2359:C:H1'	1.63	0.63
42:DG:35:GLU:HG2	42:DG:36:LYS:HE3	1.81	0.63
43:DH:89:ILE:HG13	43:DH:89:ILE:O	1.97	0.63
43:DH:92:ILE:O	43:DH:94:TYR:N	2.31	0.63
46:DN:34:LEU:HD21	46:DN:120:LEU:HD23	1.80	0.63
48:DP:75:ILE:HD12	48:DP:75:ILE:H	1.62	0.63
54:DV:17:GLY:C	54:DV:18:LEU:HD13	2.23	0.63
58:DZ:71:VAL:CG1	58:DZ:74:VAL:HG23	2.29	0.63
58:DZ:132:ASN:C	58:DZ:134:PRO:HD3	2.24	0.63
1:AA:1000:U:H2'	1:AA:1001:A:H8	1.64	0.63
1:AA:1206:G:O2'	1:AA:1207:G:H5'	1.99	0.63
1:AA:1288:A:H1'	1:AA:1352:C:O2'	1.99	0.63
5:AE:26:PHE:O	5:AE:27:ARG:HB2	1.97	0.63
27:B1:14:VAL:HG13	27:B1:40:ARG:O	1.98	0.63
36:BA:612:C:C2'	36:BA:613:G:C5'	2.76	0.63
36:BA:2305:A:H1'	42:BG:136:ARG:CG	2.29	0.63
36:BA:2352:A:C2'	36:BA:2353:G:H5'	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2687:U:C5	36:BA:2688:U:C5	2.86	0.63
38:BC:40:THR:HG22	38:BC:176:GLY:O	1.98	0.63
40:BE:9:VAL:HG22	40:BE:9:VAL:O	1.97	0.63
40:BE:196:VAL:HG23	40:BE:196:VAL:O	1.98	0.63
41:BF:70:THR:HG22	41:BF:72:ARG:HG2	1.80	0.63
50:BR:63:ARG:HG2	50:BR:80:PHE:CE2	2.32	0.63
1:CA:977:A:H2'	1:CA:977:A:N3	2.14	0.63
1:CA:1031:G:H2'	1:CA:1032:G:O4'	1.99	0.63
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.28	0.63
3:CC:187:ALA:HB3	3:CC:198:VAL:HB	1.81	0.63
8:CH:81:HIS:ND1	8:CH:138:TRP:OXT	2.31	0.63
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.64	0.63
13:CM:89:GLY:C	13:CM:90:LEU:O	2.41	0.63
16:CP:45:THR:HG22	16:CP:47:ASP:HB3	1.80	0.63
28:D2:35:LEU:HD11	28:D2:50:ILE:CG1	2.29	0.63
30:D4:46:GLN:HG3	30:D4:47:GLN:H	1.63	0.63
31:D5:45:VAL:HG13	31:D5:51:TYR:HB2	1.81	0.63
32:D6:10:LEU:HD22	32:D6:10:LEU:N	2.14	0.63
36:DA:988:A:H8	36:DA:988:A:O5'	1.82	0.63
36:DA:1775:U:H2'	36:DA:1776:G:H5'	1.80	0.63
36:DA:2173:A:H3'	36:DA:2173:A:N3	2.12	0.63
36:DA:2179:C:H4'	36:DA:2180:U:O5'	1.97	0.63
36:DA:2652:C:H2'	36:DA:2653:U:C6	2.33	0.63
36:DA:2762:G:H5'	36:DA:2762:G:C8	2.30	0.63
36:DA:2785:C:H2'	36:DA:2786:U:C6	2.34	0.63
36:DA:2802:G:H3'	36:DA:2803:C:C5'	2.26	0.63
43:DH:41:MET:HG3	43:DH:42:ARG:O	1.97	0.63
52:DT:10:VAL:C	52:DT:12:SER:N	2.56	0.63
52:DT:52:ILE:HA	52:DT:61:PHE:HA	1.80	0.63
53:DU:9:VAL:HG23	53:DU:10:ARG:H	1.64	0.63
54:DV:36:PRO:HA	54:DV:56:SER:CB	2.29	0.63
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.79	0.63
55:DW:6:ILE:HG22	55:DW:7:ALA:N	2.14	0.63
56:DX:11:PRO:HG2	56:DX:13:LEU:CG	2.29	0.63
56:DX:56:THR:HG22	56:DX:79:ALA:HB2	1.79	0.63
1:AA:38:G:H22	1:AA:397:A:H5''	1.63	0.63
1:AA:977:A:N3	1:AA:977:A:H2'	2.12	0.63
1:AA:1369:C:H2'	1:AA:1370:G:O4'	1.99	0.63
4:AD:79:PHE:HA	4:AD:93:PHE:HD2	1.64	0.63
4:AD:165:MET:HE3	4:AD:176:LEU:HD21	1.81	0.63
12:AL:84:LEU:HD23	12:AL:85:ILE:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:82:ILE:HD13	15:AO:83:GLU:N	2.13	0.63
18:AR:24:ALA:C	18:AR:26:LEU:H	2.07	0.63
25:AZ:145:GLU:O	25:AZ:148:ASP:N	2.31	0.63
31:B5:5:PRO:HA	36:BA:2056:G:N2	2.14	0.63
33:B7:8:ASN:C	33:B7:8:ASN:ND2	2.55	0.63
36:BA:445:C:H2'	36:BA:446:G:O4'	1.98	0.63
36:BA:729:G:C5	39:BD:208:LYS:HB2	2.34	0.63
36:BA:944:G:H22	48:BP:38:GLN:NE2	1.97	0.63
36:BA:1448:G:H2'	36:BA:1449:A:C8	2.34	0.63
36:BA:2540:C:O2'	36:BA:2541:A:H5'	1.99	0.63
41:BF:101:LEU:CD1	41:BF:102:PRO:HD2	2.29	0.63
41:BF:184:TYR:CE1	48:BP:7:ARG:NH2	2.67	0.63
43:BH:20:ALA:CB	43:BH:23:ARG:HB2	2.24	0.63
45:BK:86:UNK:O	45:BK:87:UNK:CB	2.46	0.63
48:BP:101:VAL:C	48:BP:103:ALA:H	2.07	0.63
52:BT:48:ILE:HD12	52:BT:64:ARG:O	1.99	0.63
53:BU:90:VAL:O	53:BU:92:ARG:N	2.32	0.63
56:BX:56:THR:HG22	56:BX:79:ALA:HB1	1.80	0.63
57:BY:73:ARG:HB3	57:BY:80:GLY:HA3	1.81	0.63
58:BZ:53:ILE:HG23	58:BZ:71:VAL:HB	1.80	0.63
1:CA:337:C:H2'	1:CA:338:A:C8	2.29	0.63
1:CA:686:U:H2'	1:CA:687:A:H8	1.63	0.63
1:CA:724:G:O2'	1:CA:725:G:H5'	1.98	0.63
1:CA:757:U:H2'	1:CA:758:G:O4'	1.98	0.63
1:CA:1228:C:H4'	13:CM:116:THR:O	1.99	0.63
3:CC:177:THR:HB	3:CC:180:ALA:HB2	1.81	0.63
3:CC:181:ASN:HD21	3:CC:204:LEU:HB2	1.64	0.63
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.79	0.63
7:CG:69:VAL:CG1	7:CG:104:LEU:HD21	2.24	0.63
7:CG:79:ARG:HG3	7:CG:83:ALA:O	1.98	0.63
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.64	0.63
12:CL:89:ARG:HH11	12:CL:91:LYS:HA	1.63	0.63
25:CZ:222:LEU:HD23	25:CZ:244:ARG:NH2	2.14	0.63
32:D6:15:GLU:HB2	32:D6:20:ASN:CB	2.28	0.63
36:DA:435:C:O2'	36:DA:436:C:H5'	1.98	0.63
36:DA:718:A:H2'	36:DA:719:C:H5'	1.79	0.63
36:DA:749:C:O2	36:DA:1618:A:H2'	1.98	0.63
36:DA:878:A:H5'	36:DA:878:A:N3	2.13	0.63
36:DA:1376:C:O2'	36:DA:1377:G:H5'	1.98	0.63
36:DA:1565:C:H2'	39:DD:21:PHE:HE1	1.64	0.63
36:DA:2469:A:H1'	36:DA:2482:G:C5	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2627:G:O2'	36:DA:2781:A:N1	2.27	0.63
39:DD:26:LYS:O	39:DD:27:THR:HB	1.99	0.63
39:DD:210:GLY:HA2	39:DD:213:ARG:HB2	1.81	0.63
40:DE:57:LYS:HE2	40:DE:59:VAL:HG12	1.81	0.63
41:DF:33:LEU:HD11	41:DF:113:ALA:HB2	1.81	0.63
42:DG:69:ALA:O	42:DG:71:THR:N	2.31	0.63
43:DH:132:ARG:HG3	43:DH:132:ARG:O	1.98	0.63
46:DN:126:PRO:O	46:DN:127:ASP:HB2	1.98	0.63
49:DQ:20:ALA:H	58:DZ:79:ARG:CZ	2.12	0.63
50:DR:13:HIS:HE1	50:DR:15:SER:OG	1.81	0.63
52:DT:113:LYS:C	52:DT:114:LEU:HD23	2.23	0.63
55:DW:12:ILE:HD12	55:DW:42:ARG:HH11	1.63	0.63
1:AA:127:G:HO2'	17:AQ:2:PRO:N	1.96	0.63
1:AA:563:A:N3	1:AA:563:A:H2'	2.13	0.63
4:AD:31:CYS:SG	4:AD:31:CYS:O	2.56	0.63
6:AF:99:ALA:O	6:AF:100:ASN:HB2	1.98	0.63
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.64	0.63
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	1.98	0.63
28:B2:35:LEU:HD13	28:B2:36:ARG:N	2.14	0.63
36:BA:718:A:H2'	36:BA:719:C:H5'	1.81	0.63
36:BA:966:G:H2'	36:BA:967:C:C6	2.33	0.63
36:BA:1345:C:C2'	36:BA:1346:G:H5'	2.29	0.63
36:BA:1431:U:O2'	36:BA:1432:C:H5'	1.99	0.63
36:BA:1999:C:H2'	36:BA:2000:G:C8	2.34	0.63
36:BA:2403:C:N4	36:BA:2414:G:H1	1.93	0.63
36:BA:2553:G:H2'	36:BA:2554:U:C4'	2.29	0.63
36:BA:2667:C:H2'	36:BA:2668:G:O4'	1.99	0.63
37:BB:8:U:H3	37:BB:113:G:H1	1.46	0.63
37:BB:37:C:O2	51:BS:95:HIS:NE2	2.31	0.63
37:BB:55:U:H2'	37:BB:56:G:H8	1.60	0.63
40:BE:9:VAL:HG13	40:BE:25:VAL:HB	1.79	0.63
41:BF:36:VAL:O	41:BF:39:TRP:HB3	1.99	0.63
41:BF:178:PRO:CB	41:BF:201:VAL:HG11	2.29	0.63
42:BG:58:GLN:HE22	42:BG:62:LEU:HD11	1.62	0.63
45:BK:32:UNK:HA	45:BK:63:UNK:O	1.98	0.63
46:BN:36:GLY:H	46:BN:49:GLY:HA2	1.62	0.63
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.34	0.63
50:BR:10:LEU:HD22	50:BR:17:ARG:NE	2.12	0.63
50:BR:18:LEU:HD13	50:BR:19:ALA:N	2.14	0.63
52:BT:53:ARG:HH11	52:BT:53:ARG:CB	2.11	0.63
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:65:ARG:CG	56:BX:66:LEU:H	2.05	0.63
1:CA:200:G:H2'	1:CA:201:C:C6	2.34	0.63
1:CA:1480:G:C2	1:CA:1481:U:H1'	2.33	0.63
2:CB:7:VAL:CG1	2:CB:11:LEU:HD11	2.29	0.63
2:CB:204:ASN:ND2	2:CB:204:ASN:C	2.56	0.63
3:CC:36:ASP:O	3:CC:40:ARG:HG3	1.98	0.63
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.80	0.63
28:D2:35:LEU:CD1	28:D2:50:ILE:HG13	2.28	0.63
32:D6:14:THR:CG2	32:D6:50:ARG:HB2	2.29	0.63
34:D8:8:LYS:HG2	34:D8:11:LYS:HD3	1.81	0.63
34:D8:8:LYS:HA	34:D8:11:LYS:HB3	1.79	0.63
36:DA:181:A:H2'	36:DA:182:A:O4'	1.98	0.63
36:DA:459:U:H2'	36:DA:460:A:C8	2.21	0.63
36:DA:858:U:O2	36:DA:2268:A:H2'	1.98	0.63
36:DA:1064:C:H42	36:DA:1074:G:H1	1.46	0.63
36:DA:1246:A:C2'	36:DA:1247:A:H5'	2.28	0.63
36:DA:1782:C:O2	36:DA:2609:U:H5''	1.98	0.63
36:DA:2304:G:H22	36:DA:2312:U:H3	1.47	0.63
36:DA:2572:A:C8	40:DE:144:ARG:HD2	2.34	0.63
36:DA:2631:G:H21	40:DE:61:ARG:HH12	1.44	0.63
37:DB:94:C:O2'	37:DB:95:C:H5'	1.98	0.63
41:DF:46:ARG:HG3	41:DF:46:ARG:NH1	2.08	0.63
41:DF:122:LYS:H	41:DF:122:LYS:HE3	1.62	0.63
47:DO:7:TYR:CE1	47:DO:20:MET:HE3	2.28	0.63
53:DU:3:ARG:HH11	53:DU:5:LYS:HB3	1.64	0.63
1:AA:619:U:C2	4:AD:135:LEU:HD21	2.33	0.62
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.33	0.62
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.29	0.62
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.28	0.62
2:AB:75:LYS:O	2:AB:77:ALA:N	2.31	0.62
5:AE:33:VAL:HG21	5:AE:109:ILE:CG1	2.23	0.62
5:AE:100:VAL:O	5:AE:101:ILE:HD13	1.99	0.62
25:AZ:182:MET:SD	25:AZ:188:THR:HB	2.38	0.62
25:AZ:264:ARG:CG	25:AZ:264:ARG:NH1	2.49	0.62
35:B9:1:MET:SD	36:BA:2477:C:H3'	2.40	0.62
36:BA:18:C:O2'	36:BA:554:U:H5''	1.99	0.62
36:BA:410:G:N2	36:BA:2407:G:C5	2.67	0.62
36:BA:520:G:H2'	36:BA:521:G:C8	2.33	0.62
36:BA:747:U:O3'	55:BW:89:ALA:HB2	1.99	0.62
36:BA:1183:G:H2'	36:BA:1184:G:H8	1.62	0.62
36:BA:1341:U:O2	36:BA:1398:C:H5'	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1803:A:O3'	39:BD:259:THR:CG2	2.47	0.62
36:BA:2367:G:O2'	36:BA:2368:C:H5'	1.98	0.62
36:BA:2726:U:O2	36:BA:2726:U:H5'	1.98	0.62
42:BG:52:ILE:HD13	42:BG:52:ILE:N	2.09	0.62
42:BG:63:ILE:HG13	42:BG:64:THR:HG22	1.80	0.62
42:BG:171:ALA:O	42:BG:175:LEU:HG	1.99	0.62
47:BO:64:ARG:O	47:BO:82:ASN:HA	1.99	0.62
52:BT:32:TYR:N	52:BT:32:TYR:CD2	2.67	0.62
55:BW:12:ILE:CD1	55:BW:42:ARG:NH1	2.60	0.62
57:BY:84:ARG:NH2	57:BY:97:ARG:HB2	2.13	0.62
58:BZ:9:TYR:CE2	58:BZ:61:LEU:HD13	2.34	0.62
2:CB:75:LYS:C	2:CB:77:ALA:H	2.07	0.62
7:CG:100:ALA:O	7:CG:101:LEU:C	2.41	0.62
9:CI:78:LYS:HE3	9:CI:101:PHE:CZ	2.34	0.62
9:CI:82:ALA:O	9:CI:85:LEU:HD12	1.98	0.62
27:D1:62:VAL:CG2	27:D1:67:ILE:HA	2.13	0.62
28:D2:33:MET:O	28:D2:34:GLU:C	2.42	0.62
29:D3:3:ARG:HB2	29:D3:59:VAL:O	1.99	0.62
29:D3:59:VAL:CG1	29:D3:60:GLU:N	2.62	0.62
36:DA:198:C:H5'	36:DA:2244:U:OP1	1.99	0.62
36:DA:271(Z):C:O2	36:DA:272(C):G:H1'	1.98	0.62
36:DA:272(B):G:H2'	36:DA:272(C):G:H8	1.64	0.62
36:DA:565:C:H2'	36:DA:566:U:H6	1.64	0.62
36:DA:874:G:H2'	36:DA:875:G:H8	1.63	0.62
36:DA:1248:G:P	41:DF:92:PRO:HG3	2.39	0.62
36:DA:2306:C:C4'	42:DG:136:ARG:HH22	2.05	0.62
36:DA:2312:U:C2'	36:DA:2313:C:H5''	2.29	0.62
36:DA:2334:G:H5'	51:DS:13:ARG:HD3	1.80	0.62
36:DA:2485:G:O2'	36:DA:2486:G:H5'	1.99	0.62
36:DA:2533:A:C2'	36:DA:2534:A:H5'	2.29	0.62
36:DA:2579:C:O2'	40:DE:131:ALA:HB2	1.99	0.62
38:DC:100:ILE:HG23	38:DC:127:LEU:CD1	2.29	0.62
42:DG:32:PRO:HA	42:DG:162:THR:CB	2.29	0.62
50:DR:116:LEU:O	50:DR:117:VAL:HG12	1.99	0.62
51:DS:35:ILE:O	51:DS:35:ILE:HG12	1.99	0.62
51:DS:64:GLU:O	51:DS:67:ARG:HG3	1.99	0.62
51:DS:106:ARG:HD2	51:DS:107:GLU:C	2.23	0.62
52:DT:106:SER:O	52:DT:107:ASP:CB	2.47	0.62
54:DV:29:PRO:HA	54:DV:61:VAL:HG21	1.81	0.62
57:DY:14:LEU:HD12	57:DY:23:ARG:O	1.99	0.62
58:DZ:24:LEU:HB3	58:DZ:39:VAL:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.35	0.62
1:AA:506:G:H2'	1:AA:507:C:C6	2.34	0.62
1:AA:881:G:H2'	1:AA:882:C:O4'	1.99	0.62
1:AA:924:C:H2'	1:AA:925:G:C8	2.33	0.62
1:AA:1158:C:O2'	1:AA:1159:U:H4'	1.99	0.62
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.34	0.62
1:AA:1439:C:H42	1:AA:1463:C:N4	1.97	0.62
1:AA:1464:G:O2'	1:AA:1465:C:H5'	1.98	0.62
2:AB:102:LEU:HB3	2:AB:180:LEU:CD1	2.29	0.62
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.14	0.62
5:AE:26:PHE:N	5:AE:26:PHE:CD1	2.67	0.62
14:AN:48:ALA:N	14:AN:53:LEU:HD12	2.13	0.62
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.24	0.62
16:AP:52:ASP:OD1	16:AP:55:ARG:HG3	1.98	0.62
17:AQ:10:VAL:HG21	17:AQ:55:ASP:HB2	1.80	0.62
27:B1:88:LYS:HD3	27:B1:88:LYS:O	1.99	0.62
28:B2:10:LEU:HD23	28:B2:14:ARG:HG3	1.80	0.62
28:B2:35:LEU:HD21	28:B2:50:ILE:CG1	2.30	0.62
31:B5:3:LYS:HD3	36:BA:747:U:OP1	1.99	0.62
35:B9:30:PRO:C	35:B9:32:HIS:H	2.07	0.62
36:BA:637:A:H4'	36:BA:638:G:O5'	1.98	0.62
36:BA:1328:G:C2	36:BA:1647:G:N2	2.67	0.62
36:BA:1409:C:H2'	36:BA:1410:G:C8	2.34	0.62
36:BA:1605:C:C2'	36:BA:1606:G:H5'	2.29	0.62
36:BA:2085:C:O2'	36:BA:2086:U:H5'	1.99	0.62
36:BA:2096:U:O2'	36:BA:2097:C:H5'	1.99	0.62
36:BA:2134:A:H61	36:BA:2157:G:H1'	1.64	0.62
36:BA:2455:G:O2'	36:BA:2456:C:H5'	1.99	0.62
39:BD:24:ILE:HD13	39:BD:25:THR:N	2.13	0.62
40:BE:108:SER:O	40:BE:162:ALA:HA	1.99	0.62
40:BE:169:ASN:C	40:BE:169:ASN:HD22	2.07	0.62
56:BX:10:ALA:HB1	56:BX:11:PRO:HD2	1.81	0.62
1:CA:935:A:H2'	1:CA:936:C:C6	2.33	0.62
1:CA:946:A:H2'	1:CA:947:G:C8	2.34	0.62
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.34	0.62
1:CA:1312:G:H2'	1:CA:1313:U:H6	1.64	0.62
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.64	0.62
22:CV:63:G:H2'	22:CV:64:A:H8	1.62	0.62
27:D1:5:CYS:SG	27:D1:8:SER:N	2.71	0.62
27:D1:6:GLU:OE1	27:D1:60:PHE:CD1	2.51	0.62
32:D6:53:LYS:CG	32:D6:54:ILE:H	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:30:ARG:NH2	36:DA:2419:U:O4	2.32	0.62
36:DA:391:G:C2'	36:DA:392:C:H5'	2.29	0.62
36:DA:654(J):A:C8	36:DA:654(L):G:H8	2.17	0.62
36:DA:657:U:H2'	36:DA:658:C:C6	2.33	0.62
36:DA:783:A:H8	36:DA:784:A:H4'	1.64	0.62
36:DA:786:C:O2'	36:DA:787:U:H5'	1.99	0.62
36:DA:1924:C:H2'	36:DA:1925:C:H6	1.64	0.62
36:DA:2134:A:H61	36:DA:2157:G:H1'	1.64	0.62
36:DA:2712:U:O2'	36:DA:2712(A):A:H3'	1.99	0.62
48:DP:36:LYS:CD	48:DP:41:ARG:HB3	2.29	0.62
52:DT:28:VAL:CG2	52:DT:47:GLY:N	2.60	0.62
52:DT:67:SER:O	52:DT:68:TYR:HB2	1.98	0.62
52:DT:102:ILE:HG13	52:DT:103:ARG:N	2.12	0.62
57:DY:88:LYS:O	57:DY:89:PHE:HB2	1.99	0.62
1:AA:92:C:H2'	1:AA:93:G:H8	1.63	0.62
1:AA:167:G:H2'	1:AA:168:G:C8	2.35	0.62
1:AA:540:G:H2'	1:AA:541:G:H8	1.64	0.62
1:AA:849:C:H2'	1:AA:850:U:O4'	1.99	0.62
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.29	0.62
4:AD:128:VAL:O	4:AD:129:ASN:C	2.42	0.62
5:AE:136:MET:O	5:AE:138:ALA:N	2.33	0.62
8:AH:94:TYR:N	8:AH:94:TYR:CD1	2.65	0.62
11:AK:111:ASP:HB2	18:AR:84:LYS:HD2	1.81	0.62
13:AM:30:ALA:O	13:AM:32:GLU:N	2.32	0.62
25:AZ:98:GLN:O	25:AZ:98:GLN:HG2	1.98	0.62
33:B7:30:VAL:HG11	36:BA:466:A:H4'	1.80	0.62
34:B8:8:LYS:HG2	34:B8:11:LYS:CD	2.29	0.62
36:BA:1229:G:H2'	36:BA:1230:C:O4'	1.98	0.62
36:BA:1543:C:C3'	36:BA:1544:A:H5''	2.25	0.62
36:BA:2162:G:O2'	36:BA:2163:C:H5'	1.99	0.62
36:BA:2562:U:H2'	36:BA:2563:U:H5'	1.80	0.62
36:BA:2762:G:H5'	36:BA:2762:G:C8	2.31	0.62
36:BA:2762:G:H2'	36:BA:2763:G:H5'	1.80	0.62
37:BB:82:G:H2'	37:BB:83:G:C8	2.33	0.62
39:BD:65:ILE:N	39:BD:65:ILE:CD1	2.58	0.62
40:BE:81:ILE:O	40:BE:81:ILE:HG22	1.99	0.62
40:BE:132:HIS:HA	40:BE:135:HIS:HE1	1.62	0.62
41:BF:33:LEU:HD11	41:BF:113:ALA:HB2	1.80	0.62
41:BF:61:GLY:HA2	41:BF:77:ASP:HB3	1.82	0.62
41:BF:65:TRP:CZ3	41:BF:75:HIS:CD2	2.87	0.62
43:BH:41:MET:HG3	43:BH:42:ARG:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:92:ILE:O	43:BH:94:TYR:N	2.31	0.62
45:BK:90:UNK:HA	58:BZ:112:ARG:HH22	1.62	0.62
50:BR:77:ARG:C	50:BR:79:LEU:H	2.08	0.62
53:BU:20:LEU:H	53:BU:20:LEU:CD2	2.12	0.62
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.79	0.62
56:BX:35:THR:HG22	56:BX:37:THR:N	2.09	0.62
56:BX:56:THR:HG22	56:BX:79:ALA:HB2	1.81	0.62
1:CA:185:A:N3	20:CT:81:LYS:NZ	2.47	0.62
1:CA:598:U:H4'	8:CH:94:TYR:CD2	2.35	0.62
1:CA:928:G:C2'	1:CA:929:G:H5'	2.29	0.62
1:CA:1152:A:OP1	10:CJ:68:HIS:NE2	2.30	0.62
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.63	0.62
8:CH:36:LEU:CD1	8:CH:59:LEU:HD13	2.29	0.62
36:DA:21:A:O2'	36:DA:22:C:H5'	1.99	0.62
36:DA:92:A:O2'	36:DA:93:G:H5'	1.98	0.62
36:DA:122:G:H1	36:DA:129:C:N4	1.96	0.62
36:DA:686:G:H21	36:DA:788:A:H61	1.47	0.62
36:DA:769:G:H2'	36:DA:770:G:H8	1.65	0.62
36:DA:1023:U:O2'	36:DA:1122:G:H5''	1.99	0.62
36:DA:1215:G:H5''	53:DU:12:ARG:NH2	2.14	0.62
36:DA:1763:G:N2	36:DA:1765:C:H5''	2.13	0.62
40:DE:51:PHE:O	40:DE:74:PRO:HB3	1.98	0.62
45:DK:90:UNK:HA	58:DZ:112:ARG:HH22	1.63	0.62
50:DR:28:LEU:O	50:DR:30:THR:N	2.32	0.62
53:DU:90:VAL:HG12	53:DU:91:ASP:N	2.14	0.62
56:DX:48:LYS:O	56:DX:49:VAL:HG13	2.00	0.62
1:AA:585:G:H2'	1:AA:586:C:C6	2.34	0.62
1:AA:923:A:H5''	5:AE:21:ALA:HB2	1.82	0.62
1:AA:952:U:O2'	1:AA:953:G:H5'	1.99	0.62
1:AA:1031:G:H2'	1:AA:1032:G:O4'	1.99	0.62
2:AB:102:LEU:HD23	2:AB:182:ILE:CD1	2.28	0.62
8:AH:63:LEU:H	8:AH:63:LEU:CD2	2.12	0.62
8:AH:74:PRO:O	8:AH:75:ARG:C	2.42	0.62
10:AJ:12:ASP:C	10:AJ:14:LYS:H	2.06	0.62
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.43	0.62
14:AN:29:ARG:HH11	14:AN:29:ARG:CG	2.13	0.62
14:AN:59:ALA:HB1	14:AN:61:TRP:CZ3	2.35	0.62
16:AP:20:VAL:HG21	16:AP:32:TYR:CE2	2.34	0.62
31:B5:45:VAL:HG13	31:B5:51:TYR:HB2	1.81	0.62
36:BA:245:G:N2	36:BA:254:G:H1'	2.14	0.62
36:BA:298:G:N2	36:BA:339:U:C5	2.66	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:628:G:H2'	36:BA:629:G:C5'	2.29	0.62
36:BA:782:A:H5'	36:BA:783:A:C2	2.34	0.62
36:BA:1064:C:H42	36:BA:1074:G:H1	1.47	0.62
36:BA:1465:G:H5'	36:BA:1528:A:C8	2.35	0.62
36:BA:1659:U:OP2	40:BE:132:HIS:HE1	1.81	0.62
36:BA:2125:G:H5'	38:BC:40:THR:OG1	1.99	0.62
36:BA:2472:G:H2'	36:BA:2475:C:H42	1.63	0.62
36:BA:2485:G:H5''	49:BQ:46:GLN:HE21	1.63	0.62
37:BB:87:G:H8	37:BB:87:G:O5'	1.82	0.62
40:BE:51:PHE:O	40:BE:74:PRO:HB3	1.99	0.62
40:BE:57:LYS:HE2	40:BE:59:VAL:HG12	1.80	0.62
41:BF:65:TRP:CZ3	41:BF:75:HIS:HD2	2.17	0.62
42:BG:125:PHE:CZ	42:BG:131:TYR:HD1	2.16	0.62
48:BP:97:PRO:C	48:BP:99:LEU:N	2.58	0.62
50:BR:12:ARG:HB3	50:BR:16:HIS:CD2	2.34	0.62
50:BR:21:TYR:HB3	50:BR:47:PHE:CE2	2.33	0.62
52:BT:11:GLU:H	52:BT:11:GLU:CD	2.08	0.62
55:BW:2:GLU:CA	55:BW:64:MET:HE1	2.30	0.62
1:CA:106:C:O2'	1:CA:107:G:H5'	1.99	0.62
1:CA:881:G:H2'	1:CA:882:C:O4'	1.99	0.62
1:CA:1298:C:N4	7:CG:114:ARG:HD2	2.13	0.62
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.00	0.62
5:CE:136:MET:O	5:CE:138:ALA:N	2.32	0.62
17:CQ:66:SER:OG	17:CQ:69:LYS:HB3	1.98	0.62
19:CS:63:THR:HG22	19:CS:66:MET:CG	2.29	0.62
27:D1:6:GLU:OE1	27:D1:60:PHE:HD1	1.82	0.62
28:D2:51:ARG:HB2	28:D2:55:ARG:HH22	1.62	0.62
36:DA:205:G:H1'	36:DA:206:U:H5	1.65	0.62
36:DA:520:G:H2'	36:DA:521:G:C8	2.33	0.62
36:DA:594:U:H2'	36:DA:595:C:H6	1.64	0.62
36:DA:600:G:H2'	36:DA:601:C:C6	2.34	0.62
36:DA:957:A:N1	36:DA:2458:G:H4'	2.15	0.62
36:DA:1141:U:C5	46:DN:64:GLY:HA3	2.34	0.62
36:DA:1367:A:H2'	36:DA:1368:G:H5'	1.79	0.62
36:DA:1659:U:OP2	40:DE:132:HIS:HE1	1.81	0.62
36:DA:2187:G:C2'	36:DA:2188:C:H5'	2.29	0.62
36:DA:2850:A:H2	50:DR:61:HIS:CD2	2.17	0.62
38:DC:83:ILE:HD11	38:DC:97:GLU:OE2	1.99	0.62
38:DC:120:MET:O	38:DC:123:VAL:HG12	1.99	0.62
39:DD:241:PRO:O	39:DD:243:GLY:N	2.31	0.62
41:DF:80:ALA:HB1	41:DF:81:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:127:GLU:HB2	41:DF:196:LEU:HD12	1.80	0.62
42:DG:43:LEU:HB3	42:DG:45:GLU:HG2	1.80	0.62
46:DN:17:ASP:OD1	46:DN:19:GLU:HG2	1.98	0.62
46:DN:60:ILE:HD13	46:DN:99:LEU:HD23	1.82	0.62
48:DP:79:ARG:O	48:DP:110:TYR:HB3	1.98	0.62
48:DP:134:ALA:HB2	48:DP:137:LYS:NZ	2.14	0.62
48:DP:147:LEU:HG	48:DP:148:LEU:N	2.15	0.62
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	1.99	0.62
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.14	0.62
57:DY:73:ARG:HB3	57:DY:80:GLY:HA3	1.80	0.62
1:AA:419:C:C2'	1:AA:420:U:H5'	2.30	0.62
1:AA:1049:U:H2'	14:AN:2:ALA:N	2.14	0.62
8:AH:31:PHE:O	8:AH:34:GLU:HG2	1.99	0.62
8:AH:134:ILE:HG22	8:AH:135:CYS:SG	2.39	0.62
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.09	0.62
20:AT:10:LEU:HD12	20:AT:11:SER:H	1.64	0.62
25:AZ:181:GLN:HG2	25:AZ:193:ASN:CG	2.23	0.62
26:B0:58:THR:HG22	26:B0:59:LEU:N	2.14	0.62
30:B4:7:PRO:O	30:B4:8:LYS:HB3	1.99	0.62
31:B5:16:ARG:NH1	31:B5:20:ARG:NH1	2.47	0.62
32:B6:8:LYS:HE3	32:B6:25:LYS:CD	2.30	0.62
34:B8:3:LYS:HD3	36:BA:242:G:C5'	2.29	0.62
36:BA:329:G:N2	57:BY:19:LYS:HE3	2.12	0.62
36:BA:2187:G:C2'	36:BA:2188:C:H5'	2.28	0.62
36:BA:2882:A:H5'	50:BR:96:ARG:HG3	1.80	0.62
38:BC:71:GLN:HE22	38:BC:157:LYS:HD3	1.63	0.62
39:BD:32:SER:O	39:BD:36:PRO:HG3	2.00	0.62
42:BG:27:ASN:O	42:BG:29:TRP:N	2.31	0.62
46:BN:17:ASP:OD1	46:BN:19:GLU:HG2	2.00	0.62
56:BX:63:LYS:HE2	56:BX:72:LYS:HG2	1.82	0.62
57:BY:43:ASN:O	57:BY:44:ILE:HD12	1.98	0.62
58:BZ:107:THR:CG2	58:BZ:111:VAL:HG21	2.29	0.62
1:CA:92:C:H2'	1:CA:93:G:H8	1.64	0.62
1:CA:775:G:H2'	1:CA:776:G:O4'	1.98	0.62
1:CA:789:U:O2	1:CA:791:G:C8	2.53	0.62
1:CA:909:A:OP1	12:CL:21:LYS:HD3	1.99	0.62
1:CA:1348:U:O2'	1:CA:1349:A:H8	1.81	0.62
1:CA:1432:G:O2'	1:CA:1468:A:N6	2.33	0.62
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.64	0.62
10:CJ:47:PHE:HB2	10:CJ:63:PHE:O	2.00	0.62
19:CS:16:LEU:C	19:CS:18:LYS:H	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:98:GLN:O	25:CZ:98:GLN:HG2	1.98	0.62
32:D6:8:LYS:HA	32:D6:27:LYS:HD3	1.81	0.62
34:D8:28:GLY:O	34:D8:32:LEU:HD23	2.00	0.62
36:DA:631:A:H1'	36:DA:2415:G:O2'	1.98	0.62
36:DA:639:U:H2'	36:DA:640:C:C6	2.33	0.62
36:DA:729:G:O2'	36:DA:763:G:H4'	1.98	0.62
36:DA:1183:G:H2'	36:DA:1184:G:H8	1.64	0.62
36:DA:1188:U:H4'	54:DV:79:VAL:HG13	1.82	0.62
36:DA:1639:U:O2'	36:DA:2699:C:H4'	1.99	0.62
36:DA:2152:G:O2'	36:DA:2153:G:H5'	1.99	0.62
42:DG:83:ARG:C	42:DG:85:GLY:H	2.07	0.62
48:DP:16:ARG:HB2	48:DP:16:ARG:NH1	2.15	0.62
49:DQ:43:THR:OG1	49:DQ:45:GLN:HG2	1.99	0.62
52:DT:68:TYR:C	52:DT:70:VAL:H	2.07	0.62
52:DT:70:VAL:HG12	52:DT:71:GLY:N	2.14	0.62
53:DU:16:LYS:C	53:DU:17:ILE:HD12	2.25	0.62
55:DW:36:LEU:H	55:DW:36:LEU:CD2	2.06	0.62
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ3	1.63	0.62
58:DZ:81:ARG:HB2	58:DZ:81:ARG:HH11	1.63	0.62
58:DZ:132:ASN:ND2	58:DZ:160:GLY:HA3	2.14	0.62
1:AA:137:C:H2'	1:AA:137:C:O2	1.97	0.62
1:AA:665:A:H2'	1:AA:725:G:N2	2.13	0.62
1:AA:686:U:H2'	1:AA:687:A:H8	1.62	0.62
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.64	0.62
9:AI:53:VAL:HG11	9:AI:92:TYR:CE2	2.35	0.62
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.45	0.62
27:B1:56:GLN:O	27:B1:57:GLU:C	2.42	0.62
32:B6:32:ASN:CG	32:B6:33:LYS:H	2.06	0.62
34:B8:52:LYS:HG2	48:BP:58:THR:HG21	1.78	0.62
36:BA:122:G:H1	36:BA:129:C:N4	1.96	0.62
36:BA:1791:A:O3'	39:BD:206:LEU:HB2	2.00	0.62
36:BA:2801(A):A:C4'	36:BA:2802:G:H5'	2.29	0.62
42:BG:27:ASN:C	42:BG:29:TRP:H	2.07	0.62
42:BG:58:GLN:O	42:BG:61:ALA:HB3	2.00	0.62
43:BH:41:MET:O	43:BH:42:ARG:HB3	1.99	0.62
46:BN:96:GLU:OE2	46:BN:96:GLU:N	2.33	0.62
48:BP:16:ARG:HB2	48:BP:16:ARG:CZ	2.29	0.62
48:BP:148:LEU:O	48:BP:149:GLU:HB2	2.00	0.62
50:BR:28:LEU:O	50:BR:30:THR:N	2.33	0.62
53:BU:59:ARG:O	53:BU:62:ILE:N	2.31	0.62
54:BV:29:PRO:HA	54:BV:61:VAL:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:2:GLU:HA	55:BW:64:MET:HE1	1.80	0.62
1:CA:538:G:O2'	1:CA:539:A:H5'	2.00	0.62
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.34	0.62
1:CA:1398:A:H61	5:CE:21:ALA:HA	1.65	0.62
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.63	0.62
3:CC:120:VAL:O	3:CC:124:ILE:HG13	1.99	0.62
5:CE:100:VAL:O	5:CE:101:ILE:HD13	1.99	0.62
8:CH:25:ASP:O	8:CH:26:VAL:HB	1.99	0.62
11:CK:72:ALA:O	11:CK:75:TYR:HB2	1.99	0.62
12:CL:84:LEU:HD23	12:CL:85:ILE:N	2.15	0.62
18:CR:53:ARG:CZ	18:CR:60:ALA:N	2.62	0.62
25:CZ:9:LYS:HD2	25:CZ:74:LYS:O	2.00	0.62
26:D0:25:ARG:NH2	26:D0:35:ASN:HD22	1.97	0.62
34:D8:33:ASN:ND2	36:DA:2419:U:H5''	2.15	0.62
34:D8:62:LEU:HD22	36:DA:242:G:H5'	1.81	0.62
36:DA:18:C:O2'	53:DU:23:GLY:HA2	1.99	0.62
36:DA:1779:U:H5	36:DA:1784:A:N7	1.96	0.62
36:DA:2007:C:H5'	36:DA:2824:C:C1'	2.28	0.62
37:DB:2:C:H2'	37:DB:3:C:H6	1.64	0.62
38:DC:106:GLY:O	38:DC:107:TRP:CB	2.47	0.62
40:DE:29:GLY:HA2	40:DE:180:ASN:ND2	2.15	0.62
42:DG:91:ARG:HG2	42:DG:92:VAL:N	2.13	0.62
43:DH:41:MET:O	43:DH:42:ARG:HB3	1.99	0.62
46:DN:18:ALA:HB2	46:DN:26:LEU:HD13	1.82	0.62
48:DP:6:LEU:H	48:DP:6:LEU:HD23	1.64	0.62
52:DT:74:ARG:C	52:DT:75:ILE:HD12	2.24	0.62
54:DV:18:LEU:HD23	54:DV:19:LYS:N	2.15	0.62
57:DY:85:VAL:HG12	57:DY:86:ARG:N	2.15	0.62
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	1.99	0.62
1:AA:343:U:O2	1:AA:347:G:N1	2.32	0.62
1:AA:815:A:N6	1:AA:1509:C:H1'	2.14	0.62
1:AA:1348:U:O2'	1:AA:1349:A:H8	1.82	0.62
9:AI:82:ALA:O	9:AI:85:LEU:HD12	1.99	0.62
15:AO:18:PHE:CD1	15:AO:18:PHE:O	2.53	0.62
22:AV:51:U:H2'	22:AV:52:G:C8	2.34	0.62
28:B2:59:ARG:HA	28:B2:62:THR:OG1	2.00	0.62
33:B7:11:LYS:NZ	36:BA:686:G:H5''	2.14	0.62
36:BA:1188:U:H4'	54:BV:79:VAL:HG13	1.82	0.62
36:BA:1202:C:C2'	36:BA:1203:G:H5'	2.28	0.62
36:BA:1331:A:HO2'	36:BA:1332:G:H8	1.47	0.62
36:BA:1664:A:H61	36:BA:1996:C:H42	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2182:G:H2'	36:BA:2183:C:C6	2.35	0.62
36:BA:2677:G:H2'	36:BA:2678:C:H6	1.65	0.62
36:BA:2892:A:C8	36:BA:2893:G:H1'	2.35	0.62
37:BB:115:G:H2'	37:BB:116:G:C8	2.34	0.62
38:BC:76:ALA:HB3	38:BC:94:VAL:HG13	1.82	0.62
39:BD:70:TRP:CZ3	39:BD:150:LYS:HA	2.35	0.62
39:BD:273:ARG:HG2	39:BD:273:ARG:HH11	1.64	0.62
40:BE:1:MET:O	40:BE:2:LYS:C	2.43	0.62
41:BF:162:LEU:HD12	41:BF:162:LEU:H	1.64	0.62
51:BS:83:LYS:C	51:BS:105:ALA:HB3	2.25	0.62
53:BU:66:ASN:HB2	53:BU:76:TYR:HB2	1.82	0.62
55:BW:36:LEU:H	55:BW:36:LEU:CD2	2.06	0.62
57:BY:9:LYS:HE2	57:BY:94:LYS:HE2	1.80	0.62
58:BZ:27:VAL:HA	58:BZ:37:VAL:HG22	1.80	0.62
1:CA:44:G:OP2	16:CP:12:LYS:HE3	2.00	0.62
1:CA:377:G:H1	1:CA:386:C:H42	1.47	0.62
1:CA:781:A:C2'	1:CA:782:A:H5'	2.30	0.62
1:CA:939:G:H2'	1:CA:940:C:C6	2.35	0.62
1:CA:1298:C:P	7:CG:114:ARG:HH22	2.23	0.62
2:CB:154:LEU:O	2:CB:156:LYS:N	2.33	0.62
5:CE:105:VAL:N	5:CE:106:PRO:HD2	2.13	0.62
9:CI:77:ILE:HG23	9:CI:81:ILE:HD11	1.81	0.62
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.12	0.62
17:CQ:8:GLY:HA3	17:CQ:22:LEU:O	1.99	0.62
25:CZ:277:LEU:HD12	25:CZ:280:GLY:N	2.07	0.62
25:CZ:355:LEU:C	25:CZ:359:VAL:HG23	2.25	0.62
28:D2:54:LYS:NZ	36:DA:60:G:H5''	2.13	0.62
28:D2:64:LEU:O	28:D2:64:LEU:HD23	1.99	0.62
36:DA:55:G:O2'	36:DA:127:A:H2	1.82	0.62
36:DA:444:C:OP2	41:DF:49:ALA:HB2	2.00	0.62
36:DA:621:A:H2'	36:DA:622:G:O4'	2.00	0.62
36:DA:1362:C:C2'	36:DA:1363:C:H5'	2.30	0.62
36:DA:1362:C:O2'	36:DA:1363:C:H5'	1.99	0.62
36:DA:1796:U:H2'	36:DA:1797:C:C6	2.34	0.62
36:DA:2085:C:O2'	36:DA:2086:U:H5'	2.00	0.62
36:DA:2352:A:C2'	36:DA:2353:G:H5'	2.30	0.62
36:DA:2892:A:C8	36:DA:2893:G:H1'	2.35	0.62
37:DB:79:C:O2'	37:DB:80:U:H5'	1.99	0.62
42:DG:83:ARG:O	42:DG:85:GLY:N	2.32	0.62
42:DG:111:LEU:O	42:DG:114:ILE:HG22	2.00	0.62
46:DN:6:PRO:O	46:DN:9:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:130:PHE:N	48:DP:130:PHE:CD2	2.67	0.62
52:DT:55:ASN:N	52:DT:59:THR:HG22	2.03	0.62
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.17	0.62
57:DY:43:ASN:O	57:DY:44:ILE:HD12	1.98	0.62
57:DY:50:ARG:HG3	57:DY:56:PRO:O	1.99	0.62
1:AA:242:C:H2'	1:AA:243:A:H5'	1.81	0.62
1:AA:275:G:O2'	1:AA:276:G:H5'	1.98	0.62
1:AA:522:C:H2'	1:AA:523:A:C8	2.34	0.62
1:AA:553:A:H2'	1:AA:554:C:C6	2.34	0.62
1:AA:708:C:H2'	1:AA:709:G:H8	1.65	0.62
1:AA:775:G:H2'	1:AA:776:G:O4'	2.00	0.62
1:AA:1152:A:H5''	10:AJ:13:HIS:HB2	1.81	0.62
2:AB:87:ARG:NH2	2:AB:233:SER:N	2.47	0.62
3:AC:120:VAL:HG12	3:AC:121:ALA:N	2.14	0.62
3:AC:142:MET:SD	3:AC:148:GLY:N	2.73	0.62
6:AF:50:TYR:HB2	6:AF:51:PRO:HD2	1.80	0.62
7:AG:31:MET:HG2	7:AG:32:ARG:H	1.63	0.62
7:AG:64:GLN:NE2	7:AG:68:ASN:ND2	2.47	0.62
10:AJ:45:ARG:NE	14:AN:36:PHE:CE2	2.68	0.62
20:AT:67:ALA:HA	20:AT:72:LEU:O	1.99	0.62
25:AZ:136:ASN:C	25:AZ:138:VAL:H	2.07	0.62
36:BA:1057:A:H2'	36:BA:1058:G:O4'	2.00	0.62
36:BA:1438:U:H2'	36:BA:1439:A:C8	2.34	0.62
36:BA:1783:A:C2	36:BA:2587:A:C2	2.88	0.62
36:BA:1855:G:H2'	36:BA:1856:G:H8	1.63	0.62
36:BA:2444:G:P	41:BF:68:LYS:HE3	2.40	0.62
36:BA:2833:G:C3'	36:BA:2834:G:C5'	2.70	0.62
42:BG:28:VAL:O	42:BG:28:VAL:HG12	1.99	0.62
43:BH:107:VAL:HG23	43:BH:152:ARG:HD3	1.80	0.62
55:BW:12:ILE:CG1	55:BW:42:ARG:HH12	2.13	0.62
57:BY:61:ILE:O	57:BY:62:GLU:HB2	2.00	0.62
58:BZ:24:LEU:HD23	58:BZ:25:PRO:N	2.15	0.62
2:CB:87:ARG:HH21	2:CB:233:SER:HB3	1.64	0.62
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.82	0.62
8:CH:120:THR:C	8:CH:122:ARG:H	2.07	0.62
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.82	0.62
19:CS:9:VAL:O	19:CS:11:VAL:N	2.33	0.62
25:CZ:143:ASP:HB3	25:CZ:146:LEU:HB3	1.82	0.62
25:CZ:263:ARG:HH21	25:CZ:297:GLU:HB3	1.64	0.62
27:D1:26:ARG:HD3	27:D1:27:GLU:OE2	2.00	0.62
33:D7:26:GLY:O	33:D7:30:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:35:GLN:O	34:D8:36:LYS:HG3	2.00	0.62
36:DA:1186:G:H2'	36:DA:1187:G:O4'	2.00	0.62
36:DA:1244:G:H4'	48:DP:11:GLY:HA2	1.80	0.62
36:DA:1551:C:H2'	36:DA:1552:G:H5'	1.81	0.62
36:DA:1909:C:H42	36:DA:1921:G:H1	1.48	0.62
36:DA:2405:G:H2'	36:DA:2411:A:N6	2.13	0.62
36:DA:2467:C:O2'	36:DA:2468:G:H5'	1.99	0.62
38:DC:186:ALA:O	38:DC:190:ARG:HG3	2.00	0.62
39:DD:164:GLN:OE1	39:DD:176:ARG:NH2	2.33	0.62
39:DD:261:LYS:HZ1	39:DD:263:ARG:HB2	1.65	0.62
40:DE:142:GLY:C	40:DE:143:ASN:HD22	2.08	0.62
42:DG:52:ILE:HB	42:DG:54:GLU:CD	2.24	0.62
47:DO:2:ILE:CD1	47:DO:82:ASN:ND2	2.58	0.62
49:DQ:50:ALA:O	49:DQ:51:ARG:C	2.41	0.62
56:DX:35:THR:HG22	56:DX:37:THR:N	2.10	0.62
58:DZ:146:ILE:HG13	58:DZ:147:GLY:H	1.65	0.62
1:AA:102:G:O2'	1:AA:103:C:H5'	2.00	0.62
1:AA:115:G:H1'	1:AA:116:A:N7	2.15	0.62
1:AA:361:G:O2'	1:AA:362:G:H5'	1.98	0.62
1:AA:775:G:O2'	1:AA:776:G:H5'	1.99	0.62
1:AA:867:G:O2'	1:AA:868:C:H5'	2.00	0.62
7:AG:22:LEU:O	7:AG:22:LEU:HD23	1.98	0.62
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.82	0.62
12:AL:90:VAL:HG22	12:AL:99:HIS:CE1	2.35	0.62
13:AM:68:GLY:O	13:AM:72:ALA:HB3	2.00	0.62
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.64	0.62
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	1.99	0.62
18:AR:75:ILE:C	18:AR:77:GLY:H	2.08	0.62
20:AT:81:LYS:C	20:AT:83:ARG:H	2.07	0.62
27:B1:7:ILE:CG2	27:B1:8:SER:N	2.62	0.62
27:B1:34:THR:HG22	27:B1:35:THR:N	2.14	0.62
28:B2:37:PHE:O	28:B2:40:SER:HB2	1.99	0.62
30:B4:8:LYS:O	30:B4:9:LEU:CB	2.48	0.62
36:BA:328:U:H4'	57:BY:68:HIS:CD2	2.35	0.62
36:BA:1068:G:H1'	36:BA:1069:A:OP1	1.99	0.62
36:BA:1775:U:C2'	36:BA:1776:G:H5'	2.29	0.62
36:BA:1902:C:O2'	39:BD:244:ARG:HB2	2.00	0.62
36:BA:2389:G:H5''	36:BA:2390:U:C5'	2.29	0.62
38:BC:40:THR:HG23	38:BC:177:LYS:CD	2.30	0.62
38:BC:120:MET:O	38:BC:123:VAL:HG12	1.99	0.62
39:BD:69:ARG:NH2	39:BD:192:THR:HB	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:176:ARG:HG2	39:BD:176:ARG:HH11	1.65	0.62
40:BE:126:PRO:O	40:BE:128:SER:N	2.32	0.62
48:BP:66:GLY:O	48:BP:67:MET:CB	2.47	0.62
49:BQ:59:ARG:C	49:BQ:59:ARG:HD2	2.24	0.62
50:BR:35:THR:HG23	50:BR:112:ALA:O	1.99	0.62
52:BT:68:TYR:C	52:BT:70:VAL:H	2.07	0.62
57:BY:88:LYS:O	57:BY:89:PHE:HB2	1.99	0.62
58:BZ:52:SER:O	58:BZ:53:ILE:HG23	1.99	0.62
1:CA:119:A:C4'	1:CA:120:A:O5'	2.45	0.62
1:CA:405:U:O2	1:CA:498:U:H2'	1.99	0.62
1:CA:669:U:H2'	1:CA:670:G:H8	1.65	0.62
1:CA:678:U:H2'	1:CA:679:C:O4'	1.99	0.62
1:CA:741:G:H2'	1:CA:742:G:C8	2.32	0.62
1:CA:920:U:C1'	1:CA:1080:A:C2	2.82	0.62
3:CC:147:LYS:O	3:CC:203:PHE:HD2	1.81	0.62
4:CD:59:ARG:O	4:CD:63:LYS:HB2	2.00	0.62
10:CJ:12:ASP:C	10:CJ:14:LYS:H	2.08	0.62
14:CN:42:ILE:HG22	14:CN:43:CYS:N	2.13	0.62
20:CT:64:ASP:O	20:CT:67:ALA:HB3	1.99	0.62
25:CZ:113:MET:O	25:CZ:116:THR:HB	2.00	0.62
27:D1:19:GLN:HA	27:D1:19:GLN:OE1	1.99	0.62
32:D6:11:LEU:HD13	32:D6:11:LEU:C	2.25	0.62
36:DA:83:G:H5''	36:DA:84:A:OP1	2.00	0.62
36:DA:380:U:H2'	36:DA:381:G:C8	2.34	0.62
36:DA:1247:A:OP2	48:DP:18:ARG:NH1	2.33	0.62
36:DA:1519:G:H5'	36:DA:1520:G:OP2	1.99	0.62
36:DA:1570:A:H2'	36:DA:1571:A:C8	2.34	0.62
36:DA:2182:G:H2'	36:DA:2183:C:C6	2.34	0.62
36:DA:2312:U:H2'	36:DA:2313:C:C5'	2.29	0.62
36:DA:2762:G:H2'	36:DA:2763:G:H5'	1.82	0.62
42:DG:96:ARG:O	42:DG:99:MET:N	2.32	0.62
46:DN:26:LEU:HG	46:DN:27:ALA:N	2.15	0.62
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.35	0.62
1:AA:678:U:O2'	1:AA:679:C:H5'	2.00	0.62
1:AA:767:A:H2'	1:AA:768:A:C8	2.35	0.62
1:AA:1117:G:N2	1:AA:1180:A:H1'	2.15	0.62
1:AA:1128:C:H2'	1:AA:1139:G:O6	1.99	0.62
1:AA:1255:G:H21	1:AA:1258:G:N2	1.97	0.62
2:AB:166:ASP:O	2:AB:169:LYS:HB2	2.00	0.62
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.81	0.62
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:138:LYS:O	7:AG:142:GLU:HG3	1.99	0.62
14:AN:42:ILE:HG22	14:AN:43:CYS:N	2.15	0.62
14:AN:59:ALA:O	14:AN:60:SER:HB2	1.99	0.62
25:AZ:385:ARG:HD3	63:AZ:502:KIR:H452	1.82	0.62
31:B5:40:LYS:HD3	31:B5:44:THR:HB	1.80	0.62
36:BA:34:C:H41	36:BA:447:A:N6	1.98	0.62
36:BA:523:C:H2'	36:BA:524:U:C5'	2.26	0.62
36:BA:547:A:H2'	36:BA:548:A:C8	2.34	0.62
36:BA:869:G:O2'	36:BA:870:A:H5'	2.00	0.62
36:BA:1093:G:H4'	43:BH:170:ARG:HH12	1.63	0.62
36:BA:1169:G:H1	36:BA:1180:C:N4	1.98	0.62
36:BA:2024:G:H2'	36:BA:2025:C:O4'	2.00	0.62
36:BA:2226:C:H2'	36:BA:2227:A:O4'	2.00	0.62
36:BA:2413:G:H2'	36:BA:2414:G:H8	1.65	0.62
36:BA:2605:U:H2'	36:BA:2606:C:C6	2.35	0.62
38:BC:106:GLY:O	38:BC:107:TRP:CB	2.47	0.62
40:BE:47:VAL:HG21	40:BE:86:PRO:CD	2.29	0.62
43:BH:52:VAL:HG21	43:BH:69:ARG:CB	2.29	0.62
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.63	0.62
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.25	0.62
1:CA:9:G:H1	1:CA:25:C:H42	1.46	0.62
1:CA:1074:G:O4'	2:CB:104:ASN:ND2	2.33	0.62
2:CB:83:MET:HE2	2:CB:86:GLU:OE1	1.99	0.62
3:CC:58:GLU:N	3:CC:65:ALA:CB	2.60	0.62
7:CG:80:VAL:HG12	7:CG:81:GLY:N	2.13	0.62
7:CG:118:VAL:O	7:CG:119:ARG:C	2.43	0.62
11:CK:110:ASP:CB	18:CR:85:LEU:HD23	2.29	0.62
25:CZ:339:ARG:HE	25:CZ:352:VAL:HG22	1.65	0.62
34:D8:50:LEU:CD1	34:D8:51:ALA:H	2.06	0.62
36:DA:83:G:O2'	36:DA:84:A:C8	2.51	0.62
36:DA:581:C:H2'	36:DA:582:G:H8	1.63	0.62
36:DA:685:A:C2	36:DA:787:U:H1'	2.35	0.62
36:DA:790:C:O2'	36:DA:791:C:OP1	2.17	0.62
36:DA:2113:U:H2'	36:DA:2114:A:H8	1.65	0.62
36:DA:2367:G:O2'	36:DA:2368:C:H5'	1.99	0.62
36:DA:2410:G:H2'	36:DA:2411:A:H8	1.63	0.62
38:DC:100:ILE:HG23	38:DC:127:LEU:CG	2.29	0.62
40:DE:116:VAL:O	40:DE:117:MET:CB	2.48	0.62
41:DF:102:PRO:O	41:DF:106:ARG:HG3	2.00	0.62
42:DG:2:PRO:O	42:DG:3:LEU:HB2	2.00	0.62
42:DG:12:TYR:HA	42:DG:16:ARG:CG	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:39:ILE:HG22	42:DG:157:ILE:HA	1.81	0.62
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.99	0.62
49:DQ:67:ARG:HB2	49:DQ:102:VAL:O	2.00	0.62
58:DZ:31:ARG:HD3	58:DZ:32:HIS:NE2	2.14	0.62
58:DZ:177:PRO:O	58:DZ:178:GLU:OE1	2.18	0.62
1:AA:726:C:H2'	1:AA:727:G:H8	1.65	0.61
1:AA:892:A:H2'	1:AA:893:C:C6	2.35	0.61
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.65	0.61
1:AA:1444:C:H2'	1:AA:1445:C:H6	1.62	0.61
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.14	0.61
3:AC:120:VAL:HG13	3:AC:124:ILE:HD11	1.81	0.61
8:AH:36:LEU:CD1	8:AH:59:LEU:HD13	2.29	0.61
10:AJ:65:LEU:HD22	14:AN:56:VAL:HG22	1.82	0.61
16:AP:12:LYS:C	16:AP:14:ASN:H	2.06	0.61
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	1.99	0.61
21:AU:10:ARG:O	21:AU:13:ILE:N	2.33	0.61
25:AZ:143:ASP:HB3	25:AZ:146:LEU:HB3	1.80	0.61
27:B1:11:ARG:CB	27:B1:11:ARG:CZ	2.78	0.61
28:B2:63:VAL:C	28:B2:65:ASN:N	2.56	0.61
31:B5:39:MET:O	55:BW:38:TYR:HE2	1.83	0.61
36:BA:227:A:H5''	48:BP:76:LYS:CE	2.16	0.61
36:BA:514:A:H2'	36:BA:515:A:C8	2.35	0.61
36:BA:669:G:N2	36:BA:670:A:C2	2.68	0.61
36:BA:1170:G:H22	36:BA:1179:C:N4	1.96	0.61
36:BA:1654:A:C2	40:BE:113:PHE:CD2	2.88	0.61
36:BA:1693:U:H5'	36:BA:1693:U:H6	1.64	0.61
36:BA:1818:U:H2'	39:BD:157:ARG:CG	2.30	0.61
36:BA:2084:C:H2'	36:BA:2085:C:H6	1.64	0.61
36:BA:2159:G:H2'	36:BA:2160:G:H5''	1.81	0.61
36:BA:2653:U:H3'	36:BA:2654:A:C8	2.35	0.61
37:BB:2:C:H2'	37:BB:3:C:H6	1.64	0.61
38:BC:30:LYS:HZ3	38:BC:30:LYS:HA	1.65	0.61
38:BC:151:GLU:HA	38:BC:154:ARG:HD2	1.80	0.61
39:BD:209:ALA:C	39:BD:210:GLY:O	2.40	0.61
46:BN:23:LEU:HD12	46:BN:102:ALA:HB2	1.82	0.61
1:CA:137:C:O2	1:CA:137:C:H2'	1.98	0.61
1:CA:737:A:OP1	6:CF:92:LYS:N	2.33	0.61
3:CC:40:ARG:CZ	3:CC:57:ILE:HD12	2.30	0.61
4:CD:170:VAL:HG12	4:CD:171:GLY:H	1.65	0.61
8:CH:81:HIS:ND1	8:CH:81:HIS:N	2.48	0.61
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:59:ALA:O	14:CN:60:SER:HB2	1.99	0.61
26:D0:4:LYS:HD3	36:DA:2252:G:O6	1.99	0.61
31:D5:40:LYS:HE2	31:D5:46:CYS:SG	2.40	0.61
36:DA:472:A:H8	36:DA:472:A:H5'	1.65	0.61
36:DA:973:A:H5'	36:DA:1188:U:H1'	1.81	0.61
36:DA:1458:C:H4'	36:DA:1459:G:C5'	2.30	0.61
36:DA:1651:G:H4'	50:DR:39:PRO:HG2	1.82	0.61
36:DA:2048:G:H1	36:DA:2620:C:N4	1.97	0.61
36:DA:2821:A:H61	50:DR:4:LEU:HD23	1.64	0.61
37:DB:82:G:H2'	37:DB:83:G:C8	2.35	0.61
38:DC:21:THR:HB	38:DC:228:SER:HB2	1.82	0.61
38:DC:98:GLU:O	38:DC:100:ILE:N	2.33	0.61
39:DD:27:THR:OG1	39:DD:83:GLU:HG2	2.00	0.61
40:DE:120:TRP:CG	40:DE:155:LYS:HE3	2.35	0.61
48:DP:55:ARG:O	48:DP:57:THR:N	2.32	0.61
50:DR:35:THR:HG23	50:DR:112:ALA:O	2.00	0.61
51:DS:56:LEU:C	51:DS:58:LEU:H	2.08	0.61
52:DT:52:ILE:HG12	52:DT:61:PHE:HB3	1.81	0.61
55:DW:1:MET:CG	55:DW:64:MET:HE3	2.30	0.61
58:DZ:19:ARG:NH1	58:DZ:84:GLU:C	2.58	0.61
1:AA:59:A:H1'	1:AA:354:G:C2	2.34	0.61
1:AA:190:U:O2'	1:AA:191:G:H5'	1.99	0.61
1:AA:359:U:H2'	1:AA:360:A:H8	1.65	0.61
1:AA:1005:A:OP2	1:AA:1006:C:N3	2.33	0.61
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.34	0.61
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.15	0.61
2:AB:80:ILE:HD12	2:AB:80:ILE:N	2.10	0.61
2:AB:134:GLU:HA	2:AB:137:ARG:HB2	1.82	0.61
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.81	0.61
13:AM:86:CYS:O	13:AM:89:GLY:N	2.25	0.61
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.30	0.61
30:B4:31:ILE:CG2	30:B4:33:VAL:HG23	2.29	0.61
34:B8:30:ARG:NH2	36:BA:2419:U:O4	2.33	0.61
36:BA:181:A:H2'	36:BA:182:A:O4'	1.99	0.61
36:BA:1188:U:O2'	36:BA:1189:A:H5'	2.00	0.61
36:BA:1258:C:O2'	36:BA:1259:G:H5'	1.99	0.61
36:BA:1654:A:H2	40:BE:113:PHE:CD2	2.18	0.61
36:BA:1826:G:H4'	39:BD:242:ARG:HE	1.65	0.61
36:BA:1866:C:H2'	36:BA:1876:A:O4'	2.00	0.61
36:BA:1882:C:H5'	36:BA:1883:G:OP2	1.99	0.61
36:BA:1902:C:H1'	39:BD:244:ARG:HE	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1907:G:O2'	36:BA:1908:C:H5'	1.99	0.61
36:BA:2007:C:H5'	36:BA:2824:C:C1'	2.30	0.61
36:BA:2537:U:H2'	36:BA:2538:C:H6	1.66	0.61
38:BC:195:ALA:O	38:BC:198:ALA:HB3	2.00	0.61
42:BG:165:THR:OG1	42:BG:168:GLU:HG3	1.99	0.61
47:BO:12:ASP:HA	47:BO:97:ARG:O	2.00	0.61
49:BQ:20:ALA:N	58:BZ:79:ARG:NH2	2.48	0.61
52:BT:98:LYS:CG	52:BT:100:TYR:HE1	2.12	0.61
58:BZ:20:ARG:HB2	58:BZ:20:ARG:NH1	2.15	0.61
1:CA:200:G:H1	1:CA:217:C:H42	1.46	0.61
1:CA:517:G:H5'	1:CA:519:C:O2	2.00	0.61
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.15	0.61
1:CA:1288:A:H1'	1:CA:1352:C:O2'	1.99	0.61
1:CA:1353:G:H2'	1:CA:1354:C:C6	2.34	0.61
2:CB:81:VAL:O	2:CB:82:ARG:C	2.42	0.61
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.28	0.61
4:CD:131:ARG:H	4:CD:131:ARG:CD	2.09	0.61
5:CE:26:PHE:CD1	5:CE:26:PHE:N	2.67	0.61
6:CF:24:GLU:CG	6:CF:28:ARG:HH12	2.12	0.61
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	1.82	0.61
13:CM:91:ARG:NH1	13:CM:96:LEU:HD13	2.15	0.61
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.82	0.61
23:CX:26:A:H2'	23:CX:26:A:N3	2.15	0.61
25:CZ:99:MET:N	25:CZ:241:ARG:NH2	2.48	0.61
26:D0:30:VAL:HA	26:D0:65:GLY:C	2.24	0.61
36:DA:328:U:H4'	57:DY:68:HIS:CD2	2.36	0.61
36:DA:445:C:H2'	36:DA:446:G:O4'	1.99	0.61
36:DA:959:A:O2'	36:DA:960:A:H5'	2.00	0.61
36:DA:1229:G:H2'	36:DA:1230:C:O4'	1.99	0.61
36:DA:1375:C:O2'	36:DA:1376:C:H5'	2.00	0.61
36:DA:1384:A:N3	36:DA:1405:U:H1'	2.16	0.61
36:DA:1605:C:C2'	36:DA:1606:G:H5'	2.30	0.61
36:DA:2101:G:H2'	36:DA:2102:U:C5'	2.30	0.61
36:DA:2176:A:H4'	38:DC:213:TYR:CD1	2.35	0.61
36:DA:2553:G:H2'	36:DA:2554:U:C4'	2.30	0.61
36:DA:2777:G:C4'	36:DA:2778:A:H5'	2.29	0.61
37:DB:8:U:H3	37:DB:113:G:H1	1.46	0.61
39:DD:81:ALA:HA	39:DD:113:VAL:HG21	1.83	0.61
41:DF:203:GLN:C	41:DF:205:ARG:H	2.07	0.61
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.15	0.61
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:74:TYR:HD1	49:DQ:75:THR:N	1.98	0.61
51:DS:29:PHE:HD2	51:DS:30:ARG:N	1.98	0.61
52:DT:16:ARG:HB2	52:DT:19:LEU:HD11	1.82	0.61
1:AA:355:C:H2'	1:AA:356:A:C8	2.30	0.61
1:AA:826:C:H2'	1:AA:827:U:H6	1.64	0.61
1:AA:1045:C:H2'	1:AA:1045:C:O2	1.99	0.61
1:AA:1320:C:H5''	19:AS:70:LYS:CG	2.29	0.61
2:AB:44:LEU:O	2:AB:47:THR:HB	2.00	0.61
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.66	0.61
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.30	0.61
22:AW:62:C:O2'	38:BC:53:ARG:HG2	2.00	0.61
36:BA:534:U:O2'	53:BU:49:HIS:CD2	2.52	0.61
36:BA:600:G:H2'	36:BA:601:C:C6	2.35	0.61
36:BA:695:G:OP1	36:BA:1380:G:C4'	2.46	0.61
36:BA:955:C:C2'	36:BA:956:G:H5'	2.30	0.61
36:BA:956:G:N2	36:BA:959:A:H3'	2.16	0.61
36:BA:1042:G:C2	36:BA:1043:C:H1'	2.35	0.61
36:BA:1278:A:C2	36:BA:1293:C:N3	2.69	0.61
36:BA:1652:A:C2'	36:BA:1653:G:H5'	2.30	0.61
36:BA:1702:G:H2'	36:BA:1703:G:O4'	2.00	0.61
36:BA:2121:G:H2'	36:BA:2122:U:C6	2.34	0.61
36:BA:2297:C:O2'	36:BA:2298:A:H5'	2.00	0.61
39:BD:241:PRO:O	39:BD:243:GLY:N	2.34	0.61
39:BD:245:PRO:O	39:BD:246:PRO:C	2.42	0.61
41:BF:203:GLN:C	41:BF:205:ARG:H	2.06	0.61
43:BH:97:ARG:HH21	43:BH:99:VAL:HG21	1.65	0.61
46:BN:39:ARG:C	46:BN:41:ASP:H	2.08	0.61
49:BQ:39:PRO:HD3	49:BQ:99:PRO:HG2	1.82	0.61
53:BU:65:ILE:HD11	53:BU:96:ALA:HB3	1.82	0.61
55:BW:14:PRO:HG3	55:BW:78:GLU:HB2	1.80	0.61
57:BY:9:LYS:CE	57:BY:94:LYS:HE2	2.29	0.61
57:BY:29:GLU:OE1	57:BY:29:GLU:N	2.33	0.61
1:CA:676:A:H5''	11:CK:113:PRO:HB2	1.81	0.61
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.00	0.61
1:CA:1147:C:H2'	9:CI:16:ARG:HD3	1.80	0.61
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.80	0.61
2:CB:204:ASN:ND2	2:CB:207:ALA:H	1.99	0.61
4:CD:61:LYS:HE2	4:CD:65:ARG:HE	1.65	0.61
13:CM:107:ALA:C	13:CM:109:THR:H	2.07	0.61
14:CN:59:ALA:HB1	14:CN:61:TRP:CZ3	2.33	0.61
16:CP:52:ASP:OD1	16:CP:55:ARG:HG3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:26:LEU:HB2	29:D3:28:LEU:HD21	1.82	0.61
34:D8:50:LEU:O	34:D8:53:PRO:HD2	2.00	0.61
35:D9:11:CYS:SG	60:D9:101:ZN:ZN	1.88	0.61
36:DA:39:C:H2'	36:DA:40:C:C6	2.35	0.61
36:DA:226:G:H1	36:DA:418:G:H21	1.46	0.61
36:DA:1652:A:C2'	36:DA:1653:G:H5'	2.30	0.61
36:DA:1817:G:C2'	36:DA:1818:U:H5'	2.30	0.61
36:DA:1826:G:C4'	39:DD:242:ARG:HH21	2.12	0.61
36:DA:2582:G:N3	36:DA:2582:G:H2'	2.15	0.61
37:DB:18:G:H2'	37:DB:19:G:C1'	2.30	0.61
38:DC:71:GLN:HE22	38:DC:157:LYS:HD3	1.63	0.61
39:DD:73:VAL:HG13	39:DD:120:GLY:HA2	1.81	0.61
42:DG:76:SER:HB3	42:DG:83:ARG:HB3	1.83	0.61
42:DG:133:LEU:CD1	42:DG:157:ILE:HB	2.30	0.61
43:DH:68:THR:HG22	43:DH:72:ILE:HG12	1.82	0.61
51:DS:78:LEU:HD11	51:DS:103:GLU:HB2	1.82	0.61
52:DT:53:ARG:HH11	52:DT:53:ARG:CB	2.13	0.61
55:DW:14:PRO:HG3	55:DW:78:GLU:HB2	1.82	0.61
56:DX:65:ARG:HG2	56:DX:65:ARG:HH11	1.65	0.61
57:DY:9:LYS:HE2	57:DY:94:LYS:HE2	1.81	0.61
58:DZ:109:ALA:HB3	58:DZ:144:LEU:O	2.01	0.61
1:AA:189(I):G:H2'	1:AA:189(J):G:C8	2.35	0.61
1:AA:200:G:H2'	1:AA:201:C:C6	2.35	0.61
1:AA:250:A:H5''	1:AA:251:G:OP1	2.01	0.61
1:AA:286:G:O2'	1:AA:287:U:H5'	2.00	0.61
1:AA:332:G:O2'	1:AA:333:G:H5'	2.00	0.61
1:AA:633:G:H5'	1:AA:634:C:OP2	1.99	0.61
1:AA:954:G:H4'	13:AM:120:LYS:CD	2.30	0.61
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.35	0.61
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.00	0.61
2:AB:222:ILE:O	2:AB:226:ARG:HB2	2.01	0.61
4:AD:85:LYS:HD3	4:AD:92:VAL:HG13	1.81	0.61
9:AI:108:VAL:HG12	9:AI:109:VAL:H	1.65	0.61
13:AM:107:ALA:C	13:AM:109:THR:H	2.07	0.61
19:AS:16:LEU:C	19:AS:18:LYS:H	2.08	0.61
22:AV:5:G:H2'	22:AV:6:G:C8	2.35	0.61
27:B1:64:ALA:O	27:B1:67:ILE:HG13	2.01	0.61
28:B2:27:GLU:O	28:B2:30:ARG:N	2.32	0.61
30:B4:10:VAL:HG23	30:B4:11:PRO:CD	2.29	0.61
31:B5:46:CYS:HB2	31:B5:47:PRO:HD2	1.82	0.61
36:BA:36:G:H4'	36:BA:451:C:C2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:110:G:O2'	36:BA:111:A:H5'	2.00	0.61
36:BA:588:U:H1'	41:BF:90:PHE:CG	2.35	0.61
36:BA:2101:G:H2'	36:BA:2102:U:C5'	2.30	0.61
36:BA:2620:C:H1'	40:BE:156:MET:HB2	1.83	0.61
40:BE:116:VAL:O	40:BE:117:MET:CB	2.48	0.61
43:BH:116:GLU:HG3	43:BH:117:PRO:HD2	1.81	0.61
50:BR:28:LEU:HD23	50:BR:29:LEU:N	2.15	0.61
52:BT:65:LYS:O	52:BT:72:VAL:HG23	2.00	0.61
52:BT:106:SER:O	52:BT:107:ASP:CB	2.48	0.61
1:CA:665:A:H2'	1:CA:725:G:N2	2.15	0.61
1:CA:1054:C:H6	1:CA:1196:U:C5	2.18	0.61
1:CA:1117:G:N2	1:CA:1180:A:H1'	2.14	0.61
1:CA:1354:C:H2'	1:CA:1355:G:O4'	2.00	0.61
4:CD:30:LYS:C	4:CD:32:ALA:N	2.43	0.61
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.30	0.61
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.48	0.61
16:CP:19:ILE:O	16:CP:36:ILE:HG13	2.01	0.61
17:CQ:10:VAL:HG23	17:CQ:55:ASP:O	2.00	0.61
19:CS:28:LYS:C	19:CS:29:ARG:HG3	2.26	0.61
32:D6:15:GLU:OE1	32:D6:18:ARG:NE	2.33	0.61
34:D8:13:ARG:HD2	48:DP:61:ARG:HD2	1.81	0.61
35:D9:14:CYS:HA	35:D9:26:ILE:O	2.00	0.61
36:DA:925:C:C3'	36:DA:926:A:H5''	2.29	0.61
36:DA:1190:G:H5'	48:DP:35:HIS:H	1.61	0.61
36:DA:1343:G:N2	36:DA:1405:U:C2	2.69	0.61
36:DA:1465:G:H5'	36:DA:1528:A:C8	2.35	0.61
36:DA:2772:C:H5'	40:DE:168:MET:HE3	1.81	0.61
38:DC:40:THR:HG22	38:DC:176:GLY:O	2.01	0.61
39:DD:112:GLN:H	39:DD:115:GLN:HE22	1.45	0.61
41:DF:24:LEU:CB	41:DF:25:PRO:CD	2.77	0.61
41:DF:43:LYS:HB3	41:DF:98:SER:HB2	1.81	0.61
42:DG:63:ILE:HG13	42:DG:64:THR:N	2.14	0.61
43:DH:169:VAL:O	43:DH:171:LEU:N	2.34	0.61
46:DN:33:LEU:HD12	46:DN:33:LEU:N	2.16	0.61
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.63	0.61
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	1.82	0.61
49:DQ:75:THR:HG21	49:DQ:87:LYS:NZ	2.15	0.61
49:DQ:96:VAL:O	49:DQ:96:VAL:HG12	2.01	0.61
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.66	0.61
55:DW:59:VAL:O	55:DW:63:ASP:N	2.29	0.61
58:DZ:10:ARG:CB	58:DZ:36:LYS:HB2	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:81:ARG:CZ	58:DZ:81:ARG:CB	2.79	0.61
1:AA:758:G:O5'	1:AA:758:G:H8	1.84	0.61
1:AA:886:G:H2'	1:AA:887:G:O4'	2.00	0.61
2:AB:75:LYS:C	2:AB:77:ALA:H	2.07	0.61
2:AB:87:ARG:HH21	2:AB:233:SER:HB3	1.65	0.61
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.30	0.61
6:AF:24:GLU:CG	6:AF:28:ARG:HH12	2.13	0.61
11:AK:110:ASP:HB3	18:AR:85:LEU:HD23	1.81	0.61
12:AL:119:LYS:O	12:AL:120:TYR:CG	2.53	0.61
20:AT:63:ILE:HG22	20:AT:77:ALA:HB1	1.82	0.61
32:B6:15:GLU:O	32:B6:16:CYS:C	2.43	0.61
36:BA:45:C:H42	36:BA:179:G:H1	1.49	0.61
36:BA:384:U:H2'	36:BA:385:C:H6	1.66	0.61
36:BA:697:C:O2'	36:BA:698:C:H5'	2.00	0.61
36:BA:1093:G:H4'	43:BH:170:ARG:NH1	2.15	0.61
36:BA:1515:G:H4'	36:BA:1556:C:O2'	1.99	0.61
36:BA:1519:G:H5'	36:BA:1520:G:OP2	2.01	0.61
39:BD:81:ALA:HA	39:BD:113:VAL:HG22	1.82	0.61
46:BN:35:ARG:HH21	46:BN:42:TRP:HH2	1.47	0.61
56:BX:29:TRP:CZ3	56:BX:78:LYS:HD2	2.35	0.61
58:BZ:57:ILE:HD12	58:BZ:57:ILE:N	2.15	0.61
1:CA:41:G:H2'	1:CA:42:G:H8	1.64	0.61
1:CA:849:C:H2'	1:CA:850:U:O4'	1.99	0.61
1:CA:947:G:H2'	1:CA:948:C:C6	2.35	0.61
1:CA:1181:G:O2'	1:CA:1182:G:H5'	2.00	0.61
59:CA:1601:PAR:H43	59:CA:1601:PAR:H642	1.81	0.61
2:CB:32:ILE:HG12	2:CB:33:TYR:N	2.16	0.61
4:CD:25:ARG:C	4:CD:27:TYR:H	2.06	0.61
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.28	0.61
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.01	0.61
8:CH:2:LEU:HD22	8:CH:3:THR:H	1.65	0.61
17:CQ:29:HIS:CG	17:CQ:30:PRO:HD2	2.35	0.61
25:CZ:263:ARG:HB2	25:CZ:263:ARG:CZ	2.31	0.61
32:D6:26:ASN:O	32:D6:27:LYS:HB2	2.01	0.61
34:D8:28:GLY:CA	34:D8:32:LEU:HD23	2.31	0.61
34:D8:62:LEU:CD1	36:DA:242:G:H3'	2.28	0.61
35:D9:1:MET:SD	36:DA:2477:C:C2'	2.88	0.61
35:D9:1:MET:SD	36:DA:2477:C:H3'	2.40	0.61
35:D9:30:PRO:C	35:D9:32:HIS:H	2.08	0.61
36:DA:428:A:H3'	36:DA:429:A:H8	1.65	0.61
36:DA:869:G:O2'	36:DA:870:A:H5'	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:944:G:H5'	36:DA:945:A:O5'	2.00	0.61
36:DA:1242:A:H3'	36:DA:1243:G:H8	1.65	0.61
36:DA:1269:A:H61	36:DA:2011:U:H3	1.46	0.61
36:DA:1328:G:C2	36:DA:1647:G:N2	2.68	0.61
36:DA:1496:A:H8	36:DA:1577:C:O2'	1.83	0.61
36:DA:1550:C:H2'	36:DA:1551:C:C6	2.36	0.61
36:DA:1654:A:H2	40:DE:113:PHE:CD2	2.19	0.61
36:DA:1902:C:H1'	39:DD:244:ARG:NE	2.16	0.61
36:DA:2689:U:H4'	36:DA:2690:C:H6	1.64	0.61
37:DB:105:A:H4'	58:DZ:89:PHE:CE2	2.36	0.61
39:DD:24:ILE:HD13	39:DD:25:THR:N	2.14	0.61
39:DD:45:ASN:CG	39:DD:46:GLN:H	2.07	0.61
39:DD:224:ALA:HB2	39:DD:233:HIS:CB	2.23	0.61
42:DG:32:PRO:CA	42:DG:162:THR:HB	2.31	0.61
42:DG:114:ILE:O	42:DG:114:ILE:CG2	2.47	0.61
43:DH:19:VAL:HG12	43:DH:20:ALA:H	1.65	0.61
43:DH:116:GLU:HG3	43:DH:117:PRO:HD2	1.82	0.61
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.81	0.61
47:DO:71:ARG:HB3	47:DO:72:PRO:HD2	1.82	0.61
48:DP:71:VAL:HG13	48:DP:72:PRO:HD3	1.82	0.61
49:DQ:141:GLN:O	58:DZ:53:ILE:HB	2.01	0.61
52:DT:11:GLU:C	52:DT:13:ARG:H	2.07	0.61
52:DT:75:ILE:HD12	52:DT:75:ILE:N	2.16	0.61
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.35	0.61
54:DV:19:LYS:HB2	54:DV:96:ILE:HD11	1.81	0.61
58:DZ:12:GLY:HA3	58:DZ:36:LYS:NZ	2.15	0.61
1:AA:44:G:OP2	16:AP:12:LYS:HE3	2.00	0.61
1:AA:194:C:O2'	1:AA:195:A:H4'	2.01	0.61
1:AA:523:A:N6	12:AL:53:ARG:HH12	1.98	0.61
2:AB:32:ILE:HG12	2:AB:33:TYR:N	2.16	0.61
2:AB:82:ARG:O	2:AB:86:GLU:HG3	1.99	0.61
3:AC:68:VAL:HG12	3:AC:70:VAL:HG23	1.81	0.61
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.66	0.61
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.82	0.61
19:AS:6:LYS:HD2	19:AS:6:LYS:N	2.16	0.61
22:AW:53:G:N2	22:AW:62:C:N4	2.48	0.61
32:B6:45:LYS:O	32:B6:46:HIS:HB3	1.99	0.61
35:B9:14:CYS:HA	35:B9:26:ILE:O	2.00	0.61
36:BA:21:A:O2'	36:BA:22:C:H5'	2.01	0.61
36:BA:36:G:O2'	36:BA:37:C:H5'	2.01	0.61
36:BA:654(E):G:O2'	36:BA:654(F):C:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:654(J):A:C8	36:BA:654(L):G:H8	2.18	0.61
36:BA:1824:G:H5''	39:BD:52:ARG:HH11	1.66	0.61
36:BA:1999:C:H5''	36:BA:2723:C:O2'	2.00	0.61
36:BA:2302:G:H3'	36:BA:2303:G:C8	2.32	0.61
36:BA:2482:G:N2	49:BQ:52:VAL:HG11	2.12	0.61
37:BB:18:G:H2'	37:BB:19:G:C1'	2.30	0.61
38:BC:45:ALA:O	38:BC:171:ILE:HG22	2.00	0.61
38:BC:100:ILE:HG23	38:BC:127:LEU:CD1	2.30	0.61
39:BD:130:ALA:HB2	39:BD:192:THR:HB	1.83	0.61
49:BQ:79:LEU:CD2	49:BQ:80:GLU:HG3	2.31	0.61
50:BR:57:ARG:O	50:BR:59:ASP:N	2.33	0.61
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.16	0.61
52:BT:52:ILE:HG12	52:BT:61:PHE:CB	2.30	0.61
54:BV:14:VAL:HB	54:BV:96:ILE:HG21	1.83	0.61
1:CA:167:G:H2'	1:CA:168:G:C8	2.35	0.61
1:CA:1128:C:H2'	1:CA:1139:G:O6	2.00	0.61
2:CB:132:LYS:HA	2:CB:135:GLN:HB2	1.82	0.61
5:CE:100:VAL:CG2	5:CE:107:ARG:HH21	2.09	0.61
7:CG:121:ALA:O	7:CG:124:LEU:N	2.34	0.61
10:CJ:65:LEU:HD22	14:CN:56:VAL:HG22	1.82	0.61
16:CP:8:ARG:HG2	16:CP:8:ARG:HH11	1.66	0.61
18:CR:79:LEU:HD23	18:CR:80:PRO:HD2	1.81	0.61
20:CT:100:ILE:O	20:CT:100:ILE:HG22	2.00	0.61
22:CV:51:U:H2'	22:CV:52:G:C8	2.35	0.61
24:CY:24:G:H2'	24:CY:25:C:C6	2.36	0.61
25:CZ:286:VAL:CG2	25:CZ:287:GLY:N	2.63	0.61
28:D2:53:LEU:CA	28:D2:56:GLN:HB2	2.31	0.61
35:D9:10:ILE:O	35:D9:11:CYS:SG	2.58	0.61
36:DA:1541:G:H4'	36:DA:1542:A:O5'	2.01	0.61
36:DA:1994:C:O2'	36:DA:1995:U:H5'	1.99	0.61
36:DA:2131:G:H4'	36:DA:2132:U:OP2	2.00	0.61
36:DA:2189:U:H2'	36:DA:2190:G:H4'	1.82	0.61
39:DD:243:GLY:O	39:DD:244:ARG:HB3	2.01	0.61
41:DF:36:VAL:O	41:DF:39:TRP:HB3	2.01	0.61
42:DG:42:GLY:HA2	42:DG:89:GLY:HA2	1.82	0.61
42:DG:100:TRP:O	42:DG:102:PHE:N	2.34	0.61
42:DG:167:GLU:O	42:DG:170:ARG:HB3	2.01	0.61
43:DH:61:HIS:O	43:DH:63:SER:N	2.33	0.61
48:DP:30:THR:HG22	48:DP:31:ALA:N	2.14	0.61
49:DQ:51:ARG:O	49:DQ:55:VAL:HG12	1.99	0.61
50:DR:45:ARG:O	50:DR:46:GLY:C	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:36:TYR:HD1	51:DS:36:TYR:H	1.48	0.61
57:DY:81:LYS:HG2	57:DY:96:ILE:HB	1.81	0.61
57:DY:86:ARG:HD2	57:DY:88:LYS:HE3	1.83	0.61
1:AA:55:A:H2'	25:AZ:232:THR:CG2	2.30	0.61
1:AA:728:A:H2'	1:AA:729:A:C8	2.35	0.61
1:AA:1054:C:N4	24:AY:34:G:O2'	2.32	0.61
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.00	0.61
2:AB:109:SER:O	2:AB:110:GLN:C	2.44	0.61
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.11	0.61
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.01	0.61
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.66	0.61
20:AT:38:LYS:O	20:AT:42:GLN:HB2	2.01	0.61
22:AW:17:C:N4	36:BA:2110:G:N2	2.44	0.61
30:B4:46:GLN:HG3	30:B4:47:GLN:N	2.14	0.61
36:BA:444:C:OP2	41:BF:49:ALA:HB2	2.00	0.61
36:BA:874:G:H2'	36:BA:875:G:H8	1.64	0.61
36:BA:1458:C:H4'	36:BA:1459:G:C5'	2.29	0.61
36:BA:2043:C:H42	36:BA:2625:G:H1	1.48	0.61
36:BA:2199:A:H3'	36:BA:2200:C:H6	1.65	0.61
36:BA:2733:A:O2'	36:BA:2734:A:H5'	2.01	0.61
36:BA:2772:C:H5'	40:BE:168:MET:HE3	1.83	0.61
36:BA:2811:G:P	40:BE:60:ASN:HB2	2.41	0.61
48:BP:39:LYS:CE	48:BP:42:SER:HB3	2.30	0.61
48:BP:79:ARG:O	48:BP:110:TYR:HB3	1.99	0.61
51:BS:36:TYR:HD1	51:BS:36:TYR:H	1.49	0.61
58:BZ:165:VAL:CG1	58:BZ:166:SER:N	2.60	0.61
1:CA:15:G:H4'	5:CE:24:ARG:HH21	1.65	0.61
1:CA:125:U:H2'	1:CA:126:G:H8	1.66	0.61
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.31	0.61
1:CA:1145:C:H1'	1:CA:1146:A:C8	2.35	0.61
1:CA:1255:G:H21	1:CA:1258:G:N2	1.97	0.61
3:CC:122:GLU:O	3:CC:125:GLU:N	2.33	0.61
5:CE:142:LEU:O	5:CE:143:ARG:HD3	2.00	0.61
17:CQ:26:GLN:O	17:CQ:27:PHE:HB3	1.99	0.61
17:CQ:52:LYS:HD2	17:CQ:52:LYS:H	1.66	0.61
25:CZ:149:LEU:O	25:CZ:149:LEU:HD12	2.01	0.61
30:D4:5:ILE:HD13	30:D4:5:ILE:H	1.66	0.61
32:D6:8:LYS:O	32:D6:27:LYS:HA	2.00	0.61
32:D6:15:GLU:O	32:D6:16:CYS:C	2.43	0.61
34:D8:30:ARG:O	34:D8:31:HIS:HB3	2.00	0.61
36:DA:201:C:H2'	36:DA:202:U:H5'	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:547:A:H2'	36:DA:548:A:C8	2.36	0.61
36:DA:1812:A:C1'	39:DD:46:GLN:HE22	2.14	0.61
36:DA:2043:C:H42	36:DA:2625:G:H1	1.48	0.61
36:DA:2123:G:H1'	38:DC:172:HIS:HB3	1.83	0.61
42:DG:140:ILE:C	42:DG:140:ILE:HD12	2.26	0.61
50:DR:77:ARG:C	50:DR:79:LEU:H	2.09	0.61
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.01	0.61
1:AA:319:G:O2'	1:AA:320:C:H5'	2.00	0.61
1:AA:1148:U:H4'	9:AI:14:VAL:HG11	1.81	0.61
1:AA:1475:G:H4'	36:BA:1689:A:H4'	1.82	0.61
2:AB:132:LYS:HA	2:AB:135:GLN:HB2	1.82	0.61
3:AC:187:ALA:HB3	3:AC:198:VAL:HB	1.83	0.61
4:AD:91:SER:O	4:AD:92:VAL:C	2.43	0.61
7:AG:69:VAL:HA	7:AG:138:LYS:CD	2.24	0.61
9:AI:48:GLU:HB3	9:AI:101:PHE:HE2	1.65	0.61
12:AL:41:ARG:HH12	12:AL:57:LYS:NZ	1.98	0.61
12:AL:51:ALA:C	12:AL:52:LEU:HD23	2.24	0.61
13:AM:15:VAL:HG23	13:AM:16:ASP:H	1.66	0.61
34:B8:35:GLN:O	34:B8:36:LYS:HG3	2.01	0.61
36:BA:6:A:H2'	36:BA:7:G:C8	2.36	0.61
36:BA:549:G:O2'	36:BA:551:G:H5'	1.99	0.61
36:BA:1826:G:H4'	39:BD:242:ARG:HH21	1.64	0.61
36:BA:2048:G:H1	36:BA:2620:C:N4	1.98	0.61
36:BA:2087:G:O2'	36:BA:2088:G:H5'	2.00	0.61
36:BA:2131:G:O4'	36:BA:2133:G:N2	2.31	0.61
36:BA:2263:C:O2'	36:BA:2264:C:H5'	2.00	0.61
38:BC:196:LEU:O	38:BC:197:GLU:C	2.44	0.61
38:BC:206:GLY:HA3	38:BC:210:ARG:NH2	2.11	0.61
51:BS:69:VAL:O	51:BS:73:LEU:HB2	2.01	0.61
55:BW:72:LYS:O	55:BW:73:ALA:HB2	2.01	0.61
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ2	1.66	0.61
1:CA:106:C:C2'	1:CA:107:G:H5'	2.30	0.61
1:CA:522:C:H2'	1:CA:523:A:C8	2.35	0.61
1:CA:592:G:H2'	1:CA:593:G:H8	1.66	0.61
1:CA:1348:U:H4'	9:CI:120:ARG:CD	2.28	0.61
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.82	0.61
3:CC:120:VAL:HG13	3:CC:124:ILE:HD11	1.82	0.61
8:CH:9:MET:HE3	8:CH:36:LEU:HD21	1.81	0.61
9:CI:43:ALA:C	9:CI:45:ALA:N	2.55	0.61
12:CL:90:VAL:HG22	12:CL:99:HIS:CE1	2.35	0.61
25:CZ:321:TYR:CE2	25:CZ:323:LEU:HD12	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:5:CYS:CB	27:D1:8:SER:HG	2.13	0.61
30:D4:20:ASN:HD22	30:D4:20:ASN:C	2.09	0.61
31:D5:16:ARG:NH1	31:D5:20:ARG:NH1	2.49	0.61
32:D6:12:GLU:HG2	32:D6:54:ILE:HG21	1.81	0.61
33:D7:10:ARG:O	33:D7:11:LYS:C	2.43	0.61
34:D8:3:LYS:HD3	36:DA:242:G:C5'	2.31	0.61
36:DA:955:C:H2'	36:DA:956:G:H5'	1.83	0.61
36:DA:1099:G:H2'	36:DA:1100:C:H6	1.65	0.61
36:DA:2562:U:H2'	36:DA:2563:U:H5'	1.82	0.61
36:DA:2756:U:H4'	36:DA:2757:A:O5'	2.00	0.61
36:DA:2801(A):A:C4'	36:DA:2802:G:H5'	2.31	0.61
37:DB:5:C:H2'	37:DB:6:C:H6	1.66	0.61
38:DC:113:VAL:HG21	38:DC:136:LEU:HB3	1.83	0.61
41:DF:195:ASP:HB3	41:DF:198:ALA:HB3	1.83	0.61
54:DV:14:VAL:HB	54:DV:96:ILE:HG21	1.82	0.61
55:DW:2:GLU:HA	55:DW:64:MET:HE1	1.81	0.61
1:AA:16:A:N1	1:AA:919:A:H2	1.99	0.61
1:AA:687:A:H1'	1:AA:688:G:OP2	2.01	0.61
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.65	0.61
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.00	0.61
1:AA:1239:A:N6	1:AA:1299:A:N6	2.48	0.61
1:AA:1312:G:H2'	1:AA:1313:U:H6	1.66	0.61
5:AE:50:GLU:HA	5:AE:50:GLU:OE2	2.00	0.61
8:AH:30:ARG:HH11	8:AH:30:ARG:CB	2.13	0.61
12:AL:55:VAL:HG23	12:AL:68:ALA:C	2.26	0.61
14:AN:3:ARG:O	14:AN:3:ARG:HG2	2.01	0.61
24:AY:6:U:C3'	24:AY:7:A:H5''	2.31	0.61
25:AZ:99:MET:N	25:AZ:241:ARG:NH2	2.48	0.61
28:B2:30:ARG:HA	56:BX:5:TYR:CD2	2.36	0.61
31:B5:43:HIS:HE1	36:BA:2816:C:H1'	1.65	0.61
32:B6:8:LYS:HA	32:B6:27:LYS:HD3	1.81	0.61
36:BA:39:C:H2'	36:BA:40:C:C6	2.35	0.61
36:BA:205:G:H1'	36:BA:206:U:H5	1.66	0.61
36:BA:483:A:O3'	57:BY:49:VAL:HG22	2.01	0.61
36:BA:848:G:N3	36:BA:933:A:H1'	2.15	0.61
36:BA:1779:U:C5	36:BA:1784:A:N7	2.69	0.61
36:BA:2248:C:C2'	36:BA:2249:U:H5'	2.30	0.61
36:BA:2275:C:OP1	36:BA:2275:C:H6	1.83	0.61
36:BA:2892:A:N6	36:BA:2893:G:H21	1.89	0.61
40:BE:31:CYS:HB2	40:BE:49:LEU:HD12	1.83	0.61
42:BG:131:TYR:HB3	42:BG:159:VAL:CG1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	2.00	0.61
49:BQ:37:LEU:HD21	49:BQ:129:THR:C	2.25	0.61
50:BR:83:ILE:HA	50:BR:86:ARG:HD3	1.81	0.61
53:BU:102:GLU:CB	53:BU:105:VAL:HB	2.31	0.61
54:BV:18:LEU:HD23	54:BV:19:LYS:N	2.16	0.61
58:BZ:144:LEU:N	58:BZ:144:LEU:HD22	2.15	0.61
1:CA:739:C:O2'	1:CA:740:U:H5'	2.01	0.61
1:CA:968:A:O2'	1:CA:969:A:OP1	2.19	0.61
1:CA:1152:A:H5''	10:CJ:13:HIS:HB2	1.83	0.61
1:CA:1356:G:O2'	1:CA:1357:A:H5'	2.01	0.61
2:CB:166:ASP:O	2:CB:169:LYS:HB2	2.00	0.61
4:CD:162:LEU:HD13	4:CD:162:LEU:O	1.99	0.61
7:CG:28:ASN:O	7:CG:31:MET:HB3	2.00	0.61
10:CJ:54:PHE:C	10:CJ:55:LYS:CE	2.67	0.61
11:CK:41:THR:HG21	11:CK:72:ALA:HA	1.82	0.61
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.26	0.61
19:CS:63:THR:CG2	19:CS:66:MET:HG2	2.31	0.61
25:CZ:19:HIS:HD2	25:CZ:115:GLN:H	1.47	0.61
25:CZ:137:LYS:HE2	62:CZ:501:GDP:C4	2.36	0.61
25:CZ:188:THR:HG23	25:CZ:192:GLU:OE2	2.01	0.61
27:D1:62:VAL:HG21	27:D1:67:ILE:CA	2.14	0.61
36:DA:442:G:N3	41:DF:48:THR:HG21	2.16	0.61
36:DA:564:C:O2'	36:DA:565:C:H5'	2.00	0.61
36:DA:774:A:H2	36:DA:787:U:O2'	1.83	0.61
36:DA:819:A:H2'	36:DA:820:A:C5'	2.31	0.61
36:DA:958:U:O4	49:DQ:17:LEU:HD21	2.01	0.61
36:DA:2302:G:H3'	36:DA:2303:G:C8	2.33	0.61
36:DA:2476:A:H2	36:DA:2477:C:C5	2.18	0.61
36:DA:2787:C:H2'	36:DA:2787:C:O2	2.00	0.61
40:DE:23:VAL:HA	40:DE:184:VAL:O	2.01	0.61
40:DE:34:VAL:O	40:DE:34:VAL:HG22	1.99	0.61
50:DR:28:LEU:HD23	50:DR:28:LEU:C	2.25	0.61
53:DU:66:ASN:HB2	53:DU:76:TYR:HB2	1.83	0.61
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.15	0.61
55:DW:72:LYS:O	55:DW:73:ALA:HB2	2.01	0.61
58:DZ:7:ALA:C	58:DZ:8:TYR:CD1	2.78	0.61
58:DZ:165:VAL:HG12	58:DZ:167:PRO:HA	1.81	0.61
1:AA:106:C:O2'	1:AA:107:G:H5'	1.99	0.61
1:AA:708:C:O2'	1:AA:709:G:H5'	2.01	0.61
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.35	0.61
1:AA:1354:C:H2'	1:AA:1355:G:O4'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.30	0.61
1:AA:1470:G:C2'	1:AA:1471:G:H8	1.99	0.61
8:AH:34:GLU:O	8:AH:35:ILE:C	2.43	0.61
25:AZ:137:LYS:HA	62:AZ:501:GDP:N1	2.16	0.61
26:B0:48:GLY:H	26:B0:51:VAL:HB	1.65	0.61
32:B6:14:THR:O	32:B6:49:HIS:HA	2.00	0.61
36:BA:203:C:C3'	36:BA:204:A:H5''	2.28	0.61
36:BA:619:G:H3'	36:BA:620:G:N2	2.15	0.61
36:BA:795:C:H2'	36:BA:796:C:H6	1.64	0.61
36:BA:907:U:OP1	49:BQ:24:GLY:N	2.33	0.61
36:BA:1343:G:C2'	36:BA:1344:G:H5'	2.30	0.61
36:BA:2529:G:H5''	36:BA:2530:A:H5''	1.82	0.61
36:BA:2579:C:O2'	40:BE:131:ALA:HB2	2.01	0.61
36:BA:2724:C:H2'	36:BA:2725:A:C8	2.36	0.61
38:BC:47:LEU:HD11	38:BC:171:ILE:HG22	1.83	0.61
41:BF:42:ALA:C	41:BF:44:ARG:H	2.09	0.61
46:BN:65:LYS:HB3	46:BN:65:LYS:NZ	2.16	0.61
47:BO:7:TYR:HA	47:BO:19:ILE:O	2.01	0.61
48:BP:30:THR:HG22	48:BP:31:ALA:N	2.14	0.61
52:BT:10:VAL:C	52:BT:12:SER:N	2.52	0.61
53:BU:88:ILE:C	53:BU:90:VAL:N	2.58	0.61
54:BV:99:ILE:HD13	54:BV:99:ILE:N	2.16	0.61
56:BX:11:PRO:HG2	56:BX:13:LEU:CG	2.31	0.61
58:BZ:10:ARG:HG2	58:BZ:12:GLY:H	1.66	0.61
1:CA:194:C:O2'	1:CA:195:A:H4'	2.01	0.61
1:CA:452:A:HO2'	1:CA:453:A:H8	1.49	0.61
1:CA:1239:A:N6	1:CA:1299:A:N6	2.47	0.61
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.16	0.61
2:CB:189:ASP:HB3	2:CB:203:GLY:O	2.01	0.61
4:CD:121:VAL:HG12	4:CD:134:ASP:C	2.25	0.61
4:CD:131:ARG:HD3	4:CD:131:ARG:N	2.10	0.61
7:CG:42:ILE:HG23	7:CG:117:ALA:CA	2.29	0.61
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.30	0.61
11:CK:38:ASN:N	11:CK:38:ASN:ND2	2.43	0.61
16:CP:20:VAL:HA	16:CP:36:ILE:CG1	2.31	0.61
19:CS:52:TYR:O	19:CS:53:ASN:HB3	2.01	0.61
24:CY:13:C:O2'	24:CY:14:A:H5''	2.00	0.61
25:CZ:355:LEU:HD22	25:CZ:359:VAL:CB	2.29	0.61
27:D1:25:LYS:HD2	36:DA:388:G:C4'	2.27	0.61
36:DA:329:G:N2	57:DY:19:LYS:HE3	2.15	0.61
36:DA:344:G:H3'	36:DA:344:G:OP2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:464:U:O2'	36:DA:465:G:H5'	2.01	0.61
36:DA:496:G:C1'	55:DW:61:ASN:HD22	2.13	0.61
36:DA:744:G:OP1	40:DE:132:HIS:HB3	2.01	0.61
36:DA:1199:U:H2'	36:DA:1200:C:C6	2.35	0.61
36:DA:1223:G:N2	36:DA:1225:G:H3'	2.16	0.61
36:DA:1345:C:C2'	36:DA:1346:G:H5'	2.31	0.61
36:DA:1845:G:O2'	36:DA:1846:G:H5'	2.01	0.61
36:DA:2297:C:O2'	36:DA:2298:A:H5'	2.00	0.61
36:DA:2360:A:O2'	36:DA:2361:A:O4'	2.19	0.61
36:DA:2475:C:H2'	36:DA:2477:C:OP1	2.01	0.61
38:DC:75:LEU:HB3	38:DC:93:TYR:HD2	1.66	0.61
41:DF:45:ARG:CZ	41:DF:97:TYR:CE1	2.84	0.61
42:DG:131:TYR:HB3	42:DG:159:VAL:HG12	1.81	0.61
55:DW:12:ILE:CG1	55:DW:42:ARG:HH12	2.13	0.61
58:DZ:73:GLN:H	58:DZ:87:ASP:HB2	1.66	0.61
1:AA:669:U:H2'	1:AA:670:G:H8	1.65	0.60
1:AA:946:A:H2'	1:AA:947:G:C8	2.37	0.60
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.82	0.60
2:AB:112:VAL:O	2:AB:115:LEU:N	2.33	0.60
2:AB:121:LEU:O	2:AB:122:PHE:C	2.43	0.60
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.83	0.60
7:AG:5:ARG:O	7:AG:7:ALA:N	2.34	0.60
7:AG:69:VAL:CG1	7:AG:104:LEU:HD21	2.25	0.60
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.00	0.60
16:AP:19:ILE:O	16:AP:36:ILE:HG13	2.01	0.60
25:AZ:171:ILE:CG1	25:AZ:201:GLU:HB3	2.29	0.60
27:B1:41:ARG:NH1	36:BA:1365:A:O4'	2.26	0.60
36:BA:198:C:H5'	36:BA:2244:U:OP1	2.01	0.60
36:BA:479:A:O2'	36:BA:481:G:H5'	2.00	0.60
36:BA:572:A:H5'	54:BV:78:LYS:NZ	2.15	0.60
36:BA:1012:U:C5	46:BN:28:THR:HG21	2.36	0.60
36:BA:1038:C:H3'	36:BA:1039:G:H5''	1.82	0.60
36:BA:1224:C:O2'	54:BV:85:LYS:HA	2.00	0.60
36:BA:1431:U:C2'	36:BA:1432:C:H5'	2.31	0.60
36:BA:1909:C:H42	36:BA:1921:G:H1	1.49	0.60
36:BA:2230:G:H2'	36:BA:2231:C:C6	2.36	0.60
36:BA:2570:G:H2'	36:BA:2571:C:C6	2.36	0.60
36:BA:2627:G:O2'	36:BA:2781:A:N1	2.29	0.60
36:BA:2675:A:H5'	47:BO:31:LYS:NZ	2.16	0.60
36:BA:2715:C:H2'	36:BA:2716:U:C6	2.36	0.60
36:BA:2773:C:O3'	40:BE:164:ARG:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2807:G:H3'	36:BA:2808:U:C5'	2.22	0.60
39:BD:95:LEU:HD12	39:BD:103:ARG:O	2.00	0.60
41:BF:43:LYS:HB3	41:BF:98:SER:HB2	1.81	0.60
42:BG:41:GLN:HB3	42:BG:43:LEU:HD21	1.83	0.60
43:BH:12:PRO:O	43:BH:15:VAL:HG22	2.01	0.60
43:BH:169:VAL:O	43:BH:171:LEU:N	2.34	0.60
49:BQ:19:GLY:HA2	58:BZ:79:ARG:NH2	2.16	0.60
49:BQ:37:LEU:HD23	49:BQ:37:LEU:N	2.16	0.60
53:BU:92:ARG:O	53:BU:93:LYS:C	2.44	0.60
56:BX:12:VAL:HG12	56:BX:27:THR:O	2.01	0.60
1:CA:473:G:H5''	16:CP:81:ARG:NE	2.17	0.60
1:CA:773:G:H1	1:CA:806:C:H42	1.47	0.60
1:CA:925:G:H1	1:CA:1391:U:H3	1.48	0.60
1:CA:954:G:H4'	13:CM:120:LYS:CD	2.30	0.60
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.65	0.60
1:CA:1372:U:H5''	9:CI:71:SER:CB	2.31	0.60
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.36	0.60
1:CA:1406:U:H2'	1:CA:1407:C:H6	1.65	0.60
1:CA:1426:C:N3	1:CA:1475:G:C6	2.69	0.60
2:CB:112:VAL:O	2:CB:115:LEU:N	2.33	0.60
10:CJ:65:LEU:HD22	14:CN:56:VAL:CG2	2.31	0.60
15:CO:12:ILE:HG22	15:CO:13:GLN:N	2.15	0.60
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.00	0.60
25:CZ:222:LEU:O	25:CZ:223:MET:HB3	2.01	0.60
25:CZ:316:PHE:O	25:CZ:371:THR:HG23	2.01	0.60
28:D2:54:LYS:HZ1	36:DA:60:G:H5''	1.66	0.60
31:D5:5:PRO:HA	36:DA:2056:G:N2	2.15	0.60
36:DA:757:U:H2'	36:DA:758:C:O4'	2.01	0.60
36:DA:1141:U:H2'	46:DN:63:THR:HG21	1.83	0.60
36:DA:1202:C:C2'	36:DA:1203:G:H5'	2.30	0.60
36:DA:1403:C:H5''	36:DA:1471:A:C1'	2.31	0.60
36:DA:1431:U:C2'	36:DA:1432:C:H5'	2.30	0.60
36:DA:1640:C:O2'	36:DA:1641:A:H5'	2.01	0.60
36:DA:1709:U:H2'	36:DA:1710:C:C6	2.36	0.60
36:DA:1747(A):G:H2'	36:DA:1748:G:H5''	1.81	0.60
36:DA:2092:U:H4'	36:DA:2093:G:H5''	1.81	0.60
36:DA:2110:G:H22	36:DA:2178:C:N4	1.96	0.60
36:DA:2375:G:N3	36:DA:2379:G:N2	2.48	0.60
36:DA:2403:C:N4	36:DA:2414:G:H1	1.96	0.60
36:DA:2629:A:N3	36:DA:2629:A:H2'	2.16	0.60
40:DE:81:ILE:O	40:DE:81:ILE:HG22	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:132:HIS:HA	40:DE:135:HIS:HE1	1.63	0.60
41:DF:61:GLY:HA2	41:DF:77:ASP:HB3	1.83	0.60
42:DG:120:LEU:HD12	42:DG:179:PRO:HD2	1.81	0.60
43:DH:86:GLU:OE1	43:DH:165:ALA:HB2	2.00	0.60
46:DN:39:ARG:C	46:DN:41:ASP:H	2.08	0.60
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.31	0.60
57:DY:29:GLU:OE1	57:DY:29:GLU:N	2.34	0.60
1:AA:346:G:H5'	52:BT:41:ARG:NH2	2.16	0.60
1:AA:640:A:N3	8:AH:115:SER:HB3	2.16	0.60
1:AA:925:G:H1	1:AA:1391:U:H3	1.48	0.60
2:AB:7:VAL:CG1	2:AB:11:LEU:HD11	2.30	0.60
3:AC:64:VAL:CG1	3:AC:66:VAL:HG23	2.30	0.60
5:AE:64:ARG:O	5:AE:66:MET:N	2.32	0.60
6:AF:14:LEU:HD13	6:AF:15:ASP:H	1.65	0.60
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	1.83	0.60
11:AK:13:GLN:HG2	11:AK:75:TYR:O	2.01	0.60
18:AR:79:LEU:HD23	18:AR:80:PRO:HD2	1.83	0.60
20:AT:100:ILE:HG22	20:AT:100:ILE:O	2.01	0.60
28:B2:13:ALA:O	28:B2:16:LEU:HB2	2.01	0.60
32:B6:12:GLU:HG2	32:B6:54:ILE:HG21	1.81	0.60
33:B7:19:ARG:HD3	36:BA:125:G:O5'	2.02	0.60
34:B8:30:ARG:O	34:B8:31:HIS:HB3	2.01	0.60
36:BA:391:G:H8	36:BA:391:G:O5'	1.84	0.60
36:BA:496:G:C1'	55:BW:61:ASN:HD22	2.14	0.60
36:BA:809:G:O4'	36:BA:1254:A:H1'	2.01	0.60
36:BA:916:G:C2'	36:BA:917:A:H5''	2.30	0.60
36:BA:2636:U:OP1	40:BE:80:GLU:HG3	2.01	0.60
38:BC:186:ALA:O	38:BC:190:ARG:HG3	2.01	0.60
41:BF:168:ARG:O	41:BF:169:ASN:C	2.44	0.60
42:BG:114:ILE:O	42:BG:114:ILE:HG23	2.00	0.60
42:BG:130:ASN:ND2	42:BG:160:VAL:HG13	2.16	0.60
43:BH:61:HIS:O	43:BH:63:SER:N	2.34	0.60
43:BH:94:TYR:CE2	43:BH:152:ARG:HG2	2.36	0.60
49:BQ:43:THR:OG1	49:BQ:45:GLN:HG2	2.01	0.60
50:BR:52:ILE:O	50:BR:55:ALA:HB3	2.01	0.60
50:BR:56:LYS:O	50:BR:58:GLY:N	2.34	0.60
54:BV:29:PRO:HA	54:BV:61:VAL:HG21	1.82	0.60
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.83	0.60
58:BZ:133:ILE:O	58:BZ:133:ILE:HG22	2.01	0.60
1:CA:218:C:H5'	1:CA:470:C:H42	1.65	0.60
1:CA:225:C:H2'	1:CA:226:G:C8	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:275:G:O2'	1:CA:276:G:H5'	2.01	0.60
1:CA:544:G:N1	1:CA:545:C:C2	2.69	0.60
1:CA:668:G:H5'	15:CO:49:ASP:HA	1.81	0.60
2:CB:222:ILE:O	2:CB:226:ARG:HB2	2.00	0.60
3:CC:15:THR:HG22	3:CC:16:ARG:N	2.16	0.60
8:CH:45:ILE:HG21	8:CH:61:VAL:CG1	2.31	0.60
9:CI:33:PHE:CE2	9:CI:47:LEU:HD11	2.36	0.60
30:D4:40:HIS:CD2	30:D4:41:PRO:HA	2.36	0.60
36:DA:392:C:H2'	36:DA:393:C:H5'	1.84	0.60
36:DA:1057:A:H2'	36:DA:1058:G:O4'	2.01	0.60
36:DA:1169:G:H1	36:DA:1180:C:N4	1.99	0.60
36:DA:1440:G:N2	36:DA:1552:G:H1'	2.16	0.60
36:DA:1448:G:H2'	36:DA:1449:A:C8	2.36	0.60
36:DA:1678:G:O5'	36:DA:1678:G:H8	1.83	0.60
36:DA:1806:C:N4	36:DA:1811:G:H1	1.99	0.60
36:DA:2226:C:H2'	36:DA:2227:A:O4'	2.00	0.60
36:DA:2689:U:H4'	36:DA:2690:C:C6	2.36	0.60
36:DA:2825:C:H6	36:DA:2825:C:O5'	1.85	0.60
37:DB:72:G:N2	37:DB:104:U:H5	1.99	0.60
39:DD:112:GLN:N	39:DD:115:GLN:NE2	2.40	0.60
39:DD:149:PRO:HG3	39:DD:186:HIS:CD2	2.36	0.60
41:DF:53:THR:HG22	41:DF:56:GLU:CG	2.32	0.60
41:DF:122:LYS:HG3	41:DF:191:ARG:HG3	1.82	0.60
46:DN:23:LEU:HD12	46:DN:102:ALA:HB2	1.81	0.60
47:DO:111:PHE:HB3	47:DO:114:ILE:CD1	2.30	0.60
48:DP:23:PRO:HA	48:DP:29:LYS:O	2.01	0.60
48:DP:66:GLY:O	48:DP:67:MET:CB	2.49	0.60
51:DS:83:LYS:C	51:DS:105:ALA:HB3	2.26	0.60
53:DU:31:SER:HB3	53:DU:34:LYS:HB2	1.83	0.60
56:DX:57:LEU:O	56:DX:57:LEU:HD22	2.01	0.60
1:AA:218:C:H5'	1:AA:470:C:H42	1.67	0.60
1:AA:295:C:O2'	1:AA:296:U:H5'	2.01	0.60
1:AA:448:A:H2'	1:AA:449:C:C6	2.36	0.60
1:AA:503:C:H2'	1:AA:504:C:H6	1.65	0.60
2:AB:87:ARG:NH2	2:AB:233:SER:HB3	2.17	0.60
4:AD:170:VAL:HG12	4:AD:171:GLY:H	1.63	0.60
5:AE:76:ILE:HD11	5:AE:78:HIS:O	2.01	0.60
16:AP:48:TRP:H	16:AP:48:TRP:CD1	2.19	0.60
19:AS:52:TYR:O	19:AS:53:ASN:HB3	1.99	0.60
35:B9:1:MET:CG	35:B9:31:LYS:O	2.50	0.60
36:BA:581:C:H2'	36:BA:582:G:H8	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:744:G:OP1	40:BE:132:HIS:HB3	2.02	0.60
36:BA:1057:A:C2	36:BA:1058:G:H1'	2.36	0.60
36:BA:1824:G:H5''	39:BD:52:ARG:NH1	2.16	0.60
36:BA:2654:A:N3	36:BA:2656:U:N3	2.49	0.60
37:BB:72:G:N2	37:BB:104:U:H5	1.99	0.60
38:BC:113:VAL:HG21	38:BC:136:LEU:HB3	1.83	0.60
39:BD:106:ILE:O	39:BD:108:PRO:HD3	2.01	0.60
41:BF:195:ASP:OD2	41:BF:197:ASP:HB2	2.00	0.60
42:BG:21:ARG:CZ	42:BG:22:ARG:HA	2.30	0.60
42:BG:163:ALA:HB1	42:BG:169:ALA:CB	2.24	0.60
46:BN:18:ALA:HB2	46:BN:26:LEU:HD13	1.83	0.60
46:BN:55:VAL:CG2	46:BN:126:PRO:HA	2.25	0.60
48:BP:36:LYS:CD	48:BP:41:ARG:HB3	2.31	0.60
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.01	0.60
50:BR:14:SER:HA	50:BR:17:ARG:NH1	2.16	0.60
52:BT:77:PRO:O	52:BT:78:LEU:HB2	2.01	0.60
53:BU:90:VAL:HG12	53:BU:91:ASP:N	2.14	0.60
54:BV:51:VAL:HG12	54:BV:52:VAL:H	1.65	0.60
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.02	0.60
1:CA:955:U:O2'	1:CA:956:U:H5'	2.02	0.60
2:CB:121:LEU:CD2	2:CB:127:ILE:HD11	2.29	0.60
2:CB:162:ILE:HG22	2:CB:183:PRO:O	2.02	0.60
6:CF:3:ARG:NH1	6:CF:38:GLU:OE1	2.34	0.60
6:CF:14:LEU:HD13	6:CF:15:ASP:H	1.66	0.60
8:CH:30:ARG:HH11	8:CH:30:ARG:CB	2.14	0.60
8:CH:118:VAL:C	8:CH:119:LEU:HD23	2.27	0.60
13:CM:108:ARG:HH11	13:CM:108:ARG:CB	2.15	0.60
16:CP:55:ARG:NH2	16:CP:58:TYR:CD2	2.69	0.60
25:CZ:19:HIS:CD2	25:CZ:115:GLN:HB2	2.36	0.60
25:CZ:95:GLY:O	25:CZ:99:MET:HE3	2.01	0.60
36:DA:271(M):G:H2'	36:DA:271(N):U:C5'	2.18	0.60
36:DA:669:G:N2	36:DA:670:A:C2	2.68	0.60
36:DA:1060:U:H1'	36:DA:1061:U:C5'	2.31	0.60
36:DA:1747(A):G:C3'	36:DA:1748:G:H5''	2.31	0.60
36:DA:2377:A:H4'	51:DS:107:GLU:O	2.00	0.60
36:DA:2469:A:O2'	49:DQ:56:ARG:HG3	2.01	0.60
36:DA:2720:U:H2'	36:DA:2720:U:O2	2.00	0.60
38:DC:131:LEU:HD22	38:DC:136:LEU:HD12	1.83	0.60
40:DE:108:SER:O	40:DE:162:ALA:HA	2.00	0.60
43:DH:20:ALA:CB	43:DH:23:ARG:HB2	2.27	0.60
46:DN:5:VAL:CG1	46:DN:7:LYS:HG3	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:75:TYR:HA	46:DN:82:LEU:HA	1.83	0.60
48:DP:97:PRO:C	48:DP:99:LEU:N	2.57	0.60
51:DS:83:LYS:HG2	51:DS:105:ALA:CB	2.32	0.60
52:DT:38:ASN:ND2	52:DT:40:THR:OG1	2.34	0.60
58:DZ:10:ARG:HB3	58:DZ:36:LYS:C	2.25	0.60
1:AA:319:G:H4'	1:AA:1468:A:H5'	1.83	0.60
1:AA:526:C:H2'	1:AA:527:G:H4'	1.82	0.60
1:AA:1108:G:H5'	3:AC:176:HIS:HD2	1.67	0.60
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.02	0.60
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.02	0.60
1:AA:1423:G:C4	1:AA:1424:C:C5	2.89	0.60
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.00	0.60
3:AC:40:ARG:CZ	3:AC:57:ILE:HD12	2.31	0.60
4:AD:102:ASP:O	4:AD:105:VAL:HB	2.01	0.60
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.00	0.60
10:AJ:28:ARG:C	10:AJ:30:SER:H	2.08	0.60
17:AQ:10:VAL:HG23	17:AQ:55:ASP:O	2.01	0.60
18:AR:73:ALA:CB	18:AR:79:LEU:HD12	2.31	0.60
25:AZ:19:HIS:HD2	25:AZ:115:GLN:H	1.48	0.60
25:AZ:113:MET:O	25:AZ:116:THR:HB	2.01	0.60
27:B1:84:GLY:C	27:B1:86:SER:H	2.09	0.60
30:B4:8:LYS:HG2	30:B4:9:LEU:H	1.64	0.60
36:BA:342:G:H2'	36:BA:343:C:H6	1.65	0.60
36:BA:672:C:H2'	36:BA:673:C:C5'	2.31	0.60
36:BA:819:A:H2'	36:BA:820:A:C5'	2.31	0.60
36:BA:1011:G:O2'	36:BA:1013:C:H5''	2.01	0.60
36:BA:1215:G:H2'	36:BA:1216:G:H8	1.66	0.60
36:BA:1924:C:H2'	36:BA:1925:C:H6	1.66	0.60
36:BA:2117:A:N6	36:BA:2171:A:H61	1.99	0.60
36:BA:2315:G:H2'	36:BA:2316:C:C6	2.36	0.60
36:BA:2377:A:H4'	51:BS:107:GLU:O	2.01	0.60
38:BC:5:LYS:HG3	38:BC:6:ARG:N	2.16	0.60
40:BE:39:PRO:HD3	40:BE:45:THR:OG1	2.02	0.60
41:BF:7:TYR:HD2	41:BF:16:GLY:H	1.48	0.60
41:BF:34:TRP:HB2	48:BP:10:PRO:HB2	1.83	0.60
41:BF:177:ALA:HB1	41:BF:178:PRO:HD2	1.82	0.60
46:BN:46:VAL:HG13	46:BN:48:MET:HG3	1.83	0.60
1:CA:436:C:H2'	1:CA:437:U:H6	1.67	0.60
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.01	0.60
1:CA:1237:C:C4'	1:CA:1334:G:N2	2.65	0.60
1:CA:1314:C:N4	19:CS:4:SER:HB2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:76:GLN:O	2:CB:77:ALA:HB2	2.02	0.60
3:CC:153:VAL:O	3:CC:154:SER:CB	2.50	0.60
13:CM:56:LEU:C	13:CM:56:LEU:HD13	2.26	0.60
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.28	0.60
31:D5:46:CYS:HB2	31:D5:47:PRO:HD2	1.82	0.60
36:DA:832:G:OP1	48:DP:40:SER:HB2	2.00	0.60
38:DC:206:GLY:HA3	38:DC:210:ARG:NH2	2.14	0.60
39:DD:172:TYR:HD1	39:DD:186:HIS:HA	1.66	0.60
39:DD:176:ARG:HH11	39:DD:176:ARG:HG2	1.64	0.60
40:DE:29:GLY:HA2	40:DE:180:ASN:CG	2.26	0.60
40:DE:44:TYR:O	40:DE:45:THR:HB	1.99	0.60
52:DT:63:VAL:O	52:DT:73:GLU:HA	2.01	0.60
53:DU:20:LEU:HD22	53:DU:20:LEU:N	2.16	0.60
53:DU:38:THR:O	53:DU:41:ALA:HB3	2.00	0.60
53:DU:52:ARG:HA	53:DU:55:ARG:HH12	1.65	0.60
53:DU:59:ARG:O	53:DU:62:ILE:N	2.34	0.60
53:DU:96:ALA:C	53:DU:98:LEU:H	2.09	0.60
58:DZ:58:VAL:HG13	58:DZ:67:LEU:O	2.02	0.60
1:AA:447:G:H2'	1:AA:485:G:H22	1.63	0.60
1:AA:697:U:H2'	1:AA:698:G:H5'	1.82	0.60
1:AA:1199:U:H4'	10:AJ:54:PHE:CE2	2.37	0.60
1:AA:1239:A:H4'	1:AA:1240:U:O5'	2.01	0.60
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.35	0.60
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.16	0.60
3:AC:60:ALA:H	3:AC:63:ASN:CG	2.10	0.60
4:AD:162:LEU:HD13	4:AD:162:LEU:O	2.00	0.60
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.29	0.60
8:AH:28:ALA:HB3	8:AH:57:PRO:O	2.02	0.60
8:AH:81:HIS:ND1	8:AH:138:TRP:OXT	2.34	0.60
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.26	0.60
25:AZ:355:LEU:HD22	25:AZ:359:VAL:HB	1.83	0.60
28:B2:59:ARG:HA	36:BA:76:C:O2'	2.01	0.60
34:B8:15:LYS:HD3	48:BP:65:ARG:CZ	2.32	0.60
36:BA:1141:U:H2'	46:BN:63:THR:HG21	1.84	0.60
36:BA:1722:A:C2	36:BA:1740:G:H2'	2.37	0.60
36:BA:1826:G:C4'	39:BD:242:ARG:HH21	2.14	0.60
36:BA:2196:C:O2'	36:BA:2197:U:H5'	2.02	0.60
36:BA:2219:G:C2'	36:BA:2220:G:H5'	2.30	0.60
36:BA:2235:G:H2'	36:BA:2236:C:C6	2.36	0.60
36:BA:2673:G:H2'	36:BA:2674:G:H8	1.66	0.60
36:BA:2840:C:C5'	50:BR:53:HIS:CD2	2.76	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:29:GLY:HA2	40:BE:180:ASN:ND2	2.16	0.60
42:BG:46:ALA:HA	42:BG:53:LEU:HD23	1.82	0.60
42:BG:133:LEU:C	42:BG:133:LEU:CD1	2.74	0.60
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB3	1.84	0.60
50:BR:56:LYS:C	50:BR:58:GLY:H	2.09	0.60
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.69	0.60
57:BY:73:ARG:O	57:BY:74:PRO:O	2.19	0.60
1:CA:503:C:H2'	1:CA:504:C:H6	1.65	0.60
1:CA:630:G:H2'	1:CA:631:G:H5'	1.83	0.60
1:CA:1237:C:H4'	1:CA:1334:G:H22	1.65	0.60
1:CA:1305:G:H21	1:CA:1331:G:H2'	1.67	0.60
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.00	0.60
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.01	0.60
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.07	0.60
2:CB:104:ASN:OD1	2:CB:107:THR:HB	2.01	0.60
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.65	0.60
8:CH:101:PRO:C	8:CH:102:ARG:HD3	2.26	0.60
20:CT:57:ARG:HH12	20:CT:103:GLY:H	1.50	0.60
27:D1:25:LYS:HB3	36:DA:388:G:H5'	1.84	0.60
34:D8:15:LYS:HD3	48:DP:65:ARG:CZ	2.30	0.60
35:D9:1:MET:CG	35:D9:31:LYS:O	2.49	0.60
36:DA:523:C:H2'	36:DA:524:U:C5'	2.25	0.60
36:DA:678:C:H2'	36:DA:679:C:C6	2.36	0.60
36:DA:1188:U:O2'	36:DA:1189:A:H5'	2.02	0.60
36:DA:1431:U:O2'	36:DA:1432:C:H5'	2.01	0.60
36:DA:1503:U:C6	36:DA:1504:C:H5	2.19	0.60
36:DA:2476:A:C2'	36:DA:2477:C:H5''	2.29	0.60
36:DA:2654:A:N3	36:DA:2656:U:N3	2.49	0.60
38:DC:131:LEU:HD22	38:DC:136:LEU:CD1	2.31	0.60
42:DG:106:LEU:O	42:DG:110:ALA:HB3	2.02	0.60
47:DO:64:ARG:NE	52:DT:70:VAL:HG21	2.16	0.60
49:DQ:79:LEU:CD2	49:DQ:80:GLU:HG3	2.32	0.60
52:DT:52:ILE:HG12	52:DT:61:PHE:CB	2.31	0.60
53:DU:102:GLU:CB	53:DU:105:VAL:HB	2.31	0.60
54:DV:51:VAL:HG12	54:DV:52:VAL:H	1.66	0.60
58:DZ:149:SER:HB3	58:DZ:172:ALA:O	2.01	0.60
1:AA:973:G:H3'	1:AA:974:A:H5''	1.81	0.60
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.65	0.60
2:AB:130:ARG:NE	2:AB:131:PRO:HD2	2.16	0.60
2:AB:134:GLU:C	2:AB:136:VAL:N	2.59	0.60
24:AY:55:PSU:O4	24:AY:55:PSU:H3'	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:286:VAL:CG2	25:AZ:287:GLY:N	2.63	0.60
29:B3:7:LYS:HA	29:B3:34:GLU:HA	1.83	0.60
30:B4:20:ASN:HD22	30:B4:20:ASN:C	2.08	0.60
31:B5:4:HIS:O	36:BA:2056:G:N2	2.33	0.60
32:B6:19:ARG:CD	36:BA:2400:G:H4'	2.20	0.60
36:BA:89:G:H3'	36:BA:90:U:C5'	2.31	0.60
36:BA:520:G:H2'	36:BA:521:G:H8	1.67	0.60
36:BA:1343:G:N2	36:BA:1405:U:C2	2.70	0.60
36:BA:1345:C:H2'	36:BA:1346:G:H5'	1.83	0.60
36:BA:1570:A:H2'	36:BA:1571:A:C8	2.37	0.60
36:BA:2453:A:O2'	36:BA:2454:G:H5'	2.02	0.60
36:BA:2476:A:H2	36:BA:2477:C:C5	2.19	0.60
36:BA:2484:G:O2'	36:BA:2485:G:H5'	2.01	0.60
36:BA:2584:U:O5'	36:BA:2584:U:O2	2.20	0.60
36:BA:2636:U:H4'	40:BE:80:GLU:CD	2.27	0.60
38:BC:198:ALA:O	38:BC:200:LYS:N	2.35	0.60
39:BD:213:ARG:HD2	39:BD:217:ARG:O	2.01	0.60
41:BF:102:PRO:O	41:BF:106:ARG:HG3	2.01	0.60
47:BO:91:LEU:HD13	47:BO:111:PHE:CE1	2.37	0.60
49:BQ:39:PRO:HG3	49:BQ:99:PRO:CD	2.32	0.60
49:BQ:74:TYR:HD1	49:BQ:75:THR:N	1.99	0.60
51:BS:56:LEU:C	51:BS:58:LEU:N	2.57	0.60
52:BT:11:GLU:C	52:BT:13:ARG:H	2.09	0.60
55:BW:6:ILE:HG22	55:BW:7:ALA:N	2.16	0.60
57:BY:81:LYS:HG2	57:BY:96:ILE:HB	1.84	0.60
1:CA:668:G:O2'	15:CO:46:HIS:HB3	2.01	0.60
1:CA:708:C:H2'	1:CA:709:G:H8	1.65	0.60
1:CA:749:C:O2'	1:CA:750:G:H5'	2.02	0.60
1:CA:1108:G:H5'	3:CC:176:HIS:HD2	1.67	0.60
1:CA:1442(B):A:C2	52:DT:118:ARG:NH1	2.69	0.60
2:CB:36:ARG:C	2:CB:38:GLY:N	2.60	0.60
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.82	0.60
4:CD:17:VAL:HG21	4:CD:63:LYS:NZ	2.16	0.60
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.01	0.60
9:CI:48:GLU:HB3	9:CI:101:PHE:CE2	2.36	0.60
12:CL:51:ALA:C	12:CL:52:LEU:HD23	2.26	0.60
28:D2:68:ARG:NH1	28:D2:72:ALA:HB2	2.17	0.60
30:D4:16:CYS:SG	30:D4:17:GLY:N	2.74	0.60
36:DA:110:G:O2'	36:DA:111:A:H5'	2.01	0.60
36:DA:183:C:H5'	36:DA:433:C:H4'	1.83	0.60
36:DA:328:U:H4'	57:DY:68:HIS:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:637:A:H4'	36:DA:638:G:O5'	2.02	0.60
36:DA:916:G:C2'	36:DA:917:A:H5''	2.31	0.60
36:DA:978:G:H1	36:DA:985:C:N4	1.99	0.60
36:DA:1137:G:H2'	36:DA:1138:G:C8	2.36	0.60
36:DA:1403:C:H5''	36:DA:1471:A:H1'	1.83	0.60
36:DA:1675:C:O2	40:DE:129:HIS:HA	2.01	0.60
36:DA:1902:C:C4'	39:DD:244:ARG:HB2	2.31	0.60
36:DA:2127:G:H2'	36:DA:2128:C:H6	1.67	0.60
36:DA:2312:U:O2'	36:DA:2313:C:H5''	2.00	0.60
36:DA:2338:G:H2'	36:DA:2339:G:C8	2.35	0.60
48:DP:9:ASN:H	48:DP:10:PRO:CD	2.03	0.60
48:DP:115:LEU:HG	48:DP:116:GLY:N	2.17	0.60
49:DQ:37:LEU:HD21	49:DQ:129:THR:C	2.27	0.60
49:DQ:141:GLN:HB3	58:DZ:98:MET:HA	1.82	0.60
53:DU:49:HIS:O	53:DU:53:ARG:N	2.29	0.60
53:DU:65:ILE:HD11	53:DU:96:ALA:HB3	1.84	0.60
54:DV:19:LYS:HB3	54:DV:94:LEU:O	2.02	0.60
58:DZ:100:VAL:HG13	58:DZ:101:PRO:HD2	1.84	0.60
1:AA:41:G:H2'	1:AA:42:G:H8	1.61	0.60
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.01	0.60
1:AA:1298:C:P	7:AG:114:ARG:HH22	2.25	0.60
1:AA:1401:G:H8	1:AA:1401:G:O5'	1.84	0.60
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.02	0.60
2:AB:87:ARG:CZ	2:AB:233:SER:HB3	2.31	0.60
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.01	0.60
7:AG:118:VAL:O	7:AG:119:ARG:C	2.45	0.60
10:AJ:65:LEU:HD13	14:AN:56:VAL:H	1.66	0.60
12:AL:28:LYS:O	12:AL:29:GLY:C	2.44	0.60
15:AO:4:THR:C	15:AO:6:GLU:H	2.08	0.60
22:AW:67:C:O2'	22:AW:68:C:H5'	2.02	0.60
25:AZ:321:TYR:CE2	25:AZ:323:LEU:HD12	2.37	0.60
34:B8:61:LEU:O	34:B8:64:TYR:N	2.31	0.60
36:BA:271(M):G:H2'	36:BA:271(N):U:C5'	2.17	0.60
36:BA:361:G:H2'	36:BA:362:U:H4'	1.82	0.60
36:BA:528:A:H2	36:BA:2043:C:H4'	1.67	0.60
36:BA:658:C:H2'	36:BA:659:C:C6	2.37	0.60
36:BA:783:A:H8	36:BA:784:A:H4'	1.67	0.60
36:BA:821:A:H5''	36:BA:822:U:C6	2.35	0.60
36:BA:1550:C:H2'	36:BA:1551:C:C6	2.37	0.60
36:BA:2113:U:H2'	36:BA:2114:A:H8	1.65	0.60
36:BA:2199:A:H2'	36:BA:2199:A:N3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2283:C:H5	36:BA:2389:G:H2'	1.66	0.60
38:BC:75:LEU:HB3	38:BC:93:TYR:HD2	1.66	0.60
39:BD:177:LEU:C	39:BD:179:SER:H	2.10	0.60
43:BH:136:ILE:HD12	43:BH:136:ILE:N	2.17	0.60
50:BR:73:VAL:HG12	50:BR:77:ARG:NH1	2.16	0.60
51:BS:29:PHE:HD2	51:BS:30:ARG:N	1.98	0.60
51:BS:64:GLU:O	51:BS:67:ARG:HG3	2.01	0.60
54:BV:24:LYS:HA	54:BV:92:THR:CG2	2.31	0.60
58:BZ:5:LEU:C	58:BZ:6:LYS:HD3	2.27	0.60
1:CA:46:G:H1'	1:CA:396:G:N2	2.16	0.60
1:CA:599:C:H4'	8:CH:130:GLY:HA3	1.84	0.60
1:CA:1005:A:OP2	1:CA:1006:C:N3	2.35	0.60
3:CC:40:ARG:NH2	3:CC:57:ILE:HD12	2.16	0.60
4:CD:201:GLN:HA	4:CD:204:ILE:CD1	2.31	0.60
5:CE:45:PHE:CD2	5:CE:47:LYS:HD2	2.36	0.60
7:CG:106:GLN:O	7:CG:107:ALA:C	2.43	0.60
10:CJ:49:VAL:O	10:CJ:49:VAL:HG13	2.01	0.60
25:CZ:195:TRP:O	25:CZ:199:ILE:HG12	2.01	0.60
25:CZ:381:GLU:O	25:CZ:382:GLU:O	2.20	0.60
26:D0:28:GLY:H	26:D0:66:VAL:HG13	1.66	0.60
26:D0:47:PRO:O	26:D0:78:TYR:HD2	1.84	0.60
28:D2:50:ILE:HD12	28:D2:50:ILE:N	2.17	0.60
34:D8:50:LEU:O	34:D8:52:LYS:N	2.30	0.60
36:DA:966:G:H2'	36:DA:967:C:C6	2.36	0.60
36:DA:1693:U:O2'	39:DD:14:ARG:NH2	2.35	0.60
36:DA:1999:C:H5''	36:DA:2723:C:O2'	2.02	0.60
36:DA:2012:G:H4'	55:DW:96:ILE:CD1	2.16	0.60
36:DA:2482:G:N2	49:DQ:52:VAL:HG11	2.13	0.60
36:DA:2593:U:H2'	36:DA:2594:C:H6	1.66	0.60
37:DB:19:G:H5'	37:DB:20:C:OP2	2.02	0.60
38:DC:5:LYS:HG3	38:DC:6:ARG:N	2.16	0.60
38:DC:40:THR:HG23	38:DC:177:LYS:CD	2.32	0.60
39:DD:11:PRO:C	39:DD:13:ARG:H	2.08	0.60
43:DH:44:VAL:CG1	43:DH:45:VAL:H	2.13	0.60
47:DO:12:ASP:HA	47:DO:97:ARG:O	2.01	0.60
47:DO:64:ARG:O	47:DO:82:ASN:HA	2.01	0.60
52:DT:103:ARG:O	52:DT:105:LEU:N	2.34	0.60
57:DY:21:LYS:HG2	57:DY:21:LYS:O	2.02	0.60
58:DZ:127:LYS:O	58:DZ:128:VAL:HB	2.01	0.60
1:AA:544:G:N1	1:AA:545:C:C2	2.70	0.60
1:AA:1008:C:H42	1:AA:1021:G:H1	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:50:ALA:O	3:AC:71:ALA:HB3	2.01	0.60
3:AC:113:ALA:HB3	3:AC:185:GLY:H	1.67	0.60
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.15	0.60
9:AI:78:LYS:HE3	9:AI:101:PHE:CZ	2.37	0.60
11:AK:99:GLN:HG2	11:AK:105:VAL:HG11	1.84	0.60
12:AL:94:PRO:O	12:AL:96:VAL:N	2.35	0.60
17:AQ:10:VAL:CG2	17:AQ:55:ASP:HB2	2.31	0.60
19:AS:11:VAL:HG13	19:AS:11:VAL:O	2.02	0.60
22:AW:8:U:O2'	22:AW:9:A:H5''	2.01	0.60
24:AY:9:A:H62	24:AY:23:A:H62	1.50	0.60
25:AZ:339:ARG:HE	25:AZ:352:VAL:HG22	1.64	0.60
29:B3:1:MET:O	29:B3:3:ARG:N	2.34	0.60
30:B4:6:HIS:HB3	42:BG:67:LYS:CE	2.30	0.60
32:B6:36:LEU:HD12	32:B6:50:ARG:NH1	2.15	0.60
33:B7:10:ARG:O	33:B7:11:LYS:C	2.43	0.60
36:BA:55:G:O2'	36:BA:127:A:H2	1.84	0.60
36:BA:987:G:C2	36:BA:988:A:H1'	2.37	0.60
36:BA:1669:A:H2'	36:BA:1670:C:H5'	1.84	0.60
36:BA:2312:U:C2'	36:BA:2313:C:H5''	2.32	0.60
38:BC:65:PRO:HD2	38:BC:188:ASN:OD1	2.02	0.60
42:BG:5:VAL:HG12	42:BG:6:ALA:N	2.16	0.60
48:BP:100:LEU:HD13	48:BP:103:ALA:HB3	1.82	0.60
51:BS:78:LEU:HD11	51:BS:103:GLU:HB2	1.83	0.60
56:BX:18:TYR:O	56:BX:20:GLY:N	2.34	0.60
1:CA:295:C:H2'	1:CA:296:U:C6	2.30	0.60
1:CA:342:C:H2'	1:CA:343:U:O4'	2.02	0.60
1:CA:512:U:H2'	1:CA:513:C:C6	2.37	0.60
1:CA:922:G:H1'	5:CE:19:MET:HB2	1.83	0.60
1:CA:960:U:O2	1:CA:960:U:H2'	2.01	0.60
1:CA:1320:C:H5''	19:CS:70:LYS:CG	2.31	0.60
1:CA:1363(A):A:H4'	1:CA:1364:U:C5'	2.29	0.60
2:CB:87:ARG:NH2	2:CB:233:SER:HB3	2.17	0.60
2:CB:87:ARG:CZ	2:CB:233:SER:HB3	2.31	0.60
2:CB:134:GLU:C	2:CB:136:VAL:N	2.60	0.60
8:CH:74:PRO:O	8:CH:75:ARG:C	2.45	0.60
11:CK:90:GLY:HA2	11:CK:93:GLN:HB2	1.83	0.60
11:CK:99:GLN:HG2	11:CK:105:VAL:HG11	1.83	0.60
13:CM:2:ALA:C	13:CM:9:ILE:HG23	2.27	0.60
17:CQ:34:LYS:HG2	17:CQ:35:VAL:N	2.16	0.60
20:CT:74:LYS:HD3	20:CT:74:LYS:N	2.17	0.60
20:CT:75:ASN:HA	20:CT:78:ALA:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:7:ILE:HD12	27:D1:70:VAL:CG2	2.32	0.60
27:D1:58:ILE:HG13	27:D1:59:THR:H	1.66	0.60
36:DA:203:C:C3'	36:DA:204:A:H5''	2.32	0.60
36:DA:271(L):U:H5''	36:DA:271(M):G:C5'	2.27	0.60
36:DA:287:C:H2'	36:DA:288:C:H6	1.63	0.60
36:DA:342:G:H2'	36:DA:343:C:H6	1.66	0.60
36:DA:553:G:H2'	36:DA:554:U:O4'	2.02	0.60
36:DA:810:U:OP1	36:DA:1253:A:N7	2.34	0.60
36:DA:990:A:H5'	36:DA:1157:G:H5''	1.83	0.60
36:DA:1438:U:H2'	36:DA:1439:A:C8	2.36	0.60
36:DA:1787:A:H2'	36:DA:1788:C:C6	2.37	0.60
36:DA:1866:C:H2'	36:DA:1876:A:O4'	2.01	0.60
36:DA:2619:C:O2'	36:DA:2620:C:H5'	2.02	0.60
39:DD:48:ARG:HG3	39:DD:48:ARG:NH1	2.16	0.60
43:DH:61:HIS:C	43:DH:63:SER:N	2.58	0.60
52:DT:101:PHE:O	52:DT:102:ILE:C	2.44	0.60
1:AA:864:A:H2	1:AA:917:G:N3	1.98	0.60
1:AA:1271:G:C5'	1:AA:1314:C:H5''	2.31	0.60
3:AC:40:ARG:NH2	3:AC:57:ILE:HD12	2.17	0.60
3:AC:206:GLU:O	3:AC:208:ILE:N	2.35	0.60
4:AD:54:TYR:O	4:AD:55:ALA:C	2.44	0.60
6:AF:84:ASN:H	6:AF:84:ASN:ND2	1.97	0.60
13:AM:30:ALA:C	13:AM:32:GLU:N	2.58	0.60
25:AZ:95:GLY:O	25:AZ:99:MET:HE3	2.02	0.60
25:AZ:223:MET:HB2	25:AZ:241:ARG:O	2.01	0.60
25:AZ:385:ARG:HD3	63:AZ:502:KIR:C45	2.32	0.60
27:B1:23:LYS:HB3	27:B1:29:GLY:H	1.66	0.60
33:B7:18:PHE:H	33:B7:43:THR:HG21	1.66	0.60
36:BA:442:G:N3	41:BF:48:THR:HG21	2.17	0.60
36:BA:777:A:H2'	36:BA:778:G:C8	2.36	0.60
36:BA:1362:C:C2'	36:BA:1363:C:H5'	2.32	0.60
36:BA:1563:G:O2'	36:BA:1564:C:H5'	2.02	0.60
36:BA:1887:C:C3'	36:BA:1888:G:H5''	2.32	0.60
38:BC:98:GLU:O	38:BC:100:ILE:N	2.34	0.60
39:BD:9:TYR:CD2	39:BD:10:THR:HG22	2.37	0.60
41:BF:167:ALA:C	41:BF:173:VAL:HG11	2.27	0.60
41:BF:202:PHE:O	41:BF:206:ILE:HG12	2.02	0.60
42:BG:149:VAL:HG23	42:BG:149:VAL:O	2.01	0.60
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.83	0.60
48:BP:68:GLN:HA	48:BP:68:GLN:NE2	2.15	0.60
52:BT:16:ARG:HB2	52:BT:19:LEU:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:70:VAL:HG12	52:BT:71:GLY:N	2.15	0.60
1:CA:343:U:O2	1:CA:347:G:N1	2.34	0.60
1:CA:556:C:O2'	1:CA:557:G:H5'	2.02	0.60
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.01	0.60
15:CO:4:THR:C	15:CO:6:GLU:H	2.09	0.60
18:CR:53:ARG:O	18:CR:55:ARG:N	2.33	0.60
26:D0:48:GLY:H	26:D0:51:VAL:HB	1.67	0.60
34:D8:23:VAL:HG13	34:D8:47:LYS:O	2.02	0.60
36:DA:6:A:H2'	36:DA:7:G:C8	2.37	0.60
36:DA:20:C:H2'	36:DA:21:A:C8	2.36	0.60
36:DA:223:A:N7	36:DA:422:A:H1'	2.17	0.60
36:DA:307:G:H22	36:DA:310:A:P	2.24	0.60
36:DA:1702:G:H2'	36:DA:1703:G:O4'	2.01	0.60
36:DA:1865:G:H5'	36:DA:1866:C:P	2.41	0.60
36:DA:2084:C:H2'	36:DA:2085:C:C6	2.37	0.60
36:DA:2789:C:H1'	36:DA:2892:A:C2	2.37	0.60
38:DC:47:LEU:HD11	38:DC:171:ILE:HG22	1.83	0.60
40:DE:36:ARG:HH22	40:DE:88:GLY:HA2	1.64	0.60
40:DE:201:THR:HG23	40:DE:203:LYS:H	1.67	0.60
41:DF:28:ILE:HG22	41:DF:116:ASP:HB2	1.83	0.60
42:DG:39:ILE:CG2	42:DG:157:ILE:HG12	2.31	0.60
48:DP:40:SER:C	48:DP:41:ARG:HD2	2.27	0.60
48:DP:68:GLN:NE2	48:DP:68:GLN:HA	2.16	0.60
49:DQ:24:GLY:O	49:DQ:26:TYR:N	2.35	0.60
50:DR:29:LEU:O	50:DR:30:THR:HB	2.02	0.60
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.32	0.60
1:AA:106:C:C2'	1:AA:107:G:H5'	2.32	0.60
1:AA:119:A:C4'	1:AA:120:A:O5'	2.49	0.60
1:AA:642:A:H2'	1:AA:643:C:C6	2.36	0.60
1:AA:676:A:H1'	11:AK:115:PRO:HB3	1.84	0.60
1:AA:781:A:C2'	1:AA:782:A:H5'	2.30	0.60
1:AA:880:C:H2'	1:AA:881:G:H8	1.66	0.60
1:AA:1250:A:H2'	1:AA:1251:A:H8	1.67	0.60
1:AA:1498:U:C4	23:AX:20:U:H5'	2.37	0.60
3:AC:18:TRP:HE1	14:AN:55:GLY:N	1.99	0.60
3:AC:72:LYS:O	3:AC:74:GLY:N	2.35	0.60
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.17	0.60
8:AH:14:ARG:HH11	8:AH:14:ARG:HB2	1.66	0.60
9:AI:77:ILE:HG23	9:AI:81:ILE:HD11	1.83	0.60
9:AI:110:GLU:HG2	9:AI:113:LYS:HZ1	1.67	0.60
15:AO:7:GLU:O	15:AO:10:LYS:HB3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:221:PHE:O	25:AZ:222:LEU:HB2	2.01	0.60
27:B1:72:GLU:O	27:B1:73:LEU:HG	2.01	0.60
28:B2:50:ILE:HD12	28:B2:50:ILE:N	2.17	0.60
29:B3:56:VAL:O	29:B3:57:GLU:HB2	2.01	0.60
30:B4:22:ILE:HD12	30:B4:22:ILE:N	2.10	0.60
36:BA:496:G:H1'	55:BW:61:ASN:HD22	1.65	0.60
36:BA:779:U:H2'	36:BA:780:G:C8	2.36	0.60
36:BA:1009:A:N3	36:BA:1154:G:H5'	2.17	0.60
36:BA:1971:A:C2	39:BD:240:ALA:HA	2.37	0.60
36:BA:2073:C:O2'	36:BA:2074:U:H5'	2.02	0.60
36:BA:2630:G:H1'	36:BA:2894:G:H1'	1.83	0.60
39:BD:248:SER:HG	39:BD:252:TRP:CD1	2.20	0.60
41:BF:17:ARG:HG3	41:BF:17:ARG:HH11	1.67	0.60
41:BF:78:ILE:O	41:BF:80:ALA:N	2.35	0.60
41:BF:157:VAL:CG2	41:BF:194:MET:HG2	2.31	0.60
41:BF:168:ARG:HG2	41:BF:169:ASN:H	1.67	0.60
41:BF:185:ASP:HA	41:BF:188:ARG:HD3	1.84	0.60
43:BH:66:GLY:HA2	43:BH:69:ARG:HE	1.66	0.60
49:BQ:34:LEU:CD1	49:BQ:129:THR:HB	2.31	0.60
49:BQ:39:PRO:CD	49:BQ:99:PRO:HG2	2.31	0.60
51:BS:35:ILE:O	51:BS:35:ILE:HG12	2.01	0.60
1:CA:127:G:HO2'	17:CQ:2:PRO:N	2.00	0.60
1:CA:540:G:H2'	1:CA:541:G:H8	1.66	0.60
1:CA:577:G:H1'	1:CA:816:A:C4	2.37	0.60
1:CA:840:C:H5'	1:CA:841:U:OP1	2.02	0.60
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.17	0.60
2:CB:16:HIS:HB3	2:CB:210:SER:HA	1.84	0.60
7:CG:31:MET:HG2	7:CG:32:ARG:H	1.64	0.60
7:CG:64:GLN:NE2	7:CG:68:ASN:ND2	2.49	0.60
24:CY:6:U:C3'	24:CY:7:A:H5''	2.32	0.60
25:CZ:285:ASN:HD22	25:CZ:285:ASN:N	2.00	0.60
28:D2:22:GLU:HG2	28:D2:64:LEU:HD11	1.84	0.60
36:DA:1654:A:C2	40:DE:113:PHE:CD2	2.90	0.60
36:DA:1798:U:H5'	39:DD:259:THR:HB	1.84	0.60
36:DA:1855:G:H2'	36:DA:1856:G:H8	1.64	0.60
36:DA:2442:C:H2'	36:DA:2442:C:O2	2.00	0.60
36:DA:2589:A:H2'	36:DA:2590:A:H8	1.67	0.60
36:DA:2677:G:H2'	36:DA:2678:C:H6	1.66	0.60
39:DD:48:ARG:HG3	39:DD:48:ARG:HH11	1.66	0.60
39:DD:147:LEU:CD1	39:DD:183:ARG:NH1	2.42	0.60
41:DF:101:LEU:CD1	41:DF:102:PRO:HD2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:16:ARG:HB2	48:DP:16:ARG:CZ	2.31	0.60
49:DQ:39:PRO:HG3	49:DQ:99:PRO:CD	2.31	0.60
57:DY:6:HIS:N	57:DY:6:HIS:CD2	2.69	0.60
1:AA:186:C:O3'	20:AT:82:SER:HB3	2.01	0.59
1:AA:512:U:H2'	1:AA:513:C:C6	2.36	0.59
1:AA:630:G:H2'	1:AA:631:G:H5'	1.84	0.59
1:AA:639:G:H2'	1:AA:640:A:H8	1.67	0.59
1:AA:1298:C:N4	7:AG:114:ARG:HD2	2.17	0.59
1:AA:1356:G:O2'	1:AA:1357:A:H5'	2.01	0.59
1:AA:1472:U:O2'	1:AA:1473:A:H5'	2.01	0.59
3:AC:35:GLU:OE1	3:AC:97:LYS:HE2	2.02	0.59
3:AC:114:PRO:O	3:AC:118:GLN:HG3	2.02	0.59
7:AG:31:MET:CG	7:AG:32:ARG:H	2.15	0.59
7:AG:106:GLN:O	7:AG:107:ALA:C	2.45	0.59
10:AJ:24:VAL:O	10:AJ:27:ALA:N	2.35	0.59
12:AL:90:VAL:O	12:AL:92:ASP:N	2.35	0.59
16:AP:41:PRO:O	16:AP:43:LYS:HG3	2.02	0.59
19:AS:49:ILE:O	19:AS:60:VAL:HG13	2.02	0.59
25:AZ:311:THR:HG1	25:AZ:313:HIS:HE2	1.48	0.59
30:B4:9:LEU:HG	42:BG:98:ARG:NH1	2.17	0.59
34:B8:28:GLY:CA	34:B8:32:LEU:HD23	2.30	0.59
35:B9:29:ASN:ND2	35:B9:29:ASN:O	2.34	0.59
36:BA:957:A:N1	36:BA:2458:G:H4'	2.17	0.59
36:BA:1403:C:H5''	36:BA:1471:A:H1'	1.84	0.59
36:BA:2394:C:OP1	48:BP:63:PRO:HD2	2.01	0.59
37:BB:79:C:O2'	37:BB:80:U:H5'	2.02	0.59
40:BE:100:GLU:O	40:BE:172:VAL:HG23	2.01	0.59
41:BF:80:ALA:HB1	41:BF:81:PRO:HD2	1.82	0.59
43:BH:118:PRO:CG	43:BH:121:ILE:HB	2.32	0.59
48:BP:6:LEU:H	48:BP:6:LEU:HD23	1.67	0.59
1:CA:594:G:H2'	1:CA:595:G:H5'	1.84	0.59
1:CA:697:U:H2'	1:CA:698:G:H5'	1.84	0.59
1:CA:1155:G:O2'	1:CA:1156:G:H5'	2.01	0.59
2:CB:167:PRO:HG2	2:CB:192:SER:CB	2.31	0.59
4:CD:91:SER:O	4:CD:92:VAL:C	2.44	0.59
5:CE:61:TYR:O	5:CE:62:ALA:C	2.44	0.59
7:CG:5:ARG:O	7:CG:7:ALA:N	2.35	0.59
14:CN:4:LYS:O	14:CN:5:ALA:C	2.45	0.59
25:CZ:139:ASP:OD2	25:CZ:177:LEU:HD21	2.01	0.59
33:D7:13:ALA:O	33:D7:17:GLY:HA3	2.01	0.59
36:DA:440:G:N2	41:DF:46:ARG:NH2	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:483:A:H1'	57:DY:60:PHE:HE1	1.66	0.59
36:DA:1343:G:C2'	36:DA:1344:G:H5'	2.32	0.59
36:DA:1794:U:O4'	36:DA:1900:A:C2	2.55	0.59
36:DA:1803:A:O3'	39:DD:259:THR:CG2	2.50	0.59
36:DA:2777:G:C5'	36:DA:2778:A:H5'	2.31	0.59
39:DD:18:VAL:HG23	39:DD:211:ARG:NH2	2.17	0.59
1:AA:968:A:O2'	1:AA:969:A:OP1	2.17	0.59
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.66	0.59
5:AE:44:GLY:O	5:AE:58:ALA:HB1	2.02	0.59
6:AF:10:LEU:HD13	6:AF:59:TYR:HD2	1.67	0.59
11:AK:72:ALA:O	11:AK:75:TYR:HB2	2.02	0.59
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.50	0.59
13:AM:116:THR:HG22	13:AM:118:ALA:H	1.66	0.59
27:B1:50:ARG:CG	27:B1:59:THR:HG22	2.29	0.59
28:B2:25:VAL:C	28:B2:27:GLU:N	2.55	0.59
32:B6:11:LEU:HD13	32:B6:11:LEU:C	2.26	0.59
36:BA:678:C:H2'	36:BA:679:C:H6	1.66	0.59
36:BA:1340:U:O2	36:BA:1603:A:C8	2.55	0.59
36:BA:1345:C:O2'	36:BA:1346:G:H5'	2.02	0.59
36:BA:1438:U:H2'	36:BA:1439:A:H8	1.68	0.59
36:BA:1496:A:H8	36:BA:1577:C:O2'	1.84	0.59
36:BA:1963:U:H4'	36:BA:1964:G:OP1	2.01	0.59
36:BA:2008:C:O2'	36:BA:2009:G:H5'	2.02	0.59
36:BA:2393:A:C2'	36:BA:2394:C:H5'	2.32	0.59
36:BA:2476:A:H2	36:BA:2477:C:C6	2.20	0.59
37:BB:10:C:O2'	37:BB:11:C:H5'	2.03	0.59
38:BC:75:LEU:HG	38:BC:112:ALA:O	2.02	0.59
39:BD:136:ILE:N	39:BD:136:ILE:CD1	2.65	0.59
40:BE:116:VAL:HG23	40:BE:120:TRP:HB2	1.84	0.59
41:BF:51:THR:HG21	41:BF:91:GLY:CA	2.30	0.59
42:BG:7:LEU:HB2	42:BG:104:GLU:OE2	2.02	0.59
42:BG:117:PHE:HZ	42:BG:179:PRO:CB	2.13	0.59
49:BQ:50:ALA:O	49:BQ:51:ARG:C	2.43	0.59
52:BT:82:LEU:H	52:BT:82:LEU:CD1	2.03	0.59
1:CA:186:C:O3'	20:CT:82:SER:HB3	2.02	0.59
1:CA:242:C:H2'	1:CA:243:A:H5'	1.84	0.59
1:CA:295:C:O2'	1:CA:296:U:H5'	2.02	0.59
1:CA:880:C:H2'	1:CA:881:G:H8	1.66	0.59
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.02	0.59
1:CA:1226:C:H6	13:CM:103:THR:OG1	1.85	0.59
1:CA:1316:G:C3'	1:CA:1317:C:H5''	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1507:A:H5''	1:CA:1507:A:C8	2.36	0.59
2:CB:87:ARG:NH2	2:CB:233:SER:N	2.49	0.59
3:CC:18:TRP:HE1	14:CN:55:GLY:N	2.00	0.59
3:CC:90:GLU:O	3:CC:93:LYS:HB3	2.02	0.59
4:CD:138:TYR:HD2	4:CD:139:ARG:N	1.99	0.59
5:CE:148:VAL:C	5:CE:150:ARG:H	2.08	0.59
18:CR:24:ALA:C	18:CR:26:LEU:H	2.09	0.59
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.32	0.59
36:DA:426:C:O2'	36:DA:427:U:H5'	2.02	0.59
36:DA:777:A:H2'	36:DA:778:G:C8	2.36	0.59
36:DA:1304:C:O2'	36:DA:1305:C:H5'	2.02	0.59
36:DA:1386:C:H6	36:DA:1386:C:H3'	1.67	0.59
36:DA:1639:U:H2'	36:DA:1640:C:C5'	2.32	0.59
36:DA:1669:A:H2'	36:DA:1670:C:H5'	1.83	0.59
36:DA:2051:A:H5'	36:DA:2578:G:O4'	2.03	0.59
36:DA:2068:U:N3	36:DA:2430:A:C2	2.57	0.59
36:DA:2331:G:N2	36:DA:2385:C:C4	2.70	0.59
36:DA:2699:C:O2'	36:DA:2700:C:H5'	2.02	0.59
36:DA:2786:U:O2'	40:DE:62:PRO:HA	2.02	0.59
38:DC:45:ALA:O	38:DC:171:ILE:HG22	2.02	0.59
39:DD:35:LYS:HG2	39:DD:63:ARG:CG	2.30	0.59
39:DD:35:LYS:N	39:DD:36:PRO:HD2	2.16	0.59
40:DE:31:CYS:CB	40:DE:49:LEU:HD12	2.32	0.59
42:DG:125:PHE:C	42:DG:127:GLY:N	2.61	0.59
48:DP:126:VAL:HG22	48:DP:145:PRO:CB	2.32	0.59
50:DR:21:TYR:HB3	50:DR:47:PHE:CE2	2.37	0.59
52:DT:13:ARG:HH22	52:DT:15:VAL:HG11	1.67	0.59
53:DU:66:ASN:CG	53:DU:76:TYR:HB2	2.26	0.59
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.17	0.59
55:DW:2:GLU:CA	55:DW:64:MET:HE1	2.32	0.59
1:AA:691:G:H2'	1:AA:692:U:C6	2.38	0.59
1:AA:1060:C:H5''	10:AJ:51:ARG:HB3	1.83	0.59
1:AA:1298:C:C4	7:AG:114:ARG:HD2	2.38	0.59
5:AE:64:ARG:CZ	5:AE:64:ARG:HB2	2.33	0.59
7:AG:42:ILE:HG23	7:AG:117:ALA:CA	2.30	0.59
7:AG:143:ARG:O	7:AG:144:MET:C	2.46	0.59
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.66	0.59
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.37	0.59
17:AQ:47:PRO:HG2	17:AQ:48:GLU:H	1.67	0.59
20:AT:57:ARG:HH12	20:AT:103:GLY:H	1.49	0.59
34:B8:28:GLY:O	34:B8:32:LEU:HD23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:271(D):G:H2'	36:BA:271(E):U:O4'	2.02	0.59
36:BA:428:A:H3'	36:BA:429:A:H8	1.67	0.59
36:BA:968:G:H2'	36:BA:969:U:H6	1.65	0.59
36:BA:1526:G:O2'	36:BA:1527:G:H5'	2.01	0.59
36:BA:1784:A:H4'	36:BA:1785:A:O5'	2.02	0.59
36:BA:1805:U:H4'	39:BD:250:TRP:CZ2	2.37	0.59
36:BA:1899:G:H21	36:BA:1902:C:H41	1.48	0.59
36:BA:2626:C:H2'	36:BA:2627:G:C8	2.37	0.59
39:BD:11:PRO:C	39:BD:13:ARG:H	2.10	0.59
40:BE:69:LYS:HE2	40:BE:69:LYS:N	2.17	0.59
41:BF:6:VAL:HG12	41:BF:7:TYR:N	2.12	0.59
41:BF:20:LEU:H	41:BF:24:LEU:HD21	1.68	0.59
42:BG:57:ALA:HB2	42:BG:90:LEU:HD21	1.84	0.59
42:BG:139:LEU:HD22	42:BG:146:TYR:HB2	1.85	0.59
51:BS:94:TYR:O	51:BS:95:HIS:CB	2.48	0.59
54:BV:3:ALA:CB	54:BV:14:VAL:HG23	2.32	0.59
1:CA:80:G:C2	1:CA:90:U:H5'	2.38	0.59
1:CA:102:G:O2'	1:CA:103:C:H5'	2.01	0.59
1:CA:769:G:C2'	1:CA:770:C:H5'	2.32	0.59
1:CA:1046:A:H3'	1:CA:1047:G:H8	1.67	0.59
1:CA:1369:C:H2'	1:CA:1370:G:O4'	2.02	0.59
2:CB:7:VAL:CA	2:CB:11:LEU:HG	2.32	0.59
3:CC:206:GLU:O	3:CC:208:ILE:N	2.35	0.59
4:CD:67:ILE:HG22	4:CD:68:TYR:CD1	2.36	0.59
5:CE:37:ARG:O	5:CE:38:GLN:HG2	2.03	0.59
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.42	0.59
14:CN:3:ARG:O	14:CN:3:ARG:HG2	2.01	0.59
17:CQ:10:VAL:HG21	17:CQ:55:ASP:HB2	1.84	0.59
22:CW:8:U:O2'	22:CW:9:A:H5''	2.01	0.59
36:DA:34:C:H41	36:DA:447:A:N6	1.98	0.59
36:DA:669:G:C2	36:DA:801:G:C6	2.90	0.59
36:DA:916:G:O2'	36:DA:917:A:H5''	2.02	0.59
36:DA:1038:C:C2'	36:DA:1039:G:H5''	2.32	0.59
36:DA:1057:A:C2	36:DA:1058:G:H1'	2.37	0.59
36:DA:1132:A:H2'	36:DA:1133:U:H6	1.67	0.59
36:DA:1409:C:H2'	36:DA:1410:G:C8	2.36	0.59
36:DA:2476:A:H2	36:DA:2477:C:C6	2.21	0.59
36:DA:2781:A:H5'	36:DA:2782:G:H5'	1.84	0.59
38:DC:20:TYR:HB3	38:DC:24:GLU:HB3	1.85	0.59
38:DC:30:LYS:HA	38:DC:30:LYS:NZ	2.17	0.59
39:DD:9:TYR:CD2	39:DD:10:THR:HG22	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:126:GLN:HG3	39:DD:129:ASN:ND2	2.18	0.59
40:DE:82:ARG:HG3	40:DE:82:ARG:NH1	2.15	0.59
42:DG:112:PRO:O	42:DG:114:ILE:N	2.35	0.59
43:DH:66:GLY:HA2	43:DH:69:ARG:HE	1.66	0.59
51:DS:37:ALA:HB2	51:DS:99:LYS:HZ1	1.65	0.59
53:DU:92:ARG:NH2	54:DV:10:LYS:HA	2.17	0.59
55:DW:12:ILE:CB	55:DW:42:ARG:HH12	2.14	0.59
55:DW:95:ILE:O	55:DW:95:ILE:HG13	2.03	0.59
56:DX:56:THR:HG22	56:DX:79:ALA:HB1	1.83	0.59
1:AA:449:C:H3'	1:AA:450:G:H8	1.68	0.59
1:AA:649:G:O2'	1:AA:650:G:H5'	2.03	0.59
1:AA:939:G:H1	1:AA:1344:C:H42	1.50	0.59
1:AA:1054:C:H6	1:AA:1196:U:C5	2.20	0.59
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.85	0.59
3:AC:15:THR:HG22	3:AC:16:ARG:N	2.18	0.59
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.00	0.59
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.30	0.59
8:AH:2:LEU:HD22	8:AH:3:THR:N	2.16	0.59
12:AL:83:VAL:HG12	12:AL:84:LEU:H	1.66	0.59
15:AO:8:LYS:O	15:AO:9:GLN:C	2.45	0.59
27:B1:45:ASN:HB3	27:B1:64:ALA:CB	2.28	0.59
27:B1:70:VAL:O	27:B1:73:LEU:HD12	2.03	0.59
36:BA:621:A:H2'	36:BA:622:G:C5'	2.32	0.59
36:BA:621:A:H2'	36:BA:622:G:H5'	1.85	0.59
36:BA:738:G:C2'	36:BA:739:G:H5'	2.32	0.59
36:BA:973:A:H5'	36:BA:1188:U:H1'	1.84	0.59
36:BA:1060:U:H1'	36:BA:1061:U:C5'	2.32	0.59
36:BA:1351:C:H2'	36:BA:1352:U:C6	2.38	0.59
36:BA:1503:U:C6	36:BA:1504:C:H5	2.21	0.59
36:BA:2189:U:H2'	36:BA:2190:G:O4'	2.02	0.59
36:BA:2311:A:C2	42:BG:80:PHE:HB3	2.37	0.59
36:BA:2312:U:H2'	36:BA:2313:C:C5'	2.32	0.59
37:BB:5:C:H2'	37:BB:6:C:H6	1.66	0.59
38:BC:30:LYS:HA	38:BC:30:LYS:NZ	2.17	0.59
39:BD:2:ALA:O	39:BD:3:VAL:O	2.21	0.59
44:BJ:114:UNK:O	44:BJ:115:UNK:CB	2.50	0.59
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.16	0.59
56:BX:18:TYR:HA	56:BX:21:PHE:CE1	2.38	0.59
1:CA:8:A:C5'	5:CE:120:THR:O	2.51	0.59
1:CA:824:C:H2'	1:CA:825:G:H8	1.66	0.59
1:CA:863:U:H2'	1:CA:864:A:H5''	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:923:A:C5'	5:CE:21:ALA:HB2	2.31	0.59
1:CA:1324:A:C4'	1:CA:1362:C:H4'	2.32	0.59
1:CA:1403:C:O5'	1:CA:1403:C:C6	2.55	0.59
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.17	0.59
8:CH:109:ILE:CG2	8:CH:137:VAL:HB	2.33	0.59
11:CK:95:ILE:O	11:CK:98:LEU:N	2.35	0.59
15:CO:18:PHE:CD1	15:CO:18:PHE:O	2.56	0.59
36:DA:28:A:N6	36:DA:512:G:O2'	2.35	0.59
36:DA:47:C:C4	36:DA:48:G:N7	2.69	0.59
36:DA:554:U:H2'	36:DA:555:U:C6	2.37	0.59
36:DA:1138:G:C2	36:DA:1139:G:H1'	2.38	0.59
36:DA:1288:U:C2	36:DA:1327:C:O2	2.55	0.59
36:DA:1331:A:HO2'	36:DA:1332:G:H8	1.50	0.59
36:DA:1340:U:O2	36:DA:1603:A:C8	2.55	0.59
36:DA:1344:G:H4'	36:DA:1384:A:C5	2.37	0.59
36:DA:1847:A:N3	36:DA:1847:A:H2'	2.17	0.59
36:DA:1902:C:H5''	39:DD:246:PRO:CD	2.32	0.59
36:DA:2048:G:C2	36:DA:2621:A:C2	2.91	0.59
36:DA:2313:C:H5'	36:DA:2313:C:H6	1.67	0.59
37:DB:43:C:O2	42:DG:95:ARG:NE	2.32	0.59
38:DC:100:ILE:O	38:DC:104:LEU:HD23	2.02	0.59
39:DD:61:LEU:O	39:DD:63:ARG:NH1	2.35	0.59
40:DE:52:LEU:HB3	40:DE:76:ARG:H	1.67	0.59
40:DE:167:VAL:HG21	40:DE:187:ALA:O	2.01	0.59
43:DH:94:TYR:CE2	43:DH:152:ARG:HG2	2.37	0.59
43:DH:156:ALA:C	43:DH:158:HIS:H	2.09	0.59
50:DR:42:LYS:O	50:DR:45:ARG:N	2.27	0.59
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.32	0.59
56:DX:11:PRO:HG2	56:DX:13:LEU:HG	1.83	0.59
1:AA:9:G:H5''	5:AE:122:GLU:OE1	2.01	0.59
1:AA:254:G:O2'	1:AA:255:G:H5'	2.02	0.59
1:AA:473:G:H5''	16:AP:81:ARG:NE	2.18	0.59
1:AA:784:C:H4'	36:BA:1837:C:OP1	2.03	0.59
1:AA:1200:C:O2'	1:AA:1201:A:P	2.60	0.59
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.65	0.59
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.65	0.59
11:AK:110:ASP:CB	18:AR:85:LEU:HD23	2.32	0.59
12:AL:37:CYS:O	12:AL:80:HIS:HA	2.02	0.59
13:AM:108:ARG:HH11	13:AM:108:ARG:CB	2.15	0.59
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.17	0.59
22:AW:17:C:H42	36:BA:2110:G:H21	1.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:139:ASP:OD2	25:AZ:177:LEU:HD21	2.03	0.59
32:B6:10:LEU:H	32:B6:10:LEU:HD22	1.68	0.59
33:B7:38:GLY:O	36:BA:458:G:H3'	2.03	0.59
36:BA:472:A:H8	36:BA:472:A:H5'	1.67	0.59
36:BA:711:G:H1	36:BA:720:C:N4	1.98	0.59
36:BA:828:U:C5	36:BA:829:A:N6	2.70	0.59
36:BA:1747(A):G:H2'	36:BA:1748:G:H5''	1.84	0.59
36:BA:1783:A:N1	36:BA:2587:A:C2	2.71	0.59
36:BA:2312:U:O2'	36:BA:2313:C:H5''	2.02	0.59
36:BA:2781:A:H5'	36:BA:2782:G:H5'	1.82	0.59
37:BB:65:C:H2'	37:BB:109:C:N4	2.16	0.59
39:BD:27:THR:HG23	39:BD:27:THR:O	2.01	0.59
41:BF:117:ARG:HG2	41:BF:192:LEU:CD1	2.33	0.59
50:BR:99:LYS:H	50:BR:99:LYS:CD	2.02	0.59
51:BS:37:ALA:HB2	51:BS:99:LYS:HZ1	1.66	0.59
54:BV:49:THR:O	54:BV:50:PRO:C	2.45	0.59
57:BY:37:VAL:CG2	57:BY:38:ILE:H	2.09	0.59
1:CA:190:U:O2'	1:CA:191:G:H5'	2.01	0.59
1:CA:246:A:O3'	1:CA:247:G:H4'	2.02	0.59
1:CA:585:G:H2'	1:CA:586:C:C6	2.38	0.59
1:CA:1008:C:H42	1:CA:1021:G:H1	1.50	0.59
1:CA:1495:U:O2'	36:DA:1919:A:N1	2.36	0.59
2:CB:130:ARG:NH2	2:CB:131:PRO:HD2	2.18	0.59
5:CE:64:ARG:HB2	5:CE:64:ARG:CZ	2.32	0.59
8:CH:14:ARG:HH11	8:CH:14:ARG:HB2	1.68	0.59
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.16	0.59
11:CK:13:GLN:HG2	11:CK:75:TYR:O	2.02	0.59
15:CO:82:ILE:HD13	15:CO:83:GLU:N	2.17	0.59
19:CS:11:VAL:HG13	19:CS:11:VAL:O	2.02	0.59
24:CY:54:5MU:C2'	24:CY:55:PSU:H5'	2.31	0.59
26:D0:24:LYS:HD2	36:DA:2355:C:H4'	1.84	0.59
27:D1:50:ARG:HH22	36:DA:2200:C:H5'	1.65	0.59
36:DA:7:G:N2	36:DA:8:A:H1'	2.17	0.59
36:DA:568:U:C6	36:DA:570:G:OP2	2.56	0.59
36:DA:1011:G:O2'	36:DA:1013:C:H5''	2.03	0.59
36:DA:1278:A:C2	36:DA:1293:C:N3	2.70	0.59
36:DA:1658:C:C2	36:DA:1659:U:C5	2.90	0.59
36:DA:2529:G:H5''	36:DA:2530:A:H5''	1.84	0.59
36:DA:2540:C:O2'	36:DA:2541:A:H5'	2.03	0.59
36:DA:2630:G:H1'	36:DA:2894:G:H1'	1.84	0.59
38:DC:58:VAL:HG22	38:DC:201:PRO:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:24:ILE:CG1	39:DD:25:THR:N	2.64	0.59
40:DE:47:VAL:HG21	40:DE:86:PRO:CD	2.32	0.59
40:DE:178:GLU:HG3	40:DE:179:GLU:N	2.16	0.59
41:DF:185:ASP:HA	41:DF:188:ARG:HD3	1.85	0.59
43:DH:12:PRO:O	43:DH:15:VAL:HG22	2.02	0.59
43:DH:33:LEU:HD21	43:DH:136:ILE:HG22	1.83	0.59
43:DH:149:ARG:HD3	43:DH:164:TYR:CD1	2.37	0.59
43:DH:155:SER:O	43:DH:157:TYR:N	2.36	0.59
48:DP:52:GLU:HA	48:DP:52:GLU:OE1	2.03	0.59
53:DU:88:ILE:C	53:DU:90:VAL:N	2.61	0.59
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.17	0.59
55:DW:12:ILE:CD1	55:DW:42:ARG:NH1	2.62	0.59
1:AA:200:G:H1	1:AA:217:C:N4	2.01	0.59
1:AA:225:C:H2'	1:AA:226:G:C8	2.37	0.59
1:AA:573:A:OP2	1:AA:574:A:OP2	2.21	0.59
1:AA:665:A:H2'	1:AA:725:G:H22	1.66	0.59
1:AA:673:G:H2'	1:AA:674:G:C8	2.38	0.59
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.02	0.59
1:AA:1442(A):G:H3'	52:BT:118:ARG:HH11	1.67	0.59
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.27	0.59
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD2	1.85	0.59
15:AO:9:GLN:O	15:AO:10:LYS:C	2.44	0.59
25:AZ:285:ASN:N	25:AZ:285:ASN:HD22	2.00	0.59
25:AZ:315:LYS:HB3	25:AZ:404:LEU:HB2	1.84	0.59
28:B2:12:GLU:O	28:B2:16:LEU:HG	2.02	0.59
36:BA:271(D):G:O2'	36:BA:271(E):U:H5'	2.02	0.59
36:BA:792:G:H2'	36:BA:2440:C:O2	2.03	0.59
36:BA:1091:G:H2'	36:BA:1092:C:H6	1.67	0.59
36:BA:2292:C:O2'	36:BA:2293:C:H5'	2.02	0.59
36:BA:2562:U:C2'	36:BA:2563:U:H5'	2.33	0.59
36:BA:2582:G:N3	36:BA:2582:G:H2'	2.17	0.59
36:BA:2786:U:O2'	40:BE:62:PRO:HA	2.02	0.59
38:BC:21:THR:HB	38:BC:228:SER:HB2	1.85	0.59
38:BC:83:ILE:HD11	38:BC:97:GLU:OE2	2.02	0.59
38:BC:116:THR:O	38:BC:120:MET:HE2	2.03	0.59
39:BD:85:ASP:OD2	39:BD:88:ARG:NH1	2.36	0.59
40:BE:52:LEU:HB3	40:BE:76:ARG:H	1.68	0.59
46:BN:24:GLY:C	46:BN:26:LEU:H	2.11	0.59
46:BN:46:VAL:CG1	46:BN:48:MET:HG3	2.33	0.59
48:BP:115:LEU:HG	48:BP:116:GLY:N	2.17	0.59
50:BR:116:LEU:O	50:BR:117:VAL:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:89:ARG:O	51:BS:92:TYR:HB3	2.01	0.59
51:BS:102:ALA:O	51:BS:103:GLU:HG2	2.02	0.59
52:BT:64:ARG:HH11	52:BT:102:ILE:HD11	1.68	0.59
58:BZ:28:MET:SD	58:BZ:35:ARG:O	2.60	0.59
58:BZ:118:GLN:NE2	58:BZ:120:ILE:HD11	2.17	0.59
1:CA:116:A:H2'	1:CA:117:G:O4'	2.02	0.59
1:CA:165:C:O2'	1:CA:166:G:H5'	2.03	0.59
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.38	0.59
1:CA:601:C:H2'	1:CA:602:A:C8	2.37	0.59
1:CA:829:G:O2'	1:CA:830:G:H5'	2.02	0.59
1:CA:973:G:H3'	1:CA:974:A:H5''	1.82	0.59
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.68	0.59
1:CA:1207:G:H2'	1:CA:1208:C:H6	1.68	0.59
2:CB:121:LEU:O	2:CB:122:PHE:C	2.44	0.59
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.03	0.59
3:CC:147:LYS:O	3:CC:172:ARG:HB2	2.02	0.59
4:CD:95:GLY:O	4:CD:98:GLU:N	2.32	0.59
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.02	0.59
7:CG:138:LYS:O	7:CG:142:GLU:HG3	2.03	0.59
9:CI:53:VAL:HG11	9:CI:92:TYR:CE2	2.38	0.59
12:CL:32:PHE:HB3	12:CL:84:LEU:CD2	2.32	0.59
36:DA:428:A:H3'	36:DA:429:A:C8	2.38	0.59
36:DA:645:C:H3'	36:DA:645:C:O2	2.03	0.59
36:DA:979:G:H21	36:DA:985:C:H42	1.50	0.59
36:DA:1342:A:OP2	36:DA:1602:U:O4	2.21	0.59
36:DA:1991:U:C2'	36:DA:1992:G:H5''	2.31	0.59
36:DA:2073:C:O2'	36:DA:2074:U:H5'	2.02	0.59
36:DA:2219:G:C2'	36:DA:2220:G:H5'	2.32	0.59
36:DA:2675:A:H5'	47:DO:31:LYS:HZ2	1.67	0.59
36:DA:2762:G:H8	36:DA:2762:G:C5'	2.15	0.59
46:DN:3:THR:CG2	46:DN:4:TYR:H	2.13	0.59
46:DN:6:PRO:O	46:DN:7:LYS:O	2.20	0.59
46:DN:36:GLY:H	46:DN:49:GLY:HA2	1.66	0.59
48:DP:91:PHE:N	48:DP:91:PHE:CD1	2.70	0.59
50:DR:14:SER:HA	50:DR:17:ARG:NH1	2.18	0.59
52:DT:13:ARG:NE	52:DT:13:ARG:CA	2.65	0.59
55:DW:82:LEU:HB3	55:DW:84:ARG:NH1	2.17	0.59
56:DX:65:ARG:O	56:DX:66:LEU:HB2	2.02	0.59
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.32	0.59
58:DZ:91:LEU:N	58:DZ:91:LEU:HD23	2.17	0.59
1:AA:9:G:H1	1:AA:25:C:H42	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.33	0.59
3:AC:48:TYR:C	3:AC:50:ALA:H	2.11	0.59
3:AC:120:VAL:CG1	3:AC:121:ALA:N	2.66	0.59
4:AD:17:VAL:HG21	4:AD:63:LYS:NZ	2.17	0.59
5:AE:150:ARG:HH11	5:AE:150:ARG:CB	2.14	0.59
8:AH:2:LEU:HD22	8:AH:3:THR:H	1.66	0.59
8:AH:45:ILE:HG21	8:AH:61:VAL:CG1	2.32	0.59
9:AI:48:GLU:HB3	9:AI:101:PHE:CE2	2.38	0.59
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.30	0.59
24:AY:24:G:H2'	24:AY:25:C:C6	2.37	0.59
25:AZ:19:HIS:HA	25:AZ:115:GLN:HB2	1.83	0.59
25:AZ:188:THR:HG23	25:AZ:192:GLU:OE2	2.02	0.59
25:AZ:195:TRP:O	25:AZ:199:ILE:HG12	2.02	0.59
29:B3:3:ARG:HB2	29:B3:59:VAL:O	2.02	0.59
36:BA:183:C:H5'	36:BA:433:C:H4'	1.83	0.59
36:BA:531:C:C5	36:BA:2035:G:C2	2.91	0.59
36:BA:586:A:H5'	41:BF:89:VAL:HG21	1.84	0.59
36:BA:763:G:C4	36:BA:765:G:C8	2.91	0.59
36:BA:1099:G:H8	36:BA:1099:G:O5'	1.86	0.59
36:BA:1141:U:C5	46:BN:64:GLY:HA3	2.38	0.59
36:BA:1244:G:H4'	48:BP:11:GLY:HA2	1.84	0.59
36:BA:1386:C:H6	36:BA:1386:C:H3'	1.66	0.59
36:BA:1541:G:H4'	36:BA:1542:A:O5'	2.03	0.59
36:BA:1573:G:H2'	36:BA:1574:C:H5'	1.83	0.59
36:BA:1651:G:H4'	50:BR:39:PRO:HG2	1.85	0.59
36:BA:1892:C:H2'	36:BA:1893:C:C6	2.38	0.59
36:BA:2012:G:H4'	55:BW:96:ILE:CD1	2.18	0.59
36:BA:2337:G:H2'	36:BA:2338:G:C8	2.37	0.59
36:BA:2444:G:OP1	41:BF:68:LYS:HE3	2.02	0.59
36:BA:2494:G:O2'	49:BQ:80:GLU:HA	2.01	0.59
36:BA:2777:G:H4'	36:BA:2778:A:H5'	1.84	0.59
37:BB:15:A:H1'	37:BB:110:G:C5	2.38	0.59
42:BG:68:PRO:HG3	42:BG:92:VAL:HB	1.83	0.59
42:BG:121:ASN:OD1	42:BG:123:ASN:C	2.46	0.59
50:BR:59:ASP:O	50:BR:61:HIS:N	2.36	0.59
58:BZ:117:LEU:HD12	58:BZ:173:ALA:O	2.02	0.59
1:CA:151:A:H2'	1:CA:152:A:H5'	1.83	0.59
1:CA:1312:G:H2'	1:CA:1313:U:C6	2.38	0.59
1:CA:1426:C:H2'	1:CA:1427:U:C6	2.37	0.59
3:CC:120:VAL:HG12	3:CC:121:ALA:N	2.17	0.59
4:CD:138:TYR:HD2	4:CD:138:TYR:C	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:145:LYS:O	5:CE:148:VAL:HB	2.03	0.59
8:CH:19:VAL:O	8:CH:20:TYR:C	2.45	0.59
25:CZ:221:PHE:O	25:CZ:222:LEU:HB2	2.02	0.59
28:D2:47:ASN:HD21	36:DA:94(A):G:H21	1.48	0.59
36:DA:45:C:H42	36:DA:179:G:H1	1.51	0.59
36:DA:149:A:C2	36:DA:150:C:C2	2.91	0.59
36:DA:483:A:O3'	57:DY:49:VAL:HG22	2.03	0.59
36:DA:588:U:H1'	41:DF:90:PHE:CG	2.36	0.59
36:DA:1771:C:C4	36:DA:1772:G:N7	2.70	0.59
36:DA:1882:C:H5'	36:DA:1883:G:OP2	2.03	0.59
36:DA:2062:A:O2'	36:DA:2063:C:H5'	2.02	0.59
36:DA:2810:A:C8	36:DA:2811:G:H1'	2.38	0.59
37:DB:78:A:C6	37:DB:100:A:C8	2.90	0.59
38:DC:196:LEU:O	38:DC:197:GLU:C	2.46	0.59
38:DC:215:THR:OG1	38:DC:216:THR:N	2.26	0.59
42:DG:5:VAL:CG1	42:DG:6:ALA:N	2.66	0.59
42:DG:173:LEU:HD22	42:DG:178:PHE:CZ	2.37	0.59
49:DQ:135:ASP:O	49:DQ:138:ASP:OD2	2.19	0.59
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.85	0.59
51:DS:94:TYR:O	51:DS:95:HIS:CB	2.49	0.59
51:DS:102:ALA:O	51:DS:103:GLU:HG2	2.02	0.59
57:DY:39:VAL:CG1	57:DY:40:GLU:H	2.09	0.59
1:AA:1468:A:H2'	1:AA:1469:G:C1'	2.31	0.59
2:AB:73:THR:O	2:AB:74:LYS:C	2.46	0.59
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.32	0.59
3:AC:53:ALA:HB2	3:AC:115:LEU:CG	2.33	0.59
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.84	0.59
4:AD:67:ILE:HG22	4:AD:68:TYR:CD1	2.37	0.59
11:AK:95:ILE:O	11:AK:98:LEU:N	2.35	0.59
11:AK:124:LYS:NZ	11:AK:124:LYS:CB	2.66	0.59
16:AP:20:VAL:HA	16:AP:36:ILE:CG1	2.33	0.59
20:AT:8:ARG:HG3	20:AT:8:ARG:HH11	1.68	0.59
27:B1:82:LEU:C	27:B1:83:GLU:HG3	2.27	0.59
28:B2:10:LEU:CD2	28:B2:14:ARG:HG3	2.33	0.59
28:B2:33:MET:HE2	56:BX:5:TYR:CD2	2.38	0.59
28:B2:54:LYS:O	28:B2:57:ILE:HG12	2.03	0.59
35:B9:10:ILE:O	35:B9:11:CYS:SG	2.60	0.59
36:BA:28:A:N6	36:BA:512:G:O2'	2.36	0.59
36:BA:47:C:C4	36:BA:48:G:N7	2.71	0.59
36:BA:996:A:H1'	53:BU:92:ARG:HE	1.68	0.59
36:BA:1038:C:C2'	36:BA:1039:G:H5''	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1269:A:H61	36:BA:2011:U:H3	1.50	0.59
36:BA:1364:G:H5''	36:BA:1365:A:OP2	2.02	0.59
36:BA:1661:G:O2'	36:BA:1662:C:H5'	2.03	0.59
36:BA:1708:C:H2'	36:BA:1709:U:H6	1.68	0.59
36:BA:1788:C:O2'	36:BA:1789:A:H5'	2.03	0.59
36:BA:2101:G:H22	36:BA:2189:U:H3	1.50	0.59
36:BA:2475:C:H42	36:BA:2529:G:N2	2.00	0.59
36:BA:2533:A:C2'	36:BA:2534:A:H5'	2.33	0.59
38:BC:20:TYR:HB3	38:BC:24:GLU:HB2	1.84	0.59
38:BC:131:LEU:HD22	38:BC:136:LEU:CD1	2.33	0.59
39:BD:149:PRO:CG	39:BD:186:HIS:HD2	2.16	0.59
42:BG:34:LEU:CA	42:BG:161:THR:HG22	2.29	0.59
43:BH:30:LYS:HE2	43:BH:30:LYS:HA	1.84	0.59
43:BH:33:LEU:HD21	43:BH:136:ILE:HG22	1.83	0.59
46:BN:46:VAL:O	46:BN:47:ALA:HB3	2.02	0.59
49:BQ:22:LYS:N	58:BZ:78:LYS:HE3	2.12	0.59
56:BX:11:PRO:HG2	56:BX:13:LEU:HG	1.85	0.59
1:CA:291:C:O2'	1:CA:292:G:H5'	2.03	0.59
1:CA:377:G:OP1	16:CP:5:ARG:HD3	2.02	0.59
1:CA:448:A:H2'	1:CA:449:C:C6	2.38	0.59
1:CA:1060:C:C5'	10:CJ:51:ARG:HB3	2.33	0.59
1:CA:1317:C:C2'	1:CA:1318:A:H5'	2.33	0.59
1:CA:1363(A):A:H4'	1:CA:1364:U:OP1	2.00	0.59
4:CD:78:LEU:O	4:CD:78:LEU:HD23	2.02	0.59
4:CD:155:LEU:O	4:CD:159:ARG:HG2	2.03	0.59
7:CG:94:ARG:O	7:CG:97:GLN:N	2.35	0.59
8:CH:109:ILE:CG1	8:CH:110:ALA:H	2.09	0.59
12:CL:37:CYS:O	12:CL:80:HIS:HA	2.02	0.59
16:CP:14:ASN:CA	16:CP:42:ARG:HH12	2.12	0.59
20:CT:89:ARG:HB2	20:CT:104:LEU:CD1	2.31	0.59
28:D2:2:LYS:CB	36:DA:97:C:H5''	2.26	0.59
28:D2:38:GLN:HB3	28:D2:44:LEU:CG	2.32	0.59
36:DA:401:A:H2'	36:DA:402:A:C8	2.36	0.59
36:DA:416:C:C2'	36:DA:417:C:H5'	2.32	0.59
36:DA:1301:A:H4'	36:DA:1302:A:OP1	2.03	0.59
36:DA:1722:A:O2'	36:DA:1739:U:C5'	2.51	0.59
36:DA:1801:G:H3'	36:DA:1802:A:H5'	1.85	0.59
36:DA:2131:G:OP1	36:DA:2132:U:H3'	2.02	0.59
36:DA:2290:G:H2'	36:DA:2291:U:O4'	2.03	0.59
36:DA:2315:G:H2'	36:DA:2316:C:C6	2.38	0.59
38:DC:195:ALA:O	38:DC:198:ALA:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:44:ASN:OD1	39:DD:44:ASN:N	2.35	0.59
39:DD:223:GLY:HA2	39:DD:226:MET:SD	2.43	0.59
40:DE:117:MET:HA	40:DE:122:PHE:H	1.67	0.59
42:DG:88:ILE:HG22	42:DG:89:GLY:N	2.18	0.59
49:DQ:140:ALA:O	49:DQ:141:GLN:HG2	2.02	0.59
52:DT:13:ARG:NH2	52:DT:15:VAL:HG11	2.18	0.59
53:DU:79:PHE:O	53:DU:83:LEU:HD13	2.01	0.59
56:DX:18:TYR:O	56:DX:20:GLY:N	2.36	0.59
57:DY:9:LYS:CE	57:DY:94:LYS:HE2	2.33	0.59
1:AA:274:A:H4'	1:AA:275:G:OP1	2.02	0.59
1:AA:452:A:HO2'	1:AA:453:A:H8	1.51	0.59
1:AA:495:A:H61	4:AD:119:GLN:HE22	1.50	0.59
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.32	0.59
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.01	0.59
2:AB:154:LEU:HD23	2:AB:156:LYS:NZ	2.18	0.59
5:AE:125:SER:O	5:AE:126:ARG:HG3	2.02	0.59
8:AH:25:ASP:O	8:AH:26:VAL:CB	2.51	0.59
12:AL:84:LEU:HD23	12:AL:85:ILE:H	1.67	0.59
13:AM:108:ARG:HH11	13:AM:108:ARG:CA	2.16	0.59
18:AR:69:THR:O	18:AR:70:ILE:C	2.46	0.59
26:B0:56:ASP:OD1	26:B0:56:ASP:O	2.21	0.59
27:B1:26:ARG:HG3	27:B1:27:GLU:H	1.67	0.59
32:B6:32:ASN:O	32:B6:33:LYS:HB2	2.03	0.59
35:B9:2:LYS:HE2	36:BA:2526:G:H1'	1.84	0.59
36:BA:38:A:O2'	36:BA:39:C:H5'	2.02	0.59
36:BA:858:U:O2	36:BA:2268:A:H2'	2.02	0.59
36:BA:1190:G:H5'	48:BP:35:HIS:H	1.66	0.59
36:BA:1600:C:H2'	36:BA:1601:G:C8	2.38	0.59
36:BA:1639:U:O2'	36:BA:2699:C:H4'	2.02	0.59
36:BA:1988:C:O2'	36:BA:1989:G:H5'	2.02	0.59
36:BA:2131:G:OP1	36:BA:2132:U:H3'	2.03	0.59
38:BC:81:GLU:C	38:BC:82:LYS:HE2	2.28	0.59
39:BD:44:ASN:HB2	39:BD:48:ARG:O	2.02	0.59
40:BE:103:ASP:HA	40:BE:168:MET:HA	1.83	0.59
47:BO:117:LEU:O	47:BO:118:ALA:C	2.46	0.59
49:BQ:135:ASP:O	49:BQ:138:ASP:OD2	2.20	0.59
51:BS:13:ARG:CG	51:BS:14:VAL:H	2.05	0.59
54:BV:19:LYS:HB2	54:BV:96:ILE:HD11	1.82	0.59
58:BZ:100:VAL:O	58:BZ:124:ILE:HG12	2.02	0.59
1:CA:68:G:H1	1:CA:101:A:H61	1.49	0.59
1:CA:673:G:H2'	1:CA:674:G:C8	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1124:G:H2'	1:CA:1145:C:H41	1.67	0.59
1:CA:1271:G:C5'	1:CA:1314:C:H5''	2.32	0.59
4:CD:71:SER:O	4:CD:72:GLU:C	2.44	0.59
8:CH:89:PRO:HA	8:CH:92:ARG:HD2	1.85	0.59
13:CM:108:ARG:HH11	13:CM:108:ARG:CA	2.15	0.59
20:CT:43:LEU:HB3	20:CT:48:LYS:HG3	1.83	0.59
24:CY:64:C:C4'	25:CZ:391:GLY:HA2	2.32	0.59
27:D1:14:VAL:CG2	36:DA:188:G:H5'	2.31	0.59
27:D1:25:LYS:HB2	36:DA:388:G:OP1	2.02	0.59
27:D1:82:LEU:C	27:D1:83:GLU:HG3	2.28	0.59
33:D7:19:ARG:HD3	36:DA:125:G:O5'	2.03	0.59
36:DA:30:G:H2'	36:DA:31:C:C6	2.37	0.59
36:DA:271(J):C:O2	36:DA:271(J):C:H2'	2.02	0.59
36:DA:381:G:C2	36:DA:394:A:C2	2.90	0.59
36:DA:473:G:O2'	36:DA:474:G:H5'	2.02	0.59
36:DA:769:G:H2'	36:DA:770:G:C8	2.37	0.59
36:DA:907:U:OP1	49:DQ:24:GLY:N	2.35	0.59
36:DA:1069:A:H1'	36:DA:1070:A:P	2.43	0.59
36:DA:1496:A:H1'	36:DA:1578:U:O2'	2.02	0.59
36:DA:1816:G:H8	39:DD:62:TYR:OH	1.86	0.59
36:DA:2065:C:H2'	36:DA:2066:C:C6	2.38	0.59
36:DA:2131:G:O4'	36:DA:2133:G:N2	2.33	0.59
36:DA:2292:C:O2'	36:DA:2293:C:H5'	2.02	0.59
36:DA:2393:A:H2'	36:DA:2394:C:H5'	1.84	0.59
36:DA:2584:U:H2'	36:DA:2585:U:H5'	1.85	0.59
39:DD:28:GLU:H	39:DD:29:PRO:CD	2.15	0.59
40:DE:120:TRP:NE1	40:DE:155:LYS:HB3	2.18	0.59
53:DU:52:ARG:HA	53:DU:55:ARG:NH1	2.18	0.59
53:DU:92:ARG:O	53:DU:93:LYS:C	2.46	0.59
1:AA:221:C:O2'	1:AA:222:U:H5'	2.02	0.59
1:AA:688:G:O2'	1:AA:689:C:H5'	2.03	0.59
3:AC:26:LYS:NZ	3:AC:27:LYS:HD2	2.18	0.59
3:AC:147:LYS:O	3:AC:172:ARG:HB2	2.03	0.59
4:AD:59:ARG:O	4:AD:63:LYS:HB2	2.03	0.59
4:AD:121:VAL:HG12	4:AD:134:ASP:CA	2.32	0.59
4:AD:128:VAL:O	4:AD:130:GLY:N	2.36	0.59
17:AQ:99:SER:O	17:AQ:100:LYS:HG3	2.02	0.59
34:B8:4:MET:HE3	34:B8:61:LEU:HD21	1.85	0.59
36:BA:20:C:H2'	36:BA:21:A:C8	2.37	0.59
36:BA:48:G:N2	36:BA:177:G:N2	2.50	0.59
36:BA:271(L):U:H5''	36:BA:271(M):G:C5'	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:860:U:C2'	36:BA:861:A:H5'	2.33	0.59
36:BA:1099:G:H2'	36:BA:1100:C:H6	1.68	0.59
36:BA:1747(A):G:C3'	36:BA:1748:G:H5''	2.32	0.59
36:BA:1812:A:O2'	36:BA:1813:G:H5'	2.02	0.59
36:BA:1971:A:C4	39:BD:241:PRO:HD3	2.38	0.59
36:BA:2631:G:H22	40:BE:61:ARG:NH1	2.00	0.59
36:BA:2712:U:O2'	36:BA:2713:A:H5'	2.03	0.59
36:BA:2715:C:O2'	36:BA:2716:U:H5'	2.03	0.59
36:BA:2772:C:H5'	40:BE:168:MET:CE	2.33	0.59
36:BA:2885:C:H2'	36:BA:2886:G:O4'	2.02	0.59
38:BC:100:ILE:O	38:BC:104:LEU:HD23	2.03	0.59
39:BD:77:ALA:CB	39:BD:97:TYR:HA	2.33	0.59
39:BD:243:GLY:O	39:BD:244:ARG:HB3	2.03	0.59
40:BE:1:MET:N	40:BE:84:PHE:HB2	2.17	0.59
40:BE:13:ARG:O	52:BT:57:PHE:HE1	1.85	0.59
40:BE:120:TRP:CG	40:BE:155:LYS:HE3	2.38	0.59
41:BF:40:GLN:HE22	41:BF:182:ASN:HB2	1.66	0.59
41:BF:57:VAL:CG1	41:BF:58:ALA:H	2.16	0.59
41:BF:157:VAL:HG22	41:BF:194:MET:HG2	1.85	0.59
43:BH:40:GLU:HB2	43:BH:64:LEU:CD1	2.33	0.59
43:BH:61:HIS:C	43:BH:63:SER:N	2.58	0.59
47:BO:52:VAL:C	47:BO:53:LYS:HD2	2.27	0.59
50:BR:21:TYR:HB3	50:BR:47:PHE:CD2	2.37	0.59
51:BS:24:LEU:CB	51:BS:85:VAL:HG12	2.33	0.59
51:BS:83:LYS:HG2	51:BS:105:ALA:CB	2.33	0.59
54:BV:15:GLU:O	54:BV:96:ILE:HB	2.03	0.59
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.18	0.59
57:BY:95:LYS:CG	57:BY:100:ALA:HA	2.27	0.59
58:BZ:52:SER:OG	58:BZ:53:ILE:HG12	2.03	0.59
1:CA:438:G:C4'	4:CD:123:HIS:HD1	2.16	0.59
1:CA:684:A:N3	11:CK:39:PRO:HG2	2.17	0.59
1:CA:770:C:C2'	1:CA:771:G:H5'	2.32	0.59
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.03	0.59
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.03	0.59
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.58	0.59
5:CE:102:ALA:CB	5:CE:106:PRO:HG2	2.28	0.59
8:CH:36:LEU:C	8:CH:38:ILE:H	2.11	0.59
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.03	0.59
22:CV:21:A:C2'	22:CV:22:G:H5''	2.33	0.59
32:D6:10:LEU:HD12	34:D8:34:TRP:HB2	1.85	0.59
36:DA:295:G:H5'	57:DY:3:VAL:HG22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1438:U:H2'	36:DA:1439:A:H8	1.68	0.59
36:DA:2306:C:C4'	42:DG:136:ARG:HH12	2.15	0.59
37:DB:25:A:H2'	37:DB:25:A:N3	2.18	0.59
39:DD:175:LEU:HD12	39:DD:185:VAL:CG2	2.33	0.59
39:DD:231:HIS:CD2	39:DD:249:PRO:HB3	2.37	0.59
40:DE:199:ARG:CZ	40:DE:199:ARG:HB2	2.33	0.59
41:DF:40:GLN:HE22	41:DF:182:ASN:HB2	1.68	0.59
41:DF:135:LYS:HB3	41:DF:138:GLU:CB	2.31	0.59
42:DG:117:PHE:CG	42:DG:118:ARG:N	2.71	0.59
48:DP:16:ARG:CD	48:DP:18:ARG:H	2.16	0.59
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	2.02	0.59
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.11	0.59
50:DR:83:ILE:HG22	50:DR:87:TYR:HE2	1.67	0.59
58:DZ:30:ASN:N	58:DZ:33:LEU:O	2.32	0.59
58:DZ:108:PRO:C	58:DZ:110:GLY:N	2.56	0.59
1:AA:971:G:H5''	1:AA:972:C:H5''	1.84	0.58
1:AA:1237:C:H4'	1:AA:1334:G:H22	1.67	0.58
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.02	0.58
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.83	0.58
4:AD:61:LYS:HE2	4:AD:65:ARG:HE	1.68	0.58
10:AJ:80:LYS:HB3	10:AJ:80:LYS:HZ3	1.67	0.58
11:AK:34:ASP:O	11:AK:36:ASP:N	2.34	0.58
11:AK:125:PHE:C	11:AK:127:LYS:H	2.10	0.58
13:AM:85:GLY:O	13:AM:86:CYS:C	2.46	0.58
20:AT:14:LYS:HA	20:AT:17:ARG:NH2	2.18	0.58
25:AZ:389:ARG:HG2	25:AZ:394:THR:HA	1.84	0.58
30:B4:14:ILE:HD12	30:B4:14:ILE:N	2.18	0.58
30:B4:40:HIS:CD2	30:B4:41:PRO:HA	2.37	0.58
32:B6:29:ASN:O	32:B6:30:THR:C	2.46	0.58
36:BA:568:U:C6	36:BA:570:G:OP2	2.55	0.58
36:BA:776:G:H4'	36:BA:777:A:O5'	2.02	0.58
36:BA:782:A:H4'	36:BA:783:A:O5'	2.03	0.58
36:BA:1247:A:OP2	48:BP:18:ARG:NH1	2.36	0.58
36:BA:1362:C:O2'	36:BA:1363:C:H5'	2.02	0.58
36:BA:1654:A:OP2	50:BR:3:HIS:HD2	1.85	0.58
36:BA:1763:G:N2	36:BA:1765:C:H5''	2.18	0.58
36:BA:1994:C:O2'	36:BA:1995:U:H5'	2.02	0.58
36:BA:2015:A:H2'	36:BA:2016:U:O4'	2.03	0.58
36:BA:2115:G:H22	36:BA:2119:A:P	2.25	0.58
36:BA:2304:G:H22	36:BA:2312:U:H3	1.49	0.58
36:BA:2543:G:H8	36:BA:2543:G:H5'	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2645:G:C3'	36:BA:2646:C:H5'	2.25	0.58
38:BC:131:LEU:HD22	38:BC:136:LEU:HD12	1.84	0.58
39:BD:76:PRO:O	39:BD:98:VAL:HG23	2.03	0.58
41:BF:124:LEU:HD22	41:BF:191:ARG:NH2	2.18	0.58
42:BG:92:VAL:HG13	42:BG:92:VAL:O	2.03	0.58
43:BH:74:ASN:OD1	43:BH:138:LYS:HD3	2.03	0.58
47:BO:50:GLY:C	47:BO:52:VAL:H	2.11	0.58
48:BP:40:SER:C	48:BP:41:ARG:HD2	2.28	0.58
53:BU:92:ARG:NH2	54:BV:10:LYS:HA	2.17	0.58
56:BX:48:LYS:O	56:BX:49:VAL:HG13	2.02	0.58
1:CA:353:A:H5'	1:CA:353:A:H8	1.68	0.58
1:CA:419:C:C2'	1:CA:420:U:H5'	2.33	0.58
1:CA:678:U:O2'	1:CA:679:C:H5'	2.03	0.58
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.38	0.58
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.68	0.58
1:CA:1498:U:C5	23:CX:20:U:H5'	2.38	0.58
2:CB:14:GLY:C	2:CB:15:VAL:HG22	2.28	0.58
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.15	0.58
4:CD:20:TYR:HA	4:CD:26:CYS:CB	2.33	0.58
5:CE:12:LEU:HD22	5:CE:12:LEU:C	2.28	0.58
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.28	0.58
7:CG:31:MET:CG	7:CG:32:ARG:H	2.16	0.58
8:CH:28:ALA:HB3	8:CH:57:PRO:O	2.02	0.58
10:CJ:50:ILE:HD11	14:CN:41:ARG:HD2	1.84	0.58
10:CJ:91:PRO:HB2	10:CJ:94:VAL:CB	2.29	0.58
10:CJ:97:GLU:HB3	10:CJ:99:LYS:HE2	1.84	0.58
11:CK:57:THR:HG22	11:CK:60:ALA:HB3	1.84	0.58
12:CL:17:LYS:NZ	12:CL:18:VAL:HG22	2.18	0.58
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.85	0.58
13:CM:85:GLY:O	13:CM:86:CYS:C	2.46	0.58
16:CP:12:LYS:C	16:CP:14:ASN:H	2.10	0.58
19:CS:45:VAL:HG12	19:CS:63:THR:O	2.03	0.58
20:CT:33:ILE:HG23	20:CT:63:ILE:HG12	1.83	0.58
20:CT:86:ARG:O	20:CT:90:GLN:HG2	2.03	0.58
25:CZ:300:ARG:O	25:CZ:302:GLN:N	2.35	0.58
26:D0:56:ASP:OD1	26:D0:56:ASP:O	2.20	0.58
29:D3:1:MET:O	29:D3:3:ARG:N	2.36	0.58
35:D9:11:CYS:SG	35:D9:12:ASP:N	2.75	0.58
36:DA:753:C:O2'	36:DA:754:C:H5'	2.03	0.58
36:DA:987:G:C2	36:DA:988:A:H1'	2.38	0.58
36:DA:1038:C:H3'	36:DA:1039:G:H5''	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1138:G:H1	36:DA:1143:A:H2	1.51	0.58
36:DA:1464:C:O2'	36:DA:1528:A:C8	2.55	0.58
36:DA:1568:G:OP2	39:DD:63:ARG:NH2	2.33	0.58
36:DA:1636:C:H2'	36:DA:1637:A:C8	2.38	0.58
39:DD:26:LYS:O	39:DD:27:THR:CB	2.51	0.58
39:DD:27:THR:O	39:DD:27:THR:HG23	2.01	0.58
39:DD:27:THR:HG21	39:DD:82:ILE:O	2.03	0.58
39:DD:32:SER:O	39:DD:36:PRO:HG3	2.03	0.58
40:DE:116:VAL:HG23	40:DE:120:TRP:HB2	1.84	0.58
48:DP:20:GLY:O	48:DP:21:ARG:HB2	2.03	0.58
49:DQ:109:VAL:HG12	49:DQ:110:THR:H	1.68	0.58
52:DT:10:VAL:C	52:DT:12:SER:H	2.10	0.58
52:DT:52:ILE:O	52:DT:52:ILE:HG22	2.03	0.58
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.04	0.58
2:AB:16:HIS:HB3	2:AB:210:SER:HA	1.85	0.58
2:AB:74:LYS:HZ2	2:AB:76:GLN:HB2	1.67	0.58
2:AB:174:VAL:O	2:AB:177:ALA:HB3	2.03	0.58
3:AC:91:LEU:CD1	3:AC:101:LEU:HD12	2.29	0.58
4:AD:138:TYR:HD2	4:AD:138:TYR:C	2.10	0.58
5:AE:20:GLN:NE2	5:AE:25:ARG:CZ	2.66	0.58
12:AL:53:ARG:HD2	12:AL:53:ARG:N	2.18	0.58
13:AM:56:LEU:C	13:AM:56:LEU:HD13	2.28	0.58
13:AM:68:GLY:O	13:AM:70:LEU:N	2.36	0.58
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.03	0.58
16:AP:45:THR:HG22	16:AP:47:ASP:HB3	1.84	0.58
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.02	0.58
34:B8:7:HIS:CE1	34:B8:9:GLY:HA3	2.38	0.58
34:B8:38:GLY:HA3	34:B8:42:ARG:HH12	1.67	0.58
36:BA:135:G:O2'	36:BA:136:G:H5'	2.03	0.58
36:BA:769:G:O4'	36:BA:1379:A:N6	2.36	0.58
36:BA:1020:A:N1	36:BA:1141:U:H1'	2.18	0.58
36:BA:1376:C:O2'	36:BA:1377:G:H5'	2.03	0.58
36:BA:1636:C:H2'	36:BA:1637:A:C8	2.38	0.58
36:BA:2469:A:O2'	49:BQ:56:ARG:HG3	2.03	0.58
39:BD:26:LYS:O	39:BD:27:THR:CB	2.50	0.58
40:BE:117:MET:HA	40:BE:122:PHE:H	1.68	0.58
42:BG:47:LYS:NZ	42:BG:81:LYS:HB3	2.18	0.58
42:BG:77:ILE:HG22	42:BG:80:PHE:N	2.17	0.58
49:BQ:138:ASP:HB2	58:BZ:53:ILE:HD11	1.85	0.58
50:BR:9:LYS:O	50:BR:10:LEU:HD23	2.03	0.58
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.13	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:89:ARG:HG3	51:BS:92:TYR:HA	1.85	0.58
52:BT:75:ILE:HD12	52:BT:75:ILE:N	2.18	0.58
1:CA:59:A:H1'	1:CA:354:G:C2	2.38	0.58
1:CA:398:C:O2'	1:CA:399:G:H5'	2.03	0.58
1:CA:532:A:H2	1:CA:1206:G:H21	1.49	0.58
1:CA:728:A:H2'	1:CA:729:A:C8	2.37	0.58
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.04	0.58
1:CA:1495:U:O4	59:CA:1601:PAR:N12	2.36	0.58
1:CA:1522:U:O2'	1:CA:1523:G:H5'	2.03	0.58
5:CE:118:ILE:HG13	5:CE:119:LEU:N	2.18	0.58
12:CL:53:ARG:HD2	12:CL:53:ARG:N	2.17	0.58
12:CL:105:TYR:N	12:CL:105:TYR:CD2	2.69	0.58
25:CZ:79:HIS:CD2	25:CZ:80:VAL:N	2.71	0.58
31:D5:40:LYS:HD3	31:D5:44:THR:HB	1.83	0.58
36:DA:308:G:H2'	36:DA:309:G:C8	2.38	0.58
36:DA:320:A:C6	41:DF:136:THR:HG21	2.39	0.58
36:DA:384:U:H2'	36:DA:385:C:H6	1.67	0.58
36:DA:733:G:O5'	36:DA:733:G:C8	2.52	0.58
36:DA:1826:G:H4'	39:DD:242:ARG:HE	1.68	0.58
36:DA:2117:A:N6	36:DA:2171:A:H61	2.01	0.58
36:DA:2162:G:O2'	36:DA:2163:C:H5'	2.03	0.58
37:DB:87:G:H8	37:DB:87:G:O5'	1.85	0.58
39:DD:27:THR:CG2	39:DD:82:ILE:O	2.52	0.58
39:DD:142:VAL:HG22	39:DD:143:HIS:N	2.17	0.58
41:DF:42:ALA:C	41:DF:44:ARG:H	2.11	0.58
43:DH:76:VAL:C	43:DH:78:GLY:H	2.10	0.58
48:DP:50:ARG:NH1	48:DP:51:PHE:CE2	2.71	0.58
48:DP:78:PRO:HB2	48:DP:111:ARG:HH21	1.68	0.58
51:DS:89:ARG:HG3	51:DS:92:TYR:HA	1.86	0.58
54:DV:24:LYS:HA	54:DV:92:THR:CG2	2.33	0.58
55:DW:64:MET:HB3	55:DW:109:GLU:CG	2.33	0.58
56:DX:12:VAL:CG2	56:DX:13:LEU:N	2.45	0.58
56:DX:18:TYR:HA	56:DX:21:PHE:CE1	2.38	0.58
1:AA:928:G:C2'	1:AA:929:G:H5'	2.34	0.58
1:AA:1015:A:H4'	14:AN:15:LYS:NZ	2.17	0.58
1:AA:1124:G:H2'	1:AA:1145:C:H41	1.66	0.58
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.67	0.58
1:AA:1349:A:P	9:AI:120:ARG:HB2	2.44	0.58
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.04	0.58
2:AB:8:LYS:NZ	2:AB:217:ARG:NH1	2.51	0.58
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:16:LEU:HD13	10:AJ:16:LEU:C	2.27	0.58
20:AT:43:LEU:HB3	20:AT:48:LYS:HG3	1.85	0.58
20:AT:75:ASN:HA	20:AT:78:ALA:HB3	1.85	0.58
22:AW:19:G:N7	36:BA:2169:A:C2	2.71	0.58
26:B0:69:PHE:CD2	26:B0:79:VAL:HG22	2.39	0.58
28:B2:7:ARG:O	28:B2:11:GLU:HG3	2.03	0.58
28:B2:63:VAL:O	28:B2:66:GLU:N	2.36	0.58
34:B8:39:LYS:NZ	36:BA:2364:C:H5	2.01	0.58
34:B8:57:ARG:C	34:B8:59:LYS:H	2.09	0.58
36:BA:416:C:C2'	36:BA:417:C:H5'	2.33	0.58
36:BA:554:U:H2'	36:BA:555:U:C6	2.38	0.58
36:BA:645:C:H3'	36:BA:645:C:O2	2.04	0.58
36:BA:1384:A:N3	36:BA:1405:U:H1'	2.18	0.58
36:BA:1644:C:H2'	36:BA:1644:C:O2	2.02	0.58
36:BA:1709:U:H2'	36:BA:1710:C:C6	2.38	0.58
36:BA:1775:U:H2'	36:BA:1776:G:H5'	1.84	0.58
36:BA:2282:G:H5''	36:BA:2283:C:O4'	2.02	0.58
36:BA:2320:A:N3	36:BA:2320:A:H2'	2.17	0.58
36:BA:2675:A:H5'	47:BO:31:LYS:HZ2	1.68	0.58
40:BE:54:GLN:O	40:BE:75:VAL:HG23	2.03	0.58
43:BH:19:VAL:HG12	43:BH:20:ALA:H	1.67	0.58
48:BP:52:GLU:HA	48:BP:52:GLU:OE1	2.02	0.58
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.32	0.58
53:BU:3:ARG:HH11	53:BU:5:LYS:HB3	1.68	0.58
53:BU:92:ARG:NH2	54:BV:10:LYS:HG2	2.18	0.58
53:BU:92:ARG:HD3	53:BU:94:ASN:HB3	1.85	0.58
54:BV:38:LEU:CD1	54:BV:57:VAL:HB	2.33	0.58
58:BZ:55:HIS:CE1	58:BZ:135:GLU:HG2	2.37	0.58
1:CA:865:A:O2'	1:CA:866:C:H5'	2.03	0.58
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.03	0.58
1:CA:1249:C:H5''	9:CI:70:LYS:HZ1	1.66	0.58
1:CA:1250:A:H2'	1:CA:1251:A:H8	1.67	0.58
1:CA:1509:C:N3	1:CA:1526:G:N2	2.45	0.58
2:CB:189:ASP:O	2:CB:191:ASP:N	2.35	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.33	0.58
4:CD:177:ASP:O	4:CD:181:MET:N	2.36	0.58
11:CK:111:ASP:OD2	18:CR:84:LYS:HE3	2.03	0.58
13:CM:30:ALA:O	13:CM:32:GLU:N	2.36	0.58
17:CQ:47:PRO:HG2	17:CQ:48:GLU:H	1.67	0.58
21:CU:10:ARG:O	21:CU:13:ILE:N	2.35	0.58
22:CV:5:G:H2'	22:CV:6:G:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:223:MET:HB2	25:CZ:241:ARG:O	2.02	0.58
25:CZ:223:MET:CB	25:CZ:242:ILE:HA	2.32	0.58
30:D4:46:GLN:CG	30:D4:47:GLN:N	2.65	0.58
34:D8:61:LEU:O	34:D8:64:TYR:N	2.29	0.58
36:DA:271(L):U:C5'	36:DA:271(M):G:H5'	2.27	0.58
36:DA:410:G:N2	36:DA:2407:G:C5	2.72	0.58
36:DA:552:G:H1'	36:DA:1220:A:N1	2.18	0.58
36:DA:566:U:O4	54:DV:78:LYS:HE2	2.04	0.58
36:DA:763:G:C4	36:DA:765:G:C8	2.92	0.58
36:DA:944:G:H22	48:DP:38:GLN:NE2	2.01	0.58
36:DA:1138:G:H1'	46:DN:105:GLY:O	2.03	0.58
36:DA:1258:C:O2'	36:DA:1259:G:H5'	2.04	0.58
36:DA:1345:C:H2'	36:DA:1346:G:H5'	1.83	0.58
36:DA:1887:C:C3'	36:DA:1888:G:H5''	2.33	0.58
36:DA:1971:A:N3	39:DD:240:ALA:HA	2.18	0.58
36:DA:2275:C:OP1	36:DA:2275:C:H6	1.86	0.58
37:DB:70:C:O2'	37:DB:71:C:H5'	2.03	0.58
38:DC:75:LEU:HG	38:DC:112:ALA:O	2.03	0.58
40:DE:103:ASP:HA	40:DE:168:MET:HA	1.84	0.58
41:DF:5:ALA:HB3	41:DF:18:ARG:O	2.03	0.58
43:DH:97:ARG:HH21	43:DH:99:VAL:HG21	1.67	0.58
48:DP:34:GLY:O	48:DP:35:HIS:HB2	2.04	0.58
49:DQ:141:GLN:NE2	58:DZ:72:ARG:HD3	2.18	0.58
52:DT:28:VAL:HG11	52:DT:46:GLU:HA	1.84	0.58
52:DT:42:ILE:HG13	52:DT:42:ILE:O	2.02	0.58
53:DU:92:ARG:NH2	54:DV:10:LYS:HG2	2.18	0.58
58:DZ:139:VAL:HG12	58:DZ:140:ASP:N	2.13	0.58
1:AA:154:C:H2'	1:AA:155:C:C6	2.38	0.58
1:AA:525:C:C4	1:AA:526:C:N4	2.72	0.58
1:AA:824:C:H2'	1:AA:825:G:H8	1.67	0.58
2:AB:83:MET:HE2	2:AB:86:GLU:OE1	2.03	0.58
3:AC:113:ALA:O	3:AC:114:PRO:C	2.46	0.58
5:AE:72:GLN:NE2	5:AE:144:THR:HG22	2.19	0.58
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.04	0.58
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.84	0.58
11:AK:111:ASP:O	11:AK:113:PRO:HD3	2.03	0.58
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.85	0.58
19:AS:28:LYS:C	19:AS:29:ARG:HG3	2.28	0.58
34:B8:33:ASN:ND2	36:BA:2419:U:H5''	2.19	0.58
36:BA:7:G:N2	36:BA:8:A:H1'	2.17	0.58
36:BA:67:U:C5	36:BA:68:G:N7	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:685:A:C2	36:BA:787:U:H1'	2.38	0.58
36:BA:1137:G:H2'	36:BA:1138:G:C8	2.37	0.58
36:BA:1374:G:H2'	36:BA:1375:C:H6	1.66	0.58
36:BA:1496:A:H1'	36:BA:1578:U:O2'	2.03	0.58
36:BA:1655:A:H4'	40:BE:114:ALA:HA	1.86	0.58
36:BA:1693:U:O2'	39:BD:14:ARG:NH2	2.36	0.58
36:BA:1820:U:C2	39:BD:202:LYS:HB3	2.39	0.58
40:BE:29:GLY:HA2	40:BE:180:ASN:CG	2.27	0.58
41:BF:57:VAL:CG1	41:BF:58:ALA:N	2.66	0.58
41:BF:122:LYS:HG3	41:BF:191:ARG:HG3	1.85	0.58
42:BG:33:ARG:C	42:BG:161:THR:HB	2.28	0.58
42:BG:66:GLN:HG2	42:BG:67:LYS:N	2.14	0.58
43:BH:68:THR:HG22	43:BH:72:ILE:HG12	1.85	0.58
49:BQ:5:ARG:O	49:BQ:6:ARG:HG2	2.03	0.58
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.84	0.58
52:BT:42:ILE:HG13	52:BT:42:ILE:O	2.02	0.58
55:BW:12:ILE:HD12	55:BW:42:ARG:HH12	1.66	0.58
55:BW:14:PRO:HG2	55:BW:78:GLU:HB2	1.85	0.58
56:BX:35:THR:HB	56:BX:38:GLU:HG3	1.84	0.58
58:BZ:10:ARG:HH21	58:BZ:36:LYS:CB	2.17	0.58
1:CA:80:G:O2'	1:CA:81:U:H5'	2.03	0.58
1:CA:355:C:H2'	1:CA:356:A:C8	2.35	0.58
1:CA:524:G:C6	1:CA:525:C:N4	2.72	0.58
1:CA:689:C:O2'	1:CA:690:G:H5'	2.03	0.58
3:CC:35:GLU:OE1	3:CC:97:LYS:HE2	2.03	0.58
12:CL:71:PRO:O	12:CL:102:ARG:NH1	2.36	0.58
12:CL:83:VAL:HG12	12:CL:84:LEU:H	1.67	0.58
17:CQ:99:SER:O	17:CQ:100:LYS:HG3	2.03	0.58
19:CS:29:ARG:N	19:CS:29:ARG:HD2	2.18	0.58
20:CT:63:ILE:HG22	20:CT:77:ALA:HB1	1.84	0.58
31:D5:51:TYR:HB3	31:D5:54:GLY:HA3	1.85	0.58
36:DA:519:U:H5''	55:DW:25:ARG:NH1	2.18	0.58
36:DA:1068:G:H1'	36:DA:1069:A:OP1	2.04	0.58
36:DA:1091:G:H2'	36:DA:1092:C:H6	1.68	0.58
36:DA:1655:A:H4'	40:DE:115:GLY:H	1.68	0.58
36:DA:1785:A:P	36:DA:1982:C:H5'	2.44	0.58
36:DA:1818:U:H2'	39:DD:157:ARG:CG	2.32	0.58
36:DA:1998:G:H4'	36:DA:2724:C:H4'	1.85	0.58
36:DA:2024:G:H2'	36:DA:2025:C:O4'	2.04	0.58
36:DA:2235:G:H2'	36:DA:2236:C:H6	1.66	0.58
36:DA:2320:A:N3	36:DA:2320:A:H2'	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2494:G:O2'	49:DQ:80:GLU:HA	2.02	0.58
36:DA:2758:A:H62	43:DH:67:LEU:HD11	1.68	0.58
37:DB:8:U:H2'	37:DB:9:G:C8	2.38	0.58
40:DE:111:ARG:HA	50:DR:2:ARG:HG3	1.85	0.58
40:DE:126:PRO:O	40:DE:128:SER:N	2.37	0.58
41:DF:124:LEU:HD22	41:DF:191:ARG:NH2	2.18	0.58
42:DG:103:LEU:HD23	42:DG:106:LEU:HD23	1.85	0.58
42:DG:145:THR:HG22	42:DG:147:ASP:H	1.67	0.58
43:DH:37:VAL:CG1	43:DH:38:SER:H	2.12	0.58
44:DJ:114:UNK:O	44:DJ:115:UNK:CB	2.51	0.58
47:DO:43:VAL:HG23	47:DO:56:ASP:O	2.03	0.58
48:DP:100:LEU:HD13	48:DP:103:ALA:HB3	1.85	0.58
51:DS:30:ARG:HH11	51:DS:35:ILE:HB	1.69	0.58
58:DZ:165:VAL:HG12	58:DZ:166:SER:OG	2.03	0.58
1:AA:68:G:H1	1:AA:101:A:H61	1.51	0.58
1:AA:381:C:H2'	1:AA:382:A:O4'	2.04	0.58
1:AA:1312:G:H2'	1:AA:1313:U:C6	2.38	0.58
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.19	0.58
1:AA:1441:G:H4'	1:AA:1442:G:C2	2.38	0.58
2:AB:155:LEU:HD11	2:AB:159:PRO:HD3	1.83	0.58
5:AE:48:ALA:C	5:AE:50:GLU:H	2.10	0.58
5:AE:57:LYS:HE3	5:AE:61:TYR:HE2	1.69	0.58
6:AF:24:GLU:HA	6:AF:27:GLN:HG2	1.86	0.58
7:AG:119:ARG:O	7:AG:120:ILE:C	2.45	0.58
8:AH:81:HIS:ND1	8:AH:81:HIS:N	2.50	0.58
25:AZ:137:LYS:HA	62:AZ:501:GDP:HN1	1.69	0.58
35:B9:1:MET:SD	36:BA:2477:C:C2'	2.91	0.58
36:BA:83:G:H5''	36:BA:84:A:OP1	2.03	0.58
36:BA:271(L):U:C5'	36:BA:271(M):G:H5'	2.29	0.58
36:BA:292:C:O2'	36:BA:293:U:H5'	2.03	0.58
36:BA:898:C:C2'	36:BA:899:A:H5'	2.34	0.58
36:BA:1344:G:H4'	36:BA:1384:A:C5	2.39	0.58
36:BA:1409:C:O5'	36:BA:1409:C:H6	1.87	0.58
36:BA:1541:G:O2'	36:BA:1542:A:H5''	2.03	0.58
36:BA:1566:A:OP1	39:BD:211:ARG:NH1	2.35	0.58
36:BA:2195:C:H2'	36:BA:2196:C:H6	1.68	0.58
36:BA:2475:C:H2'	36:BA:2477:C:OP1	2.04	0.58
36:BA:2636:U:H4'	40:BE:80:GLU:OE1	2.03	0.58
39:BD:61:LEU:O	39:BD:63:ARG:NH1	2.36	0.58
39:BD:126:GLN:HG3	39:BD:129:ASN:ND2	2.17	0.58
39:BD:229:VAL:HG23	39:BD:230:ASP:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:51:PHE:CD1	40:BE:52:LEU:N	2.72	0.58
40:BE:116:VAL:O	40:BE:117:MET:HB2	2.01	0.58
41:BF:5:ALA:HB3	41:BF:18:ARG:O	2.03	0.58
48:BP:130:PHE:N	48:BP:130:PHE:CD2	2.68	0.58
50:BR:13:HIS:ND1	50:BR:14:SER:N	2.52	0.58
50:BR:13:HIS:HE1	50:BR:15:SER:OG	1.85	0.58
51:BS:98:VAL:C	51:BS:100:ALA:N	2.61	0.58
52:BT:102:ILE:HG13	52:BT:103:ARG:N	2.11	0.58
53:BU:27:LEU:O	53:BU:31:SER:HB3	2.04	0.58
53:BU:96:ALA:C	53:BU:98:LEU:H	2.10	0.58
57:BY:73:ARG:HB3	57:BY:80:GLY:CA	2.34	0.58
1:CA:245:C:O2'	1:CA:246:A:O5'	2.22	0.58
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.86	0.58
1:CA:689:C:P	11:CK:46:GLY:HA3	2.42	0.58
1:CA:1100:C:OP2	2:CB:96:ARG:HG2	2.04	0.58
1:CA:1398:A:N6	5:CE:21:ALA:HA	2.19	0.58
2:CB:8:LYS:NZ	2:CB:217:ARG:NH1	2.52	0.58
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.32	0.58
4:CD:121:VAL:HG12	4:CD:134:ASP:CA	2.33	0.58
5:CE:57:LYS:HE3	5:CE:61:TYR:HE2	1.67	0.58
11:CK:79:SER:HA	11:CK:104:GLN:HB3	1.85	0.58
11:CK:111:ASP:HB2	18:CR:84:LYS:HD2	1.85	0.58
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.69	0.58
19:CS:9:VAL:C	19:CS:11:VAL:H	2.12	0.58
24:CY:55:PSU:O4	24:CY:55:PSU:H3'	2.03	0.58
25:CZ:197:ASP:HA	25:CZ:200:TRP:CD1	2.39	0.58
25:CZ:315:LYS:O	25:CZ:403:ILE:HG23	2.02	0.58
27:D1:58:ILE:HG12	27:D1:59:THR:N	2.18	0.58
32:D6:29:ASN:O	32:D6:30:THR:C	2.46	0.58
32:D6:32:ASN:O	32:D6:33:LYS:HB2	2.03	0.58
34:D8:60:LEU:O	34:D8:63:PRO:HG2	2.02	0.58
36:DA:84:A:H2	36:DA:98:G:H21	1.52	0.58
36:DA:271(D):G:O2'	36:DA:271(E):U:H5'	2.03	0.58
36:DA:282:A:N3	36:DA:282:A:H2'	2.18	0.58
36:DA:1121:C:H2'	36:DA:1122:G:C8	2.38	0.58
36:DA:1665:A:H4'	47:DO:67:LYS:HB2	1.84	0.58
36:DA:1774:C:H4'	36:DA:1979:C:O2	2.03	0.58
36:DA:1899:G:H21	36:DA:1902:C:H41	1.49	0.58
36:DA:2467:C:C2'	36:DA:2468:G:H5'	2.34	0.58
36:DA:2673:G:H2'	36:DA:2674:G:H8	1.68	0.58
38:DC:38:ASP:O	38:DC:177:LYS:HE3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:39:PRO:HD3	40:DE:45:THR:OG1	2.03	0.58
41:DF:28:ILE:HG21	41:DF:116:ASP:OD1	2.03	0.58
48:DP:148:LEU:O	48:DP:149:GLU:HB2	2.03	0.58
49:DQ:62:GLY:O	58:DZ:178:GLU:OE1	2.20	0.58
50:DR:52:ILE:O	50:DR:55:ALA:HB3	2.03	0.58
50:DR:107:ASP:O	50:DR:108:GLY:C	2.45	0.58
57:DY:61:ILE:O	57:DY:62:GLU:HB2	2.03	0.58
58:DZ:73:GLN:O	58:DZ:87:ASP:OD1	2.20	0.58
58:DZ:146:ILE:HG13	58:DZ:147:GLY:N	2.18	0.58
1:AA:865:A:O2'	1:AA:866:C:H5'	2.04	0.58
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.58
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.33	0.58
4:AD:13:ARG:O	4:AD:15:GLU:N	2.37	0.58
5:AE:61:TYR:O	5:AE:62:ALA:C	2.46	0.58
8:AH:37:ARG:O	8:AH:37:ARG:HG2	2.01	0.58
20:AT:44:ALA:CB	20:AT:88:VAL:HG13	2.32	0.58
26:B0:28:GLY:H	26:B0:66:VAL:HG13	1.68	0.58
32:B6:33:LYS:O	32:B6:34:LEU:HB2	2.04	0.58
36:BA:597:U:H4'	48:BP:15:ARG:CZ	2.34	0.58
36:BA:1138:G:H1'	46:BN:105:GLY:O	2.03	0.58
36:BA:1242:A:N6	48:BP:8:PRO:HG3	2.18	0.58
36:BA:1337:G:H2'	36:BA:1338:G:C8	2.38	0.58
36:BA:1464:C:O2'	36:BA:1528:A:C8	2.56	0.58
36:BA:1672:C:N3	36:BA:1673:U:C5	2.72	0.58
36:BA:1847:A:H2'	36:BA:1847:A:N3	2.19	0.58
36:BA:2073:C:H2'	36:BA:2074:U:H6	1.69	0.58
36:BA:2127:G:H2'	36:BA:2128:C:H6	1.69	0.58
36:BA:2189:U:H3'	36:BA:2190:G:H5''	1.84	0.58
36:BA:2464:C:O2'	36:BA:2465:C:H6	1.85	0.58
36:BA:2629:A:N3	36:BA:2629:A:H2'	2.18	0.58
36:BA:2647:U:O2'	36:BA:2648:C:H5'	2.03	0.58
36:BA:2853:C:H2'	36:BA:2854:G:C8	2.39	0.58
37:BB:17:C:H2'	37:BB:18:G:H8	1.67	0.58
37:BB:19:G:H5'	37:BB:20:C:OP2	2.04	0.58
39:BD:14:ARG:HG3	39:BD:15:PHE:N	2.19	0.58
39:BD:175:LEU:HD12	39:BD:185:VAL:CG2	2.32	0.58
41:BF:20:LEU:H	41:BF:24:LEU:CD2	2.16	0.58
41:BF:28:ILE:HG22	41:BF:116:ASP:HB2	1.84	0.58
41:BF:81:PRO:C	41:BF:82:ILE:O	2.46	0.58
46:BN:60:ILE:HD13	46:BN:99:LEU:HD23	1.85	0.58
48:BP:78:PRO:HB2	48:BP:111:ARG:HH21	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:63:VAL:O	52:BT:73:GLU:HA	2.03	0.58
58:BZ:163:LEU:CD2	58:BZ:165:VAL:HG23	2.33	0.58
1:CA:189(I):G:H2'	1:CA:189(J):G:C8	2.38	0.58
1:CA:552:U:O2'	1:CA:553:A:H5'	2.03	0.58
1:CA:797:C:O2'	1:CA:798:G:H5'	2.04	0.58
1:CA:1423:G:C4	1:CA:1424:C:C5	2.92	0.58
1:CA:1492:A:C2	1:CA:1493:A:N1	2.72	0.58
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.03	0.58
2:CB:130:ARG:NE	2:CB:131:PRO:HD2	2.19	0.58
3:CC:90:GLU:CA	3:CC:93:LYS:HB3	2.34	0.58
4:CD:200:GLU:O	4:CD:204:ILE:HG13	2.02	0.58
10:CJ:17:ASP:HB2	10:CJ:70:ARG:NH2	2.18	0.58
10:CJ:40:LEU:CB	10:CJ:41:PRO:HD2	2.34	0.58
16:CP:20:VAL:HG21	16:CP:32:TYR:CE2	2.39	0.58
22:CV:56:C:H1'	42:DG:76:SER:CB	2.28	0.58
27:D1:49:VAL:HG21	27:D1:71:TYR:CE1	2.38	0.58
29:D3:7:LYS:HA	29:D3:34:GLU:HA	1.86	0.58
32:D6:45:LYS:O	32:D6:46:HIS:HB3	2.01	0.58
34:D8:5:LYS:HG2	36:DA:242:G:C8	2.39	0.58
35:D9:12:ASP:OD2	35:D9:13:LYS:HG3	2.04	0.58
36:DA:31:C:H2'	36:DA:32:C:C4'	2.34	0.58
36:DA:477:A:H2'	36:DA:478:A:C8	2.39	0.58
36:DA:496:G:H1'	55:DW:61:ASN:ND2	2.19	0.58
36:DA:1215:G:H2'	36:DA:1216:G:H8	1.69	0.58
36:DA:1440:G:H22	36:DA:1552:G:H1'	1.68	0.58
36:DA:1798:U:C2	36:DA:1822:G:N2	2.72	0.58
36:DA:1825:A:H2'	36:DA:1826:G:C8	2.39	0.58
36:DA:1921:G:O2'	36:DA:1922:G:H5'	2.04	0.58
36:DA:2653:U:H3'	36:DA:2654:A:C8	2.36	0.58
36:DA:2777:G:H4'	36:DA:2778:A:H5'	1.86	0.58
39:DD:131:LEU:HD12	39:DD:131:LEU:N	2.19	0.58
40:DE:13:ARG:O	52:DT:57:PHE:HE1	1.87	0.58
40:DE:69:LYS:O	40:DE:71:GLY:N	2.33	0.58
46:DN:61:ARG:HG3	46:DN:61:ARG:HH11	1.67	0.58
47:DO:47:ILE:HG23	47:DO:48:PRO:CD	2.28	0.58
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.11	0.58
52:DT:32:TYR:N	52:DT:32:TYR:HD2	2.01	0.58
52:DT:59:THR:OG1	52:DT:78:LEU:HD12	2.03	0.58
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.29	0.58
1:AA:57:G:H2'	1:AA:58:C:C6	2.39	0.58
1:AA:151:A:H2'	1:AA:152:A:H5'	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:184:G:H2'	1:AA:185:A:H8	1.67	0.58
1:AA:389:A:C2'	1:AA:390:C:H5'	2.33	0.58
1:AA:398:C:O2'	1:AA:399:G:H5'	2.03	0.58
1:AA:475:G:O2'	1:AA:476:G:H5'	2.04	0.58
1:AA:726:C:H2'	1:AA:727:G:C8	2.39	0.58
1:AA:1068:G:N7	1:AA:1108:G:N2	2.51	0.58
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.39	0.58
2:AB:74:LYS:HE3	2:AB:206:ASP:OD2	2.04	0.58
2:AB:81:VAL:O	2:AB:82:ARG:C	2.46	0.58
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.19	0.58
4:AD:49:ARG:O	4:AD:51:PRO:N	2.36	0.58
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	1.84	0.58
6:AF:30:LEU:O	6:AF:35:ALA:HB3	2.04	0.58
8:AH:2:LEU:CD2	8:AH:3:THR:H	2.17	0.58
14:AN:4:LYS:O	14:AN:5:ALA:C	2.46	0.58
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.28	0.58
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.33	0.58
24:AY:75:C:C6	25:AZ:231:ILE:HG23	2.33	0.58
26:B0:25:ARG:NH2	26:B0:35:ASN:HD22	2.01	0.58
28:B2:35:LEU:HD22	28:B2:35:LEU:C	2.28	0.58
36:BA:459:U:H2'	36:BA:460:A:C8	2.24	0.58
36:BA:621:A:H2'	36:BA:622:G:O4'	2.02	0.58
36:BA:661:C:H2'	36:BA:662:G:C8	2.39	0.58
36:BA:782:A:C6	39:BD:226:MET:HE3	2.39	0.58
36:BA:1301:A:H4'	36:BA:1302:A:OP1	2.02	0.58
36:BA:1396:U:H2'	36:BA:1396:U:O2	2.03	0.58
36:BA:1722:A:O2'	36:BA:1739:U:C5'	2.52	0.58
36:BA:1902:C:C4'	39:BD:244:ARG:HB2	2.34	0.58
38:BC:22:ILE:HD12	38:BC:228:SER:C	2.29	0.58
40:BE:15:PHE:CD1	40:BE:20:ALA:HB2	2.38	0.58
41:BF:88:VAL:HG22	41:BF:89:VAL:H	1.68	0.58
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.16	0.58
48:BP:126:VAL:HG22	48:BP:145:PRO:CB	2.34	0.58
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.11	0.58
57:BY:85:VAL:HG12	57:BY:86:ARG:N	2.16	0.58
1:CA:376:G:H5''	16:CP:5:ARG:HB2	1.85	0.58
1:CA:688:G:O2'	1:CA:689:C:H5'	2.02	0.58
1:CA:691:G:H2'	1:CA:692:U:C6	2.38	0.58
1:CA:909:A:P	12:CL:21:LYS:HD3	2.43	0.58
1:CA:940:C:H2'	1:CA:941:G:H8	1.69	0.58
2:CB:74:LYS:HE3	2:CB:206:ASP:OD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:229:VAL:CG1	2:CB:230:VAL:N	2.64	0.58
4:CD:173:TRP:HB3	4:CD:187:ARG:HH22	1.67	0.58
5:CE:92:LYS:H	5:CE:118:ILE:HD11	1.67	0.58
8:CH:11:THR:O	8:CH:15:ASN:ND2	2.37	0.58
14:CN:8:GLU:C	14:CN:10:ALA:H	2.10	0.58
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	2.19	0.58
25:CZ:136:ASN:C	25:CZ:138:VAL:N	2.59	0.58
25:CZ:389:ARG:HG2	25:CZ:394:THR:HA	1.86	0.58
26:D0:25:ARG:HH21	26:D0:35:ASN:HD22	1.50	0.58
26:D0:30:VAL:HG12	26:D0:66:VAL:HG23	1.84	0.58
26:D0:55:ARG:HH21	36:DA:2386:C:H5''	1.68	0.58
30:D4:14:ILE:HD12	30:D4:14:ILE:N	2.19	0.58
34:D8:38:GLY:HA3	34:D8:42:ARG:HH12	1.68	0.58
35:D9:25:VAL:O	35:D9:25:VAL:HG12	2.03	0.58
36:DA:675:A:OP1	41:DF:63:LYS:HE2	2.03	0.58
36:DA:1337:G:H2'	36:DA:1338:G:C8	2.39	0.58
36:DA:1661:G:O2'	36:DA:1662:C:H5'	2.04	0.58
36:DA:2758:A:H2	36:DA:2759:G:H1'	1.69	0.58
36:DA:2811:G:P	40:DE:60:ASN:HB2	2.42	0.58
37:DB:10:C:O2'	37:DB:11:C:H5'	2.04	0.58
38:DC:214:VAL:CG2	38:DC:224:ILE:HG21	2.33	0.58
41:DF:57:VAL:CG1	41:DF:58:ALA:H	2.17	0.58
43:DH:136:ILE:HD12	43:DH:136:ILE:H	1.68	0.58
46:DN:65:LYS:HB3	46:DN:65:LYS:NZ	2.18	0.58
50:DR:56:LYS:C	50:DR:58:GLY:H	2.12	0.58
1:AA:361:G:H2'	1:AA:362:G:O4'	2.04	0.58
1:AA:689:C:O2'	1:AA:690:G:H5'	2.04	0.58
1:AA:709:G:H2'	1:AA:710:G:H8	1.68	0.58
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.04	0.58
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.04	0.58
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.03	0.58
5:AE:101:ILE:O	5:AE:120:THR:HG22	2.04	0.58
9:AI:33:PHE:CE2	9:AI:47:LEU:HD11	2.39	0.58
10:AJ:14:LYS:O	10:AJ:16:LEU:N	2.32	0.58
10:AJ:65:LEU:HD22	14:AN:56:VAL:CG2	2.34	0.58
11:AK:79:SER:HA	11:AK:104:GLN:HB3	1.85	0.58
22:AV:21:A:C2'	22:AV:22:G:H5''	2.33	0.58
22:AV:49:C:OP1	22:AV:49:C:H2'	2.03	0.58
22:AW:34:G:H22	23:AX:18:G:H22	1.51	0.58
25:AZ:223:MET:CB	25:AZ:242:ILE:HA	2.33	0.58
28:B2:30:ARG:O	28:B2:33:MET:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:63:VAL:O	28:B2:65:ASN:N	2.36	0.58
32:B6:18:ARG:HG2	32:B6:18:ARG:NH1	2.17	0.58
34:B8:62:LEU:HD22	36:BA:242:G:H5'	1.85	0.58
36:BA:66:C:O4'	36:BA:456:C:N3	2.36	0.58
36:BA:84:A:H2	36:BA:98:G:H21	1.51	0.58
36:BA:333:G:H2'	36:BA:333:G:N3	2.19	0.58
36:BA:336:C:H4'	57:BY:7:VAL:CG2	2.34	0.58
36:BA:428:A:H3'	36:BA:429:A:C8	2.39	0.58
36:BA:749:C:H4'	36:BA:1271:G:N3	2.19	0.58
36:BA:1199:U:H3	36:BA:1246:A:H61	1.51	0.58
36:BA:1348:G:O2'	36:BA:1349:A:H5''	2.04	0.58
36:BA:1392:A:H2'	36:BA:1393:A:O4'	2.02	0.58
36:BA:1705:G:O2'	36:BA:1706:U:H5'	2.03	0.58
36:BA:1782:C:O2	36:BA:2609:U:H5''	2.04	0.58
36:BA:1861:G:H1	36:BA:1881:C:H42	1.52	0.58
36:BA:1968:G:C2'	36:BA:1969:A:H5''	2.34	0.58
36:BA:2176:A:H4'	38:BC:213:TYR:CD1	2.39	0.58
36:BA:2757:A:H2'	36:BA:2757:A:N3	2.18	0.58
36:BA:2764:A:C2	36:BA:2766:G:H1'	2.38	0.58
37:BB:3:C:H42	37:BB:118:G:H1	1.51	0.58
38:BC:20:TYR:HB3	38:BC:24:GLU:HB3	1.85	0.58
39:BD:149:PRO:HG3	39:BD:186:HIS:HD2	1.67	0.58
41:BF:19:GLU:O	41:BF:20:LEU:HD23	2.03	0.58
48:BP:59:LEU:C	48:BP:61:ARG:N	2.59	0.58
49:BQ:137:TYR:CZ	58:BZ:81:ARG:NH2	2.72	0.58
51:BS:66:ALA:HB1	51:BS:99:LYS:HD3	1.86	0.58
52:BT:38:ASN:C	52:BT:38:ASN:ND2	2.48	0.58
55:BW:13:SER:O	55:BW:17:VAL:HG23	2.04	0.58
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.28	0.58
58:BZ:5:LEU:O	58:BZ:59:LEU:HA	2.04	0.58
58:BZ:99:TYR:HE2	58:BZ:125:LEU:HD13	1.68	0.58
1:CA:194:C:C2'	1:CA:195:A:H5''	2.32	0.58
1:CA:541:G:O2'	1:CA:542:G:H5'	2.03	0.58
1:CA:573:A:OP2	1:CA:574:A:OP2	2.22	0.58
1:CA:639:G:H2'	1:CA:640:A:H8	1.68	0.58
1:CA:954:G:H2'	1:CA:955:U:C6	2.39	0.58
1:CA:1102:A:H2'	1:CA:1103:C:H6	1.69	0.58
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.58
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.19	0.58
2:CB:155:LEU:HD11	2:CB:159:PRO:HD3	1.85	0.58
3:CC:48:TYR:C	3:CC:50:ALA:H	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.68	0.58
3:CC:142:MET:SD	3:CC:148:GLY:N	2.77	0.58
4:CD:25:ARG:C	4:CD:27:TYR:N	2.62	0.58
4:CD:54:TYR:O	4:CD:55:ALA:C	2.47	0.58
4:CD:101:LEU:O	4:CD:104:VAL:HB	2.03	0.58
8:CH:94:TYR:N	8:CH:94:TYR:HD1	2.01	0.58
10:CJ:53:PRO:C	14:CN:41:ARG:NH2	2.62	0.58
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ2	1.69	0.58
11:CK:111:ASP:O	11:CK:113:PRO:HD3	2.04	0.58
13:CM:68:GLY:C	13:CM:70:LEU:N	2.61	0.58
24:CY:65:C:C5'	25:CZ:341:GLN:HG2	2.34	0.58
25:CZ:136:ASN:CG	25:CZ:137:LYS:H	2.11	0.58
32:D6:42:TRP:C	32:D6:44:ARG:N	2.60	0.58
34:D8:10:ALA:C	34:D8:12:LYS:N	2.58	0.58
36:DA:271(D):G:H2'	36:DA:271(E):U:O4'	2.04	0.58
36:DA:621:A:H2'	36:DA:622:G:C5'	2.34	0.58
36:DA:1009:A:N3	36:DA:1154:G:H5'	2.19	0.58
36:DA:1274:A:N3	36:DA:1297:C:H1'	2.19	0.58
36:DA:2193:G:H8	36:DA:2193:G:H5'	1.69	0.58
36:DA:2195:C:H2'	36:DA:2196:C:H6	1.69	0.58
36:DA:2636:U:OP1	40:DE:80:GLU:HG3	2.03	0.58
36:DA:2733:A:O2'	36:DA:2734:A:H5'	2.03	0.58
38:DC:81:GLU:C	38:DC:82:LYS:HE2	2.28	0.58
39:DD:44:ASN:HB2	39:DD:48:ARG:O	2.04	0.58
40:DE:3:GLY:O	40:DE:4:ILE:HB	2.04	0.58
46:DN:2:LYS:HZ1	54:DV:12:TYR:HA	1.69	0.58
53:DU:94:ASN:C	53:DU:96:ALA:H	2.12	0.58
57:DY:73:ARG:O	57:DY:74:PRO:O	2.21	0.58
57:DY:74:PRO:HG2	57:DY:80:GLY:O	2.03	0.58
1:AA:739:C:O2'	1:AA:740:U:H5'	2.04	0.58
2:AB:76:GLN:O	2:AB:77:ALA:HB2	2.03	0.58
2:AB:130:ARG:NH2	2:AB:131:PRO:HD2	2.19	0.58
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.04	0.58
4:AD:81:GLU:OE1	4:AD:139:ARG:NH1	2.36	0.58
20:AT:83:ARG:CA	20:AT:86:ARG:HB3	2.33	0.58
22:AW:58:A:H2'	22:AW:61:C:H41	1.69	0.58
25:AZ:136:ASN:CG	25:AZ:137:LYS:H	2.12	0.58
32:B6:6:ARG:HH11	32:B6:6:ARG:CB	2.13	0.58
33:B7:24:THR:C	33:B7:26:GLY:H	2.11	0.58
34:B8:10:ALA:C	34:B8:12:LYS:N	2.58	0.58
36:BA:31:C:H5''	36:BA:1239:G:OP1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:108:U:H2'	36:BA:109:G:H8	1.68	0.58
36:BA:611:C:H2'	36:BA:612:C:C6	2.35	0.58
36:BA:1639:U:H2'	36:BA:1640:C:C5'	2.32	0.58
36:BA:2206:G:H5''	36:BA:2206:G:N3	2.19	0.58
36:BA:2290:G:H2'	36:BA:2291:U:O4'	2.03	0.58
36:BA:2375:G:N3	36:BA:2379:G:N2	2.52	0.58
36:BA:2756:U:H4'	36:BA:2757:A:O5'	2.04	0.58
39:BD:152:GLY:O	39:BD:153:ALA:C	2.47	0.58
43:BH:51:ARG:O	43:BH:52:VAL:HG23	2.04	0.58
43:BH:149:ARG:HD3	43:BH:164:TYR:CD1	2.38	0.58
45:BK:72:UNK:O	45:BK:73:UNK:C	2.52	0.58
46:BN:5:VAL:CG1	46:BN:7:LYS:HG3	2.33	0.58
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.84	0.58
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.33	0.58
57:BY:74:PRO:HG2	57:BY:80:GLY:O	2.04	0.58
58:BZ:130:PRO:O	58:BZ:133:ILE:HD11	2.04	0.58
1:CA:1418:A:H1'	36:DA:1959:G:O4'	2.04	0.58
3:CC:53:ALA:HB2	3:CC:115:LEU:CG	2.33	0.58
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.83	0.58
3:CC:106:VAL:O	3:CC:107:GLN:C	2.47	0.58
4:CD:72:GLU:O	4:CD:73:ARG:C	2.46	0.58
5:CE:50:GLU:HA	5:CE:50:GLU:OE2	2.03	0.58
8:CH:2:LEU:HD22	8:CH:3:THR:N	2.18	0.58
8:CH:37:ARG:O	8:CH:41:ARG:HB2	2.04	0.58
8:CH:119:LEU:HD12	8:CH:124:ALA:HA	1.86	0.58
16:CP:48:TRP:H	16:CP:48:TRP:CD1	2.22	0.58
18:CR:67:ALA:O	18:CR:71:LYS:HG3	2.03	0.58
25:CZ:152:MET:HE2	25:CZ:156:ASP:HB2	1.86	0.58
36:DA:336:C:H4'	57:DY:7:VAL:CG2	2.33	0.58
36:DA:1722:A:C2	36:DA:1740:G:H2'	2.38	0.58
36:DA:2145:C:H2'	36:DA:2147:G:H22	1.67	0.58
36:DA:2746:U:H2'	36:DA:2747:G:H8	1.69	0.58
37:DB:44:G:O2'	37:DB:45:A:H5''	2.04	0.58
39:DD:177:LEU:C	39:DD:179:SER:H	2.09	0.58
41:DF:9:ILE:HG12	41:DF:14:PRO:CA	2.25	0.58
47:DO:72:PRO:C	47:DO:74:GLY:N	2.54	0.58
49:DQ:51:ARG:HG3	49:DQ:51:ARG:HH11	1.68	0.58
55:DW:69:LEU:HA	55:DW:108:GLY:O	2.03	0.58
58:DZ:92:SER:O	58:DZ:130:PRO:HG2	2.04	0.58
1:AA:246:A:O3'	1:AA:247:G:H4'	2.04	0.58
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:552:U:O2'	1:AA:553:A:H5'	2.04	0.58
1:AA:612:C:H42	1:AA:628:G:H1	1.51	0.58
1:AA:939:G:H2'	1:AA:940:C:C6	2.38	0.58
1:AA:1044:A:H2'	1:AA:1045:C:O4'	2.04	0.58
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.02	0.58
2:AB:7:VAL:CA	2:AB:11:LEU:HG	2.33	0.58
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.86	0.58
2:AB:102:LEU:HB3	2:AB:180:LEU:HD12	1.86	0.58
3:AC:26:LYS:HG3	3:AC:27:LYS:CG	2.28	0.58
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.18	0.58
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.15	0.58
8:AH:23:SER:HB2	8:AH:62:TYR:HA	1.85	0.58
19:AS:42:PRO:O	19:AS:44:MET:SD	2.62	0.58
25:AZ:214:VAL:HG22	25:AZ:215:ARG:N	2.19	0.58
25:AZ:222:LEU:HD23	25:AZ:244:ARG:NH2	2.18	0.58
25:AZ:291:ARG:HG3	25:AZ:292:GLY:N	2.19	0.58
26:B0:30:VAL:O	26:B0:31:VAL:HG13	2.04	0.58
27:B1:11:ARG:HB3	27:B1:11:ARG:HH11	1.67	0.58
32:B6:10:LEU:HD22	32:B6:10:LEU:N	2.19	0.58
32:B6:19:ARG:CG	32:B6:20:ASN:H	1.98	0.58
36:BA:304:G:H2'	36:BA:305:U:C6	2.38	0.58
36:BA:1069:A:H1'	36:BA:1070:A:P	2.43	0.58
36:BA:1777:U:O2'	36:BA:1778:U:H5'	2.04	0.58
36:BA:1806:C:N4	36:BA:1811:G:H1	2.02	0.58
36:BA:1902:C:H5''	39:BD:246:PRO:CD	2.34	0.58
36:BA:2639:A:H2'	36:BA:2640:G:O4'	2.04	0.58
36:BA:2840:C:C5'	50:BR:53:HIS:HD2	2.11	0.58
36:BA:2856:C:C2'	36:BA:2857:G:H5'	2.34	0.58
38:BC:166:ASP:OD2	38:BC:168:THR:HG23	2.04	0.58
39:BD:27:THR:OG1	39:BD:83:GLU:HG2	2.03	0.58
39:BD:91:ARG:HH11	39:BD:91:ARG:CG	2.16	0.58
41:BF:64:ILE:CG2	41:BF:65:TRP:H	2.09	0.58
41:BF:101:LEU:HD12	41:BF:102:PRO:CD	2.31	0.58
42:BG:105:LYS:HD2	42:BG:142:PRO:HG3	1.86	0.58
48:BP:101:VAL:CG2	48:BP:102:ARG:N	2.67	0.58
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.19	0.58
57:BY:50:ARG:HG3	57:BY:56:PRO:O	2.03	0.58
1:CA:9:G:OP1	5:CE:122:GLU:HG3	2.03	0.58
1:CA:495:A:N6	4:CD:119:GLN:HE22	2.02	0.58
1:CA:784:C:H4'	36:DA:1837:C:OP1	2.04	0.58
1:CA:1363:C:H5'	1:CA:1363(A):A:O5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.86	0.58
3:CC:26:LYS:NZ	3:CC:27:LYS:HD2	2.18	0.58
4:CD:134:ASP:C	4:CD:135:LEU:HD13	2.28	0.58
7:CG:143:ARG:O	7:CG:145:ALA:O	2.22	0.58
10:CJ:96:ILE:HD13	10:CJ:96:ILE:N	2.19	0.58
12:CL:84:LEU:HD12	12:CL:104:VAL:HG11	1.86	0.58
13:CM:65:LYS:HD2	13:CM:69:GLU:O	2.03	0.58
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.33	0.58
22:CV:74:C:H2'	22:CV:75:C:H5'	1.85	0.58
22:CW:31:A:H2'	22:CW:32:U:H6	1.69	0.58
27:D1:3:LYS:O	27:D1:12:PRO:HD2	2.03	0.58
27:D1:58:ILE:HG12	27:D1:59:THR:H	1.68	0.58
29:D3:56:VAL:O	29:D3:57:GLU:HB2	2.03	0.58
32:D6:7:ILE:O	32:D6:27:LYS:HD2	2.03	0.58
36:DA:67:U:C5	36:DA:68:G:N7	2.72	0.58
36:DA:621:A:H2'	36:DA:622:G:H5'	1.86	0.58
36:DA:723:G:C2	36:DA:724:U:C2	2.91	0.58
36:DA:2710:C:O2'	36:DA:2711:A:H5'	2.04	0.58
36:DA:2737:G:H2'	36:DA:2738:A:C8	2.39	0.58
37:DB:115:G:H2'	37:DB:116:G:C8	2.34	0.58
38:DC:75:LEU:HD11	38:DC:113:VAL:HA	1.86	0.58
38:DC:116:THR:HG21	38:DC:147:PHE:CD1	2.39	0.58
40:DE:15:PHE:CD1	40:DE:20:ALA:HB2	2.38	0.58
40:DE:35:GLN:C	40:DE:36:ARG:HD2	2.29	0.58
41:DF:7:TYR:HD2	41:DF:16:GLY:H	1.50	0.58
41:DF:19:GLU:O	41:DF:20:LEU:HD23	2.03	0.58
41:DF:81:PRO:C	41:DF:82:ILE:O	2.45	0.58
41:DF:131:GLY:HA3	41:DF:139:PHE:HA	1.86	0.58
42:DG:52:ILE:HG12	42:DG:53:LEU:N	2.18	0.58
48:DP:23:PRO:HG2	48:DP:33:ARG:HE	1.69	0.58
48:DP:78:PRO:CB	48:DP:111:ARG:NH2	2.67	0.58
49:DQ:27:VAL:HG12	49:DQ:29:PHE:N	2.16	0.58
50:DR:13:HIS:ND1	50:DR:14:SER:N	2.52	0.58
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.32	0.58
54:DV:49:THR:O	54:DV:50:PRO:C	2.46	0.58
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.85	0.58
1:AA:80:G:C2	1:AA:90:U:H5'	2.39	0.57
1:AA:836:G:C6	1:AA:851:G:C6	2.93	0.57
1:AA:947:G:H2'	1:AA:948:C:C6	2.39	0.57
3:AC:58:GLU:N	3:AC:65:ALA:CB	2.63	0.57
3:AC:179:ARG:HD2	3:AC:207:VAL:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:17:VAL:HG11	4:AD:197:PRO:HB2	1.86	0.57
6:AF:17:SER:O	6:AF:21:LEU:HD23	2.04	0.57
8:AH:89:PRO:HA	8:AH:92:ARG:HD2	1.85	0.57
9:AI:18:PHE:HB2	9:AI:62:TYR:HB3	1.86	0.57
11:AK:90:GLY:HA2	11:AK:93:GLN:HB2	1.84	0.57
13:AM:57:ARG:HG2	13:AM:61:GLU:CB	2.35	0.57
20:AT:89:ARG:HB2	20:AT:104:LEU:CD1	2.31	0.57
25:AZ:154:VAL:HG12	25:AZ:158:LEU:HD11	1.86	0.57
25:AZ:222:LEU:O	25:AZ:223:MET:HB3	2.03	0.57
26:B0:49:LYS:O	26:B0:51:VAL:HG23	2.04	0.57
32:B6:15:GLU:O	32:B6:17:LYS:N	2.37	0.57
32:B6:26:ASN:O	32:B6:27:LYS:HB2	2.01	0.57
33:B7:40:TRP:CE3	36:BA:459:U:H4'	2.39	0.57
36:BA:6:A:H2'	36:BA:7:G:H8	1.69	0.57
36:BA:223:A:N7	36:BA:422:A:H1'	2.18	0.57
36:BA:1826:G:OP2	39:BD:222:ARG:HB3	2.03	0.57
36:BA:2010:G:O2'	36:BA:2011:U:H5'	2.03	0.57
36:BA:2151:G:H2'	36:BA:2152:G:H8	1.68	0.57
36:BA:2249:U:H4'	36:BA:2275:C:H5	1.69	0.57
36:BA:2442:C:H2'	36:BA:2442:C:O2	2.02	0.57
36:BA:2589:A:H2'	36:BA:2590:A:C8	2.39	0.57
37:BB:6:C:H42	37:BB:115:G:H1	1.51	0.57
37:BB:75:G:O2'	58:BZ:27:VAL:HG21	2.04	0.57
38:BC:58:VAL:HG22	38:BC:201:PRO:CG	2.34	0.57
38:BC:139:ASN:OD1	38:BC:140:PRO:HD2	2.04	0.57
48:BP:16:ARG:HD3	48:BP:17:LYS:N	2.18	0.57
48:BP:55:ARG:O	48:BP:57:THR:N	2.37	0.57
48:BP:116:GLY:O	48:BP:137:LYS:NZ	2.37	0.57
49:BQ:141:GLN:O	58:BZ:70:LEU:HD12	2.04	0.57
51:BS:42:ASP:C	51:BS:44:LYS:N	2.62	0.57
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.32	0.57
55:BW:59:VAL:O	55:BW:60:ASN:C	2.46	0.57
57:BY:2:ARG:C	57:BY:4:LYS:N	2.61	0.57
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.34	0.57
1:CA:261:U:O2	1:CA:263:A:C8	2.57	0.57
1:CA:726:C:H2'	1:CA:727:G:H8	1.69	0.57
1:CA:886:G:H2'	1:CA:887:G:O4'	2.04	0.57
1:CA:953:G:C2	1:CA:954:G:H1'	2.39	0.57
1:CA:1011:G:C2	1:CA:1019:C:N3	2.73	0.57
1:CA:1334:G:H3'	1:CA:1335:C:H5''	1.86	0.57
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:55:VAL:HG22	12:CL:56:ALA:N	2.18	0.57
19:CS:49:ILE:O	19:CS:60:VAL:HG13	2.04	0.57
24:CY:50:G:H2'	24:CY:51:C:C6	2.39	0.57
25:CZ:291:ARG:HG3	25:CZ:292:GLY:N	2.18	0.57
32:D6:53:LYS:HG2	32:D6:54:ILE:N	2.19	0.57
34:D8:26:LYS:NZ	36:DA:2361:A:OP2	2.35	0.57
34:D8:39:LYS:NZ	36:DA:2364:C:H5	2.00	0.57
36:DA:195:A:N7	36:DA:197:A:OP1	2.36	0.57
36:DA:343:C:H2'	36:DA:344:G:O5'	2.04	0.57
36:DA:1824:G:N3	39:DD:254:THR:OG1	2.37	0.57
36:DA:2263:C:O2'	36:DA:2264:C:H5'	2.03	0.57
36:DA:2773:C:O3'	40:DE:164:ARG:HB3	2.03	0.57
36:DA:2881:C:H2'	36:DA:2882:A:H8	1.67	0.57
40:DE:1:MET:N	40:DE:84:PHE:HB2	2.19	0.57
42:DG:18:GLU:OE1	42:DG:21:ARG:NH2	2.36	0.57
42:DG:170:ARG:O	42:DG:173:LEU:N	2.35	0.57
46:DN:45:ASN:N	46:DN:45:ASN:ND2	2.42	0.57
53:DU:86:ALA:O	53:DU:88:ILE:HG23	2.04	0.57
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.86	0.57
58:DZ:12:GLY:CA	58:DZ:36:LYS:NZ	2.67	0.57
58:DZ:14:LYS:HB2	58:DZ:17:ALA:CB	2.34	0.57
58:DZ:48:PHE:C	58:DZ:50:GLN:H	2.12	0.57
1:AA:226:G:C2'	1:AA:227:G:H5'	2.34	0.57
1:AA:377:G:H1	1:AA:386:C:H42	1.53	0.57
1:AA:419:C:H42	1:AA:424:G:N2	1.98	0.57
1:AA:789:U:O2	1:AA:791:G:C8	2.57	0.57
1:AA:840:C:H5'	1:AA:841:U:OP1	2.04	0.57
1:AA:1155:G:H2'	1:AA:1156:G:H8	1.69	0.57
5:AE:20:GLN:HE22	5:AE:25:ARG:NH2	2.02	0.57
7:AG:94:ARG:O	7:AG:97:GLN:N	2.37	0.57
7:AG:149:ARG:HD3	11:AK:59:TYR:CE1	2.39	0.57
12:AL:105:TYR:N	12:AL:105:TYR:CD2	2.71	0.57
21:AU:2:GLY:O	21:AU:4:GLY:N	2.36	0.57
25:AZ:146:LEU:O	25:AZ:150:VAL:HG23	2.04	0.57
25:AZ:315:LYS:O	25:AZ:403:ILE:HG23	2.04	0.57
28:B2:63:VAL:HA	28:B2:66:GLU:HG2	1.86	0.57
34:B8:59:LYS:O	34:B8:60:LEU:HD23	2.03	0.57
36:BA:226:G:H1	36:BA:418:G:H21	1.51	0.57
36:BA:343:C:H2'	36:BA:344:G:O5'	2.05	0.57
36:BA:1242:A:H3'	36:BA:1243:G:H8	1.69	0.57
36:BA:1248:G:P	41:BF:92:PRO:HG3	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1304:C:O2'	36:BA:1305:C:H5'	2.03	0.57
36:BA:1375:C:O2'	36:BA:1376:C:H5'	2.02	0.57
36:BA:1678:G:O5'	36:BA:1678:G:H8	1.88	0.57
36:BA:1801:G:H3'	36:BA:1802:A:H5'	1.86	0.57
36:BA:1822:G:C4	36:BA:1823:G:C8	2.92	0.57
36:BA:1949:G:H1	36:BA:1957:C:N4	2.01	0.57
36:BA:2230:G:H2'	36:BA:2231:C:H6	1.69	0.57
36:BA:2758:A:H2	36:BA:2759:G:H1'	1.69	0.57
36:BA:2777:G:C5'	36:BA:2778:A:H5'	2.34	0.57
36:BA:2789:C:H1'	36:BA:2892:A:C2	2.38	0.57
39:BD:48:ARG:HG3	39:BD:48:ARG:NH1	2.19	0.57
49:BQ:24:GLY:O	49:BQ:26:TYR:N	2.36	0.57
54:BV:40:LEU:HD13	54:BV:46:VAL:H	1.69	0.57
1:CA:9:G:H5''	5:CE:122:GLU:OE1	2.04	0.57
1:CA:489:C:H2'	1:CA:490:G:H8	1.69	0.57
1:CA:526:C:H2'	1:CA:527:G:H4'	1.85	0.57
1:CA:864:A:H2	1:CA:917:G:N3	2.02	0.57
1:CA:1200:C:O2'	1:CA:1201:A:OP2	2.21	0.57
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.39	0.57
2:CB:36:ARG:O	2:CB:38:GLY:N	2.38	0.57
3:CC:72:LYS:O	3:CC:74:GLY:N	2.36	0.57
4:CD:138:TYR:C	4:CD:138:TYR:CD2	2.82	0.57
7:CG:36:LYS:CA	7:CG:39:ALA:HB3	2.34	0.57
11:CK:124:LYS:HB2	11:CK:124:LYS:NZ	2.13	0.57
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.04	0.57
25:CZ:263:ARG:HB2	25:CZ:263:ARG:NH1	2.19	0.57
25:CZ:315:LYS:HB3	25:CZ:404:LEU:HB2	1.84	0.57
27:D1:73:LEU:O	27:D1:77:ALA:HB2	2.05	0.57
30:D4:46:GLN:CG	30:D4:47:GLN:H	2.16	0.57
32:D6:33:LYS:O	32:D6:34:LEU:HB2	2.05	0.57
32:D6:36:LEU:HD12	32:D6:50:ARG:NH1	2.18	0.57
33:D7:9:ARG:HG2	36:DA:1309:G:P	2.44	0.57
36:DA:320:A:C5	41:DF:136:THR:HG21	2.39	0.57
36:DA:327:G:O2'	36:DA:328:U:H5'	2.04	0.57
36:DA:416:C:H2'	36:DA:417:C:H5'	1.85	0.57
36:DA:653:A:N3	36:DA:653:A:H2'	2.19	0.57
36:DA:681:G:H2'	36:DA:682:G:C8	2.39	0.57
36:DA:848:G:N3	36:DA:933:A:H1'	2.19	0.57
36:DA:1577:C:H2'	36:DA:1578:U:C6	2.39	0.57
36:DA:2110:G:N2	36:DA:2178:C:H5	2.02	0.57
36:DA:2856:C:C2'	36:DA:2857:G:H5'	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:65:C:H2'	37:DB:109:C:N4	2.19	0.57
40:DE:60:ASN:OD1	40:DE:62:PRO:HD2	2.05	0.57
40:DE:165:VAL:HG11	40:DE:189:PRO:HB3	1.86	0.57
41:DF:195:ASP:OD2	41:DF:197:ASP:HB2	2.04	0.57
42:DG:47:LYS:HG3	42:DG:81:LYS:HG3	1.86	0.57
50:DR:55:ALA:CB	50:DR:79:LEU:HD11	2.34	0.57
58:DZ:45:ASP:O	58:DZ:47:VAL:N	2.37	0.57
1:AA:269:C:H2'	1:AA:270:A:H8	1.69	0.57
1:AA:1334:G:H3'	1:AA:1335:C:H5''	1.86	0.57
10:AJ:91:PRO:HB2	10:AJ:94:VAL:CB	2.30	0.57
12:AL:55:VAL:HG23	12:AL:68:ALA:O	2.04	0.57
13:AM:14:ARG:N	13:AM:44:ARG:HH11	2.02	0.57
21:AU:4:GLY:O	21:AU:6:ARG:N	2.37	0.57
24:AY:50:G:H2'	24:AY:51:C:C6	2.39	0.57
24:AY:54:5MU:C2'	24:AY:55:PSU:H5'	2.32	0.57
25:AZ:136:ASN:C	25:AZ:138:VAL:N	2.60	0.57
32:B6:8:LYS:HA	32:B6:27:LYS:CD	2.34	0.57
36:BA:41:C:H2'	36:BA:42:G:O4'	2.05	0.57
36:BA:471:A:C2'	36:BA:472:A:H5''	2.34	0.57
36:BA:535:C:O3'	53:BU:53:ARG:HD3	2.04	0.57
36:BA:749:C:H5'	36:BA:1271:G:H1'	1.85	0.57
36:BA:811:U:O2	36:BA:1251:C:C5	2.57	0.57
36:BA:1528(A):A:H62	36:BA:1541:G:N2	2.03	0.57
38:BC:6:ARG:O	38:BC:10:LEU:HD23	2.05	0.57
39:BD:196:VAL:O	39:BD:196:VAL:HG12	2.04	0.57
41:BF:28:ILE:HG21	41:BF:116:ASP:OD1	2.04	0.57
42:BG:165:THR:O	42:BG:168:GLU:HB2	2.04	0.57
43:BH:103:LEU:HB2	43:BH:123:PHE:CD2	2.32	0.57
52:BT:74:ARG:C	52:BT:75:ILE:HD12	2.29	0.57
53:BU:52:ARG:HA	53:BU:55:ARG:HH12	1.69	0.57
57:BY:6:HIS:N	57:BY:6:HIS:CD2	2.70	0.57
57:BY:86:ARG:CG	57:BY:87:LYS:H	2.15	0.57
58:BZ:25:PRO:O	58:BZ:85:HIS:HD2	1.87	0.57
58:BZ:102:LEU:HD21	58:BZ:124:ILE:HD13	1.86	0.57
58:BZ:145:GLU:HG3	58:BZ:146:ILE:H	1.69	0.57
1:CA:22:G:H2'	1:CA:23:C:O4'	2.04	0.57
1:CA:319:G:C4'	1:CA:1468:A:H4'	2.34	0.57
1:CA:523:A:N6	12:CL:53:ARG:HH12	2.01	0.57
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.04	0.57
1:CA:1325:C:H5''	21:CU:15:ARG:NH2	2.19	0.57
1:CA:1349:A:P	9:CI:120:ARG:HB2	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1442(A):G:H5'	1:CA:1442(B):A:OP2	2.05	0.57
4:CD:61:LYS:HA	4:CD:203:VAL:HG13	1.87	0.57
5:CE:6:PHE:HB2	5:CE:34:VAL:HG22	1.86	0.57
5:CE:150:ARG:HH11	5:CE:150:ARG:CB	2.17	0.57
11:CK:120:ARG:HH12	11:CK:126:ARG:CD	2.17	0.57
12:CL:84:LEU:HD23	12:CL:85:ILE:H	1.69	0.57
12:CL:105:TYR:N	12:CL:105:TYR:HD2	2.02	0.57
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	1.86	0.57
21:CU:18:TYR:HB3	21:CU:22:ARG:HG2	1.86	0.57
25:CZ:272:MET:HB3	25:CZ:277:LEU:HD23	1.86	0.57
25:CZ:355:LEU:HB3	25:CZ:359:VAL:CB	2.34	0.57
28:D2:6:VAL:HA	28:D2:9:GLN:HB2	1.86	0.57
36:DA:38:A:O2'	36:DA:39:C:H5'	2.04	0.57
36:DA:548:A:H2'	36:DA:549:G:H5'	1.84	0.57
36:DA:565:C:H4'	36:DA:1253:A:N1	2.19	0.57
36:DA:857:C:H5'	36:DA:858:U:OP2	2.04	0.57
39:DD:35:LYS:HZ3	39:DD:36:PRO:HD3	1.68	0.57
39:DD:85:ASP:OD2	39:DD:88:ARG:NH1	2.37	0.57
48:DP:16:ARG:HD3	48:DP:17:LYS:N	2.19	0.57
49:DQ:10:ARG:HB2	49:DQ:10:ARG:HH11	1.68	0.57
50:DR:28:LEU:HD23	50:DR:29:LEU:N	2.18	0.57
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.05	0.57
51:DS:68:GLN:HA	51:DS:71:ARG:HD3	1.86	0.57
54:DV:40:LEU:HA	54:DV:45:THR:HB	1.86	0.57
55:DW:42:ARG:O	55:DW:42:ARG:HG2	2.04	0.57
56:DX:29:TRP:CZ3	56:DX:78:LYS:HD2	2.39	0.57
57:DY:73:ARG:HB3	57:DY:80:GLY:CA	2.34	0.57
58:DZ:17:ALA:O	58:DZ:20:ARG:CG	2.52	0.57
1:AA:71:C:H2'	1:AA:72:C:C6	2.39	0.57
1:AA:837:G:O2'	1:AA:838:G:H5'	2.04	0.57
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.34	0.57
1:AA:1439:C:H42	1:AA:1463:C:H42	1.50	0.57
1:AA:1490:C:C4	1:AA:1491:G:N7	2.73	0.57
1:AA:1490:C:N3	1:AA:1491:G:N7	2.52	0.57
7:AG:36:LYS:CA	7:AG:39:ALA:HB3	2.33	0.57
8:AH:120:THR:C	8:AH:122:ARG:H	2.11	0.57
10:AJ:7:LYS:C	10:AJ:8:LEU:HD12	2.29	0.57
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.19	0.57
13:AM:6:GLY:C	13:AM:8:GLU:N	2.60	0.57
13:AM:6:GLY:O	13:AM:8:GLU:N	2.36	0.57
16:AP:23:ASP:O	16:AP:25:ARG:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:25:THR:HG22	18:AR:25:THR:O	2.04	0.57
25:AZ:98:GLN:HA	25:AZ:241:ARG:NH2	2.19	0.57
27:B1:56:GLN:O	27:B1:57:GLU:O	2.21	0.57
29:B3:15:TYR:HB3	29:B3:19:GLN:NE2	2.19	0.57
33:B7:19:ARG:NH2	36:BA:124:G:N7	2.52	0.57
34:B8:13:ARG:HD2	48:BP:61:ARG:HD2	1.87	0.57
35:B9:1:MET:HG3	35:B9:31:LYS:O	2.04	0.57
36:BA:195:A:N7	36:BA:197:A:OP1	2.38	0.57
36:BA:1623:G:O2'	36:BA:1624:G:H5'	2.05	0.57
36:BA:2123:G:H1'	38:BC:172:HIS:HB3	1.86	0.57
36:BA:2591:C:OP2	39:BD:239:ARG:HB3	2.05	0.57
36:BA:2785:C:H2'	36:BA:2786:U:H6	1.69	0.57
38:BC:116:THR:HG21	38:BC:147:PHE:CD1	2.39	0.57
40:BE:149:ARG:HG3	40:BE:149:ARG:HH11	1.69	0.57
40:BE:178:GLU:HG3	40:BE:179:GLU:N	2.20	0.57
43:BH:76:VAL:C	43:BH:78:GLY:H	2.12	0.57
45:BK:113:UNK:O	45:BK:114:UNK:CB	2.52	0.57
46:BN:16:ILE:HG23	46:BN:16:ILE:O	2.04	0.57
48:BP:20:GLY:O	48:BP:21:ARG:HB2	2.04	0.57
49:BQ:52:VAL:O	49:BQ:53:ALA:C	2.47	0.57
58:BZ:10:ARG:HG2	58:BZ:12:GLY:N	2.19	0.57
58:BZ:69:THR:HG22	58:BZ:89:PHE:C	2.29	0.57
1:CA:649:G:O2'	1:CA:650:G:H5'	2.04	0.57
1:CA:687:A:H1'	1:CA:688:G:OP2	2.04	0.57
1:CA:1166:G:H1'	1:CA:1171:G:H22	1.69	0.57
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.20	0.57
2:CB:105:PHE:O	2:CB:106:LYS:C	2.46	0.57
3:CC:191:THR:HG21	3:CC:193:TYR:CZ	2.39	0.57
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.68	0.57
4:CD:10:ARG:HG2	4:CD:10:ARG:HH11	1.70	0.57
13:CM:15:VAL:HG23	13:CM:16:ASP:H	1.68	0.57
13:CM:70:LEU:HD23	13:CM:70:LEU:C	2.29	0.57
15:CO:53:HIS:O	15:CO:56:LEU:N	2.37	0.57
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.37	0.57
20:CT:83:ARG:CA	20:CT:86:ARG:HB3	2.34	0.57
25:CZ:68:VAL:HG22	25:CZ:79:HIS:HB3	1.86	0.57
28:D2:3:LEU:CB	36:DA:98:G:OP1	2.51	0.57
32:D6:15:GLU:O	32:D6:17:LYS:N	2.38	0.57
35:D9:2:LYS:HE2	36:DA:2526:G:H1'	1.85	0.57
36:DA:76:C:O2'	36:DA:77:C:H5'	2.05	0.57
36:DA:528:A:H2	36:DA:2043:C:H4'	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:769:G:O4'	36:DA:1379:A:N6	2.37	0.57
36:DA:1308:A:H2'	36:DA:1309:G:O4'	2.05	0.57
36:DA:2289:G:H5''	36:DA:2384:G:H4'	1.87	0.57
36:DA:2724:C:H2'	36:DA:2725:A:C8	2.38	0.57
36:DA:2757:A:H2'	36:DA:2757:A:N3	2.18	0.57
38:DC:131:LEU:HB3	38:DC:136:LEU:CB	2.35	0.57
39:DD:126:GLN:C	39:DD:193:VAL:HG11	2.30	0.57
40:DE:51:PHE:CD1	40:DE:52:LEU:N	2.72	0.57
40:DE:166:THR:C	40:DE:168:MET:H	2.13	0.57
42:DG:67:LYS:N	42:DG:67:LYS:CD	2.67	0.57
48:DP:36:LYS:HB3	48:DP:41:ARG:HB3	1.86	0.57
48:DP:116:GLY:O	48:DP:137:LYS:NZ	2.36	0.57
49:DQ:37:LEU:HD23	49:DQ:37:LEU:N	2.18	0.57
50:DR:54:LEU:HB3	50:DR:62:ALA:HB1	1.85	0.57
51:DS:42:ASP:C	51:DS:44:LYS:N	2.62	0.57
53:DU:28:ARG:HD3	53:DU:38:THR:HG23	1.86	0.57
54:DV:38:LEU:CD1	54:DV:57:VAL:HB	2.34	0.57
1:AA:116:A:H2'	1:AA:117:G:O4'	2.04	0.57
1:AA:445:G:H2'	1:AA:446:G:H8	1.69	0.57
1:AA:598:U:H2'	1:AA:599:C:C6	2.39	0.57
1:AA:601:C:H2'	1:AA:602:A:C8	2.37	0.57
1:AA:1190:G:P	3:AC:5:ILE:HG23	2.45	0.57
1:AA:1435:G:C4	1:AA:1436:U:C5	2.93	0.57
1:AA:1495:U:OP1	13:AM:125:ARG:HD3	2.04	0.57
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.04	0.57
2:AB:8:LYS:HD3	2:AB:217:ARG:NH2	2.19	0.57
3:AC:83:ARG:C	3:AC:85:ARG:H	2.12	0.57
4:AD:25:ARG:C	4:AD:27:TYR:N	2.60	0.57
4:AD:76:ARG:O	4:AD:80:GLU:HG2	2.04	0.57
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.03	0.57
7:AG:24:THR:HA	7:AG:27:ILE:CG1	2.34	0.57
8:AH:63:LEU:HD22	8:AH:63:LEU:N	2.19	0.57
12:AL:32:PHE:HB3	12:AL:84:LEU:CD2	2.35	0.57
20:AT:19:SER:O	20:AT:21:LYS:N	2.38	0.57
36:BA:654(N):G:O2'	36:BA:654(O):G:H5'	2.04	0.57
36:BA:873:G:O2'	36:BA:874:G:H5'	2.05	0.57
36:BA:2333:A:H1'	36:BA:2335:A:C5	2.39	0.57
36:BA:2861:G:HO2'	36:BA:2862:G:H5'	1.68	0.57
36:BA:2864:G:OP1	52:BT:119:LYS:HD2	2.05	0.57
40:BE:60:ASN:OD1	40:BE:62:PRO:HD2	2.05	0.57
41:BF:10:PRO:HG2	41:BF:11:VAL:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:11:VAL:C	41:BF:13:SER:H	2.13	0.57
42:BG:16:ARG:C	42:BG:18:GLU:N	2.61	0.57
42:BG:146:TYR:CG	42:BG:147:ASP:N	2.72	0.57
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.20	0.57
48:BP:36:LYS:HB3	48:BP:41:ARG:HB3	1.86	0.57
48:BP:78:PRO:CB	48:BP:111:ARG:NH2	2.67	0.57
48:BP:147:LEU:HG	48:BP:148:LEU:N	2.20	0.57
49:BQ:67:ARG:HD2	49:BQ:105:GLU:OE1	2.03	0.57
50:BR:28:LEU:HA	50:BR:34:ILE:HG13	1.85	0.57
51:BS:30:ARG:HH11	51:BS:35:ILE:HB	1.68	0.57
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.85	0.57
58:BZ:127:LYS:NZ	58:BZ:164:ALA:HB2	2.20	0.57
1:CA:57:G:N1	1:CA:356:A:C6	2.73	0.57
1:CA:709:G:H2'	1:CA:710:G:H8	1.68	0.57
1:CA:748:C:O2'	1:CA:749:C:O5'	2.22	0.57
1:CA:1413:A:C2	1:CA:1488:G:N2	2.73	0.57
2:CB:109:SER:O	2:CB:110:GLN:C	2.47	0.57
3:CC:179:ARG:HD2	3:CC:207:VAL:HA	1.86	0.57
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.27	0.57
7:CG:63:LYS:HZ2	7:CG:67:GLU:HB2	1.68	0.57
7:CG:101:LEU:O	7:CG:104:LEU:HB2	2.04	0.57
11:CK:124:LYS:NZ	11:CK:124:LYS:CB	2.67	0.57
11:CK:125:PHE:C	11:CK:127:LYS:H	2.10	0.57
25:CZ:19:HIS:HA	25:CZ:115:GLN:HB2	1.87	0.57
25:CZ:228:VAL:HG21	25:CZ:298:VAL:O	2.04	0.57
25:CZ:341:GLN:N	25:CZ:341:GLN:NE2	2.53	0.57
28:D2:27:GLU:O	28:D2:29:LYS:N	2.38	0.57
28:D2:67:LYS:O	28:D2:69:ARG:N	2.31	0.57
32:D6:19:ARG:CD	36:DA:2400:G:H4'	2.21	0.57
34:D8:57:ARG:C	34:D8:59:LYS:H	2.12	0.57
36:DA:284:U:O5'	36:DA:284:U:H6	1.88	0.57
36:DA:321:G:H1'	41:DF:168:ARG:NH2	2.18	0.57
36:DA:674:G:H1'	41:DF:74:ARG:HD3	1.86	0.57
36:DA:1356:G:H2'	36:DA:1357:U:O4'	2.03	0.57
36:DA:1644:C:H2'	36:DA:1644:C:O2	2.03	0.57
36:DA:1892:C:H2'	36:DA:1893:C:C6	2.40	0.57
36:DA:1902:C:H1'	39:DD:244:ARG:HE	1.69	0.57
36:DA:2605:U:H2'	36:DA:2606:C:C6	2.40	0.57
36:DA:2712:U:HO2'	36:DA:2713:A:H5'	1.67	0.57
36:DA:2892:A:N6	36:DA:2893:G:H21	1.90	0.57
40:DE:95:ILE:HD13	40:DE:95:ILE:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:78:ILE:O	41:DF:80:ALA:N	2.38	0.57
41:DF:182:ASN:OD1	41:DF:185:ASP:N	2.29	0.57
42:DG:144:ILE:HG23	42:DG:144:ILE:O	2.03	0.57
46:DN:101:HIS:C	46:DN:103:VAL:N	2.61	0.57
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.17	0.57
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.29	0.57
53:DU:102:GLU:HB2	53:DU:105:VAL:HB	1.86	0.57
56:DX:35:THR:HB	56:DX:38:GLU:HG3	1.86	0.57
58:DZ:7:ALA:HA	58:DZ:39:VAL:HG12	1.85	0.57
1:AA:536:C:O5'	1:AA:536:C:H6	1.87	0.57
1:AA:642:A:O2'	1:AA:643:C:H5'	2.04	0.57
1:AA:751:U:C4'	15:AO:24:SER:HB2	2.32	0.57
1:AA:940:C:H2'	1:AA:941:G:H8	1.69	0.57
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.39	0.57
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.04	0.57
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.03	0.57
17:AQ:40:LYS:HD3	17:AQ:42:TYR:CZ	2.40	0.57
22:AW:38:A:H2'	22:AW:39:U:O4'	2.05	0.57
25:AZ:86:ALA:O	25:AZ:87:ASP:HB2	2.05	0.57
25:AZ:181:GLN:HG2	25:AZ:193:ASN:CB	2.35	0.57
25:AZ:263:ARG:HB2	25:AZ:263:ARG:CZ	2.33	0.57
25:AZ:263:ARG:HB2	25:AZ:263:ARG:NH1	2.20	0.57
26:B0:55:ARG:NH1	36:BA:2384:G:OP2	2.38	0.57
27:B1:11:ARG:NH1	27:B1:11:ARG:CB	2.68	0.57
36:BA:271(J):C:H2'	36:BA:271(J):C:O2	2.03	0.57
36:BA:979:G:H21	36:BA:985:C:H42	1.52	0.57
36:BA:1127:A:O2'	36:BA:2517:C:H4'	2.05	0.57
36:BA:1199:U:H2'	36:BA:1200:C:C6	2.39	0.57
36:BA:1278:A:H5''	50:BR:36:THR:HG22	1.85	0.57
36:BA:1299:G:H4'	36:BA:1301:A:C4	2.40	0.57
36:BA:2026:C:H42	36:BA:2037:G:H1	1.52	0.57
36:BA:2289:G:H5''	36:BA:2384:G:H4'	1.86	0.57
36:BA:2305:A:N6	42:BG:43:LEU:HD13	2.20	0.57
36:BA:2338:G:H2'	36:BA:2339:G:C8	2.37	0.57
36:BA:2514:U:H2'	36:BA:2515:C:H6	1.69	0.57
36:BA:2762:G:C2'	36:BA:2763:G:H5'	2.35	0.57
38:BC:6:ARG:O	38:BC:6:ARG:NH1	2.38	0.57
38:BC:28:LEU:HD23	38:BC:28:LEU:C	2.30	0.57
39:BD:35:LYS:N	39:BD:36:PRO:HD2	2.17	0.57
39:BD:37:LEU:O	39:BD:62:TYR:HB3	2.04	0.57
40:BE:166:THR:C	40:BE:168:MET:H	2.11	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:9:ILE:HG12	41:BF:14:PRO:CA	2.26	0.57
41:BF:45:ARG:CZ	41:BF:97:TYR:CE1	2.88	0.57
42:BG:51:ARG:HD3	42:BG:53:LEU:HD21	1.84	0.57
42:BG:114:ILE:CD1	42:BG:135:LEU:HD11	2.35	0.57
52:BT:64:ARG:HA	52:BT:72:VAL:O	2.05	0.57
52:BT:101:PHE:O	52:BT:102:ILE:C	2.48	0.57
1:CA:274:A:H4'	1:CA:275:G:OP1	2.04	0.57
1:CA:1452:C:H4'	1:CA:1456:G:H5''	1.86	0.57
2:CB:8:LYS:HD3	2:CB:217:ARG:NH2	2.19	0.57
3:CC:60:ALA:H	3:CC:63:ASN:CG	2.12	0.57
3:CC:83:ARG:C	3:CC:85:ARG:H	2.10	0.57
3:CC:114:PRO:O	3:CC:118:GLN:HG3	2.04	0.57
4:CD:11:LEU:N	4:CD:11:LEU:HD23	2.18	0.57
4:CD:129:ASN:HD22	4:CD:129:ASN:N	1.91	0.57
7:CG:118:VAL:HG23	7:CG:119:ARG:N	2.17	0.57
8:CH:2:LEU:CD2	8:CH:3:THR:H	2.18	0.57
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.86	0.57
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.02	0.57
20:CT:57:ARG:HH11	20:CT:103:GLY:N	2.03	0.57
27:D1:63:ALA:HB3	27:D1:66:HIS:CB	2.35	0.57
30:D4:9:LEU:CG	42:DG:98:ARG:HH12	2.17	0.57
36:DA:25:U:H5'	55:DW:79:GLY:HA2	1.86	0.57
36:DA:811:U:O2	36:DA:1251:C:C6	2.58	0.57
36:DA:1099:G:H8	36:DA:1099:G:O5'	1.86	0.57
36:DA:2337:G:H2'	36:DA:2338:G:H8	1.68	0.57
37:DB:17:C:H2'	37:DB:18:G:H8	1.69	0.57
38:DC:98:GLU:O	38:DC:98:GLU:HG3	2.03	0.57
40:DE:97:LYS:O	40:DE:100:GLU:HG3	2.04	0.57
41:DF:65:TRP:CZ3	41:DF:75:HIS:CD2	2.93	0.57
43:DH:74:ASN:OD1	43:DH:138:LYS:HD3	2.04	0.57
45:DK:72:UNK:O	45:DK:73:UNK:C	2.52	0.57
45:DK:117:UNK:O	45:DK:118:UNK:CB	2.52	0.57
46:DN:58:ASP:O	46:DN:60:ILE:HG13	2.05	0.57
51:DS:14:VAL:C	51:DS:15:ARG:HG3	2.30	0.57
53:DU:92:ARG:HD3	53:DU:94:ASN:HB3	1.85	0.57
54:DV:4:ILE:HB	54:DV:39:LEU:O	2.05	0.57
1:AA:15:G:C4'	5:AE:24:ARG:HH21	2.16	0.57
1:AA:52:G:O2'	1:AA:53:A:H5'	2.04	0.57
1:AA:54:C:H2'	1:AA:352:C:N4	2.20	0.57
1:AA:292:G:H1	1:AA:308:C:H42	1.51	0.57
1:AA:939:G:H2'	1:AA:940:C:C5	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.39	0.57
1:AA:1306:A:OP1	21:AU:6:ARG:NH2	2.37	0.57
2:AB:60:ASP:HB3	2:AB:64:ARG:HH21	1.70	0.57
2:AB:182:ILE:O	2:AB:184:VAL:HG23	2.04	0.57
2:AB:200:ILE:HG22	2:AB:201:ILE:N	2.18	0.57
3:AC:83:ARG:C	3:AC:85:ARG:N	2.62	0.57
5:AE:103:GLY:O	5:AE:107:ARG:HB3	2.05	0.57
6:AF:7:ASN:OD1	6:AF:62:TRP:HD1	1.88	0.57
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.04	0.57
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	1.85	0.57
16:AP:55:ARG:NH2	16:AP:58:TYR:CD2	2.72	0.57
20:AT:19:SER:C	20:AT:21:LYS:N	2.59	0.57
24:AY:77:THR:HG22	25:AZ:239:THR:CG2	2.35	0.57
25:AZ:149:LEU:O	25:AZ:149:LEU:HD12	2.04	0.57
26:B0:47:PRO:O	26:B0:78:TYR:HD2	1.87	0.57
36:BA:18:C:O3'	53:BU:23:GLY:HA2	2.04	0.57
36:BA:537:C:H42	36:BA:556:G:N2	2.02	0.57
36:BA:553:G:H2'	36:BA:554:U:O4'	2.05	0.57
36:BA:584:C:OP1	53:BU:6:THR:HB	2.04	0.57
36:BA:1027:A:H2	36:BA:1028:A:N7	2.03	0.57
36:BA:2881:C:H2'	36:BA:2882:A:H8	1.70	0.57
37:BB:25:A:N3	37:BB:25:A:H2'	2.18	0.57
39:BD:48:ARG:HG3	39:BD:48:ARG:HH11	1.69	0.57
39:BD:125:ILE:O	39:BD:125:ILE:HG22	2.03	0.57
42:BG:19:LEU:CD2	42:BG:175:LEU:HD12	2.35	0.57
42:BG:31:VAL:O	42:BG:31:VAL:HG13	2.02	0.57
42:BG:144:ILE:HG23	42:BG:144:ILE:O	2.04	0.57
42:BG:163:ALA:CB	42:BG:169:ALA:HB2	2.27	0.57
43:BH:85:LYS:NZ	43:BH:133:VAL:H	1.97	0.57
54:BV:52:VAL:HG22	54:BV:52:VAL:O	2.03	0.57
58:BZ:92:SER:O	58:BZ:130:PRO:HG2	2.05	0.57
58:BZ:163:LEU:CG	58:BZ:165:VAL:HG23	2.35	0.57
1:CA:427:U:OP1	4:CD:13:ARG:NH2	2.37	0.57
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.05	0.57
1:CA:963:G:H1	1:CA:972:C:H42	1.51	0.57
1:CA:1039:C:H2'	1:CA:1040:U:C6	2.39	0.57
1:CA:1199:U:H4'	10:CJ:54:PHE:CE2	2.38	0.57
1:CA:1281:U:H3'	1:CA:1282:C:C6	2.40	0.57
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.19	0.57
1:CA:1372:U:OP1	9:CI:72:GLY:N	2.37	0.57
2:CB:60:ASP:HB3	2:CB:64:ARG:HH21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:2:GLY:O	4:CD:4:TYR:N	2.38	0.57
7:CG:42:ILE:CG2	7:CG:117:ALA:HA	2.30	0.57
12:CL:28:LYS:O	12:CL:29:GLY:C	2.48	0.57
12:CL:94:PRO:O	12:CL:96:VAL:N	2.38	0.57
14:CN:22:THR:O	14:CN:23:ARG:CB	2.51	0.57
14:CN:42:ILE:CG2	14:CN:43:CYS:N	2.67	0.57
19:CS:6:LYS:C	19:CS:7:LYS:HE3	2.29	0.57
20:CT:8:ARG:HG3	20:CT:8:ARG:HH11	1.70	0.57
25:CZ:140:MET:CG	62:CZ:501:GDP:HN21	2.18	0.57
25:CZ:316:PHE:C	25:CZ:371:THR:HG23	2.29	0.57
26:D0:47:PRO:HB3	26:D0:51:VAL:O	2.04	0.57
27:D1:71:TYR:O	27:D1:74:VAL:HB	2.05	0.57
28:D2:25:VAL:C	28:D2:27:GLU:N	2.60	0.57
33:D7:19:ARG:NH2	36:DA:124:G:C5	2.72	0.57
34:D8:18:ALA:HB2	36:DA:628:G:H5''	1.87	0.57
34:D8:22:VAL:CG2	34:D8:53:PRO:HB2	2.35	0.57
36:DA:304:G:H2'	36:DA:305:U:C6	2.39	0.57
36:DA:1528(A):A:H8	36:DA:1529:G:C8	2.21	0.57
36:DA:1574:C:H2'	36:DA:1575:C:C6	2.40	0.57
36:DA:2138:C:O2'	36:DA:2139:C:H5'	2.05	0.57
36:DA:2282:G:H5''	36:DA:2283:C:O4'	2.05	0.57
36:DA:2853:C:H2'	36:DA:2854:G:C8	2.40	0.57
36:DA:2885:C:H2'	36:DA:2886:G:O4'	2.04	0.57
38:DC:7:TYR:CZ	38:DC:11:LEU:HD21	2.40	0.57
40:DE:4:ILE:O	40:DE:5:LEU:HD23	2.05	0.57
42:DG:46:ALA:CB	42:DG:88:ILE:CG1	2.81	0.57
42:DG:85:GLY:O	42:DG:87:PRO:HD3	2.04	0.57
43:DH:103:LEU:HB2	43:DH:123:PHE:CD2	2.33	0.57
50:DR:37:THR:HG23	50:DR:40:LYS:HE2	1.87	0.57
55:DW:12:ILE:HD12	55:DW:42:ARG:HH12	1.68	0.57
1:AA:909:A:OP1	12:AL:21:LYS:HD3	2.04	0.57
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.69	0.57
1:AA:1418:A:N3	36:BA:1959:G:H1'	2.20	0.57
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.86	0.57
2:AB:26:PRO:C	2:AB:28:PHE:H	2.12	0.57
2:AB:36:ARG:C	2:AB:38:GLY:N	2.60	0.57
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.20	0.57
9:AI:79:LEU:HD21	9:AI:102:LEU:O	2.04	0.57
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.03	0.57
25:AZ:68:VAL:HG22	25:AZ:79:HIS:HB3	1.87	0.57
25:AZ:334:PHE:O	25:AZ:361:MET:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:16:ARG:HD3	36:BA:1263:U:H5''	1.87	0.57
33:B7:13:ALA:O	33:B7:17:GLY:HA3	2.05	0.57
35:B9:1:MET:SD	36:BA:2478:A:OP2	2.62	0.57
36:BA:20:C:O2'	36:BA:21:A:H5'	2.05	0.57
36:BA:327:G:O2'	36:BA:328:U:H5'	2.04	0.57
36:BA:669:G:C2	36:BA:801:G:C6	2.93	0.57
36:BA:769:G:H2'	36:BA:770:G:H8	1.70	0.57
36:BA:811:U:O2	36:BA:1251:C:C6	2.58	0.57
36:BA:2312:U:H5''	42:BG:74:LYS:NZ	2.19	0.57
36:BA:2410:G:H2'	36:BA:2411:A:H8	1.69	0.57
36:BA:2467:C:O2'	36:BA:2468:G:H5'	2.04	0.57
38:BC:41:VAL:N	38:BC:176:GLY:O	2.38	0.57
40:BE:120:TRP:NE1	40:BE:155:LYS:HB3	2.19	0.57
42:BG:52:ILE:H	42:BG:52:ILE:CD1	2.08	0.57
43:BH:86:GLU:OE1	43:BH:165:ALA:HB2	2.04	0.57
46:BN:131:GLN:HE22	46:BN:133:GLN:CA	2.17	0.57
48:BP:88:LEU:HD21	48:BP:95:VAL:HG21	1.86	0.57
53:BU:28:ARG:HD3	53:BU:38:THR:HG23	1.87	0.57
54:BV:19:LYS:HB3	54:BV:94:LEU:O	2.04	0.57
57:BY:39:VAL:CG1	57:BY:40:GLU:H	2.11	0.57
1:CA:198:G:HO2'	1:CA:199:G:H8	1.51	0.57
1:CA:390:C:H4'	16:CP:28:ARG:NH1	2.20	0.57
1:CA:973:G:O4'	10:CJ:55:LYS:HE2	2.04	0.57
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.40	0.57
1:CA:1410:G:C2'	1:CA:1411:C:H5'	2.33	0.57
2:CB:47:THR:HG22	2:CB:51:LEU:HD11	1.87	0.57
4:CD:17:VAL:HG11	4:CD:197:PRO:HB2	1.86	0.57
4:CD:49:ARG:O	4:CD:51:PRO:N	2.37	0.57
4:CD:76:ARG:O	4:CD:79:PHE:HB3	2.05	0.57
7:CG:22:LEU:HD23	7:CG:22:LEU:C	2.30	0.57
10:CJ:16:LEU:HD13	10:CJ:16:LEU:C	2.29	0.57
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.47	0.57
13:CM:68:GLY:O	13:CM:70:LEU:N	2.37	0.57
20:CT:89:ARG:C	20:CT:91:LEU:H	2.12	0.57
22:CV:18:G:H4'	22:CV:60:U:O2	2.04	0.57
22:CW:67:C:O2'	22:CW:68:C:H5'	2.05	0.57
24:CY:9:A:H62	24:CY:23:A:H62	1.52	0.57
25:CZ:267:VAL:HG23	25:CZ:288:VAL:HG13	1.87	0.57
26:D0:50:ASN:ND2	26:D0:63:VAL:HG21	2.20	0.57
28:D2:21:LEU:HD21	28:D2:60:LEU:CD2	2.34	0.57
33:D7:19:ARG:NH2	36:DA:124:G:N7	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:39:LYS:HZ2	36:DA:2364:C:H5	1.52	0.57
36:DA:271(P):C:H2'	36:DA:271(Q):G:C5'	2.29	0.57
36:DA:343:C:C2'	36:DA:344:G:O5'	2.52	0.57
36:DA:464:U:H2'	36:DA:465:G:O4'	2.05	0.57
36:DA:497:A:H2'	36:DA:498:G:C8	2.40	0.57
36:DA:607:U:H3	36:DA:621:A:H2	1.51	0.57
36:DA:747:U:C5	36:DA:2613:U:C5	2.92	0.57
36:DA:1131:G:OP2	36:DA:2515:C:H4'	2.05	0.57
36:DA:1144:G:H2'	36:DA:1145:C:H6	1.70	0.57
36:DA:1907:G:O2'	36:DA:1908:C:H5'	2.05	0.57
36:DA:2222:G:N3	36:DA:2223:G:C8	2.73	0.57
36:DA:2376:A:N6	51:DS:92:TYR:CE2	2.73	0.57
36:DA:2807:G:H3'	36:DA:2808:U:C5'	2.24	0.57
37:DB:15:A:H1'	37:DB:110:G:C5	2.39	0.57
37:DB:101:G:H2'	37:DB:102:A:O4'	2.04	0.57
40:DE:69:LYS:HE2	40:DE:69:LYS:N	2.19	0.57
41:DF:20:LEU:H	41:DF:24:LEU:HD21	1.70	0.57
42:DG:119:GLY:HA3	42:DG:181:ARG:HA	1.87	0.57
43:DH:30:LYS:HA	43:DH:30:LYS:HE2	1.86	0.57
48:DP:134:ALA:HB2	48:DP:137:LYS:HZ2	1.69	0.57
53:DU:9:VAL:O	53:DU:13:LYS:HE2	2.05	0.57
57:DY:50:ARG:CB	57:DY:53:PRO:HG3	2.18	0.57
58:DZ:28:MET:O	58:DZ:29:TYR:HB3	2.05	0.57
58:DZ:29:TYR:HA	58:DZ:33:LEU:O	2.05	0.57
1:AA:1215:G:H2'	1:AA:1215:G:N3	2.20	0.57
1:AA:1271:G:H5'	1:AA:1314:C:H5''	1.85	0.57
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.20	0.57
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.38	0.57
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.35	0.57
4:AD:10:ARG:HG2	4:AD:10:ARG:HH11	1.70	0.57
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	1.86	0.57
6:AF:2:ARG:CD	6:AF:69:GLU:HB3	2.34	0.57
7:AG:95:ARG:O	7:AG:96:GLN:C	2.47	0.57
7:AG:121:ALA:O	7:AG:124:LEU:N	2.37	0.57
11:AK:41:THR:HG21	11:AK:72:ALA:HA	1.87	0.57
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.16	0.57
13:AM:65:LYS:HD2	13:AM:69:GLU:O	2.05	0.57
18:AR:37:VAL:HG12	18:AR:78:LEU:HB3	1.87	0.57
20:AT:33:ILE:HG23	20:AT:63:ILE:HG12	1.86	0.57
27:B1:3:LYS:HB3	27:B1:3:LYS:HZ3	1.69	0.57
31:B5:51:TYR:HB3	31:B5:54:GLY:HA3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:573:G:H5'	36:BA:575:A:N7	2.20	0.57
36:BA:1010:A:H1'	36:BA:1153:C:C1'	2.33	0.57
36:BA:1440:G:H2'	36:BA:1441:G:H8	1.70	0.57
36:BA:1511:C:H2'	36:BA:1512:U:H6	1.69	0.57
36:BA:1551:C:C2'	36:BA:1552:G:H5'	2.35	0.57
36:BA:2460:U:H2'	36:BA:2461:C:O4'	2.04	0.57
36:BA:2480:C:OP1	36:BA:2537:U:H4'	2.05	0.57
36:BA:2656:U:H2'	36:BA:2657:A:H5''	1.87	0.57
36:BA:2728:U:O2'	40:BE:22:PRO:HG3	2.05	0.57
38:BC:1:PRO:C	38:BC:3:HIS:H	2.13	0.57
38:BC:98:GLU:O	38:BC:98:GLU:HG3	2.04	0.57
40:BE:1:MET:N	40:BE:83:ASP:O	2.36	0.57
42:BG:20:ILE:CG2	42:BG:25:TYR:HB2	2.35	0.57
47:BO:91:LEU:HD13	47:BO:111:PHE:HE1	1.70	0.57
48:BP:134:ALA:HB2	48:BP:137:LYS:NZ	2.19	0.57
55:BW:52:GLU:C	55:BW:54:ALA:N	2.62	0.57
57:BY:98:VAL:O	57:BY:98:VAL:HG12	2.05	0.57
1:CA:226:G:C2'	1:CA:227:G:H5'	2.34	0.57
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.69	0.57
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.70	0.57
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	1.86	0.57
7:CG:16:LEU:HD13	9:CI:42:ARG:HA	1.85	0.57
9:CI:79:LEU:HD21	9:CI:102:LEU:O	2.05	0.57
25:CZ:181:GLN:HG2	25:CZ:193:ASN:CB	2.34	0.57
27:D1:37:ILE:HD11	36:DA:201:C:OP2	2.05	0.57
32:D6:30:THR:O	32:D6:31:PRO:C	2.47	0.57
36:DA:65:C:H5'	56:DX:71:GLY:HA3	1.86	0.57
36:DA:116:C:O2'	36:DA:126:A:N3	2.36	0.57
36:DA:438:G:H2'	36:DA:440:G:H8	1.70	0.57
36:DA:537:C:H42	36:DA:556:G:N2	2.01	0.57
36:DA:667:U:H2'	36:DA:668:G:O4'	2.05	0.57
36:DA:744:G:H2'	36:DA:745:G:O4'	2.05	0.57
36:DA:749:C:H5'	36:DA:1271:G:H1'	1.87	0.57
36:DA:1005:C:H2'	36:DA:1006:C:H6	1.67	0.57
36:DA:1378:A:O2'	36:DA:1379:A:C5'	2.47	0.57
36:DA:2283:C:H5	36:DA:2389:G:H2'	1.69	0.57
36:DA:2530:A:H2'	36:DA:2531:A:H5''	1.87	0.57
36:DA:2584:U:O5'	36:DA:2584:U:O2	2.23	0.57
36:DA:2647:U:O2'	36:DA:2648:C:H5'	2.04	0.57
36:DA:2856:C:H2'	36:DA:2857:G:H5'	1.87	0.57
38:DC:214:VAL:CG2	38:DC:224:ILE:HD13	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:252:TRP:H	39:DD:252:TRP:CD1	2.23	0.57
45:DK:95:UNK:O	45:DK:97:UNK:N	2.37	0.57
46:DN:24:GLY:C	46:DN:26:LEU:N	2.62	0.57
47:DO:52:VAL:C	47:DO:53:LYS:HD2	2.29	0.57
53:DU:92:ARG:HH22	54:DV:10:LYS:HB3	1.70	0.57
55:DW:14:PRO:HG2	55:DW:78:GLU:HB2	1.87	0.57
1:AA:194:C:C2'	1:AA:195:A:H5''	2.31	0.57
1:AA:291:C:O2'	1:AA:292:G:H5'	2.05	0.57
1:AA:310:G:H4'	16:AP:31:LYS:HD2	1.87	0.57
6:AF:3:ARG:NH1	6:AF:38:GLU:OE1	2.38	0.57
6:AF:33:TYR:CB	6:AF:75:LEU:HD13	2.35	0.57
12:AL:62:SER:O	12:AL:64:TYR:N	2.38	0.57
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.38	0.57
24:AY:76:A:H61	25:AZ:234:ARG:CZ	2.17	0.57
25:AZ:19:HIS:CD2	25:AZ:115:GLN:HB2	2.40	0.57
25:AZ:197:ASP:HA	25:AZ:200:TRP:CD1	2.40	0.57
26:B0:30:VAL:HG12	26:B0:66:VAL:HG23	1.87	0.57
27:B1:89:GLU:O	27:B1:93:GLU:HB2	2.05	0.57
32:B6:8:LYS:HD3	32:B6:27:LYS:HD3	1.87	0.57
36:BA:442:G:H21	41:BF:48:THR:HB	1.69	0.57
36:BA:444:C:H4'	53:BU:2:PRO:HD3	1.86	0.57
36:BA:988:A:O5'	36:BA:988:A:C8	2.57	0.57
36:BA:1121:C:H2'	36:BA:1122:G:C8	2.39	0.57
36:BA:1326:U:O2'	36:BA:1327:C:H5'	2.05	0.57
36:BA:1403:C:H5''	36:BA:1471:A:C1'	2.34	0.57
36:BA:1427:A:H4'	36:BA:1428:C:O5'	2.05	0.57
36:BA:1440:G:N2	36:BA:1552:G:H1'	2.20	0.57
36:BA:1528(A):A:H8	36:BA:1529:G:C8	2.23	0.57
36:BA:2292:C:H42	36:BA:2340:G:H1	1.52	0.57
36:BA:2558:C:H2'	36:BA:2559:C:H6	1.69	0.57
40:BE:34:VAL:HG11	40:BE:78:LEU:HD22	1.87	0.57
40:BE:111:ARG:HA	50:BR:2:ARG:HG3	1.85	0.57
43:BH:156:ALA:C	43:BH:158:HIS:H	2.13	0.57
52:BT:59:THR:OG1	52:BT:78:LEU:HD12	2.05	0.57
53:BU:20:LEU:HD22	53:BU:20:LEU:N	2.20	0.57
53:BU:28:ARG:HD3	53:BU:38:THR:CG2	2.34	0.57
1:CA:193:C:O4'	20:CT:60:GLU:CD	2.48	0.57
1:CA:438:G:H5'	4:CD:123:HIS:ND1	2.11	0.57
1:CA:1221:G:P	19:CS:36:ARG:HD3	2.44	0.57
1:CA:1442:G:H1	1:CA:1461:G:H21	1.51	0.57
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:84:GLU:OE1	2:CB:216:SER:HA	2.05	0.57
2:CB:184:VAL:O	2:CB:198:ASP:N	2.38	0.57
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.19	0.57
10:CJ:4:ILE:O	10:CJ:74:ILE:HG12	2.04	0.57
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	1.86	0.57
10:CJ:47:PHE:CE2	14:CN:37:PHE:HE2	2.22	0.57
12:CL:41:ARG:HH12	12:CL:57:LYS:NZ	2.02	0.57
21:CU:2:GLY:O	21:CU:4:GLY:N	2.37	0.57
25:CZ:38:GLU:OE1	25:CZ:200:TRP:HH2	1.88	0.57
25:CZ:98:GLN:HA	25:CZ:241:ARG:NH2	2.20	0.57
25:CZ:146:LEU:O	25:CZ:150:VAL:HG23	2.04	0.57
33:D7:18:PHE:H	33:D7:43:THR:HG21	1.70	0.57
35:D9:1:MET:HG3	35:D9:31:LYS:O	2.04	0.57
35:D9:7:VAL:CG2	35:D9:36:GLN:HB2	2.35	0.57
36:DA:302:C:O2'	36:DA:303:U:H5'	2.04	0.57
36:DA:792:G:H2'	36:DA:2440:C:O2	2.04	0.57
36:DA:1020:A:N1	36:DA:1141:U:H1'	2.20	0.57
36:DA:1308:A:N1	36:DA:1611:C:H1'	2.20	0.57
36:DA:1526:G:O2'	36:DA:1527:G:H5'	2.04	0.57
36:DA:1622:G:H2'	36:DA:1623:G:H8	1.69	0.57
36:DA:1805:U:H4'	39:DD:250:TRP:CZ2	2.40	0.57
36:DA:2010:G:OP2	55:DW:41:LYS:NZ	2.36	0.57
36:DA:2443:C:C2'	36:DA:2444:G:H5'	2.35	0.57
38:DC:20:TYR:HB3	38:DC:24:GLU:HB2	1.87	0.57
38:DC:77:ILE:O	38:DC:78:ALA:O	2.23	0.57
38:DC:198:ALA:O	38:DC:200:LYS:N	2.38	0.57
39:DD:247:ALA:HB1	39:DD:252:TRP:O	2.05	0.57
40:DE:1:MET:O	40:DE:2:LYS:C	2.46	0.57
40:DE:76:ARG:O	40:DE:77:ILE:O	2.23	0.57
40:DE:149:ARG:HG3	40:DE:149:ARG:HH11	1.70	0.57
41:DF:32:LEU:HD22	41:DF:109:GLY:HA3	1.87	0.57
42:DG:54:GLU:C	42:DG:57:ALA:H	2.13	0.57
58:DZ:75:ASN:O	58:DZ:84:GLU:HB2	2.05	0.57
1:AA:189(H):G:O2'	1:AA:189(I):G:H8	1.87	0.56
1:AA:727:G:C2	1:AA:731:G:C6	2.93	0.56
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.35	0.56
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.05	0.56
2:AB:84:GLU:OE1	2:AB:216:SER:HA	2.04	0.56
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.04	0.56
3:AC:191:THR:HG21	3:AC:193:TYR:CZ	2.40	0.56
5:AE:45:PHE:CE2	5:AE:47:LYS:HD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:4:ILE:O	10:AJ:74:ILE:HG12	2.05	0.56
11:AK:111:ASP:OD2	18:AR:84:LYS:HE3	2.05	0.56
15:AO:53:HIS:O	15:AO:56:LEU:N	2.38	0.56
25:AZ:38:GLU:OE1	25:AZ:200:TRP:HH2	1.88	0.56
29:B3:52:HIS:H	29:B3:52:HIS:CD2	2.22	0.56
30:B4:7:PRO:HD3	42:BG:67:LYS:HE3	1.88	0.56
34:B8:8:LYS:HG2	34:B8:11:LYS:HD3	1.86	0.56
36:BA:149:A:C2	36:BA:150:C:C2	2.93	0.56
36:BA:536:A:P	53:BU:53:ARG:HH11	2.28	0.56
36:BA:843:G:O2'	36:BA:844:C:H5'	2.05	0.56
36:BA:1274:A:N3	36:BA:1297:C:H1'	2.20	0.56
36:BA:1577:C:H2'	36:BA:1578:U:C6	2.40	0.56
36:BA:2101:G:H2'	36:BA:2102:U:C4'	2.35	0.56
36:BA:2193:G:H8	36:BA:2193:G:H5'	1.70	0.56
36:BA:2710:C:O2'	36:BA:2711:A:H5'	2.04	0.56
36:BA:2737:G:H2'	36:BA:2738:A:C8	2.39	0.56
40:BE:81:ILE:O	40:BE:81:ILE:CG2	2.53	0.56
46:BN:24:GLY:C	46:BN:26:LEU:N	2.61	0.56
48:BP:24:GLY:CA	48:BP:33:ARG:HH12	2.18	0.56
52:BT:78:LEU:C	52:BT:79:HIS:CD2	2.83	0.56
55:BW:64:MET:HB3	55:BW:109:GLU:CG	2.35	0.56
55:BW:69:LEU:HA	55:BW:108:GLY:O	2.05	0.56
56:BX:65:ARG:O	56:BX:66:LEU:HB2	2.04	0.56
58:BZ:125:LEU:HG	58:BZ:164:ALA:HB3	1.87	0.56
1:CA:137:C:H42	1:CA:226:G:H1	1.53	0.56
1:CA:200:G:H1	1:CA:217:C:N4	2.03	0.56
1:CA:977:A:N3	1:CA:977:A:C2'	2.68	0.56
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.40	0.56
1:CA:1505:G:H4'	1:CA:1506:U:H5'	1.86	0.56
1:CA:1523:G:H2'	1:CA:1524:C:H6	1.66	0.56
5:CE:36:ASP:O	5:CE:37:ARG:C	2.47	0.56
6:CF:7:ASN:C	6:CF:8:ILE:HG13	2.29	0.56
7:CG:31:MET:HB2	7:CG:39:ALA:HB1	1.87	0.56
8:CH:30:ARG:HB3	8:CH:30:ARG:CZ	2.34	0.56
13:CM:57:ARG:HG2	13:CM:61:GLU:CB	2.34	0.56
14:CN:29:ARG:HH11	14:CN:29:ARG:CG	2.17	0.56
15:CO:9:GLN:O	15:CO:10:LYS:C	2.47	0.56
24:CY:56:C:H1'	36:DA:1067:A:H1'	1.87	0.56
24:CY:64:C:O4'	25:CZ:391:GLY:HA2	2.05	0.56
25:CZ:134:PHE:CE2	25:CZ:136:ASN:HB2	2.40	0.56
25:CZ:150:VAL:O	25:CZ:154:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:254:GLU:HG3	25:CZ:307:PRO:HA	1.87	0.56
25:CZ:334:PHE:O	25:CZ:361:MET:HA	2.05	0.56
25:CZ:362:VAL:HG11	25:CZ:368:VAL:CG2	2.35	0.56
28:D2:54:LYS:HG2	36:DA:73:A:OP1	2.04	0.56
32:D6:5:VAL:HG21	36:DA:2283:C:C5'	2.35	0.56
34:D8:61:LEU:CD1	34:D8:62:LEU:HG	2.35	0.56
34:D8:61:LEU:HD12	34:D8:62:LEU:N	2.20	0.56
35:D9:12:ASP:CG	35:D9:13:LYS:H	2.13	0.56
36:DA:465:G:H2'	36:DA:466:A:C8	2.39	0.56
36:DA:531:C:C5	36:DA:2035:G:C2	2.93	0.56
36:DA:597:U:H4'	48:DP:15:ARG:CZ	2.35	0.56
36:DA:661:C:H2'	36:DA:662:G:C8	2.40	0.56
36:DA:745:G:OP2	40:DE:133:LYS:HD2	2.05	0.56
36:DA:784:A:HO2'	36:DA:785:G:H8	1.53	0.56
36:DA:978:G:H1	36:DA:985:C:H42	1.53	0.56
36:DA:1779:U:C5	36:DA:1784:A:N7	2.73	0.56
36:DA:2073:C:H2'	36:DA:2074:U:H6	1.69	0.56
36:DA:2196:C:O2'	36:DA:2197:U:H5'	2.05	0.56
36:DA:2520:C:C6	36:DA:2567:G:H1'	2.40	0.56
41:DF:65:TRP:CZ3	41:DF:75:HIS:HD2	2.23	0.56
41:DF:202:PHE:O	41:DF:206:ILE:HG12	2.04	0.56
42:DG:59:GLU:C	42:DG:61:ALA:H	2.13	0.56
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.38	0.56
53:DU:10:ARG:O	53:DU:11:ARG:C	2.47	0.56
54:DV:52:VAL:HG22	54:DV:52:VAL:O	2.04	0.56
57:DY:2:ARG:C	57:DY:4:LYS:N	2.63	0.56
57:DY:27:VAL:HG12	57:DY:29:GLU:H	1.70	0.56
58:DZ:61:LEU:HD11	58:DZ:67:LEU:CD1	2.35	0.56
1:AA:193:C:O4'	20:AT:60:GLU:CD	2.48	0.56
1:AA:1041:A:H2'	1:AA:1042:G:H8	1.69	0.56
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.19	0.56
1:AA:1498:U:C4	23:AX:20:U:C5'	2.88	0.56
2:AB:32:ILE:HG12	2:AB:33:TYR:H	1.70	0.56
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.19	0.56
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.23	0.56
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.70	0.56
3:AC:13:GLY:C	3:AC:14:ILE:HG22	2.30	0.56
4:AD:165:MET:O	4:AD:166:LYS:C	2.49	0.56
9:AI:11:LYS:O	9:AI:13:ALA:N	2.39	0.56
11:AK:57:THR:HG22	11:AK:60:ALA:HB3	1.87	0.56
13:AM:32:GLU:C	13:AM:34:LEU:H	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:18:TYR:HB3	21:AU:22:ARG:HG2	1.87	0.56
22:AV:76:A:N7	26:B0:2:ALA:HB2	2.20	0.56
25:AZ:316:PHE:O	25:AZ:371:THR:HG23	2.05	0.56
25:AZ:389:ARG:CA	25:AZ:395:VAL:HG13	2.34	0.56
28:B2:31:GLU:O	28:B2:32:LEU:C	2.44	0.56
29:B3:15:TYR:CD2	29:B3:19:GLN:NE2	2.72	0.56
30:B4:6:HIS:CA	42:BG:67:LYS:HE3	2.35	0.56
34:B8:13:ARG:NH1	48:BP:59:LEU:HG	2.20	0.56
34:B8:62:LEU:CD1	36:BA:242:G:H3'	2.30	0.56
36:BA:25:U:H5'	55:BW:79:GLY:HA2	1.87	0.56
36:BA:31:C:H2'	36:BA:32:C:C4'	2.34	0.56
36:BA:37:C:H2'	36:BA:38:A:C8	2.40	0.56
36:BA:572:A:H5'	54:BV:78:LYS:HZ1	1.70	0.56
36:BA:653:A:N3	36:BA:653:A:H2'	2.19	0.56
36:BA:662:G:H5'	48:BP:18:ARG:C	2.30	0.56
36:BA:920:G:H2'	36:BA:921:G:H8	1.70	0.56
36:BA:953:A:OP2	49:BQ:16:ARG:CZ	2.53	0.56
36:BA:1011:G:O2'	36:BA:1013:C:C5'	2.54	0.56
36:BA:1336:A:H2'	36:BA:1337:G:H8	1.69	0.56
36:BA:1525:G:H2'	36:BA:1526:G:H8	1.70	0.56
36:BA:1761:C:H2'	36:BA:1762:A:H8	1.71	0.56
36:BA:2246:G:H2'	36:BA:2247:A:H8	1.65	0.56
36:BA:2422:A:C8	36:BA:2422:A:H3'	2.40	0.56
36:BA:2761:G:H2'	36:BA:2762:G:C5'	2.11	0.56
36:BA:2801(A):A:H5'	36:BA:2802:G:H8	1.70	0.56
37:BB:50:G:OP1	51:BS:63:THR:HG23	2.03	0.56
37:BB:74:U:H2'	37:BB:75:G:C1'	2.35	0.56
39:BD:95:LEU:HD12	39:BD:95:LEU:H	1.70	0.56
41:BF:84:VAL:O	41:BF:86:GLY:N	2.35	0.56
42:BG:47:LYS:HE3	42:BG:81:LYS:HG3	1.87	0.56
43:BH:167:GLU:HG2	43:BH:168:PRO:HD2	1.87	0.56
52:BT:6:LEU:HA	52:BT:9:LEU:HD12	1.87	0.56
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	2.06	0.56
54:BV:40:LEU:HA	54:BV:45:THR:HB	1.87	0.56
57:BY:27:VAL:HG12	57:BY:29:GLU:H	1.70	0.56
58:BZ:61:LEU:C	58:BZ:63:ASP:N	2.58	0.56
58:BZ:77:ASP:OD2	58:BZ:79:ARG:O	2.23	0.56
1:CA:472:A:O2'	16:CP:81:ARG:HG3	2.05	0.56
1:CA:475:G:O2'	1:CA:476:G:H5'	2.05	0.56
1:CA:619:U:C4	4:CD:135:LEU:HD11	2.39	0.56
1:CA:879:C:O2'	1:CA:880:C:H5'	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1503:A:C2'	23:CX:16:A:H62	2.12	0.56
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.87	0.56
2:CB:77:ALA:CA	2:CB:80:ILE:HD13	2.32	0.56
4:CD:165:MET:HE3	4:CD:176:LEU:CD2	2.36	0.56
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.40	0.56
7:CG:95:ARG:O	7:CG:96:GLN:C	2.47	0.56
7:CG:143:ARG:O	7:CG:144:MET:C	2.46	0.56
10:CJ:7:LYS:C	10:CJ:8:LEU:HD12	2.30	0.56
10:CJ:8:LEU:CG	10:CJ:96:ILE:HG22	2.35	0.56
18:CR:59:SER:O	18:CR:60:ALA:C	2.47	0.56
24:CY:75:C:C6	25:CZ:231:ILE:HG23	2.36	0.56
28:D2:35:LEU:O	28:D2:35:LEU:HD22	2.05	0.56
29:D3:7:LYS:HB3	29:D3:55:ARG:HB2	1.87	0.56
32:D6:6:ARG:HH12	32:D6:7:ILE:HG13	1.70	0.56
36:DA:6:A:H2'	36:DA:7:G:H8	1.70	0.56
36:DA:37:C:H2'	36:DA:38:A:C8	2.39	0.56
36:DA:520:G:H2'	36:DA:521:G:H8	1.68	0.56
36:DA:654(A):G:H5'	36:DA:654(B):C:OP2	2.05	0.56
36:DA:697:C:O2'	36:DA:698:C:H5'	2.06	0.56
36:DA:988:A:O5'	36:DA:988:A:C8	2.58	0.56
36:DA:1682:G:H2'	36:DA:1683:C:C6	2.39	0.56
36:DA:2101:G:H2'	36:DA:2102:U:C4'	2.35	0.56
36:DA:2115:G:H22	36:DA:2119:A:P	2.27	0.56
36:DA:2243:U:H2'	36:DA:2244:U:C5	2.40	0.56
36:DA:2277:G:C6	36:DA:2278:A:N7	2.73	0.56
41:DF:7:TYR:OH	41:DF:10:PRO:HG3	2.05	0.56
41:DF:88:VAL:HG22	41:DF:89:VAL:H	1.70	0.56
41:DF:132:VAL:HG13	41:DF:133:ASN:N	2.20	0.56
42:DG:18:GLU:OE2	42:DG:18:GLU:HA	2.05	0.56
42:DG:31:VAL:O	42:DG:31:VAL:HG13	2.05	0.56
48:DP:130:PHE:N	48:DP:130:PHE:HD2	2.04	0.56
49:DQ:109:VAL:CG1	49:DQ:110:THR:N	2.68	0.56
52:DT:28:VAL:O	52:DT:29:ARG:CD	2.49	0.56
58:DZ:24:LEU:CD1	58:DZ:41:LEU:HA	2.35	0.56
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CG1	2.35	0.56
1:AA:56:U:H2'	1:AA:57:G:H8	1.68	0.56
1:AA:165:C:O2'	1:AA:166:G:H5'	2.06	0.56
1:AA:202:U:O2'	1:AA:203:U:P	2.63	0.56
1:AA:342:C:H2'	1:AA:343:U:O4'	2.05	0.56
1:AA:404:U:C5'	4:AD:122:ARG:HD3	2.35	0.56
1:AA:581:G:O6	1:AA:758:G:N7	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:714:G:H2'	1:AA:715:A:C8	2.40	0.56
1:AA:1054:C:C4	24:AY:34:G:H1'	2.40	0.56
1:AA:1151:A:H1'	10:AJ:39:PRO:HB2	1.86	0.56
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.20	0.56
1:AA:1442(A):G:H5''	52:BT:118:ARG:HH12	1.70	0.56
2:AB:130:ARG:HE	2:AB:131:PRO:HD2	1.71	0.56
3:AC:118:GLN:O	3:AC:121:ALA:HB3	2.05	0.56
3:AC:142:MET:C	3:AC:144:SER:N	2.63	0.56
4:AD:119:GLN:O	4:AD:123:HIS:HD2	1.88	0.56
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.88	0.56
5:AE:105:VAL:H	5:AE:106:PRO:CD	2.17	0.56
10:AJ:97:GLU:HB3	10:AJ:99:LYS:HE2	1.86	0.56
13:AM:118:ALA:HB3	22:AV:29:G:H5''	1.88	0.56
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	1.87	0.56
19:AS:9:VAL:O	19:AS:11:VAL:N	2.39	0.56
25:AZ:228:VAL:HG21	25:AZ:298:VAL:O	2.06	0.56
25:AZ:381:GLU:O	25:AZ:382:GLU:O	2.23	0.56
26:B0:47:PRO:HB3	26:B0:51:VAL:O	2.04	0.56
33:B7:11:LYS:HZ3	36:BA:686:G:H5''	1.70	0.56
33:B7:19:ARG:NH2	36:BA:124:G:C5	2.73	0.56
35:B9:11:CYS:SG	35:B9:12:ASP:N	2.77	0.56
35:B9:17:ILE:HG21	35:B9:19:ARG:HH21	1.70	0.56
36:BA:302:C:O2'	36:BA:303:U:H5'	2.04	0.56
36:BA:320:A:C5	41:BF:136:THR:HG21	2.41	0.56
36:BA:321:G:H1'	41:BF:168:ARG:NH2	2.19	0.56
36:BA:448:U:H1'	41:BF:84:VAL:CG1	2.34	0.56
36:BA:587:C:C5	48:BP:33:ARG:HG2	2.40	0.56
36:BA:675:A:H4'	41:BF:67:GLN:OE1	2.05	0.56
36:BA:733:G:N7	36:BA:761:A:C6	2.74	0.56
36:BA:827:U:H5'	36:BA:828:U:O5'	2.06	0.56
36:BA:958:U:O4	49:BQ:17:LEU:HD21	2.04	0.56
36:BA:1268:A:H2'	36:BA:1269:A:H8	1.70	0.56
36:BA:1574:C:H2'	36:BA:1575:C:C6	2.40	0.56
36:BA:2027:G:O2'	36:BA:2028:U:H5'	2.04	0.56
36:BA:2110:G:N2	36:BA:2178:C:H5	2.03	0.56
36:BA:2123:G:O2'	36:BA:2124:G:H5'	2.06	0.56
36:BA:2145:C:H2'	36:BA:2147:G:H22	1.70	0.56
36:BA:2188:C:H2'	36:BA:2189:U:N1	2.19	0.56
36:BA:2386:C:H2'	36:BA:2387:U:C6	2.40	0.56
36:BA:2496:C:O2'	36:BA:2497:A:H5'	2.05	0.56
36:BA:2760:C:C3'	36:BA:2761:G:H5''	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2837:G:H2'	36:BA:2838:G:C8	2.34	0.56
39:BD:68:LYS:HB2	39:BD:70:TRP:CE2	2.41	0.56
41:BF:25:PRO:HB3	41:BF:119:ARG:CB	2.35	0.56
41:BF:206:ILE:HG22	41:BF:207:GLY:N	2.13	0.56
42:BG:111:LEU:HB2	42:BG:112:PRO:HD3	1.87	0.56
42:BG:125:PHE:CZ	42:BG:173:LEU:HD12	2.39	0.56
43:BH:12:PRO:HA	43:BH:48:GLY:HA2	1.86	0.56
43:BH:26:VAL:CG1	43:BH:76:VAL:HA	2.36	0.56
43:BH:87:LEU:CD2	43:BH:164:TYR:HA	2.35	0.56
43:BH:127:GLU:OE1	43:BH:128:PRO:HD3	2.05	0.56
46:BN:36:GLY:H	46:BN:49:GLY:HA3	1.69	0.56
46:BN:134:ARG:N	46:BN:135:PRO:HD3	2.21	0.56
48:BP:59:LEU:C	48:BP:61:ARG:H	2.14	0.56
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.87	0.56
48:BP:143:GLY:C	48:BP:145:PRO:HD3	2.30	0.56
49:BQ:70:PRO:CA	49:BQ:94:VAL:O	2.52	0.56
50:BR:29:LEU:O	50:BR:30:THR:HB	2.05	0.56
52:BT:85:LYS:HB3	52:BT:85:LYS:HZ2	1.66	0.56
53:BU:49:HIS:O	53:BU:53:ARG:N	2.30	0.56
53:BU:55:ARG:HG2	53:BU:58:ARG:CZ	2.35	0.56
53:BU:92:ARG:O	53:BU:94:ASN:N	2.38	0.56
56:BX:33:LYS:HD3	56:BX:33:LYS:N	2.20	0.56
57:BY:74:PRO:HG2	57:BY:81:LYS:O	2.04	0.56
58:BZ:146:ILE:HA	58:BZ:174:VAL:HG11	1.86	0.56
1:CA:286:G:O2'	1:CA:287:U:H5'	2.05	0.56
1:CA:404:U:C5'	4:CD:122:ARG:HD3	2.35	0.56
1:CA:522:C:N4	1:CA:528:C:H42	2.03	0.56
1:CA:563:A:N7	1:CA:567:G:H1'	2.21	0.56
1:CA:564:C:H2'	1:CA:565:U:O4'	2.05	0.56
1:CA:925:G:O5'	1:CA:925:G:H8	1.87	0.56
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.71	0.56
1:CA:1047:G:H5''	14:CN:4:LYS:CE	2.26	0.56
1:CA:1125:U:N3	10:CJ:5:ARG:NH2	2.52	0.56
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	2.19	0.56
1:CA:1271:G:H5'	1:CA:1314:C:H5''	1.85	0.56
1:CA:1319:A:H5'	1:CA:1320:C:OP1	2.06	0.56
2:CB:130:ARG:NH1	2:CB:134:GLU:HG3	2.21	0.56
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.30	0.56
3:CC:113:ALA:O	3:CC:114:PRO:C	2.48	0.56
3:CC:113:ALA:HB3	3:CC:185:GLY:H	1.70	0.56
6:CF:7:ASN:OD1	6:CF:62:TRP:HD1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:26:ALA:O	10:CJ:85:LEU:HD21	2.04	0.56
11:CK:23:ALA:CB	11:CK:28:THR:HG23	2.35	0.56
12:CL:89:ARG:HD2	12:CL:91:LYS:HB2	1.87	0.56
17:CQ:56:VAL:HG21	17:CQ:81:ARG:HG3	1.87	0.56
20:CT:96:GLY:O	20:CT:97:ALA:HB3	2.04	0.56
22:CW:38:A:H2'	22:CW:39:U:O4'	2.06	0.56
22:CW:58:A:H2'	22:CW:61:C:H41	1.69	0.56
24:CY:9:A:H2	24:CY:45:G:C6	2.23	0.56
26:D0:55:ARG:NH1	36:DA:2384:G:OP2	2.39	0.56
28:D2:57:ILE:O	28:D2:58:ALA:C	2.48	0.56
29:D3:15:TYR:HB3	29:D3:19:GLN:NE2	2.20	0.56
29:D3:49:LYS:O	29:D3:49:LYS:HG2	2.05	0.56
32:D6:5:VAL:HG21	36:DA:2283:C:H5'	1.87	0.56
33:D7:11:LYS:NZ	36:DA:686:G:H5''	2.20	0.56
33:D7:31:LEU:O	33:D7:33:ARG:N	2.39	0.56
34:D8:4:MET:HE3	34:D8:61:LEU:HD21	1.87	0.56
36:DA:7:G:H21	36:DA:8:A:H1'	1.70	0.56
36:DA:36:G:H4'	36:DA:451:C:C2	2.41	0.56
36:DA:89:G:H3'	36:DA:90:U:C5'	2.32	0.56
36:DA:135:G:O2'	36:DA:136:G:H5'	2.05	0.56
36:DA:733:G:N7	36:DA:761:A:C6	2.73	0.56
36:DA:817:C:H4'	36:DA:932:G:C6	2.40	0.56
36:DA:1127:A:O2'	36:DA:2517:C:H4'	2.05	0.56
36:DA:1278:A:O2'	36:DA:1279:G:H5'	2.05	0.56
36:DA:1440:G:H2'	36:DA:1441:G:H8	1.70	0.56
36:DA:1470:G:H3'	36:DA:1519:G:O6	2.05	0.56
36:DA:1833:U:O2	36:DA:1969:A:H2	1.88	0.56
36:DA:2068:U:C2	36:DA:2430:A:H2	2.23	0.56
36:DA:2189:U:H2'	36:DA:2190:G:O4'	2.04	0.56
36:DA:2189:U:H3'	36:DA:2190:G:H5''	1.87	0.56
36:DA:2206:G:H5''	36:DA:2206:G:N3	2.20	0.56
36:DA:2233:U:H2'	36:DA:2234:G:H8	1.69	0.56
36:DA:2282:G:H2'	36:DA:2425:A:H61	1.70	0.56
36:DA:2312:U:H2'	36:DA:2313:C:H5'	1.87	0.56
36:DA:2422:A:C8	36:DA:2422:A:H3'	2.40	0.56
36:DA:2636:U:H4'	40:DE:80:GLU:CD	2.30	0.56
36:DA:2656:U:H2'	36:DA:2657:A:H5''	1.87	0.56
36:DA:2882:A:H5''	50:DR:98:LEU:HD21	1.87	0.56
37:DB:69:G:H2'	37:DB:69:G:N3	2.21	0.56
38:DC:116:THR:O	38:DC:120:MET:HE2	2.04	0.56
38:DC:139:ASN:OD1	38:DC:140:PRO:HD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:145:VAL:HB	39:DD:155:LEU:HB2	1.87	0.56
39:DD:172:TYR:CD1	39:DD:186:HIS:HA	2.40	0.56
40:DE:54:GLN:O	40:DE:75:VAL:HG23	2.04	0.56
40:DE:82:ARG:O	40:DE:83:ASP:C	2.46	0.56
41:DF:57:VAL:CG1	41:DF:58:ALA:N	2.67	0.56
42:DG:7:LEU:HB3	42:DG:100:TRP:CE3	2.41	0.56
42:DG:34:LEU:HD12	42:DG:34:LEU:O	2.05	0.56
46:DN:35:ARG:O	46:DN:36:GLY:C	2.48	0.56
47:DO:23:ARG:HG3	47:DO:24:VAL:H	1.68	0.56
51:DS:24:LEU:CB	51:DS:85:VAL:HG12	2.35	0.56
51:DS:56:LEU:C	51:DS:58:LEU:N	2.59	0.56
54:DV:3:ALA:CB	54:DV:14:VAL:HG23	2.34	0.56
54:DV:66:ARG:HG2	54:DV:88:ARG:HB3	1.86	0.56
55:DW:59:VAL:O	55:DW:60:ASN:C	2.46	0.56
58:DZ:18:LEU:N	58:DZ:18:LEU:CD1	2.68	0.56
58:DZ:23:LYS:HD3	58:DZ:38:TYR:CE1	2.40	0.56
58:DZ:81:ARG:HB2	58:DZ:81:ARG:CZ	2.34	0.56
58:DZ:168:GLU:O	58:DZ:168:GLU:CG	2.54	0.56
1:AA:57:G:N1	1:AA:356:A:C6	2.74	0.56
1:AA:377:G:OP1	16:AP:5:ARG:HD3	2.05	0.56
1:AA:512:U:O5'	4:AD:43:HIS:HE1	1.88	0.56
1:AA:769:G:C2'	1:AA:770:C:H5'	2.35	0.56
1:AA:960:U:O2	1:AA:960:U:H2'	2.05	0.56
1:AA:1047:G:H5''	14:AN:4:LYS:CE	2.25	0.56
1:AA:1238:A:OP1	1:AA:1335:C:H1'	2.05	0.56
1:AA:1399:C:C2	1:AA:1502:A:N6	2.73	0.56
1:AA:1401:G:H2'	1:AA:1402:C:H5'	1.85	0.56
1:AA:1519:A:H3'	1:AA:1520:G:C5'	2.35	0.56
2:AB:77:ALA:CA	2:AB:80:ILE:HD13	2.32	0.56
2:AB:105:PHE:O	2:AB:106:LYS:C	2.48	0.56
9:AI:87:GLN:C	9:AI:89:ASN:H	2.13	0.56
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	1.87	0.56
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.88	0.56
13:AM:89:GLY:O	13:AM:90:LEU:O	2.21	0.56
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.39	0.56
20:AT:86:ARG:O	20:AT:90:GLN:HG2	2.05	0.56
25:AZ:79:HIS:CD2	25:AZ:80:VAL:N	2.74	0.56
25:AZ:226:GLU:CG	25:AZ:240:GLY:HA2	2.35	0.56
26:B0:50:ASN:ND2	26:B0:63:VAL:HG21	2.19	0.56
28:B2:57:ILE:O	28:B2:61:LEU:N	2.36	0.56
35:B9:11:CYS:SG	35:B9:14:CYS:SG	3.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:116:C:O2'	36:BA:126:A:N3	2.39	0.56
36:BA:197:A:N6	36:BA:2430:A:H2'	2.20	0.56
36:BA:978:G:H1	36:BA:985:C:N4	2.03	0.56
36:BA:1049:C:O2	36:BA:1113:U:H4'	2.04	0.56
36:BA:1675:C:O2	40:BE:129:HIS:HA	2.06	0.56
36:BA:1865:G:H5'	36:BA:1866:C:P	2.45	0.56
36:BA:1957:C:O2'	36:BA:1985:G:H1'	2.04	0.56
36:BA:2127:G:H2'	36:BA:2128:C:C6	2.41	0.56
36:BA:2243:U:H2'	36:BA:2244:U:C5	2.39	0.56
36:BA:2787:C:H1'	40:BE:61:ARG:HG3	1.87	0.56
37:BB:48:A:OP1	51:BS:93:LYS:HB3	2.05	0.56
37:BB:101:G:H2'	37:BB:102:A:O4'	2.04	0.56
41:BF:108:LYS:O	41:BF:112:MET:HE3	2.05	0.56
42:BG:63:ILE:C	42:BG:65:GLY:H	2.13	0.56
42:BG:106:LEU:HD12	42:BG:110:ALA:HB3	1.88	0.56
45:BK:95:UNK:O	45:BK:97:UNK:N	2.38	0.56
48:BP:71:VAL:HG13	48:BP:72:PRO:HD3	1.86	0.56
49:BQ:140:ALA:O	49:BQ:141:GLN:HG2	2.05	0.56
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.05	0.56
52:BT:38:ASN:ND2	52:BT:40:THR:OG1	2.38	0.56
52:BT:78:LEU:O	52:BT:79:HIS:HD2	1.88	0.56
53:BU:17:ILE:HA	53:BU:20:LEU:HD23	1.88	0.56
53:BU:52:ARG:HA	53:BU:55:ARG:NH1	2.20	0.56
1:CA:71:C:H2'	1:CA:72:C:C6	2.39	0.56
1:CA:115:G:H4'	1:CA:116:A:O5'	2.05	0.56
1:CA:184:G:H2'	1:CA:185:A:H8	1.71	0.56
1:CA:751:U:C4'	15:CO:24:SER:HB2	2.34	0.56
1:CA:1499:A:C2'	1:CA:1500:A:H5'	2.35	0.56
2:CB:11:LEU:O	2:CB:14:GLY:N	2.39	0.56
3:CC:77:ILE:HG23	3:CC:84:ILE:CG2	2.35	0.56
5:CE:102:ALA:HB2	5:CE:120:THR:HG21	1.87	0.56
13:CM:14:ARG:N	13:CM:44:ARG:HH11	2.03	0.56
16:CP:41:PRO:O	16:CP:43:LYS:HG3	2.05	0.56
27:D1:64:ALA:O	27:D1:67:ILE:HG13	2.05	0.56
30:D4:8:LYS:O	30:D4:9:LEU:CB	2.48	0.56
36:DA:177:G:H3'	36:DA:178:G:H8	1.70	0.56
36:DA:620:G:H4'	36:DA:621:A:OP1	2.04	0.56
36:DA:797:C:OP2	41:DF:62:ARG:HG3	2.05	0.56
36:DA:811:U:O2	36:DA:1251:C:C5	2.58	0.56
36:DA:828:U:H2'	36:DA:829:A:C8	2.40	0.56
36:DA:1528(A):A:H62	36:DA:1541:G:N2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2290:G:H22	36:DA:2343:C:H1'	1.69	0.56
36:DA:2680:C:O2'	36:DA:2681:C:H5'	2.05	0.56
36:DA:2840:C:C5'	50:DR:53:HIS:CD2	2.82	0.56
38:DC:41:VAL:N	38:DC:176:GLY:O	2.38	0.56
39:DD:77:ALA:CB	39:DD:97:TYR:HA	2.35	0.56
39:DD:245:PRO:O	39:DD:246:PRO:C	2.48	0.56
41:DF:31:HIS:CG	48:DP:13:ASN:HB2	2.40	0.56
42:DG:88:ILE:CG2	42:DG:89:GLY:N	2.68	0.56
43:DH:85:LYS:HZ3	43:DH:133:VAL:N	1.90	0.56
47:DO:47:ILE:CG2	47:DO:48:PRO:HD2	2.28	0.56
50:DR:10:LEU:HD22	50:DR:17:ARG:HE	1.70	0.56
52:DT:6:LEU:HA	52:DT:9:LEU:HD12	1.87	0.56
1:AA:472:A:O2'	16:AP:81:ARG:HG3	2.06	0.56
1:AA:953:G:C2	1:AA:954:G:H1'	2.40	0.56
3:AC:106:VAL:O	3:AC:107:GLN:C	2.48	0.56
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.05	0.56
8:AH:86:ILE:HG13	8:AH:133:LEU:HD23	1.88	0.56
8:AH:109:ILE:CG1	8:AH:110:ALA:H	2.11	0.56
11:AK:21:ILE:HD12	11:AK:21:ILE:N	2.21	0.56
12:AL:89:ARG:HD2	12:AL:91:LYS:HB2	1.88	0.56
14:AN:7:ILE:CG1	14:AN:8:GLU:H	2.19	0.56
14:AN:8:GLU:C	14:AN:10:ALA:H	2.13	0.56
20:AT:57:ARG:HH11	20:AT:103:GLY:N	2.02	0.56
21:AU:5:ASP:O	21:AU:7:ARG:N	2.39	0.56
26:B0:3:HIS:HB2	36:BA:2494:G:OP1	2.05	0.56
29:B3:4:LEU:HG	29:B3:39:ASP:HB2	1.87	0.56
32:B6:42:TRP:C	32:B6:44:ARG:N	2.61	0.56
36:BA:343:C:C2'	36:BA:344:G:O5'	2.54	0.56
36:BA:678:C:H2'	36:BA:679:C:C6	2.41	0.56
36:BA:723:G:C2	36:BA:724:U:C2	2.94	0.56
36:BA:733:G:O5'	36:BA:733:G:C8	2.57	0.56
36:BA:736:C:O2'	36:BA:737:C:H5'	2.06	0.56
36:BA:851:U:O2'	36:BA:852:G:H5'	2.05	0.56
36:BA:2138:C:O2'	36:BA:2139:C:H5'	2.06	0.56
36:BA:2820:A:H4'	50:BR:5:LYS:HE2	1.87	0.56
37:BB:8:U:H2'	37:BB:9:G:C8	2.40	0.56
39:BD:28:GLU:N	39:BD:28:GLU:OE2	2.39	0.56
40:BE:95:ILE:HD13	40:BE:95:ILE:N	2.20	0.56
40:BE:201:THR:HG23	40:BE:203:LYS:H	1.70	0.56
42:BG:44:GLY:O	42:BG:46:ALA:N	2.38	0.56
42:BG:117:PHE:CD2	42:BG:118:ARG:N	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:122:PRO:HD3	42:BG:181:ARG:HB3	1.88	0.56
44:BJ:45:UNK:O	44:BJ:49:UNK:HA	2.06	0.56
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.53	0.56
51:BS:96:GLY:O	51:BS:98:VAL:N	2.38	0.56
1:CA:154:C:H2'	1:CA:155:C:C6	2.40	0.56
1:CA:189(H):G:O2'	1:CA:189(I):G:H8	1.87	0.56
1:CA:1030:C:C2'	1:CA:1030(A):G:H5'	2.36	0.56
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.34	0.56
1:CA:1151:A:H1'	10:CJ:39:PRO:HB2	1.87	0.56
2:CB:89:GLY:O	2:CB:90:MET:HG2	2.06	0.56
2:CB:147:LYS:O	2:CB:147:LYS:HG2	2.05	0.56
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.20	0.56
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.05	0.56
7:CG:119:ARG:O	7:CG:120:ILE:C	2.48	0.56
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.87	0.56
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.35	0.56
14:CN:7:ILE:CG1	14:CN:8:GLU:H	2.19	0.56
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.69	0.56
25:CZ:311:THR:HG1	25:CZ:313:HIS:HE2	1.49	0.56
25:CZ:322:VAL:HG11	25:CZ:364:PRO:HA	1.88	0.56
28:D2:47:ASN:O	28:D2:50:ILE:CD1	2.53	0.56
34:D8:61:LEU:C	34:D8:63:PRO:HD2	2.29	0.56
36:DA:584:C:C2'	36:DA:585:G:H5'	2.36	0.56
36:DA:860:U:C2'	36:DA:861:A:H5'	2.34	0.56
36:DA:1049:C:O2	36:DA:1113:U:H4'	2.05	0.56
36:DA:1252:G:O2'	36:DA:1253:A:H5''	2.05	0.56
36:DA:1409:C:O5'	36:DA:1409:C:H6	1.89	0.56
36:DA:2038:G:H2'	36:DA:2039:C:O4'	2.06	0.56
36:DA:2475:C:H42	36:DA:2529:G:N2	2.03	0.56
36:DA:2880:C:H3'	36:DA:2880:C:C6	2.40	0.56
39:DD:261:LYS:HZ3	39:DD:263:ARG:HB2	1.68	0.56
40:DE:135:HIS:O	40:DE:136:ARG:HG3	2.05	0.56
41:DF:117:ARG:HG2	41:DF:192:LEU:CD1	2.35	0.56
41:DF:168:ARG:O	41:DF:169:ASN:C	2.47	0.56
47:DO:87:ILE:HD13	47:DO:93:PRO:HA	1.86	0.56
48:DP:36:LYS:HD2	48:DP:41:ARG:HB3	1.88	0.56
1:AA:53:A:N6	1:AA:54:C:C4	2.74	0.56
1:AA:524:G:C6	1:AA:525:C:N4	2.74	0.56
1:AA:599:C:H4'	8:AH:130:GLY:HA3	1.87	0.56
1:AA:749:C:O2'	1:AA:750:G:H5'	2.06	0.56
1:AA:943:U:C2'	1:AA:944:G:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:955:U:O2'	1:AA:956:U:H5'	2.06	0.56
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.70	0.56
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.70	0.56
1:AA:1507:A:H61	1:AA:1528:U:H3	1.53	0.56
2:AB:162:ILE:HG22	2:AB:183:PRO:O	2.05	0.56
3:AC:113:ALA:CB	3:AC:185:GLY:H	2.18	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.21	0.56
13:AM:120:LYS:HA	13:AM:120:LYS:CE	2.36	0.56
16:AP:8:ARG:HH11	16:AP:8:ARG:HG2	1.70	0.56
20:AT:31:SER:HA	20:AT:34:LYS:HD2	1.87	0.56
20:AT:89:ARG:HH21	20:AT:104:LEU:HD21	1.70	0.56
24:AY:75:C:C6	25:AZ:231:ILE:HA	2.40	0.56
28:B2:43:GLN:O	28:B2:44:LEU:CB	2.53	0.56
32:B6:28:ARG:O	32:B6:29:ASN:C	2.49	0.56
32:B6:36:LEU:HD12	32:B6:50:ARG:HH22	1.65	0.56
36:BA:295:G:H5'	57:BY:3:VAL:HG22	1.88	0.56
36:BA:298:G:H5'	36:BA:299:A:OP1	2.05	0.56
36:BA:612:C:H2'	36:BA:613:G:H5''	1.81	0.56
36:BA:1440:G:H22	36:BA:1552:G:H1'	1.71	0.56
36:BA:1536:C:H2'	36:BA:1537:G:C4'	2.35	0.56
36:BA:2393:A:H2'	36:BA:2394:C:H5'	1.88	0.56
36:BA:2513:G:C2	36:BA:2514:U:C2	2.94	0.56
36:BA:2680:C:O2'	36:BA:2681:C:H5'	2.06	0.56
39:BD:44:ASN:OD1	39:BD:44:ASN:N	2.38	0.56
40:BE:199:ARG:HG2	40:BE:200:GLU:N	2.11	0.56
41:BF:24:LEU:CB	41:BF:25:PRO:CD	2.78	0.56
41:BF:170:LEU:O	41:BF:173:VAL:HB	2.06	0.56
49:BQ:86:GLY:O	49:BQ:87:LYS:HB2	2.05	0.56
50:BR:2:ARG:HD2	50:BR:2:ARG:C	2.31	0.56
50:BR:54:LEU:HB3	50:BR:62:ALA:HB1	1.86	0.56
51:BS:106:ARG:NH1	51:BS:107:GLU:N	2.40	0.56
52:BT:107:ASP:OD1	52:BT:109:GLU:HB2	2.05	0.56
54:BV:71:LEU:HD21	54:BV:84:LYS:HE2	1.87	0.56
57:BY:86:ARG:HD2	57:BY:88:LYS:HE3	1.88	0.56
58:BZ:61:LEU:C	58:BZ:63:ASP:H	2.13	0.56
1:CA:506:G:H2'	1:CA:507:C:H6	1.70	0.56
1:CA:972:C:O3'	10:CJ:57:LYS:HG3	2.06	0.56
1:CA:1044:A:H2'	1:CA:1045:C:O4'	2.05	0.56
1:CA:1249:C:H5''	9:CI:70:LYS:HZ3	1.69	0.56
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.41	0.56
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:87:GLN:C	9:CI:89:ASN:H	2.13	0.56
18:CR:37:VAL:O	18:CR:41:LYS:N	2.30	0.56
22:CW:50:U:O2'	22:CW:51:U:H5'	2.06	0.56
27:D1:50:ARG:HG2	27:D1:59:THR:HG22	1.88	0.56
31:D5:52:TYR:CD1	31:D5:52:TYR:O	2.59	0.56
33:D7:40:TRP:CE3	36:DA:459:U:H4'	2.40	0.56
36:DA:464:U:C2'	36:DA:465:G:H5'	2.35	0.56
36:DA:584:C:H2'	36:DA:585:G:C5'	2.34	0.56
36:DA:611:C:H2'	36:DA:612:C:C6	2.36	0.56
36:DA:711:G:H1	36:DA:720:C:N4	2.04	0.56
36:DA:1390:U:C2'	36:DA:1391:U:H5'	2.36	0.56
36:DA:1902:C:C1'	39:DD:244:ARG:HG3	2.36	0.56
36:DA:2303:G:C5'	42:DG:126:ASP:HB2	2.35	0.56
36:DA:2558:C:H2'	36:DA:2559:C:H6	1.71	0.56
36:DA:2636:U:H4'	40:DE:80:GLU:OE1	2.06	0.56
39:DD:39:LYS:HB2	39:DD:62:TYR:HB2	1.87	0.56
39:DD:70:TRP:HZ3	39:DD:146:GLU:CD	2.14	0.56
39:DD:229:VAL:HG23	39:DD:230:ASP:N	2.20	0.56
40:DE:107:THR:C	40:DE:190:GLY:HA2	2.31	0.56
41:DF:51:THR:HG21	41:DF:91:GLY:CA	2.32	0.56
42:DG:46:ALA:HB3	42:DG:88:ILE:HG12	1.88	0.56
52:DT:77:PRO:O	52:DT:78:LEU:CB	2.54	0.56
57:DY:98:VAL:O	57:DY:99:CYS:HB2	2.05	0.56
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.40	0.56
1:AA:1054:C:O2	1:AA:1054:C:C3'	2.53	0.56
1:AA:1281:U:H3'	1:AA:1282:C:C6	2.40	0.56
2:AB:154:LEU:O	2:AB:156:LYS:HG3	2.06	0.56
2:AB:189:ASP:O	2:AB:191:ASP:N	2.39	0.56
3:AC:165:THR:O	3:AC:165:THR:HG23	2.05	0.56
4:AD:173:TRP:HB3	4:AD:187:ARG:HH22	1.68	0.56
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.40	0.56
7:AG:42:ILE:CG2	7:AG:117:ALA:HA	2.31	0.56
10:AJ:26:ALA:O	10:AJ:85:LEU:HD21	2.06	0.56
20:AT:74:LYS:HD3	20:AT:74:LYS:N	2.21	0.56
25:AZ:220:PRO:O	25:AZ:245:GLY:HA3	2.06	0.56
26:B0:25:ARG:HH21	26:B0:35:ASN:HD22	1.52	0.56
27:B1:25:LYS:CD	36:BA:388:G:H4'	2.32	0.56
28:B2:3:LEU:CD2	28:B2:3:LEU:C	2.78	0.56
29:B3:7:LYS:HB3	29:B3:55:ARG:HB2	1.88	0.56
31:B5:12:SER:HB3	36:BA:2020:A:H5'	1.87	0.56
31:B5:40:LYS:HZ3	31:B5:45:VAL:CA	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:50:LEU:CD1	34:B8:51:ALA:H	2.08	0.56
36:BA:477:A:H2'	36:BA:478:A:C8	2.41	0.56
36:BA:747:U:C5	36:BA:2613:U:C5	2.94	0.56
36:BA:880:G:H2'	36:BA:881:G:H8	1.71	0.56
36:BA:1020:A:C2	36:BA:1141:U:H1'	2.40	0.56
36:BA:1252:G:O2'	36:BA:1253:A:H5''	2.04	0.56
36:BA:1342:A:OP2	36:BA:1602:U:O4	2.24	0.56
36:BA:2584:U:H2'	36:BA:2585:U:H5'	1.87	0.56
36:BA:2720:U:H2'	36:BA:2720:U:O2	2.04	0.56
37:BB:44:G:O2'	37:BB:45:A:H5''	2.04	0.56
39:BD:35:LYS:HB3	39:BD:35:LYS:HZ2	1.71	0.56
41:BF:60:SER:O	41:BF:77:ASP:HB2	2.06	0.56
46:BN:6:PRO:O	46:BN:7:LYS:O	2.23	0.56
47:BO:111:PHE:HB3	47:BO:114:ILE:CD1	2.30	0.56
48:BP:23:PRO:HA	48:BP:29:LYS:O	2.06	0.56
48:BP:91:PHE:N	48:BP:91:PHE:CD1	2.73	0.56
49:BQ:10:ARG:HB2	49:BQ:10:ARG:HH11	1.70	0.56
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CG	2.36	0.56
52:BT:28:VAL:HG11	52:BT:46:GLU:OE1	2.05	0.56
52:BT:32:TYR:N	52:BT:32:TYR:HD2	2.03	0.56
52:BT:58:ASN:O	52:BT:60:THR:HG23	2.06	0.56
53:BU:94:ASN:C	53:BU:96:ALA:H	2.12	0.56
55:BW:42:ARG:O	55:BW:42:ARG:HG2	2.06	0.56
58:BZ:153:SER:N	58:BZ:167:PRO:CB	2.65	0.56
1:CA:512:U:O5'	4:CD:43:HIS:CE1	2.59	0.56
1:CA:811:C:H4'	1:CA:900:A:H62	1.68	0.56
1:CA:991:U:H2'	1:CA:991:U:O2	2.04	0.56
1:CA:1190:G:P	3:CC:5:ILE:HG23	2.46	0.56
1:CA:1269:A:H2'	1:CA:1270:C:H5'	1.87	0.56
1:CA:1433:A:H2'	1:CA:1434:A:C8	2.41	0.56
1:CA:1440:C:C2'	1:CA:1441:G:H5'	2.35	0.56
1:CA:1447:A:N3	1:CA:1447:A:H2'	2.21	0.56
5:CE:20:GLN:HE22	5:CE:25:ARG:NH2	2.04	0.56
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.88	0.56
6:CF:33:TYR:CB	6:CF:75:LEU:HD13	2.36	0.56
7:CG:31:MET:CG	7:CG:32:ARG:N	2.68	0.56
7:CG:104:LEU:O	7:CG:107:ALA:HB3	2.06	0.56
8:CH:20:TYR:HA	8:CH:65:TYR:HE2	1.71	0.56
9:CI:110:GLU:HG2	9:CI:113:LYS:HZ1	1.70	0.56
15:CO:3:ILE:HG23	15:CO:38:ARG:NH2	2.20	0.56
26:D0:22:GLY:C	26:D0:38:VAL:HG13	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:52:HIS:CD2	29:D3:52:HIS:H	2.24	0.56
30:D4:42:PHE:O	30:D4:42:PHE:CD2	2.58	0.56
31:D5:6:VAL:O	31:D5:6:VAL:HG13	2.06	0.56
34:D8:59:LYS:O	34:D8:60:LEU:HD23	2.05	0.56
36:DA:372:G:O2'	36:DA:373:U:OP2	2.24	0.56
36:DA:391:G:O5'	36:DA:391:G:H8	1.88	0.56
36:DA:481:G:H4'	36:DA:481:G:OP1	2.04	0.56
36:DA:823:G:N2	36:DA:2358:G:C8	2.74	0.56
36:DA:2110:G:O2'	36:DA:2111:C:OP1	2.23	0.56
36:DA:2386:C:H2'	36:DA:2387:U:C6	2.41	0.56
36:DA:2639:A:H2'	36:DA:2640:G:O4'	2.06	0.56
38:DC:140:PRO:C	38:DC:142:ALA:N	2.64	0.56
41:DF:168:ARG:HG2	41:DF:169:ASN:H	1.70	0.56
41:DF:185:ASP:HA	41:DF:188:ARG:HG2	1.87	0.56
42:DG:7:LEU:HB3	42:DG:100:TRP:HE3	1.69	0.56
42:DG:40:ASN:ND2	42:DG:90:LEU:O	2.38	0.56
42:DG:154:GLY:O	42:DG:155:MET:HB3	2.04	0.56
43:DH:66:GLY:HA2	43:DH:69:ARG:HB3	1.87	0.56
43:DH:83:TYR:HB2	43:DH:135:GLY:N	2.14	0.56
48:DP:88:LEU:HD21	48:DP:95:VAL:HG21	1.86	0.56
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.05	0.56
51:DS:49:VAL:CG1	51:DS:50:SER:H	2.02	0.56
51:DS:66:ALA:HB1	51:DS:99:LYS:HD3	1.88	0.56
52:DT:94:ALA:O	52:DT:96:ARG:N	2.39	0.56
53:DU:28:ARG:HD3	53:DU:38:THR:CG2	2.36	0.56
1:AA:80:G:O2'	1:AA:81:U:H5'	2.05	0.56
1:AA:668:G:H2'	1:AA:669:U:C6	2.41	0.56
1:AA:977:A:O2'	1:AA:978:A:H5'	2.05	0.56
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.05	0.56
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.06	0.56
4:AD:17:VAL:HG21	4:AD:63:LYS:HZ2	1.71	0.56
4:AD:100:ARG:HB3	4:AD:103:ASN:HB3	1.88	0.56
5:AE:145:LYS:O	5:AE:148:VAL:HB	2.06	0.56
8:AH:19:VAL:O	8:AH:20:TYR:C	2.48	0.56
10:AJ:17:ASP:HB2	10:AJ:70:ARG:NH2	2.21	0.56
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	2.21	0.56
18:AR:55:ARG:HG3	18:AR:55:ARG:HH11	1.71	0.56
20:AT:96:GLY:O	20:AT:97:ALA:HB3	2.06	0.56
27:B1:5:CYS:SG	27:B1:62:VAL:HA	2.46	0.56
28:B2:17:SER:HB2	28:B2:20:GLU:HB3	1.88	0.56
33:B7:15:THR:HG22	33:B7:16:HIS:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:61:LEU:CD1	34:B8:62:LEU:HG	2.34	0.56
35:B9:19:ARG:O	35:B9:21:GLY:N	2.37	0.56
36:BA:410:G:N2	36:BA:2407:G:C6	2.74	0.56
36:BA:496:G:H1'	55:BW:61:ASN:ND2	2.20	0.56
36:BA:812:C:H2'	36:BA:813:U:H6	1.70	0.56
36:BA:863:A:H2'	36:BA:864:G:H8	1.68	0.56
36:BA:959:A:O2'	36:BA:960:A:H5'	2.05	0.56
36:BA:1057:A:O2'	36:BA:1058:G:H5'	2.06	0.56
36:BA:1138:G:C2	36:BA:1139:G:H1'	2.41	0.56
36:BA:1390:U:C2'	36:BA:1391:U:H5'	2.36	0.56
36:BA:1798:U:C2	36:BA:1822:G:N2	2.73	0.56
36:BA:1840:G:H1	36:BA:1902:C:H42	1.54	0.56
36:BA:2762:G:H8	36:BA:2762:G:C5'	2.15	0.56
41:BF:132:VAL:HG13	41:BF:133:ASN:N	2.20	0.56
41:BF:185:ASP:HA	41:BF:188:ARG:HG2	1.88	0.56
46:BN:16:ILE:CD1	46:BN:139:GLU:N	2.69	0.56
52:BT:26:ASP:H	52:BT:90:GLN:HA	1.71	0.56
53:BU:92:ARG:HH22	54:BV:10:LYS:HG2	1.71	0.56
53:BU:102:GLU:HB2	53:BU:105:VAL:HB	1.86	0.56
54:BV:4:ILE:HB	54:BV:39:LEU:O	2.05	0.56
55:BW:5:ALA:HB3	55:BW:105:VAL:HB	1.88	0.56
58:BZ:77:ASP:HA	58:BZ:84:GLU:OE1	2.06	0.56
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.06	0.56
1:CA:381:C:H2'	1:CA:382:A:O4'	2.04	0.56
1:CA:920:U:O4'	1:CA:1080:A:N1	2.38	0.56
1:CA:973:G:C6	1:CA:974:A:N6	2.74	0.56
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.35	0.56
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.87	0.56
3:CC:18:TRP:N	3:CC:18:TRP:HE3	2.04	0.56
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.35	0.56
8:CH:23:SER:HB2	8:CH:62:TYR:HA	1.88	0.56
20:CT:26:ASN:ND2	20:CT:26:ASN:H	2.04	0.56
25:CZ:271:GLU:HG2	25:CZ:276:THR:CA	2.35	0.56
25:CZ:290:LEU:O	25:CZ:293:VAL:HG22	2.06	0.56
25:CZ:320:VAL:HG12	25:CZ:321:TYR:N	2.20	0.56
25:CZ:367:ASN:N	25:CZ:367:ASN:ND2	2.51	0.56
27:D1:93:GLU:C	27:D1:94:LEU:HD12	2.31	0.56
28:D2:53:LEU:O	28:D2:56:GLN:HB2	2.05	0.56
29:D3:23:LEU:C	29:D3:25:ALA:N	2.63	0.56
32:D6:6:ARG:C	32:D6:8:LYS:H	2.14	0.56
36:DA:225:A:C2'	36:DA:226:G:H5'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:584:C:OP1	53:DU:6:THR:HB	2.06	0.56
36:DA:996:A:H1'	53:DU:92:ARG:HE	1.70	0.56
36:DA:1396:U:H2'	36:DA:1396:U:O2	2.06	0.56
36:DA:1493:C:H4'	36:DA:1494:A:OP1	2.06	0.56
36:DA:1525:G:H2'	36:DA:1526:G:H8	1.70	0.56
37:DB:72:G:H21	37:DB:104:U:H5	1.52	0.56
38:DC:1:PRO:C	38:DC:3:HIS:H	2.13	0.56
39:DD:76:PRO:O	39:DD:98:VAL:HG23	2.05	0.56
42:DG:104:GLU:OE1	42:DG:104:GLU:HA	2.05	0.56
46:DN:17:ASP:OD2	46:DN:19:GLU:HB3	2.05	0.56
47:DO:91:LEU:HD13	47:DO:111:PHE:CE1	2.40	0.56
49:DQ:5:ARG:O	49:DQ:6:ARG:HG2	2.04	0.56
51:DS:13:ARG:HG2	51:DS:13:ARG:HH11	1.70	0.56
53:DU:27:LEU:O	53:DU:31:SER:HB3	2.06	0.56
53:DU:76:TYR:OH	53:DU:93:LYS:HE3	2.05	0.56
57:DY:8:LYS:H	57:DY:8:LYS:CD	2.00	0.56
57:DY:47:LYS:HA	57:DY:60:PHE:CZ	2.41	0.56
58:DZ:27:VAL:HG22	58:DZ:28:MET:O	2.06	0.56
58:DZ:27:VAL:HG12	58:DZ:85:HIS:HE2	1.71	0.56
1:AA:489:C:H2'	1:AA:490:G:H8	1.70	0.56
1:AA:577:G:H1'	1:AA:816:A:C4	2.40	0.56
1:AA:854:G:H3'	1:AA:871:U:O4	2.06	0.56
1:AA:951:G:C6	1:AA:1231:G:C6	2.93	0.56
1:AA:1286:A:O2'	1:AA:1287:A:H5''	2.06	0.56
1:AA:1363:C:H5'	1:AA:1363(A):A:O5'	2.06	0.56
1:AA:1481:U:C2	1:AA:1482:G:N7	2.74	0.56
2:AB:100:GLY:O	2:AB:102:LEU:N	2.38	0.56
3:AC:94:LEU:O	3:AC:95:THR:OG1	2.17	0.56
3:AC:121:ALA:HA	3:AC:124:ILE:HD12	1.88	0.56
4:AD:2:GLY:O	4:AD:4:TYR:N	2.38	0.56
7:AG:41:ARG:O	7:AG:44:TYR:HB2	2.06	0.56
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.06	0.56
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.21	0.56
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.21	0.56
17:AQ:61:GLU:HA	17:AQ:71:PHE:CE1	2.40	0.56
25:AZ:24:LYS:HA	25:AZ:105:VAL:HG21	1.87	0.56
28:B2:22:GLU:HA	28:B2:64:LEU:HD11	1.88	0.56
31:B5:16:ARG:HH11	31:B5:20:ARG:HH11	1.54	0.56
32:B6:16:CYS:O	32:B6:17:LYS:CG	2.52	0.56
36:BA:282:A:H2'	36:BA:282:A:N3	2.19	0.56
36:BA:306:U:C4	36:BA:307:G:C6	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:320:A:C6	41:BF:136:THR:HG21	2.41	0.56
36:BA:693:C:H42	36:BA:769:G:H1	1.52	0.56
36:BA:777:A:H2'	36:BA:778:G:H8	1.70	0.56
36:BA:817:C:H4'	36:BA:932:G:C6	2.40	0.56
36:BA:1216:G:N2	36:BA:1234:U:H1'	2.20	0.56
36:BA:1665:A:H4'	47:BO:67:LYS:HB2	1.88	0.56
36:BA:1667:G:O2'	36:BA:1991:U:O4	2.24	0.56
36:BA:1758:G:N7	36:BA:2695:C:H4'	2.21	0.56
36:BA:1771:C:C5	36:BA:1772:G:N7	2.74	0.56
36:BA:1775:U:O2'	36:BA:1776:G:H5'	2.06	0.56
36:BA:2110:G:O2'	36:BA:2111:C:OP1	2.22	0.56
36:BA:2284:C:H42	36:BA:2384:G:H1	1.54	0.56
36:BA:2821:A:OP2	40:BE:110:GLY:HA3	2.05	0.56
37:BB:76:G:H5''	58:BZ:15:PRO:HB2	1.88	0.56
42:BG:11:TYR:OH	42:BG:16:ARG:NH2	2.39	0.56
48:BP:88:LEU:HD13	48:BP:100:LEU:HD21	1.87	0.56
49:BQ:67:ARG:N	49:BQ:103:MET:O	2.38	0.56
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.21	0.56
57:BY:95:LYS:HE3	57:BY:100:ALA:HB2	1.88	0.56
1:CA:507:C:H3'	1:CA:508:C:H6	1.70	0.56
1:CA:512:U:O5'	4:CD:43:HIS:HE1	1.89	0.56
2:CB:204:ASN:ND2	2:CB:206:ASP:N	2.49	0.56
3:CC:120:VAL:CG1	3:CC:121:ALA:N	2.69	0.56
9:CI:18:PHE:HB2	9:CI:62:TYR:HB3	1.87	0.56
9:CI:52:ALA:HB3	9:CI:95:LYS:CE	2.28	0.56
9:CI:95:LYS:C	9:CI:98:PRO:HD2	2.30	0.56
10:CJ:14:LYS:O	10:CJ:16:LEU:N	2.37	0.56
17:CQ:10:VAL:CG2	17:CQ:55:ASP:HB2	2.36	0.56
17:CQ:37:LYS:O	17:CQ:38:ARG:HB2	2.05	0.56
18:CR:37:VAL:HG12	18:CR:78:LEU:HB3	1.88	0.56
20:CT:19:SER:O	20:CT:21:LYS:N	2.39	0.56
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.88	0.56
21:CU:10:ARG:O	21:CU:11:GLY:C	2.48	0.56
25:CZ:106:VAL:O	25:CZ:136:ASN:N	2.38	0.56
25:CZ:348:ASP:OD1	25:CZ:348:ASP:O	2.24	0.56
26:D0:77:ARG:C	26:D0:78:TYR:CD1	2.84	0.56
34:D8:8:LYS:HE2	34:D8:11:LYS:HE2	1.88	0.56
36:DA:444:C:H4'	53:DU:2:PRO:HD3	1.87	0.56
36:DA:662:G:H5'	48:DP:18:ARG:C	2.31	0.56
36:DA:1064:C:N4	36:DA:1074:G:H22	2.03	0.56
36:DA:1189:A:C2	36:DA:1190:G:H1'	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1242:A:N6	48:DP:8:PRO:HG3	2.21	0.56
36:DA:1708:C:H2'	36:DA:1709:U:H6	1.70	0.56
36:DA:2127:G:H2'	36:DA:2128:C:C6	2.40	0.56
37:DB:17:C:H2'	37:DB:18:G:O4'	2.06	0.56
42:DG:38:VAL:HG22	42:DG:93:THR:HA	1.87	0.56
43:DH:26:VAL:CG1	43:DH:76:VAL:HA	2.36	0.56
46:DN:1:MET:HE2	46:DN:2:LYS:N	2.20	0.56
50:DR:13:HIS:CE1	50:DR:16:HIS:N	2.69	0.56
50:DR:56:LYS:O	50:DR:58:GLY:N	2.39	0.56
50:DR:61:HIS:HE1	50:DR:65:LEU:HD22	1.70	0.56
55:DW:11:ARG:HH21	55:DW:12:ILE:HA	1.70	0.56
1:AA:80:G:H3'	1:AA:81:U:H5'	1.86	0.56
1:AA:172:A:C8	1:AA:174:C:C4	2.94	0.56
1:AA:245:C:O2'	1:AA:246:A:O5'	2.23	0.56
1:AA:594:G:H2'	1:AA:595:G:H5'	1.88	0.56
1:AA:678:U:H2'	1:AA:679:C:O4'	2.06	0.56
1:AA:1367:C:H5'	10:AJ:60:ARG:NH2	2.21	0.56
1:AA:1499:A:H1'	1:AA:1520:G:C5'	2.36	0.56
2:AB:121:LEU:CD2	2:AB:127:ILE:HD11	2.32	0.56
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.25	0.56
8:AH:6:ILE:O	8:AH:9:MET:N	2.39	0.56
12:AL:55:VAL:HG22	12:AL:56:ALA:N	2.20	0.56
13:AM:45:VAL:O	13:AM:48:LEU:HG	2.06	0.56
22:AV:56:C:C2	42:BG:83:ARG:HD3	2.41	0.56
25:AZ:316:PHE:C	25:AZ:371:THR:HG23	2.31	0.56
25:AZ:320:VAL:HG12	25:AZ:321:TYR:N	2.21	0.56
28:B2:69:ARG:NH2	36:BA:111:A:O3'	2.39	0.56
29:B3:49:LYS:O	29:B3:49:LYS:HG2	2.06	0.56
30:B4:20:ASN:C	30:B4:20:ASN:ND2	2.63	0.56
31:B5:6:VAL:H	36:BA:2056:G:N2	2.04	0.56
34:B8:60:LEU:O	34:B8:63:PRO:HG2	2.05	0.56
36:BA:223:A:C5	36:BA:422:A:H1'	2.41	0.56
36:BA:452:G:OP1	41:BF:57:VAL:HG13	2.05	0.56
36:BA:497:A:H2'	36:BA:498:G:C8	2.41	0.56
36:BA:552:G:H1'	36:BA:1220:A:N1	2.21	0.56
36:BA:1061:U:H4'	36:BA:1070:A:C4'	2.35	0.56
36:BA:1107:G:OP1	44:BJ:58:UNK:CB	2.54	0.56
36:BA:1189:A:C2	36:BA:1190:G:H1'	2.41	0.56
36:BA:1453:U:H5'	50:BR:63:ARG:NE	2.21	0.56
36:BA:1471:A:H3'	36:BA:1472:A:H8	1.71	0.56
36:BA:1491:G:H5'	39:BD:99:ASP:OD1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1622:G:H2'	36:BA:1623:G:H8	1.70	0.56
36:BA:1639:U:C2'	36:BA:1640:C:H5''	2.36	0.56
36:BA:2677:G:H2'	36:BA:2678:C:C6	2.41	0.56
39:BD:247:ALA:HB1	39:BD:252:TRP:O	2.05	0.56
40:BE:82:ARG:O	40:BE:83:ASP:C	2.48	0.56
41:BF:38:ARG:O	41:BF:42:ALA:HB2	2.06	0.56
43:BH:66:GLY:HA2	43:BH:69:ARG:HB3	1.88	0.56
46:BN:35:ARG:O	46:BN:36:GLY:C	2.48	0.56
47:BO:107:ARG:HG3	47:BO:112:MET:HE1	1.88	0.56
50:BR:59:ASP:O	50:BR:60:LEU:C	2.49	0.56
50:BR:107:ASP:O	50:BR:108:GLY:C	2.46	0.56
52:BT:52:ILE:O	52:BT:52:ILE:HG22	2.06	0.56
53:BU:76:TYR:CE2	53:BU:80:ILE:HG13	2.41	0.56
55:BW:36:LEU:HD23	55:BW:36:LEU:N	2.08	0.56
55:BW:72:LYS:HG3	55:BW:108:GLY:HA3	1.87	0.56
1:CA:44:G:C6	1:CA:45:U:C2	2.94	0.56
1:CA:57:G:H2'	1:CA:58:C:C6	2.41	0.56
1:CA:628:G:O2'	1:CA:629:G:H5'	2.06	0.56
1:CA:665:A:H2'	1:CA:725:G:H22	1.69	0.56
1:CA:676:A:H1'	11:CK:115:PRO:HB3	1.87	0.56
1:CA:932:C:H2'	1:CA:933:G:C8	2.41	0.56
1:CA:1054:C:C4	24:CY:34:G:H1'	2.39	0.56
1:CA:1286:A:O2'	1:CA:1287:A:H5''	2.05	0.56
1:CA:1503:A:N9	23:CX:16:A:N6	2.54	0.56
6:CF:32:ASN:C	6:CF:34:GLY:H	2.14	0.56
7:CG:137:LYS:O	7:CG:138:LYS:C	2.47	0.56
10:CJ:24:VAL:O	10:CJ:27:ALA:N	2.39	0.56
12:CL:86:ARG:HB2	12:CL:101:VAL:HG22	1.88	0.56
13:CM:6:GLY:O	13:CM:8:GLU:N	2.39	0.56
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.87	0.56
18:CR:44:LEU:O	18:CR:45:SER:C	2.48	0.56
25:CZ:171:ILE:CG1	25:CZ:201:GLU:HB3	2.34	0.56
36:DA:36:G:O2'	36:DA:37:C:H5'	2.06	0.56
36:DA:185:U:C2	36:DA:212:G:N2	2.74	0.56
36:DA:315:G:H2'	36:DA:316:C:C6	2.41	0.56
36:DA:325:G:H2'	36:DA:326:G:H8	1.71	0.56
36:DA:444:C:H2'	36:DA:445:C:O5'	2.06	0.56
36:DA:471:A:C2'	36:DA:472:A:H5''	2.36	0.56
36:DA:2086:U:OP2	39:DD:263:ARG:NH2	2.36	0.56
36:DA:2508:G:C2	36:DA:2582:G:O6	2.59	0.56
38:DC:70:LYS:HE3	38:DC:70:LYS:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:20:LEU:H	41:DF:24:LEU:CD2	2.19	0.56
43:DH:12:PRO:HD2	43:DH:15:VAL:HG21	1.87	0.56
46:DN:128:HIS:HD2	46:DN:130:HIS:CE1	2.23	0.56
49:DQ:39:PRO:HD3	49:DQ:99:PRO:HG2	1.88	0.56
52:DT:96:ARG:CZ	52:DT:96:ARG:HB2	2.35	0.56
52:DT:98:LYS:CG	52:DT:100:TYR:HE1	2.18	0.56
1:AA:336:C:O2'	1:AA:337:C:H5'	2.05	0.55
1:AA:851:G:O2'	1:AA:852:G:H5'	2.05	0.55
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.05	0.55
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.68	0.55
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.41	0.55
1:AA:1439:C:N4	1:AA:1463:C:H42	2.04	0.55
1:AA:1463:C:C5'	52:BT:115:ARG:HH21	2.20	0.55
2:AB:165:VAL:O	2:AB:167:PRO:HD3	2.07	0.55
7:AG:101:LEU:O	7:AG:104:LEU:HB2	2.06	0.55
24:AY:65:C:C5'	25:AZ:341:GLN:HG2	2.36	0.55
25:AZ:24:LYS:HE3	25:AZ:84:GLY:HA3	1.88	0.55
25:AZ:134:PHE:CE2	25:AZ:136:ASN:HB2	2.41	0.55
25:AZ:152:MET:HE2	25:AZ:156:ASP:HB2	1.88	0.55
25:AZ:356:PRO:O	25:AZ:357:PRO:C	2.50	0.55
26:B0:26:TYR:HB2	26:B0:29:GLN:OE1	2.06	0.55
32:B6:10:LEU:HD12	34:B8:34:TRP:HB2	1.87	0.55
36:BA:926:A:H5'	36:BA:926:A:C8	2.36	0.55
36:BA:990:A:H5'	36:BA:1157:G:H5''	1.87	0.55
36:BA:1064:C:H2'	36:BA:1065:U:H5''	1.88	0.55
36:BA:1144:G:H2'	36:BA:1145:C:H6	1.71	0.55
36:BA:1229:G:H3'	36:BA:1230:C:C6	2.41	0.55
36:BA:1356:G:H2'	36:BA:1357:U:O4'	2.05	0.55
36:BA:1446:C:H42	36:BA:1465:G:H1	1.54	0.55
36:BA:1658:C:C2	36:BA:1659:U:C5	2.94	0.55
36:BA:2277:G:C6	36:BA:2278:A:N7	2.74	0.55
36:BA:2305:A:H1'	42:BG:136:ARG:HG2	1.87	0.55
36:BA:2313:C:H5'	36:BA:2313:C:H6	1.71	0.55
36:BA:2358:G:H21	36:BA:2359:C:H1'	1.69	0.55
36:BA:2376:A:N6	51:BS:92:TYR:CE2	2.74	0.55
36:BA:2856:C:H2'	36:BA:2857:G:H5'	1.88	0.55
40:BE:3:GLY:O	40:BE:4:ILE:HB	2.05	0.55
40:BE:116:VAL:HG21	40:BE:122:PHE:CD2	2.41	0.55
41:BF:7:TYR:OH	41:BF:10:PRO:HG3	2.05	0.55
41:BF:117:ARG:NH2	48:BP:5:ASP:N	2.55	0.55
42:BG:35:GLU:H	42:BG:161:THR:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:12:PRO:HD2	43:BH:15:VAL:HG21	1.87	0.55
49:BQ:96:VAL:O	49:BQ:96:VAL:HG12	2.04	0.55
49:BQ:120:ILE:HG22	49:BQ:124:LYS:HE2	1.88	0.55
51:BS:34:HIS:NE2	51:BS:54:LEU:HB3	2.21	0.55
52:BT:111:ARG:HG2	52:BT:111:ARG:NH1	2.20	0.55
54:BV:18:LEU:HD22	54:BV:96:ILE:HG12	1.87	0.55
58:BZ:139:VAL:HG12	58:BZ:140:ASP:N	2.12	0.55
1:CA:336:C:O2'	1:CA:337:C:H5'	2.05	0.55
1:CA:484:G:H4'	1:CA:485:G:O5'	2.06	0.55
1:CA:859:A:H2	8:CH:19:VAL:HG11	1.70	0.55
5:CE:74:GLY:O	5:CE:116:THR:N	2.39	0.55
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.71	0.55
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.05	0.55
12:CL:86:ARG:CG	12:CL:87:GLY:N	2.68	0.55
12:CL:110:VAL:HG23	12:CL:120:TYR:O	2.06	0.55
13:CM:89:GLY:O	13:CM:90:LEU:O	2.24	0.55
25:CZ:25:THR:HB	62:CZ:501:GDP:O2B	2.06	0.55
25:CZ:222:LEU:HD23	25:CZ:244:ARG:HH21	1.70	0.55
30:D4:20:ASN:C	30:D4:20:ASN:ND2	2.64	0.55
31:D5:41:PRO:C	31:D5:44:THR:HG1	2.13	0.55
32:D6:19:ARG:CG	32:D6:20:ASN:H	1.99	0.55
36:DA:572:A:N1	36:DA:2033:A:C2	2.74	0.55
36:DA:693:C:H42	36:DA:769:G:H1	1.53	0.55
36:DA:973:A:H5'	36:DA:1188:U:C1'	2.36	0.55
36:DA:995:C:O2	53:DU:61:TRP:HZ2	1.88	0.55
36:DA:1193:G:N3	36:DA:1194:A:H1'	2.21	0.55
36:DA:1205:U:C5	41:DF:171:PRO:HA	2.41	0.55
36:DA:1639:U:C2'	36:DA:1640:C:H5''	2.35	0.55
36:DA:1783:A:C2	36:DA:2587:A:C2	2.95	0.55
36:DA:2010:G:O2'	36:DA:2011:U:H5'	2.06	0.55
40:DE:4:ILE:HD11	40:DE:28:ALA:O	2.06	0.55
42:DG:15:VAL:HG12	42:DG:19:LEU:CD1	2.35	0.55
42:DG:173:LEU:HB3	42:DG:178:PHE:CG	2.41	0.55
51:DS:77:ALA:O	51:DS:79:ALA:N	2.38	0.55
1:AA:512:U:O5'	4:AD:43:HIS:CE1	2.59	0.55
1:AA:542:G:OP1	4:AD:10:ARG:NH2	2.38	0.55
1:AA:923:A:C6	1:AA:924:C:C4	2.95	0.55
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.88	0.55
1:AA:1012:U:H2'	1:AA:1013:G:O4'	2.05	0.55
1:AA:1030:C:C2'	1:AA:1030(A):G:H5'	2.36	0.55
1:AA:1125:U:N3	10:AJ:5:ARG:NH2	2.51	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.41	0.55
1:AA:1260:C:H6	1:AA:1260:C:H3'	1.71	0.55
1:AA:1316:G:C3'	1:AA:1317:C:H5''	2.35	0.55
1:AA:1349:A:OP1	9:AI:121:ARG:N	2.39	0.55
2:AB:104:ASN:OD1	2:AB:107:THR:HB	2.07	0.55
3:AC:77:ILE:HG23	3:AC:84:ILE:CG2	2.36	0.55
4:AD:122:ARG:HH11	4:AD:122:ARG:HA	1.71	0.55
4:AD:177:ASP:O	4:AD:181:MET:N	2.39	0.55
5:AE:74:GLY:O	5:AE:116:THR:N	2.37	0.55
9:AI:112:LYS:HE3	9:AI:116:LYS:O	2.06	0.55
13:AM:57:ARG:CG	13:AM:61:GLU:HB2	2.36	0.55
14:AN:42:ILE:CG2	14:AN:43:CYS:N	2.69	0.55
20:AT:48:LYS:O	20:AT:49:ALA:C	2.49	0.55
22:AW:50:U:O2'	22:AW:51:U:H5'	2.06	0.55
25:AZ:20:VAL:HA	25:AZ:24:LYS:NZ	2.21	0.55
25:AZ:193:ASN:O	25:AZ:195:TRP:N	2.39	0.55
26:B0:30:VAL:HA	26:B0:65:GLY:O	2.05	0.55
26:B0:50:ASN:HD22	26:B0:63:VAL:CG2	2.18	0.55
27:B1:87:PRO:HA	27:B1:90:ILE:HG13	1.85	0.55
28:B2:24:LEU:HD23	28:B2:24:LEU:C	2.32	0.55
28:B2:66:GLU:HG3	28:B2:67:LYS:N	2.20	0.55
33:B7:9:ARG:HG2	36:BA:1309:G:P	2.45	0.55
34:B8:62:LEU:HD13	36:BA:242:G:C3'	2.33	0.55
36:BA:72:U:O4	36:BA:112:U:H4'	2.07	0.55
36:BA:201:C:H2'	36:BA:202:U:H5'	1.87	0.55
36:BA:584:C:C2'	36:BA:585:G:H5'	2.36	0.55
36:BA:757:U:H2'	36:BA:758:C:O4'	2.07	0.55
36:BA:1064:C:N4	36:BA:1074:G:H22	2.04	0.55
36:BA:1278:A:H2'	36:BA:1279:G:H8	1.71	0.55
36:BA:1655:A:H4'	40:BE:115:GLY:H	1.71	0.55
36:BA:2097:C:O2'	36:BA:2098:U:H5'	2.05	0.55
36:BA:2282:G:H2'	36:BA:2425:A:H61	1.72	0.55
36:BA:2408:U:H2'	36:BA:2409:G:C8	2.42	0.55
36:BA:2758:A:H62	43:BH:67:LEU:HD11	1.70	0.55
42:BG:22:ARG:HH11	42:BG:23:PHE:HE2	1.52	0.55
46:BN:26:LEU:CD1	46:BN:30:ILE:HD11	2.30	0.55
47:BO:105:GLU:O	47:BO:109:LYS:HG2	2.06	0.55
51:BS:54:LEU:C	51:BS:56:LEU:H	2.14	0.55
52:BT:28:VAL:HG11	52:BT:46:GLU:HA	1.88	0.55
53:BU:42:ALA:O	53:BU:43:GLY:C	2.49	0.55
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:66:ARG:HG2	54:BV:88:ARG:HB3	1.88	0.55
55:BW:41:LYS:C	55:BW:43:GLY:N	2.64	0.55
1:CA:197:A:H4'	1:CA:198:G:O5'	2.06	0.55
1:CA:285:G:O2'	1:CA:286:G:H5'	2.06	0.55
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.07	0.55
1:CA:1348:U:O3'	9:CI:120:ARG:HB2	2.07	0.55
1:CA:1348:U:C4'	9:CI:120:ARG:HD2	2.33	0.55
2:CB:170:GLU:O	2:CB:173:ALA:N	2.39	0.55
3:CC:156:ARG:H	3:CC:163:ALA:HA	1.71	0.55
7:CG:24:THR:HA	7:CG:27:ILE:CG1	2.36	0.55
8:CH:37:ARG:O	8:CH:37:ARG:HG2	2.05	0.55
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.20	0.55
12:CL:11:VAL:HG11	17:CQ:36:ILE:HG21	1.87	0.55
13:CM:120:LYS:HA	13:CM:120:LYS:CE	2.36	0.55
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.05	0.55
25:CZ:214:VAL:HG22	25:CZ:215:ARG:N	2.21	0.55
27:D1:3:LYS:HB2	36:DA:1364:G:H5''	1.88	0.55
28:D2:3:LEU:CD2	28:D2:3:LEU:C	2.79	0.55
28:D2:52:ASP:O	28:D2:56:GLN:CG	2.54	0.55
32:D6:36:LEU:HD12	32:D6:50:ARG:HH22	1.70	0.55
35:D9:17:ILE:HG21	35:D9:19:ARG:HH21	1.69	0.55
36:DA:141:A:H8	36:DA:1408:C:O2'	1.89	0.55
36:DA:197:A:H5'	36:DA:197:A:H8	1.69	0.55
36:DA:272(J):C:C3'	36:DA:274:G:H5''	2.37	0.55
36:DA:535:C:O3'	53:DU:53:ARG:HD3	2.06	0.55
36:DA:572:A:H5'	54:DV:78:LYS:HZ1	1.69	0.55
36:DA:719:C:O2'	36:DA:720:C:H5'	2.06	0.55
36:DA:950:G:H2'	36:DA:951:C:C6	2.41	0.55
36:DA:1092:C:H2'	36:DA:1093:G:O4'	2.06	0.55
36:DA:1651:G:N2	36:DA:1652:A:H1'	2.21	0.55
36:DA:2041:U:H2'	36:DA:2042:A:C8	2.41	0.55
36:DA:2249:U:H4'	36:DA:2275:C:H5	1.72	0.55
36:DA:2460:U:H2'	36:DA:2461:C:O4'	2.07	0.55
36:DA:2562:U:C2'	36:DA:2563:U:H5'	2.35	0.55
37:DB:6:C:H42	37:DB:115:G:H1	1.52	0.55
38:DC:6:ARG:HG2	38:DC:6:ARG:NH1	2.21	0.55
38:DC:74:VAL:HA	38:DC:112:ALA:CB	2.29	0.55
38:DC:189:ILE:O	38:DC:192:PHE:HB3	2.06	0.55
39:DD:131:LEU:HD13	39:DD:136:ILE:CD1	2.36	0.55
39:DD:218:ARG:HG3	39:DD:218:ARG:HH11	1.71	0.55
42:DG:54:GLU:OE1	42:DG:54:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:51:ARG:O	43:DH:52:VAL:HG23	2.05	0.55
45:DK:88:UNK:C	45:DK:90:UNK:N	2.68	0.55
46:DN:130:HIS:O	46:DN:130:HIS:CG	2.58	0.55
51:DS:26:LEU:HD23	51:DS:27:SER:O	2.06	0.55
55:DW:35:ILE:HG22	55:DW:36:LEU:N	2.22	0.55
55:DW:71:VAL:C	55:DW:73:ALA:H	2.13	0.55
58:DZ:150:LEU:O	58:DZ:151:HIS:HB3	2.07	0.55
1:AA:502:G:N2	1:AA:544:G:C4	2.75	0.55
1:AA:663:A:H61	1:AA:742:G:H1	1.54	0.55
3:AC:96:GLY:C	3:AC:97:LYS:HG2	2.32	0.55
8:AH:33:GLU:O	8:AH:34:GLU:C	2.50	0.55
10:AJ:34:VAL:HG22	10:AJ:74:ILE:CG2	2.33	0.55
16:AP:59:TRP:O	16:AP:64:ALA:HB2	2.06	0.55
25:AZ:150:VAL:O	25:AZ:154:VAL:HG23	2.05	0.55
25:AZ:267:VAL:HG23	25:AZ:288:VAL:HG13	1.89	0.55
25:AZ:300:ARG:O	25:AZ:302:GLN:N	2.39	0.55
28:B2:13:ALA:CA	28:B2:16:LEU:HD12	2.27	0.55
34:B8:21:LYS:HD3	34:B8:48:PHE:CE2	2.41	0.55
36:BA:271(B):C:H42	36:BA:271(W):G:H21	1.54	0.55
36:BA:310:A:H2	36:BA:330:A:HO2'	1.53	0.55
36:BA:464:U:O2'	36:BA:465:G:H5'	2.06	0.55
36:BA:907:U:H4'	49:BQ:101:ARG:HH12	1.70	0.55
36:BA:1260:G:H2'	36:BA:1261:C:C6	2.41	0.55
36:BA:1470:G:H3'	36:BA:1519:G:O6	2.06	0.55
36:BA:1487:G:C2	36:BA:1488:G:H1'	2.41	0.55
36:BA:1991:U:C2'	36:BA:1992:G:H5''	2.35	0.55
36:BA:2223:G:C2'	36:BA:2224:G:H5'	2.36	0.55
36:BA:2316:C:H2'	36:BA:2317:C:H6	1.70	0.55
36:BA:2341:G:C2	36:BA:2342:C:N3	2.75	0.55
36:BA:2699:C:O2'	36:BA:2700:C:H5'	2.06	0.55
37:BB:70:C:O2'	37:BB:71:C:H5'	2.06	0.55
39:BD:112:GLN:HB2	39:BD:115:GLN:HE21	1.71	0.55
39:BD:142:VAL:HG23	39:BD:192:THR:O	2.05	0.55
39:BD:204:ILE:HG13	39:BD:204:ILE:O	2.05	0.55
39:BD:231:HIS:ND1	39:BD:232:PRO:N	2.54	0.55
39:BD:261:LYS:HZ3	39:BD:263:ARG:HB2	1.70	0.55
39:BD:267:SER:O	39:BD:269:PHE:N	2.37	0.55
40:BE:144:ARG:C	40:BE:146:THR:H	2.14	0.55
42:BG:16:ARG:C	42:BG:18:GLU:H	2.13	0.55
42:BG:37:VAL:O	42:BG:94:LEU:HB2	2.06	0.55
42:BG:52:ILE:HB	42:BG:54:GLU:OE1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:174:GLU:HA	42:BG:180:PHE:CE1	2.41	0.55
46:BN:16:ILE:HD12	46:BN:139:GLU:N	2.20	0.55
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.35	0.55
49:BQ:19:GLY:CA	58:BZ:79:ARG:HH22	2.15	0.55
1:CA:113:G:O2'	1:CA:354:G:H5'	2.06	0.55
1:CA:156:G:H1'	1:CA:166:G:N2	2.22	0.55
1:CA:727:G:C2	1:CA:731:G:C6	2.95	0.55
1:CA:837:G:O2'	1:CA:838:G:H5'	2.07	0.55
1:CA:868:C:H2'	1:CA:869:G:O4'	2.07	0.55
1:CA:977:A:O2'	1:CA:978:A:H5'	2.06	0.55
1:CA:1150:U:O2'	10:CJ:41:PRO:HD3	2.06	0.55
1:CA:1394:A:N1	1:CA:1501:C:H5'	2.21	0.55
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.41	0.55
2:CB:212:GLN:NE2	2:CB:216:SER:HB2	2.21	0.55
5:CE:125:SER:O	5:CE:126:ARG:HG3	2.06	0.55
10:CJ:45:ARG:NE	14:CN:36:PHE:CE2	2.74	0.55
17:CQ:61:GLU:HA	17:CQ:71:PHE:CE1	2.41	0.55
25:CZ:86:ALA:O	25:CZ:87:ASP:HB2	2.05	0.55
25:CZ:221:PHE:CE1	25:CZ:247:VAL:HG13	2.41	0.55
30:D4:22:ILE:HD12	30:D4:22:ILE:N	2.11	0.55
32:D6:42:TRP:O	32:D6:44:ARG:N	2.33	0.55
35:D9:1:MET:SD	36:DA:2478:A:OP2	2.65	0.55
36:DA:31:C:C3'	36:DA:32:C:H5''	2.36	0.55
36:DA:675:A:H4'	41:DF:67:GLN:OE1	2.06	0.55
36:DA:898:C:C2'	36:DA:899:A:H5'	2.35	0.55
36:DA:1260:G:H2'	36:DA:1261:C:C6	2.41	0.55
36:DA:1392:A:H2'	36:DA:1393:A:O4'	2.05	0.55
36:DA:1536:C:H2'	36:DA:1537:G:C4'	2.36	0.55
36:DA:1541:G:O2'	36:DA:1542:A:H5''	2.06	0.55
36:DA:2007:C:C5'	36:DA:2824:C:H1'	2.36	0.55
36:DA:2061:G:H5''	36:DA:2503:A:C2	2.41	0.55
36:DA:2394:C:OP1	48:DP:63:PRO:HD2	2.06	0.55
36:DA:2569:G:O2'	36:DA:2570:G:H5'	2.06	0.55
37:DB:48:A:OP1	51:DS:93:LYS:HB3	2.05	0.55
39:DD:68:LYS:HB2	39:DD:70:TRP:CE2	2.41	0.55
40:DE:34:VAL:HG11	40:DE:78:LEU:HD22	1.87	0.55
42:DG:109:VAL:HG21	42:DG:142:PRO:HB3	1.89	0.55
42:DG:112:PRO:CG	42:DG:113:ARG:H	2.17	0.55
45:DK:98:UNK:HA	45:DK:135:UNK:CB	2.37	0.55
51:DS:97:ARG:O	51:DS:99:LYS:HG2	2.06	0.55
53:DU:92:ARG:HH22	54:DV:10:LYS:HG2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.32	0.55
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG21	1.88	0.55
1:AA:406:G:H2'	1:AA:407:G:H8	1.72	0.55
1:AA:793:U:O2	1:AA:1516:G:H4'	2.07	0.55
1:AA:909:A:P	12:AL:21:LYS:HD3	2.47	0.55
1:AA:920:U:C1'	1:AA:1080:A:C2	2.88	0.55
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.41	0.55
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.06	0.55
2:AB:155:LEU:HD11	2:AB:158:LEU:HA	1.88	0.55
4:AD:138:TYR:C	4:AD:138:TYR:CD2	2.82	0.55
4:AD:165:MET:HE3	4:AD:176:LEU:CD2	2.36	0.55
5:AE:105:VAL:N	5:AE:106:PRO:CD	2.69	0.55
6:AF:32:ASN:C	6:AF:34:GLY:H	2.13	0.55
6:AF:33:TYR:HB2	6:AF:75:LEU:HD13	1.87	0.55
12:AL:86:ARG:HB2	12:AL:101:VAL:HG22	1.87	0.55
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.22	0.55
15:AO:82:ILE:CG2	15:AO:83:GLU:H	2.14	0.55
16:AP:44:THR:O	16:AP:45:THR:CB	2.55	0.55
18:AR:53:ARG:CZ	18:AR:60:ALA:N	2.69	0.55
20:AT:23:ARG:HD3	20:AT:23:ARG:C	2.31	0.55
22:AW:26:A:H61	22:AW:44:G:H1	1.55	0.55
24:AY:68:U:H2'	24:AY:69:C:C6	2.41	0.55
25:AZ:272:MET:HB3	25:AZ:277:LEU:HD23	1.88	0.55
27:B1:24:ALA:CA	27:B1:32:LYS:HE3	2.36	0.55
28:B2:38:GLN:HB2	28:B2:44:LEU:HD22	1.87	0.55
36:BA:237:C:N3	36:BA:261:G:C2	2.75	0.55
36:BA:272(J):C:C3'	36:BA:274:G:H5''	2.37	0.55
36:BA:572:A:N6	36:BA:2029:G:H21	2.04	0.55
36:BA:607:U:H3	36:BA:621:A:H2	1.54	0.55
36:BA:1005:C:H2'	36:BA:1006:C:H6	1.69	0.55
36:BA:1056:G:H8	36:BA:1056:G:O5'	1.90	0.55
36:BA:1903:G:OP2	39:BD:241:PRO:HB2	2.06	0.55
36:BA:2126:A:H5'	38:BC:37:PHE:CE2	2.42	0.55
36:BA:2222:G:N3	36:BA:2223:G:C8	2.74	0.55
36:BA:2364:C:H2'	36:BA:2365:G:O4'	2.06	0.55
36:BA:2790:A:N3	36:BA:2791:C:H5''	2.22	0.55
36:BA:2810:A:C8	36:BA:2811:G:H1'	2.41	0.55
37:BB:40:U:H3'	37:BB:41:U:H5''	1.88	0.55
38:BC:70:LYS:HE3	38:BC:70:LYS:HA	1.88	0.55
38:BC:140:PRO:C	38:BC:142:ALA:N	2.64	0.55
39:BD:79:VAL:O	39:BD:113:VAL:HG13	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:270:ILE:HD12	39:BD:270:ILE:C	2.30	0.55
40:BE:76:ARG:O	40:BE:77:ILE:O	2.24	0.55
42:BG:44:GLY:H	42:BG:88:ILE:HG21	1.71	0.55
46:BN:131:GLN:NE2	46:BN:133:GLN:HA	2.21	0.55
47:BO:87:ILE:HD13	47:BO:93:PRO:HA	1.88	0.55
50:BR:28:LEU:HA	50:BR:34:ILE:CG1	2.37	0.55
50:BR:83:ILE:HG22	50:BR:87:TYR:HE2	1.70	0.55
51:BS:56:LEU:CD2	51:BS:58:LEU:HB2	2.36	0.55
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.49	0.55
53:BU:92:ARG:HH22	54:BV:10:LYS:HB3	1.72	0.55
54:BV:37:VAL:O	54:BV:37:VAL:HG23	2.07	0.55
55:BW:59:VAL:O	55:BW:63:ASP:N	2.28	0.55
58:BZ:12:GLY:HA3	58:BZ:36:LYS:NZ	2.20	0.55
58:BZ:127:LYS:H	58:BZ:163:LEU:HA	1.71	0.55
1:CA:502:G:N2	1:CA:544:G:C4	2.75	0.55
1:CA:928:G:H2'	1:CA:929:G:H5'	1.88	0.55
1:CA:1050:G:C6	1:CA:1209:C:N3	2.74	0.55
5:CE:7:GLU:HB3	5:CE:112:LEU:HD21	1.89	0.55
5:CE:72:GLN:NE2	5:CE:144:THR:HG22	2.20	0.55
8:CH:20:TYR:HD1	8:CH:65:TYR:CD2	2.25	0.55
11:CK:120:ARG:NH1	11:CK:126:ARG:HD2	2.19	0.55
16:CP:23:ASP:O	16:CP:25:ARG:N	2.40	0.55
20:CT:74:LYS:HD3	20:CT:74:LYS:H	1.71	0.55
24:CY:24:G:O2'	24:CY:25:C:H5'	2.07	0.55
24:CY:28:A:H2'	24:CY:29:C:C6	2.42	0.55
25:CZ:230:THR:O	25:CZ:231:ILE:HD13	2.05	0.55
31:D5:54:GLY:O	31:D5:56:LYS:HG2	2.06	0.55
32:D6:16:CYS:O	32:D6:17:LYS:CG	2.54	0.55
36:DA:223:A:C5	36:DA:422:A:H1'	2.41	0.55
36:DA:500:G:H2'	36:DA:502:A:OP2	2.06	0.55
36:DA:1186:G:C2'	36:DA:1187:G:H5'	2.36	0.55
36:DA:1229:G:H3'	36:DA:1230:C:C6	2.41	0.55
36:DA:1504:C:O2'	36:DA:1505:C:C5'	2.55	0.55
36:DA:1783:A:N1	36:DA:2587:A:C2	2.75	0.55
36:DA:1992:G:C4	36:DA:1997:G:O6	2.60	0.55
36:DA:2013:A:N6	36:DA:2014:A:C6	2.75	0.55
36:DA:2517:C:C2	36:DA:2542:A:N1	2.74	0.55
36:DA:2677:G:H2'	36:DA:2678:C:C6	2.41	0.55
36:DA:2790:A:N3	36:DA:2791:C:H5''	2.21	0.55
39:DD:232:PRO:CD	39:DD:249:PRO:HA	2.30	0.55
40:DE:100:GLU:O	40:DE:172:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:17:ARG:HG3	41:DF:17:ARG:HH11	1.71	0.55
41:DF:143:ALA:O	41:DF:148:LEU:HB2	2.06	0.55
42:DG:37:VAL:CG2	42:DG:159:VAL:HG23	2.30	0.55
42:DG:104:GLU:C	42:DG:106:LEU:H	2.12	0.55
42:DG:131:TYR:HB3	42:DG:159:VAL:CG1	2.37	0.55
42:DG:165:THR:OG1	42:DG:168:GLU:HG3	2.07	0.55
45:DK:113:UNK:O	45:DK:114:UNK:CB	2.55	0.55
46:DN:16:ILE:HG23	46:DN:16:ILE:O	2.05	0.55
46:DN:36:GLY:H	46:DN:49:GLY:HA3	1.70	0.55
47:DO:107:ARG:HG3	47:DO:112:MET:HE1	1.89	0.55
48:DP:23:PRO:O	48:DP:30:THR:HA	2.05	0.55
48:DP:45:LEU:HD22	48:DP:46:LYS:H	1.70	0.55
48:DP:59:LEU:C	48:DP:61:ARG:N	2.62	0.55
48:DP:101:VAL:CG2	48:DP:102:ARG:N	2.69	0.55
49:DQ:39:PRO:CD	49:DQ:99:PRO:HG2	2.37	0.55
49:DQ:52:VAL:O	49:DQ:53:ALA:C	2.48	0.55
52:DT:64:ARG:HH11	52:DT:102:ILE:HD11	1.72	0.55
52:DT:78:LEU:C	52:DT:79:HIS:CD2	2.85	0.55
53:DU:14:HIS:C	53:DU:16:LYS:N	2.61	0.55
1:AA:321:A:H62	1:AA:328:C:H1'	1.72	0.55
1:AA:827:U:H5'	1:AA:828:A:OP2	2.06	0.55
1:AA:946:A:C6	1:AA:947:G:C6	2.95	0.55
1:AA:991:U:H2'	1:AA:991:U:O2	2.06	0.55
3:AC:5:ILE:N	3:AC:5:ILE:HD13	2.21	0.55
4:AD:71:SER:O	4:AD:72:GLU:C	2.50	0.55
5:AE:12:LEU:C	5:AE:13:ILE:HG13	2.31	0.55
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.05	0.55
5:AE:102:ALA:HB2	5:AE:120:THR:HG21	1.88	0.55
7:AG:106:GLN:O	7:AG:110:GLN:N	2.32	0.55
8:AH:36:LEU:C	8:AH:38:ILE:H	2.14	0.55
9:AI:11:LYS:HG3	9:AI:108:VAL:HG13	1.89	0.55
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.07	0.55
13:AM:79:LYS:O	13:AM:82:MET:HG2	2.06	0.55
13:AM:91:ARG:O	13:AM:95:GLY:N	2.40	0.55
25:AZ:341:GLN:N	25:AZ:341:GLN:NE2	2.53	0.55
34:B8:22:VAL:CG2	34:B8:53:PRO:HB2	2.36	0.55
34:B8:50:LEU:O	34:B8:52:LYS:N	2.35	0.55
36:BA:379:G:C6	36:BA:396:G:O6	2.60	0.55
36:BA:532:A:H5''	53:BU:28:ARG:HH12	1.71	0.55
36:BA:635:C:H2'	36:BA:636:G:C8	2.41	0.55
36:BA:886:C:O2'	36:BA:887:A:C4'	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:942:G:H5'	48:BP:35:HIS:C	2.31	0.55
36:BA:950:G:H2'	36:BA:951:C:C6	2.42	0.55
36:BA:1845:G:O2'	36:BA:1846:G:H5'	2.06	0.55
36:BA:2880:C:H3'	36:BA:2880:C:C6	2.41	0.55
38:BC:77:ILE:HG22	38:BC:77:ILE:O	2.06	0.55
39:BD:3:VAL:HG12	39:BD:17:THR:HB	1.88	0.55
39:BD:172:TYR:HD1	39:BD:186:HIS:HA	1.71	0.55
40:BE:69:LYS:O	40:BE:71:GLY:N	2.33	0.55
41:BF:135:LYS:HB3	41:BF:138:GLU:CB	2.33	0.55
43:BH:135:GLY:HA3	43:BH:141:VAL:CG2	2.37	0.55
43:BH:148:ILE:O	43:BH:162:ILE:HG21	2.07	0.55
49:BQ:75:THR:HG21	49:BQ:87:LYS:NZ	2.22	0.55
49:BQ:141:GLN:CD	58:BZ:72:ARG:HD3	2.31	0.55
50:BR:14:SER:O	50:BR:17:ARG:N	2.37	0.55
52:BT:13:ARG:NE	52:BT:13:ARG:CA	2.69	0.55
53:BU:14:HIS:C	53:BU:16:LYS:N	2.61	0.55
57:BY:98:VAL:O	57:BY:99:CYS:HB2	2.05	0.55
1:CA:310:G:H4'	16:CP:31:LYS:HD2	1.87	0.55
1:CA:630:G:H2'	1:CA:630:G:N3	2.21	0.55
1:CA:987:G:O2'	1:CA:988:G:H5'	2.07	0.55
4:CD:128:VAL:O	4:CD:130:GLY:N	2.39	0.55
5:CE:48:ALA:C	5:CE:50:GLU:H	2.12	0.55
6:CF:53:ALA:HB3	6:CF:86:ARG:NH1	2.20	0.55
7:CG:41:ARG:O	7:CG:44:TYR:HB2	2.07	0.55
8:CH:81:HIS:HB2	8:CH:138:TRP:CZ3	2.41	0.55
9:CI:65:VAL:HG22	9:CI:66:ARG:N	2.22	0.55
19:CS:40:ILE:CG2	19:CS:67:VAL:HA	2.37	0.55
20:CT:53:LEU:O	20:CT:54:LYS:C	2.50	0.55
22:CV:27:G:H2'	22:CV:28:G:C8	2.41	0.55
26:D0:39:ARG:NH2	36:DA:2354:G:H22	2.03	0.55
27:D1:67:ILE:N	27:D1:68:PRO:CD	2.67	0.55
34:D8:28:GLY:C	34:D8:30:ARG:H	2.14	0.55
34:D8:62:LEU:HD13	36:DA:242:G:C3'	2.31	0.55
35:D9:10:ILE:HD12	35:D9:10:ILE:N	2.02	0.55
36:DA:66:C:O4'	36:DA:456:C:N3	2.39	0.55
36:DA:319:C:H2'	36:DA:320:A:C8	2.42	0.55
36:DA:594:U:H3	36:DA:663:G:H1	1.54	0.55
36:DA:1106:G:H2'	36:DA:1107:G:H5'	1.89	0.55
36:DA:1899:G:H21	36:DA:1902:C:N4	2.04	0.55
36:DA:1949:G:H1	36:DA:1957:C:N4	2.04	0.55
36:DA:2199:A:H3'	36:DA:2200:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:147:LEU:HD21	39:DD:183:ARG:CZ	2.37	0.55
39:DD:227:ASN:HB3	39:DD:228:PRO:HD2	1.88	0.55
39:DD:273:ARG:C	39:DD:274:ARG:HG3	2.32	0.55
40:DE:56:PRO:O	40:DE:57:LYS:HD2	2.07	0.55
41:DF:11:VAL:C	41:DF:13:SER:H	2.15	0.55
42:DG:44:GLY:O	42:DG:47:LYS:HD2	2.06	0.55
42:DG:76:SER:CB	42:DG:83:ARG:HB3	2.36	0.55
49:DQ:51:ARG:HG3	49:DQ:51:ARG:NH1	2.22	0.55
49:DQ:67:ARG:N	49:DQ:103:MET:O	2.37	0.55
49:DQ:70:PRO:CA	49:DQ:94:VAL:O	2.54	0.55
53:DU:17:ILE:HA	53:DU:20:LEU:HD23	1.88	0.55
1:AA:390:C:H2'	1:AA:391:G:H8	1.72	0.55
1:AA:507:C:H3'	1:AA:508:C:H6	1.72	0.55
1:AA:603:U:H2'	1:AA:604:G:H8	1.72	0.55
1:AA:1314:C:N4	19:AS:4:SER:HB2	2.20	0.55
2:AB:114:ARG:HD3	2:AB:114:ARG:O	2.05	0.55
7:AG:137:LYS:O	7:AG:138:LYS:C	2.49	0.55
8:AH:100:ILE:HG23	8:AH:101:PRO:HD2	1.89	0.55
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.31	0.55
10:AJ:53:PRO:C	14:AN:41:ARG:NH2	2.65	0.55
13:AM:54:VAL:O	13:AM:57:ARG:N	2.40	0.55
17:AQ:56:VAL:HG21	17:AQ:81:ARG:HG3	1.87	0.55
19:AS:62:ILE:HD12	19:AS:66:MET:CE	2.37	0.55
22:AV:27:G:H2'	22:AV:28:G:C8	2.41	0.55
22:AV:53:G:H1	22:AV:61:C:N4	1.93	0.55
25:AZ:356:PRO:N	25:AZ:359:VAL:CG2	2.68	0.55
26:B0:22:GLY:C	26:B0:38:VAL:HG13	2.31	0.55
28:B2:33:MET:SD	56:BX:5:TYR:O	2.65	0.55
30:B4:6:HIS:HA	42:BG:67:LYS:HE3	1.88	0.55
31:B5:54:GLY:O	31:B5:56:LYS:HG2	2.07	0.55
36:BA:65:C:H5'	56:BX:71:GLY:HA3	1.89	0.55
36:BA:401:A:H2'	36:BA:402:A:C8	2.41	0.55
36:BA:440:G:N2	41:BF:46:ARG:NH2	2.53	0.55
36:BA:1106:G:H2'	36:BA:1107:G:H5'	1.87	0.55
36:BA:1350:C:H2'	36:BA:1351:C:C6	2.37	0.55
36:BA:1361:G:N2	36:BA:1371:G:H1'	2.22	0.55
36:BA:1568:G:OP2	39:BD:63:ARG:NH2	2.33	0.55
37:BB:30:C:H1'	37:BB:57:A:N6	2.21	0.55
38:BC:103:ILE:HG23	38:BC:107:TRP:CB	2.37	0.55
39:BD:28:GLU:H	39:BD:29:PRO:CD	2.19	0.55
39:BD:67:PHE:CE1	39:BD:157:ARG:NH2	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:273:ARG:C	39:BD:274:ARG:HG3	2.31	0.55
40:BE:52:LEU:HD12	40:BE:53:PRO:HD2	1.88	0.55
42:BG:47:LYS:CE	42:BG:81:LYS:HG3	2.36	0.55
43:BH:44:VAL:CG1	43:BH:45:VAL:H	2.11	0.55
46:BN:3:THR:C	46:BN:4:TYR:CG	2.83	0.55
47:BO:7:TYR:HE1	47:BO:20:MET:CE	2.15	0.55
48:BP:23:PRO:O	48:BP:30:THR:HA	2.06	0.55
48:BP:24:GLY:HA3	48:BP:33:ARG:HH12	1.71	0.55
49:BQ:67:ARG:HB2	49:BQ:102:VAL:O	2.07	0.55
52:BT:129:ARG:HD2	52:BT:131:ALA:H	1.72	0.55
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.37	0.55
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.05	0.55
1:CA:35:G:H2'	1:CA:36:C:H6	1.70	0.55
1:CA:406:G:H2'	1:CA:407:G:H8	1.70	0.55
1:CA:633:G:C5	1:CA:634:C:C5	2.95	0.55
1:CA:866:C:H4'	1:CA:919:A:OP1	2.06	0.55
1:CA:1012:U:H2'	1:CA:1013:G:O4'	2.06	0.55
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.41	0.55
2:CB:69:LEU:HD12	2:CB:71:VAL:CG2	2.35	0.55
2:CB:114:ARG:HD3	2:CB:114:ARG:O	2.07	0.55
2:CB:212:GLN:HE22	2:CB:216:SER:HB2	1.70	0.55
4:CD:50:ARG:O	4:CD:51:PRO:C	2.49	0.55
13:CM:124:PRO:O	13:CM:126:LYS:N	2.40	0.55
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.06	0.55
22:CW:18:G:H1	22:CW:55:U:H1'	1.71	0.55
36:DA:298:G:H5'	36:DA:299:A:OP1	2.06	0.55
36:DA:708:C:H5'	36:DA:709:U:OP2	2.06	0.55
36:DA:856:C:H2'	36:DA:857:C:O4'	2.07	0.55
36:DA:953:A:OP2	49:DQ:16:ARG:CZ	2.55	0.55
36:DA:968:G:H2'	36:DA:969:U:H6	1.68	0.55
36:DA:1042:G:H1	36:DA:1112:G:H22	1.54	0.55
36:DA:1057:A:O2'	36:DA:1058:G:H5'	2.07	0.55
36:DA:1221(A):C:H42	36:DA:1228:G:H1	1.54	0.55
36:DA:1431:U:H2'	36:DA:1432:C:C5'	2.37	0.55
36:DA:1487:G:C2	36:DA:1488:G:H1'	2.42	0.55
36:DA:1775:U:H2'	36:DA:1776:G:C4'	2.36	0.55
36:DA:2333:A:H1'	36:DA:2335:A:C5	2.41	0.55
36:DA:2550:G:O2'	36:DA:2551:C:H5'	2.07	0.55
38:DC:122:ALA:O	38:DC:126:LYS:HG2	2.07	0.55
40:DE:81:ILE:O	40:DE:81:ILE:CG2	2.54	0.55
41:DF:101:LEU:HD12	41:DF:102:PRO:CD	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:64:THR:HA	42:DG:102:PHE:CD2	2.42	0.55
43:DH:83:TYR:CB	43:DH:135:GLY:H	2.14	0.55
46:DN:71:ILE:HG22	46:DN:72:TYR:N	2.21	0.55
46:DN:131:GLN:NE2	46:DN:133:GLN:HA	2.22	0.55
49:DQ:54:MET:HG2	49:DQ:64:ILE:HD13	1.88	0.55
53:DU:113:ALA:C	53:DU:115:ALA:H	2.13	0.55
56:DX:8:ILE:HD12	56:DX:8:ILE:N	2.22	0.55
58:DZ:61:LEU:HD11	58:DZ:67:LEU:HD11	1.89	0.55
1:AA:15:G:H4'	5:AE:24:ARG:HH21	1.71	0.55
1:AA:412:A:H4'	1:AA:413:G:C8	2.40	0.55
1:AA:484:G:H4'	1:AA:485:G:O5'	2.07	0.55
1:AA:509:A:H5'	4:AD:54:TYR:HD2	1.72	0.55
1:AA:540:G:H2'	1:AA:541:G:C8	2.42	0.55
1:AA:719:C:O2	18:AR:50:ILE:HG12	2.05	0.55
1:AA:823:G:N3	8:AH:1:MET:HE1	2.22	0.55
1:AA:1050:G:C6	1:AA:1209:C:N3	2.75	0.55
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.07	0.55
1:AA:1348:U:O2'	1:AA:1349:A:C8	2.57	0.55
4:AD:101:LEU:O	4:AD:104:VAL:HB	2.06	0.55
5:AE:92:LYS:H	5:AE:118:ILE:HD11	1.72	0.55
6:AF:7:ASN:C	6:AF:8:ILE:HG13	2.32	0.55
14:AN:7:ILE:HG13	14:AN:8:GLU:N	2.20	0.55
15:AO:27:VAL:O	15:AO:28:GLN:C	2.50	0.55
18:AR:59:SER:O	18:AR:60:ALA:C	2.50	0.55
24:AY:11:C:C3'	24:AY:12:U:H5''	2.36	0.55
25:AZ:106:VAL:O	25:AZ:136:ASN:N	2.39	0.55
28:B2:32:LEU:O	28:B2:32:LEU:HD23	2.07	0.55
30:B4:19:GLY:O	30:B4:20:ASN:C	2.49	0.55
30:B4:25:TYR:N	30:B4:25:TYR:CD1	2.75	0.55
34:B8:50:LEU:O	34:B8:53:PRO:HD2	2.06	0.55
36:BA:61:G:H8	36:BA:61:G:O5'	1.89	0.55
36:BA:205:G:O2'	36:BA:206:U:OP2	2.24	0.55
36:BA:309:G:O3'	57:BY:18:GLY:CA	2.55	0.55
36:BA:1463:C:H2'	36:BA:1464:C:O4'	2.07	0.55
36:BA:1798:U:H5''	39:BD:260:ARG:H	1.72	0.55
36:BA:2062:A:O2'	36:BA:2063:C:H5'	2.06	0.55
36:BA:2149:G:H2'	36:BA:2150:U:O4'	2.07	0.55
36:BA:2243:U:O2	36:BA:2434:A:C2	2.59	0.55
36:BA:2290:G:H22	36:BA:2343:C:H1'	1.70	0.55
36:BA:2684:U:O5'	36:BA:2684:U:H6	1.90	0.55
37:BB:72:G:H21	37:BB:104:U:H5	1.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:23:ASP:O	38:BC:24:GLU:C	2.49	0.55
38:BC:46:LYS:C	38:BC:47:LEU:HD12	2.31	0.55
41:BF:3:GLU:HA	41:BF:24:LEU:HB2	1.89	0.55
41:BF:195:ASP:HB3	41:BF:198:ALA:HB3	1.87	0.55
42:BG:83:ARG:C	42:BG:85:GLY:H	2.15	0.55
42:BG:121:ASN:OD1	42:BG:121:ASN:C	2.48	0.55
42:BG:146:TYR:C	42:BG:148:MET:N	2.62	0.55
43:BH:83:TYR:HB2	43:BH:135:GLY:N	2.13	0.55
46:BN:6:PRO:CB	46:BN:41:ASP:OD1	2.55	0.55
48:BP:16:ARG:CD	48:BP:18:ARG:H	2.18	0.55
48:BP:58:THR:C	48:BP:61:ARG:HE	2.14	0.55
52:BT:61:PHE:O	52:BT:75:ILE:HG23	2.07	0.55
52:BT:64:ARG:NH1	52:BT:102:ILE:HD11	2.21	0.55
52:BT:83:ILE:O	52:BT:84:GLN:O	2.23	0.55
53:BU:66:ASN:CB	53:BU:76:TYR:HB2	2.36	0.55
1:CA:726:C:H2'	1:CA:727:G:C8	2.41	0.55
1:CA:826:C:H2'	1:CA:827:U:C6	2.40	0.55
1:CA:1054:C:N4	24:CY:34:G:O2'	2.34	0.55
1:CA:1231:G:H2'	1:CA:1232:U:H6	1.72	0.55
1:CA:1349:A:OP1	9:CI:121:ARG:N	2.40	0.55
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.37	0.55
1:CA:1465:C:O2'	1:CA:1466:C:H5'	2.06	0.55
2:CB:173:ALA:O	2:CB:174:VAL:C	2.50	0.55
4:CD:13:ARG:O	4:CD:15:GLU:N	2.39	0.55
4:CD:98:GLU:OE2	4:CD:107:ARG:NH2	2.39	0.55
4:CD:132:ARG:HG2	4:CD:132:ARG:HH11	1.72	0.55
6:CF:2:ARG:HG3	6:CF:69:GLU:OE1	2.07	0.55
9:CI:11:LYS:O	9:CI:13:ALA:N	2.40	0.55
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.31	0.55
12:CL:90:VAL:O	12:CL:92:ASP:N	2.40	0.55
16:CP:58:TYR:CD1	16:CP:58:TYR:C	2.85	0.55
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.88	0.55
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.55	0.55
22:CW:26:A:H61	22:CW:44:G:H1	1.54	0.55
24:CY:11:C:C3'	24:CY:12:U:H5''	2.37	0.55
25:CZ:24:LYS:HA	25:CZ:105:VAL:HG21	1.87	0.55
25:CZ:220:PRO:O	25:CZ:245:GLY:HA3	2.07	0.55
25:CZ:343:TYR:CE2	25:CZ:348:ASP:HB2	2.42	0.55
34:D8:47:LYS:HD3	34:D8:48:PHE:O	2.07	0.55
36:DA:20:C:O2'	36:DA:21:A:H5'	2.06	0.55
36:DA:532:A:H2'	36:DA:532:A:N3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:936:C:H2'	36:DA:937:U:C6	2.42	0.55
36:DA:1011:G:O2'	36:DA:1013:C:C5'	2.55	0.55
36:DA:1056:G:H8	36:DA:1056:G:O5'	1.88	0.55
36:DA:1090:U:O4	36:DA:1102:C:H1'	2.07	0.55
36:DA:1655:A:H4'	40:DE:114:ALA:HA	1.87	0.55
36:DA:1779:U:C2'	36:DA:1783:A:H62	2.19	0.55
36:DA:2305:A:H1'	42:DG:136:ARG:HG2	1.88	0.55
36:DA:2414:G:H21	48:DP:67:MET:HE1	1.71	0.55
36:DA:2457:U:C2'	36:DA:2458:G:H5'	2.37	0.55
36:DA:2762:G:C2'	36:DA:2763:G:H5'	2.36	0.55
36:DA:2820:A:H4'	50:DR:5:LYS:HE2	1.88	0.55
37:DB:30:C:H1'	37:DB:57:A:N6	2.20	0.55
38:DC:22:ILE:HD12	38:DC:228:SER:C	2.32	0.55
39:DD:79:VAL:O	39:DD:113:VAL:HG13	2.07	0.55
41:DF:25:PRO:HB3	41:DF:119:ARG:CB	2.36	0.55
41:DF:33:LEU:O	41:DF:37:VAL:HG23	2.06	0.55
42:DG:9:ARG:O	42:DG:13:GLU:HG2	2.07	0.55
46:DN:131:GLN:HE22	46:DN:133:GLN:CA	2.19	0.55
47:DO:111:PHE:CB	47:DO:114:ILE:HD13	2.33	0.55
49:DQ:43:THR:CB	49:DQ:45:GLN:NE2	2.69	0.55
50:DR:28:LEU:HA	50:DR:34:ILE:HG13	1.87	0.55
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	2.22	0.55
56:DX:10:ALA:HB1	56:DX:11:PRO:CD	2.37	0.55
58:DZ:10:ARG:HB3	58:DZ:36:LYS:CB	2.32	0.55
1:AA:8:A:C5'	5:AE:120:THR:O	2.55	0.55
1:AA:137:C:H42	1:AA:226:G:H1	1.52	0.55
1:AA:858:G:H22	1:AA:869:G:H3'	1.71	0.55
1:AA:987:G:O2'	1:AA:988:G:H5'	2.06	0.55
1:AA:1011:G:C2	1:AA:1019:C:N3	2.75	0.55
1:AA:1047:G:C5'	14:AN:4:LYS:HE2	2.26	0.55
1:AA:1102:A:C4	1:AA:1103:C:C5	2.95	0.55
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.42	0.55
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.71	0.55
1:AA:1330:U:H4'	13:AM:23:TYR:CE2	2.42	0.55
2:AB:147:LYS:HG2	2:AB:147:LYS:O	2.06	0.55
4:AD:131:ARG:H	4:AD:131:ARG:CD	2.11	0.55
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.86	0.55
8:AH:17:THR:HB	8:AH:78:GLN:CD	2.31	0.55
10:AJ:47:PHE:CE2	14:AN:37:PHE:HE2	2.24	0.55
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.06	0.55
15:AO:81:LEU:O	15:AO:82:ILE:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:90:ILE:O	17:AQ:91:ARG:C	2.47	0.55
22:AW:31:A:H2'	22:AW:32:U:H6	1.72	0.55
27:B1:62:VAL:HG11	27:B1:67:ILE:HA	1.89	0.55
27:B1:71:TYR:O	27:B1:74:VAL:CB	2.55	0.55
29:B3:45:GLY:HA2	29:B3:48:GLU:HG2	1.87	0.55
33:B7:11:LYS:O	33:B7:14:LYS:N	2.39	0.55
33:B7:31:LEU:O	33:B7:33:ARG:N	2.40	0.55
36:BA:380:U:H2'	36:BA:381:G:H8	1.69	0.55
36:BA:1215:G:H4'	53:BU:8:VAL:HG21	1.89	0.55
36:BA:1451:C:H4'	36:BA:1452:A:C8	2.42	0.55
36:BA:2033:A:O2'	36:BA:2034:U:OP1	2.24	0.55
36:BA:2223:G:H2'	36:BA:2224:G:H5'	1.89	0.55
36:BA:2339:G:H2'	36:BA:2340:G:H8	1.72	0.55
36:BA:2414:G:H21	48:BP:67:MET:HE1	1.72	0.55
36:BA:2530:A:H2'	36:BA:2531:A:H5''	1.88	0.55
38:BC:7:TYR:CZ	38:BC:11:LEU:HD21	2.41	0.55
39:BD:241:PRO:C	39:BD:242:ARG:HD2	2.32	0.55
40:BE:36:ARG:C	40:BE:37:ARG:HG2	2.31	0.55
40:BE:199:ARG:CZ	40:BE:199:ARG:HB2	2.36	0.55
46:BN:2:LYS:HZ1	54:BV:12:TYR:HA	1.71	0.55
46:BN:128:HIS:HD2	46:BN:130:HIS:CE1	2.25	0.55
53:BU:108:GLU:OE2	54:BV:44:LYS:HB3	2.06	0.55
58:BZ:50:GLN:O	58:BZ:51:ALA:C	2.50	0.55
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.70	0.55
1:CA:1363(A):A:H1'	1:CA:1365:G:C5	2.41	0.55
2:CB:200:ILE:H	2:CB:200:ILE:CD1	2.04	0.55
4:CD:100:ARG:HB3	4:CD:103:ASN:HB3	1.89	0.55
6:CF:33:TYR:HB2	6:CF:75:LEU:HD13	1.88	0.55
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.22	0.55
25:CZ:143:ASP:OD1	25:CZ:146:LEU:HB2	2.07	0.55
25:CZ:255:ILE:HG22	25:CZ:302:GLN:NE2	2.22	0.55
27:D1:7:ILE:HD12	27:D1:70:VAL:HG23	1.87	0.55
30:D4:7:PRO:O	30:D4:8:LYS:HB3	2.07	0.55
31:D5:44:THR:HG22	31:D5:45:VAL:N	2.19	0.55
34:D8:3:LYS:HD2	36:DA:242:G:C8	2.41	0.55
36:DA:48:G:N2	36:DA:177:G:N2	2.54	0.55
36:DA:329:G:OP1	57:DY:71:LYS:HD3	2.07	0.55
36:DA:391:G:O2'	36:DA:392:C:H5'	2.06	0.55
36:DA:415:A:N1	36:DA:2409:G:C6	2.75	0.55
36:DA:847:U:H2'	36:DA:848:G:H5''	1.89	0.55
36:DA:886:C:O2'	36:DA:887:A:C4'	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2316:C:H2'	36:DA:2317:C:H6	1.71	0.55
36:DA:2596:U:H3'	36:DA:2597:G:H8	1.71	0.55
36:DA:2837:G:H2'	36:DA:2838:G:C8	2.34	0.55
39:DD:161:THR:H	39:DD:196:VAL:HB	1.71	0.55
40:DE:56:PRO:O	40:DE:57:LYS:HB2	2.06	0.55
41:DF:130:ALA:HB3	41:DF:142:TRP:CD1	2.41	0.55
42:DG:12:TYR:O	42:DG:16:ARG:HB2	2.06	0.55
42:DG:106:LEU:HG	42:DG:107:LEU:HD23	1.89	0.55
42:DG:129:GLY:HA3	42:DG:163:ALA:O	2.07	0.55
48:DP:24:GLY:HA3	48:DP:33:ARG:HH12	1.72	0.55
48:DP:24:GLY:CA	48:DP:33:ARG:HH12	2.20	0.55
52:DT:32:TYR:CG	52:DT:81:PRO:HB3	2.42	0.55
1:AA:642:A:N7	8:AH:115:SER:HA	2.22	0.55
1:AA:666:G:C5	1:AA:741:G:C6	2.95	0.55
1:AA:678:U:H2'	1:AA:679:C:C6	2.42	0.55
1:AA:803:G:C6	1:AA:804:U:C4	2.94	0.55
1:AA:1166:G:H1'	1:AA:1171:G:H22	1.72	0.55
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.72	0.55
1:AA:1269:A:H2'	1:AA:1270:C:H5'	1.87	0.55
1:AA:1433:A:N6	1:AA:1434:A:C6	2.75	0.55
2:AB:179:LYS:HA	8:AH:72:PRO:CD	2.36	0.55
7:AG:31:MET:C	7:AG:32:ARG:HG3	2.32	0.55
7:AG:150:ALA:HB2	11:AK:50:TYR:CE2	2.42	0.55
8:AH:97:VAL:HA	8:AH:100:ILE:HG13	1.89	0.55
8:AH:109:ILE:CG2	8:AH:137:VAL:HB	2.36	0.55
9:AI:65:VAL:HG11	9:AI:73:GLN:NE2	2.22	0.55
13:AM:2:ALA:HB3	13:AM:9:ILE:CG2	2.37	0.55
13:AM:19:LEU:HD12	13:AM:25:ILE:CD1	2.37	0.55
13:AM:68:GLY:C	13:AM:70:LEU:N	2.60	0.55
16:AP:58:TYR:CD1	16:AP:58:TYR:C	2.84	0.55
20:AT:53:LEU:O	20:AT:54:LYS:C	2.50	0.55
24:AY:24:G:O2'	24:AY:25:C:H5'	2.07	0.55
27:B1:73:LEU:HD22	27:B1:94:LEU:HB3	1.89	0.55
28:B2:3:LEU:C	28:B2:3:LEU:HD23	2.32	0.55
28:B2:3:LEU:O	28:B2:3:LEU:HD23	2.07	0.55
28:B2:11:GLU:O	28:B2:15:LYS:HE3	2.06	0.55
28:B2:30:ARG:HG3	56:BX:5:TYR:CE2	2.42	0.55
30:B4:5:ILE:HD13	30:B4:5:ILE:H	1.71	0.55
36:BA:108:U:H2'	36:BA:109:G:C8	2.42	0.55
36:BA:133:C:N3	36:BA:146:G:O6	2.40	0.55
36:BA:325:G:H2'	36:BA:326:G:H8	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:463:G:C2	36:BA:467:G:C6	2.94	0.55
36:BA:774:A:H2	36:BA:787:U:O2'	1.89	0.55
36:BA:1437:C:H2'	36:BA:1437:C:O2	2.05	0.55
36:BA:1798:U:H5'	39:BD:259:THR:HB	1.88	0.55
36:BA:1853:A:H1'	36:BA:2233:U:O2'	2.06	0.55
36:BA:2065:C:H2'	36:BA:2066:C:C6	2.42	0.55
36:BA:2623:G:O5'	36:BA:2826:A:H1'	2.07	0.55
36:BA:2746:U:H2'	36:BA:2747:G:H8	1.71	0.55
38:BC:6:ARG:HD2	38:BC:34:THR:HG22	1.88	0.55
39:BD:164:GLN:OE1	39:BD:176:ARG:NH2	2.40	0.55
41:BF:158:THR:HB	41:BF:195:ASP:CB	2.36	0.55
42:BG:10:LYS:HE2	42:BG:14:GLU:OE2	2.07	0.55
42:BG:138:GLN:O	42:BG:140:ILE:N	2.40	0.55
46:BN:130:HIS:O	46:BN:130:HIS:CG	2.60	0.55
48:BP:85:LEU:CD1	48:BP:120:ALA:HB2	2.37	0.55
52:BT:26:ASP:HB3	52:BT:89:VAL:O	2.07	0.55
54:BV:16:PRO:O	54:BV:96:ILE:HB	2.06	0.55
54:BV:78:LYS:O	54:BV:79:VAL:HG23	2.07	0.55
55:BW:107:LEU:HD12	55:BW:107:LEU:N	2.22	0.55
57:BY:76:CYS:O	57:BY:77:PRO:C	2.50	0.55
58:BZ:141:VAL:O	58:BZ:141:VAL:HG12	2.05	0.55
1:CA:777:A:H2'	1:CA:778:G:C8	2.42	0.55
1:CA:815:A:C2	1:CA:1529:G:C4	2.95	0.55
1:CA:951:G:C6	1:CA:1231:G:C6	2.95	0.55
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.90	0.55
1:CA:1504:G:H4'	1:CA:1505:G:H5'	1.89	0.55
2:CB:127:ILE:C	2:CB:129:GLU:H	2.14	0.55
2:CB:130:ARG:NH2	2:CB:134:GLU:HG3	2.22	0.55
4:CD:73:ARG:O	4:CD:77:ASN:HB2	2.07	0.55
8:CH:100:ILE:HG23	8:CH:101:PRO:HD2	1.89	0.55
10:CJ:34:VAL:HG22	10:CJ:74:ILE:CG2	2.30	0.55
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.36	0.55
20:CT:48:LYS:O	20:CT:49:ALA:C	2.49	0.55
26:D0:3:HIS:HB2	36:DA:2494:G:OP1	2.07	0.55
27:D1:70:VAL:O	27:D1:71:TYR:C	2.49	0.55
31:D5:48:GLU:O	31:D5:49:CYS:CB	2.55	0.55
31:D5:56:LYS:O	31:D5:57:VAL:C	2.49	0.55
33:D7:15:THR:CG2	33:D7:15:THR:O	2.55	0.55
33:D7:24:THR:C	33:D7:26:GLY:H	2.12	0.55
36:DA:71:A:O2'	36:DA:72:U:OP2	2.19	0.55
36:DA:177:G:H3'	36:DA:178:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:197:A:N6	36:DA:2430:A:H2'	2.21	0.55
36:DA:378:C:H2'	36:DA:379:G:H8	1.71	0.55
36:DA:1741:A:H3'	36:DA:1742:G:C8	2.42	0.55
36:DA:2051:A:OP1	40:DE:137:HIS:ND1	2.40	0.55
36:DA:2133:G:O2'	36:DA:2134:A:H8	1.90	0.55
37:DB:2:C:H2'	37:DB:3:C:C6	2.42	0.55
39:DD:67:PHE:CE1	39:DD:157:ARG:NH2	2.74	0.55
39:DD:125:ILE:O	39:DD:125:ILE:HG22	2.07	0.55
39:DD:149:PRO:CG	39:DD:186:HIS:HD2	2.20	0.55
40:DE:48:GLN:NE2	40:DE:78:LEU:HD13	2.22	0.55
46:DN:120:LEU:HD13	46:DN:122:VAL:HG23	1.88	0.55
52:DT:78:LEU:O	52:DT:79:HIS:HD2	1.89	0.55
53:DU:108:GLU:OE2	54:DV:44:LYS:HB3	2.06	0.55
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.71	0.55
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.35	0.55
5:AE:78:HIS:O	5:AE:78:HIS:ND1	2.40	0.55
6:AF:53:ALA:HB3	6:AF:86:ARG:NH1	2.22	0.55
8:AH:21:LYS:O	8:AH:22:GLU:C	2.50	0.55
10:AJ:35:SER:OG	10:AJ:73:ASP:HB2	2.07	0.55
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.07	0.55
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.55	0.55
22:AV:1:G:H2'	22:AV:2:C:H6	1.72	0.55
25:AZ:244:ARG:HH11	25:AZ:244:ARG:CB	2.15	0.55
32:B6:42:TRP:O	32:B6:44:ARG:N	2.35	0.55
35:B9:35:ARG:HD3	36:BA:2742:C:OP1	2.07	0.55
35:B9:35:ARG:O	35:B9:35:ARG:HG2	2.07	0.55
36:BA:308:G:H2'	36:BA:309:G:C8	2.42	0.55
36:BA:329:G:OP1	57:BY:71:LYS:HD3	2.07	0.55
36:BA:1131:G:OP2	36:BA:2515:C:H4'	2.07	0.55
36:BA:1138:G:H1	36:BA:1143:A:H2	1.53	0.55
36:BA:1493:C:H4'	36:BA:1494:A:OP1	2.07	0.55
36:BA:2252:G:C2'	36:BA:2253:G:H5'	2.36	0.55
39:BD:73:VAL:O	39:BD:75:ILE:N	2.40	0.55
39:BD:75:ILE:HG22	39:BD:97:TYR:HD2	1.72	0.55
39:BD:77:ALA:HB2	39:BD:97:TYR:HA	1.88	0.55
42:BG:120:LEU:O	42:BG:121:ASN:C	2.50	0.55
45:BK:88:UNK:C	45:BK:90:UNK:N	2.69	0.55
46:BN:93:THR:O	46:BN:93:THR:HG23	2.06	0.55
46:BN:120:LEU:HD13	46:BN:122:VAL:HG23	1.89	0.55
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.22	0.55
49:BQ:140:ALA:HA	58:BZ:99:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:76:VAL:HB	55:BW:103:ILE:HG23	1.89	0.55
58:BZ:9:TYR:HE2	58:BZ:61:LEU:HD13	1.71	0.55
58:BZ:20:ARG:HG3	58:BZ:21:ALA:N	2.22	0.55
58:BZ:102:LEU:CD2	58:BZ:137:ILE:HB	2.37	0.55
1:CA:606:G:H21	1:CA:631:G:H2'	1.71	0.55
1:CA:946:A:C6	1:CA:947:G:C6	2.95	0.55
1:CA:1260:C:H6	1:CA:1260:C:H3'	1.72	0.55
1:CA:1477:C:H2'	1:CA:1478:C:H6	1.68	0.55
2:CB:58:ILE:O	2:CB:59:GLU:C	2.50	0.55
3:CC:118:GLN:O	3:CC:121:ALA:HB3	2.06	0.55
3:CC:121:ALA:HA	3:CC:124:ILE:HD12	1.89	0.55
4:CD:135:LEU:HD13	4:CD:135:LEU:N	2.21	0.55
7:CG:84:ASN:OD1	22:CW:33:U:C5'	2.54	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.22	0.55
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.16	0.55
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.37	0.55
17:CQ:90:ILE:O	17:CQ:93:GLN:N	2.40	0.55
25:CZ:26:THR:HG22	62:CZ:501:GDP:O2A	2.07	0.55
25:CZ:234:ARG:NE	25:CZ:289:LEU:HD22	2.22	0.55
31:D5:40:LYS:HZ3	31:D5:45:VAL:CA	2.20	0.55
32:D6:8:LYS:HA	32:D6:27:LYS:CD	2.36	0.55
35:D9:35:ARG:HD3	36:DA:2742:C:OP1	2.07	0.55
36:DA:19:C:O2'	36:DA:20:C:H5'	2.07	0.55
36:DA:90:U:H2'	36:DA:90:U:O2	2.06	0.55
36:DA:535:C:O2'	36:DA:536:A:H5'	2.06	0.55
36:DA:613:G:H5'	36:DA:613:G:H8	1.71	0.55
36:DA:718:A:C2'	36:DA:719:C:H5'	2.37	0.55
36:DA:1012:U:O4	46:DN:28:THR:HG21	2.07	0.55
36:DA:1064:C:H2'	36:DA:1065:U:H5''	1.88	0.55
36:DA:1215:G:H4'	53:DU:8:VAL:HG21	1.89	0.55
36:DA:1248:G:OP1	41:DF:92:PRO:HG3	2.07	0.55
36:DA:1775:U:H2'	36:DA:1776:G:O4'	2.07	0.55
36:DA:1903:G:OP2	39:DD:241:PRO:HB2	2.07	0.55
36:DA:1968:G:C2'	36:DA:1969:A:H5''	2.36	0.55
36:DA:2151:G:H2'	36:DA:2152:G:H8	1.70	0.55
36:DA:2303:G:H4'	42:DG:124:SER:O	2.06	0.55
36:DA:2441:C:H2'	36:DA:2442:C:C6	2.36	0.55
36:DA:2513:G:C2	36:DA:2514:U:C2	2.94	0.55
36:DA:2687:U:C4	36:DA:2688:U:C5	2.95	0.55
36:DA:2707:G:HO2'	36:DA:2708:G:H5'	1.70	0.55
39:DD:196:VAL:O	39:DD:196:VAL:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:66:GLY:HA2	43:DH:69:ARG:NE	2.22	0.55
46:DN:6:PRO:CB	46:DN:41:ASP:OD1	2.55	0.55
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.54	0.55
48:DP:85:LEU:CD1	48:DP:120:ALA:HB2	2.36	0.55
50:DR:24:GLN:C	50:DR:26:LYS:N	2.62	0.55
51:DS:96:GLY:O	51:DS:98:VAL:N	2.37	0.55
57:DY:95:LYS:HE3	57:DY:100:ALA:HB2	1.89	0.55
58:DZ:23:LYS:O	58:DZ:24:LEU:HB2	2.07	0.55
58:DZ:86:VAL:O	58:DZ:87:ASP:OD1	2.25	0.55
1:AA:156:G:H1'	1:AA:166:G:N2	2.23	0.54
1:AA:351:G:C4'	1:AA:352:C:OP1	2.54	0.54
1:AA:367:U:H4'	25:AZ:291:ARG:HD2	1.88	0.54
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.41	0.54
2:AB:89:GLY:O	2:AB:90:MET:HG2	2.06	0.54
3:AC:113:ALA:HB3	3:AC:185:GLY:N	2.22	0.54
4:AD:132:ARG:HH11	4:AD:132:ARG:HG2	1.70	0.54
6:AF:2:ARG:HG3	6:AF:69:GLU:OE1	2.07	0.54
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.70	0.54
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.72	0.54
24:AY:56:C:C1'	36:BA:1067:A:H1'	2.38	0.54
25:AZ:118:GLU:O	25:AZ:120:ILE:N	2.41	0.54
26:B0:24:LYS:HD2	36:BA:2355:C:H4'	1.89	0.54
27:B1:50:ARG:NH2	36:BA:2201:C:OP2	2.40	0.54
29:B3:23:LEU:C	29:B3:25:ALA:N	2.60	0.54
31:B5:2:ALA:N	36:BA:747:U:H3	2.04	0.54
36:BA:185:U:C2	36:BA:212:G:N2	2.75	0.54
36:BA:284:U:O5'	36:BA:284:U:H6	1.89	0.54
36:BA:320:A:C2	36:BA:323:G:N1	2.75	0.54
36:BA:631:A:C5'	48:BP:65:ARG:HG2	2.37	0.54
36:BA:823:G:N2	36:BA:2358:G:C8	2.75	0.54
36:BA:955:C:H2'	36:BA:956:G:H5'	1.89	0.54
36:BA:1154:G:H5''	53:BU:59:ARG:NH2	2.22	0.54
36:BA:1205:U:C5	41:BF:171:PRO:HA	2.41	0.54
36:BA:1278:A:H2'	36:BA:1279:G:C8	2.42	0.54
36:BA:1568:G:H4'	39:BD:59:LYS:CG	2.37	0.54
36:BA:2051:A:H5'	36:BA:2578:G:O4'	2.07	0.54
36:BA:2245:U:H5'	36:BA:2246:G:C5'	2.32	0.54
39:BD:80:ALA:HB3	39:BD:94:LEU:O	2.06	0.54
40:BE:147:PRO:HB2	40:BE:149:ARG:HG2	1.89	0.54
40:BE:165:VAL:HG11	40:BE:189:PRO:HB3	1.89	0.54
43:BH:66:GLY:HA2	43:BH:69:ARG:NE	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:117:UNK:O	45:BK:118:UNK:CB	2.54	0.54
47:BO:43:VAL:HG23	47:BO:56:ASP:O	2.06	0.54
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.14	0.54
51:BS:29:PHE:CE2	51:BS:31:SER:HB2	2.42	0.54
1:CA:612:C:H42	1:CA:628:G:H1	1.54	0.54
1:CA:1442(B):A:C2	52:DT:118:ARG:NH2	2.74	0.54
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.39	0.54
4:CD:186:LEU:O	4:CD:187:ARG:HB2	2.07	0.54
7:CG:69:VAL:HG23	7:CG:135:VAL:HA	1.90	0.54
12:CL:115:LYS:O	12:CL:117:ARG:N	2.40	0.54
13:CM:91:ARG:O	13:CM:95:GLY:N	2.40	0.54
14:CN:7:ILE:HG13	14:CN:8:GLU:N	2.22	0.54
19:CS:18:LYS:HG3	19:CS:18:LYS:O	2.07	0.54
24:CY:68:U:H2'	24:CY:69:C:C6	2.41	0.54
28:D2:33:MET:HG3	28:D2:37:PHE:CE1	2.42	0.54
30:D4:25:TYR:N	30:D4:25:TYR:CD1	2.75	0.54
33:D7:11:LYS:O	33:D7:14:LYS:N	2.39	0.54
36:DA:18:C:O3'	53:DU:23:GLY:HA2	2.07	0.54
36:DA:242:G:N2	36:DA:254:G:H2'	2.21	0.54
36:DA:272:G:H1	36:DA:404:C:H42	1.54	0.54
36:DA:333:G:H2'	36:DA:333:G:N3	2.22	0.54
36:DA:812:C:H2'	36:DA:813:U:H6	1.72	0.54
36:DA:1087:G:C2'	36:DA:1088:A:H4'	2.31	0.54
36:DA:1446:C:H42	36:DA:1465:G:H1	1.54	0.54
36:DA:1551:C:C2'	36:DA:1552:G:H5'	2.37	0.54
36:DA:1601:G:O2'	36:DA:1602:U:H5'	2.06	0.54
36:DA:2154:G:H8	36:DA:2154:G:O5'	1.90	0.54
36:DA:2290:G:C2	36:DA:2343:C:O2	2.60	0.54
40:DE:119:ARG:NH1	40:DE:158:GLY:HA3	2.21	0.54
41:DF:118:ALA:O	41:DF:120:GLU:N	2.40	0.54
42:DG:122:PRO:HB3	42:DG:182:LYS:H	1.70	0.54
43:DH:114:VAL:O	43:DH:114:VAL:HG23	2.07	0.54
46:DN:46:VAL:HG13	46:DN:48:MET:H	1.72	0.54
49:DQ:120:ILE:HG22	49:DQ:124:LYS:HE2	1.88	0.54
50:DR:87:TYR:O	50:DR:89:ASP:N	2.39	0.54
51:DS:29:PHE:CD2	51:DS:29:PHE:C	2.84	0.54
52:DT:1:MET:O	52:DT:1:MET:HG3	2.08	0.54
58:DZ:18:LEU:N	58:DZ:18:LEU:HD13	2.21	0.54
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG12	1.89	0.54
1:AA:863:U:H2'	1:AA:864:A:H5''	1.89	0.54
1:AA:973:G:C6	1:AA:974:A:N6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.06	0.54
1:AA:1348:U:H4'	9:AI:120:ARG:CD	2.36	0.54
4:AD:73:ARG:O	4:AD:77:ASN:HB2	2.07	0.54
8:AH:94:TYR:N	8:AH:94:TYR:HD1	2.04	0.54
12:AL:84:LEU:HD12	12:AL:104:VAL:HG11	1.89	0.54
12:AL:86:ARG:CG	12:AL:87:GLY:N	2.70	0.54
18:AR:32:ARG:O	18:AR:69:THR:HG21	2.07	0.54
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.07	0.54
22:AV:7:A:N6	22:AV:49:C:N4	2.55	0.54
22:AW:18:G:H1	22:AW:55:U:H1'	1.72	0.54
25:AZ:19:HIS:HA	25:AZ:115:GLN:CB	2.37	0.54
25:AZ:38:GLU:HB2	25:AZ:189:ARG:NH1	2.22	0.54
28:B2:17:SER:CB	28:B2:20:GLU:HB3	2.36	0.54
28:B2:33:MET:O	28:B2:34:GLU:C	2.49	0.54
29:B3:31:LEU:HD23	29:B3:32:GLN:H	1.72	0.54
35:B9:25:VAL:O	35:B9:25:VAL:HG12	2.07	0.54
36:BA:479:A:O2'	36:BA:481:G:H8	1.90	0.54
36:BA:528:A:C2	36:BA:2043:C:H4'	2.42	0.54
36:BA:819:A:N6	36:BA:1189:A:H1'	2.22	0.54
36:BA:977:G:O2'	36:BA:978:G:H5'	2.07	0.54
36:BA:1150:C:O2'	36:BA:1151:G:H5'	2.07	0.54
36:BA:1288:U:C2	36:BA:1327:C:O2	2.60	0.54
36:BA:1504:C:O2'	36:BA:1505:C:C5'	2.56	0.54
36:BA:1812:A:C1'	39:BD:46:GLN:HE22	2.20	0.54
36:BA:2084:C:H2'	36:BA:2085:C:C6	2.42	0.54
36:BA:2312:U:H5''	42:BG:74:LYS:HZ2	1.72	0.54
36:BA:2316:C:H2'	36:BA:2317:C:C6	2.42	0.54
37:BB:2:C:H2'	37:BB:3:C:C6	2.42	0.54
37:BB:70:C:H2'	37:BB:71:C:H6	1.72	0.54
38:BC:75:LEU:HD11	38:BC:113:VAL:HA	1.89	0.54
39:BD:81:ALA:HA	39:BD:113:VAL:HG21	1.88	0.54
41:BF:168:ARG:CG	41:BF:169:ASN:H	2.19	0.54
42:BG:9:ARG:O	42:BG:11:TYR:N	2.40	0.54
42:BG:110:ALA:HB1	42:BG:140:ILE:HD13	1.88	0.54
43:BH:130:ARG:HB3	43:BH:130:ARG:CZ	2.37	0.54
45:BK:98:UNK:HA	45:BK:135:UNK:CB	2.37	0.54
46:BN:61:ARG:HG3	46:BN:61:ARG:NH1	2.22	0.54
49:BQ:35:VAL:HG22	49:BQ:36:ALA:N	2.22	0.54
1:CA:790:A:H2'	1:CA:791:G:C8	2.42	0.54
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.54
1:CA:1316:G:H4'	14:CN:18:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.88	0.54
1:CA:1524:C:H2'	1:CA:1525:G:O4'	2.07	0.54
2:CB:32:ILE:HG12	2:CB:33:TYR:H	1.72	0.54
4:CD:96:LEU:HG	4:CD:139:ARG:NH2	2.22	0.54
5:CE:12:LEU:O	5:CE:12:LEU:HD13	2.06	0.54
5:CE:20:GLN:NE2	5:CE:25:ARG:CZ	2.70	0.54
6:CF:2:ARG:CD	6:CF:69:GLU:HB3	2.37	0.54
7:CG:44:TYR:HE1	9:CI:41:VAL:HG11	1.72	0.54
8:CH:36:LEU:O	8:CH:38:ILE:N	2.40	0.54
9:CI:82:ALA:HA	9:CI:85:LEU:HD11	1.89	0.54
13:CM:19:LEU:HD12	13:CM:25:ILE:CD1	2.37	0.54
13:CM:32:GLU:C	13:CM:34:LEU:H	2.15	0.54
19:CS:6:LYS:HD2	19:CS:6:LYS:N	2.16	0.54
20:CT:88:VAL:O	20:CT:91:LEU:HB2	2.06	0.54
25:CZ:72:THR:CG2	25:CZ:203:LEU:HD23	2.29	0.54
25:CZ:249:VAL:HG13	25:CZ:268:THR:HA	1.89	0.54
25:CZ:389:ARG:CA	25:CZ:395:VAL:HG13	2.35	0.54
26:D0:58:THR:HG22	26:D0:59:LEU:N	2.22	0.54
35:D9:31:LYS:C	35:D9:32:HIS:HD2	2.16	0.54
36:DA:61:G:H8	36:DA:61:G:O5'	1.90	0.54
36:DA:85:G:O5'	57:DY:30:VAL:HB	2.08	0.54
36:DA:237:C:N3	36:DA:261:G:C2	2.74	0.54
36:DA:532:A:C5'	53:DU:28:ARG:HH12	2.21	0.54
36:DA:536:A:P	53:DU:53:ARG:HH11	2.29	0.54
36:DA:709:U:H3	36:DA:722:A:H61	1.55	0.54
36:DA:843:G:O2'	36:DA:844:C:H5'	2.08	0.54
36:DA:996:A:H4'	53:DU:92:ARG:CG	2.36	0.54
36:DA:1170:G:OP2	36:DA:1170:G:H8	1.90	0.54
36:DA:1853:A:H1'	36:DA:2233:U:O2'	2.08	0.54
36:DA:2252:G:O2'	36:DA:2253:G:H5'	2.06	0.54
36:DA:2282:G:H4'	36:DA:2283:C:O5'	2.06	0.54
36:DA:2364:C:H2'	36:DA:2365:G:O4'	2.07	0.54
36:DA:2450:A:O2'	36:DA:2451:A:H5'	2.08	0.54
36:DA:2547:U:O2	47:DO:23:ARG:NH1	2.40	0.54
36:DA:2631:G:H22	40:DE:61:ARG:NH1	2.02	0.54
41:DF:3:GLU:HA	41:DF:24:LEU:HB2	1.87	0.54
41:DF:206:ILE:HG22	41:DF:207:GLY:N	2.13	0.54
42:DG:143:GLU:O	42:DG:144:ILE:C	2.48	0.54
43:DH:40:GLU:HB2	43:DH:64:LEU:CD1	2.36	0.54
43:DH:118:PRO:CG	43:DH:121:ILE:HB	2.35	0.54
43:DH:127:GLU:HB2	43:DH:130:ARG:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:16:ILE:HD12	46:DN:139:GLU:N	2.22	0.54
48:DP:113:LYS:HA	48:DP:129:ALA:O	2.07	0.54
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.85	0.54
52:DT:107:ASP:OD1	52:DT:109:GLU:HB2	2.06	0.54
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	2.07	0.54
54:DV:71:LEU:HD21	54:DV:84:LYS:HE2	1.89	0.54
57:DY:75:ILE:HG13	57:DY:76:CYS:H	1.73	0.54
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.89	0.54
1:AA:780:A:H2	1:AA:802:A:N7	2.05	0.54
1:AA:868:C:H2'	1:AA:869:G:O4'	2.07	0.54
1:AA:1060:C:C5'	10:AJ:51:ARG:HB3	2.36	0.54
2:AB:121:LEU:HD23	2:AB:121:LEU:C	2.32	0.54
3:AC:48:TYR:C	3:AC:50:ALA:N	2.65	0.54
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.73	0.54
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.32	0.54
5:AE:135:THR:O	5:AE:136:MET:C	2.50	0.54
8:AH:11:THR:O	8:AH:15:ASN:ND2	2.40	0.54
8:AH:40:ALA:HB2	8:AH:45:ILE:HG13	1.88	0.54
11:AK:77:MET:O	11:AK:78:GLN:HG2	2.07	0.54
13:AM:77:ASN:O	13:AM:80:ARG:HB3	2.08	0.54
27:B1:26:ARG:O	27:B1:27:GLU:O	2.24	0.54
28:B2:37:PHE:CE2	56:BX:8:ILE:O	2.60	0.54
28:B2:60:LEU:O	28:B2:63:VAL:HB	2.06	0.54
31:B5:16:ARG:HH11	31:B5:20:ARG:NH1	2.03	0.54
34:B8:32:LEU:HD12	36:BA:2391:G:OP1	2.07	0.54
34:B8:53:PRO:HA	34:B8:56:GLU:OE1	2.07	0.54
36:BA:438:G:H2'	36:BA:440:G:H8	1.71	0.54
36:BA:1370:C:H2'	36:BA:1371:G:O4'	2.08	0.54
36:BA:1637:A:H2'	36:BA:1638:C:O4'	2.08	0.54
36:BA:2063:C:O2	36:BA:2450:A:N1	2.41	0.54
36:BA:2068:U:C2	36:BA:2430:A:H2	2.24	0.54
36:BA:2389:G:C5'	36:BA:2390:U:H5'	2.35	0.54
38:BC:120:MET:O	38:BC:121:GLY:C	2.49	0.54
39:BD:39:LYS:HB2	39:BD:62:TYR:HB2	1.88	0.54
40:BE:38:THR:HG23	40:BE:39:PRO:HD2	1.90	0.54
41:BF:32:LEU:HD22	41:BF:109:GLY:HA3	1.90	0.54
41:BF:62:ARG:HH11	41:BF:62:ARG:HG2	1.73	0.54
41:BF:154:VAL:HG22	41:BF:191:ARG:HB3	1.89	0.54
42:BG:13:GLU:O	42:BG:17:PRO:HG3	2.08	0.54
42:BG:39:ILE:HA	42:BG:156:ASP:O	2.08	0.54
42:BG:47:LYS:HZ2	42:BG:81:LYS:HG3	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:85:LYS:HE3	43:BH:87:LEU:HG	1.88	0.54
43:BH:137:ASP:OD1	43:BH:138:LYS:N	2.40	0.54
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.07	0.54
1:CA:52:G:O2'	1:CA:53:A:H5'	2.07	0.54
1:CA:292:G:H1	1:CA:308:C:H42	1.54	0.54
1:CA:445:G:H2'	1:CA:446:G:H8	1.71	0.54
1:CA:828:A:H4'	1:CA:828:A:OP1	2.07	0.54
1:CA:939:G:H1	1:CA:1344:C:H42	1.55	0.54
1:CA:1051:C:O2'	1:CA:1052:U:H5'	2.07	0.54
1:CA:1087:G:H2'	1:CA:1088:G:H8	1.72	0.54
2:CB:26:PRO:C	2:CB:28:PHE:H	2.15	0.54
3:CC:13:GLY:C	3:CC:14:ILE:HG22	2.32	0.54
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.43	0.54
4:CD:165:MET:O	4:CD:166:LYS:C	2.49	0.54
5:CE:79:GLU:HA	5:CE:92:LYS:HA	1.89	0.54
6:CF:24:GLU:HA	6:CF:27:GLN:HG2	1.88	0.54
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.18	0.54
13:CM:30:ALA:C	13:CM:32:GLU:N	2.57	0.54
13:CM:32:GLU:C	13:CM:34:LEU:N	2.62	0.54
13:CM:112:GLY:O	13:CM:113:PRO:C	2.51	0.54
19:CS:10:PHE:CE1	19:CS:70:LYS:HD2	2.43	0.54
22:CW:76:A:N6	36:DA:2421:G:H2'	2.22	0.54
26:D0:10:THR:HG22	26:D0:12:ASN:H	1.71	0.54
30:D4:19:GLY:O	30:D4:20:ASN:C	2.49	0.54
31:D5:6:VAL:HG22	36:DA:2016:U:H1'	1.89	0.54
32:D6:48:VAL:O	32:D6:49:HIS:CG	2.61	0.54
33:D7:22:MET:O	33:D7:28:ARG:NH1	2.41	0.54
36:DA:553:G:O2'	36:DA:554:U:H5'	2.07	0.54
36:DA:738:G:C2'	36:DA:739:G:H5'	2.36	0.54
36:DA:1012:U:C4	46:DN:28:THR:HG21	2.42	0.54
36:DA:1252:G:O4'	53:DU:33:ARG:HD3	2.07	0.54
36:DA:1901:A:C2'	36:DA:1902:C:H5'	2.38	0.54
36:DA:2076:U:H6	36:DA:2076:U:OP1	1.90	0.54
36:DA:2092:U:C4'	36:DA:2093:G:H5''	2.36	0.54
36:DA:2190:G:N3	36:DA:2190:G:H2'	2.22	0.54
36:DA:2221:G:C6	36:DA:2222:G:C6	2.95	0.54
36:DA:2297:C:C2'	36:DA:2298:A:H5'	2.37	0.54
36:DA:2339:G:H2'	36:DA:2340:G:H8	1.72	0.54
36:DA:2760:C:C3'	36:DA:2761:G:H5''	2.37	0.54
38:DC:6:ARG:NH1	38:DC:6:ARG:O	2.40	0.54
38:DC:103:ILE:HG23	38:DC:107:TRP:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:209:ALA:C	39:DD:210:GLY:O	2.46	0.54
40:DE:147:PRO:HB2	40:DE:149:ARG:HG2	1.89	0.54
42:DG:10:LYS:HG3	42:DG:14:GLU:OE2	2.06	0.54
42:DG:111:LEU:HB2	42:DG:112:PRO:HD3	1.89	0.54
43:DH:93:GLY:C	43:DH:94:TYR:HD1	2.15	0.54
46:DN:46:VAL:O	46:DN:47:ALA:HB3	2.06	0.54
47:DO:50:GLY:C	47:DO:52:VAL:H	2.15	0.54
48:DP:143:GLY:C	48:DP:145:PRO:HD3	2.33	0.54
49:DQ:19:GLY:O	49:DQ:20:ALA:HB3	2.07	0.54
51:DS:90:GLY:O	51:DS:92:TYR:HD1	1.90	0.54
55:DW:96:ILE:O	55:DW:96:ILE:HG23	2.07	0.54
57:DY:76:CYS:O	57:DY:77:PRO:C	2.50	0.54
1:AA:115:G:H4'	1:AA:116:A:O5'	2.08	0.54
1:AA:633:G:C5	1:AA:634:C:C5	2.96	0.54
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.34	0.54
1:AA:1325:C:H5''	21:AU:15:ARG:NH2	2.23	0.54
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.07	0.54
1:AA:1485:U:O2	1:AA:1485:U:C2'	2.55	0.54
4:AD:157:LEU:O	4:AD:161:ASN:ND2	2.41	0.54
5:AE:53:LEU:O	5:AE:54:ALA:C	2.51	0.54
8:AH:119:LEU:HD12	8:AH:124:ALA:HA	1.90	0.54
9:AI:95:LYS:C	9:AI:98:PRO:HD2	2.32	0.54
11:AK:92:GLU:OE2	11:AK:95:ILE:HD12	2.07	0.54
13:AM:32:GLU:C	13:AM:34:LEU:N	2.58	0.54
19:AS:27:GLU:O	19:AS:28:LYS:O	2.24	0.54
25:AZ:221:PHE:CE1	25:AZ:247:VAL:HG13	2.42	0.54
25:AZ:222:LEU:HD23	25:AZ:244:ARG:HH21	1.73	0.54
26:B0:32:ARG:HA	26:B0:64:ASP:HB3	1.89	0.54
26:B0:55:ARG:HH21	36:BA:2386:C:H5''	1.72	0.54
29:B3:19:GLN:C	29:B3:21:ALA:H	2.16	0.54
30:B4:42:PHE:O	30:B4:43:TYR:O	2.25	0.54
36:BA:233:A:H2'	36:BA:234:C:O4'	2.08	0.54
36:BA:712:G:H1	36:BA:719:C:H42	1.56	0.54
36:BA:966:G:H1'	36:BA:2267:A:N6	2.23	0.54
36:BA:1130:U:C2	36:BA:2025:C:H5''	2.43	0.54
36:BA:1901:A:C2'	36:BA:1902:C:H5'	2.37	0.54
36:BA:2041:U:H6	36:BA:2041:U:OP2	1.90	0.54
36:BA:2189:U:C2'	36:BA:2190:G:H4'	2.37	0.54
36:BA:2199:A:H3'	36:BA:2200:C:C6	2.43	0.54
36:BA:2284:C:H1'	36:BA:2325:G:N2	2.23	0.54
36:BA:2317:C:O2'	36:BA:2318:G:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2846:G:H2'	36:BA:2847:U:O4'	2.06	0.54
36:BA:2880:C:H3'	36:BA:2880:C:H6	1.73	0.54
37:BB:69:G:H2'	37:BB:69:G:N3	2.22	0.54
38:BC:74:VAL:HG11	38:BC:153:ILE:HG23	1.88	0.54
40:BE:167:VAL:O	40:BE:168:MET:O	2.25	0.54
42:BG:9:ARG:C	42:BG:11:TYR:N	2.65	0.54
47:BO:105:GLU:O	47:BO:109:LYS:CG	2.55	0.54
49:BQ:22:LYS:HG3	49:BQ:22:LYS:O	2.06	0.54
49:BQ:45:GLN:H	49:BQ:45:GLN:CD	2.13	0.54
50:BR:13:HIS:CE1	50:BR:16:HIS:N	2.73	0.54
50:BR:28:LEU:CB	50:BR:34:ILE:HG13	2.38	0.54
51:BS:106:ARG:HH11	51:BS:106:ARG:HB3	1.72	0.54
52:BT:92:GLY:C	52:BT:94:ALA:N	2.62	0.54
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ3	1.69	0.54
1:CA:54:C:H2'	1:CA:352:C:H42	1.70	0.54
1:CA:666:G:C5	1:CA:741:G:C6	2.94	0.54
1:CA:851:G:O2'	1:CA:852:G:H5'	2.08	0.54
1:CA:1054:C:O2	1:CA:1054:C:C3'	2.56	0.54
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.43	0.54
1:CA:1234:C:O2'	1:CA:1235:U:H5'	2.05	0.54
1:CA:1255:G:O2'	1:CA:1258:G:H1'	2.08	0.54
1:CA:1260:C:H3'	1:CA:1260:C:C6	2.43	0.54
2:CB:16:HIS:HB3	2:CB:210:SER:CA	2.37	0.54
2:CB:155:LEU:HD11	2:CB:158:LEU:HA	1.88	0.54
6:CF:10:LEU:HD13	6:CF:59:TYR:HD2	1.72	0.54
8:CH:89:PRO:HA	8:CH:92:ARG:CD	2.38	0.54
13:CM:57:ARG:C	13:CM:59:TYR:N	2.64	0.54
13:CM:90:LEU:HA	13:CM:93:ARG:HB2	1.90	0.54
13:CM:108:ARG:HH11	13:CM:108:ARG:CG	2.20	0.54
14:CN:7:ILE:CG1	14:CN:8:GLU:N	2.71	0.54
17:CQ:90:ILE:O	17:CQ:91:ARG:C	2.50	0.54
20:CT:48:LYS:HB3	20:CT:51:GLU:HG3	1.89	0.54
24:CY:36:U:O2'	24:CY:37:YG:H5''	2.08	0.54
29:D3:7:LYS:N	29:D3:54:VAL:HG13	2.22	0.54
32:D6:8:LYS:HD3	32:D6:27:LYS:HD3	1.89	0.54
32:D6:18:ARG:HE	32:D6:43:CYS:HB3	1.73	0.54
34:D8:53:PRO:HA	34:D8:56:GLU:OE1	2.07	0.54
35:D9:19:ARG:NH1	36:DA:2755:C:C4	2.75	0.54
36:DA:485:C:H2'	36:DA:486:C:C6	2.42	0.54
36:DA:573:G:H5'	36:DA:575:A:N7	2.22	0.54
36:DA:629:G:H2'	36:DA:630:G:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:851:U:O2'	36:DA:852:G:H5'	2.06	0.54
36:DA:942:G:H5'	48:DP:35:HIS:C	2.33	0.54
36:DA:1061:U:H4'	36:DA:1070:A:C4'	2.37	0.54
36:DA:1190:G:C5'	48:DP:35:HIS:H	2.20	0.54
36:DA:1299:G:H4'	36:DA:1301:A:C4	2.41	0.54
36:DA:1336:A:H2'	36:DA:1337:G:H8	1.71	0.54
36:DA:1342:A:N1	36:DA:1345:C:C4	2.76	0.54
36:DA:1600:C:OP1	56:DX:58:HIS:NE2	2.41	0.54
36:DA:1665:A:C3'	36:DA:1666:G:C5'	2.86	0.54
36:DA:1758:G:N7	36:DA:2695:C:H4'	2.22	0.54
36:DA:1853:A:N6	36:DA:1889:A:C8	2.76	0.54
36:DA:1966:A:H2	36:DA:2592:G:N3	2.05	0.54
36:DA:2140:C:H2'	36:DA:2141:G:H8	1.72	0.54
36:DA:2389:G:H5''	36:DA:2390:U:C5'	2.34	0.54
36:DA:2550:G:C2'	36:DA:2551:C:H5'	2.37	0.54
36:DA:2721:A:H2'	36:DA:2722:G:O4'	2.08	0.54
36:DA:2801(A):A:H5'	36:DA:2802:G:H8	1.71	0.54
38:DC:183:GLU:CD	38:DC:183:GLU:N	2.66	0.54
39:DD:14:ARG:HG3	39:DD:15:PHE:N	2.22	0.54
39:DD:39:LYS:HB3	39:DD:60:ARG:O	2.08	0.54
42:DG:11:TYR:HD1	42:DG:15:VAL:HG21	1.71	0.54
42:DG:61:ALA:O	42:DG:65:GLY:N	2.36	0.54
42:DG:112:PRO:C	42:DG:114:ILE:N	2.63	0.54
43:DH:26:VAL:HG11	43:DH:75:ALA:O	2.07	0.54
48:DP:88:LEU:HD13	48:DP:100:LEU:HD21	1.90	0.54
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.51	0.54
53:DU:10:ARG:O	53:DU:13:LYS:N	2.40	0.54
58:DZ:50:GLN:O	58:DZ:51:ALA:C	2.50	0.54
1:AA:44:G:C6	1:AA:45:U:C2	2.96	0.54
1:AA:125:U:H2'	1:AA:126:G:H8	1.71	0.54
1:AA:198:G:HO2'	1:AA:199:G:H8	1.55	0.54
1:AA:328:C:H4'	1:AA:329:A:C5'	2.37	0.54
1:AA:335:C:O2'	1:AA:1433:A:N3	2.28	0.54
1:AA:370:C:H2'	1:AA:371:G:H8	1.72	0.54
1:AA:503:C:H2'	1:AA:504:C:C6	2.43	0.54
1:AA:506:G:H2'	1:AA:507:C:H6	1.70	0.54
1:AA:1442(B):A:C2	52:BT:118:ARG:CZ	2.90	0.54
2:AB:43:ASP:OD1	2:AB:45:GLN:HB3	2.08	0.54
2:AB:87:ARG:HH21	2:AB:233:SER:CB	2.21	0.54
2:AB:173:ALA:O	2:AB:174:VAL:C	2.50	0.54
2:AB:219:VAL:O	2:AB:222:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:90:GLU:O	3:AC:93:LYS:HB3	2.08	0.54
4:AD:129:ASN:HD22	4:AD:129:ASN:N	1.90	0.54
5:AE:31:LEU:HD23	5:AE:45:PHE:HB2	1.90	0.54
5:AE:57:LYS:O	5:AE:58:ALA:C	2.50	0.54
6:AF:28:ARG:HG3	6:AF:28:ARG:HH11	1.72	0.54
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.36	0.54
8:AH:49:GLU:O	8:AH:51:VAL:HG13	2.07	0.54
12:AL:28:LYS:O	12:AL:30:ALA:N	2.40	0.54
12:AL:60:LEU:N	12:AL:60:LEU:HD22	2.22	0.54
13:AM:70:LEU:C	13:AM:70:LEU:CD2	2.80	0.54
25:AZ:221:PHE:CE1	25:AZ:247:VAL:HG22	2.43	0.54
25:AZ:249:VAL:HG13	25:AZ:268:THR:HA	1.89	0.54
28:B2:10:LEU:HD11	36:BA:77:C:H5'	1.89	0.54
28:B2:21:LEU:HB3	28:B2:64:LEU:HG	1.89	0.54
28:B2:21:LEU:O	28:B2:24:LEU:HB3	2.08	0.54
31:B5:52:TYR:CD1	31:B5:52:TYR:O	2.60	0.54
32:B6:15:GLU:CD	32:B6:18:ARG:NH2	2.65	0.54
35:B9:13:LYS:O	35:B9:27:CYS:HA	2.07	0.54
35:B9:36:GLN:HG2	36:BA:1124:C:O2'	2.07	0.54
36:BA:483:A:H1'	57:BY:60:PHE:HE1	1.66	0.54
36:BA:566:U:O4	54:BV:78:LYS:HE2	2.08	0.54
36:BA:594:U:H3	36:BA:663:G:H1	1.56	0.54
36:BA:753:C:O2'	36:BA:754:C:H5'	2.07	0.54
36:BA:826:U:H2'	36:BA:828:U:O4'	2.08	0.54
36:BA:1183:G:H2'	36:BA:1184:G:C8	2.42	0.54
36:BA:1355:G:O6	36:BA:1377:G:N2	2.40	0.54
36:BA:1674:G:H1'	36:BA:1676:A:H62	1.72	0.54
36:BA:2569:G:O2'	36:BA:2570:G:H5'	2.07	0.54
36:BA:2721:A:H2'	36:BA:2722:G:O4'	2.08	0.54
38:BC:70:LYS:HD2	38:BC:177:LYS:HZ3	1.73	0.54
39:BD:142:VAL:HG22	39:BD:143:HIS:N	2.22	0.54
41:BF:157:VAL:HG22	41:BF:194:MET:HA	1.89	0.54
41:BF:158:THR:HB	41:BF:195:ASP:HB3	1.87	0.54
46:BN:4:TYR:N	46:BN:4:TYR:CD1	2.74	0.54
46:BN:101:HIS:C	46:BN:103:VAL:N	2.61	0.54
47:BO:47:ILE:CG2	47:BO:48:PRO:HD2	2.33	0.54
49:BQ:109:VAL:CG1	49:BQ:110:THR:N	2.70	0.54
49:BQ:113:GLN:O	49:BQ:117:ALA:N	2.40	0.54
51:BS:67:ARG:HB2	51:BS:71:ARG:HH11	1.73	0.54
52:BT:103:ARG:O	52:BT:105:LEU:N	2.40	0.54
54:BV:52:VAL:HG13	54:BV:55:ALA:CB	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:71:VAL:C	55:BW:73:ALA:H	2.13	0.54
57:BY:41:GLY:O	57:BY:42:VAL:O	2.24	0.54
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.89	0.54
3:CC:11:ARG:HG2	3:CC:11:ARG:HH11	1.72	0.54
5:CE:105:VAL:N	5:CE:106:PRO:CD	2.70	0.54
8:CH:34:GLU:O	8:CH:35:ILE:C	2.49	0.54
8:CH:49:GLU:O	8:CH:51:VAL:HG13	2.07	0.54
10:CJ:40:LEU:HG	10:CJ:69:ASN:HB3	1.89	0.54
18:CR:55:ARG:HG3	18:CR:55:ARG:HH11	1.72	0.54
20:CT:12:ALA:O	20:CT:15:ARG:HB2	2.08	0.54
22:CV:7:A:N6	22:CV:49:C:N4	2.56	0.54
25:CZ:136:ASN:CG	25:CZ:137:LYS:N	2.66	0.54
27:D1:5:CYS:HB3	27:D1:9:GLY:H	1.73	0.54
27:D1:86:SER:O	27:D1:90:ILE:HG12	2.08	0.54
33:D7:25:PRO:N	33:D7:28:ARG:HH21	2.05	0.54
35:D9:35:ARG:O	35:D9:35:ARG:HG2	2.07	0.54
36:DA:41:C:H2'	36:DA:42:G:O4'	2.07	0.54
36:DA:245:G:H22	36:DA:254:G:H1'	1.71	0.54
36:DA:826:U:H2'	36:DA:828:U:O4'	2.07	0.54
36:DA:873:G:O2'	36:DA:874:G:H5'	2.08	0.54
36:DA:1103:A:H5'	36:DA:1104:C:OP2	2.07	0.54
36:DA:1201:C:N3	36:DA:1245:G:C2	2.75	0.54
36:DA:1453:U:H5'	50:DR:63:ARG:NE	2.22	0.54
36:DA:1473:G:O6	36:DA:1519:G:N2	2.40	0.54
36:DA:1517:G:C6	36:DA:1518:U:C4	2.96	0.54
36:DA:1791:A:O3'	39:DD:206:LEU:HB2	2.07	0.54
36:DA:2015:A:O2'	36:DA:2016:U:H5'	2.08	0.54
36:DA:2149:G:H2'	36:DA:2150:U:O4'	2.08	0.54
36:DA:2787:C:H1'	40:DE:61:ARG:HG3	1.89	0.54
36:DA:2893:G:C5'	36:DA:2894:G:H5'	2.35	0.54
38:DC:74:VAL:HG11	38:DC:153:ILE:HG23	1.89	0.54
39:DD:75:ILE:HG22	39:DD:97:TYR:HD2	1.72	0.54
40:DE:52:LEU:HD12	40:DE:53:PRO:HD2	1.89	0.54
41:DF:40:GLN:HE22	41:DF:184:TYR:HB3	1.73	0.54
41:DF:110:LEU:CD1	41:DF:111:ALA:N	2.71	0.54
42:DG:11:TYR:O	42:DG:15:VAL:HG23	2.08	0.54
42:DG:28:VAL:HG12	42:DG:28:VAL:O	2.07	0.54
43:DH:12:PRO:HA	43:DH:48:GLY:HA2	1.90	0.54
43:DH:167:GLU:HG2	43:DH:168:PRO:HD2	1.89	0.54
46:DN:103:VAL:O	46:DN:104:LYS:C	2.50	0.54
48:DP:106:LEU:HD11	48:DP:112:LEU:HD23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:42:ALA:O	53:DU:43:GLY:C	2.50	0.54
54:DV:26:ASP:O	54:DV:27:ALA:HB2	2.08	0.54
57:DY:98:VAL:O	57:DY:98:VAL:HG12	2.06	0.54
1:AA:37:U:O2'	1:AA:500:G:H4'	2.08	0.54
1:AA:773:G:H1	1:AA:806:C:H42	1.55	0.54
1:AA:859:A:H2	8:AH:19:VAL:HG11	1.72	0.54
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.08	0.54
1:AA:1434:A:H3'	1:AA:1435:G:H8	1.73	0.54
3:AC:95:THR:O	3:AC:97:LYS:N	2.40	0.54
7:AG:69:VAL:HG23	7:AG:135:VAL:HA	1.89	0.54
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.50	0.54
19:AS:62:ILE:CD1	19:AS:66:MET:HE2	2.36	0.54
19:AS:66:MET:HG3	19:AS:66:MET:O	2.06	0.54
22:AW:38:A:C3'	22:AW:39:U:H5''	2.34	0.54
24:AY:37:YG:O2'	24:AY:38:A:H5'	2.07	0.54
25:AZ:143:ASP:OD1	25:AZ:146:LEU:HB2	2.07	0.54
26:B0:39:ARG:NH1	26:B0:56:ASP:OD2	2.40	0.54
27:B1:23:LYS:O	27:B1:32:LYS:HG3	2.08	0.54
27:B1:26:ARG:HG3	27:B1:27:GLU:N	2.22	0.54
28:B2:53:LEU:HD23	28:B2:57:ILE:HD11	1.90	0.54
30:B4:9:LEU:CD1	30:B4:10:VAL:H	2.19	0.54
31:B5:56:LYS:O	31:B5:57:VAL:C	2.50	0.54
34:B8:61:LEU:HD12	34:B8:62:LEU:N	2.23	0.54
35:B9:7:VAL:CG2	35:B9:36:GLN:HB2	2.38	0.54
36:BA:271(P):C:H2'	36:BA:271(Q):G:C5'	2.29	0.54
36:BA:378:C:H2'	36:BA:379:G:H8	1.71	0.54
36:BA:416:C:H2'	36:BA:417:C:H5'	1.90	0.54
36:BA:473:G:O2'	36:BA:474:G:H5'	2.07	0.54
36:BA:956:G:H4'	49:BQ:83:MET:HE1	1.88	0.54
36:BA:1087:G:C2'	36:BA:1088:A:H4'	2.32	0.54
36:BA:1833:U:O2	36:BA:1969:A:H2	1.90	0.54
36:BA:1856:G:C2'	36:BA:1857:G:H5'	2.38	0.54
36:BA:2729:G:H21	40:BE:167:VAL:HG23	1.71	0.54
43:BH:88:LEU:N	43:BH:88:LEU:HD22	2.22	0.54
46:BN:33:LEU:O	46:BN:52:VAL:HG21	2.07	0.54
49:BQ:43:THR:CB	49:BQ:45:GLN:NE2	2.69	0.54
51:BS:61:ASN:O	51:BS:65:VAL:HG21	2.08	0.54
52:BT:13:ARG:HH22	52:BT:15:VAL:HG11	1.72	0.54
58:BZ:58:VAL:HG12	58:BZ:59:LEU:N	2.22	0.54
58:BZ:163:LEU:HD11	58:BZ:165:VAL:CG2	2.37	0.54
1:CA:132:C:N3	1:CA:231:G:C2	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:202:U:O2'	1:CA:203:U:P	2.66	0.54
1:CA:577:G:H1'	1:CA:816:A:N3	2.22	0.54
1:CA:722:A:O2'	1:CA:723:U:H3'	2.07	0.54
1:CA:960:U:O2'	1:CA:1223:C:H5'	2.08	0.54
1:CA:1469:G:N2	1:CA:1470:G:C4	2.75	0.54
7:CG:51:GLN:HA	7:CG:51:GLN:OE1	2.08	0.54
20:CT:45:GLN:CB	20:CT:91:LEU:HD13	2.38	0.54
25:CZ:195:TRP:CD1	25:CZ:195:TRP:H	2.24	0.54
25:CZ:355:LEU:C	25:CZ:359:VAL:HG21	2.31	0.54
27:D1:11:ARG:NH2	36:DA:1365:A:O2'	2.39	0.54
28:D2:52:ASP:O	28:D2:56:GLN:HG2	2.08	0.54
29:D3:31:LEU:HD23	29:D3:32:GLN:H	1.72	0.54
30:D4:9:LEU:CD1	30:D4:10:VAL:H	2.20	0.54
32:D6:15:GLU:CD	32:D6:18:ARG:NH2	2.65	0.54
36:DA:108:U:H2'	36:DA:109:G:H8	1.73	0.54
36:DA:782:A:H4'	36:DA:783:A:O5'	2.07	0.54
36:DA:880:G:H2'	36:DA:881:G:H8	1.71	0.54
36:DA:1467:C:H42	36:DA:1525:G:H1	1.56	0.54
36:DA:1680:U:H2'	36:DA:1681:G:O4'	2.07	0.54
36:DA:1775:U:O2'	36:DA:1776:G:H5'	2.07	0.54
36:DA:2533:A:H2'	36:DA:2534:A:H5'	1.90	0.54
36:DA:2596:U:H3'	36:DA:2597:G:C8	2.42	0.54
36:DA:2837:G:H8	36:DA:2837:G:O5'	1.91	0.54
37:DB:3:C:H42	37:DB:118:G:H1	1.54	0.54
37:DB:91:C:C5'	49:DQ:17:LEU:O	2.52	0.54
38:DC:96:GLY:CA	38:DC:99:ILE:HG12	2.32	0.54
39:DD:149:PRO:HG3	39:DD:186:HIS:HD2	1.72	0.54
39:DD:270:ILE:HD12	39:DD:270:ILE:C	2.32	0.54
43:DH:137:ASP:OD1	43:DH:138:LYS:N	2.40	0.54
50:DR:21:TYR:HB3	50:DR:47:PHE:CD2	2.43	0.54
52:DT:134:GLU:O	52:DT:135:ALA:HB3	2.08	0.54
58:DZ:52:SER:O	58:DZ:71:VAL:HG23	2.08	0.54
1:AA:176:C:H2'	1:AA:177:C:H6	1.73	0.54
1:AA:364:A:H2'	1:AA:365:U:C2	2.43	0.54
1:AA:797:C:O2'	1:AA:798:G:H5'	2.08	0.54
1:AA:936:C:H2'	1:AA:937:A:C8	2.39	0.54
1:AA:963:G:H1	1:AA:972:C:H42	1.56	0.54
4:AD:9:CYS:SG	4:AD:32:ALA:CB	2.96	0.54
7:AG:31:MET:HB2	7:AG:39:ALA:HB1	1.90	0.54
8:AH:64:LYS:C	8:AH:65:TYR:CD1	2.86	0.54
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:9:VAL:C	19:AS:11:VAL:H	2.16	0.54
24:AY:1:G:H1'	25:AZ:300:ARG:HH21	1.65	0.54
25:AZ:226:GLU:HG3	25:AZ:240:GLY:CA	2.37	0.54
25:AZ:343:TYR:CE2	25:AZ:348:ASP:HB2	2.42	0.54
28:B2:62:THR:O	28:B2:66:GLU:N	2.38	0.54
31:B5:5:PRO:CA	36:BA:2056:G:H22	2.19	0.54
34:B8:31:HIS:O	34:B8:32:LEU:C	2.51	0.54
35:B9:19:ARG:NH1	36:BA:2755:C:C4	2.76	0.54
36:BA:48:G:N2	36:BA:177:G:H21	2.06	0.54
36:BA:426:C:O2'	36:BA:427:U:H5'	2.07	0.54
36:BA:464:U:C2'	36:BA:465:G:H5'	2.37	0.54
36:BA:724:U:O2'	36:BA:725:G:H5'	2.08	0.54
36:BA:784:A:C6	39:BD:229:VAL:HG11	2.42	0.54
36:BA:1199:U:H1'	53:BU:4:ALA:HB2	1.88	0.54
36:BA:1252:G:O4'	53:BU:33:ARG:HD3	2.08	0.54
36:BA:2094:G:N2	36:BA:2196:C:H1'	2.22	0.54
36:BA:2838:G:H4'	50:BR:45:ARG:HD3	1.90	0.54
41:BF:131:GLY:HA3	41:BF:139:PHE:HA	1.89	0.54
42:BG:44:GLY:C	42:BG:46:ALA:H	2.14	0.54
42:BG:107:LEU:HD11	42:BG:178:PHE:CE1	2.43	0.54
47:BO:72:PRO:O	47:BO:74:GLY:N	2.41	0.54
48:BP:106:LEU:HD11	48:BP:112:LEU:HD23	1.89	0.54
48:BP:113:LYS:HA	48:BP:129:ALA:O	2.08	0.54
50:BR:61:HIS:HE1	50:BR:65:LEU:HD22	1.72	0.54
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.35	0.54
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.88	0.54
58:BZ:69:THR:C	58:BZ:70:LEU:HD23	2.32	0.54
1:CA:176:C:H2'	1:CA:177:C:H6	1.73	0.54
1:CA:192:U:O2'	20:CT:103:GLY:HA2	2.08	0.54
1:CA:774:G:O2'	1:CA:775:G:H5'	2.08	0.54
1:CA:1068:G:N7	1:CA:1108:G:N2	2.56	0.54
1:CA:1215:G:H2'	1:CA:1215:G:N3	2.22	0.54
1:CA:1217:C:H2'	1:CA:1218:C:H6	1.73	0.54
1:CA:1374:A:O2'	1:CA:1375:A:H5'	2.07	0.54
2:CB:162:ILE:HG21	2:CB:184:VAL:HG22	1.89	0.54
2:CB:200:ILE:HG22	2:CB:201:ILE:N	2.22	0.54
4:CD:157:LEU:O	4:CD:161:ASN:ND2	2.40	0.54
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.76	0.54
10:CJ:35:SER:OG	10:CJ:73:ASP:HB2	2.07	0.54
12:CL:84:LEU:O	12:CL:101:VAL:HG23	2.08	0.54
18:CR:38:GLU:OE2	18:CR:38:GLU:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:14:LYS:HA	20:CT:17:ARG:NH2	2.22	0.54
20:CT:33:ILE:CG2	20:CT:63:ILE:HG12	2.37	0.54
26:D0:69:PHE:CD2	26:D0:79:VAL:HG22	2.42	0.54
27:D1:82:LEU:C	27:D1:83:GLU:CG	2.81	0.54
36:DA:327:G:C2	36:DA:336:C:N3	2.76	0.54
36:DA:360:G:H2'	36:DA:361:G:O4'	2.08	0.54
36:DA:484:C:H2'	36:DA:485:C:C6	2.43	0.54
36:DA:827:U:H5'	36:DA:828:U:O5'	2.07	0.54
36:DA:1010:A:H1'	36:DA:1153:C:C1'	2.34	0.54
36:DA:1087:G:N2	36:DA:1103:A:H61	2.06	0.54
36:DA:1130:U:C2	36:DA:2025:C:H5''	2.42	0.54
36:DA:1657:C:OP1	40:DE:136:ARG:HB2	2.07	0.54
36:DA:1720:U:H2'	36:DA:1721:G:H5''	1.89	0.54
36:DA:1832:C:N4	36:DA:1833:U:C4	2.75	0.54
36:DA:1902:C:O2'	39:DD:244:ARG:CB	2.56	0.54
36:DA:2089:U:H3	36:DA:2230:G:H1	1.56	0.54
36:DA:2253:G:O2'	36:DA:2254:C:H5'	2.08	0.54
36:DA:2259:G:C2	36:DA:2282:G:N1	2.75	0.54
36:DA:2312:U:H2'	36:DA:2313:C:H5''	1.90	0.54
36:DA:2488:A:H2'	36:DA:2489:G:H8	1.73	0.54
36:DA:2504:U:O5'	36:DA:2504:U:H6	1.91	0.54
36:DA:2683:C:N4	36:DA:2727:G:H21	2.06	0.54
40:DE:93:VAL:HG12	40:DE:175:VAL:CG2	2.38	0.54
40:DE:116:VAL:HG21	40:DE:122:PHE:CD2	2.42	0.54
41:DF:163:VAL:O	41:DF:166:ALA:HB3	2.08	0.54
44:DJ:45:UNK:O	44:DJ:49:UNK:HA	2.07	0.54
48:DP:101:VAL:C	48:DP:103:ALA:N	2.66	0.54
52:DT:129:ARG:HD2	52:DT:131:ALA:H	1.73	0.54
53:DU:55:ARG:HG2	53:DU:58:ARG:CZ	2.37	0.54
54:DV:15:GLU:O	54:DV:96:ILE:HB	2.07	0.54
57:DY:7:VAL:CB	57:DY:8:LYS:HD2	2.30	0.54
1:AA:353:A:H8	1:AA:353:A:H5'	1.73	0.54
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.88	0.54
1:AA:564:C:H2'	1:AA:565:U:O4'	2.08	0.54
1:AA:571:U:O2	1:AA:918:A:H5'	2.07	0.54
1:AA:1360:A:C2'	1:AA:1361:G:H5'	2.38	0.54
2:AB:35:GLU:HA	2:AB:39:ILE:O	2.08	0.54
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.70	0.54
3:AC:72:LYS:C	3:AC:74:GLY:H	2.16	0.54
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.43	0.54
11:AK:23:ALA:CB	11:AK:28:THR:HG23	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:115:LYS:O	12:AL:117:ARG:N	2.40	0.54
22:AV:40:C:H2'	22:AV:41:C:C6	2.43	0.54
25:AZ:31:LEU:HB3	25:AZ:70:TYR:CE2	2.42	0.54
26:B0:20:ARG:H	26:B0:20:ARG:CD	2.19	0.54
27:B1:16:ASN:ND2	27:B1:37:ILE:HG22	2.23	0.54
27:B1:40:ARG:NH2	36:BA:2232:U:OP2	2.41	0.54
28:B2:4:SER:CB	28:B2:7:ARG:HD2	2.38	0.54
29:B3:11:SER:HB3	36:BA:988:A:O5'	2.08	0.54
30:B4:35:VAL:HG12	42:BG:112:PRO:HG3	1.90	0.54
36:BA:13:A:H2	36:BA:14:A:H62	1.56	0.54
36:BA:90:U:H2'	36:BA:90:U:O2	2.07	0.54
36:BA:500:G:H2'	36:BA:502:A:OP2	2.08	0.54
36:BA:744:G:H2'	36:BA:745:G:O4'	2.08	0.54
36:BA:875:G:H2'	36:BA:876:C:O4'	2.08	0.54
36:BA:1255:U:C5	41:BF:73:ALA:HA	2.43	0.54
36:BA:1308:A:N1	36:BA:1611:C:H1'	2.23	0.54
36:BA:1323:U:H2'	36:BA:1324:G:H5'	1.90	0.54
36:BA:1539:G:H2'	36:BA:1540:U:O4'	2.07	0.54
36:BA:1744:C:C2'	36:BA:1745:C:H5'	2.38	0.54
36:BA:1774:C:H4'	36:BA:1979:C:O2	2.08	0.54
36:BA:1796:U:OP1	39:BD:276:LYS:HE3	2.08	0.54
36:BA:1902:C:C1'	39:BD:244:ARG:HG3	2.38	0.54
36:BA:2154:G:H8	36:BA:2154:G:O5'	1.91	0.54
36:BA:2873:A:N3	50:BR:6:SER:OG	2.35	0.54
40:BE:35:GLN:C	40:BE:36:ARG:HD2	2.33	0.54
40:BE:48:GLN:NE2	40:BE:78:LEU:HD13	2.23	0.54
41:BF:40:GLN:NE2	41:BF:182:ASN:HB2	2.22	0.54
46:BN:62:VAL:HG23	46:BN:66:LYS:HD2	1.88	0.54
47:BO:88:ASN:ND2	47:BO:92:GLU:HB3	2.23	0.54
48:BP:36:LYS:HD2	48:BP:41:ARG:HB3	1.89	0.54
51:BS:61:ASN:OD1	51:BS:62:LYS:N	2.41	0.54
52:BT:101:PHE:O	52:BT:103:ARG:N	2.41	0.54
53:BU:9:VAL:C	53:BU:13:LYS:HE2	2.33	0.54
53:BU:94:ASN:O	53:BU:96:ALA:N	2.39	0.54
53:BU:99:ALA:HA	53:BU:106:PHE:CG	2.43	0.54
57:BY:17:SER:HB2	57:BY:71:LYS:HD2	1.90	0.54
57:BY:29:GLU:CD	57:BY:38:ILE:HG21	2.33	0.54
58:BZ:127:LYS:O	58:BZ:128:VAL:HB	2.07	0.54
58:BZ:150:LEU:O	58:BZ:150:LEU:HD23	2.07	0.54
1:CA:58:C:H1'	1:CA:388:G:N7	2.23	0.54
1:CA:370:C:H2'	1:CA:371:G:H8	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:5:ILE:HD13	3:CC:5:ILE:N	2.23	0.54
3:CC:96:GLY:C	3:CC:97:LYS:HG2	2.32	0.54
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.22	0.54
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.71	0.54
8:CH:86:ILE:HG13	8:CH:133:LEU:HD23	1.90	0.54
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE2	2.26	0.54
12:CL:55:VAL:HG23	12:CL:68:ALA:C	2.33	0.54
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.23	0.54
13:CM:45:VAL:O	13:CM:48:LEU:HG	2.08	0.54
19:CS:6:LYS:H	19:CS:6:LYS:CD	2.20	0.54
25:CZ:116:THR:HG22	25:CZ:120:ILE:HD12	1.89	0.54
25:CZ:118:GLU:O	25:CZ:120:ILE:N	2.41	0.54
32:D6:27:LYS:HG3	32:D6:27:LYS:O	2.08	0.54
35:D9:12:ASP:O	35:D9:14:CYS:N	2.41	0.54
36:DA:21:A:H2'	36:DA:22:C:H6	1.73	0.54
36:DA:718:A:H2'	36:DA:719:C:C5'	2.38	0.54
36:DA:862:G:H3'	36:DA:863:A:C8	2.43	0.54
36:DA:1511:C:H2'	36:DA:1512:U:H6	1.73	0.54
36:DA:1777:U:O2'	36:DA:1778:U:H5'	2.08	0.54
36:DA:1820:U:C2	39:DD:202:LYS:HB3	2.42	0.54
36:DA:2243:U:O2	36:DA:2434:A:C2	2.61	0.54
36:DA:2252:G:C2'	36:DA:2253:G:H5'	2.38	0.54
36:DA:2283:C:C5	36:DA:2389:G:H2'	2.43	0.54
36:DA:2341:G:C2	36:DA:2342:C:N3	2.76	0.54
36:DA:2846:G:H2'	36:DA:2847:U:O4'	2.06	0.54
36:DA:2864:G:OP1	52:DT:119:LYS:HD2	2.08	0.54
39:DD:3:VAL:HG12	39:DD:17:THR:HB	1.90	0.54
39:DD:275:LYS:O	39:DD:276:LYS:HB2	2.08	0.54
41:DF:130:ALA:HB3	41:DF:142:TRP:HD1	1.71	0.54
42:DG:86:MET:O	42:DG:86:MET:HG2	2.06	0.54
43:DH:58:GLU:O	43:DH:62:LYS:HB2	2.08	0.54
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.07	0.54
46:DN:134:ARG:N	46:DN:135:PRO:HD3	2.22	0.54
51:DS:78:LEU:HD11	51:DS:103:GLU:CB	2.38	0.54
52:DT:83:ILE:O	52:DT:84:GLN:O	2.25	0.54
53:DU:94:ASN:O	53:DU:96:ALA:N	2.38	0.54
1:AA:606:G:H21	1:AA:631:G:H2'	1.72	0.54
1:AA:635:G:O2'	1:AA:636:U:H5'	2.08	0.54
1:AA:734:G:C2	1:AA:735:C:C2	2.96	0.54
1:AA:879:C:O2'	1:AA:880:C:H5'	2.07	0.54
1:AA:1226:C:H6	13:AM:103:THR:OG1	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.22	0.54
2:AB:11:LEU:O	2:AB:14:GLY:N	2.40	0.54
2:AB:36:ARG:O	2:AB:38:GLY:N	2.39	0.54
2:AB:167:PRO:HG2	2:AB:192:SER:CB	2.38	0.54
2:AB:170:GLU:C	2:AB:172:ILE:HD12	2.33	0.54
3:AC:165:THR:O	3:AC:165:THR:CG2	2.56	0.54
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.08	0.54
13:AM:52:GLU:CA	13:AM:55:ARG:HB3	2.35	0.54
15:AO:4:THR:O	15:AO:6:GLU:N	2.34	0.54
20:AT:38:LYS:C	20:AT:40:ALA:H	2.16	0.54
35:B9:12:ASP:CG	35:B9:13:LYS:H	2.15	0.54
35:B9:12:ASP:OD2	35:B9:13:LYS:HG3	2.07	0.54
36:BA:145:G:H3'	36:BA:146:G:H5''	1.89	0.54
36:BA:381:G:C2	36:BA:394:A:C2	2.96	0.54
36:BA:481:G:H4'	36:BA:481:G:OP1	2.07	0.54
36:BA:674:G:H1'	41:BF:74:ARG:HD3	1.89	0.54
36:BA:718:A:H2'	36:BA:719:C:C5'	2.38	0.54
36:BA:1265:A:H8	36:BA:1265:A:OP1	1.91	0.54
36:BA:1473:G:N3	36:BA:1474:C:H1'	2.23	0.54
36:BA:1601:G:C2'	36:BA:1602:U:H5'	2.38	0.54
36:BA:1625:C:O2'	36:BA:1626:G:H5'	2.08	0.54
36:BA:2297:C:C2'	36:BA:2298:A:H5'	2.38	0.54
36:BA:2312:U:H2'	36:BA:2313:C:H5'	1.88	0.54
36:BA:2469:A:H1'	36:BA:2482:G:C6	2.42	0.54
36:BA:2488:A:H2'	36:BA:2489:G:H8	1.73	0.54
36:BA:2677:G:O2'	36:BA:2678:C:H5'	2.07	0.54
37:BB:17:C:H2'	37:BB:18:G:O4'	2.07	0.54
38:BC:96:GLY:CA	38:BC:99:ILE:HG12	2.32	0.54
41:BF:40:GLN:HE22	41:BF:184:TYR:HB3	1.72	0.54
41:BF:159:GLY:N	41:BF:178:PRO:HD3	2.23	0.54
42:BG:85:GLY:C	42:BG:87:PRO:CD	2.80	0.54
47:BO:12:ASP:C	47:BO:14:THR:H	2.16	0.54
58:BZ:51:ALA:O	58:BZ:53:ILE:N	2.41	0.54
1:CA:110:C:O2'	1:CA:111:G:H5'	2.08	0.54
1:CA:254:G:H2'	1:CA:255:G:H8	1.72	0.54
1:CA:686:U:O4	1:CA:703:G:H1'	2.07	0.54
1:CA:741:G:O2'	1:CA:742:G:H5'	2.07	0.54
1:CA:781:A:C5	1:CA:802:A:C2	2.95	0.54
1:CA:972:C:C4'	10:CJ:57:LYS:HG3	2.37	0.54
1:CA:1047:G:C5'	14:CN:4:LYS:HE2	2.27	0.54
1:CA:1054:C:N4	24:CY:34:G:C1'	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1170:A:C2'	1:CA:1171:G:H5'	2.38	0.54
1:CA:1235:U:O3'	21:CU:3:LYS:HB2	2.07	0.54
2:CB:8:LYS:HZ1	2:CB:217:ARG:NH1	2.05	0.54
2:CB:111:ARG:HE	2:CB:145:LEU:HD21	1.73	0.54
5:CE:31:LEU:HD23	5:CE:45:PHE:HB2	1.90	0.54
6:CF:30:LEU:O	6:CF:35:ALA:HB3	2.08	0.54
8:CH:127:LEU:HD12	8:CH:129:VAL:CG1	2.38	0.54
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.23	0.54
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.34	0.54
20:CT:23:ARG:HG2	20:CT:23:ARG:HH11	1.73	0.54
26:D0:72:ARG:O	26:D0:74:ARG:N	2.41	0.54
28:D2:58:ALA:O	28:D2:59:ARG:C	2.51	0.54
32:D6:33:LYS:O	32:D6:34:LEU:CB	2.56	0.54
34:D8:59:LYS:NZ	48:DP:50:ARG:HB3	2.23	0.54
36:DA:133:C:N3	36:DA:146:G:O6	2.41	0.54
36:DA:271(B):C:H42	36:DA:271(W):G:H21	1.55	0.54
36:DA:598:G:H2'	36:DA:599:G:O4'	2.08	0.54
36:DA:654(N):G:O2'	36:DA:654(O):G:H5'	2.07	0.54
36:DA:1020:A:C2	36:DA:1141:U:H1'	2.43	0.54
36:DA:1192:G:H8	36:DA:1192:G:O5'	1.90	0.54
36:DA:1288:U:C2	36:DA:1327:C:C2	2.96	0.54
36:DA:1431:U:H2'	36:DA:1432:C:H5'	1.90	0.54
36:DA:1498:C:H3'	36:DA:1499:C:H5''	1.88	0.54
36:DA:1722:A:O2'	36:DA:1739:U:H5'	2.07	0.54
37:DB:70:C:H2'	37:DB:71:C:H6	1.72	0.54
38:DC:28:LEU:HD23	38:DC:28:LEU:C	2.33	0.54
38:DC:120:MET:O	38:DC:121:GLY:C	2.51	0.54
40:DE:120:TRP:CB	40:DE:155:LYS:HE3	2.37	0.54
41:DF:159:GLY:N	41:DF:178:PRO:HD3	2.23	0.54
41:DF:192:LEU:HD23	41:DF:192:LEU:C	2.33	0.54
43:DH:85:LYS:HE2	43:DH:86:GLU:N	2.23	0.54
43:DH:88:LEU:N	43:DH:88:LEU:HD22	2.22	0.54
47:DO:91:LEU:HD13	47:DO:111:PHE:HE1	1.73	0.54
48:DP:61:ARG:C	48:DP:62:LEU:HD23	2.33	0.54
50:DR:2:ARG:HD2	50:DR:2:ARG:C	2.32	0.54
51:DS:54:LEU:C	51:DS:56:LEU:H	2.15	0.54
52:DT:58:ASN:O	52:DT:60:THR:HG23	2.08	0.54
1:AA:486:U:O2'	1:AA:487:A:H5'	2.08	0.54
1:AA:815:A:N7	1:AA:1509:C:O2'	2.33	0.54
1:AA:899:C:H2'	1:AA:900:A:O4'	2.07	0.54
1:AA:977:A:N3	1:AA:977:A:C2'	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.43	0.54
1:AA:1187:G:O2'	9:AI:111:ARG:NH1	2.41	0.54
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.35	0.54
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.72	0.54
2:AB:130:ARG:NH1	2:AB:134:GLU:HG3	2.22	0.54
2:AB:130:ARG:HH21	2:AB:131:PRO:CD	2.21	0.54
2:AB:166:ASP:O	2:AB:167:PRO:C	2.50	0.54
4:AD:72:GLU:O	4:AD:73:ARG:C	2.51	0.54
7:AG:145:ALA:O	7:AG:146:GLU:C	2.51	0.54
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.17	0.54
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.26	0.54
9:AI:80:GLY:C	9:AI:82:ALA:H	2.16	0.54
12:AL:105:TYR:N	12:AL:105:TYR:HD2	2.05	0.54
13:AM:53:VAL:O	13:AM:56:LEU:HB3	2.08	0.54
15:AO:3:ILE:HG23	15:AO:38:ARG:NH2	2.22	0.54
16:AP:13:HIS:O	16:AP:15:PRO:HD3	2.08	0.54
19:AS:18:LYS:HG3	19:AS:18:LYS:O	2.08	0.54
24:AY:9:A:H2	24:AY:45:G:C6	2.25	0.54
25:AZ:17:ILE:HD13	25:AZ:102:ALA:HB1	1.89	0.54
25:AZ:116:THR:HG22	25:AZ:120:ILE:HD12	1.89	0.54
25:AZ:223:MET:O	25:AZ:223:MET:HG3	2.07	0.54
25:AZ:316:PHE:CE2	25:AZ:400:VAL:HG22	2.42	0.54
33:B7:11:LYS:NZ	36:BA:685:A:OP1	2.41	0.54
36:BA:182:A:C6	36:BA:183:C:C4	2.96	0.54
36:BA:272(B):G:H1	36:BA:366:C:N4	2.06	0.54
36:BA:828:U:H2'	36:BA:829:A:C8	2.43	0.54
36:BA:856:C:H2'	36:BA:857:C:O4'	2.08	0.54
36:BA:1201:C:N3	36:BA:1245:G:C2	2.76	0.54
36:BA:1245:G:H5'	41:BF:34:TRP:HZ2	1.71	0.54
36:BA:1431:U:H2'	36:BA:1432:C:C5'	2.38	0.54
36:BA:1551:C:H2'	36:BA:1552:G:C5'	2.38	0.54
36:BA:1761:C:H3'	36:BA:1762:A:C8	2.43	0.54
36:BA:1826:G:O5'	36:BA:1826:G:H8	1.90	0.54
36:BA:2283:C:C5	36:BA:2389:G:H2'	2.43	0.54
36:BA:2328:A:H2'	36:BA:2329:G:H8	1.73	0.54
36:BA:2414:G:C2	36:BA:2415:G:C8	2.96	0.54
36:BA:2550:G:C2'	36:BA:2551:C:H5'	2.38	0.54
37:BB:57:A:C5	42:BG:29:TRP:CD1	2.95	0.54
38:BC:38:ASP:O	38:BC:177:LYS:HE3	2.07	0.54
38:BC:77:ILE:O	38:BC:78:ALA:O	2.24	0.54
38:BC:122:ALA:O	38:BC:126:LYS:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:63:ILE:CG1	42:BG:64:THR:H	1.94	0.54
42:BG:121:ASN:CG	42:BG:124:SER:HB2	2.33	0.54
43:BH:37:VAL:CG1	43:BH:38:SER:H	2.09	0.54
46:BN:60:ILE:CD1	46:BN:99:LEU:HD23	2.38	0.54
46:BN:65:LYS:O	46:BN:69:GLN:HB2	2.08	0.54
47:BO:111:PHE:CB	47:BO:114:ILE:HD13	2.34	0.54
50:BR:43:GLU:HA	50:BR:43:GLU:OE2	2.06	0.54
51:BS:68:GLN:HA	51:BS:71:ARG:HD3	1.89	0.54
51:BS:77:ALA:O	51:BS:79:ALA:N	2.37	0.54
52:BT:89:VAL:HG12	52:BT:91:ARG:CG	2.38	0.54
54:BV:26:ASP:O	54:BV:27:ALA:HB2	2.08	0.54
58:BZ:51:ALA:HA	58:BZ:55:HIS:CD2	2.41	0.54
1:CA:412:A:H4'	1:CA:413:G:C8	2.39	0.54
1:CA:781:A:C3'	1:CA:782:A:H5'	2.38	0.54
1:CA:1082:G:H2'	1:CA:1083:U:O4'	2.08	0.54
1:CA:1187:G:O2'	9:CI:111:ARG:NH1	2.41	0.54
1:CA:1195:C:H5''	1:CA:1196:U:OP2	2.07	0.54
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.21	0.54
1:CA:1380:U:O2	7:CG:3:ARG:NH2	2.40	0.54
2:CB:130:ARG:HH21	2:CB:131:PRO:CD	2.21	0.54
4:CD:129:ASN:HD21	4:CD:145:GLU:N	2.06	0.54
5:CE:103:GLY:H	5:CE:106:PRO:HG3	1.73	0.54
6:CF:37:VAL:CG1	6:CF:38:GLU:N	2.71	0.54
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.43	0.54
9:CI:28:VAL:O	9:CI:29:ASN:C	2.51	0.54
11:CK:127:LYS:C	11:CK:129:SER:H	2.16	0.54
12:CL:70:ILE:CD1	12:CL:77:LEU:HD12	2.38	0.54
12:CL:86:ARG:CG	12:CL:87:GLY:H	2.13	0.54
13:CM:108:ARG:HD2	13:CM:108:ARG:H	1.70	0.54
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.73	0.54
18:CR:32:ARG:O	18:CR:69:THR:HG21	2.08	0.54
22:CW:52:G:N2	22:CW:53:G:H1'	2.23	0.54
25:CZ:20:VAL:HA	25:CZ:24:LYS:NZ	2.21	0.54
25:CZ:137:LYS:HG2	62:CZ:501:GDP:C5	2.43	0.54
25:CZ:193:ASN:O	25:CZ:195:TRP:N	2.40	0.54
25:CZ:259:ALA:CB	25:CZ:260:PRO:HD2	2.28	0.54
25:CZ:325:LYS:HB2	25:CZ:331:HIS:HA	1.89	0.54
30:D4:14:ILE:HG13	30:D4:31:ILE:HB	1.90	0.54
35:D9:30:PRO:C	35:D9:32:HIS:N	2.66	0.54
36:DA:320:A:C2	36:DA:323:G:N1	2.75	0.54
36:DA:497:A:H2'	36:DA:498:G:H8	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:607:U:OP1	41:DF:102:PRO:HA	2.09	0.54
36:DA:777:A:H2'	36:DA:778:G:H8	1.71	0.54
36:DA:1637:A:H2'	36:DA:1638:C:O4'	2.08	0.54
36:DA:1690:A:H2'	36:DA:1691:C:C5'	2.36	0.54
36:DA:1993:U:H5''	40:DE:128:SER:HB3	1.88	0.54
36:DA:2063:C:O2	36:DA:2450:A:N1	2.41	0.54
36:DA:2101:G:H22	36:DA:2189:U:H3	1.56	0.54
36:DA:2329:G:O2'	36:DA:2330:G:H5'	2.08	0.54
36:DA:2728:U:O2'	40:DE:22:PRO:HG3	2.08	0.54
36:DA:2821:A:H2'	36:DA:2822:G:C8	2.43	0.54
36:DA:2822:G:OP2	40:DE:110:GLY:C	2.51	0.54
37:DB:8:U:H2'	37:DB:9:G:H8	1.72	0.54
39:DD:70:TRP:CZ3	39:DD:150:LYS:HA	2.42	0.54
40:DE:110:GLY:O	50:DR:2:ARG:HG2	2.08	0.54
41:DF:10:PRO:HG2	41:DF:11:VAL:H	1.72	0.54
41:DF:108:LYS:O	41:DF:112:MET:HE3	2.08	0.54
42:DG:163:ALA:CB	42:DG:169:ALA:HB2	2.35	0.54
43:DH:64:LEU:O	43:DH:67:LEU:HB3	2.08	0.54
43:DH:68:THR:HA	43:DH:71:LEU:CB	2.37	0.54
46:DN:16:ILE:CD1	46:DN:139:GLU:N	2.71	0.54
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.16	0.54
47:DO:7:TYR:HE1	47:DO:20:MET:CE	2.17	0.54
50:DR:59:ASP:O	50:DR:61:HIS:N	2.41	0.54
52:DT:89:VAL:CB	52:DT:91:ARG:HE	2.21	0.54
54:DV:40:LEU:HD13	54:DV:46:VAL:H	1.72	0.54
58:DZ:8:TYR:O	58:DZ:9:TYR:C	2.50	0.54
58:DZ:28:MET:HE1	58:DZ:33:LEU:CD2	2.38	0.54
1:AA:276:G:O2'	1:AA:277:C:H5'	2.08	0.53
1:AA:444:C:H2'	1:AA:445:G:C8	2.43	0.53
1:AA:647:C:O2'	1:AA:648:A:H5'	2.09	0.53
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.43	0.53
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.43	0.53
3:AC:13:GLY:O	3:AC:14:ILE:HG22	2.08	0.53
3:AC:18:TRP:N	3:AC:18:TRP:HE3	2.06	0.53
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.89	0.53
8:AH:37:ARG:O	8:AH:41:ARG:HB2	2.07	0.53
9:AI:10:ARG:HG3	9:AI:75:ASP:CB	2.36	0.53
11:AK:120:ARG:NH1	11:AK:126:ARG:HD2	2.22	0.53
13:AM:125:ARG:NH1	36:BA:1913:A:C8	2.76	0.53
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.39	0.53
19:AS:40:ILE:CG2	19:AS:67:VAL:HA	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.87	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD22	1.89	0.53
25:AZ:263:ARG:HH21	25:AZ:297:GLU:CB	2.21	0.53
26:B0:10:THR:HG22	26:B0:12:ASN:H	1.73	0.53
34:B8:3:LYS:HD2	36:BA:242:G:C8	2.43	0.53
35:B9:30:PRO:C	35:B9:32:HIS:N	2.65	0.53
36:BA:251:A:H2'	36:BA:252:G:O4'	2.08	0.53
36:BA:485:C:H2'	36:BA:486:C:C6	2.44	0.53
36:BA:500:G:N2	36:BA:502:A:H3'	2.23	0.53
36:BA:814:C:H2'	36:BA:815:C:C6	2.43	0.53
36:BA:847:U:H2'	36:BA:848:G:H5''	1.88	0.53
36:BA:1103:A:H5'	36:BA:1104:C:OP2	2.08	0.53
36:BA:1170:G:H1	36:BA:1179:C:H42	1.56	0.53
38:BC:183:GLU:CD	38:BC:183:GLU:N	2.66	0.53
39:BD:69:ARG:HD2	39:BD:119:ALA:HB2	1.89	0.53
41:BF:31:HIS:CG	48:BP:13:ASN:HB2	2.43	0.53
41:BF:42:ALA:O	41:BF:44:ARG:N	2.40	0.53
42:BG:168:GLU:C	42:BG:170:ARG:N	2.63	0.53
43:BH:26:VAL:HG11	43:BH:76:VAL:HA	1.90	0.53
47:BO:71:ARG:NE	47:BO:105:GLU:OE2	2.40	0.53
50:BR:55:ALA:CB	50:BR:79:LEU:HD11	2.37	0.53
52:BT:32:TYR:CG	52:BT:81:PRO:HB3	2.43	0.53
52:BT:51:ARG:NE	52:BT:100:TYR:OH	2.42	0.53
53:BU:10:ARG:O	53:BU:11:ARG:C	2.50	0.53
58:BZ:4:ARG:HA	58:BZ:57:ILE:HG23	1.90	0.53
58:BZ:24:LEU:C	58:BZ:24:LEU:CD2	2.81	0.53
58:BZ:126:VAL:HG12	58:BZ:163:LEU:HD12	1.89	0.53
1:CA:509:A:H5'	4:CD:54:TYR:HD2	1.73	0.53
1:CA:1054:C:C6	1:CA:1196:U:C5	2.96	0.53
1:CA:1367:C:H5'	10:CJ:60:ARG:NH2	2.23	0.53
1:CA:1499:A:H1'	1:CA:1520:G:C5'	2.38	0.53
3:CC:113:ALA:CB	3:CC:185:GLY:H	2.21	0.53
5:CE:107:ARG:O	5:CE:111:GLU:HG3	2.09	0.53
8:CH:109:ILE:HG23	8:CH:137:VAL:HB	1.89	0.53
9:CI:89:ASN:O	9:CI:92:TYR:HB2	2.07	0.53
13:CM:55:ARG:O	13:CM:58:GLU:HB2	2.07	0.53
19:CS:27:GLU:O	19:CS:28:LYS:O	2.26	0.53
20:CT:19:SER:C	20:CT:21:LYS:N	2.62	0.53
21:CU:2:GLY:N	21:CU:5:ASP:HB2	2.24	0.53
21:CU:5:ASP:O	21:CU:7:ARG:N	2.41	0.53
26:D0:4:LYS:HG3	49:DQ:82:ARG:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D0:32:ARG:HA	26:D0:64:ASP:HB3	1.89	0.53
27:D1:72:GLU:O	27:D1:73:LEU:HD12	2.07	0.53
30:D4:31:ILE:HG22	30:D4:33:VAL:HG23	1.90	0.53
36:DA:635:C:H2'	36:DA:636:G:C8	2.43	0.53
36:DA:814:C:H2'	36:DA:815:C:C6	2.43	0.53
36:DA:949:C:O2'	36:DA:950:G:H5'	2.08	0.53
36:DA:1192:G:C6	48:DP:29:LYS:NZ	2.76	0.53
36:DA:1259:G:H2'	36:DA:1260:G:H8	1.73	0.53
36:DA:1364:G:H5''	36:DA:1365:A:OP2	2.08	0.53
36:DA:2061:G:H5''	36:DA:2503:A:C6	2.43	0.53
36:DA:2305:A:H61	42:DG:43:LEU:HA	1.72	0.53
36:DA:2399:G:C2	36:DA:2400:G:H1'	2.43	0.53
36:DA:2785:C:H2'	36:DA:2786:U:H6	1.72	0.53
37:DB:40:U:H3'	37:DB:41:U:H5''	1.89	0.53
37:DB:74:U:H2'	37:DB:75:G:C1'	2.37	0.53
39:DD:142:VAL:CG2	39:DD:143:HIS:N	2.71	0.53
42:DG:34:LEU:HD21	42:DG:100:TRP:CZ3	2.43	0.53
50:DR:9:LYS:O	50:DR:10:LEU:HD23	2.08	0.53
51:DS:77:ALA:C	51:DS:79:ALA:N	2.65	0.53
53:DU:57:PHE:C	53:DU:59:ARG:N	2.64	0.53
58:DZ:165:VAL:HG12	58:DZ:166:SER:H	1.71	0.53
1:AA:383:A:OP1	1:AA:454:C:H2'	2.08	0.53
1:AA:599:C:H2'	1:AA:600:C:C6	2.43	0.53
1:AA:790:A:H2'	1:AA:791:G:C8	2.42	0.53
1:AA:828:A:H2'	1:AA:829:G:O4'	2.09	0.53
1:AA:954:G:H4'	13:AM:120:LYS:HD3	1.90	0.53
1:AA:1009:G:H2'	1:AA:1010:G:C8	2.43	0.53
1:AA:1100:C:OP2	2:AB:96:ARG:HG2	2.08	0.53
2:AB:16:HIS:HB3	2:AB:210:SER:CA	2.39	0.53
4:AD:61:LYS:O	4:AD:64:LEU:N	2.41	0.53
4:AD:62:GLN:HE22	4:AD:65:ARG:HH21	1.57	0.53
7:AG:36:LYS:C	7:AG:39:ALA:HB3	2.34	0.53
7:AG:143:ARG:O	7:AG:145:ALA:O	2.27	0.53
8:AH:86:ILE:HG21	8:AH:133:LEU:CD2	2.33	0.53
13:AM:106:ASN:O	13:AM:107:ALA:HB2	2.06	0.53
14:AN:22:THR:O	14:AN:23:ARG:CB	2.56	0.53
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.89	0.53
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.08	0.53
20:AT:57:ARG:HH11	20:AT:103:GLY:H	1.53	0.53
21:AU:10:ARG:O	21:AU:11:GLY:C	2.49	0.53
26:B0:72:ARG:O	26:B0:74:ARG:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:40:LYS:HE2	31:B5:46:CYS:SG	2.47	0.53
32:B6:8:LYS:O	32:B6:27:LYS:HA	2.07	0.53
32:B6:42:TRP:HA	32:B6:42:TRP:CE3	2.43	0.53
36:BA:94:C:H3'	36:BA:94(A):G:C8	2.43	0.53
36:BA:364:C:O2	36:BA:364:C:C2'	2.56	0.53
36:BA:515:A:H2'	36:BA:516:C:O4'	2.09	0.53
36:BA:620:G:H4'	36:BA:621:A:OP1	2.07	0.53
36:BA:674:G:H5''	41:BF:76:GLY:N	2.23	0.53
36:BA:716:A:C2'	36:BA:717:G:H5''	2.37	0.53
36:BA:1613:G:H3'	36:BA:1614:A:H5''	1.88	0.53
36:BA:1763:G:H2'	36:BA:1764:G:C5'	2.38	0.53
36:BA:1779:U:C2'	36:BA:1783:A:H62	2.21	0.53
36:BA:1825:A:O3'	39:BD:233:HIS:CE1	2.62	0.53
36:BA:1825:A:H2'	36:BA:1826:G:C8	2.43	0.53
37:BB:14:U:H2'	37:BB:15:A:H2	1.73	0.53
37:BB:66:A:H61	37:BB:108:U:H3'	1.72	0.53
40:BE:4:ILE:HD11	40:BE:28:ALA:O	2.08	0.53
43:BH:26:VAL:HG11	43:BH:75:ALA:O	2.08	0.53
49:BQ:10:ARG:HB2	49:BQ:10:ARG:NH1	2.23	0.53
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.85	0.53
53:BU:83:LEU:H	53:BU:83:LEU:CD1	2.21	0.53
58:BZ:47:VAL:HG11	58:BZ:57:ILE:HG12	1.90	0.53
1:CA:328:C:H4'	1:CA:329:A:C5'	2.38	0.53
1:CA:778:G:H2'	1:CA:779:C:H6	1.73	0.53
1:CA:1155:G:H2'	1:CA:1156:G:H8	1.73	0.53
1:CA:1238:A:OP1	1:CA:1335:C:H1'	2.08	0.53
1:CA:1512:U:O2'	1:CA:1513:A:H5'	2.08	0.53
2:CB:87:ARG:HH21	2:CB:233:SER:CB	2.21	0.53
5:CE:45:PHE:CE2	5:CE:47:LYS:HD2	2.43	0.53
8:CH:17:THR:C	8:CH:78:GLN:HE22	2.15	0.53
10:CJ:51:ARG:NE	10:CJ:61:GLU:HB2	2.23	0.53
12:CL:104:VAL:HG12	12:CL:105:TYR:CD2	2.43	0.53
13:CM:14:ARG:HG3	13:CM:44:ARG:CZ	2.37	0.53
22:CV:27:G:H2'	22:CV:28:G:H8	1.74	0.53
27:D1:95:LEU:O	27:D1:95:LEU:CG	2.55	0.53
29:D3:4:LEU:HG	29:D3:39:ASP:HB2	1.91	0.53
32:D6:15:GLU:HA	32:D6:49:HIS:ND1	2.22	0.53
32:D6:18:ARG:HG2	32:D6:18:ARG:NH1	2.19	0.53
36:DA:528:A:C2	36:DA:2043:C:H4'	2.43	0.53
36:DA:534:U:H5'	53:DU:42:ALA:CB	2.39	0.53
36:DA:807:U:H2'	36:DA:808:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1027:A:H2	36:DA:1028:A:N7	2.06	0.53
36:DA:1130:U:O2	36:DA:2025:C:H5''	2.07	0.53
36:DA:1600:C:H2'	36:DA:1601:G:C8	2.43	0.53
36:DA:1613:G:H3'	36:DA:1614:A:H5''	1.90	0.53
36:DA:1825:A:H4'	39:DD:233:HIS:CE1	2.42	0.53
36:DA:1887:C:H2'	36:DA:1888:G:C5'	2.15	0.53
36:DA:2223:G:C2'	36:DA:2224:G:H5'	2.38	0.53
37:DB:91:C:OP1	49:DQ:17:LEU:N	2.41	0.53
38:DC:77:ILE:O	38:DC:77:ILE:HG22	2.08	0.53
40:DE:4:ILE:HG12	40:DE:5:LEU:N	2.23	0.53
41:DF:160:ASN:HD21	41:DF:162:LEU:HD13	1.70	0.53
42:DG:27:ASN:HD22	42:DG:29:TRP:HB2	1.72	0.53
43:DH:26:VAL:HG11	43:DH:76:VAL:HA	1.90	0.53
43:DH:85:LYS:HE3	43:DH:87:LEU:HG	1.88	0.53
43:DH:87:LEU:CD2	43:DH:164:TYR:HA	2.37	0.53
43:DH:98:LEU:HB3	43:DH:125:VAL:HG21	1.90	0.53
50:DR:7:GLY:O	50:DR:8:ARG:HB2	2.08	0.53
50:DR:59:ASP:O	50:DR:60:LEU:C	2.50	0.53
52:DT:26:ASP:H	52:DT:90:GLN:HA	1.73	0.53
53:DU:97:ASP:O	53:DU:100:VAL:HB	2.08	0.53
55:DW:70:TYR:CE1	55:DW:72:LYS:HA	2.44	0.53
56:DX:3:THR:N	56:DX:6:ASP:OD2	2.41	0.53
1:AA:58:C:H1'	1:AA:388:G:N7	2.24	0.53
1:AA:308:C:H2'	1:AA:309:G:H8	1.74	0.53
1:AA:542:G:H2'	1:AA:543:C:H6	1.74	0.53
1:AA:666:G:H5'	1:AA:726:C:H1'	1.90	0.53
1:AA:995:C:N3	1:AA:1047:G:H5'	2.24	0.53
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.31	0.53
2:AB:17:PHE:O	2:AB:17:PHE:CD2	2.58	0.53
2:AB:218:ALA:O	2:AB:222:ILE:HG12	2.08	0.53
3:AC:60:ALA:H	3:AC:63:ASN:ND2	2.06	0.53
3:AC:152:ILE:HG22	3:AC:153:VAL:N	2.22	0.53
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.90	0.53
4:AD:171:GLY:O	4:AD:173:TRP:N	2.37	0.53
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.89	0.53
5:AE:118:ILE:HG13	5:AE:119:LEU:N	2.24	0.53
6:AF:15:ASP:C	6:AF:17:SER:H	2.16	0.53
6:AF:23:LYS:HA	6:AF:26:ILE:HD12	1.91	0.53
8:AH:127:LEU:HD12	8:AH:129:VAL:CG1	2.39	0.53
19:AS:13:ASP:C	19:AS:15:LEU:H	2.16	0.53
26:B0:5:LYS:HB3	26:B0:5:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:25:VAL:O	28:B2:27:GLU:N	2.41	0.53
28:B2:33:MET:HA	28:B2:36:ARG:NH1	2.23	0.53
36:BA:275:G:C2	36:BA:276:A:C2	2.97	0.53
36:BA:329:G:H1	57:BY:19:LYS:CE	2.20	0.53
36:BA:548:A:H2'	36:BA:549:G:H5'	1.89	0.53
36:BA:669:G:N3	36:BA:669:G:C2'	2.72	0.53
36:BA:754:C:H2'	36:BA:755:C:C6	2.43	0.53
36:BA:1686:C:H5'	36:BA:1687:G:OP2	2.07	0.53
36:BA:1973:G:H2'	36:BA:1974:C:C6	2.44	0.53
36:BA:2028:U:O4	36:BA:2033:A:OP1	2.26	0.53
39:BD:35:LYS:HG2	39:BD:63:ARG:CB	2.38	0.53
39:BD:170:GLY:C	39:BD:172:TYR:H	2.16	0.53
40:BE:119:ARG:NH1	40:BE:158:GLY:HA3	2.23	0.53
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.07	0.53
46:BN:17:ASP:OD2	46:BN:19:GLU:HB3	2.09	0.53
48:BP:50:ARG:NH1	48:BP:51:PHE:CE2	2.75	0.53
49:BQ:32:TYR:HE2	49:BQ:111:GLU:HG3	1.72	0.53
52:BT:94:ALA:O	52:BT:96:ARG:N	2.41	0.53
53:BU:97:ASP:O	53:BU:100:VAL:HB	2.08	0.53
58:BZ:149:SER:HB2	58:BZ:173:ALA:HA	1.88	0.53
1:CA:386:C:C2'	1:CA:387:U:C5'	2.81	0.53
1:CA:408:A:H4'	4:CD:112:VAL:CG1	2.36	0.53
1:CA:486:U:O2'	1:CA:487:A:H5'	2.08	0.53
1:CA:503:C:H2'	1:CA:504:C:C6	2.43	0.53
1:CA:581:G:O6	1:CA:758:G:N7	2.41	0.53
1:CA:667:G:H4'	15:CO:51:HIS:ND1	2.23	0.53
1:CA:1009:G:H2'	1:CA:1010:G:C8	2.44	0.53
1:CA:1371:G:OP1	9:CI:11:LYS:HE3	2.09	0.53
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.43	0.53
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.73	0.53
3:CC:114:PRO:N	3:CC:185:GLY:HA3	2.23	0.53
9:CI:112:LYS:HE3	9:CI:116:LYS:O	2.07	0.53
18:CR:47:THR:CG2	18:CR:49:LYS:HZ1	2.15	0.53
19:CS:16:LEU:C	19:CS:18:LYS:N	2.67	0.53
19:CS:62:ILE:CD1	19:CS:66:MET:HE2	2.36	0.53
20:CT:44:ALA:CB	20:CT:88:VAL:HG13	2.38	0.53
24:CY:48:C:H2'	24:CY:59:A:C1'	2.32	0.53
25:CZ:259:ALA:O	25:CZ:260:PRO:C	2.52	0.53
25:CZ:363:MET:HB3	25:CZ:364:PRO:CD	2.39	0.53
26:D0:62:LEU:N	26:D0:62:LEU:HD23	2.23	0.53
27:D1:25:LYS:CD	36:DA:388:G:H4'	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:16:ARG:HH11	31:D5:20:ARG:NH1	2.07	0.53
36:DA:80:G:H1'	36:DA:346:A:N1	2.23	0.53
36:DA:380:U:H2'	36:DA:381:G:H8	1.73	0.53
36:DA:1345:C:O2'	36:DA:1346:G:H5'	2.08	0.53
36:DA:1666:G:H2'	36:DA:1667:G:O4'	2.08	0.53
36:DA:1775:U:C2'	36:DA:1776:G:C5'	2.86	0.53
36:DA:1971:A:C4	39:DD:241:PRO:HD3	2.43	0.53
36:DA:2105:C:O2'	36:DA:2106:G:H5'	2.09	0.53
36:DA:2110:G:N2	36:DA:2178:C:C5	2.76	0.53
36:DA:2127:G:C6	36:DA:2128:C:N4	2.76	0.53
36:DA:2284:C:H1'	36:DA:2325:G:N2	2.22	0.53
36:DA:2790:A:N3	36:DA:2790:A:H2'	2.23	0.53
37:DB:14:U:H2'	37:DB:15:A:H2	1.73	0.53
40:DE:1:MET:H3	40:DE:84:PHE:HB2	1.73	0.53
42:DG:127:GLY:O	42:DG:166:ASP:OD1	2.26	0.53
42:DG:161:THR:C	42:DG:163:ALA:H	2.16	0.53
45:DK:129:UNK:C	45:DK:131:UNK:N	2.70	0.53
46:DN:1:MET:C	46:DN:1:MET:SD	2.91	0.53
46:DN:60:ILE:CD1	46:DN:99:LEU:HD23	2.38	0.53
47:DO:88:ASN:ND2	47:DO:92:GLU:HB3	2.22	0.53
48:DP:9:ASN:O	48:DP:10:PRO:C	2.49	0.53
48:DP:59:LEU:C	48:DP:61:ARG:H	2.16	0.53
48:DP:147:LEU:HG	48:DP:148:LEU:H	1.71	0.53
49:DQ:10:ARG:HB2	49:DQ:10:ARG:NH1	2.23	0.53
51:DS:56:LEU:CD2	51:DS:58:LEU:HB2	2.38	0.53
53:DU:99:ALA:HA	53:DU:106:PHE:CG	2.44	0.53
55:DW:107:LEU:HD12	55:DW:107:LEU:N	2.24	0.53
57:DY:13:VAL:CG2	57:DY:73:ARG:O	2.56	0.53
58:DZ:162:GLU:O	58:DZ:163:LEU:HD23	2.09	0.53
1:AA:541:G:O2'	1:AA:542:G:H5'	2.09	0.53
1:AA:686:U:O2'	1:AA:687:A:O5'	2.26	0.53
1:AA:770:C:C2'	1:AA:771:G:H5'	2.38	0.53
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.26	0.53
1:AA:1373:G:H5''	7:AG:36:LYS:HD2	1.90	0.53
1:AA:1412:C:H42	1:AA:1488:G:H1	1.54	0.53
2:AB:10:LEU:O	2:AB:13:ALA:HB3	2.08	0.53
4:AD:20:TYR:HA	4:AD:26:CYS:CB	2.37	0.53
4:AD:98:GLU:OE2	4:AD:107:ARG:NH2	2.41	0.53
7:AG:22:LEU:HD23	7:AG:22:LEU:C	2.34	0.53
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.73	0.53
27:B1:11:ARG:CZ	27:B1:11:ARG:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:10:LYS:HG3	36:BA:1263:U:H1'	1.90	0.53
32:B6:33:LYS:O	32:B6:34:LEU:CB	2.56	0.53
36:BA:24:G:H1'	55:BW:77:ASP:OD1	2.08	0.53
36:BA:225:A:C2'	36:BA:226:G:H5'	2.38	0.53
36:BA:315:G:H2'	36:BA:316:C:C6	2.44	0.53
36:BA:535:C:O2'	36:BA:536:A:H5'	2.08	0.53
36:BA:922:U:H2'	36:BA:923:C:C6	2.43	0.53
36:BA:1498:C:H3'	36:BA:1499:C:H5''	1.90	0.53
36:BA:2422:A:H3'	36:BA:2422:A:H8	1.74	0.53
36:BA:2557:G:O2'	36:BA:2558:C:H5'	2.07	0.53
36:BA:2657:A:O2'	43:BH:160:LYS:NZ	2.40	0.53
36:BA:2833:G:H8	36:BA:2833:G:OP1	1.92	0.53
39:BD:152:GLY:O	39:BD:153:ALA:O	2.26	0.53
39:BD:224:ALA:HB2	39:BD:233:HIS:CB	2.27	0.53
40:BE:1:MET:H3	40:BE:84:PHE:HB2	1.74	0.53
41:BF:118:ALA:O	41:BF:120:GLU:N	2.41	0.53
42:BG:93:THR:C	42:BG:94:LEU:HG	2.33	0.53
42:BG:122:PRO:CD	42:BG:181:ARG:HB3	2.38	0.53
43:BH:98:LEU:HB3	43:BH:125:VAL:HG21	1.90	0.53
49:BQ:48:GLU:HG2	49:BQ:52:VAL:CG2	2.37	0.53
49:BQ:95:ALA:O	49:BQ:97:VAL:HG22	2.08	0.53
51:BS:77:ALA:C	51:BS:79:ALA:N	2.64	0.53
51:BS:84:GLN:CA	51:BS:105:ALA:HB3	2.37	0.53
54:BV:21:ARG:HB3	54:BV:91:TYR:CG	2.44	0.53
1:CA:223:U:O2'	1:CA:224:C:H5'	2.09	0.53
1:CA:276:G:O2'	1:CA:277:C:H5'	2.09	0.53
1:CA:308:C:H2'	1:CA:309:G:H8	1.72	0.53
1:CA:419:C:H42	1:CA:424:G:N2	2.00	0.53
1:CA:446:G:H2'	1:CA:447:G:O4'	2.08	0.53
1:CA:586:C:H1'	1:CA:878:G:O2'	2.08	0.53
1:CA:658:G:H2'	1:CA:659:U:C6	2.43	0.53
1:CA:923:A:C6	1:CA:924:C:C4	2.96	0.53
1:CA:943:U:C2'	1:CA:944:G:H5'	2.38	0.53
1:CA:1173:G:H2'	1:CA:1174:G:H8	1.74	0.53
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.43	0.53
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.08	0.53
1:CA:1363(A):A:C4'	1:CA:1364:U:OP1	2.57	0.53
2:CB:149:LEU:O	2:CB:150:SER:C	2.51	0.53
3:CC:35:GLU:O	3:CC:36:ASP:C	2.52	0.53
4:CD:155:LEU:HB2	4:CD:158:ILE:HG12	1.90	0.53
5:CE:71:LEU:O	5:CE:72:GLN:CG	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.89	0.53
13:CM:54:VAL:O	13:CM:57:ARG:N	2.41	0.53
15:CO:4:THR:O	15:CO:6:GLU:N	2.33	0.53
20:CT:31:SER:HA	20:CT:34:LYS:HD2	1.90	0.53
22:CV:1:G:H2'	22:CV:2:C:H6	1.73	0.53
22:CV:49:C:OP1	22:CV:49:C:H2'	2.08	0.53
25:CZ:152:MET:CE	25:CZ:156:ASP:HB2	2.39	0.53
26:D0:50:ASN:HD22	26:D0:63:VAL:CG2	2.19	0.53
32:D6:27:LYS:CG	32:D6:30:THR:CB	2.78	0.53
36:DA:631:A:C5'	48:DP:65:ARG:HG2	2.39	0.53
36:DA:655:A:H1'	36:DA:656:G:O4'	2.08	0.53
36:DA:724:U:O2'	36:DA:725:G:H5'	2.08	0.53
36:DA:754:C:H2'	36:DA:755:C:C6	2.43	0.53
36:DA:956:G:H4'	49:DQ:83:MET:HE1	1.91	0.53
36:DA:979:G:N7	36:DA:981:A:OP1	2.41	0.53
36:DA:1343:G:C2	36:DA:1405:U:N3	2.77	0.53
36:DA:1410:G:H2'	36:DA:1411:C:H6	1.74	0.53
36:DA:1427:A:H4'	36:DA:1428:C:O5'	2.08	0.53
36:DA:1761:C:H3'	36:DA:1762:A:C8	2.44	0.53
36:DA:1826:G:H4'	39:DD:242:ARG:NH2	2.22	0.53
36:DA:2521:C:H5'	36:DA:2522:U:OP2	2.09	0.53
36:DA:2840:C:C5'	50:DR:53:HIS:HD2	2.21	0.53
38:DC:75:LEU:CD1	38:DC:113:VAL:HA	2.38	0.53
39:DD:69:ARG:HD2	39:DD:119:ALA:HB2	1.89	0.53
39:DD:70:TRP:CD1	39:DD:70:TRP:C	2.87	0.53
39:DD:106:ILE:O	39:DD:108:PRO:HD3	2.08	0.53
40:DE:38:THR:HG23	40:DE:39:PRO:HD2	1.90	0.53
41:DF:81:PRO:O	41:DF:82:ILE:O	2.25	0.53
42:DG:29:TRP:C	42:DG:31:VAL:N	2.65	0.53
42:DG:32:PRO:CB	42:DG:162:THR:HB	2.38	0.53
42:DG:95:ARG:O	42:DG:96:ARG:O	2.25	0.53
42:DG:145:THR:HG21	42:DG:147:ASP:OD1	2.09	0.53
46:DN:55:VAL:O	46:DN:56:ASN:C	2.51	0.53
49:DQ:35:VAL:HG22	49:DQ:36:ALA:N	2.22	0.53
52:DT:32:TYR:CD1	52:DT:81:PRO:HB3	2.44	0.53
53:DU:83:LEU:H	53:DU:83:LEU:CD1	2.22	0.53
54:DV:38:LEU:HD12	54:DV:57:VAL:HB	1.90	0.53
57:DY:86:ARG:CG	57:DY:87:LYS:H	2.17	0.53
58:DZ:75:ASN:O	58:DZ:84:GLU:CB	2.57	0.53
1:AA:197:A:H4'	1:AA:198:G:O5'	2.08	0.53
1:AA:403:C:OP1	4:AD:136:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1245:A:O2'	1:AA:1246:C:H5'	2.08	0.53
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.09	0.53
1:AA:1363(A):A:C4'	1:AA:1364:U:OP1	2.55	0.53
1:AA:1363(A):A:H1'	1:AA:1365:G:C5	2.44	0.53
1:AA:1392:G:N2	1:AA:1502:A:C8	2.76	0.53
2:AB:58:ILE:O	2:AB:59:GLU:C	2.50	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.33	0.53
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.09	0.53
12:AL:20:LYS:N	12:AL:20:LYS:CD	2.66	0.53
13:AM:108:ARG:HH11	13:AM:108:ARG:CG	2.22	0.53
20:AT:57:ARG:CZ	20:AT:102:GLY:HA3	2.38	0.53
20:AT:75:ASN:O	20:AT:79:ARG:HB2	2.09	0.53
22:AV:27:G:H2'	22:AV:28:G:H8	1.74	0.53
27:B1:29:GLY:O	27:B1:30:VAL:C	2.51	0.53
29:B3:15:TYR:HD2	29:B3:19:GLN:NE2	1.99	0.53
36:BA:324:A:O2'	36:BA:325:G:H5'	2.09	0.53
36:BA:615:G:H2'	36:BA:616:G:C8	2.44	0.53
36:BA:629:G:H2'	36:BA:630:G:O4'	2.07	0.53
36:BA:676:A:C8	36:BA:2443:C:H1'	2.36	0.53
36:BA:681:G:H2'	36:BA:682:G:C8	2.42	0.53
36:BA:708:C:H5'	36:BA:709:U:OP2	2.09	0.53
36:BA:738:G:H2'	36:BA:739:G:H5'	1.90	0.53
36:BA:995:C:O2	53:BU:61:TRP:HZ2	1.91	0.53
36:BA:1042:G:H1	36:BA:1112:G:H22	1.54	0.53
36:BA:1316:U:H2'	36:BA:1317:A:C8	2.43	0.53
36:BA:1775:U:H2'	36:BA:1776:G:C4'	2.38	0.53
36:BA:2110:G:N2	36:BA:2178:C:C5	2.76	0.53
36:BA:2282:G:H4'	36:BA:2283:C:O5'	2.06	0.53
36:BA:2547:U:O2	47:BO:23:ARG:NH1	2.41	0.53
36:BA:2893:G:C5'	36:BA:2894:G:H5'	2.36	0.53
39:BD:24:ILE:CG1	39:BD:25:THR:N	2.67	0.53
40:BE:192:ASN:HD22	40:BE:192:ASN:C	2.16	0.53
46:BN:71:ILE:HG22	46:BN:72:TYR:N	2.24	0.53
46:BN:134:ARG:H	46:BN:135:PRO:HD3	1.72	0.53
53:BU:32:PHE:O	53:BU:36:ARG:HB2	2.09	0.53
53:BU:59:ARG:O	53:BU:60:LEU:C	2.52	0.53
58:BZ:6:LYS:HD3	58:BZ:6:LYS:N	2.24	0.53
1:CA:218:C:H5'	1:CA:470:C:N4	2.23	0.53
1:CA:792:A:O2'	1:CA:793:U:OP2	2.27	0.53
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.35	0.53
1:CA:1330:U:H4'	13:CM:23:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1373:G:H5''	7:CG:36:LYS:HD2	1.89	0.53
2:CB:16:HIS:HB3	2:CB:210:SER:OG	2.09	0.53
2:CB:24:TRP:CZ3	2:CB:26:PRO:CA	2.87	0.53
2:CB:39:ILE:HG22	2:CB:40:HIS:H	1.73	0.53
2:CB:219:VAL:HA	2:CB:222:ILE:HG12	1.90	0.53
4:CD:35:ARG:HB3	4:CD:36:ARG:HD2	1.90	0.53
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.08	0.53
5:CE:105:VAL:H	5:CE:106:PRO:CD	2.18	0.53
6:CF:101:ALA:OXT	18:CR:28:GLU:HG2	2.08	0.53
7:CG:116:ALA:O	7:CG:117:ALA:C	2.50	0.53
7:CG:145:ALA:O	7:CG:146:GLU:C	2.51	0.53
14:CN:21:TYR:OH	14:CN:23:ARG:NH2	2.39	0.53
17:CQ:29:HIS:ND1	17:CQ:32:TYR:N	2.48	0.53
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE2	2.43	0.53
19:CS:40:ILE:HG22	19:CS:67:VAL:HG13	1.89	0.53
20:CT:89:ARG:HH21	20:CT:104:LEU:HD21	1.74	0.53
25:CZ:19:HIS:CG	25:CZ:115:GLN:HB2	2.44	0.53
25:CZ:145:GLU:O	25:CZ:149:LEU:N	2.39	0.53
32:D6:12:GLU:CD	32:D6:54:ILE:CG2	2.79	0.53
33:D7:39:ARG:HD3	36:DA:458:G:O2'	2.08	0.53
36:DA:94:C:H3'	36:DA:94(A):G:C8	2.43	0.53
36:DA:1199:U:H3	36:DA:1246:A:H61	1.56	0.53
36:DA:1217:C:H2'	36:DA:1218:C:C6	2.44	0.53
36:DA:1772:G:N2	36:DA:1774:C:H5''	2.24	0.53
36:DA:1971:A:C2	39:DD:240:ALA:HA	2.43	0.53
36:DA:2223:G:H2'	36:DA:2224:G:H5'	1.91	0.53
36:DA:2543:G:H8	36:DA:2543:G:H5'	1.73	0.53
36:DA:2764:A:C2	36:DA:2766:G:H1'	2.43	0.53
39:DD:30:GLU:HB3	39:DD:35:LYS:HG3	1.90	0.53
41:DF:38:ARG:O	41:DF:42:ALA:HB2	2.08	0.53
58:DZ:28:MET:SD	58:DZ:33:LEU:HG	2.48	0.53
58:DZ:57:ILE:N	58:DZ:57:ILE:CD1	2.70	0.53
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.44	0.53
1:AA:602:A:H2'	1:AA:603:U:C6	2.44	0.53
1:AA:658:G:H2'	1:AA:659:U:C6	2.43	0.53
1:AA:737:A:OP1	6:AF:92:LYS:N	2.41	0.53
1:AA:829:G:O2'	1:AA:830:G:H5'	2.07	0.53
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.39	0.53
1:AA:1170:A:H2'	1:AA:1171:G:C5'	2.38	0.53
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.92	0.53
1:AA:1360:A:O2'	1:AA:1361:G:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.09	0.53
1:AA:1495:U:H2'	1:AA:1496:C:C6	2.44	0.53
4:AD:35:ARG:HB3	4:AD:36:ARG:HD2	1.91	0.53
5:AE:12:LEU:O	5:AE:12:LEU:HD13	2.09	0.53
5:AE:36:ASP:O	5:AE:37:ARG:C	2.50	0.53
8:AH:14:ARG:CB	8:AH:14:ARG:NH1	2.72	0.53
11:AK:57:THR:CG2	11:AK:60:ALA:H	2.22	0.53
13:AM:120:LYS:HA	13:AM:120:LYS:NZ	2.24	0.53
18:AR:44:LEU:O	18:AR:45:SER:C	2.52	0.53
20:AT:94:ALA:O	20:AT:95:ALA:CB	2.57	0.53
22:AV:41:C:H2'	22:AV:42:C:H5'	1.91	0.53
22:AV:54:U:H2'	22:AV:55:U:H5'	1.90	0.53
25:AZ:26:THR:HG21	62:AZ:501:GDP:H8	1.73	0.53
25:AZ:92:MET:SD	25:AZ:119:HIS:CD2	3.02	0.53
25:AZ:254:GLU:HG3	25:AZ:307:PRO:HA	1.90	0.53
25:AZ:325:LYS:HB2	25:AZ:331:HIS:HA	1.90	0.53
26:B0:62:LEU:N	26:B0:62:LEU:HD23	2.22	0.53
32:B6:6:ARG:HH12	32:B6:7:ILE:HG13	1.73	0.53
32:B6:18:ARG:HE	32:B6:43:CYS:HB3	1.74	0.53
33:B7:11:LYS:O	33:B7:12:ARG:C	2.51	0.53
36:BA:31:C:C3'	36:BA:32:C:H5''	2.37	0.53
36:BA:464:U:H2'	36:BA:465:G:O4'	2.08	0.53
36:BA:718:A:C2'	36:BA:719:C:H5'	2.37	0.53
36:BA:956:G:OP2	49:BQ:87:LYS:HE2	2.09	0.53
36:BA:1342:A:N1	36:BA:1345:C:C4	2.76	0.53
36:BA:1431:U:H2'	36:BA:1432:C:H5'	1.89	0.53
36:BA:1680:U:H2'	36:BA:1681:G:O4'	2.09	0.53
36:BA:1856:G:O2'	36:BA:1857:G:H5'	2.08	0.53
36:BA:2041:U:H2'	36:BA:2042:A:C8	2.42	0.53
36:BA:2190:G:N3	36:BA:2190:G:H2'	2.22	0.53
36:BA:2790:A:N3	36:BA:2790:A:H2'	2.23	0.53
36:BA:2839:G:H5'	50:BR:46:GLY:HA2	1.90	0.53
38:BC:214:VAL:CG2	38:BC:224:ILE:HG21	2.32	0.53
40:BE:23:VAL:CG1	40:BE:173:VAL:HG21	2.39	0.53
40:BE:142:GLY:C	40:BE:143:ASN:ND2	2.67	0.53
42:BG:161:THR:C	42:BG:163:ALA:N	2.61	0.53
43:BH:155:SER:O	43:BH:157:TYR:N	2.40	0.53
46:BN:1:MET:HE2	46:BN:2:LYS:N	2.24	0.53
46:BN:55:VAL:O	46:BN:56:ASN:C	2.51	0.53
47:BO:80:ASP:OD2	52:BT:71:GLY:HA3	2.09	0.53
51:BS:90:GLY:O	51:BS:92:TYR:HD1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:61:ASN:O	55:BW:62:HIS:ND1	2.41	0.53
58:BZ:44:PHE:CD1	58:BZ:44:PHE:C	2.86	0.53
58:BZ:60:GLU:HA	58:BZ:66:SER:CA	2.38	0.53
1:CA:444:C:H2'	1:CA:445:G:C8	2.44	0.53
1:CA:542:G:H2'	1:CA:543:C:H6	1.74	0.53
1:CA:780:A:H2	1:CA:802:A:N7	2.07	0.53
1:CA:858:G:H22	1:CA:869:G:H3'	1.73	0.53
1:CA:876:G:H2'	1:CA:877:C:C6	2.44	0.53
1:CA:1468:A:H3'	1:CA:1469:G:H8	1.74	0.53
1:CA:1517:G:H2'	1:CA:1518:A:O4'	2.09	0.53
2:CB:74:LYS:NZ	2:CB:76:GLN:HB2	2.22	0.53
4:CD:79:PHE:HA	4:CD:93:PHE:HD2	1.71	0.53
8:CH:6:ILE:O	8:CH:9:MET:N	2.41	0.53
8:CH:17:THR:HB	8:CH:78:GLN:CD	2.33	0.53
8:CH:64:LYS:C	8:CH:65:TYR:CD1	2.86	0.53
13:CM:57:ARG:CG	13:CM:61:GLU:HB2	2.36	0.53
15:CO:81:LEU:O	15:CO:82:ILE:C	2.51	0.53
19:CS:42:PRO:O	19:CS:43:GLU:HB3	2.08	0.53
25:CZ:70:TYR:CD1	25:CZ:70:TYR:C	2.87	0.53
25:CZ:258:LEU:HD23	25:CZ:376:LYS:CB	2.38	0.53
36:DA:181:A:C2	36:DA:182:A:C4	2.96	0.53
36:DA:416:C:H42	36:DA:2407:G:H1	1.55	0.53
36:DA:479:A:O2'	36:DA:481:G:H8	1.92	0.53
36:DA:532:A:H5''	53:DU:28:ARG:NH1	2.23	0.53
36:DA:996:A:C5'	53:DU:94:ASN:HB2	2.37	0.53
36:DA:1361:G:N2	36:DA:1371:G:H1'	2.23	0.53
36:DA:1437:C:H2'	36:DA:1437:C:O2	2.07	0.53
36:DA:1667:G:O2'	36:DA:1991:U:O4	2.25	0.53
36:DA:1902:C:H4'	39:DD:244:ARG:CB	2.39	0.53
36:DA:2111:C:H2'	36:DA:2112:G:H5''	1.90	0.53
36:DA:2337:G:H2'	36:DA:2338:G:C8	2.42	0.53
36:DA:2589:A:H2'	36:DA:2590:A:C8	2.43	0.53
38:DC:65:PRO:HD2	38:DC:188:ASN:OD1	2.08	0.53
39:DD:210:GLY:O	39:DD:211:ARG:CB	2.54	0.53
40:DE:36:ARG:C	40:DE:37:ARG:HG2	2.33	0.53
41:DF:187:VAL:HG12	48:DP:7:ARG:HA	1.90	0.53
42:DG:6:ALA:O	42:DG:10:LYS:N	2.41	0.53
48:DP:30:THR:CG2	48:DP:31:ALA:N	2.71	0.53
51:DS:61:ASN:OD1	51:DS:62:LYS:N	2.41	0.53
52:DT:38:ASN:ND2	52:DT:38:ASN:O	2.41	0.53
52:DT:57:PHE:HE2	52:DT:79:HIS:HD1	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:37:ARG:HH11	55:DW:37:ARG:CG	2.21	0.53
58:DZ:130:PRO:CA	58:DZ:133:ILE:HD11	2.32	0.53
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.89	0.53
1:AA:346:G:C5'	52:BT:41:ARG:HH21	2.17	0.53
1:AA:686:U:H2'	1:AA:687:A:C8	2.43	0.53
1:AA:1260:C:H3'	1:AA:1260:C:C6	2.43	0.53
1:AA:1396:A:H4'	1:AA:1397:C:H5'	1.90	0.53
3:AC:102:ASN:O	3:AC:103:VAL:HG23	2.08	0.53
7:AG:17:VAL:HG12	7:AG:18:TYR:N	2.24	0.53
8:AH:77:GLU:HG3	8:AH:78:GLN:N	2.23	0.53
9:AI:82:ALA:HA	9:AI:85:LEU:HD11	1.89	0.53
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.39	0.53
11:AK:89:ALA:C	11:AK:91:ARG:N	2.65	0.53
13:AM:93:ARG:HG3	36:BA:888:C:OP2	2.09	0.53
14:AN:7:ILE:CG1	14:AN:8:GLU:N	2.71	0.53
17:AQ:61:GLU:HA	17:AQ:71:PHE:CD1	2.44	0.53
19:AS:44:MET:CA	19:AS:47:HIS:HD2	2.08	0.53
22:AV:58:A:O2'	22:AV:59:U:H2'	2.09	0.53
24:AY:28:A:H2'	24:AY:29:C:C6	2.44	0.53
27:B1:63:ALA:O	27:B1:64:ALA:C	2.51	0.53
32:B6:27:LYS:CG	32:B6:30:THR:CB	2.80	0.53
34:B8:28:GLY:C	34:B8:30:ARG:H	2.17	0.53
36:BA:48:G:H22	36:BA:177:G:H21	1.54	0.53
36:BA:74:A:H5''	36:BA:75:G:C1'	2.38	0.53
36:BA:107:C:H1'	36:BA:294:A:N3	2.23	0.53
36:BA:272(J):C:H2'	36:BA:274:G:H5''	1.91	0.53
36:BA:416:C:H42	36:BA:2407:G:H1	1.56	0.53
36:BA:419:C:H2'	36:BA:420:C:H6	1.74	0.53
36:BA:784:A:HO2'	36:BA:785:G:H8	1.57	0.53
36:BA:955:C:OP1	49:BQ:87:LYS:HE3	2.09	0.53
36:BA:1090:U:O4	36:BA:1102:C:H1'	2.08	0.53
36:BA:1130:U:O2'	36:BA:1131:G:H2'	2.08	0.53
36:BA:1186:G:C2'	36:BA:1187:G:H5'	2.38	0.53
36:BA:1221(A):C:H42	36:BA:1228:G:H1	1.55	0.53
36:BA:1275:A:N7	50:BR:16:HIS:HB2	2.23	0.53
36:BA:1308:A:H2'	36:BA:1309:G:O4'	2.08	0.53
36:BA:1328:G:H8	36:BA:1328:G:O5'	1.91	0.53
36:BA:1458:C:C4'	36:BA:1459:G:O4'	2.56	0.53
36:BA:1542:A:H8	36:BA:1542:A:H3'	1.74	0.53
36:BA:2073:C:H2'	36:BA:2074:U:C6	2.43	0.53
36:BA:2140:C:H2'	36:BA:2141:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2457:U:O2'	36:BA:2458:G:H5'	2.07	0.53
36:BA:2711:A:OP1	36:BA:2712(A):A:P	2.67	0.53
39:BD:24:ILE:HG23	39:BD:25:THR:H	1.72	0.53
39:BD:210:GLY:O	39:BD:211:ARG:CB	2.57	0.53
39:BD:259:THR:O	39:BD:260:ARG:C	2.50	0.53
41:BF:107:LYS:O	41:BF:110:LEU:HB3	2.09	0.53
43:BH:136:ILE:HD12	43:BH:136:ILE:H	1.72	0.53
52:BT:23:ARG:HG2	52:BT:120:ARG:NH1	2.24	0.53
52:BT:32:TYR:CD1	52:BT:81:PRO:HB3	2.44	0.53
53:BU:94:ASN:ND2	53:BU:95:LEU:HG	2.24	0.53
53:BU:113:ALA:C	53:BU:115:ALA:H	2.16	0.53
1:CA:539:A:H2'	1:CA:540:G:C8	2.43	0.53
1:CA:571:U:O2	1:CA:918:A:H5'	2.09	0.53
1:CA:642:A:N7	8:CH:115:SER:HA	2.24	0.53
1:CA:686:U:H2'	1:CA:687:A:C8	2.43	0.53
1:CA:1170:A:H2'	1:CA:1171:G:C5'	2.38	0.53
2:CB:35:GLU:HA	2:CB:39:ILE:O	2.08	0.53
3:CC:95:THR:O	3:CC:97:LYS:N	2.42	0.53
8:CH:25:ASP:O	8:CH:26:VAL:CB	2.55	0.53
9:CI:128:ARG:HG2	9:CI:128:ARG:OXT	2.08	0.53
10:CJ:18:ALA:O	10:CJ:21:GLN:N	2.42	0.53
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.62	0.53
16:CP:59:TRP:O	16:CP:64:ALA:HB2	2.08	0.53
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.50	0.53
25:CZ:145:GLU:O	25:CZ:146:LEU:C	2.52	0.53
25:CZ:310:ILE:HG21	25:CZ:379:ALA:HB1	1.89	0.53
32:D6:28:ARG:O	32:D6:29:ASN:C	2.52	0.53
33:D7:11:LYS:HE2	36:DA:686:G:C2	2.43	0.53
33:D7:31:LEU:C	33:D7:33:ARG:N	2.67	0.53
36:DA:64:A:H2'	36:DA:65:C:O4'	2.08	0.53
36:DA:233:A:H2'	36:DA:234:C:O4'	2.08	0.53
36:DA:329:G:H1	57:DY:19:LYS:CE	2.21	0.53
36:DA:809:G:O4'	36:DA:1254:A:H1'	2.09	0.53
36:DA:1036:G:C2	36:DA:1120:G:C6	2.97	0.53
36:DA:1761:C:H2'	36:DA:1762:A:H8	1.72	0.53
36:DA:1791:A:H3'	36:DA:1792:G:H8	1.74	0.53
36:DA:1973:G:H2'	36:DA:1974:C:C6	2.44	0.53
38:DC:25:ALA:O	38:DC:28:LEU:N	2.42	0.53
38:DC:50:ASP:OD1	38:DC:51:PRO:HD2	2.09	0.53
38:DC:134:ARG:O	38:DC:135:GLY:C	2.51	0.53
42:DG:172:LEU:O	42:DG:172:LEU:HD23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:3:THR:C	46:DN:4:TYR:CG	2.87	0.53
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.08	0.53
50:DR:38:VAL:HB	50:DR:39:PRO:CD	2.34	0.53
51:DS:66:ALA:CA	51:DS:99:LYS:HD3	2.38	0.53
52:DT:61:PHE:HD2	52:DT:61:PHE:H	1.57	0.53
53:DU:65:ILE:HG13	53:DU:96:ALA:HB1	1.91	0.53
56:DX:33:LYS:HD3	56:DX:33:LYS:N	2.23	0.53
58:DZ:58:VAL:HG13	58:DZ:67:LEU:C	2.34	0.53
58:DZ:132:ASN:O	58:DZ:133:ILE:HD13	2.08	0.53
1:AA:191:G:H2'	1:AA:192:U:C6	2.44	0.53
1:AA:495:A:N6	4:AD:119:GLN:HE22	2.07	0.53
1:AA:686:U:O4	1:AA:703:G:H1'	2.09	0.53
1:AA:838:G:C5	1:AA:840:C:H1'	2.43	0.53
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	2.09	0.53
1:AA:1272:G:C2	1:AA:1273:G:H1'	2.44	0.53
1:AA:1352:C:O2	1:AA:1371:G:C2	2.62	0.53
2:AB:107:THR:HA	2:AB:110:GLN:NE2	2.23	0.53
2:AB:130:ARG:CZ	2:AB:131:PRO:HD2	2.39	0.53
3:AC:114:PRO:N	3:AC:185:GLY:HA3	2.23	0.53
4:AD:5:ILE:O	4:AD:5:ILE:HG22	2.08	0.53
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.23	0.53
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.77	0.53
11:AK:120:ARG:HH12	11:AK:126:ARG:CD	2.21	0.53
13:AM:14:ARG:HB2	13:AM:17:VAL:HG23	1.91	0.53
14:AN:12:ARG:HB3	14:AN:14:PRO:CG	2.39	0.53
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.72	0.53
17:AQ:60:ILE:O	17:AQ:71:PHE:HD1	1.92	0.53
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.36	0.53
20:AT:23:ARG:HH11	20:AT:23:ARG:HG2	1.73	0.53
33:B7:31:LEU:C	33:B7:33:ARG:N	2.67	0.53
36:BA:7:G:H21	36:BA:8:A:H1'	1.72	0.53
36:BA:17:G:H21	36:BA:555:U:C5'	2.22	0.53
36:BA:272(E):G:H2'	36:BA:272(F):C:H5'	1.91	0.53
36:BA:769:G:H2'	36:BA:770:G:C8	2.44	0.53
36:BA:936:C:H2'	36:BA:937:U:C6	2.42	0.53
36:BA:1036:G:C2	36:BA:1120:G:C6	2.97	0.53
36:BA:1914:C:H2'	36:BA:1915:U:O4'	2.08	0.53
36:BA:1949:G:C6	36:BA:1950:G:C6	2.97	0.53
36:BA:2290:G:C2	36:BA:2343:C:O2	2.62	0.53
36:BA:2329:G:O2'	36:BA:2330:G:H5'	2.09	0.53
38:BC:130:ILE:C	38:BC:132:GLY:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:131:LEU:HB3	38:BC:136:LEU:CB	2.37	0.53
38:BC:189:ILE:O	38:BC:192:PHE:HB3	2.09	0.53
39:BD:30:GLU:OE1	39:BD:63:ARG:HD3	2.09	0.53
39:BD:91:ARG:HG2	39:BD:91:ARG:NH1	2.21	0.53
40:BE:110:GLY:O	50:BR:2:ARG:HG2	2.09	0.53
46:BN:3:THR:CG2	46:BN:4:TYR:H	2.14	0.53
49:BQ:78:PRO:O	49:BQ:79:LEU:C	2.52	0.53
50:BR:24:GLN:C	50:BR:26:LYS:N	2.64	0.53
52:BT:13:ARG:NH2	52:BT:15:VAL:HG11	2.24	0.53
52:BT:57:PHE:HE2	52:BT:79:HIS:HD1	1.56	0.53
52:BT:62:THR:HG22	52:BT:75:ILE:CG2	2.37	0.53
56:BX:10:ALA:HB3	56:BX:29:TRP:CD1	2.44	0.53
57:BY:21:LYS:HG2	57:BY:21:LYS:O	2.08	0.53
57:BY:37:VAL:CG2	57:BY:38:ILE:N	2.67	0.53
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	2.39	0.53
1:CA:321:A:H62	1:CA:328:C:H1'	1.73	0.53
1:CA:329:A:H2'	1:CA:332:G:O6	2.08	0.53
1:CA:838:G:C5	1:CA:840:C:H1'	2.44	0.53
1:CA:866:C:N4	1:CA:873:A:H2	2.07	0.53
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.09	0.53
1:CA:1462:G:C6	1:CA:1463:C:C4	2.96	0.53
2:CB:8:LYS:HZ3	2:CB:217:ARG:CZ	2.22	0.53
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.44	0.53
2:CB:182:ILE:O	2:CB:184:VAL:HG23	2.09	0.53
2:CB:200:ILE:CG2	2:CB:202:PRO:HD3	2.39	0.53
2:CB:204:ASN:HD21	2:CB:206:ASP:N	2.05	0.53
3:CC:113:ALA:O	3:CC:115:LEU:N	2.42	0.53
4:CD:5:ILE:O	4:CD:5:ILE:HG22	2.08	0.53
4:CD:24:GLU:H	4:CD:112:VAL:CG2	2.22	0.53
4:CD:99:SER:O	4:CD:140:VAL:HG23	2.09	0.53
5:CE:103:GLY:O	5:CE:107:ARG:HB3	2.09	0.53
7:CG:105:VAL:HG12	7:CG:109:ASN:HD22	1.73	0.53
15:CO:18:PHE:O	15:CO:19:PRO:C	2.50	0.53
15:CO:36:ILE:HG23	15:CO:56:LEU:CD1	2.32	0.53
17:CQ:40:LYS:HD3	17:CQ:42:TYR:CZ	2.44	0.53
19:CS:67:VAL:C	19:CS:69:HIS:H	2.17	0.53
25:CZ:191:GLY:HA2	25:CZ:196:VAL:CG1	2.37	0.53
28:D2:65:ASN:O	28:D2:68:ARG:N	2.41	0.53
36:DA:183:C:O2'	36:DA:184:C:H5'	2.09	0.53
36:DA:363:G:N1	36:DA:363(A):A:N7	2.56	0.53
36:DA:494:G:H2'	36:DA:494:G:N3	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:716:A:C2'	36:DA:717:G:H5''	2.39	0.53
36:DA:1051:G:OP1	36:DA:2752:C:H1'	2.07	0.53
36:DA:1171:G:N7	36:DA:1173:G:H1'	2.24	0.53
36:DA:1316:U:H2'	36:DA:1317:A:C8	2.43	0.53
36:DA:1957:C:O2'	36:DA:1985:G:H1'	2.09	0.53
36:DA:2097:C:O2'	36:DA:2098:U:H5'	2.08	0.53
36:DA:2126:A:H5'	38:DC:37:PHE:CE2	2.44	0.53
36:DA:2796:U:C2'	36:DA:2799:C:H5'	2.39	0.53
36:DA:2880:C:H3'	36:DA:2880:C:H6	1.72	0.53
41:DF:8:GLN:O	41:DF:10:PRO:HD3	2.08	0.53
46:DN:28:THR:CG2	46:DN:29:LYS:N	2.61	0.53
50:DR:28:LEU:HA	50:DR:34:ILE:CG1	2.39	0.53
52:DT:23:ARG:O	52:DT:24:PRO:C	2.52	0.53
52:DT:64:ARG:HA	52:DT:72:VAL:O	2.08	0.53
53:DU:3:ARG:NH1	53:DU:5:LYS:HB3	2.23	0.53
53:DU:9:VAL:O	53:DU:12:ARG:HB2	2.08	0.53
53:DU:95:LEU:HD12	54:DV:11:GLN:NE2	2.20	0.53
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.22	0.53
55:DW:41:LYS:O	55:DW:43:GLY:N	2.42	0.53
57:DY:29:GLU:CD	57:DY:38:ILE:HG21	2.33	0.53
58:DZ:141:VAL:HA	58:DZ:144:LEU:CD2	2.22	0.53
1:AA:630:G:H2'	1:AA:630:G:N3	2.23	0.53
1:AA:977:A:H8	1:AA:982:U:O4	1.91	0.53
1:AA:1316:G:H4'	14:AN:18:VAL:HG11	1.91	0.53
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.38	0.53
1:AA:1420:C:N4	1:AA:1480:G:H1	1.99	0.53
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.92	0.53
5:AE:20:GLN:O	5:AE:22:GLY:N	2.42	0.53
8:AH:29:SER:CB	8:AH:32:LYS:HB2	2.38	0.53
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.90	0.53
9:AI:9:ARG:CB	9:AI:104:ARG:HH12	2.17	0.53
9:AI:28:VAL:O	9:AI:29:ASN:C	2.49	0.53
10:AJ:29:ARG:HG2	10:AJ:29:ARG:O	2.09	0.53
11:AK:125:PHE:C	11:AK:127:LYS:N	2.65	0.53
19:AS:40:ILE:HG22	19:AS:67:VAL:HG13	1.91	0.53
22:AV:18:G:H4'	22:AV:60:U:O2	2.07	0.53
25:AZ:199:ILE:HG22	25:AZ:203:LEU:HD12	1.90	0.53
27:B1:40:ARG:HG3	27:B1:41:ARG:H	1.74	0.53
31:B5:6:VAL:O	31:B5:6:VAL:HG13	2.08	0.53
32:B6:6:ARG:C	32:B6:8:LYS:H	2.16	0.53
34:B8:61:LEU:C	34:B8:63:PRO:HD2	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:372:G:O2'	36:BA:373:U:OP2	2.27	0.53
36:BA:484:C:H2'	36:BA:485:C:C6	2.44	0.53
36:BA:814:C:H2'	36:BA:815:C:H6	1.73	0.53
36:BA:874:G:O2'	36:BA:875:G:H5'	2.09	0.53
36:BA:1343:G:C2	36:BA:1405:U:N3	2.77	0.53
36:BA:1358:G:O2'	36:BA:1359:A:H5''	2.09	0.53
36:BA:1722:A:O2'	36:BA:1739:U:H5'	2.08	0.53
36:BA:2260:C:N4	36:BA:2280:G:H1	2.07	0.53
36:BA:2497:A:H8	36:BA:2497:A:OP2	1.91	0.53
36:BA:2593:U:H2'	36:BA:2594:C:H6	1.74	0.53
37:BB:77:U:O2	37:BB:77:U:H2'	2.09	0.53
37:BB:79:C:C2'	37:BB:80:U:H5'	2.38	0.53
38:BC:214:VAL:CG2	38:BC:224:ILE:HD13	2.37	0.53
39:BD:145:VAL:HG12	39:BD:146:GLU:N	2.23	0.53
39:BD:249:PRO:HG2	39:BD:250:TRP:N	2.24	0.53
41:BF:9:ILE:HA	41:BF:14:PRO:O	2.09	0.53
42:BG:74:LYS:HD2	42:BG:74:LYS:N	2.23	0.53
43:BH:37:VAL:HG11	43:BH:68:THR:HG21	1.91	0.53
43:BH:83:TYR:O	43:BH:84:SER:C	2.52	0.53
48:BP:130:PHE:N	48:BP:130:PHE:HD2	2.04	0.53
51:BS:29:PHE:C	51:BS:29:PHE:CD2	2.84	0.53
51:BS:97:ARG:O	51:BS:99:LYS:HG2	2.09	0.53
52:BT:23:ARG:CG	52:BT:120:ARG:NH1	2.72	0.53
53:BU:52:ARG:NH2	53:BU:55:ARG:NH2	2.56	0.53
53:BU:86:ALA:O	53:BU:88:ILE:HG23	2.09	0.53
58:BZ:105:VAL:O	58:BZ:105:VAL:HG13	2.08	0.53
1:CA:90:U:H4'	1:CA:91:C:C6	2.44	0.53
1:CA:106:C:O2	1:CA:379:C:H4'	2.09	0.53
1:CA:453:A:O2'	1:CA:454:C:O4'	2.27	0.53
1:CA:602:A:H2'	1:CA:603:U:C6	2.44	0.53
1:CA:607:A:H2'	1:CA:608:A:O4'	2.09	0.53
1:CA:705:U:C5	1:CA:706:A:C5	2.97	0.53
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.90	0.53
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.39	0.53
1:CA:1465:C:C5	1:CA:1466:C:C4	2.97	0.53
2:CB:8:LYS:CD	2:CB:217:ARG:NH2	2.72	0.53
3:CC:26:LYS:CG	3:CC:27:LYS:H	2.22	0.53
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.09	0.53
12:CL:34:ARG:HG2	12:CL:35:GLY:N	2.23	0.53
13:CM:106:ASN:O	13:CM:107:ALA:HB2	2.09	0.53
15:CO:27:VAL:O	15:CO:28:GLN:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:82:ILE:CG2	15:CO:83:GLU:H	2.13	0.53
18:CR:75:ILE:C	18:CR:77:GLY:N	2.65	0.53
20:CT:19:SER:O	20:CT:20:LEU:C	2.51	0.53
22:CW:74:C:C5	22:CW:75:C:C4	2.97	0.53
27:D1:45:ASN:HB2	36:DA:397:G:H5'	1.89	0.53
34:D8:26:LYS:HB2	34:D8:44:LYS:HG3	1.90	0.53
35:D9:9:ARG:O	35:D9:11:CYS:N	2.42	0.53
36:DA:95:G:H2'	36:DA:96:G:O4'	2.08	0.53
36:DA:705:A:C2	36:DA:727:A:H1'	2.44	0.53
36:DA:1141:U:H5	46:DN:64:GLY:HA3	1.74	0.53
36:DA:1268:A:H2'	36:DA:1269:A:H8	1.74	0.53
36:DA:1458:C:C4'	36:DA:1459:G:O4'	2.57	0.53
36:DA:1491:G:H5'	39:DD:99:ASP:OD1	2.09	0.53
36:DA:1551:C:H2'	36:DA:1552:G:C5'	2.38	0.53
36:DA:2567:G:H2'	36:DA:2568:C:H6	1.74	0.53
36:DA:2628:C:H5'	36:DA:2781:A:C6	2.44	0.53
36:DA:2684:U:O5'	36:DA:2684:U:H6	1.91	0.53
41:DF:3:GLU:O	41:DF:24:LEU:HG	2.09	0.53
41:DF:31:HIS:CD2	48:DP:13:ASN:HB2	2.44	0.53
41:DF:122:LYS:HE3	41:DF:122:LYS:N	2.24	0.53
42:DG:59:GLU:CD	42:DG:153:ARG:HH21	2.15	0.53
46:DN:89:LYS:C	46:DN:93:THR:HG22	2.34	0.53
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.91	0.53
49:DQ:87:LYS:O	49:DQ:88:GLY:O	2.26	0.53
52:DT:47:GLY:HA3	52:DT:65:LYS:HB2	1.91	0.53
54:DV:58:VAL:HG12	54:DV:59:ALA:N	2.23	0.53
55:DW:39:THR:O	55:DW:44:ALA:HB2	2.09	0.53
56:DX:7:VAL:O	56:DX:30:VAL:HA	2.09	0.53
57:DY:13:VAL:HG23	57:DY:74:PRO:HA	1.91	0.53
58:DZ:12:GLY:CA	58:DZ:36:LYS:HZ3	2.22	0.53
58:DZ:17:ALA:C	58:DZ:20:ARG:HG2	2.34	0.53
58:DZ:47:VAL:O	58:DZ:50:GLN:N	2.36	0.53
1:AA:39:G:O2'	1:AA:40:C:H5'	2.09	0.53
1:AA:202:U:O2'	1:AA:203:U:OP1	2.25	0.53
1:AA:347:G:N2	1:AA:348:G:C4	2.77	0.53
1:AA:453:A:O2'	1:AA:454:C:O4'	2.27	0.53
1:AA:651:C:H2'	1:AA:652:U:O4'	2.09	0.53
1:AA:968:A:C4	1:AA:1062:U:H4'	2.44	0.53
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.09	0.53
1:AA:1380:U:O2	7:AG:3:ARG:NH2	2.41	0.53
2:AB:39:ILE:HG22	2:AB:40:HIS:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:175:ARG:O	2:AB:176:GLU:C	2.52	0.53
3:AC:13:GLY:O	3:AC:14:ILE:CB	2.57	0.53
3:AC:48:TYR:O	3:AC:50:ALA:N	2.41	0.53
4:AD:201:GLN:HA	4:AD:204:ILE:CD1	2.35	0.53
7:AG:44:TYR:HE1	9:AI:41:VAL:HG11	1.74	0.53
8:AH:17:THR:C	8:AH:78:GLN:HE22	2.17	0.53
8:AH:40:ALA:CA	8:AH:45:ILE:HG13	2.39	0.53
17:AQ:53:LEU:HD23	17:AQ:53:LEU:C	2.34	0.53
18:AR:31:LEU:HD21	18:AR:65:ILE:HD12	1.91	0.53
22:AV:44:G:O2'	22:AV:45:U:H5'	2.08	0.53
22:AV:74:C:H2'	22:AV:75:C:H5'	1.90	0.53
24:AY:60:U:H5''	24:AY:61:C:H5	1.74	0.53
25:AZ:152:MET:CE	25:AZ:156:ASP:HB2	2.39	0.53
27:B1:34:THR:HG22	27:B1:35:THR:H	1.73	0.53
30:B4:42:PHE:O	30:B4:42:PHE:CD2	2.62	0.53
33:B7:11:LYS:HE2	36:BA:686:G:C2	2.44	0.53
33:B7:36:GLN:C	33:B7:38:GLY:N	2.65	0.53
36:BA:45:C:OP2	36:BA:215:G:H2'	2.09	0.53
36:BA:197:A:H5'	36:BA:197:A:H8	1.74	0.53
36:BA:363:G:N1	36:BA:363(A):A:N7	2.57	0.53
36:BA:494:G:H2'	36:BA:494:G:N3	2.24	0.53
36:BA:809:G:O2'	36:BA:810:U:H5'	2.08	0.53
36:BA:857:C:H5'	36:BA:858:U:OP2	2.08	0.53
36:BA:1092:C:H2'	36:BA:1093:G:O4'	2.08	0.53
36:BA:1666:G:H2'	36:BA:1667:G:O4'	2.08	0.53
36:BA:2303:G:O2'	42:BG:132:ASN:CB	2.56	0.53
36:BA:2306:C:H4'	42:BG:136:ARG:CZ	2.39	0.53
36:BA:2508:G:C2	36:BA:2582:G:O6	2.62	0.53
37:BB:42:C:O2'	37:BB:43:C:H6	1.91	0.53
37:BB:44:G:H4'	37:BB:45:A:N7	2.23	0.53
41:BF:160:ASN:HD21	41:BF:162:LEU:HD13	1.73	0.53
41:BF:182:ASN:OD1	41:BF:185:ASP:N	2.29	0.53
42:BG:177:GLY:O	42:BG:179:PRO:HD3	2.08	0.53
43:BH:149:ARG:HA	43:BH:162:ILE:HG23	1.91	0.53
45:BK:99:UNK:N	45:BK:135:UNK:CB	2.72	0.53
45:BK:129:UNK:C	45:BK:131:UNK:N	2.71	0.53
48:BP:23:PRO:HG2	48:BP:33:ARG:HE	1.74	0.53
52:BT:96:ARG:CZ	52:BT:96:ARG:HB2	2.39	0.53
54:BV:58:VAL:HG12	54:BV:59:ALA:N	2.23	0.53
55:BW:89:ALA:O	55:BW:92:ARG:HD2	2.09	0.53
57:BY:47:LYS:HA	57:BY:60:PHE:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:110:C:C2'	1:CA:111:G:H5'	2.39	0.53
1:CA:260:G:O2'	1:CA:261:U:H5'	2.08	0.53
1:CA:594:G:C2'	1:CA:595:G:H5'	2.38	0.53
1:CA:642:A:H2'	1:CA:643:C:C6	2.43	0.53
1:CA:1004:A:N6	1:CA:1035:A:C5	2.77	0.53
2:CB:31:TYR:HE1	2:CB:200:ILE:HG12	1.74	0.53
7:CG:31:MET:C	7:CG:32:ARG:HG3	2.33	0.53
8:CH:77:GLU:HG3	8:CH:78:GLN:N	2.24	0.53
25:CZ:226:GLU:HG3	25:CZ:240:GLY:CA	2.39	0.53
27:D1:55:GLY:O	27:D1:57:GLU:N	2.41	0.53
27:D1:71:TYR:O	27:D1:74:VAL:N	2.41	0.53
31:D5:5:PRO:CA	36:DA:2056:G:H22	2.21	0.53
35:D9:19:ARG:O	35:D9:21:GLY:N	2.38	0.53
36:DA:25:U:H5''	55:DW:79:GLY:HA2	1.90	0.53
36:DA:440:G:H22	41:DF:46:ARG:HH21	1.54	0.53
36:DA:614(A):U:H4'	36:DA:614(B):G:H5''	1.91	0.53
36:DA:657:U:C2	36:DA:658:C:C5	2.97	0.53
36:DA:904:C:H6	36:DA:904:C:OP2	1.91	0.53
36:DA:1064:C:C2'	36:DA:1065:U:H5''	2.40	0.53
36:DA:1131:G:C8	36:DA:2025:C:H4'	2.44	0.53
36:DA:1170:G:H1	36:DA:1179:C:H42	1.56	0.53
36:DA:1741:A:H3'	36:DA:1742:G:H8	1.74	0.53
36:DA:2537:U:H2'	36:DA:2538:C:C6	2.44	0.53
36:DA:2547:U:H1'	47:DO:28:SER:O	2.09	0.53
36:DA:2620:C:C1'	40:DE:156:MET:HB2	2.39	0.53
39:DD:170:GLY:C	39:DD:172:TYR:H	2.17	0.53
40:DE:11:MET:HB2	40:DE:23:VAL:O	2.09	0.53
41:DF:118:ALA:CB	41:DF:123:LEU:HD22	2.39	0.53
42:DG:39:ILE:HA	42:DG:156:ASP:O	2.08	0.53
42:DG:162:THR:O	42:DG:164:GLU:HG3	2.08	0.53
46:DN:13:TRP:O	46:DN:135:PRO:HD2	2.09	0.53
46:DN:108:PRO:HG2	46:DN:113:GLY:CA	2.39	0.53
49:DQ:44:ALA:HA	49:DQ:47:ILE:CD1	2.36	0.53
51:DS:84:GLN:CA	51:DS:105:ALA:HB3	2.38	0.53
52:DT:64:ARG:NH1	52:DT:102:ILE:HD11	2.24	0.53
55:DW:89:ALA:O	55:DW:92:ARG:HD2	2.08	0.53
56:DX:22:ALA:HB1	56:DX:23:GLU:OE2	2.08	0.53
58:DZ:45:ASP:O	58:DZ:48:PHE:N	2.41	0.53
1:AA:295:C:H2'	1:AA:296:U:C6	2.33	0.52
1:AA:676:A:H5''	11:AK:113:PRO:HB2	1.89	0.52
1:AA:826:C:H2'	1:AA:827:U:C6	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	2.09	0.52
4:AD:92:VAL:O	4:AD:93:PHE:C	2.52	0.52
7:AG:26:PHE:O	7:AG:27:ILE:C	2.52	0.52
7:AG:105:VAL:HG12	7:AG:109:ASN:HD22	1.73	0.52
8:AH:86:ILE:CG2	8:AH:133:LEU:HD23	2.34	0.52
13:AM:124:PRO:O	13:AM:126:LYS:N	2.41	0.52
14:AN:19:ARG:O	14:AN:20:ALA:O	2.26	0.52
22:AW:66:U:H2'	22:AW:67:C:C6	2.44	0.52
25:AZ:234:ARG:NE	25:AZ:289:LEU:HD22	2.24	0.52
25:AZ:325:LYS:HG3	25:AZ:331:HIS:HB3	1.90	0.52
36:BA:601:C:O2	36:BA:605:C:C5'	2.56	0.52
36:BA:1053:C:O2'	36:BA:1054:A:H5'	2.09	0.52
36:BA:1192:G:H8	36:BA:1192:G:O5'	1.92	0.52
36:BA:1217:C:OP2	53:BU:15:LYS:NZ	2.42	0.52
36:BA:1327:C:N4	36:BA:1647:G:N2	2.50	0.52
36:BA:2127:G:C6	36:BA:2128:C:N4	2.76	0.52
37:BB:79:C:H2'	37:BB:80:U:O4'	2.08	0.52
38:BC:75:LEU:CD1	38:BC:113:VAL:HA	2.40	0.52
39:BD:121:PRO:HB3	39:BD:135:PHE:CE2	2.44	0.52
39:BD:147:LEU:CD1	39:BD:183:ARG:NH1	2.45	0.52
39:BD:232:PRO:HG2	39:BD:248:SER:O	2.09	0.52
40:BE:55:ASN:O	40:BE:56:PRO:C	2.52	0.52
40:BE:67:PHE:HD2	40:BE:68:ALA:H	1.57	0.52
41:BF:122:LYS:HE3	41:BF:122:LYS:N	2.22	0.52
41:BF:187:VAL:HG12	48:BP:7:ARG:HA	1.90	0.52
46:BN:57:ALA:O	46:BN:58:ASP:O	2.27	0.52
47:BO:2:ILE:HD12	47:BO:6:THR:HG21	1.91	0.52
53:BU:14:HIS:CD2	53:BU:32:PHE:CB	2.89	0.52
53:BU:57:PHE:C	53:BU:59:ARG:N	2.66	0.52
53:BU:66:ASN:ND2	53:BU:70:ARG:HB2	2.24	0.52
53:BU:71:GLN:HG2	53:BU:71:GLN:O	2.09	0.52
54:BV:21:ARG:HG2	54:BV:91:TYR:CE2	2.44	0.52
54:BV:39:LEU:HD13	54:BV:39:LEU:N	2.24	0.52
56:BX:3:THR:HA	56:BX:6:ASP:OD2	2.09	0.52
57:BY:50:ARG:CB	57:BY:53:PRO:HG3	2.19	0.52
58:BZ:100:VAL:HB	58:BZ:124:ILE:HG13	1.90	0.52
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.91	0.52
1:CA:1157:A:C4	1:CA:1181:G:N2	2.77	0.52
2:CB:43:ASP:OD1	2:CB:45:GLN:HB3	2.09	0.52
3:CC:111:LEU:HD21	3:CC:144:SER:O	2.08	0.52
3:CC:141:VAL:HG11	3:CC:202:ILE:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:165:THR:O	3:CC:165:THR:HG23	2.08	0.52
6:CF:43:LEU:HD22	6:CF:43:LEU:N	2.17	0.52
7:CG:11:GLN:NE2	7:CG:12:LEU:H	2.07	0.52
13:CM:14:ARG:HB2	13:CM:17:VAL:HG23	1.91	0.52
14:CN:47:LEU:O	14:CN:50:LYS:N	2.42	0.52
24:CY:52:A:C2	24:CY:63:G:N1	2.77	0.52
25:CZ:137:LYS:HG2	62:CZ:501:GDP:N1	2.23	0.52
25:CZ:199:ILE:HG22	25:CZ:203:LEU:HD12	1.92	0.52
25:CZ:278:GLN:OE1	25:CZ:278:GLN:HA	2.09	0.52
25:CZ:325:LYS:HG3	25:CZ:331:HIS:HB3	1.91	0.52
28:D2:69:ARG:NH1	36:DA:111:A:H4'	2.24	0.52
29:D3:13:ILE:HD13	36:DA:989:G:C5	2.44	0.52
31:D5:6:VAL:H	36:DA:2056:G:N2	2.06	0.52
34:D8:21:LYS:HD3	34:D8:48:PHE:CE2	2.43	0.52
34:D8:41:ILE:HG23	34:D8:42:ARG:H	1.74	0.52
35:D9:31:LYS:C	35:D9:32:HIS:CD2	2.87	0.52
36:DA:150:C:O2'	36:DA:151:C:H5'	2.09	0.52
36:DA:425:G:H2'	36:DA:426:C:H6	1.73	0.52
36:DA:534:U:H5'	53:DU:42:ALA:HB1	1.91	0.52
36:DA:814:C:H2'	36:DA:815:C:H6	1.73	0.52
36:DA:849:A:H2'	36:DA:850:C:O4'	2.09	0.52
36:DA:920:G:H2'	36:DA:921:G:H8	1.73	0.52
36:DA:1491:G:C6	36:DA:1500:G:C2	2.97	0.52
36:DA:2392:A:H8	48:DP:60:MET:HA	1.74	0.52
36:DA:2496:C:O2'	36:DA:2497:A:H5'	2.08	0.52
38:DC:99:ILE:HG22	38:DC:99:ILE:O	2.09	0.52
40:DE:132:HIS:HD2	40:DE:135:HIS:CE1	2.27	0.52
41:DF:40:GLN:NE2	41:DF:182:ASN:HB2	2.24	0.52
43:DH:148:ILE:O	43:DH:162:ILE:HG21	2.08	0.52
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.23	0.52
51:DS:98:VAL:C	51:DS:100:ALA:N	2.60	0.52
54:DV:39:LEU:HD13	54:DV:39:LEU:N	2.23	0.52
55:DW:5:ALA:HB3	55:DW:105:VAL:HB	1.91	0.52
57:DY:17:SER:OG	57:DY:18:GLY:N	2.42	0.52
57:DY:17:SER:HB2	57:DY:71:LYS:HD2	1.91	0.52
58:DZ:86:VAL:CG1	58:DZ:87:ASP:H	2.09	0.52
1:AA:192:U:O2'	20:AT:103:GLY:HA2	2.09	0.52
1:AA:446:G:H2'	1:AA:447:G:O4'	2.09	0.52
1:AA:781:A:C3'	1:AA:782:A:H5'	2.39	0.52
1:AA:1530:G:H2'	1:AA:1531:A:O4'	2.09	0.52
2:AB:142:LEU:O	2:AB:143:GLU:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:134:ASP:C	4:AD:135:LEU:HD13	2.34	0.52
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.44	0.52
8:AH:92:ARG:HB3	8:AH:94:TYR:HE1	1.74	0.52
13:AM:57:ARG:C	13:AM:59:TYR:N	2.66	0.52
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.39	0.52
17:AQ:29:HIS:ND1	17:AQ:32:TYR:N	2.52	0.52
18:AR:52:PRO:O	18:AR:53:ARG:C	2.52	0.52
25:AZ:362:VAL:HG11	25:AZ:368:VAL:CG2	2.38	0.52
28:B2:57:ILE:HG22	28:B2:61:LEU:HG	1.91	0.52
31:B5:48:GLU:O	31:B5:49:CYS:CB	2.57	0.52
32:B6:15:GLU:HA	32:B6:49:HIS:ND1	2.24	0.52
32:B6:26:ASN:O	32:B6:27:LYS:CB	2.58	0.52
36:BA:324:A:H61	36:BA:338:G:C2'	2.23	0.52
36:BA:717:G:H2'	36:BA:718:A:C8	2.44	0.52
36:BA:1553:A:N6	36:BA:1555:G:H1'	2.23	0.52
36:BA:1657:C:C2'	36:BA:1658:C:H5'	2.39	0.52
36:BA:1772:G:N2	36:BA:1774:C:H5''	2.24	0.52
36:BA:2007:C:C5'	36:BA:2824:C:H1'	2.39	0.52
36:BA:2029:G:O6	36:BA:2033:A:OP2	2.26	0.52
36:BA:2076:U:OP1	36:BA:2076:U:H6	1.90	0.52
36:BA:2425:A:H5''	36:BA:2427:C:O4'	2.09	0.52
36:BA:2577:A:H5''	36:BA:2578:G:H5'	1.91	0.52
36:BA:2626:C:H6	36:BA:2626:C:O5'	1.92	0.52
36:BA:2673:G:H2'	36:BA:2674:G:C8	2.45	0.52
36:BA:2818:G:O2'	36:BA:2819:G:H5'	2.10	0.52
38:BC:134:ARG:O	38:BC:135:GLY:C	2.52	0.52
39:BD:70:TRP:CD1	39:BD:70:TRP:C	2.87	0.52
39:BD:240:ALA:HB1	39:BD:241:PRO:HD2	1.91	0.52
40:BE:31:CYS:HB3	40:BE:49:LEU:HD12	1.91	0.52
41:BF:111:ALA:O	41:BF:115:ALA:N	2.42	0.52
41:BF:192:LEU:HD23	41:BF:192:LEU:C	2.34	0.52
42:BG:7:LEU:O	42:BG:11:TYR:HB2	2.08	0.52
47:BO:64:ARG:CZ	52:BT:70:VAL:HG21	2.39	0.52
47:BO:75:SER:OG	52:BT:74:ARG:NH1	2.41	0.52
49:BQ:19:GLY:CA	58:BZ:79:ARG:NH2	2.72	0.52
49:BQ:19:GLY:O	49:BQ:20:ALA:HB3	2.09	0.52
50:BR:14:SER:HA	50:BR:17:ARG:CZ	2.39	0.52
50:BR:63:ARG:O	50:BR:66:VAL:HB	2.09	0.52
51:BS:13:ARG:HG2	51:BS:13:ARG:HH11	1.74	0.52
51:BS:84:GLN:HA	51:BS:105:ALA:HB3	1.91	0.52
51:BS:106:ARG:NH2	51:BS:109:GLY:N	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:76:TYR:OH	53:BU:93:LYS:HE3	2.09	0.52
54:BV:38:LEU:HD12	54:BV:57:VAL:HB	1.90	0.52
1:CA:221:C:O2'	1:CA:222:U:H5'	2.09	0.52
1:CA:383:A:OP1	1:CA:454:C:H2'	2.09	0.52
1:CA:711:G:O2'	1:CA:712:A:H5'	2.08	0.52
1:CA:1240:U:H5''	1:CA:1241:G:C8	2.43	0.52
1:CA:1272:G:C2	1:CA:1273:G:H1'	2.43	0.52
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.44	0.52
1:CA:1530:G:H2'	1:CA:1531:A:O4'	2.08	0.52
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.91	0.52
4:CD:28:SER:CB	4:CD:29:PRO:CD	2.85	0.52
5:CE:41:VAL:O	5:CE:66:MET:HA	2.09	0.52
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.25	0.52
13:CM:81:LEU:N	13:CM:81:LEU:CD2	2.73	0.52
18:CR:70:ILE:O	18:CR:71:LYS:C	2.52	0.52
19:CS:49:ILE:O	19:CS:60:VAL:O	2.28	0.52
22:CW:25:C:H2'	22:CW:26:A:H8	1.74	0.52
25:CZ:24:LYS:HE3	25:CZ:84:GLY:HA3	1.92	0.52
29:D3:15:TYR:CD2	29:D3:19:GLN:NE2	2.74	0.52
33:D7:11:LYS:O	33:D7:12:ARG:C	2.51	0.52
34:D8:37:SER:O	34:D8:41:ILE:HG22	2.09	0.52
36:DA:272(J):C:H2'	36:DA:274:G:H5''	1.92	0.52
36:DA:448:U:H1'	41:DF:84:VAL:CG1	2.39	0.52
36:DA:600:G:C6	36:DA:601:C:N4	2.77	0.52
36:DA:972:G:H3'	36:DA:973:A:H2'	1.91	0.52
36:DA:983:A:H2'	36:DA:984:A:O4'	2.08	0.52
36:DA:1245:G:H5'	41:DF:34:TRP:HZ2	1.74	0.52
36:DA:1328:G:H8	36:DA:1328:G:O5'	1.92	0.52
36:DA:1590:U:C3'	36:DA:1591:G:H5''	2.40	0.52
36:DA:1747(A):G:C2'	36:DA:1748:G:H5''	2.39	0.52
36:DA:1861:G:H1	36:DA:1881:C:H42	1.57	0.52
36:DA:2107:C:C2	36:DA:2108:C:C5	2.97	0.52
39:DD:136:ILE:N	39:DD:136:ILE:CD1	2.72	0.52
39:DD:142:VAL:HG23	39:DD:192:THR:C	2.35	0.52
44:DJ:30:UNK:O	44:DJ:31:UNK:CB	2.58	0.52
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.24	0.52
50:DR:98:LEU:O	50:DR:113:LEU:N	2.40	0.52
51:DS:98:VAL:O	51:DS:100:ALA:N	2.43	0.52
51:DS:106:ARG:HH11	51:DS:106:ARG:HB3	1.73	0.52
52:DT:101:PHE:O	52:DT:103:ARG:N	2.42	0.52
53:DU:14:HIS:CD2	53:DU:32:PHE:CB	2.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:62:HIS:O	55:DW:63:ASP:C	2.52	0.52
58:DZ:26:GLY:HA2	58:DZ:86:VAL:H	1.74	0.52
1:AA:218:C:H5'	1:AA:470:C:N4	2.24	0.52
1:AA:668:G:H5'	15:AO:49:ASP:HA	1.90	0.52
1:AA:762:C:H2'	1:AA:763:G:H8	1.73	0.52
1:AA:1082:G:H2'	1:AA:1083:U:O4'	2.09	0.52
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.43	0.52
1:AA:1433:A:N6	1:AA:1434:A:N1	2.57	0.52
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.74	0.52
2:AB:155:LEU:HD21	2:AB:159:PRO:HG3	1.92	0.52
2:AB:170:GLU:O	2:AB:173:ALA:N	2.42	0.52
7:AG:11:GLN:NE2	7:AG:12:LEU:H	2.08	0.52
7:AG:31:MET:CG	7:AG:32:ARG:N	2.69	0.52
7:AG:89:MET:O	7:AG:90:GLU:O	2.26	0.52
11:AK:94:ALA:O	11:AK:95:ILE:C	2.53	0.52
11:AK:127:LYS:C	11:AK:129:SER:H	2.17	0.52
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.91	0.52
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.35	0.52
16:AP:41:PRO:C	16:AP:43:LYS:H	2.18	0.52
17:AQ:29:HIS:CE1	17:AQ:31:LEU:N	2.76	0.52
20:AT:45:GLN:CB	20:AT:91:LEU:HD13	2.36	0.52
27:B1:40:ARG:CG	27:B1:41:ARG:N	2.72	0.52
27:B1:53:VAL:O	27:B1:55:GLY:N	2.38	0.52
28:B2:35:LEU:HD21	28:B2:50:ILE:HG13	1.89	0.52
28:B2:39:ALA:CB	28:B2:45:SER:HA	2.39	0.52
29:B3:7:LYS:N	29:B3:54:VAL:HG13	2.24	0.52
32:B6:12:GLU:CD	32:B6:54:ILE:CG2	2.83	0.52
33:B7:1:MET:N	36:BA:1619:G:O2'	2.42	0.52
36:BA:189:G:H2'	36:BA:205:G:H22	1.73	0.52
36:BA:360:G:H2'	36:BA:361:G:O4'	2.09	0.52
36:BA:1192:G:O6	48:BP:29:LYS:NZ	2.36	0.52
36:BA:1215:G:O2'	36:BA:1216:G:H5'	2.08	0.52
36:BA:1335:U:OP1	56:BX:65:ARG:NH2	2.43	0.52
36:BA:1578:U:H2'	36:BA:1578:U:O2	2.09	0.52
36:BA:1690:A:H2'	36:BA:1691:C:C5'	2.38	0.52
36:BA:1741:A:H3'	36:BA:1742:G:C8	2.45	0.52
36:BA:1785:A:P	36:BA:1982:C:H5'	2.48	0.52
36:BA:1792:G:OP2	39:BD:206:LEU:HD12	2.09	0.52
36:BA:1853:A:N6	36:BA:1889:A:C8	2.78	0.52
36:BA:2105:C:O2'	36:BA:2106:G:H5'	2.09	0.52
36:BA:2111:C:H2'	36:BA:2112:G:C5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2235:G:H2'	36:BA:2236:C:H6	1.72	0.52
36:BA:2346:A:H5'	36:BA:2383:G:O4'	2.09	0.52
36:BA:2457:U:C2'	36:BA:2458:G:H5'	2.39	0.52
43:BH:85:LYS:HE2	43:BH:86:GLU:N	2.23	0.52
52:BT:79:HIS:O	52:BT:80:SER:HB3	2.09	0.52
52:BT:134:GLU:O	52:BT:135:ALA:HB3	2.07	0.52
53:BU:92:ARG:HH22	54:BV:10:LYS:CG	2.22	0.52
1:CA:191:G:H2'	1:CA:192:U:C6	2.44	0.52
1:CA:386:C:O2'	1:CA:387:U:H5'	2.08	0.52
1:CA:401:C:H1'	1:CA:622:A:H1'	1.90	0.52
1:CA:599:C:H2'	1:CA:600:C:C6	2.43	0.52
1:CA:1440:C:C1'	1:CA:1462:G:H22	2.21	0.52
2:CB:73:THR:O	2:CB:74:LYS:C	2.50	0.52
2:CB:142:LEU:O	2:CB:143:GLU:C	2.51	0.52
2:CB:166:ASP:O	2:CB:167:PRO:C	2.50	0.52
3:CC:48:TYR:C	3:CC:50:ALA:N	2.66	0.52
3:CC:83:ARG:C	3:CC:85:ARG:N	2.62	0.52
3:CC:130:VAL:O	3:CC:131:ARG:C	2.52	0.52
5:CE:41:VAL:HG11	5:CE:113:ALA:HA	1.91	0.52
9:CI:10:ARG:HG3	9:CI:75:ASP:CB	2.38	0.52
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.09	0.52
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	2.08	0.52
12:CL:7:ILE:H	12:CL:7:ILE:HD12	1.74	0.52
12:CL:53:ARG:HD2	12:CL:53:ARG:H	1.74	0.52
12:CL:62:SER:O	12:CL:64:TYR:N	2.42	0.52
13:CM:77:ASN:O	13:CM:80:ARG:HB3	2.10	0.52
14:CN:9:LYS:HG2	14:CN:9:LYS:O	2.10	0.52
25:CZ:118:GLU:C	25:CZ:120:ILE:N	2.67	0.52
25:CZ:155:ARG:HH12	25:CZ:168:VAL:H	1.58	0.52
27:D1:16:ASN:HD21	27:D1:37:ILE:CG2	2.22	0.52
36:DA:145:G:H3'	36:DA:146:G:H5''	1.89	0.52
36:DA:360:G:O2'	36:DA:361:G:H5'	2.09	0.52
36:DA:802:A:H2'	36:DA:803:U:H6	1.72	0.52
36:DA:1137:G:H2'	36:DA:1138:G:H8	1.73	0.52
36:DA:1327:C:N4	36:DA:1647:G:N2	2.49	0.52
36:DA:1485:G:H2'	36:DA:1486:A:O4'	2.10	0.52
36:DA:1528:A:O2'	36:DA:1528(A):A:O5'	2.26	0.52
36:DA:1542:A:H8	36:DA:1542:A:H3'	1.75	0.52
36:DA:1784:A:H4'	36:DA:1785:A:O5'	2.10	0.52
36:DA:1834:U:H2'	36:DA:1834:U:O2	2.10	0.52
36:DA:2329:G:H2'	36:DA:2330:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2593:U:H2'	36:DA:2594:C:C6	2.44	0.52
36:DA:2756:U:C1'	36:DA:2757:A:H5''	2.39	0.52
36:DA:2833:G:OP1	36:DA:2833:G:H8	1.91	0.52
39:DD:23:GLU:OE1	39:DD:23:GLU:HA	2.08	0.52
39:DD:24:ILE:HG23	39:DD:25:THR:H	1.74	0.52
39:DD:28:GLU:N	39:DD:28:GLU:OE2	2.42	0.52
41:DF:6:VAL:HG12	41:DF:7:TYR:N	2.15	0.52
41:DF:9:ILE:HA	41:DF:14:PRO:O	2.10	0.52
41:DF:122:LYS:HB3	41:DF:191:ARG:HG3	1.91	0.52
41:DF:170:LEU:O	41:DF:173:VAL:HB	2.08	0.52
45:DK:100:UNK:C	45:DK:136:UNK:HA	2.39	0.52
46:DN:24:GLY:C	46:DN:26:LEU:H	2.15	0.52
52:DT:28:VAL:HG11	52:DT:46:GLU:OE1	2.09	0.52
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.39	0.52
53:DU:59:ARG:O	53:DU:60:LEU:C	2.52	0.52
54:DV:13:ARG:HG3	54:DV:13:ARG:HH11	1.74	0.52
1:AA:192:U:H1'	20:AT:103:GLY:O	2.10	0.52
1:AA:329:A:H2'	1:AA:332:G:O6	2.08	0.52
1:AA:492:G:N2	1:AA:493:G:H1'	2.23	0.52
1:AA:628:G:O2'	1:AA:629:G:H5'	2.08	0.52
1:AA:790:A:H5'	22:AV:38:A:O3'	2.10	0.52
1:AA:889:A:H4'	1:AA:890:G:OP1	2.09	0.52
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.09	0.52
1:AA:1401:G:O5'	1:AA:1401:G:C8	2.62	0.52
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.44	0.52
2:AB:61:LEU:HD21	2:AB:161:ALA:HB3	1.90	0.52
3:AC:32:LEU:HD22	3:AC:59:ARG:CZ	2.39	0.52
5:AE:41:VAL:O	5:AE:66:MET:HA	2.10	0.52
7:AG:27:ILE:O	7:AG:28:ASN:C	2.52	0.52
8:AH:41:ARG:C	8:AH:43:GLY:H	2.18	0.52
8:AH:113:SER:O	8:AH:131:GLY:HA3	2.10	0.52
9:AI:65:VAL:HG22	9:AI:66:ARG:N	2.23	0.52
12:AL:41:ARG:HH12	12:AL:57:LYS:HZ3	1.56	0.52
15:AO:18:PHE:O	15:AO:19:PRO:C	2.49	0.52
16:AP:19:ILE:HB	16:AP:37:GLY:O	2.10	0.52
19:AS:52:TYR:O	19:AS:53:ASN:CB	2.56	0.52
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.92	0.52
22:AV:56:C:H1'	42:BG:76:SER:CB	2.39	0.52
22:AW:74:C:C5	22:AW:75:C:C4	2.97	0.52
26:B0:51:VAL:HG21	26:B0:79:VAL:O	2.09	0.52
27:B1:71:TYR:O	27:B1:74:VAL:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:319:C:H2'	36:BA:320:A:C8	2.44	0.52
36:BA:415:A:N1	36:BA:2409:G:C6	2.77	0.52
36:BA:500:G:N1	36:BA:503:A:OP2	2.42	0.52
36:BA:600:G:C6	36:BA:601:C:N4	2.77	0.52
36:BA:654(A):G:H5'	36:BA:654(B):C:OP2	2.08	0.52
36:BA:716:A:C3'	36:BA:717:G:H5''	2.40	0.52
36:BA:1027:A:O2'	36:BA:1028:A:H5'	2.10	0.52
36:BA:1376:C:C2'	36:BA:1377:G:H5'	2.40	0.52
36:BA:1416:G:H1'	36:BA:1417:C:C6	2.45	0.52
36:BA:1665:A:C3'	36:BA:1666:G:C5'	2.85	0.52
36:BA:1668:A:C2	36:BA:1670:C:N3	2.77	0.52
36:BA:2111:C:H2'	36:BA:2112:G:H5''	1.90	0.52
36:BA:2331:G:H2'	36:BA:2332:U:H6	1.75	0.52
36:BA:2628:C:H5'	36:BA:2781:A:C6	2.44	0.52
37:BB:105:A:H4'	58:BZ:89:PHE:CD2	2.44	0.52
38:BC:51:PRO:HB2	38:BC:167:LYS:O	2.09	0.52
39:BD:30:GLU:HB3	39:BD:35:LYS:HG3	1.90	0.52
42:BG:83:ARG:O	42:BG:85:GLY:N	2.43	0.52
46:BN:75:TYR:HB2	46:BN:82:LEU:HD13	1.91	0.52
48:BP:30:THR:CG2	48:BP:31:ALA:N	2.72	0.52
48:BP:109:GLY:O	48:BP:110:TYR:C	2.53	0.52
49:BQ:44:ALA:HA	49:BQ:47:ILE:CD1	2.35	0.52
50:BR:96:ARG:NH1	50:BR:96:ARG:HB2	2.24	0.52
56:BX:12:VAL:CG1	56:BX:27:THR:H	2.22	0.52
58:BZ:108:PRO:O	58:BZ:111:VAL:HG23	2.09	0.52
1:CA:390:C:H2'	1:CA:391:G:H8	1.74	0.52
1:CA:536:C:O5'	1:CA:536:C:H6	1.92	0.52
1:CA:1415:G:H2'	1:CA:1416:G:O4'	2.08	0.52
3:CC:32:LEU:HD22	3:CC:59:ARG:CZ	2.40	0.52
8:CH:97:VAL:HA	8:CH:100:ILE:HG13	1.92	0.52
13:CM:70:LEU:C	13:CM:70:LEU:CD2	2.82	0.52
14:CN:21:TYR:N	14:CN:21:TYR:CD1	2.78	0.52
14:CN:47:LEU:C	14:CN:49:HIS:N	2.67	0.52
16:CP:44:THR:O	16:CP:45:THR:CB	2.57	0.52
18:CR:50:ILE:HD11	18:CR:74:ARG:CZ	2.39	0.52
20:CT:93:GLU:C	20:CT:95:ALA:H	2.16	0.52
20:CT:94:ALA:O	20:CT:95:ALA:CB	2.57	0.52
22:CV:54:U:H2'	22:CV:55:U:H5'	1.92	0.52
22:CW:38:A:C3'	22:CW:39:U:H5''	2.37	0.52
25:CZ:223:MET:HB2	25:CZ:242:ILE:HA	1.91	0.52
26:D0:32:ARG:O	26:D0:35:ASN:OD1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:63:ALA:HB3	27:D1:66:HIS:HB2	1.91	0.52
27:D1:92:LYS:HD2	27:D1:92:LYS:O	2.10	0.52
33:D7:1:MET:SD	36:DA:752:A:H5''	2.50	0.52
34:D8:31:HIS:O	34:D8:32:LEU:C	2.52	0.52
36:DA:195:A:OP1	48:DP:46:LYS:NZ	2.38	0.52
36:DA:275:G:C2	36:DA:276:A:C2	2.97	0.52
36:DA:601:C:O2	36:DA:605:C:C5'	2.58	0.52
36:DA:1052:C:H2'	36:DA:1053:C:C5	2.44	0.52
36:DA:1255:U:C5	41:DF:73:ALA:HA	2.43	0.52
36:DA:1301:A:HO2'	36:DA:1302:A:H2'	1.72	0.52
36:DA:1567:A:OP2	39:DD:84:TYR:OH	2.26	0.52
36:DA:2331:G:H2'	36:DA:2332:U:H6	1.74	0.52
37:DB:42:C:O2'	37:DB:43:C:H6	1.89	0.52
40:DE:144:ARG:C	40:DE:146:THR:H	2.17	0.52
41:DF:33:LEU:CD1	41:DF:113:ALA:HB2	2.39	0.52
42:DG:72:ARG:O	42:DG:73:ALA:O	2.28	0.52
46:DN:3:THR:CG2	46:DN:4:TYR:N	2.72	0.52
47:DO:117:LEU:O	47:DO:118:ALA:C	2.51	0.52
51:DS:67:ARG:HB2	51:DS:71:ARG:HH11	1.74	0.52
52:DT:28:VAL:HG13	52:DT:45:PHE:C	2.34	0.52
54:DV:21:ARG:HG2	54:DV:91:TYR:CE2	2.44	0.52
54:DV:23:GLU:O	54:DV:24:LYS:O	2.26	0.52
54:DV:78:LYS:O	54:DV:79:VAL:HG23	2.09	0.52
58:DZ:50:GLN:C	58:DZ:52:SER:N	2.64	0.52
1:AA:261:U:O2	1:AA:263:A:C8	2.63	0.52
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.44	0.52
1:AA:1423:G:C6	1:AA:1424:C:N4	2.78	0.52
4:AD:119:GLN:NE2	4:AD:123:HIS:NE2	2.54	0.52
5:AE:102:ALA:CB	5:AE:106:PRO:HG2	2.32	0.52
10:AJ:8:LEU:CG	10:AJ:96:ILE:HG22	2.38	0.52
10:AJ:12:ASP:C	10:AJ:12:ASP:OD2	2.52	0.52
10:AJ:24:VAL:C	10:AJ:26:ALA:N	2.65	0.52
13:AM:79:LYS:HA	13:AM:82:MET:HB3	1.91	0.52
13:AM:112:GLY:O	13:AM:113:PRO:C	2.51	0.52
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.75	0.52
17:AQ:21:VAL:O	17:AQ:41:LYS:HA	2.10	0.52
20:AT:48:LYS:HB3	20:AT:51:GLU:HG3	1.91	0.52
21:AU:9:ARG:O	21:AU:10:ARG:C	2.53	0.52
25:AZ:9:LYS:HB3	25:AZ:75:ARG:HA	1.91	0.52
25:AZ:195:TRP:H	25:AZ:195:TRP:CD1	2.28	0.52
25:AZ:273:HIS:O	25:AZ:275:LYS:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:4:LEU:N	29:B3:37:LEU:O	2.30	0.52
33:B7:19:ARG:HB3	36:BA:125:G:H5'	1.92	0.52
33:B7:22:MET:O	33:B7:28:ARG:NH1	2.42	0.52
36:BA:64:A:H2'	36:BA:65:C:O4'	2.09	0.52
36:BA:85:G:O5'	57:BY:30:VAL:HB	2.10	0.52
36:BA:664:C:H4'	36:BA:941:A:OP1	2.10	0.52
36:BA:709:U:H3	36:BA:722:A:H61	1.57	0.52
36:BA:966:G:H1'	36:BA:2267:A:H62	1.74	0.52
36:BA:978:G:H1	36:BA:985:C:H42	1.56	0.52
36:BA:996:A:H4'	53:BU:92:ARG:CG	2.39	0.52
36:BA:1511:C:H2'	36:BA:1512:U:C6	2.44	0.52
36:BA:1826:G:H4'	39:BD:242:ARG:NH2	2.24	0.52
36:BA:2011:U:OP2	55:BW:16:LYS:HE3	2.09	0.52
38:BC:23:ASP:CB	38:BC:27:ARG:NH1	2.65	0.52
39:BD:229:VAL:HG23	39:BD:230:ASP:H	1.74	0.52
39:BD:233:HIS:O	39:BD:234:GLY:O	2.27	0.52
41:BF:17:ARG:HG3	41:BF:17:ARG:NH1	2.24	0.52
41:BF:20:LEU:HD12	41:BF:199:TRP:CH2	2.40	0.52
41:BF:28:ILE:HD13	41:BF:28:ILE:N	2.23	0.52
41:BF:203:GLN:C	41:BF:205:ARG:N	2.66	0.52
42:BG:16:ARG:CD	42:BG:31:VAL:HG21	2.39	0.52
45:BK:90:UNK:HA	58:BZ:112:ARG:NH2	2.24	0.52
49:BQ:27:VAL:O	49:BQ:28:ALA:HB3	2.09	0.52
50:BR:28:LEU:HB2	50:BR:34:ILE:HG13	1.91	0.52
50:BR:41:ALA:O	50:BR:42:LYS:C	2.53	0.52
57:BY:8:LYS:H	57:BY:8:LYS:CD	1.97	0.52
58:BZ:28:MET:HG3	58:BZ:37:VAL:HG11	1.91	0.52
58:BZ:51:ALA:HB3	58:BZ:57:ILE:HD11	1.90	0.52
1:CA:172:A:C8	1:CA:174:C:C4	2.97	0.52
1:CA:267:C:H2'	1:CA:268:C:C6	2.37	0.52
1:CA:708:C:O2'	1:CA:709:G:H5'	2.09	0.52
1:CA:777:A:H2'	1:CA:778:G:H8	1.75	0.52
1:CA:927:G:H5'	1:CA:927:G:C8	2.43	0.52
1:CA:1018:C:H2'	1:CA:1019:C:C6	2.44	0.52
1:CA:1327:C:OP2	21:CU:12:LYS:NZ	2.39	0.52
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.38	0.52
4:CD:180:GLY:O	4:CD:181:MET:C	2.53	0.52
5:CE:12:LEU:C	5:CE:12:LEU:HD13	2.34	0.52
9:CI:22:GLY:O	9:CI:58:HIS:C	2.52	0.52
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.09	0.52
17:CQ:57:VAL:HG12	17:CQ:76:LEU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:25:THR:HG22	18:CR:25:THR:O	2.10	0.52
18:CR:73:ALA:HB1	18:CR:79:LEU:HD12	1.92	0.52
25:CZ:19:HIS:HA	25:CZ:115:GLN:CB	2.40	0.52
25:CZ:31:LEU:HB3	25:CZ:70:TYR:CE2	2.45	0.52
25:CZ:226:GLU:CG	25:CZ:240:GLY:HA2	2.38	0.52
26:D0:5:LYS:NZ	26:D0:5:LYS:HB3	2.25	0.52
27:D1:27:GLU:O	27:D1:28:GLY:C	2.51	0.52
30:D4:18:CYS:SG	30:D4:19:GLY:N	2.83	0.52
31:D5:16:ARG:HD3	36:DA:1263:U:H5''	1.90	0.52
32:D6:42:TRP:CE3	32:D6:42:TRP:HA	2.45	0.52
36:DA:306:U:C4	36:DA:307:G:C6	2.97	0.52
36:DA:864:G:N2	36:DA:913:U:C2	2.78	0.52
36:DA:875:G:H2'	36:DA:876:C:O4'	2.10	0.52
36:DA:1130:U:O2'	36:DA:1131:G:H2'	2.09	0.52
36:DA:1350:C:H2'	36:DA:1351:C:C6	2.39	0.52
36:DA:1370:C:H3'	36:DA:1371:G:C8	2.35	0.52
36:DA:1506:C:H2'	36:DA:1506:C:O2	2.09	0.52
36:DA:1539:G:H2'	36:DA:1540:U:O4'	2.10	0.52
36:DA:1674:G:H1'	36:DA:1676:A:H62	1.75	0.52
36:DA:1747(A):G:H3'	36:DA:1748:G:H5''	1.91	0.52
36:DA:2316:C:H2'	36:DA:2317:C:C6	2.44	0.52
36:DA:2453:A:O2'	36:DA:2454:G:H5'	2.09	0.52
36:DA:2469:A:H1'	36:DA:2482:G:C6	2.45	0.52
36:DA:2623:G:O5'	36:DA:2826:A:H1'	2.09	0.52
40:DE:103:ASP:OD1	40:DE:201:THR:HA	2.09	0.52
41:DF:192:LEU:HD21	41:DF:194:MET:HE2	1.91	0.52
42:DG:85:GLY:CA	42:DG:87:PRO:HD3	2.39	0.52
42:DG:129:GLY:O	42:DG:130:ASN:CB	2.58	0.52
42:DG:167:GLU:CD	42:DG:167:GLU:H	2.17	0.52
46:DN:62:VAL:HG23	46:DN:66:LYS:HD2	1.91	0.52
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.58	0.52
47:DO:7:TYR:HA	47:DO:19:ILE:O	2.10	0.52
47:DO:17:ARG:O	47:DO:18:LYS:CB	2.57	0.52
47:DO:71:ARG:NH2	47:DO:77:ILE:HG21	2.24	0.52
49:DQ:34:LEU:CD1	49:DQ:129:THR:HB	2.35	0.52
50:DR:96:ARG:NH1	50:DR:96:ARG:HB2	2.23	0.52
52:DT:92:GLY:C	52:DT:94:ALA:N	2.63	0.52
1:AA:505:G:H2'	1:AA:506:G:H8	1.73	0.52
1:AA:538:G:H5''	12:AL:114:LYS:HB2	1.92	0.52
1:AA:665:A:N3	1:AA:732:C:H2'	2.24	0.52
1:AA:668:G:O2'	15:AO:46:HIS:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1495:U:H2'	1:AA:1496:C:H6	1.74	0.52
2:AB:92:TYR:CD1	2:AB:92:TYR:C	2.87	0.52
3:AC:35:GLU:O	3:AC:36:ASP:C	2.51	0.52
3:AC:113:ALA:O	3:AC:115:LEU:N	2.43	0.52
5:AE:136:MET:O	5:AE:139:LEU:N	2.42	0.52
6:AF:10:LEU:HD13	6:AF:59:TYR:CD2	2.45	0.52
6:AF:43:LEU:HD22	6:AF:43:LEU:N	2.17	0.52
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	2.08	0.52
12:AL:104:VAL:HG12	12:AL:105:TYR:CD2	2.45	0.52
13:AM:19:LEU:H	13:AM:19:LEU:HD22	1.75	0.52
14:AN:57:ARG:CB	14:AN:57:ARG:NH1	2.61	0.52
20:AT:89:ARG:C	20:AT:91:LEU:H	2.16	0.52
22:AW:14:A:H2'	22:AW:15:G:O4'	2.10	0.52
24:AY:48:C:H2'	24:AY:59:A:C1'	2.31	0.52
32:B6:48:VAL:O	32:B6:49:HIS:CG	2.62	0.52
36:BA:141:A:H8	36:BA:1408:C:O2'	1.92	0.52
36:BA:324:A:H2'	36:BA:325:G:O4'	2.09	0.52
36:BA:483:A:C4'	57:BY:49:VAL:HG22	2.37	0.52
36:BA:667:U:H3'	36:BA:668:G:H5''	1.91	0.52
36:BA:992:C:C2	36:BA:1163:G:N2	2.78	0.52
36:BA:1467:C:H42	36:BA:1525:G:H1	1.58	0.52
36:BA:2086:U:OP2	39:BD:263:ARG:NH2	2.37	0.52
36:BA:2199:A:C5'	36:BA:2200:C:OP2	2.58	0.52
36:BA:2228:G:H2'	36:BA:2229:C:C6	2.45	0.52
36:BA:2243:U:H2'	36:BA:2244:U:H6	1.70	0.52
36:BA:2373:G:H2'	36:BA:2374:C:C6	2.45	0.52
36:BA:2532:G:H2'	36:BA:2533:A:C8	2.45	0.52
36:BA:2533:A:H2'	36:BA:2534:A:H5'	1.91	0.52
36:BA:2758:A:O2'	36:BA:2759:G:H8	1.92	0.52
37:BB:5:C:H2'	37:BB:6:C:C6	2.45	0.52
38:BC:178:ALA:O	38:BC:180:PHE:N	2.42	0.52
39:BD:4:LYS:HB2	39:BD:18:VAL:HG12	1.92	0.52
46:BN:96:GLU:CD	46:BN:96:GLU:H	2.17	0.52
50:BR:20:LEU:O	50:BR:24:GLN:HG3	2.10	0.52
58:BZ:15:PRO:HA	58:BZ:18:LEU:HD22	1.91	0.52
58:BZ:102:LEU:HD11	58:BZ:124:ILE:CG2	2.39	0.52
58:BZ:166:SER:OG	58:BZ:168:GLU:N	2.42	0.52
1:CA:277:C:O2'	1:CA:278:G:H5'	2.10	0.52
1:CA:551:U:O2'	1:CA:552:U:H5'	2.09	0.52
1:CA:756:C:O2'	1:CA:878:G:N2	2.43	0.52
1:CA:1482:G:HO2'	1:CA:1483:A:H8	1.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:61:LEU:HD21	2:CB:161:ALA:HB3	1.92	0.52
2:CB:130:ARG:HE	2:CB:131:PRO:HD2	1.74	0.52
2:CB:174:VAL:O	2:CB:177:ALA:HB3	2.10	0.52
3:CC:13:GLY:O	3:CC:14:ILE:HG22	2.10	0.52
4:CD:122:ARG:HH11	4:CD:122:ARG:HA	1.73	0.52
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.40	0.52
13:CM:107:ALA:C	13:CM:109:THR:N	2.67	0.52
20:CT:81:LYS:O	20:CT:83:ARG:N	2.43	0.52
22:CV:40:C:H2'	22:CV:41:C:C6	2.43	0.52
25:CZ:97:ALA:HA	25:CZ:126:VAL:CG1	2.39	0.52
25:CZ:171:ILE:CG2	25:CZ:172:ARG:N	2.73	0.52
25:CZ:314:THR:HG22	25:CZ:377:PRO:HA	1.91	0.52
36:DA:201:C:C2'	36:DA:202:U:H5'	2.40	0.52
36:DA:208:C:H2'	36:DA:209:C:H6	1.74	0.52
36:DA:499:U:H1'	57:DY:47:LYS:NZ	2.25	0.52
36:DA:658:C:H2'	36:DA:659:C:C6	2.44	0.52
36:DA:752:A:O2'	36:DA:753:C:OP2	2.26	0.52
36:DA:907:U:H4'	49:DQ:101:ARG:NH1	2.22	0.52
36:DA:922:U:H2'	36:DA:923:C:C6	2.45	0.52
36:DA:1053:C:O2'	36:DA:1054:A:H5'	2.10	0.52
36:DA:1184:G:H2'	36:DA:1185:C:H5'	1.90	0.52
36:DA:1487:G:N2	36:DA:1488:G:H1'	2.25	0.52
36:DA:1576:U:H2'	36:DA:1577:C:H6	1.72	0.52
36:DA:1763:G:H2'	36:DA:1764:G:C5'	2.38	0.52
36:DA:1798:U:C2	36:DA:1822:G:C2	2.98	0.52
36:DA:1856:G:C2'	36:DA:1857:G:H5'	2.40	0.52
36:DA:1914:C:H2'	36:DA:1915:U:O4'	2.09	0.52
36:DA:2094:G:N2	36:DA:2196:C:H1'	2.24	0.52
36:DA:2224:G:H4'	36:DA:2226:C:C2	2.44	0.52
36:DA:2535:G:C2	36:DA:2536:G:C8	2.98	0.52
36:DA:2591:C:OP2	39:DD:239:ARG:HB3	2.09	0.52
38:DC:6:ARG:HD2	38:DC:34:THR:HG22	1.90	0.52
38:DC:23:ASP:CB	38:DC:27:ARG:NH1	2.67	0.52
38:DC:86:ALA:HB3	38:DC:94:VAL:CG1	2.39	0.52
38:DC:166:ASP:OD2	38:DC:168:THR:HG23	2.09	0.52
39:DD:138:VAL:O	39:DD:138:VAL:HG13	2.08	0.52
39:DD:158:ALA:O	39:DD:159:ALA:C	2.52	0.52
39:DD:183:ARG:HG3	39:DD:269:PHE:O	2.10	0.52
41:DF:157:VAL:HG22	41:DF:194:MET:HG2	1.91	0.52
41:DF:157:VAL:HG22	41:DF:194:MET:HA	1.92	0.52
42:DG:112:PRO:HG2	42:DG:113:ARG:N	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:65:LYS:HG3	52:DT:66:VAL:N	2.25	0.52
52:DT:89:VAL:HB	52:DT:91:ARG:NE	2.25	0.52
53:DU:92:ARG:HH22	54:DV:10:LYS:CG	2.22	0.52
55:DW:76:VAL:HB	55:DW:103:ILE:HG23	1.91	0.52
56:DX:31:HIS:O	56:DX:32:PRO:C	2.53	0.52
1:AA:404:U:H2'	1:AA:405:U:C6	2.44	0.52
1:AA:586:C:H1'	1:AA:878:G:O2'	2.10	0.52
1:AA:620:C:H2'	1:AA:621:A:C8	2.45	0.52
1:AA:777:A:H2'	1:AA:778:G:C8	2.45	0.52
1:AA:781:A:C5	1:AA:802:A:C2	2.98	0.52
1:AA:1004:A:N6	1:AA:1035:A:C5	2.78	0.52
1:AA:1054:C:C6	1:AA:1196:U:C5	2.98	0.52
1:AA:1422:G:N3	1:AA:1423:G:C8	2.78	0.52
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.39	0.52
1:AA:1456:G:N3	1:AA:1456:G:H3'	2.24	0.52
2:AB:8:LYS:HZ2	2:AB:217:ARG:CZ	2.21	0.52
2:AB:25:ASN:O	2:AB:27:LYS:N	2.43	0.52
2:AB:111:ARG:HE	2:AB:145:LEU:HD21	1.75	0.52
3:AC:111:LEU:HD21	3:AC:144:SER:O	2.10	0.52
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.24	0.52
7:AG:135:VAL:O	7:AG:136:LYS:C	2.52	0.52
9:AI:79:LEU:HD21	9:AI:102:LEU:C	2.34	0.52
12:AL:86:ARG:CG	12:AL:87:GLY:H	2.15	0.52
13:AM:93:ARG:HG3	36:BA:888:C:OP1	2.10	0.52
14:AN:7:ILE:HG13	14:AN:8:GLU:H	1.73	0.52
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.92	0.52
25:AZ:27:LEU:HD12	25:AZ:27:LEU:O	2.10	0.52
25:AZ:321:TYR:HD1	25:AZ:367:ASN:ND2	2.08	0.52
27:B1:17:SER:O	27:B1:18:ILE:HG13	2.09	0.52
36:BA:19:C:O2'	36:BA:20:C:H5'	2.09	0.52
36:BA:303:U:H2'	36:BA:304:G:C8	2.44	0.52
36:BA:448:U:H1'	41:BF:84:VAL:HG11	1.92	0.52
36:BA:499:U:H1'	57:BY:47:LYS:NZ	2.25	0.52
36:BA:565:C:H2'	36:BA:566:U:H6	1.74	0.52
36:BA:588:U:H1'	41:BF:90:PHE:CD2	2.45	0.52
36:BA:614(A):U:H4'	36:BA:614(B):G:H5''	1.92	0.52
36:BA:1131:G:C8	36:BA:2025:C:H4'	2.45	0.52
36:BA:1170:G:OP2	36:BA:1170:G:H8	1.93	0.52
36:BA:1202:C:H2'	36:BA:1203:G:C5'	2.34	0.52
36:BA:1278:A:O2'	36:BA:1279:G:H5'	2.10	0.52
36:BA:1328:G:H4'	36:BA:1329:U:H5	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1451:C:OP2	36:BA:1451:C:H6	1.91	0.52
36:BA:1682:G:H2'	36:BA:1683:C:C6	2.45	0.52
36:BA:1720:U:H2'	36:BA:1721:G:H5''	1.92	0.52
36:BA:2221:G:C6	36:BA:2222:G:C6	2.97	0.52
36:BA:2491:U:H5'	36:BA:2570:G:H5''	1.91	0.52
36:BA:2654:A:O2'	36:BA:2655:G:H4'	2.10	0.52
40:BE:8:LYS:HB2	40:BE:196:VAL:HG11	1.92	0.52
40:BE:154:LYS:O	40:BE:155:LYS:O	2.27	0.52
42:BG:13:GLU:HG3	42:BG:14:GLU:HG3	1.92	0.52
43:BH:114:VAL:O	43:BH:114:VAL:HG23	2.08	0.52
43:BH:127:GLU:HB2	43:BH:130:ARG:HB2	1.91	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.09	0.52
49:BQ:48:GLU:HG3	49:BQ:51:ARG:HG2	1.92	0.52
51:BS:79:ALA:O	51:BS:80:LEU:HD23	2.10	0.52
55:BW:5:ALA:C	55:BW:6:ILE:HG13	2.35	0.52
55:BW:39:THR:O	55:BW:44:ALA:HB2	2.10	0.52
1:CA:80:G:H3'	1:CA:81:U:H5'	1.91	0.52
1:CA:157:G:O2'	1:CA:158:G:H5'	2.10	0.52
1:CA:347:G:N2	1:CA:348:G:C4	2.78	0.52
1:CA:734:G:C2	1:CA:735:C:C2	2.98	0.52
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.10	0.52
1:CA:1363(A):A:H1'	1:CA:1365:G:N7	2.25	0.52
5:CE:116:THR:O	5:CE:116:THR:HG22	2.08	0.52
6:CF:15:ASP:C	6:CF:17:SER:H	2.17	0.52
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.45	0.52
10:CJ:67:THR:CG2	10:CJ:67:THR:O	2.57	0.52
12:CL:86:ARG:HG2	12:CL:87:GLY:N	2.22	0.52
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.75	0.52
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.10	0.52
26:D0:30:VAL:HA	26:D0:65:GLY:O	2.09	0.52
32:D6:10:LEU:H	32:D6:10:LEU:CD2	2.22	0.52
34:D8:59:LYS:CE	48:DP:50:ARG:HB3	2.40	0.52
36:DA:61:G:H1	36:DA:94:C:N4	2.07	0.52
36:DA:72:U:O4	36:DA:112:U:H4'	2.09	0.52
36:DA:1275:A:C4	50:DR:16:HIS:ND1	2.77	0.52
36:DA:2189:U:C2'	36:DA:2190:G:H4'	2.39	0.52
36:DA:2317:C:H2'	36:DA:2318:G:H5'	1.92	0.52
36:DA:2389:G:C5'	36:DA:2390:U:H5'	2.39	0.52
36:DA:2776:A:H4'	36:DA:2777:G:H5''	1.91	0.52
36:DA:2784:C:O2'	40:DE:37:ARG:NH1	2.43	0.52
37:DB:19:G:H3'	37:DB:20:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:55:U:H2'	37:DB:56:G:H8	1.65	0.52
39:DD:77:ALA:HB2	39:DD:97:TYR:HA	1.91	0.52
39:DD:229:VAL:HG23	39:DD:230:ASP:H	1.74	0.52
43:DH:86:GLU:HA	43:DH:132:ARG:CB	2.40	0.52
46:DN:33:LEU:O	46:DN:52:VAL:HG21	2.10	0.52
48:DP:114:ILE:HG23	48:DP:130:PHE:HA	1.92	0.52
50:DR:45:ARG:CG	50:DR:46:GLY:H	2.08	0.52
51:DS:42:ASP:O	51:DS:43:GLU:HB3	2.09	0.52
54:DV:58:VAL:CG1	54:DV:97:LYS:HB2	2.39	0.52
55:DW:61:ASN:O	55:DW:62:HIS:ND1	2.43	0.52
1:AA:22:G:H2'	1:AA:23:C:O4'	2.09	0.52
1:AA:357:G:O2'	1:AA:358:U:H5'	2.10	0.52
1:AA:419:C:H2'	1:AA:420:U:H5'	1.92	0.52
1:AA:445:G:C6	1:AA:490:G:N1	2.78	0.52
1:AA:511:C:H42	1:AA:540:G:H1	1.57	0.52
1:AA:517:G:H5'	1:AA:519:C:C2	2.43	0.52
1:AA:582:U:O2'	1:AA:583:A:H5'	2.09	0.52
1:AA:1240:U:H5''	1:AA:1241:G:C8	2.45	0.52
2:AB:74:LYS:NZ	2:AB:76:GLN:HB2	2.25	0.52
2:AB:84:GLU:CB	2:AB:219:VAL:HG21	2.23	0.52
5:AE:48:ALA:C	5:AE:50:GLU:N	2.68	0.52
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.91	0.52
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.63	0.52
11:AK:63:LEU:O	11:AK:66:LEU:HB2	2.09	0.52
13:AM:107:ALA:C	13:AM:109:THR:N	2.67	0.52
24:AY:69:C:H2'	24:AY:70:A:H8	1.75	0.52
25:AZ:226:GLU:CD	25:AZ:240:GLY:HA2	2.35	0.52
25:AZ:347:THR:CG2	25:AZ:348:ASP:H	2.21	0.52
26:B0:4:LYS:HG3	49:BQ:82:ARG:HD2	1.91	0.52
26:B0:77:ARG:C	26:B0:78:TYR:CD1	2.88	0.52
31:B5:2:ALA:CA	36:BA:2015:A:H1'	2.40	0.52
32:B6:30:THR:O	32:B6:31:PRO:C	2.53	0.52
36:BA:177:G:H3'	36:BA:178:G:H8	1.75	0.52
36:BA:181:A:C2	36:BA:182:A:C4	2.98	0.52
36:BA:307:G:H22	36:BA:310:A:P	2.33	0.52
36:BA:449:A:H4'	53:BU:3:ARG:HH21	1.73	0.52
36:BA:471:A:H2'	36:BA:472:A:H5'	1.91	0.52
36:BA:497:A:H2'	36:BA:498:G:H8	1.75	0.52
36:BA:972:G:H3'	36:BA:973:A:H2'	1.90	0.52
36:BA:1273:U:H5''	36:BA:1646:C:H41	1.75	0.52
36:BA:1773:A:N6	36:BA:1829:A:H1'	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1939:U:O2'	36:BA:1940:U:H5'	2.09	0.52
36:BA:1998:G:H4'	36:BA:2724:C:H4'	1.91	0.52
36:BA:2638:G:P	40:BE:82:ARG:HH21	2.32	0.52
37:BB:8:U:H2'	37:BB:9:G:H8	1.75	0.52
39:BD:45:ASN:CG	39:BD:46:GLN:N	2.67	0.52
39:BD:261:LYS:HZ1	39:BD:263:ARG:HB2	1.68	0.52
41:BF:63:LYS:O	41:BF:64:ILE:C	2.53	0.52
42:BG:96:ARG:HA	42:BG:100:TRP:CD1	2.44	0.52
43:BH:20:ALA:HB1	43:BH:21:PRO:HD3	1.92	0.52
43:BH:118:PRO:CG	43:BH:121:ILE:HD12	2.38	0.52
43:BH:125:VAL:O	43:BH:125:VAL:HG12	2.09	0.52
47:BO:119:PRO:HB2	52:BT:68:TYR:CE2	2.44	0.52
49:BQ:109:VAL:HG12	49:BQ:110:THR:H	1.72	0.52
50:BR:2:ARG:HH11	50:BR:2:ARG:N	2.07	0.52
55:BW:35:ILE:HG22	55:BW:36:LEU:N	2.23	0.52
58:BZ:69:THR:HB	58:BZ:88:PHE:HB3	1.92	0.52
1:CA:37:U:O2'	1:CA:500:G:H4'	2.10	0.52
1:CA:404:U:H2'	1:CA:405:U:C6	2.45	0.52
1:CA:505:G:H2'	1:CA:506:G:H8	1.74	0.52
1:CA:525:C:C4	1:CA:526:C:N4	2.78	0.52
1:CA:540:G:H2'	1:CA:541:G:C8	2.44	0.52
1:CA:678:U:H2'	1:CA:679:C:C6	2.45	0.52
1:CA:928:G:O2'	1:CA:929:G:H5'	2.08	0.52
1:CA:1092:A:O2'	1:CA:1093:A:H5'	2.10	0.52
1:CA:1316:G:H4'	14:CN:18:VAL:CG1	2.40	0.52
1:CA:1463:C:H5'	52:DT:115:ARG:HH21	1.74	0.52
2:CB:107:THR:HA	2:CB:110:GLN:NE2	2.25	0.52
2:CB:121:LEU:HD23	2:CB:121:LEU:C	2.35	0.52
4:CD:61:LYS:HG2	4:CD:62:GLN:N	2.25	0.52
4:CD:102:ASP:O	4:CD:105:VAL:HB	2.08	0.52
7:CG:89:MET:O	7:CG:90:GLU:O	2.28	0.52
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	2.10	0.52
10:CJ:92:THR:CG2	10:CJ:93:GLY:N	2.73	0.52
11:CK:89:ALA:C	11:CK:91:ARG:N	2.66	0.52
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.35	0.52
25:CZ:92:MET:SD	25:CZ:119:HIS:CD2	3.03	0.52
25:CZ:241:ARG:CA	25:CZ:285:ASN:ND2	2.72	0.52
25:CZ:244:ARG:HH11	25:CZ:244:ARG:CB	2.16	0.52
25:CZ:273:HIS:O	25:CZ:275:LYS:N	2.42	0.52
25:CZ:321:TYR:HD1	25:CZ:367:ASN:ND2	2.08	0.52
26:D0:39:ARG:NH1	26:D0:56:ASP:OD2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:3:LYS:HE2	27:D1:4:VAL:CG1	2.40	0.52
28:D2:43:GLN:O	28:D2:44:LEU:CB	2.57	0.52
33:D7:25:PRO:N	33:D7:28:ARG:NH2	2.56	0.52
34:D8:7:HIS:CE1	34:D8:9:GLY:HA3	2.44	0.52
35:D9:8:LYS:O	35:D9:10:ILE:HD12	2.10	0.52
36:DA:67:U:O2'	36:DA:68:G:H5'	2.10	0.52
36:DA:145:G:H2'	36:DA:146:G:C5'	2.38	0.52
36:DA:324:A:H61	36:DA:338:G:C2'	2.23	0.52
36:DA:398:G:H5''	36:DA:2090:G:C4'	2.40	0.52
36:DA:471:A:H2'	36:DA:472:A:H5'	1.91	0.52
36:DA:587:C:C5	48:DP:33:ARG:HG2	2.45	0.52
36:DA:1151:G:H2'	36:DA:1152:C:O4'	2.10	0.52
36:DA:1246:A:OP2	48:DP:18:ARG:HG3	2.10	0.52
36:DA:1348:G:O2'	36:DA:1349:A:H5''	2.10	0.52
36:DA:1511:C:H2'	36:DA:1512:U:C6	2.45	0.52
36:DA:1686:C:H5'	36:DA:1687:G:OP2	2.09	0.52
36:DA:2071:A:H2	36:DA:2441:C:N3	2.08	0.52
36:DA:2334:G:H21	51:DS:18:ILE:CG2	2.23	0.52
38:DC:6:ARG:O	38:DC:10:LEU:HD23	2.09	0.52
42:DG:46:ALA:HB2	42:DG:88:ILE:HG13	1.88	0.52
42:DG:117:PHE:O	42:DG:118:ARG:HG3	2.09	0.52
43:DH:137:ASP:HB2	43:DH:140:LYS:HE3	1.92	0.52
43:DH:163:TYR:N	43:DH:163:TYR:CD1	2.78	0.52
46:DN:24:GLY:O	46:DN:28:THR:HG22	2.10	0.52
49:DQ:22:LYS:HG3	49:DQ:22:LYS:O	2.09	0.52
51:DS:98:VAL:CG1	51:DS:100:ALA:HB2	2.40	0.52
54:DV:21:ARG:HB3	54:DV:91:TYR:CG	2.45	0.52
57:DY:41:GLY:O	57:DY:42:VAL:O	2.28	0.52
58:DZ:19:ARG:HH11	58:DZ:84:GLU:C	2.18	0.52
1:AA:1245:A:H61	1:AA:1292:U:H3	1.58	0.52
1:AA:1359:C:OP2	14:AN:22:THR:CG2	2.57	0.52
2:AB:17:PHE:CD2	2:AB:17:PHE:C	2.88	0.52
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.45	0.52
2:AB:44:LEU:H	2:AB:44:LEU:CD1	2.09	0.52
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.91	0.52
3:AC:134:ILE:CG2	3:AC:168:ALA:HB3	2.40	0.52
3:AC:206:GLU:O	3:AC:207:VAL:C	2.52	0.52
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.25	0.52
6:AF:1:MET:N	6:AF:68:PRO:HA	2.25	0.52
7:AG:34:GLY:C	7:AG:36:LYS:H	2.17	0.52
10:AJ:40:LEU:HG	10:AJ:69:ASN:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:93:ARG:CG	36:BA:888:C:OP1	2.58	0.52
18:AR:47:THR:CG2	18:AR:49:LYS:HZ1	2.19	0.52
18:AR:75:ILE:C	18:AR:77:GLY:N	2.67	0.52
22:AV:7:A:N1	22:AV:67:C:N3	2.58	0.52
22:AW:24:G:H2'	22:AW:25:C:C6	2.45	0.52
26:B0:46:LYS:HE3	26:B0:78:TYR:OH	2.10	0.52
27:B1:25:LYS:HD2	36:BA:388:G:C4'	2.32	0.52
27:B1:62:VAL:HG13	27:B1:67:ILE:HG12	1.92	0.52
27:B1:67:ILE:N	27:B1:68:PRO:CD	2.72	0.52
28:B2:2:LYS:HB3	36:BA:97:C:H5''	1.90	0.52
31:B5:18:ALA:O	31:B5:21:SER:HB3	2.10	0.52
33:B7:31:LEU:C	33:B7:33:ARG:H	2.18	0.52
36:BA:80:G:H1'	36:BA:346:A:N1	2.25	0.52
36:BA:272(I):U:C2'	36:BA:272(J):C:H5'	2.39	0.52
36:BA:807:U:H2'	36:BA:808:G:O4'	2.09	0.52
36:BA:856:C:H4'	36:BA:857:C:OP1	2.10	0.52
36:BA:911:A:H5''	36:BA:912:C:H5''	1.92	0.52
36:BA:956:G:OP1	49:BQ:87:LYS:HG3	2.10	0.52
36:BA:1052:C:H2'	36:BA:1053:C:C5	2.45	0.52
36:BA:1170:G:H5''	36:BA:1173:G:N2	2.24	0.52
36:BA:1246:A:OP2	48:BP:18:ARG:HG3	2.10	0.52
36:BA:1506:C:H2'	36:BA:1506:C:O2	2.09	0.52
36:BA:2089:U:H3	36:BA:2230:G:H1	1.58	0.52
36:BA:2253:G:O2'	36:BA:2254:C:H5'	2.10	0.52
36:BA:2550:G:O2'	36:BA:2551:C:H5'	2.08	0.52
36:BA:2652:C:C4	36:BA:2653:U:C4	2.98	0.52
36:BA:2880:C:C5	36:BA:2881:C:H5	2.28	0.52
38:BC:110:PHE:O	38:BC:111:ASP:HB2	2.08	0.52
40:BE:51:PHE:HD1	40:BE:52:LEU:N	2.08	0.52
40:BE:96:PHE:HA	40:BE:100:GLU:OE1	2.10	0.52
40:BE:131:ALA:CB	40:BE:134:ILE:HD11	2.40	0.52
41:BF:11:VAL:HG12	41:BF:12:LEU:N	2.21	0.52
41:BF:63:LYS:NZ	41:BF:75:HIS:O	2.37	0.52
41:BF:130:ALA:HB3	41:BF:142:TRP:CD1	2.45	0.52
46:BN:34:LEU:CD2	46:BN:120:LEU:HD23	2.38	0.52
46:BN:40:PRO:HD3	53:BU:68:ALA:HA	1.92	0.52
46:BN:108:PRO:HG2	46:BN:113:GLY:CA	2.40	0.52
47:BO:14:THR:O	47:BO:14:THR:HG22	2.10	0.52
49:BQ:48:GLU:O	49:BQ:52:VAL:HG23	2.09	0.52
50:BR:4:LEU:HG	50:BR:4:LEU:O	2.10	0.52
50:BR:52:ILE:HD12	50:BR:79:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:26:LEU:HD23	51:BS:27:SER:O	2.09	0.52
53:BU:28:ARG:O	53:BU:35:ALA:HA	2.10	0.52
57:BY:13:VAL:CG2	57:BY:73:ARG:O	2.57	0.52
1:CA:603:U:H2'	1:CA:604:G:H8	1.75	0.52
1:CA:620:C:H2'	1:CA:621:A:C8	2.45	0.52
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.09	0.52
1:CA:836:G:C6	1:CA:851:G:C6	2.97	0.52
1:CA:1230:C:O5'	1:CA:1230:C:H6	1.92	0.52
1:CA:1359:C:OP2	14:CN:22:THR:CG2	2.53	0.52
3:CC:206:GLU:O	3:CC:207:VAL:C	2.52	0.52
9:CI:52:ALA:CB	9:CI:95:LYS:HE2	2.29	0.52
9:CI:79:LEU:HD21	9:CI:102:LEU:C	2.35	0.52
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	2.10	0.52
10:CJ:96:ILE:HD13	10:CJ:96:ILE:H	1.73	0.52
16:CP:6:LEU:HD12	16:CP:6:LEU:N	2.24	0.52
18:CR:31:LEU:HD21	18:CR:65:ILE:HD12	1.92	0.52
19:CS:66:MET:O	19:CS:66:MET:HG3	2.09	0.52
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.10	0.52
20:CT:17:ARG:C	20:CT:19:SER:N	2.68	0.52
25:CZ:246:LYS:HD3	25:CZ:281:ILE:CG2	2.39	0.52
25:CZ:385:ARG:HD3	63:CZ:502:KIR:H452	1.91	0.52
26:D0:30:VAL:O	26:D0:31:VAL:HG13	2.09	0.52
36:DA:414:C:N3	36:DA:2410:G:N2	2.57	0.52
36:DA:483:A:C4'	57:DY:49:VAL:HG22	2.39	0.52
36:DA:500:G:N2	36:DA:502:A:H3'	2.25	0.52
36:DA:1094:U:H2'	36:DA:1096:A:OP2	2.08	0.52
36:DA:1278:A:H2'	36:DA:1279:G:H8	1.75	0.52
36:DA:1493:C:H2'	36:DA:1493:C:O2	2.10	0.52
36:DA:1664:A:H61	36:DA:1996:C:H42	1.58	0.52
36:DA:1759:A:C8	36:DA:2696:U:O2	2.63	0.52
36:DA:1822:G:C4	36:DA:1823:G:C8	2.97	0.52
36:DA:1840:G:H1	36:DA:1902:C:H42	1.58	0.52
36:DA:2257:U:O2'	36:DA:2258:C:H5'	2.09	0.52
36:DA:2313:C:H5'	36:DA:2313:C:C6	2.45	0.52
36:DA:2369:A:H2'	36:DA:2370:G:H8	1.75	0.52
36:DA:2557:G:O2'	36:DA:2558:C:H5'	2.10	0.52
36:DA:2688:U:O2	36:DA:2688:U:C3'	2.58	0.52
38:DC:153:ILE:O	38:DC:157:LYS:HB2	2.09	0.52
40:DE:36:ARG:HG2	40:DE:36:ARG:HH11	1.74	0.52
40:DE:195:LEU:HD11	40:DE:197:ILE:HG22	1.91	0.52
42:DG:111:LEU:HB2	42:DG:112:PRO:CD	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:118:PRO:CG	43:DH:121:ILE:HD12	2.39	0.52
46:DN:31:ALA:HA	46:DN:34:LEU:HB2	1.91	0.52
50:DR:73:VAL:CG1	50:DR:77:ARG:HH12	2.23	0.52
52:DT:65:LYS:O	52:DT:72:VAL:HG23	2.10	0.52
53:DU:66:ASN:CB	53:DU:76:TYR:HB2	2.39	0.52
56:DX:3:THR:HA	56:DX:6:ASP:OD2	2.10	0.52
58:DZ:76:LEU:O	58:DZ:84:GLU:HB2	2.10	0.52
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.25	0.52
1:AA:189:G:H2'	1:AA:189(A):C:H6	1.74	0.52
1:AA:191:G:C4	20:AT:105:SER:HB3	2.45	0.52
1:AA:542:G:N2	1:AA:543:C:C2	2.78	0.52
1:AA:813:U:O2'	1:AA:814:A:H5'	2.09	0.52
1:AA:1173:G:H2'	1:AA:1174:G:H8	1.72	0.52
1:AA:1230:C:O5'	1:AA:1230:C:H6	1.91	0.52
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.75	0.52
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.41	0.52
1:AA:1494:G:OP1	59:AA:1601:PAR:N32	2.43	0.52
2:AB:92:TYR:CE1	2:AB:151:GLY:N	2.78	0.52
4:AD:182:LYS:O	4:AD:183:GLY:O	2.28	0.52
5:AE:33:VAL:HG23	5:AE:43:LEU:HD13	1.92	0.52
7:AG:19:GLY:O	7:AG:20:ASP:C	2.53	0.52
7:AG:24:THR:HG22	7:AG:27:ILE:HD12	1.92	0.52
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.10	0.52
8:AH:64:LYS:CD	8:AH:79:VAL:HG21	2.38	0.52
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.25	0.52
9:AI:97:LYS:O	9:AI:98:PRO:C	2.53	0.52
10:AJ:18:ALA:O	10:AJ:21:GLN:N	2.43	0.52
10:AJ:45:ARG:NE	14:AN:36:PHE:CD2	2.78	0.52
13:AM:91:ARG:HB3	13:AM:98:VAL:CG2	2.37	0.52
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.09	0.52
22:AW:7:A:H5''	22:AW:8:U:OP2	2.10	0.52
22:AW:54:U:H4'	38:BC:54:SER:HB2	1.92	0.52
30:B4:46:GLN:CG	30:B4:47:GLN:N	2.73	0.52
31:B5:36:CYS:C	31:B5:38:ALA:H	2.17	0.52
36:BA:76:C:O2'	36:BA:77:C:H5'	2.08	0.52
36:BA:553:G:O2'	36:BA:554:U:H5'	2.09	0.52
36:BA:745:G:OP2	40:BE:133:LYS:HD2	2.10	0.52
36:BA:973:A:O4'	36:BA:1188:U:C6	2.64	0.52
36:BA:1119:C:H2'	36:BA:1120:G:H8	1.75	0.52
36:BA:1299:G:H2'	36:BA:1639:U:O4	2.09	0.52
36:BA:1346:G:H2'	36:BA:1347:G:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2048:G:C2	36:BA:2621:A:C2	2.98	0.52
36:BA:2252:G:O2'	36:BA:2253:G:H5'	2.09	0.52
36:BA:2392:A:H8	48:BP:60:MET:HA	1.74	0.52
36:BA:2469:A:C5	36:BA:2470:G:H1'	2.45	0.52
37:BB:83:G:O2'	37:BB:84:C:H5'	2.10	0.52
38:BC:25:ALA:O	38:BC:28:LEU:N	2.43	0.52
39:BD:73:VAL:C	39:BD:75:ILE:H	2.18	0.52
40:BE:56:PRO:O	40:BE:57:LYS:HD2	2.09	0.52
40:BE:93:VAL:HG12	40:BE:175:VAL:CG2	2.40	0.52
41:BF:31:HIS:O	41:BF:32:LEU:C	2.52	0.52
41:BF:143:ALA:O	41:BF:148:LEU:HB2	2.09	0.52
42:BG:6:ALA:HB3	42:BG:104:GLU:CD	2.35	0.52
48:BP:144:GLU:N	48:BP:145:PRO:HD3	2.25	0.52
50:BR:3:HIS:O	50:BR:5:LYS:HD3	2.10	0.52
51:BS:97:ARG:NE	51:BS:97:ARG:C	2.68	0.52
52:BT:2:ASN:O	52:BT:3:ARG:HG2	2.10	0.52
58:BZ:70:LEU:CD2	58:BZ:91:LEU:HD11	2.40	0.52
58:BZ:153:SER:H	58:BZ:167:PRO:HB3	1.69	0.52
1:CA:585:G:C4'	12:CL:8:ASN:HD21	2.14	0.52
1:CA:697:U:O4'	1:CA:786:G:H4'	2.09	0.52
1:CA:925:G:O2'	1:CA:927:G:OP1	2.24	0.52
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.75	0.52
1:CA:1134:G:N2	1:CA:1141:C:C4	2.78	0.52
1:CA:1499:A:C1'	1:CA:1520:G:H5'	2.39	0.52
2:CB:83:MET:C	2:CB:85:ALA:H	2.18	0.52
2:CB:92:TYR:CD1	2:CB:92:TYR:C	2.88	0.52
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.93	0.52
5:CE:53:LEU:O	5:CE:54:ALA:C	2.53	0.52
12:CL:55:VAL:HG23	12:CL:68:ALA:O	2.09	0.52
15:CO:7:GLU:O	15:CO:10:LYS:HB3	2.10	0.52
17:CQ:61:GLU:HA	17:CQ:71:PHE:CD1	2.45	0.52
20:CT:75:ASN:O	20:CT:79:ARG:HB2	2.10	0.52
22:CV:65:G:O2'	22:CV:66:U:H5'	2.10	0.52
25:CZ:154:VAL:HG12	25:CZ:158:LEU:HD11	1.92	0.52
25:CZ:316:PHE:CE2	25:CZ:400:VAL:HG22	2.45	0.52
25:CZ:347:THR:CG2	25:CZ:348:ASP:H	2.22	0.52
33:D7:11:LYS:HZ3	36:DA:686:G:H5''	1.76	0.52
34:D8:25:MET:CG	48:DP:64:LYS:HB2	2.37	0.52
36:DA:324:A:O2'	36:DA:325:G:H5'	2.10	0.52
36:DA:970:C:H2'	36:DA:971:C:H6	1.75	0.52
36:DA:976:C:H2'	36:DA:977:G:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1278:A:H2'	36:DA:1279:G:C8	2.44	0.52
36:DA:1463:C:H2'	36:DA:1464:C:O4'	2.09	0.52
36:DA:1540:U:H3'	36:DA:1541:G:H3'	1.92	0.52
36:DA:1542:A:C8	36:DA:1544:A:H5'	2.45	0.52
36:DA:1607:C:H4'	36:DA:1608:A:O5'	2.10	0.52
36:DA:1798:U:H5''	39:DD:260:ARG:H	1.74	0.52
36:DA:2041:U:OP2	36:DA:2041:U:H6	1.93	0.52
36:DA:2125:G:OP1	38:DC:40:THR:HG21	2.09	0.52
36:DA:2391:G:O6	36:DA:2425:A:H8	1.93	0.52
36:DA:2518:A:O2'	36:DA:2519:U:H5'	2.10	0.52
36:DA:2554:U:H2'	36:DA:2555:U:H6	1.75	0.52
36:DA:2711:A:OP1	36:DA:2712(A):A:P	2.68	0.52
38:DC:130:ILE:C	38:DC:132:GLY:H	2.17	0.52
39:DD:79:VAL:CG1	39:DD:113:VAL:HA	2.39	0.52
41:DF:25:PRO:HB3	41:DF:119:ARG:CA	2.40	0.52
41:DF:31:HIS:O	41:DF:32:LEU:C	2.53	0.52
41:DF:62:ARG:HG2	41:DF:62:ARG:HH11	1.75	0.52
41:DF:117:ARG:NH2	48:DP:5:ASP:N	2.58	0.52
41:DF:118:ALA:O	41:DF:119:ARG:C	2.53	0.52
41:DF:157:VAL:CG2	41:DF:194:MET:HG2	2.39	0.52
46:DN:65:LYS:O	46:DN:69:GLN:HB2	2.10	0.52
49:DQ:45:GLN:H	49:DQ:45:GLN:CD	2.11	0.52
50:DR:55:ALA:HB1	50:DR:79:LEU:HD11	1.92	0.52
50:DR:73:VAL:HG12	50:DR:77:ARG:HH12	1.74	0.52
51:DS:52:SER:HB3	51:DS:55:ALA:HB3	1.91	0.52
52:DT:26:ASP:HB3	52:DT:89:VAL:O	2.10	0.52
52:DT:94:ALA:C	52:DT:96:ARG:N	2.68	0.52
53:DU:92:ARG:O	53:DU:94:ASN:N	2.43	0.52
55:DW:13:SER:O	55:DW:17:VAL:HG23	2.09	0.52
58:DZ:11:GLU:CD	58:DZ:11:GLU:N	2.68	0.52
1:AA:236:G:C6	1:AA:237:C:C4	2.98	0.51
1:AA:973:G:O4'	10:AJ:55:LYS:HE2	2.10	0.51
1:AA:993:G:N2	1:AA:1046:A:HI'	2.17	0.51
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.74	0.51
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.71	0.51
1:AA:1134:G:N2	1:AA:1141:C:C4	2.78	0.51
1:AA:1487:G:C2'	1:AA:1488:G:H5'	2.40	0.51
2:AB:8:LYS:CD	2:AB:217:ARG:NH2	2.73	0.51
2:AB:138:LEU:C	2:AB:140:HIS:H	2.19	0.51
2:AB:162:ILE:HG21	2:AB:184:VAL:HG22	1.91	0.51
4:AD:61:LYS:HA	4:AD:203:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:76:ARG:O	4:AD:79:PHE:HB3	2.10	0.51
5:AE:69:VAL:O	5:AE:71:LEU:HG	2.09	0.51
8:AH:81:HIS:HB2	8:AH:138:TRP:CZ3	2.45	0.51
9:AI:57:GLY:O	9:AI:58:HIS:CB	2.58	0.51
11:AK:34:ASP:C	11:AK:36:ASP:H	2.18	0.51
12:AL:41:ARG:HH11	12:AL:41:ARG:CG	2.23	0.51
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.10	0.51
15:AO:39:LEU:CD2	15:AO:43:LEU:HG	2.40	0.51
16:AP:25:ARG:HG3	16:AP:25:ARG:HH11	1.75	0.51
18:AR:69:THR:O	18:AR:72:ARG:N	2.43	0.51
20:AT:93:GLU:CD	20:AT:93:GLU:C	2.79	0.51
24:AY:61:C:C3'	24:AY:62:U:H5''	2.40	0.51
25:AZ:86:ALA:O	25:AZ:87:ASP:CB	2.58	0.51
25:AZ:171:ILE:CG2	25:AZ:172:ARG:N	2.72	0.51
25:AZ:246:LYS:HD3	25:AZ:281:ILE:CG2	2.40	0.51
27:B1:67:ILE:O	27:B1:68:PRO:C	2.50	0.51
28:B2:16:LEU:HD13	28:B2:24:LEU:CD1	2.40	0.51
30:B4:31:ILE:HG22	30:B4:33:VAL:HG23	1.90	0.51
34:B8:49:VAL:HG12	34:B8:50:LEU:H	1.75	0.51
35:B9:12:ASP:CG	35:B9:13:LYS:N	2.68	0.51
36:BA:456:C:C2	56:BX:69:TYR:HE2	2.28	0.51
36:BA:615:G:H2'	36:BA:616:G:H8	1.74	0.51
36:BA:949:C:O2'	36:BA:950:G:H5'	2.10	0.51
36:BA:1094:U:H2'	36:BA:1096:A:OP2	2.09	0.51
36:BA:1174:A:OP1	36:BA:1175:U:H5''	2.10	0.51
36:BA:1607:C:H4'	36:BA:1608:A:O5'	2.10	0.51
36:BA:1949:G:H2'	36:BA:1950:G:C8	2.45	0.51
36:BA:2010:G:OP2	55:BW:41:LYS:NZ	2.43	0.51
36:BA:2120:G:H2'	36:BA:2121:G:H8	1.75	0.51
36:BA:2504:U:O5'	36:BA:2504:U:H6	1.93	0.51
37:BB:19:G:H3'	37:BB:20:C:C6	2.45	0.51
39:BD:261:LYS:HZ1	39:BD:263:ARG:NH1	2.08	0.51
40:BE:36:ARG:HG2	40:BE:36:ARG:HH11	1.75	0.51
40:BE:36:ARG:O	40:BE:37:ARG:HG2	2.10	0.51
40:BE:174:ASP:OD2	40:BE:175:VAL:N	2.43	0.51
41:BF:163:VAL:O	41:BF:166:ALA:HB3	2.10	0.51
42:BG:166:ASP:O	42:BG:168:GLU:N	2.43	0.51
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.57	0.51
48:BP:86:LYS:HB2	48:BP:117:GLU:O	2.10	0.51
51:BS:36:TYR:O	51:BS:37:ALA:HB2	2.09	0.51
52:BT:23:ARG:O	52:BT:24:PRO:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:17:ALA:O	56:BX:18:TYR:C	2.53	0.51
56:BX:74:PRO:O	56:BX:76:ARG:HD2	2.09	0.51
57:BY:75:ILE:HG13	57:BY:76:CYS:H	1.73	0.51
1:CA:47:C:O2'	1:CA:48:C:O5'	2.25	0.51
1:CA:117:G:O6	1:CA:289:G:C1'	2.57	0.51
1:CA:1102:A:H2'	1:CA:1103:C:C6	2.45	0.51
1:CA:1148:U:C2'	1:CA:1149:C:H5'	2.40	0.51
1:CA:1155:G:H2'	1:CA:1156:G:C8	2.45	0.51
1:CA:1306:A:OP1	21:CU:6:ARG:NH2	2.43	0.51
1:CA:1430:C:N3	1:CA:1471:G:N1	2.58	0.51
2:CB:130:ARG:CZ	2:CB:131:PRO:HD2	2.40	0.51
2:CB:130:ARG:HH21	2:CB:131:PRO:HD2	1.74	0.51
2:CB:154:LEU:HD23	2:CB:156:LYS:HZ1	1.74	0.51
4:CD:79:PHE:CE2	4:CD:207:TYR:HD1	2.28	0.51
13:CM:2:ALA:HB3	13:CM:9:ILE:CG2	2.39	0.51
15:CO:8:LYS:O	15:CO:9:GLN:C	2.52	0.51
19:CS:13:ASP:C	19:CS:15:LEU:H	2.18	0.51
20:CT:57:ARG:CZ	20:CT:102:GLY:HA3	2.39	0.51
25:CZ:223:MET:O	25:CZ:223:MET:HG3	2.09	0.51
34:D8:32:LEU:HD12	36:DA:2391:G:OP1	2.10	0.51
36:DA:48:G:H22	36:DA:177:G:H21	1.58	0.51
36:DA:74:A:H5''	36:DA:75:G:C1'	2.39	0.51
36:DA:227:A:H5''	48:DP:76:LYS:CE	2.20	0.51
36:DA:251:A:H2'	36:DA:252:G:O4'	2.10	0.51
36:DA:499:U:H1'	57:DY:47:LYS:HZ3	1.74	0.51
36:DA:603:A:H1'	36:DA:604:G:OP2	2.10	0.51
36:DA:615:G:H2'	36:DA:616:G:C8	2.45	0.51
36:DA:717:G:H2'	36:DA:718:A:C8	2.44	0.51
36:DA:749:C:H4'	36:DA:1271:G:N3	2.25	0.51
36:DA:856:C:H4'	36:DA:857:C:OP1	2.10	0.51
36:DA:966:G:H1'	36:DA:2267:A:H62	1.75	0.51
36:DA:1376:C:C2'	36:DA:1377:G:H5'	2.40	0.51
36:DA:1949:G:H2'	36:DA:1950:G:C8	2.44	0.51
36:DA:2107:C:H2'	36:DA:2108:C:H6	1.75	0.51
36:DA:2120:G:H2'	36:DA:2121:G:H8	1.75	0.51
36:DA:2199:A:OP2	36:DA:2200:C:H5	1.92	0.51
36:DA:2199:A:C5'	36:DA:2200:C:OP2	2.58	0.51
36:DA:2259:G:N1	36:DA:2282:G:C6	2.78	0.51
36:DA:2457:U:O2'	36:DA:2458:G:H5'	2.10	0.51
37:DB:5:C:H2'	37:DB:6:C:C6	2.44	0.51
37:DB:7:G:H3'	37:DB:8:U:C5'	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:66:A:H61	37:DB:108:U:H3'	1.74	0.51
38:DC:110:PHE:O	38:DC:111:ASP:HB2	2.11	0.51
40:DE:198:VAL:CG1	40:DE:199:ARG:H	2.11	0.51
41:DF:158:THR:HB	41:DF:195:ASP:CB	2.39	0.51
43:DH:46:GLU:HB3	43:DH:50:VAL:HG13	1.92	0.51
49:DQ:41:TRP:HB3	49:DQ:94:VAL:HG11	1.91	0.51
49:DQ:76:LYS:HB2	49:DQ:91:GLU:HG3	1.92	0.51
49:DQ:86:GLY:O	49:DQ:87:LYS:HB2	2.10	0.51
50:DR:43:GLU:OE2	50:DR:43:GLU:HA	2.10	0.51
55:DW:41:LYS:C	55:DW:43:GLY:N	2.61	0.51
55:DW:65:LEU:HB3	55:DW:68:ARG:HD2	1.91	0.51
57:DY:85:VAL:HG12	57:DY:86:ARG:H	1.73	0.51
58:DZ:24:LEU:O	58:DZ:24:LEU:HD23	2.09	0.51
58:DZ:101:PRO:HG2	58:DZ:136:PHE:N	2.26	0.51
1:AA:556:C:O2'	1:AA:557:G:H5'	2.11	0.51
1:AA:581:G:O6	1:AA:758:G:C8	2.63	0.51
1:AA:658:G:H2'	1:AA:659:U:H6	1.75	0.51
1:AA:779:C:O3'	11:AK:122:LYS:HA	2.10	0.51
1:AA:858:G:N1	1:AA:869:G:C8	2.78	0.51
1:AA:1434:A:H2'	1:AA:1435:G:O4'	2.10	0.51
1:AA:1441:G:H4'	1:AA:1442:G:N3	2.25	0.51
2:AB:17:PHE:HB3	2:AB:44:LEU:CD2	2.41	0.51
2:AB:83:MET:C	2:AB:85:ALA:H	2.17	0.51
2:AB:149:LEU:O	2:AB:150:SER:C	2.53	0.51
3:AC:66:VAL:O	3:AC:66:VAL:HG12	2.10	0.51
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.23	0.51
3:AC:156:ARG:H	3:AC:163:ALA:HA	1.74	0.51
4:AD:129:ASN:HD21	4:AD:145:GLU:N	2.08	0.51
4:AD:186:LEU:O	4:AD:187:ARG:HB2	2.09	0.51
5:AE:41:VAL:HG11	5:AE:113:ALA:HA	1.90	0.51
8:AH:119:LEU:HB3	8:AH:123:GLU:HB2	1.93	0.51
13:AM:39:ILE:HG22	13:AM:40:ASN:N	2.26	0.51
13:AM:81:LEU:N	13:AM:81:LEU:CD2	2.74	0.51
19:AS:10:PHE:CE1	19:AS:70:LYS:HD2	2.45	0.51
22:AV:5:G:O2'	22:AV:6:G:H5'	2.10	0.51
22:AW:52:G:N2	22:AW:53:G:H1'	2.25	0.51
25:AZ:314:THR:HG22	25:AZ:377:PRO:HA	1.92	0.51
31:B5:43:HIS:N	31:B5:43:HIS:CD2	2.78	0.51
34:B8:47:LYS:HD3	34:B8:48:PHE:O	2.10	0.51
35:B9:2:LYS:HG3	36:BA:2526:G:H21	1.76	0.51
35:B9:9:ARG:O	35:B9:11:CYS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:21:A:H2'	36:BA:22:C:H6	1.74	0.51
36:BA:49:A:N3	36:BA:49:A:H5'	2.25	0.51
36:BA:371:A:N1	36:BA:401:A:H5''	2.24	0.51
36:BA:606:U:H2'	36:BA:607:U:C4'	2.40	0.51
36:BA:607:U:OP1	41:BF:102:PRO:HA	2.10	0.51
36:BA:713:G:H2'	36:BA:714:U:C6	2.46	0.51
36:BA:723:G:H2'	36:BA:724:U:O4'	2.10	0.51
36:BA:1130:U:O2	36:BA:2025:C:H5''	2.10	0.51
36:BA:1655:A:H1'	40:BE:113:PHE:HD2	1.75	0.51
38:BC:117:PRO:HD3	38:BC:146:GLY:N	2.25	0.51
38:BC:120:MET:SD	38:BC:123:VAL:HG11	2.51	0.51
39:BD:137:PRO:HB2	39:BD:140:THR:HG23	1.92	0.51
42:BG:12:TYR:CD1	42:BG:12:TYR:N	2.78	0.51
46:BN:46:VAL:HG13	46:BN:48:MET:H	1.76	0.51
46:BN:103:VAL:O	46:BN:104:LYS:C	2.52	0.51
48:BP:61:ARG:C	48:BP:62:LEU:HD23	2.35	0.51
51:BS:78:LEU:HD11	51:BS:103:GLU:CB	2.39	0.51
58:BZ:30:ASN:ND2	58:BZ:32:HIS:H	2.09	0.51
1:CA:364:A:H2'	1:CA:365:U:C2	2.46	0.51
1:CA:365:U:O5'	1:CA:365:U:O2	2.29	0.51
1:CA:404:U:H5'	4:CD:122:ARG:HD3	1.93	0.51
1:CA:577:G:C1'	1:CA:816:A:C4	2.94	0.51
1:CA:750:G:H21	15:CO:24:SER:H	1.58	0.51
1:CA:1189:C:O3'	3:CC:5:ILE:HD12	2.09	0.51
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.45	0.51
1:CA:1432:G:OP2	52:DT:108:ARG:NE	2.43	0.51
1:CA:1462:G:O2'	1:CA:1463:C:H5'	2.09	0.51
2:CB:28:PHE:HD1	2:CB:28:PHE:O	1.94	0.51
2:CB:219:VAL:CA	2:CB:222:ILE:HG12	2.41	0.51
3:CC:72:LYS:C	3:CC:74:GLY:H	2.17	0.51
3:CC:94:LEU:O	3:CC:94:LEU:CD1	2.57	0.51
7:CG:36:LYS:C	7:CG:39:ALA:HB3	2.34	0.51
8:CH:39:LEU:HB2	8:CH:45:ILE:HD11	1.91	0.51
11:CK:57:THR:CG2	11:CK:60:ALA:H	2.23	0.51
11:CK:69:ALA:O	11:CK:70:LYS:C	2.51	0.51
13:CM:14:ARG:H	13:CM:44:ARG:HH11	1.58	0.51
13:CM:113:PRO:O	13:CM:115:LYS:HD3	2.10	0.51
20:CT:38:LYS:C	20:CT:40:ALA:H	2.19	0.51
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.92	0.51
22:CW:17:C:N4	36:DA:2180:U:H3	2.07	0.51
24:CY:23:A:H2'	24:CY:24:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:146:LEU:N	25:CZ:149:LEU:HD23	2.25	0.51
26:D0:46:LYS:HE3	26:D0:78:TYR:OH	2.10	0.51
27:D1:45:ASN:CB	27:D1:64:ALA:HB2	2.40	0.51
32:D6:35:GLU:CG	32:D6:51:GLU:HG3	2.39	0.51
33:D7:11:LYS:NZ	36:DA:685:A:OP1	2.42	0.51
34:D8:6:THR:HG1	36:DA:243:U:P	2.33	0.51
34:D8:43:GLN:C	34:D8:44:LYS:HD2	2.34	0.51
35:D9:7:VAL:HG12	35:D9:25:VAL:HG21	1.92	0.51
36:DA:306:U:H2'	36:DA:307:G:C8	2.45	0.51
36:DA:391:G:C5	36:DA:392:C:C5	2.99	0.51
36:DA:401:A:H2'	36:DA:402:A:H8	1.75	0.51
36:DA:419:C:H2'	36:DA:420:C:H6	1.74	0.51
36:DA:729:G:H5'	36:DA:730:C:H5''	1.92	0.51
36:DA:1199:U:H1'	53:DU:4:ALA:HB2	1.92	0.51
36:DA:1520:G:C2'	36:DA:1523:U:H5'	2.40	0.51
36:DA:1623:G:O2'	36:DA:1624:G:H5'	2.10	0.51
36:DA:1835:G:N3	36:DA:1835:G:H2'	2.24	0.51
36:DA:1854:A:H62	36:DA:1888:G:H8	1.56	0.51
36:DA:2480:C:OP1	36:DA:2537:U:H4'	2.09	0.51
36:DA:2818:G:O2'	36:DA:2819:G:H5'	2.10	0.51
40:DE:31:CYS:HB2	40:DE:49:LEU:HD12	1.91	0.51
40:DE:51:PHE:HD1	40:DE:52:LEU:N	2.08	0.51
50:DR:100:LEU:HD22	50:DR:112:ALA:HA	1.91	0.51
50:DR:107:ASP:O	50:DR:109:ALA:N	2.43	0.51
51:DS:12:PHE:CD2	51:DS:12:PHE:C	2.86	0.51
52:DT:111:ARG:HG2	52:DT:111:ARG:NH1	2.23	0.51
53:DU:66:ASN:ND2	53:DU:70:ARG:HB2	2.24	0.51
53:DU:85:LYS:CD	53:DU:117:GLN:HE22	2.23	0.51
57:DY:74:PRO:HG2	57:DY:81:LYS:O	2.10	0.51
58:DZ:105:VAL:O	58:DZ:105:VAL:HG13	2.10	0.51
58:DZ:163:LEU:CG	58:DZ:165:VAL:HG23	2.40	0.51
1:AA:35:G:H2'	1:AA:36:C:H6	1.69	0.51
1:AA:157:G:O2'	1:AA:158:G:H5'	2.11	0.51
1:AA:786:G:N2	1:AA:787:A:H1'	2.26	0.51
1:AA:954:G:H2'	1:AA:955:U:C6	2.45	0.51
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.46	0.51
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.40	0.51
1:AA:1348:U:O3'	9:AI:120:ARG:HB2	2.09	0.51
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.45	0.51
1:AA:1512:U:O2	1:AA:1523:G:N2	2.42	0.51
2:AB:7:VAL:O	2:AB:7:VAL:HG12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:24:GLU:H	4:AD:112:VAL:CG2	2.24	0.51
4:AD:85:LYS:HD3	4:AD:92:VAL:HG11	1.92	0.51
8:AH:4:ASP:OD1	8:AH:7:ALA:N	2.40	0.51
9:AI:22:GLY:O	9:AI:58:HIS:C	2.53	0.51
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE2	2.28	0.51
12:AL:70:ILE:CD1	12:AL:77:LEU:HD12	2.40	0.51
18:AR:55:ARG:HG3	18:AR:55:ARG:NH1	2.25	0.51
19:AS:28:LYS:HE2	19:AS:29:ARG:CZ	2.40	0.51
19:AS:49:ILE:O	19:AS:60:VAL:O	2.27	0.51
22:AV:56:C:N3	42:BG:83:ARG:HD3	2.25	0.51
25:AZ:145:GLU:O	25:AZ:146:LEU:C	2.52	0.51
25:AZ:171:ILE:HG22	25:AZ:172:ARG:N	2.25	0.51
25:AZ:241:ARG:CA	25:AZ:285:ASN:ND2	2.73	0.51
25:AZ:389:ARG:O	25:AZ:390:GLU:HB2	2.09	0.51
30:B4:14:ILE:HG13	30:B4:31:ILE:HB	1.91	0.51
31:B5:6:VAL:HG22	36:BA:2016:U:H1'	1.92	0.51
36:BA:309:G:O3'	57:BY:18:GLY:HA2	2.10	0.51
36:BA:534:U:H5'	53:BU:42:ALA:HB1	1.91	0.51
36:BA:572:A:N1	36:BA:2033:A:C2	2.79	0.51
36:BA:657:U:C2	36:BA:658:C:C5	2.99	0.51
36:BA:1193:G:N3	36:BA:1194:A:H1'	2.24	0.51
36:BA:1259:G:H2'	36:BA:1260:G:H8	1.74	0.51
36:BA:1331:A:O2'	36:BA:1332:G:C8	2.63	0.51
36:BA:1517:G:C6	36:BA:1518:U:C4	2.99	0.51
36:BA:2317:C:H2'	36:BA:2318:G:H5'	1.92	0.51
36:BA:2467:C:C2'	36:BA:2468:G:H5'	2.40	0.51
36:BA:2681:C:C5	36:BA:2725:A:N6	2.78	0.51
36:BA:2758:A:C2	36:BA:2759:G:H1'	2.44	0.51
38:BC:99:ILE:HG22	38:BC:99:ILE:O	2.09	0.51
41:BF:81:PRO:O	41:BF:82:ILE:O	2.29	0.51
41:BF:185:ASP:HA	41:BF:188:ARG:CG	2.40	0.51
42:BG:71:THR:CB	42:BG:89:GLY:O	2.56	0.51
43:BH:64:LEU:O	43:BH:67:LEU:HB3	2.10	0.51
43:BH:66:GLY:HA2	43:BH:69:ARG:CB	2.39	0.51
51:BS:66:ALA:CA	51:BS:99:LYS:HD3	2.40	0.51
51:BS:106:ARG:HH21	51:BS:109:GLY:N	2.08	0.51
52:BT:1:MET:O	52:BT:1:MET:HG3	2.09	0.51
52:BT:28:VAL:O	52:BT:29:ARG:CD	2.48	0.51
52:BT:65:LYS:NZ	52:BT:65:LYS:HA	2.25	0.51
52:BT:89:VAL:O	52:BT:90:GLN:C	2.53	0.51
53:BU:66:ASN:HA	53:BU:69:CYS:SG	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:23:GLU:O	54:BV:24:LYS:O	2.28	0.51
55:BW:96:ILE:O	55:BW:96:ILE:HG23	2.10	0.51
56:BX:10:ALA:HB1	56:BX:11:PRO:CD	2.40	0.51
56:BX:46:ALA:C	56:BX:47:PHE:HD1	2.18	0.51
57:BY:86:ARG:NH2	57:BY:95:LYS:NZ	2.58	0.51
58:BZ:119:GLU:HG3	58:BZ:122:ARG:HH11	1.75	0.51
58:BZ:151:HIS:HB3	58:BZ:171:ILE:HG12	1.92	0.51
1:CA:647:C:O2'	1:CA:648:A:H5'	2.10	0.51
1:CA:798:G:H2'	1:CA:799:G:O5'	2.11	0.51
1:CA:951:G:C2	1:CA:952:U:C2	2.99	0.51
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.10	0.51
1:CA:1431:C:O2'	1:CA:1432:G:H5'	2.10	0.51
2:CB:138:LEU:C	2:CB:140:HIS:H	2.18	0.51
3:CC:134:ILE:CG2	3:CC:168:ALA:HB3	2.40	0.51
4:CD:9:CYS:SG	4:CD:32:ALA:CB	2.99	0.51
4:CD:100:ARG:O	4:CD:101:LEU:C	2.53	0.51
4:CD:119:GLN:O	4:CD:123:HIS:HD2	1.93	0.51
13:CM:19:LEU:HD12	13:CM:25:ILE:HD13	1.93	0.51
16:CP:82:GLN:O	16:CP:83:GLU:HB2	2.11	0.51
18:CR:69:THR:O	18:CR:72:ARG:N	2.43	0.51
22:CV:44:G:O2'	22:CV:45:U:H5'	2.09	0.51
24:CY:37:YG:O2'	24:CY:38:A:H5'	2.10	0.51
24:CY:60:U:H5''	24:CY:61:C:H5	1.76	0.51
25:CZ:273:HIS:C	25:CZ:275:LYS:H	2.18	0.51
25:CZ:317:GLU:HG3	25:CZ:404:LEU:CD2	2.38	0.51
27:D1:6:GLU:CD	27:D1:60:PHE:CD1	2.88	0.51
28:D2:14:ARG:NH2	36:DA:78:A:H5'	2.16	0.51
31:D5:13:LYS:NZ	36:DA:516:C:P	2.83	0.51
35:D9:35:ARG:NH1	36:DA:2741:A:O3'	2.43	0.51
36:DA:218:A:O2'	36:DA:219:G:H5'	2.10	0.51
36:DA:746:A:O2'	36:DA:2611:U:O2'	2.24	0.51
36:DA:926:A:H5'	36:DA:926:A:C8	2.36	0.51
36:DA:1059:G:H21	45:DK:126:UNK:HA	1.74	0.51
36:DA:1386:C:H2'	36:DA:1387:C:H6	1.74	0.51
36:DA:1825:A:H4'	39:DD:233:HIS:HE1	1.76	0.51
36:DA:1911:U:H2'	36:DA:1912:A:H5'	1.92	0.51
36:DA:2206:G:C2	36:DA:2207:G:H5'	2.46	0.51
37:DB:44:G:H4'	37:DB:45:A:N7	2.24	0.51
39:DD:145:VAL:HG12	39:DD:146:GLU:N	2.26	0.51
41:DF:28:ILE:HD13	41:DF:28:ILE:N	2.25	0.51
41:DF:107:LYS:O	41:DF:110:LEU:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:165:THR:HG23	42:DG:168:GLU:OE2	2.08	0.51
43:DH:127:GLU:OE1	43:DH:128:PRO:HD3	2.10	0.51
45:DK:58:UNK:O	45:DK:65:UNK:HA	2.10	0.51
48:DP:96:THR:H	48:DP:99:LEU:HD22	1.75	0.51
49:DQ:95:ALA:O	49:DQ:97:VAL:HG22	2.10	0.51
54:DV:16:PRO:O	54:DV:96:ILE:HB	2.10	0.51
58:DZ:28:MET:HE1	58:DZ:33:LEU:HD23	1.91	0.51
1:AA:90:U:H4'	1:AA:91:C:C6	2.44	0.51
1:AA:235:C:H1'	17:AQ:61:GLU:OE1	2.10	0.51
1:AA:438:G:C4'	4:AD:123:HIS:HD1	2.22	0.51
1:AA:607:A:H2'	1:AA:608:A:O4'	2.10	0.51
1:AA:706:A:O2'	11:AK:31:THR:HB	2.09	0.51
1:AA:811:C:H4'	1:AA:900:A:H62	1.72	0.51
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.74	0.51
1:AA:1520:G:O2'	1:AA:1521:G:C5'	2.58	0.51
3:AC:58:GLU:O	3:AC:59:ARG:HG3	2.10	0.51
13:AM:14:ARG:HG3	13:AM:44:ARG:CZ	2.40	0.51
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.15	0.51
24:AY:24:G:H2'	24:AY:25:C:H6	1.75	0.51
25:AZ:97:ALA:HA	25:AZ:126:VAL:CG1	2.39	0.51
25:AZ:324:LYS:HA	25:AZ:365:GLY:N	2.25	0.51
28:B2:3:LEU:HD12	36:BA:98:G:H5''	1.93	0.51
28:B2:6:VAL:HA	28:B2:9:GLN:OE1	2.10	0.51
31:B5:3:LYS:HA	31:B5:3:LYS:CE	2.35	0.51
31:B5:41:PRO:C	31:B5:44:THR:HG1	2.17	0.51
34:B8:37:SER:O	34:B8:41:ILE:HG22	2.11	0.51
36:BA:534:U:H5'	53:BU:42:ALA:CB	2.40	0.51
36:BA:613:G:H5'	36:BA:613:G:H8	1.76	0.51
36:BA:708:C:H42	36:BA:723:G:H1	1.58	0.51
36:BA:1064:C:C2'	36:BA:1065:U:H5''	2.40	0.51
36:BA:1087:G:N2	36:BA:1103:A:H61	2.07	0.51
36:BA:1248:G:OP1	41:BF:92:PRO:HG3	2.09	0.51
36:BA:1542:A:C8	36:BA:1544:A:H5'	2.46	0.51
36:BA:1669:A:OP2	36:BA:1670:C:OP2	2.28	0.51
36:BA:2038:G:H2'	36:BA:2039:C:O4'	2.10	0.51
36:BA:2107:C:C2	36:BA:2108:C:C5	2.99	0.51
36:BA:2589:A:H2'	36:BA:2590:A:O4'	2.10	0.51
36:BA:2690:C:H4'	36:BA:2872:G:H21	1.73	0.51
38:BC:50:ASP:OD1	38:BC:51:PRO:HD2	2.11	0.51
38:BC:116:THR:HG22	38:BC:147:PHE:HA	1.93	0.51
39:BD:35:LYS:HB2	39:BD:104:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BD:227:ASN:HB3	39:BD:228:PRO:HD2	1.92	0.51
40:BE:132:HIS:HD2	40:BE:135:HIS:NE2	2.07	0.51
41:BF:7:TYR:HD2	41:BF:16:GLY:N	2.08	0.51
41:BF:28:ILE:H	41:BF:28:ILE:CD1	2.20	0.51
43:BH:94:TYR:HE2	43:BH:152:ARG:HG2	1.75	0.51
48:BP:22:GLY:O	48:BP:29:LYS:HB2	2.11	0.51
49:BQ:92:GLY:C	49:BQ:93:TYR:CD1	2.88	0.51
50:BR:37:THR:HG23	50:BR:40:LYS:HE2	1.91	0.51
50:BR:87:TYR:O	50:BR:89:ASP:N	2.40	0.51
52:BT:89:VAL:CB	52:BT:91:ARG:HE	2.23	0.51
54:BV:5:VAL:O	54:BV:11:GLN:HA	2.11	0.51
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.74	0.51
54:BV:46:VAL:O	54:BV:46:VAL:HG13	2.11	0.51
56:BX:46:ALA:C	56:BX:47:PHE:CD1	2.88	0.51
58:BZ:54:HIS:CD2	58:BZ:101:PRO:HD3	2.46	0.51
58:BZ:102:LEU:HD11	58:BZ:124:ILE:HG21	1.92	0.51
1:CA:64:G:H5'	1:CA:65:U:OP1	2.10	0.51
1:CA:658:G:H2'	1:CA:659:U:H6	1.75	0.51
1:CA:854:G:H3'	1:CA:871:U:O4	2.10	0.51
1:CA:922:G:H2'	1:CA:923:A:C8	2.45	0.51
1:CA:972:C:O3'	10:CJ:57:LYS:HG2	2.10	0.51
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.50	0.51
1:CA:1399:C:H4'	1:CA:1400:C:O5'	2.10	0.51
1:CA:1429:C:O2'	36:DA:1704:G:H5'	2.10	0.51
1:CA:1487:G:H2'	1:CA:1488:G:H8	1.75	0.51
5:CE:107:ARG:HG3	5:CE:111:GLU:CD	2.34	0.51
5:CE:143:ARG:HG3	5:CE:143:ARG:HH11	1.74	0.51
7:CG:34:GLY:C	7:CG:36:LYS:H	2.17	0.51
8:CH:119:LEU:HB3	8:CH:123:GLU:HB2	1.91	0.51
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.11	0.51
9:CI:65:VAL:HG11	9:CI:73:GLN:NE2	2.26	0.51
11:CK:77:MET:O	11:CK:78:GLN:HG2	2.11	0.51
11:CK:125:PHE:C	11:CK:127:LYS:N	2.66	0.51
13:CM:40:ASN:ND2	13:CM:43:THR:HG23	2.25	0.51
19:CS:28:LYS:O	19:CS:29:ARG:HG3	2.10	0.51
19:CS:62:ILE:HD12	19:CS:66:MET:CE	2.38	0.51
21:CU:4:GLY:O	21:CU:6:ARG:N	2.42	0.51
22:CV:53:G:H1	22:CV:61:C:N4	1.91	0.51
22:CW:24:G:H2'	22:CW:25:C:C6	2.45	0.51
25:CZ:126:VAL:HA	63:CZ:502:KIR:H473	1.90	0.51
25:CZ:188:THR:HG23	25:CZ:192:GLU:CD	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:356:PRO:C	25:CZ:359:VAL:HG22	2.29	0.51
32:D6:35:GLU:CB	32:D6:51:GLU:HG3	2.41	0.51
33:D7:8:ASN:HB3	33:D7:11:LYS:HB3	1.92	0.51
33:D7:31:LEU:C	33:D7:33:ARG:H	2.17	0.51
35:D9:12:ASP:CG	35:D9:13:LYS:N	2.67	0.51
36:DA:205:G:O2'	36:DA:206:U:OP2	2.27	0.51
36:DA:272(I):U:C2'	36:DA:272(J):C:H5'	2.40	0.51
36:DA:515:A:H2'	36:DA:516:C:O4'	2.10	0.51
36:DA:646:A:H3'	36:DA:647:G:H8	1.76	0.51
36:DA:713:G:H2'	36:DA:714:U:C6	2.45	0.51
36:DA:1451:C:OP2	36:DA:1451:C:H6	1.94	0.51
36:DA:1932:A:H2'	36:DA:1933:G:O4'	2.10	0.51
36:DA:2138:C:H2'	36:DA:2139:C:C6	2.45	0.51
36:DA:2188:C:H2'	36:DA:2189:U:N1	2.25	0.51
36:DA:2246:G:C8	36:DA:2426:A:C6	2.99	0.51
36:DA:2281:C:H2'	36:DA:2282:G:C8	2.45	0.51
36:DA:2286:A:C2	36:DA:2346:A:N6	2.79	0.51
36:DA:2292:C:H42	36:DA:2340:G:H1	1.58	0.51
36:DA:2654:A:O2'	36:DA:2655:G:H4'	2.10	0.51
39:DD:73:VAL:C	39:DD:75:ILE:H	2.19	0.51
40:DE:192:ASN:HD22	40:DE:192:ASN:C	2.19	0.51
41:DF:159:GLY:C	41:DF:164:ARG:HH21	2.18	0.51
42:DG:82:LEU:HD22	42:DG:87:PRO:CG	2.38	0.51
43:DH:34:GLU:O	43:DH:36:PRO:HD3	2.11	0.51
43:DH:37:VAL:HG11	43:DH:68:THR:HG21	1.92	0.51
43:DH:125:VAL:O	43:DH:125:VAL:HG12	2.10	0.51
45:DK:14:UNK:CB	45:DK:50:UNK:HA	2.41	0.51
46:DN:27:ALA:O	46:DN:28:THR:C	2.54	0.51
46:DN:93:THR:O	46:DN:93:THR:HG23	2.10	0.51
47:DO:77:ILE:HD13	52:DT:74:ARG:HG2	1.93	0.51
49:DQ:32:TYR:HE2	49:DQ:111:GLU:HG3	1.72	0.51
49:DQ:48:GLU:HG2	49:DQ:52:VAL:CG2	2.40	0.51
50:DR:42:LYS:O	50:DR:45:ARG:CG	2.58	0.51
51:DS:84:GLN:HA	51:DS:105:ALA:HB3	1.93	0.51
54:DV:52:VAL:HG13	54:DV:55:ALA:CB	2.32	0.51
56:DX:10:ALA:HB3	56:DX:29:TRP:CD1	2.44	0.51
57:DY:13:VAL:HG22	57:DY:14:LEU:H	1.73	0.51
58:DZ:103:ARG:O	58:DZ:103:ARG:HG2	2.10	0.51
58:DZ:165:VAL:CG1	58:DZ:166:SER:N	2.70	0.51
1:AA:51:A:H4'	1:AA:52:G:C5'	2.40	0.51
1:AA:117:G:O6	1:AA:289:G:C1'	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:436:C:H4'	4:AD:157:LEU:CD1	2.41	0.51
1:AA:539:A:H2'	1:AA:540:G:C8	2.45	0.51
1:AA:614:A:C2	1:AA:627:G:C2	2.98	0.51
1:AA:932:C:H2'	1:AA:933:G:C8	2.46	0.51
1:AA:1208:C:N3	1:AA:1209:C:C4	2.79	0.51
1:AA:1249:C:O4'	9:AI:70:LYS:HE2	2.11	0.51
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.11	0.51
1:AA:1423:G:C2'	1:AA:1424:C:H6	2.19	0.51
2:AB:62:ALA:C	2:AB:64:ARG:H	2.18	0.51
2:AB:204:ASN:ND2	2:AB:206:ASP:N	2.53	0.51
4:AD:79:PHE:CE2	4:AD:207:TYR:HD1	2.29	0.51
6:AF:37:VAL:CG1	6:AF:38:GLU:N	2.73	0.51
10:AJ:12:ASP:O	10:AJ:14:LYS:N	2.43	0.51
10:AJ:40:LEU:HG	10:AJ:69:ASN:CB	2.41	0.51
10:AJ:67:THR:CG2	10:AJ:67:THR:O	2.56	0.51
12:AL:11:VAL:HG11	17:AQ:36:ILE:HG21	1.91	0.51
12:AL:60:LEU:C	12:AL:62:SER:N	2.69	0.51
16:AP:27:LYS:O	16:AP:28:ARG:C	2.53	0.51
19:AS:16:LEU:C	19:AS:18:LYS:N	2.67	0.51
19:AS:67:VAL:C	19:AS:69:HIS:H	2.18	0.51
20:AT:57:ARG:NH1	20:AT:57:ARG:CB	2.72	0.51
25:AZ:136:ASN:CG	25:AZ:137:LYS:N	2.66	0.51
25:AZ:259:ALA:O	25:AZ:260:PRO:C	2.53	0.51
27:B1:62:VAL:HG11	27:B1:67:ILE:HG23	1.92	0.51
36:BA:150:C:O2'	36:BA:151:C:H5'	2.10	0.51
36:BA:272(B):G:H2'	36:BA:272(C):G:C8	2.43	0.51
36:BA:425:G:H2'	36:BA:426:C:H6	1.75	0.51
36:BA:440:G:H22	41:BF:46:ARG:HH21	1.57	0.51
36:BA:598:G:H2'	36:BA:599:G:O4'	2.10	0.51
36:BA:1277:G:C2	36:BA:1294:U:O2	2.63	0.51
36:BA:1378:A:O2'	36:BA:1379:A:C5'	2.53	0.51
36:BA:1528:A:O2'	36:BA:1528(A):A:O5'	2.24	0.51
36:BA:1601:G:O2'	36:BA:1602:U:H5'	2.09	0.51
36:BA:2306:C:N4	36:BA:2311:A:C8	2.79	0.51
36:BA:2776:A:H4'	36:BA:2777:G:H5''	1.92	0.51
40:BE:69:LYS:C	40:BE:71:GLY:H	2.19	0.51
40:BE:120:TRP:CB	40:BE:155:LYS:HE3	2.40	0.51
41:BF:31:HIS:CD2	48:BP:13:ASN:HB2	2.45	0.51
41:BF:46:ARG:NH1	41:BF:46:ARG:CG	2.71	0.51
41:BF:118:ALA:O	41:BF:119:ARG:C	2.53	0.51
42:BG:47:LYS:HZ2	42:BG:81:LYS:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:93:THR:HG22	42:BG:94:LEU:N	2.24	0.51
42:BG:174:GLU:HG2	42:BG:175:LEU:HD23	1.92	0.51
43:BH:58:GLU:O	43:BH:62:LYS:HB2	2.10	0.51
48:BP:14:LYS:O	48:BP:15:ARG:HB2	2.10	0.51
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.11	0.51
58:BZ:71:VAL:HA	58:BZ:87:ASP:O	2.11	0.51
58:BZ:80:ARG:O	58:BZ:81:ARG:O	2.29	0.51
1:CA:110:C:C2	1:CA:111:G:C8	2.99	0.51
1:CA:175:C:H4'	20:CT:25:ARG:NH1	2.26	0.51
1:CA:351:G:C4'	1:CA:352:C:OP1	2.54	0.51
1:CA:389:A:C2'	1:CA:390:C:H5'	2.35	0.51
1:CA:660:G:H2'	1:CA:661:G:C8	2.41	0.51
1:CA:1186:G:H21	14:CN:61:TRP:C	2.18	0.51
1:CA:1344:C:H1'	1:CA:1349:A:H4'	1.93	0.51
1:CA:1352:C:O2	1:CA:1371:G:C2	2.63	0.51
2:CB:168:THR:CG2	2:CB:192:SER:HA	2.40	0.51
3:CC:48:TYR:O	3:CC:50:ALA:N	2.44	0.51
4:CD:17:VAL:HG21	4:CD:63:LYS:HZ3	1.75	0.51
8:CH:92:ARG:HB3	8:CH:94:TYR:HE1	1.74	0.51
22:CW:65:G:O2'	22:CW:66:U:H5'	2.10	0.51
22:CW:70:G:H5'	22:CW:70:G:H8	1.76	0.51
24:CY:20:H2U:HN3	36:DA:1066:U:H3	1.57	0.51
25:CZ:12:VAL:HG13	25:CZ:100:ASP:OD2	2.10	0.51
25:CZ:221:PHE:HA	25:CZ:244:ARG:O	2.10	0.51
25:CZ:399:VAL:O	25:CZ:399:VAL:HG13	2.10	0.51
31:D5:10:LYS:HG3	36:DA:1263:U:H1'	1.91	0.51
33:D7:24:THR:C	33:D7:28:ARG:NH2	2.68	0.51
36:DA:17:G:H21	36:DA:555:U:C5'	2.24	0.51
36:DA:53:A:H62	36:DA:117:G:H21	1.58	0.51
36:DA:425:G:H2'	36:DA:426:C:C6	2.45	0.51
36:DA:906:G:O2'	49:DQ:67:ARG:NH2	2.43	0.51
36:DA:1192:G:O6	48:DP:29:LYS:NZ	2.36	0.51
36:DA:1196:C:O4'	36:DA:1226:A:C2	2.64	0.51
36:DA:1403:C:H2'	36:DA:1404:C:O5'	2.11	0.51
36:DA:1471:A:H3'	36:DA:1472:A:H8	1.75	0.51
36:DA:1827:C:O2'	36:DA:1828:G:H5'	2.11	0.51
36:DA:2053:G:H2'	36:DA:2054:A:O4'	2.10	0.51
36:DA:2408:U:H2'	36:DA:2409:G:C8	2.44	0.51
36:DA:2422:A:H3'	36:DA:2422:A:H8	1.75	0.51
36:DA:2467:C:HO2'	36:DA:2468:G:H5'	1.75	0.51
36:DA:2758:A:C2	36:DA:2759:G:H1'	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2766:G:H2'	36:DA:2766:G:N3	2.25	0.51
36:DA:2838:G:H4'	50:DR:45:ARG:HD3	1.91	0.51
38:DC:100:ILE:CG2	38:DC:126:LYS:HB3	2.36	0.51
42:DG:76:SER:HA	42:DG:83:ARG:HA	1.92	0.51
43:DH:90:LYS:HB3	43:DH:159:GLU:OE2	2.10	0.51
43:DH:92:ILE:C	43:DH:94:TYR:N	2.58	0.51
43:DH:149:ARG:HD3	43:DH:164:TYR:HD1	1.75	0.51
47:DO:12:ASP:C	47:DO:14:THR:H	2.18	0.51
47:DO:105:GLU:HA	47:DO:108:GLU:OE1	2.09	0.51
49:DQ:90:VAL:HG12	49:DQ:91:GLU:H	1.75	0.51
50:DR:4:LEU:HG	50:DR:4:LEU:O	2.09	0.51
50:DR:4:LEU:HD12	50:DR:6:SER:O	2.09	0.51
52:DT:2:ASN:O	52:DT:3:ARG:HG2	2.11	0.51
52:DT:79:HIS:O	52:DT:80:SER:HB3	2.10	0.51
54:DV:28:GLU:HB3	54:DV:29:PRO:HD2	1.92	0.51
57:DY:46:LYS:CB	57:DY:62:GLU:HG2	2.40	0.51
57:DY:95:LYS:CG	57:DY:100:ALA:HA	2.29	0.51
1:AA:59:A:N1	1:AA:331:G:H1'	2.25	0.51
1:AA:665:A:C8	1:AA:725:G:C2	2.99	0.51
1:AA:746:A:O2'	1:AA:747:C:H5'	2.11	0.51
1:AA:1160:G:O6	1:AA:1181:G:C6	2.63	0.51
1:AA:1494:G:H4'	36:BA:1913:A:C8	2.46	0.51
2:AB:155:LEU:CD2	2:AB:159:PRO:HG3	2.41	0.51
2:AB:166:ASP:HB2	2:AB:205:ASP:OD2	2.10	0.51
3:AC:29:TYR:OH	14:AN:54:PRO:HB2	2.10	0.51
3:AC:90:GLU:CA	3:AC:93:LYS:HB3	2.38	0.51
4:AD:120:LEU:HB3	4:AD:126:ILE:HD13	1.92	0.51
5:AE:12:LEU:C	5:AE:12:LEU:HD13	2.36	0.51
6:AF:79:LEU:HD12	6:AF:88:VAL:HG11	1.93	0.51
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.50	0.51
7:AG:116:ALA:O	7:AG:117:ALA:C	2.52	0.51
9:AI:102:LEU:O	9:AI:102:LEU:HD23	2.10	0.51
10:AJ:14:LYS:C	10:AJ:16:LEU:N	2.64	0.51
10:AJ:51:ARG:NE	10:AJ:61:GLU:HB2	2.25	0.51
14:AN:9:LYS:HA	14:AN:12:ARG:NH2	2.25	0.51
18:AR:38:GLU:OE2	18:AR:38:GLU:HA	2.11	0.51
24:AY:23:A:H2'	24:AY:24:G:C8	2.45	0.51
25:AZ:146:LEU:N	25:AZ:149:LEU:HD23	2.25	0.51
25:AZ:171:ILE:HG23	25:AZ:201:GLU:OE1	2.10	0.51
29:B3:50:VAL:HA	29:B3:52:HIS:CE1	2.46	0.51
31:B5:38:ALA:HB1	31:B5:48:GLU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:B9:12:ASP:O	35:B9:14:CYS:N	2.43	0.51
36:BA:67:U:O2'	36:BA:68:G:H5'	2.11	0.51
36:BA:95:G:H2'	36:BA:96:G:O4'	2.10	0.51
36:BA:116:C:H2'	36:BA:117:G:H8	1.71	0.51
36:BA:185:U:H2'	36:BA:186:G:H8	1.75	0.51
36:BA:195:A:OP1	48:BP:46:LYS:NZ	2.42	0.51
36:BA:247:G:H1'	36:BA:251:A:H62	1.76	0.51
36:BA:483:A:H1'	57:BY:60:PHE:HZ	1.73	0.51
36:BA:719:C:O2'	36:BA:720:C:H5'	2.10	0.51
36:BA:1268:A:H2'	36:BA:1269:A:C8	2.45	0.51
36:BA:1473:G:O6	36:BA:1519:G:N2	2.41	0.51
36:BA:1825:A:H4'	39:BD:233:HIS:CE1	2.46	0.51
36:BA:2137:C:H2'	36:BA:2138:C:H6	1.75	0.51
36:BA:2316:C:C2	36:BA:2317:C:C5	2.99	0.51
36:BA:2447:G:C6	36:BA:2501:C:C2	2.99	0.51
36:BA:2683:C:N4	36:BA:2727:G:H21	2.09	0.51
36:BA:2688:U:O2	36:BA:2688:U:C3'	2.58	0.51
36:BA:2713:A:H3'	36:BA:2714:G:H5'	1.93	0.51
38:BC:196:LEU:O	38:BC:198:ALA:N	2.44	0.51
39:BD:26:LYS:C	39:BD:27:THR:HG22	2.36	0.51
39:BD:27:THR:CG2	39:BD:82:ILE:O	2.58	0.51
39:BD:132:PRO:O	39:BD:136:ILE:HD13	2.11	0.51
41:BF:25:PRO:HB3	41:BF:119:ARG:CA	2.41	0.51
41:BF:51:THR:CG2	41:BF:92:PRO:HD2	2.40	0.51
41:BF:99:TYR:O	41:BF:100:THR:C	2.52	0.51
42:BG:43:LEU:HD11	42:BG:153:ARG:CB	2.41	0.51
42:BG:110:ALA:CB	42:BG:140:ILE:HD13	2.41	0.51
46:BN:14:VAL:CG1	46:BN:137:LYS:HG3	2.41	0.51
50:BR:98:LEU:O	50:BR:113:LEU:N	2.44	0.51
51:BS:12:PHE:CD2	51:BS:12:PHE:C	2.86	0.51
51:BS:24:LEU:CD1	51:BS:41:ASP:HB2	2.41	0.51
51:BS:73:LEU:HD23	51:BS:73:LEU:C	2.36	0.51
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.52	0.51
52:BT:55:ASN:N	52:BT:59:THR:HG22	2.07	0.51
53:BU:33:ARG:O	53:BU:36:ARG:HB3	2.10	0.51
53:BU:65:ILE:HG13	53:BU:96:ALA:HB1	1.91	0.51
54:BV:70:ILE:HD12	54:BV:87:HIS:HD2	1.75	0.51
56:BX:31:HIS:O	56:BX:32:PRO:C	2.53	0.51
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.11	0.51
57:BY:13:VAL:HG22	57:BY:14:LEU:H	1.74	0.51
58:BZ:86:VAL:O	58:BZ:87:ASP:OD1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:128:VAL:CG2	58:BZ:129:SER:H	2.20	0.51
58:BZ:149:SER:HB3	58:BZ:172:ALA:O	2.10	0.51
1:CA:192:U:H1'	20:CT:103:GLY:O	2.11	0.51
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.93	0.51
10:CJ:29:ARG:HG2	10:CJ:29:ARG:O	2.11	0.51
11:CK:25:TYR:CE1	11:CK:87:THR:HB	2.44	0.51
14:CN:50:LYS:C	14:CN:52:GLN:H	2.18	0.51
20:CT:23:ARG:HD3	20:CT:23:ARG:C	2.36	0.51
22:CV:33:U:O2	22:CV:35:A:H3'	2.11	0.51
22:CW:56:C:P	38:DC:164:ARG:HH22	2.33	0.51
24:CY:69:C:H2'	24:CY:70:A:H8	1.75	0.51
25:CZ:67:HIS:CE1	25:CZ:98:GLN:HE22	2.14	0.51
25:CZ:221:PHE:CD1	25:CZ:247:VAL:HG13	2.45	0.51
28:D2:38:GLN:HB3	28:D2:44:LEU:HD22	1.93	0.51
30:D4:16:CYS:HA	30:D4:33:VAL:CG1	2.41	0.51
30:D4:22:ILE:H	30:D4:22:ILE:CD1	1.99	0.51
33:D7:1:MET:N	36:DA:1619:G:O2'	2.43	0.51
36:DA:479:A:O2'	36:DA:481:G:C5'	2.58	0.51
36:DA:833:U:O2	48:DP:55:ARG:NH1	2.43	0.51
36:DA:977:G:O2'	36:DA:978:G:H5'	2.10	0.51
36:DA:1154:G:H5''	53:DU:59:ARG:NH2	2.26	0.51
36:DA:1307:A:N3	36:DA:1307:A:H2'	2.25	0.51
36:DA:1344:G:H4'	36:DA:1384:A:N7	2.26	0.51
36:DA:1386:C:H2'	36:DA:1387:C:C6	2.46	0.51
36:DA:2314:C:H6	36:DA:2314:C:O5'	1.94	0.51
36:DA:2358:G:C2'	36:DA:2359:C:H5'	2.40	0.51
37:DB:83:G:O2'	37:DB:84:C:H5'	2.11	0.51
38:DC:81:GLU:O	38:DC:85:GLU:HB3	2.11	0.51
38:DC:116:THR:HG22	38:DC:147:PHE:HA	1.93	0.51
40:DE:174:ASP:OD2	40:DE:175:VAL:N	2.44	0.51
41:DF:60:SER:O	41:DF:77:ASP:HB2	2.11	0.51
41:DF:82:ILE:O	41:DF:83:PHE:HB2	2.08	0.51
41:DF:111:ALA:O	41:DF:115:ALA:N	2.44	0.51
41:DF:158:THR:HB	41:DF:195:ASP:HB3	1.91	0.51
42:DG:162:THR:O	42:DG:164:GLU:OE2	2.28	0.51
46:DN:2:LYS:NZ	54:DV:12:TYR:HA	2.25	0.51
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.58	0.51
47:DO:71:ARG:NE	47:DO:105:GLU:OE2	2.41	0.51
49:DQ:109:VAL:CG1	49:DQ:110:THR:H	2.23	0.51
50:DR:75:LEU:O	50:DR:75:LEU:HD13	2.10	0.51
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:129:ARG:NH1	52:DT:131:ALA:HB3	2.26	0.51
53:DU:52:ARG:HG2	53:DU:55:ARG:HH12	1.76	0.51
53:DU:90:VAL:O	53:DU:91:ASP:C	2.54	0.51
55:DW:17:VAL:C	55:DW:19:LEU:H	2.19	0.51
1:AA:38:G:H22	1:AA:397:A:C5'	2.24	0.51
1:AA:428:G:H4'	1:AA:429:U:O5'	2.10	0.51
1:AA:505:G:C6	1:AA:535:A:C2	2.99	0.51
1:AA:777:A:H2'	1:AA:778:G:H8	1.76	0.51
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	2.10	0.51
2:AB:127:ILE:C	2:AB:129:GLU:H	2.17	0.51
2:AB:130:ARG:NH2	2:AB:134:GLU:HG3	2.25	0.51
2:AB:233:SER:O	2:AB:234:PRO:C	2.54	0.51
5:AE:67:VAL:HG22	5:AE:68:GLU:N	2.25	0.51
5:AE:79:GLU:HA	5:AE:92:LYS:HA	1.92	0.51
5:AE:79:GLU:HB3	5:AE:92:LYS:HG3	1.93	0.51
7:AG:94:ARG:O	7:AG:95:ARG:C	2.54	0.51
8:AH:112:LEU:HA	8:AH:134:ILE:HG12	1.92	0.51
10:AJ:30:SER:C	10:AJ:81:THR:HG22	2.36	0.51
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.32	0.51
12:AL:7:ILE:HD12	12:AL:7:ILE:H	1.76	0.51
12:AL:34:ARG:HG2	12:AL:35:GLY:N	2.25	0.51
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.54	0.51
14:AN:19:ARG:O	14:AN:20:ALA:C	2.54	0.51
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.11	0.51
20:AT:81:LYS:O	20:AT:83:ARG:N	2.44	0.51
25:AZ:219:LYS:HB3	25:AZ:220:PRO:CD	2.40	0.51
25:AZ:271:GLU:HG2	25:AZ:276:THR:CA	2.37	0.51
25:AZ:273:HIS:C	25:AZ:275:LYS:H	2.18	0.51
25:AZ:290:LEU:O	25:AZ:293:VAL:HG22	2.09	0.51
28:B2:35:LEU:HD21	28:B2:50:ILE:HD11	1.91	0.51
31:B5:52:TYR:HE2	36:BA:2884:U:O2	1.94	0.51
36:BA:230:U:O2'	36:BA:231:C:H5'	2.11	0.51
36:BA:564:C:O2'	36:BA:565:C:H5'	2.10	0.51
36:BA:591:C:H2'	36:BA:592:G:H8	1.76	0.51
36:BA:877:U:O2'	36:BA:878:A:H5''	2.10	0.51
36:BA:961:C:C5	36:BA:2031:A:C2	2.98	0.51
36:BA:1012:U:O4	46:BN:28:THR:HG21	2.11	0.51
36:BA:1277:G:O2'	36:BA:1278:A:H5'	2.10	0.51
36:BA:1307:A:N3	36:BA:1307:A:H2'	2.25	0.51
36:BA:1410:G:H2'	36:BA:1411:C:H6	1.75	0.51
36:BA:1902:C:C2'	36:BA:1903:G:O5'	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2103:C:H2'	36:BA:2104:G:C5'	2.40	0.51
36:BA:2259:G:C2	36:BA:2282:G:N1	2.78	0.51
36:BA:2306:C:H4'	42:BG:136:ARG:NH1	2.25	0.51
36:BA:2352:A:C5	36:BA:2366:A:N1	2.79	0.51
36:BA:2529:G:OP2	36:BA:2530:A:H8	1.93	0.51
37:BB:74:U:H2'	37:BB:75:G:H1'	1.92	0.51
39:BD:70:TRP:HZ3	39:BD:146:GLU:CD	2.18	0.51
40:BE:56:PRO:O	40:BE:57:LYS:HB2	2.10	0.51
40:BE:61:ARG:HG2	40:BE:62:PRO:HD3	1.91	0.51
47:BO:71:ARG:HB3	47:BO:72:PRO:HD2	1.92	0.51
49:BQ:87:LYS:O	49:BQ:88:GLY:O	2.29	0.51
53:BU:37:GLU:HA	53:BU:40:PHE:HD1	1.75	0.51
55:BW:10:VAL:HB	55:BW:101:SER:O	2.11	0.51
57:BY:28:LYS:O	57:BY:38:ILE:HG22	2.10	0.51
58:BZ:22:GLY:O	58:BZ:23:LYS:O	2.27	0.51
58:BZ:39:VAL:O	58:BZ:40:ASP:O	2.29	0.51
1:CA:34:C:H1'	12:CL:32:PHE:CE2	2.46	0.51
1:CA:391:G:C2'	1:CA:392:G:O5'	2.58	0.51
1:CA:436:C:H4'	4:CD:157:LEU:CD1	2.40	0.51
1:CA:792:A:O2'	1:CA:794:A:N7	2.38	0.51
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.10	0.51
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.10	0.51
1:CA:1279:A:H2	10:CJ:43:ARG:HH12	1.58	0.51
1:CA:1504:G:H4'	1:CA:1505:G:C5'	2.41	0.51
3:CC:152:ILE:HG22	3:CC:153:VAL:N	2.26	0.51
4:CD:200:GLU:HG2	4:CD:201:GLN:N	2.26	0.51
5:CE:44:GLY:O	5:CE:58:ALA:HB1	2.11	0.51
5:CE:57:LYS:O	5:CE:58:ALA:C	2.54	0.51
10:CJ:30:SER:C	10:CJ:81:THR:HG22	2.35	0.51
10:CJ:40:LEU:HG	10:CJ:69:ASN:CB	2.40	0.51
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.46	0.51
13:CM:102:ARG:HD3	13:CM:105:THR:OG1	2.11	0.51
16:CP:23:ASP:OD1	16:CP:25:ARG:NH1	2.44	0.51
22:CV:11:C:O2'	36:DA:1909:C:H1'	2.10	0.51
25:CZ:21:ASP:N	62:CZ:501:GDP:O1B	2.41	0.51
27:D1:4:VAL:CG2	27:D1:5:CYS:N	2.73	0.51
29:D3:7:LYS:O	29:D3:54:VAL:HG13	2.11	0.51
34:D8:25:MET:HE2	48:DP:64:LYS:HD3	1.93	0.51
34:D8:50:LEU:N	34:D8:53:PRO:HG3	2.25	0.51
36:DA:24:G:H1'	55:DW:77:ASP:OD1	2.10	0.51
36:DA:442:G:C4'	41:DF:46:ARG:HD3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:588:U:H1'	41:DF:90:PHE:CD2	2.45	0.51
36:DA:654(T):C:O2'	36:DA:654(U):A:H5'	2.10	0.51
36:DA:676:A:C8	36:DA:2443:C:H1'	2.36	0.51
36:DA:695:G:OP1	36:DA:1380:G:C4'	2.49	0.51
36:DA:775:G:C5	36:DA:794:G:C8	2.99	0.51
36:DA:896:A:C8	58:DZ:146:ILE:HG21	2.46	0.51
36:DA:1298:C:H1'	36:DA:1302:A:N3	2.25	0.51
36:DA:1902:C:C2'	36:DA:1903:G:O5'	2.59	0.51
36:DA:2158:A:H4'	36:DA:2159:G:OP1	2.11	0.51
38:DC:46:LYS:C	38:DC:47:LEU:HD12	2.35	0.51
38:DC:132:GLY:HA2	38:DC:137:LEU:HB2	1.93	0.51
40:DE:95:ILE:HD13	40:DE:95:ILE:H	1.74	0.51
42:DG:119:GLY:HA3	42:DG:181:ARG:N	2.25	0.51
43:DH:66:GLY:HA2	43:DH:69:ARG:CB	2.40	0.51
46:DN:29:LYS:O	46:DN:33:LEU:HD13	2.10	0.51
47:DO:104:ARG:HH22	47:DO:107:ARG:NH2	2.09	0.51
49:DQ:113:GLN:O	49:DQ:117:ALA:N	2.44	0.51
50:DR:100:LEU:CD2	50:DR:112:ALA:HA	2.41	0.51
52:DT:70:VAL:CG1	52:DT:71:GLY:N	2.73	0.51
58:DZ:63:ASP:CG	58:DZ:65:GLN:HE21	2.18	0.51
1:AA:63:C:N4	1:AA:104:G:H1	2.02	0.51
1:AA:192:U:C1'	20:AT:103:GLY:HA2	2.41	0.51
1:AA:391:G:C2'	1:AA:392:G:O5'	2.59	0.51
1:AA:412:A:H5'	1:AA:413:G:OP1	2.11	0.51
1:AA:421:U:C6	3:AC:127:ARG:NH1	2.79	0.51
1:AA:734:G:H2'	1:AA:735:C:C6	2.46	0.51
1:AA:916:G:C2	1:AA:917:G:C8	2.98	0.51
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.76	0.51
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.93	0.51
2:AB:87:ARG:HH21	2:AB:233:SER:H	1.58	0.51
4:AD:79:PHE:CA	4:AD:93:PHE:CE2	2.94	0.51
4:AD:135:LEU:C	4:AD:137:SER:N	2.67	0.51
5:AE:75:THR:OG1	5:AE:76:ILE:N	2.43	0.51
8:AH:104:ARG:O	8:AH:105:ARG:C	2.54	0.51
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.75	0.51
18:AR:24:ALA:O	18:AR:26:LEU:N	2.44	0.51
24:AY:36:U:O2'	24:AY:37:YG:H5''	2.11	0.51
24:AY:51:C:H2'	24:AY:52:A:H8	1.75	0.51
25:AZ:316:PHE:HD2	25:AZ:400:VAL:HG13	1.74	0.51
25:AZ:363:MET:HB3	25:AZ:364:PRO:CD	2.41	0.51
26:B0:39:ARG:NH2	36:BA:2354:G:H22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:7:LYS:O	29:B3:54:VAL:HG13	2.11	0.51
32:B6:27:LYS:HG3	32:B6:27:LYS:O	2.10	0.51
35:B9:8:LYS:O	35:B9:10:ILE:HD12	2.11	0.51
36:BA:61:G:H1	36:BA:94:C:N4	2.07	0.51
36:BA:208:C:H2'	36:BA:209:C:H6	1.76	0.51
36:BA:655:A:H1'	36:BA:656:G:O4'	2.09	0.51
36:BA:1493:C:H2'	36:BA:1493:C:O2	2.11	0.51
36:BA:1632:A:N6	36:BA:1633:G:N1	2.58	0.51
36:BA:1775:U:H2'	36:BA:1776:G:O4'	2.10	0.51
36:BA:1816:G:H8	39:BD:62:TYR:OH	1.94	0.51
36:BA:1970:A:H5''	36:BA:1971:A:OP1	2.11	0.51
36:BA:2369:A:H2'	36:BA:2370:G:H8	1.76	0.51
36:BA:2485:G:O2'	49:BQ:126:PRO:HA	2.11	0.51
36:BA:2875:C:C4'	52:BT:5:ALA:HB3	2.40	0.51
39:BD:214:TRP:O	39:BD:215:LEU:C	2.54	0.51
41:BF:33:LEU:CD1	41:BF:113:ALA:HB2	2.40	0.51
48:BP:34:GLY:O	48:BP:35:HIS:HB2	2.10	0.51
49:BQ:26:TYR:HA	49:BQ:137:TYR:CD1	2.46	0.51
50:BR:45:ARG:CG	50:BR:46:GLY:H	2.06	0.51
51:BS:14:VAL:C	51:BS:15:ARG:HG3	2.35	0.51
51:BS:74:ALA:C	51:BS:76:LYS:N	2.67	0.51
54:BV:47:VAL:O	54:BV:48:GLY:C	2.54	0.51
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.09	0.51
58:BZ:28:MET:HG3	58:BZ:37:VAL:CG1	2.40	0.51
58:BZ:155:LEU:N	58:BZ:155:LEU:HD23	2.26	0.51
1:CA:511:C:H42	1:CA:540:G:H1	1.59	0.51
1:CA:745:C:O2'	1:CA:746:A:H5'	2.11	0.51
1:CA:1075:C:H4'	1:CA:1101:A:N6	2.26	0.51
2:CB:154:LEU:O	2:CB:156:LYS:HG3	2.10	0.51
2:CB:218:ALA:O	2:CB:222:ILE:HG12	2.11	0.51
4:CD:120:LEU:HB3	4:CD:126:ILE:HD13	1.92	0.51
5:CE:12:LEU:HD12	5:CE:31:LEU:HB3	1.93	0.51
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.41	0.51
5:CE:125:SER:OG	5:CE:126:ARG:N	2.42	0.51
6:CF:93:SER:C	6:CF:94:GLN:HG3	2.36	0.51
11:CK:34:ASP:O	11:CK:36:ASP:N	2.38	0.51
11:CK:92:GLU:OE2	11:CK:95:ILE:HD12	2.11	0.51
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.92	0.51
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.75	0.51
16:CP:27:LYS:O	16:CP:28:ARG:C	2.53	0.51
16:CP:41:PRO:C	16:CP:43:LYS:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CW:31:A:O2'	22:CW:32:U:H5'	2.11	0.51
27:D1:66:HIS:NE2	36:DA:372:G:H5'	2.26	0.51
28:D2:25:VAL:HA	28:D2:28:LYS:HB2	1.92	0.51
29:D3:45:GLY:HA2	29:D3:48:GLU:HG2	1.91	0.51
30:D4:35:VAL:HG12	42:DG:112:PRO:CG	2.41	0.51
30:D4:42:PHE:O	30:D4:43:TYR:O	2.29	0.51
36:DA:13:A:H2	36:DA:14:A:H62	1.54	0.51
36:DA:335:C:H2'	36:DA:336:C:C6	2.46	0.51
36:DA:601:C:H5'	41:DF:108:LYS:HE3	1.93	0.51
36:DA:1271:G:C2	36:DA:1617:C:H4'	2.46	0.51
36:DA:1523:U:H2'	36:DA:1524:G:O4'	2.10	0.51
36:DA:1654:A:OP2	50:DR:3:HIS:CD2	2.63	0.51
36:DA:1801:G:O2'	36:DA:1802:A:H5''	2.10	0.51
36:DA:2103:C:H2'	36:DA:2104:G:C5'	2.40	0.51
36:DA:2111:C:H2'	36:DA:2112:G:C5'	2.40	0.51
36:DA:2523:G:C3'	36:DA:2524:G:H5''	2.39	0.51
36:DA:2540:C:O2	36:DA:2740:A:H2	1.94	0.51
36:DA:2715:C:O2'	36:DA:2716:U:H5'	2.10	0.51
39:DD:244:ARG:HG2	39:DD:245:PRO:HB3	1.93	0.51
40:DE:61:ARG:HG2	40:DE:62:PRO:HD3	1.93	0.51
41:DF:99:TYR:O	41:DF:100:THR:C	2.54	0.51
41:DF:122:LYS:CG	41:DF:191:ARG:HG3	2.41	0.51
43:DH:135:GLY:HA3	43:DH:141:VAL:CG2	2.41	0.51
46:DN:40:PRO:HD3	53:DU:68:ALA:HA	1.93	0.51
46:DN:108:PRO:C	46:DN:109:LYS:HG3	2.36	0.51
49:DQ:55:VAL:HG23	58:DZ:178:GLU:HG3	1.93	0.51
51:DS:34:HIS:NE2	51:DS:54:LEU:HB3	2.25	0.51
52:DT:119:LYS:O	52:DT:123:GLN:HG2	2.11	0.51
1:AA:110:C:O2'	1:AA:111:G:H5'	2.11	0.51
1:AA:135:C:H2'	1:AA:136:C:H5'	1.93	0.51
1:AA:825:G:O2'	1:AA:826:C:H5'	2.11	0.51
1:AA:927:G:H5'	1:AA:927:G:C8	2.44	0.51
1:AA:1177:G:P	9:AI:97:LYS:HZ3	2.34	0.51
1:AA:1316:G:H4'	14:AN:18:VAL:CG1	2.41	0.51
2:AB:184:VAL:O	2:AB:198:ASP:N	2.43	0.51
2:AB:219:VAL:C	2:AB:222:ILE:HG12	2.36	0.51
2:AB:235:SER:O	2:AB:237:ALA:N	2.44	0.51
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.40	0.51
7:AG:104:LEU:O	7:AG:107:ALA:HB3	2.11	0.51
9:AI:48:GLU:O	9:AI:49:PRO:C	2.51	0.51
10:AJ:6:ILE:HG22	10:AJ:97:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.91	0.51
12:AL:53:ARG:HD2	12:AL:53:ARG:H	1.76	0.51
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.76	0.51
13:AM:19:LEU:HD12	13:AM:25:ILE:HD13	1.93	0.51
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.50	0.51
20:AT:37:SER:O	20:AT:40:ALA:HB3	2.11	0.51
24:AY:20:H2U:O4'	24:AY:20:H2U:OP2	2.29	0.51
25:AZ:99:MET:N	25:AZ:241:ARG:HH21	2.09	0.51
26:B0:69:PHE:CE2	26:B0:79:VAL:HG22	2.45	0.51
28:B2:63:VAL:C	28:B2:65:ASN:H	2.17	0.51
32:B6:27:LYS:O	32:B6:28:ARG:C	2.54	0.51
36:BA:84:A:C5'	57:BY:9:LYS:HD2	2.35	0.51
36:BA:177:G:H3'	36:BA:178:G:C8	2.46	0.51
36:BA:576:U:OP1	36:BA:2503:A:OP1	2.29	0.51
36:BA:654(T):C:O2'	36:BA:654(U):A:H5'	2.11	0.51
36:BA:973:A:H5'	36:BA:1188:U:C1'	2.41	0.51
36:BA:1022:G:N7	46:BN:66:LYS:HE3	2.25	0.51
36:BA:1069:A:H1'	36:BA:1070:A:OP2	2.11	0.51
36:BA:1344:G:H4'	36:BA:1384:A:N7	2.26	0.51
36:BA:1429:G:H2'	36:BA:1430:C:C6	2.46	0.51
36:BA:1476:C:H2'	36:BA:1477:A:H8	1.76	0.51
36:BA:1779:U:O2	36:BA:1783:A:N6	2.44	0.51
36:BA:2206:G:H21	36:BA:2207:G:H4'	1.75	0.51
36:BA:2450:A:O2'	36:BA:2451:A:H5'	2.10	0.51
36:BA:2689:U:H4'	36:BA:2690:C:OP2	2.11	0.51
38:BC:132:GLY:HA2	38:BC:137:LEU:HB2	1.93	0.51
40:BE:132:HIS:HD2	40:BE:135:HIS:CE1	2.29	0.51
42:BG:95:ARG:O	42:BG:96:ARG:O	2.29	0.51
47:BO:78:ARG:O	52:BT:73:GLU:N	2.44	0.51
50:BR:28:LEU:CA	50:BR:34:ILE:HG13	2.40	0.51
52:BT:107:ASP:OD2	52:BT:108:ARG:HG2	2.11	0.51
56:BX:3:THR:N	56:BX:6:ASP:OD2	2.44	0.51
56:BX:22:ALA:HB1	56:BX:23:GLU:OE2	2.11	0.51
56:BX:43:VAL:O	56:BX:47:PHE:HB2	2.11	0.51
58:BZ:76:LEU:HD21	58:BZ:82:ARG:N	2.25	0.51
1:CA:59:A:N1	1:CA:331:G:H1'	2.26	0.51
1:CA:357:G:O2'	1:CA:358:U:H5'	2.10	0.51
1:CA:614:A:C2	1:CA:627:G:C2	2.99	0.51
1:CA:651:C:H2'	1:CA:652:U:O4'	2.10	0.51
1:CA:746:A:O2'	1:CA:747:C:H5'	2.11	0.51
1:CA:881:G:P	12:CL:12:ARG:NH2	2.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:179:LYS:C	2:CB:181:PHE:H	2.19	0.51
3:CC:26:LYS:HG3	3:CC:27:LYS:CG	2.29	0.51
4:CD:76:ARG:O	4:CD:80:GLU:HG2	2.10	0.51
5:CE:33:VAL:HG23	5:CE:43:LEU:HD13	1.93	0.51
6:CF:43:LEU:H	6:CF:43:LEU:CD2	2.18	0.51
8:CH:21:LYS:O	8:CH:22:GLU:C	2.53	0.51
8:CH:112:LEU:HA	8:CH:134:ILE:HG12	1.91	0.51
10:CJ:14:LYS:C	10:CJ:16:LEU:N	2.65	0.51
13:CM:6:GLY:C	13:CM:8:GLU:N	2.62	0.51
14:CN:4:LYS:O	14:CN:7:ILE:N	2.42	0.51
19:CS:44:MET:CA	19:CS:47:HIS:HD2	2.12	0.51
20:CT:45:GLN:HB2	20:CT:91:LEU:HD22	1.92	0.51
22:CV:41:C:H2'	22:CV:42:C:H5'	1.92	0.51
24:CY:56:C:O4'	36:DA:1067:A:H1'	2.11	0.51
25:CZ:146:LEU:O	25:CZ:150:VAL:N	2.39	0.51
25:CZ:162:GLU:OE1	63:CZ:502:KIR:H161	2.11	0.51
25:CZ:314:THR:O	25:CZ:373:GLU:HA	2.11	0.51
27:D1:44:PRO:HA	36:DA:396:G:O3'	2.11	0.51
28:D2:31:GLU:HA	28:D2:34:GLU:CB	2.41	0.51
29:D3:35:ARG:HB2	29:D3:35:ARG:NH1	2.21	0.51
31:D5:7:PRO:HA	36:DA:2615:U:N3	2.25	0.51
32:D6:15:GLU:OE2	32:D6:41:PRO:HB3	2.11	0.51
32:D6:32:ASN:O	32:D6:33:LYS:CB	2.59	0.51
34:D8:13:ARG:HA	48:DP:63:PRO:HA	1.91	0.51
36:DA:336:C:H4'	57:DY:7:VAL:HG22	1.92	0.51
36:DA:410:G:N2	36:DA:2407:G:C6	2.79	0.51
36:DA:632:A:O2'	36:DA:633:A:H5'	2.11	0.51
36:DA:877:U:O2'	36:DA:878:A:H5''	2.11	0.51
36:DA:1744:C:C2'	36:DA:1745:C:H5'	2.41	0.51
36:DA:2073:C:H2'	36:DA:2074:U:C6	2.45	0.51
37:DB:105:A:H3'	37:DB:106:G:H8	1.75	0.51
39:DD:196:VAL:O	39:DD:196:VAL:CG1	2.59	0.51
39:DD:248:SER:CB	39:DD:249:PRO:HD2	2.40	0.51
40:DE:1:MET:N	40:DE:83:ASP:O	2.38	0.51
40:DE:24:THR:HG21	40:DE:188:VAL:CG1	2.33	0.51
40:DE:179:GLU:O	40:DE:179:GLU:HG3	2.11	0.51
40:DE:192:ASN:HD22	40:DE:193:GLY:N	2.09	0.51
41:DF:28:ILE:H	41:DF:28:ILE:CD1	2.22	0.51
41:DF:63:LYS:O	41:DF:64:ILE:C	2.51	0.51
41:DF:169:ASN:O	41:DF:170:LEU:C	2.53	0.51
42:DG:161:THR:OG1	42:DG:163:ALA:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:68:THR:HA	43:DH:71:LEU:CG	2.41	0.51
46:DN:34:LEU:CD2	46:DN:120:LEU:HD23	2.41	0.51
46:DN:44:PRO:HG3	53:DU:60:LEU:HD21	1.93	0.51
46:DN:55:VAL:CG2	46:DN:126:PRO:HA	2.29	0.51
48:DP:56:SER:O	48:DP:57:THR:O	2.29	0.51
49:DQ:21:THR:HG23	49:DQ:101:ARG:HB2	1.92	0.51
49:DQ:26:TYR:HA	49:DQ:137:TYR:CD1	2.46	0.51
50:DR:3:HIS:O	50:DR:5:LYS:HD3	2.11	0.51
51:DS:56:LEU:HD22	51:DS:58:LEU:HB2	1.92	0.51
51:DS:61:ASN:O	51:DS:65:VAL:HG21	2.11	0.51
51:DS:98:VAL:HG12	51:DS:100:ALA:N	2.25	0.51
51:DS:106:ARG:NH2	51:DS:109:GLY:N	2.58	0.51
53:DU:101:ARG:O	53:DU:102:GLU:C	2.54	0.51
56:DX:12:VAL:CG1	56:DX:27:THR:H	2.24	0.51
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD13	1.90	0.51
1:AA:516:U:C4	1:AA:517:G:N1	2.79	0.51
1:AA:748:C:O2'	1:AA:749:C:O5'	2.29	0.51
1:AA:880:C:O5'	12:AL:12:ARG:NH1	2.44	0.51
1:AA:885:G:O2'	1:AA:886:G:H5'	2.11	0.51
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.74	0.51
1:AA:1260:C:C6	1:AA:1260:C:C3'	2.94	0.51
1:AA:1327:C:OP1	21:AU:20:LYS:HB3	2.10	0.51
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.74	0.51
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.11	0.51
5:AE:50:GLU:HB3	5:AE:53:LEU:HB2	1.92	0.51
5:AE:82:VAL:O	5:AE:82:VAL:HG12	2.10	0.51
5:AE:143:ARG:HG3	5:AE:143:ARG:HH11	1.76	0.51
7:AG:71:PRO:HA	7:AG:142:GLU:OE1	2.11	0.51
15:AO:35:ARG:O	15:AO:38:ARG:HB2	2.10	0.51
16:AP:21:VAL:HG13	16:AP:34:GLU:H	1.77	0.51
16:AP:71:ARG:O	16:AP:74:LEU:HB2	2.11	0.51
20:AT:19:SER:O	20:AT:20:LEU:C	2.54	0.51
22:AV:65:G:O2'	22:AV:66:U:H5'	2.11	0.51
24:AY:16:H2U:H52	24:AY:17:H2U:H52	1.92	0.51
25:AZ:322:VAL:HG11	25:AZ:364:PRO:HA	1.90	0.51
33:B7:19:ARG:NH2	36:BA:124:G:C8	2.79	0.51
35:B9:7:VAL:HG12	35:B9:25:VAL:HG21	1.93	0.51
35:B9:10:ILE:HD12	35:B9:10:ILE:N	2.05	0.51
36:BA:393:C:H2'	36:BA:394:A:C8	2.46	0.51
36:BA:519:U:H2'	36:BA:520:G:H8	1.76	0.51
36:BA:1192:G:C6	48:BP:29:LYS:NZ	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1458:C:H4'	36:BA:1459:G:O5'	2.11	0.51
36:BA:2117:A:H61	36:BA:2171:A:H61	1.57	0.51
36:BA:2192:G:H2'	36:BA:2193:G:H5'	1.92	0.51
36:BA:2224:G:H4'	36:BA:2226:C:C2	2.46	0.51
36:BA:2283:C:O2'	36:BA:2284:C:H5'	2.10	0.51
36:BA:2649:U:O2'	36:BA:2650:U:H5'	2.10	0.51
36:BA:2796:U:HO2'	36:BA:2799:C:H5'	1.71	0.51
40:BE:154:LYS:O	40:BE:155:LYS:C	2.54	0.51
42:BG:34:LEU:HD11	42:BG:100:TRP:CH2	2.44	0.51
42:BG:74:LYS:O	42:BG:75:LYS:C	2.53	0.51
43:BH:85:LYS:HG3	43:BH:141:VAL:HG12	1.93	0.51
47:BO:77:ILE:HD13	52:BT:74:ARG:HG2	1.93	0.51
48:BP:107:LYS:C	48:BP:109:GLY:H	2.18	0.51
49:BQ:54:MET:HG2	49:BQ:64:ILE:HD13	1.92	0.51
49:BQ:55:VAL:HG23	58:BZ:178:GLU:CB	2.41	0.51
49:BQ:55:VAL:CG2	58:BZ:178:GLU:HB2	2.41	0.51
50:BR:75:LEU:HD13	50:BR:75:LEU:O	2.10	0.51
55:BW:37:ARG:HH11	55:BW:37:ARG:CG	2.24	0.51
55:BW:50:VAL:HG22	55:BW:105:VAL:CG2	2.40	0.51
55:BW:82:LEU:HB3	55:BW:84:ARG:HH12	1.76	0.51
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.11	0.51
1:CA:56:U:H2'	1:CA:57:G:H8	1.73	0.51
1:CA:376:G:O3'	16:CP:5:ARG:HD3	2.10	0.51
1:CA:433:C:O2'	1:CA:434:U:H5'	2.11	0.51
1:CA:666:G:H5'	1:CA:726:C:H1'	1.93	0.51
1:CA:825:G:O2'	1:CA:826:C:H5'	2.10	0.51
1:CA:881:G:H2'	1:CA:882:C:H6	1.76	0.51
1:CA:963:G:N2	10:CJ:55:LYS:HD3	2.25	0.51
1:CA:1208:C:N3	1:CA:1209:C:C4	2.79	0.51
1:CA:1260:C:C6	1:CA:1260:C:C3'	2.94	0.51
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.11	0.51
1:CA:1514:C:O2'	1:CA:1515:C:H5'	2.10	0.51
2:CB:7:VAL:HG12	2:CB:7:VAL:O	2.10	0.51
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.70	0.51
4:CD:65:ARG:HD2	4:CD:72:GLU:N	2.26	0.51
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.36	0.51
5:CE:69:VAL:O	5:CE:71:LEU:HG	2.10	0.51
7:CG:24:THR:HG22	7:CG:27:ILE:HD12	1.93	0.51
8:CH:40:ALA:CA	8:CH:45:ILE:HG13	2.40	0.51
10:CJ:17:ASP:CB	10:CJ:70:ARG:HH21	2.24	0.51
18:CR:53:ARG:CZ	18:CR:59:SER:HA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:66:MET:HE3	19:CS:74:PHE:CZ	2.46	0.51
20:CT:36:LEU:HD13	20:CT:36:LEU:C	2.36	0.51
22:CW:66:U:H2'	22:CW:67:C:C6	2.46	0.51
25:CZ:279:GLU:O	25:CZ:280:GLY:C	2.54	0.51
26:D0:23:VAL:HA	26:D0:38:VAL:HG13	1.92	0.51
28:D2:44:LEU:O	28:D2:44:LEU:HD23	2.11	0.51
29:D3:7:LYS:HG3	29:D3:34:GLU:HB3	1.91	0.51
34:D8:10:ALA:C	34:D8:12:LYS:H	2.19	0.51
36:DA:49:A:N3	36:DA:49:A:H5'	2.26	0.51
36:DA:108:U:H2'	36:DA:109:G:C8	2.46	0.51
36:DA:664:C:H1'	36:DA:940:G:OP1	2.11	0.51
36:DA:874:G:O2'	36:DA:875:G:H5'	2.11	0.51
36:DA:1022:G:N7	46:DN:66:LYS:HE3	2.25	0.51
36:DA:1040:C:C4	36:DA:1041:C:C5	2.98	0.51
36:DA:1150:C:O2'	36:DA:1151:G:H5'	2.11	0.51
36:DA:1601:G:C2'	36:DA:1602:U:H5'	2.41	0.51
36:DA:2059:A:OP1	41:DF:71:GLY:HA3	2.11	0.51
36:DA:2456:C:H2'	36:DA:2457:U:O4'	2.11	0.51
36:DA:2674:G:H2'	36:DA:2675:A:O4'	2.11	0.51
36:DA:2729:G:H21	40:DE:167:VAL:HG23	1.76	0.51
36:DA:2839:G:H5'	50:DR:46:GLY:HA2	1.91	0.51
36:DA:2880:C:C6	36:DA:2880:C:C3'	2.94	0.51
38:DC:83:ILE:HG12	38:DC:95:GLY:HA3	1.93	0.51
40:DE:36:ARG:O	40:DE:37:ARG:HG2	2.10	0.51
42:DG:114:ILE:HD11	42:DG:135:LEU:HD21	1.93	0.51
43:DH:44:VAL:CG1	43:DH:45:VAL:N	2.74	0.51
45:DK:125:UNK:O	45:DK:129:UNK:CB	2.59	0.51
49:DQ:21:THR:HG22	49:DQ:23:GLY:O	2.12	0.51
50:DR:18:LEU:HD13	50:DR:18:LEU:C	2.36	0.51
50:DR:41:ALA:O	50:DR:42:LYS:C	2.53	0.51
51:DS:15:ARG:O	51:DS:18:ILE:HG13	2.11	0.51
51:DS:52:SER:O	51:DS:69:VAL:HG21	2.10	0.51
53:DU:18:LEU:HD11	53:DU:30:LYS:O	2.11	0.51
54:DV:47:VAL:HG23	54:DV:47:VAL:O	2.11	0.51
55:DW:14:PRO:O	55:DW:17:VAL:N	2.44	0.51
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.10	0.51
58:DZ:61:LEU:HG	58:DZ:65:GLN:O	2.11	0.51
58:DZ:100:VAL:CG1	58:DZ:101:PRO:HD2	2.41	0.51
1:AA:390:C:H2'	1:AA:391:G:C8	2.46	0.50
1:AA:458:C:H2'	1:AA:460:G:C8	2.46	0.50
1:AA:570:G:C6	1:AA:873:A:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:620:C:H2'	1:AA:621:A:O4'	2.10	0.50
1:AA:709:G:H2'	1:AA:710:G:C8	2.46	0.50
1:AA:923:A:C5'	5:AE:21:ALA:HB2	2.40	0.50
1:AA:1031:G:H2'	1:AA:1032:G:C8	2.45	0.50
2:AB:130:ARG:HH21	2:AB:131:PRO:HD2	1.75	0.50
4:AD:9:CYS:SG	4:AD:32:ALA:HB3	2.51	0.50
4:AD:180:GLY:O	4:AD:181:MET:C	2.53	0.50
8:AH:13:ILE:O	8:AH:14:ARG:C	2.54	0.50
12:AL:79:GLU:O	12:AL:79:GLU:HG2	2.12	0.50
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.26	0.50
13:AM:55:ARG:O	13:AM:58:GLU:HB2	2.11	0.50
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.25	0.50
22:AV:28:G:O2'	22:AV:29:G:H5'	2.11	0.50
30:B4:6:HIS:CB	42:BG:67:LYS:CE	2.88	0.50
31:B5:4:HIS:CB	31:B5:5:PRO:CD	2.81	0.50
34:B8:13:ARG:HA	48:BP:63:PRO:HA	1.92	0.50
36:BA:197:A:C8	36:BA:2430:A:C2	2.99	0.50
36:BA:261:G:O4'	36:BA:609:A:H2	1.94	0.50
36:BA:493:G:O2'	55:BW:7:ALA:HA	2.11	0.50
36:BA:603:A:H1'	36:BA:604:G:OP2	2.11	0.50
36:BA:654(B):C:H2'	36:BA:654(C):G:H8	1.75	0.50
36:BA:1432:C:H2'	36:BA:1433:U:C6	2.46	0.50
36:BA:1605:C:N4	36:BA:1606:G:C2	2.80	0.50
36:BA:1966:A:H2	36:BA:2592:G:N3	2.09	0.50
36:BA:2282:G:N2	36:BA:2390:U:H3	2.07	0.50
36:BA:2456:C:H2'	36:BA:2457:U:O4'	2.11	0.50
36:BA:2535:G:C2	36:BA:2536:G:C8	2.99	0.50
37:BB:78:A:C6	37:BB:100:A:C8	2.99	0.50
37:BB:105:A:H4'	58:BZ:89:PHE:CE2	2.46	0.50
38:BC:6:ARG:HG2	38:BC:6:ARG:NH1	2.23	0.50
38:BC:19:VAL:HA	38:BC:223:ARG:O	2.12	0.50
38:BC:153:ILE:O	38:BC:157:LYS:HB2	2.11	0.50
39:BD:37:LEU:O	39:BD:38:LYS:C	2.54	0.50
40:BE:3:GLY:HA3	40:BE:81:ILE:HD12	1.92	0.50
40:BE:107:THR:C	40:BE:190:GLY:HA2	2.35	0.50
43:BH:42:ARG:HB2	43:BH:42:ARG:CZ	2.41	0.50
43:BH:86:GLU:HA	43:BH:132:ARG:CB	2.40	0.50
43:BH:97:ARG:HE	43:BH:99:VAL:HG23	1.76	0.50
46:BN:24:GLY:O	46:BN:28:THR:HG22	2.11	0.50
46:BN:48:MET:HE3	46:BN:49:GLY:H	1.76	0.50
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:114:ILE:HG23	48:BP:130:PHE:HA	1.92	0.50
51:BS:14:VAL:O	51:BS:15:ARG:C	2.53	0.50
51:BS:52:SER:HB3	51:BS:55:ALA:HB3	1.92	0.50
51:BS:52:SER:O	51:BS:69:VAL:HG21	2.11	0.50
57:BY:13:VAL:HG23	57:BY:74:PRO:HA	1.92	0.50
1:CA:358:U:H2'	1:CA:359:U:O4'	2.11	0.50
1:CA:407:G:H2'	1:CA:408:A:H8	1.74	0.50
1:CA:500:G:O2'	1:CA:548:G:N2	2.44	0.50
1:CA:665:A:C8	1:CA:725:G:C2	2.99	0.50
1:CA:677:U:H2'	1:CA:678:U:C6	2.46	0.50
1:CA:731:G:O2'	1:CA:732:C:H5'	2.11	0.50
1:CA:864:A:H3'	1:CA:865:A:C8	2.45	0.50
1:CA:1245:A:H61	1:CA:1292:U:H3	1.59	0.50
1:CA:1502:A:H2	1:CA:1505:G:H1	1.59	0.50
2:CB:17:PHE:O	2:CB:17:PHE:CD2	2.59	0.50
2:CB:165:VAL:O	2:CB:167:PRO:HD3	2.11	0.50
2:CB:193:ASP:OD2	2:CB:193:ASP:O	2.29	0.50
4:CD:12:CYS:O	4:CD:33:MET:HE2	2.11	0.50
4:CD:34:GLU:O	4:CD:35:ARG:HB2	2.10	0.50
5:CE:48:ALA:C	5:CE:50:GLU:N	2.69	0.50
8:CH:36:LEU:C	8:CH:38:ILE:N	2.68	0.50
8:CH:38:ILE:HA	8:CH:41:ARG:HB3	1.93	0.50
11:CK:22:HIS:HB3	11:CK:29:ILE:CG2	2.30	0.50
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.41	0.50
13:CM:53:VAL:O	13:CM:56:LEU:HB3	2.11	0.50
13:CM:79:LYS:HA	13:CM:82:MET:HB3	1.93	0.50
15:CO:10:LYS:HA	15:CO:13:GLN:OE1	2.09	0.50
20:CT:59:ALA:O	20:CT:60:GLU:C	2.55	0.50
22:CV:7:A:N1	22:CV:67:C:N3	2.59	0.50
25:CZ:9:LYS:HB3	25:CZ:75:ARG:HA	1.93	0.50
27:D1:83:GLU:OE1	27:D1:84:GLY:N	2.42	0.50
28:D2:69:ARG:NH2	36:DA:111:A:C4'	2.66	0.50
32:D6:7:ILE:O	32:D6:7:ILE:CG2	2.59	0.50
32:D6:26:ASN:O	32:D6:27:LYS:CB	2.58	0.50
32:D6:27:LYS:O	32:D6:28:ARG:C	2.54	0.50
35:D9:2:LYS:HG3	36:DA:2526:G:H21	1.75	0.50
36:DA:444:C:C2'	36:DA:445:C:O5'	2.59	0.50
36:DA:669:G:N3	36:DA:669:G:C2'	2.73	0.50
36:DA:811:U:O2'	36:DA:812:C:H5''	2.10	0.50
36:DA:1119:C:H2'	36:DA:1120:G:H8	1.76	0.50
36:DA:1451:C:H4'	36:DA:1452:A:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1568:G:H4'	39:DD:59:LYS:CG	2.41	0.50
36:DA:1578:U:H2'	36:DA:1578:U:O2	2.10	0.50
36:DA:2121:G:H2'	36:DA:2122:U:H6	1.73	0.50
36:DA:2312:U:O2'	42:DG:40:ASN:ND2	2.44	0.50
39:DD:214:TRP:C	39:DD:216:GLY:N	2.63	0.50
40:DE:132:HIS:HD2	40:DE:135:HIS:NE2	2.09	0.50
41:DF:32:LEU:HD23	41:DF:32:LEU:C	2.35	0.50
41:DF:168:ARG:CG	41:DF:169:ASN:H	2.23	0.50
42:DG:112:PRO:C	42:DG:114:ILE:H	2.19	0.50
43:DH:65:HIS:HE1	43:DH:69:ARG:CZ	2.24	0.50
43:DH:83:TYR:O	43:DH:84:SER:C	2.54	0.50
47:DO:104:ARG:CB	47:DO:104:ARG:CZ	2.89	0.50
48:DP:109:GLY:O	48:DP:110:TYR:C	2.54	0.50
48:DP:144:GLU:N	48:DP:145:PRO:HD3	2.26	0.50
51:DS:85:VAL:HG23	51:DS:86:ALA:N	2.26	0.50
52:DT:89:VAL:O	52:DT:90:GLN:C	2.54	0.50
52:DT:96:ARG:HB2	52:DT:96:ARG:NH1	2.26	0.50
55:DW:65:LEU:HD23	55:DW:68:ARG:CD	2.41	0.50
58:DZ:19:ARG:HH12	58:DZ:85:HIS:HB2	1.75	0.50
1:AA:223:U:O2'	1:AA:224:C:H5'	2.11	0.50
1:AA:358:U:H2'	1:AA:359:U:O4'	2.11	0.50
1:AA:424:G:C2	1:AA:425:G:N7	2.79	0.50
1:AA:433:C:O2'	1:AA:434:U:H5'	2.11	0.50
1:AA:577:G:H1'	1:AA:816:A:N3	2.26	0.50
1:AA:712:A:C2	1:AA:713:G:C4	2.99	0.50
1:AA:858:G:C8	1:AA:858:G:OP2	2.64	0.50
1:AA:881:G:P	12:AL:12:ARG:NH2	2.78	0.50
1:AA:946:A:C2	1:AA:1236:A:C2	2.99	0.50
1:AA:1190:G:P	3:AC:5:ILE:HD12	2.52	0.50
1:AA:1344:C:H1'	1:AA:1349:A:H4'	1.94	0.50
2:AB:106:LYS:CG	2:AB:107:THR:N	2.75	0.50
2:AB:164:VAL:HG12	2:AB:165:VAL:H	1.74	0.50
3:AC:141:VAL:HG11	3:AC:202:ILE:HG23	1.92	0.50
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.41	0.50
8:AH:20:TYR:HA	8:AH:65:TYR:HE2	1.74	0.50
9:AI:93:ARG:HA	9:AI:96:LEU:HB3	1.94	0.50
10:AJ:63:PHE:HA	14:AN:59:ALA:HB2	1.94	0.50
12:AL:41:ARG:NH1	12:AL:57:LYS:NZ	2.59	0.50
16:AP:48:TRP:CD1	16:AP:48:TRP:N	2.79	0.50
21:AU:2:GLY:C	21:AU:4:GLY:N	2.67	0.50
24:AY:48:C:C2'	24:AY:59:A:H1'	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:107:SER:HB3	25:AZ:110:ASP:HB2	1.93	0.50
27:B1:45:ASN:O	27:B1:64:ALA:HB2	2.10	0.50
30:B4:18:CYS:SG	30:B4:19:GLY:N	2.84	0.50
32:B6:51:GLU:O	32:B6:52:VAL:HG23	2.12	0.50
36:BA:145:G:H2'	36:BA:146:G:C5'	2.39	0.50
36:BA:271(J):C:C3'	36:BA:271(K):U:H5''	2.41	0.50
36:BA:280:C:N4	36:BA:360:G:H1	2.09	0.50
36:BA:1217:C:H2'	36:BA:1218:C:C6	2.46	0.50
36:BA:1221:C:H2'	36:BA:1221(A):C:C6	2.47	0.50
36:BA:1485:G:H1'	36:BA:1505:C:N4	2.26	0.50
36:BA:1485:G:H2'	36:BA:1486:A:O4'	2.11	0.50
36:BA:2010:G:C5	36:BA:2011:U:C5	3.00	0.50
36:BA:2020:A:O2'	36:BA:2021:C:C5'	2.57	0.50
36:BA:2107:C:H2'	36:BA:2108:C:H6	1.75	0.50
36:BA:2111:C:H42	36:BA:2147:G:H1	1.58	0.50
36:BA:2462:U:H2'	36:BA:2463:C:C6	2.46	0.50
36:BA:2821:A:H2'	36:BA:2822:G:C8	2.46	0.50
38:BC:74:VAL:HA	38:BC:112:ALA:CB	2.31	0.50
39:BD:27:THR:HG21	39:BD:82:ILE:O	2.11	0.50
39:BD:117:VAL:CG2	39:BD:118:VAL:N	2.73	0.50
39:BD:266:SER:C	39:BD:267:SER:O	2.54	0.50
41:BF:130:ALA:HB3	41:BF:142:TRP:HD1	1.75	0.50
41:BF:169:ASN:O	41:BF:170:LEU:C	2.54	0.50
41:BF:171:PRO:C	41:BF:173:VAL:N	2.69	0.50
42:BG:18:GLU:O	42:BG:20:ILE:N	2.42	0.50
43:BH:67:LEU:CG	43:BH:71:LEU:HD11	2.36	0.50
43:BH:68:THR:HA	43:BH:71:LEU:CG	2.41	0.50
45:BK:17:UNK:O	45:BK:18:UNK:CB	2.59	0.50
49:BQ:45:GLN:HG2	49:BQ:46:GLN:H	1.76	0.50
55:BW:11:ARG:HH21	55:BW:12:ILE:HA	1.75	0.50
57:BY:17:SER:CB	57:BY:71:LYS:HD2	2.41	0.50
1:CA:619:U:C2	4:CD:135:LEU:CD2	2.94	0.50
1:CA:620:C:H2'	1:CA:621:A:O4'	2.11	0.50
1:CA:811:C:H4'	1:CA:900:A:H61	1.72	0.50
1:CA:858:G:N1	1:CA:869:G:C8	2.79	0.50
1:CA:885:G:C6	1:CA:913:A:N6	2.79	0.50
1:CA:987:G:H2'	1:CA:988:G:C8	2.41	0.50
1:CA:1345:U:C6	1:CA:1377:A:C2	2.99	0.50
1:CA:1395:C:O5'	1:CA:1395:C:H6	1.94	0.50
2:CB:162:ILE:CG2	2:CB:184:VAL:HG22	2.41	0.50
5:CE:11:ILE:CG2	5:CE:105:VAL:HG22	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:90:VAL:O	5:CE:120:THR:HA	2.11	0.50
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.51	0.50
7:CG:13:GLN:CD	7:CG:14:PRO:HD2	2.35	0.50
7:CG:17:VAL:HG12	7:CG:18:TYR:N	2.26	0.50
11:CK:63:LEU:O	11:CK:66:LEU:HB2	2.11	0.50
13:CM:79:LYS:O	13:CM:82:MET:HG2	2.11	0.50
14:CN:19:ARG:O	14:CN:20:ALA:O	2.28	0.50
20:CT:18:GLN:O	20:CT:22:ARG:HD2	2.12	0.50
22:CW:35:A:N1	23:CX:17:U:O4	2.44	0.50
24:CY:65:C:H2'	24:CY:66:U:C6	2.46	0.50
25:CZ:86:ALA:O	25:CZ:87:ASP:CB	2.59	0.50
25:CZ:257:GLY:C	25:CZ:258:LEU:HD12	2.36	0.50
25:CZ:389:ARG:O	25:CZ:390:GLU:HB2	2.11	0.50
29:D3:15:TYR:HB3	29:D3:16:PRO:HD2	1.93	0.50
31:D5:12:SER:HB3	36:DA:2020:A:H5'	1.93	0.50
34:D8:62:LEU:HD13	36:DA:242:G:C5'	2.41	0.50
35:D9:18:ARG:O	35:D9:19:ARG:HB3	2.10	0.50
36:DA:18:C:H2'	36:DA:19:C:H6	1.75	0.50
36:DA:371:A:N1	36:DA:401:A:H5''	2.26	0.50
36:DA:1188:U:H5''	54:DV:79:VAL:HG11	1.93	0.50
36:DA:1279:G:H1	36:DA:1291:C:N4	2.09	0.50
36:DA:1484:G:H3'	36:DA:1485:G:H5''	1.90	0.50
36:DA:1812:A:O2'	36:DA:1813:G:H5'	2.11	0.50
36:DA:2100:G:H5'	36:DA:2101:G:OP2	2.11	0.50
36:DA:2123:G:O2'	36:DA:2124:G:H5'	2.12	0.50
36:DA:2328:A:H2'	36:DA:2329:G:H8	1.75	0.50
36:DA:2410:G:H2'	36:DA:2411:A:C8	2.44	0.50
36:DA:2475:C:H5'	36:DA:2476:A:OP2	2.11	0.50
38:DC:196:LEU:O	38:DC:198:ALA:N	2.45	0.50
39:DD:26:LYS:C	39:DD:27:THR:HG22	2.36	0.50
39:DD:37:LEU:O	39:DD:62:TYR:HB3	2.10	0.50
39:DD:85:ASP:CG	39:DD:88:ARG:HH11	2.18	0.50
40:DE:55:ASN:O	40:DE:56:PRO:C	2.52	0.50
42:DG:111:LEU:O	42:DG:114:ILE:CG2	2.59	0.50
43:DH:42:ARG:HB2	43:DH:42:ARG:CZ	2.41	0.50
43:DH:89:ILE:HG22	43:DH:162:ILE:HG13	1.92	0.50
48:DP:107:LYS:C	48:DP:109:GLY:N	2.68	0.50
51:DS:24:LEU:CD1	51:DS:41:ASP:HB2	2.41	0.50
51:DS:27:SER:C	51:DS:28:VAL:CG2	2.84	0.50
51:DS:106:ARG:NH1	51:DS:107:GLU:N	2.41	0.50
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:229:U:O2'	16:AP:23:ASP:HB2	2.11	0.50
1:AA:246:A:C2	1:AA:282:A:C5	2.99	0.50
1:AA:334:C:O2'	1:AA:335:C:H5'	2.11	0.50
1:AA:424:G:H2'	1:AA:425:G:H8	1.76	0.50
1:AA:864:A:H3'	1:AA:865:A:C8	2.47	0.50
1:AA:950:U:H2'	1:AA:951:G:H8	1.76	0.50
1:AA:951:G:C2	1:AA:952:U:C2	2.99	0.50
1:AA:960:U:O2'	1:AA:1223:C:H5'	2.12	0.50
1:AA:1003:G:N2	1:AA:1038:C:C2	2.79	0.50
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.26	0.50
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.11	0.50
4:AD:200:GLU:HG2	4:AD:201:GLN:N	2.26	0.50
5:AE:107:ARG:O	5:AE:111:GLU:HG3	2.11	0.50
7:AG:8:GLU:OE2	7:AG:9:VAL:C	2.54	0.50
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.11	0.50
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.25	0.50
8:AH:109:ILE:HG23	8:AH:137:VAL:HB	1.92	0.50
14:AN:50:LYS:C	14:AN:52:GLN:H	2.19	0.50
20:AT:12:ALA:O	20:AT:15:ARG:HB2	2.11	0.50
25:AZ:27:LEU:HD23	25:AZ:105:VAL:HG22	1.92	0.50
25:AZ:221:PHE:CD1	25:AZ:247:VAL:HG13	2.46	0.50
25:AZ:257:GLY:HA3	25:AZ:302:GLN:HG2	1.93	0.50
25:AZ:389:ARG:C	25:AZ:395:VAL:HG13	2.36	0.50
33:B7:37:LYS:HD2	36:BA:458:G:C8	2.46	0.50
34:B8:5:LYS:HG2	36:BA:242:G:C8	2.46	0.50
35:B9:36:GLN:NE2	36:BA:1031:G:N2	2.48	0.50
36:BA:25:U:H5''	55:BW:79:GLY:HA2	1.91	0.50
36:BA:141:A:N6	36:BA:142:A:H62	2.09	0.50
36:BA:304:G:N3	36:BA:314:A:C2	2.79	0.50
36:BA:306:U:H2'	36:BA:307:G:C8	2.46	0.50
36:BA:425:G:H2'	36:BA:426:C:C6	2.47	0.50
36:BA:654(H):G:C2'	36:BA:654(I):C:H5'	2.41	0.50
36:BA:680:G:H2'	36:BA:681:G:C8	2.45	0.50
36:BA:705:A:C2	36:BA:727:A:H1'	2.47	0.50
36:BA:907:U:H4'	49:BQ:101:ARG:NH1	2.27	0.50
36:BA:1028:A:H61	36:BA:1125:G:H2'	1.76	0.50
36:BA:1523:U:H2'	36:BA:1524:G:O4'	2.10	0.50
36:BA:1993:U:H5''	40:BE:128:SER:HB3	1.93	0.50
36:BA:2125:G:OP1	38:BC:40:THR:HG21	2.11	0.50
36:BA:2390:U:O2'	36:BA:2391:G:H5'	2.11	0.50
36:BA:2517:C:C2	36:BA:2542:A:N1	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2577:A:C5'	36:BA:2578:G:H5'	2.41	0.50
36:BA:2588:G:C6	36:BA:2607:G:C2	2.99	0.50
36:BA:2593:U:H2'	36:BA:2594:C:C6	2.46	0.50
36:BA:2770:G:H5'	36:BA:2771:C:OP2	2.11	0.50
36:BA:2811:G:H5'	40:BE:60:ASN:ND2	2.27	0.50
36:BA:2880:C:C6	36:BA:2880:C:C3'	2.95	0.50
36:BA:2880:C:H1'	50:BR:92:GLY:O	2.12	0.50
39:BD:270:ILE:C	39:BD:271:ILE:HG13	2.32	0.50
40:BE:4:ILE:HG12	40:BE:5:LEU:H	1.77	0.50
42:BG:141:PHE:HB3	42:BG:142:PRO:HD2	1.93	0.50
43:BH:163:TYR:CD1	43:BH:163:TYR:N	2.79	0.50
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.26	0.50
46:BN:29:LYS:O	46:BN:33:LEU:HD13	2.10	0.50
46:BN:32:THR:HG22	46:BN:37:LYS:HB3	1.94	0.50
46:BN:58:ASP:O	46:BN:60:ILE:HG13	2.11	0.50
46:BN:108:PRO:C	46:BN:109:LYS:HG3	2.37	0.50
48:BP:9:ASN:O	48:BP:10:PRO:C	2.52	0.50
49:BQ:34:LEU:HD11	49:BQ:129:THR:CB	2.34	0.50
50:BR:38:VAL:HB	50:BR:39:PRO:CD	2.34	0.50
51:BS:56:LEU:HD22	51:BS:58:LEU:HB2	1.92	0.50
56:BX:20:GLY:C	56:BX:22:ALA:H	2.19	0.50
58:BZ:70:LEU:HD21	58:BZ:91:LEU:CD2	2.37	0.50
1:CA:202:U:O2'	1:CA:203:U:OP1	2.27	0.50
1:CA:356:A:H2'	1:CA:357:G:C8	2.47	0.50
1:CA:525:C:H2'	1:CA:526:C:C6	2.46	0.50
1:CA:541:G:H2'	1:CA:542:G:H8	1.77	0.50
1:CA:828:A:H2'	1:CA:829:G:O4'	2.10	0.50
1:CA:936:C:H2'	1:CA:937:A:C8	2.39	0.50
1:CA:1249:C:O4'	9:CI:70:LYS:HE2	2.11	0.50
1:CA:1250:A:H5'	9:CI:67:GLY:HA2	1.94	0.50
1:CA:1397:C:O2	23:CX:26:A:C8	2.64	0.50
1:CA:1443:G:N3	1:CA:1443:G:H2'	2.26	0.50
2:CB:170:GLU:CA	2:CB:172:ILE:HD12	2.40	0.50
4:CD:67:ILE:O	4:CD:67:ILE:CG2	2.60	0.50
6:CF:1:MET:N	6:CF:68:PRO:HA	2.26	0.50
7:CG:36:LYS:O	7:CG:39:ALA:HB3	2.11	0.50
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.25	0.50
8:CH:14:ARG:HG3	8:CH:83:ILE:HG21	1.92	0.50
11:CK:94:ALA:O	11:CK:95:ILE:C	2.54	0.50
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.11	0.50
13:CM:91:ARG:O	13:CM:92:HIS:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:120:LYS:HA	13:CM:120:LYS:NZ	2.26	0.50
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.36	0.50
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.43	0.50
19:CS:35:SER:C	19:CS:37:ARG:N	2.69	0.50
19:CS:52:TYR:O	19:CS:53:ASN:CB	2.58	0.50
20:CT:72:LEU:CD2	20:CT:76:ALA:HB1	2.37	0.50
24:CY:24:G:H2'	24:CY:25:C:H6	1.74	0.50
25:CZ:348:ASP:O	25:CZ:348:ASP:CG	2.54	0.50
32:D6:5:VAL:HG11	36:DA:2283:C:C4'	2.41	0.50
35:D9:1:MET:CE	36:DA:2477:C:H3'	2.41	0.50
36:DA:263:C:O2'	36:DA:264:C:H5'	2.11	0.50
36:DA:966:G:H1'	36:DA:2267:A:N6	2.26	0.50
36:DA:1416:G:H1'	36:DA:1417:C:C6	2.46	0.50
36:DA:1473:G:N3	36:DA:1474:C:H1'	2.25	0.50
36:DA:1764:G:H2'	36:DA:1765:C:H6	1.77	0.50
36:DA:1826:G:H8	36:DA:1826:G:O5'	1.94	0.50
36:DA:2533:A:H2'	36:DA:2534:A:O4'	2.11	0.50
36:DA:2580:U:H3'	36:DA:2581:G:N2	2.25	0.50
36:DA:2596:U:H2'	36:DA:2597:G:O4'	2.11	0.50
36:DA:2762:G:H2'	36:DA:2763:G:C5'	2.40	0.50
36:DA:2875:C:C4'	52:DT:5:ALA:HB3	2.40	0.50
42:DG:6:ALA:O	42:DG:7:LEU:C	2.55	0.50
42:DG:104:GLU:C	42:DG:106:LEU:N	2.69	0.50
46:DN:18:ALA:CB	46:DN:26:LEU:HD22	2.41	0.50
51:DS:89:ARG:HG3	51:DS:92:TYR:HB3	1.93	0.50
52:DT:23:ARG:CG	52:DT:120:ARG:NH1	2.74	0.50
54:DV:18:LEU:HD22	54:DV:96:ILE:HG12	1.92	0.50
54:DV:37:VAL:O	54:DV:37:VAL:HG23	2.12	0.50
55:DW:12:ILE:CD1	55:DW:42:ARG:HH12	2.24	0.50
55:DW:51:LEU:O	55:DW:54:ALA:HB3	2.11	0.50
58:DZ:53:ILE:CG2	58:DZ:71:VAL:HB	2.40	0.50
1:AA:92:C:H2'	1:AA:93:G:C8	2.46	0.50
1:AA:823:G:H21	8:AH:1:MET:HE3	1.77	0.50
1:AA:824:C:O2'	1:AA:825:G:H5'	2.12	0.50
1:AA:928:G:H2'	1:AA:929:G:H5'	1.93	0.50
2:AB:77:ALA:HA	2:AB:80:ILE:CD1	2.36	0.50
2:AB:219:VAL:HA	2:AB:222:ILE:HG12	1.93	0.50
3:AC:13:GLY:O	3:AC:14:ILE:HB	2.11	0.50
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.37	0.50
8:AH:36:LEU:C	8:AH:38:ILE:N	2.70	0.50
25:AZ:99:MET:H	25:AZ:241:ARG:NH2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:26:LYS:HB2	34:B8:44:LYS:HG3	1.93	0.50
36:BA:445:C:C2'	36:BA:446:G:O4'	2.60	0.50
36:BA:471:A:C2'	36:BA:472:A:C5'	2.89	0.50
36:BA:517:C:H6	36:BA:517:C:O5'	1.95	0.50
36:BA:778:G:C6	36:BA:779:U:C4	3.00	0.50
36:BA:1173:G:H5'	36:BA:1174:A:O5'	2.11	0.50
36:BA:1503:U:N1	36:BA:1504:C:H5	2.10	0.50
36:BA:1668:A:N7	36:BA:1674:G:C6	2.79	0.50
36:BA:1856:G:H2'	36:BA:1857:G:H5'	1.93	0.50
36:BA:1982:C:H6	36:BA:1982:C:O5'	1.95	0.50
36:BA:2030:A:H5''	36:BA:2031:A:OP1	2.11	0.50
36:BA:2153:G:N2	36:BA:2154:G:H1'	2.26	0.50
36:BA:2334:G:H21	51:BS:18:ILE:CG2	2.25	0.50
36:BA:2687:U:C4	36:BA:2688:U:C5	2.99	0.50
36:BA:2762:G:H2'	36:BA:2763:G:C5'	2.39	0.50
40:BE:1:MET:HB3	40:BE:200:GLU:OE2	2.12	0.50
40:BE:192:ASN:HD22	40:BE:193:GLY:N	2.09	0.50
41:BF:32:LEU:HD23	41:BF:32:LEU:C	2.36	0.50
42:BG:16:ARG:N	42:BG:17:PRO:HD2	2.26	0.50
43:BH:12:PRO:N	43:BH:48:GLY:HA2	2.26	0.50
43:BH:137:ASP:HB2	43:BH:140:LYS:HE3	1.93	0.50
49:BQ:34:LEU:HD12	49:BQ:130:LYS:C	2.37	0.50
52:BT:64:ARG:CB	52:BT:73:GLU:HG2	2.40	0.50
52:BT:77:PRO:O	52:BT:78:LEU:CB	2.58	0.50
53:BU:108:GLU:HG3	54:BV:44:LYS:HG2	1.92	0.50
56:BX:57:LEU:N	56:BX:57:LEU:CD1	2.75	0.50
57:BY:19:LYS:HB2	57:BY:20:TYR:CD1	2.46	0.50
1:CA:105:G:C6	1:CA:106:C:N4	2.80	0.50
1:CA:424:G:H2'	1:CA:425:G:H8	1.76	0.50
1:CA:779:C:O3'	11:CK:122:LYS:HA	2.10	0.50
1:CA:954:G:H4'	13:CM:120:LYS:HD3	1.92	0.50
1:CA:1381:U:H5	1:CA:1382:C:C4	2.30	0.50
1:CA:1463:C:C5'	52:DT:115:ARG:HH21	2.24	0.50
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.23	0.50
2:CB:54:THR:HG22	2:CB:58:ILE:CD1	2.38	0.50
2:CB:185:ILE:O	2:CB:186:ALA:HB2	2.12	0.50
2:CB:235:SER:O	2:CB:237:ALA:N	2.45	0.50
3:CC:165:THR:O	3:CC:165:THR:CG2	2.59	0.50
3:CC:180:ALA:O	3:CC:203:PHE:HE1	1.95	0.50
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.11	0.50
9:CI:48:GLU:O	9:CI:49:PRO:C	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:PHE:HA	14:CN:59:ALA:HB2	1.92	0.50
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.27	0.50
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.52	0.50
16:CP:71:ARG:O	16:CP:74:LEU:HB2	2.11	0.50
17:CQ:21:VAL:O	17:CQ:41:LYS:HA	2.11	0.50
19:CS:31:ILE:CG2	19:CS:49:ILE:HA	2.42	0.50
22:CV:28:G:O2'	22:CV:29:G:H5'	2.11	0.50
22:CW:64:A:H2'	22:CW:65:G:H8	1.77	0.50
25:CZ:112:PRO:HG3	25:CZ:153:GLU:OE1	2.11	0.50
25:CZ:221:PHE:CE1	25:CZ:247:VAL:HG22	2.47	0.50
26:D0:43:THR:HG21	36:DA:2336:A:H61	1.76	0.50
27:D1:7:ILE:CD1	27:D1:70:VAL:HG23	2.41	0.50
27:D1:29:GLY:HA3	36:DA:2396:G:O2'	2.11	0.50
28:D2:10:LEU:HD22	28:D2:14:ARG:HD2	1.94	0.50
31:D5:36:CYS:C	31:D5:38:ALA:H	2.19	0.50
34:D8:8:LYS:HA	34:D8:11:LYS:CD	2.41	0.50
36:DA:31:C:H5''	36:DA:1239:G:OP1	2.10	0.50
36:DA:455:C:N3	36:DA:472:A:H2'	2.27	0.50
36:DA:664:C:H4'	36:DA:941:A:OP1	2.10	0.50
36:DA:738:G:H2'	36:DA:739:G:H5'	1.93	0.50
36:DA:863:A:H2'	36:DA:864:G:H8	1.74	0.50
36:DA:1087:G:C8	36:DA:1088:A:H4'	2.47	0.50
36:DA:1299:G:H2'	36:DA:1639:U:O4	2.11	0.50
36:DA:1404:C:H2'	36:DA:1404:C:O2	2.09	0.50
36:DA:1632:A:N6	36:DA:1633:G:N1	2.60	0.50
36:DA:1720:U:H2'	36:DA:1721:G:C5'	2.40	0.50
36:DA:2007:C:H5'	36:DA:2824:C:O4'	2.11	0.50
36:DA:2137:C:H2'	36:DA:2138:C:H6	1.77	0.50
36:DA:2469:A:C5	36:DA:2470:G:H1'	2.46	0.50
36:DA:2524:G:H5'	36:DA:2524:G:C8	2.47	0.50
36:DA:2530:A:C3'	36:DA:2531:A:H5''	2.41	0.50
36:DA:2657:A:O2'	43:DH:160:LYS:NZ	2.38	0.50
36:DA:2681:C:C5	36:DA:2725:A:N6	2.79	0.50
37:DB:79:C:C2'	37:DB:80:U:H5'	2.41	0.50
38:DC:23:ASP:O	38:DC:24:GLU:C	2.53	0.50
38:DC:151:GLU:HA	38:DC:154:ARG:CD	2.41	0.50
41:DF:70:THR:CG2	41:DF:72:ARG:HG2	2.42	0.50
41:DF:118:ALA:HB1	41:DF:123:LEU:HD22	1.92	0.50
42:DG:174:GLU:HA	42:DG:180:PHE:HE1	1.75	0.50
43:DH:31:GLY:O	43:DH:79:VAL:HG12	2.12	0.50
43:DH:130:ARG:HB3	43:DH:130:ARG:CZ	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:17:UNK:O	45:DK:18:UNK:CB	2.59	0.50
45:DK:99:UNK:N	45:DK:135:UNK:CB	2.75	0.50
46:DN:134:ARG:H	46:DN:135:PRO:HD3	1.76	0.50
48:DP:23:PRO:HB2	48:DP:33:ARG:HD2	1.92	0.50
50:DR:97:VAL:HA	50:DR:113:LEU:O	2.11	0.50
51:DS:74:ALA:C	51:DS:76:LYS:N	2.69	0.50
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.41	0.50
51:DS:96:GLY:C	51:DS:98:VAL:N	2.70	0.50
52:DT:101:PHE:C	52:DT:103:ARG:N	2.69	0.50
53:DU:94:ASN:ND2	53:DU:95:LEU:HG	2.26	0.50
58:DZ:70:LEU:HD23	58:DZ:70:LEU:N	2.26	0.50
58:DZ:101:PRO:C	58:DZ:102:LEU:HD23	2.36	0.50
1:AA:187:C:O2	20:AT:104:LEU:HD23	2.11	0.50
1:AA:500:G:O2'	1:AA:548:G:N2	2.45	0.50
1:AA:663:A:H5'	1:AA:836:G:OP1	2.12	0.50
1:AA:1170:A:C2'	1:AA:1171:G:H5'	2.40	0.50
1:AA:1447:A:N3	1:AA:1447:A:H2'	2.27	0.50
2:AB:165:VAL:O	2:AB:167:PRO:CD	2.59	0.50
2:AB:185:ILE:O	2:AB:186:ALA:HB2	2.11	0.50
2:AB:224:GLN:O	2:AB:227:GLY:N	2.44	0.50
2:AB:229:VAL:O	2:AB:230:VAL:HG13	2.10	0.50
4:AD:34:GLU:O	4:AD:35:ARG:HB2	2.12	0.50
4:AD:159:ARG:HG3	4:AD:159:ARG:HH11	1.77	0.50
5:AE:11:ILE:HD12	5:AE:31:LEU:HD11	1.92	0.50
7:AG:13:GLN:CD	7:AG:14:PRO:HD2	2.36	0.50
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.25	0.50
10:AJ:21:GLN:C	10:AJ:23:ILE:H	2.19	0.50
10:AJ:98:ILE:O	10:AJ:99:LYS:HD3	2.11	0.50
11:AK:54:ARG:O	11:AK:57:THR:HG22	2.11	0.50
12:AL:60:LEU:C	12:AL:62:SER:H	2.17	0.50
13:AM:86:CYS:O	13:AM:87:TYR:C	2.50	0.50
19:AS:9:VAL:HG12	19:AS:39:THR:HB	1.93	0.50
22:AW:55:U:H3'	22:AW:55:U:O2	2.11	0.50
25:AZ:221:PHE:HA	25:AZ:244:ARG:O	2.12	0.50
25:AZ:310:ILE:HG21	25:AZ:379:ALA:HB1	1.93	0.50
27:B1:8:SER:HB2	27:B1:10:LYS:HG3	1.94	0.50
28:B2:57:ILE:HG22	28:B2:61:LEU:CG	2.42	0.50
31:B5:13:LYS:NZ	36:BA:516:C:P	2.85	0.50
33:B7:39:ARG:HD3	36:BA:458:G:O2'	2.11	0.50
34:B8:25:MET:HE2	48:BP:64:LYS:HD3	1.94	0.50
34:B8:43:GLN:C	34:B8:44:LYS:HD2	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:B9:19:ARG:C	35:B9:21:GLY:N	2.70	0.50
36:BA:183:C:C5'	36:BA:433:C:H4'	2.41	0.50
36:BA:216:A:C2'	36:BA:217:G:H5'	2.41	0.50
36:BA:327:G:C2	36:BA:336:C:N3	2.80	0.50
36:BA:584:C:H2'	36:BA:585:G:C5'	2.38	0.50
36:BA:632:A:O2'	36:BA:633:A:H5'	2.11	0.50
36:BA:654(H):G:H2'	36:BA:654(I):C:H5'	1.94	0.50
36:BA:904:C:H6	36:BA:904:C:OP2	1.94	0.50
36:BA:1019:U:HO2'	36:BA:1021:A:H2	1.57	0.50
36:BA:1040:C:C4	36:BA:1041:C:C5	2.99	0.50
36:BA:1540:U:H3'	36:BA:1541:G:H3'	1.93	0.50
36:BA:1567:A:OP2	39:BD:84:TYR:OH	2.25	0.50
36:BA:1697:G:H5''	36:BA:1979:C:OP1	2.12	0.50
36:BA:1747(A):G:H3'	36:BA:1748:G:H5''	1.93	0.50
36:BA:1902:C:H4'	39:BD:244:ARG:CB	2.42	0.50
36:BA:2138:C:H2'	36:BA:2139:C:C6	2.46	0.50
36:BA:2148:G:O2'	36:BA:2149:G:H5'	2.11	0.50
36:BA:2247:A:H2'	36:BA:2248:C:O4'	2.11	0.50
36:BA:2601:C:H2'	36:BA:2603:G:H8	1.76	0.50
36:BA:2758:A:HO2'	36:BA:2759:G:H8	1.59	0.50
39:BD:147:LEU:HD21	39:BD:183:ARG:CZ	2.41	0.50
39:BD:214:TRP:C	39:BD:216:GLY:N	2.64	0.50
40:BE:11:MET:HB2	40:BE:23:VAL:O	2.12	0.50
40:BE:11:MET:HB3	40:BE:24:THR:HA	1.93	0.50
41:BF:9:ILE:HG23	41:BF:13:SER:O	2.10	0.50
41:BF:118:ALA:CB	41:BF:123:LEU:HD22	2.42	0.50
41:BF:188:ARG:HB3	48:BP:7:ARG:HD3	1.93	0.50
43:BH:68:THR:HA	43:BH:71:LEU:CB	2.40	0.50
49:BQ:27:VAL:HG12	49:BQ:29:PHE:N	2.17	0.50
57:BY:86:ARG:O	57:BY:92:ASN:HA	2.12	0.50
58:BZ:41:LEU:HD23	58:BZ:42:VAL:N	2.25	0.50
1:CA:361:G:O2'	1:CA:362:G:H5'	2.11	0.50
1:CA:403:C:O2'	1:CA:404:U:H5'	2.12	0.50
1:CA:428:G:H4'	1:CA:429:U:O5'	2.11	0.50
1:CA:762:C:H2'	1:CA:763:G:H8	1.75	0.50
1:CA:1298:C:OP2	7:CG:114:ARG:NH2	2.45	0.50
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.73	0.50
1:CA:1504:G:H1'	1:CA:1505:G:OP2	2.12	0.50
2:CB:17:PHE:CD2	2:CB:17:PHE:C	2.88	0.50
4:CD:52:SER:C	4:CD:54:TYR:N	2.67	0.50
4:CD:105:VAL:HG21	4:CD:126:ILE:HG12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:20:GLN:O	5:CE:22:GLY:N	2.45	0.50
8:CH:64:LYS:CD	8:CH:79:VAL:HG21	2.37	0.50
8:CH:120:THR:C	8:CH:122:ARG:N	2.69	0.50
13:CM:49:THR:C	13:CM:51:ALA:N	2.67	0.50
18:CR:52:PRO:O	18:CR:53:ARG:C	2.52	0.50
19:CS:35:SER:C	19:CS:37:ARG:H	2.19	0.50
24:CY:48:C:H4'	24:CY:49:G:H5''	1.93	0.50
25:CZ:17:ILE:HD13	25:CZ:102:ALA:HB1	1.92	0.50
25:CZ:27:LEU:HD12	25:CZ:27:LEU:O	2.11	0.50
25:CZ:99:MET:N	25:CZ:241:ARG:HH21	2.09	0.50
25:CZ:316:PHE:HA	25:CZ:404:LEU:HD23	1.93	0.50
27:D1:53:VAL:C	27:D1:55:GLY:N	2.68	0.50
31:D5:31:VAL:HG11	36:DA:2886:G:N2	2.22	0.50
36:DA:107:C:H1'	36:DA:294:A:N3	2.26	0.50
36:DA:195:A:N6	36:DA:198:C:OP2	2.44	0.50
36:DA:664:C:O4'	36:DA:940:G:H5''	2.12	0.50
36:DA:961:C:C5	36:DA:2031:A:C2	3.00	0.50
36:DA:1351:C:N3	36:DA:1381:G:C2	2.79	0.50
36:DA:1425:G:H2'	36:DA:1426:G:O4'	2.11	0.50
36:DA:1509(B):A:O2'	36:DA:1510:G:H5'	2.11	0.50
36:DA:1827:C:C2'	36:DA:1828:G:H5'	2.41	0.50
36:DA:2312:U:C2'	36:DA:2313:C:C5'	2.88	0.50
38:DC:70:LYS:HD2	38:DC:177:LYS:HZ3	1.75	0.50
39:DD:226:MET:HB3	39:DD:230:ASP:CB	2.38	0.50
39:DD:232:PRO:HG2	39:DD:248:SER:O	2.12	0.50
41:DF:127:GLU:HB2	41:DF:196:LEU:CD1	2.41	0.50
43:DH:85:LYS:HG3	43:DH:141:VAL:HG12	1.94	0.50
52:DT:115:ARG:HG3	52:DT:115:ARG:HH11	1.76	0.50
52:DT:121:ILE:O	52:DT:124:ASP:N	2.41	0.50
55:DW:4:LYS:HA	55:DW:106:ILE:HG22	1.93	0.50
1:AA:106:C:O2	1:AA:379:C:H4'	2.10	0.50
1:AA:175:C:H4'	20:AT:25:ARG:NH1	2.27	0.50
1:AA:438:G:H5'	4:AD:123:HIS:ND1	2.13	0.50
1:AA:508:C:O2'	1:AA:509:A:P	2.69	0.50
1:AA:734:G:O2'	1:AA:735:C:C5'	2.60	0.50
1:AA:797:C:OP1	11:AK:124:LYS:CE	2.57	0.50
1:AA:966:G:O2'	1:AA:967:C:O5'	2.30	0.50
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.11	0.50
1:AA:1217:C:OP1	14:AN:9:LYS:HE3	2.12	0.50
1:AA:1221:G:P	19:AS:36:ARG:HD3	2.51	0.50
2:AB:51:LEU:O	2:AB:52:GLU:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:127:ILE:HG23	2:AB:135:GLN:NE2	2.27	0.50
2:AB:204:ASN:HD21	2:AB:206:ASP:N	2.10	0.50
3:AC:18:TRP:HE1	14:AN:55:GLY:H	1.60	0.50
4:AD:92:VAL:HG12	4:AD:96:LEU:HD13	1.93	0.50
4:AD:100:ARG:HG3	4:AD:100:ARG:NH1	2.26	0.50
4:AD:104:VAL:O	4:AD:105:VAL:C	2.55	0.50
5:AE:107:ARG:HG3	5:AE:111:GLU:CD	2.37	0.50
6:AF:97:PHE:HD2	18:AR:31:LEU:HD21	1.77	0.50
8:AH:89:PRO:HA	8:AH:92:ARG:CD	2.41	0.50
9:AI:118:LYS:C	9:AI:120:ARG:H	2.20	0.50
11:AK:123:LYS:HA	11:AK:126:ARG:HB3	1.92	0.50
12:AL:86:ARG:HG2	12:AL:87:GLY:N	2.26	0.50
13:AM:118:ALA:HB3	22:AV:29:G:C5'	2.42	0.50
22:AW:53:G:N2	22:AW:54:U:H3	2.10	0.50
24:AY:56:C:H1'	36:BA:1067:A:H1'	1.94	0.50
25:AZ:145:GLU:O	25:AZ:149:LEU:N	2.42	0.50
25:AZ:202:LEU:C	25:AZ:204:ASP:H	2.19	0.50
25:AZ:305:ALA:HB1	25:AZ:309:SER:HB3	1.93	0.50
28:B2:41:ILE:HG13	28:B2:43:GLN:H	1.77	0.50
36:BA:37:C:O2	36:BA:444:C:C2	2.64	0.50
36:BA:272:G:H1	36:BA:404:C:H42	1.57	0.50
36:BA:391:G:H2'	36:BA:392:C:H5'	1.91	0.50
36:BA:635:C:H1'	36:BA:639:U:H5''	1.93	0.50
36:BA:966:G:H2'	36:BA:967:C:H6	1.75	0.50
36:BA:1171:G:N7	36:BA:1173:G:H1'	2.27	0.50
36:BA:1202:C:O5'	36:BA:1202:C:H6	1.95	0.50
36:BA:1652:A:C6	36:BA:1653:G:C2	3.00	0.50
36:BA:1741:A:H3'	36:BA:1742:G:H8	1.77	0.50
36:BA:1861:G:O2'	36:BA:1862:G:H5'	2.11	0.50
36:BA:2036:C:H5'	36:BA:2036:C:C6	2.39	0.50
36:BA:2152:G:C2	36:BA:2153:G:C8	2.99	0.50
36:BA:2199:A:OP2	36:BA:2200:C:H5	1.94	0.50
36:BA:2599:G:H5''	36:BA:2599:G:H8	1.76	0.50
39:BD:172:TYR:CD1	39:BD:186:HIS:HA	2.46	0.50
40:BE:116:VAL:HG21	40:BE:122:PHE:CE2	2.46	0.50
46:BN:31:ALA:HA	46:BN:34:LEU:HB2	1.92	0.50
46:BN:83:LYS:CG	46:BN:84:LYS:N	2.72	0.50
46:BN:133:GLN:CG	46:BN:134:ARG:H	2.18	0.50
48:BP:107:LYS:C	48:BP:109:GLY:N	2.68	0.50
51:BS:98:VAL:CG1	51:BS:100:ALA:HB2	2.41	0.50
52:BT:22:PHE:HA	52:BT:90:GLN:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:28:VAL:HG13	52:BT:45:PHE:C	2.36	0.50
52:BT:70:VAL:CG1	52:BT:71:GLY:N	2.75	0.50
52:BT:89:VAL:HB	52:BT:91:ARG:NE	2.27	0.50
53:BU:70:ARG:C	53:BU:72:HIS:H	2.18	0.50
54:BV:49:THR:CB	54:BV:50:PRO:CD	2.88	0.50
58:BZ:69:THR:CG2	58:BZ:90:VAL:HA	2.40	0.50
1:CA:38:G:H22	1:CA:397:A:C5'	2.25	0.50
1:CA:1003:G:N2	1:CA:1038:C:C2	2.80	0.50
1:CA:1041:A:H2'	1:CA:1042:G:H8	1.71	0.50
1:CA:1433:A:H2'	1:CA:1434:A:H8	1.76	0.50
2:CB:28:PHE:O	2:CB:28:PHE:CD1	2.65	0.50
2:CB:60:ASP:CB	2:CB:64:ARG:HH21	2.25	0.50
2:CB:114:ARG:NH1	2:CB:118:LEU:HD21	2.26	0.50
2:CB:127:ILE:C	2:CB:129:GLU:N	2.67	0.50
2:CB:164:VAL:HG12	2:CB:165:VAL:H	1.75	0.50
3:CC:60:ALA:H	3:CC:63:ASN:ND2	2.09	0.50
4:CD:65:ARG:HD2	4:CD:72:GLU:CA	2.42	0.50
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.23	0.50
10:CJ:4:ILE:O	10:CJ:74:ILE:CG1	2.60	0.50
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.77	0.50
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.12	0.50
14:CN:7:ILE:HG13	14:CN:8:GLU:H	1.75	0.50
14:CN:55:GLY:O	14:CN:56:VAL:C	2.55	0.50
16:CP:58:TYR:O	16:CP:62:VAL:HG22	2.12	0.50
25:CZ:27:LEU:HD23	25:CZ:105:VAL:HG22	1.94	0.50
28:D2:35:LEU:C	28:D2:35:LEU:CD1	2.77	0.50
29:D3:42:ALA:O	29:D3:44:ARG:N	2.45	0.50
32:D6:19:ARG:NH1	36:DA:2400:G:O2'	2.44	0.50
32:D6:38:LYS:HA	32:D6:48:VAL:HA	1.93	0.50
34:D8:49:VAL:HG12	34:D8:50:LEU:H	1.76	0.50
36:DA:324:A:H2'	36:DA:325:G:O4'	2.12	0.50
36:DA:379:G:C6	36:DA:396:G:O6	2.65	0.50
36:DA:860:U:O2	36:DA:860:U:O4'	2.28	0.50
36:DA:1503:U:N1	36:DA:1504:C:H5	2.10	0.50
36:DA:1781:C:O2	36:DA:1781:C:O4'	2.30	0.50
36:DA:2030:A:H5''	36:DA:2031:A:OP1	2.12	0.50
36:DA:2317:C:H3'	36:DA:2318:G:H21	1.76	0.50
36:DA:2419:U:H2'	36:DA:2420:C:H6	1.76	0.50
37:DB:74:U:H2'	37:DB:75:G:H1'	1.94	0.50
39:DD:37:LEU:O	39:DD:38:LYS:C	2.55	0.50
39:DD:177:LEU:HD12	39:DD:181:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:270:ILE:C	39:DD:271:ILE:HG13	2.36	0.50
41:DF:7:TYR:HD2	41:DF:16:GLY:N	2.10	0.50
41:DF:170:LEU:HB3	41:DF:173:VAL:CG2	2.42	0.50
42:DG:56:ALA:HB1	42:DG:153:ARG:NH2	2.27	0.50
45:DK:87:UNK:O	45:DK:88:UNK:CB	2.59	0.50
47:DO:79:PHE:CD2	52:DT:72:VAL:HG13	2.47	0.50
48:DP:86:LYS:HB2	48:DP:117:GLU:O	2.12	0.50
49:DQ:18:LYS:HB3	49:DQ:98:LYS:HZ1	1.75	0.50
49:DQ:67:ARG:O	49:DQ:101:ARG:NH2	2.45	0.50
50:DR:14:SER:HA	50:DR:17:ARG:CZ	2.42	0.50
52:DT:89:VAL:HG12	52:DT:91:ARG:CG	2.40	0.50
53:DU:55:ARG:HA	53:DU:58:ARG:CG	2.41	0.50
57:DY:90:LEU:N	57:DY:90:LEU:HD23	2.27	0.50
58:DZ:98:MET:O	58:DZ:126:VAL:HG22	2.11	0.50
1:AA:47:C:O2'	1:AA:48:C:O5'	2.26	0.50
1:AA:276:G:O2'	17:AQ:68:ARG:NH1	2.45	0.50
1:AA:427:U:OP1	4:AD:13:ARG:NH2	2.44	0.50
1:AA:946:A:C6	1:AA:947:G:O6	2.64	0.50
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	2.10	0.50
1:AA:1126:U:OP2	1:AA:1281:U:O2	2.29	0.50
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.11	0.50
4:AD:21:LEU:HD11	4:AD:66:ARG:O	2.12	0.50
5:AE:32:VAL:O	5:AE:43:LEU:CD1	2.60	0.50
5:AE:71:LEU:O	5:AE:72:GLN:CG	2.59	0.50
8:AH:20:TYR:HE2	8:AH:75:ARG:CD	2.24	0.50
8:AH:50:ARG:HG3	8:AH:50:ARG:HH11	1.77	0.50
11:AK:80:VAL:HG22	11:AK:104:GLN:O	2.12	0.50
13:AM:113:PRO:O	13:AM:115:LYS:HD3	2.12	0.50
14:AN:9:LYS:HG2	14:AN:9:LYS:O	2.11	0.50
16:AP:74:LEU:HD22	16:AP:79:VAL:HG21	1.93	0.50
19:AS:79:THR:O	19:AS:80:TYR:HB3	2.10	0.50
24:AY:52:A:C2	24:AY:63:G:N1	2.80	0.50
24:AY:65:C:H2'	24:AY:66:U:C6	2.46	0.50
25:AZ:19:HIS:CG	25:AZ:115:GLN:HB2	2.46	0.50
25:AZ:191:GLY:HA3	25:AZ:197:ASP:CB	2.28	0.50
26:B0:67:VAL:HG13	26:B0:81:VAL:HG22	1.93	0.50
27:B1:26:ARG:HG3	27:B1:27:GLU:OE1	2.12	0.50
28:B2:5:GLU:O	28:B2:9:GLN:NE2	2.45	0.50
36:BA:251:A:H2'	36:BA:252:G:C4'	2.41	0.50
36:BA:263:C:O2'	36:BA:264:C:H5'	2.11	0.50
36:BA:862:G:N3	36:BA:863:A:Cl'	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:983:A:H2'	36:BA:984:A:O4'	2.12	0.50
36:BA:1087:G:C8	36:BA:1088:A:H4'	2.47	0.50
36:BA:1091:G:H2'	36:BA:1092:C:C6	2.46	0.50
36:BA:1151:G:H2'	36:BA:1152:C:O4'	2.11	0.50
36:BA:1298:C:H1'	36:BA:1302:A:N3	2.27	0.50
36:BA:1337:G:H2'	36:BA:1338:G:H8	1.77	0.50
36:BA:1404:C:H2'	36:BA:1404:C:O2	2.12	0.50
36:BA:1520:G:C2'	36:BA:1523:U:H5'	2.41	0.50
36:BA:1747(A):G:C2'	36:BA:1748:G:H5''	2.41	0.50
36:BA:1810:A:H2'	36:BA:1811:G:O4'	2.11	0.50
36:BA:1968:G:H2'	36:BA:1969:A:H5''	1.94	0.50
36:BA:2303:G:O2'	42:BG:132:ASN:HB3	2.12	0.50
36:BA:2563:U:H2'	36:BA:2565:A:OP2	2.11	0.50
38:BC:81:GLU:O	38:BC:85:GLU:HB3	2.12	0.50
38:BC:99:ILE:CG2	38:BC:102:LYS:HZ3	2.18	0.50
39:BD:30:GLU:CB	39:BD:35:LYS:HE3	2.39	0.50
39:BD:267:SER:C	39:BD:269:PHE:H	2.18	0.50
40:BE:62:PRO:C	40:BE:64:LYS:N	2.68	0.50
42:BG:52:ILE:HG12	42:BG:53:LEU:N	2.27	0.50
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HA	1.77	0.50
50:BR:10:LEU:HD22	50:BR:17:ARG:HE	1.77	0.50
55:BW:62:HIS:O	55:BW:63:ASP:C	2.54	0.50
57:BY:33:LYS:C	57:BY:35:TYR:H	2.19	0.50
1:CA:198:G:O2'	1:CA:199:G:H8	1.95	0.50
1:CA:235:C:OP1	17:CQ:70:ARG:HD3	2.12	0.50
1:CA:530:G:O2'	24:CY:35:G:C4'	2.59	0.50
1:CA:553:A:H2'	1:CA:554:C:H6	1.76	0.50
1:CA:598:U:H2'	1:CA:599:C:C6	2.47	0.50
1:CA:681:C:O2'	1:CA:682:G:H5'	2.11	0.50
1:CA:1003:G:O2'	1:CA:1004:A:H4'	2.11	0.50
1:CA:1057:G:H3'	1:CA:1058:G:H8	1.77	0.50
1:CA:1314:C:H2'	1:CA:1315:U:C5	2.47	0.50
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.39	0.50
3:CC:103:VAL:HG12	3:CC:104:GLN:N	2.27	0.50
4:CD:14:ARG:HG3	4:CD:15:GLU:OE1	2.12	0.50
5:CE:30:ALA:O	5:CE:45:PHE:HA	2.12	0.50
6:CF:62:TRP:NE1	18:CR:35:ARG:CZ	2.75	0.50
7:CG:94:ARG:O	7:CG:95:ARG:C	2.54	0.50
9:CI:20:ARG:O	9:CI:60:ASP:HB2	2.11	0.50
13:CM:39:ILE:HG22	13:CM:40:ASN:N	2.27	0.50
18:CR:55:ARG:HG3	18:CR:55:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:58:A:O2'	22:CV:59:U:H2'	2.12	0.50
22:CW:7:A:H5''	22:CW:8:U:OP2	2.11	0.50
28:D2:7:ARG:HG2	28:D2:7:ARG:NH1	2.26	0.50
30:D4:22:ILE:HG12	42:DG:108:ASN:HD22	1.75	0.50
31:D5:13:LYS:HZ2	36:DA:516:C:P	2.35	0.50
36:DA:204:A:OP1	36:DA:204:A:H8	1.95	0.50
36:DA:303:U:H2'	36:DA:304:G:C8	2.46	0.50
36:DA:393:C:H2'	36:DA:394:A:C8	2.46	0.50
36:DA:452:G:OP1	41:DF:57:VAL:HG13	2.12	0.50
36:DA:471:A:C2'	36:DA:472:A:C5'	2.90	0.50
36:DA:712:G:H1	36:DA:719:C:H42	1.59	0.50
36:DA:864:G:N2	36:DA:913:U:O2	2.45	0.50
36:DA:953:A:OP2	49:DQ:16:ARG:NH2	2.44	0.50
36:DA:955:C:O2'	36:DA:956:G:H5'	2.11	0.50
36:DA:1087:G:H8	36:DA:1088:A:H4'	1.76	0.50
36:DA:1400:G:C6	36:DA:1401:G:C6	3.00	0.50
36:DA:1810:A:H2'	36:DA:1811:G:O4'	2.12	0.50
36:DA:1924:C:O2'	36:DA:1925:C:H5'	2.11	0.50
36:DA:2037:G:H2'	36:DA:2038:G:H8	1.75	0.50
36:DA:2222:G:C2	36:DA:2223:G:C8	2.99	0.50
36:DA:2460:U:H2'	36:DA:2461:C:H6	1.76	0.50
36:DA:2563:U:H2'	36:DA:2565:A:OP2	2.11	0.50
36:DA:2601:C:H2'	36:DA:2603:G:H8	1.77	0.50
38:DC:75:LEU:HD12	38:DC:75:LEU:C	2.37	0.50
42:DG:130:ASN:OD1	42:DG:160:VAL:HG13	2.12	0.50
46:DN:116:LEU:O	46:DN:119:ARG:HB2	2.11	0.50
48:DP:14:LYS:O	48:DP:15:ARG:HB2	2.11	0.50
49:DQ:64:ILE:HG22	49:DQ:65:PHE:N	2.27	0.50
50:DR:52:ILE:HD12	50:DR:79:LEU:HD21	1.92	0.50
51:DS:22:GLY:O	51:DS:23:ARG:O	2.30	0.50
51:DS:29:PHE:HD2	51:DS:29:PHE:C	2.20	0.50
52:DT:61:PHE:CZ	52:DT:76:PHE:HD1	2.30	0.50
52:DT:85:LYS:HB3	52:DT:85:LYS:HZ3	1.75	0.50
53:DU:14:HIS:C	53:DU:16:LYS:H	2.20	0.50
53:DU:33:ARG:O	53:DU:36:ARG:HB3	2.12	0.50
1:AA:267:C:H2'	1:AA:268:C:C6	2.39	0.50
1:AA:386:C:O2'	1:AA:387:U:H5'	2.11	0.50
1:AA:507:C:P	1:AA:508:C:H3'	2.52	0.50
1:AA:584:G:OP2	17:AQ:87:LYS:NZ	2.45	0.50
1:AA:1186:G:N2	1:AA:1187:G:H1'	2.27	0.50
1:AA:1345:U:C6	1:AA:1377:A:C2	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:19:HIS:NE2	2:AB:206:ASP:HB2	2.26	0.50
3:AC:142:MET:SD	3:AC:148:GLY:CA	3.00	0.50
4:AD:50:ARG:O	4:AD:51:PRO:C	2.52	0.50
4:AD:58:LEU:O	4:AD:62:GLN:HG2	2.11	0.50
4:AD:170:VAL:CG1	4:AD:171:GLY:N	2.74	0.50
5:AE:84:PHE:C	5:AE:86:ALA:H	2.20	0.50
7:AG:64:GLN:HE21	7:AG:68:ASN:HD22	1.58	0.50
11:AK:22:HIS:HB3	11:AK:29:ILE:CG2	2.27	0.50
12:AL:71:PRO:O	12:AL:102:ARG:NH1	2.45	0.50
22:AV:9:A:C4	22:AV:46:G:N2	2.79	0.50
22:AV:46:G:H5'	22:AV:47:U:OP2	2.11	0.50
25:AZ:306:LYS:O	25:AZ:308:GLY:N	2.45	0.50
25:AZ:356:PRO:C	25:AZ:359:VAL:HG23	2.31	0.50
25:AZ:368:VAL:HG12	25:AZ:369:THR:N	2.20	0.50
29:B3:42:ALA:O	29:B3:44:ARG:N	2.45	0.50
34:B8:18:ALA:C	34:B8:20:GLY:H	2.19	0.50
36:BA:811:U:O2'	36:BA:812:C:H5''	2.12	0.50
36:BA:860:U:O2	36:BA:860:U:O4'	2.28	0.50
36:BA:953:A:OP2	49:BQ:16:ARG:NH2	2.44	0.50
36:BA:1012:U:C4	46:BN:28:THR:HG21	2.47	0.50
36:BA:1132:A:C8	36:BA:1133:U:H5	2.30	0.50
36:BA:1352:U:O2'	36:BA:1353:A:H5'	2.12	0.50
36:BA:1491:G:C6	36:BA:1500:G:C2	3.00	0.50
36:BA:1567:A:OP1	39:BD:60:ARG:NH2	2.43	0.50
36:BA:1639:U:O2'	36:BA:1640:C:H5''	2.12	0.50
36:BA:1668:A:N3	36:BA:1670:C:N3	2.59	0.50
36:BA:1722:A:H2	36:BA:1740:G:H2'	1.77	0.50
36:BA:1772:G:N2	36:BA:1774:C:C5'	2.75	0.50
36:BA:1827:C:H5''	36:BA:1971:A:O3'	2.12	0.50
36:BA:2281:C:H2'	36:BA:2282:G:C8	2.47	0.50
36:BA:2329:G:H2'	36:BA:2330:G:C8	2.46	0.50
36:BA:2523:G:C3'	36:BA:2524:G:H5''	2.41	0.50
36:BA:2554:U:C2	36:BA:2555:U:H5	2.30	0.50
36:BA:2674:G:H2'	36:BA:2675:A:O4'	2.12	0.50
39:BD:177:LEU:HD12	39:BD:181:GLU:OE2	2.12	0.50
40:BE:57:LYS:HE2	40:BE:59:VAL:CG1	2.41	0.50
40:BE:167:VAL:HG13	40:BE:170:LEU:CD1	2.28	0.50
40:BE:197:ILE:HD11	40:BE:199:ARG:HH22	1.76	0.50
41:BF:7:TYR:HE1	41:BF:196:LEU:HD11	1.76	0.50
41:BF:175:THR:C	41:BF:176:LEU:HD12	2.37	0.50
42:BG:32:PRO:HA	42:BG:162:THR:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:149:ARG:HD3	43:BH:164:TYR:HD1	1.76	0.50
49:BQ:52:VAL:O	49:BQ:54:MET:N	2.45	0.50
50:BR:3:HIS:O	50:BR:5:LYS:N	2.45	0.50
51:BS:24:LEU:HD13	51:BS:41:ASP:HB2	1.93	0.50
51:BS:88:ASP:O	51:BS:89:ARG:HB3	2.12	0.50
53:BU:3:ARG:NH1	53:BU:5:LYS:HB3	2.27	0.50
53:BU:90:VAL:O	53:BU:91:ASP:C	2.55	0.50
53:BU:101:ARG:O	53:BU:102:GLU:C	2.55	0.50
56:BX:36:LYS:NZ	56:BX:55:ASN:HA	2.27	0.50
57:BY:46:LYS:H	57:BY:62:GLU:CG	2.02	0.50
58:BZ:63:ASP:OD1	58:BZ:65:GLN:NE2	2.45	0.50
1:CA:319:G:H4'	1:CA:1468:A:H4'	1.93	0.50
1:CA:508:C:O2'	1:CA:509:A:P	2.69	0.50
1:CA:544:G:OP2	4:CD:66:ARG:NH2	2.44	0.50
1:CA:632:A:C8	1:CA:633:G:C8	3.00	0.50
1:CA:792:A:O2'	1:CA:793:U:P	2.70	0.50
1:CA:827:U:H5'	1:CA:828:A:OP2	2.12	0.50
1:CA:896:C:O2'	1:CA:897:C:H5'	2.12	0.50
1:CA:1348:U:O2'	1:CA:1349:A:C8	2.57	0.50
1:CA:1442(A):G:H2'	52:DT:122:ASP:OD2	2.11	0.50
2:CB:62:ALA:C	2:CB:64:ARG:H	2.20	0.50
2:CB:77:ALA:HA	2:CB:80:ILE:CD1	2.36	0.50
2:CB:224:GLN:O	2:CB:227:GLY:N	2.45	0.50
2:CB:229:VAL:O	2:CB:230:VAL:HG13	2.12	0.50
3:CC:90:GLU:C	3:CC:93:LYS:HB3	2.37	0.50
4:CD:61:LYS:O	4:CD:64:LEU:N	2.44	0.50
4:CD:62:GLN:HE22	4:CD:65:ARG:HH21	1.58	0.50
4:CD:85:LYS:HD3	4:CD:92:VAL:HG11	1.92	0.50
5:CE:64:ARG:HG3	5:CE:64:ARG:HH11	1.75	0.50
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.66	0.50
8:CH:14:ARG:CB	8:CH:14:ARG:NH1	2.71	0.50
10:CJ:21:GLN:C	10:CJ:23:ILE:H	2.19	0.50
12:CL:60:LEU:C	12:CL:62:SER:H	2.18	0.50
12:CL:70:ILE:HD13	12:CL:77:LEU:HD12	1.93	0.50
17:CQ:60:ILE:O	17:CQ:71:PHE:HD1	1.94	0.50
18:CR:53:ARG:CZ	18:CR:60:ALA:H	2.24	0.50
19:CS:67:VAL:C	19:CS:69:HIS:N	2.69	0.50
20:CT:32:ALA:O	20:CT:36:LEU:HB2	2.12	0.50
22:CW:34:G:H22	23:CX:18:G:N2	2.10	0.50
25:CZ:347:THR:CG2	25:CZ:348:ASP:N	2.74	0.50
27:D1:18:ILE:CG2	27:D1:19:GLN:N	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:30:ARG:C	28:D2:33:MET:HB3	2.36	0.50
31:D5:2:ALA:N	36:DA:747:U:H3	2.10	0.50
31:D5:41:PRO:CG	31:D5:44:THR:OG1	2.48	0.50
36:DA:34:C:H41	36:DA:447:A:H61	1.55	0.50
36:DA:270:A:H2'	36:DA:271:A:O4'	2.12	0.50
36:DA:672:C:C2'	36:DA:673:C:C5'	2.89	0.50
36:DA:809:G:O2'	36:DA:810:U:H5'	2.10	0.50
36:DA:953:A:H2'	36:DA:954:G:C8	2.44	0.50
36:DA:1277:G:C2	36:DA:1294:U:O2	2.65	0.50
36:DA:1477:A:H5'	36:DA:1478:G:OP2	2.11	0.50
36:DA:1485:G:H1'	36:DA:1505:C:N4	2.27	0.50
36:DA:1899:G:N2	36:DA:1903:G:C2	2.79	0.50
38:DC:20:TYR:CD1	38:DC:20:TYR:N	2.80	0.50
38:DC:113:VAL:CG2	38:DC:136:LEU:HD22	2.42	0.50
39:DD:136:ILE:CG2	39:DD:140:THR:OG1	2.59	0.50
41:DF:157:VAL:O	41:DF:158:THR:HB	2.12	0.50
41:DF:162:LEU:H	41:DF:162:LEU:CD1	2.25	0.50
42:DG:27:ASN:O	42:DG:29:TRP:N	2.39	0.50
42:DG:80:PHE:O	42:DG:81:LYS:HB2	2.11	0.50
45:DK:99:UNK:O	45:DK:100:UNK:O	2.30	0.50
46:DN:32:THR:HG22	46:DN:37:LYS:HB3	1.94	0.50
47:DO:106:LEU:O	47:DO:107:ARG:C	2.54	0.50
48:DP:84:ASN:C	48:DP:86:LYS:N	2.53	0.50
51:DS:104:GLY:C	51:DS:106:ARG:H	2.20	0.50
53:DU:112:ARG:O	53:DU:115:ALA:HB3	2.12	0.50
55:DW:59:VAL:HA	55:DW:63:ASP:HA	1.93	0.50
1:AA:54:C:H2'	1:AA:352:C:H42	1.77	0.50
1:AA:113:G:O2'	1:AA:354:G:H5'	2.12	0.50
1:AA:194:C:H2'	1:AA:195:A:C5'	2.38	0.50
1:AA:254:G:H2'	1:AA:255:G:H8	1.77	0.50
1:AA:417:C:O5'	1:AA:417:C:H6	1.94	0.50
1:AA:445:G:H2'	1:AA:446:G:C8	2.47	0.50
1:AA:1129:C:H4'	1:AA:1130:A:C8	2.47	0.50
1:AA:1350:A:O2'	1:AA:1351:U:H5'	2.11	0.50
1:AA:1407:C:O2	1:AA:1407:C:H2'	2.11	0.50
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.46	0.50
2:AB:54:THR:HG22	2:AB:58:ILE:CD1	2.38	0.50
2:AB:61:LEU:HA	2:AB:64:ARG:CZ	2.40	0.50
3:AC:122:GLU:C	3:AC:124:ILE:N	2.69	0.50
4:AD:67:ILE:CG2	4:AD:67:ILE:O	2.60	0.50
4:AD:150:GLU:CD	4:AD:151:LYS:N	2.68	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:72:GLN:O	5:AE:75:THR:HG22	2.12	0.50
8:AH:39:LEU:HB2	8:AH:45:ILE:HD11	1.93	0.50
8:AH:54:ASP:O	8:AH:56:LYS:HG3	2.12	0.50
8:AH:85:ARG:HG3	8:AH:85:ARG:NH1	2.27	0.50
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.27	0.50
12:AL:23:LYS:C	12:AL:24:VAL:HG23	2.37	0.50
13:AM:14:ARG:HG2	13:AM:42:ALA:O	2.12	0.50
13:AM:14:ARG:H	13:AM:44:ARG:HH11	1.60	0.50
15:AO:54:ARG:HD3	15:AO:54:ARG:O	2.11	0.50
15:AO:74:ASP:OD2	15:AO:74:ASP:C	2.53	0.50
17:AQ:48:GLU:OE1	17:AQ:50:LYS:HD3	2.12	0.50
20:AT:93:GLU:C	20:AT:95:ALA:H	2.18	0.50
25:AZ:316:PHE:HA	25:AZ:404:LEU:HD23	1.93	0.50
25:AZ:354:GLN:HE21	25:AZ:371:THR:CB	2.24	0.50
28:B2:4:SER:CA	28:B2:7:ARG:HD2	2.42	0.50
28:B2:5:GLU:O	28:B2:9:GLN:CD	2.55	0.50
32:B6:20:ASN:C	32:B6:21:TYR:CG	2.89	0.50
34:B8:18:ALA:HB2	36:BA:628:G:H5''	1.93	0.50
36:BA:336:C:H4'	57:BY:7:VAL:HG22	1.94	0.50
36:BA:336:C:H5''	57:BY:7:VAL:HG11	1.94	0.50
36:BA:414:C:N3	36:BA:2410:G:N2	2.60	0.50
36:BA:521:G:H2'	36:BA:522:G:C8	2.46	0.50
36:BA:590:A:H2'	36:BA:591:C:C6	2.47	0.50
36:BA:806:C:H2'	36:BA:807:U:H6	1.77	0.50
36:BA:862:G:H3'	36:BA:863:A:C8	2.47	0.50
36:BA:1060:U:H1'	36:BA:1061:U:H5''	1.94	0.50
36:BA:1271:G:C2	36:BA:1617:C:H4'	2.46	0.50
36:BA:1277:G:N1	36:BA:1294:U:C2	2.79	0.50
36:BA:1590:U:C3'	36:BA:1591:G:H5''	2.41	0.50
36:BA:1829:A:O2'	39:BD:15:PHE:CE1	2.53	0.50
36:BA:1924:C:O2'	36:BA:1925:C:H5'	2.11	0.50
36:BA:2110:G:O2'	36:BA:2120:G:OP2	2.29	0.50
36:BA:2174:C:O2'	38:BC:219:GLY:O	2.26	0.50
36:BA:2282:G:C4'	36:BA:2283:C:O5'	2.60	0.50
36:BA:2374:C:H2'	36:BA:2375:G:O4'	2.12	0.50
36:BA:2752:C:O2	36:BA:2752:C:C2'	2.58	0.50
38:BC:83:ILE:HG12	38:BC:95:GLY:HA3	1.93	0.50
38:BC:83:ILE:HG23	38:BC:95:GLY:HA3	1.94	0.50
38:BC:182:PRO:HD2	38:BC:183:GLU:OE2	2.11	0.50
40:BE:24:THR:OG1	40:BE:186:GLY:HA2	2.12	0.50
41:BF:3:GLU:O	41:BF:24:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:170:LEU:HB3	41:BF:173:VAL:CG2	2.42	0.50
42:BG:96:ARG:N	42:BG:99:MET:HE2	2.27	0.50
42:BG:113:ARG:O	42:BG:140:ILE:HG22	2.11	0.50
43:BH:18:GLU:HB2	43:BH:25:LYS:HB2	1.94	0.50
48:BP:96:THR:H	48:BP:99:LEU:HD22	1.77	0.50
49:BQ:43:THR:HA	49:BQ:93:TYR:O	2.12	0.50
54:BV:58:VAL:CG1	54:BV:97:LYS:HB2	2.42	0.50
1:CA:36:C:H2'	1:CA:37:U:C6	2.47	0.50
1:CA:377:G:P	16:CP:5:ARG:HD3	2.51	0.50
1:CA:406:G:H2'	1:CA:407:G:C8	2.47	0.50
1:CA:538:G:H5''	12:CL:114:LYS:HB2	1.94	0.50
1:CA:669:U:H2'	1:CA:670:G:C8	2.47	0.50
1:CA:1403:C:H1'	1:CA:1500:A:N1	2.27	0.50
1:CA:1413:A:C2	1:CA:1488:G:C2	3.00	0.50
1:CA:1466:C:O2'	1:CA:1467:G:H5'	2.12	0.50
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.37	0.50
3:CC:113:ALA:HB3	3:CC:185:GLY:N	2.26	0.50
5:CE:103:GLY:H	5:CE:106:PRO:CG	2.24	0.50
7:CG:26:PHE:O	7:CG:27:ILE:C	2.55	0.50
11:CK:123:LYS:HA	11:CK:126:ARG:HB3	1.93	0.50
16:CP:19:ILE:HB	16:CP:37:GLY:O	2.12	0.50
16:CP:23:ASP:O	16:CP:23:ASP:OD1	2.30	0.50
19:CS:28:LYS:C	19:CS:29:ARG:CG	2.85	0.50
19:CS:45:VAL:C	19:CS:47:HIS:H	2.20	0.50
19:CS:63:THR:HG23	19:CS:64:GLU:N	2.26	0.50
25:CZ:202:LEU:C	25:CZ:204:ASP:H	2.19	0.50
25:CZ:356:PRO:O	25:CZ:357:PRO:O	2.30	0.50
26:D0:19:LYS:NZ	26:D0:21:LEU:HD21	2.27	0.50
27:D1:69:LYS:O	27:D1:70:VAL:C	2.55	0.50
32:D6:35:GLU:HB3	32:D6:51:GLU:HG3	1.94	0.50
34:D8:13:ARG:CB	48:DP:63:PRO:HA	2.42	0.50
36:DA:251:A:H2'	36:DA:252:G:C4'	2.42	0.50
36:DA:483:A:H1'	57:DY:60:PHE:HZ	1.75	0.50
36:DA:807:U:H2'	36:DA:808:G:C8	2.47	0.50
36:DA:830:G:C4	36:DA:2448:A:C6	3.00	0.50
36:DA:904:C:C6	36:DA:904:C:OP2	2.65	0.50
36:DA:926:A:C5'	36:DA:926:A:H8	2.23	0.50
36:DA:1170:G:H5''	36:DA:1173:G:N2	2.26	0.50
36:DA:1202:C:H2'	36:DA:1203:G:C5'	2.34	0.50
36:DA:1605:C:N4	36:DA:1606:G:C2	2.80	0.50
36:DA:1654:A:O2'	40:DE:113:PHE:O	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1843:C:H2'	36:DA:1844:C:C6	2.47	0.50
36:DA:2305:A:N1	42:DG:43:LEU:HD13	2.27	0.50
36:DA:2374:C:H2'	36:DA:2375:G:O4'	2.11	0.50
36:DA:2415:G:H4'	48:DP:66:GLY:O	2.12	0.50
36:DA:2558:C:H2'	36:DA:2559:C:C6	2.47	0.50
39:DD:130:ALA:O	39:DD:131:LEU:HG	2.12	0.50
46:DN:4:TYR:N	46:DN:4:TYR:CD1	2.77	0.50
46:DN:61:ARG:HG3	46:DN:61:ARG:NH1	2.26	0.50
47:DO:11:ALA:HB1	47:DO:98:VAL:CG2	2.34	0.50
47:DO:77:ILE:HD11	52:DT:72:VAL:HG12	1.94	0.50
49:DQ:125:LEU:HD23	49:DQ:125:LEU:N	2.27	0.50
50:DR:28:LEU:CB	50:DR:34:ILE:HG13	2.41	0.50
51:DS:13:ARG:CG	51:DS:14:VAL:H	2.05	0.50
51:DS:24:LEU:HD13	51:DS:41:ASP:HB2	1.93	0.50
51:DS:97:ARG:NE	51:DS:97:ARG:C	2.70	0.50
52:DT:49:VAL:C	52:DT:50:ILE:HD12	2.37	0.50
52:DT:50:ILE:HG22	52:DT:51:ARG:N	2.27	0.50
55:DW:64:MET:O	55:DW:109:GLU:HG2	2.12	0.50
1:AA:109:A:C8	1:AA:326:G:H2'	2.46	0.49
1:AA:321:A:H4'	1:AA:1436:U:H5'	1.94	0.49
1:AA:532:A:H3'	1:AA:533:A:C5'	2.42	0.49
1:AA:766:A:C8	1:AA:814:A:C6	3.00	0.49
1:AA:896:C:O2'	1:AA:897:C:H5'	2.11	0.49
1:AA:1286:A:O2'	1:AA:1287:A:C5'	2.60	0.49
2:AB:114:ARG:NH1	2:AB:118:LEU:HD21	2.27	0.49
3:AC:18:TRP:HB3	3:AC:20:SER:H	1.77	0.49
3:AC:26:LYS:CG	3:AC:27:LYS:H	2.20	0.49
3:AC:147:LYS:O	3:AC:203:PHE:HD2	1.93	0.49
4:AD:65:ARG:HD2	4:AD:72:GLU:CA	2.42	0.49
4:AD:94:LEU:O	4:AD:95:GLY:C	2.54	0.49
12:AL:83:VAL:CG1	12:AL:84:LEU:N	2.74	0.49
13:AM:120:LYS:HA	13:AM:120:LYS:HE3	1.94	0.49
14:AN:29:ARG:CG	14:AN:29:ARG:NH1	2.75	0.49
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.12	0.49
21:AU:5:ASP:C	21:AU:7:ARG:H	2.20	0.49
24:AY:73:A:H2'	24:AY:74:C:O4'	2.12	0.49
25:AZ:86:ALA:C	25:AZ:87:ASP:OD1	2.54	0.49
25:AZ:176:LEU:HB2	62:AZ:501:GDP:C6	2.46	0.49
25:AZ:223:MET:HB2	25:AZ:242:ILE:HA	1.94	0.49
33:B7:20:ALA:C	33:B7:22:MET:N	2.70	0.49
35:B9:31:LYS:C	35:B9:32:HIS:HD2	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:251:A:H5'	48:BP:51:PHE:CZ	2.47	0.49
36:BA:693:C:O2'	36:BA:694:U:H5'	2.12	0.49
36:BA:783:A:H2'	36:BA:784:A:O5'	2.12	0.49
36:BA:830:G:C4	36:BA:2448:A:C6	3.00	0.49
36:BA:1173:G:H2'	36:BA:1175:U:C5	2.47	0.49
36:BA:1288:U:C2	36:BA:1327:C:C2	3.00	0.49
36:BA:1328:G:N1	36:BA:1647:G:N2	2.60	0.49
36:BA:1720:U:H2'	36:BA:1721:G:C5'	2.42	0.49
36:BA:1827:C:C2'	36:BA:1828:G:H5'	2.42	0.49
36:BA:1832:C:N4	36:BA:1833:U:C4	2.80	0.49
36:BA:2058:A:O5'	36:BA:2058:A:H8	1.95	0.49
36:BA:2358:G:C2'	36:BA:2359:C:H5'	2.42	0.49
36:BA:2620:C:C1'	40:BE:156:MET:HB2	2.42	0.49
36:BA:2850:A:C2	50:BR:61:HIS:CD2	2.99	0.49
38:BC:86:ALA:HB3	38:BC:94:VAL:CG1	2.39	0.49
39:BD:18:VAL:HG23	39:BD:211:ARG:NH2	2.27	0.49
39:BD:244:ARG:HG2	39:BD:245:PRO:HB3	1.93	0.49
40:BE:4:ILE:HG12	40:BE:5:LEU:N	2.27	0.49
40:BE:82:ARG:HG3	40:BE:83:ASP:H	1.77	0.49
40:BE:145:LYS:O	40:BE:146:THR:HG23	2.11	0.49
41:BF:33:LEU:O	41:BF:37:VAL:HG23	2.11	0.49
51:BS:101:LEU:HD12	51:BS:101:LEU:C	2.37	0.49
52:BT:47:GLY:HA3	52:BT:65:LYS:HB2	1.94	0.49
52:BT:115:ARG:HG3	52:BT:115:ARG:HH11	1.76	0.49
55:BW:14:PRO:O	55:BW:17:VAL:N	2.45	0.49
55:BW:17:VAL:C	55:BW:19:LEU:H	2.19	0.49
57:BY:85:VAL:HG12	57:BY:86:ARG:H	1.75	0.49
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.94	0.49
1:CA:39:G:O2'	1:CA:40:C:H5'	2.12	0.49
1:CA:224:C:H2'	1:CA:225:C:C6	2.46	0.49
1:CA:390:C:H2'	1:CA:391:G:C8	2.48	0.49
1:CA:424:G:C2	1:CA:425:G:N7	2.80	0.49
1:CA:492:G:N2	1:CA:493:G:H1'	2.26	0.49
1:CA:507:C:H3'	1:CA:508:C:C6	2.46	0.49
1:CA:563:A:N3	1:CA:563:A:C2'	2.74	0.49
1:CA:635:G:O2'	1:CA:636:U:H5'	2.12	0.49
1:CA:858:G:C8	1:CA:858:G:OP2	2.65	0.49
2:CB:106:LYS:CG	2:CB:107:THR:N	2.73	0.49
4:CD:14:ARG:HD2	4:CD:59:ARG:NH1	2.27	0.49
4:CD:74:GLN:O	4:CD:77:ASN:HB3	2.12	0.49
4:CD:196:LEU:C	4:CD:198:VAL:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:6:PHE:HB2	5:CE:34:VAL:CG2	2.41	0.49
8:CH:6:ILE:HD12	8:CH:6:ILE:H	1.76	0.49
9:CI:97:LYS:O	9:CI:98:PRO:C	2.54	0.49
15:CO:15:PHE:O	15:CO:27:VAL:HG22	2.12	0.49
16:CP:21:VAL:HG13	16:CP:34:GLU:H	1.77	0.49
17:CQ:27:PHE:CE1	17:CQ:36:ILE:HD11	2.47	0.49
22:CW:16:U:H3'	22:CW:17:C:H5'	1.94	0.49
22:CW:55:U:H3'	22:CW:55:U:O2	2.12	0.49
24:CY:20:H2U:O4'	24:CY:20:H2U:OP2	2.31	0.49
25:CZ:32:THR:HA	25:CZ:70:TYR:HB3	1.94	0.49
25:CZ:93:ILE:HD13	63:CZ:502:KIR:H381	1.94	0.49
25:CZ:219:LYS:HB3	25:CZ:220:PRO:CD	2.41	0.49
25:CZ:246:LYS:HB3	25:CZ:281:ILE:CG2	2.33	0.49
25:CZ:305:ALA:HB1	25:CZ:309:SER:HB3	1.94	0.49
28:D2:31:GLU:HA	28:D2:34:GLU:HB3	1.94	0.49
28:D2:48:HIS:ND1	36:DA:95:G:O2'	2.43	0.49
36:DA:271(C):C:O2'	36:DA:271(D):G:H5'	2.11	0.49
36:DA:304:G:N3	36:DA:314:A:C2	2.80	0.49
36:DA:325:G:O2'	36:DA:326:G:H5'	2.12	0.49
36:DA:389:G:C6	48:DP:70:GLN:HG3	2.46	0.49
36:DA:589:C:H2'	36:DA:590:A:C8	2.48	0.49
36:DA:654(P):C:H2'	36:DA:654(Q):C:O4'	2.12	0.49
36:DA:892:G:H2'	36:DA:893:C:C5	2.47	0.49
36:DA:1112:G:O2'	36:DA:1113:U:H5'	2.12	0.49
36:DA:1221:C:H2'	36:DA:1221(A):C:C6	2.47	0.49
36:DA:1410:G:O2'	36:DA:1411:C:H5'	2.12	0.49
36:DA:1458:C:H4'	36:DA:1459:G:O5'	2.12	0.49
36:DA:1923:U:O2'	36:DA:1924:C:H5'	2.12	0.49
36:DA:2023:G:C5'	36:DA:2617:C:H4'	2.40	0.49
36:DA:2260:C:N4	36:DA:2280:G:H1	2.07	0.49
36:DA:2681:C:H2'	36:DA:2681:C:O2	2.12	0.49
36:DA:2819:G:C6	36:DA:2821:A:N3	2.80	0.49
36:DA:2839:G:H2'	36:DA:2840:C:H6	1.77	0.49
37:DB:79:C:H2'	37:DB:80:U:O4'	2.11	0.49
39:DD:4:LYS:HB2	39:DD:18:VAL:HG12	1.94	0.49
39:DD:214:TRP:O	39:DD:215:LEU:C	2.55	0.49
40:DE:126:PRO:O	40:DE:127:ASP:C	2.55	0.49
41:DF:11:VAL:HG12	41:DF:12:LEU:N	2.20	0.49
41:DF:185:ASP:HA	41:DF:188:ARG:CG	2.42	0.49
42:DG:77:ILE:C	42:DG:79:ASN:N	2.68	0.49
42:DG:141:PHE:HB2	42:DG:144:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:21:LYS:HE3	46:DN:25:ARG:HB2	1.94	0.49
46:DN:57:ALA:O	46:DN:58:ASP:O	2.29	0.49
46:DN:96:GLU:CD	46:DN:96:GLU:H	2.19	0.49
52:DT:13:ARG:NH2	52:DT:15:VAL:CG1	2.75	0.49
53:DU:108:GLU:HG3	54:DV:44:LYS:HG2	1.92	0.49
54:DV:95:LEU:C	54:DV:95:LEU:CD2	2.85	0.49
58:DZ:10:ARG:CG	58:DZ:12:GLY:H	2.25	0.49
1:AA:34:C:H1'	12:AL:32:PHE:CE2	2.47	0.49
1:AA:798:G:H2'	1:AA:799:G:O5'	2.12	0.49
1:AA:1285:A:H1'	1:AA:1286:A:C8	2.47	0.49
1:AA:1410:G:C6	1:AA:1491:G:C6	3.00	0.49
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.40	0.49
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	2.11	0.49
4:AD:43:HIS:O	4:AD:45:GLN:N	2.45	0.49
4:AD:55:ALA:O	4:AD:58:LEU:N	2.45	0.49
5:AE:30:ALA:O	5:AE:45:PHE:HA	2.12	0.49
7:AG:58:PRO:O	7:AG:59:LEU:C	2.56	0.49
7:AG:107:ALA:O	7:AG:108:ALA:C	2.55	0.49
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.36	0.49
13:AM:15:VAL:C	13:AM:17:VAL:N	2.67	0.49
17:AQ:90:ILE:O	17:AQ:93:GLN:N	2.46	0.49
18:AR:45:SER:H	18:AR:51:LEU:HG	1.77	0.49
19:AS:28:LYS:O	19:AS:29:ARG:HG3	2.12	0.49
19:AS:67:VAL:C	19:AS:69:HIS:N	2.70	0.49
22:AW:55:U:H2'	22:AW:57:G:OP2	2.13	0.49
25:AZ:155:ARG:HH12	25:AZ:168:VAL:H	1.59	0.49
25:AZ:163:PHE:C	25:AZ:165:GLY:H	2.20	0.49
26:B0:43:THR:HG21	36:BA:2336:A:H61	1.78	0.49
28:B2:33:MET:HE1	56:BX:5:TYR:O	2.12	0.49
29:B3:15:TYR:HB3	29:B3:16:PRO:HD2	1.94	0.49
36:BA:109:G:H2'	36:BA:110:G:H8	1.77	0.49
36:BA:270:A:H2'	36:BA:271:A:O4'	2.12	0.49
36:BA:271(U):G:C4	36:BA:271(V):G:C8	3.00	0.49
36:BA:472:A:H2'	36:BA:473:G:H5'	1.94	0.49
36:BA:699:A:C2'	36:BA:700:G:H5'	2.41	0.49
36:BA:849:A:H2'	36:BA:850:C:O4'	2.12	0.49
36:BA:864:G:N2	36:BA:913:U:O2	2.45	0.49
36:BA:996:A:O2'	36:BA:997:G:C5'	2.58	0.49
36:BA:1478:G:C2	36:BA:1479:G:C5	3.01	0.49
36:BA:1773:A:H62	36:BA:1829:A:H1'	1.77	0.49
36:BA:1781:C:O2	36:BA:1781:C:O4'	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1899:G:N2	36:BA:1903:G:C2	2.81	0.49
36:BA:2015:A:O2'	36:BA:2016:U:H5'	2.11	0.49
36:BA:2206:G:C2	36:BA:2207:G:H5'	2.47	0.49
36:BA:2314:C:H6	36:BA:2314:C:O5'	1.95	0.49
37:BB:42:C:H1'	42:BG:66:GLN:NE2	2.27	0.49
37:BB:56:G:O2'	37:BB:57:A:OP2	2.27	0.49
38:BC:117:PRO:HD3	38:BC:146:GLY:H	1.76	0.49
39:BD:57:GLY:O	39:BD:58:HIS:C	2.52	0.49
40:BE:199:ARG:HB2	40:BE:199:ARG:NH1	2.27	0.49
41:BF:34:TRP:CD1	48:BP:10:PRO:HB2	2.48	0.49
42:BG:44:GLY:C	42:BG:46:ALA:N	2.70	0.49
42:BG:117:PHE:O	42:BG:118:ARG:CG	2.51	0.49
42:BG:162:THR:O	42:BG:164:GLU:OE2	2.31	0.49
45:BK:100:UNK:C	45:BK:136:UNK:HA	2.42	0.49
47:BO:60:ALA:HB1	47:BO:85:VAL:O	2.13	0.49
47:BO:78:ARG:HH21	52:BT:73:GLU:CD	2.20	0.49
48:BP:23:PRO:HG2	48:BP:33:ARG:HG3	1.94	0.49
50:BR:17:ARG:NH1	50:BR:17:ARG:HB3	2.27	0.49
53:BU:9:VAL:O	53:BU:12:ARG:HB2	2.12	0.49
56:BX:23:GLU:N	56:BX:23:GLU:CD	2.70	0.49
56:BX:60:ARG:HG3	56:BX:75:ASP:CG	2.37	0.49
58:BZ:28:MET:O	58:BZ:29:TYR:CB	2.59	0.49
58:BZ:58:VAL:C	58:BZ:59:LEU:HD23	2.37	0.49
1:CA:35:G:C6	1:CA:36:C:N4	2.80	0.49
1:CA:194:C:H2'	1:CA:195:A:C5'	2.38	0.49
1:CA:706:A:O2'	11:CK:31:THR:HB	2.12	0.49
1:CA:803:G:C6	1:CA:804:U:C4	3.00	0.49
1:CA:899:C:H2'	1:CA:900:A:O4'	2.11	0.49
1:CA:1126:U:OP2	1:CA:1281:U:O2	2.30	0.49
1:CA:1166:G:H1'	1:CA:1171:G:N2	2.26	0.49
1:CA:1379:G:H2'	1:CA:1380:U:H6	1.76	0.49
1:CA:1432:G:OP2	52:DT:108:ARG:CZ	2.60	0.49
2:CB:10:LEU:O	2:CB:13:ALA:HB3	2.12	0.49
2:CB:17:PHE:HB3	2:CB:44:LEU:CD2	2.42	0.49
3:CC:13:GLY:O	3:CC:14:ILE:CB	2.60	0.49
3:CC:29:TYR:OH	14:CN:54:PRO:HB2	2.11	0.49
4:CD:2:GLY:O	4:CD:3:ARG:C	2.55	0.49
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.75	0.49
10:CJ:43:ARG:HB2	10:CJ:67:THR:HG21	1.90	0.49
11:CK:65:ALA:HB1	11:CK:98:LEU:HD21	1.94	0.49
13:CM:9:ILE:HD12	13:CM:9:ILE:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:93:GLU:C	20:CT:93:GLU:CD	2.80	0.49
22:CV:5:G:O2'	22:CV:6:G:H5'	2.12	0.49
22:CV:9:A:C4	22:CV:46:G:N2	2.80	0.49
25:CZ:121:LEU:O	25:CZ:125:GLN:HG2	2.12	0.49
27:D1:20:ARG:HB3	27:D1:34:THR:HA	1.93	0.49
29:D3:7:LYS:O	29:D3:54:VAL:CA	2.59	0.49
32:D6:15:GLU:OE2	32:D6:41:PRO:HB2	2.12	0.49
33:D7:37:LYS:HD2	36:DA:458:G:C8	2.47	0.49
36:DA:551:G:O2'	36:DA:1220:A:N3	2.39	0.49
36:DA:597:U:H5''	48:DP:15:ARG:NH2	2.27	0.49
36:DA:763:G:H2'	36:DA:764:A:O5'	2.12	0.49
36:DA:819:A:N6	36:DA:1189:A:H1'	2.27	0.49
36:DA:953:A:C2	36:DA:965:C:O2	2.64	0.49
36:DA:987:G:H2'	36:DA:988:A:O4'	2.12	0.49
36:DA:1215:G:O2'	36:DA:1216:G:H5'	2.12	0.49
36:DA:1429:G:H2'	36:DA:1430:C:C6	2.46	0.49
36:DA:1897:G:O5'	36:DA:1897:G:H8	1.96	0.49
36:DA:1907:G:C6	36:DA:1924:C:N3	2.80	0.49
36:DA:2010:G:C5	36:DA:2011:U:C5	3.00	0.49
36:DA:2192:G:H2'	36:DA:2193:G:H5'	1.94	0.49
36:DA:2222:G:H1'	39:DD:148:GLU:OE2	2.11	0.49
36:DA:2305:A:C1'	42:DG:135:LEU:O	2.59	0.49
36:DA:2590:A:C2'	36:DA:2591:C:H5'	2.42	0.49
36:DA:2635:C:H5''	40:DE:78:LEU:O	2.12	0.49
36:DA:2831:G:OP1	36:DA:2834:G:H4'	2.11	0.49
36:DA:2873:A:N3	50:DR:6:SER:OG	2.38	0.49
37:DB:77:U:O2	37:DB:77:U:H2'	2.12	0.49
38:DC:19:VAL:HA	38:DC:223:ARG:O	2.12	0.49
39:DD:152:GLY:O	39:DD:153:ALA:C	2.54	0.49
40:DE:12:THR:OG1	40:DE:13:ARG:N	2.44	0.49
40:DE:95:ILE:H	40:DE:95:ILE:CD1	2.25	0.49
40:DE:154:LYS:O	40:DE:155:LYS:C	2.56	0.49
40:DE:199:ARG:NH1	40:DE:199:ARG:CB	2.75	0.49
42:DG:72:ARG:HB3	42:DG:86:MET:HA	1.92	0.49
53:DU:9:VAL:C	53:DU:13:LYS:HE2	2.37	0.49
53:DU:17:ILE:HG23	53:DU:39:LEU:HD12	1.95	0.49
55:DW:5:ALA:C	55:DW:6:ILE:HG13	2.37	0.49
57:DY:33:LYS:C	57:DY:35:TYR:H	2.19	0.49
58:DZ:24:LEU:O	58:DZ:24:LEU:CD2	2.60	0.49
1:AA:189:G:C6	1:AA:189(A):C:N4	2.81	0.49
1:AA:722:A:O2'	1:AA:723:U:H3'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:876:G:H2'	1:AA:877:C:C6	2.48	0.49
1:AA:956:U:H2'	1:AA:957:U:O4'	2.12	0.49
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.77	0.49
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.46	0.49
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.37	0.49
2:AB:8:LYS:HZ3	2:AB:217:ARG:NH1	2.09	0.49
6:AF:2:ARG:NE	6:AF:69:GLU:HG3	2.27	0.49
11:AK:64:ALA:O	11:AK:68:ALA:N	2.42	0.49
18:AR:50:ILE:HD11	18:AR:74:ARG:CZ	2.42	0.49
20:AT:33:ILE:CG2	20:AT:63:ILE:HG12	2.42	0.49
22:AW:53:G:C2	22:AW:54:U:N3	2.80	0.49
23:AX:19:U:H2'	23:AX:20:U:C6	2.48	0.49
25:AZ:12:VAL:HG13	25:AZ:100:ASP:OD2	2.11	0.49
25:AZ:70:TYR:CD1	25:AZ:70:TYR:C	2.90	0.49
25:AZ:223:MET:HB3	25:AZ:242:ILE:HA	1.93	0.49
26:B0:30:VAL:HA	26:B0:66:VAL:CA	2.40	0.49
27:B1:45:ASN:CA	36:BA:2230:G:H1'	2.42	0.49
28:B2:6:VAL:HG22	28:B2:9:GLN:OE1	2.12	0.49
34:B8:59:LYS:NZ	48:BP:50:ARG:HB3	2.27	0.49
36:BA:18:C:H2'	36:BA:19:C:H6	1.78	0.49
36:BA:25:U:H2'	36:BA:26:G:O4'	2.11	0.49
36:BA:571:A:H5'	36:BA:2030:A:N7	2.26	0.49
36:BA:769:G:C4'	36:BA:1379:A:N6	2.74	0.49
36:BA:1854:A:H62	36:BA:1888:G:H8	1.58	0.49
36:BA:2071:A:H2	36:BA:2441:C:N3	2.10	0.49
36:BA:2189:U:H3'	36:BA:2190:G:C5'	2.42	0.49
36:BA:2286:A:C2	36:BA:2346:A:N6	2.80	0.49
36:BA:2415:G:H4'	48:BP:66:GLY:O	2.12	0.49
36:BA:2558:C:H2'	36:BA:2559:C:C6	2.47	0.49
36:BA:2867:G:C5	52:BT:23:ARG:NH1	2.80	0.49
40:BE:53:PRO:O	40:BE:74:PRO:HA	2.12	0.49
41:BF:31:HIS:CE1	41:BF:34:TRP:CE3	3.00	0.49
41:BF:123:LEU:HD12	41:BF:124:LEU:N	2.27	0.49
42:BG:52:ILE:HG12	42:BG:53:LEU:H	1.77	0.49
43:BH:42:ARG:NH1	43:BH:42:ARG:CB	2.75	0.49
45:BK:87:UNK:O	45:BK:88:UNK:CB	2.59	0.49
49:BQ:41:TRP:HB3	49:BQ:94:VAL:HG11	1.94	0.49
50:BR:24:GLN:O	50:BR:25:ALA:C	2.56	0.49
50:BR:85:PRO:O	50:BR:86:ARG:C	2.56	0.49
50:BR:103:ARG:HH11	50:BR:110:PRO:CD	2.24	0.49
51:BS:85:VAL:HG23	51:BS:86:ALA:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:121:ILE:O	52:BT:124:ASP:N	2.42	0.49
52:BT:129:ARG:NH1	52:BT:131:ALA:HB3	2.26	0.49
53:BU:4:ALA:O	53:BU:5:LYS:O	2.29	0.49
53:BU:17:ILE:HG23	53:BU:39:LEU:HD12	1.94	0.49
55:BW:65:LEU:HB3	55:BW:68:ARG:HD2	1.95	0.49
58:BZ:20:ARG:HB2	58:BZ:20:ARG:CZ	2.41	0.49
58:BZ:153:SER:N	58:BZ:167:PRO:HB3	2.28	0.49
1:CA:189:G:H2'	1:CA:189(A):C:H6	1.75	0.49
1:CA:191:G:C4	20:CT:105:SER:HB3	2.47	0.49
1:CA:532:A:H3'	1:CA:533:A:C5'	2.41	0.49
1:CA:546:G:OP1	4:CD:73:ARG:HB2	2.13	0.49
1:CA:570:G:H1'	1:CA:820:U:C4	2.47	0.49
1:CA:833:U:H2'	1:CA:834:C:C6	2.48	0.49
1:CA:1129:C:H4'	1:CA:1130:A:C8	2.47	0.49
1:CA:1360:A:C2'	1:CA:1361:G:H5'	2.42	0.49
1:CA:1483:A:H2	36:DA:1960:A:H1'	1.78	0.49
1:CA:1508:G:C6	1:CA:1509:C:C4	3.01	0.49
3:CC:18:TRP:HE1	14:CN:55:GLY:H	1.61	0.49
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.11	0.49
4:CD:70:ILE:CG2	4:CD:74:GLN:HB2	2.41	0.49
4:CD:170:VAL:CG1	4:CD:171:GLY:N	2.75	0.49
4:CD:182:LYS:O	4:CD:183:GLY:O	2.31	0.49
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.12	0.49
8:CH:4:ASP:OD1	8:CH:7:ALA:N	2.44	0.49
8:CH:86:ILE:CG2	8:CH:133:LEU:HD23	2.35	0.49
10:CJ:18:ALA:O	10:CJ:22:LYS:N	2.45	0.49
10:CJ:80:LYS:HB3	10:CJ:80:LYS:HZ3	1.77	0.49
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.13	0.49
18:CR:24:ALA:O	18:CR:26:LEU:N	2.45	0.49
25:CZ:86:ALA:C	25:CZ:87:ASP:OD1	2.55	0.49
25:CZ:99:MET:H	25:CZ:241:ARG:NH2	2.10	0.49
25:CZ:267:VAL:CG2	25:CZ:288:VAL:HG13	2.42	0.49
28:D2:50:ILE:HD12	28:D2:50:ILE:H	1.78	0.49
29:D3:19:GLN:C	29:D3:21:ALA:H	2.18	0.49
29:D3:50:VAL:C	29:D3:52:HIS:H	2.20	0.49
36:DA:296:C:N4	36:DA:343:C:H42	2.10	0.49
36:DA:391:G:H2'	36:DA:392:C:H5'	1.94	0.49
36:DA:635:C:H1'	36:DA:639:U:H5''	1.95	0.49
36:DA:723:G:H2'	36:DA:724:U:H6	1.73	0.49
36:DA:784:A:C8	36:DA:792:G:C5	3.00	0.49
36:DA:979:G:H21	36:DA:985:C:N4	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1274:A:N6	36:DA:1646:C:O2	2.43	0.49
36:DA:1328:G:H2'	36:DA:1330:C:C5	2.47	0.49
36:DA:1344:G:H22	36:DA:1404:C:H1'	1.77	0.49
36:DA:1722:A:O2'	36:DA:1739:U:H5''	2.12	0.49
36:DA:2111:C:H42	36:DA:2147:G:H1	1.61	0.49
36:DA:2186:G:C2	36:DA:2187:G:C6	3.00	0.49
36:DA:2317:C:O2'	36:DA:2318:G:H5'	2.11	0.49
36:DA:2577:A:C5'	36:DA:2578:G:H5'	2.42	0.49
36:DA:2776:A:H4'	36:DA:2778:A:H5''	1.93	0.49
36:DA:2811:G:H5'	40:DE:60:ASN:ND2	2.27	0.49
39:DD:241:PRO:C	39:DD:242:ARG:HD2	2.37	0.49
39:DD:259:THR:O	39:DD:260:ARG:C	2.55	0.49
40:DE:55:ASN:ND2	40:DE:75:VAL:CG2	2.74	0.49
41:DF:42:ALA:O	41:DF:44:ARG:N	2.43	0.49
43:DH:41:MET:O	43:DH:42:ARG:CB	2.60	0.49
43:DH:42:ARG:NH1	43:DH:42:ARG:CB	2.74	0.49
44:DJ:116:UNK:O	44:DJ:123:UNK:N	2.45	0.49
45:DK:99:UNK:O	45:DK:135:UNK:O	2.30	0.49
46:DN:18:ALA:HB1	46:DN:26:LEU:HD22	1.94	0.49
47:DO:64:ARG:CZ	52:DT:70:VAL:HG21	2.42	0.49
49:DQ:10:ARG:NH1	49:DQ:10:ARG:CB	2.75	0.49
49:DQ:116:GLU:O	49:DQ:117:ALA:C	2.55	0.49
50:DR:38:VAL:O	50:DR:41:ALA:HB3	2.12	0.49
51:DS:29:PHE:CE2	51:DS:31:SER:HB2	2.47	0.49
51:DS:73:LEU:HD23	51:DS:73:LEU:C	2.37	0.49
53:DU:70:ARG:C	53:DU:72:HIS:H	2.18	0.49
54:DV:70:ILE:HD12	54:DV:87:HIS:HD2	1.77	0.49
55:DW:68:ARG:O	55:DW:110:LYS:CB	2.60	0.49
56:DX:23:GLU:N	56:DX:23:GLU:CD	2.70	0.49
56:DX:39:ILE:CG2	56:DX:54:VAL:HG11	2.41	0.49
57:DY:86:ARG:NH2	57:DY:95:LYS:NZ	2.60	0.49
58:DZ:40:ASP:OD1	58:DZ:41:LEU:N	2.45	0.49
58:DZ:163:LEU:HD11	58:DZ:165:VAL:HG23	1.94	0.49
1:AA:902:G:H2'	1:AA:903:G:C8	2.31	0.49
1:AA:1157:A:C4	1:AA:1181:G:N2	2.80	0.49
1:AA:1186:G:H21	14:AN:61:TRP:C	2.20	0.49
1:AA:1439:C:H5'	20:AT:38:LYS:NZ	2.27	0.49
1:AA:1520:G:O2'	1:AA:1521:G:H5'	2.11	0.49
2:AB:219:VAL:CA	2:AB:222:ILE:HG12	2.42	0.49
3:AC:130:VAL:O	3:AC:131:ARG:C	2.55	0.49
4:AD:74:GLN:O	4:AD:77:ASN:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:108:LEU:HG	4:AD:108:LEU:O	2.12	0.49
4:AD:186:LEU:O	4:AD:187:ARG:CB	2.61	0.49
6:AF:27:GLN:O	6:AF:28:ARG:C	2.55	0.49
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.11	0.49
11:AK:89:ALA:C	11:AK:91:ARG:H	2.19	0.49
15:AO:81:LEU:CD1	15:AO:85:LEU:HD12	2.42	0.49
20:AT:32:ALA:O	20:AT:36:LEU:HB2	2.12	0.49
22:AW:17:C:H42	36:BA:2180:U:H3	1.59	0.49
22:AW:25:C:H2'	22:AW:26:A:H8	1.76	0.49
25:AZ:246:LYS:CB	25:AZ:281:ILE:HG22	2.33	0.49
25:AZ:255:ILE:HG12	25:AZ:304:LEU:CD2	2.42	0.49
31:B5:16:ARG:HH11	31:B5:16:ARG:HG2	1.77	0.49
31:B5:55:ARG:HD3	31:B5:56:LYS:H	1.76	0.49
32:B6:5:VAL:HG11	36:BA:2283:C:C4'	2.43	0.49
32:B6:19:ARG:NH1	36:BA:2400:G:O2'	2.43	0.49
34:B8:8:LYS:HE2	34:B8:11:LYS:HE2	1.93	0.49
36:BA:29:U:O2'	53:BU:8:VAL:HG23	2.13	0.49
36:BA:218:A:O2'	36:BA:219:G:H5'	2.12	0.49
36:BA:391:G:O2'	36:BA:392:C:H5'	2.12	0.49
36:BA:810:U:OP1	36:BA:1253:A:N7	2.45	0.49
36:BA:860:U:C4	36:BA:2268:A:C8	3.00	0.49
36:BA:976:C:H2'	36:BA:977:G:H8	1.77	0.49
36:BA:1429:G:H2'	36:BA:1430:C:H6	1.78	0.49
36:BA:1661:G:C6	36:BA:2000:G:C2	3.00	0.49
36:BA:2488:A:H2'	36:BA:2489:G:C8	2.48	0.49
36:BA:2639:A:H3'	36:BA:2640:G:C8	2.47	0.49
38:BC:161:ILE:C	38:BC:161:ILE:CD1	2.82	0.49
39:BD:218:ARG:HG3	39:BD:218:ARG:HH11	1.77	0.49
40:BE:102:VAL:HG12	40:BE:199:ARG:O	2.12	0.49
41:BF:118:ALA:HB1	41:BF:123:LEU:HD22	1.95	0.49
42:BG:18:GLU:O	42:BG:19:LEU:C	2.55	0.49
42:BG:34:LEU:HA	42:BG:161:THR:CB	2.42	0.49
42:BG:58:GLN:NE2	42:BG:62:LEU:HD11	2.27	0.49
42:BG:168:GLU:C	42:BG:170:ARG:H	2.19	0.49
43:BH:41:MET:O	43:BH:42:ARG:CB	2.60	0.49
46:BN:118:LYS:C	46:BN:120:LEU:H	2.20	0.49
56:BX:7:VAL:O	56:BX:30:VAL:HA	2.12	0.49
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.06	0.49
1:CA:51:A:H4'	1:CA:52:G:C5'	2.43	0.49
1:CA:66:G:H8	1:CA:66:G:O5'	1.96	0.49
1:CA:686:U:O2'	1:CA:687:A:O5'	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:841:U:H3'	1:CA:848:C:O4'	2.13	0.49
1:CA:968:A:C4	1:CA:1062:U:H4'	2.47	0.49
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.11	0.49
2:CB:25:ASN:O	2:CB:27:LYS:N	2.45	0.49
4:CD:52:SER:O	4:CD:53:ASP:C	2.56	0.49
6:CF:5:GLU:HA	6:CF:63:TYR:O	2.12	0.49
7:CG:135:VAL:O	7:CG:136:LYS:C	2.55	0.49
10:CJ:6:ILE:HG22	10:CJ:97:GLU:O	2.12	0.49
11:CK:77:MET:HG3	11:CK:78:GLN:N	2.26	0.49
14:CN:12:ARG:HB3	14:CN:14:PRO:HD2	1.93	0.49
15:CO:82:ILE:HD13	15:CO:82:ILE:C	2.38	0.49
17:CQ:29:HIS:CE1	17:CQ:31:LEU:N	2.81	0.49
20:CT:27:LYS:HD3	20:CT:27:LYS:O	2.12	0.49
25:CZ:89:ILE:O	25:CZ:92:MET:N	2.39	0.49
25:CZ:155:ARG:HA	25:CZ:158:LEU:HD12	1.94	0.49
27:D1:17:SER:CB	27:D1:38:SER:HB2	2.41	0.49
34:D8:13:ARG:HB3	48:DP:63:PRO:HA	1.95	0.49
34:D8:45:GLY:O	34:D8:46:ARG:C	2.56	0.49
35:D9:25:VAL:HB	35:D9:34:GLN:HB3	1.94	0.49
36:DA:85:G:OP1	57:DY:9:LYS:HB2	2.12	0.49
36:DA:116:C:O2	36:DA:126:A:H2	1.94	0.49
36:DA:272(E):G:H2'	36:DA:272(F):C:H5'	1.93	0.49
36:DA:572:A:H61	36:DA:2029:G:N2	2.06	0.49
36:DA:654(B):C:H2'	36:DA:654(C):G:H8	1.76	0.49
36:DA:806:C:O2'	36:DA:2445:G:C4'	2.59	0.49
36:DA:1279:G:N2	36:DA:1292:U:C2	2.81	0.49
36:DA:1478:G:C2	36:DA:1479:G:C5	3.01	0.49
36:DA:1639:U:O2'	36:DA:1640:C:H5''	2.12	0.49
36:DA:1798:U:C5'	39:DD:259:THR:HB	2.42	0.49
36:DA:1814:G:H2'	36:DA:1815:A:N7	2.28	0.49
36:DA:1826:G:OP2	39:DD:222:ARG:HB3	2.12	0.49
36:DA:1970:A:H5''	36:DA:1971:A:OP1	2.12	0.49
36:DA:2052:G:O4'	40:DE:142:GLY:HA3	2.12	0.49
36:DA:2247:A:H2'	36:DA:2248:C:O4'	2.12	0.49
36:DA:2348:U:O2'	36:DA:2349:G:H5'	2.12	0.49
36:DA:2524:G:H5'	36:DA:2524:G:H8	1.77	0.49
39:DD:69:ARG:NH2	39:DD:192:THR:CB	2.75	0.49
42:DG:154:GLY:O	42:DG:155:MET:CB	2.61	0.49
43:DH:20:ALA:HB1	43:DH:21:PRO:HD3	1.94	0.49
43:DH:59:ARG:HA	43:DH:62:LYS:HB2	1.94	0.49
46:DN:75:TYR:HB2	46:DN:82:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:89:ARG:HG3	51:DS:92:TYR:N	2.27	0.49
53:DU:90:VAL:HG21	54:DV:47:VAL:CG2	2.43	0.49
55:DW:12:ILE:O	55:DW:13:SER:C	2.55	0.49
57:DY:81:LYS:HG3	57:DY:97:ARG:HG3	1.95	0.49
57:DY:86:ARG:O	57:DY:92:ASN:HA	2.13	0.49
1:AA:564:C:C2	17:AQ:31:LEU:HD11	2.47	0.49
1:AA:607:A:C2	16:AP:31:LYS:HG3	2.48	0.49
1:AA:669:U:H2'	1:AA:670:G:C8	2.47	0.49
1:AA:677:U:H3	1:AA:713:G:H1	1.60	0.49
1:AA:841:U:H3'	1:AA:848:C:O4'	2.13	0.49
1:AA:945:G:O2'	1:AA:946:A:H5'	2.13	0.49
1:AA:967:C:H4'	9:AI:125:TYR:HE2	1.77	0.49
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.93	0.49
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.48	0.49
1:AA:1092:A:O2'	1:AA:1093:A:H5'	2.12	0.49
1:AA:1104:G:H4'	2:AB:111:ARG:HH12	1.76	0.49
1:AA:1320:C:H5'	1:AA:1320:C:H6	1.77	0.49
1:AA:1387:G:C5	1:AA:1388:C:C5	3.01	0.49
2:AB:47:THR:HG22	2:AB:51:LEU:HD11	1.94	0.49
2:AB:170:GLU:C	2:AB:172:ILE:N	2.69	0.49
4:AD:2:GLY:O	4:AD:3:ARG:C	2.56	0.49
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.12	0.49
8:AH:9:MET:O	8:AH:10:LEU:C	2.55	0.49
8:AH:112:LEU:HD23	8:AH:112:LEU:N	2.27	0.49
9:AI:10:ARG:HD2	9:AI:75:ASP:OD1	2.13	0.49
10:AJ:17:ASP:CB	10:AJ:70:ARG:HH21	2.25	0.49
12:AL:28:LYS:C	12:AL:30:ALA:N	2.71	0.49
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.13	0.49
13:AM:102:ARG:HD3	13:AM:105:THR:OG1	2.12	0.49
15:AO:5:LYS:C	15:AO:6:GLU:HG3	2.38	0.49
19:AS:28:LYS:C	19:AS:29:ARG:CG	2.85	0.49
20:AT:74:LYS:HD3	20:AT:74:LYS:H	1.77	0.49
25:AZ:72:THR:CG2	25:AZ:203:LEU:HD23	2.31	0.49
25:AZ:138:VAL:HG23	25:AZ:174:SER:N	2.27	0.49
25:AZ:281:ILE:O	25:AZ:284:ASP:OD2	2.30	0.49
28:B2:51:ARG:O	28:B2:54:LYS:HB3	2.13	0.49
32:B6:53:LYS:HD3	32:B6:54:ILE:N	2.20	0.49
35:B9:18:ARG:O	35:B9:19:ARG:HB3	2.11	0.49
36:BA:601:C:O2	36:BA:605:C:H4'	2.13	0.49
36:BA:753:C:H2'	36:BA:754:C:C6	2.47	0.49
36:BA:1425:G:H2'	36:BA:1426:G:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1487:G:N2	36:BA:1488:G:H1'	2.27	0.49
36:BA:1511:C:C5	36:BA:1512:U:H5	2.30	0.49
36:BA:1805:U:H5''	39:BD:250:TRP:CD2	2.47	0.49
36:BA:1833:U:O2'	36:BA:1969:A:N1	2.35	0.49
36:BA:2053:G:H2'	36:BA:2054:A:O4'	2.12	0.49
36:BA:2517:C:HO2'	36:BA:2519:U:H5	1.58	0.49
36:BA:2524:G:H5'	36:BA:2524:G:C8	2.47	0.49
36:BA:2537:U:H2'	36:BA:2538:C:C6	2.48	0.49
36:BA:2579:C:C4'	40:BE:134:ILE:HG12	2.42	0.49
36:BA:2681:C:H2'	36:BA:2681:C:O2	2.11	0.49
36:BA:2690:C:C5'	36:BA:2872:G:H21	2.26	0.49
36:BA:2787:C:C2'	40:BE:61:ARG:HD3	2.42	0.49
38:BC:58:VAL:HG22	38:BC:201:PRO:HG2	1.94	0.49
38:BC:59:ARG:NE	38:BC:164:ARG:HD2	2.28	0.49
38:BC:78:ALA:HB1	38:BC:82:LYS:HB2	1.95	0.49
39:BD:142:VAL:CG2	39:BD:143:HIS:N	2.74	0.49
39:BD:252:TRP:CD1	39:BD:252:TRP:N	2.80	0.49
40:BE:195:LEU:HD11	40:BE:197:ILE:CG2	2.42	0.49
46:BN:89:LYS:C	46:BN:93:THR:HG22	2.37	0.49
46:BN:137:LYS:O	46:BN:138:LEU:HG	2.12	0.49
49:BQ:33:GLY:O	49:BQ:131:ILE:HA	2.11	0.49
49:BQ:64:ILE:HG22	49:BQ:65:PHE:N	2.28	0.49
53:BU:14:HIS:C	53:BU:16:LYS:H	2.19	0.49
53:BU:40:PHE:HB3	54:BV:75:PHE:CE1	2.47	0.49
55:BW:70:TYR:CE1	55:BW:72:LYS:HA	2.47	0.49
58:BZ:72:ARG:HG3	58:BZ:89:PHE:HB2	1.95	0.49
1:CA:55:A:H2'	25:CZ:232:THR:CG2	2.39	0.49
1:CA:544:G:C6	1:CA:545:C:N3	2.81	0.49
1:CA:823:G:N3	8:CH:1:MET:HE1	2.28	0.49
1:CA:927:G:H8	1:CA:927:G:C5'	2.25	0.49
1:CA:1469:G:N1	1:CA:1470:G:C6	2.80	0.49
1:CA:1510:U:O2	1:CA:1526:G:C2	2.66	0.49
3:CC:58:GLU:O	3:CC:59:ARG:HG3	2.12	0.49
3:CC:145:GLY:O	3:CC:146:ALA:O	2.30	0.49
4:CD:92:VAL:O	4:CD:93:PHE:C	2.52	0.49
4:CD:186:LEU:O	4:CD:187:ARG:CB	2.60	0.49
7:CG:19:GLY:O	7:CG:20:ASP:C	2.55	0.49
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.94	0.49
10:CJ:24:VAL:C	10:CJ:26:ALA:N	2.67	0.49
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.25	0.49
12:CL:69:TYR:CB	12:CL:90:VAL:HG21	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:9:VAL:HG12	19:CS:39:THR:HB	1.93	0.49
22:CV:17:C:H3'	22:CV:18:G:H5''	1.95	0.49
24:CY:16:H2U:H52	24:CY:17:H2U:H52	1.95	0.49
25:CZ:129:PRO:O	25:CZ:130:TYR:HB2	2.12	0.49
27:D1:56:GLN:O	27:D1:57:GLU:C	2.55	0.49
33:D7:19:ARG:HB3	36:DA:125:G:H5''	1.93	0.49
34:D8:13:ARG:HB2	48:DP:62:LEU:O	2.13	0.49
34:D8:52:LYS:N	34:D8:53:PRO:CD	2.73	0.49
35:D9:36:GLN:HG2	36:DA:1124:C:O2'	2.12	0.49
36:DA:6:A:O2'	46:DN:130:HIS:CB	2.57	0.49
36:DA:268:C:N4	36:DA:425:G:C6	2.81	0.49
36:DA:280:C:N4	36:DA:360:G:H1	2.10	0.49
36:DA:449:A:H4'	53:DU:3:ARG:HH21	1.76	0.49
36:DA:615:G:H2'	36:DA:616:G:H8	1.77	0.49
36:DA:701:G:H2'	36:DA:701:G:N3	2.27	0.49
36:DA:1183:G:H2'	36:DA:1184:G:C8	2.44	0.49
36:DA:1203:G:C6	36:DA:1204:A:N6	2.81	0.49
36:DA:1245:G:C5'	41:DF:34:TRP:HZ2	2.26	0.49
36:DA:1275:A:N7	50:DR:16:HIS:HB2	2.27	0.49
36:DA:1314:C:H5'	36:DA:1314:C:C6	2.33	0.49
36:DA:1672:C:N3	36:DA:1673:U:C5	2.81	0.49
36:DA:1720:U:H2'	36:DA:1721:G:C4'	2.42	0.49
36:DA:2390:U:O2'	36:DA:2391:G:H5'	2.12	0.49
36:DA:2491:U:H5'	36:DA:2570:G:H5''	1.94	0.49
36:DA:2582:G:N2	36:DA:2583:G:C1'	2.75	0.49
40:DE:96:PHE:CD2	40:DE:182:LEU:HD21	2.47	0.49
42:DG:8:LYS:HZ3	42:DG:100:TRP:CD1	2.29	0.49
43:DH:68:THR:C	43:DH:70:THR:N	2.70	0.49
43:DH:148:ILE:HG22	43:DH:162:ILE:HD13	1.94	0.49
46:DN:118:LYS:C	46:DN:120:LEU:H	2.21	0.49
48:DP:107:LYS:C	48:DP:109:GLY:H	2.19	0.49
51:DS:12:PHE:O	51:DS:14:VAL:N	2.46	0.49
53:DU:86:ALA:O	53:DU:88:ILE:N	2.45	0.49
53:DU:102:GLU:HB3	53:DU:105:VAL:HB	1.94	0.49
55:DW:73:ALA:HB3	55:DW:106:ILE:HD11	1.94	0.49
56:DX:26:TYR:O	56:DX:80:ILE:HA	2.13	0.49
57:DY:15:VAL:HB	57:DY:20:TYR:O	2.13	0.49
58:DZ:47:VAL:O	58:DZ:48:PHE:C	2.54	0.49
58:DZ:108:PRO:HA	58:DZ:141:VAL:CG1	2.42	0.49
1:AA:431:A:O2'	1:AA:432:A:H5'	2.13	0.49
1:AA:564:C:C4	17:AQ:31:LEU:HD11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1054:C:P	1:AA:1198:G:OP2	2.70	0.49
1:AA:1338:G:C6	1:AA:1339:A:C6	3.01	0.49
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.77	0.49
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.11	0.49
4:AD:52:SER:O	4:AD:53:ASP:C	2.56	0.49
12:AL:69:TYR:CB	12:AL:90:VAL:HG21	2.42	0.49
13:AM:22:ILE:HD12	13:AM:22:ILE:N	2.27	0.49
13:AM:36:LYS:C	13:AM:38:GLY:H	2.19	0.49
15:AO:10:LYS:HA	15:AO:13:GLN:OE1	2.13	0.49
16:AP:20:VAL:HA	16:AP:36:ILE:HG13	1.94	0.49
17:AQ:64:PRO:HG3	17:AQ:70:ARG:HG2	1.94	0.49
20:AT:88:VAL:O	20:AT:91:LEU:HB2	2.12	0.49
25:AZ:14:VAL:O	25:AZ:79:HIS:HA	2.11	0.49
25:AZ:124:ARG:HG2	63:AZ:502:KIR:H191	1.95	0.49
25:AZ:188:THR:HG23	25:AZ:192:GLU:CD	2.36	0.49
27:B1:18:ILE:HG22	27:B1:19:GLN:N	2.28	0.49
27:B1:73:LEU:O	27:B1:77:ALA:HB2	2.13	0.49
28:B2:10:LEU:HD13	36:BA:78:A:OP1	2.13	0.49
29:B3:19:GLN:C	29:B3:21:ALA:N	2.69	0.49
31:B5:13:LYS:HZ2	36:BA:516:C:P	2.35	0.49
32:B6:15:GLU:OE2	32:B6:41:PRO:HB2	2.11	0.49
36:BA:185:U:N3	36:BA:212:G:N2	2.61	0.49
36:BA:252:G:H2'	36:BA:253:C:H6	1.75	0.49
36:BA:864:G:N2	36:BA:913:U:C2	2.80	0.49
36:BA:1484:G:H3'	36:BA:1485:G:H5''	1.93	0.49
36:BA:1636:C:O2	36:BA:1760:A:H2	1.95	0.49
36:BA:1683:C:H2'	36:BA:1684:C:C6	2.48	0.49
36:BA:1827:C:O2'	36:BA:1828:G:H5'	2.12	0.49
36:BA:1892:C:H2'	36:BA:1893:C:H6	1.76	0.49
36:BA:1911:U:H2'	36:BA:1912:A:H5'	1.95	0.49
36:BA:2083:G:C5	36:BA:2084:C:C4	3.01	0.49
36:BA:2133:G:O2'	36:BA:2134:A:H8	1.94	0.49
36:BA:2259:G:N1	36:BA:2282:G:C6	2.80	0.49
36:BA:2475:C:N4	36:BA:2529:G:H22	2.09	0.49
36:BA:2580:U:H3'	36:BA:2581:G:N2	2.27	0.49
36:BA:2885:C:C2	36:BA:2886:G:H1'	2.48	0.49
37:BB:81:G:C6	37:BB:97:G:C2	3.01	0.49
37:BB:105:A:H3'	37:BB:106:G:H8	1.77	0.49
38:BC:104:LEU:O	38:BC:105:ASP:CB	2.60	0.49
38:BC:181:PRO:HB2	38:BC:183:GLU:OE2	2.12	0.49
43:BH:90:LYS:HB3	43:BH:159:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:169:VAL:O	43:BH:169:VAL:HG13	2.12	0.49
45:BK:14:UNK:CB	45:BK:50:UNK:HA	2.41	0.49
48:BP:97:PRO:O	48:BP:99:LEU:N	2.43	0.49
51:BS:68:GLN:C	51:BS:70:GLY:N	2.66	0.49
54:BV:47:VAL:O	54:BV:47:VAL:HG23	2.12	0.49
56:BX:54:VAL:O	56:BX:55:ASN:ND2	2.39	0.49
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	2.13	0.49
58:BZ:128:VAL:CG2	58:BZ:129:SER:N	2.75	0.49
1:CA:254:G:H2'	1:CA:255:G:C8	2.47	0.49
1:CA:417:C:O5'	1:CA:417:C:H6	1.96	0.49
1:CA:445:G:C6	1:CA:490:G:N1	2.80	0.49
1:CA:663:A:H61	1:CA:742:G:H1	1.59	0.49
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.47	0.49
1:CA:1031:G:H2'	1:CA:1032:G:C8	2.48	0.49
1:CA:1109:C:H2'	1:CA:1110:A:H5'	1.94	0.49
1:CA:1360:A:O2'	1:CA:1361:G:H5'	2.12	0.49
1:CA:1419:G:O6	1:CA:1482:G:C4	2.66	0.49
2:CB:29:ALA:C	2:CB:32:ILE:HG22	2.38	0.49
2:CB:92:TYR:C	2:CB:92:TYR:HD1	2.21	0.49
2:CB:92:TYR:CE1	2:CB:151:GLY:N	2.81	0.49
2:CB:166:ASP:HB2	2:CB:205:ASP:OD2	2.12	0.49
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.23	0.49
3:CC:142:MET:C	3:CC:144:SER:N	2.64	0.49
5:CE:102:ALA:HA	5:CE:120:THR:CG2	2.43	0.49
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.94	0.49
11:CK:54:ARG:O	11:CK:57:THR:HG22	2.12	0.49
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.27	0.49
16:CP:19:ILE:HG22	16:CP:36:ILE:HG13	1.95	0.49
24:CY:57:G:H3'	24:CY:57:G:OP2	2.13	0.49
25:CZ:171:ILE:HG22	25:CZ:172:ARG:N	2.26	0.49
25:CZ:223:MET:HB3	25:CZ:242:ILE:HA	1.94	0.49
31:D5:55:ARG:HD3	31:D5:56:LYS:H	1.78	0.49
36:DA:973:A:O4'	36:DA:1188:U:C6	2.65	0.49
36:DA:1346:G:H2'	36:DA:1347:G:H8	1.77	0.49
36:DA:1713:U:O2'	36:DA:1714:G:H5'	2.13	0.49
36:DA:1861:G:O2'	36:DA:1862:G:H5'	2.12	0.49
36:DA:2120:G:N2	36:DA:2178:C:C2	2.81	0.49
36:DA:2149:G:C2'	36:DA:2150:U:H5'	2.43	0.49
36:DA:2197:U:O4	36:DA:2224:G:H2'	2.13	0.49
36:DA:2346:A:H5'	36:DA:2383:G:O4'	2.12	0.49
36:DA:2460:U:O2'	36:DA:2461:C:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2485:G:O2'	49:DQ:126:PRO:HA	2.12	0.49
36:DA:2839:G:H2'	36:DA:2840:C:C6	2.47	0.49
39:DD:44:ASN:CB	39:DD:48:ARG:O	2.60	0.49
39:DD:63:ARG:CG	39:DD:63:ARG:NH1	2.69	0.49
39:DD:92:ILE:HD13	39:DD:92:ILE:H	1.77	0.49
42:DG:83:ARG:HG3	42:DG:83:ARG:HH11	1.78	0.49
42:DG:145:THR:CG2	42:DG:147:ASP:OD1	2.61	0.49
46:DN:2:LYS:HZ1	54:DV:12:TYR:CA	2.26	0.49
47:DO:103:ALA:O	47:DO:106:LEU:HG	2.13	0.49
48:DP:100:LEU:CB	48:DP:106:LEU:HD13	2.41	0.49
49:DQ:92:GLY:C	49:DQ:93:TYR:CD1	2.90	0.49
50:DR:3:HIS:O	50:DR:5:LYS:N	2.46	0.49
57:DY:101:LYS:HG2	57:DY:102:CYS:N	2.28	0.49
58:DZ:17:ALA:HA	58:DZ:20:ARG:CD	2.39	0.49
58:DZ:29:TYR:N	58:DZ:88:PHE:O	2.46	0.49
1:AA:341:C:O2'	1:AA:342:C:H5'	2.12	0.49
1:AA:526:C:H2'	1:AA:527:G:C4'	2.43	0.49
1:AA:786:G:C2	1:AA:787:A:H1'	2.48	0.49
1:AA:929:G:O2'	1:AA:930:C:H5'	2.12	0.49
1:AA:1320:C:H5'	1:AA:1320:C:C6	2.48	0.49
2:AB:179:LYS:C	2:AB:181:PHE:H	2.20	0.49
4:AD:10:ARG:C	4:AD:11:LEU:HD23	2.38	0.49
4:AD:31:CYS:HG	60:AD:301:ZN:ZN	1.26	0.49
4:AD:59:ARG:HE	4:AD:59:ARG:HA	1.78	0.49
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.45	0.49
4:AD:119:GLN:HG3	4:AD:123:HIS:NE2	2.28	0.49
5:AE:10:MET:HG3	5:AE:13:ILE:HD11	1.95	0.49
5:AE:103:GLY:H	5:AE:106:PRO:HG3	1.77	0.49
7:AG:145:ALA:HA	7:AG:148:ASN:HD22	1.78	0.49
8:AH:6:ILE:HD12	8:AH:6:ILE:H	1.76	0.49
8:AH:17:THR:HB	8:AH:78:GLN:HE22	1.78	0.49
8:AH:38:ILE:O	8:AH:42:GLU:HG2	2.12	0.49
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.46	0.49
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.94	0.49
10:AJ:63:PHE:CD2	10:AJ:63:PHE:N	2.81	0.49
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.27	0.49
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.47	0.49
12:AL:41:ARG:HD2	12:AL:42:THR:O	2.12	0.49
17:AQ:37:LYS:O	17:AQ:38:ARG:HB2	2.12	0.49
19:AS:35:SER:C	19:AS:37:ARG:H	2.19	0.49
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:ND2	20:AT:26:ASN:H	2.10	0.49
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.12	0.49
22:AV:53:G:H2'	22:AV:54:U:C6	2.47	0.49
22:AW:16:U:H3'	22:AW:17:C:H5'	1.94	0.49
25:AZ:255:ILE:HG22	25:AZ:302:GLN:NE2	2.27	0.49
25:AZ:313:HIS:HB3	25:AZ:403:ILE:CG2	2.42	0.49
29:B3:35:ARG:HB2	29:B3:35:ARG:NH1	2.21	0.49
32:B6:19:ARG:NH2	36:BA:2401:U:OP1	2.46	0.49
36:BA:325:G:O2'	36:BA:326:G:H5'	2.13	0.49
36:BA:329:G:H22	57:BY:19:LYS:CE	2.18	0.49
36:BA:344:G:H3'	36:BA:344:G:P	2.52	0.49
36:BA:389:G:C6	48:BP:70:GLN:HG3	2.48	0.49
36:BA:444:C:H2'	36:BA:445:C:O5'	2.13	0.49
36:BA:695:G:C5	36:BA:768:G:C6	3.01	0.49
36:BA:1221:C:C2'	36:BA:1221(A):C:H6	2.26	0.49
36:BA:1376:C:H2'	36:BA:1377:G:H5'	1.95	0.49
36:BA:1386:C:H2'	36:BA:1387:C:H6	1.77	0.49
36:BA:1655:A:C2	36:BA:2049:G:H4'	2.48	0.49
36:BA:1794:U:O4'	36:BA:1900:A:C2	2.66	0.49
36:BA:2222:G:H1'	39:BD:148:GLU:OE2	2.13	0.49
36:BA:2475:C:H5'	36:BA:2476:A:OP2	2.13	0.49
40:BE:77:ILE:CG2	40:BE:78:LEU:H	2.03	0.49
40:BE:123:ALA:O	40:BE:125:GLY:N	2.44	0.49
41:BF:3:GLU:O	41:BF:19:GLU:CB	2.59	0.49
42:BG:47:LYS:NZ	42:BG:81:LYS:CB	2.76	0.49
43:BH:34:GLU:O	43:BH:36:PRO:HD3	2.11	0.49
49:BQ:61:GLY:O	58:BZ:177:PRO:HB3	2.12	0.49
51:BS:96:GLY:C	51:BS:98:VAL:N	2.69	0.49
52:BT:85:LYS:O	52:BT:86:ILE:C	2.56	0.49
54:BV:95:LEU:C	54:BV:95:LEU:CD2	2.86	0.49
58:BZ:10:ARG:HG2	58:BZ:11:GLU:N	2.28	0.49
58:BZ:123:ASP:O	58:BZ:124:ILE:HG23	2.12	0.49
58:BZ:127:LYS:HZ3	58:BZ:164:ALA:HB2	1.76	0.49
1:CA:187:C:O2	20:CT:104:LEU:HD23	2.12	0.49
1:CA:758:G:H8	1:CA:758:G:O5'	1.95	0.49
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.25	0.49
1:CA:1006:C:N4	1:CA:1024:G:H21	2.09	0.49
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.13	0.49
1:CA:1119:C:H2'	1:CA:1120:G:H8	1.72	0.49
1:CA:1325:C:H5'	21:CU:15:ARG:NE	2.27	0.49
2:CB:51:LEU:O	2:CB:52:GLU:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:20:TYR:CA	4:CD:26:CYS:HB3	2.42	0.49
4:CD:108:LEU:HG	4:CD:108:LEU:O	2.13	0.49
4:CD:119:GLN:NE2	4:CD:123:HIS:NE2	2.58	0.49
4:CD:171:GLY:O	4:CD:173:TRP:N	2.38	0.49
5:CE:12:LEU:C	5:CE:13:ILE:HG13	2.37	0.49
8:CH:40:ALA:HB2	8:CH:45:ILE:HG13	1.93	0.49
9:CI:56:LEU:O	9:CI:56:LEU:HD23	2.13	0.49
11:CK:23:ALA:HB3	11:CK:91:ARG:HG2	1.95	0.49
11:CK:64:ALA:O	11:CK:68:ALA:N	2.44	0.49
12:CL:83:VAL:CG1	12:CL:84:LEU:N	2.75	0.49
13:CM:19:LEU:H	13:CM:19:LEU:HD22	1.77	0.49
13:CM:86:CYS:O	13:CM:87:TYR:C	2.53	0.49
14:CN:24:CYS:N	14:CN:29:ARG:O	2.46	0.49
17:CQ:5:VAL:HG22	17:CQ:60:ILE:HA	1.94	0.49
18:CR:37:VAL:CG2	18:CR:38:GLU:N	2.76	0.49
22:CV:75:C:OP1	36:DA:2602:A:OP1	2.30	0.49
25:CZ:19:HIS:HB2	25:CZ:116:THR:OG1	2.13	0.49
25:CZ:234:ARG:HE	25:CZ:289:LEU:HD22	1.77	0.49
25:CZ:324:LYS:HA	25:CZ:365:GLY:N	2.27	0.49
28:D2:4:SER:O	28:D2:7:ARG:CD	2.61	0.49
32:D6:6:ARG:HB3	32:D6:6:ARG:CZ	2.43	0.49
33:D7:19:ARG:NH2	36:DA:124:G:C8	2.80	0.49
33:D7:36:GLN:C	33:D7:38:GLY:N	2.66	0.49
36:DA:67:U:H2'	36:DA:68:G:H8	1.78	0.49
36:DA:109:G:H2'	36:DA:110:G:H8	1.78	0.49
36:DA:146:G:H2'	36:DA:147:U:H5'	1.95	0.49
36:DA:237:C:H2'	36:DA:238:C:H6	1.78	0.49
36:DA:247:G:H1'	36:DA:251:A:H62	1.78	0.49
36:DA:445:C:C2'	36:DA:446:G:O4'	2.61	0.49
36:DA:986:C:O2'	36:DA:987:G:H5'	2.13	0.49
36:DA:1069:A:H1'	36:DA:1070:A:OP2	2.12	0.49
36:DA:1265:A:H8	36:DA:1265:A:OP1	1.95	0.49
36:DA:1636:C:O2	36:DA:1760:A:H2	1.96	0.49
36:DA:1856:G:O2'	36:DA:1857:G:H5'	2.12	0.49
36:DA:1884:A:H2'	36:DA:1885:A:O4'	2.13	0.49
36:DA:1988:C:C2'	36:DA:1989:G:H5'	2.42	0.49
36:DA:2117:A:H61	36:DA:2171:A:H61	1.60	0.49
36:DA:2246:G:H2'	36:DA:2247:A:H8	1.71	0.49
36:DA:2306:C:N4	36:DA:2311:A:C8	2.81	0.49
37:DB:105:A:H2'	37:DB:106:G:O4'	2.13	0.49
39:DD:249:PRO:HG2	39:DD:250:TRP:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:273:ARG:HH11	39:DD:273:ARG:CG	2.25	0.49
40:DE:167:VAL:O	40:DE:168:MET:O	2.30	0.49
41:DF:111:ALA:HA	41:DF:114:VAL:HB	1.93	0.49
42:DG:18:GLU:OE2	42:DG:21:ARG:CZ	2.60	0.49
43:DH:30:LYS:HE2	43:DH:30:LYS:CA	2.43	0.49
43:DH:65:HIS:CE1	43:DH:69:ARG:CZ	2.96	0.49
49:DQ:67:ARG:HB3	49:DQ:67:ARG:NH1	2.27	0.49
49:DQ:141:GLN:H	58:DZ:53:ILE:HD12	1.77	0.49
50:DR:36:THR:HB	50:DR:40:LYS:HD2	1.95	0.49
52:DT:8:LYS:HA	52:DT:11:GLU:OE1	2.12	0.49
58:DZ:108:PRO:HG2	58:DZ:111:VAL:CG2	2.42	0.49
1:AA:136:C:H2'	1:AA:137:C:C6	2.48	0.49
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	2.12	0.49
1:AA:368:U:P	25:AZ:291:ARG:HH11	2.36	0.49
1:AA:594:G:C2'	1:AA:595:G:H5'	2.42	0.49
1:AA:769:G:N1	1:AA:811:C:O2	2.45	0.49
1:AA:792:A:O2'	1:AA:793:U:OP2	2.31	0.49
1:AA:1003:G:O2'	1:AA:1004:A:H4'	2.11	0.49
3:AC:94:LEU:O	3:AC:94:LEU:CD1	2.60	0.49
3:AC:113:ALA:C	3:AC:115:LEU:N	2.70	0.49
5:AE:12:LEU:HD12	5:AE:31:LEU:HB3	1.95	0.49
6:AF:48:LEU:HD12	6:AF:57:GLN:N	2.28	0.49
7:AG:102:ARG:CG	7:AG:106:GLN:HE21	2.24	0.49
8:AH:17:THR:HB	8:AH:78:GLN:NE2	2.27	0.49
8:AH:123:GLU:O	8:AH:127:LEU:HB2	2.12	0.49
10:AJ:8:LEU:C	10:AJ:9:ARG:HG3	2.38	0.49
11:AK:77:MET:HG3	11:AK:78:GLN:N	2.28	0.49
13:AM:66:LEU:O	13:AM:67:GLU:O	2.30	0.49
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.94	0.49
14:AN:47:LEU:HB3	14:AN:53:LEU:HG	1.95	0.49
15:AO:12:ILE:O	15:AO:13:GLN:C	2.55	0.49
16:AP:44:THR:O	16:AP:45:THR:HB	2.13	0.49
16:AP:82:GLN:O	16:AP:83:GLU:HB2	2.12	0.49
17:AQ:56:VAL:HG23	17:AQ:81:ARG:HG3	1.92	0.49
19:AS:35:SER:C	19:AS:37:ARG:N	2.69	0.49
22:AV:17:C:H3'	22:AV:18:G:H5''	1.94	0.49
30:B4:5:ILE:O	30:B4:5:ILE:CG1	2.59	0.49
31:B5:56:LYS:HE2	31:B5:59:GLU:CD	2.38	0.49
34:B8:13:ARG:CB	48:BP:63:PRO:HA	2.43	0.49
34:B8:41:ILE:HG23	34:B8:42:ARG:H	1.77	0.49
35:B9:1:MET:HE3	35:B9:10:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:53:A:H62	36:BA:117:G:H21	1.59	0.49
36:BA:245:G:H22	36:BA:254:G:H1'	1.77	0.49
36:BA:345:A:N3	36:BA:347:A:N6	2.61	0.49
36:BA:598:G:H5'	48:BP:15:ARG:CB	2.42	0.49
36:BA:1275:A:C4	50:BR:16:HIS:ND1	2.81	0.49
36:BA:1710:C:H6	36:BA:1710:C:O5'	1.95	0.49
36:BA:1884:A:H2'	36:BA:1885:A:O4'	2.12	0.49
36:BA:1992:G:C4	36:BA:1997:G:O6	2.66	0.49
36:BA:2048:G:H5'	36:BA:2823:A:C2	2.48	0.49
36:BA:2228:G:C5	36:BA:2229:C:C4	3.01	0.49
36:BA:2377:A:O2'	36:BA:2378:A:H5'	2.13	0.49
36:BA:2402:C:O2'	36:BA:2403:C:H5'	2.12	0.49
36:BA:2507:C:H2'	36:BA:2508:G:O4'	2.13	0.49
38:BC:75:LEU:HD11	38:BC:113:VAL:HG13	1.95	0.49
39:BD:126:GLN:C	39:BD:193:VAL:HG11	2.35	0.49
39:BD:248:SER:HB2	39:BD:249:PRO:CD	2.42	0.49
39:BD:275:LYS:O	39:BD:276:LYS:HB2	2.12	0.49
40:BE:3:GLY:O	40:BE:4:ILE:CB	2.61	0.49
40:BE:77:ILE:CG2	40:BE:78:LEU:N	2.70	0.49
42:BG:15:VAL:HG12	42:BG:19:LEU:HD12	1.95	0.49
43:BH:105:LEU:H	43:BH:105:LEU:CD2	2.25	0.49
45:BK:58:UNK:O	45:BK:65:UNK:HA	2.13	0.49
47:BO:53:LYS:HD2	47:BO:53:LYS:N	2.28	0.49
49:BQ:62:GLY:O	58:BZ:177:PRO:HA	2.13	0.49
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.42	0.49
51:BS:104:GLY:C	51:BS:106:ARG:H	2.21	0.49
52:BT:38:ASN:ND2	52:BT:38:ASN:O	2.44	0.49
53:BU:90:VAL:HG21	54:BV:47:VAL:CG2	2.43	0.49
57:BY:2:ARG:O	57:BY:4:LYS:N	2.45	0.49
58:BZ:14:LYS:C	58:BZ:16:SER:H	2.21	0.49
1:CA:58:C:O2'	1:CA:388:G:N7	2.42	0.49
1:CA:192:U:C1'	20:CT:103:GLY:HA2	2.41	0.49
1:CA:229:U:O2'	16:CP:23:ASP:HB2	2.13	0.49
1:CA:236:G:C6	1:CA:237:C:C4	3.01	0.49
1:CA:1142:G:H2'	1:CA:1143:G:C5'	2.39	0.49
1:CA:1269:A:C2'	1:CA:1270:C:H5'	2.42	0.49
1:CA:1516:G:C6	1:CA:1520:G:N1	2.81	0.49
3:CC:140:ARG:HG3	3:CC:140:ARG:HH11	1.77	0.49
5:CE:67:VAL:HG22	5:CE:68:GLU:N	2.28	0.49
5:CE:82:VAL:O	5:CE:82:VAL:HG12	2.11	0.49
7:CG:103:TRP:O	7:CG:104:LEU:C	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.43	0.49
9:CI:80:GLY:C	9:CI:82:ALA:H	2.20	0.49
10:CJ:12:ASP:C	10:CJ:12:ASP:OD2	2.55	0.49
10:CJ:92:THR:CG2	10:CJ:93:GLY:H	2.23	0.49
12:CL:41:ARG:CD	12:CL:42:THR:H	2.26	0.49
12:CL:41:ARG:HD2	12:CL:42:THR:O	2.12	0.49
18:CR:64:ARG:O	18:CR:65:ILE:C	2.55	0.49
20:CT:100:ILE:O	20:CT:102:GLY:N	2.37	0.49
25:CZ:32:THR:OG1	25:CZ:33:TYR:N	2.46	0.49
26:D0:10:THR:HG22	26:D0:12:ASN:N	2.27	0.49
26:D0:20:ARG:H	26:D0:20:ARG:CD	2.20	0.49
26:D0:26:TYR:HB2	26:D0:29:GLN:OE1	2.10	0.49
27:D1:50:ARG:HD2	36:DA:2200:C:OP1	2.13	0.49
28:D2:2:LYS:NZ	28:D2:59:ARG:HH22	2.11	0.49
35:D9:1:MET:HE1	36:DA:2477:C:H6	1.78	0.49
36:DA:521:G:H2'	36:DA:522:G:C8	2.48	0.49
36:DA:568:U:O2'	36:DA:569:U:C5	2.65	0.49
36:DA:708:C:H42	36:DA:723:G:H1	1.60	0.49
36:DA:773:U:H5'	39:DD:47:GLY:HA2	1.93	0.49
36:DA:968:G:C6	36:DA:969:U:C4	3.01	0.49
36:DA:1168:G:O2'	36:DA:1169:G:H5'	2.12	0.49
36:DA:1423:G:H2'	36:DA:1424:G:H8	1.74	0.49
36:DA:1890:A:H2	36:DA:2235:G:O4'	1.94	0.49
36:DA:2298:A:H2'	36:DA:2299:G:O4'	2.13	0.49
36:DA:2422:A:C8	36:DA:2422:A:C3'	2.96	0.49
36:DA:2497:A:H8	36:DA:2497:A:OP2	1.95	0.49
36:DA:2532:G:H2'	36:DA:2533:A:C8	2.47	0.49
37:DB:42:C:H4'	42:DG:67:LYS:HG2	1.95	0.49
39:DD:80:ALA:HB3	39:DD:94:LEU:O	2.12	0.49
39:DD:92:ILE:HG13	39:DD:104:TYR:CD2	2.47	0.49
39:DD:145:VAL:HG12	39:DD:146:GLU:O	2.12	0.49
41:DF:31:HIS:CE1	41:DF:34:TRP:CE3	3.01	0.49
41:DF:65:TRP:HB3	41:DF:66:PRO:CD	2.43	0.49
41:DF:175:THR:C	41:DF:176:LEU:HD12	2.37	0.49
42:DG:41:GLN:HB3	42:DG:43:LEU:HD23	1.91	0.49
43:DH:105:LEU:HG	43:DH:105:LEU:O	2.13	0.49
46:DN:14:VAL:CG1	46:DN:137:LYS:HG3	2.42	0.49
50:DR:28:LEU:CA	50:DR:34:ILE:HG13	2.43	0.49
51:DS:36:TYR:O	51:DS:37:ALA:HB2	2.12	0.49
53:DU:80:ILE:O	53:DU:80:ILE:HG22	2.12	0.49
57:DY:37:VAL:CG2	57:DY:38:ILE:H	2.07	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.12	0.49
58:DZ:33:LEU:HD11	58:DZ:35:ARG:CG	2.43	0.49
58:DZ:56:VAL:C	58:DZ:57:ILE:HD12	2.36	0.49
58:DZ:153:SER:HB2	58:DZ:167:PRO:HB3	1.93	0.49
1:AA:110:C:C2'	1:AA:111:G:H5'	2.43	0.49
1:AA:260:G:O2'	1:AA:261:U:H5'	2.12	0.49
1:AA:585:G:C4'	12:AL:8:ASN:HD21	2.15	0.49
1:AA:682:G:C6	1:AA:683:G:N7	2.80	0.49
1:AA:778:G:H2'	1:AA:779:C:H6	1.78	0.49
1:AA:1069:C:H2'	1:AA:1070:U:O5'	2.12	0.49
1:AA:1508:G:H8	1:AA:1508:G:O5'	1.96	0.49
2:AB:19:HIS:O	2:AB:20:GLU:C	2.56	0.49
2:AB:60:ASP:CB	2:AB:64:ARG:HH21	2.25	0.49
2:AB:92:TYR:C	2:AB:92:TYR:HD1	2.20	0.49
2:AB:104:ASN:O	2:AB:105:PHE:C	2.55	0.49
3:AC:182:ILE:O	3:AC:183:ASP:C	2.55	0.49
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.41	0.49
6:AF:14:LEU:HD13	6:AF:15:ASP:N	2.28	0.49
6:AF:101:ALA:OXT	18:AR:28:GLU:HG2	2.13	0.49
9:AI:76:ALA:O	9:AI:77:ILE:C	2.56	0.49
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.41	0.49
13:AM:32:GLU:O	13:AM:34:LEU:N	2.46	0.49
25:AZ:317:GLU:HG3	25:AZ:404:LEU:CD2	2.40	0.49
28:B2:51:ARG:HG3	28:B2:52:ASP:N	2.28	0.49
36:BA:185:U:H2'	36:BA:186:G:C8	2.48	0.49
36:BA:479:A:H4'	36:BA:480:A:H5'	1.95	0.49
36:BA:589:C:H2'	36:BA:590:A:C8	2.48	0.49
36:BA:648:G:H2'	36:BA:649:G:C8	2.48	0.49
36:BA:1247:A:OP1	41:BF:95:ARG:NH2	2.46	0.49
36:BA:1322:A:H2'	36:BA:1323:U:C6	2.47	0.49
36:BA:1423:G:H2'	36:BA:1424:G:H8	1.76	0.49
36:BA:1542:A:H3'	36:BA:1542:A:C8	2.47	0.49
36:BA:2441:C:H2'	36:BA:2442:C:C6	2.39	0.49
36:BA:2713:A:H3'	36:BA:2714:G:C5'	2.43	0.49
36:BA:2745:C:O3'	43:BH:142:GLY:HA3	2.12	0.49
36:BA:2845:G:O2'	36:BA:2846:G:H5'	2.13	0.49
39:BD:25:THR:O	39:BD:27:THR:HG22	2.13	0.49
39:BD:101:GLU:CG	39:BD:102:LYS:N	2.75	0.49
39:BD:128:GLY:H	39:BD:193:VAL:HG13	1.77	0.49
39:BD:196:VAL:O	39:BD:196:VAL:CG1	2.60	0.49
42:BG:100:TRP:O	42:BG:101:ILE:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BJ:116:UNK:O	44:BJ:123:UNK:N	2.46	0.49
46:BN:30:ILE:O	46:BN:34:LEU:HB2	2.13	0.49
54:BV:47:VAL:O	54:BV:49:THR:O	2.31	0.49
57:BY:95:LYS:HE3	57:BY:100:ALA:CB	2.43	0.49
1:CA:356:A:H2'	1:CA:357:G:H8	1.77	0.49
1:CA:668:G:H2'	1:CA:669:U:C6	2.48	0.49
1:CA:862:C:O2'	1:CA:863:U:H5'	2.12	0.49
1:CA:874:G:C6	1:CA:875:C:C4	3.01	0.49
1:CA:1077:G:N2	1:CA:1079:G:H3'	2.28	0.49
1:CA:1085:U:H5'	1:CA:1094:G:N2	2.28	0.49
1:CA:1177:G:P	9:CI:97:LYS:HZ3	2.35	0.49
1:CA:1217:C:O2'	1:CA:1218:C:H5'	2.12	0.49
1:CA:1245:A:O2'	1:CA:1246:C:H5'	2.13	0.49
1:CA:1285:A:H1'	1:CA:1286:A:C8	2.47	0.49
1:CA:1286:A:O2'	1:CA:1287:A:C5'	2.61	0.49
1:CA:1464:G:O2'	1:CA:1465:C:H5'	2.13	0.49
2:CB:71:VAL:O	2:CB:164:VAL:HA	2.12	0.49
3:CC:157:ILE:HD13	3:CC:166:GLU:HB2	1.94	0.49
5:CE:136:MET:O	5:CE:137:GLU:C	2.56	0.49
5:CE:136:MET:C	5:CE:138:ALA:N	2.67	0.49
9:CI:93:ARG:HA	9:CI:96:LEU:HB3	1.94	0.49
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.43	0.49
14:CN:12:ARG:HB3	14:CN:14:PRO:CG	2.43	0.49
15:CO:12:ILE:O	15:CO:13:GLN:C	2.55	0.49
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.39	0.49
20:CT:37:SER:O	20:CT:41:ILE:HG12	2.12	0.49
22:CW:55:U:HO2'	22:CW:56:C:H6	1.55	0.49
25:CZ:226:GLU:CD	25:CZ:240:GLY:HA2	2.38	0.49
25:CZ:263:ARG:HH21	25:CZ:297:GLU:CB	2.26	0.49
26:D0:37:LEU:HG	26:D0:59:LEU:C	2.38	0.49
28:D2:24:LEU:HD23	28:D2:24:LEU:C	2.37	0.49
28:D2:30:ARG:O	28:D2:34:GLU:HB2	2.12	0.49
29:D3:14:GLY:O	36:DA:969:U:H4'	2.13	0.49
33:D7:29:LYS:HE3	36:DA:210:C:OP2	2.13	0.49
36:DA:25:U:H2'	36:DA:26:G:O4'	2.12	0.49
36:DA:182:A:C6	36:DA:183:C:C4	3.01	0.49
36:DA:216:A:C2'	36:DA:217:G:H5'	2.43	0.49
36:DA:218:A:C2'	36:DA:219:G:H5'	2.43	0.49
36:DA:230:U:O2'	36:DA:231:C:H5'	2.13	0.49
36:DA:716:A:C3'	36:DA:717:G:H5''	2.42	0.49
36:DA:784:A:C6	39:DD:229:VAL:HG11	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:910:A:N6	49:DQ:11:LYS:O	2.46	0.49
36:DA:1060:U:H1'	36:DA:1061:U:H5''	1.94	0.49
36:DA:1217:C:C2	36:DA:1218:C:C5	3.01	0.49
36:DA:1222:C:C3'	36:DA:1223:G:H5''	2.43	0.49
36:DA:1328:G:H4'	36:DA:1329:U:H5	1.78	0.49
36:DA:1416:G:O2'	36:DA:1417:C:H5	1.95	0.49
36:DA:1429:G:H2'	36:DA:1430:C:H6	1.78	0.49
36:DA:1666:G:O3'	47:DO:6:THR:HG23	2.13	0.49
36:DA:1669:A:OP2	36:DA:1670:C:OP2	2.30	0.49
36:DA:1799:G:H5'	36:DA:1819:A:N6	2.28	0.49
36:DA:2373:G:H2'	36:DA:2374:C:C6	2.48	0.49
36:DA:2689:U:H4'	36:DA:2690:C:OP2	2.12	0.49
36:DA:2690:C:H4'	36:DA:2872:G:H21	1.78	0.49
36:DA:2713:A:H3'	36:DA:2714:G:H5'	1.93	0.49
36:DA:2770:G:H5'	36:DA:2771:C:OP2	2.13	0.49
36:DA:2792:G:O2'	36:DA:2793:G:H5'	2.12	0.49
37:DB:105:A:H4'	58:DZ:89:PHE:CD2	2.47	0.49
38:DC:66:HIS:CG	38:DC:184:LYS:HD2	2.47	0.49
38:DC:181:PRO:HB2	38:DC:183:GLU:OE2	2.12	0.49
40:DE:69:LYS:C	40:DE:71:GLY:H	2.19	0.49
40:DE:195:LEU:HD11	40:DE:197:ILE:CG2	2.42	0.49
41:DF:51:THR:CG2	41:DF:92:PRO:HD2	2.43	0.49
42:DG:138:GLN:HA	42:DG:155:MET:CE	2.42	0.49
49:DQ:6:ARG:C	49:DQ:7:MET:HG3	2.37	0.49
51:DS:14:VAL:O	51:DS:15:ARG:C	2.54	0.49
53:DU:47:TYR:HA	53:DU:50:ARG:HB2	1.95	0.49
54:DV:43:GLU:O	54:DV:44:LYS:HB2	2.12	0.49
56:DX:43:VAL:O	56:DX:47:PHE:HB2	2.13	0.49
56:DX:54:VAL:O	56:DX:55:ASN:ND2	2.40	0.49
56:DX:74:PRO:O	56:DX:76:ARG:HD2	2.13	0.49
57:DY:17:SER:CB	57:DY:71:LYS:HD2	2.42	0.49
57:DY:28:LYS:O	57:DY:38:ILE:HG22	2.13	0.49
1:AA:10:A:N7	5:AE:126:ARG:NH1	2.61	0.49
1:AA:59:A:C2	1:AA:331:G:N3	2.81	0.49
1:AA:64:G:H5''	1:AA:65:U:OP1	2.13	0.49
1:AA:356:A:H2'	1:AA:357:G:C8	2.48	0.49
1:AA:495:A:H1'	1:AA:496:A:C8	2.47	0.49
1:AA:660:G:H2'	1:AA:661:G:C8	2.43	0.49
1:AA:750:G:H21	15:AO:24:SER:H	1.59	0.49
1:AA:837:G:C2'	1:AA:838:G:H5'	2.42	0.49
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.13	0.49
1:AA:1298:C:OP2	7:AG:114:ARG:NH2	2.46	0.49
1:AA:1363(A):A:H1'	1:AA:1365:G:N7	2.27	0.49
1:AA:1367:C:H5'	10:AJ:60:ARG:CZ	2.42	0.49
1:AA:1493:A:C2	24:AY:37:YG:O4'	2.65	0.49
1:AA:1497:G:O2'	1:AA:1518:A:N1	2.45	0.49
1:AA:1519:A:H5''	1:AA:1520:G:C8	2.48	0.49
2:AB:154:LEU:HD23	2:AB:156:LYS:HZ1	1.78	0.49
2:AB:207:ALA:O	2:AB:208:ILE:C	2.56	0.49
3:AC:35:GLU:O	3:AC:37:GLN:N	2.46	0.49
3:AC:134:ILE:HG21	3:AC:168:ALA:HB3	1.94	0.49
4:AD:65:ARG:HD2	4:AD:72:GLU:N	2.27	0.49
4:AD:70:ILE:CG2	4:AD:74:GLN:HB2	2.42	0.49
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.13	0.49
9:AI:6:GLY:CA	9:AI:84:ALA:HB2	2.42	0.49
10:AJ:92:THR:CG2	10:AJ:93:GLY:H	2.25	0.49
11:AK:114:VAL:HG23	11:AK:115:PRO:HD2	1.95	0.49
13:AM:29:ARG:HA	13:AM:32:GLU:OE2	2.13	0.49
14:AN:59:ALA:O	14:AN:60:SER:CB	2.61	0.49
15:AO:25:THR:O	15:AO:26:GLU:C	2.55	0.49
22:AV:12:U:H5''	36:BA:1908:C:O2'	2.13	0.49
22:AV:50:U:C2'	22:AV:51:U:H5'	2.43	0.49
25:AZ:25:THR:OG1	62:AZ:501:GDP:O2B	2.30	0.49
25:AZ:267:VAL:CG2	25:AZ:288:VAL:HG13	2.43	0.49
27:B1:87:PRO:CA	27:B1:90:ILE:HG12	2.32	0.49
27:B1:88:LYS:NZ	27:B1:92:LYS:HE3	2.28	0.49
28:B2:24:LEU:HD22	28:B2:25:VAL:HG23	1.94	0.49
32:B6:32:ASN:O	32:B6:33:LYS:CB	2.60	0.49
36:BA:26:G:H1'	36:BA:515:A:H61	1.78	0.49
36:BA:116:C:O2	36:BA:126:A:H2	1.96	0.49
36:BA:153:C:H2'	36:BA:154:G:H8	1.78	0.49
36:BA:201:C:C2'	36:BA:202:U:H5'	2.42	0.49
36:BA:391:G:O5'	36:BA:391:G:C8	2.65	0.49
36:BA:437:G:O2'	36:BA:438:G:H5'	2.13	0.49
36:BA:629:G:H5'	36:BA:629:G:H8	1.78	0.49
36:BA:654(P):C:H2'	36:BA:654(Q):C:O4'	2.12	0.49
36:BA:755:C:H2'	36:BA:756:C:H6	1.77	0.49
36:BA:1131:G:C2	46:BN:75:TYR:CB	2.96	0.49
36:BA:1328:G:H2'	36:BA:1330:C:C5	2.48	0.49
36:BA:1503:U:H2'	36:BA:1504:C:C5	2.48	0.49
36:BA:1525:G:O2'	36:BA:1526:G:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1651:G:N2	36:BA:1652:A:H1'	2.27	0.49
36:BA:1657:C:OP1	40:BE:136:ARG:HB2	2.13	0.49
36:BA:1770:G:O2'	36:BA:1771:C:H5'	2.12	0.49
36:BA:2186:G:C2	36:BA:2187:G:C6	3.01	0.49
36:BA:2236:C:H2'	36:BA:2237:G:O4'	2.13	0.49
36:BA:2271:G:O2'	36:BA:2272:U:H5'	2.13	0.49
36:BA:2488:A:O2'	36:BA:2489:G:H5'	2.12	0.49
38:BC:189:ILE:HG22	38:BC:190:ARG:N	2.28	0.49
39:BD:79:VAL:CG1	39:BD:113:VAL:HA	2.43	0.49
39:BD:136:ILE:CG2	39:BD:140:THR:OG1	2.61	0.49
39:BD:158:ALA:O	39:BD:159:ALA:C	2.55	0.49
40:BE:95:ILE:H	40:BE:95:ILE:CD1	2.25	0.49
40:BE:126:PRO:C	40:BE:128:SER:N	2.71	0.49
41:BF:8:GLN:HB3	41:BF:126:VAL:HA	1.95	0.49
41:BF:170:LEU:HB3	41:BF:173:VAL:HG23	1.95	0.49
49:BQ:67:ARG:HB3	49:BQ:67:ARG:NH1	2.28	0.49
50:BR:4:LEU:HD12	50:BR:6:SER:O	2.13	0.49
50:BR:67:LEU:CD2	50:BR:76:VAL:HG21	2.42	0.49
55:BW:12:ILE:O	55:BW:13:SER:C	2.54	0.49
57:BY:15:VAL:HB	57:BY:20:TYR:O	2.13	0.49
58:BZ:74:VAL:O	58:BZ:75:ASN:C	2.55	0.49
58:BZ:132:ASN:C	58:BZ:134:PRO:HD3	2.38	0.49
1:CA:234:C:O2'	1:CA:235:C:H5'	2.13	0.49
1:CA:507:C:C6	1:CA:508:C:C5	3.01	0.49
1:CA:517:G:N2	1:CA:533:A:OP2	2.44	0.49
1:CA:748:C:HO2'	1:CA:749:C:P	2.35	0.49
1:CA:945:G:O2'	1:CA:946:A:H5'	2.12	0.49
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.13	0.49
1:CA:1508:G:C5	1:CA:1509:C:C5	3.01	0.49
2:CB:114:ARG:HH11	2:CB:118:LEU:HD21	1.77	0.49
2:CB:179:LYS:CA	8:CH:72:PRO:HD3	2.41	0.49
2:CB:200:ILE:HG22	2:CB:202:PRO:CD	2.43	0.49
4:CD:10:ARG:C	4:CD:11:LEU:HD23	2.37	0.49
4:CD:58:LEU:O	4:CD:62:GLN:HG2	2.13	0.49
8:CH:41:ARG:C	8:CH:43:GLY:H	2.21	0.49
8:CH:125:ARG:HG3	8:CH:125:ARG:HH11	1.77	0.49
10:CJ:35:SER:O	10:CJ:36:GLY:C	2.56	0.49
13:CM:14:ARG:HB2	13:CM:17:VAL:CG2	2.43	0.49
15:CO:5:LYS:C	15:CO:6:GLU:HG3	2.37	0.49
15:CO:76:GLU:C	15:CO:78:TYR:H	2.21	0.49
20:CT:57:ARG:NH1	20:CT:57:ARG:CB	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:5:G:H2'	22:CV:6:G:H8	1.78	0.49
22:CV:50:U:C2'	22:CV:51:U:H5'	2.42	0.49
24:CY:51:C:H2'	24:CY:52:A:H8	1.78	0.49
24:CY:61:C:C3'	24:CY:62:U:H5''	2.40	0.49
25:CZ:257:GLY:HA3	25:CZ:302:GLN:HG2	1.95	0.49
25:CZ:368:VAL:HG12	25:CZ:369:THR:N	2.18	0.49
26:D0:51:VAL:HG21	26:D0:79:VAL:O	2.12	0.49
29:D3:15:TYR:OH	37:DB:84:C:OP1	2.26	0.49
29:D3:17:LYS:HG2	36:DA:969:U:OP1	2.12	0.49
30:D4:16:CYS:HA	30:D4:33:VAL:HG12	1.93	0.49
36:DA:197:A:H4'	36:DA:2069:G:OP1	2.12	0.49
36:DA:533:G:H5'	53:DU:24:TYR:CE2	2.48	0.49
36:DA:580:C:O2'	36:DA:581:C:H5'	2.12	0.49
36:DA:892:G:H2'	36:DA:893:C:C6	2.47	0.49
36:DA:1091:G:H2'	36:DA:1092:C:C6	2.48	0.49
36:DA:1627:G:H2'	36:DA:1628:G:H8	1.78	0.49
36:DA:1763:G:H2'	36:DA:1764:G:H5'	1.94	0.49
36:DA:1764:G:C6	36:DA:1989:G:C2	3.01	0.49
36:DA:2023:G:O2'	36:DA:2024:G:H5'	2.13	0.49
36:DA:2122:U:O2	38:DC:172:HIS:NE2	2.45	0.49
36:DA:2261:C:H1'	36:DA:2388:A:H1'	1.95	0.49
36:DA:2284:C:H42	36:DA:2384:G:H1	1.59	0.49
38:DC:58:VAL:HG22	38:DC:201:PRO:HG2	1.94	0.49
38:DC:83:ILE:HG23	38:DC:95:GLY:HA3	1.95	0.49
40:DE:3:GLY:O	40:DE:4:ILE:CB	2.61	0.49
40:DE:69:LYS:HD3	40:DE:89:ASP:HA	1.95	0.49
41:DF:25:PRO:HB3	41:DF:119:ARG:HA	1.95	0.49
42:DG:33:ARG:C	42:DG:161:THR:HB	2.38	0.49
47:DO:72:PRO:O	47:DO:74:GLY:N	2.45	0.49
48:DP:58:THR:C	48:DP:61:ARG:HE	2.16	0.49
50:DR:17:ARG:NH1	50:DR:17:ARG:HB3	2.28	0.49
52:DT:61:PHE:N	52:DT:61:PHE:CD2	2.80	0.49
53:DU:28:ARG:O	53:DU:35:ALA:HA	2.12	0.49
57:DY:96:ILE:CD1	57:DY:99:CYS:SG	3.01	0.49
1:AA:66:G:H8	1:AA:66:G:O5'	1.95	0.48
1:AA:148:G:H2'	1:AA:149:A:C8	2.48	0.48
1:AA:407:G:OP1	4:AD:115:ARG:CZ	2.61	0.48
1:AA:530:G:O2'	24:AY:35:G:C4'	2.59	0.48
1:AA:544:G:OP2	4:AD:66:ARG:NH2	2.46	0.48
1:AA:745:C:O2'	1:AA:746:A:H5'	2.13	0.48
1:AA:1152:A:C4	1:AA:1153:C:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1217:C:P	14:AN:9:LYS:HZ1	2.36	0.48
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.42	0.48
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.78	0.48
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.53	0.48
1:AA:1383:C:O2'	1:AA:1384:C:H5'	2.12	0.48
3:AC:140:ARG:HG3	3:AC:140:ARG:HH11	1.78	0.48
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.12	0.48
5:AE:136:MET:C	5:AE:138:ALA:N	2.69	0.48
11:AK:123:LYS:O	11:AK:126:ARG:HB3	2.13	0.48
14:AN:24:CYS:N	14:AN:29:ARG:O	2.46	0.48
14:AN:51:GLY:O	14:AN:53:LEU:N	2.46	0.48
16:AP:9:PHE:HE2	16:AP:18:ARG:HD2	1.78	0.48
25:AZ:29:ALA:HB3	25:AZ:179:LEU:HD22	1.95	0.48
36:BA:6:A:O2'	46:BN:130:HIS:CB	2.56	0.48
36:BA:307:G:H8	36:BA:307:G:O5'	1.95	0.48
36:BA:391:G:C5	36:BA:392:C:C5	3.01	0.48
36:BA:684:G:H2'	36:BA:774:A:H61	1.78	0.48
36:BA:797:C:OP2	41:BF:62:ARG:HG3	2.13	0.48
36:BA:1054:A:H2'	36:BA:1054:A:N3	2.28	0.48
36:BA:2131:G:H5''	36:BA:2132:U:O5'	2.12	0.48
36:BA:2312:U:C2'	36:BA:2313:C:C5'	2.90	0.48
36:BA:2422:A:C8	36:BA:2422:A:C3'	2.96	0.48
36:BA:2518:A:O2'	36:BA:2519:U:H5'	2.12	0.48
36:BA:2530:A:C3'	36:BA:2531:A:H5''	2.42	0.48
36:BA:2554:U:H2'	36:BA:2555:U:H6	1.78	0.48
38:BC:100:ILE:CG2	38:BC:126:LYS:HB3	2.33	0.48
39:BD:85:ASP:CG	39:BD:88:ARG:HH11	2.21	0.48
39:BD:161:THR:H	39:BD:196:VAL:HB	1.78	0.48
40:BE:195:LEU:HD11	40:BE:197:ILE:HG22	1.94	0.48
42:BG:9:ARG:HB3	42:BG:9:ARG:HH11	1.76	0.48
43:BH:41:MET:HA	43:BH:55:PRO:HD3	1.96	0.48
43:BH:46:GLU:HB3	43:BH:50:VAL:HG13	1.94	0.48
43:BH:89:ILE:HG22	43:BH:162:ILE:HG13	1.95	0.48
46:BN:21:LYS:HE3	46:BN:25:ARG:HB2	1.95	0.48
46:BN:38:HIS:O	53:BU:67:ALA:HB1	2.13	0.48
46:BN:39:ARG:HE	46:BN:41:ASP:HB3	1.76	0.48
46:BN:131:GLN:NE2	46:BN:133:GLN:CA	2.76	0.48
47:BO:77:ILE:HD11	52:BT:72:VAL:HG12	1.95	0.48
51:BS:29:PHE:HD2	51:BS:29:PHE:C	2.20	0.48
55:BW:12:ILE:CG1	55:BW:42:ARG:NH1	2.76	0.48
57:BY:7:VAL:CB	57:BY:8:LYS:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:341:C:O2'	1:CA:342:C:H5'	2.13	0.48
1:CA:521:G:OP1	12:CL:73:GLU:HA	2.13	0.48
1:CA:940:C:H2'	1:CA:941:G:C8	2.47	0.48
1:CA:1096:C:N4	1:CA:1097:C:N4	2.60	0.48
1:CA:1190:G:OP2	3:CC:5:ILE:HG23	2.13	0.48
2:CB:19:HIS:NE2	2:CB:206:ASP:HB2	2.28	0.48
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.43	0.48
2:CB:178:ARG:HH12	8:CH:74:PRO:HD3	1.78	0.48
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	2.13	0.48
6:CF:97:PHE:HD2	18:CR:31:LEU:HD21	1.78	0.48
7:CG:71:PRO:HA	7:CG:142:GLU:OE1	2.13	0.48
7:CG:91:VAL:O	7:CG:92:SER:C	2.56	0.48
11:CK:80:VAL:HG22	11:CK:104:GLN:O	2.12	0.48
12:CL:41:ARG:NH1	12:CL:57:LYS:NZ	2.61	0.48
13:CM:14:ARG:HG2	13:CM:42:ALA:O	2.13	0.48
13:CM:66:LEU:O	13:CM:67:GLU:O	2.31	0.48
14:CN:19:ARG:O	14:CN:20:ALA:C	2.56	0.48
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.11	0.48
16:CP:5:ARG:NH2	16:CP:24:ALA:O	2.46	0.48
16:CP:14:ASN:HA	16:CP:42:ARG:CZ	2.43	0.48
19:CS:16:LEU:C	19:CS:19:VAL:H	2.21	0.48
19:CS:28:LYS:HE2	19:CS:29:ARG:CZ	2.42	0.48
25:CZ:318:ALA:HB2	25:CZ:400:VAL:HA	1.94	0.48
27:D1:12:PRO:HB3	27:D1:43:TYR:HA	1.95	0.48
32:D6:39:TYR:O	32:D6:47:THR:O	2.31	0.48
35:D9:1:MET:HA	35:D9:4:ARG:CZ	2.43	0.48
36:DA:269:U:O2	36:DA:269:U:C2'	2.57	0.48
36:DA:345:A:N3	36:DA:347:A:N6	2.61	0.48
36:DA:456:C:C2	56:DX:69:TYR:HE2	2.31	0.48
36:DA:1028:A:H61	36:DA:1125:G:H2'	1.77	0.48
36:DA:1469:A:H2'	36:DA:1470:G:O4'	2.13	0.48
36:DA:1558:A:C5	36:DA:1560:G:C8	3.01	0.48
36:DA:1645:G:H5''	36:DA:1646:C:H5'	1.93	0.48
36:DA:1710:C:O5'	36:DA:1710:C:H6	1.96	0.48
36:DA:2110:G:O2'	36:DA:2120:G:OP2	2.30	0.48
36:DA:2240:C:HO2'	36:DA:2241:A:H5'	1.76	0.48
36:DA:2649:U:H2'	36:DA:2650:U:C6	2.48	0.48
38:DC:108:MET:O	38:DC:109:ASP:O	2.31	0.48
40:DE:3:GLY:HA3	40:DE:81:ILE:HD12	1.96	0.48
41:DF:133:ASN:HB2	41:DF:138:GLU:OE2	2.13	0.48
42:DG:161:THR:C	42:DG:163:ALA:N	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:149:ARG:HA	43:DH:162:ILE:HG23	1.94	0.48
47:DO:119:PRO:HB2	52:DT:68:TYR:CE2	2.47	0.48
49:DQ:33:GLY:O	49:DQ:131:ILE:HA	2.12	0.48
49:DQ:78:PRO:O	49:DQ:79:LEU:C	2.55	0.48
50:DR:17:ARG:O	50:DR:20:LEU:HB3	2.13	0.48
50:DR:24:GLN:O	50:DR:25:ALA:C	2.54	0.48
51:DS:88:ASP:O	51:DS:89:ARG:HB3	2.12	0.48
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.43	0.48
53:DU:85:LYS:HD2	53:DU:117:GLN:HE22	1.78	0.48
53:DU:92:ARG:NH2	54:DV:10:LYS:CB	2.76	0.48
55:DW:68:ARG:O	55:DW:110:LYS:N	2.46	0.48
57:DY:36:ALA:HA	57:DY:67:LEU:O	2.13	0.48
58:DZ:5:LEU:C	58:DZ:6:LYS:HD3	2.37	0.48
58:DZ:50:GLN:O	58:DZ:52:SER:N	2.46	0.48
1:AA:36:C:H2'	1:AA:37:U:C6	2.48	0.48
1:AA:112:G:H4'	1:AA:389:A:H4'	1.95	0.48
1:AA:154:C:H2'	1:AA:155:C:H6	1.78	0.48
1:AA:542:G:H2'	1:AA:543:C:C6	2.48	0.48
1:AA:1006:C:N4	1:AA:1024:G:H21	2.11	0.48
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.47	0.48
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.60	0.48
1:AA:1371:G:OP1	9:AI:11:LYS:HE3	2.13	0.48
59:AA:1601:PAR:O43	59:AA:1601:PAR:H11	2.13	0.48
2:AB:69:LEU:HD12	2:AB:71:VAL:CG2	2.39	0.48
2:AB:86:GLU:C	2:AB:88:ALA:H	2.21	0.48
2:AB:170:GLU:CA	2:AB:172:ILE:HD12	2.42	0.48
3:AC:120:VAL:HG12	3:AC:198:VAL:HG21	1.95	0.48
4:AD:127:THR:CG2	4:AD:130:GLY:O	2.61	0.48
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.95	0.48
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.12	0.48
18:AR:53:ARG:CZ	18:AR:59:SER:HA	2.43	0.48
24:AY:55:PSU:O4	24:AY:55:PSU:H5''	2.13	0.48
24:AY:76:A:N6	25:AZ:234:ARG:HG3	2.28	0.48
25:AZ:27:LEU:HD23	25:AZ:105:VAL:CG2	2.42	0.48
27:B1:82:LEU:C	27:B1:83:GLU:CG	2.85	0.48
28:B2:59:ARG:HB3	36:BA:76:C:O3'	2.13	0.48
29:B3:2:PRO:O	29:B3:3:ARG:C	2.56	0.48
31:B5:17:ASP:HB2	36:BA:16:G:H5''	1.94	0.48
33:B7:36:GLN:O	33:B7:38:GLY:N	2.46	0.48
34:B8:59:LYS:CE	48:BP:50:ARG:HB3	2.42	0.48
36:BA:551:G:O2'	36:BA:1220:A:N3	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:752:A:O2'	36:BA:753:C:OP2	2.27	0.48
36:BA:1059:G:H21	45:BK:126:UNK:HA	1.77	0.48
36:BA:1184:G:H2'	36:BA:1185:C:H5'	1.95	0.48
36:BA:1370:C:C2	36:BA:1371:G:C8	3.01	0.48
36:BA:2123:G:O6	36:BA:2175:C:N4	2.46	0.48
36:BA:2261:C:H1'	36:BA:2388:A:H1'	1.95	0.48
36:BA:2832:U:H4'	36:BA:2833:G:H5''	1.94	0.48
38:BC:147:PHE:O	38:BC:149:ILE:N	2.46	0.48
39:BD:131:LEU:HA	39:BD:190:TYR:CE2	2.49	0.48
40:BE:68:ALA:C	40:BE:70:ALA:H	2.21	0.48
40:BE:109:LYS:O	40:BE:161:GLY:HA3	2.13	0.48
40:BE:149:ARG:HG3	40:BE:149:ARG:NH1	2.27	0.48
41:BF:8:GLN:O	41:BF:10:PRO:HD3	2.13	0.48
41:BF:70:THR:CG2	41:BF:72:ARG:HG2	2.43	0.48
42:BG:138:GLN:C	42:BG:140:ILE:H	2.20	0.48
43:BH:59:ARG:HA	43:BH:62:LYS:HB2	1.96	0.48
45:BK:73:UNK:O	45:BK:76:UNK:N	2.46	0.48
46:BN:1:MET:C	46:BN:1:MET:SD	2.96	0.48
47:BO:2:ILE:CD1	47:BO:6:THR:HG21	2.43	0.48
47:BO:17:ARG:O	47:BO:18:LYS:CB	2.61	0.48
50:BR:38:VAL:O	50:BR:41:ALA:HB3	2.13	0.48
53:BU:85:LYS:CD	53:BU:117:GLN:HE22	2.25	0.48
56:BX:12:VAL:HA	56:BX:27:THR:O	2.13	0.48
57:BY:36:ALA:HA	57:BY:67:LEU:O	2.13	0.48
58:BZ:86:VAL:C	58:BZ:87:ASP:OD1	2.56	0.48
1:CA:662:G:H2'	1:CA:663:A:C8	2.44	0.48
1:CA:709:G:H2'	1:CA:710:G:C8	2.46	0.48
1:CA:714:G:H2'	1:CA:715:A:C8	2.48	0.48
1:CA:908:A:O2'	1:CA:909:A:H5'	2.14	0.48
1:CA:954:G:H21	1:CA:1227:A:N6	2.12	0.48
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.90	0.48
1:CA:1055:A:N7	1:CA:1206:G:C2	2.81	0.48
1:CA:1490:C:N3	1:CA:1491:G:N7	2.61	0.48
2:CB:24:TRP:HZ3	2:CB:26:PRO:HA	1.72	0.48
2:CB:219:VAL:C	2:CB:222:ILE:HG12	2.38	0.48
3:CC:68:VAL:O	3:CC:103:VAL:HA	2.13	0.48
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	1.95	0.48
4:CD:150:GLU:CD	4:CD:151:LYS:N	2.70	0.48
5:CE:135:THR:O	5:CE:136:MET:C	2.56	0.48
7:CG:27:ILE:O	7:CG:28:ASN:C	2.56	0.48
9:CI:99:LEU:C	9:CI:101:PHE:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.35	0.48
14:CN:47:LEU:HB3	14:CN:53:LEU:HG	1.94	0.48
14:CN:51:GLY:O	14:CN:53:LEU:N	2.46	0.48
15:CO:4:THR:C	15:CO:6:GLU:N	2.71	0.48
16:CP:21:VAL:C	16:CP:22:THR:HG22	2.38	0.48
17:CQ:27:PHE:CD1	17:CQ:27:PHE:C	2.91	0.48
19:CS:51:VAL:HG23	19:CS:60:VAL:CG1	2.37	0.48
25:CZ:27:LEU:HD23	25:CZ:105:VAL:CG2	2.43	0.48
25:CZ:137:LYS:O	25:CZ:138:VAL:C	2.55	0.48
25:CZ:163:PHE:C	25:CZ:165:GLY:H	2.20	0.48
25:CZ:241:ARG:HB2	25:CZ:285:ASN:ND2	2.22	0.48
25:CZ:306:LYS:O	25:CZ:308:GLY:N	2.46	0.48
25:CZ:371:THR:HG22	25:CZ:372:VAL:N	2.28	0.48
27:D1:53:VAL:O	27:D1:55:GLY:N	2.34	0.48
28:D2:2:LYS:HB2	36:DA:97:C:OP1	2.14	0.48
29:D3:7:LYS:C	29:D3:54:VAL:HG13	2.37	0.48
31:D5:16:ARG:HH11	31:D5:16:ARG:HG2	1.77	0.48
31:D5:43:HIS:N	31:D5:43:HIS:CD2	2.80	0.48
32:D6:5:VAL:CG2	36:DA:2283:C:H5'	2.43	0.48
35:D9:1:MET:SD	36:DA:2477:C:C3'	3.01	0.48
36:DA:733:G:C6	36:DA:761:A:C5	3.02	0.48
36:DA:736:C:O2'	36:DA:737:C:H5'	2.12	0.48
36:DA:1516:C:H2'	36:DA:1517:G:C5'	2.25	0.48
36:DA:1518:U:C2	36:DA:1519:G:H1'	2.48	0.48
36:DA:1657:C:C2'	36:DA:1658:C:H5'	2.43	0.48
36:DA:1856:G:H2'	36:DA:1857:G:H5'	1.96	0.48
36:DA:2115:G:N3	36:DA:2117:A:N7	2.61	0.48
36:DA:2377:A:O2'	36:DA:2378:A:H5'	2.13	0.48
36:DA:2514:U:H2'	36:DA:2515:C:H6	1.76	0.48
36:DA:2710:C:C2'	36:DA:2711:A:H5'	2.43	0.48
36:DA:2761:G:H2'	36:DA:2762:G:C5'	2.13	0.48
37:DB:75:G:N2	58:DZ:87:ASP:OD2	2.46	0.48
39:DD:101:GLU:CG	39:DD:102:LYS:N	2.76	0.48
39:DD:147:LEU:HD21	39:DD:183:ARG:NH1	2.27	0.48
39:DD:158:ALA:C	39:DD:196:VAL:HG11	2.38	0.48
41:DF:111:ALA:O	41:DF:114:VAL:HB	2.13	0.48
41:DF:188:ARG:HB3	48:DP:7:ARG:HD3	1.96	0.48
42:DG:32:PRO:C	42:DG:33:ARG:HG3	2.38	0.48
42:DG:91:ARG:HD2	42:DG:91:ARG:C	2.38	0.48
43:DH:105:LEU:H	43:DH:105:LEU:CD2	2.26	0.48
45:DK:73:UNK:O	45:DK:74:UNK:C	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:103:VAL:O	46:DN:106:MET:N	2.46	0.48
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.38	0.48
47:DO:120:GLU:OE1	47:DO:122:LEU:HD11	2.13	0.48
48:DP:16:ARG:NH1	48:DP:16:ARG:O	2.43	0.48
49:DQ:45:GLN:HG2	49:DQ:46:GLN:H	1.78	0.48
50:DR:6:SER:OG	50:DR:8:ARG:NH2	2.47	0.48
51:DS:12:PHE:CD2	51:DS:12:PHE:N	2.81	0.48
52:DT:78:LEU:H	52:DT:82:LEU:HD21	1.78	0.48
52:DT:85:LYS:O	52:DT:86:ILE:C	2.56	0.48
58:DZ:158:PRO:HB2	58:DZ:161:VAL:HG23	1.95	0.48
1:AA:22:G:O2'	1:AA:913:A:N1	2.40	0.48
1:AA:375:U:H4'	16:AP:17:TYR:HE2	1.78	0.48
1:AA:578:C:H2'	1:AA:579:G:H8	1.78	0.48
1:AA:692:U:O4	11:AK:53:SER:HA	2.13	0.48
1:AA:786:G:H2'	1:AA:787:A:O4'	2.14	0.48
1:AA:792:A:O2'	1:AA:793:U:P	2.71	0.48
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.43	0.48
1:AA:1173:G:H2'	1:AA:1174:G:C8	2.48	0.48
1:AA:1190:G:OP2	3:AC:5:ILE:HG23	2.13	0.48
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.48	0.48
1:AA:1395:C:O5'	1:AA:1395:C:H6	1.96	0.48
3:AC:101:LEU:HD23	3:AC:101:LEU:C	2.38	0.48
4:AD:159:ARG:O	4:AD:160:GLN:C	2.55	0.48
4:AD:162:LEU:HD11	4:AD:178:VAL:O	2.14	0.48
7:AG:91:VAL:HG22	7:AG:95:ARG:HD3	1.94	0.48
7:AG:118:VAL:HG23	7:AG:119:ARG:N	2.17	0.48
7:AG:121:ALA:O	7:AG:122:HIS:C	2.56	0.48
12:AL:94:PRO:O	12:AL:96:VAL:HG23	2.13	0.48
13:AM:10:PRO:O	13:AM:11:ARG:CB	2.50	0.48
18:AR:71:LYS:O	18:AR:74:ARG:HB2	2.13	0.48
26:B0:24:LYS:HG3	36:BA:2355:C:H4'	1.95	0.48
27:B1:5:CYS:SG	27:B1:63:ALA:N	2.84	0.48
29:B3:45:GLY:HA2	29:B3:48:GLU:CG	2.44	0.48
30:B4:28:LYS:HE3	30:B4:28:LYS:HA	1.94	0.48
36:BA:183:C:O2'	36:BA:184:C:H5'	2.12	0.48
36:BA:442:G:C4'	41:BF:46:ARG:HD3	2.42	0.48
36:BA:884:C:H2'	36:BA:885:C:H5'	1.94	0.48
36:BA:892:G:H2'	36:BA:893:C:C5	2.48	0.48
36:BA:1054:A:C6	36:BA:1106:G:O6	2.66	0.48
36:BA:1168:G:O2'	36:BA:1169:G:H5'	2.13	0.48
36:BA:1274:A:N6	36:BA:1646:C:O2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1279:G:H1	36:BA:1291:C:N4	2.07	0.48
36:BA:1370:C:H3'	36:BA:1371:G:C8	2.38	0.48
36:BA:1497:U:O2	36:BA:1497:U:H2'	2.13	0.48
36:BA:1884:A:C3'	36:BA:1885:A:H5''	2.43	0.48
36:BA:1945:G:C6	36:BA:1946:U:C4	3.00	0.48
36:BA:2283:C:H2'	36:BA:2284:C:O4'	2.13	0.48
36:BA:2527:C:C5	36:BA:2528:U:C5	3.01	0.48
36:BA:2882:A:H5''	50:BR:98:LEU:HD21	1.95	0.48
37:BB:44:G:H4'	37:BB:45:A:H8	1.72	0.48
38:BC:66:HIS:CG	38:BC:184:LYS:HD2	2.49	0.48
39:BD:39:LYS:HB3	39:BD:60:ARG:O	2.12	0.48
39:BD:69:ARG:NH2	39:BD:192:THR:CB	2.76	0.48
40:BE:96:PHE:CD2	40:BE:182:LEU:HD21	2.48	0.48
40:BE:108:SER:O	40:BE:162:ALA:N	2.45	0.48
41:BF:127:GLU:HB2	41:BF:196:LEU:CD1	2.42	0.48
41:BF:205:ARG:HG2	41:BF:206:ILE:HD13	1.94	0.48
42:BG:14:GLU:O	42:BG:17:PRO:HG2	2.13	0.48
42:BG:60:LEU:HD12	42:BG:60:LEU:O	2.13	0.48
42:BG:95:ARG:HG2	42:BG:95:ARG:HH11	1.78	0.48
43:BH:12:PRO:CA	43:BH:48:GLY:HA2	2.42	0.48
46:BN:102:ALA:O	46:BN:106:MET:HE3	2.13	0.48
49:BQ:6:ARG:C	49:BQ:7:MET:HG3	2.37	0.48
50:BR:76:VAL:CG1	50:BR:77:ARG:N	2.75	0.48
55:BW:72:LYS:O	55:BW:73:ALA:CB	2.61	0.48
58:BZ:143:GLY:H	58:BZ:144:LEU:HD22	1.78	0.48
1:CA:8:A:OP1	1:CA:8:A:H3'	2.13	0.48
1:CA:398:C:H3'	1:CA:398:C:H6	1.78	0.48
1:CA:687:A:H2	1:CA:700:G:N3	2.11	0.48
1:CA:734:G:H2'	1:CA:735:C:C6	2.48	0.48
1:CA:923:A:N6	1:CA:924:C:N4	2.61	0.48
1:CA:1073:U:H3	1:CA:1102:A:N6	2.11	0.48
1:CA:1208:C:O2'	1:CA:1209:C:H5'	2.13	0.48
2:CB:33:TYR:CB	2:CB:43:ASP:HB2	2.40	0.48
2:CB:84:GLU:CB	2:CB:219:VAL:HG21	2.25	0.48
2:CB:168:THR:HG23	2:CB:192:SER:CA	2.43	0.48
2:CB:207:ALA:O	2:CB:208:ILE:C	2.57	0.48
2:CB:209:ARG:HH11	2:CB:239:VAL:CG1	2.17	0.48
2:CB:219:VAL:O	2:CB:222:ILE:HG12	2.13	0.48
2:CB:223:ILE:O	2:CB:224:GLN:C	2.56	0.48
4:CD:67:ILE:O	4:CD:67:ILE:HG23	2.13	0.48
4:CD:206:PHE:O	4:CD:206:PHE:CG	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:10:MET:SD	5:CE:10:MET:N	2.83	0.48
6:CF:2:ARG:NE	6:CF:69:GLU:HG3	2.28	0.48
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.26	0.48
16:CP:30:GLY:O	16:CP:31:LYS:C	2.56	0.48
16:CP:45:THR:O	16:CP:47:ASP:N	2.44	0.48
22:CW:14:A:H2'	22:CW:15:G:O4'	2.13	0.48
25:CZ:14:VAL:O	25:CZ:79:HIS:HA	2.12	0.48
25:CZ:194:GLU:O	25:CZ:198:LYS:HG3	2.14	0.48
26:D0:30:VAL:HA	26:D0:66:VAL:CA	2.44	0.48
26:D0:56:ASP:OD2	36:DA:2364:C:H4'	2.13	0.48
26:D0:81:VAL:O	26:D0:81:VAL:HG12	2.12	0.48
28:D2:3:LEU:C	28:D2:3:LEU:HD23	2.38	0.48
29:D3:19:GLN:C	29:D3:21:ALA:N	2.71	0.48
33:D7:44:PRO:O	33:D7:45:ALA:O	2.32	0.48
35:D9:35:ARG:O	35:D9:36:GLN:O	2.31	0.48
36:DA:47:C:C5	36:DA:48:G:N7	2.81	0.48
36:DA:220:G:H2'	36:DA:427:U:O4	2.14	0.48
36:DA:601:C:O2	36:DA:605:C:H4'	2.13	0.48
36:DA:1199:U:H1'	53:DU:4:ALA:CB	2.44	0.48
36:DA:2088:G:C6	36:DA:2089:U:C4	3.01	0.48
36:DA:2316:C:C2	36:DA:2317:C:C5	3.01	0.48
36:DA:2832:U:H4'	36:DA:2833:G:H5''	1.95	0.48
39:DD:85:ASP:CG	39:DD:88:ARG:NH1	2.71	0.48
40:DE:116:VAL:HG21	40:DE:122:PHE:CE2	2.48	0.48
41:DF:34:TRP:CD1	48:DP:10:PRO:HB2	2.48	0.48
42:DG:57:ALA:CB	42:DG:90:LEU:HD21	2.42	0.48
43:DH:12:PRO:N	43:DH:48:GLY:HA2	2.29	0.48
43:DH:94:TYR:HE2	43:DH:152:ARG:HG2	1.76	0.48
43:DH:98:LEU:CB	43:DH:125:VAL:HG21	2.44	0.48
48:DP:34:GLY:O	48:DP:35:HIS:CB	2.61	0.48
48:DP:123:LEU:HD23	48:DP:123:LEU:H	1.78	0.48
49:DQ:50:ALA:C	49:DQ:52:VAL:N	2.69	0.48
49:DQ:110:THR:HG23	49:DQ:113:GLN:HB2	1.94	0.48
52:DT:61:PHE:HD2	52:DT:61:PHE:N	2.10	0.48
52:DT:89:VAL:O	52:DT:91:ARG:HG3	2.13	0.48
58:DZ:144:LEU:N	58:DZ:144:LEU:HD22	2.28	0.48
1:AA:327:A:O2'	1:AA:328:C:O4'	2.31	0.48
1:AA:507:C:H3'	1:AA:508:C:C6	2.48	0.48
1:AA:833:U:H2'	1:AA:834:C:C6	2.49	0.48
1:AA:909:A:N3	1:AA:1413:A:O2'	2.40	0.48
1:AA:922:G:H2'	1:AA:923:A:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1244:C:O2'	1:AA:1245:A:H5'	2.12	0.48
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.78	0.48
1:AA:1509:C:H2'	1:AA:1510:U:O4'	2.13	0.48
2:AB:17:PHE:HD2	2:AB:17:PHE:C	2.21	0.48
2:AB:106:LYS:HG2	2:AB:107:THR:H	1.78	0.48
3:AC:16:ARG:HH21	3:AC:183:ASP:CA	2.25	0.48
4:AD:91:SER:O	4:AD:94:LEU:N	2.46	0.48
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.78	0.48
5:AE:116:THR:O	5:AE:116:THR:HG22	2.14	0.48
8:AH:20:TYR:CE2	8:AH:75:ARG:HD2	2.44	0.48
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.13	0.48
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.77	0.48
16:AP:53:VAL:O	16:AP:54:GLU:C	2.56	0.48
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE2	2.47	0.48
20:AT:36:LEU:HD13	20:AT:36:LEU:C	2.39	0.48
21:AU:2:GLY:N	21:AU:5:ASP:HB2	2.27	0.48
22:AW:49:C:HO2'	22:AW:50:U:H6	1.58	0.48
22:AW:56:C:C2	38:BC:133:PRO:HB3	2.48	0.48
25:AZ:21:ASP:O	62:AZ:501:GDP:H5'	2.13	0.48
25:AZ:38:GLU:OE1	25:AZ:200:TRP:CH2	2.67	0.48
25:AZ:364:PRO:C	25:AZ:366:ASP:N	2.71	0.48
32:B6:7:ILE:O	32:B6:7:ILE:CG2	2.58	0.48
32:B6:15:GLU:OE2	32:B6:41:PRO:HB3	2.12	0.48
36:BA:556:G:H2'	36:BA:557:U:C6	2.48	0.48
36:BA:848:G:H5'	36:BA:848:G:H8	1.78	0.48
36:BA:862:G:H21	37:BB:100:A:H2	1.62	0.48
36:BA:958:U:OP2	49:BQ:14:ARG:NH1	2.46	0.48
36:BA:972:G:H2'	36:BA:973:A:H8	1.78	0.48
36:BA:1132:A:C8	36:BA:1133:U:C5	3.01	0.48
36:BA:1199:U:H1'	53:BU:4:ALA:CB	2.43	0.48
36:BA:1775:U:C2'	36:BA:1776:G:C5'	2.88	0.48
36:BA:2289:G:H1	36:BA:2343:C:H42	1.59	0.48
36:BA:2320:A:C4	36:BA:2333:A:C6	3.01	0.48
36:BA:2493:U:H2'	36:BA:2494:G:O4'	2.13	0.48
38:BC:198:ALA:C	38:BC:200:LYS:H	2.20	0.48
40:BE:27:LEU:HD22	52:BT:1:MET:HB2	1.96	0.48
46:BN:13:TRP:O	46:BN:135:PRO:HD2	2.13	0.48
49:BQ:113:GLN:O	49:BQ:116:GLU:N	2.39	0.48
51:BS:37:ALA:HB2	51:BS:99:LYS:HZ3	1.78	0.48
51:BS:64:GLU:HA	51:BS:67:ARG:HG3	1.94	0.48
52:BT:94:ALA:C	52:BT:96:ARG:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.94	0.48
53:BU:92:ARG:C	53:BU:94:ASN:N	2.68	0.48
58:BZ:10:ARG:NH2	58:BZ:36:LYS:CB	2.76	0.48
58:BZ:102:LEU:HD21	58:BZ:124:ILE:HD11	1.96	0.48
58:BZ:149:SER:CB	58:BZ:172:ALA:O	2.61	0.48
1:CA:315:A:H5''	1:CA:317:G:OP2	2.14	0.48
1:CA:505:G:C6	1:CA:535:A:C2	3.00	0.48
1:CA:564:C:C2	17:CQ:31:LEU:HD11	2.49	0.48
1:CA:663:A:H5'	1:CA:836:G:OP1	2.14	0.48
1:CA:956:U:H2'	1:CA:957:U:O4'	2.13	0.48
1:CA:1010:G:H2'	1:CA:1011:G:H8	1.78	0.48
1:CA:1186:G:N2	1:CA:1187:G:H1'	2.29	0.48
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.28	0.48
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.12	0.48
2:CB:28:PHE:CD1	2:CB:190:THR:HG22	2.49	0.48
4:CD:43:HIS:O	4:CD:45:GLN:N	2.47	0.48
4:CD:79:PHE:CD2	4:CD:207:TYR:CD1	3.01	0.48
6:CF:62:TRP:CE2	18:CR:35:ARG:CZ	2.97	0.48
7:CG:13:GLN:NE2	7:CG:14:PRO:HD2	2.28	0.48
9:CI:11:LYS:C	9:CI:13:ALA:N	2.68	0.48
10:CJ:98:ILE:O	10:CJ:99:LYS:HD3	2.14	0.48
15:CO:37:ASN:HD22	15:CO:37:ASN:N	2.10	0.48
16:CP:48:TRP:CD1	16:CP:48:TRP:N	2.81	0.48
20:CT:37:SER:O	20:CT:40:ALA:HB3	2.13	0.48
20:CT:73:HIS:O	20:CT:74:LYS:C	2.56	0.48
21:CU:9:ARG:O	21:CU:10:ARG:C	2.55	0.48
28:D2:32:LEU:HA	28:D2:53:LEU:CD1	2.43	0.48
29:D3:11:SER:HB3	36:DA:988:A:O5'	2.12	0.48
30:D4:8:LYS:HG2	30:D4:9:LEU:H	1.70	0.48
32:D6:51:GLU:O	32:D6:52:VAL:HG23	2.13	0.48
36:DA:318:C:C2'	36:DA:319:C:H5'	2.43	0.48
36:DA:336:C:H5''	57:DY:7:VAL:HG11	1.96	0.48
36:DA:614(A):U:C4'	36:DA:614(B):G:H5''	2.43	0.48
36:DA:753:C:H2'	36:DA:754:C:C6	2.48	0.48
36:DA:860:U:C4	36:DA:2268:A:C8	3.02	0.48
36:DA:884:C:H2'	36:DA:885:C:H5'	1.95	0.48
36:DA:933:A:H2'	36:DA:934:G:O4'	2.13	0.48
36:DA:955:C:OP1	49:DQ:87:LYS:HE3	2.13	0.48
36:DA:1131:G:N2	46:DN:75:TYR:HB2	2.29	0.48
36:DA:1173:G:H5'	36:DA:1174:A:O5'	2.13	0.48
36:DA:1269:A:N6	36:DA:2011:U:H3	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1370:C:H2'	36:DA:1371:G:O4'	2.13	0.48
36:DA:1538:G:H2'	36:DA:1539:G:C8	2.48	0.48
36:DA:1567:A:H5'	39:DD:58:HIS:HD2	1.78	0.48
36:DA:1664:A:H3'	36:DA:1665:A:C8	2.49	0.48
36:DA:2123:G:N2	38:DC:42:GLU:OE2	2.46	0.48
36:DA:2137:C:O2'	36:DA:2138:C:H5'	2.13	0.48
36:DA:2289:G:H1	36:DA:2343:C:H42	1.59	0.48
36:DA:2320:A:C4	36:DA:2333:A:C6	3.01	0.48
36:DA:2529:G:OP2	36:DA:2530:A:H8	1.95	0.48
36:DA:2853:C:O2'	36:DA:2854:G:H5'	2.13	0.48
38:DC:51:PRO:HB2	38:DC:167:LYS:O	2.14	0.48
38:DC:59:ARG:NE	38:DC:164:ARG:HD2	2.28	0.48
39:DD:73:VAL:O	39:DD:75:ILE:N	2.44	0.48
39:DD:80:ALA:O	39:DD:113:VAL:HG11	2.14	0.48
40:DE:65:GLY:O	40:DE:66:HIS:C	2.56	0.48
40:DE:145:LYS:O	40:DE:146:THR:HG23	2.14	0.48
42:DG:82:LEU:HD13	42:DG:87:PRO:CB	2.43	0.48
42:DG:127:GLY:O	42:DG:128:ARG:C	2.55	0.48
45:DK:73:UNK:O	45:DK:76:UNK:N	2.47	0.48
46:DN:67:LEU:O	46:DN:68:GLU:HB2	2.12	0.48
46:DN:134:ARG:HH21	46:DN:136:GLU:HB2	1.79	0.48
48:DP:23:PRO:HG2	48:DP:33:ARG:NE	2.28	0.48
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.43	0.48
53:DU:4:ALA:O	53:DU:5:LYS:O	2.31	0.48
54:DV:5:VAL:O	54:DV:11:GLN:HA	2.13	0.48
54:DV:47:VAL:O	54:DV:48:GLY:C	2.55	0.48
55:DW:72:LYS:HG3	55:DW:108:GLY:HA3	1.94	0.48
57:DY:95:LYS:HE3	57:DY:100:ALA:CB	2.43	0.48
58:DZ:60:GLU:HA	58:DZ:66:SER:HA	1.96	0.48
1:AA:80:G:H3'	1:AA:81:U:C5'	2.42	0.48
1:AA:697:U:O4'	1:AA:786:G:H4'	2.13	0.48
1:AA:1202:G:N3	14:AN:42:ILE:HG21	2.29	0.48
1:AA:1480:G:H2'	1:AA:1481:U:O4'	2.14	0.48
2:AB:127:ILE:C	2:AB:129:GLU:N	2.69	0.48
2:AB:162:ILE:CG2	2:AB:184:VAL:HG22	2.43	0.48
4:AD:200:GLU:HG2	4:AD:201:GLN:H	1.78	0.48
6:AF:5:GLU:HA	6:AF:63:TYR:O	2.13	0.48
8:AH:36:LEU:O	8:AH:38:ILE:N	2.46	0.48
9:AI:99:LEU:C	9:AI:101:PHE:N	2.71	0.48
15:AO:82:ILE:O	15:AO:83:GLU:C	2.56	0.48
16:AP:12:LYS:O	16:AP:14:ASN:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:35:ARG:O	18:AR:37:VAL:N	2.45	0.48
18:AR:37:VAL:CG1	18:AR:78:LEU:HB3	2.42	0.48
19:AS:6:LYS:H	19:AS:6:LYS:CD	2.20	0.48
25:AZ:257:GLY:C	25:AZ:258:LEU:HD12	2.39	0.48
25:AZ:316:PHE:HA	25:AZ:404:LEU:H	1.78	0.48
26:B0:24:LYS:NZ	36:BA:2355:C:O2'	2.46	0.48
32:B6:39:TYR:O	32:B6:47:THR:O	2.31	0.48
36:BA:115:C:O2'	36:BA:116:C:H5'	2.14	0.48
36:BA:269:U:O2	36:BA:269:U:C2'	2.55	0.48
36:BA:996:A:C5'	53:BU:94:ASN:HB2	2.40	0.48
36:BA:1222:C:C3'	36:BA:1223:G:H5''	2.43	0.48
36:BA:1398:C:H2'	36:BA:1399:C:C6	2.48	0.48
36:BA:1764:G:C6	36:BA:1989:G:C2	3.00	0.48
36:BA:1877:A:H3'	36:BA:1878:G:O4'	2.13	0.48
36:BA:2620:C:H2'	36:BA:2621:A:O4'	2.14	0.48
36:BA:2784:C:O2'	40:BE:37:ARG:NH1	2.46	0.48
37:BB:37:C:N4	37:BB:49:C:H1'	2.27	0.48
39:BD:44:ASN:CB	39:BD:48:ARG:O	2.61	0.48
39:BD:145:VAL:HG12	39:BD:146:GLU:O	2.13	0.48
40:BE:199:ARG:NH1	40:BE:199:ARG:CB	2.77	0.48
42:BG:69:ALA:O	42:BG:90:LEU:HD12	2.13	0.48
42:BG:107:LEU:HD11	42:BG:178:PHE:HE1	1.78	0.48
43:BH:68:THR:C	43:BH:70:THR:N	2.69	0.48
43:BH:98:LEU:CB	43:BH:125:VAL:HG21	2.43	0.48
45:BK:73:UNK:O	45:BK:74:UNK:C	2.61	0.48
46:BN:6:PRO:HB3	46:BN:41:ASP:OD1	2.14	0.48
46:BN:68:GLU:HA	46:BN:86:PRO:HB2	1.94	0.48
48:BP:56:SER:O	48:BP:57:THR:O	2.32	0.48
48:BP:126:VAL:HG12	48:BP:148:LEU:HD11	1.96	0.48
50:BR:25:ALA:O	50:BR:29:LEU:HB2	2.14	0.48
52:BT:19:LEU:CD1	52:BT:78:LEU:HD22	2.43	0.48
52:BT:33:LYS:HE2	52:BT:43:GLN:HE21	1.79	0.48
54:BV:59:ALA:HA	54:BV:95:LEU:O	2.12	0.48
56:BX:54:VAL:HG12	56:BX:55:ASN:N	2.28	0.48
58:BZ:15:PRO:HA	58:BZ:18:LEU:CD2	2.44	0.48
58:BZ:57:ILE:O	58:BZ:69:THR:N	2.43	0.48
58:BZ:145:GLU:O	58:BZ:174:VAL:HG21	2.13	0.48
58:BZ:166:SER:OG	58:BZ:167:PRO:HA	2.13	0.48
1:CA:881:G:H2'	1:CA:882:C:C6	2.48	0.48
1:CA:1088:G:H2'	1:CA:1089:G:C8	2.49	0.48
1:CA:1158:C:O2	1:CA:1158:C:C2'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1160:G:O6	1:CA:1181:G:C6	2.66	0.48
1:CA:1452:C:H5''	1:CA:1456:G:OP1	2.12	0.48
3:CC:92:ALA:HB2	3:CC:99:VAL:CG2	2.43	0.48
4:CD:100:ARG:HG3	4:CD:100:ARG:NH1	2.27	0.48
5:CE:72:GLN:OE1	5:CE:77:PRO:HA	2.13	0.48
8:CH:85:ARG:HG3	8:CH:85:ARG:NH1	2.28	0.48
10:CJ:40:LEU:N	10:CJ:40:LEU:CD2	2.76	0.48
18:CR:40:LEU:O	18:CR:42:ARG:N	2.47	0.48
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.13	0.48
28:D2:61:LEU:O	28:D2:64:LEU:N	2.46	0.48
28:D2:68:ARG:CZ	28:D2:72:ALA:HB1	2.43	0.48
29:D3:8:LEU:HA	29:D3:54:VAL:HG22	1.96	0.48
30:D4:8:LYS:HG2	30:D4:9:LEU:O	2.14	0.48
31:D5:2:ALA:CA	36:DA:2015:A:H1'	2.42	0.48
32:D6:15:GLU:HG2	32:D6:18:ARG:NH1	2.28	0.48
32:D6:35:GLU:HB3	32:D6:51:GLU:CG	2.44	0.48
35:D9:13:LYS:O	35:D9:27:CYS:HA	2.12	0.48
36:DA:28:A:C2	53:DU:11:ARG:NH2	2.81	0.48
36:DA:271(J):C:C3'	36:DA:271(K):U:H5''	2.44	0.48
36:DA:603:A:C2	36:DA:655:A:N1	2.82	0.48
36:DA:970:C:H2'	36:DA:971:C:C6	2.49	0.48
36:DA:1173:G:H2'	36:DA:1175:U:C5	2.49	0.48
36:DA:1216:G:N2	36:DA:1217:C:H1'	2.28	0.48
36:DA:1323:U:H2'	36:DA:1324:G:H5'	1.95	0.48
36:DA:1961:C:H2'	36:DA:1962:C:O4'	2.14	0.48
36:DA:2679:A:O2'	36:DA:2680:C:H5'	2.14	0.48
36:DA:2732:G:H3'	36:DA:2733:A:C5'	2.43	0.48
38:DC:46:LYS:NZ	38:DC:168:THR:O	2.47	0.48
38:DC:53:ARG:HB3	38:DC:53:ARG:CZ	2.43	0.48
38:DC:104:LEU:O	38:DC:105:ASP:CB	2.61	0.48
39:DD:25:THR:O	39:DD:27:THR:HG22	2.13	0.48
40:DE:53:PRO:O	40:DE:74:PRO:HA	2.13	0.48
40:DE:102:VAL:HG12	40:DE:199:ARG:O	2.12	0.48
41:DF:61:GLY:O	41:DF:63:LYS:N	2.47	0.48
41:DF:170:LEU:HB3	41:DF:173:VAL:HG23	1.95	0.48
41:DF:205:ARG:HG2	41:DF:206:ILE:HD13	1.95	0.48
42:DG:5:VAL:O	42:DG:8:LYS:HB3	2.14	0.48
42:DG:17:PRO:O	42:DG:21:ARG:CB	2.61	0.48
43:DH:97:ARG:HE	43:DH:99:VAL:HG23	1.79	0.48
46:DN:35:ARG:O	46:DN:35:ARG:CG	2.60	0.48
50:DR:63:ARG:O	50:DR:66:VAL:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:13:ARG:HG2	51:DS:13:ARG:NH1	2.28	0.48
51:DS:68:GLN:C	51:DS:70:GLY:N	2.67	0.48
57:DY:75:ILE:HA	57:DY:79:CYS:O	2.14	0.48
58:DZ:28:MET:CA	58:DZ:88:PHE:HB2	2.41	0.48
1:AA:15:G:H2'	1:AA:16:A:C8	2.48	0.48
1:AA:84:U:O2'	1:AA:88:A:H5'	2.14	0.48
1:AA:130:A:N3	1:AA:263:A:O2'	2.44	0.48
1:AA:407:G:H2'	1:AA:408:A:H8	1.74	0.48
1:AA:564:C:N3	17:AQ:31:LEU:HD11	2.29	0.48
1:AA:581:G:C6	1:AA:758:G:N7	2.82	0.48
1:AA:995:C:H42	1:AA:1046:A:H2'	1.78	0.48
1:AA:1109:C:H2'	1:AA:1110:A:H5'	1.95	0.48
1:AA:1160:G:H1	1:AA:1177:G:H22	1.62	0.48
1:AA:1392:G:N2	1:AA:1502:A:H8	2.10	0.48
2:AB:187:LEU:HD13	2:AB:205:ASP:HA	1.95	0.48
3:AC:34:LEU:HD21	3:AC:38:ARG:HE	1.78	0.48
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.95	0.48
6:AF:43:LEU:H	6:AF:43:LEU:CD2	2.18	0.48
7:AG:105:VAL:HG12	7:AG:109:ASN:ND2	2.28	0.48
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.13	0.48
14:AN:4:LYS:O	14:AN:7:ILE:CG1	2.55	0.48
16:AP:5:ARG:NH2	16:AP:24:ALA:O	2.46	0.48
17:AQ:13:ASP:C	17:AQ:15:MET:N	2.70	0.48
24:AY:57:G:OP2	24:AY:57:G:H3'	2.12	0.48
25:AZ:19:HIS:HB2	25:AZ:116:THR:OG1	2.13	0.48
25:AZ:129:PRO:O	25:AZ:130:TYR:HB2	2.14	0.48
25:AZ:219:LYS:HB2	25:AZ:244:ARG:HB2	1.94	0.48
27:B1:7:ILE:CG2	27:B1:66:HIS:HB3	2.39	0.48
27:B1:80:LEU:HD23	27:B1:81:LYS:N	2.27	0.48
27:B1:81:LYS:O	27:B1:82:LEU:HD12	2.14	0.48
28:B2:5:GLU:C	28:B2:9:GLN:NE2	2.72	0.48
31:B5:2:ALA:HA	36:BA:2015:A:H1'	1.94	0.48
34:B8:2:PRO:N	36:BA:667:U:O2	2.47	0.48
35:B9:1:MET:SD	36:BA:2477:C:C3'	3.01	0.48
35:B9:31:LYS:C	35:B9:32:HIS:CD2	2.92	0.48
36:BA:71:A:O2'	36:BA:72:U:OP2	2.27	0.48
36:BA:242:G:H22	36:BA:255:A:P	2.36	0.48
36:BA:271(C):C:O2'	36:BA:271(D):G:H5'	2.13	0.48
36:BA:318:C:C2'	36:BA:319:C:H5'	2.43	0.48
36:BA:604:G:C6	36:BA:625:G:C2	3.01	0.48
36:BA:631:A:H2	36:BA:2415:G:N3	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:642:G:H8	36:BA:642:G:O5'	1.97	0.48
36:BA:1019:U:H3	36:BA:1142(A):A:N6	2.09	0.48
36:BA:1087:G:H8	36:BA:1088:A:H4'	1.77	0.48
36:BA:1603:A:H5'	36:BA:1603:A:C8	2.39	0.48
36:BA:1654:A:O2'	40:BE:113:PHE:O	2.20	0.48
36:BA:1664:A:H61	36:BA:1996:C:N4	2.10	0.48
36:BA:1826:G:H4'	39:BD:242:ARG:NE	2.27	0.48
36:BA:2050:C:H2'	36:BA:2051:A:O4'	2.13	0.48
36:BA:2158:A:H4'	36:BA:2159:G:OP1	2.12	0.48
36:BA:2587:A:O2'	36:BA:2588:G:H5'	2.13	0.48
36:BA:2837:G:H8	36:BA:2837:G:O5'	1.97	0.48
38:BC:104:LEU:O	38:BC:105:ASP:HB2	2.14	0.48
38:BC:166:ASP:CG	38:BC:168:THR:H	2.22	0.48
40:BE:55:ASN:ND2	40:BE:75:VAL:CG2	2.74	0.48
40:BE:128:SER:OG	40:BE:129:HIS:N	2.44	0.48
40:BE:179:GLU:O	40:BE:179:GLU:HG3	2.13	0.48
41:BF:128:ALA:O	41:BF:129:PHE:CG	2.67	0.48
42:BG:51:ARG:NH1	42:BG:53:LEU:HD21	2.29	0.48
42:BG:130:ASN:CG	42:BG:160:VAL:HG13	2.39	0.48
46:BN:24:GLY:H	46:BN:27:ALA:N	1.98	0.48
49:BQ:58:PHE:N	49:BQ:58:PHE:CD1	2.80	0.48
54:BV:43:GLU:O	54:BV:44:LYS:HB2	2.12	0.48
54:BV:96:ILE:HD13	54:BV:96:ILE:N	2.28	0.48
55:BW:1:MET:HG2	55:BW:64:MET:HE3	1.95	0.48
55:BW:12:ILE:CD1	55:BW:42:ARG:HH12	2.23	0.48
57:BY:81:LYS:HZ2	57:BY:99:CYS:HB2	1.75	0.48
58:BZ:163:LEU:CD1	58:BZ:165:VAL:HG23	2.42	0.48
1:CA:526:C:H2'	1:CA:527:G:C4'	2.44	0.48
1:CA:542:G:N2	1:CA:543:C:C2	2.82	0.48
1:CA:642:A:O2'	1:CA:643:C:H5'	2.13	0.48
1:CA:769:G:N1	1:CA:811:C:O2	2.46	0.48
1:CA:1034:G:N2	1:CA:1035:A:C6	2.81	0.48
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.75	0.48
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	2.14	0.48
1:CA:1147:C:C2'	9:CI:16:ARG:HD3	2.43	0.48
1:CA:1152:A:O2'	1:CA:1153:C:C5'	2.59	0.48
1:CA:1204:A:H2'	1:CA:1205:U:O4'	2.12	0.48
2:CB:61:LEU:HA	2:CB:64:ARG:CZ	2.43	0.48
2:CB:61:LEU:HA	2:CB:64:ARG:HE	1.77	0.48
3:CC:182:ILE:HA	3:CC:202:ILE:O	2.13	0.48
5:CE:73:ASN:HD22	5:CE:73:ASN:HA	1.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:9:MET:O	8:CH:10:LEU:C	2.56	0.48
8:CH:13:ILE:O	8:CH:14:ARG:C	2.56	0.48
8:CH:113:SER:O	8:CH:131:GLY:HA3	2.13	0.48
11:CK:89:ALA:C	11:CK:91:ARG:H	2.21	0.48
12:CL:32:PHE:CD1	12:CL:86:ARG:HA	2.48	0.48
12:CL:32:PHE:HD1	12:CL:86:ARG:HA	1.79	0.48
13:CM:91:ARG:HD3	13:CM:96:LEU:HB2	1.96	0.48
13:CM:120:LYS:HA	13:CM:120:LYS:HE3	1.94	0.48
15:CO:64:ARG:NH2	36:DA:715:G:OP1	2.46	0.48
20:CT:12:ALA:O	20:CT:15:ARG:N	2.46	0.48
23:CX:19:U:H2'	23:CX:20:U:C6	2.48	0.48
25:CZ:138:VAL:HG23	25:CZ:174:SER:N	2.28	0.48
25:CZ:383:GLY:H	25:CZ:400:VAL:HB	1.79	0.48
25:CZ:389:ARG:C	25:CZ:395:VAL:HG13	2.39	0.48
27:D1:46:LEU:O	27:D1:47:GLN:NE2	2.47	0.48
27:D1:69:LYS:O	27:D1:72:GLU:N	2.47	0.48
28:D2:10:LEU:O	28:D2:10:LEU:HD23	2.13	0.48
28:D2:69:ARG:C	28:D2:70:GLN:HG2	2.38	0.48
29:D3:10:LYS:HB3	29:D3:53:LEU:HD22	1.95	0.48
29:D3:50:VAL:HA	29:D3:52:HIS:CE1	2.48	0.48
31:D5:52:TYR:HE2	36:DA:2884:U:O2	1.96	0.48
33:D7:11:LYS:CE	36:DA:686:G:H5''	2.44	0.48
34:D8:55:ALA:O	34:D8:56:GLU:C	2.56	0.48
36:DA:48:G:N2	36:DA:177:G:H21	2.12	0.48
36:DA:141:A:N6	36:DA:142:A:H62	2.12	0.48
36:DA:185:U:H2'	36:DA:186:G:H8	1.78	0.48
36:DA:225:A:C2	36:DA:231:C:C2	3.02	0.48
36:DA:242:G:H22	36:DA:255:A:P	2.36	0.48
36:DA:272(B):G:H1	36:DA:366:C:N4	2.10	0.48
36:DA:684:G:H2'	36:DA:774:A:H61	1.78	0.48
36:DA:993:G:H4'	54:DV:70:ILE:HD12	1.95	0.48
36:DA:1202:C:O5'	36:DA:1202:C:H6	1.95	0.48
36:DA:1217:C:OP2	53:DU:15:LYS:NZ	2.45	0.48
36:DA:1221:C:C2'	36:DA:1221(A):C:H6	2.26	0.48
36:DA:1427:A:N6	36:DA:1571:A:OP2	2.47	0.48
36:DA:1503:U:H2'	36:DA:1504:C:C5	2.48	0.48
36:DA:1542:A:H3'	36:DA:1542:A:C8	2.48	0.48
36:DA:1553:A:N6	36:DA:1555:G:H1'	2.28	0.48
36:DA:1614:A:N6	55:DW:92:ARG:O	2.47	0.48
36:DA:1666:G:H8	36:DA:1666:G:H5'	1.78	0.48
36:DA:1668:A:C2	36:DA:1670:C:N3	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1701:A:H8	36:DA:1701:A:H5''	1.79	0.48
36:DA:2567:G:H2'	36:DA:2568:C:C6	2.49	0.48
36:DA:2646:C:H2'	36:DA:2647:U:O4'	2.14	0.48
36:DA:2885:C:C2	36:DA:2886:G:H1'	2.48	0.48
37:DB:105:A:H3'	37:DB:106:G:C8	2.49	0.48
39:DD:121:PRO:HB3	39:DD:135:PHE:CE2	2.48	0.48
40:DE:11:MET:HB3	40:DE:24:THR:HA	1.96	0.48
40:DE:131:ALA:CB	40:DE:134:ILE:HD11	2.44	0.48
42:DG:39:ILE:CG2	42:DG:157:ILE:HG23	2.44	0.48
42:DG:77:ILE:HG22	42:DG:80:PHE:N	2.29	0.48
47:DO:2:ILE:HD12	47:DO:6:THR:HG21	1.95	0.48
48:DP:23:PRO:HG2	48:DP:33:ARG:HG3	1.96	0.48
49:DQ:52:VAL:O	49:DQ:54:MET:N	2.46	0.48
50:DR:28:LEU:HB2	50:DR:34:ILE:HG13	1.95	0.48
51:DS:89:ARG:HG3	51:DS:92:TYR:CB	2.42	0.48
51:DS:98:VAL:HG12	51:DS:100:ALA:HB2	1.96	0.48
56:DX:20:GLY:C	56:DX:22:ALA:H	2.20	0.48
58:DZ:14:LYS:C	58:DZ:16:SER:H	2.21	0.48
1:AA:365:U:O5'	1:AA:365:U:O2	2.31	0.48
1:AA:624:C:H2'	1:AA:625:G:C8	2.43	0.48
1:AA:646:U:H2'	1:AA:647:C:C6	2.48	0.48
1:AA:692:U:H3	11:AK:53:SER:HB3	1.78	0.48
1:AA:711:G:O2'	1:AA:712:A:H5'	2.14	0.48
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.78	0.48
1:AA:1285:A:O2'	1:AA:1286:A:P	2.71	0.48
1:AA:1381:U:H5	1:AA:1382:C:C4	2.31	0.48
1:AA:1442(B):A:C2	52:BT:118:ARG:NH2	2.81	0.48
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.79	0.48
2:AB:111:ARG:O	2:AB:112:VAL:C	2.56	0.48
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.67	0.48
11:AK:65:ALA:HB1	11:AK:98:LEU:HD21	1.94	0.48
13:AM:49:THR:C	13:AM:51:ALA:N	2.70	0.48
13:AM:66:LEU:O	13:AM:67:GLU:C	2.57	0.48
15:AO:32:LEU:O	15:AO:35:ARG:HB2	2.13	0.48
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.13	0.48
16:AP:52:ASP:O	16:AP:53:VAL:C	2.56	0.48
20:AT:12:ALA:O	20:AT:15:ARG:N	2.47	0.48
20:AT:38:LYS:C	20:AT:40:ALA:N	2.72	0.48
22:AV:5:G:H2'	22:AV:6:G:H8	1.75	0.48
22:AW:19:G:H4'	22:AW:20:U:OP2	2.14	0.48
24:AY:64:C:C4'	25:AZ:391:GLY:HA2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:314:THR:O	25:AZ:373:GLU:HA	2.13	0.48
26:B0:19:LYS:NZ	26:B0:21:LEU:HD21	2.28	0.48
30:B4:9:LEU:O	30:B4:10:VAL:HG12	2.13	0.48
31:B5:44:THR:CG2	50:BR:101:ALA:HB2	2.40	0.48
33:B7:8:ASN:HB3	33:B7:11:LYS:HB3	1.94	0.48
33:B7:11:LYS:HG2	36:BA:686:G:C4	2.49	0.48
33:B7:25:PRO:N	33:B7:28:ARG:NH2	2.62	0.48
33:B7:44:PRO:O	33:B7:45:ALA:O	2.32	0.48
35:B9:2:LYS:C	35:B9:34:GLN:HE22	2.22	0.48
36:BA:519:U:H2'	36:BA:520:G:C8	2.48	0.48
36:BA:605:C:OP1	41:BF:104:LYS:NZ	2.46	0.48
36:BA:689:A:H2'	36:BA:690:G:H8	1.79	0.48
36:BA:987:G:H2'	36:BA:988:A:O4'	2.13	0.48
36:BA:1190:G:C5'	48:BP:35:HIS:H	2.27	0.48
36:BA:1200:C:C2	36:BA:1246:A:C2	3.00	0.48
36:BA:1344:G:H22	36:BA:1404:C:H1'	1.77	0.48
36:BA:1809:A:C6	36:BA:1810:A:C6	3.02	0.48
36:BA:2259:G:C2	36:BA:2282:G:C6	3.02	0.48
36:BA:2391:G:O6	36:BA:2425:A:H8	1.97	0.48
36:BA:2498:C:O2'	36:BA:2499:C:C5'	2.57	0.48
36:BA:2520:C:C6	36:BA:2567:G:H1'	2.49	0.48
36:BA:2700:C:O2'	36:BA:2701:C:H5'	2.13	0.48
36:BA:2704:C:H2'	36:BA:2705:A:O4'	2.14	0.48
36:BA:2822:G:OP2	40:BE:110:GLY:C	2.56	0.48
38:BC:151:GLU:HA	38:BC:154:ARG:CD	2.44	0.48
39:BD:11:PRO:O	39:BD:13:ARG:N	2.47	0.48
40:BE:126:PRO:O	40:BE:127:ASP:C	2.55	0.48
41:BF:111:ALA:HA	41:BF:114:VAL:HB	1.94	0.48
41:BF:126:VAL:HG21	41:BF:129:PHE:CZ	2.48	0.48
41:BF:192:LEU:HD21	41:BF:194:MET:HE2	1.96	0.48
42:BG:60:LEU:CD1	42:BG:92:VAL:HG11	2.43	0.48
43:BH:68:THR:C	43:BH:70:THR:H	2.22	0.48
43:BH:93:GLY:C	43:BH:94:TYR:HD1	2.21	0.48
46:BN:25:ARG:HG2	46:BN:25:ARG:HH11	1.79	0.48
46:BN:67:LEU:O	46:BN:68:GLU:CB	2.61	0.48
48:BP:52:GLU:CG	48:BP:53:GLY:H	2.27	0.48
48:BP:84:ASN:ND2	48:BP:116:GLY:HA3	2.29	0.48
50:BR:13:HIS:ND1	50:BR:13:HIS:C	2.71	0.48
51:BS:15:ARG:O	51:BS:18:ILE:HG13	2.14	0.48
51:BS:53:SER:O	51:BS:56:LEU:HB3	2.13	0.48
51:BS:98:VAL:HG12	51:BS:100:ALA:N	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:102:GLU:HB3	53:BU:105:VAL:HB	1.93	0.48
56:BX:8:ILE:HD11	56:BX:43:VAL:CG2	2.42	0.48
57:BY:81:LYS:HG3	57:BY:97:ARG:HG3	1.96	0.48
58:BZ:17:ALA:HA	58:BZ:20:ARG:CG	2.44	0.48
1:CA:9:G:H1	1:CA:25:C:N4	2.12	0.48
1:CA:18:C:C5'	5:CE:127:ASN:ND2	2.71	0.48
1:CA:135:C:H2'	1:CA:136:C:H5'	1.96	0.48
1:CA:303:A:OP1	12:CL:17:LYS:HE3	2.14	0.48
1:CA:367:U:H4'	25:CZ:291:ARG:HD2	1.95	0.48
1:CA:472:A:O2'	16:CP:81:ARG:HA	2.13	0.48
1:CA:1102:A:C4	1:CA:1103:C:C5	3.02	0.48
1:CA:1118:C:OP1	9:CI:104:ARG:NH1	2.46	0.48
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.49	0.48
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.14	0.48
1:CA:1367:C:H5'	10:CJ:60:ARG:CZ	2.44	0.48
2:CB:75:LYS:C	2:CB:77:ALA:N	2.72	0.48
2:CB:142:LEU:C	2:CB:142:LEU:HD23	2.38	0.48
2:CB:219:VAL:O	2:CB:223:ILE:HG13	2.13	0.48
2:CB:233:SER:O	2:CB:234:PRO:C	2.55	0.48
4:CD:9:CYS:SG	4:CD:32:ALA:HB3	2.53	0.48
5:CE:72:GLN:O	5:CE:75:THR:HG22	2.13	0.48
6:CF:79:LEU:O	6:CF:81:ILE:N	2.47	0.48
9:CI:118:LYS:C	9:CI:120:ARG:H	2.22	0.48
14:CN:47:LEU:C	14:CN:49:HIS:H	2.21	0.48
25:CZ:140:MET:HG3	62:CZ:501:GDP:HN21	1.77	0.48
25:CZ:286:VAL:HG23	25:CZ:287:GLY:N	2.27	0.48
26:D0:24:LYS:N	26:D0:37:LEU:O	2.43	0.48
27:D1:63:ALA:O	27:D1:64:ALA:C	2.55	0.48
28:D2:46:GLN:O	28:D2:50:ILE:CD1	2.62	0.48
28:D2:61:LEU:O	28:D2:62:THR:C	2.57	0.48
34:D8:7:HIS:CD2	34:D8:59:LYS:HZ2	2.31	0.48
36:DA:121:G:H4'	36:DA:149:A:H5'	1.95	0.48
36:DA:222:A:H2	36:DA:233:A:O3'	1.96	0.48
36:DA:321:G:C1'	41:DF:168:ARG:HH21	2.27	0.48
36:DA:1120:G:H2'	36:DA:1121:C:H6	1.77	0.48
36:DA:1714:G:H2'	36:DA:1717:G:C8	2.49	0.48
36:DA:1720:U:C3'	36:DA:1721:G:H5''	2.44	0.48
36:DA:2074:U:H2'	36:DA:2075:U:C5	2.48	0.48
36:DA:2107:C:H2'	36:DA:2108:C:C6	2.49	0.48
36:DA:2128:C:O2'	36:DA:2129:C:H6	1.97	0.48
36:DA:2170:A:H5''	38:DC:134:ARG:NE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2208:A:N3	36:DA:2219:G:C6	2.82	0.48
36:DA:2485:G:C5'	49:DQ:46:GLN:HE21	2.27	0.48
36:DA:2488:A:O2'	36:DA:2489:G:H5'	2.14	0.48
36:DA:2758:A:O2'	36:DA:2759:G:H8	1.97	0.48
38:DC:68:LEU:HD11	38:DC:161:ILE:HG22	1.95	0.48
39:DD:131:LEU:HA	39:DD:190:TYR:CE2	2.48	0.48
39:DD:137:PRO:HB2	39:DD:140:THR:HG23	1.95	0.48
39:DD:267:SER:C	39:DD:269:PHE:H	2.22	0.48
40:DE:82:ARG:HG3	40:DE:83:ASP:H	1.77	0.48
41:DF:130:ALA:H	41:DF:142:TRP:NE1	2.12	0.48
42:DG:91:ARG:CG	42:DG:92:VAL:N	2.77	0.48
43:DH:46:GLU:HB3	43:DH:50:VAL:CG1	2.44	0.48
43:DH:150:ALA:O	43:DH:151:ILE:C	2.56	0.48
48:DP:78:PRO:HB3	48:DP:111:ARG:NH2	2.29	0.48
48:DP:85:LEU:O	48:DP:89:ALA:HB2	2.14	0.48
56:DX:12:VAL:HA	56:DX:27:THR:O	2.13	0.48
58:DZ:153:SER:HB3	58:DZ:167:PRO:HB3	1.95	0.48
1:AA:182:U:N3	1:AA:183:G:H1'	2.28	0.48
1:AA:1147:C:C2'	9:AI:16:ARG:HD3	2.42	0.48
1:AA:1439:C:N3	1:AA:1463:C:N3	2.62	0.48
1:AA:1526:G:C4	1:AA:1527:C:C5	3.02	0.48
3:AC:47:LEU:HB3	3:AC:52:LEU:HD22	1.96	0.48
4:AD:12:CYS:SG	4:AD:31:CYS:SG	3.12	0.48
4:AD:61:LYS:O	4:AD:62:GLN:C	2.56	0.48
4:AD:135:LEU:HD13	4:AD:135:LEU:N	2.28	0.48
7:AG:93:PRO:O	7:AG:94:ARG:C	2.57	0.48
7:AG:112:PRO:HG2	7:AG:112:PRO:O	2.13	0.48
8:AH:38:ILE:HA	8:AH:41:ARG:HB3	1.96	0.48
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.48	0.48
12:AL:7:ILE:O	12:AL:10:LEU:N	2.41	0.48
20:AT:71:THR:HG22	20:AT:72:LEU:H	1.79	0.48
22:AV:18:G:HO2'	22:AV:19:G:P	2.36	0.48
25:AZ:32:THR:HA	25:AZ:70:TYR:HB3	1.95	0.48
26:B0:23:VAL:HA	26:B0:38:VAL:HG13	1.95	0.48
27:B1:44:PRO:HA	36:BA:396:G:O3'	2.14	0.48
32:B6:15:GLU:HG2	32:B6:18:ARG:NH1	2.29	0.48
32:B6:20:ASN:C	32:B6:21:TYR:CD1	2.91	0.48
32:B6:38:LYS:HA	32:B6:48:VAL:HA	1.94	0.48
33:B7:25:PRO:N	33:B7:28:ARG:HH21	2.12	0.48
36:BA:568:U:H2'	36:BA:570:G:OP2	2.14	0.48
36:BA:733:G:C6	36:BA:761:A:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:792:G:O2'	36:BA:2440:C:N3	2.36	0.48
36:BA:927:G:N3	36:BA:927:G:H2'	2.29	0.48
36:BA:979:G:C2	36:BA:982:C:C5	3.01	0.48
36:BA:1044:G:C3'	36:BA:1045:A:H5''	2.43	0.48
36:BA:1047:G:H21	36:BA:1110:G:H2'	1.75	0.48
36:BA:1400:G:H2'	36:BA:1401:G:C8	2.49	0.48
36:BA:1416:G:O2'	36:BA:1417:C:H5	1.96	0.48
36:BA:1769:G:H1'	36:BA:1958:C:H5''	1.96	0.48
36:BA:1930:G:H22	36:BA:1969:A:C5'	2.27	0.48
36:BA:2022:U:O2'	36:BA:2617:C:C5'	2.60	0.48
36:BA:2107:C:H2'	36:BA:2108:C:C6	2.49	0.48
36:BA:2241:A:H2'	36:BA:2242:G:C8	2.48	0.48
36:BA:2312:U:H2'	36:BA:2313:C:H5''	1.95	0.48
36:BA:2596:U:H3'	36:BA:2597:G:H8	1.78	0.48
36:BA:2796:U:C2'	36:BA:2799:C:H5'	2.42	0.48
36:BA:2831:G:OP1	36:BA:2834:G:H4'	2.13	0.48
38:BC:140:PRO:HG2	38:BC:141:LYS:H	1.79	0.48
40:BE:37:ARG:O	40:BE:45:THR:HA	2.14	0.48
40:BE:69:LYS:HD3	40:BE:89:ASP:HA	1.96	0.48
41:BF:132:VAL:CG2	41:BF:133:ASN:H	2.13	0.48
42:BG:62:LEU:H	42:BG:62:LEU:CD1	2.23	0.48
42:BG:169:ALA:O	42:BG:173:LEU:HG	2.14	0.48
43:BH:30:LYS:HE2	43:BH:30:LYS:CA	2.42	0.48
43:BH:123:PHE:N	43:BH:123:PHE:CD1	2.82	0.48
44:BJ:30:UNK:O	44:BJ:31:UNK:CB	2.62	0.48
47:BO:8:LEU:O	47:BO:9:GLU:C	2.56	0.48
47:BO:88:ASN:HD21	47:BO:92:GLU:CB	2.25	0.48
49:BQ:109:VAL:CG1	49:BQ:110:THR:H	2.26	0.48
52:BT:28:VAL:O	52:BT:29:ARG:CB	2.62	0.48
52:BT:48:ILE:O	52:BT:63:VAL:HG13	2.13	0.48
55:BW:59:VAL:HA	55:BW:63:ASP:HA	1.96	0.48
56:BX:26:TYR:O	56:BX:80:ILE:HA	2.14	0.48
1:CA:27:G:H2'	1:CA:28:G:C8	2.49	0.48
1:CA:148:G:H2'	1:CA:149:A:C8	2.49	0.48
1:CA:269:C:H2'	1:CA:270:A:H8	1.74	0.48
1:CA:692:U:O4	11:CK:53:SER:HA	2.14	0.48
1:CA:756:C:O2'	1:CA:757:U:H5'	2.14	0.48
1:CA:763:G:H2'	1:CA:764:C:H6	1.78	0.48
1:CA:1047:G:C2'	1:CA:1048:G:H5'	2.44	0.48
1:CA:1054:C:P	1:CA:1198:G:OP2	2.72	0.48
1:CA:1069:C:H2'	1:CA:1070:U:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.39	0.48
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.94	0.48
2:CB:47:THR:HG22	2:CB:51:LEU:CD1	2.44	0.48
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.42	0.48
5:CE:79:GLU:HB3	5:CE:92:LYS:HG3	1.94	0.48
6:CF:41:GLU:HB2	6:CF:62:TRP:HB3	1.96	0.48
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.47	0.48
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.13	0.48
7:CG:102:ARG:CG	7:CG:106:GLN:HE21	2.27	0.48
22:CW:53:G:N2	22:CW:54:U:H3	2.11	0.48
22:CW:55:U:H2'	22:CW:57:G:OP2	2.13	0.48
25:CZ:155:ARG:HG2	25:CZ:155:ARG:HH11	1.77	0.48
25:CZ:195:TRP:HA	25:CZ:198:LYS:HB2	1.94	0.48
25:CZ:316:PHE:HD2	25:CZ:400:VAL:HG13	1.78	0.48
26:D0:27:GLU:CG	26:D0:68:GLU:HA	2.43	0.48
26:D0:30:VAL:CG1	26:D0:66:VAL:HG23	2.44	0.48
27:D1:49:VAL:HG22	27:D1:50:ARG:N	2.28	0.48
27:D1:62:VAL:HG22	27:D1:63:ALA:N	2.28	0.48
31:D5:56:LYS:HE2	31:D5:59:GLU:CD	2.38	0.48
35:D9:11:CYS:SG	35:D9:14:CYS:SG	3.07	0.48
36:DA:176:G:C5	36:DA:177:G:C6	3.02	0.48
36:DA:183:C:C5'	36:DA:433:C:H4'	2.44	0.48
36:DA:629:G:H8	36:DA:629:G:H5'	1.78	0.48
36:DA:654(H):G:C2'	36:DA:654(I):C:H5'	2.44	0.48
36:DA:820:A:H1'	36:DA:943:U:O2'	2.14	0.48
36:DA:1174:A:OP1	36:DA:1175:U:H5''	2.14	0.48
36:DA:1317:A:C2	36:DA:1336:A:C2	3.02	0.48
36:DA:1328:G:N1	36:DA:1647:G:N2	2.62	0.48
36:DA:1358:G:O2'	36:DA:1359:A:H5''	2.13	0.48
36:DA:1502:C:H5'	36:DA:1503:U:OP2	2.14	0.48
36:DA:1826:G:H4'	39:DD:242:ARG:NE	2.28	0.48
36:DA:2061:G:H5''	36:DA:2503:A:N1	2.29	0.48
36:DA:2174:C:O2'	38:DC:219:GLY:O	2.30	0.48
36:DA:2334:G:H21	51:DS:18:ILE:HG21	1.78	0.48
36:DA:2638:G:P	40:DE:82:ARG:HH21	2.36	0.48
36:DA:2651:C:O2'	36:DA:2652:C:H5'	2.14	0.48
39:DD:35:LYS:HB2	39:DD:104:TYR:CE1	2.49	0.48
40:DE:67:PHE:HD2	40:DE:68:ALA:H	1.61	0.48
42:DG:7:LEU:O	42:DG:11:TYR:HB2	2.13	0.48
45:DK:95:UNK:C	45:DK:97:UNK:N	2.77	0.48
46:DN:48:MET:HE3	46:DN:49:GLY:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:105:GLU:O	47:DO:109:LYS:HG2	2.13	0.48
47:DO:107:ARG:NH1	52:DT:35:LYS:HB2	2.29	0.48
48:DP:126:VAL:CA	48:DP:145:PRO:HB2	2.40	0.48
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.18	0.48
56:DX:46:ALA:C	56:DX:47:PHE:CD1	2.92	0.48
56:DX:60:ARG:HG3	56:DX:75:ASP:CG	2.39	0.48
58:DZ:77:ASP:OD2	58:DZ:79:ARG:O	2.31	0.48
58:DZ:129:SER:HB2	58:DZ:131:ARG:HD3	1.95	0.48
1:AA:142:G:H1	1:AA:221:C:N4	2.10	0.48
1:AA:364:A:H2'	1:AA:365:U:O2	2.13	0.48
1:AA:404:U:H5'	4:AD:122:ARG:HD3	1.95	0.48
1:AA:625:G:H2'	1:AA:626:U:C6	2.49	0.48
1:AA:908:A:O2'	1:AA:909:A:H5'	2.13	0.48
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.92	0.48
1:AA:1124:G:H2'	1:AA:1145:C:N4	2.29	0.48
1:AA:1166:G:H1'	1:AA:1171:G:N2	2.29	0.48
1:AA:1298:C:H2'	7:AG:114:ARG:HH12	1.79	0.48
1:AA:1410:G:C6	1:AA:1491:G:O6	2.67	0.48
2:AB:72:GLY:HA2	2:AB:165:VAL:CG2	2.43	0.48
4:AD:88:VAL:HG12	4:AD:90:GLY:N	2.24	0.48
4:AD:188:LEU:O	4:AD:189:PRO:O	2.32	0.48
5:AE:20:GLN:NE2	5:AE:25:ARG:NH2	2.61	0.48
6:AF:41:GLU:HB2	6:AF:62:TRP:HB3	1.96	0.48
7:AG:13:GLN:NE2	7:AG:14:PRO:HD2	2.29	0.48
12:AL:39:VAL:O	12:AL:56:ALA:HB1	2.14	0.48
13:AM:79:LYS:O	13:AM:82:MET:CG	2.61	0.48
14:AN:4:LYS:O	14:AN:7:ILE:N	2.42	0.48
19:AS:31:ILE:HG23	19:AS:31:ILE:O	2.14	0.48
20:AT:72:LEU:CD2	20:AT:76:ALA:HB1	2.35	0.48
20:AT:73:HIS:O	20:AT:74:LYS:C	2.56	0.48
22:AW:64:A:H2'	22:AW:65:G:H8	1.75	0.48
25:AZ:8:THR:OG1	25:AZ:9:LYS:N	2.42	0.48
25:AZ:121:LEU:O	25:AZ:125:GLN:HG2	2.14	0.48
25:AZ:309:SER:O	25:AZ:310:ILE:HB	2.13	0.48
25:AZ:348:ASP:OD1	25:AZ:348:ASP:O	2.32	0.48
26:B0:48:GLY:N	26:B0:51:VAL:HB	2.29	0.48
30:B4:16:CYS:HA	30:B4:33:VAL:CG1	2.44	0.48
33:B7:11:LYS:HE3	33:B7:15:THR:HG21	1.95	0.48
35:B9:35:ARG:NH1	36:BA:2741:A:O3'	2.45	0.48
36:BA:204:A:OP1	36:BA:206:U:H1'	2.14	0.48
36:BA:316:C:H2'	36:BA:317:G:O5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1069:A:C1'	36:BA:1070:A:P	3.02	0.48
36:BA:1112:G:O2'	36:BA:1113:U:H5'	2.13	0.48
36:BA:1188:U:H5''	54:BV:79:VAL:HG11	1.96	0.48
36:BA:1344:G:C2	36:BA:1404:C:C2	3.02	0.48
36:BA:1567:A:H5'	39:BD:58:HIS:HD2	1.79	0.48
36:BA:1627:G:H2'	36:BA:1628:G:H8	1.78	0.48
36:BA:1668:A:H61	36:BA:1676:A:H61	1.62	0.48
36:BA:1701:A:H2'	36:BA:1702:G:H5'	1.96	0.48
36:BA:1811:G:H2'	36:BA:1812:A:H8	1.79	0.48
36:BA:2262:U:C2	36:BA:2263:C:C5	3.01	0.48
36:BA:2646:C:H2'	36:BA:2647:U:O4'	2.14	0.48
39:BD:68:LYS:HB2	39:BD:70:TRP:CZ2	2.49	0.48
39:BD:92:ILE:HD13	39:BD:92:ILE:H	1.79	0.48
42:BG:47:LYS:HZ2	42:BG:81:LYS:HB3	1.78	0.48
42:BG:87:PRO:C	42:BG:88:ILE:HD13	2.39	0.48
43:BH:65:HIS:HE1	43:BH:69:ARG:CZ	2.26	0.48
46:BN:18:ALA:CB	46:BN:26:LEU:HD22	2.43	0.48
46:BN:116:LEU:O	46:BN:119:ARG:HB2	2.14	0.48
48:BP:47:ASP:HB3	48:BP:48:PRO:C	2.37	0.48
48:BP:66:GLY:O	48:BP:67:MET:HB2	2.14	0.48
49:BQ:18:LYS:HB3	49:BQ:98:LYS:HZ3	1.79	0.48
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HA	2.29	0.48
50:BR:7:GLY:O	50:BR:8:ARG:HB2	2.13	0.48
51:BS:63:THR:O	51:BS:64:GLU:C	2.57	0.48
52:BT:101:PHE:C	52:BT:103:ARG:N	2.68	0.48
56:BX:35:THR:CG2	56:BX:37:THR:HB	2.44	0.48
1:CA:130:A:C8	17:CQ:63:ARG:HG3	2.48	0.48
1:CA:977:A:H8	1:CA:982:U:O4	1.97	0.48
1:CA:1139:G:H4'	1:CA:1140:C:H6	1.79	0.48
1:CA:1226:C:H6	13:CM:103:THR:HG1	1.61	0.48
1:CA:1226:C:N4	13:CM:104:ARG:HB2	2.28	0.48
1:CA:1499:A:C1'	1:CA:1520:G:C5'	2.92	0.48
2:CB:127:ILE:HG23	2:CB:135:GLN:NE2	2.29	0.48
2:CB:209:ARG:HH11	2:CB:239:VAL:HG21	1.79	0.48
3:CC:18:TRP:HB3	3:CC:20:SER:H	1.78	0.48
3:CC:120:VAL:HG12	3:CC:198:VAL:HG21	1.95	0.48
4:CD:88:VAL:HG12	4:CD:90:GLY:N	2.27	0.48
4:CD:188:LEU:O	4:CD:189:PRO:O	2.31	0.48
8:CH:112:LEU:N	8:CH:112:LEU:HD23	2.29	0.48
11:CK:34:ASP:C	11:CK:36:ASP:H	2.21	0.48
13:CM:59:TYR:O	13:CM:63:THR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.29	0.48
14:CN:18:VAL:O	14:CN:19:ARG:O	2.32	0.48
15:CO:34:LEU:HD12	15:CO:34:LEU:O	2.14	0.48
28:D2:4:SER:CA	28:D2:7:ARG:HD2	2.40	0.48
28:D2:64:LEU:O	28:D2:68:ARG:HB2	2.14	0.48
30:D4:4:GLY:N	30:D4:6:HIS:CE1	2.82	0.48
31:D5:2:ALA:HA	36:DA:2015:A:H1'	1.95	0.48
33:D7:19:ARG:HD3	36:DA:125:G:OP2	2.14	0.48
35:D9:1:MET:HE3	35:D9:10:ILE:HG21	1.94	0.48
36:DA:272(B):G:H2'	36:DA:272(C):G:C8	2.45	0.48
36:DA:1216:G:N2	36:DA:1234:U:H1'	2.29	0.48
36:DA:1216:G:C2'	36:DA:1217:C:H5'	2.44	0.48
36:DA:1410:G:H2'	36:DA:1411:C:C6	2.49	0.48
36:DA:1453:U:OP1	50:DR:77:ARG:HD3	2.14	0.48
36:DA:1697:G:H3'	36:DA:1698:A:H5''	1.96	0.48
36:DA:1769:G:H1'	36:DA:1958:C:H5''	1.95	0.48
36:DA:2488:A:H2'	36:DA:2489:G:C8	2.48	0.48
36:DA:2677:G:O2'	36:DA:2678:C:H5'	2.13	0.48
36:DA:2691:C:H2'	36:DA:2692:C:C6	2.31	0.48
40:DE:52:LEU:HB3	40:DE:76:ARG:HB2	1.96	0.48
40:DE:96:PHE:HA	40:DE:100:GLU:OE1	2.13	0.48
40:DE:176:ILE:HG22	40:DE:178:GLU:HB3	1.95	0.48
40:DE:178:GLU:HG3	40:DE:179:GLU:H	1.79	0.48
41:DF:154:VAL:HG22	41:DF:191:ARG:HB3	1.94	0.48
42:DG:17:PRO:O	42:DG:21:ARG:HB3	2.13	0.48
42:DG:119:GLY:HA3	42:DG:181:ARG:CB	2.44	0.48
43:DH:136:ILE:H	43:DH:136:ILE:CD1	2.26	0.48
46:DN:54:VAL:O	46:DN:122:VAL:HG13	2.14	0.48
46:DN:71:ILE:HA	46:DN:86:PRO:HA	1.95	0.48
46:DN:117:PHE:O	46:DN:118:LYS:C	2.57	0.48
49:DQ:27:VAL:O	49:DQ:28:ALA:HB3	2.14	0.48
49:DQ:34:LEU:HD12	49:DQ:130:LYS:C	2.38	0.48
50:DR:13:HIS:ND1	50:DR:13:HIS:C	2.72	0.48
51:DS:63:THR:O	51:DS:64:GLU:C	2.56	0.48
51:DS:106:ARG:HH21	51:DS:109:GLY:N	2.11	0.48
52:DT:32:TYR:O	52:DT:41:ARG:O	2.31	0.48
52:DT:68:TYR:C	52:DT:70:VAL:N	2.70	0.48
53:DU:102:GLU:HB3	53:DU:105:VAL:CG2	2.44	0.48
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.42	0.48
57:DY:13:VAL:CG1	57:DY:14:LEU:H	2.07	0.48
57:DY:68:HIS:ND1	57:DY:70:SER:HB3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:59:LEU:O	58:DZ:66:SER:HA	2.14	0.48
1:AA:878:G:OP1	8:AH:90:GLY:HA3	2.14	0.48
1:AA:928:G:O2'	1:AA:929:G:H5'	2.13	0.48
1:AA:1056:U:H5'	3:AC:163:ALA:HB2	1.96	0.48
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.29	0.48
2:AB:223:ILE:O	2:AB:224:GLN:C	2.57	0.48
3:AC:32:LEU:HD22	3:AC:59:ARG:NH2	2.29	0.48
3:AC:145:GLY:O	3:AC:146:ALA:O	2.31	0.48
8:AH:129:VAL:HG23	8:AH:130:GLY:N	2.28	0.48
10:AJ:28:ARG:C	10:AJ:30:SER:N	2.72	0.48
11:AK:93:GLN:O	11:AK:94:ALA:C	2.56	0.48
18:AR:70:ILE:O	18:AR:71:LYS:C	2.57	0.48
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.96	0.48
22:AV:40:C:H4'	22:AW:36:A:H5''	1.95	0.48
24:AY:48:C:H4'	24:AY:49:G:H5''	1.95	0.48
25:AZ:136:ASN:O	25:AZ:137:LYS:HB2	2.13	0.48
26:B0:32:ARG:O	26:B0:35:ASN:OD1	2.32	0.48
29:B3:50:VAL:C	29:B3:52:HIS:N	2.72	0.48
34:B8:13:ARG:HB3	48:BP:63:PRO:HA	1.96	0.48
34:B8:25:MET:CG	48:BP:64:LYS:HB2	2.34	0.48
36:BA:335:C:H2'	36:BA:336:C:C6	2.49	0.48
36:BA:784:A:C8	36:BA:792:G:C5	3.02	0.48
36:BA:817:C:H4'	36:BA:932:G:N1	2.29	0.48
36:BA:892:G:H2'	36:BA:893:C:C6	2.48	0.48
36:BA:953:A:H2'	36:BA:954:G:C8	2.46	0.48
36:BA:972:G:H8	36:BA:972:G:O5'	1.96	0.48
36:BA:1023:U:H1'	36:BA:1122:G:H5''	1.96	0.48
36:BA:1605:C:H2'	36:BA:1606:G:C5'	2.43	0.48
36:BA:1625:C:H2'	36:BA:1626:G:O4'	2.14	0.48
36:BA:1714:G:H2'	36:BA:1717:G:C8	2.49	0.48
36:BA:2443:C:C2'	36:BA:2444:G:H5'	2.43	0.48
36:BA:2880:C:O2	50:BR:91:GLN:O	2.32	0.48
37:BB:73:A:C2	37:BB:74:U:H1'	2.49	0.48
38:BC:75:LEU:HD12	38:BC:75:LEU:C	2.38	0.48
38:BC:103:ILE:O	38:BC:103:ILE:CG2	2.60	0.48
38:BC:113:VAL:CG2	38:BC:136:LEU:HD22	2.44	0.48
38:BC:177:LYS:O	38:BC:180:PHE:HD1	1.97	0.48
40:BE:95:ILE:HD13	40:BE:95:ILE:H	1.78	0.48
41:BF:168:ARG:HA	41:BF:175:THR:HG21	1.94	0.48
42:BG:18:GLU:OE1	42:BG:22:ARG:HG3	2.14	0.48
42:BG:67:LYS:HD3	42:BG:67:LYS:H	1.69	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:97:ASP:N	42:BG:100:TRP:HD1	2.06	0.48
46:BN:83:LYS:CG	46:BN:84:LYS:H	2.20	0.48
46:BN:117:PHE:O	46:BN:118:LYS:C	2.57	0.48
48:BP:83:VAL:O	48:BP:115:LEU:HD23	2.14	0.48
48:BP:147:LEU:HG	48:BP:148:LEU:H	1.77	0.48
50:BR:67:LEU:HD13	50:BR:70:LEU:O	2.14	0.48
51:BS:12:PHE:CD2	51:BS:12:PHE:N	2.82	0.48
51:BS:27:SER:C	51:BS:28:VAL:CG2	2.86	0.48
53:BU:10:ARG:O	53:BU:13:LYS:N	2.45	0.48
55:BW:76:VAL:CB	55:BW:103:ILE:HG23	2.44	0.48
57:BY:90:LEU:N	57:BY:90:LEU:HD23	2.29	0.48
58:BZ:82:ARG:NH1	58:BZ:83:PRO:O	2.46	0.48
1:CA:28:G:H1	1:CA:555:C:H42	1.61	0.48
1:CA:44:G:C2	1:CA:45:U:H1'	2.48	0.48
1:CA:68:G:H5'	1:CA:171:A:H1'	1.96	0.48
1:CA:142:G:H1	1:CA:221:C:N4	2.09	0.48
1:CA:246:A:C2	1:CA:282:A:C5	3.02	0.48
1:CA:276:G:O2'	17:CQ:68:ARG:NH1	2.47	0.48
1:CA:284:G:H2'	1:CA:285:G:H8	1.79	0.48
1:CA:294:U:H2'	1:CA:295:C:C6	2.49	0.48
1:CA:403:C:OP1	4:CD:136:PRO:HD2	2.13	0.48
1:CA:581:G:O6	1:CA:758:G:C8	2.67	0.48
1:CA:646:U:H2'	1:CA:647:C:C6	2.49	0.48
1:CA:712:A:C2	1:CA:713:G:C4	3.02	0.48
1:CA:859:A:C4	1:CA:860:A:C8	3.02	0.48
1:CA:967:C:H2'	1:CA:968:A:H8	1.76	0.48
1:CA:1084:G:OP1	1:CA:1086:U:C4	2.67	0.48
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.79	0.48
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.79	0.48
1:CA:1152:A:C4	1:CA:1153:C:C5	3.02	0.48
2:CB:79:ASP:C	2:CB:81:VAL:N	2.71	0.48
2:CB:220:ASP:O	2:CB:223:ILE:N	2.47	0.48
6:CF:14:LEU:HD13	6:CF:15:ASP:N	2.29	0.48
6:CF:27:GLN:O	6:CF:28:ARG:C	2.56	0.48
8:CH:82:HIS:C	8:CH:83:ILE:HG22	2.38	0.48
9:CI:11:LYS:HG3	9:CI:108:VAL:HG13	1.95	0.48
10:CJ:53:PRO:C	14:CN:41:ARG:HH22	2.20	0.48
12:CL:28:LYS:O	12:CL:30:ALA:N	2.47	0.48
15:CO:35:ARG:O	15:CO:38:ARG:HB2	2.14	0.48
16:CP:12:LYS:HG2	16:CP:13:HIS:CD2	2.48	0.48
17:CQ:99:SER:C	17:CQ:100:LYS:CG	2.85	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:208:GLU:O	25:CZ:209:TYR:HB3	2.14	0.48
25:CZ:320:VAL:HG12	25:CZ:321:TYR:H	1.78	0.48
27:D1:6:GLU:CD	27:D1:60:PHE:HD1	2.22	0.48
27:D1:84:GLY:C	27:D1:86:SER:N	2.70	0.48
31:D5:27:PRO:HG3	55:DW:23:LEU:CD1	2.34	0.48
36:DA:29:U:O2'	53:DU:8:VAL:HG23	2.13	0.48
36:DA:309:G:O3'	57:DY:18:GLY:CA	2.61	0.48
36:DA:517:C:H6	36:DA:517:C:O5'	1.97	0.48
36:DA:519:U:H2'	36:DA:520:G:H8	1.79	0.48
36:DA:525:U:O2'	36:DA:526:A:H5'	2.13	0.48
36:DA:606:U:H2'	36:DA:607:U:C4'	2.44	0.48
36:DA:764:A:C3'	36:DA:765:G:H5'	2.41	0.48
36:DA:848:G:H1'	36:DA:933:A:O2'	2.13	0.48
36:DA:866:A:C2	36:DA:914:C:C6	3.02	0.48
36:DA:1335:U:OP1	56:DX:65:ARG:NH2	2.46	0.48
36:DA:1337:G:H2'	36:DA:1338:G:H8	1.78	0.48
36:DA:1355:G:O6	36:DA:1377:G:N2	2.47	0.48
36:DA:1813:G:H4'	39:DD:44:ASN:O	2.13	0.48
36:DA:2713:A:H3'	36:DA:2714:G:C5'	2.44	0.48
36:DA:2850:A:C6	36:DA:2869:G:H5'	2.49	0.48
38:DC:117:PRO:HD3	38:DC:146:GLY:N	2.28	0.48
39:DD:11:PRO:C	39:DD:13:ARG:N	2.72	0.48
39:DD:11:PRO:O	39:DD:13:ARG:N	2.46	0.48
39:DD:45:ASN:CG	39:DD:46:GLN:N	2.72	0.48
39:DD:70:TRP:HZ3	39:DD:146:GLU:OE2	1.97	0.48
39:DD:158:ALA:O	39:DD:196:VAL:HG11	2.14	0.48
40:DE:2:LYS:O	40:DE:199:ARG:HA	2.14	0.48
40:DE:8:LYS:HB2	40:DE:196:VAL:HG11	1.96	0.48
40:DE:62:PRO:C	40:DE:64:LYS:N	2.68	0.48
41:DF:17:ARG:HG3	41:DF:17:ARG:NH1	2.28	0.48
41:DF:132:VAL:CG2	41:DF:133:ASN:H	2.12	0.48
42:DG:59:GLU:O	42:DG:63:ILE:HG12	2.14	0.48
42:DG:83:ARG:C	42:DG:85:GLY:N	2.72	0.48
46:DN:83:LYS:CG	46:DN:84:LYS:H	2.20	0.48
46:DN:114:ARG:O	46:DN:117:PHE:HB3	2.14	0.48
46:DN:131:GLN:NE2	46:DN:133:GLN:CA	2.76	0.48
47:DO:53:LYS:HD2	47:DO:53:LYS:N	2.29	0.48
48:DP:78:PRO:HB2	48:DP:111:ARG:NH2	2.29	0.48
49:DQ:90:VAL:HG12	49:DQ:91:GLU:N	2.29	0.48
52:DT:23:ARG:HG2	52:DT:120:ARG:NH1	2.29	0.48
52:DT:111:ARG:HG3	52:DT:111:ARG:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:32:PHE:O	53:DU:36:ARG:HB2	2.14	0.48
53:DU:68:ALA:HB1	53:DU:106:PHE:HE2	1.78	0.48
54:DV:59:ALA:HA	54:DV:95:LEU:O	2.14	0.48
55:DW:10:VAL:HB	55:DW:101:SER:O	2.14	0.48
56:DX:36:LYS:NZ	56:DX:55:ASN:HA	2.29	0.48
57:DY:27:VAL:HG12	57:DY:28:LYS:N	2.29	0.48
1:AA:18:C:C5'	5:AE:127:ASN:ND2	2.71	0.47
1:AA:285:G:O2'	1:AA:286:G:H5'	2.13	0.47
1:AA:353:A:H2'	1:AA:354:G:OP2	2.14	0.47
1:AA:403:C:O2'	1:AA:404:U:H5'	2.14	0.47
1:AA:541:G:H2'	1:AA:542:G:H8	1.79	0.47
1:AA:713:G:O2'	1:AA:714:G:H5'	2.14	0.47
1:AA:828:A:H4'	1:AA:828:A:OP1	2.14	0.47
1:AA:940:C:H2'	1:AA:941:G:C8	2.48	0.47
1:AA:1269:A:C2'	1:AA:1270:C:H5'	2.44	0.47
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.29	0.47
1:AA:1472:U:H2'	1:AA:1473:A:O4'	2.14	0.47
5:AE:125:SER:OG	5:AE:126:ARG:N	2.46	0.47
7:AG:23:VAL:CG1	7:AG:43:PHE:CE2	2.96	0.47
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.78	0.47
10:AJ:49:VAL:O	10:AJ:49:VAL:CG1	2.61	0.47
16:AP:30:GLY:O	16:AP:31:LYS:C	2.54	0.47
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.46	0.47
18:AR:45:SER:N	18:AR:51:LEU:HG	2.29	0.47
25:AZ:132:VAL:HG23	25:AZ:210:ILE:HD11	1.94	0.47
25:AZ:259:ALA:CB	25:AZ:260:PRO:HD2	2.28	0.47
26:B0:27:GLU:CG	26:B0:68:GLU:HA	2.44	0.47
29:B3:13:ILE:HD13	36:BA:989:G:C5	2.49	0.47
29:B3:50:VAL:C	29:B3:52:HIS:H	2.21	0.47
32:B6:53:LYS:HE2	32:B6:54:ILE:HA	1.96	0.47
33:B7:20:ALA:O	33:B7:23:ARG:N	2.45	0.47
34:B8:28:GLY:N	36:BA:2393:A:OP1	2.47	0.47
34:B8:52:LYS:N	34:B8:53:PRO:CD	2.77	0.47
35:B9:25:VAL:HB	35:B9:34:GLN:HB3	1.94	0.47
36:BA:88:G:N3	36:BA:88:G:H2'	2.28	0.47
36:BA:206:U:H2'	36:BA:207:A:C8	2.49	0.47
36:BA:479:A:O2'	36:BA:481:G:C5'	2.61	0.47
36:BA:601:C:H5'	41:BF:108:LYS:HE3	1.96	0.47
36:BA:1119:C:H2'	36:BA:1120:G:C8	2.49	0.47
36:BA:1365:A:C6	36:BA:1366:A:C5	3.02	0.47
36:BA:1494:A:O2'	36:BA:1496:A:H2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1516:C:H2'	36:BA:1517:G:C5'	2.27	0.47
36:BA:1862:G:N2	36:BA:1881:C:C2	2.82	0.47
36:BA:1980:G:O2'	36:BA:1982:C:OP2	2.32	0.47
36:BA:1988:C:C2'	36:BA:1989:G:H5'	2.44	0.47
36:BA:2222:G:C2	36:BA:2223:G:C8	3.02	0.47
36:BA:2283:C:C2'	36:BA:2284:C:H5'	2.44	0.47
36:BA:2649:U:H2'	36:BA:2650:U:C6	2.49	0.47
36:BA:2654:A:N3	36:BA:2656:U:C4	2.81	0.47
36:BA:2776:A:H4'	36:BA:2778:A:H5''	1.95	0.47
36:BA:2807:G:C3'	36:BA:2808:U:C5'	2.88	0.47
36:BA:2822:G:O6	50:BR:4:LEU:HB3	2.14	0.47
38:BC:42:GLU:HB3	38:BC:44:HIS:NE2	2.28	0.47
39:BD:85:ASP:CG	39:BD:88:ARG:NH1	2.73	0.47
39:BD:96:HIS:CE1	39:BD:102:LYS:NZ	2.82	0.47
45:BK:99:UNK:O	45:BK:100:UNK:O	2.30	0.47
47:BO:79:PHE:CD2	52:BT:72:VAL:HG13	2.48	0.47
47:BO:104:ARG:CB	47:BO:104:ARG:CZ	2.91	0.47
48:BP:105:LEU:O	48:BP:106:LEU:CB	2.56	0.47
48:BP:108:LYS:HD2	48:BP:108:LYS:N	2.29	0.47
49:BQ:56:ARG:O	49:BQ:57:HIS:C	2.55	0.47
49:BQ:125:LEU:N	49:BQ:125:LEU:HD23	2.28	0.47
52:BT:133:GLU:O	52:BT:133:GLU:HG2	2.13	0.47
54:BV:38:LEU:O	54:BV:51:VAL:CG1	2.62	0.47
55:BW:64:MET:O	55:BW:109:GLU:HG2	2.14	0.47
58:BZ:100:VAL:HG11	58:BZ:137:ILE:HG12	1.95	0.47
58:BZ:118:GLN:CD	58:BZ:120:ILE:HD11	2.39	0.47
1:CA:92:C:H2'	1:CA:93:G:C8	2.47	0.47
1:CA:1414:U:O2'	1:CA:1415:G:H5'	2.14	0.47
1:CA:1418:A:N3	36:DA:1959:G:H1'	2.29	0.47
2:CB:87:ARG:HH21	2:CB:233:SER:H	1.60	0.47
2:CB:102:LEU:HD23	2:CB:182:ILE:HD13	1.96	0.47
2:CB:103:THR:OG1	2:CB:104:ASN:N	2.47	0.47
3:CC:47:LEU:HB3	3:CC:52:LEU:HD22	1.95	0.47
11:CK:105:VAL:O	11:CK:105:VAL:HG23	2.14	0.47
12:CL:60:LEU:C	12:CL:62:SER:N	2.71	0.47
16:CP:20:VAL:HA	16:CP:36:ILE:HG13	1.95	0.47
21:CU:5:ASP:C	21:CU:7:ARG:H	2.21	0.47
22:CV:28:G:H2'	22:CV:29:G:H8	1.79	0.47
25:CZ:8:THR:OG1	25:CZ:9:LYS:N	2.46	0.47
25:CZ:126:VAL:HG13	63:CZ:502:KIR:C47	2.44	0.47
26:D0:69:PHE:CE2	26:D0:79:VAL:HG22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:18:ILE:CG2	27:D1:19:GLN:H	2.26	0.47
35:D9:2:LYS:C	35:D9:34:GLN:HE22	2.22	0.47
36:DA:83:G:O2'	36:DA:84:A:H8	1.92	0.47
36:DA:428:A:H5'	36:DA:429:A:OP2	2.14	0.47
36:DA:590:A:H2'	36:DA:591:C:C6	2.48	0.47
36:DA:1563:G:H2'	36:DA:1564:C:H6	1.79	0.47
36:DA:1705:G:C2'	36:DA:1706:U:H5'	2.44	0.47
36:DA:1863:G:C2	36:DA:1880:C:O2	2.67	0.47
36:DA:2009:G:O2'	36:DA:2010:G:H5'	2.13	0.47
36:DA:2123:G:H1'	38:DC:172:HIS:CB	2.44	0.47
36:DA:2133:G:H3'	36:DA:2133:G:H8	1.79	0.47
36:DA:2620:C:H2'	36:DA:2621:A:O4'	2.14	0.47
37:DB:71:C:O2	37:DB:71:C:H2'	2.13	0.47
38:DC:6:ARG:HH11	38:DC:6:ARG:CG	2.25	0.47
39:DD:34:VAL:CG2	39:DD:35:LYS:H	2.22	0.47
39:DD:111:LEU:HD13	39:DD:111:LEU:C	2.39	0.47
39:DD:117:VAL:CG2	39:DD:118:VAL:N	2.77	0.47
39:DD:147:LEU:CG	39:DD:183:ARG:HH12	2.24	0.47
39:DD:209:ALA:O	39:DD:212:SER:HB2	2.14	0.47
39:DD:248:SER:HB2	39:DD:249:PRO:CD	2.42	0.47
39:DD:266:SER:C	39:DD:267:SER:O	2.57	0.47
41:DF:156:LEU:HD23	41:DF:167:ALA:HB2	1.96	0.47
46:DN:39:ARG:HE	46:DN:41:ASP:HB3	1.79	0.47
46:DN:108:PRO:HG2	46:DN:113:GLY:HA3	1.95	0.47
47:DO:1:MET:HG3	47:DO:67:LYS:HG2	1.96	0.47
48:DP:31:ALA:C	48:DP:33:ARG:H	2.22	0.47
48:DP:146:VAL:CG2	48:DP:147:LEU:H	1.96	0.47
49:DQ:58:PHE:N	49:DQ:58:PHE:CD1	2.78	0.47
51:DS:27:SER:O	51:DS:28:VAL:HG22	2.14	0.47
52:DT:51:ARG:NE	52:DT:100:TYR:OH	2.47	0.47
52:DT:70:VAL:HG12	52:DT:71:GLY:O	2.14	0.47
55:DW:14:PRO:O	55:DW:15:ARG:C	2.57	0.47
58:DZ:127:LYS:O	58:DZ:128:VAL:CB	2.62	0.47
1:AA:136:C:H2'	1:AA:137:C:H6	1.80	0.47
1:AA:138:G:H2'	1:AA:139:G:C8	2.49	0.47
1:AA:522:C:C2'	1:AA:523:A:H8	2.27	0.47
1:AA:670:G:C2	1:AA:671:G:C4	3.03	0.47
1:AA:684:A:C2	11:AK:39:PRO:HG2	2.49	0.47
1:AA:866:C:N4	1:AA:873:A:H2	2.11	0.47
1:AA:966:G:HO2'	1:AA:967:C:H6	1.57	0.47
1:AA:977:A:O2'	1:AA:978:A:C5'	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1048:G:OP1	14:AN:4:LYS:HB2	2.14	0.47
1:AA:1181:G:HO2'	1:AA:1182:G:H5'	1.79	0.47
2:AB:7:VAL:HA	2:AB:11:LEU:CG	2.42	0.47
2:AB:79:ASP:C	2:AB:81:VAL:N	2.72	0.47
2:AB:83:MET:C	2:AB:85:ALA:N	2.72	0.47
4:AD:126:ILE:C	4:AD:127:THR:HG1	2.20	0.47
14:AN:8:GLU:C	14:AN:10:ALA:N	2.72	0.47
14:AN:55:GLY:O	14:AN:56:VAL:C	2.56	0.47
16:AP:21:VAL:C	16:AP:22:THR:HG22	2.39	0.47
22:AV:34:G:O2'	22:AV:35:A:H5'	2.14	0.47
25:AZ:163:PHE:O	25:AZ:165:GLY:N	2.43	0.47
25:AZ:242:ILE:HB	25:AZ:282:ALA:HA	1.95	0.47
25:AZ:320:VAL:HG12	25:AZ:321:TYR:H	1.79	0.47
36:BA:80:G:H1'	36:BA:346:A:C6	2.49	0.47
36:BA:237:C:H2'	36:BA:238:C:H6	1.79	0.47
36:BA:284:U:O2'	36:BA:285:C:H5'	2.13	0.47
36:BA:532:A:H2'	36:BA:532:A:N3	2.28	0.47
36:BA:848:G:C4	36:BA:933:A:H1'	2.49	0.47
36:BA:979:G:H21	36:BA:985:C:N4	2.12	0.47
36:BA:1170:G:H5''	36:BA:1173:G:H22	1.79	0.47
36:BA:1221:C:H2'	36:BA:1221(A):C:H6	1.79	0.47
36:BA:1222:C:H2'	36:BA:1223:G:C5'	2.35	0.47
36:BA:1360:A:C6	36:BA:1372:U:C4	3.02	0.47
36:BA:1387:C:C4	36:BA:1401:G:N2	2.82	0.47
36:BA:1435:G:H1	36:BA:1557:C:N4	2.09	0.47
36:BA:2059:A:OP1	41:BF:71:GLY:HA3	2.14	0.47
36:BA:2074:U:H2'	36:BA:2075:U:C5	2.49	0.47
36:BA:2170:A:H5''	38:BC:134:ARG:NE	2.26	0.47
36:BA:2306:C:H4'	42:BG:136:ARG:HH12	1.78	0.47
36:BA:2419:U:H2'	36:BA:2420:C:H6	1.78	0.47
36:BA:2444:G:OP2	41:BF:68:LYS:NZ	2.48	0.47
36:BA:2830:G:H5'	40:BE:58:ARG:NH1	2.29	0.47
36:BA:2850:A:C6	36:BA:2869:G:H5'	2.48	0.47
38:BC:227:HIS:ND1	38:BC:227:HIS:N	2.62	0.47
39:BD:52:ARG:HB2	39:BD:53:PHE:CD2	2.49	0.47
39:BD:130:ALA:O	39:BD:131:LEU:HG	2.14	0.47
39:BD:261:LYS:HZ2	39:BD:263:ARG:HB2	1.76	0.47
42:BG:16:ARG:HG3	42:BG:16:ARG:HH11	1.79	0.47
42:BG:96:ARG:O	42:BG:97:ASP:HB2	2.14	0.47
42:BG:111:LEU:CB	42:BG:112:PRO:CD	2.92	0.47
42:BG:166:ASP:C	42:BG:168:GLU:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.45	0.47
50:BR:3:HIS:O	50:BR:4:LEU:C	2.58	0.47
52:BT:61:PHE:CZ	52:BT:76:PHE:HD1	2.31	0.47
53:BU:29:SER:O	53:BU:30:LYS:HD3	2.14	0.47
53:BU:52:ARG:NH2	53:BU:55:ARG:HH22	2.10	0.47
55:BW:68:ARG:O	55:BW:110:LYS:CB	2.62	0.47
1:CA:52:G:C6	1:CA:53:A:C5	3.01	0.47
1:CA:84:U:O2'	1:CA:88:A:H5'	2.14	0.47
1:CA:189:G:C6	1:CA:189(A):C:N4	2.83	0.47
1:CA:784:C:H2'	1:CA:785:G:H8	1.79	0.47
1:CA:786:G:N2	1:CA:787:A:H1'	2.29	0.47
1:CA:946:A:C6	1:CA:947:G:O6	2.68	0.47
1:CA:947:G:H2'	1:CA:948:C:H6	1.80	0.47
1:CA:967:C:H4'	9:CI:125:TYR:HE2	1.77	0.47
1:CA:1190:G:H5''	3:CC:3:ASN:HD22	1.79	0.47
1:CA:1287:A:H2'	1:CA:1288:A:H8	1.80	0.47
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.14	0.47
1:CA:1422:G:C2	1:CA:1423:G:C5	3.02	0.47
1:CA:1433:A:C6	1:CA:1468:A:C4	3.02	0.47
2:CB:86:GLU:C	2:CB:88:ALA:H	2.22	0.47
2:CB:106:LYS:HG2	2:CB:107:THR:H	1.76	0.47
2:CB:111:ARG:O	2:CB:112:VAL:C	2.57	0.47
2:CB:175:ARG:O	2:CB:176:GLU:C	2.57	0.47
4:CD:106:TYR:CE1	4:CD:113:SER:HA	2.49	0.47
5:CE:63:ARG:HA	5:CE:66:MET:SD	2.54	0.47
12:CL:32:PHE:O	12:CL:33:ARG:HB2	2.14	0.47
16:CP:12:LYS:C	16:CP:14:ASN:N	2.72	0.47
24:CY:5:A:H2'	24:CY:6:U:C6	2.49	0.47
24:CY:5:A:C2	24:CY:69:C:N3	2.82	0.47
25:CZ:132:VAL:HG23	25:CZ:210:ILE:HD11	1.94	0.47
25:CZ:200:TRP:C	25:CZ:202:LEU:N	2.67	0.47
32:D6:41:PRO:HG2	32:D6:47:THR:OG1	2.14	0.47
33:D7:43:THR:O	33:D7:44:PRO:C	2.57	0.47
34:D8:18:ALA:C	34:D8:20:GLY:H	2.19	0.47
34:D8:22:VAL:O	34:D8:49:VAL:HG23	2.14	0.47
34:D8:45:GLY:O	34:D8:46:ARG:O	2.32	0.47
36:DA:83:G:C2'	36:DA:102:G:H22	2.27	0.47
36:DA:500:G:N1	36:DA:503:A:OP2	2.46	0.47
36:DA:569:U:C4	36:DA:570:G:C6	3.02	0.47
36:DA:596:G:N1	36:DA:597:U:C2	2.83	0.47
36:DA:648:G:H2'	36:DA:649:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:674:G:H5''	41:DF:76:GLY:N	2.29	0.47
36:DA:1019:U:H3	36:DA:1142(A):A:N6	2.08	0.47
36:DA:1044:G:C3'	36:DA:1045:A:H5''	2.44	0.47
36:DA:1131:G:C2	46:DN:75:TYR:CB	2.96	0.47
36:DA:1307:A:C4	36:DA:1622:G:N2	2.82	0.47
36:DA:1344:G:C2	36:DA:1404:C:C2	3.02	0.47
36:DA:1476:C:H2'	36:DA:1477:A:H8	1.79	0.47
36:DA:1777:U:N3	36:DA:1778:U:C5	2.82	0.47
36:DA:2100:G:C4	36:DA:2190:G:C6	3.02	0.47
36:DA:2128:C:O2'	36:DA:2129:C:C6	2.67	0.47
36:DA:2447:G:C6	36:DA:2501:C:C2	3.02	0.47
36:DA:2588:G:C6	36:DA:2607:G:C2	3.02	0.47
36:DA:2589:A:H2'	36:DA:2590:A:O4'	2.14	0.47
36:DA:2618:G:H21	40:DE:150:VAL:HG21	1.80	0.47
36:DA:2720:U:H3'	36:DA:2721:A:H8	1.79	0.47
36:DA:2721:A:C2'	36:DA:2722:G:H8	2.27	0.47
37:DB:107:G:O2'	37:DB:108:U:H5'	2.14	0.47
38:DC:78:ALA:HB1	38:DC:82:LYS:HB2	1.95	0.47
38:DC:120:MET:SD	38:DC:123:VAL:HG11	2.55	0.47
40:DE:149:ARG:HG3	40:DE:149:ARG:NH1	2.29	0.47
41:DF:53:THR:CG2	41:DF:56:GLU:HG3	2.36	0.47
43:DH:42:ARG:CB	43:DH:42:ARG:HH11	2.27	0.47
43:DH:148:ILE:HG22	43:DH:162:ILE:CD1	2.44	0.47
47:DO:34:THR:O	47:DO:35:VAL:C	2.57	0.47
47:DO:80:ASP:OD2	52:DT:71:GLY:HA3	2.13	0.47
49:DQ:56:ARG:O	49:DQ:57:HIS:C	2.57	0.47
49:DQ:89:ASN:OD1	49:DQ:89:ASN:N	2.45	0.47
50:DR:21:TYR:N	50:DR:21:TYR:CD1	2.82	0.47
50:DR:76:VAL:CG1	50:DR:77:ARG:N	2.76	0.47
52:DT:83:ILE:CD1	52:DT:84:GLN:HG2	2.44	0.47
56:DX:46:ALA:C	56:DX:47:PHE:HD1	2.23	0.47
57:DY:38:ILE:HD13	57:DY:66:PRO:HG3	1.96	0.47
1:AA:356:A:H2'	1:AA:357:G:H8	1.80	0.47
1:AA:363:A:C2	12:AL:31:PRO:HG2	2.48	0.47
1:AA:525:C:N4	1:AA:526:C:N4	2.62	0.47
1:AA:540:G:C4	1:AA:541:G:C8	3.03	0.47
1:AA:667:G:O2'	15:AO:49:ASP:OD1	2.28	0.47
1:AA:928:G:C2	1:AA:1390:U:O2	2.68	0.47
1:AA:1055:A:N3	1:AA:1055:A:H2'	2.30	0.47
1:AA:1055:A:N7	1:AA:1206:G:C2	2.83	0.47
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:C4'	9:AI:120:ARG:HD2	2.42	0.47
1:AA:1353:G:C6	1:AA:1354:C:N4	2.82	0.47
1:AA:1353:G:C4	1:AA:1354:C:C5	3.02	0.47
1:AA:1421:G:C6	1:AA:1422:G:N7	2.82	0.47
1:AA:1460:A:N1	1:AA:1461:G:N3	2.62	0.47
1:AA:1503:A:H2'	23:AX:16:A:H62	1.79	0.47
2:AB:28:PHE:HD1	2:AB:28:PHE:O	1.98	0.47
2:AB:103:THR:OG1	2:AB:104:ASN:N	2.47	0.47
4:AD:150:GLU:CG	4:AD:151:LYS:N	2.77	0.47
5:AE:31:LEU:CD2	5:AE:43:LEU:HD11	2.44	0.47
10:AJ:5:ARG:O	10:AJ:99:LYS:HG2	2.15	0.47
12:AL:32:PHE:CD1	12:AL:86:ARG:HA	2.49	0.47
17:AQ:27:PHE:CD1	17:AQ:27:PHE:C	2.91	0.47
19:AS:13:ASP:O	19:AS:15:LEU:N	2.46	0.47
19:AS:66:MET:HE3	19:AS:74:PHE:CZ	2.48	0.47
25:AZ:286:VAL:HG23	25:AZ:287:GLY:N	2.28	0.47
28:B2:59:ARG:HB3	36:BA:76:C:O2'	2.14	0.47
29:B3:17:LYS:HG2	36:BA:969:U:OP1	2.13	0.47
32:B6:17:LYS:O	32:B6:18:ARG:CB	2.62	0.47
34:B8:62:LEU:HD13	36:BA:242:G:C5'	2.44	0.47
36:BA:251:A:H2'	36:BA:252:G:C5'	2.45	0.47
36:BA:329:G:N1	57:BY:19:LYS:HE3	2.27	0.47
36:BA:360:G:O2'	36:BA:361:G:H5'	2.15	0.47
36:BA:558:G:H2'	36:BA:559:G:H8	1.79	0.47
36:BA:614(A):U:C4'	36:BA:614(B):G:H5''	2.44	0.47
36:BA:979:G:N7	36:BA:981:A:OP1	2.47	0.47
36:BA:1021:A:C8	36:BA:1022:G:H4'	2.44	0.47
36:BA:1375:C:C2'	36:BA:1376:C:H5'	2.44	0.47
36:BA:2123:G:N2	38:BC:42:GLU:OE2	2.48	0.47
36:BA:2284:C:O2'	36:BA:2288:A:N6	2.48	0.47
36:BA:2335:A:C8	36:BA:2337:G:C6	3.02	0.47
36:BA:2399:G:C2	36:BA:2400:G:H1'	2.49	0.47
36:BA:2524:G:H5'	36:BA:2524:G:H8	1.79	0.47
36:BA:2841:C:H2'	36:BA:2842:G:H8	1.76	0.47
38:BC:203:GLY:O	38:BC:204:ALA:C	2.57	0.47
39:BD:65:ILE:HG22	39:BD:104:TYR:HB3	1.97	0.47
41:BF:110:LEU:CD1	41:BF:111:ALA:N	2.76	0.47
42:BG:44:GLY:N	42:BG:88:ILE:HG21	2.29	0.47
42:BG:60:LEU:HD11	42:BG:92:VAL:HG11	1.96	0.47
43:BH:65:HIS:CE1	43:BH:69:ARG:CZ	2.97	0.47
43:BH:105:LEU:O	43:BH:105:LEU:HG	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:152:ARG:HG3	43:BH:152:ARG:NH1	2.29	0.47
47:BO:34:THR:O	47:BO:35:VAL:C	2.57	0.47
48:BP:23:PRO:HB2	48:BP:33:ARG:HD2	1.95	0.47
48:BP:33:ARG:O	48:BP:34:GLY:C	2.56	0.47
49:BQ:50:ALA:C	49:BQ:52:VAL:N	2.71	0.47
50:BR:77:ARG:O	50:BR:79:LEU:N	2.46	0.47
51:BS:12:PHE:O	51:BS:14:VAL:N	2.47	0.47
51:BS:39:ILE:O	51:BS:40:ILE:HG23	2.15	0.47
55:BW:4:LYS:HA	55:BW:106:ILE:HG22	1.95	0.47
58:BZ:103:ARG:O	58:BZ:103:ARG:HG2	2.14	0.47
58:BZ:149:SER:O	58:BZ:150:LEU:O	2.33	0.47
1:CA:622:A:C8	1:CA:623:C:C6	3.03	0.47
1:CA:628:G:H2'	1:CA:629:G:H8	1.78	0.47
1:CA:790:A:H5'	22:CV:38:A:O3'	2.13	0.47
1:CA:1012:U:O2'	1:CA:1013:G:H5'	2.14	0.47
1:CA:1055:A:C8	1:CA:1206:G:N2	2.82	0.47
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.45	0.47
1:CA:1349:A:H2'	1:CA:1350:A:C8	2.49	0.47
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.13	0.47
2:CB:7:VAL:HA	2:CB:11:LEU:CG	2.42	0.47
2:CB:48:MET:N	2:CB:51:LEU:HD12	2.29	0.47
2:CB:167:PRO:O	2:CB:168:THR:C	2.56	0.47
2:CB:238:LEU:O	2:CB:238:LEU:HG	2.14	0.47
3:CC:162:GLN:O	3:CC:163:ALA:C	2.57	0.47
4:CD:150:GLU:CG	4:CD:151:LYS:N	2.77	0.47
4:CD:158:ILE:O	4:CD:162:LEU:HB2	2.14	0.47
7:CG:105:VAL:HG12	7:CG:109:ASN:ND2	2.29	0.47
14:CN:47:LEU:O	14:CN:49:HIS:N	2.47	0.47
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.79	0.47
18:CR:45:SER:N	18:CR:51:LEU:HG	2.29	0.47
25:CZ:313:HIS:CB	25:CZ:403:ILE:HG21	2.43	0.47
26:D0:19:LYS:HZ2	26:D0:21:LEU:HD21	1.78	0.47
27:D1:16:ASN:OD1	27:D1:38:SER:O	2.31	0.47
28:D2:5:GLU:HB2	28:D2:9:GLN:OE1	2.14	0.47
28:D2:7:ARG:HG2	28:D2:7:ARG:HH11	1.79	0.47
28:D2:32:LEU:CB	28:D2:53:LEU:HD22	2.44	0.47
31:D5:33:CYS:HG	31:D5:49:CYS:HG	1.62	0.47
34:D8:2:PRO:N	36:DA:667:U:O2	2.47	0.47
36:DA:189:G:H2'	36:DA:205:G:H22	1.78	0.47
36:DA:248:G:H5''	36:DA:386:G:N2	2.28	0.47
36:DA:265:A:H1'	36:DA:266:G:Cl'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:296:C:C2'	36:DA:297:C:H5'	2.44	0.47
36:DA:440:G:H21	41:DF:46:ARG:NH2	2.13	0.47
36:DA:449:A:C4	36:DA:450:G:C8	3.02	0.47
36:DA:565:C:H2'	36:DA:566:U:C6	2.48	0.47
36:DA:584:C:O5'	36:DA:584:C:H6	1.98	0.47
36:DA:1334:G:H2'	36:DA:1335:U:H6	1.78	0.47
36:DA:1342:A:C2	36:DA:1345:C:C4	3.03	0.47
36:DA:1591:G:H2'	36:DA:1592:C:H5'	1.96	0.47
36:DA:1902:C:H5''	39:DD:246:PRO:HD2	1.95	0.47
36:DA:1939:U:O2'	36:DA:1940:U:H5'	2.15	0.47
36:DA:1963:U:O2	36:DA:1963:U:H2'	2.14	0.47
36:DA:2114:A:C2'	36:DA:2115:G:H5'	2.44	0.47
36:DA:2641:G:OP1	46:DN:74:ARG:HG2	2.14	0.47
36:DA:2673:G:H2'	36:DA:2674:G:C8	2.48	0.47
36:DA:2791:C:H4'	36:DA:2792:G:O5'	2.14	0.47
36:DA:2815:C:H2'	36:DA:2816:C:C6	2.49	0.47
36:DA:2839:G:C5'	50:DR:46:GLY:HA2	2.44	0.47
36:DA:2850:A:C2	50:DR:61:HIS:CD2	3.00	0.47
37:DB:44:G:H4'	37:DB:45:A:H8	1.73	0.47
39:DD:110:GLY:O	39:DD:111:LEU:C	2.57	0.47
39:DD:221:VAL:O	39:DD:221:VAL:CG2	2.62	0.47
42:DG:34:LEU:HA	42:DG:161:THR:CG2	2.43	0.47
43:DH:83:TYR:CD1	43:DH:84:SER:N	2.82	0.47
43:DH:123:PHE:HD1	43:DH:123:PHE:N	2.13	0.47
46:DN:30:ILE:O	46:DN:34:LEU:HB2	2.14	0.47
51:DS:76:LYS:O	51:DS:77:ALA:C	2.57	0.47
55:DW:6:ILE:CG2	55:DW:7:ALA:N	2.77	0.47
55:DW:6:ILE:HA	55:DW:103:ILE:O	2.13	0.47
1:AA:59:A:H5''	1:AA:60:A:H5''	1.97	0.47
1:AA:130:A:C8	17:AQ:63:ARG:HG3	2.49	0.47
1:AA:194:C:O2'	20:AT:68:LYS:HD3	2.15	0.47
1:AA:525:C:H2'	1:AA:526:C:C6	2.49	0.47
1:AA:808:C:O2'	1:AA:809:G:H5'	2.14	0.47
1:AA:974:A:C8	14:AN:31:ARG:HD2	2.50	0.47
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.48	0.47
1:AA:1399:C:O2	1:AA:1401:G:C6	2.68	0.47
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.14	0.47
2:AB:83:MET:O	2:AB:85:ALA:N	2.47	0.47
2:AB:223:ILE:O	2:AB:226:ARG:HB3	2.14	0.47
3:AC:7:PRO:HG2	3:AC:184:TYR:CG	2.50	0.47
3:AC:68:VAL:O	3:AC:103:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.13	0.47
5:AE:47:LYS:N	5:AE:47:LYS:CD	2.71	0.47
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.44	0.47
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.47
12:AL:17:LYS:HZ2	12:AL:18:VAL:HG22	1.79	0.47
12:AL:126:LYS:C	12:AL:128:ALA:H	2.23	0.47
13:AM:14:ARG:HB2	13:AM:17:VAL:CG2	2.44	0.47
15:AO:37:ASN:HD22	15:AO:37:ASN:N	2.11	0.47
16:AP:53:VAL:CG2	16:AP:54:GLU:H	2.19	0.47
24:AY:51:C:H2'	24:AY:52:A:C8	2.49	0.47
25:AZ:200:TRP:C	25:AZ:202:LEU:N	2.66	0.47
25:AZ:279:GLU:O	25:AZ:280:GLY:C	2.56	0.47
26:B0:24:LYS:N	26:B0:37:LEU:O	2.44	0.47
28:B2:35:LEU:HD11	28:B2:50:ILE:CG1	2.29	0.47
28:B2:35:LEU:HA	28:B2:38:GLN:HG3	1.97	0.47
30:B4:6:HIS:HA	42:BG:67:LYS:CE	2.44	0.47
30:B4:33:VAL:CG1	30:B4:34:GLU:N	2.77	0.47
34:B8:13:ARG:CA	48:BP:63:PRO:HA	2.45	0.47
34:B8:50:LEU:N	34:B8:53:PRO:HG3	2.29	0.47
36:BA:83:G:C2'	36:BA:102:G:H22	2.26	0.47
36:BA:222:A:H2	36:BA:233:A:O3'	1.98	0.47
36:BA:252:G:P	48:BP:50:ARG:NH1	2.87	0.47
36:BA:280:C:H2'	36:BA:281:G:H5'	1.96	0.47
36:BA:478:A:N1	36:BA:500:G:H4'	2.29	0.47
36:BA:536:A:C2	36:BA:558:G:C6	3.02	0.47
36:BA:704:G:N3	36:BA:726:G:C2	2.82	0.47
36:BA:759:G:H8	36:BA:759:G:O5'	1.98	0.47
36:BA:783:A:H2'	36:BA:784:A:H4'	1.96	0.47
36:BA:980:A:C6	36:BA:981:A:C2	3.03	0.47
36:BA:1270:C:H5''	36:BA:1271:G:O5'	2.14	0.47
36:BA:1545:A:H2'	36:BA:1546:C:O4'	2.15	0.47
36:BA:1754:C:N3	36:BA:2716:U:O2'	2.40	0.47
36:BA:1816:G:H5'	39:BD:62:TYR:CE2	2.49	0.47
36:BA:1902:C:H2'	36:BA:1903:G:O5'	2.15	0.47
36:BA:1973:G:C6	36:BA:1974:C:N4	2.83	0.47
36:BA:2033:A:HO2'	36:BA:2034:U:P	2.37	0.47
36:BA:2101:G:C2'	36:BA:2102:U:H5''	2.44	0.47
36:BA:2121:G:C2	36:BA:2122:U:C4	3.02	0.47
36:BA:2139:C:H2'	36:BA:2140:C:C6	2.48	0.47
36:BA:2317:C:H3'	36:BA:2318:G:H21	1.79	0.47
40:BE:176:ILE:HG22	40:BE:178:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:25:PRO:HB3	41:BF:119:ARG:HA	1.97	0.47
41:BF:82:ILE:O	41:BF:83:PHE:HB2	2.11	0.47
49:BQ:51:ARG:CG	49:BQ:52:VAL:N	2.75	0.47
49:BQ:62:GLY:CA	58:BZ:116:VAL:HG11	2.45	0.47
50:BR:18:LEU:HD13	50:BR:18:LEU:C	2.39	0.47
50:BR:42:LYS:O	50:BR:45:ARG:CG	2.62	0.47
50:BR:73:VAL:HG12	50:BR:77:ARG:HH12	1.77	0.47
51:BS:18:ILE:HG13	51:BS:18:ILE:H	1.49	0.47
51:BS:22:GLY:O	51:BS:23:ARG:O	2.33	0.47
51:BS:42:ASP:O	51:BS:43:GLU:HB3	2.13	0.47
51:BS:68:GLN:C	51:BS:70:GLY:H	2.22	0.47
51:BS:74:ALA:O	51:BS:76:LYS:N	2.48	0.47
51:BS:76:LYS:O	51:BS:77:ALA:C	2.57	0.47
51:BS:98:VAL:O	51:BS:100:ALA:N	2.46	0.47
52:BT:78:LEU:H	52:BT:82:LEU:HD21	1.80	0.47
52:BT:119:LYS:O	52:BT:123:GLN:HG2	2.15	0.47
53:BU:92:ARG:NH2	54:BV:10:LYS:CB	2.77	0.47
58:BZ:108:PRO:C	58:BZ:110:GLY:H	2.22	0.47
1:CA:10:A:C2	1:CA:11:G:N7	2.82	0.47
1:CA:29:G:O2'	1:CA:30:U:H5'	2.15	0.47
1:CA:109:A:C8	1:CA:326:G:H2'	2.50	0.47
1:CA:334:C:O2'	1:CA:335:C:H5'	2.15	0.47
1:CA:808:C:O2'	1:CA:809:G:H5'	2.14	0.47
1:CA:904:C:H2'	1:CA:905:U:O4'	2.14	0.47
1:CA:926:G:C6	1:CA:1505:G:N7	2.83	0.47
1:CA:992:U:O2'	1:CA:993:G:P	2.72	0.47
1:CA:1124:G:H2'	1:CA:1145:C:N4	2.30	0.47
1:CA:1242:C:H2'	1:CA:1243:C:H6	1.70	0.47
1:CA:1351:U:O4	9:CI:118:LYS:NZ	2.47	0.47
1:CA:1492:A:C2	1:CA:1493:A:C2	3.03	0.47
2:CB:83:MET:C	2:CB:85:ALA:N	2.72	0.47
2:CB:187:LEU:HD13	2:CB:205:ASP:HA	1.95	0.47
2:CB:223:ILE:O	2:CB:226:ARG:N	2.47	0.47
3:CC:50:ALA:HB2	3:CC:75:VAL:HB	1.96	0.47
4:CD:24:GLU:H	4:CD:112:VAL:HG21	1.78	0.47
5:CE:77:PRO:O	5:CE:78:HIS:HB3	2.14	0.47
5:CE:136:MET:O	5:CE:139:LEU:N	2.47	0.47
8:CH:4:ASP:OD1	8:CH:4:ASP:C	2.57	0.47
8:CH:7:ALA:HB2	8:CH:85:ARG:CD	2.38	0.47
8:CH:20:TYR:HD1	8:CH:65:TYR:CE2	2.32	0.47
8:CH:39:LEU:O	8:CH:40:ALA:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.26	0.47
8:CH:123:GLU:O	8:CH:127:LEU:HB2	2.14	0.47
9:CI:121:ARG:NH1	9:CI:122:ALA:O	2.47	0.47
13:CM:36:LYS:C	13:CM:38:GLY:H	2.21	0.47
26:D0:25:ARG:HG3	26:D0:31:VAL:HG11	1.95	0.47
28:D2:32:LEU:O	28:D2:32:LEU:HD23	2.13	0.47
33:D7:19:ARG:HD3	36:DA:125:G:C5'	2.44	0.47
34:D8:13:ARG:CA	48:DP:63:PRO:HA	2.44	0.47
36:DA:185:U:H2'	36:DA:186:G:C8	2.50	0.47
36:DA:225:A:O2'	36:DA:226:G:H5'	2.14	0.47
36:DA:226:G:H5''	36:DA:257:A:O2'	2.15	0.47
36:DA:271(U):G:C4	36:DA:271(V):G:C8	3.01	0.47
36:DA:556:G:H2'	36:DA:557:U:C6	2.49	0.47
36:DA:576:U:OP1	36:DA:2503:A:OP1	2.32	0.47
36:DA:1268:A:H2'	36:DA:1269:A:C8	2.49	0.47
36:DA:1322:A:H2'	36:DA:1323:U:C6	2.50	0.47
36:DA:1494:A:O2'	36:DA:1496:A:H2	1.97	0.47
36:DA:1509(B):A:C2'	36:DA:1510:G:H5'	2.44	0.47
36:DA:1511:C:C5	36:DA:1512:U:H5	2.32	0.47
36:DA:1517:G:C5	36:DA:1518:U:C4	3.02	0.47
36:DA:1661:G:C6	36:DA:2000:G:C2	3.02	0.47
36:DA:1668:A:N6	36:DA:1676:A:H61	2.12	0.47
36:DA:1949:G:C6	36:DA:1950:G:C6	3.02	0.47
36:DA:2083:G:H2'	36:DA:2084:C:C6	2.49	0.47
36:DA:2335:A:C8	36:DA:2337:G:C6	3.02	0.47
36:DA:2359:C:C2	36:DA:2360:A:C8	3.02	0.47
36:DA:2512:C:H2'	36:DA:2513:G:O4'	2.14	0.47
36:DA:2627:G:N2	36:DA:2777:G:OP2	2.42	0.47
36:DA:2773:C:H5''	40:DE:164:ARG:CD	2.44	0.47
36:DA:2845:G:O2'	36:DA:2846:G:H5'	2.13	0.47
38:DC:42:GLU:HB3	38:DC:44:HIS:NE2	2.29	0.47
39:DD:96:HIS:CE1	39:DD:102:LYS:NZ	2.82	0.47
40:DE:4:ILE:HG12	40:DE:5:LEU:H	1.78	0.47
40:DE:23:VAL:CG1	40:DE:173:VAL:HG21	2.44	0.47
41:DF:122:LYS:CB	41:DF:191:ARG:HG3	2.43	0.47
42:DG:86:MET:N	42:DG:87:PRO:CD	2.75	0.47
42:DG:110:ALA:O	42:DG:111:LEU:HD23	2.13	0.47
43:DH:41:MET:HA	43:DH:55:PRO:HD3	1.96	0.47
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.45	0.47
46:DN:137:LYS:O	46:DN:138:LEU:HG	2.14	0.47
48:DP:106:LEU:HD11	48:DP:112:LEU:CD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:43:THR:HA	49:DQ:93:TYR:O	2.13	0.47
49:DQ:113:GLN:O	49:DQ:116:GLU:N	2.38	0.47
51:DS:53:SER:O	51:DS:56:LEU:HB3	2.14	0.47
51:DS:90:GLY:C	51:DS:92:TYR:H	2.21	0.47
53:DU:68:ALA:HB1	53:DU:106:PHE:CE2	2.49	0.47
56:DX:8:ILE:O	56:DX:9:LEU:C	2.56	0.47
1:AA:788:U:H2'	1:AA:789:U:C6	2.49	0.47
1:AA:923:A:N6	1:AA:924:C:N4	2.62	0.47
1:AA:979:C:C3'	1:AA:980:C:C5'	2.77	0.47
1:AA:1034:G:N2	1:AA:1035:A:C6	2.82	0.47
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.14	0.47
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.97	0.47
4:AD:14:ARG:HD2	4:AD:59:ARG:NH1	2.29	0.47
4:AD:64:LEU:O	4:AD:65:ARG:C	2.57	0.47
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.48	0.47
8:AH:64:LYS:HG2	8:AH:65:TYR:H	1.78	0.47
9:AI:11:LYS:C	9:AI:13:ALA:N	2.68	0.47
9:AI:20:ARG:O	9:AI:60:ASP:HB2	2.15	0.47
20:AT:100:ILE:O	20:AT:102:GLY:N	2.38	0.47
25:AZ:38:GLU:HB3	25:AZ:189:ARG:HH11	1.77	0.47
25:AZ:104:LEU:HD13	25:AZ:120:ILE:HD11	1.95	0.47
25:AZ:137:LYS:O	25:AZ:138:VAL:C	2.57	0.47
27:B1:51:VAL:HG23	27:B1:51:VAL:O	2.15	0.47
29:B3:7:LYS:C	29:B3:54:VAL:HG13	2.39	0.47
29:B3:10:LYS:HB3	29:B3:53:LEU:HD22	1.95	0.47
29:B3:14:GLY:O	36:BA:969:U:H4'	2.14	0.47
31:B5:33:CYS:SG	31:B5:49:CYS:SG	3.13	0.47
33:B7:11:LYS:CE	36:BA:686:G:H5''	2.44	0.47
33:B7:19:ARG:HD3	36:BA:125:G:C5'	2.44	0.47
36:BA:220:G:H2'	36:BA:427:U:O4	2.14	0.47
36:BA:326:G:H2'	36:BA:327:G:O4'	2.15	0.47
36:BA:701:G:H2'	36:BA:701:G:N3	2.30	0.47
36:BA:751:A:H5'	55:BW:90:ARG:CA	2.42	0.47
36:BA:793:A:N7	36:BA:2072:G:H5''	2.30	0.47
36:BA:848:G:H1'	36:BA:933:A:O2'	2.14	0.47
36:BA:1137:G:H2'	36:BA:1138:G:H8	1.76	0.47
36:BA:1205:U:C6	41:BF:171:PRO:HA	2.50	0.47
36:BA:1410:G:O2'	36:BA:1411:C:H5'	2.14	0.47
36:BA:1509(B):A:O2'	36:BA:1510:G:H5'	2.13	0.47
36:BA:1722:A:O2'	36:BA:1739:U:H5''	2.13	0.47
36:BA:2122:U:O2	38:BC:172:HIS:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2233:U:H2'	36:BA:2234:G:H8	1.75	0.47
36:BA:2305:A:O2'	42:BG:136:ARG:NE	2.48	0.47
36:BA:2432:A:C6	36:BA:2433:A:C6	3.03	0.47
36:BA:2539:C:H2'	36:BA:2540:C:H6	1.79	0.47
36:BA:2540:C:O2	36:BA:2740:A:H2	1.97	0.47
36:BA:2596:U:H3'	36:BA:2597:G:C8	2.49	0.47
39:BD:91:ARG:CG	39:BD:91:ARG:NH1	2.75	0.47
39:BD:118:VAL:HG22	39:BD:119:ALA:N	2.29	0.47
39:BD:148:GLU:HB2	39:BD:151:LYS:HD2	1.96	0.47
41:BF:31:HIS:C	41:BF:33:LEU:N	2.71	0.47
43:BH:101:ARG:HG2	43:BH:117:PRO:CG	2.35	0.47
46:BN:101:HIS:O	46:BN:103:VAL:N	2.48	0.47
47:BO:71:ARG:HE	47:BO:105:GLU:CD	2.23	0.47
48:BP:59:LEU:CA	48:BP:61:ARG:NE	2.62	0.47
48:BP:69:GLY:O	48:BP:70:GLN:C	2.56	0.47
49:BQ:22:LYS:H	58:BZ:78:LYS:CE	2.19	0.47
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.14	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:HB3	1.95	0.47
53:BU:68:ALA:HB1	53:BU:106:PHE:CE2	2.49	0.47
53:BU:102:GLU:HB3	53:BU:105:VAL:CG2	2.44	0.47
54:BV:36:PRO:HA	54:BV:56:SER:HB3	1.97	0.47
57:BY:46:LYS:CB	57:BY:62:GLU:HG2	2.40	0.47
57:BY:68:HIS:ND1	57:BY:70:SER:HB3	2.29	0.47
57:BY:75:ILE:HA	57:BY:79:CYS:O	2.13	0.47
58:BZ:42:VAL:HG22	58:BZ:43:GLU:N	2.29	0.47
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.31	0.47
1:CA:398:C:H2'	1:CA:399:G:H8	1.79	0.47
1:CA:446:G:C2'	1:CA:447:G:H5'	2.45	0.47
1:CA:901:A:C5	1:CA:902:G:H1'	2.49	0.47
1:CA:1274:G:N2	1:CA:1275:A:N6	2.63	0.47
1:CA:1506:U:O2'	1:CA:1507:A:O5'	2.25	0.47
2:CB:44:LEU:O	2:CB:47:THR:CB	2.62	0.47
2:CB:155:LEU:CD2	2:CB:159:PRO:HG3	2.43	0.47
2:CB:194:PRO:O	2:CB:195:ASP:C	2.57	0.47
3:CC:16:ARG:HH21	3:CC:183:ASP:CA	2.24	0.47
3:CC:56:ASP:C	3:CC:57:ILE:HG13	2.40	0.47
3:CC:131:ARG:NH2	3:CC:167:TRP:O	2.48	0.47
3:CC:132:ARG:HE	3:CC:132:ARG:HB2	1.44	0.47
4:CD:60:GLU:HG2	4:CD:202:LEU:HB2	1.95	0.47
4:CD:159:ARG:HG3	4:CD:159:ARG:HH11	1.78	0.47
5:CE:110:LEU:O	5:CE:115:VAL:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:97:GLN:O	7:CG:98:SER:C	2.56	0.47
7:CG:105:VAL:O	7:CG:107:ALA:N	2.46	0.47
10:CJ:9:ARG:HA	10:CJ:68:HIS:O	2.14	0.47
15:CO:39:LEU:CD2	15:CO:43:LEU:HG	2.44	0.47
20:CT:45:GLN:NE2	20:CT:46:GLU:N	2.63	0.47
22:CW:53:G:C2	22:CW:54:U:N3	2.81	0.47
24:CY:50:G:N2	24:CY:65:C:H1'	2.29	0.47
25:CZ:179:LEU:HG	25:CZ:179:LEU:O	2.15	0.47
25:CZ:219:LYS:HB2	25:CZ:244:ARG:HB2	1.95	0.47
27:D1:41:ARG:O	27:D1:43:TYR:CD2	2.67	0.47
30:D4:5:ILE:O	30:D4:5:ILE:CG1	2.60	0.47
31:D5:17:ASP:HB2	36:DA:16:G:H5''	1.96	0.47
34:D8:17:THR:O	34:D8:20:GLY:N	2.46	0.47
34:D8:23:VAL:HG13	34:D8:47:LYS:N	2.29	0.47
35:D9:12:ASP:C	35:D9:14:CYS:N	2.69	0.47
36:DA:26:G:H1'	36:DA:515:A:H61	1.79	0.47
36:DA:80:G:H1'	36:DA:346:A:C6	2.49	0.47
36:DA:89:G:H8	36:DA:89:G:O5'	1.98	0.47
36:DA:118:A:H5'	36:DA:119:A:C8	2.49	0.47
36:DA:204:A:OP1	36:DA:206:U:H1'	2.15	0.47
36:DA:270:A:C2'	36:DA:271:A:H5'	2.45	0.47
36:DA:972:G:H8	36:DA:972:G:O5'	1.97	0.47
36:DA:1205:U:C6	41:DF:171:PRO:HA	2.49	0.47
36:DA:1277:G:O2'	36:DA:1278:A:H5'	2.15	0.47
36:DA:1543:C:C3'	36:DA:1544:A:C5'	2.87	0.47
36:DA:1668:A:N7	36:DA:1674:G:C6	2.83	0.47
36:DA:1722:A:H2	36:DA:1740:G:H2'	1.78	0.47
36:DA:1792:G:OP2	39:DD:206:LEU:HD12	2.14	0.47
36:DA:1884:A:C3'	36:DA:1885:A:H5''	2.44	0.47
36:DA:2139:C:H2'	36:DA:2140:C:C6	2.50	0.47
36:DA:2189:U:H3'	36:DA:2190:G:C5'	2.45	0.47
36:DA:2203:U:H2'	36:DA:2203:U:O2	2.14	0.47
36:DA:2493:U:H2'	36:DA:2494:G:O4'	2.14	0.47
36:DA:2496:C:P	49:DQ:83:MET:HG2	2.54	0.47
36:DA:2590:A:O2'	36:DA:2591:C:H5'	2.13	0.47
36:DA:2650:U:H2'	36:DA:2651:C:C6	2.50	0.47
36:DA:2847:U:OP1	52:DT:98:LYS:HD3	2.14	0.47
38:DC:82:LYS:HA	38:DC:85:GLU:HB3	1.97	0.47
38:DC:227:HIS:ND1	38:DC:227:HIS:N	2.63	0.47
39:DD:204:ILE:HG13	39:DD:204:ILE:O	2.13	0.47
39:DD:261:LYS:HZ2	39:DD:263:ARG:HB2	1.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:60:LEU:HA	42:DG:63:ILE:HD11	1.97	0.47
43:DH:12:PRO:CA	43:DH:48:GLY:HA2	2.45	0.47
43:DH:101:ARG:HG2	43:DH:117:PRO:CG	2.35	0.47
46:DN:58:ASP:C	46:DN:60:ILE:N	2.59	0.47
52:DT:11:GLU:CD	52:DT:11:GLU:N	2.72	0.47
54:DV:2:PHE:HB3	54:DV:41:GLY:O	2.14	0.47
54:DV:19:LYS:NZ	54:DV:21:ARG:O	2.48	0.47
58:DZ:42:VAL:HG13	58:DZ:43:GLU:H	1.79	0.47
1:AA:44:G:H1'	1:AA:399:G:N2	2.30	0.47
1:AA:224:C:H2'	1:AA:225:C:C6	2.50	0.47
1:AA:307:C:O2	1:AA:307:C:C2'	2.63	0.47
1:AA:865:A:C2'	1:AA:866:C:H5'	2.44	0.47
1:AA:1139:G:H4'	1:AA:1140:C:H6	1.79	0.47
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.44	0.47
1:AA:1477:C:O2'	1:AA:1478:C:H5'	2.14	0.47
3:AC:63:ASN:C	3:AC:64:VAL:HG23	2.40	0.47
4:AD:96:LEU:HG	4:AD:139:ARG:NH2	2.29	0.47
4:AD:187:ARG:HG2	4:AD:188:LEU:N	2.30	0.47
5:AE:64:ARG:HA	5:AE:66:MET:HE2	1.97	0.47
5:AE:90:VAL:O	5:AE:120:THR:HA	2.13	0.47
7:AG:140:ASP:HA	7:AG:143:ARG:HB2	1.97	0.47
10:AJ:9:ARG:HA	10:AJ:68:HIS:O	2.15	0.47
10:AJ:12:ASP:C	10:AJ:14:LYS:N	2.71	0.47
14:AN:21:TYR:CD1	14:AN:21:TYR:N	2.83	0.47
15:AO:17:ARG:HG3	15:AO:17:ARG:NH1	2.30	0.47
15:AO:74:ASP:OD1	15:AO:77:ARG:HG2	2.15	0.47
17:AQ:99:SER:O	17:AQ:100:LYS:CG	2.63	0.47
19:AS:40:ILE:HD13	19:AS:66:MET:O	2.14	0.47
20:AT:26:ASN:HB2	20:AT:71:THR:CG2	2.45	0.47
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.15	0.47
24:AY:69:C:H2'	24:AY:70:A:C8	2.50	0.47
25:AZ:155:ARG:HG2	25:AZ:155:ARG:HH11	1.79	0.47
25:AZ:278:GLN:OE1	25:AZ:278:GLN:HA	2.14	0.47
25:AZ:339:ARG:CZ	25:AZ:352:VAL:HG22	2.45	0.47
26:B0:10:THR:HG22	26:B0:12:ASN:N	2.28	0.47
28:B2:4:SER:HA	28:B2:7:ARG:HD2	1.97	0.47
34:B8:10:ALA:C	34:B8:12:LYS:H	2.20	0.47
36:BA:204:A:OP1	36:BA:204:A:H8	1.96	0.47
36:BA:296:C:N4	36:BA:343:C:H42	2.13	0.47
36:BA:621:A:C2'	36:BA:622:G:H5'	2.45	0.47
36:BA:646:A:H3'	36:BA:647:G:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:856:C:H2'	36:BA:857:C:H6	1.78	0.47
36:BA:986:C:O2'	36:BA:987:G:H5'	2.14	0.47
36:BA:1027:A:N3	36:BA:1027:A:C2'	2.75	0.47
36:BA:1668:A:N6	36:BA:1676:A:H61	2.12	0.47
36:BA:2009:G:H4'	55:BW:40:ASN:HD21	1.75	0.47
36:BA:2815:C:H2'	36:BA:2815:C:O2	2.13	0.47
36:BA:2822:G:H2'	36:BA:2823:A:C5'	2.33	0.47
38:BC:64:LEU:HD13	38:BC:188:ASN:ND2	2.29	0.47
38:BC:199:HIS:O	38:BC:201:PRO:N	2.48	0.47
39:BD:94:LEU:HD23	39:BD:103:ARG:O	2.14	0.47
39:BD:112:GLN:O	39:BD:115:GLN:HB2	2.15	0.47
39:BD:142:VAL:HG21	39:BD:191:ALA:HB1	1.97	0.47
42:BG:27:ASN:C	42:BG:29:TRP:N	2.73	0.47
42:BG:61:ALA:O	42:BG:62:LEU:C	2.58	0.47
43:BH:42:ARG:CB	43:BH:42:ARG:HH11	2.27	0.47
43:BH:83:TYR:CD1	43:BH:84:SER:N	2.82	0.47
46:BN:71:ILE:HA	46:BN:86:PRO:HA	1.97	0.47
48:BP:78:PRO:HB2	48:BP:111:ARG:NH2	2.27	0.47
49:BQ:63:LYS:HE3	49:BQ:65:PHE:HE1	1.79	0.47
50:BR:55:ALA:HB1	50:BR:79:LEU:HD11	1.96	0.47
52:BT:65:LYS:HG3	52:BT:66:VAL:N	2.28	0.47
53:BU:52:ARG:CZ	53:BU:55:ARG:NH2	2.72	0.47
54:BV:91:TYR:HE1	54:BV:93:GLU:HG3	1.79	0.47
56:BX:10:ALA:O	56:BX:28:PHE:HB2	2.15	0.47
58:BZ:162:GLU:O	58:BZ:163:LEU:O	2.33	0.47
1:CA:245:C:O2'	1:CA:246:A:P	2.73	0.47
1:CA:419:C:H2'	1:CA:420:U:H5'	1.96	0.47
1:CA:660:G:C4	1:CA:661:G:C8	3.03	0.47
1:CA:738:C:H2'	1:CA:739:C:C6	2.50	0.47
1:CA:994:A:N7	1:CA:1216:G:H4'	2.29	0.47
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.50	0.47
1:CA:1164:G:C2	1:CA:1165:C:C4	3.02	0.47
1:CA:1452:C:H5'	1:CA:1456:G:C4	2.49	0.47
2:CB:17:PHE:HD2	2:CB:17:PHE:C	2.21	0.47
2:CB:22:LYS:CE	2:CB:40:HIS:CE1	2.98	0.47
2:CB:111:ARG:O	2:CB:115:LEU:N	2.46	0.47
2:CB:132:LYS:O	2:CB:136:VAL:HG23	2.15	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:NE2	2.29	0.47
5:CE:144:THR:O	5:CE:145:LYS:C	2.58	0.47
9:CI:116:LYS:HA	9:CI:123:PRO:HD3	1.96	0.47
11:CK:32:ILE:HG22	11:CK:33:THR:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:65:ALA:HB1	11:CK:98:LEU:CD2	2.45	0.47
12:CL:75:HIS:HD2	12:CL:77:LEU:HB2	1.79	0.47
13:CM:29:ARG:HA	13:CM:32:GLU:OE2	2.14	0.47
15:CO:11:VAL:HG12	15:CO:12:ILE:N	2.29	0.47
20:CT:26:ASN:HB2	20:CT:71:THR:CG2	2.43	0.47
24:CY:55:PSU:O4	24:CY:55:PSU:H5'	2.14	0.47
24:CY:64:C:H4'	25:CZ:391:GLY:HA2	1.97	0.47
25:CZ:140:MET:HA	25:CZ:140:MET:HE2	1.97	0.47
26:D0:47:PRO:O	26:D0:78:TYR:CD2	2.66	0.47
27:D1:17:SER:HG	27:D1:38:SER:HB2	1.79	0.47
27:D1:50:ARG:NH1	36:DA:2200:C:C5'	2.78	0.47
31:D5:44:THR:CG2	50:DR:101:ALA:HB2	2.39	0.47
32:D6:15:GLU:HG3	32:D6:47:THR:OG1	2.13	0.47
34:D8:5:LYS:HB3	36:DA:254:G:O6	2.15	0.47
36:DA:58:G:H2'	36:DA:59:U:H6	1.78	0.47
36:DA:135:G:C2	36:DA:145:G:C2	3.02	0.47
36:DA:332:A:O2'	36:DA:333:G:O5'	2.33	0.47
36:DA:340:A:C2	36:DA:341:G:H1'	2.50	0.47
36:DA:373:U:H2'	36:DA:374:A:H8	1.79	0.47
36:DA:463:G:C2	36:DA:467:G:C6	3.02	0.47
36:DA:536:A:C2	36:DA:558:G:C6	3.02	0.47
36:DA:1054:A:C6	36:DA:1106:G:O6	2.67	0.47
36:DA:1326:U:O2'	36:DA:1327:C:H5'	2.14	0.47
36:DA:1624:G:C4	36:DA:1625:C:C5	3.02	0.47
36:DA:1668:A:C5	36:DA:1674:G:C5	3.03	0.47
36:DA:1772:G:N2	36:DA:1774:C:C5'	2.78	0.47
36:DA:2148:G:O2'	36:DA:2149:G:H5'	2.15	0.47
36:DA:2159:G:H2'	36:DA:2160:G:C5'	2.45	0.47
36:DA:2200:C:H5'	36:DA:2201:C:OP2	2.14	0.47
36:DA:2259:G:C2	36:DA:2282:G:C6	3.02	0.47
36:DA:2578:G:H4'	36:DA:2578:G:OP2	2.14	0.47
36:DA:2708:G:C4	36:DA:2709:G:N7	2.83	0.47
38:DC:63:SER:HA	38:DC:160:ARG:CA	2.37	0.47
39:DD:240:ALA:HB1	39:DD:241:PRO:HD2	1.97	0.47
40:DE:24:THR:OG1	40:DE:186:GLY:HA2	2.14	0.47
40:DE:27:LEU:HD22	52:DT:1:MET:HB2	1.95	0.47
41:DF:7:TYR:HE1	41:DF:196:LEU:HD11	1.78	0.47
41:DF:9:ILE:HA	41:DF:13:SER:O	2.15	0.47
41:DF:132:VAL:HG13	41:DF:133:ASN:H	1.79	0.47
41:DF:168:ARG:HA	41:DF:175:THR:HG21	1.96	0.47
46:DN:101:HIS:O	46:DN:103:VAL:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:84:ASN:ND2	48:DP:116:GLY:HA3	2.30	0.47
49:DQ:48:GLU:O	49:DQ:52:VAL:HG23	2.15	0.47
51:DS:28:VAL:CG1	51:DS:29:PHE:H	2.16	0.47
53:DU:40:PHE:HB3	54:DV:75:PHE:CE1	2.48	0.47
55:DW:80:PRO:O	55:DW:100:THR:HG22	2.15	0.47
57:DY:59:GLY:O	57:DY:60:PHE:CD1	2.68	0.47
1:AA:68:G:H5'	1:AA:171:A:H1'	1.95	0.47
1:AA:166:G:H2'	1:AA:167:G:C8	2.50	0.47
1:AA:397:A:H3'	1:AA:397:A:N3	2.30	0.47
1:AA:398:C:H6	1:AA:398:C:H3'	1.80	0.47
1:AA:408:A:H4'	4:AD:112:VAL:CG1	2.37	0.47
1:AA:445:G:C6	1:AA:490:G:C6	3.03	0.47
1:AA:507:C:OP2	1:AA:508:C:H3'	2.15	0.47
1:AA:590:C:OP1	8:AH:30:ARG:N	2.40	0.47
1:AA:628:G:H2'	1:AA:629:G:H8	1.80	0.47
1:AA:722:A:N3	1:AA:722:A:H2'	2.29	0.47
1:AA:782:A:H2'	1:AA:783:C:H5'	1.96	0.47
1:AA:913:A:H1'	1:AA:914:A:O4'	2.14	0.47
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.38	0.47
1:AA:1049:U:O2	1:AA:1201:A:C4	2.67	0.47
1:AA:1095:U:H2'	1:AA:1096:C:O4'	2.15	0.47
1:AA:1249:C:H5'	1:AA:1249:C:C6	2.39	0.47
1:AA:1274:G:N2	1:AA:1275:A:N6	2.61	0.47
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.50	0.47
1:AA:1418:A:H3'	1:AA:1419:G:O4'	2.14	0.47
1:AA:1433:A:N6	1:AA:1468:A:C8	2.82	0.47
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.15	0.47
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.14	0.47
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.80	0.47
1:AA:1526:G:C2	1:AA:1527:C:C5	3.03	0.47
2:AB:11:LEU:C	2:AB:13:ALA:N	2.72	0.47
2:AB:92:TYR:CD1	2:AB:151:GLY:HA3	2.49	0.47
2:AB:114:ARG:HH11	2:AB:118:LEU:HD21	1.79	0.47
2:AB:168:THR:CG2	2:AB:192:SER:HA	2.44	0.47
3:AC:28:GLN:O	3:AC:29:TYR:C	2.58	0.47
4:AD:49:ARG:O	4:AD:50:ARG:C	2.57	0.47
4:AD:135:LEU:C	4:AD:137:SER:H	2.22	0.47
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	1.97	0.47
5:AE:76:ILE:HG12	5:AE:78:HIS:N	2.22	0.47
7:AG:79:ARG:NH2	22:AW:33:U:H4'	2.30	0.47
7:AG:118:VAL:O	7:AG:121:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:20:TYR:HD1	8:AH:65:TYR:CE2	2.33	0.47
9:AI:52:ALA:HB3	9:AI:95:LYS:CE	2.29	0.47
11:AK:25:TYR:CE1	11:AK:87:THR:HB	2.43	0.47
12:AL:32:PHE:HD1	12:AL:86:ARG:HA	1.78	0.47
13:AM:35:GLU:CG	13:AM:36:LYS:N	2.78	0.47
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	2.28	0.47
15:AO:74:ASP:OD2	15:AO:76:GLU:N	2.45	0.47
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.97	0.47
20:AT:27:LYS:HD3	20:AT:27:LYS:O	2.14	0.47
20:AT:100:ILE:C	20:AT:102:GLY:H	2.22	0.47
22:AV:2:C:H2'	22:AV:2:C:O2	2.13	0.47
22:AV:52:G:H1	22:AV:62:C:H42	1.63	0.47
24:AY:5:A:C2	24:AY:69:C:N3	2.82	0.47
24:AY:64:C:O4'	25:AZ:391:GLY:HA2	2.14	0.47
25:AZ:112:PRO:HG3	25:AZ:153:GLU:OE1	2.14	0.47
25:AZ:196:VAL:O	25:AZ:200:TRP:CD1	2.67	0.47
25:AZ:258:LEU:HD23	25:AZ:376:LYS:CB	2.40	0.47
25:AZ:267:VAL:O	25:AZ:267:VAL:HG13	2.13	0.47
25:AZ:313:HIS:CG	25:AZ:403:ILE:HG21	2.50	0.47
25:AZ:399:VAL:O	25:AZ:399:VAL:HG13	2.13	0.47
26:B0:23:VAL:HG13	26:B0:38:VAL:HG22	1.97	0.47
27:B1:23:LYS:HD3	27:B1:28:GLY:HA3	1.97	0.47
27:B1:37:ILE:HD12	27:B1:37:ILE:H	1.80	0.47
28:B2:26:ARG:O	28:B2:26:ARG:HG2	2.14	0.47
28:B2:63:VAL:O	28:B2:64:LEU:C	2.57	0.47
33:B7:19:ARG:NE	36:BA:124:G:H2'	2.29	0.47
34:B8:3:LYS:HD3	36:BA:242:G:H5''	1.96	0.47
34:B8:23:VAL:HG13	34:B8:47:LYS:N	2.29	0.47
35:B9:10:ILE:O	35:B9:11:CYS:CB	2.63	0.47
35:B9:12:ASP:C	35:B9:14:CYS:N	2.71	0.47
36:BA:25:U:H5'	55:BW:78:GLU:O	2.15	0.47
36:BA:28:A:H1'	36:BA:513:A:C2	2.50	0.47
36:BA:85:G:OP1	57:BY:9:LYS:HB2	2.14	0.47
36:BA:321:G:C1'	41:BF:168:ARG:HH21	2.27	0.47
36:BA:343:C:H2'	36:BA:343:C:O2	2.14	0.47
36:BA:444:C:O3'	53:BU:2:PRO:N	2.48	0.47
36:BA:661:C:H2'	36:BA:662:G:H8	1.79	0.47
36:BA:728:G:C2	36:BA:730:C:C2	3.03	0.47
36:BA:807:U:H2'	36:BA:808:G:C8	2.49	0.47
36:BA:904:C:C6	36:BA:904:C:OP2	2.67	0.47
36:BA:910:A:N6	49:BQ:11:LYS:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:933:A:H2'	36:BA:934:G:O4'	2.14	0.47
36:BA:940:G:H2'	36:BA:941:A:O4'	2.15	0.47
36:BA:993:G:H4'	54:BV:70:ILE:HD12	1.97	0.47
36:BA:996:A:C1'	53:BU:92:ARG:HE	2.27	0.47
36:BA:1309:G:O2'	36:BA:1310:G:H5'	2.14	0.47
36:BA:1545:A:N7	36:BA:1546:C:C2	2.82	0.47
36:BA:1624:G:C4	36:BA:1625:C:C5	3.03	0.47
36:BA:1645:G:H5''	36:BA:1646:C:H5'	1.97	0.47
36:BA:1680:U:O2	36:BA:1763:G:H3'	2.15	0.47
36:BA:1720:U:H2'	36:BA:1721:G:C4'	2.44	0.47
36:BA:1799:G:H5'	36:BA:1819:A:N6	2.27	0.47
36:BA:2023:G:C5'	36:BA:2617:C:H4'	2.43	0.47
36:BA:2128:C:O2'	36:BA:2129:C:H6	1.97	0.47
36:BA:2149:G:C2'	36:BA:2150:U:H5'	2.45	0.47
36:BA:2313:C:H5'	36:BA:2313:C:C6	2.48	0.47
36:BA:2359:C:C2	36:BA:2360:A:C8	3.02	0.47
36:BA:2513:G:N1	36:BA:2514:U:C2	2.83	0.47
36:BA:2578:G:H4'	36:BA:2578:G:OP2	2.15	0.47
36:BA:2641:G:OP2	46:BN:74:ARG:CZ	2.63	0.47
37:BB:87:G:C3'	37:BB:88:C:H5''	2.45	0.47
39:BD:23:GLU:OE1	39:BD:23:GLU:HA	2.14	0.47
39:BD:80:ALA:O	39:BD:113:VAL:HG11	2.15	0.47
39:BD:117:VAL:HG22	39:BD:118:VAL:N	2.28	0.47
39:BD:142:VAL:HG23	39:BD:192:THR:C	2.39	0.47
39:BD:267:SER:HA	39:BD:270:ILE:CG1	2.45	0.47
40:BE:69:LYS:C	40:BE:71:GLY:N	2.73	0.47
42:BG:76:SER:HB3	42:BG:83:ARG:HB3	1.95	0.47
42:BG:100:TRP:O	42:BG:102:PHE:N	2.47	0.47
43:BH:123:PHE:N	43:BH:123:PHE:HD1	2.13	0.47
46:BN:18:ALA:HB1	46:BN:26:LEU:HD22	1.96	0.47
47:BO:7:TYR:CE1	47:BO:20:MET:HB2	2.50	0.47
48:BP:111:ARG:HH11	48:BP:149:GLU:CG	2.19	0.47
48:BP:112:LEU:HD13	48:BP:112:LEU:C	2.40	0.47
49:BQ:18:LYS:HB3	49:BQ:98:LYS:HZ1	1.80	0.47
49:BQ:53:ALA:CB	49:BQ:124:LYS:HE3	2.45	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:N	2.29	0.47
53:BU:47:TYR:HA	53:BU:50:ARG:HB2	1.96	0.47
53:BU:52:ARG:HG2	53:BU:55:ARG:HH12	1.80	0.47
53:BU:112:ARG:O	53:BU:115:ALA:HB3	2.15	0.47
54:BV:28:GLU:HB3	54:BV:29:PRO:HD2	1.95	0.47
55:BW:71:VAL:C	55:BW:73:ALA:N	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:17:SER:OG	57:BY:18:GLY:N	2.43	0.47
57:BY:26:LYS:HG2	57:BY:27:VAL:H	1.79	0.47
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.97	0.47
58:BZ:90:VAL:HG12	58:BZ:91:LEU:N	2.29	0.47
58:BZ:126:VAL:HA	58:BZ:163:LEU:HB2	1.97	0.47
1:CA:37:U:O2'	1:CA:38:G:H5'	2.14	0.47
1:CA:59:A:H5''	1:CA:60:A:H5''	1.97	0.47
1:CA:261:U:O2	1:CA:263:A:H8	1.98	0.47
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.80	0.47
1:CA:409:G:OP1	4:CD:22:LYS:HB3	2.15	0.47
1:CA:581:G:C6	1:CA:758:G:N7	2.83	0.47
1:CA:665:A:N3	1:CA:732:C:H2'	2.30	0.47
1:CA:682:G:C6	1:CA:683:G:N7	2.83	0.47
1:CA:692:U:H3	11:CK:53:SER:HB3	1.79	0.47
1:CA:946:A:C2	1:CA:1236:A:C2	3.03	0.47
1:CA:955:U:O2	1:CA:1225:A:N1	2.47	0.47
1:CA:963:G:H1	1:CA:972:C:N4	2.11	0.47
1:CA:982:U:H4'	1:CA:983:A:C5'	2.43	0.47
1:CA:1239:A:H4'	1:CA:1240:U:C5'	2.45	0.47
1:CA:1318:A:C1'	19:CS:37:ARG:HH21	2.28	0.47
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.44	0.47
1:CA:1353:G:H2'	1:CA:1354:C:C5	2.50	0.47
1:CA:1460:A:C2	1:CA:1461:G:H1'	2.50	0.47
1:CA:1499:A:H8	1:CA:1499:A:O5'	1.97	0.47
2:CB:104:ASN:O	2:CB:105:PHE:C	2.57	0.47
3:CC:44:GLU:O	3:CC:45:LYS:C	2.56	0.47
3:CC:134:ILE:HG21	3:CC:168:ALA:HB3	1.96	0.47
4:CD:91:SER:O	4:CD:94:LEU:N	2.48	0.47
4:CD:135:LEU:C	4:CD:137:SER:N	2.69	0.47
4:CD:200:GLU:HG2	4:CD:201:GLN:H	1.79	0.47
5:CE:50:GLU:HB3	5:CE:53:LEU:HB2	1.96	0.47
5:CE:76:ILE:HD12	5:CE:91:LEU:HB3	1.96	0.47
6:CF:23:LYS:HA	6:CF:26:ILE:HD12	1.96	0.47
6:CF:37:VAL:C	6:CF:38:GLU:HG3	2.40	0.47
7:CG:37:ASN:O	7:CG:38:LEU:C	2.58	0.47
7:CG:50:ILE:C	7:CG:52:GLU:H	2.23	0.47
8:CH:38:ILE:O	8:CH:42:GLU:HG2	2.14	0.47
8:CH:127:LEU:HD13	8:CH:127:LEU:O	2.15	0.47
9:CI:36:TYR:O	9:CI:37:PHE:CD2	2.67	0.47
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.78	0.47
10:CJ:12:ASP:O	10:CJ:14:LYS:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:30:SER:O	10:CJ:81:THR:HG22	2.15	0.47
10:CJ:45:ARG:NE	14:CN:36:PHE:CD2	2.83	0.47
12:CL:23:LYS:C	12:CL:24:VAL:HG23	2.40	0.47
12:CL:32:PHE:CB	12:CL:84:LEU:HD21	2.45	0.47
13:CM:116:THR:C	13:CM:117:VAL:HG23	2.40	0.47
15:CO:67:LEU:HB3	15:CO:78:TYR:HE1	1.79	0.47
16:CP:3:LYS:HB3	16:CP:65:GLN:O	2.15	0.47
16:CP:49:LEU:HD22	16:CP:73:LEU:HD22	1.96	0.47
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.25	0.47
18:CR:37:VAL:CG1	18:CR:78:LEU:HB3	2.45	0.47
20:CT:58:LYS:O	20:CT:61:SER:HB3	2.14	0.47
21:CU:18:TYR:CD2	21:CU:22:ARG:NE	2.82	0.47
22:CV:2:C:H2'	22:CV:2:C:O2	2.15	0.47
22:CV:34:G:C2'	22:CV:35:A:H5'	2.45	0.47
22:CW:19:G:H4'	22:CW:20:U:OP2	2.14	0.47
25:CZ:93:ILE:HG23	25:CZ:126:VAL:HG21	1.97	0.47
25:CZ:162:GLU:HG3	63:CZ:502:KIR:H151	1.96	0.47
26:D0:67:VAL:HG13	26:D0:81:VAL:HG22	1.95	0.47
27:D1:3:LYS:HA	36:DA:1365:A:OP2	2.15	0.47
27:D1:33:LYS:CD	27:D1:33:LYS:H	2.27	0.47
27:D1:44:PRO:O	27:D1:46:LEU:N	2.47	0.47
27:D1:82:LEU:HD12	27:D1:82:LEU:HA	1.70	0.47
29:D3:4:LEU:N	29:D3:37:LEU:O	2.33	0.47
31:D5:38:ALA:HB2	31:D5:48:GLU:HB3	1.93	0.47
32:D6:11:LEU:HG	32:D6:51:GLU:HG2	1.97	0.47
35:D9:29:ASN:C	35:D9:29:ASN:HD22	2.19	0.47
36:DA:251:A:H5''	48:DP:51:PHE:CZ	2.49	0.47
36:DA:297:C:H2'	36:DA:298:G:O4'	2.14	0.47
36:DA:445:C:H5''	53:DU:3:ARG:HB2	1.97	0.47
36:DA:477:A:H2'	36:DA:478:A:H8	1.80	0.47
36:DA:493:G:O2'	55:DW:7:ALA:HA	2.15	0.47
36:DA:587:C:H4'	36:DA:588:U:OP2	2.14	0.47
36:DA:606:U:H4'	36:DA:658:C:O2'	2.15	0.47
36:DA:630:G:H2'	36:DA:632:A:OP2	2.15	0.47
36:DA:687:C:C5	36:DA:688:U:C4	3.02	0.47
36:DA:996:A:C1'	53:DU:92:ARG:HE	2.28	0.47
36:DA:1132:A:C8	36:DA:1133:U:H5	2.33	0.47
36:DA:1222:C:OP2	54:DV:88:ARG:NH2	2.48	0.47
36:DA:1257:C:H4'	41:DF:83:PHE:CD2	2.50	0.47
36:DA:1275:A:N3	36:DA:1276:A:H1'	2.30	0.47
36:DA:1298:C:H1'	36:DA:1302:A:C2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1331:A:O2'	36:DA:1332:G:C8	2.66	0.47
36:DA:1352:U:O2'	36:DA:1353:A:H5'	2.15	0.47
36:DA:1375:C:C2'	36:DA:1376:C:H5'	2.45	0.47
36:DA:1493:C:C4	36:DA:2206:G:O2'	2.68	0.47
36:DA:1497:U:H2'	36:DA:1497:U:O2	2.15	0.47
36:DA:1525:G:H2'	36:DA:1526:G:C8	2.50	0.47
36:DA:1592:C:H2'	36:DA:1593:G:C8	2.47	0.47
36:DA:1782:C:O2'	36:DA:1783:A:H5'	2.15	0.47
36:DA:1877:A:H3'	36:DA:1878:G:O4'	2.14	0.47
36:DA:1902:C:H2'	36:DA:1903:G:O5'	2.13	0.47
36:DA:2033:A:O2'	36:DA:2034:U:OP1	2.32	0.47
36:DA:2041:U:H2'	36:DA:2042:A:H8	1.79	0.47
36:DA:2057:A:H2'	36:DA:2058:A:C8	2.49	0.47
36:DA:2236:C:H2'	36:DA:2237:G:O4'	2.15	0.47
36:DA:2250:G:N7	49:DQ:83:MET:HG3	2.29	0.47
36:DA:2283:C:H2'	36:DA:2284:C:O4'	2.14	0.47
36:DA:2352:A:C5	36:DA:2366:A:N1	2.83	0.47
36:DA:2392:A:C2	36:DA:2429:G:C4	3.03	0.47
36:DA:2557:G:C2'	36:DA:2558:C:H5'	2.45	0.47
36:DA:2651:C:O5'	36:DA:2651:C:H6	1.97	0.47
36:DA:2652:C:C4	36:DA:2653:U:C4	3.02	0.47
36:DA:2745:C:O3'	43:DH:142:GLY:HA3	2.15	0.47
36:DA:2808:U:H5'	36:DA:2891:G:O6	2.14	0.47
36:DA:2870:C:H5'	50:DR:65:LEU:HD21	1.97	0.47
37:DB:73:A:C2	37:DB:74:U:H1'	2.49	0.47
38:DC:7:TYR:CE2	38:DC:11:LEU:HD21	2.49	0.47
38:DC:20:TYR:H	38:DC:20:TYR:HD1	1.60	0.47
38:DC:150:GLY:O	38:DC:154:ARG:HG2	2.15	0.47
39:DD:96:HIS:HE1	39:DD:102:LYS:NZ	2.13	0.47
39:DD:187:GLY:C	39:DD:189:CYS:H	2.22	0.47
40:DE:199:ARG:HB2	40:DE:199:ARG:NH1	2.30	0.47
41:DF:128:ALA:O	41:DF:129:PHE:CG	2.67	0.47
41:DF:203:GLN:C	41:DF:205:ARG:N	2.66	0.47
42:DG:61:ALA:O	42:DG:62:LEU:C	2.57	0.47
42:DG:103:LEU:CD2	42:DG:106:LEU:HD23	2.45	0.47
43:DH:144:VAL:HA	43:DH:147:ASN:HB2	1.97	0.47
43:DH:152:ARG:O	43:DH:162:ILE:HG22	2.14	0.47
46:DN:68:GLU:HA	46:DN:86:PRO:HB2	1.96	0.47
47:DO:99:PHE:CD1	47:DO:99:PHE:N	2.81	0.47
48:DP:23:PRO:HD2	48:DP:33:ARG:CZ	2.44	0.47
48:DP:52:GLU:CG	48:DP:53:GLY:H	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DQ:43:THR:OG1	49:DQ:46:GLN:CG	2.63	0.47
50:DR:2:ARG:HD3	50:DR:5:LYS:NZ	2.30	0.47
50:DR:2:ARG:HH11	50:DR:2:ARG:N	2.13	0.47
52:DT:22:PHE:HA	52:DT:90:GLN:OE1	2.15	0.47
52:DT:33:LYS:HG3	52:DT:43:GLN:HB2	1.96	0.47
53:DU:37:GLU:HA	53:DU:40:PHE:HE1	1.77	0.47
53:DU:52:ARG:NH2	53:DU:55:ARG:NH2	2.62	0.47
53:DU:71:GLN:HG2	53:DU:71:GLN:O	2.14	0.47
55:DW:72:LYS:O	55:DW:73:ALA:CB	2.62	0.47
57:DY:73:ARG:HA	57:DY:73:ARG:NE	2.27	0.47
58:DZ:28:MET:HE1	58:DZ:33:LEU:HG	1.96	0.47
1:AA:163:C:O2'	1:AA:164:U:H5'	2.15	0.47
1:AA:836:G:C5	1:AA:851:G:C6	3.02	0.47
1:AA:987:G:H2'	1:AA:988:G:C8	2.44	0.47
1:AA:993:G:H4'	1:AA:994:A:OP2	2.15	0.47
1:AA:1050:G:N2	1:AA:1051:C:C2	2.83	0.47
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.15	0.47
1:AA:1087:G:H22	1:AA:1099:G:H1'	1.79	0.47
1:AA:1128:C:N4	1:AA:1139:G:H2'	2.29	0.47
1:AA:1152:A:H5''	10:AJ:13:HIS:CB	2.44	0.47
1:AA:1424:C:C2	1:AA:1425:U:C5	3.02	0.47
4:AD:106:TYR:CE1	4:AD:113:SER:HA	2.49	0.47
7:AG:97:GLN:O	7:AG:98:SER:C	2.58	0.47
9:AI:6:GLY:HA3	9:AI:84:ALA:CB	2.44	0.47
15:AO:55:GLY:O	15:AO:56:LEU:C	2.58	0.47
16:AP:23:ASP:OD1	16:AP:25:ARG:NH1	2.48	0.47
19:AS:51:VAL:CG1	19:AS:52:TYR:H	2.24	0.47
20:AT:42:GLN:HB2	20:AT:42:GLN:HE21	1.54	0.47
22:AV:19:G:N1	42:BG:83:ARG:NH2	2.62	0.47
22:AW:31:A:O2'	22:AW:32:U:H5'	2.14	0.47
22:AW:54:U:C4'	38:BC:54:SER:HB2	2.44	0.47
23:AX:22:A:N6	24:AY:36:U:H3	2.12	0.47
24:AY:77:THR:HG22	25:AZ:239:THR:HB	1.96	0.47
25:AZ:21:ASP:HA	62:AZ:501:GDP:H5'	1.96	0.47
26:B0:43:THR:CG2	36:BA:2332:U:H5'	2.45	0.47
27:B1:18:ILE:CG2	27:B1:19:GLN:N	2.78	0.47
32:B6:12:GLU:CB	32:B6:23:THR:HG22	2.45	0.47
35:B9:1:MET:HA	35:B9:4:ARG:CZ	2.44	0.47
36:BA:265:A:H1'	36:BA:266:G:C1'	2.44	0.47
36:BA:271(V):G:C6	36:BA:271(W):G:C2	3.03	0.47
36:BA:347:A:H2'	36:BA:348:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:449:A:C4	36:BA:450:G:C8	3.02	0.47
36:BA:664:C:H1'	36:BA:940:G:OP1	2.14	0.47
36:BA:1400:G:C6	36:BA:1401:G:C6	3.03	0.47
36:BA:1538:G:H2'	36:BA:1539:G:C8	2.50	0.47
36:BA:1662:C:H2'	36:BA:1663:C:C6	2.50	0.47
36:BA:2136:C:O2'	36:BA:2137:C:H5'	2.15	0.47
36:BA:2533:A:H2'	36:BA:2534:A:O4'	2.15	0.47
36:BA:2818:G:OP2	50:BR:42:LYS:NZ	2.46	0.47
36:BA:2839:G:H2'	36:BA:2840:C:C6	2.49	0.47
37:BB:17:C:H42	37:BB:68:C:N4	2.00	0.47
38:BC:63:SER:HA	38:BC:160:ARG:CA	2.38	0.47
38:BC:108:MET:O	38:BC:109:ASP:O	2.32	0.47
40:BE:55:ASN:HD22	40:BE:55:ASN:HA	1.57	0.47
40:BE:129:HIS:O	40:BE:130:GLY:O	2.33	0.47
41:BF:156:LEU:HD23	41:BF:167:ALA:HB2	1.97	0.47
41:BF:159:GLY:C	41:BF:164:ARG:HH21	2.22	0.47
42:BG:62:LEU:HD12	42:BG:62:LEU:N	2.29	0.47
48:BP:16:ARG:NH1	48:BP:16:ARG:O	2.47	0.47
48:BP:107:LYS:O	48:BP:109:GLY:N	2.48	0.47
49:BQ:62:GLY:HA2	58:BZ:116:VAL:HG11	1.96	0.47
50:BR:36:THR:HB	50:BR:40:LYS:HD2	1.97	0.47
51:BS:66:ALA:O	51:BS:67:ARG:C	2.57	0.47
52:BT:8:LYS:HA	52:BT:11:GLU:OE1	2.15	0.47
52:BT:117:ASP:OD1	52:BT:119:LYS:HB3	2.15	0.47
55:BW:28:SER:HA	55:BW:70:TYR:HB2	1.97	0.47
55:BW:41:LYS:O	55:BW:43:GLY:N	2.47	0.47
56:BX:20:GLY:O	56:BX:22:ALA:N	2.47	0.47
58:BZ:117:LEU:CD1	58:BZ:172:ALA:HB1	2.45	0.47
1:CA:357:G:OP1	1:CA:366:C:O2'	2.32	0.47
1:CA:445:G:H2'	1:CA:446:G:C8	2.48	0.47
1:CA:786:G:H2'	1:CA:787:A:O4'	2.15	0.47
1:CA:894:G:H2'	1:CA:895:G:O4'	2.15	0.47
1:CA:964:A:OP1	1:CA:1199:U:OP1	2.33	0.47
1:CA:1014:A:H2	1:CA:1219:U:H1'	1.80	0.47
1:CA:1262:C:H42	1:CA:1273:G:H1	1.63	0.47
1:CA:1425:U:O5'	1:CA:1425:U:H6	1.98	0.47
2:CB:155:LEU:HD21	2:CB:159:PRO:HG3	1.96	0.47
2:CB:170:GLU:C	2:CB:172:ILE:N	2.70	0.47
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.63	0.47
5:CE:107:ARG:C	5:CE:109:ILE:H	2.22	0.47
7:CG:27:ILE:HG23	7:CG:40:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:33:GLU:O	8:CH:34:GLU:C	2.57	0.47
8:CH:86:ILE:HG21	8:CH:133:LEU:CD2	2.35	0.47
9:CI:10:ARG:HD2	9:CI:75:ASP:OD1	2.14	0.47
9:CI:78:LYS:HE3	9:CI:101:PHE:CE2	2.50	0.47
9:CI:102:LEU:O	9:CI:102:LEU:HD23	2.14	0.47
20:CT:56:MET:SD	20:CT:85:MET:HB3	2.55	0.47
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.15	0.47
22:CW:17:C:N4	36:DA:2110:G:N2	2.59	0.47
25:CZ:92:MET:O	25:CZ:95:GLY:N	2.46	0.47
25:CZ:171:ILE:HD12	25:CZ:171:ILE:N	2.30	0.47
27:D1:18:ILE:CD1	27:D1:20:ARG:NH2	2.78	0.47
28:D2:25:VAL:C	28:D2:27:GLU:H	2.22	0.47
29:D3:2:PRO:O	29:D3:3:ARG:O	2.33	0.47
31:D5:3:LYS:HA	31:D5:3:LYS:CE	2.34	0.47
32:D6:19:ARG:NH2	36:DA:2401:U:OP1	2.47	0.47
34:D8:7:HIS:C	34:D8:9:GLY:N	2.73	0.47
36:DA:123:G:C6	36:DA:124:G:C5	3.03	0.47
36:DA:261:G:O4'	36:DA:609:A:H2	1.97	0.47
36:DA:307:G:H8	36:DA:307:G:O5'	1.98	0.47
36:DA:431:U:O5'	36:DA:431:U:H6	1.98	0.47
36:DA:572:A:C5'	54:DV:78:LYS:NZ	2.78	0.47
36:DA:664:C:H4'	36:DA:941:A:P	2.55	0.47
36:DA:747:U:H4'	55:DW:89:ALA:HB3	1.97	0.47
36:DA:992:C:C2	36:DA:1163:G:N2	2.83	0.47
36:DA:1132:A:C8	36:DA:1133:U:C5	3.02	0.47
36:DA:1720:U:H3'	36:DA:1721:G:H5''	1.96	0.47
36:DA:1800:C:H42	36:DA:1817:G:N2	2.13	0.47
36:DA:2069:G:N2	36:DA:2070:G:C4	2.83	0.47
36:DA:2140:C:H2'	36:DA:2141:G:C8	2.49	0.47
36:DA:2359:C:C4	36:DA:2360:A:C5	3.03	0.47
36:DA:2388:A:H5'	36:DA:2389:G:OP2	2.14	0.47
36:DA:2402:C:O2'	36:DA:2403:C:H5'	2.14	0.47
36:DA:2639:A:H3'	36:DA:2640:G:C8	2.49	0.47
36:DA:2754:U:H2'	36:DA:2756:U:OP1	2.14	0.47
39:DD:24:ILE:CD1	39:DD:25:THR:N	2.77	0.47
40:DE:69:LYS:C	40:DE:71:GLY:N	2.73	0.47
41:DF:107:LYS:O	41:DF:110:LEU:N	2.47	0.47
42:DG:26:GLN:HG2	42:DG:27:ASN:H	1.78	0.47
42:DG:170:ARG:NE	42:DG:180:PHE:CE1	2.83	0.47
47:DO:8:LEU:HD22	47:DO:19:ILE:HG13	1.97	0.47
47:DO:105:GLU:O	47:DO:109:LYS:CG	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:107:ASP:OD2	52:DT:108:ARG:HG2	2.14	0.47
54:DV:75:PHE:HB2	54:DV:82:ARG:HG3	1.95	0.47
56:DX:49:VAL:CB	56:DX:87:GLN:NE2	2.78	0.47
56:DX:54:VAL:HG12	56:DX:55:ASN:N	2.29	0.47
57:DY:28:LYS:HA	57:DY:38:ILE:HG22	1.97	0.47
1:AA:15:G:H2'	1:AA:16:A:H8	1.80	0.47
1:AA:45:U:H2'	1:AA:46:G:H8	1.79	0.47
1:AA:123:C:H6	1:AA:123:C:O5'	1.98	0.47
1:AA:540:G:O2'	1:AA:541:G:H5'	2.15	0.47
1:AA:681:C:O2'	1:AA:682:G:H5'	2.15	0.47
1:AA:851:G:C4	1:AA:852:G:C8	3.03	0.47
1:AA:1150:U:O4	1:AA:1151:A:N6	2.48	0.47
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.14	0.47
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.96	0.47
1:AA:1242:C:H2'	1:AA:1243:C:H6	1.78	0.47
1:AA:1279:A:H2	10:AJ:43:ARG:HH12	1.62	0.47
1:AA:1466:C:O2'	1:AA:1467:G:H5'	2.15	0.47
3:AC:18:TRP:HB2	3:AC:21:ARG:HB3	1.96	0.47
4:AD:52:SER:C	4:AD:54:TYR:N	2.71	0.47
4:AD:70:ILE:HD12	4:AD:97:LEU:HD21	1.97	0.47
4:AD:79:PHE:CD2	4:AD:207:TYR:CD1	3.02	0.47
4:AD:196:LEU:C	4:AD:198:VAL:H	2.22	0.47
6:AF:93:SER:C	6:AF:94:GLN:HG3	2.39	0.47
9:AI:18:PHE:O	9:AI:19:LEU:HD23	2.15	0.47
10:AJ:30:SER:O	10:AJ:81:THR:HG22	2.15	0.47
10:AJ:62:HIS:O	14:AN:59:ALA:HB3	2.15	0.47
14:AN:21:TYR:CE2	14:AN:23:ARG:NH2	2.83	0.47
15:AO:28:GLN:O	15:AO:31:LEU:HB3	2.14	0.47
19:AS:35:SER:O	19:AS:37:ARG:N	2.48	0.47
22:AW:66:U:H2'	22:AW:67:C:H6	1.80	0.47
25:AZ:208:GLU:O	25:AZ:209:TYR:HB3	2.14	0.47
25:AZ:215:ARG:O	25:AZ:216:ASP:C	2.57	0.47
26:B0:30:VAL:CG1	26:B0:66:VAL:HG23	2.45	0.47
28:B2:32:LEU:CB	28:B2:53:LEU:HD22	2.44	0.47
28:B2:48:HIS:C	28:B2:50:ILE:H	2.23	0.47
28:B2:57:ILE:HG22	28:B2:61:LEU:HD11	1.97	0.47
30:B4:30:GLU:C	30:B4:31:ILE:HD12	2.40	0.47
31:B5:31:VAL:HG11	36:BA:2886:G:N2	2.25	0.47
32:B6:15:GLU:HG3	32:B6:47:THR:OG1	2.13	0.47
34:B8:49:VAL:HB	34:B8:53:PRO:HG3	1.97	0.47
36:BA:121:G:H4'	36:BA:149:A:H5'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:466:A:C2'	36:BA:467:G:H5'	2.45	0.47
36:BA:1053:C:C5	36:BA:1054:A:N7	2.83	0.47
36:BA:1323:U:C2'	36:BA:1324:G:H5'	2.45	0.47
36:BA:1360:A:N6	36:BA:1372:U:C4	2.82	0.47
36:BA:1515:G:H2'	36:BA:1516:C:C6	2.49	0.47
36:BA:2007:C:H5'	36:BA:2824:C:O4'	2.14	0.47
36:BA:2050:C:H1'	40:BE:156:MET:HE1	1.97	0.47
36:BA:2208:A:N3	36:BA:2219:G:C6	2.83	0.47
36:BA:2485:G:C5'	49:BQ:46:GLN:HE21	2.27	0.47
36:BA:2497:A:OP2	36:BA:2497:A:C8	2.67	0.47
36:BA:2754:U:H2'	36:BA:2756:U:OP1	2.15	0.47
36:BA:2851:A:C2'	36:BA:2852:G:H5'	2.44	0.47
38:BC:7:TYR:CE2	38:BC:11:LEU:HD21	2.50	0.47
39:BD:11:PRO:C	39:BD:13:ARG:N	2.73	0.47
40:BE:52:LEU:O	40:BE:74:PRO:CB	2.63	0.47
41:BF:49:ALA:HB1	41:BF:92:PRO:HB3	1.97	0.47
41:BF:62:ARG:HG2	41:BF:62:ARG:NH1	2.30	0.47
42:BG:40:ASN:OD1	42:BG:40:ASN:C	2.56	0.47
42:BG:171:ALA:O	42:BG:172:LEU:C	2.58	0.47
43:BH:148:ILE:HG22	43:BH:162:ILE:HD13	1.97	0.47
48:BP:9:ASN:N	48:BP:10:PRO:CD	2.72	0.47
48:BP:106:LEU:HD11	48:BP:112:LEU:CD2	2.44	0.47
49:BQ:10:ARG:NH1	49:BQ:10:ARG:CB	2.77	0.47
49:BQ:55:VAL:HA	49:BQ:58:PHE:HE1	1.80	0.47
50:BR:17:ARG:HB3	50:BR:17:ARG:HH11	1.80	0.47
50:BR:56:LYS:C	50:BR:58:GLY:N	2.73	0.47
50:BR:73:VAL:CG1	50:BR:77:ARG:HH12	2.28	0.47
51:BS:89:ARG:HG3	51:BS:92:TYR:CB	2.44	0.47
53:BU:74:LEU:HD12	53:BU:74:LEU:C	2.40	0.47
57:BY:14:LEU:HD12	57:BY:15:VAL:H	1.79	0.47
1:CA:674:G:H2'	1:CA:675:A:C8	2.50	0.47
1:CA:750:G:C2	15:CO:23:GLY:HA3	2.49	0.47
1:CA:889:A:H4'	1:CA:890:G:OP1	2.13	0.47
1:CA:1245:A:H2'	1:CA:1246:C:H6	1.80	0.47
1:CA:1305:G:C8	1:CA:1305:G:OP2	2.68	0.47
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.78	0.47
1:CA:1412:C:N4	1:CA:1488:G:H1	1.96	0.47
1:CA:1430:C:O2'	1:CA:1431:C:H5'	2.14	0.47
2:CB:74:LYS:HG3	2:CB:74:LYS:O	2.15	0.47
3:CC:25:GLY:O	3:CC:26:LYS:C	2.57	0.47
4:CD:145:GLU:CG	4:CD:184:LYS:HG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:11:ILE:HD12	5:CE:31:LEU:HD11	1.94	0.47
8:CH:20:TYR:HE2	8:CH:75:ARG:CD	2.27	0.47
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	1.97	0.47
8:CH:104:ARG:O	8:CH:105:ARG:C	2.58	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CG	2.23	0.47
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.63	0.47
16:CP:52:ASP:O	16:CP:53:VAL:C	2.58	0.47
16:CP:53:VAL:O	16:CP:54:GLU:C	2.57	0.47
22:CW:16:U:C4	22:CW:19:G:OP1	2.68	0.47
24:CY:48:C:C2'	24:CY:59:A:H1'	2.33	0.47
25:CZ:38:GLU:OE1	25:CZ:200:TRP:CH2	2.67	0.47
25:CZ:137:LYS:HD3	62:CZ:501:GDP:C2	2.50	0.47
25:CZ:196:VAL:O	25:CZ:200:TRP:CD1	2.68	0.47
25:CZ:316:PHE:HA	25:CZ:404:LEU:H	1.78	0.47
25:CZ:342:PHE:N	25:CZ:342:PHE:CD1	2.83	0.47
26:D0:51:VAL:HG22	26:D0:81:VAL:HG23	1.97	0.47
27:D1:94:LEU:C	27:D1:96:LYS:N	2.71	0.47
28:D2:30:ARG:O	28:D2:33:MET:HB3	2.15	0.47
29:D3:2:PRO:O	29:D3:3:ARG:C	2.57	0.47
30:D4:28:LYS:HA	30:D4:28:LYS:HE3	1.95	0.47
32:D6:20:ASN:C	32:D6:21:TYR:CD1	2.92	0.47
32:D6:53:LYS:HE2	32:D6:54:ILE:HA	1.97	0.47
36:DA:37:C:O2	36:DA:444:C:C2	2.68	0.47
36:DA:115:C:O2'	36:DA:116:C:H5'	2.15	0.47
36:DA:310:A:O2'	36:DA:311:A:O5'	2.32	0.47
36:DA:363:G:C2	36:DA:363(A):A:C8	3.03	0.47
36:DA:558:G:H2'	36:DA:559:G:H8	1.80	0.47
36:DA:591:C:H2'	36:DA:592:G:H8	1.80	0.47
36:DA:593:G:C2'	36:DA:594:U:H5'	2.45	0.47
36:DA:769:G:C4'	36:DA:1379:A:N6	2.77	0.47
36:DA:1298:C:C1'	36:DA:1302:A:C2	2.98	0.47
36:DA:2787:C:C2'	40:DE:61:ARG:HD3	2.45	0.47
36:DA:2815:C:H2'	36:DA:2815:C:O2	2.14	0.47
37:DB:81:G:C6	37:DB:97:G:C2	3.03	0.47
38:DC:178:ALA:O	38:DC:180:PHE:N	2.48	0.47
39:DD:127:VAL:HA	39:DD:193:VAL:HG13	1.95	0.47
39:DD:267:SER:O	39:DD:269:PHE:N	2.38	0.47
40:DE:57:LYS:HE2	40:DE:59:VAL:CG1	2.43	0.47
40:DE:78:LEU:HD12	40:DE:78:LEU:C	2.39	0.47
40:DE:108:SER:O	40:DE:162:ALA:N	2.48	0.47
41:DF:46:ARG:HG2	41:DF:48:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:60:LEU:HA	42:DG:63:ILE:CD1	2.45	0.47
43:DH:18:GLU:HB2	43:DH:25:LYS:HB2	1.96	0.47
43:DH:65:HIS:C	43:DH:67:LEU:N	2.66	0.47
46:DN:24:GLY:H	46:DN:27:ALA:N	2.02	0.47
49:DQ:18:LYS:HB3	49:DQ:98:LYS:HZ3	1.78	0.47
50:DR:3:HIS:O	50:DR:4:LEU:C	2.58	0.47
50:DR:76:VAL:O	50:DR:79:LEU:HB3	2.15	0.47
52:DT:28:VAL:O	52:DT:29:ARG:CB	2.62	0.47
52:DT:35:LYS:NZ	52:DT:41:ARG:HD2	2.30	0.47
52:DT:57:PHE:CD2	52:DT:57:PHE:C	2.90	0.47
53:DU:17:ILE:O	53:DU:18:LEU:C	2.58	0.47
54:DV:46:VAL:O	54:DV:46:VAL:HG13	2.13	0.47
55:DW:12:ILE:CG1	55:DW:42:ARG:NH1	2.77	0.47
55:DW:104:THR:C	55:DW:105:VAL:CG2	2.88	0.47
56:DX:68:ARG:HG3	56:DX:69:TYR:CE1	2.50	0.47
58:DZ:10:ARG:HB2	58:DZ:37:VAL:CA	2.45	0.47
58:DZ:45:ASP:O	58:DZ:46:LYS:C	2.57	0.47
1:AA:169:C:O2	1:AA:169:C:H2'	2.15	0.47
1:AA:294:U:H2'	1:AA:295:C:C6	2.50	0.47
1:AA:472:A:O2'	16:AP:81:ARG:HA	2.15	0.47
1:AA:548:G:O2'	1:AA:549:C:H5'	2.15	0.47
1:AA:563:A:N3	1:AA:563:A:C2'	2.77	0.47
1:AA:862:C:O2'	1:AA:863:U:H5'	2.15	0.47
1:AA:900:A:H2'	1:AA:901:A:C8	2.51	0.47
1:AA:963:G:H1	1:AA:972:C:N4	2.13	0.47
1:AA:973:G:H1'	10:AJ:55:LYS:HZ1	1.79	0.47
1:AA:1092:A:C6	1:AA:1093:A:C6	3.02	0.47
1:AA:1152:A:O2'	1:AA:1153:C:C5'	2.60	0.47
1:AA:1191:A:OP1	3:AC:4:LYS:HG2	2.15	0.47
1:AA:1204:A:H2'	1:AA:1205:U:O4'	2.13	0.47
1:AA:1226:C:H6	13:AM:103:THR:HG1	1.61	0.47
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.80	0.47
1:AA:1426:C:C2	1:AA:1427:U:C5	3.02	0.47
2:AB:14:GLY:O	2:AB:15:VAL:HG22	2.15	0.47
2:AB:21:ARG:CZ	2:AB:39:ILE:CG1	2.89	0.47
2:AB:24:TRP:CZ3	2:AB:26:PRO:CA	2.90	0.47
2:AB:92:TYR:OH	2:AB:150:SER:HB3	2.15	0.47
4:AD:103:ASN:O	4:AD:104:VAL:C	2.58	0.47
4:AD:105:VAL:HG21	4:AD:126:ILE:HG12	1.95	0.47
4:AD:138:TYR:CE2	4:AD:139:ARG:O	2.68	0.47
5:AE:98:THR:HG22	5:AE:99:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:62:TRP:NE1	18:AR:35:ARG:CZ	2.78	0.47
9:AI:56:LEU:O	9:AI:56:LEU:HD23	2.15	0.47
10:AJ:4:ILE:O	10:AJ:74:ILE:CG1	2.63	0.47
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.45	0.47
11:AK:66:LEU:O	11:AK:69:ALA:CB	2.60	0.47
12:AL:10:LEU:O	12:AL:14:GLY:N	2.43	0.47
12:AL:41:ARG:CD	12:AL:42:THR:H	2.28	0.47
12:AL:84:LEU:O	12:AL:101:VAL:HG23	2.15	0.47
13:AM:59:TYR:O	13:AM:63:THR:N	2.48	0.47
14:AN:47:LEU:C	14:AN:49:HIS:N	2.71	0.47
15:AO:76:GLU:C	15:AO:78:TYR:H	2.22	0.47
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.24	0.47
18:AR:37:VAL:CG2	18:AR:38:GLU:N	2.78	0.47
18:AR:64:ARG:O	18:AR:65:ILE:C	2.55	0.47
19:AS:16:LEU:C	19:AS:19:VAL:H	2.23	0.47
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.47
25:AZ:367:ASN:N	25:AZ:367:ASN:ND2	2.50	0.47
27:B1:45:ASN:HA	36:BA:2230:G:C1'	2.44	0.47
28:B2:20:GLU:O	28:B2:20:GLU:OE1	2.33	0.47
28:B2:59:ARG:HB2	36:BA:77:C:H5'	1.97	0.47
30:B4:22:ILE:H	30:B4:22:ILE:CD1	2.00	0.47
32:B6:35:GLU:CB	32:B6:51:GLU:HG3	2.45	0.47
35:B9:35:ARG:O	35:B9:36:GLN:O	2.33	0.47
36:BA:20:C:C2	36:BA:21:A:C8	3.03	0.47
36:BA:251:A:H5''	48:BP:51:PHE:HZ	1.79	0.47
36:BA:271(E):U:H2'	36:BA:271(F):C:C5	2.49	0.47
36:BA:406:G:C6	36:BA:407:G:C6	3.03	0.47
36:BA:733:G:C5	36:BA:761:A:C6	3.03	0.47
36:BA:942:G:H2'	36:BA:943:U:O4'	2.15	0.47
36:BA:1744:C:O2'	36:BA:1745:C:H5'	2.15	0.47
36:BA:2121:G:H2'	36:BA:2122:U:H6	1.78	0.47
37:BB:81:G:C2	37:BB:82:G:N7	2.83	0.47
37:BB:112:U:H2'	37:BB:113:G:H8	1.78	0.47
38:BC:106:GLY:O	38:BC:107:TRP:HB2	2.15	0.47
39:BD:24:ILE:CD1	39:BD:25:THR:N	2.77	0.47
39:BD:102:LYS:C	39:BD:103:ARG:HG2	2.39	0.47
40:BE:4:ILE:HD12	40:BE:92:THR:O	2.16	0.47
40:BE:65:GLY:O	40:BE:66:HIS:C	2.58	0.47
40:BE:144:ARG:O	40:BE:146:THR:N	2.47	0.47
42:BG:109:VAL:C	42:BG:111:LEU:H	2.22	0.47
42:BG:130:ASN:O	42:BG:131:TYR:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:125:GLY:HA3	46:BN:126:PRO:C	2.40	0.47
48:BP:31:ALA:C	48:BP:33:ARG:H	2.23	0.47
49:BQ:21:THR:HG23	49:BQ:101:ARG:HB2	1.95	0.47
49:BQ:77:LYS:HD3	49:BQ:81:VAL:CG1	2.45	0.47
50:BR:107:ASP:O	50:BR:109:ALA:N	2.48	0.47
51:BS:28:VAL:O	51:BS:29:PHE:HB2	2.15	0.47
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.45	0.47
52:BT:96:ARG:HB2	52:BT:96:ARG:NH1	2.29	0.47
52:BT:118:ARG:O	52:BT:122:ASP:N	2.38	0.47
54:BV:19:LYS:HZ3	54:BV:20:LEU:N	2.13	0.47
56:BX:46:ALA:O	56:BX:47:PHE:CD1	2.68	0.47
57:BY:63:LYS:HG2	57:BY:64:GLU:H	1.80	0.47
57:BY:67:LEU:HD23	57:BY:68:HIS:H	1.80	0.47
58:BZ:20:ARG:HG3	58:BZ:21:ALA:H	1.80	0.47
58:BZ:119:GLU:HG3	58:BZ:122:ARG:NH1	2.30	0.47
1:CA:47:C:O2'	1:CA:48:C:P	2.73	0.47
1:CA:580:U:H3	1:CA:761:G:H1	1.63	0.47
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.14	0.47
1:CA:1353:G:C4	1:CA:1354:C:C5	3.03	0.47
1:CA:1500:A:OP1	1:CA:1508:G:OP1	2.33	0.47
2:CB:8:LYS:HZ1	2:CB:217:ARG:HH12	1.62	0.47
2:CB:22:LYS:HE3	2:CB:40:HIS:CE1	2.50	0.47
2:CB:224:GLN:C	2:CB:226:ARG:N	2.73	0.47
3:CC:63:ASN:C	3:CC:64:VAL:HG23	2.39	0.47
5:CE:101:ILE:O	5:CE:120:THR:CG2	2.61	0.47
6:CF:79:LEU:HD12	6:CF:88:VAL:HG11	1.96	0.47
7:CG:118:VAL:O	7:CG:121:ALA:N	2.47	0.47
8:CH:19:VAL:O	8:CH:21:LYS:N	2.48	0.47
13:CM:15:VAL:C	13:CM:17:VAL:N	2.70	0.47
15:CO:35:ARG:NH2	15:CO:59:MET:CE	2.78	0.47
15:CO:64:ARG:O	15:CO:66:LEU:N	2.48	0.47
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.15	0.47
15:CO:82:ILE:O	15:CO:86:GLY:N	2.47	0.47
18:CR:63:GLN:HA	18:CR:63:GLN:OE1	2.15	0.47
19:CS:31:ILE:HG23	19:CS:31:ILE:O	2.15	0.47
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.14	0.47
25:CZ:126:VAL:O	25:CZ:126:VAL:HG12	2.15	0.47
25:CZ:223:MET:HE3	25:CZ:224:PRO:O	2.15	0.47
25:CZ:313:HIS:HB3	25:CZ:403:ILE:CG2	2.43	0.47
25:CZ:339:ARG:CZ	25:CZ:352:VAL:HG22	2.45	0.47
28:D2:32:LEU:HB2	28:D2:53:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:50:ILE:HG21	36:DA:61:G:H5'	1.96	0.47
31:D5:12:SER:C	31:D5:14:ALA:N	2.70	0.47
32:D6:20:ASN:C	32:D6:21:TYR:CG	2.92	0.47
36:DA:9:U:HO2'	36:DA:10:G:H8	1.61	0.47
36:DA:441:U:O2'	36:DA:442:G:H5'	2.15	0.47
36:DA:628:G:O2'	36:DA:629:G:H5''	2.15	0.47
36:DA:631:A:H5''	48:DP:65:ARG:HG2	1.97	0.47
36:DA:654(H):G:H2'	36:DA:654(I):C:H5'	1.96	0.47
36:DA:733:G:C5	36:DA:761:A:C6	3.02	0.47
36:DA:783:A:H2'	36:DA:784:A:H4'	1.97	0.47
36:DA:793:A:OP2	36:DA:2072:G:H5'	2.15	0.47
36:DA:960:A:N6	36:DA:962:G:C2	2.83	0.47
36:DA:979:G:C2	36:DA:982:C:C5	3.03	0.47
36:DA:1244:G:H8	36:DA:1244:G:H5'	1.80	0.47
36:DA:1432:C:H2'	36:DA:1433:U:C6	2.50	0.47
36:DA:1471:A:OP2	36:DA:1519:G:N1	2.48	0.47
36:DA:1538:G:H2'	36:DA:1539:G:H8	1.79	0.47
36:DA:1625:C:O2'	36:DA:1626:G:H5'	2.15	0.47
36:DA:1655:A:C2	36:DA:2049:G:H4'	2.50	0.47
36:DA:1892:C:H2'	36:DA:1893:C:H6	1.80	0.47
36:DA:2009:G:H4'	55:DW:40:ASN:HD21	1.76	0.47
36:DA:2026:C:N4	36:DA:2037:G:H1	2.11	0.47
36:DA:2259:G:O2'	36:DA:2260:C:H5'	2.15	0.47
36:DA:2475:C:N4	36:DA:2529:G:H22	2.10	0.47
36:DA:2533:A:H2'	36:DA:2534:A:C5'	2.45	0.47
36:DA:2580:U:C5	36:DA:2581:G:C5	3.03	0.47
36:DA:2654:A:N3	36:DA:2656:U:C4	2.83	0.47
39:DD:85:ASP:HB2	39:DD:92:ILE:HG23	1.97	0.47
39:DD:112:GLN:HB2	39:DD:115:GLN:NE2	2.29	0.47
39:DD:130:ALA:C	39:DD:131:LEU:HG	2.40	0.47
42:DG:26:GLN:OE1	42:DG:26:GLN:N	2.48	0.47
42:DG:58:GLN:O	42:DG:61:ALA:CB	2.63	0.47
42:DG:179:PRO:O	42:DG:180:PHE:CD2	2.68	0.47
46:DN:101:HIS:O	46:DN:102:ALA:C	2.57	0.47
49:DQ:52:VAL:C	49:DQ:54:MET:N	2.71	0.47
49:DQ:54:MET:O	49:DQ:55:VAL:C	2.58	0.47
49:DQ:133:ARG:HB3	49:DQ:134:ARG:H	1.44	0.47
50:DR:25:ALA:O	50:DR:29:LEU:HB2	2.15	0.47
50:DR:79:LEU:HD13	50:DR:79:LEU:C	2.40	0.47
51:DS:46:VAL:HG12	51:DS:47:THR:N	2.24	0.47
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:61:PHE:O	52:DT:75:ILE:HG23	2.15	0.47
57:DY:2:ARG:O	57:DY:4:LYS:N	2.48	0.47
57:DY:46:LYS:H	57:DY:62:GLU:CG	2.03	0.47
57:DY:49:VAL:O	57:DY:50:ARG:HB2	2.15	0.47
57:DY:67:LEU:HD23	57:DY:68:HIS:H	1.79	0.47
58:DZ:67:LEU:CD1	58:DZ:67:LEU:N	2.78	0.47
58:DZ:69:THR:CG2	58:DZ:90:VAL:HA	2.43	0.47
58:DZ:133:ILE:N	58:DZ:134:PRO:HD3	2.30	0.47
1:AA:69:G:O2'	1:AA:70:G:H5'	2.15	0.46
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.50	0.46
1:AA:585:G:H1	1:AA:756:C:N4	2.11	0.46
1:AA:1463:C:H5'	52:BT:115:ARG:NH2	2.29	0.46
1:AA:1520:G:O2'	1:AA:1521:G:O5'	2.32	0.46
2:AB:194:PRO:O	2:AB:195:ASP:C	2.57	0.46
4:AD:9:CYS:SG	4:AD:32:ALA:HB2	2.55	0.46
4:AD:12:CYS:O	4:AD:33:MET:HE2	2.15	0.46
4:AD:14:ARG:HG3	4:AD:15:GLU:OE1	2.15	0.46
5:AE:76:ILE:CG2	5:AE:93:PRO:HA	2.44	0.46
8:AH:2:LEU:CD2	8:AH:3:THR:N	2.77	0.46
11:AK:18:ARG:O	11:AK:32:ILE:HG23	2.16	0.46
13:AM:66:LEU:C	13:AM:70:LEU:HB3	2.40	0.46
25:AZ:67:HIS:CD2	25:AZ:80:VAL:HG13	2.50	0.46
25:AZ:189:ARG:CG	25:AZ:190:ARG:N	2.48	0.46
25:AZ:313:HIS:CB	25:AZ:403:ILE:HG21	2.44	0.46
26:B0:10:THR:HG23	26:B0:12:ASN:OD1	2.15	0.46
26:B0:58:THR:CG2	26:B0:59:LEU:N	2.78	0.46
27:B1:7:ILE:HB	27:B1:62:VAL:HG23	1.96	0.46
28:B2:5:GLU:CG	28:B2:9:GLN:HE22	2.28	0.46
30:B4:14:ILE:HD12	30:B4:14:ILE:H	1.80	0.46
36:BA:7:G:O2'	36:BA:8:A:H5'	2.16	0.46
36:BA:188:G:H2'	36:BA:189:G:O4'	2.15	0.46
36:BA:245:G:H2'	36:BA:246:C:C6	2.50	0.46
36:BA:267:C:H2'	36:BA:268:C:H6	1.80	0.46
36:BA:631:A:H5''	48:BP:65:ARG:HG2	1.97	0.46
36:BA:664:C:O4'	36:BA:940:G:H5''	2.14	0.46
36:BA:873:G:H2'	36:BA:874:G:H8	1.79	0.46
36:BA:1298:C:H1'	36:BA:1302:A:C2	2.50	0.46
36:BA:1386:C:H2'	36:BA:1387:C:C6	2.50	0.46
36:BA:1410:G:H2'	36:BA:1411:C:C6	2.49	0.46
36:BA:1469:A:H2'	36:BA:1470:G:O4'	2.15	0.46
36:BA:1502:C:H5'	36:BA:1503:U:OP2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1563:G:H2'	36:BA:1564:C:H6	1.80	0.46
36:BA:1764:G:H2'	36:BA:1765:C:H6	1.80	0.46
36:BA:1887:C:H2'	36:BA:1888:G:C5'	2.16	0.46
36:BA:2582:G:N2	36:BA:2583:G:C1'	2.78	0.46
36:BA:2618:G:H21	40:BE:150:VAL:HG21	1.79	0.46
36:BA:2681:C:C5	36:BA:2727:G:N2	2.84	0.46
36:BA:2708:G:C4	36:BA:2709:G:N7	2.83	0.46
36:BA:2792:G:O2'	36:BA:2793:G:H5'	2.15	0.46
39:BD:112:GLN:H	39:BD:115:GLN:HE22	1.56	0.46
39:BD:273:ARG:HH11	39:BD:273:ARG:CG	2.28	0.46
40:BE:24:THR:HG21	40:BE:188:VAL:CG1	2.33	0.46
40:BE:171:GLU:O	40:BE:173:VAL:N	2.48	0.46
42:BG:36:LYS:CG	42:BG:37:VAL:N	2.78	0.46
42:BG:102:PHE:C	42:BG:104:GLU:N	2.72	0.46
42:BG:139:LEU:HA	42:BG:144:ILE:HG23	1.97	0.46
42:BG:173:LEU:O	42:BG:176:LEU:HB2	2.15	0.46
43:BH:31:GLY:O	43:BH:79:VAL:HG12	2.15	0.46
43:BH:148:ILE:HG22	43:BH:162:ILE:CD1	2.45	0.46
45:BK:99:UNK:O	45:BK:135:UNK:O	2.33	0.46
46:BN:27:ALA:O	46:BN:28:THR:C	2.57	0.46
46:BN:39:ARG:O	46:BN:41:ASP:N	2.44	0.46
47:BO:104:ARG:HB2	47:BO:104:ARG:HH11	1.80	0.46
48:BP:101:VAL:C	48:BP:103:ALA:N	2.68	0.46
49:BQ:126:PRO:HG2	49:BQ:127:ILE:HG23	1.97	0.46
51:BS:56:LEU:O	51:BS:58:LEU:N	2.48	0.46
52:BT:8:LYS:C	52:BT:10:VAL:H	2.24	0.46
52:BT:50:ILE:HG22	52:BT:51:ARG:N	2.30	0.46
52:BT:121:ILE:C	52:BT:123:GLN:N	2.73	0.46
55:BW:6:ILE:HG12	55:BW:104:THR:HA	1.97	0.46
56:BX:35:THR:HG21	56:BX:37:THR:HB	1.97	0.46
1:CA:123:C:H6	1:CA:123:C:O5'	1.98	0.46
1:CA:136:C:H2'	1:CA:137:C:C6	2.50	0.46
1:CA:258:G:O2'	1:CA:259:G:H5'	2.15	0.46
1:CA:370:C:H2'	1:CA:371:G:C8	2.50	0.46
1:CA:507:C:P	1:CA:508:C:H3'	2.56	0.46
1:CA:837:G:C2'	1:CA:838:G:H5'	2.45	0.46
1:CA:858:G:C6	1:CA:869:G:C8	3.04	0.46
1:CA:940:C:O5'	1:CA:940:C:H6	1.98	0.46
1:CA:1307:U:O5'	1:CA:1307:U:H6	1.98	0.46
3:CC:18:TRP:N	3:CC:18:TRP:CE3	2.83	0.46
3:CC:113:ALA:C	3:CC:115:LEU:N	2.70	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:92:VAL:HG12	4:CD:96:LEU:HD13	1.96	0.46
9:CI:6:GLY:CA	9:CI:84:ALA:HB2	2.44	0.46
10:CJ:71:LEU:HD12	10:CJ:71:LEU:C	2.39	0.46
15:CO:74:ASP:OD1	15:CO:77:ARG:HG2	2.14	0.46
17:CQ:30:PRO:HG2	17:CQ:31:LEU:H	1.80	0.46
18:CR:45:SER:H	18:CR:51:LEU:HG	1.79	0.46
19:CS:51:VAL:CG1	19:CS:52:TYR:H	2.26	0.46
22:CV:20:U:C5'	22:CV:21:A:OP2	2.63	0.46
25:CZ:29:ALA:HB3	25:CZ:179:LEU:HD22	1.97	0.46
25:CZ:136:ASN:O	25:CZ:137:LYS:HB2	2.15	0.46
25:CZ:194:GLU:HB3	25:CZ:198:LYS:HZ3	1.81	0.46
25:CZ:331:HIS:CD2	25:CZ:332:THR:HG23	2.51	0.46
25:CZ:402:LYS:HG2	25:CZ:403:ILE:N	2.29	0.46
26:D0:7:LEU:HD21	49:DQ:81:VAL:CG2	2.45	0.46
27:D1:23:LYS:HD3	27:D1:28:GLY:HA3	1.96	0.46
27:D1:81:LYS:O	27:D1:82:LEU:HD12	2.14	0.46
29:D3:56:VAL:CG1	29:D3:57:GLU:H	2.23	0.46
32:D6:32:ASN:CG	32:D6:33:LYS:N	2.73	0.46
36:DA:153:C:H2'	36:DA:154:G:H8	1.80	0.46
36:DA:185:U:N3	36:DA:212:G:N2	2.63	0.46
36:DA:271(E):U:H2'	36:DA:271(F):C:C5	2.51	0.46
36:DA:635:C:O2'	36:DA:639:U:OP1	2.33	0.46
36:DA:723:G:H2'	36:DA:724:U:O4'	2.14	0.46
36:DA:806:C:H2'	36:DA:807:U:H6	1.79	0.46
36:DA:827:U:H4'	36:DA:828:U:O2	2.15	0.46
36:DA:917:A:C2	37:DB:79:C:O2	2.68	0.46
36:DA:980:A:C6	36:DA:981:A:C2	3.02	0.46
36:DA:1005:C:O5'	36:DA:1005:C:H6	1.98	0.46
36:DA:1637:A:H4'	36:DA:2711:A:O2'	2.15	0.46
36:DA:1654:A:OP1	50:DR:3:HIS:N	2.49	0.46
36:DA:1655:A:H1'	40:DE:113:PHE:HD2	1.80	0.46
36:DA:1668:A:N3	36:DA:1670:C:N3	2.63	0.46
36:DA:2001:A:H4'	36:DA:2689:U:C2'	2.44	0.46
36:DA:2020:A:O2'	36:DA:2021:C:C5'	2.57	0.46
36:DA:2414:G:C2	36:DA:2415:G:C8	3.03	0.46
36:DA:2507:C:H2'	36:DA:2508:G:O4'	2.15	0.46
36:DA:2563:U:N3	36:DA:2566:A:OP2	2.40	0.46
36:DA:2695:C:H2'	36:DA:2696:U:C6	2.50	0.46
36:DA:2811:G:H1	36:DA:2889:C:H42	1.63	0.46
36:DA:2864:G:H2'	36:DA:2865:U:O4'	2.15	0.46
37:DB:115:G:C4'	51:DS:47:THR:HB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:68:ALA:C	40:DE:70:ALA:H	2.22	0.46
40:DE:142:GLY:C	40:DE:143:ASN:ND2	2.72	0.46
41:DF:39:TRP:CZ3	41:DF:106:ARG:HD2	2.49	0.46
42:DG:67:LYS:HD3	42:DG:67:LYS:H	1.77	0.46
42:DG:73:ALA:H	42:DG:87:PRO:HD2	1.79	0.46
50:DR:97:VAL:O	50:DR:98:LEU:HD23	2.15	0.46
50:DR:110:PRO:C	50:DR:111:LEU:HD12	2.40	0.46
51:DS:24:LEU:N	51:DS:24:LEU:HD22	2.29	0.46
51:DS:36:TYR:CD1	51:DS:36:TYR:N	2.83	0.46
51:DS:99:LYS:O	51:DS:101:LEU:N	2.48	0.46
55:DW:52:GLU:C	55:DW:54:ALA:N	2.60	0.46
55:DW:70:TYR:HE1	55:DW:72:LYS:HA	1.79	0.46
55:DW:71:VAL:C	55:DW:73:ALA:N	2.73	0.46
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.97	0.46
58:DZ:29:TYR:O	58:DZ:89:PHE:HA	2.15	0.46
58:DZ:48:PHE:O	58:DZ:50:GLN:N	2.48	0.46
58:DZ:67:LEU:CD1	58:DZ:67:LEU:H	2.28	0.46
1:AA:51:A:H4'	1:AA:52:G:O5'	2.15	0.46
1:AA:80:G:C3'	1:AA:81:U:C5'	2.90	0.46
1:AA:254:G:H2'	1:AA:255:G:C8	2.51	0.46
1:AA:370:C:H2'	1:AA:371:G:C8	2.49	0.46
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.48	0.46
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.81	0.46
2:AB:8:LYS:O	2:AB:12:GLU:HG3	2.15	0.46
2:AB:238:LEU:HG	2:AB:238:LEU:O	2.14	0.46
4:AD:18:LYS:HE2	4:AD:20:TYR:CE2	2.51	0.46
4:AD:200:GLU:O	4:AD:202:LEU:N	2.49	0.46
5:AE:7:GLU:HB3	5:AE:112:LEU:HD21	1.97	0.46
5:AE:79:GLU:N	5:AE:93:PRO:HD3	2.30	0.46
8:AH:14:ARG:HG3	8:AH:83:ILE:HG21	1.97	0.46
8:AH:33:GLU:O	8:AH:36:LEU:N	2.48	0.46
10:AJ:35:SER:O	10:AJ:36:GLY:C	2.56	0.46
10:AJ:40:LEU:N	10:AJ:40:LEU:CD2	2.73	0.46
18:AR:37:VAL:O	18:AR:41:LYS:HB2	2.15	0.46
21:AU:5:ASP:C	21:AU:7:ARG:N	2.72	0.46
22:AV:33:U:O2	22:AV:35:A:H3'	2.15	0.46
26:B0:12:ASN:O	26:B0:14:ARG:N	2.44	0.46
28:B2:35:LEU:HD13	28:B2:35:LEU:C	2.40	0.46
36:BA:146:G:H2'	36:BA:147:U:H5'	1.97	0.46
36:BA:778:G:C5	36:BA:779:U:C4	3.04	0.46
36:BA:1798:U:C2	36:BA:1822:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1899:G:O2'	36:BA:1900:A:H5''	2.15	0.46
36:BA:1953:A:H2	36:BA:2549:G:N3	2.12	0.46
36:BA:2051:A:OP1	40:BE:137:HIS:ND1	2.48	0.46
36:BA:2120:G:N2	36:BA:2178:C:C2	2.83	0.46
36:BA:2134:A:H2'	36:BA:2134:A:N3	2.29	0.46
36:BA:2246:G:C8	36:BA:2426:A:C6	3.03	0.46
36:BA:2305:A:O2'	42:BG:136:ARG:HG3	2.15	0.46
36:BA:2864:G:H2'	36:BA:2865:U:O4'	2.15	0.46
39:BD:85:ASP:HB2	39:BD:92:ILE:HG23	1.97	0.46
39:BD:227:ASN:O	39:BD:228:PRO:C	2.58	0.46
40:BE:194:GLY:O	40:BE:196:VAL:HG13	2.14	0.46
41:BF:133:ASN:HB2	41:BF:138:GLU:OE2	2.14	0.46
42:BG:133:LEU:HD12	42:BG:133:LEU:O	2.14	0.46
46:BN:120:LEU:HD13	46:BN:120:LEU:C	2.40	0.46
48:BP:23:PRO:C	48:BP:33:ARG:CZ	2.88	0.46
48:BP:120:ALA:HB3	48:BP:137:LYS:O	2.15	0.46
49:BQ:42:ILE:HA	49:BQ:42:ILE:HD12	1.79	0.46
49:BQ:90:VAL:HG12	49:BQ:91:GLU:H	1.80	0.46
49:BQ:110:THR:HG23	49:BQ:113:GLN:HB2	1.98	0.46
51:BS:42:ASP:O	51:BS:44:LYS:N	2.40	0.46
52:BT:61:PHE:HD2	52:BT:61:PHE:H	1.63	0.46
55:BW:59:VAL:HG12	55:BW:60:ASN:N	2.30	0.46
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.30	0.46
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD13	2.50	0.46
58:BZ:109:ALA:C	58:BZ:145:GLU:OE1	2.58	0.46
1:CA:43:C:H2'	1:CA:44:G:O5'	2.14	0.46
1:CA:61:G:O2'	1:CA:386:C:H1'	2.15	0.46
1:CA:112:G:H4'	1:CA:389:A:H4'	1.96	0.46
1:CA:447:G:C2'	1:CA:485:G:H22	2.26	0.46
1:CA:782:A:H2'	1:CA:783:C:O4'	2.15	0.46
1:CA:798:G:C2'	1:CA:799:G:O5'	2.63	0.46
1:CA:1056:U:H5'	3:CC:163:ALA:HB2	1.97	0.46
1:CA:1150:U:O4	1:CA:1151:A:N6	2.48	0.46
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.31	0.46
1:CA:1244:C:O2'	1:CA:1245:A:H5'	2.15	0.46
1:CA:1249:C:H5'	1:CA:1249:C:C6	2.41	0.46
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.15	0.46
2:CB:104:ASN:OD1	2:CB:104:ASN:O	2.33	0.46
3:CC:7:PRO:HG2	3:CC:184:TYR:CG	2.50	0.46
4:CD:159:ARG:O	4:CD:160:GLN:C	2.58	0.46
5:CE:98:THR:HG22	5:CE:99:GLY:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:10:LEU:HD13	6:CF:59:TYR:CD2	2.49	0.46
6:CF:48:LEU:HD23	6:CF:48:LEU:HA	1.74	0.46
7:CG:69:VAL:O	7:CG:71:PRO:HD3	2.14	0.46
13:CM:115:LYS:O	13:CM:116:THR:C	2.58	0.46
15:CO:3:ILE:HD12	15:CO:34:LEU:HD21	1.97	0.46
15:CO:39:LEU:O	15:CO:42:HIS:N	2.48	0.46
24:CY:73:A:H2'	24:CY:74:C:O4'	2.15	0.46
25:CZ:281:ILE:O	25:CZ:284:ASP:OD2	2.34	0.46
27:D1:18:ILE:HD13	27:D1:20:ARG:NH2	2.30	0.46
27:D1:18:ILE:HG21	27:D1:20:ARG:CZ	2.46	0.46
28:D2:67:LYS:C	28:D2:69:ARG:N	2.73	0.46
28:D2:68:ARG:CZ	28:D2:72:ALA:CB	2.93	0.46
29:D3:18:ASP:HB2	36:DA:850:C:C4'	2.41	0.46
34:D8:57:ARG:C	34:D8:59:LYS:N	2.73	0.46
36:DA:271(B):C:O2'	36:DA:271(C):C:H5'	2.16	0.46
36:DA:275:G:C2	36:DA:276:A:H2	2.33	0.46
36:DA:299:A:N7	36:DA:322:A:C2	2.83	0.46
36:DA:325:G:H2'	36:DA:326:G:C8	2.50	0.46
36:DA:604:G:C6	36:DA:625:G:C2	3.02	0.46
36:DA:643:A:H2'	36:DA:644:A:O4'	2.16	0.46
36:DA:778:G:C6	36:DA:779:U:C4	3.03	0.46
36:DA:817:C:H4'	36:DA:932:G:N1	2.30	0.46
36:DA:1021:A:C8	36:DA:1022:G:H4'	2.43	0.46
36:DA:1141:U:H5''	36:DA:1142(A):A:O4'	2.15	0.46
36:DA:1657:C:HO2'	36:DA:1658:C:H5'	1.79	0.46
36:DA:1668:A:H61	36:DA:1676:A:H61	1.62	0.46
36:DA:1816:G:H5'	39:DD:62:TYR:CE2	2.50	0.46
36:DA:1930:G:H22	36:DA:1969:A:C5'	2.29	0.46
36:DA:2124:G:H4'	38:DC:174:PRO:HB3	1.97	0.46
36:DA:2435:A:C6	36:DA:2436:G:C5	3.02	0.46
36:DA:2442:C:O2	36:DA:2442:C:C2'	2.64	0.46
36:DA:2466:C:C2'	36:DA:2467:C:H5'	2.46	0.46
36:DA:2483:C:H2'	36:DA:2483:C:O2	2.15	0.46
36:DA:2577:A:H5''	36:DA:2578:G:H5'	1.97	0.46
36:DA:2626:C:H2'	36:DA:2627:G:H8	1.79	0.46
39:DD:73:VAL:HA	39:DD:119:ALA:O	2.15	0.46
39:DD:227:ASN:O	39:DD:228:PRO:C	2.58	0.46
39:DD:239:ARG:HG2	39:DD:239:ARG:NH2	2.29	0.46
40:DE:1:MET:HB3	40:DE:200:GLU:OE2	2.16	0.46
40:DE:109:LYS:O	40:DE:161:GLY:HA3	2.15	0.46
40:DE:123:ALA:O	40:DE:125:GLY:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:126:PRO:C	40:DE:128:SER:N	2.73	0.46
40:DE:154:LYS:O	40:DE:155:LYS:O	2.33	0.46
41:DF:63:LYS:HA	41:DF:76:GLY:O	2.14	0.46
41:DF:157:VAL:O	41:DF:158:THR:CB	2.63	0.46
42:DG:122:PRO:HG2	42:DG:123:ASN:HD21	1.76	0.46
43:DH:123:PHE:N	43:DH:123:PHE:CD1	2.82	0.46
47:DO:86:ILE:CG2	47:DO:94:ARG:HB2	2.43	0.46
48:DP:95:VAL:HA	48:DP:99:LEU:CD2	2.46	0.46
52:DT:64:ARG:CB	52:DT:73:GLU:HG2	2.42	0.46
53:DU:66:ASN:C	53:DU:66:ASN:HD22	2.23	0.46
1:AA:198:G:O2'	1:AA:199:G:H8	1.98	0.46
1:AA:377:G:P	16:AP:5:ARG:HD3	2.55	0.46
1:AA:670:G:N2	1:AA:671:G:C4	2.84	0.46
1:AA:785:G:C6	1:AA:786:G:N7	2.84	0.46
1:AA:904:C:H2'	1:AA:905:U:O4'	2.14	0.46
1:AA:1074:G:C1'	2:AB:104:ASN:HD22	2.29	0.46
1:AA:1150:U:O2'	10:AJ:41:PRO:HD3	2.15	0.46
1:AA:1206:G:H4'	3:AC:192:THR:O	2.15	0.46
1:AA:1470:G:C4	1:AA:1471:G:C8	3.04	0.46
1:AA:1497:G:H1'	1:AA:1518:A:H2	1.81	0.46
1:AA:1531:A:O5'	1:AA:1531:A:C8	2.61	0.46
3:AC:5:ILE:N	3:AC:5:ILE:CD1	2.78	0.46
4:AD:20:TYR:CA	4:AD:26:CYS:HB3	2.45	0.46
4:AD:67:ILE:O	4:AD:67:ILE:HG23	2.14	0.46
4:AD:163:GLU:C	4:AD:165:MET:H	2.23	0.46
5:AE:10:MET:SD	5:AE:10:MET:N	2.85	0.46
5:AE:102:ALA:HA	5:AE:120:THR:HG22	1.96	0.46
9:AI:5:TYR:CD1	9:AI:6:GLY:N	2.84	0.46
9:AI:37:PHE:CD2	9:AI:74:ILE:HD11	2.50	0.46
9:AI:80:GLY:C	9:AI:82:ALA:N	2.73	0.46
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.16	0.46
11:AK:54:ARG:O	11:AK:55:LYS:C	2.58	0.46
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.29	0.46
12:AL:62:SER:C	12:AL:64:TYR:H	2.23	0.46
16:AP:45:THR:C	16:AP:47:ASP:N	2.71	0.46
20:AT:59:ALA:O	20:AT:60:GLU:C	2.57	0.46
25:AZ:135:MET:HE2	25:AZ:150:VAL:CG1	2.46	0.46
25:AZ:263:ARG:HE	25:AZ:297:GLU:HB3	1.81	0.46
26:B0:10:THR:HG22	26:B0:11:ARG:N	2.29	0.46
26:B0:25:ARG:C	26:B0:26:TYR:CD1	2.93	0.46
27:B1:19:GLN:O	27:B1:35:THR:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B4:25:TYR:O	30:B4:26:SER:HB3	2.15	0.46
32:B6:35:GLU:HB3	32:B6:51:GLU:HG3	1.97	0.46
32:B6:41:PRO:HG3	32:B6:49:HIS:CE1	2.50	0.46
33:B7:24:THR:HG23	33:B7:27:GLY:HA3	1.96	0.46
34:B8:45:GLY:O	34:B8:46:ARG:C	2.59	0.46
34:B8:55:ALA:O	34:B8:56:GLU:C	2.58	0.46
36:BA:153:C:H2'	36:BA:154:G:C8	2.51	0.46
36:BA:299:A:N7	36:BA:322:A:C2	2.83	0.46
36:BA:455:C:N3	36:BA:472:A:H2'	2.30	0.46
36:BA:479:A:N3	36:BA:481:G:O4'	2.49	0.46
36:BA:598:G:C4'	48:BP:15:ARG:HB3	2.45	0.46
36:BA:937:U:H2'	36:BA:938:G:C8	2.50	0.46
36:BA:937:U:H2'	36:BA:938:G:H8	1.79	0.46
36:BA:1218:C:H2'	36:BA:1219:G:H5'	1.96	0.46
36:BA:1339:G:N2	36:BA:1603:A:N3	2.64	0.46
36:BA:1655:A:H1'	40:BE:113:PHE:CD2	2.49	0.46
36:BA:1676:A:H2'	36:BA:1677:A:O4'	2.15	0.46
36:BA:2124:G:H4'	38:BC:174:PRO:HB3	1.97	0.46
36:BA:2358:G:H2'	36:BA:2359:C:O4'	2.16	0.46
36:BA:2635:C:H2'	36:BA:2636:U:O5'	2.16	0.46
36:BA:2650:U:H2'	36:BA:2651:C:C6	2.50	0.46
36:BA:2651:C:O5'	36:BA:2651:C:H6	1.98	0.46
36:BA:2651:C:O2'	36:BA:2652:C:H5'	2.15	0.46
36:BA:2766:G:H2'	36:BA:2766:G:N3	2.30	0.46
36:BA:2811:G:H1	36:BA:2889:C:H42	1.63	0.46
37:BB:74:U:H2'	37:BB:75:G:O4'	2.15	0.46
39:BD:28:GLU:N	39:BD:29:PRO:HD2	2.23	0.46
39:BD:138:VAL:O	39:BD:138:VAL:HG13	2.14	0.46
39:BD:249:PRO:CG	39:BD:250:TRP:N	2.77	0.46
42:BG:5:VAL:N	42:BG:8:LYS:HB2	2.19	0.46
43:BH:56:SER:HB2	43:BH:58:GLU:HG3	1.98	0.46
43:BH:130:ARG:CZ	43:BH:130:ARG:CB	2.94	0.46
46:BN:108:PRO:HG2	46:BN:113:GLY:HA3	1.97	0.46
49:BQ:141:GLN:CD	58:BZ:72:ARG:CD	2.88	0.46
52:BT:32:TYR:CG	52:BT:33:LYS:N	2.83	0.46
52:BT:35:LYS:NZ	52:BT:41:ARG:HD2	2.31	0.46
52:BT:57:PHE:C	52:BT:57:PHE:CD2	2.92	0.46
53:BU:91:ASP:O	53:BU:92:ARG:HB3	2.16	0.46
54:BV:81:TYR:CD1	54:BV:81:TYR:O	2.69	0.46
58:BZ:10:ARG:NH2	58:BZ:36:LYS:HB3	2.30	0.46
1:CA:64:G:N2	1:CA:67:C:N4	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:409:G:OP2	1:CA:409:G:H8	1.98	0.46
1:CA:823:G:H21	8:CH:1:MET:HE3	1.80	0.46
1:CA:865:A:C2'	1:CA:866:C:H5'	2.45	0.46
1:CA:880:C:O5'	12:CL:12:ARG:NH1	2.48	0.46
1:CA:932:C:H2'	1:CA:933:G:H8	1.79	0.46
1:CA:1087:G:H8	1:CA:1087:G:O5'	1.99	0.46
1:CA:1483:A:C2	36:DA:1960:A:H1'	2.50	0.46
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.30	0.46
5:CE:7:GLU:OE1	5:CE:37:ARG:NE	2.41	0.46
5:CE:102:ALA:HA	5:CE:120:THR:HG22	1.96	0.46
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.15	0.46
10:CJ:32:ALA:CB	10:CJ:75:ILE:HG13	2.36	0.46
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.97	0.46
10:CJ:40:LEU:HB2	10:CJ:41:PRO:CD	2.42	0.46
11:CK:15:ALA:HA	11:CK:77:MET:HA	1.97	0.46
11:CK:102:GLY:O	11:CK:103:LEU:HD22	2.14	0.46
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.31	0.46
12:CL:84:LEU:CD2	12:CL:85:ILE:N	2.78	0.46
13:CM:57:ARG:C	13:CM:59:TYR:H	2.23	0.46
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.14	0.46
19:CS:41:VAL:O	19:CS:44:MET:HB2	2.15	0.46
25:CZ:143:ASP:OD2	25:CZ:144:PRO:HD2	2.15	0.46
25:CZ:313:HIS:CG	25:CZ:403:ILE:HG21	2.49	0.46
27:D1:88:LYS:HD3	27:D1:88:LYS:O	2.15	0.46
28:D2:55:ARG:O	28:D2:56:GLN:C	2.58	0.46
36:DA:202:U:H2'	36:DA:203:C:O4'	2.15	0.46
36:DA:326:G:H2'	36:DA:327:G:O4'	2.15	0.46
36:DA:444:C:O3'	53:DU:2:PRO:N	2.48	0.46
36:DA:455:C:N3	36:DA:473:G:H5'	2.30	0.46
36:DA:563:G:C4	36:DA:2018:G:C2	3.03	0.46
36:DA:631:A:H2	36:DA:2415:G:N3	2.13	0.46
36:DA:667:U:H3'	36:DA:668:G:H5''	1.96	0.46
36:DA:730:C:O2'	36:DA:731:C:H5'	2.16	0.46
36:DA:1054:A:H2'	36:DA:1054:A:N3	2.30	0.46
36:DA:1161:C:O2'	36:DA:1162:G:H5'	2.16	0.46
36:DA:1398:C:H2'	36:DA:1399:C:C6	2.51	0.46
36:DA:1747(A):G:H2'	36:DA:1748:G:C4'	2.45	0.46
36:DA:1776:G:C2	36:DA:1777:U:C6	3.04	0.46
36:DA:1802:A:C5	36:DA:1817:G:N2	2.83	0.46
36:DA:1802:A:N1	36:DA:1822:G:H1'	2.30	0.46
36:DA:1982:C:H2'	36:DA:1983:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2153:G:N2	36:DA:2154:G:H1'	2.30	0.46
36:DA:2206:G:H21	36:DA:2207:G:H4'	1.76	0.46
36:DA:2533:A:O2'	36:DA:2534:A:H5'	2.15	0.46
36:DA:2539:C:H2'	36:DA:2540:C:H6	1.80	0.46
36:DA:2752:C:O2	36:DA:2752:C:C2'	2.56	0.46
36:DA:2768:C:H5''	46:DN:83:LYS:HE3	1.97	0.46
38:DC:103:ILE:O	38:DC:103:ILE:CG2	2.62	0.46
38:DC:104:LEU:O	38:DC:105:ASP:HB2	2.15	0.46
40:DE:87:GLU:O	40:DE:87:GLU:HG3	2.14	0.46
40:DE:103:ASP:OD2	40:DE:202:LYS:HE3	2.15	0.46
40:DE:198:VAL:O	40:DE:199:ARG:HB2	2.15	0.46
41:DF:8:GLN:HB3	41:DF:126:VAL:HA	1.98	0.46
42:DG:161:THR:HG21	42:DG:172:LEU:HD13	1.98	0.46
46:DN:18:ALA:O	46:DN:20:GLY:N	2.48	0.46
46:DN:96:GLU:HG2	46:DN:100:GLU:OE2	2.15	0.46
48:DP:120:ALA:HB3	48:DP:137:LYS:O	2.16	0.46
50:DR:17:ARG:HB3	50:DR:17:ARG:HH11	1.81	0.46
51:DS:68:GLN:C	51:DS:70:GLY:H	2.23	0.46
55:DW:28:SER:HA	55:DW:70:TYR:HB2	1.98	0.46
56:DX:35:THR:CG2	56:DX:37:THR:HB	2.45	0.46
57:DY:9:LYS:HG2	57:DY:11:ASP:OD2	2.15	0.46
57:DY:19:LYS:HB2	57:DY:20:TYR:CD1	2.49	0.46
1:AA:43:C:H2'	1:AA:44:G:O5'	2.15	0.46
1:AA:62:U:O5'	1:AA:62:U:H6	1.98	0.46
1:AA:517:G:N2	1:AA:533:A:OP2	2.48	0.46
1:AA:580:U:H3	1:AA:761:G:H1	1.63	0.46
1:AA:828:A:N6	1:AA:858:G:O2'	2.49	0.46
1:AA:934:C:C5	1:AA:1344:C:C4	3.03	0.46
1:AA:967:C:H2'	1:AA:968:A:H8	1.78	0.46
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.15	0.46
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.15	0.46
1:AA:1439:C:H5'	20:AT:38:LYS:HZ1	1.80	0.46
2:AB:42:ILE:HD11	2:AB:202:PRO:CB	2.39	0.46
2:AB:75:LYS:C	2:AB:77:ALA:N	2.73	0.46
2:AB:114:ARG:HD2	2:AB:118:LEU:HD11	1.97	0.46
5:AE:145:LYS:HE2	5:AE:149:GLU:OE2	2.15	0.46
8:AH:4:ASP:CG	8:AH:7:ALA:HB3	2.40	0.46
8:AH:89:PRO:CA	8:AH:92:ARG:HH11	2.28	0.46
10:AJ:90:LEU:H	10:AJ:91:PRO:CD	2.27	0.46
12:AL:40:VAL:O	12:AL:40:VAL:HG12	2.15	0.46
12:AL:89:ARG:CD	12:AL:91:LYS:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:34:LEU:HD11	13:AM:41:PRO:HG3	1.97	0.46
13:AM:91:ARG:HD3	13:AM:96:LEU:HB2	1.96	0.46
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.97	0.46
19:AS:26:GLY:O	19:AS:27:GLU:O	2.34	0.46
19:AS:36:ARG:HH22	19:AS:75:ALA:HB3	1.80	0.46
19:AS:63:THR:HG23	19:AS:64:GLU:N	2.30	0.46
26:B0:37:LEU:HG	26:B0:59:LEU:C	2.41	0.46
27:B1:15:ALA:CB	27:B1:42:GLN:HG3	2.46	0.46
27:B1:24:ALA:O	27:B1:25:LYS:C	2.58	0.46
32:B6:41:PRO:HG2	32:B6:47:THR:OG1	2.16	0.46
36:BA:270:A:C2'	36:BA:271:A:H5'	2.45	0.46
36:BA:340:A:C2	36:BA:341:G:H1'	2.50	0.46
36:BA:584:C:O5'	36:BA:584:C:H6	1.97	0.46
36:BA:596:G:N1	36:BA:597:U:C2	2.84	0.46
36:BA:660:G:H5'	41:BF:99:TYR:CE2	2.49	0.46
36:BA:1243:G:C3'	36:BA:1244:G:H5''	2.45	0.46
36:BA:1386:C:H3'	36:BA:1386:C:C6	2.48	0.46
36:BA:1387:C:H42	36:BA:1400:G:H1	1.62	0.46
36:BA:1857:G:O2'	36:BA:1885:A:N6	2.48	0.46
36:BA:1921:G:O2'	36:BA:1922:G:H5'	2.14	0.46
36:BA:2298:A:H2'	36:BA:2299:G:O4'	2.15	0.46
36:BA:2691:C:H2'	36:BA:2692:C:C6	2.31	0.46
36:BA:2839:G:H2'	36:BA:2840:C:H6	1.80	0.46
36:BA:2839:G:C5'	50:BR:46:GLY:HA2	2.46	0.46
36:BA:2850:A:OP2	36:BA:2866:U:O4	2.34	0.46
41:BF:40:GLN:NE2	41:BF:184:TYR:HB3	2.30	0.46
41:BF:53:THR:HG22	41:BF:56:GLU:CG	2.40	0.46
42:BG:125:PHE:CD1	42:BG:125:PHE:N	2.83	0.46
43:BH:137:ASP:CG	43:BH:138:LYS:H	2.24	0.46
43:BH:152:ARG:O	43:BH:162:ILE:HG22	2.15	0.46
47:BO:99:PHE:N	47:BO:99:PHE:CD1	2.82	0.46
48:BP:114:ILE:CG2	48:BP:130:PHE:HA	2.46	0.46
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.16	0.46
49:BQ:21:THR:HG22	49:BQ:23:GLY:O	2.15	0.46
50:BR:100:LEU:HD22	50:BR:112:ALA:HA	1.96	0.46
51:BS:27:SER:O	51:BS:28:VAL:HG22	2.15	0.46
51:BS:90:GLY:C	51:BS:92:TYR:H	2.24	0.46
52:BT:32:TYR:O	52:BT:41:ARG:O	2.34	0.46
52:BT:51:ARG:HG2	52:BT:62:THR:HG23	1.98	0.46
52:BT:100:TYR:HD2	52:BT:103:ARG:NH2	2.13	0.46
56:BX:70:LEU:HD23	56:BX:70:LEU:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:96:ILE:CD1	57:BY:99:CYS:SG	3.04	0.46
58:BZ:153:SER:HB2	58:BZ:167:PRO:HB3	1.96	0.46
1:CA:10:A:N7	5:CE:126:ARG:NH1	2.63	0.46
1:CA:327:A:O2'	1:CA:328:C:O4'	2.33	0.46
1:CA:405:U:C3'	1:CA:406:G:H5'	2.38	0.46
1:CA:407:G:OP1	4:CD:115:ARG:CZ	2.63	0.46
1:CA:540:G:O2'	1:CA:541:G:H5'	2.15	0.46
1:CA:564:C:C4	17:CQ:31:LEU:HD11	2.50	0.46
1:CA:686:U:H1'	11:CK:42:TRP:HE1	1.81	0.46
1:CA:766:A:C8	1:CA:814:A:C6	3.03	0.46
1:CA:1014:A:H5''	19:CS:14:HIS:HB2	1.97	0.46
1:CA:1064:G:H21	1:CA:1190:G:C2'	2.28	0.46
4:CD:106:TYR:CD2	4:CD:106:TYR:C	2.94	0.46
4:CD:162:LEU:HD11	4:CD:178:VAL:O	2.16	0.46
5:CE:140:ARG:HE	5:CE:140:ARG:HB2	1.48	0.46
6:CF:10:LEU:N	6:CF:10:LEU:CD1	2.78	0.46
7:CG:107:ALA:O	7:CG:108:ALA:C	2.59	0.46
7:CG:121:ALA:O	7:CG:122:HIS:C	2.57	0.46
8:CH:14:ARG:HH11	8:CH:14:ARG:HB3	1.79	0.46
8:CH:50:ARG:HG3	8:CH:50:ARG:HH11	1.80	0.46
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.34	0.46
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.81	0.46
15:CO:81:LEU:CD1	15:CO:85:LEU:HD12	2.44	0.46
19:CS:63:THR:HG22	19:CS:66:MET:SD	2.56	0.46
22:CV:34:G:O2'	22:CV:35:A:H5'	2.15	0.46
25:CZ:242:ILE:HB	25:CZ:282:ALA:HA	1.96	0.46
25:CZ:364:PRO:C	25:CZ:366:ASP:N	2.70	0.46
28:D2:4:SER:O	28:D2:7:ARG:HD2	2.16	0.46
33:D7:30:VAL:HG13	36:DA:466:A:H4'	1.96	0.46
36:DA:28:A:N3	36:DA:28:A:H2'	2.29	0.46
36:DA:141:A:C8	36:DA:1408:C:O2'	2.68	0.46
36:DA:449:A:H1'	53:DU:3:ARG:HE	1.80	0.46
36:DA:571:A:H5'	36:DA:2030:A:N7	2.30	0.46
36:DA:606:U:H2'	36:DA:607:U:H4'	1.98	0.46
36:DA:940:G:H2'	36:DA:941:A:O4'	2.15	0.46
36:DA:1060:U:O2'	36:DA:1061:U:OP2	2.33	0.46
36:DA:1069:A:C1'	36:DA:1070:A:P	3.02	0.46
36:DA:1196:C:H2'	36:DA:1197:G:H8	1.80	0.46
36:DA:1221:C:H2'	36:DA:1221(A):C:H6	1.79	0.46
36:DA:1718:G:H5'	36:DA:1718:G:C8	2.46	0.46
36:DA:1825:A:O3'	39:DD:233:HIS:CE1	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2053:G:C2	36:DA:2054:A:C1'	2.98	0.46
36:DA:2056:G:C4	36:DA:2577:A:C2	3.03	0.46
36:DA:2064:C:H2'	36:DA:2065:C:H6	1.78	0.46
36:DA:2121:G:C2	36:DA:2122:U:C4	3.03	0.46
39:DD:68:LYS:HB2	39:DD:70:TRP:CZ2	2.49	0.46
39:DD:238:GLY:O	39:DD:239:ARG:HB3	2.14	0.46
40:DE:132:HIS:CD2	40:DE:135:HIS:CE1	3.03	0.46
42:DG:34:LEU:HA	42:DG:161:THR:CB	2.45	0.46
42:DG:171:ALA:O	42:DG:175:LEU:HG	2.15	0.46
43:DH:169:VAL:O	43:DH:169:VAL:HG13	2.15	0.46
46:DN:14:VAL:HG12	46:DN:15:LEU:N	2.30	0.46
46:DN:47:ALA:C	46:DN:49:GLY:N	2.73	0.46
48:DP:47:ASP:HB3	48:DP:48:PRO:C	2.40	0.46
48:DP:108:LYS:N	48:DP:108:LYS:HD2	2.29	0.46
53:DU:35:ALA:O	53:DU:36:ARG:C	2.59	0.46
54:DV:49:THR:CB	54:DV:50:PRO:CD	2.90	0.46
57:DY:81:LYS:HG3	57:DY:97:ARG:CG	2.45	0.46
1:AA:189(G):G:H8	1:AA:189(G):G:OP1	1.98	0.46
1:AA:521:G:OP1	12:AL:73:GLU:HA	2.14	0.46
1:AA:577:G:C1'	1:AA:816:A:C4	2.98	0.46
1:AA:697:U:C2'	1:AA:698:G:H5'	2.46	0.46
1:AA:756:C:O2'	1:AA:757:U:H5'	2.15	0.46
1:AA:1032:G:N2	1:AA:1033:G:O6	2.48	0.46
1:AA:1190:G:H5''	3:AC:3:ASN:HD22	1.81	0.46
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.15	0.46
1:AA:1305:G:C8	1:AA:1305:G:OP2	2.68	0.46
2:AB:180:LEU:HB2	2:AB:182:ILE:HG13	1.97	0.46
2:AB:237:ALA:O	2:AB:238:LEU:CB	2.62	0.46
3:AC:34:LEU:CD2	3:AC:38:ARG:HE	2.28	0.46
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.41	0.46
7:AG:68:ASN:C	7:AG:138:LYS:HZ2	2.24	0.46
8:AH:82:HIS:C	8:AH:83:ILE:HG22	2.40	0.46
9:AI:126:SER:C	9:AI:128:ARG:H	2.23	0.46
12:AL:17:LYS:NZ	12:AL:18:VAL:CG2	2.78	0.46
15:AO:23:GLY:O	15:AO:24:SER:CB	2.62	0.46
15:AO:69:TYR:CG	15:AO:69:TYR:O	2.68	0.46
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.77	0.46
18:AR:68:LYS:O	18:AR:72:ARG:HG3	2.16	0.46
22:AW:19:G:C5	36:BA:2169:A:C2	3.03	0.46
25:AZ:32:THR:OG1	25:AZ:33:TYR:N	2.48	0.46
25:AZ:94:THR:HG23	25:AZ:346:THR:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:140:MET:HA	25:AZ:140:MET:HE2	1.97	0.46
25:AZ:155:ARG:HA	25:AZ:158:LEU:HD12	1.96	0.46
25:AZ:318:ALA:HB2	25:AZ:400:VAL:HA	1.98	0.46
28:B2:38:GLN:O	28:B2:43:GLN:O	2.33	0.46
31:B5:15:ARG:NH2	36:BA:2022:U:OP2	2.49	0.46
34:B8:7:HIS:CD2	34:B8:59:LYS:HZ2	2.33	0.46
36:BA:28:A:H2'	36:BA:28:A:N3	2.29	0.46
36:BA:94:C:H3'	36:BA:94(A):G:H8	1.81	0.46
36:BA:271(K):U:H2'	36:BA:271(M):G:N2	2.30	0.46
36:BA:428:A:H5'	36:BA:429:A:OP2	2.15	0.46
36:BA:531:C:H5	36:BA:2035:G:C4	2.33	0.46
36:BA:643:A:H2'	36:BA:644:A:O4'	2.15	0.46
36:BA:729:G:H5'	36:BA:730:C:H5''	1.97	0.46
36:BA:775:G:C5	36:BA:794:G:C8	3.03	0.46
36:BA:1337:G:H2'	36:BA:1338:G:O4'	2.16	0.46
36:BA:1342:A:C2	36:BA:1345:C:C4	3.04	0.46
36:BA:1763:G:H2'	36:BA:1764:G:H5'	1.97	0.46
36:BA:1802:A:C5	36:BA:1817:G:N2	2.84	0.46
36:BA:1932:A:C2'	36:BA:1933:G:H5'	2.46	0.46
36:BA:2001:A:H4'	36:BA:2689:U:C2'	2.43	0.46
36:BA:2115:G:N3	36:BA:2117:A:N7	2.63	0.46
36:BA:2140:C:O2'	36:BA:2141:G:H5'	2.16	0.46
38:BC:53:ARG:HB3	38:BC:53:ARG:CZ	2.46	0.46
38:BC:79:LYS:HB3	38:BC:147:PHE:HE1	1.81	0.46
39:BD:126:GLN:HG3	39:BD:129:ASN:HD21	1.80	0.46
39:BD:186:HIS:CD2	39:BD:188:GLU:HB2	2.48	0.46
41:BF:31:HIS:HE1	41:BF:34:TRP:CZ3	2.34	0.46
45:BK:73:UNK:C	45:BK:75:UNK:N	2.77	0.46
46:BN:11:PRO:O	46:BN:13:TRP:HD1	1.99	0.46
49:BQ:67:ARG:O	49:BQ:101:ARG:NH2	2.49	0.46
53:BU:66:ASN:HD22	53:BU:66:ASN:C	2.22	0.46
53:BU:83:LEU:HD12	53:BU:83:LEU:N	2.30	0.46
55:BW:65:LEU:HD23	55:BW:68:ARG:CD	2.45	0.46
55:BW:70:TYR:O	55:BW:108:GLY:N	2.48	0.46
57:BY:54:LYS:O	57:BY:55:TYR:C	2.58	0.46
58:BZ:3:TYR:O	58:BZ:57:ILE:HA	2.15	0.46
1:CA:53:A:N6	1:CA:54:C:C4	2.83	0.46
1:CA:308:C:H2'	1:CA:309:G:C8	2.50	0.46
1:CA:484:G:H4'	1:CA:485:G:H4'	1.97	0.46
1:CA:542:G:H2'	1:CA:543:C:C6	2.50	0.46
1:CA:967:C:H2'	1:CA:968:A:N7	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:975:A:H61	10:CJ:48:THR:HB	1.80	0.46
1:CA:990:C:C6	1:CA:1216:G:N2	2.83	0.46
1:CA:1067:A:H4'	1:CA:1068:G:O5'	2.15	0.46
1:CA:1075:C:H4'	1:CA:1101:A:C6	2.51	0.46
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.16	0.46
1:CA:1191:A:OP1	3:CC:4:LYS:HG2	2.15	0.46
59:CA:1601:PAR:H322	59:CA:1601:PAR:H51	1.80	0.46
2:CB:17:PHE:O	2:CB:18:GLY:O	2.33	0.46
3:CC:39:ILE:HG22	3:CC:40:ARG:N	2.31	0.46
3:CC:122:GLU:C	3:CC:124:ILE:N	2.72	0.46
4:CD:127:THR:CG2	4:CD:130:GLY:O	2.63	0.46
5:CE:20:GLN:NE2	5:CE:25:ARG:NH2	2.63	0.46
5:CE:79:GLU:N	5:CE:93:PRO:HD3	2.30	0.46
7:CG:8:GLU:OE2	7:CG:9:VAL:C	2.59	0.46
8:CH:138:TRP:OXT	8:CH:138:TRP:HE3	1.98	0.46
10:CJ:65:LEU:HD13	14:CN:56:VAL:CA	2.44	0.46
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.15	0.46
15:CO:82:ILE:O	15:CO:83:GLU:C	2.57	0.46
16:CP:44:THR:O	16:CP:45:THR:HB	2.14	0.46
21:CU:5:ASP:C	21:CU:7:ARG:N	2.74	0.46
25:CZ:94:THR:HG23	25:CZ:346:THR:HG22	1.97	0.46
25:CZ:261:GLU:O	25:CZ:262:THR:C	2.58	0.46
25:CZ:358:GLY:O	25:CZ:360:GLU:HG3	2.15	0.46
27:D1:79:GLY:HA2	36:DA:271(H):G:N2	2.31	0.46
28:D2:29:LYS:O	28:D2:33:MET:CB	2.63	0.46
30:D4:25:TYR:O	30:D4:26:SER:HB3	2.15	0.46
30:D4:30:GLU:C	30:D4:31:ILE:HD12	2.40	0.46
35:D9:10:ILE:O	35:D9:11:CYS:CB	2.63	0.46
36:DA:7:G:O2'	36:DA:8:A:H5'	2.15	0.46
36:DA:88:G:N3	36:DA:88:G:H2'	2.30	0.46
36:DA:140:G:H1'	36:DA:141:A:C2	2.50	0.46
36:DA:519:U:H2'	36:DA:520:G:C8	2.51	0.46
36:DA:689:A:H2'	36:DA:690:G:H8	1.81	0.46
36:DA:695:G:C5	36:DA:768:G:C6	3.04	0.46
36:DA:779:U:H2'	36:DA:780:G:C8	2.50	0.46
36:DA:972:G:H2'	36:DA:973:A:H8	1.80	0.46
36:DA:1337:G:H2'	36:DA:1338:G:O4'	2.16	0.46
36:DA:1683:C:H2'	36:DA:1684:C:C6	2.50	0.46
36:DA:1759:A:C4'	36:DA:2714:G:H21	2.29	0.46
36:DA:1779:U:H2'	36:DA:1783:A:H62	1.79	0.46
36:DA:1823:G:C2	36:DA:1824:G:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1907:G:H2'	36:DA:1908:C:H6	1.81	0.46
36:DA:2305:A:C6	42:DG:43:LEU:HD13	2.50	0.46
36:DA:2307:G:H3'	36:DA:2307:G:N3	2.30	0.46
36:DA:2413:G:H2'	36:DA:2414:G:C8	2.47	0.46
36:DA:2880:C:C5	36:DA:2881:C:H5	2.33	0.46
37:DB:37:C:N4	37:DB:49:C:H1'	2.31	0.46
38:DC:107:TRP:O	38:DC:108:MET:HE3	2.16	0.46
38:DC:198:ALA:C	38:DC:200:LYS:H	2.23	0.46
39:DD:35:LYS:HG2	39:DD:63:ARG:CB	2.45	0.46
40:DE:197:ILE:HD11	40:DE:199:ARG:HH22	1.81	0.46
43:DH:65:HIS:O	43:DH:67:LEU:N	2.48	0.46
50:DR:99:LYS:H	50:DR:99:LYS:CD	2.05	0.46
52:DT:27:THR:HA	52:DT:88:ILE:H	1.81	0.46
52:DT:50:ILE:HD12	52:DT:50:ILE:N	2.30	0.46
52:DT:109:GLU:HA	52:DT:112:ARG:HD3	1.96	0.46
1:AA:371:G:H1'	1:AA:482:A:H1'	1.98	0.46
1:AA:517:G:C5'	1:AA:519:C:O2	2.63	0.46
1:AA:582:U:C2	1:AA:760:G:C6	3.04	0.46
1:AA:632:A:C8	1:AA:633:G:C8	3.03	0.46
1:AA:660:G:C4	1:AA:661:G:C8	3.04	0.46
1:AA:782:A:N6	1:AA:801:U:C6	2.84	0.46
1:AA:864:A:N7	1:AA:865:A:C6	2.84	0.46
1:AA:865:A:H2	1:AA:918:A:H4'	1.80	0.46
1:AA:920:U:O4'	1:AA:1080:A:N1	2.49	0.46
1:AA:994:A:N7	1:AA:1216:G:H4'	2.29	0.46
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.50	0.46
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.81	0.46
2:AB:92:TYR:HE1	2:AB:150:SER:HB2	1.79	0.46
2:AB:209:ARG:HH11	2:AB:239:VAL:HG21	1.81	0.46
3:AC:50:ALA:HB2	3:AC:75:VAL:HB	1.97	0.46
9:AI:55:ALA:C	9:AI:57:GLY:H	2.23	0.46
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB2	1.98	0.46
10:AJ:43:ARG:O	10:AJ:67:THR:HG22	2.15	0.46
11:AK:23:ALA:HB3	11:AK:91:ARG:HG2	1.98	0.46
15:AO:3:ILE:H	15:AO:3:ILE:HG12	1.49	0.46
15:AO:67:LEU:HB3	15:AO:78:TYR:HE1	1.80	0.46
25:AZ:104:LEU:CD1	25:AZ:120:ILE:HD11	2.46	0.46
25:AZ:246:LYS:HD3	25:AZ:281:ILE:HG22	1.98	0.46
25:AZ:271:GLU:C	25:AZ:286:VAL:HG23	2.41	0.46
25:AZ:360:GLU:O	25:AZ:362:VAL:N	2.48	0.46
25:AZ:361:MET:O	25:AZ:361:MET:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:402:LYS:HG2	25:AZ:403:ILE:N	2.30	0.46
26:B0:56:ASP:OD2	36:BA:2364:C:H4'	2.15	0.46
36:BA:275:G:C2	36:BA:276:A:H2	2.32	0.46
36:BA:426:C:H2'	36:BA:426:C:O2	2.15	0.46
36:BA:593:G:C2'	36:BA:594:U:H5'	2.46	0.46
36:BA:1141:U:H5''	36:BA:1142(A):A:O4'	2.15	0.46
36:BA:1448:G:N2	36:BA:1464:C:H1'	2.30	0.46
36:BA:1517:G:C5	36:BA:1518:U:C4	3.02	0.46
36:BA:1518:U:O5'	36:BA:1518:U:H6	1.99	0.46
36:BA:1538:G:H2'	36:BA:1539:G:H8	1.81	0.46
36:BA:1593:G:C2	36:BA:1594:G:C8	3.04	0.46
36:BA:1613:G:C3'	36:BA:1614:A:H5''	2.46	0.46
36:BA:1825:A:H4'	39:BD:233:HIS:HE1	1.81	0.46
36:BA:1902:C:H5''	39:BD:246:PRO:HD2	1.98	0.46
36:BA:2056:G:C4	36:BA:2577:A:C2	3.04	0.46
36:BA:2306:C:H41	36:BA:2311:A:H8	1.64	0.46
36:BA:2333:A:C1'	36:BA:2335:A:C5	2.99	0.46
36:BA:2512:C:H2'	36:BA:2513:G:O4'	2.15	0.46
36:BA:2579:C:O2'	40:BE:134:ILE:HD11	2.16	0.46
36:BA:2596:U:H2'	36:BA:2597:G:O4'	2.16	0.46
36:BA:2791:C:H4'	36:BA:2792:G:O5'	2.15	0.46
37:BB:37:C:O2	51:BS:95:HIS:CE1	2.69	0.46
38:BC:28:LEU:C	38:BC:28:LEU:CD2	2.89	0.46
38:BC:49:ILE:HD12	38:BC:50:ASP:N	2.29	0.46
39:BD:66:ASP:OD1	39:BD:66:ASP:C	2.58	0.46
39:BD:96:HIS:HE1	39:BD:102:LYS:NZ	2.14	0.46
41:BF:39:TRP:CZ3	41:BF:106:ARG:HD2	2.49	0.46
41:BF:122:LYS:CG	41:BF:191:ARG:HG3	2.45	0.46
41:BF:163:VAL:O	41:BF:164:ARG:C	2.59	0.46
41:BF:174:VAL:HG21	41:BF:189:THR:CG2	2.45	0.46
42:BG:47:LYS:HB3	42:BG:48:GLU:H	1.41	0.46
42:BG:125:PHE:O	42:BG:127:GLY:N	2.48	0.46
45:BK:95:UNK:C	45:BK:97:UNK:N	2.79	0.46
45:BK:125:UNK:O	45:BK:129:UNK:CB	2.64	0.46
47:BO:8:LEU:O	47:BO:9:GLU:O	2.34	0.46
48:BP:16:ARG:NH1	48:BP:16:ARG:CB	2.78	0.46
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.46	0.46
53:BU:86:ALA:O	53:BU:88:ILE:N	2.48	0.46
55:BW:51:LEU:O	55:BW:54:ALA:HB3	2.15	0.46
56:BX:29:TRP:HZ3	56:BX:78:LYS:HD2	1.80	0.46
57:BY:81:LYS:HG3	57:BY:97:ARG:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:235:C:H1'	17:CQ:61:GLU:OE1	2.15	0.46
1:CA:314:C:N4	1:CA:315:A:N6	2.64	0.46
1:CA:412:A:H5'	1:CA:413:G:OP1	2.15	0.46
1:CA:802:A:H2'	1:CA:803:G:O4'	2.15	0.46
1:CA:1527:C:C4	1:CA:1528:U:O4	2.69	0.46
2:CB:188:ALA:O	2:CB:202:PRO:HA	2.15	0.46
3:CC:178:LEU:C	3:CC:180:ALA:N	2.73	0.46
4:CD:70:ILE:HD12	4:CD:97:LEU:HD21	1.96	0.46
4:CD:94:LEU:O	4:CD:95:GLY:C	2.59	0.46
5:CE:78:HIS:O	5:CE:78:HIS:ND1	2.48	0.46
7:CG:44:TYR:O	7:CG:47:CYS:N	2.48	0.46
11:CK:123:LYS:O	11:CK:126:ARG:HB3	2.15	0.46
12:CL:41:ARG:HH12	12:CL:57:LYS:HZ3	1.61	0.46
17:CQ:46:ASP:CG	17:CQ:49:GLU:HA	2.41	0.46
19:CS:50:ALA:HA	19:CS:58:VAL:O	2.16	0.46
22:CW:59:U:H5'	22:CW:60:U:C5	2.51	0.46
25:CZ:114:PRO:HG2	36:DA:2660:A:H4'	1.98	0.46
25:CZ:171:ILE:HG23	25:CZ:201:GLU:OE1	2.15	0.46
25:CZ:255:ILE:HG12	25:CZ:304:LEU:CD2	2.43	0.46
28:D2:60:LEU:O	28:D2:63:VAL:HB	2.16	0.46
34:D8:54:GLU:O	34:D8:58:ILE:HG12	2.15	0.46
36:DA:316:C:H2'	36:DA:317:G:O5'	2.15	0.46
36:DA:343:C:H2'	36:DA:343:C:O2	2.14	0.46
36:DA:384:U:H2'	36:DA:385:C:C6	2.49	0.46
36:DA:605:C:OP1	41:DF:104:LYS:NZ	2.48	0.46
36:DA:654(L):G:H2'	36:DA:654(M):C:C4'	2.46	0.46
36:DA:660:G:H5'	41:DF:99:TYR:CE2	2.50	0.46
36:DA:704:G:N3	36:DA:726:G:C2	2.84	0.46
36:DA:783:A:H2'	36:DA:784:A:O5'	2.15	0.46
36:DA:978:G:N2	36:DA:979:G:H1'	2.30	0.46
36:DA:1264:G:O3'	36:DA:2615:U:H5'	2.15	0.46
36:DA:1362:C:H2'	36:DA:1363:C:H5'	1.96	0.46
36:DA:1525:G:O2'	36:DA:1526:G:H5'	2.15	0.46
36:DA:1982:C:H6	36:DA:1982:C:O5'	1.99	0.46
36:DA:2086:U:H2'	36:DA:2087:G:C8	2.51	0.46
36:DA:2527:C:N4	36:DA:2536:G:O6	2.48	0.46
38:DC:43:VAL:CG2	38:DC:175:VAL:HG21	2.43	0.46
38:DC:75:LEU:HD11	38:DC:113:VAL:HG13	1.98	0.46
38:DC:147:PHE:O	38:DC:149:ILE:N	2.48	0.46
39:DD:91:ARG:HH11	39:DD:91:ARG:CG	2.25	0.46
39:DD:173:VAL:HG12	39:DD:185:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:186:HIS:CD2	39:DD:188:GLU:HB2	2.48	0.46
41:DF:65:TRP:CZ3	41:DF:72:ARG:HB3	2.51	0.46
42:DG:42:GLY:HA2	42:DG:90:LEU:N	2.30	0.46
42:DG:91:ARG:HG2	42:DG:92:VAL:H	1.80	0.46
42:DG:104:GLU:O	42:DG:106:LEU:N	2.49	0.46
44:DJ:79:UNK:O	44:DJ:80:UNK:CB	2.64	0.46
46:DN:125:GLY:HA3	46:DN:126:PRO:C	2.41	0.46
47:DO:25:LEU:HD11	47:DO:40:VAL:HG22	1.97	0.46
47:DO:75:SER:OG	52:DT:74:ARG:NH1	2.46	0.46
48:DP:75:ILE:N	48:DP:75:ILE:CD1	2.75	0.46
48:DP:122:PRO:HB3	48:DP:141:ALA:CB	2.44	0.46
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.23	0.46
53:DU:22:LYS:HA	53:DU:22:LYS:HD3	1.74	0.46
54:DV:7:THR:O	54:DV:7:THR:HG23	2.15	0.46
55:DW:6:ILE:HG12	55:DW:104:THR:HA	1.96	0.46
57:DY:13:VAL:O	57:DY:24:VAL:HG13	2.15	0.46
1:AA:28:G:H1	1:AA:555:C:H42	1.64	0.46
1:AA:452:A:HO2'	1:AA:453:A:H5''	1.79	0.46
1:AA:670:G:N2	1:AA:671:G:N3	2.64	0.46
1:AA:691:G:H2'	1:AA:692:U:H6	1.81	0.46
1:AA:750:G:C2	15:AO:23:GLY:HA3	2.51	0.46
1:AA:756:C:H2'	1:AA:757:U:O4'	2.16	0.46
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.46	0.46
1:AA:1171:G:O2'	1:AA:1172:C:H5'	2.16	0.46
1:AA:1226:C:N4	13:AM:104:ARG:HB2	2.31	0.46
1:AA:1498:U:C5	23:AX:20:U:C5'	2.94	0.46
2:AB:48:MET:O	2:AB:51:LEU:N	2.48	0.46
2:AB:57:PHE:CZ	2:AB:199:TYR:HE1	2.33	0.46
2:AB:104:ASN:OD1	2:AB:104:ASN:O	2.34	0.46
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.40	0.46
2:AB:167:PRO:HG3	2:AB:188:ALA:HB2	1.97	0.46
3:AC:162:GLN:O	3:AC:163:ALA:C	2.59	0.46
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.58	0.46
5:AE:148:VAL:C	5:AE:150:ARG:N	2.74	0.46
6:AF:39:LYS:HB2	6:AF:64:GLN:HB3	1.98	0.46
10:AJ:12:ASP:OD1	10:AJ:15:THR:HG23	2.15	0.46
10:AJ:92:THR:CG2	10:AJ:93:GLY:N	2.76	0.46
13:AM:57:ARG:C	13:AM:59:TYR:H	2.24	0.46
16:AP:28:ARG:C	16:AP:30:GLY:H	2.22	0.46
17:AQ:46:ASP:CG	17:AQ:49:GLU:HA	2.40	0.46
18:AR:43:PHE:CD1	18:AR:66:LEU:HD11	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.44	0.46
20:AT:18:GLN:O	20:AT:22:ARG:HD2	2.15	0.46
22:AV:28:G:H2'	22:AV:29:G:H8	1.81	0.46
22:AV:56:C:C1'	42:BG:76:SER:CB	2.93	0.46
30:B4:8:LYS:HG2	30:B4:9:LEU:O	2.16	0.46
31:B5:19:ARG:O	31:B5:21:SER:N	2.49	0.46
33:B7:18:PHE:CG	36:BA:126:A:C8	3.03	0.46
34:B8:8:LYS:HA	34:B8:11:LYS:CD	2.45	0.46
35:B9:7:VAL:HG13	35:B9:34:GLN:CB	2.45	0.46
36:BA:440:G:H8	36:BA:440:G:O5'	1.99	0.46
36:BA:449:A:H1'	53:BU:3:ARG:HE	1.81	0.46
36:BA:510:C:OP1	36:BA:511:U:OP2	2.34	0.46
36:BA:603:A:C2	36:BA:655:A:N1	2.84	0.46
36:BA:610:G:H2'	36:BA:611:C:C6	2.51	0.46
36:BA:771:G:C5	36:BA:772:C:C5	3.03	0.46
36:BA:784:A:C5	39:BD:229:VAL:HG11	2.50	0.46
36:BA:884:C:N3	36:BA:893:C:N3	2.64	0.46
36:BA:896:A:C5'	58:BZ:146:ILE:HD12	2.46	0.46
36:BA:1203:G:C6	36:BA:1204:A:N6	2.84	0.46
36:BA:1290:C:H6	36:BA:1290:C:O5'	1.98	0.46
36:BA:1292:U:H2'	36:BA:1293:C:C5	2.51	0.46
36:BA:1345:C:H2'	36:BA:1346:G:C5'	2.44	0.46
36:BA:1403:C:H2'	36:BA:1404:C:O5'	2.15	0.46
36:BA:1509(B):A:C2'	36:BA:1510:G:H5'	2.45	0.46
36:BA:1817:G:OP1	39:BD:88:ARG:NH2	2.48	0.46
36:BA:1917:U:O2'	36:BA:1918:A:H5'	2.16	0.46
36:BA:2049:G:O2'	36:BA:2050:C:H5'	2.16	0.46
36:BA:2100:G:C4	36:BA:2190:G:C6	3.04	0.46
36:BA:2205:C:C2	36:BA:2220:G:N1	2.84	0.46
36:BA:2307:G:H3'	36:BA:2307:G:N3	2.31	0.46
36:BA:2350:C:O2'	36:BA:2351:G:H5'	2.16	0.46
37:BB:48:A:H4'	51:BS:95:HIS:HD2	1.80	0.46
38:BC:46:LYS:NZ	38:BC:168:THR:O	2.48	0.46
39:BD:70:TRP:HZ3	39:BD:146:GLU:OE2	1.99	0.46
39:BD:239:ARG:O	39:BD:240:ALA:HB2	2.16	0.46
40:BE:2:LYS:O	40:BE:199:ARG:HA	2.16	0.46
41:BF:130:ALA:H	41:BF:142:TRP:NE1	2.13	0.46
41:BF:132:VAL:HG13	41:BF:133:ASN:H	1.80	0.46
41:BF:198:ALA:HA	41:BF:201:VAL:HG12	1.98	0.46
42:BG:18:GLU:O	42:BG:21:ARG:N	2.49	0.46
42:BG:29:TRP:C	42:BG:31:VAL:N	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:96:ARG:HA	42:BG:100:TRP:HD1	1.79	0.46
42:BG:139:LEU:HA	42:BG:144:ILE:CG2	2.46	0.46
43:BH:144:VAL:HA	43:BH:147:ASN:HB2	1.97	0.46
46:BN:25:ARG:HH11	46:BN:25:ARG:CG	2.28	0.46
46:BN:38:HIS:O	53:BU:67:ALA:O	2.32	0.46
46:BN:62:VAL:HG21	46:BN:66:LYS:HB2	1.98	0.46
46:BN:133:GLN:CG	46:BN:135:PRO:HD3	2.29	0.46
48:BP:95:VAL:HA	48:BP:99:LEU:CD2	2.46	0.46
48:BP:126:VAL:CA	48:BP:145:PRO:HB2	2.39	0.46
50:BR:17:ARG:O	50:BR:20:LEU:HB3	2.16	0.46
51:BS:99:LYS:O	51:BS:101:LEU:N	2.48	0.46
53:BU:95:LEU:HD12	54:BV:11:GLN:NE2	2.28	0.46
55:BW:6:ILE:HA	55:BW:103:ILE:O	2.16	0.46
58:BZ:24:LEU:HB3	58:BZ:39:VAL:O	2.16	0.46
58:BZ:96:VAL:HG13	58:BZ:97:GLU:N	2.30	0.46
1:CA:255:G:O6	1:CA:266:G:O6	2.34	0.46
1:CA:312:C:H2'	1:CA:313:A:H8	1.80	0.46
1:CA:367:U:H4'	25:CZ:291:ARG:HH11	1.81	0.46
1:CA:409:G:H3'	1:CA:410:G:H8	1.80	0.46
1:CA:445:G:C6	1:CA:490:G:C6	3.04	0.46
1:CA:493:G:H8	1:CA:493:G:O5'	1.99	0.46
1:CA:522:C:C2'	1:CA:523:A:H8	2.28	0.46
1:CA:730:G:H2'	1:CA:731:G:O4'	2.16	0.46
1:CA:779:C:O2'	1:CA:780:A:H5'	2.16	0.46
1:CA:922:G:C6	1:CA:923:A:C6	3.04	0.46
1:CA:1089:G:H2'	1:CA:1090:U:H6	1.80	0.46
1:CA:1152:A:H5''	10:CJ:13:HIS:CB	2.45	0.46
2:CB:180:LEU:HB2	2:CB:182:ILE:HG13	1.97	0.46
3:CC:13:GLY:O	3:CC:14:ILE:HB	2.16	0.46
8:CH:17:THR:HB	8:CH:78:GLN:NE2	2.29	0.46
10:CJ:62:HIS:O	14:CN:59:ALA:HB3	2.15	0.46
12:CL:75:HIS:CD2	12:CL:77:LEU:HB2	2.51	0.46
15:CO:23:GLY:O	15:CO:24:SER:CB	2.62	0.46
15:CO:69:TYR:CG	15:CO:69:TYR:O	2.69	0.46
20:CT:36:LEU:CD1	20:CT:36:LEU:C	2.89	0.46
20:CT:42:GLN:HB2	20:CT:42:GLN:HE21	1.55	0.46
22:CV:46:G:H5'	22:CV:47:U:OP2	2.15	0.46
22:CW:10:G:C2'	22:CW:11:C:H5'	2.46	0.46
25:CZ:23:GLY:HA2	62:CZ:501:GDP:O2A	2.16	0.46
25:CZ:134:PHE:CD2	25:CZ:136:ASN:HB2	2.51	0.46
25:CZ:267:VAL:O	25:CZ:267:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:300:ARG:H	25:CZ:300:ARG:HG3	1.52	0.46
26:D0:23:VAL:HG13	26:D0:38:VAL:HG22	1.98	0.46
31:D5:4:HIS:O	36:DA:2056:G:N1	2.49	0.46
32:D6:30:THR:HG21	36:DA:2286:A:OP2	2.16	0.46
32:D6:32:ASN:ND2	32:D6:33:LYS:H	2.13	0.46
33:D7:20:ALA:C	33:D7:22:MET:N	2.70	0.46
33:D7:39:ARG:HA	36:DA:459:U:OP1	2.16	0.46
35:D9:29:ASN:ND2	35:D9:29:ASN:C	2.73	0.46
36:DA:158:U:H2'	36:DA:171:G:O4'	2.16	0.46
36:DA:309:G:O3'	57:DY:18:GLY:HA2	2.16	0.46
36:DA:813:U:H2'	36:DA:814:C:C5	2.50	0.46
36:DA:848:G:H5'	36:DA:848:G:H8	1.81	0.46
36:DA:850:C:C4	36:DA:851:U:C5	3.04	0.46
36:DA:1292:U:O2'	36:DA:1293:C:H5'	2.15	0.46
36:DA:1555:G:C2	36:DA:1556:C:C5	3.03	0.46
36:DA:1801:G:N3	36:DA:1801:G:O5'	2.49	0.46
36:DA:1932:A:C2'	36:DA:1933:G:H5'	2.46	0.46
36:DA:2110:G:N1	36:DA:2178:C:N4	2.59	0.46
36:DA:2133:G:N1	36:DA:2157:G:O6	2.49	0.46
36:DA:2138:C:H2'	36:DA:2139:C:H6	1.80	0.46
36:DA:2241:A:H2'	36:DA:2242:G:C8	2.51	0.46
36:DA:2307:G:H21	36:DA:2308:G:C5'	2.29	0.46
36:DA:2580:U:C6	36:DA:2581:G:C6	3.04	0.46
36:DA:2626:C:O5'	36:DA:2626:C:H6	1.98	0.46
36:DA:2661:G:H2'	36:DA:2662:A:O4'	2.15	0.46
36:DA:2682:U:C1'	40:DE:12:THR:HA	2.46	0.46
37:DB:64:C:H2'	37:DB:65:C:O4'	2.15	0.46
38:DC:115:ALA:O	38:DC:149:ILE:HD13	2.15	0.46
39:DD:52:ARG:HB2	39:DD:53:PHE:CD2	2.51	0.46
39:DD:74:GLY:O	39:DD:76:PRO:HD3	2.16	0.46
40:DE:31:CYS:HB3	40:DE:49:LEU:HD12	1.96	0.46
40:DE:144:ARG:HB3	40:DE:145:LYS:H	1.46	0.46
41:DF:127:GLU:OE1	41:DF:196:LEU:HD12	2.14	0.46
41:DF:167:ALA:HB1	41:DF:173:VAL:CG1	2.45	0.46
42:DG:97:ASP:O	42:DG:100:TRP:HB2	2.16	0.46
42:DG:128:ARG:O	42:DG:129:GLY:C	2.59	0.46
50:DR:75:LEU:HD22	50:DR:75:LEU:HA	1.79	0.46
52:DT:6:LEU:HA	52:DT:9:LEU:CD1	2.45	0.46
52:DT:92:GLY:HA3	52:DT:120:ARG:NH2	2.31	0.46
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.97	0.46
53:DU:113:ALA:C	53:DU:115:ALA:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:88:ARG:O	54:DV:90:PRO:CD	2.63	0.46
1:AA:59:A:C6	1:AA:331:G:H1'	2.50	0.46
1:AA:61:G:O2'	1:AA:386:C:H1'	2.16	0.46
1:AA:255:G:O6	1:AA:266:G:O6	2.34	0.46
1:AA:386:C:C2'	1:AA:387:U:C5'	2.82	0.46
1:AA:431:A:C2'	1:AA:432:A:H5'	2.45	0.46
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.15	0.46
1:AA:1165:C:H42	1:AA:1172:C:N4	2.14	0.46
1:AA:1249:C:H6	1:AA:1249:C:C5'	2.24	0.46
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.51	0.46
1:AA:1353:G:H2'	1:AA:1354:C:C5	2.50	0.46
1:AA:1463:C:C5'	52:BT:115:ARG:NH2	2.79	0.46
2:AB:48:MET:N	2:AB:51:LEU:HD12	2.31	0.46
2:AB:162:ILE:HG12	2:AB:163:PHE:N	2.31	0.46
3:AC:60:ALA:N	3:AC:63:ASN:HD21	2.14	0.46
3:AC:122:GLU:O	3:AC:124:ILE:N	2.48	0.46
4:AD:62:GLN:O	4:AD:63:LYS:C	2.59	0.46
7:AG:50:ILE:C	7:AG:52:GLU:H	2.24	0.46
8:AH:134:ILE:O	8:AH:135:CYS:HB3	2.16	0.46
25:AZ:35:ALA:HB3	25:AZ:70:TYR:HB2	1.98	0.46
25:AZ:92:MET:O	25:AZ:95:GLY:N	2.49	0.46
27:B1:45:ASN:HA	36:BA:2230:G:H1'	1.97	0.46
27:B1:46:LEU:HA	27:B1:46:LEU:HD13	1.78	0.46
29:B3:2:PRO:O	29:B3:3:ARG:O	2.34	0.46
30:B4:16:CYS:HA	30:B4:33:VAL:HG12	1.97	0.46
33:B7:15:THR:CG2	33:B7:15:THR:O	2.63	0.46
35:B9:1:MET:CE	36:BA:2477:C:H3'	2.45	0.46
36:BA:67:U:H2'	36:BA:68:G:H8	1.81	0.46
36:BA:178:G:O2'	36:BA:179:G:H5'	2.15	0.46
36:BA:225:A:C2	36:BA:231:C:C2	3.03	0.46
36:BA:398:G:H5''	36:BA:2090:G:C4'	2.46	0.46
36:BA:579:G:H4'	36:BA:2017:U:H2'	1.98	0.46
36:BA:666:G:H2'	36:BA:667:U:C5	2.51	0.46
36:BA:820:A:H1'	36:BA:943:U:O2'	2.14	0.46
36:BA:833:U:O2	48:BP:55:ARG:NH1	2.46	0.46
36:BA:942:G:H5''	48:BP:36:LYS:HA	1.98	0.46
36:BA:1022:G:H22	36:BA:1142(A):A:H2	1.64	0.46
36:BA:1298:C:C1'	36:BA:1302:A:C2	2.98	0.46
36:BA:1389:G:C5'	36:BA:1526:G:OP1	2.64	0.46
36:BA:1510:G:H2'	36:BA:1511:C:C6	2.50	0.46
36:BA:1672:C:C4	36:BA:1673:U:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2061:G:H5''	36:BA:2503:A:C6	2.51	0.46
36:BA:2140:C:H2'	36:BA:2141:G:C8	2.50	0.46
36:BA:2355:C:C5	36:BA:2356:C:C4	3.04	0.46
36:BA:2371:G:C2	36:BA:2372:G:C4	3.04	0.46
36:BA:2521:C:H5'	36:BA:2522:U:OP2	2.15	0.46
36:BA:2526:G:H8	36:BA:2526:G:O5'	1.98	0.46
36:BA:2661:G:H2'	36:BA:2662:A:O4'	2.15	0.46
39:BD:210:GLY:C	39:BD:212:SER:H	2.24	0.46
39:BD:213:ARG:HD2	39:BD:213:ARG:HA	1.67	0.46
40:BE:34:VAL:O	40:BE:35:GLN:CB	2.53	0.46
40:BE:143:ASN:ND2	40:BE:143:ASN:N	2.64	0.46
41:BF:162:LEU:H	41:BF:162:LEU:CD1	2.27	0.46
42:BG:4:ASP:OD1	42:BG:4:ASP:O	2.34	0.46
42:BG:43:LEU:HD11	42:BG:153:ARG:HB2	1.98	0.46
42:BG:87:PRO:CG	42:BG:88:ILE:H	2.24	0.46
42:BG:125:PHE:CZ	42:BG:131:TYR:CD1	3.02	0.46
43:BH:144:VAL:HG12	43:BH:144:VAL:O	2.16	0.46
44:BJ:79:UNK:O	44:BJ:80:UNK:CB	2.63	0.46
49:BQ:77:LYS:HD3	49:BQ:81:VAL:HG11	1.98	0.46
49:BQ:141:GLN:HE22	58:BZ:72:ARG:CA	2.28	0.46
51:BS:24:LEU:HD22	51:BS:24:LEU:N	2.31	0.46
52:BT:6:LEU:HA	52:BT:9:LEU:CD1	2.46	0.46
52:BT:33:LYS:HG3	52:BT:43:GLN:HB2	1.97	0.46
53:BU:34:LYS:O	53:BU:35:ALA:C	2.59	0.46
53:BU:62:ILE:HG23	53:BU:76:TYR:CZ	2.51	0.46
58:BZ:10:ARG:CG	58:BZ:11:GLU:N	2.79	0.46
58:BZ:150:LEU:HD23	58:BZ:150:LEU:C	2.41	0.46
1:CA:16:A:N1	1:CA:919:A:H2	2.14	0.46
1:CA:36:C:H5''	12:CL:123:LYS:HA	1.98	0.46
1:CA:59:A:C6	1:CA:331:G:H1'	2.50	0.46
1:CA:182:U:N3	1:CA:183:G:H1'	2.31	0.46
1:CA:578:C:H2'	1:CA:579:G:H8	1.80	0.46
1:CA:1171:G:O2'	1:CA:1172:C:H5'	2.15	0.46
2:CB:83:MET:O	2:CB:85:ALA:N	2.49	0.46
5:CE:24:ARG:HG2	5:CE:24:ARG:HH11	1.80	0.46
7:CG:105:VAL:O	7:CG:108:ALA:N	2.49	0.46
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.31	0.46
8:CH:137:VAL:HG12	8:CH:138:TRP:N	2.30	0.46
9:CI:96:LEU:O	9:CI:99:LEU:O	2.33	0.46
10:CJ:63:PHE:N	10:CJ:63:PHE:CD2	2.83	0.46
12:CL:60:LEU:N	12:CL:60:LEU:HD22	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:44:ARG:C	13:CM:46:LYS:N	2.73	0.46
13:CM:74:VAL:HA	13:CM:77:ASN:ND2	2.31	0.46
15:CO:11:VAL:O	15:CO:12:ILE:C	2.57	0.46
19:CS:51:VAL:HG21	19:CS:71:LEU:HB3	1.98	0.46
21:CU:18:TYR:HB3	21:CU:22:ARG:O	2.16	0.46
22:CV:53:G:H2'	22:CV:54:U:C6	2.51	0.46
24:CY:51:C:H2'	24:CY:52:A:C8	2.51	0.46
24:CY:77:THR:HG22	25:CZ:239:THR:CG2	2.46	0.46
25:CZ:364:PRO:C	25:CZ:366:ASP:H	2.24	0.46
26:D0:25:ARG:C	26:D0:26:TYR:CD1	2.94	0.46
27:D1:50:ARG:NH1	36:DA:2200:C:OP2	2.48	0.46
27:D1:81:LYS:O	27:D1:82:LEU:CD1	2.64	0.46
27:D1:90:ILE:O	27:D1:94:LEU:HD13	2.15	0.46
34:D8:52:LYS:O	34:D8:55:ALA:HB3	2.15	0.46
36:DA:178:G:C2	36:DA:179:G:C8	3.04	0.46
36:DA:280:C:H2'	36:DA:281:G:H5'	1.97	0.46
36:DA:472:A:H2'	36:DA:473:G:H5'	1.98	0.46
36:DA:568:U:H2'	36:DA:570:G:OP2	2.15	0.46
36:DA:856:C:H2'	36:DA:857:C:H6	1.79	0.46
36:DA:883:G:N2	36:DA:893:C:C2	2.84	0.46
36:DA:996:A:O2'	36:DA:997:G:C5'	2.54	0.46
36:DA:1510:G:H2'	36:DA:1511:C:C6	2.50	0.46
36:DA:1519:G:H5'	36:DA:1520:G:P	2.55	0.46
36:DA:1652:A:C6	36:DA:1653:G:C2	3.04	0.46
36:DA:1967:C:H2'	36:DA:1968:G:O4'	2.16	0.46
36:DA:2152:G:C2	36:DA:2153:G:C8	3.03	0.46
36:DA:2346:A:H5'	36:DA:2383:G:C1'	2.46	0.46
36:DA:2435:A:C6	36:DA:2436:G:N7	2.84	0.46
36:DA:2744:G:C2	36:DA:2761:G:C4	3.04	0.46
36:DA:2867:G:C5	52:DT:23:ARG:NH1	2.84	0.46
39:DD:244:ARG:HA	39:DD:245:PRO:HA	1.65	0.46
40:DE:24:THR:O	40:DE:183:LEU:HA	2.16	0.46
41:DF:59:TYR:N	41:DF:59:TYR:CD2	2.81	0.46
41:DF:169:ASN:O	41:DF:170:LEU:O	2.34	0.46
42:DG:137:GLU:OE1	42:DG:139:LEU:HD11	2.16	0.46
46:DN:11:PRO:O	46:DN:13:TRP:HD1	1.99	0.46
46:DN:22:THR:N	46:DN:61:ARG:HB2	2.31	0.46
47:DO:14:THR:O	47:DO:14:THR:HG22	2.15	0.46
48:DP:69:GLY:O	48:DP:70:GLN:C	2.58	0.46
48:DP:105:LEU:H	48:DP:105:LEU:CD1	2.28	0.46
50:DR:77:ARG:C	50:DR:79:LEU:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DS:15:ARG:NH1	51:DS:18:ILE:HD11	2.30	0.46
52:DT:8:LYS:C	52:DT:10:VAL:H	2.23	0.46
52:DT:100:TYR:HD2	52:DT:103:ARG:NH2	2.14	0.46
53:DU:57:PHE:O	53:DU:58:ARG:C	2.58	0.46
56:DX:35:THR:HG21	56:DX:37:THR:HB	1.98	0.46
57:DY:73:ARG:HE	57:DY:73:ARG:CA	2.27	0.46
1:AA:35:G:C6	1:AA:36:C:N4	2.84	0.46
1:AA:60:A:H8	1:AA:60:A:P	2.39	0.46
1:AA:190:U:H2'	1:AA:191:G:H8	1.81	0.46
1:AA:399:G:H2'	1:AA:400:C:C6	2.51	0.46
1:AA:484:G:H4'	1:AA:485:G:H4'	1.98	0.46
1:AA:507:C:C6	1:AA:508:C:C5	3.03	0.46
1:AA:522:C:N4	1:AA:528:C:H42	2.14	0.46
1:AA:542:G:O2'	1:AA:543:C:H5'	2.15	0.46
1:AA:581:G:C6	1:AA:758:G:C5	3.03	0.46
1:AA:966:G:O2'	1:AA:967:C:P	2.73	0.46
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.71	0.46
1:AA:1441:G:H1'	1:AA:1460:A:H61	1.81	0.46
3:AC:187:ALA:O	3:AC:188:LEU:CD2	2.63	0.46
8:AH:49:GLU:O	8:AH:50:ARG:C	2.59	0.46
10:AJ:38:ILE:O	10:AJ:40:LEU:HD22	2.16	0.46
12:AL:126:LYS:C	12:AL:128:ALA:N	2.73	0.46
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.77	0.46
16:AP:40:ASP:HA	16:AP:41:PRO:HD2	1.79	0.46
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.16	0.46
20:AT:19:SER:C	20:AT:21:LYS:H	2.23	0.46
22:AV:19:G:N1	42:BG:83:ARG:CZ	2.79	0.46
22:AW:65:G:O2'	22:AW:66:U:H5'	2.15	0.46
25:AZ:24:LYS:CE	25:AZ:84:GLY:HA3	2.46	0.46
26:B0:51:VAL:HG22	26:B0:81:VAL:HG23	1.98	0.46
28:B2:33:MET:HE2	56:BX:5:TYR:HD2	1.80	0.46
29:B3:7:LYS:HG3	29:B3:34:GLU:HB3	1.97	0.46
31:B5:41:PRO:HG2	31:B5:44:THR:HG1	1.76	0.46
32:B6:32:ASN:ND2	32:B6:33:LYS:H	2.13	0.46
36:BA:93:G:H2'	36:BA:94:C:C6	2.51	0.46
36:BA:247:G:H1'	36:BA:251:A:N6	2.29	0.46
36:BA:381:G:O2'	36:BA:382:G:H5'	2.16	0.46
36:BA:609:A:H2'	36:BA:610:G:O4'	2.16	0.46
36:BA:672:C:C2'	36:BA:673:C:C5'	2.89	0.46
36:BA:850:C:C4	36:BA:851:U:C5	3.03	0.46
36:BA:876:C:H2'	36:BA:877:U:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:909:A:O2'	36:BA:910:A:C5'	2.64	0.46
36:BA:1275:A:N3	36:BA:1276:A:H1'	2.31	0.46
36:BA:1525:G:H2'	36:BA:1526:G:C8	2.50	0.46
36:BA:2675:A:N3	36:BA:2675:A:H2'	2.29	0.46
37:BB:81:G:N3	37:BB:81:G:H5'	2.31	0.46
37:BB:98:G:C4	37:BB:99:G:C8	3.04	0.46
38:BC:43:VAL:CG2	38:BC:175:VAL:HG21	2.44	0.46
38:BC:207:THR:HB	38:BC:210:ARG:NH1	2.31	0.46
39:BD:110:GLY:O	39:BD:111:LEU:C	2.59	0.46
39:BD:131:LEU:HD13	39:BD:136:ILE:CD1	2.43	0.46
39:BD:173:VAL:HG12	39:BD:185:VAL:O	2.16	0.46
40:BE:34:VAL:O	40:BE:34:VAL:CG2	2.64	0.46
41:BF:168:ARG:CG	41:BF:169:ASN:N	2.79	0.46
42:BG:166:ASP:O	42:BG:167:GLU:C	2.58	0.46
43:BH:150:ALA:O	43:BH:151:ILE:C	2.58	0.46
46:BN:58:ASP:C	46:BN:60:ILE:N	2.61	0.46
47:BO:47:ILE:HG23	47:BO:48:PRO:CD	2.35	0.46
53:BU:65:ILE:HD11	53:BU:96:ALA:CB	2.45	0.46
57:BY:73:ARG:HA	57:BY:73:ARG:NE	2.28	0.46
1:CA:80:G:H3'	1:CA:81:U:C5'	2.45	0.46
1:CA:169:C:O2	1:CA:169:C:H2'	2.15	0.46
1:CA:266:G:H1'	1:CA:268:C:OP2	2.15	0.46
1:CA:443:C:H2'	1:CA:444:C:H6	1.81	0.46
1:CA:449:C:O2	16:CP:42:ARG:HG2	2.15	0.46
1:CA:505:G:C5	1:CA:506:G:N7	2.84	0.46
1:CA:811:C:C4'	1:CA:900:A:N6	2.74	0.46
1:CA:836:G:H2'	1:CA:837:G:H8	1.81	0.46
1:CA:977:A:H62	1:CA:1223:C:H2'	1.79	0.46
1:CA:1095:U:H2'	1:CA:1096:C:O4'	2.16	0.46
1:CA:1179:A:H5'	9:CI:102:LEU:HD22	1.98	0.46
1:CA:1206:G:C2'	1:CA:1207:G:H5'	2.46	0.46
1:CA:1406:U:H2'	1:CA:1407:C:C6	2.49	0.46
1:CA:1445:C:H2'	1:CA:1446:U:H6	1.81	0.46
2:CB:36:ARG:NE	2:CB:36:ARG:HA	2.31	0.46
4:CD:17:VAL:O	4:CD:18:LYS:C	2.59	0.46
5:CE:76:ILE:HG12	5:CE:78:HIS:N	2.23	0.46
6:CF:62:TRP:CZ2	18:CR:35:ARG:NH2	2.84	0.46
7:CG:145:ALA:HA	7:CG:148:ASN:HD22	1.81	0.46
10:CJ:5:ARG:O	10:CJ:99:LYS:HG2	2.15	0.46
16:CP:27:LYS:CG	16:CP:30:GLY:HA3	2.40	0.46
19:CS:40:ILE:HD13	19:CS:66:MET:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:50:GLU:C	20:CT:52:ALA:H	2.24	0.46
25:CZ:107:SER:HB3	25:CZ:110:ASP:HB2	1.98	0.46
25:CZ:135:MET:HE2	25:CZ:150:VAL:CG1	2.45	0.46
25:CZ:246:LYS:CB	25:CZ:281:ILE:HG22	2.33	0.46
28:D2:5:GLU:C	28:D2:9:GLN:OE1	2.59	0.46
31:D5:18:ALA:O	31:D5:21:SER:HB3	2.16	0.46
31:D5:34:PRO:HG3	36:DA:2885:C:O2'	2.16	0.46
31:D5:38:ALA:HB1	31:D5:48:GLU:HB3	1.95	0.46
32:D6:19:ARG:CZ	36:DA:2400:G:O3'	2.64	0.46
32:D6:22:ALA:HB2	32:D6:39:TYR:CZ	2.51	0.46
35:D9:7:VAL:HG13	35:D9:34:GLN:CB	2.46	0.46
36:DA:25:U:H5'	55:DW:78:GLU:O	2.16	0.46
36:DA:28:A:H1'	36:DA:513:A:C2	2.51	0.46
36:DA:29:U:OP1	36:DA:583:G:H4'	2.16	0.46
36:DA:55:G:H2'	36:DA:55:G:N3	2.31	0.46
36:DA:272(E):G:H22	36:DA:364:C:H1'	1.81	0.46
36:DA:478:A:N1	36:DA:500:G:H4'	2.30	0.46
36:DA:479:A:H4'	36:DA:480:A:H5'	1.98	0.46
36:DA:821:A:C5'	36:DA:822:U:C6	2.98	0.46
36:DA:1273:U:H5''	36:DA:1646:C:H41	1.81	0.46
36:DA:1814:G:C4'	39:DD:51:VAL:HG21	2.46	0.46
36:DA:2050:C:H1'	40:DE:156:MET:HE1	1.97	0.46
36:DA:2130:U:OP1	38:DC:5:LYS:HG2	2.15	0.46
36:DA:2222:G:C4	36:DA:2223:G:C8	3.04	0.46
36:DA:2257:U:H2'	36:DA:2258:C:C6	2.51	0.46
36:DA:2355:C:C5	36:DA:2356:C:C4	3.04	0.46
36:DA:2527:C:C5	36:DA:2528:U:C5	3.04	0.46
36:DA:2530:A:C2'	36:DA:2531:A:H5''	2.46	0.46
36:DA:2880:C:H1'	50:DR:92:GLY:O	2.16	0.46
37:DB:87:G:C3'	37:DB:88:C:H5''	2.45	0.46
38:DC:49:ILE:HD12	38:DC:50:ASP:N	2.31	0.46
41:DF:115:ALA:O	41:DF:118:ALA:N	2.48	0.46
42:DG:57:ALA:HA	42:DG:90:LEU:HD21	1.98	0.46
42:DG:125:PHE:CE2	42:DG:131:TYR:HD1	2.34	0.46
42:DG:129:GLY:O	42:DG:130:ASN:ND2	2.49	0.46
42:DG:137:GLU:HG2	42:DG:138:GLN:H	1.81	0.46
42:DG:180:PHE:HB2	42:DG:182:LYS:HZ2	1.81	0.46
47:DO:88:ASN:HD21	47:DO:92:GLU:CB	2.27	0.46
49:DQ:55:VAL:HA	49:DQ:58:PHE:HE1	1.80	0.46
50:DR:14:SER:O	50:DR:17:ARG:N	2.42	0.46
53:DU:78:THR:O	53:DU:81:HIS:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:91:TYR:HE1	54:DV:93:GLU:HG3	1.80	0.46
55:DW:36:LEU:HD23	55:DW:36:LEU:N	2.08	0.46
56:DX:10:ALA:O	56:DX:28:PHE:HB2	2.16	0.46
56:DX:26:TYR:CD1	56:DX:26:TYR:N	2.84	0.46
57:DY:12:THR:CG2	57:DY:13:VAL:N	2.79	0.46
58:DZ:86:VAL:C	58:DZ:87:ASP:OD1	2.59	0.46
58:DZ:105:VAL:CG1	58:DZ:139:VAL:O	2.63	0.46
1:AA:8:A:OP1	1:AA:8:A:H3'	2.15	0.46
1:AA:191:G:N3	20:AT:105:SER:HB3	2.31	0.46
1:AA:799:G:C6	1:AA:800:G:C4	3.04	0.46
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.28	0.46
1:AA:1192:C:H2'	1:AA:1193:G:O5'	2.16	0.46
1:AA:1205:U:H4'	3:AC:195:VAL:CG2	2.33	0.46
1:AA:1271:G:H5'	1:AA:1314:C:C5'	2.46	0.46
1:AA:1381:U:C5	1:AA:1382:C:C4	3.04	0.46
2:AB:74:LYS:O	2:AB:74:LYS:HG3	2.15	0.46
3:AC:25:GLY:O	3:AC:26:LYS:C	2.58	0.46
4:AD:28:SER:CB	4:AD:29:PRO:CD	2.84	0.46
4:AD:159:ARG:O	4:AD:162:LEU:N	2.48	0.46
7:AG:95:ARG:O	7:AG:97:GLN:N	2.48	0.46
10:AJ:7:LYS:H	10:AJ:97:GLU:HB2	1.81	0.46
12:AL:60:LEU:N	12:AL:60:LEU:CD2	2.78	0.46
13:AM:44:ARG:C	13:AM:46:LYS:N	2.72	0.46
16:AP:14:ASN:CA	16:AP:42:ARG:HH12	2.16	0.46
16:AP:50:LYS:C	16:AP:51:VAL:HG23	2.41	0.46
17:AQ:30:PRO:HG2	17:AQ:31:LEU:H	1.81	0.46
20:AT:13:LEU:O	20:AT:16:HIS:N	2.39	0.46
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.16	0.46
25:AZ:93:ILE:HG23	25:AZ:126:VAL:HG21	1.98	0.46
25:AZ:146:LEU:O	25:AZ:150:VAL:N	2.42	0.46
25:AZ:342:PHE:N	25:AZ:342:PHE:CD1	2.84	0.46
26:B0:25:ARG:HG3	26:B0:31:VAL:HG11	1.98	0.46
26:B0:47:PRO:O	26:B0:78:TYR:CD2	2.69	0.46
36:BA:47:C:C5	36:BA:48:G:N7	2.84	0.46
36:BA:83:G:N2	36:BA:102:G:C2'	2.79	0.46
36:BA:89:G:H8	36:BA:89:G:O5'	1.98	0.46
36:BA:587:C:N4	48:BP:33:ARG:HB2	2.30	0.46
36:BA:920:G:O2'	36:BA:921:G:H5'	2.15	0.46
36:BA:1227:G:C2'	36:BA:1228:G:H5'	2.46	0.46
36:BA:1301:A:HO2'	36:BA:1302:A:P	2.37	0.46
36:BA:1518:U:C2	36:BA:1519:G:H1'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1670:C:C2'	36:BA:1671:U:H5'	2.46	0.46
36:BA:1827:C:OP2	39:BD:222:ARG:NH1	2.49	0.46
36:BA:1967:C:H2'	36:BA:1968:G:O4'	2.15	0.46
36:BA:2061:G:H5''	36:BA:2503:A:C2	2.50	0.46
36:BA:2250:G:N7	49:BQ:83:MET:HG3	2.30	0.46
36:BA:2259:G:O2'	36:BA:2260:C:H5'	2.16	0.46
36:BA:2274:A:C5	36:BA:2276:G:C8	3.04	0.46
36:BA:2298:A:H62	36:BA:2318:G:H8	1.60	0.46
36:BA:2299:G:O2'	36:BA:2300:G:H5'	2.16	0.46
36:BA:2635:C:C2'	36:BA:2636:U:O5'	2.64	0.46
36:BA:2819:G:C6	36:BA:2821:A:N3	2.84	0.46
37:BB:33:G:H2'	37:BB:34:U:O4'	2.16	0.46
38:BC:68:LEU:HD11	38:BC:161:ILE:HG22	1.97	0.46
39:BD:106:ILE:HD11	39:BD:196:VAL:HG22	1.97	0.46
40:BE:87:GLU:O	40:BE:87:GLU:HG3	2.15	0.46
40:BE:131:ALA:HB3	40:BE:134:ILE:HD11	1.96	0.46
40:BE:198:VAL:CG1	40:BE:199:ARG:H	2.14	0.46
41:BF:42:ALA:C	41:BF:44:ARG:N	2.74	0.46
42:BG:16:ARG:O	42:BG:18:GLU:N	2.49	0.46
42:BG:120:LEU:HD22	42:BG:133:LEU:HD22	1.98	0.46
42:BG:162:THR:HG22	42:BG:164:GLU:OE2	2.16	0.46
46:BN:18:ALA:O	46:BN:20:GLY:N	2.49	0.46
48:BP:16:ARG:HH11	48:BP:16:ARG:CA	2.29	0.46
51:BS:73:LEU:O	51:BS:74:ALA:C	2.60	0.46
52:BT:92:GLY:C	52:BT:94:ALA:H	2.24	0.46
53:BU:78:THR:O	53:BU:81:HIS:HB3	2.16	0.46
58:BZ:11:GLU:HB2	58:BZ:13:GLU:HG3	1.98	0.46
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.16	0.46
1:CA:309:G:H1'	1:CA:608:A:C2	2.51	0.46
1:CA:371:G:H1'	1:CA:482:A:H1'	1.97	0.46
1:CA:695:A:H2'	1:CA:696:A:O4'	2.16	0.46
1:CA:1103:C:H2'	1:CA:1104:G:O4'	2.16	0.46
1:CA:1160:G:H1	1:CA:1177:G:H22	1.64	0.46
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.16	0.46
1:CA:1377:A:H2'	7:CG:7:ALA:CB	2.47	0.46
1:CA:1426:C:C4	1:CA:1475:G:O6	2.69	0.46
3:CC:34:LEU:HD21	3:CC:38:ARG:HE	1.81	0.46
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.46	0.46
9:CI:9:ARG:CB	9:CI:104:ARG:HH12	2.20	0.46
10:CJ:49:VAL:O	10:CJ:49:VAL:CG1	2.64	0.46
13:CM:7:VAL:HG22	42:DG:115:ARG:HA	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:66:PRO:HD2	16:CP:71:ARG:NH1	2.31	0.46
20:CT:38:LYS:C	20:CT:40:ALA:N	2.73	0.46
25:CZ:169:PRO:HG2	25:CZ:209:TYR:CD2	2.51	0.46
25:CZ:257:GLY:HA3	25:CZ:302:GLN:HA	1.98	0.46
25:CZ:360:GLU:O	25:CZ:362:VAL:N	2.48	0.46
26:D0:23:VAL:N	26:D0:38:VAL:HG13	2.31	0.46
27:D1:24:ALA:HB3	27:D1:27:GLU:HB2	1.98	0.46
32:D6:17:LYS:O	32:D6:18:ARG:CB	2.64	0.46
36:DA:363:G:C2	36:DA:363(A):A:N7	2.83	0.46
36:DA:497:A:C6	36:DA:498:G:C6	3.03	0.46
36:DA:942:G:H5''	48:DP:36:LYS:HA	1.98	0.46
36:DA:1028:A:H8	36:DA:1028:A:O5'	1.99	0.46
36:DA:1270:C:H5''	36:DA:1271:G:O5'	2.16	0.46
36:DA:1277:G:N1	36:DA:1294:U:C2	2.84	0.46
36:DA:1332:G:H5'	36:DA:1333:C:H5	1.81	0.46
36:DA:1450(A):C:O2	36:DA:1450(A):C:H2'	2.15	0.46
36:DA:1520:G:H2'	36:DA:1523:U:H5'	1.98	0.46
36:DA:1670:C:H2'	36:DA:1671:U:O4'	2.17	0.46
36:DA:1794:U:H2'	36:DA:1795:C:C6	2.51	0.46
36:DA:1862:G:N2	36:DA:1881:C:C2	2.84	0.46
36:DA:2083:G:C5	36:DA:2084:C:C4	3.03	0.46
36:DA:2134:A:N3	36:DA:2134:A:H2'	2.30	0.46
36:DA:2821:A:OP2	36:DA:2822:G:OP2	2.34	0.46
38:DC:124:GLY:CA	38:DC:128:GLY:HA3	2.44	0.46
39:DD:89:SER:HB2	39:DD:159:ALA:HB2	1.97	0.46
42:DG:35:GLU:OE2	42:DG:36:LYS:HE3	2.16	0.46
42:DG:56:ALA:CB	42:DG:153:ARG:NH2	2.79	0.46
42:DG:66:GLN:HB2	42:DG:94:LEU:HD21	1.97	0.46
42:DG:76:SER:OG	42:DG:83:ARG:HB3	2.16	0.46
45:DK:31:UNK:C	45:DK:63:UNK:HA	2.46	0.46
46:DN:6:PRO:HB3	46:DN:41:ASP:OD1	2.15	0.46
46:DN:25:ARG:HG2	46:DN:25:ARG:HH11	1.81	0.46
47:DO:71:ARG:HE	47:DO:105:GLU:CD	2.24	0.46
50:DR:34:ILE:HB	50:DR:114:VAL:CG2	2.45	0.46
50:DR:100:LEU:N	50:DR:100:LEU:CD2	2.77	0.46
51:DS:17:ARG:HH21	51:DS:90:GLY:H	1.64	0.46
51:DS:64:GLU:HA	51:DS:67:ARG:HG3	1.97	0.46
51:DS:79:ALA:O	51:DS:80:LEU:HD23	2.16	0.46
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.75	0.46
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.97	0.46
53:DU:86:ALA:HB2	53:DU:116:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DY:26:LYS:HG2	57:DY:27:VAL:H	1.82	0.46
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.15	0.46
58:DZ:40:ASP:HB3	58:DZ:43:GLU:HG2	1.98	0.46
1:AA:9:G:H1	1:AA:25:C:N4	2.14	0.45
1:AA:27:G:H2'	1:AA:28:G:C8	2.51	0.45
1:AA:152:A:N6	1:AA:170:U:C2	2.84	0.45
1:AA:175:C:H4'	20:AT:25:ARG:CZ	2.46	0.45
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.45
1:AA:359:U:H2'	1:AA:360:A:C8	2.50	0.45
1:AA:584:G:H2'	1:AA:585:G:H8	1.77	0.45
1:AA:922:G:C6	1:AA:923:A:C6	3.04	0.45
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.50	0.45
1:AA:1114:C:H2'	1:AA:1114:C:O2	2.16	0.45
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.16	0.45
1:AA:1240:U:H3'	1:AA:1241:G:C5'	2.46	0.45
1:AA:1370:G:C2	1:AA:1371:G:N7	2.84	0.45
3:AC:44:GLU:O	3:AC:45:LYS:C	2.59	0.45
3:AC:56:ASP:C	3:AC:57:ILE:HG13	2.40	0.45
4:AD:11:LEU:O	4:AD:13:ARG:O	2.34	0.45
7:AG:79:ARG:HG3	7:AG:84:ASN:N	2.31	0.45
10:AJ:18:ALA:O	10:AJ:22:LYS:N	2.49	0.45
11:AK:69:ALA:O	11:AK:70:LYS:C	2.57	0.45
16:AP:12:LYS:C	16:AP:14:ASN:N	2.69	0.45
19:AS:4:SER:O	19:AS:5:LEU:C	2.60	0.45
20:AT:63:ILE:O	20:AT:66:ALA:HB3	2.16	0.45
22:AW:59:U:H2'	22:AW:59:U:O2	2.16	0.45
25:AZ:27:LEU:HD11	25:AZ:31:LEU:HD21	1.98	0.45
25:AZ:257:GLY:HA3	25:AZ:302:GLN:HA	1.98	0.45
25:AZ:348:ASP:O	25:AZ:348:ASP:CG	2.58	0.45
26:B0:81:VAL:O	26:B0:81:VAL:HG12	2.14	0.45
27:B1:41:ARG:NH2	36:BA:1365:A:OP1	2.49	0.45
36:BA:268:C:N4	36:BA:425:G:C6	2.84	0.45
36:BA:325:G:H2'	36:BA:326:G:C8	2.50	0.45
36:BA:332:A:O2'	36:BA:333:G:O5'	2.34	0.45
36:BA:336:C:H4'	57:BY:7:VAL:HG21	1.97	0.45
36:BA:563:G:C4	36:BA:2018:G:C2	3.04	0.45
36:BA:573:G:C5'	36:BA:575:A:N7	2.79	0.45
36:BA:693:C:H2'	36:BA:694:U:C6	2.51	0.45
36:BA:848:G:H2'	36:BA:849:A:C8	2.51	0.45
36:BA:1007:C:O2'	46:BN:108:PRO:HA	2.16	0.45
36:BA:1196:C:O4'	36:BA:1226:A:C2	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1555:G:C2	36:BA:1556:C:C5	3.04	0.45
36:BA:1614:A:N6	55:BW:92:ARG:O	2.49	0.45
36:BA:1657:C:H2'	36:BA:1658:C:O4'	2.16	0.45
36:BA:1658:C:OP1	40:BE:132:HIS:CE1	2.69	0.45
36:BA:1787:A:H2'	36:BA:1788:C:C6	2.50	0.45
36:BA:1788:C:H2'	36:BA:1789:A:O4'	2.16	0.45
36:BA:2009:G:O2'	36:BA:2010:G:H5'	2.16	0.45
36:BA:2133:G:N1	36:BA:2157:G:O6	2.49	0.45
36:BA:2373:G:O2'	36:BA:2374:C:H5'	2.16	0.45
36:BA:2439:A:C8	36:BA:2586:C:H4'	2.50	0.45
36:BA:2720:U:H3'	36:BA:2721:A:H8	1.80	0.45
36:BA:2758:A:C2	36:BA:2759:G:N9	2.84	0.45
36:BA:2826:A:C2'	36:BA:2827:C:H5'	2.46	0.45
37:BB:105:A:H3'	37:BB:106:G:C8	2.50	0.45
38:BC:107:TRP:C	38:BC:108:MET:HE3	2.41	0.45
39:BD:147:LEU:HA	39:BD:147:LEU:HD12	1.66	0.45
39:BD:183:ARG:HG3	39:BD:269:PHE:O	2.15	0.45
39:BD:223:GLY:HA3	39:BD:231:HIS:CD2	2.51	0.45
40:BE:197:ILE:CD1	40:BE:199:ARG:HH22	2.29	0.45
41:BF:122:LYS:HB3	41:BF:191:ARG:HG3	1.98	0.45
41:BF:185:ASP:HA	41:BF:188:ARG:CD	2.46	0.45
42:BG:46:ALA:HB3	42:BG:88:ILE:CG1	2.46	0.45
48:BP:101:VAL:HG22	48:BP:102:ARG:N	2.31	0.45
49:BQ:55:VAL:HA	58:BZ:178:GLU:OE2	2.16	0.45
49:BQ:76:LYS:HB2	49:BQ:91:GLU:HG3	1.98	0.45
49:BQ:116:GLU:O	49:BQ:117:ALA:C	2.60	0.45
51:BS:17:ARG:HH21	51:BS:90:GLY:H	1.63	0.45
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.45	0.45
57:BY:50:ARG:O	57:BY:53:PRO:HD3	2.15	0.45
57:BY:51:VAL:C	57:BY:53:PRO:HD3	2.41	0.45
58:BZ:14:LYS:HB2	58:BZ:17:ALA:CB	2.47	0.45
58:BZ:17:ALA:CA	58:BZ:20:ARG:HG2	2.45	0.45
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	2.15	0.45
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.51	0.45
1:CA:458:C:H2'	1:CA:460:G:C8	2.50	0.45
1:CA:495:A:H1'	1:CA:496:A:C8	2.50	0.45
1:CA:719:C:C5	1:CA:720:C:C4	3.04	0.45
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.98	0.45
1:CA:1057:G:H2'	1:CA:1058:G:C8	2.51	0.45
1:CA:1095:U:C5'	1:CA:1109:C:O2	2.64	0.45
2:CB:11:LEU:C	2:CB:13:ALA:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:220:ASP:O	2:CB:221:LEU:C	2.59	0.45
3:CC:35:GLU:O	3:CC:37:GLN:N	2.50	0.45
3:CC:182:ILE:O	3:CC:183:ASP:C	2.58	0.45
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.97	0.45
6:CF:29:ALA:C	6:CF:31:GLU:N	2.73	0.45
6:CF:67:MET:HE2	6:CF:68:PRO:O	2.16	0.45
7:CG:23:VAL:CG1	7:CG:43:PHE:CE2	2.99	0.45
7:CG:93:PRO:O	7:CG:94:ARG:C	2.59	0.45
8:CH:28:ALA:HB2	8:CH:58:TYR:C	2.42	0.45
11:CK:102:GLY:C	11:CK:103:LEU:HD22	2.40	0.45
12:CL:93:LEU:O	12:CL:94:PRO:O	2.35	0.45
13:CM:35:GLU:CG	13:CM:36:LYS:N	2.79	0.45
13:CM:107:ALA:O	13:CM:109:THR:N	2.49	0.45
15:CO:50:HIS:O	15:CO:53:HIS:CB	2.64	0.45
16:CP:67:THR:H	16:CP:70:ALA:CB	2.16	0.45
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.97	0.45
22:CV:32:U:H5'	22:CV:33:U:OP2	2.16	0.45
25:CZ:177:LEU:HD12	25:CZ:177:LEU:N	2.31	0.45
25:CZ:363:MET:O	25:CZ:366:ASP:HB2	2.16	0.45
25:CZ:368:VAL:CG1	25:CZ:369:THR:H	2.12	0.45
27:D1:88:LYS:HD3	27:D1:88:LYS:C	2.41	0.45
28:D2:32:LEU:HD22	28:D2:36:ARG:NH1	2.30	0.45
28:D2:53:LEU:O	28:D2:54:LYS:C	2.59	0.45
28:D2:53:LEU:C	28:D2:56:GLN:HB2	2.41	0.45
30:D4:26:SER:HB2	42:DG:105:LYS:HE3	1.97	0.45
30:D4:33:VAL:CG1	30:D4:34:GLU:N	2.77	0.45
36:DA:247:G:H1'	36:DA:251:A:N6	2.31	0.45
36:DA:251:A:H5''	48:DP:51:PHE:HZ	1.81	0.45
36:DA:344:G:H3'	36:DA:344:G:P	2.56	0.45
36:DA:372:G:O2'	36:DA:373:U:P	2.74	0.45
36:DA:494:G:OP1	55:DW:8:ARG:NH1	2.50	0.45
36:DA:873:G:H2'	36:DA:874:G:H8	1.80	0.45
36:DA:876:C:H2'	36:DA:877:U:O4'	2.16	0.45
36:DA:978:G:C2	36:DA:979:G:H1'	2.51	0.45
36:DA:1313:U:H3'	36:DA:1314:C:H5'	1.99	0.45
36:DA:1365:A:C6	36:DA:1366:A:C5	3.04	0.45
36:DA:1680:U:O2	36:DA:1763:G:H3'	2.16	0.45
36:DA:1865:G:H5'	36:DA:1866:C:OP2	2.15	0.45
36:DA:2015:A:C2'	36:DA:2016:U:H5'	2.47	0.45
36:DA:2020:A:HO2'	36:DA:2021:C:H5'	1.80	0.45
36:DA:2026:C:H2'	36:DA:2026:C:O2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2071:A:C2	36:DA:2441:C:N3	2.83	0.45
36:DA:2243:U:H2'	36:DA:2244:U:H6	1.73	0.45
36:DA:2358:G:H2'	36:DA:2359:C:O4'	2.15	0.45
36:DA:2454:G:O2'	36:DA:2455:G:C5'	2.64	0.45
36:DA:2682:U:O2'	52:DT:58:ASN:OD1	2.34	0.45
36:DA:2720:U:C2	36:DA:2721:A:C8	3.05	0.45
36:DA:2776:A:H4'	36:DA:2778:A:C5'	2.46	0.45
38:DC:47:LEU:HD11	38:DC:171:ILE:CG2	2.46	0.45
38:DC:79:LYS:HB3	38:DC:147:PHE:HE1	1.80	0.45
38:DC:91:ALA:HB3	38:DC:94:VAL:CG2	2.46	0.45
39:DD:249:PRO:CD	39:DD:250:TRP:H	2.30	0.45
40:DE:98:PRO:HG3	40:DE:175:VAL:HG12	1.98	0.45
43:DH:152:ARG:HG3	43:DH:152:ARG:NH1	2.30	0.45
46:DN:87:LEU:HD13	46:DN:87:LEU:C	2.41	0.45
48:DP:114:ILE:CG2	48:DP:130:PHE:HA	2.47	0.45
49:DQ:48:GLU:O	49:DQ:50:ALA:N	2.49	0.45
50:DR:67:LEU:CD2	50:DR:76:VAL:HG21	2.46	0.45
51:DS:66:ALA:O	51:DS:67:ARG:C	2.59	0.45
53:DU:92:ARG:C	53:DU:94:ASN:N	2.71	0.45
54:DV:96:ILE:HD13	54:DV:96:ILE:N	2.30	0.45
56:DX:17:ALA:O	56:DX:18:TYR:C	2.59	0.45
57:DY:54:LYS:O	57:DY:55:TYR:C	2.59	0.45
58:DZ:54:HIS:O	58:DZ:98:MET:HE1	2.16	0.45
58:DZ:158:PRO:HD2	58:DZ:161:VAL:HB	1.97	0.45
1:AA:113:G:C2	1:AA:315:A:C2	3.03	0.45
1:AA:181:G:H4'	1:AA:182:U:O5'	2.16	0.45
1:AA:677:U:H2'	1:AA:678:U:C6	2.51	0.45
1:AA:695:A:H2'	1:AA:696:A:O4'	2.16	0.45
1:AA:734:G:O5'	1:AA:734:G:H8	1.99	0.45
1:AA:967:C:H4'	9:AI:125:TYR:CE2	2.51	0.45
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.34	0.45
1:AA:1287:A:H2'	1:AA:1288:A:H8	1.81	0.45
1:AA:1327:C:OP1	21:AU:20:LYS:N	2.39	0.45
1:AA:1398:A:H61	5:AE:21:ALA:HA	1.81	0.45
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.46	0.45
1:AA:1523:G:C6	1:AA:1524:C:N4	2.85	0.45
2:AB:36:ARG:N	2:AB:41:ILE:HD13	2.23	0.45
2:AB:111:ARG:O	2:AB:115:LEU:N	2.47	0.45
2:AB:201:ILE:O	2:AB:201:ILE:HG22	2.16	0.45
3:AC:120:VAL:O	3:AC:121:ALA:C	2.57	0.45
3:AC:131:ARG:NH2	3:AC:167:TRP:O	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:20:TYR:CD1	4:AD:20:TYR:N	2.84	0.45
4:AD:145:GLU:CG	4:AD:184:LYS:HG2	2.45	0.45
4:AD:158:ILE:O	4:AD:162:LEU:HB2	2.16	0.45
5:AE:98:THR:HG22	5:AE:99:GLY:N	2.31	0.45
8:AH:138:TRP:OXT	8:AH:138:TRP:HE3	1.99	0.45
13:AM:66:LEU:O	13:AM:70:LEU:CB	2.65	0.45
14:AN:5:ALA:O	14:AN:6:LEU:C	2.59	0.45
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.17	0.45
16:AP:6:LEU:HB3	16:AP:17:TYR:HB3	1.98	0.45
16:AP:49:LEU:HD12	16:AP:49:LEU:C	2.41	0.45
20:AT:23:ARG:HG2	20:AT:23:ARG:NH1	2.31	0.45
20:AT:50:GLU:C	20:AT:52:ALA:H	2.24	0.45
21:AU:5:ASP:HB3	21:AU:8:THR:HG23	1.97	0.45
25:AZ:26:THR:O	25:AZ:29:ALA:N	2.49	0.45
25:AZ:114:PRO:HG2	36:BA:2660:A:H4'	1.98	0.45
25:AZ:177:LEU:HD12	25:AZ:177:LEU:N	2.31	0.45
25:AZ:234:ARG:HE	25:AZ:289:LEU:HD22	1.79	0.45
26:B0:43:THR:HG21	36:BA:2332:U:H5'	1.99	0.45
28:B2:32:LEU:HA	28:B2:53:LEU:CD1	2.42	0.45
31:B5:4:HIS:O	36:BA:2056:G:N1	2.48	0.45
31:B5:16:ARG:NH1	31:B5:16:ARG:HG2	2.31	0.45
32:B6:10:LEU:H	32:B6:10:LEU:CD2	2.27	0.45
35:B9:26:ILE:CG2	35:B9:27:CYS:N	2.80	0.45
36:BA:319:C:H2'	36:BA:320:A:O4'	2.16	0.45
36:BA:372:G:H1'	36:BA:373:U:H5	1.81	0.45
36:BA:384:U:H2'	36:BA:385:C:C6	2.49	0.45
36:BA:497:A:C6	36:BA:498:G:C6	3.05	0.45
36:BA:539:G:H2'	36:BA:540:C:H6	1.81	0.45
36:BA:761:A:H8	36:BA:761:A:P	2.38	0.45
36:BA:940:G:H3'	36:BA:941:A:H5''	1.99	0.45
36:BA:1186:G:O2'	36:BA:1187:G:H5'	2.17	0.45
36:BA:1222:C:OP2	54:BV:88:ARG:NH2	2.50	0.45
36:BA:1344:G:N2	36:BA:1404:C:H1'	2.30	0.45
36:BA:1491:G:O2'	36:BA:1492:G:H5'	2.15	0.45
36:BA:1572:A:O2'	36:BA:1573:G:H5'	2.16	0.45
36:BA:1591:G:H2'	36:BA:1592:C:H5'	1.98	0.45
36:BA:1600:C:OP1	56:BX:58:HIS:NE2	2.49	0.45
36:BA:1652:A:O2'	36:BA:1653:G:H5'	2.16	0.45
36:BA:1705:G:C2'	36:BA:1706:U:H5'	2.46	0.45
36:BA:1713:U:O2'	36:BA:1714:G:H5'	2.16	0.45
36:BA:1961:C:H2'	36:BA:1962:C:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2307:G:H21	36:BA:2308:G:C5'	2.28	0.45
36:BA:2450:A:C2	36:BA:2451:A:C4	3.03	0.45
36:BA:2601:C:H2'	36:BA:2603:G:C8	2.50	0.45
36:BA:2688:U:O2	36:BA:2719:G:C2	2.69	0.45
37:BB:44:G:H1'	37:BB:47:C:N4	2.31	0.45
39:BD:232:PRO:CD	39:BD:249:PRO:HA	2.35	0.45
39:BD:249:PRO:CD	39:BD:250:TRP:H	2.29	0.45
40:BE:198:VAL:O	40:BE:199:ARG:HB2	2.15	0.45
41:BF:9:ILE:HA	41:BF:13:SER:O	2.16	0.45
41:BF:31:HIS:O	41:BF:34:TRP:N	2.49	0.45
41:BF:170:LEU:O	41:BF:171:PRO:C	2.59	0.45
41:BF:182:ASN:ND2	41:BF:185:ASP:OD2	2.49	0.45
42:BG:41:GLN:HB3	42:BG:43:LEU:CD2	2.46	0.45
46:BN:48:MET:HE3	46:BN:48:MET:H	1.82	0.45
46:BN:101:HIS:C	46:BN:103:VAL:H	2.25	0.45
46:BN:134:ARG:O	46:BN:136:GLU:N	2.48	0.45
46:BN:134:ARG:HH21	46:BN:136:GLU:HB2	1.80	0.45
49:BQ:27:VAL:N	49:BQ:137:TYR:HD1	2.14	0.45
50:BR:2:ARG:HG3	50:BR:2:ARG:NH1	2.30	0.45
50:BR:6:SER:OG	50:BR:8:ARG:NH2	2.50	0.45
1:CA:375:U:H4'	16:CP:17:TYR:HE2	1.81	0.45
1:CA:495:A:H61	4:CD:119:GLN:NE2	2.13	0.45
1:CA:688:G:H5'	11:CK:46:GLY:C	2.41	0.45
1:CA:864:A:N7	1:CA:865:A:C6	2.83	0.45
1:CA:994:A:C2	1:CA:995:C:C5	3.05	0.45
1:CA:1055:A:N3	1:CA:1055:A:H2'	2.30	0.45
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.51	0.45
1:CA:1269:A:H2'	1:CA:1270:C:C5'	2.47	0.45
1:CA:1463:C:H5'	52:DT:115:ARG:NH2	2.31	0.45
2:CB:165:VAL:O	2:CB:167:PRO:CD	2.65	0.45
6:CF:3:ARG:C	6:CF:93:SER:OG	2.59	0.45
7:CG:42:ILE:C	7:CG:44:TYR:N	2.73	0.45
8:CH:17:THR:HB	8:CH:78:GLN:HE22	1.81	0.45
9:CI:76:ALA:O	9:CI:77:ILE:C	2.59	0.45
10:CJ:8:LEU:C	10:CJ:9:ARG:HG3	2.41	0.45
10:CJ:65:LEU:CD1	14:CN:56:VAL:N	2.69	0.45
11:CK:93:GLN:O	11:CK:94:ALA:C	2.57	0.45
13:CM:49:THR:HG22	13:CM:51:ALA:N	2.22	0.45
14:CN:42:ILE:HG22	14:CN:43:CYS:H	1.80	0.45
16:CP:28:ARG:C	16:CP:30:GLY:H	2.24	0.45
17:CQ:99:SER:O	17:CQ:100:LYS:CG	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:35:ARG:O	18:CR:37:VAL:N	2.48	0.45
19:CS:51:VAL:CG2	19:CS:71:LEU:HB3	2.47	0.45
23:CX:22:A:C5	23:CX:23:C:C5	3.04	0.45
24:CY:69:C:H2'	24:CY:70:A:C8	2.50	0.45
25:CZ:361:MET:O	25:CZ:361:MET:HG3	2.17	0.45
25:CZ:362:VAL:HG11	25:CZ:368:VAL:HG21	1.98	0.45
25:CZ:390:GLU:HB3	25:CZ:395:VAL:HG11	1.98	0.45
28:D2:34:GLU:O	28:D2:37:PHE:HD1	1.99	0.45
29:D3:15:TYR:HD2	29:D3:19:GLN:NE2	2.01	0.45
30:D4:13:ARG:HG3	30:D4:13:ARG:O	2.16	0.45
34:D8:22:VAL:C	34:D8:23:VAL:HG23	2.41	0.45
34:D8:62:LEU:N	34:D8:63:PRO:HD2	2.31	0.45
36:DA:139:G:H3'	36:DA:139(A):G:H5''	1.98	0.45
36:DA:372:G:H1'	36:DA:373:U:H5	1.81	0.45
36:DA:466:A:C2'	36:DA:467:G:H5'	2.47	0.45
36:DA:654(L):G:H2'	36:DA:654(M):C:H4'	1.98	0.45
36:DA:1567:A:H2'	39:DD:84:TYR:HE2	1.81	0.45
36:DA:2028:U:O4	36:DA:2033:A:OP1	2.33	0.45
36:DA:2105:C:H2'	36:DA:2106:G:H8	1.81	0.45
36:DA:2592:G:N7	36:DA:2593:U:C5	2.84	0.45
36:DA:2842:G:H1	36:DA:2875:C:H42	1.64	0.45
38:DC:106:GLY:O	38:DC:107:TRP:HB2	2.15	0.45
39:DD:210:GLY:C	39:DD:212:SER:H	2.24	0.45
40:DE:4:ILE:HD12	40:DE:92:THR:O	2.15	0.45
41:DF:40:GLN:NE2	41:DF:184:TYR:HB3	2.30	0.45
41:DF:62:ARG:HG2	41:DF:62:ARG:NH1	2.31	0.45
42:DG:170:ARG:NH2	42:DG:180:PHE:CD1	2.85	0.45
48:DP:71:VAL:O	48:DP:72:PRO:C	2.58	0.45
48:DP:83:VAL:O	48:DP:115:LEU:HD23	2.16	0.45
49:DQ:27:VAL:N	49:DQ:137:TYR:HD1	2.14	0.45
49:DQ:44:ALA:N	49:DQ:45:GLN:HE21	2.14	0.45
54:DV:18:LEU:O	54:DV:19:LYS:HB3	2.17	0.45
54:DV:39:LEU:N	54:DV:39:LEU:CD2	2.75	0.45
58:DZ:52:SER:O	58:DZ:53:ILE:CG2	2.59	0.45
1:AA:262:A:N1	1:AA:263:A:C2	2.84	0.45
1:AA:319:G:C2'	1:AA:320:C:H5'	2.46	0.45
1:AA:352:C:H2'	1:AA:352:C:O2	2.17	0.45
1:AA:367:U:H4'	25:AZ:291:ARG:HH11	1.81	0.45
1:AA:429:U:H1'	1:AA:430:A:H5''	1.98	0.45
1:AA:622:A:C8	1:AA:623:C:C6	3.04	0.45
1:AA:662:G:H2'	1:AA:663:A:C8	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.98	0.45
1:AA:782:A:C2'	1:AA:783:C:H5'	2.46	0.45
1:AA:811:C:H4'	1:AA:900:A:H61	1.75	0.45
1:AA:865:A:C2	1:AA:918:A:H4'	2.51	0.45
1:AA:963:G:N2	10:AJ:55:LYS:HD3	2.27	0.45
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.35	0.45
1:AA:1175:G:C6	1:AA:1176:A:C6	3.04	0.45
1:AA:1313:U:P	19:AS:6:LYS:HB2	2.56	0.45
1:AA:1419:G:H2'	1:AA:1419:G:N3	2.31	0.45
3:AC:125:GLU:OE2	3:AC:190:ARG:N	2.49	0.45
7:AG:25:ALA:HA	7:AG:28:ASN:ND2	2.31	0.45
7:AG:31:MET:SD	7:AG:36:LYS:N	2.89	0.45
7:AG:106:GLN:O	7:AG:109:ASN:N	2.49	0.45
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.35	0.45
13:AM:14:ARG:H	13:AM:44:ARG:NH1	2.14	0.45
15:AO:82:ILE:O	15:AO:86:GLY:N	2.46	0.45
16:AP:45:THR:O	16:AP:47:ASP:N	2.48	0.45
16:AP:58:TYR:O	16:AP:62:VAL:HG22	2.15	0.45
17:AQ:24:GLU:HA	17:AQ:39:SER:HA	1.98	0.45
19:AS:45:VAL:C	19:AS:47:HIS:H	2.23	0.45
19:AS:51:VAL:CG2	19:AS:71:LEU:HB3	2.47	0.45
24:AY:5:A:H2'	24:AY:6:U:C6	2.50	0.45
24:AY:50:G:N2	24:AY:65:C:H1'	2.31	0.45
25:AZ:163:PHE:CD1	25:AZ:164:PRO:HD2	2.51	0.45
25:AZ:195:TRP:HA	25:AZ:198:LYS:HB2	1.98	0.45
26:B0:41:ARG:HD2	26:B0:41:ARG:HA	1.77	0.45
28:B2:33:MET:HG3	28:B2:37:PHE:CE1	2.51	0.45
28:B2:38:GLN:OE1	28:B2:44:LEU:HD21	2.17	0.45
34:B8:8:LYS:HA	34:B8:11:LYS:CB	2.45	0.45
36:BA:70:G:H2'	36:BA:113:G:O2'	2.16	0.45
36:BA:297:C:H2'	36:BA:298:G:O4'	2.15	0.45
36:BA:377:C:O2	36:BA:398:G:C2	2.69	0.45
36:BA:722:A:N3	36:BA:722:A:H2'	2.32	0.45
36:BA:732:C:H2'	36:BA:733:G:C8	2.52	0.45
36:BA:978:G:N2	36:BA:979:G:H1'	2.30	0.45
36:BA:1154:G:H5''	53:BU:59:ARG:HH22	1.81	0.45
36:BA:1264:G:O3'	36:BA:2615:U:H5'	2.16	0.45
36:BA:1392:A:N7	36:BA:1393:A:C5	2.84	0.45
36:BA:1450(A):C:O2	36:BA:1450(A):C:H2'	2.17	0.45
36:BA:1567:A:H2'	39:BD:84:TYR:HE2	1.82	0.45
36:BA:1569:A:H4'	39:BD:61:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1579:A:H2'	36:BA:1580:A:C8	2.51	0.45
36:BA:1591:G:C2'	36:BA:1592:C:H5'	2.46	0.45
36:BA:1798:U:C5'	39:BD:259:THR:HB	2.46	0.45
36:BA:2275:C:OP1	36:BA:2275:C:H2'	2.15	0.45
36:BA:2672:G:C3'	36:BA:2673:G:H5''	2.47	0.45
36:BA:2761:G:C3'	36:BA:2762:G:H5''	2.44	0.45
36:BA:2851:A:H2'	36:BA:2852:G:H5'	1.99	0.45
39:BD:131:LEU:CB	39:BD:132:PRO:CD	2.94	0.45
39:BD:266:SER:O	39:BD:267:SER:O	2.34	0.45
41:BF:150:GLY:HA2	41:BF:172:TRP:CE2	2.51	0.45
41:BF:155:LEU:O	41:BF:155:LEU:HG	2.16	0.45
42:BG:54:GLU:O	42:BG:57:ALA:N	2.48	0.45
42:BG:63:ILE:C	42:BG:65:GLY:N	2.70	0.45
43:BH:117:PRO:HB3	43:BH:123:PHE:CE1	2.51	0.45
46:BN:111:PRO:HA	46:BN:114:ARG:CZ	2.46	0.45
48:BP:105:LEU:H	48:BP:105:LEU:CD1	2.27	0.45
49:BQ:51:ARG:HG3	49:BQ:51:ARG:HH11	1.82	0.45
49:BQ:52:VAL:C	49:BQ:54:MET:N	2.70	0.45
53:BU:12:ARG:O	53:BU:16:LYS:HD2	2.16	0.45
53:BU:68:ALA:HB1	53:BU:106:PHE:HE2	1.80	0.45
54:BV:91:TYR:CD1	54:BV:92:THR:N	2.84	0.45
54:BV:91:TYR:HD1	54:BV:92:THR:N	2.14	0.45
55:BW:6:ILE:CG2	55:BW:7:ALA:N	2.79	0.45
58:BZ:10:ARG:CG	58:BZ:12:GLY:H	2.29	0.45
58:BZ:39:VAL:O	58:BZ:39:VAL:HG23	2.16	0.45
1:CA:14:U:O2'	1:CA:16:A:N7	2.40	0.45
1:CA:80:G:N2	1:CA:90:U:H5'	2.30	0.45
1:CA:182:U:OP2	1:CA:183:G:OP2	2.33	0.45
1:CA:534:U:H5'	1:CA:534:U:H6	1.82	0.45
1:CA:574:A:HO2'	1:CA:882:C:HO2'	1.64	0.45
1:CA:584:G:OP2	17:CQ:87:LYS:NZ	2.48	0.45
1:CA:602:A:H2'	1:CA:603:U:H6	1.81	0.45
1:CA:630:G:C2'	1:CA:631:G:H5'	2.46	0.45
1:CA:784:C:H2'	1:CA:785:G:C8	2.51	0.45
1:CA:792:A:O2'	1:CA:794:A:C8	2.62	0.45
1:CA:813:U:O2'	1:CA:814:A:H5'	2.16	0.45
1:CA:1032:G:N2	1:CA:1033:G:O6	2.49	0.45
1:CA:1093:A:N3	1:CA:1095:U:H5'	2.31	0.45
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.17	0.45
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.16	0.45
1:CA:1157:A:H1'	1:CA:1181:G:H21	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1368:G:OP2	9:CI:112:LYS:HD2	2.16	0.45
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.16	0.45
2:CB:8:LYS:NZ	2:CB:217:ARG:CZ	2.78	0.45
2:CB:157:ARG:CZ	2:CB:157:ARG:HB3	2.47	0.45
3:CC:139:GLN:OE1	3:CC:139:GLN:HA	2.16	0.45
4:CD:159:ARG:O	4:CD:162:LEU:N	2.49	0.45
5:CE:7:GLU:CB	5:CE:112:LEU:HD21	2.46	0.45
5:CE:75:THR:OG1	5:CE:76:ILE:N	2.49	0.45
8:CH:54:ASP:O	8:CH:56:LYS:HG3	2.16	0.45
13:CM:74:VAL:O	13:CM:75:ALA:C	2.60	0.45
16:CP:13:HIS:O	16:CP:15:PRO:HD3	2.15	0.45
18:CR:53:ARG:N	18:CR:63:GLN:NE2	2.64	0.45
19:CS:36:ARG:HH22	19:CS:75:ALA:HB3	1.80	0.45
25:CZ:35:ALA:HB3	25:CZ:70:TYR:HB2	1.99	0.45
25:CZ:99:MET:HG3	25:CZ:128:VAL:HG22	1.97	0.45
25:CZ:246:LYS:HD3	25:CZ:281:ILE:HG22	1.96	0.45
25:CZ:309:SER:O	25:CZ:310:ILE:HB	2.16	0.45
25:CZ:326:GLU:N	25:CZ:326:GLU:CD	2.74	0.45
26:D0:78:TYR:CD1	26:D0:78:TYR:N	2.85	0.45
27:D1:71:TYR:O	27:D1:73:LEU:N	2.49	0.45
36:DA:347:A:H2'	36:DA:348:G:H8	1.81	0.45
36:DA:363(A):A:N3	36:DA:363(A):A:H2'	2.32	0.45
36:DA:598:G:H5'	48:DP:15:ARG:CB	2.45	0.45
36:DA:742:G:H2'	36:DA:743:G:C8	2.52	0.45
36:DA:1376:C:H2'	36:DA:1377:G:C5'	2.47	0.45
36:DA:1403:C:C2'	36:DA:1404:C:O5'	2.63	0.45
36:DA:1773:A:C2'	36:DA:1774:C:H5'	2.47	0.45
36:DA:1889:A:N1	36:DA:2234:G:H1'	2.31	0.45
36:DA:2123:G:O4'	38:DC:172:HIS:HB2	2.16	0.45
36:DA:2808:U:O4	36:DA:2892:A:C8	2.70	0.45
36:DA:2870:C:O2'	36:DA:2871:C:H5'	2.15	0.45
37:DB:81:G:C2	37:DB:82:G:N7	2.84	0.45
38:DC:117:PRO:HD3	38:DC:146:GLY:H	1.80	0.45
40:DE:134:ILE:C	40:DE:136:ARG:H	2.24	0.45
41:DF:46:ARG:NH1	41:DF:46:ARG:CG	2.73	0.45
41:DF:163:VAL:O	41:DF:164:ARG:C	2.59	0.45
41:DF:174:VAL:HG21	41:DF:189:THR:CG2	2.47	0.45
42:DG:42:GLY:CA	42:DG:90:LEU:H	2.28	0.45
42:DG:59:GLU:HG3	42:DG:60:LEU:N	2.31	0.45
43:DH:89:ILE:O	43:DH:129:THR:HB	2.16	0.45
46:DN:7:LYS:O	46:DN:9:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:8:LEU:N	47:DO:8:LEU:HD13	2.31	0.45
48:DP:16:ARG:HG3	48:DP:17:LYS:H	1.81	0.45
48:DP:71:VAL:HG13	48:DP:72:PRO:CD	2.46	0.45
48:DP:79:ARG:HH22	48:DP:81:GLN:HE21	1.63	0.45
49:DQ:45:GLN:HE21	49:DQ:45:GLN:N	2.12	0.45
50:DR:13:HIS:CE1	50:DR:16:HIS:HB3	2.52	0.45
51:DS:77:ALA:O	51:DS:80:LEU:N	2.47	0.45
54:DV:4:ILE:O	54:DV:39:LEU:HD22	2.16	0.45
54:DV:32:THR:HG22	54:DV:33:VAL:N	2.31	0.45
54:DV:47:VAL:O	54:DV:49:THR:O	2.34	0.45
54:DV:49:THR:CB	54:DV:50:PRO:HD2	2.45	0.45
55:DW:50:VAL:HG22	55:DW:105:VAL:CG2	2.46	0.45
58:DZ:150:LEU:N	58:DZ:150:LEU:HD23	2.31	0.45
1:AA:414:A:C2	1:AA:415:A:H1'	2.52	0.45
1:AA:493:G:H8	1:AA:493:G:O5'	1.98	0.45
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.16	0.45
1:AA:1325:C:H5'	21:AU:15:ARG:NE	2.31	0.45
1:AA:1435:G:C6	1:AA:1436:U:O4	2.70	0.45
2:AB:22:LYS:HE3	2:AB:40:HIS:CE1	2.52	0.45
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.69	0.45
2:AB:223:ILE:O	2:AB:226:ARG:N	2.49	0.45
5:AE:102:ALA:HA	5:AE:120:THR:CG2	2.46	0.45
5:AE:136:MET:O	5:AE:137:GLU:C	2.59	0.45
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.79	0.45
13:AM:84:ILE:HB	19:AS:74:PHE:HD1	1.81	0.45
15:AO:11:VAL:O	15:AO:12:ILE:C	2.58	0.45
22:AW:45:U:H6	22:AW:45:U:H3'	1.82	0.45
24:AY:56:C:O4'	36:BA:1067:A:H1'	2.17	0.45
25:AZ:33:TYR:O	25:AZ:34:VAL:C	2.59	0.45
25:AZ:189:ARG:NE	25:AZ:190:ARG:HG2	2.31	0.45
25:AZ:200:TRP:O	25:AZ:204:ASP:N	2.50	0.45
27:B1:86:SER:O	27:B1:87:PRO:C	2.57	0.45
28:B2:35:LEU:HD21	28:B2:50:ILE:CD1	2.46	0.45
28:B2:38:GLN:HB3	28:B2:44:LEU:CG	2.45	0.45
28:B2:59:ARG:CB	36:BA:76:C:O2'	2.65	0.45
33:B7:43:THR:O	33:B7:44:PRO:C	2.59	0.45
34:B8:54:GLU:O	34:B8:58:ILE:HG12	2.16	0.45
36:BA:71:A:C5	36:BA:73:A:N1	2.85	0.45
36:BA:123:G:C6	36:BA:124:G:C5	3.04	0.45
36:BA:363:G:C2	36:BA:363(A):A:C8	3.04	0.45
36:BA:445:C:H5''	53:BU:3:ARG:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:727:A:H2'	36:BA:728:G:C8	2.51	0.45
36:BA:729:G:C8	39:BD:208:LYS:HD2	2.52	0.45
36:BA:882:G:N2	36:BA:895:U:C2	2.84	0.45
36:BA:968:G:C6	36:BA:969:U:C4	3.04	0.45
36:BA:1216:G:N2	36:BA:1217:C:H1'	2.32	0.45
36:BA:1334:G:H2'	36:BA:1335:U:H6	1.82	0.45
36:BA:1362:C:H2'	36:BA:1363:C:H5'	1.97	0.45
36:BA:1380:G:C4	36:BA:1381:G:N7	2.84	0.45
36:BA:1541:G:C1'	36:BA:1542:A:C4	2.94	0.45
36:BA:1548:C:H2'	36:BA:1549:C:C6	2.51	0.45
36:BA:2133:G:H8	36:BA:2133:G:H3'	1.81	0.45
36:BA:2661:G:O2'	36:BA:2662:A:H5'	2.17	0.45
36:BA:2756:U:C1'	36:BA:2757:A:H5''	2.44	0.45
36:BA:2786:U:C4	36:BA:2787:C:C5	3.04	0.45
37:BB:42:C:N4	42:BG:91:ARG:NH2	2.65	0.45
38:BC:103:ILE:HG23	38:BC:107:TRP:CG	2.52	0.45
39:BD:261:LYS:NZ	39:BD:263:ARG:NH1	2.65	0.45
40:BE:98:PRO:HG3	40:BE:175:VAL:HG12	1.97	0.45
41:BF:48:THR:O	41:BF:49:ALA:C	2.59	0.45
41:BF:115:ALA:O	41:BF:118:ALA:N	2.48	0.45
42:BG:121:ASN:OD1	42:BG:123:ASN:N	2.50	0.45
43:BH:46:GLU:HB3	43:BH:50:VAL:CG1	2.47	0.45
43:BH:65:HIS:O	43:BH:67:LEU:N	2.49	0.45
46:BN:7:LYS:O	46:BN:9:VAL:N	2.50	0.45
46:BN:12:ARG:HG2	46:BN:50:ASP:OD2	2.16	0.45
46:BN:14:VAL:HG12	46:BN:15:LEU:N	2.32	0.45
46:BN:87:LEU:HD13	46:BN:87:LEU:C	2.42	0.45
46:BN:96:GLU:HG2	46:BN:100:GLU:OE2	2.16	0.45
46:BN:114:ARG:O	46:BN:117:PHE:HB3	2.16	0.45
48:BP:83:VAL:HG12	48:BP:113:LYS:O	2.17	0.45
49:BQ:90:VAL:HG12	49:BQ:91:GLU:N	2.32	0.45
50:BR:75:LEU:HD22	50:BR:75:LEU:HA	1.79	0.45
50:BR:85:PRO:O	50:BR:87:TYR:N	2.50	0.45
52:BT:92:GLY:HA3	52:BT:120:ARG:NH2	2.31	0.45
54:BV:75:PHE:HB2	54:BV:82:ARG:HG3	1.98	0.45
56:BX:49:VAL:CB	56:BX:87:GLN:NE2	2.79	0.45
57:BY:27:VAL:HG12	57:BY:28:LYS:N	2.32	0.45
57:BY:77:PRO:HB2	57:BY:99:CYS:HG	1.75	0.45
58:BZ:127:LYS:HD2	58:BZ:162:GLU:OE2	2.16	0.45
1:CA:511:C:N4	1:CA:541:G:C2	2.85	0.45
1:CA:517:G:H5'	1:CA:519:C:C2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:600:C:OP1	8:CH:97:VAL:HG12	2.15	0.45
1:CA:657:G:H1	1:CA:749:C:N4	2.14	0.45
1:CA:828:A:N6	1:CA:858:G:O2'	2.49	0.45
1:CA:863:U:H2'	1:CA:864:A:C5'	2.47	0.45
1:CA:934:C:C5	1:CA:1344:C:C4	3.05	0.45
1:CA:1173:G:H2'	1:CA:1174:G:C8	2.51	0.45
1:CA:1313:U:P	19:CS:6:LYS:HB2	2.57	0.45
1:CA:1381:U:C5	1:CA:1382:C:C4	3.04	0.45
1:CA:1445:C:O2'	1:CA:1446:U:H5'	2.16	0.45
2:CB:21:ARG:C	2:CB:22:LYS:HG2	2.42	0.45
2:CB:112:VAL:O	2:CB:113:HIS:C	2.60	0.45
2:CB:170:GLU:O	2:CB:173:ALA:HB3	2.17	0.45
2:CB:178:ARG:NH1	8:CH:74:PRO:HD3	2.32	0.45
3:CC:29:TYR:HE1	10:CJ:65:LEU:HD21	1.82	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:NH2	2.32	0.45
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.47	0.45
7:CG:91:VAL:HG22	7:CG:95:ARG:HD3	1.99	0.45
7:CG:116:ALA:HA	7:CG:119:ARG:NH1	2.32	0.45
9:CI:5:TYR:CD1	9:CI:6:GLY:N	2.83	0.45
12:CL:27:LEU:O	12:CL:29:GLY:N	2.49	0.45
14:CN:9:LYS:HA	14:CN:12:ARG:NH2	2.32	0.45
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.98	0.45
22:CV:9:A:O2'	22:CV:10:G:N7	2.49	0.45
22:CW:59:U:H2'	22:CW:59:U:O2	2.16	0.45
24:CY:60:U:C5'	24:CY:61:C:H5	2.30	0.45
24:CY:70:A:C2	24:CY:71:G:C8	3.05	0.45
25:CZ:263:ARG:HE	25:CZ:297:GLU:HB3	1.81	0.45
26:D0:39:ARG:HH21	36:DA:2354:G:H22	1.64	0.45
27:D1:79:GLY:HA2	36:DA:271(H):G:H21	1.81	0.45
33:D7:11:LYS:HE3	33:D7:15:THR:HG21	1.98	0.45
36:DA:45:C:OP2	36:DA:215:G:H2'	2.16	0.45
36:DA:84:A:C5'	57:DY:9:LYS:HD2	2.35	0.45
36:DA:251:A:H2'	36:DA:252:G:C5'	2.46	0.45
36:DA:319:C:H2'	36:DA:320:A:O4'	2.16	0.45
36:DA:491:G:H2'	36:DA:492:A:O4'	2.17	0.45
36:DA:598:G:C5'	48:DP:15:ARG:HD3	2.35	0.45
36:DA:642:G:H8	36:DA:642:G:O5'	1.98	0.45
36:DA:685:A:N1	36:DA:787:U:H1'	2.31	0.45
36:DA:976:C:H2'	36:DA:977:G:C8	2.51	0.45
36:DA:1053:C:C5	36:DA:1054:A:N7	2.84	0.45
36:DA:1520:G:H2'	36:DA:1523:U:C5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1613:G:C3'	36:DA:1614:A:H5''	2.46	0.45
36:DA:1628:G:O2'	36:DA:1629:U:H5'	2.17	0.45
36:DA:1857:G:O2'	36:DA:1885:A:N6	2.50	0.45
36:DA:2028:U:C2'	36:DA:2029:G:O4'	2.63	0.45
36:DA:2115:G:C2	36:DA:2117:A:C8	3.04	0.45
36:DA:2400:G:H2'	36:DA:2401:U:H5'	1.99	0.45
36:DA:2761:G:C3'	36:DA:2762:G:H5''	2.45	0.45
36:DA:2853:C:H2'	36:DA:2854:G:H8	1.80	0.45
37:DB:106:G:H5''	58:DZ:31:ARG:HB3	1.99	0.45
38:DC:100:ILE:HG21	38:DC:126:LYS:HB2	1.97	0.45
39:DD:161:THR:N	39:DD:196:VAL:HB	2.31	0.45
40:DE:108:SER:O	40:DE:162:ALA:CA	2.65	0.45
41:DF:11:VAL:C	41:DF:13:SER:N	2.73	0.45
43:DH:67:LEU:CG	43:DH:71:LEU:HD11	2.37	0.45
47:DO:8:LEU:O	47:DO:9:GLU:C	2.60	0.45
47:DO:25:LEU:HD11	47:DO:40:VAL:CG2	2.47	0.45
48:DP:23:PRO:HA	48:DP:29:LYS:C	2.42	0.45
48:DP:121:LYS:O	48:DP:123:LEU:N	2.38	0.45
49:DQ:77:LYS:HD3	49:DQ:81:VAL:HG11	1.98	0.45
50:DR:66:VAL:C	50:DR:68:ARG:N	2.74	0.45
53:DU:52:ARG:CZ	53:DU:55:ARG:NH2	2.75	0.45
55:DW:14:PRO:CG	55:DW:78:GLU:CD	2.89	0.45
56:DX:57:LEU:N	56:DX:57:LEU:CD1	2.79	0.45
58:DZ:24:LEU:HD23	58:DZ:24:LEU:C	2.42	0.45
58:DZ:44:PHE:CE1	58:DZ:48:PHE:CG	3.05	0.45
1:AA:59:A:N6	1:AA:331:G:H1'	2.32	0.45
1:AA:132:C:N3	1:AA:231:G:C2	2.85	0.45
1:AA:443:C:H2'	1:AA:444:C:H6	1.80	0.45
1:AA:774:G:O2'	1:AA:775:G:H5'	2.17	0.45
1:AA:995:C:N4	1:AA:1046:A:H2'	2.31	0.45
1:AA:998:G:C2	1:AA:1044:A:N1	2.85	0.45
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.16	0.45
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.51	0.45
1:AA:1246:C:O2'	1:AA:1247:U:H5'	2.17	0.45
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.45
1:AA:1418:A:C8	1:AA:1419:G:H1'	2.52	0.45
1:AA:1436:U:H3	1:AA:1465:C:N4	2.10	0.45
2:AB:155:LEU:HD22	2:AB:157:ARG:O	2.16	0.45
3:AC:7:PRO:HG3	3:AC:184:TYR:CD1	2.52	0.45
3:AC:36:ASP:O	3:AC:40:ARG:NH1	2.50	0.45
3:AC:196:LEU:HB3	3:AC:197:GLY:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:24:GLU:H	4:AD:112:VAL:HG21	1.80	0.45
4:AD:106:TYR:CD2	4:AD:106:TYR:C	2.94	0.45
5:AE:7:GLU:OE1	5:AE:37:ARG:NE	2.41	0.45
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.80	0.45
9:AI:10:ARG:HE	9:AI:10:ARG:CA	2.29	0.45
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.16	0.45
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HG	1.97	0.45
10:AJ:40:LEU:HB2	10:AJ:41:PRO:CD	2.40	0.45
12:AL:23:LYS:C	12:AL:24:VAL:CG2	2.89	0.45
14:AN:23:ARG:O	14:AN:24:CYS:C	2.59	0.45
14:AN:44:LEU:HD12	14:AN:44:LEU:C	2.42	0.45
15:AO:34:LEU:HD12	15:AO:34:LEU:O	2.16	0.45
17:AQ:27:PHE:CE1	17:AQ:36:ILE:HD11	2.51	0.45
22:AV:49:C:O2'	22:AV:50:U:P	2.74	0.45
22:AW:56:C:H1'	38:BC:133:PRO:HD3	1.98	0.45
25:AZ:154:VAL:HG12	25:AZ:158:LEU:CD1	2.46	0.45
32:B6:19:ARG:CZ	36:BA:2400:G:O3'	2.64	0.45
33:B7:29:LYS:HE3	36:BA:210:C:OP2	2.15	0.45
36:BA:17:G:H21	36:BA:555:U:H5''	1.81	0.45
36:BA:218:A:C2'	36:BA:219:G:H5'	2.46	0.45
36:BA:363:G:C6	36:BA:363(A):A:N7	2.84	0.45
36:BA:431:U:H6	36:BA:431:U:O5'	2.00	0.45
36:BA:597:U:C5'	48:BP:15:ARG:NH2	2.79	0.45
36:BA:671:C:H2'	36:BA:672:C:C6	2.52	0.45
36:BA:806:C:H2'	36:BA:807:U:C6	2.52	0.45
36:BA:811:U:C6	48:BP:24:GLY:HA3	2.51	0.45
36:BA:883:G:N2	36:BA:893:C:C2	2.84	0.45
36:BA:978:G:C2	36:BA:979:G:H1'	2.51	0.45
36:BA:1051:G:H2'	36:BA:1052:C:C2	2.51	0.45
36:BA:1141:U:H5	46:BN:64:GLY:HA3	1.79	0.45
36:BA:1351:C:N3	36:BA:1381:G:C2	2.84	0.45
36:BA:1376:C:H2'	36:BA:1377:G:C5'	2.46	0.45
36:BA:1471:A:OP2	36:BA:1519:G:N1	2.50	0.45
36:BA:1558:A:C5	36:BA:1560:G:C8	3.05	0.45
36:BA:1666:G:H5'	36:BA:1666:G:H8	1.81	0.45
36:BA:1706:U:O2	36:BA:1757:U:H5'	2.17	0.45
36:BA:1856:G:H2'	36:BA:1857:G:C5'	2.46	0.45
36:BA:2808:U:O4	36:BA:2892:A:C8	2.69	0.45
40:BE:93:VAL:HG23	40:BE:180:ASN:OD1	2.17	0.45
40:BE:108:SER:O	40:BE:162:ALA:CA	2.63	0.45
41:BF:65:TRP:HB3	41:BF:66:PRO:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:47:LYS:HG3	42:BG:81:LYS:HE2	1.98	0.45
43:BH:23:ARG:O	43:BH:24:VAL:CG2	2.58	0.45
46:BN:2:LYS:HZ1	54:BV:12:TYR:CA	2.29	0.45
46:BN:44:PRO:HG3	53:BU:60:LEU:HD21	1.98	0.45
46:BN:48:MET:SD	46:BN:49:GLY:N	2.89	0.45
46:BN:101:HIS:O	46:BN:102:ALA:C	2.60	0.45
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.45	0.45
47:BO:23:ARG:HG3	47:BO:24:VAL:H	1.79	0.45
49:BQ:89:ASN:OD1	49:BQ:89:ASN:N	2.49	0.45
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.74	0.45
51:BS:98:VAL:HG12	51:BS:100:ALA:HB2	1.98	0.45
52:BT:27:THR:HG23	52:BT:28:VAL:N	2.31	0.45
52:BT:61:PHE:N	52:BT:61:PHE:CD2	2.84	0.45
54:BV:35:LEU:O	54:BV:37:VAL:N	2.50	0.45
58:BZ:40:ASP:HB3	58:BZ:43:GLU:HB3	1.97	0.45
58:BZ:127:LYS:O	58:BZ:127:LYS:HG3	2.16	0.45
1:CA:273:A:H2'	1:CA:274:A:O4'	2.17	0.45
1:CA:319:G:C2'	1:CA:320:C:H5'	2.46	0.45
1:CA:921:U:H2'	1:CA:922:G:O4'	2.17	0.45
1:CA:1256:A:N1	1:CA:1277:C:H2'	2.31	0.45
1:CA:1258:G:O5'	1:CA:1258:G:H8	2.00	0.45
1:CA:1288:A:H1'	1:CA:1352:C:HO2'	1.80	0.45
1:CA:1383:C:O2'	1:CA:1384:C:H5'	2.17	0.45
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.17	0.45
1:CA:1522:U:H2'	1:CA:1523:G:H8	1.82	0.45
3:CC:83:ARG:O	3:CC:85:ARG:N	2.49	0.45
3:CC:186:PHE:CD1	3:CC:198:VAL:O	2.70	0.45
4:CD:79:PHE:CA	4:CD:93:PHE:CE2	2.97	0.45
4:CD:187:ARG:HG2	4:CD:188:LEU:N	2.31	0.45
5:CE:13:ILE:HA	5:CE:29:GLY:O	2.16	0.45
5:CE:145:LYS:HE2	5:CE:149:GLU:OE2	2.17	0.45
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.16	0.45
8:CH:83:ILE:HG23	8:CH:83:ILE:O	2.15	0.45
10:CJ:6:ILE:HG13	10:CJ:6:ILE:O	2.16	0.45
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HG	1.99	0.45
12:CL:10:LEU:O	12:CL:14:GLY:N	2.46	0.45
13:CM:115:LYS:O	13:CM:116:THR:O	2.35	0.45
15:CO:77:ARG:HA	15:CO:80:ALA:HB3	1.98	0.45
20:CT:23:ARG:HG2	20:CT:23:ARG:NH1	2.32	0.45
29:D3:45:GLY:HA2	29:D3:48:GLU:CG	2.47	0.45
36:DA:27:G:H22	36:DA:512:G:H2'	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:71:A:H3'	36:DA:71:A:OP2	2.17	0.45
36:DA:173:G:H2'	36:DA:173:G:N3	2.31	0.45
36:DA:552:G:H1'	36:DA:1220:A:C6	2.50	0.45
36:DA:566:U:H4'	36:DA:809:G:OP2	2.17	0.45
36:DA:673:C:OP1	41:DF:54:ARG:HD2	2.16	0.45
36:DA:1131:G:N7	36:DA:2025:C:H4'	2.32	0.45
36:DA:1545:A:N7	36:DA:1546:C:C2	2.84	0.45
36:DA:1591:G:C2'	36:DA:1592:C:H5'	2.46	0.45
36:DA:1770:G:C2'	36:DA:1771:C:H5'	2.47	0.45
36:DA:1770:G:O2'	36:DA:1771:C:H5'	2.17	0.45
36:DA:1811:G:H2'	36:DA:1812:A:H8	1.80	0.45
36:DA:1945:G:C6	36:DA:1946:U:C4	3.04	0.45
36:DA:1953:A:H2	36:DA:2549:G:N3	2.13	0.45
36:DA:1974:C:C4	36:DA:1975:G:N7	2.85	0.45
36:DA:2137:C:H42	36:DA:2154:G:H22	1.62	0.45
36:DA:2282:G:C4'	36:DA:2283:C:O5'	2.64	0.45
36:DA:2361:A:C4	36:DA:2362:G:C8	3.05	0.45
36:DA:2635:C:H2'	36:DA:2636:U:O5'	2.17	0.45
36:DA:2810:A:O2'	40:DE:61:ARG:NE	2.50	0.45
36:DA:2826:A:C2'	36:DA:2827:C:H5'	2.47	0.45
39:DD:73:VAL:HG13	39:DD:120:GLY:CA	2.46	0.45
39:DD:261:LYS:HZ1	39:DD:263:ARG:NH1	2.13	0.45
41:DF:9:ILE:HG23	41:DF:13:SER:O	2.15	0.45
41:DF:31:HIS:HE1	41:DF:34:TRP:CZ3	2.35	0.45
41:DF:192:LEU:CD2	41:DF:194:MET:HE2	2.47	0.45
42:DG:58:GLN:C	42:DG:58:GLN:CD	2.85	0.45
42:DG:68:PRO:HA	42:DG:92:VAL:HB	1.99	0.45
46:DN:103:VAL:C	46:DN:105:GLY:N	2.74	0.45
48:DP:112:LEU:HD13	48:DP:112:LEU:C	2.40	0.45
49:DQ:30:GLY:HA2	49:DQ:107:ALA:HB2	1.98	0.45
49:DQ:111:GLU:CD	49:DQ:133:ARG:HH22	2.23	0.45
57:DY:46:LYS:HB2	57:DY:62:GLU:HG3	1.95	0.45
58:DZ:77:ASP:OD2	58:DZ:79:ARG:C	2.60	0.45
1:AA:110:C:O2'	16:AP:25:ARG:O	2.35	0.45
1:AA:266:G:H1'	1:AA:268:C:OP2	2.17	0.45
1:AA:266:G:H5'	1:AA:267:C:C5	2.51	0.45
1:AA:314:C:N4	1:AA:315:A:N6	2.64	0.45
1:AA:397:A:N7	1:AA:547:A:H2'	2.32	0.45
1:AA:657:G:H1	1:AA:749:C:N4	2.15	0.45
1:AA:798:G:C2'	1:AA:799:G:O5'	2.64	0.45
1:AA:819:A:N6	1:AA:1529:G:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:858:G:C6	1:AA:869:G:C8	3.04	0.45
1:AA:961:U:O2'	1:AA:962:C:C6	2.69	0.45
1:AA:1094:G:H3'	1:AA:1108:G:H22	1.82	0.45
1:AA:1148:U:O2'	1:AA:1149:C:H5'	2.16	0.45
1:AA:1339:A:O4'	22:AV:41:C:H1'	2.17	0.45
1:AA:1438:G:N1	1:AA:1439:C:C4	2.83	0.45
1:AA:1520:G:C2'	1:AA:1521:G:O5'	2.64	0.45
1:AA:1527:C:O2'	1:AA:1528:U:H5'	2.17	0.45
2:AB:25:ASN:HB2	2:AB:191:ASP:O	2.17	0.45
2:AB:224:GLN:C	2:AB:226:ARG:N	2.73	0.45
3:AC:29:TYR:HE1	10:AJ:65:LEU:HD21	1.82	0.45
3:AC:92:ALA:HB2	3:AC:99:VAL:CG2	2.47	0.45
3:AC:103:VAL:HG12	3:AC:104:GLN:N	2.31	0.45
4:AD:49:ARG:O	4:AD:51:PRO:CD	2.65	0.45
4:AD:156:GLU:O	4:AD:159:ARG:HB2	2.16	0.45
6:AF:79:LEU:O	6:AF:81:ILE:N	2.49	0.45
8:AH:137:VAL:HG12	8:AH:138:TRP:N	2.31	0.45
11:AK:101:SER:OG	11:AK:103:LEU:HD23	2.17	0.45
15:AO:11:VAL:HG12	15:AO:12:ILE:N	2.30	0.45
15:AO:77:ARG:HA	15:AO:80:ALA:HB3	1.98	0.45
17:AQ:7:THR:HA	17:AQ:57:VAL:O	2.16	0.45
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.44	0.45
18:AR:52:PRO:C	18:AR:54:ARG:N	2.72	0.45
22:AV:9:A:O2'	22:AV:10:G:N7	2.49	0.45
22:AV:20:U:C5'	22:AV:21:A:OP2	2.65	0.45
22:AW:16:U:C4	22:AW:19:G:OP1	2.69	0.45
25:AZ:32:THR:O	25:AZ:35:ALA:N	2.46	0.45
25:AZ:134:PHE:CD2	25:AZ:136:ASN:HB2	2.52	0.45
28:B2:48:HIS:O	28:B2:50:ILE:N	2.50	0.45
29:B3:12:PRO:HG2	29:B3:13:ILE:N	2.28	0.45
32:B6:35:GLU:HB3	32:B6:51:GLU:CG	2.46	0.45
34:B8:58:ILE:HG22	34:B8:58:ILE:O	2.17	0.45
36:BA:28:A:C2	53:BU:11:ARG:NH2	2.84	0.45
36:BA:591:C:H2'	36:BA:592:G:C8	2.50	0.45
36:BA:597:U:H5''	48:BP:15:ARG:NH2	2.31	0.45
36:BA:970:C:H2'	36:BA:971:C:H6	1.81	0.45
36:BA:1216:G:C2'	36:BA:1217:C:H5'	2.46	0.45
36:BA:1268:A:C8	36:BA:1269:A:C8	3.05	0.45
36:BA:1334:G:O2'	36:BA:1335:U:H5'	2.17	0.45
36:BA:1477:A:H5'	36:BA:1478:G:OP2	2.17	0.45
36:BA:1567:A:C5'	39:BD:58:HIS:HD2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1654:A:OP1	50:BR:3:HIS:N	2.50	0.45
36:BA:1932:A:H2'	36:BA:1933:G:O4'	2.16	0.45
36:BA:2138:C:H2'	36:BA:2139:C:H6	1.82	0.45
36:BA:2187:G:N7	36:BA:2188:C:C5	2.85	0.45
36:BA:2282:G:H5''	36:BA:2283:C:O5'	2.17	0.45
36:BA:2710:C:C2'	36:BA:2711:A:H5'	2.47	0.45
36:BA:2720:U:C2	36:BA:2721:A:C8	3.05	0.45
36:BA:2808:U:H5'	36:BA:2891:G:O6	2.16	0.45
37:BB:35:U:H2'	37:BB:36:C:C6	2.52	0.45
37:BB:104:U:H2'	37:BB:105:A:H8	1.82	0.45
37:BB:105:A:C2	37:BB:106:G:H1'	2.52	0.45
40:BE:171:GLU:OE2	40:BE:172:VAL:C	2.60	0.45
42:BG:54:GLU:OE1	42:BG:54:GLU:N	2.50	0.45
47:BO:2:ILE:CG2	47:BO:3:GLN:N	2.79	0.45
47:BO:104:ARG:HH22	47:BO:107:ARG:NH2	2.15	0.45
50:BR:100:LEU:CD2	50:BR:112:ALA:HA	2.47	0.45
52:BT:31:SER:O	52:BT:32:TYR:O	2.35	0.45
53:BU:28:ARG:HH11	53:BU:38:THR:HG23	1.80	0.45
58:BZ:6:LYS:O	58:BZ:7:ALA:O	2.34	0.45
58:BZ:8:TYR:HB3	58:BZ:38:TYR:CZ	2.52	0.45
58:BZ:132:ASN:C	58:BZ:134:PRO:CD	2.90	0.45
1:CA:70:G:H2'	1:CA:71:C:H5'	1.98	0.45
1:CA:161:A:O2'	1:CA:162:A:H5'	2.17	0.45
1:CA:264:U:H2'	1:CA:265:G:C8	2.52	0.45
1:CA:363:A:C2	12:CL:31:PRO:HG2	2.51	0.45
1:CA:397:A:H3'	1:CA:397:A:N3	2.32	0.45
1:CA:657:G:C2	1:CA:750:G:C5	3.05	0.45
1:CA:916:G:C2	1:CA:917:G:C8	3.04	0.45
1:CA:929:G:O2'	1:CA:930:C:H5'	2.16	0.45
1:CA:1285:A:O2'	1:CA:1286:A:P	2.74	0.45
1:CA:1303:C:C2	1:CA:1304:G:C8	3.05	0.45
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.98	0.45
2:CB:157:ARG:CZ	2:CB:157:ARG:CB	2.95	0.45
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.30	0.45
4:CD:20:TYR:CD1	4:CD:20:TYR:N	2.85	0.45
5:CE:107:ARG:C	5:CE:109:ILE:N	2.73	0.45
8:CH:5:PRO:HB2	8:CH:6:ILE:HD12	1.98	0.45
8:CH:134:ILE:O	8:CH:135:CYS:HB3	2.17	0.45
9:CI:99:LEU:O	9:CI:101:PHE:N	2.50	0.45
13:CM:28:ALA:C	13:CM:30:ALA:N	2.74	0.45
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.79	0.45
21:CU:5:ASP:HB3	21:CU:8:THR:HG23	1.97	0.45
22:CW:49:C:HO2'	22:CW:50:U:H6	1.63	0.45
25:CZ:13:ASN:HA	25:CZ:78:SER:HB2	1.97	0.45
25:CZ:38:GLU:OE2	25:CZ:39:ASN:ND2	2.50	0.45
26:D0:12:ASN:O	26:D0:14:ARG:N	2.46	0.45
26:D0:24:LYS:HG3	36:DA:2355:C:H4'	1.98	0.45
28:D2:47:ASN:ND2	36:DA:94(A):G:N2	2.54	0.45
28:D2:48:HIS:O	28:D2:52:ASP:OD2	2.35	0.45
31:D5:15:ARG:NH2	36:DA:2022:U:OP2	2.50	0.45
31:D5:16:ARG:NH1	31:D5:16:ARG:HG2	2.32	0.45
31:D5:40:LYS:NZ	31:D5:46:CYS:N	2.65	0.45
32:D6:36:LEU:O	32:D6:37:ARG:HB2	2.16	0.45
32:D6:41:PRO:HG3	32:D6:49:HIS:CE1	2.51	0.45
35:D9:13:LYS:HD2	35:D9:28:GLU:CB	2.46	0.45
36:DA:251:A:C2'	36:DA:252:G:H5'	2.47	0.45
36:DA:329:G:N1	57:DY:19:LYS:HE3	2.28	0.45
36:DA:391:G:C4	36:DA:392:C:C6	3.05	0.45
36:DA:871:U:O2	36:DA:871:U:H2'	2.17	0.45
36:DA:1006:C:H2'	36:DA:1007:C:H6	1.81	0.45
36:DA:1131:G:C2	46:DN:75:TYR:HB2	2.52	0.45
36:DA:1464:C:N3	36:DA:1465:G:N7	2.64	0.45
36:DA:1773:A:N6	36:DA:1829:A:H1'	2.31	0.45
36:DA:2111:C:C4	36:DA:2145:C:H2'	2.51	0.45
36:DA:2239:G:H2'	36:DA:2240:C:C6	2.52	0.45
36:DA:2392:A:H2'	36:DA:2393:A:O4'	2.17	0.45
36:DA:2709:G:H2'	36:DA:2710:C:C6	2.52	0.45
36:DA:2756:U:O2'	36:DA:2757:A:H5''	2.16	0.45
36:DA:2880:C:O2	50:DR:91:GLN:O	2.35	0.45
37:DB:72:G:H1'	37:DB:106:G:N2	2.32	0.45
37:DB:81:G:N3	37:DB:81:G:H5'	2.32	0.45
38:DC:161:ILE:C	38:DC:161:ILE:CD1	2.81	0.45
39:DD:261:LYS:NZ	39:DD:263:ARG:NH1	2.65	0.45
40:DE:93:VAL:HG12	40:DE:175:VAL:HG21	1.98	0.45
40:DE:188:VAL:O	40:DE:189:PRO:O	2.34	0.45
41:DF:158:THR:HG23	41:DF:160:ASN:H	1.82	0.45
41:DF:181:LEU:HD11	41:DF:186:ILE:CD1	2.34	0.45
42:DG:66:GLN:NE2	42:DG:93:THR:O	2.50	0.45
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.31	0.45
47:DO:104:ARG:O	47:DO:105:GLU:C	2.57	0.45
49:DQ:63:LYS:HE3	49:DQ:65:PHE:HE1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:20:VAL:CG2	55:DW:47:VAL:HG21	2.42	0.45
55:DW:70:TYR:OH	55:DW:72:LYS:HG2	2.16	0.45
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.16	0.45
1:AA:80:G:N2	1:AA:90:U:H5'	2.30	0.45
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.35	0.45
1:AA:409:G:OP1	4:AD:22:LYS:O	2.34	0.45
1:AA:901:A:C5	1:AA:902:G:H1'	2.51	0.45
1:AA:954:G:H21	1:AA:1227:A:N6	2.15	0.45
1:AA:962:C:O2	1:AA:1201:A:C2	2.70	0.45
1:AA:1069:C:C2'	1:AA:1070:U:O5'	2.65	0.45
1:AA:1202:G:C4	14:AN:42:ILE:HG21	2.52	0.45
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.46	0.45
1:AA:1364:U:OP1	1:AA:1364:U:H6	1.99	0.45
2:AB:17:PHE:O	2:AB:18:GLY:O	2.34	0.45
2:AB:21:ARG:C	2:AB:22:LYS:HG2	2.41	0.45
2:AB:68:ILE:HG12	2:AB:161:ALA:HB3	1.99	0.45
2:AB:209:ARG:HH11	2:AB:239:VAL:CG1	2.19	0.45
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.42	0.45
3:AC:39:ILE:HG22	3:AC:40:ARG:N	2.32	0.45
4:AD:19:LEU:HD23	4:AD:67:ILE:HG13	1.98	0.45
10:AJ:40:LEU:CD1	10:AJ:69:ASN:HB3	2.47	0.45
12:AL:101:VAL:O	12:AL:104:VAL:HG23	2.16	0.45
13:AM:74:VAL:HA	13:AM:77:ASN:ND2	2.31	0.45
14:AN:42:ILE:HG22	14:AN:43:CYS:H	1.82	0.45
18:AR:34:TYR:CD1	18:AR:35:ARG:HG3	2.51	0.45
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.17	0.45
22:AW:55:U:O2'	22:AW:56:C:C6	2.69	0.45
24:AY:12:U:H3	24:AY:23:A:H2	1.65	0.45
25:AZ:191:GLY:HA2	25:AZ:196:VAL:CG1	2.39	0.45
25:AZ:238:ALA:O	25:AZ:287:GLY:HA2	2.17	0.45
25:AZ:331:HIS:H	25:AZ:331:HIS:CD2	2.35	0.45
27:B1:37:ILE:H	27:B1:37:ILE:CD1	2.29	0.45
28:B2:68:ARG:NH2	28:B2:72:ALA:CB	2.79	0.45
32:B6:12:GLU:HG3	32:B6:23:THR:HG22	1.98	0.45
32:B6:17:LYS:HD3	32:B6:17:LYS:HA	1.43	0.45
32:B6:42:TRP:HA	32:B6:42:TRP:HE3	1.82	0.45
36:BA:251:A:C2'	36:BA:252:G:H5'	2.47	0.45
36:BA:401:A:H2'	36:BA:402:A:H8	1.81	0.45
36:BA:675:A:O2'	36:BA:676:A:H5'	2.17	0.45
36:BA:1028:A:H8	36:BA:1028:A:O5'	1.99	0.45
36:BA:1244:G:H5'	36:BA:1244:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1245:G:C5'	41:BF:34:TRP:HZ2	2.28	0.45
36:BA:1332:G:H5'	36:BA:1333:C:H5	1.81	0.45
36:BA:1423:G:H1	36:BA:1575:C:H42	1.63	0.45
36:BA:1853:A:N6	36:BA:1888:G:H2'	2.32	0.45
36:BA:1897:G:O5'	36:BA:1897:G:H8	2.00	0.45
36:BA:2090:G:H2'	36:BA:2091:U:O4'	2.16	0.45
36:BA:2115:G:C2	36:BA:2117:A:C8	3.04	0.45
36:BA:2197:U:O4	36:BA:2224:G:H2'	2.17	0.45
36:BA:2465:C:O2'	36:BA:2466:C:H5'	2.16	0.45
36:BA:2562:U:H2'	36:BA:2563:U:C5'	2.45	0.45
36:BA:2838:G:H2'	36:BA:2839:G:H8	1.82	0.45
36:BA:2839:G:O2'	50:BR:92:GLY:HA2	2.17	0.45
39:BD:3:VAL:CG1	39:BD:17:THR:HB	2.47	0.45
40:BE:103:ASP:OD2	40:BE:202:LYS:HE3	2.16	0.45
41:BF:7:TYR:HD2	41:BF:16:GLY:CA	2.30	0.45
42:BG:36:LYS:HD2	42:BG:36:LYS:C	2.41	0.45
42:BG:44:GLY:HA2	42:BG:88:ILE:HB	1.98	0.45
42:BG:60:LEU:O	42:BG:60:LEU:CD1	2.64	0.45
43:BH:37:VAL:CG2	43:BH:72:ILE:HD11	2.47	0.45
46:BN:67:LEU:O	46:BN:68:GLU:HB2	2.16	0.45
47:BO:11:ALA:O	47:BO:98:VAL:HA	2.17	0.45
48:BP:23:PRO:HA	48:BP:29:LYS:C	2.42	0.45
49:BQ:30:GLY:HA2	49:BQ:107:ALA:HB2	1.97	0.45
49:BQ:98:LYS:O	49:BQ:99:PRO:C	2.60	0.45
50:BR:42:LYS:O	50:BR:44:LEU:N	2.50	0.45
50:BR:110:PRO:C	50:BR:111:LEU:HD12	2.41	0.45
51:BS:84:GLN:N	51:BS:105:ALA:HB3	2.31	0.45
52:BT:6:LEU:HD23	52:BT:9:LEU:HD12	1.99	0.45
52:BT:89:VAL:O	52:BT:91:ARG:HG3	2.17	0.45
54:BV:2:PHE:HB3	54:BV:41:GLY:O	2.17	0.45
1:CA:152:A:N6	1:CA:170:U:C2	2.85	0.45
1:CA:282:A:N3	1:CA:282:A:H2'	2.32	0.45
1:CA:364:A:H2'	1:CA:365:U:O2	2.17	0.45
1:CA:585:G:H1	1:CA:756:C:N4	2.13	0.45
1:CA:763:G:H2'	1:CA:764:C:C6	2.52	0.45
1:CA:878:G:OP1	8:CH:90:GLY:HA3	2.17	0.45
1:CA:1206:G:H4'	3:CC:192:THR:O	2.17	0.45
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.17	0.45
1:CA:1509:C:H42	1:CA:1526:G:H1	1.63	0.45
1:CA:1525:G:OP2	11:CK:126:ARG:NH2	2.45	0.45
2:CB:100:GLY:O	2:CB:102:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:167:PRO:HG3	2:CB:188:ALA:HB2	1.99	0.45
2:CB:223:ILE:O	2:CB:226:ARG:HB3	2.16	0.45
2:CB:224:GLN:HA	2:CB:229:VAL:HG22	1.98	0.45
3:CC:142:MET:SD	3:CC:148:GLY:CA	3.04	0.45
4:CD:19:LEU:HD12	4:CD:19:LEU:N	2.31	0.45
4:CD:59:ARG:HE	4:CD:59:ARG:HA	1.82	0.45
4:CD:73:ARG:HD3	4:CD:73:ARG:HA	1.81	0.45
4:CD:103:ASN:O	4:CD:104:VAL:C	2.60	0.45
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.65	0.45
7:CG:31:MET:HB2	7:CG:39:ALA:CB	2.45	0.45
10:CJ:17:ASP:CB	10:CJ:70:ARG:NH2	2.79	0.45
16:CP:45:THR:C	16:CP:47:ASP:N	2.68	0.45
17:CQ:24:GLU:HA	17:CQ:39:SER:HA	1.98	0.45
17:CQ:48:GLU:OE1	17:CQ:50:LYS:HD3	2.17	0.45
17:CQ:52:LYS:O	17:CQ:55:ASP:OD1	2.34	0.45
25:CZ:33:TYR:O	25:CZ:34:VAL:C	2.60	0.45
25:CZ:104:LEU:HD13	25:CZ:120:ILE:HD11	1.97	0.45
25:CZ:215:ARG:O	25:CZ:216:ASP:C	2.59	0.45
26:D0:10:THR:HG23	26:D0:12:ASN:OD1	2.16	0.45
27:D1:80:LEU:HD23	27:D1:81:LYS:N	2.26	0.45
27:D1:91:LYS:O	27:D1:93:GLU:N	2.46	0.45
29:D3:50:VAL:C	29:D3:52:HIS:N	2.73	0.45
29:D3:50:VAL:O	29:D3:52:HIS:N	2.50	0.45
30:D4:9:LEU:O	30:D4:10:VAL:HG12	2.17	0.45
35:D9:4:ARG:O	35:D9:36:GLN:HA	2.16	0.45
36:DA:149:A:C2	36:DA:150:C:N3	2.84	0.45
36:DA:271(V):G:C6	36:DA:271(W):G:C2	3.05	0.45
36:DA:364:C:O2	36:DA:364:C:C2'	2.60	0.45
36:DA:853:G:H2'	36:DA:854:G:O4'	2.17	0.45
36:DA:909:A:O2'	36:DA:910:A:C5'	2.65	0.45
36:DA:1028:A:N3	36:DA:2486:G:O2'	2.41	0.45
36:DA:1170:G:H5''	36:DA:1173:G:H22	1.81	0.45
36:DA:1319:G:C6	36:DA:1320:C:N4	2.85	0.45
36:DA:2049:G:O2'	36:DA:2050:C:H5'	2.16	0.45
36:DA:2055:C:H5'	36:DA:2056:G:O5'	2.16	0.45
36:DA:2633:G:C5'	36:DA:2812:G:H5'	2.46	0.45
36:DA:2641:G:OP2	46:DN:74:ARG:CZ	2.64	0.45
36:DA:2661:G:O2'	36:DA:2662:A:H5'	2.16	0.45
36:DA:2773:C:O2'	36:DA:2774:C:H5'	2.17	0.45
36:DA:2823:A:OP2	40:DE:112:GLY:HA3	2.17	0.45
38:DC:103:ILE:HG23	38:DC:107:TRP:CG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DD:223:GLY:HA3	39:DD:231:HIS:CD2	2.51	0.45
39:DD:231:HIS:ND1	39:DD:232:PRO:N	2.65	0.45
40:DE:8:LYS:O	40:DE:193:GLY:N	2.49	0.45
41:DF:31:HIS:C	41:DF:33:LEU:N	2.72	0.45
42:DG:63:ILE:HA	42:DG:143:GLU:OE2	2.17	0.45
43:DH:49:VAL:C	43:DH:50:VAL:CG2	2.90	0.45
43:DH:136:ILE:N	43:DH:136:ILE:CD1	2.80	0.45
47:DO:2:ILE:CG2	47:DO:3:GLN:N	2.80	0.45
48:DP:32:THR:O	48:DP:33:ARG:C	2.60	0.45
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.42	0.45
52:DT:25:GLY:O	52:DT:48:ILE:HG22	2.17	0.45
53:DU:99:ALA:HB2	53:DU:106:PHE:CZ	2.52	0.45
54:DV:35:LEU:O	54:DV:37:VAL:N	2.50	0.45
57:DY:63:LYS:HG2	57:DY:64:GLU:H	1.81	0.45
1:AA:126:G:C6	1:AA:127:G:C5	3.05	0.45
1:AA:456:C:H2'	1:AA:457:C:C6	2.52	0.45
1:AA:739:C:C4	1:AA:740:U:C5	3.05	0.45
1:AA:791:G:O6	1:AA:792:A:N6	2.47	0.45
1:AA:865:A:C6	1:AA:866:C:N3	2.85	0.45
1:AA:952:U:H2'	1:AA:953:G:H8	1.81	0.45
1:AA:965:A:H1'	1:AA:969:A:C8	2.51	0.45
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.52	0.45
1:AA:1096:C:N4	1:AA:1097:C:N4	2.64	0.45
1:AA:1208:C:O2'	1:AA:1209:C:H5'	2.16	0.45
1:AA:1339:A:H2	22:AV:31:A:O4'	2.00	0.45
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.51	0.45
2:AB:162:ILE:O	2:AB:185:ILE:HG12	2.17	0.45
2:AB:168:THR:HG23	2:AB:192:SER:CA	2.46	0.45
3:AC:105:GLU:CG	3:AC:106:VAL:H	2.28	0.45
4:AD:13:ARG:NH1	4:AD:38:TYR:O	2.49	0.45
5:AE:103:GLY:H	5:AE:106:PRO:CG	2.29	0.45
7:AG:69:VAL:O	7:AG:71:PRO:HD3	2.17	0.45
8:AH:25:ASP:C	8:AH:26:VAL:HG12	2.42	0.45
9:AI:80:GLY:O	9:AI:84:ALA:CB	2.65	0.45
10:AJ:46:ARG:O	10:AJ:47:PHE:CD1	2.70	0.45
10:AJ:89:ASP:O	10:AJ:90:LEU:CB	2.61	0.45
11:AK:90:GLY:O	11:AK:94:ALA:N	2.35	0.45
12:AL:62:SER:C	12:AL:64:TYR:N	2.73	0.45
12:AL:70:ILE:HD13	12:AL:77:LEU:HD12	1.98	0.45
12:AL:117:ARG:O	12:AL:118:SER:C	2.59	0.45
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:15:VAL:O	13:AM:16:ASP:C	2.59	0.45
16:AP:58:TYR:C	16:AP:58:TYR:HD1	2.24	0.45
17:AQ:52:LYS:O	17:AQ:55:ASP:OD1	2.35	0.45
20:AT:58:LYS:O	20:AT:61:SER:HB3	2.16	0.45
25:AZ:179:LEU:HG	25:AZ:179:LEU:O	2.17	0.45
27:B1:4:VAL:HG23	27:B1:11:ARG:CG	2.32	0.45
28:B2:14:ARG:O	28:B2:67:LYS:CE	2.64	0.45
28:B2:53:LEU:O	28:B2:54:LYS:C	2.59	0.45
34:B8:10:ALA:O	34:B8:13:ARG:N	2.50	0.45
36:BA:141:A:N6	36:BA:142:A:N6	2.65	0.45
36:BA:158:U:H2'	36:BA:171:G:O4'	2.16	0.45
36:BA:211:A:H2'	36:BA:212:G:C8	2.51	0.45
36:BA:271(Q):G:H1'	36:BA:271(R):G:C8	2.52	0.45
36:BA:533:G:H5'	53:BU:24:TYR:CE2	2.52	0.45
36:BA:568:U:O2'	36:BA:569:U:C5	2.68	0.45
36:BA:680:G:H2'	36:BA:681:G:H8	1.80	0.45
36:BA:853:G:H2'	36:BA:854:G:O4'	2.16	0.45
36:BA:1301:A:HO2'	36:BA:1302:A:H2'	1.80	0.45
36:BA:1504:C:O2'	36:BA:1505:C:H5'	2.17	0.45
36:BA:1519:G:H5'	36:BA:1520:G:P	2.57	0.45
36:BA:1528:A:O2'	36:BA:1528(A):A:P	2.75	0.45
36:BA:2123:G:H1'	38:BC:172:HIS:CB	2.47	0.45
36:BA:2203:U:O2	36:BA:2203:U:H2'	2.17	0.45
36:BA:2306:C:H5''	36:BA:2307:G:O4'	2.17	0.45
36:BA:2460:U:H2'	36:BA:2461:C:H6	1.82	0.45
36:BA:2464:C:O2'	36:BA:2465:C:O5'	2.35	0.45
39:BD:187:GLY:C	39:BD:189:CYS:H	2.25	0.45
39:BD:231:HIS:CD2	39:BD:249:PRO:HB3	2.52	0.45
40:BE:93:VAL:HG12	40:BE:175:VAL:HG21	1.99	0.45
41:BF:21:ALA:C	41:BF:23:ASP:H	2.24	0.45
43:BH:136:ILE:H	43:BH:136:ILE:CD1	2.30	0.45
46:BN:96:GLU:N	46:BN:96:GLU:CD	2.75	0.45
48:BP:23:PRO:HD2	48:BP:33:ARG:CZ	2.46	0.45
48:BP:78:PRO:HB3	48:BP:111:ARG:NH2	2.31	0.45
49:BQ:43:THR:O	49:BQ:44:ALA:C	2.60	0.45
49:BQ:54:MET:O	49:BQ:55:VAL:C	2.60	0.45
50:BR:13:HIS:CE1	50:BR:16:HIS:HB3	2.52	0.45
50:BR:63:ARG:HG3	50:BR:63:ARG:HH11	1.81	0.45
50:BR:77:ARG:C	50:BR:79:LEU:N	2.73	0.45
52:BT:92:GLY:HA3	52:BT:120:ARG:HH21	1.82	0.45
54:BV:35:LEU:C	54:BV:37:VAL:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:38:LEU:HD11	54:BV:57:VAL:HB	1.98	0.45
55:BW:50:VAL:O	55:BW:50:VAL:HG22	2.16	0.45
1:CA:69:G:O2'	1:CA:70:G:H5'	2.15	0.45
1:CA:138:G:H2'	1:CA:139:G:C8	2.52	0.45
1:CA:456:C:H2'	1:CA:457:C:C6	2.52	0.45
1:CA:723:U:O2	1:CA:723:U:C2'	2.64	0.45
1:CA:779:C:H2'	1:CA:780:A:O4'	2.16	0.45
1:CA:786:G:C2	1:CA:787:A:H1'	2.51	0.45
1:CA:1151:A:H5'	10:CJ:40:LEU:O	2.16	0.45
1:CA:1228:C:H6	1:CA:1228:C:H3'	1.82	0.45
1:CA:1504:G:N2	1:CA:1505:G:O6	2.49	0.45
2:CB:29:ALA:HA	2:CB:32:ILE:HG22	1.99	0.45
6:CF:48:LEU:HD12	6:CF:57:GLN:N	2.31	0.45
9:CI:55:ALA:C	9:CI:57:GLY:N	2.75	0.45
9:CI:126:SER:C	9:CI:128:ARG:H	2.24	0.45
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB2	1.98	0.45
12:CL:45:PRO:HG3	12:CL:53:ARG:CD	2.44	0.45
12:CL:80:HIS:CD2	24:CY:68:U:H4'	2.52	0.45
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.47	0.45
13:CM:34:LEU:HD11	13:CM:41:PRO:HG3	1.99	0.45
13:CM:66:LEU:O	13:CM:67:GLU:C	2.59	0.45
14:CN:29:ARG:CG	14:CN:29:ARG:NH1	2.78	0.45
15:CO:54:ARG:HD3	15:CO:54:ARG:O	2.16	0.45
17:CQ:6:LEU:O	17:CQ:7:THR:HG23	2.17	0.45
18:CR:31:LEU:CD2	18:CR:65:ILE:HD12	2.47	0.45
18:CR:68:LYS:O	18:CR:72:ARG:HG3	2.16	0.45
25:CZ:230:THR:HA	25:CZ:235:GLY:O	2.17	0.45
25:CZ:317:GLU:O	25:CZ:318:ALA:HB2	2.16	0.45
26:D0:43:THR:CG2	36:DA:2332:U:H5'	2.47	0.45
29:D3:9:VAL:HG12	29:D3:32:GLN:CD	2.42	0.45
36:DA:83:G:N2	36:DA:102:G:C2'	2.80	0.45
36:DA:90:U:O2	36:DA:90:U:C2'	2.65	0.45
36:DA:102:G:H4'	36:DA:102:G:OP1	2.17	0.45
36:DA:116:C:H2'	36:DA:117:G:H8	1.75	0.45
36:DA:336:C:H4'	57:DY:7:VAL:HG21	1.98	0.45
36:DA:437:G:O2'	36:DA:438:G:H5'	2.16	0.45
36:DA:579:G:H4'	36:DA:2017:U:H2'	1.99	0.45
36:DA:693:C:C4	36:DA:694:U:C4	3.05	0.45
36:DA:862:G:N3	36:DA:863:A:C1'	2.74	0.45
36:DA:954:G:H5''	49:DQ:13:GLN:CG	2.46	0.45
36:DA:1023:U:H1'	36:DA:1122:G:H5''	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1119:C:H2'	36:DA:1120:G:C8	2.51	0.45
36:DA:1188:U:H5''	54:DV:79:VAL:CG1	2.47	0.45
36:DA:1222:C:H2'	36:DA:1223:G:C5'	2.35	0.45
36:DA:1243:G:C3'	36:DA:1244:G:H5''	2.46	0.45
36:DA:1309:G:O2'	36:DA:1310:G:H5'	2.17	0.45
36:DA:1376:C:H2'	36:DA:1377:G:H5'	1.98	0.45
36:DA:1494:A:N3	36:DA:1494:A:H5'	2.32	0.45
36:DA:1645:G:OP1	36:DA:1646:C:H5'	2.17	0.45
36:DA:1675:C:C2'	36:DA:1676:A:H5'	2.47	0.45
36:DA:1720:U:C2'	36:DA:1721:G:H5''	2.47	0.45
36:DA:1827:C:H5''	36:DA:1971:A:O3'	2.17	0.45
36:DA:1856:G:H2'	36:DA:1857:G:C5'	2.47	0.45
36:DA:1924:C:H2'	36:DA:1925:C:C6	2.49	0.45
36:DA:2101:G:C2'	36:DA:2102:U:H5''	2.43	0.45
36:DA:2164:C:H2'	36:DA:2165:G:H5'	1.99	0.45
37:DB:72:G:O2'	37:DB:105:A:N6	2.50	0.45
38:DC:107:TRP:C	38:DC:108:MET:HE3	2.42	0.45
39:DD:43:ARG:HH11	39:DD:44:ASN:CG	2.25	0.45
42:DG:18:GLU:CD	42:DG:21:ARG:NH2	2.75	0.45
42:DG:34:LEU:HD13	42:DG:99:MET:CE	2.46	0.45
42:DG:47:LYS:CG	42:DG:81:LYS:HE2	2.47	0.45
42:DG:59:GLU:OE1	42:DG:153:ARG:NH2	2.40	0.45
46:DN:4:TYR:OH	53:DU:61:TRP:NE1	2.49	0.45
49:DQ:43:THR:O	49:DQ:44:ALA:C	2.58	0.45
50:DR:67:LEU:O	50:DR:70:LEU:O	2.35	0.45
51:DS:104:GLY:O	51:DS:106:ARG:N	2.50	0.45
52:DT:89:VAL:HB	52:DT:91:ARG:HE	1.81	0.45
52:DT:121:ILE:C	52:DT:123:GLN:N	2.71	0.45
52:DT:133:GLU:O	52:DT:133:GLU:HG2	2.16	0.45
53:DU:10:ARG:CA	53:DU:13:LYS:HG2	2.45	0.45
55:DW:50:VAL:O	55:DW:50:VAL:HG22	2.17	0.45
56:DX:24:GLY:O	56:DX:82:GLN:NE2	2.50	0.45
56:DX:31:HIS:ND1	56:DX:32:PRO:HD2	2.31	0.45
1:AA:53:A:N1	1:AA:359:U:O2	2.50	0.45
1:AA:78:G:H1	1:AA:91:C:N4	2.15	0.45
1:AA:189(H):G:O2'	1:AA:189(I):G:O5'	2.34	0.45
1:AA:277:C:O2'	1:AA:278:G:H5'	2.17	0.45
1:AA:302:G:H2'	1:AA:303:A:H8	1.82	0.45
1:AA:304:U:O2'	1:AA:305:G:H5'	2.17	0.45
1:AA:376:G:O3'	16:AP:5:ARG:HD3	2.16	0.45
1:AA:443:C:O2'	1:AA:444:C:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:688:G:O3'	11:AK:46:GLY:HA3	2.17	0.45
1:AA:795:C:C1'	1:AA:1506:U:C5	3.00	0.45
1:AA:968:A:HO2'	1:AA:969:A:P	2.37	0.45
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.81	0.45
1:AA:1142:G:H2'	1:AA:1143:G:C5'	2.40	0.45
1:AA:1162:C:C2	1:AA:1175:G:C2	3.05	0.45
1:AA:1206:G:C4	1:AA:1207:G:C8	3.05	0.45
1:AA:1305:G:OP2	1:AA:1305:G:H8	2.00	0.45
1:AA:1387:G:C6	1:AA:1388:C:C4	3.05	0.45
1:AA:1423:G:C2	1:AA:1478:C:C2	3.05	0.45
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.52	0.45
1:AA:1463:C:H5''	52:BT:115:ARG:HH21	1.82	0.45
1:AA:1494:G:N2	1:AA:1495:U:C2	2.85	0.45
3:AC:138:VAL:CG1	3:AC:139:GLN:N	2.80	0.45
4:AD:100:ARG:O	4:AD:101:LEU:C	2.57	0.45
5:AE:64:ARG:O	5:AE:66:MET:HE2	2.17	0.45
11:AK:14:VAL:C	11:AK:16:SER:N	2.75	0.45
12:AL:33:ARG:O	12:AL:85:ILE:HB	2.17	0.45
13:AM:80:ARG:C	13:AM:82:MET:H	2.25	0.45
14:AN:48:ALA:N	14:AN:53:LEU:CD1	2.79	0.45
18:AR:31:LEU:CD2	18:AR:65:ILE:HD12	2.46	0.45
20:AT:17:ARG:C	20:AT:19:SER:N	2.66	0.45
20:AT:56:MET:SD	20:AT:85:MET:HB3	2.57	0.45
22:AV:34:G:C2'	22:AV:35:A:H5'	2.47	0.45
24:AY:60:U:C5'	24:AY:61:C:H5	2.29	0.45
25:AZ:171:ILE:HD12	25:AZ:171:ILE:N	2.32	0.45
25:AZ:222:LEU:HA	25:AZ:304:LEU:O	2.17	0.45
26:B0:84:LEU:HD12	26:B0:84:LEU:H	1.81	0.45
32:B6:12:GLU:HA	32:B6:23:THR:HA	1.99	0.45
36:BA:52:A:N1	36:BA:178:G:O2'	2.48	0.45
36:BA:58:G:H2'	36:BA:59:U:H6	1.81	0.45
36:BA:150:C:O5'	36:BA:150:C:H6	2.00	0.45
36:BA:173:G:H2'	36:BA:173:G:N3	2.32	0.45
36:BA:272(E):G:H22	36:BA:364:C:H1'	1.81	0.45
36:BA:654(L):G:H2'	36:BA:654(M):C:C4'	2.46	0.45
36:BA:723:G:H2'	36:BA:724:U:H6	1.75	0.45
36:BA:880:G:H2'	36:BA:881:G:C8	2.52	0.45
36:BA:926:A:C5'	36:BA:926:A:H8	2.22	0.45
36:BA:1005:C:O5'	36:BA:1005:C:H6	1.99	0.45
36:BA:1747(A):G:H2'	36:BA:1748:G:C4'	2.46	0.45
36:BA:1822:G:C4	36:BA:1823:G:N7	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1884:A:H3'	36:BA:1885:A:H5''	1.99	0.45
36:BA:2026:C:O2	36:BA:2026:C:H2'	2.16	0.45
36:BA:2071:A:C2	36:BA:2441:C:N3	2.85	0.45
36:BA:2466:C:C2'	36:BA:2467:C:H5'	2.46	0.45
36:BA:2787:C:O2	36:BA:2787:C:C2'	2.64	0.45
36:BA:2810:A:O2'	40:BE:61:ARG:NE	2.50	0.45
36:BA:2826:A:H2'	36:BA:2827:C:H5'	1.98	0.45
37:BB:52:A:O2'	37:BB:53:A:C8	2.64	0.45
38:BC:200:LYS:O	38:BC:201:PRO:C	2.60	0.45
39:BD:117:VAL:HG21	39:BD:128:GLY:C	2.41	0.45
40:BE:188:VAL:O	40:BE:189:PRO:O	2.35	0.45
42:BG:135:LEU:C	42:BG:154:GLY:HA3	2.41	0.45
43:BH:135:GLY:HA3	43:BH:141:VAL:HG22	1.99	0.45
52:BT:100:TYR:CD2	52:BT:103:ARG:NH2	2.85	0.45
53:BU:83:LEU:H	53:BU:83:LEU:HD12	1.82	0.45
53:BU:111:GLU:C	53:BU:113:ALA:N	2.75	0.45
54:BV:7:THR:O	54:BV:7:THR:HG23	2.17	0.45
54:BV:15:GLU:O	54:BV:16:PRO:O	2.35	0.45
55:BW:82:LEU:HD12	55:BW:82:LEU:N	2.31	0.45
57:BY:9:LYS:HG2	57:BY:11:ASP:OD2	2.15	0.45
57:BY:16:ALA:O	57:BY:21:LYS:HG3	2.17	0.45
1:CA:120:A:H2'	1:CA:122:G:N7	2.31	0.45
1:CA:353:A:H2'	1:CA:354:G:OP2	2.17	0.45
1:CA:515:G:H2'	1:CA:516:U:O4'	2.17	0.45
1:CA:654:G:H2'	1:CA:655:A:C8	2.52	0.45
1:CA:928:G:H2'	1:CA:929:G:C5'	2.46	0.45
1:CA:975:A:H8	1:CA:975:A:H5'	1.82	0.45
1:CA:1320:C:H5'	1:CA:1320:C:C6	2.52	0.45
1:CA:1358:U:H5''	14:CN:33:VAL:O	2.16	0.45
1:CA:1408:A:H5'	36:DA:1912:A:N6	2.32	0.45
1:CA:1460:A:N6	1:CA:1461:G:C2	2.85	0.45
1:CA:1475:G:H4'	36:DA:1689:A:H4'	1.98	0.45
4:CD:21:LEU:HD11	4:CD:66:ARG:O	2.17	0.45
5:CE:118:ILE:CG1	5:CE:119:LEU:N	2.79	0.45
7:CG:16:LEU:HD12	9:CI:41:VAL:O	2.16	0.45
7:CG:106:GLN:O	7:CG:109:ASN:N	2.49	0.45
8:CH:64:LYS:HG2	8:CH:65:TYR:H	1.79	0.45
9:CI:20:ARG:O	9:CI:21:PRO:C	2.60	0.45
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.31	0.45
10:CJ:40:LEU:CD1	10:CJ:69:ASN:HB3	2.46	0.45
13:CM:66:LEU:C	13:CM:70:LEU:HB3	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:59:ALA:O	14:CN:60:SER:CB	2.63	0.45
15:CO:33:THR:HG23	15:CO:63:ARG:NH1	2.31	0.45
18:CR:60:ALA:O	18:CR:61:LYS:C	2.59	0.45
18:CR:63:GLN:O	18:CR:63:GLN:HG3	2.17	0.45
24:CY:75:C:C6	25:CZ:230:THR:O	2.70	0.45
25:CZ:32:THR:O	25:CZ:35:ALA:N	2.47	0.45
25:CZ:253:VAL:HG22	25:CZ:265:THR:O	2.16	0.45
28:D2:24:LEU:HD23	28:D2:24:LEU:O	2.17	0.45
30:D4:14:ILE:HD12	30:D4:14:ILE:H	1.82	0.45
31:D5:8:LYS:NZ	36:DA:2055:C:OP1	2.50	0.45
33:D7:10:ARG:O	33:D7:13:ALA:N	2.49	0.45
33:D7:19:ARG:HD3	36:DA:125:G:P	2.57	0.45
33:D7:20:ALA:O	33:D7:23:ARG:N	2.49	0.45
36:DA:284:U:O2'	36:DA:285:C:H5'	2.17	0.45
36:DA:420:C:H2'	36:DA:421:U:C6	2.52	0.45
36:DA:654(V):A:P	36:DA:655:A:H3'	2.57	0.45
36:DA:940:G:H3'	36:DA:941:A:H5''	1.98	0.45
36:DA:944:G:H5'	36:DA:945:A:C5'	2.46	0.45
36:DA:1169:G:H2'	36:DA:1170:G:O4'	2.17	0.45
36:DA:1336:A:H2'	36:DA:1337:G:C8	2.51	0.45
36:DA:1344:G:N2	36:DA:1404:C:H1'	2.31	0.45
36:DA:1579:A:H2'	36:DA:1580:A:C8	2.51	0.45
36:DA:1779:U:O2	36:DA:1783:A:N6	2.50	0.45
36:DA:1809:A:C6	36:DA:1810:A:C6	3.05	0.45
36:DA:1934:C:O2'	36:DA:1974:C:H5''	2.17	0.45
36:DA:2123:G:O6	36:DA:2175:C:N4	2.50	0.45
36:DA:2275:C:OP1	36:DA:2275:C:H2'	2.17	0.45
36:DA:2700:C:O2'	36:DA:2701:C:H5'	2.16	0.45
36:DA:2729:G:H2'	36:DA:2730:C:H6	1.82	0.45
36:DA:2732:G:C2'	36:DA:2733:A:H5'	2.47	0.45
36:DA:2849:U:H4'	36:DA:2868:A:C2	2.52	0.45
37:DB:112:U:H2'	37:DB:113:G:H8	1.79	0.45
38:DC:134:ARG:O	38:DC:136:LEU:HG	2.16	0.45
38:DC:189:ILE:HG22	38:DC:190:ARG:N	2.31	0.45
38:DC:203:GLY:O	38:DC:204:ALA:C	2.60	0.45
39:DD:184:LYS:N	39:DD:269:PHE:O	2.47	0.45
40:DE:195:LEU:CD1	40:DE:196:VAL:N	2.75	0.45
41:DF:185:ASP:HA	41:DF:188:ARG:CD	2.46	0.45
42:DG:2:PRO:O	42:DG:3:LEU:CB	2.65	0.45
42:DG:47:LYS:HB3	42:DG:81:LYS:HE2	1.99	0.45
43:DH:23:ARG:O	43:DH:24:VAL:CG2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:2:ILE:CD1	47:DO:6:THR:HG21	2.47	0.45
47:DO:114:ILE:O	47:DO:117:LEU:N	2.49	0.45
48:DP:66:GLY:O	48:DP:67:MET:HB2	2.17	0.45
50:DR:24:GLN:O	50:DR:26:LYS:N	2.50	0.45
51:DS:12:PHE:N	51:DS:12:PHE:HD2	2.14	0.45
51:DS:84:GLN:N	51:DS:105:ALA:HB3	2.32	0.45
51:DS:97:ARG:H	51:DS:97:ARG:HG3	1.55	0.45
52:DT:11:GLU:C	52:DT:13:ARG:N	2.75	0.45
54:DV:8:GLY:C	54:DV:10:LYS:N	2.74	0.45
54:DV:91:TYR:CD1	54:DV:92:THR:N	2.85	0.45
56:DX:20:GLY:O	56:DX:22:ALA:N	2.49	0.45
1:AA:42:G:C6	1:AA:43:C:C4	3.05	0.45
1:AA:312:C:H2'	1:AA:313:A:H8	1.82	0.45
1:AA:409:G:OP2	1:AA:409:G:H8	1.99	0.45
1:AA:522:C:C2	1:AA:523:A:C8	3.05	0.45
1:AA:544:G:C6	1:AA:545:C:N3	2.84	0.45
1:AA:602:A:H2'	1:AA:603:U:H6	1.82	0.45
1:AA:773:G:N1	1:AA:774:G:C5	2.85	0.45
1:AA:933:G:N2	1:AA:935:A:O4'	2.50	0.45
1:AA:934:C:H5	1:AA:1344:C:C4	2.35	0.45
1:AA:1093:A:N3	1:AA:1095:U:H5'	2.32	0.45
1:AA:1174:G:O2'	1:AA:1175:G:H5'	2.17	0.45
1:AA:1217:C:O2'	1:AA:1218:C:H5'	2.16	0.45
1:AA:1307:U:H3	1:AA:1330:U:H3	1.64	0.45
1:AA:1320:C:H41	19:AS:37:ARG:HB3	1.82	0.45
2:AB:100:GLY:C	2:AB:102:LEU:N	2.75	0.45
4:AD:43:HIS:O	4:AD:45:GLN:HG2	2.17	0.45
4:AD:100:ARG:HG3	4:AD:100:ARG:HH11	1.81	0.45
8:AH:67:PRO:O	8:AH:76:PRO:HB3	2.17	0.45
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.47	0.45
10:AJ:55:LYS:C	10:AJ:56:HIS:CG	2.95	0.45
11:AK:62:GLN:O	11:AK:63:LEU:C	2.60	0.45
12:AL:84:LEU:CD2	12:AL:85:ILE:N	2.78	0.45
13:AM:29:ARG:HB3	13:AM:64:TRP:CZ2	2.52	0.45
13:AM:98:VAL:O	13:AM:98:VAL:HG12	2.17	0.45
13:AM:108:ARG:HD2	13:AM:108:ARG:H	1.76	0.45
13:AM:116:THR:C	13:AM:117:VAL:HG23	2.41	0.45
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.17	0.45
19:AS:51:VAL:CG1	19:AS:52:TYR:N	2.79	0.45
22:AV:2:C:H2'	22:AV:3:C:C6	2.51	0.45
25:AZ:146:LEU:H	25:AZ:149:LEU:HD23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AZ:259:ALA:O	25:AZ:260:PRO:O	2.34	0.45
25:AZ:316:PHE:CD2	25:AZ:400:VAL:HG13	2.52	0.45
25:AZ:317:GLU:O	25:AZ:318:ALA:HB2	2.16	0.45
25:AZ:390:GLU:HB3	25:AZ:395:VAL:HG11	1.98	0.45
34:B8:57:ARG:C	34:B8:59:LYS:N	2.71	0.45
36:BA:139(A):G:H3'	36:BA:140:G:H8	1.82	0.45
36:BA:296:C:C2'	36:BA:297:C:H5'	2.47	0.45
36:BA:309:G:O3'	57:BY:18:GLY:HA3	2.17	0.45
36:BA:363(A):A:N3	36:BA:363(A):A:H2'	2.30	0.45
36:BA:373:U:H2'	36:BA:374:A:H8	1.81	0.45
36:BA:526:A:N6	36:BA:2626:C:H4'	2.32	0.45
36:BA:606:U:H2'	36:BA:607:U:H4'	1.98	0.45
36:BA:830:G:H1'	36:BA:2448:A:N1	2.31	0.45
36:BA:832:G:P	48:BP:40:SER:HB2	2.56	0.45
36:BA:919:G:H22	36:BA:2268:A:H3'	1.82	0.45
36:BA:1060:U:H6	36:BA:1060:U:OP1	2.00	0.45
36:BA:1336:A:O2'	36:BA:1337:G:H5'	2.17	0.45
36:BA:1466:G:C3'	36:BA:1547:C:H41	2.29	0.45
36:BA:1654:A:OP2	50:BR:3:HIS:CD2	2.69	0.45
36:BA:1720:U:H3'	36:BA:1721:G:H5''	1.98	0.45
36:BA:1761:C:C2'	36:BA:1762:A:H8	2.29	0.45
36:BA:1777:U:N3	36:BA:1778:U:C5	2.85	0.45
36:BA:1830:C:H6	36:BA:1830:C:O5'	2.00	0.45
36:BA:2199:A:H5'	36:BA:2200:C:OP2	2.17	0.45
36:BA:2334:G:H21	51:BS:18:ILE:HG21	1.81	0.45
36:BA:2413:G:C4	36:BA:2414:G:C8	3.05	0.45
36:BA:2455:G:N1	36:BA:2498:C:N4	2.66	0.45
36:BA:2638:G:OP1	40:BE:82:ARG:NH2	2.50	0.45
36:BA:2814:C:C6	36:BA:2815:C:H5	2.35	0.45
37:BB:43:C:H2'	37:BB:44:G:H5''	1.99	0.45
38:BC:10:LEU:HD12	38:BC:32:LEU:CD2	2.39	0.45
38:BC:148:ASN:O	38:BC:151:GLU:N	2.50	0.45
38:BC:188:ASN:O	38:BC:189:ILE:C	2.57	0.45
39:BD:43:ARG:NH1	39:BD:49:ILE:CG2	2.80	0.45
40:BE:165:VAL:CG1	40:BE:166:THR:N	2.80	0.45
42:BG:88:ILE:CG2	42:BG:89:GLY:N	2.80	0.45
43:BH:83:TYR:CB	43:BH:135:GLY:H	2.15	0.45
43:BH:108:GLY:O	43:BH:109:PHE:C	2.60	0.45
48:BP:71:VAL:O	48:BP:72:PRO:C	2.59	0.45
49:BQ:51:ARG:HG3	49:BQ:51:ARG:NH1	2.31	0.45
49:BQ:60:ARG:C	58:BZ:177:PRO:HB2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:125:LEU:HB3	49:BQ:126:PRO:HD2	1.97	0.45
50:BR:97:VAL:O	50:BR:98:LEU:HD23	2.17	0.45
53:BU:18:LEU:HD11	53:BU:30:LYS:O	2.17	0.45
55:BW:87:PRO:O	55:BW:88:ARG:HD2	2.17	0.45
57:BY:49:VAL:O	57:BY:50:ARG:HB2	2.16	0.45
58:BZ:107:THR:HG22	58:BZ:111:VAL:HG21	1.99	0.45
58:BZ:151:HIS:O	58:BZ:152:ALA:O	2.34	0.45
1:CA:80:G:C3'	1:CA:81:U:C5'	2.93	0.45
1:CA:119:A:H5''	1:CA:120:A:H5'	1.97	0.45
1:CA:449:C:H3'	1:CA:450:G:C8	2.49	0.45
1:CA:619:U:N3	4:CD:135:LEU:HD21	2.31	0.45
1:CA:722:A:N3	1:CA:722:A:H2'	2.32	0.45
1:CA:926:G:C5	1:CA:1505:G:C5	3.05	0.45
1:CA:964:A:H5''	1:CA:965:A:OP2	2.17	0.45
1:CA:992:U:O2'	1:CA:993:G:OP2	2.31	0.45
1:CA:1379:G:C4	1:CA:1380:U:C5	3.05	0.45
1:CA:1507:A:H4'	1:CA:1507:A:OP2	2.17	0.45
3:CC:86:VAL:O	3:CC:87:LEU:C	2.60	0.45
4:CD:10:ARG:NH1	4:CD:40:PRO:HG3	2.31	0.45
5:CE:51:VAL:CB	5:CE:52:PRO:HD3	2.44	0.45
7:CG:63:LYS:HZ3	7:CG:67:GLU:HB2	1.79	0.45
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.20	0.45
8:CH:82:HIS:O	8:CH:137:VAL:HG13	2.17	0.45
8:CH:129:VAL:HG23	8:CH:130:GLY:N	2.30	0.45
10:CJ:43:ARG:O	10:CJ:67:THR:HG22	2.17	0.45
10:CJ:55:LYS:C	10:CJ:56:HIS:CG	2.95	0.45
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.41	0.45
11:CK:114:VAL:HG23	11:CK:115:PRO:HD2	1.99	0.45
12:CL:79:GLU:O	12:CL:79:GLU:HG2	2.15	0.45
14:CN:8:GLU:C	14:CN:10:ALA:N	2.71	0.45
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.63	0.45
16:CP:77:ALA:O	16:CP:78:GLY:C	2.60	0.45
17:CQ:56:VAL:HG23	17:CQ:81:ARG:HG3	1.95	0.45
19:CS:26:GLY:O	19:CS:27:GLU:O	2.35	0.45
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.32	0.45
20:CT:89:ARG:C	20:CT:91:LEU:N	2.74	0.45
20:CT:100:ILE:C	20:CT:102:GLY:H	2.22	0.45
22:CV:52:G:H1	22:CV:62:C:H42	1.65	0.45
22:CW:35:A:N6	22:CW:36:A:N1	2.65	0.45
24:CY:30:C:O2	24:CY:30:C:C2'	2.59	0.45
25:CZ:19:HIS:HD2	25:CZ:115:GLN:N	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:191:GLY:HA3	25:CZ:197:ASP:CB	2.29	0.45
25:CZ:242:ILE:HD12	25:CZ:281:ILE:O	2.17	0.45
25:CZ:386:PHE:CD2	25:CZ:386:PHE:C	2.95	0.45
27:D1:94:LEU:HD12	27:D1:94:LEU:N	2.31	0.45
32:D6:15:GLU:CD	32:D6:20:ASN:HD22	2.25	0.45
33:D7:12:ARG:NH2	33:D7:44:PRO:HB3	2.27	0.45
34:D8:10:ALA:C	34:D8:14:VAL:HG12	2.41	0.45
34:D8:52:LYS:O	34:D8:56:GLU:OE1	2.35	0.45
36:DA:18:C:H2'	36:DA:19:C:C6	2.51	0.45
36:DA:209:C:C4'	36:DA:681:G:H4'	2.47	0.45
36:DA:240:G:C6	36:DA:241:A:N6	2.85	0.45
36:DA:467:G:H8	36:DA:467:G:OP2	1.99	0.45
36:DA:530:G:H1'	36:DA:532:A:N7	2.32	0.45
36:DA:597:U:C5'	48:DP:15:ARG:NH2	2.80	0.45
36:DA:621:A:C2'	36:DA:622:G:H5'	2.46	0.45
36:DA:760:G:O5'	36:DA:760:G:H8	2.00	0.45
36:DA:848:G:C4	36:DA:933:A:H1'	2.52	0.45
36:DA:1022:G:H22	36:DA:1142(A):A:H2	1.65	0.45
36:DA:1168:G:N1	36:DA:1182:A:C6	2.85	0.45
36:DA:1434:A:H61	36:DA:1558:A:N6	2.15	0.45
36:DA:1604:C:O2'	36:DA:1605:C:H5'	2.17	0.45
36:DA:1661:G:C6	36:DA:2000:G:N1	2.85	0.45
36:DA:1759:A:O2'	36:DA:1760:A:H5'	2.16	0.45
36:DA:1909:C:N4	36:DA:1921:G:H1	2.11	0.45
36:DA:2104:G:O6	36:DA:2185:C:N3	2.50	0.45
36:DA:2414:G:H21	48:DP:67:MET:CE	2.29	0.45
36:DA:2510:C:O2'	36:DA:2511:U:H5'	2.17	0.45
36:DA:2531:A:H61	36:DA:2662:A:H61	1.65	0.45
36:DA:2554:U:O2'	36:DA:2555:U:H5'	2.17	0.45
36:DA:2672:G:C3'	36:DA:2673:G:H5''	2.46	0.45
36:DA:2681:C:C5	36:DA:2727:G:N2	2.85	0.45
36:DA:2683:C:H42	36:DA:2727:G:N2	2.14	0.45
36:DA:2807:G:C3'	36:DA:2808:U:C5'	2.90	0.45
37:DB:73:A:H2'	37:DB:74:U:H5'	1.99	0.45
37:DB:74:U:H2'	37:DB:75:G:O4'	2.17	0.45
39:DD:17:THR:HG23	39:DD:205:VAL:HB	1.99	0.45
39:DD:131:LEU:CB	39:DD:132:PRO:CD	2.95	0.45
43:DH:19:VAL:O	43:DH:20:ALA:HB2	2.17	0.45
43:DH:50:VAL:HG12	43:DH:51:ARG:N	2.32	0.45
43:DH:76:VAL:C	43:DH:78:GLY:N	2.75	0.45
43:DH:137:ASP:CG	43:DH:138:LYS:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:62:VAL:O	46:DN:62:VAL:HG13	2.17	0.45
48:DP:107:LYS:O	48:DP:109:GLY:N	2.49	0.45
49:DQ:53:ALA:CB	49:DQ:124:LYS:HE3	2.47	0.45
50:DR:79:LEU:O	50:DR:79:LEU:HD22	2.17	0.45
51:DS:12:PHE:CE1	51:DS:91:PRO:HB3	2.52	0.45
51:DS:18:ILE:HG13	51:DS:18:ILE:H	1.47	0.45
52:DT:27:THR:HG23	52:DT:28:VAL:N	2.31	0.45
53:DU:65:ILE:HD11	53:DU:96:ALA:CB	2.47	0.45
54:DV:64:HIS:HA	54:DV:92:THR:HA	1.99	0.45
57:DY:87:LYS:O	57:DY:91:GLU:N	2.50	0.45
1:AA:161:A:O2'	1:AA:162:A:H5'	2.16	0.44
1:AA:322:C:C5	1:AA:323:U:C5	3.05	0.44
1:AA:397:A:H5'	1:AA:398:C:OP1	2.18	0.44
1:AA:406:G:H2'	1:AA:407:G:C8	2.50	0.44
1:AA:563:A:C6	1:AA:567:G:N3	2.85	0.44
1:AA:694:A:H2'	1:AA:695:A:O4'	2.16	0.44
1:AA:779:C:H2'	1:AA:780:A:O4'	2.17	0.44
1:AA:901:A:C6	1:AA:902:G:H1'	2.52	0.44
1:AA:935:A:C2	1:AA:936:C:N3	2.86	0.44
1:AA:992:U:O2'	1:AA:993:G:P	2.76	0.44
1:AA:1012:U:O2'	1:AA:1013:G:H5'	2.17	0.44
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.17	0.44
1:AA:1157:A:O2'	1:AA:1158:C:P	2.76	0.44
1:AA:1200:C:O2'	1:AA:1201:A:OP2	2.28	0.44
2:AB:31:TYR:HE1	2:AB:200:ILE:HG12	1.82	0.44
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.24	0.44
2:AB:220:ASP:O	2:AB:223:ILE:N	2.50	0.44
3:AC:34:LEU:O	3:AC:35:GLU:C	2.60	0.44
4:AD:135:LEU:O	4:AD:137:SER:N	2.50	0.44
7:AG:61:VAL:O	7:AG:63:LYS:N	2.50	0.44
7:AG:95:ARG:O	7:AG:98:SER:N	2.49	0.44
8:AH:91:ARG:HG2	8:AH:91:ARG:HH11	1.82	0.44
10:AJ:17:ASP:CB	10:AJ:70:ARG:NH2	2.80	0.44
10:AJ:18:ALA:C	10:AJ:20:ALA:N	2.74	0.44
10:AJ:53:PRO:C	14:AN:41:ARG:HH22	2.25	0.44
11:AK:15:ALA:HA	11:AK:77:MET:HA	1.99	0.44
12:AL:32:PHE:CB	12:AL:84:LEU:HD21	2.47	0.44
13:AM:90:LEU:O	13:AM:92:HIS:N	2.49	0.44
14:AN:18:VAL:O	14:AN:19:ARG:O	2.35	0.44
15:AO:64:ARG:O	15:AO:66:LEU:N	2.50	0.44
20:AT:36:LEU:CD1	20:AT:36:LEU:C	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:18:TYR:CD2	21:AU:22:ARG:NE	2.85	0.44
21:AU:20:LYS:C	21:AU:22:ARG:H	2.25	0.44
22:AV:32:U:H5'	22:AV:33:U:OP2	2.17	0.44
25:AZ:182:MET:HE3	25:AZ:196:VAL:HG22	1.99	0.44
25:AZ:219:LYS:HB3	25:AZ:220:PRO:HD2	2.00	0.44
25:AZ:326:GLU:N	25:AZ:326:GLU:CD	2.75	0.44
29:B3:8:LEU:HA	29:B3:54:VAL:HG22	2.00	0.44
36:BA:120:U:H1'	36:BA:149:A:C8	2.52	0.44
36:BA:244:A:H3'	36:BA:245:G:H5''	1.99	0.44
36:BA:441:U:O2'	36:BA:442:G:H5'	2.16	0.44
36:BA:532:A:H5''	53:BU:28:ARG:NH1	2.30	0.44
36:BA:532:A:C5'	53:BU:28:ARG:HH12	2.30	0.44
36:BA:685:A:O2'	36:BA:773:U:O4	2.26	0.44
36:BA:699:A:H2'	36:BA:700:G:O4'	2.17	0.44
36:BA:1494:A:O2'	36:BA:1495:A:H5''	2.13	0.44
36:BA:1668:A:C5	36:BA:1674:G:C5	3.05	0.44
36:BA:1720:U:C3'	36:BA:1721:G:H5''	2.47	0.44
36:BA:2041:U:H2'	36:BA:2042:A:H8	1.80	0.44
36:BA:2400:G:H2'	36:BA:2401:U:H5'	1.98	0.44
36:BA:2460:U:O2'	36:BA:2461:C:H5'	2.17	0.44
36:BA:2633:G:H5'	36:BA:2812:G:H5'	1.99	0.44
39:BD:30:GLU:HB2	39:BD:35:LYS:CE	2.43	0.44
39:BD:52:ARG:H	39:BD:52:ARG:HG3	1.36	0.44
40:BE:132:HIS:CD2	40:BE:135:HIS:CE1	3.05	0.44
42:BG:69:ALA:O	42:BG:90:LEU:CD1	2.65	0.44
45:BK:18:UNK:O	45:BK:19:UNK:C	2.65	0.44
48:BP:122:PRO:HB3	48:BP:141:ALA:CB	2.45	0.44
50:BR:52:ILE:O	50:BR:55:ALA:N	2.49	0.44
51:BS:66:ALA:CB	51:BS:99:LYS:HD3	2.47	0.44
55:BW:5:ALA:CB	55:BW:105:VAL:HB	2.46	0.44
55:BW:14:PRO:O	55:BW:15:ARG:C	2.59	0.44
55:BW:68:ARG:O	55:BW:110:LYS:N	2.50	0.44
56:BX:41:ASN:O	56:BX:45:THR:HG23	2.17	0.44
57:BY:8:LYS:HB2	57:BY:28:LYS:CE	2.47	0.44
1:CA:35:G:C5	1:CA:36:C:N4	2.85	0.44
1:CA:414:A:C2	1:CA:415:A:H1'	2.52	0.44
1:CA:452:A:C6	1:CA:453:A:C6	3.05	0.44
1:CA:704:A:O2'	1:CA:705:U:H5'	2.17	0.44
1:CA:1015:A:H4'	14:CN:15:LYS:NZ	2.33	0.44
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.35	0.44
1:CA:1240:U:H3'	1:CA:1241:G:C5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1339:A:C2	22:CV:31:A:H4'	2.52	0.44
1:CA:1460:A:N1	1:CA:1461:G:N3	2.65	0.44
2:CB:48:MET:O	2:CB:51:LEU:N	2.50	0.44
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.78	0.44
2:CB:168:THR:O	2:CB:169:LYS:C	2.58	0.44
3:CC:80:GLY:O	3:CC:82:GLU:OE2	2.34	0.44
3:CC:117:ALA:O	3:CC:118:GLN:C	2.60	0.44
3:CC:122:GLU:O	3:CC:124:ILE:N	2.50	0.44
5:CE:64:ARG:HA	5:CE:66:MET:HE2	1.98	0.44
6:CF:56:PRO:HG2	6:CF:57:GLN:NE2	2.14	0.44
6:CF:62:TRP:CD1	18:CR:35:ARG:NH1	2.85	0.44
8:CH:6:ILE:N	8:CH:6:ILE:CD1	2.80	0.44
10:CJ:44:VAL:CG1	10:CJ:46:ARG:HG2	2.36	0.44
12:CL:117:ARG:O	12:CL:118:SER:C	2.60	0.44
13:CM:63:THR:CG2	13:CM:64:TRP:N	2.77	0.44
18:CR:52:PRO:C	18:CR:54:ARG:N	2.72	0.44
19:CS:35:SER:O	19:CS:37:ARG:N	2.50	0.44
25:CZ:137:LYS:HA	62:CZ:501:GDP:O6	2.17	0.44
25:CZ:254:GLU:O	25:CZ:304:LEU:HA	2.18	0.44
29:D3:31:LEU:O	36:DA:1158:C:H4'	2.17	0.44
31:D5:4:HIS:CB	31:D5:5:PRO:CD	2.83	0.44
31:D5:4:HIS:C	36:DA:2056:G:H22	2.24	0.44
31:D5:33:CYS:SG	31:D5:49:CYS:SG	3.11	0.44
32:D6:6:ARG:C	32:D6:8:LYS:N	2.73	0.44
34:D8:50:LEU:CD1	34:D8:51:ALA:N	2.73	0.44
36:DA:65:C:O2'	36:DA:66:C:H5'	2.16	0.44
36:DA:153:C:H2'	36:DA:154:G:C8	2.52	0.44
36:DA:363:G:C6	36:DA:363(A):A:N7	2.85	0.44
36:DA:722:A:N3	36:DA:722:A:H2'	2.31	0.44
36:DA:1386:C:C6	36:DA:1386:C:C3'	3.01	0.44
36:DA:1446:C:N4	36:DA:1465:G:H1	2.14	0.44
36:DA:1605:C:H2'	36:DA:1606:G:C5'	2.46	0.44
36:DA:1747(A):G:H2'	36:DA:1748:G:C5'	2.46	0.44
36:DA:2450:A:C2	36:DA:2451:A:C4	3.05	0.44
36:DA:2830:G:H5'	40:DE:58:ARG:NH1	2.32	0.44
36:DA:2838:G:H2'	36:DA:2839:G:H8	1.82	0.44
37:DB:16:G:HO2'	37:DB:17:C:P	2.40	0.44
39:DD:24:ILE:HG12	39:DD:25:THR:N	2.32	0.44
39:DD:126:GLN:HG3	39:DD:129:ASN:HD21	1.80	0.44
39:DD:147:LEU:CD2	39:DD:183:ARG:HH12	2.30	0.44
47:DO:7:TYR:CE1	47:DO:20:MET:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:90:VAL:HG21	54:DV:47:VAL:HG23	1.98	0.44
53:DU:112:ARG:CZ	54:DV:46:VAL:HG11	2.45	0.44
54:DV:38:LEU:O	54:DV:51:VAL:CG1	2.65	0.44
56:DX:41:ASN:O	56:DX:45:THR:HG23	2.16	0.44
57:DY:50:ARG:O	57:DY:53:PRO:HD3	2.17	0.44
1:AA:406:G:C2	1:AA:407:G:C5	3.05	0.44
1:AA:546:G:OP1	4:AD:73:ARG:HB2	2.18	0.44
1:AA:782:A:H2'	1:AA:783:C:O4'	2.18	0.44
1:AA:894:G:H2'	1:AA:895:G:O4'	2.17	0.44
1:AA:954:G:H4'	13:AM:120:LYS:HD2	1.99	0.44
1:AA:1054:C:OP2	1:AA:1198:G:OP2	2.35	0.44
1:AA:1055:A:C8	1:AA:1206:G:N2	2.85	0.44
1:AA:1134:G:N2	1:AA:1142:G:C6	2.86	0.44
1:AA:1164:G:C2	1:AA:1165:C:C4	3.05	0.44
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.53	0.44
1:AA:1512:U:C2	1:AA:1513:A:N7	2.84	0.44
2:AB:8:LYS:HZ3	2:AB:217:ARG:HH12	1.65	0.44
2:AB:132:LYS:O	2:AB:136:VAL:HG23	2.17	0.44
3:AC:83:ARG:O	3:AC:85:ARG:N	2.50	0.44
3:AC:164:ARG:HE	3:AC:164:ARG:HB3	1.18	0.44
4:AD:75:PHE:CD2	4:AD:75:PHE:C	2.95	0.44
5:AE:64:ARG:C	5:AE:66:MET:HE2	2.43	0.44
7:AG:44:TYR:O	7:AG:47:CYS:N	2.50	0.44
7:AG:54:THR:HG22	7:AG:125:MET:HE3	1.98	0.44
8:AH:63:LEU:CD2	8:AH:63:LEU:N	2.77	0.44
8:AH:82:HIS:O	8:AH:137:VAL:HG13	2.16	0.44
8:AH:85:ARG:CZ	8:AH:87:SER:O	2.65	0.44
9:AI:4:TYR:HB2	9:AI:19:LEU:CB	2.31	0.44
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.16	0.44
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.64	0.44
20:AT:64:ASP:O	20:AT:67:ALA:N	2.51	0.44
22:AV:56:C:H1'	42:BG:76:SER:HB2	1.98	0.44
25:AZ:38:GLU:CG	25:AZ:189:ARG:HH12	2.17	0.44
29:B3:26:LEU:CB	29:B3:28:LEU:HD21	2.45	0.44
29:B3:56:VAL:CG1	29:B3:57:GLU:H	2.23	0.44
31:B5:40:LYS:NZ	31:B5:46:CYS:N	2.66	0.44
32:B6:36:LEU:C	32:B6:36:LEU:CD2	2.89	0.44
33:B7:10:ARG:O	33:B7:13:ALA:N	2.51	0.44
34:B8:17:THR:O	34:B8:20:GLY:N	2.45	0.44
36:BA:140:G:H1'	36:BA:141:A:C2	2.52	0.44
36:BA:226:G:H5''	36:BA:257:A:O2'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:280:C:H42	36:BA:360:G:H1	1.65	0.44
36:BA:363:G:C2	36:BA:363(A):A:N7	2.85	0.44
36:BA:601:C:O5'	36:BA:601:C:H6	2.00	0.44
36:BA:944:G:H5'	36:BA:945:A:C5'	2.46	0.44
36:BA:970:C:H2'	36:BA:971:C:C6	2.53	0.44
36:BA:1090:U:H2'	36:BA:1091:G:O4'	2.17	0.44
36:BA:1120:G:H2'	36:BA:1121:C:H6	1.76	0.44
36:BA:1188:U:H5''	54:BV:79:VAL:CG1	2.47	0.44
36:BA:1392:A:N6	36:BA:1393:A:N1	2.65	0.44
36:BA:1413:G:H2'	36:BA:1414:G:H8	1.82	0.44
36:BA:1789:A:H2'	36:BA:1790:C:H6	1.82	0.44
36:BA:1798:U:OP2	39:BD:274:ARG:NH2	2.37	0.44
36:BA:1834:U:O2	36:BA:1834:U:H2'	2.18	0.44
36:BA:2657:A:C2'	43:BH:160:LYS:HZ3	2.31	0.44
36:BA:2729:G:H2'	36:BA:2730:C:H6	1.82	0.44
36:BA:2732:G:H3'	36:BA:2733:A:C5'	2.46	0.44
36:BA:2853:C:H2'	36:BA:2854:G:H8	1.79	0.44
37:BB:73:A:H2'	37:BB:74:U:H5'	1.99	0.44
37:BB:105:A:H2'	37:BB:106:G:O4'	2.16	0.44
38:BC:1:PRO:C	38:BC:3:HIS:N	2.75	0.44
38:BC:10:LEU:HD12	38:BC:32:LEU:HA	1.99	0.44
38:BC:134:ARG:O	38:BC:136:LEU:HG	2.16	0.44
39:BD:101:GLU:HG2	39:BD:102:LYS:N	2.32	0.44
40:BE:68:ALA:O	40:BE:70:ALA:N	2.51	0.44
43:BH:49:VAL:C	43:BH:50:VAL:CG2	2.90	0.44
47:BO:106:LEU:O	47:BO:107:ARG:C	2.60	0.44
47:BO:107:ARG:NH1	52:BT:35:LYS:HB2	2.33	0.44
48:BP:23:PRO:HG2	48:BP:33:ARG:NE	2.32	0.44
48:BP:123:LEU:HD23	48:BP:123:LEU:H	1.81	0.44
49:BQ:27:VAL:H	49:BQ:137:TYR:HD1	1.65	0.44
49:BQ:70:PRO:C	49:BQ:94:VAL:O	2.61	0.44
50:BR:2:ARG:HD3	50:BR:5:LYS:NZ	2.31	0.44
53:BU:106:PHE:C	53:BU:108:GLU:N	2.75	0.44
54:BV:19:LYS:NZ	54:BV:21:ARG:O	2.50	0.44
55:BW:5:ALA:O	55:BW:6:ILE:HB	2.16	0.44
55:BW:17:VAL:O	55:BW:19:LEU:N	2.50	0.44
56:BX:12:VAL:HG12	56:BX:27:THR:CA	2.46	0.44
57:BY:59:GLY:O	57:BY:60:PHE:CD1	2.70	0.44
57:BY:87:LYS:O	57:BY:91:GLU:N	2.50	0.44
58:BZ:18:LEU:HD23	58:BZ:25:PRO:HB3	2.00	0.44
58:BZ:76:LEU:O	58:BZ:84:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:95:PRO:HA	58:BZ:128:VAL:O	2.17	0.44
58:BZ:115:GLY:HA2	58:BZ:174:VAL:HG13	1.98	0.44
1:CA:191:G:N3	20:CT:105:SER:HB3	2.32	0.44
1:CA:1106:G:C2	1:CA:1107:C:C6	3.05	0.44
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.16	0.44
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.42	0.44
3:CC:102:ASN:O	3:CC:103:VAL:HG23	2.17	0.44
4:CD:49:ARG:O	4:CD:50:ARG:C	2.60	0.44
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.17	0.44
8:CH:13:ILE:O	8:CH:16:ALA:N	2.51	0.44
10:CJ:38:ILE:O	10:CJ:40:LEU:HD22	2.17	0.44
10:CJ:90:LEU:H	10:CJ:91:PRO:CD	2.26	0.44
12:CL:33:ARG:HG2	12:CL:60:LEU:HD12	1.99	0.44
12:CL:89:ARG:CD	12:CL:91:LYS:HB2	2.47	0.44
12:CL:89:ARG:CD	12:CL:91:LYS:HE2	2.46	0.44
18:CR:44:LEU:HD12	18:CR:44:LEU:N	2.33	0.44
19:CS:60:VAL:HG22	19:CS:61:TYR:O	2.16	0.44
20:CT:57:ARG:HH11	20:CT:103:GLY:H	1.55	0.44
22:CV:53:G:O2'	22:CV:54:U:H5'	2.17	0.44
24:CY:30:C:H42	24:CY:40:G:H1	1.64	0.44
25:CZ:98:GLN:O	25:CZ:98:GLN:CG	2.63	0.44
25:CZ:248:LYS:HA	25:CZ:270:VAL:HG21	1.99	0.44
27:D1:27:GLU:HB3	27:D1:28:GLY:H	1.48	0.44
27:D1:50:ARG:NH1	36:DA:2200:C:H5''	2.31	0.44
32:D6:42:TRP:CD2	36:DA:2348:U:O2'	2.69	0.44
33:D7:36:GLN:O	33:D7:38:GLY:N	2.50	0.44
36:DA:271(Q):G:H1'	36:DA:271(R):G:C8	2.52	0.44
36:DA:448:U:H1'	41:DF:84:VAL:HG11	2.00	0.44
36:DA:572:A:C5'	54:DV:78:LYS:HZ2	2.31	0.44
36:DA:927:G:N3	36:DA:927:G:H2'	2.31	0.44
36:DA:1052:C:O2'	36:DA:1053:C:P	2.75	0.44
36:DA:1192:G:C5	48:DP:29:LYS:NZ	2.85	0.44
36:DA:1218:C:H2'	36:DA:1219:G:H5'	1.99	0.44
36:DA:1292:U:H2'	36:DA:1293:C:C5	2.52	0.44
36:DA:1328:G:N2	36:DA:1647:G:H1	2.16	0.44
36:DA:1370:C:C2	36:DA:1371:G:C8	3.05	0.44
36:DA:1771:C:C5	36:DA:1772:G:N7	2.86	0.44
36:DA:1856:G:H1	36:DA:1886:C:H42	1.64	0.44
36:DA:2023:G:H8	36:DA:2023:G:P	2.40	0.44
36:DA:2435:A:C2'	36:DA:2436:G:O5'	2.65	0.44
36:DA:2649:U:O2'	36:DA:2650:U:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2675:A:N3	36:DA:2675:A:H2'	2.32	0.44
36:DA:2786:U:C4	36:DA:2787:C:C5	3.05	0.44
36:DA:2851:A:C2'	36:DA:2852:G:H5'	2.47	0.44
37:DB:44:G:H3'	42:DG:96:ARG:NH2	2.32	0.44
37:DB:56:G:HO2'	37:DB:57:A:P	2.39	0.44
37:DB:56:G:O2'	37:DB:57:A:P	2.75	0.44
39:DD:83:GLU:O	39:DD:92:ILE:HD13	2.17	0.44
41:DF:182:ASN:ND2	41:DF:185:ASP:OD2	2.50	0.44
42:DG:107:LEU:HD23	42:DG:107:LEU:N	2.32	0.44
42:DG:161:THR:HG21	42:DG:172:LEU:CD1	2.47	0.44
46:DN:128:HIS:CD2	46:DN:130:HIS:CE1	3.05	0.44
48:DP:23:PRO:CG	48:DP:33:ARG:NE	2.80	0.44
48:DP:97:PRO:O	48:DP:99:LEU:N	2.42	0.44
50:DR:85:PRO:O	50:DR:86:ARG:C	2.59	0.44
53:DU:10:ARG:HA	53:DU:13:LYS:CG	2.46	0.44
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.99	0.44
53:DU:66:ASN:HA	53:DU:69:CYS:SG	2.57	0.44
53:DU:83:LEU:HD12	53:DU:83:LEU:N	2.31	0.44
54:DV:31:ALA:O	54:DV:61:VAL:HG13	2.17	0.44
55:DW:6:ILE:HG22	55:DW:7:ALA:H	1.80	0.44
55:DW:11:ARG:O	55:DW:11:ARG:NE	2.49	0.44
58:DZ:84:GLU:HB3	58:DZ:85:HIS:H	1.57	0.44
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG1	2.46	0.44
1:AA:59:A:C5'	1:AA:60:A:H5''	2.46	0.44
1:AA:148:G:H2'	1:AA:149:A:H8	1.82	0.44
1:AA:245:C:O2'	1:AA:246:A:P	2.75	0.44
1:AA:439:A:C8	1:AA:496:A:N1	2.86	0.44
1:AA:766:A:H2'	1:AA:767:A:O4'	2.17	0.44
1:AA:830:G:C6	1:AA:831:U:C4	3.06	0.44
1:AA:927:G:H8	1:AA:927:G:C5'	2.29	0.44
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.17	0.44
1:AA:977:A:H62	1:AA:1223:C:H2'	1.82	0.44
1:AA:1030:C:N4	1:AA:1032:G:N2	2.66	0.44
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.17	0.44
2:AB:57:PHE:CE2	2:AB:199:TYR:HE1	2.36	0.44
2:AB:71:VAL:O	2:AB:164:VAL:HA	2.17	0.44
3:AC:178:LEU:C	3:AC:180:ALA:N	2.74	0.44
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.29	0.44
7:AG:50:ILE:O	7:AG:54:THR:O	2.36	0.44
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.85	0.44
11:AK:30:VAL:HG23	11:AK:30:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:32:ILE:HG22	11:AK:33:THR:N	2.31	0.44
11:AK:57:THR:OG1	11:AK:58:PRO:CD	2.60	0.44
12:AL:5:PRO:O	12:AL:6:THR:C	2.61	0.44
13:AM:15:VAL:CG2	13:AM:16:ASP:N	2.81	0.44
15:AO:34:LEU:HD12	15:AO:34:LEU:C	2.42	0.44
16:AP:35:LYS:HE2	16:AP:37:GLY:N	2.33	0.44
16:AP:40:ASP:OD2	16:AP:40:ASP:C	2.61	0.44
19:AS:60:VAL:HG22	19:AS:61:TYR:O	2.17	0.44
20:AT:24:LEU:O	20:AT:27:LYS:N	2.50	0.44
26:B0:5:LYS:HB3	26:B0:5:LYS:HZ2	1.82	0.44
27:B1:4:VAL:CG2	27:B1:5:CYS:H	2.18	0.44
28:B2:4:SER:HA	28:B2:7:ARG:HG3	1.98	0.44
29:B3:12:PRO:O	29:B3:13:ILE:C	2.58	0.44
33:B7:24:THR:C	33:B7:28:ARG:NH2	2.75	0.44
34:B8:22:VAL:CB	34:B8:53:PRO:HB2	2.48	0.44
36:BA:27:G:N2	36:BA:512:G:C2'	2.68	0.44
36:BA:64:A:H2'	36:BA:65:C:C6	2.52	0.44
36:BA:74:A:C5'	36:BA:75:G:H1'	2.46	0.44
36:BA:531:C:OP1	36:BA:561:G:N1	2.50	0.44
36:BA:654(L):G:H2'	36:BA:654(M):C:H4'	1.98	0.44
36:BA:715:G:C6	36:BA:716:A:C6	3.06	0.44
36:BA:800:A:C5	36:BA:802:A:O4'	2.69	0.44
36:BA:1053:C:H42	36:BA:1108:U:H3	1.66	0.44
36:BA:1174:A:OP1	36:BA:1174:A:H3'	2.18	0.44
36:BA:1292:U:O2'	36:BA:1293:C:H5'	2.17	0.44
36:BA:1678:G:C8	36:BA:1678:G:O5'	2.70	0.44
36:BA:1697:G:H3'	36:BA:1698:A:H5''	1.99	0.44
36:BA:2037:G:H2'	36:BA:2038:G:H8	1.77	0.44
36:BA:2105:C:H2'	36:BA:2106:G:H8	1.82	0.44
36:BA:2128:C:O2'	36:BA:2129:C:C6	2.68	0.44
36:BA:2159:G:H2'	36:BA:2160:G:C5'	2.46	0.44
36:BA:2308:G:C2	36:BA:2309:A:C6	3.06	0.44
36:BA:2590:A:C2'	36:BA:2591:C:H5'	2.47	0.44
36:BA:2682:U:O2'	52:BT:58:ASN:OD1	2.36	0.44
37:BB:34:U:C4'	37:BB:35:U:H5	2.26	0.44
37:BB:49:C:OP1	51:BS:96:GLY:HA3	2.17	0.44
38:BC:6:ARG:HH11	38:BC:6:ARG:CG	2.25	0.44
38:BC:47:LEU:HD11	38:BC:171:ILE:CG2	2.46	0.44
39:BD:135:PHE:C	39:BD:136:ILE:HD12	2.42	0.44
40:BE:13:ARG:O	52:BT:57:PHE:CE1	2.69	0.44
42:BG:87:PRO:CG	42:BG:88:ILE:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:97:ASP:O	42:BG:101:ILE:N	2.51	0.44
48:BP:75:ILE:H	48:BP:75:ILE:CD1	2.27	0.44
52:BT:49:VAL:C	52:BT:50:ILE:HD12	2.42	0.44
52:BT:61:PHE:HD2	52:BT:61:PHE:N	2.14	0.44
53:BU:90:VAL:HG21	54:BV:47:VAL:HG23	1.99	0.44
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.99	0.44
54:BV:49:THR:CB	54:BV:50:PRO:HD2	2.43	0.44
55:BW:5:ALA:O	55:BW:6:ILE:CB	2.66	0.44
56:BX:8:ILE:O	56:BX:9:LEU:C	2.60	0.44
58:BZ:86:VAL:HG12	58:BZ:87:ASP:H	1.82	0.44
1:CA:34:C:C1'	12:CL:32:PHE:CE2	3.01	0.44
1:CA:194:C:O2'	20:CT:68:LYS:HD3	2.16	0.44
1:CA:277:C:OP1	17:CQ:41:LYS:HE2	2.17	0.44
1:CA:375:U:C4	1:CA:376:G:N7	2.84	0.44
1:CA:458:C:C4	1:CA:474:G:N2	2.85	0.44
1:CA:516:U:C4	1:CA:517:G:N1	2.85	0.44
1:CA:624:C:H2'	1:CA:625:G:C8	2.45	0.44
1:CA:694:A:H2'	1:CA:695:A:O4'	2.17	0.44
1:CA:716:A:H1'	11:CK:118:GLY:O	2.17	0.44
1:CA:766:A:H2'	1:CA:767:A:O4'	2.17	0.44
1:CA:778:G:C5	1:CA:779:C:C5	3.05	0.44
1:CA:788:U:H2'	1:CA:789:U:C6	2.53	0.44
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.51	0.44
1:CA:1104:G:H4'	2:CB:111:ARG:HH12	1.81	0.44
1:CA:1111:A:H2'	1:CA:1112:C:C6	2.52	0.44
1:CA:1151:A:H2'	1:CA:1152:A:C8	2.51	0.44
1:CA:1305:G:OP2	1:CA:1305:G:H8	2.00	0.44
1:CA:1413:A:H2	1:CA:1487:G:H22	1.63	0.44
1:CA:1452:C:OP2	1:CA:1456:G:C6	2.70	0.44
1:CA:1516:G:C6	1:CA:1520:G:C6	3.05	0.44
2:CB:162:ILE:HG12	2:CB:163:PHE:N	2.30	0.44
2:CB:167:PRO:O	2:CB:170:GLU:N	2.50	0.44
4:CD:170:VAL:CG1	4:CD:171:GLY:H	2.30	0.44
5:CE:32:VAL:O	5:CE:43:LEU:CD1	2.64	0.44
5:CE:52:PRO:O	5:CE:56:GLN:HB2	2.17	0.44
5:CE:139:LEU:HA	5:CE:142:LEU:HG	2.00	0.44
7:CG:58:PRO:O	7:CG:59:LEU:C	2.59	0.44
7:CG:94:ARG:O	7:CG:97:GLN:HB3	2.18	0.44
7:CG:95:ARG:O	7:CG:98:SER:N	2.50	0.44
7:CG:140:ASP:HA	7:CG:143:ARG:HB2	1.99	0.44
8:CH:40:ALA:N	8:CH:45:ILE:HG13	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:14:ARG:H	13:CM:44:ARG:NH1	2.14	0.44
19:CS:5:LEU:HD12	19:CS:8:GLY:C	2.42	0.44
20:CT:71:THR:HG22	20:CT:72:LEU:H	1.83	0.44
24:CY:50:G:C6	24:CY:51:C:N4	2.86	0.44
25:CZ:182:MET:HE1	25:CZ:188:THR:CB	2.48	0.44
26:D0:10:THR:HG22	26:D0:11:ARG:N	2.32	0.44
27:D1:50:ARG:HH12	36:DA:2200:C:H5''	1.81	0.44
28:D2:33:MET:HG3	28:D2:37:PHE:HE1	1.79	0.44
28:D2:46:GLN:HB3	28:D2:48:HIS:HE1	1.81	0.44
30:D4:31:ILE:HG22	30:D4:31:ILE:O	2.18	0.44
32:D6:8:LYS:HE3	32:D6:25:LYS:HD2	1.99	0.44
36:DA:88:G:N2	36:DA:89:G:H1'	2.32	0.44
36:DA:525:U:C2'	36:DA:526:A:H5'	2.47	0.44
36:DA:529:A:C5	36:DA:2042:A:C2	3.05	0.44
36:DA:695:G:N2	36:DA:696:G:H1'	2.32	0.44
36:DA:848:G:H2'	36:DA:849:A:C8	2.52	0.44
36:DA:1007:C:O2'	46:DN:108:PRO:HA	2.17	0.44
36:DA:1086:A:O4'	36:DA:1104:C:O2	2.35	0.44
36:DA:1209:G:O3'	36:DA:1212:G:H5'	2.17	0.44
36:DA:1400:G:H2'	36:DA:1401:G:C8	2.52	0.44
36:DA:1836:C:O5'	36:DA:1836:C:H6	2.00	0.44
36:DA:2050:C:H2'	36:DA:2051:A:O4'	2.18	0.44
36:DA:2131:G:H5''	36:DA:2132:U:O5'	2.17	0.44
36:DA:2150:U:H2'	36:DA:2151:G:H8	1.81	0.44
36:DA:2357:U:O2'	36:DA:2359:C:OP2	2.30	0.44
36:DA:2513:G:N1	36:DA:2514:U:C2	2.86	0.44
36:DA:2635:C:H5''	40:DE:78:LEU:HD12	1.98	0.44
37:DB:91:C:OP1	49:DQ:16:ARG:HG3	2.18	0.44
38:DC:10:LEU:HD12	38:DC:32:LEU:HA	1.99	0.44
39:DD:62:TYR:HE1	39:DD:64:ILE:HA	1.81	0.44
42:DG:113:ARG:C	42:DG:115:ARG:N	2.75	0.44
42:DG:133:LEU:HD12	42:DG:133:LEU:C	2.42	0.44
43:DH:68:THR:HG22	43:DH:72:ILE:CG1	2.46	0.44
43:DH:68:THR:C	43:DH:70:THR:H	2.24	0.44
46:DN:10:GLU:OE2	46:DN:11:PRO:HD2	2.18	0.44
48:DP:22:GLY:HA2	48:DP:23:PRO:HD3	1.80	0.44
48:DP:28:GLY:C	48:DP:29:LYS:HD2	2.43	0.44
48:DP:126:VAL:HG13	48:DP:145:PRO:CB	2.46	0.44
49:DQ:48:GLU:C	49:DQ:50:ALA:N	2.74	0.44
50:DR:44:LEU:HD13	50:DR:44:LEU:O	2.18	0.44
52:DT:16:ARG:NH2	52:DT:80:SER:O	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:62:THR:HG22	52:DT:75:ILE:CG2	2.42	0.44
53:DU:12:ARG:O	53:DU:16:LYS:HD2	2.17	0.44
53:DU:29:SER:O	53:DU:30:LYS:HD3	2.17	0.44
57:DY:28:LYS:O	57:DY:29:GLU:C	2.60	0.44
58:DZ:150:LEU:H	58:DZ:150:LEU:CD2	2.30	0.44
1:AA:105:G:C6	1:AA:106:C:N4	2.84	0.44
1:AA:331:G:H8	1:AA:331:G:O5'	2.00	0.44
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.44
1:AA:941:G:N2	1:AA:942:G:H1'	2.32	0.44
1:AA:1409:C:H4'	36:BA:1915:U:O4	2.17	0.44
2:AB:36:ARG:NE	2:AB:36:ARG:HA	2.32	0.44
2:AB:54:THR:O	2:AB:57:PHE:HB3	2.18	0.44
3:AC:72:LYS:C	3:AC:74:GLY:N	2.75	0.44
3:AC:77:ILE:HG23	3:AC:84:ILE:HG22	2.00	0.44
4:AD:121:VAL:O	4:AD:134:ASP:CA	2.65	0.44
5:AE:51:VAL:O	5:AE:52:PRO:C	2.61	0.44
6:AF:26:ILE:O	6:AF:27:GLN:C	2.61	0.44
7:AG:103:TRP:O	7:AG:104:LEU:C	2.60	0.44
8:AH:4:ASP:OD1	8:AH:4:ASP:C	2.58	0.44
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.82	0.44
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.17	0.44
17:AQ:6:LEU:O	17:AQ:7:THR:HG23	2.17	0.44
17:AQ:66:SER:C	17:AQ:67:LYS:O	2.56	0.44
18:AR:31:LEU:HG	18:AR:65:ILE:HD12	1.98	0.44
19:AS:13:ASP:C	19:AS:15:LEU:N	2.76	0.44
19:AS:41:VAL:O	19:AS:44:MET:HB2	2.18	0.44
20:AT:57:ARG:CZ	20:AT:57:ARG:CB	2.95	0.44
22:AV:11:C:H42	22:AV:24:G:H1	1.65	0.44
25:AZ:19:HIS:HD2	25:AZ:115:GLN:N	2.15	0.44
25:AZ:241:ARG:HB2	25:AZ:285:ASN:ND2	2.21	0.44
25:AZ:363:MET:O	25:AZ:366:ASP:HB2	2.17	0.44
28:B2:27:GLU:O	28:B2:30:ARG:CB	2.65	0.44
28:B2:47:ASN:O	28:B2:50:ILE:HD13	2.17	0.44
28:B2:49:LYS:HB3	28:B2:49:LYS:NZ	2.31	0.44
28:B2:53:LEU:CA	28:B2:56:GLN:HB2	2.46	0.44
31:B5:38:ALA:HB2	31:B5:48:GLU:HB3	1.94	0.44
32:B6:20:ASN:HD21	32:B6:42:TRP:H	1.66	0.44
34:B8:13:ARG:HB2	48:BP:62:LEU:O	2.17	0.44
36:BA:19:C:H5'	36:BA:554:U:OP1	2.18	0.44
36:BA:88:G:N2	36:BA:89:G:H1'	2.32	0.44
36:BA:206:U:H2'	36:BA:207:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:271(B):C:O2'	36:BA:271(C):C:H5'	2.17	0.44
36:BA:323:G:C8	41:BF:171:PRO:HG3	2.53	0.44
36:BA:412:A:H3'	36:BA:413:C:H6	1.82	0.44
36:BA:605:C:O2'	36:BA:606:U:H5'	2.18	0.44
36:BA:906:G:O2'	49:BQ:67:ARG:NH2	2.51	0.44
36:BA:1131:G:C2	46:BN:75:TYR:HB2	2.53	0.44
36:BA:1372:U:O2'	36:BA:1373:A:H5'	2.17	0.44
36:BA:1427:A:H1'	36:BA:1428:C:C5	2.52	0.44
36:BA:1520:G:H2'	36:BA:1523:U:C5'	2.47	0.44
36:BA:1645:G:OP1	36:BA:1646:C:H5'	2.18	0.44
36:BA:2048:G:H5'	36:BA:2823:A:N1	2.31	0.44
36:BA:2557:G:C2'	36:BA:2558:C:H5'	2.47	0.44
36:BA:2585:U:O2	36:BA:2585:U:O4'	2.35	0.44
36:BA:2600:A:OP2	39:BD:237:GLU:HG3	2.16	0.44
36:BA:2815:C:H2'	36:BA:2816:C:C6	2.52	0.44
39:BD:158:ALA:O	39:BD:161:THR:HG23	2.17	0.44
40:BE:199:ARG:CG	40:BE:200:GLU:N	2.75	0.44
41:BF:70:THR:C	41:BF:72:ARG:N	2.76	0.44
41:BF:157:VAL:O	41:BF:158:THR:HB	2.16	0.44
41:BF:194:MET:HB3	41:BF:195:ASP:H	1.51	0.44
42:BG:21:ARG:HH22	42:BG:22:ARG:HG2	1.78	0.44
43:BH:84:SER:O	43:BH:85:LYS:HB3	2.18	0.44
43:BH:152:ARG:HG3	43:BH:152:ARG:HH11	1.83	0.44
47:BO:71:ARG:NE	47:BO:105:GLU:OE1	2.50	0.44
47:BO:71:ARG:NH2	47:BO:77:ILE:HG21	2.32	0.44
49:BQ:42:ILE:O	49:BQ:42:ILE:CG2	2.66	0.44
49:BQ:77:LYS:HB3	49:BQ:81:VAL:HG11	1.98	0.44
49:BQ:111:GLU:CD	49:BQ:133:ARG:HH22	2.25	0.44
51:BS:12:PHE:CE1	51:BS:91:PRO:HB3	2.53	0.44
52:BT:16:ARG:NH2	52:BT:80:SER:O	2.47	0.44
53:BU:80:ILE:O	53:BU:80:ILE:HG22	2.18	0.44
53:BU:83:LEU:O	53:BU:88:ILE:HG12	2.17	0.44
53:BU:85:LYS:HD2	53:BU:117:GLN:HE22	1.81	0.44
56:BX:20:GLY:C	56:BX:22:ALA:N	2.76	0.44
57:BY:29:GLU:OE2	57:BY:38:ILE:HG21	2.18	0.44
58:BZ:4:ARG:HB3	58:BZ:58:VAL:O	2.17	0.44
1:CA:59:A:C5'	1:CA:60:A:H5''	2.48	0.44
1:CA:119:A:H5''	1:CA:120:A:C5'	2.48	0.44
1:CA:175:C:H4'	20:CT:25:ARG:CZ	2.46	0.44
1:CA:218:C:C5'	1:CA:470:C:H42	2.31	0.44
1:CA:520:A:OP2	12:CL:51:ALA:HB1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:665:A:N7	1:CA:725:G:N1	2.66	0.44
1:CA:754:C:H3'	1:CA:754:C:O2	2.17	0.44
1:CA:903:G:H2'	1:CA:904:C:C6	2.53	0.44
1:CA:1087:G:H22	1:CA:1099:G:H1'	1.78	0.44
1:CA:1338:G:C6	1:CA:1339:A:C6	3.05	0.44
1:CA:1372:U:H2'	1:CA:1373:G:O5'	2.18	0.44
1:CA:1505:G:C4'	1:CA:1506:U:H5'	2.47	0.44
2:CB:68:ILE:HG12	2:CB:161:ALA:HB3	1.99	0.44
3:CC:7:PRO:HG3	3:CC:184:TYR:CD1	2.52	0.44
3:CC:187:ALA:O	3:CC:188:LEU:CD2	2.62	0.44
4:CD:163:GLU:C	4:CD:165:MET:H	2.25	0.44
4:CD:200:GLU:O	4:CD:202:LEU:N	2.49	0.44
5:CE:30:ALA:O	5:CE:46:GLY:N	2.41	0.44
5:CE:31:LEU:CD2	5:CE:43:LEU:HD11	2.47	0.44
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.97	0.44
12:CL:23:LYS:C	12:CL:24:VAL:CG2	2.91	0.44
12:CL:125:PRO:O	12:CL:126:LYS:C	2.59	0.44
18:CR:24:ALA:C	18:CR:26:LEU:N	2.75	0.44
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.83	0.44
19:CS:46:GLY:H	19:CS:62:ILE:HG23	1.81	0.44
20:CT:13:LEU:O	20:CT:16:HIS:N	2.40	0.44
20:CT:45:GLN:NE2	20:CT:46:GLU:HB2	2.32	0.44
24:CY:12:U:H3	24:CY:23:A:H2	1.66	0.44
25:CZ:27:LEU:HD11	25:CZ:31:LEU:HD21	1.98	0.44
25:CZ:35:ALA:O	25:CZ:39:ASN:HB2	2.17	0.44
25:CZ:222:LEU:CD2	25:CZ:244:ARG:HH21	2.31	0.44
27:D1:89:GLU:O	27:D1:90:ILE:C	2.60	0.44
28:D2:34:GLU:O	28:D2:35:LEU:C	2.60	0.44
29:D3:18:ASP:HB2	36:DA:850:C:C5'	2.47	0.44
36:DA:481:G:H2'	36:DA:482:A:OP2	2.18	0.44
36:DA:661:C:H2'	36:DA:662:G:H8	1.80	0.44
36:DA:662:G:H4'	48:DP:19:VAL:O	2.17	0.44
36:DA:800:A:C5	36:DA:802:A:O4'	2.71	0.44
36:DA:956:G:OP1	49:DQ:87:LYS:HG3	2.18	0.44
36:DA:1251:C:P	53:DU:10:ARG:HE	2.40	0.44
36:DA:1415:U:H3	36:DA:1587:A:H61	1.65	0.44
36:DA:1468:C:H2'	36:DA:1469:A:C8	2.52	0.44
36:DA:1761:C:C2'	36:DA:1762:A:H8	2.31	0.44
36:DA:1788:C:H2'	36:DA:1789:A:O4'	2.17	0.44
36:DA:1993:U:C5'	40:DE:128:SER:HB3	2.47	0.44
36:DA:2055:C:H2'	36:DA:2504:U:C4'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2228:G:H2'	36:DA:2229:C:C6	2.53	0.44
36:DA:2247:A:H2'	36:DA:2248:C:C6	2.53	0.44
36:DA:2307:G:H21	36:DA:2308:G:H5'	1.82	0.44
36:DA:2333:A:C1'	36:DA:2335:A:C5	3.00	0.44
37:DB:104:U:H2'	37:DB:105:A:H8	1.81	0.44
37:DB:106:G:C5'	58:DZ:31:ARG:HB3	2.48	0.44
38:DC:62:VAL:O	38:DC:160:ARG:HA	2.18	0.44
39:DD:30:GLU:OE1	39:DD:63:ARG:HD3	2.17	0.44
39:DD:112:GLN:O	39:DD:115:GLN:HB2	2.17	0.44
39:DD:264:LYS:O	39:DD:267:SER:OG	2.35	0.44
40:DE:9:VAL:O	40:DE:9:VAL:CG2	2.65	0.44
40:DE:128:SER:OG	40:DE:129:HIS:N	2.45	0.44
41:DF:21:ALA:C	41:DF:23:ASP:H	2.26	0.44
42:DG:77:ILE:C	42:DG:79:ASN:H	2.23	0.44
43:DH:121:ILE:HG23	43:DH:133:VAL:CG1	2.48	0.44
43:DH:163:TYR:O	43:DH:164:TYR:O	2.35	0.44
46:DN:12:ARG:HG2	46:DN:50:ASP:OD2	2.16	0.44
46:DN:38:HIS:O	53:DU:67:ALA:HB1	2.17	0.44
47:DO:71:ARG:NE	47:DO:105:GLU:OE1	2.50	0.44
48:DP:39:LYS:HE2	48:DP:42:SER:CB	2.34	0.44
50:DR:20:LEU:O	50:DR:24:GLN:HG3	2.18	0.44
50:DR:79:LEU:HD13	50:DR:80:PHE:N	2.32	0.44
50:DR:103:ARG:HH11	50:DR:110:PRO:CD	2.25	0.44
52:DT:32:TYR:CG	52:DT:33:LYS:N	2.85	0.44
53:DU:83:LEU:O	53:DU:88:ILE:HG12	2.17	0.44
53:DU:96:ALA:C	53:DU:98:LEU:N	2.73	0.44
54:DV:95:LEU:HD23	54:DV:96:ILE:N	2.32	0.44
55:DW:80:PRO:O	55:DW:100:THR:CG2	2.66	0.44
57:DY:37:VAL:CG2	57:DY:38:ILE:N	2.66	0.44
1:AA:141:A:H2'	1:AA:142:G:O4'	2.18	0.44
1:AA:266:G:C5'	1:AA:267:C:C5	3.01	0.44
1:AA:409:G:OP1	4:AD:22:LYS:HB3	2.17	0.44
1:AA:471:G:O2'	1:AA:472:A:H5'	2.18	0.44
1:AA:518:C:H2'	1:AA:530:G:N3	2.33	0.44
1:AA:687:A:H2	1:AA:700:G:N3	2.15	0.44
1:AA:858:G:C5'	1:AA:858:G:H8	2.31	0.44
1:AA:859:A:C4	1:AA:860:A:C8	3.05	0.44
1:AA:954:G:O2'	13:AM:120:LYS:HD2	2.18	0.44
1:AA:955:U:O2	1:AA:1225:A:N1	2.50	0.44
1:AA:1069:C:H42	1:AA:1106:G:H1	1.64	0.44
1:AA:1151:A:H2'	1:AA:1152:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1452:C:H5'	1:AA:1456:G:N3	2.32	0.44
9:AI:96:LEU:O	9:AI:99:LEU:O	2.36	0.44
9:AI:99:LEU:O	9:AI:101:PHE:N	2.49	0.44
10:AJ:44:VAL:HG12	10:AJ:44:VAL:O	2.16	0.44
11:AK:33:THR:HA	11:AK:38:ASN:O	2.18	0.44
13:AM:118:ALA:CB	22:AV:29:G:H5''	2.45	0.44
14:AN:12:ARG:HB3	14:AN:14:PRO:CD	2.47	0.44
25:AZ:272:MET:O	25:AZ:273:HIS:C	2.60	0.44
25:AZ:300:ARG:HG2	25:AZ:300:ARG:NH1	2.32	0.44
27:B1:25:LYS:HB2	36:BA:388:G:H5'	2.00	0.44
27:B1:30:VAL:O	27:B1:31:GLY:O	2.36	0.44
28:B2:3:LEU:O	28:B2:6:VAL:HB	2.18	0.44
31:B5:12:SER:C	31:B5:14:ALA:N	2.74	0.44
32:B6:6:ARG:HB3	32:B6:6:ARG:CZ	2.45	0.44
34:B8:42:ARG:O	34:B8:44:LYS:N	2.49	0.44
36:BA:537:C:N4	36:BA:556:G:N1	2.57	0.44
36:BA:635:C:O2'	36:BA:639:U:OP1	2.36	0.44
36:BA:696:G:N3	36:BA:696:G:C2'	2.79	0.44
36:BA:821:A:C5'	36:BA:822:U:C6	3.01	0.44
36:BA:1006:C:H2'	36:BA:1007:C:H6	1.82	0.44
36:BA:1131:G:N7	36:BA:2025:C:H4'	2.32	0.44
36:BA:1453:U:OP1	50:BR:77:ARG:HD3	2.17	0.44
36:BA:1542:A:H5'	36:BA:1543:C:OP2	2.18	0.44
36:BA:1678:G:N2	36:BA:1989:G:H1	2.15	0.44
36:BA:1814:G:C4'	39:BD:51:VAL:HG21	2.47	0.44
36:BA:1887:C:C3'	36:BA:1888:G:C5'	2.95	0.44
36:BA:1890:A:H2	36:BA:2235:G:O4'	2.00	0.44
36:BA:1899:G:H21	36:BA:1902:C:N4	2.08	0.44
36:BA:1902:C:O2'	39:BD:244:ARG:CB	2.64	0.44
36:BA:2348:U:O2'	36:BA:2349:G:H5'	2.16	0.44
36:BA:2392:A:H2'	36:BA:2393:A:O4'	2.18	0.44
36:BA:2633:G:C5'	36:BA:2812:G:H5'	2.48	0.44
37:BB:76:G:H5''	58:BZ:15:PRO:CB	2.47	0.44
40:BE:12:THR:OG1	40:BE:13:ARG:N	2.50	0.44
40:BE:51:PHE:CD1	40:BE:51:PHE:C	2.96	0.44
41:BF:89:VAL:HG12	41:BF:90:PHE:N	2.32	0.44
42:BG:102:PHE:O	42:BG:103:LEU:C	2.61	0.44
42:BG:152:LEU:N	42:BG:152:LEU:HD23	2.32	0.44
42:BG:172:LEU:O	42:BG:176:LEU:HD12	2.17	0.44
46:BN:103:VAL:O	46:BN:106:MET:N	2.50	0.44
46:BN:103:VAL:C	46:BN:105:GLY:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:25:LEU:HD11	47:BO:40:VAL:HG22	2.00	0.44
47:BO:105:GLU:HA	47:BO:108:GLU:OE1	2.18	0.44
48:BP:36:LYS:CB	48:BP:41:ARG:CB	2.96	0.44
49:BQ:45:GLN:HE21	49:BQ:45:GLN:N	2.12	0.44
50:BR:44:LEU:HD13	50:BR:44:LEU:O	2.17	0.44
51:BS:12:PHE:N	51:BS:12:PHE:HD2	2.16	0.44
53:BU:17:ILE:O	53:BU:18:LEU:C	2.60	0.44
53:BU:55:ARG:HG2	53:BU:58:ARG:HD2	1.99	0.44
53:BU:109:LEU:O	53:BU:113:ALA:N	2.50	0.44
55:BW:11:ARG:HH12	55:BW:98:LYS:HB3	1.75	0.44
57:BY:28:LYS:HA	57:BY:38:ILE:HG22	1.99	0.44
57:BY:81:LYS:CD	57:BY:97:ARG:O	2.57	0.44
58:BZ:60:GLU:C	58:BZ:61:LEU:HG	2.42	0.44
1:CA:51:A:C6	1:CA:353:A:C2	3.05	0.44
1:CA:136:C:H2'	1:CA:137:C:H6	1.82	0.44
1:CA:232:G:H2'	1:CA:233:C:O4'	2.17	0.44
1:CA:545:C:O2'	1:CA:546:G:H5'	2.18	0.44
1:CA:805:C:C2	1:CA:806:C:C5	3.05	0.44
1:CA:1202:G:H4'	14:CN:29:ARG:CD	2.43	0.44
1:CA:1298:C:H2'	7:CG:114:ARG:HH12	1.82	0.44
1:CA:1320:C:H5'	1:CA:1320:C:H6	1.82	0.44
1:CA:1508:G:C2'	1:CA:1509:C:H5'	2.48	0.44
4:CD:116:GLN:O	4:CD:117:ALA:C	2.61	0.44
5:CE:148:VAL:C	5:CE:150:ARG:N	2.75	0.44
7:CG:50:ILE:O	7:CG:54:THR:O	2.35	0.44
7:CG:95:ARG:O	7:CG:97:GLN:N	2.51	0.44
7:CG:102:ARG:O	7:CG:103:TRP:C	2.61	0.44
9:CI:10:ARG:HE	9:CI:10:ARG:CA	2.30	0.44
9:CI:80:GLY:C	9:CI:82:ALA:N	2.75	0.44
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	2.00	0.44
10:CJ:28:ARG:C	10:CJ:30:SER:N	2.70	0.44
11:CK:90:GLY:O	11:CK:93:GLN:N	2.51	0.44
12:CL:62:SER:C	12:CL:64:TYR:N	2.75	0.44
13:CM:13:LYS:HA	13:CM:44:ARG:HD2	1.99	0.44
13:CM:118:ALA:HB3	22:CV:29:G:H5''	2.00	0.44
16:CP:6:LEU:HB3	16:CP:17:TYR:HB3	2.00	0.44
16:CP:12:LYS:O	16:CP:14:ASN:N	2.51	0.44
19:CS:15:LEU:HD22	19:CS:15:LEU:HA	1.89	0.44
21:CU:20:LYS:C	21:CU:22:ARG:H	2.25	0.44
22:CW:1:G:N3	22:CW:1:G:C2'	2.78	0.44
26:D0:84:LEU:HD12	26:D0:84:LEU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:36:CYS:HB3	31:D5:49:CYS:CB	2.38	0.44
36:DA:271(K):U:H2'	36:DA:271(M):G:N2	2.32	0.44
36:DA:680:G:C2	36:DA:798:G:N3	2.86	0.44
36:DA:782:A:N6	39:DD:226:MET:HE3	2.32	0.44
36:DA:841:A:C6	36:DA:938:G:N1	2.85	0.44
36:DA:1090:U:H2'	36:DA:1091:G:O4'	2.18	0.44
36:DA:1174:A:OP1	36:DA:1174:A:H3'	2.17	0.44
36:DA:1354:A:H3'	36:DA:1355:G:H8	1.83	0.44
36:DA:1593:G:C2	36:DA:1594:G:C8	3.05	0.44
36:DA:1658:C:OP1	40:DE:132:HIS:CE1	2.71	0.44
36:DA:1697:G:H5''	36:DA:1979:C:OP1	2.16	0.44
36:DA:1796:U:OP1	39:DD:276:LYS:HE3	2.17	0.44
36:DA:2043:C:H2'	36:DA:2044:C:C6	2.52	0.44
36:DA:2070:G:N2	36:DA:2442:C:H1'	2.33	0.44
36:DA:2078:C:C4	36:DA:2079:U:C4	3.06	0.44
36:DA:2271:G:O2'	36:DA:2272:U:H5'	2.17	0.44
36:DA:2582:G:N2	36:DA:2583:G:H1'	2.33	0.44
36:DA:2748:A:H2'	36:DA:2748:A:N3	2.33	0.44
36:DA:2821:A:H2'	36:DA:2822:G:O4'	2.17	0.44
38:DC:106:GLY:O	38:DC:107:TRP:HB3	2.18	0.44
40:DE:52:LEU:O	40:DE:74:PRO:CB	2.66	0.44
40:DE:56:PRO:O	40:DE:57:LYS:CB	2.66	0.44
41:DF:31:HIS:HB2	48:DP:13:ASN:OD1	2.18	0.44
42:DG:112:PRO:CG	42:DG:113:ARG:N	2.81	0.44
42:DG:121:ASN:HA	42:DG:122:PRO:HD2	1.89	0.44
48:DP:33:ARG:O	48:DP:34:GLY:C	2.60	0.44
48:DP:56:SER:O	48:DP:57:THR:C	2.61	0.44
48:DP:59:LEU:C	48:DP:59:LEU:HD23	2.43	0.44
49:DQ:48:GLU:HG3	49:DQ:51:ARG:HG2	1.99	0.44
49:DQ:77:LYS:HD3	49:DQ:81:VAL:CG1	2.48	0.44
49:DQ:113:GLN:O	49:DQ:116:GLU:HB3	2.17	0.44
51:DS:74:ALA:O	51:DS:76:LYS:N	2.50	0.44
52:DT:11:GLU:O	52:DT:14:TYR:CE1	2.71	0.44
52:DT:48:ILE:HD12	52:DT:48:ILE:H	1.83	0.44
52:DT:66:VAL:HG12	52:DT:71:GLY:HA2	1.99	0.44
53:DU:81:HIS:O	53:DU:82:GLY:C	2.60	0.44
55:DW:59:VAL:HG12	55:DW:60:ASN:N	2.33	0.44
58:DZ:12:GLY:O	58:DZ:13:GLU:HG2	2.18	0.44
58:DZ:151:HIS:ND1	58:DZ:152:ALA:N	2.66	0.44
1:AA:29:G:O2'	1:AA:30:U:H5'	2.17	0.44
1:AA:128:G:O2'	17:AQ:3:LYS:HE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:189:G:N1	1:AA:189(L):G:C6	2.86	0.44
1:AA:282:A:H2'	1:AA:282:A:N3	2.33	0.44
1:AA:490:G:N1	1:AA:491:G:C5	2.85	0.44
1:AA:570:G:H1'	1:AA:820:U:C4	2.52	0.44
1:AA:673:G:N2	1:AA:674:G:C2	2.85	0.44
1:AA:681:C:O5'	1:AA:681:C:H6	2.00	0.44
1:AA:682:G:N1	1:AA:683:G:C5	2.86	0.44
1:AA:794:A:H2'	1:AA:795:C:C6	2.53	0.44
1:AA:975:A:H61	10:AJ:48:THR:HB	1.81	0.44
1:AA:982:U:C5	1:AA:983:A:N6	2.86	0.44
1:AA:1067:A:H4'	1:AA:1068:G:O5'	2.18	0.44
1:AA:1262:C:H42	1:AA:1273:G:H1	1.66	0.44
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.32	0.44
1:AA:1431:C:O2	1:AA:1432:G:O4'	2.36	0.44
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.17	0.44
2:AB:221:LEU:HD13	2:AB:221:LEU:O	2.18	0.44
3:AC:76:VAL:C	3:AC:83:ARG:HG2	2.43	0.44
3:AC:124:ILE:C	3:AC:126:ARG:H	2.26	0.44
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.32	0.44
5:AE:110:LEU:O	5:AE:115:VAL:HG23	2.17	0.44
7:AG:13:GLN:O	7:AG:14:PRO:C	2.61	0.44
8:AH:6:ILE:C	8:AH:8:ASP:N	2.74	0.44
8:AH:9:MET:HE3	8:AH:36:LEU:CD2	2.46	0.44
11:AK:65:ALA:HB1	11:AK:98:LEU:CD2	2.47	0.44
11:AK:127:LYS:C	11:AK:129:SER:N	2.76	0.44
12:AL:89:ARG:CD	12:AL:91:LYS:HE2	2.44	0.44
13:AM:115:LYS:O	13:AM:116:THR:C	2.59	0.44
18:AR:66:LEU:CG	18:AR:70:ILE:HD11	2.39	0.44
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.99	0.44
19:AS:51:VAL:HG21	19:AS:71:LEU:HB3	2.00	0.44
24:AY:29:C:H2'	24:AY:30:C:O4'	2.18	0.44
25:AZ:38:GLU:OE2	25:AZ:39:ASN:ND2	2.51	0.44
25:AZ:253:VAL:HG22	25:AZ:265:THR:O	2.18	0.44
28:B2:35:LEU:C	28:B2:37:PHE:H	2.26	0.44
30:B4:14:ILE:H	30:B4:14:ILE:CD1	2.31	0.44
31:B5:37:LYS:HE3	31:B5:37:LYS:HB2	1.84	0.44
36:BA:45:C:O2'	36:BA:47:C:H5'	2.18	0.44
36:BA:64:A:H2'	36:BA:65:C:H6	1.82	0.44
36:BA:90:U:O2	36:BA:90:U:C2'	2.65	0.44
36:BA:239:U:H2'	36:BA:240:G:O4'	2.17	0.44
36:BA:272(J):C:C2'	36:BA:274:G:H5''	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:414:C:H5'	36:BA:1879:C:O2'	2.16	0.44
36:BA:530:G:OP2	36:BA:530:G:H2'	2.18	0.44
36:BA:552:G:H1'	36:BA:1220:A:C6	2.53	0.44
36:BA:587:C:N3	36:BA:671:C:C6	2.86	0.44
36:BA:746:A:O2'	36:BA:2611:U:O2'	2.25	0.44
36:BA:760:G:H2'	36:BA:761:A:O4'	2.17	0.44
36:BA:834:C:H2'	36:BA:835:A:H8	1.83	0.44
36:BA:908:C:OP2	49:BQ:22:LYS:HG2	2.17	0.44
36:BA:955:C:O2'	36:BA:956:G:H5'	2.16	0.44
36:BA:1188:U:C2'	36:BA:1189:A:H5'	2.47	0.44
36:BA:1196:C:H2'	36:BA:1197:G:H8	1.83	0.44
36:BA:1277:G:H2'	36:BA:1278:A:O4'	2.16	0.44
36:BA:1328:G:N2	36:BA:1647:G:H1	2.15	0.44
36:BA:1367:A:C2'	36:BA:1368:G:H5'	2.45	0.44
36:BA:1368:G:O2'	36:BA:1369:G:H5'	2.18	0.44
36:BA:1477:A:H2'	36:BA:1478:G:O4'	2.18	0.44
36:BA:1520:G:H2'	36:BA:1523:U:H5'	2.00	0.44
36:BA:1651:G:C2'	36:BA:1652:A:H5'	2.48	0.44
36:BA:2104:G:O6	36:BA:2185:C:N3	2.50	0.44
36:BA:2197:U:O2'	36:BA:2198:A:H2'	2.18	0.44
36:BA:2527:C:N4	36:BA:2536:G:O6	2.50	0.44
36:BA:2636:U:H1'	36:BA:2783:G:H22	1.82	0.44
36:BA:2760:C:H2'	36:BA:2761:G:C5'	2.41	0.44
37:BB:64:C:H2'	37:BB:65:C:O4'	2.17	0.44
37:BB:96:U:H2'	37:BB:97:G:C8	2.52	0.44
38:BC:62:VAL:O	38:BC:160:ARG:HA	2.18	0.44
39:BD:117:VAL:CG2	39:BD:128:GLY:C	2.91	0.44
39:BD:118:VAL:CG2	39:BD:119:ALA:N	2.81	0.44
40:BE:44:TYR:O	40:BE:45:THR:CB	2.60	0.44
41:BF:93:LYS:O	41:BF:94:PRO:C	2.61	0.44
41:BF:155:LEU:CD1	41:BF:176:LEU:HD22	2.45	0.44
41:BF:169:ASN:O	41:BF:170:LEU:O	2.35	0.44
41:BF:181:LEU:HD11	41:BF:186:ILE:CD1	2.37	0.44
42:BG:112:PRO:C	42:BG:114:ILE:H	2.24	0.44
43:BH:89:ILE:O	43:BH:129:THR:HB	2.17	0.44
47:BO:120:GLU:HB2	52:BT:68:TYR:HE2	1.83	0.44
48:BP:16:ARG:C	48:BP:16:ARG:HD3	2.42	0.44
49:BQ:35:VAL:HG23	49:BQ:101:ARG:O	2.18	0.44
50:BR:12:ARG:HD3	50:BR:16:HIS:NE2	2.32	0.44
53:BU:59:ARG:C	53:BU:61:TRP:N	2.76	0.44
54:BV:4:ILE:O	54:BV:39:LEU:HD22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:27:VAL:C	57:BY:29:GLU:OE1	2.61	0.44
57:BY:73:ARG:HE	57:BY:73:ARG:CA	2.28	0.44
1:CA:22:G:O2'	1:CA:913:A:N1	2.39	0.44
1:CA:44:G:H1'	1:CA:399:G:N2	2.33	0.44
1:CA:113:G:C2	1:CA:315:A:C2	3.05	0.44
1:CA:342:C:O2'	1:CA:343:U:H5'	2.18	0.44
1:CA:397:A:N7	1:CA:547:A:H2'	2.32	0.44
1:CA:428:G:O4'	1:CA:430:A:C8	2.70	0.44
1:CA:967:C:H4'	9:CI:125:TYR:CE2	2.53	0.44
1:CA:982:U:C5	1:CA:983:A:N6	2.86	0.44
1:CA:990:C:H2'	1:CA:991:U:C6	2.53	0.44
1:CA:1048:G:C2	1:CA:1050:G:N7	2.85	0.44
1:CA:1162:C:C2	1:CA:1175:G:C2	3.06	0.44
1:CA:1192:C:H2'	1:CA:1193:G:O5'	2.17	0.44
1:CA:1194:U:H4'	5:CE:22:GLY:HA2	1.99	0.44
1:CA:1353:G:C6	1:CA:1354:C:N4	2.86	0.44
1:CA:1366:C:OP1	9:CI:117:HIS:HE1	2.01	0.44
1:CA:1399:C:O2'	1:CA:1400:C:OP2	2.32	0.44
1:CA:1452:C:OP2	1:CA:1456:G:C5	2.71	0.44
1:CA:1499:A:H2'	1:CA:1500:A:O4'	2.18	0.44
2:CB:8:LYS:CE	2:CB:217:ARG:NH2	2.81	0.44
2:CB:22:LYS:CE	2:CB:40:HIS:HE1	2.30	0.44
2:CB:92:TYR:OH	2:CB:150:SER:HB3	2.16	0.44
2:CB:114:ARG:HD2	2:CB:118:LEU:HD11	2.00	0.44
2:CB:142:LEU:O	2:CB:146:GLN:N	2.49	0.44
3:CC:101:LEU:HD23	3:CC:102:ASN:O	2.18	0.44
4:CD:34:GLU:O	4:CD:35:ARG:CB	2.66	0.44
4:CD:55:ALA:O	4:CD:58:LEU:N	2.48	0.44
8:CH:6:ILE:C	8:CH:8:ASP:N	2.73	0.44
13:CM:23:TYR:HB3	13:CM:67:GLU:CB	2.47	0.44
13:CM:74:VAL:HG12	13:CM:75:ALA:N	2.32	0.44
13:CM:84:ILE:HB	19:CS:74:PHE:HD1	1.82	0.44
13:CM:90:LEU:O	13:CM:92:HIS:N	2.49	0.44
13:CM:98:VAL:O	13:CM:98:VAL:HG12	2.18	0.44
19:CS:37:ARG:HD3	19:CS:37:ARG:O	2.18	0.44
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.18	0.44
22:CV:18:G:H4'	22:CV:60:U:C2	2.53	0.44
22:CW:30:G:O2'	22:CW:31:A:H5'	2.17	0.44
22:CW:54:U:C5'	38:DC:54:SER:HB2	2.48	0.44
24:CY:7:A:HO2'	24:CY:49:G:H8	1.64	0.44
25:CZ:382:GLU:HA	25:CZ:400:VAL:CG1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:28:LYS:HA	28:D2:28:LYS:HD3	1.76	0.44
28:D2:38:GLN:HB3	28:D2:44:LEU:CD2	2.47	0.44
32:D6:12:GLU:CB	32:D6:23:THR:HG22	2.48	0.44
34:D8:10:ALA:O	34:D8:13:ARG:N	2.50	0.44
36:DA:93:G:H2'	36:DA:94:C:C6	2.53	0.44
36:DA:206:U:H2'	36:DA:207:A:C8	2.52	0.44
36:DA:251:A:H2'	36:DA:252:G:H5'	2.00	0.44
36:DA:272(J):C:C2'	36:DA:274:G:H5''	2.47	0.44
36:DA:391:G:O5'	36:DA:391:G:C8	2.70	0.44
36:DA:548:A:C2'	36:DA:549:G:H5'	2.47	0.44
36:DA:693:C:O2'	36:DA:694:U:H5'	2.17	0.44
36:DA:858:U:H1'	36:DA:2268:A:O2'	2.17	0.44
36:DA:884:C:N3	36:DA:893:C:N3	2.65	0.44
36:DA:948:G:C6	36:DA:949:C:C4	3.05	0.44
36:DA:1238:G:N2	36:DA:1239:G:H1'	2.32	0.44
36:DA:1339:G:N2	36:DA:1603:A:N3	2.65	0.44
36:DA:1475:G:C2	36:DA:1517:G:N3	2.85	0.44
36:DA:1494:A:O2'	36:DA:1495:A:H5''	2.17	0.44
36:DA:1769:G:C1'	36:DA:1958:C:H5''	2.48	0.44
36:DA:2455:G:N1	36:DA:2498:C:N4	2.65	0.44
36:DA:2593:U:C2	36:DA:2594:C:C5	3.06	0.44
36:DA:2603:G:C5	36:DA:2604:U:C5	3.06	0.44
36:DA:2704:C:H2'	36:DA:2705:A:O4'	2.16	0.44
36:DA:2836:U:H2'	36:DA:2837:G:C8	2.53	0.44
38:DC:1:PRO:C	38:DC:3:HIS:N	2.76	0.44
38:DC:207:THR:H	38:DC:210:ARG:HH12	1.66	0.44
39:DD:155:LEU:HD23	39:DD:177:LEU:HD22	2.00	0.44
41:DF:7:TYR:HD2	41:DF:16:GLY:CA	2.30	0.44
42:DG:145:THR:HG22	42:DG:147:ASP:N	2.32	0.44
42:DG:170:ARG:HE	42:DG:174:GLU:HB2	1.82	0.44
43:DH:152:ARG:HG3	43:DH:152:ARG:HH11	1.83	0.44
46:DN:39:ARG:O	46:DN:41:ASP:N	2.47	0.44
54:DV:20:LEU:H	54:DV:20:LEU:CD1	2.26	0.44
54:DV:91:TYR:HD1	54:DV:92:THR:N	2.15	0.44
58:DZ:132:ASN:C	58:DZ:133:ILE:HD13	2.42	0.44
1:AA:10:A:C2	1:AA:11:G:N7	2.86	0.44
1:AA:310:G:H2'	1:AA:311:C:C6	2.53	0.44
1:AA:360:A:O2'	1:AA:361:G:H5'	2.18	0.44
1:AA:552:U:C2	1:AA:553:A:C8	3.06	0.44
1:AA:836:G:H2'	1:AA:837:G:H8	1.83	0.44
1:AA:1057:G:H3'	1:AA:1058:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1073:U:H3	1:AA:1102:A:N6	2.15	0.44
1:AA:1254:C:H2'	1:AA:1255:G:H8	1.83	0.44
1:AA:1377:A:H2'	7:AG:7:ALA:CB	2.47	0.44
1:AA:1430:C:O2	1:AA:1471:G:C2	2.71	0.44
1:AA:1494:G:O3'	13:AM:125:ARG:NH1	2.51	0.44
1:AA:1523:G:H2'	1:AA:1524:C:H6	1.83	0.44
2:AB:92:TYR:HD1	2:AB:93:VAL:N	2.15	0.44
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.81	0.44
2:AB:157:ARG:CZ	2:AB:157:ARG:CB	2.95	0.44
3:AC:182:ILE:HA	3:AC:202:ILE:O	2.17	0.44
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.63	0.44
7:AG:42:ILE:C	7:AG:44:TYR:N	2.72	0.44
7:AG:126:ASP:C	7:AG:128:ALA:N	2.76	0.44
8:AH:7:ALA:HB2	8:AH:85:ARG:CD	2.37	0.44
8:AH:29:SER:O	8:AH:32:LYS:N	2.50	0.44
8:AH:70:GLN:O	8:AH:71:GLY:O	2.36	0.44
9:AI:58:HIS:O	9:AI:58:HIS:CG	2.71	0.44
9:AI:116:LYS:HA	9:AI:123:PRO:HD3	1.99	0.44
11:AK:108:ILE:HB	18:AR:87:ARG:HA	1.98	0.44
18:AR:36:ASN:OD1	18:AR:39:VAL:HB	2.18	0.44
18:AR:73:ALA:HB1	18:AR:79:LEU:HD12	1.99	0.44
19:AS:20:LEU:HD23	19:AS:20:LEU:HA	1.65	0.44
24:AY:48:C:H5'	24:AY:50:G:OP2	2.18	0.44
25:AZ:126:VAL:HG12	25:AZ:126:VAL:O	2.17	0.44
25:AZ:176:LEU:CB	62:AZ:501:GDP:C6	3.00	0.44
25:AZ:331:HIS:CD2	25:AZ:332:THR:HG23	2.53	0.44
27:B1:58:ILE:C	27:B1:59:THR:HG23	2.43	0.44
29:B3:8:LEU:CD2	29:B3:8:LEU:O	2.66	0.44
36:BA:406:G:H2'	36:BA:407:G:H8	1.82	0.44
36:BA:420:C:H2'	36:BA:421:U:C6	2.52	0.44
36:BA:529:A:H4'	36:BA:530:G:O5'	2.17	0.44
36:BA:569:U:C4	36:BA:570:G:C6	3.06	0.44
36:BA:575:A:C2'	36:BA:576:U:H5'	2.48	0.44
36:BA:718:A:O5'	36:BA:718:A:H8	2.01	0.44
36:BA:793:A:OP2	36:BA:2072:G:H5'	2.18	0.44
36:BA:945:A:H4'	36:BA:945:A:OP2	2.17	0.44
36:BA:1168:G:N1	36:BA:1182:A:C6	2.86	0.44
36:BA:1269:A:N6	36:BA:2011:U:H3	2.14	0.44
36:BA:1297:C:O2'	36:BA:1298:C:H5'	2.18	0.44
36:BA:1412:A:O2'	36:BA:1413:G:H5'	2.17	0.44
36:BA:1435:G:H2'	36:BA:1436:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1476:C:H2'	36:BA:1477:A:C8	2.53	0.44
36:BA:1652:A:N6	36:BA:1653:G:N2	2.65	0.44
36:BA:1822:G:C5	36:BA:1823:G:N7	2.86	0.44
36:BA:1862:G:N2	36:BA:1881:C:O2	2.50	0.44
36:BA:2026:C:N4	36:BA:2037:G:H1	2.15	0.44
36:BA:2164:C:H2'	36:BA:2165:G:H5'	1.99	0.44
36:BA:2305:A:H1'	42:BG:136:ARG:HG3	1.98	0.44
36:BA:2540:C:H2'	36:BA:2541:A:O4'	2.18	0.44
36:BA:2580:U:H3'	36:BA:2581:G:N3	2.33	0.44
36:BA:2721:A:C2'	36:BA:2722:G:H8	2.27	0.44
36:BA:2744:G:C2	36:BA:2761:G:C4	3.05	0.44
36:BA:2870:C:O2'	36:BA:2871:C:H5'	2.18	0.44
38:BC:91:ALA:HB3	38:BC:94:VAL:CG2	2.48	0.44
39:BD:17:THR:OG1	39:BD:205:VAL:N	2.41	0.44
39:BD:127:VAL:HA	39:BD:193:VAL:HG13	2.00	0.44
39:BD:239:ARG:HG2	39:BD:239:ARG:NH2	2.28	0.44
41:BF:43:LYS:CB	41:BF:98:SER:HB3	2.46	0.44
41:BF:158:THR:HG23	41:BF:160:ASN:H	1.82	0.44
42:BG:32:PRO:HG3	42:BG:168:GLU:OE1	2.18	0.44
42:BG:82:LEU:HD22	42:BG:87:PRO:HG3	1.99	0.44
42:BG:83:ARG:C	42:BG:85:GLY:N	2.76	0.44
42:BG:87:PRO:HG2	42:BG:88:ILE:N	2.27	0.44
43:BH:50:VAL:HG12	43:BH:51:ARG:N	2.32	0.44
43:BH:107:VAL:O	43:BH:109:PHE:N	2.51	0.44
45:BK:20:UNK:HA	45:BK:24:UNK:CB	2.48	0.44
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.99	0.44
46:BN:35:ARG:O	46:BN:35:ARG:CG	2.60	0.44
46:BN:131:GLN:NE2	46:BN:133:GLN:N	2.65	0.44
47:BO:8:LEU:HD22	47:BO:19:ILE:HG13	2.00	0.44
50:BR:22:ARG:O	50:BR:26:LYS:HB2	2.18	0.44
53:BU:59:ARG:O	53:BU:61:TRP:N	2.51	0.44
54:BV:62:LEU:CD2	54:BV:95:LEU:HB2	2.46	0.44
55:BW:73:ALA:HB3	55:BW:106:ILE:HD11	2.00	0.44
56:BX:39:ILE:CG2	56:BX:54:VAL:HG11	2.41	0.44
1:CA:45:U:H2'	1:CA:46:G:H8	1.82	0.44
1:CA:141:A:H2'	1:CA:142:G:O4'	2.18	0.44
1:CA:686:U:C2'	1:CA:687:A:H8	2.29	0.44
1:CA:691:G:H2'	1:CA:692:U:H6	1.83	0.44
1:CA:797:C:OP1	11:CK:124:LYS:CE	2.62	0.44
1:CA:901:A:C6	1:CA:902:G:H1'	2.53	0.44
1:CA:961:U:H5'	1:CA:984:C:H1'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:995:C:O2'	1:CA:996:A:O5'	2.33	0.44
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.53	0.44
1:CA:1126:U:H2'	1:CA:1127:G:O4'	2.17	0.44
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.52	0.44
1:CA:1175:G:C6	1:CA:1176:A:C6	3.06	0.44
1:CA:1176:A:H2'	1:CA:1177:G:C8	2.53	0.44
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.53	0.44
2:CB:59:GLU:O	2:CB:60:ASP:C	2.60	0.44
2:CB:111:ARG:HH11	2:CB:111:ARG:HG2	1.82	0.44
4:CD:156:GLU:O	4:CD:159:ARG:HB2	2.18	0.44
6:CF:39:LYS:HB2	6:CF:64:GLN:CB	2.48	0.44
6:CF:39:LYS:HB2	6:CF:64:GLN:HB3	2.00	0.44
7:CG:54:THR:HG22	7:CG:125:MET:HE3	1.98	0.44
8:CH:4:ASP:CG	8:CH:7:ALA:HB3	2.43	0.44
10:CJ:7:LYS:H	10:CJ:97:GLU:HB2	1.82	0.44
10:CJ:50:ILE:HG23	10:CJ:60:ARG:HD3	2.00	0.44
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.65	0.44
15:CO:39:LEU:C	15:CO:41:GLU:N	2.75	0.44
15:CO:74:ASP:OD2	15:CO:76:GLU:N	2.47	0.44
17:CQ:88:TYR:OH	17:CQ:92:ARG:CZ	2.66	0.44
18:CR:25:THR:CG2	18:CR:42:ARG:HH11	2.31	0.44
19:CS:20:LEU:HD23	19:CS:20:LEU:HA	1.67	0.44
22:CV:2:C:H2'	22:CV:3:C:C6	2.53	0.44
25:CZ:163:PHE:O	25:CZ:165:GLY:N	2.44	0.44
26:D0:41:ARG:HD2	26:D0:41:ARG:HA	1.76	0.44
32:D6:23:THR:HG21	36:DA:2419:U:H4'	2.00	0.44
32:D6:35:GLU:HB3	32:D6:51:GLU:OE1	2.18	0.44
36:DA:211:A:H2'	36:DA:212:G:C8	2.53	0.44
36:DA:572:A:H3'	36:DA:573:G:O4'	2.18	0.44
36:DA:591:C:H2'	36:DA:592:G:C8	2.53	0.44
36:DA:832:G:P	48:DP:40:SER:HB2	2.57	0.44
36:DA:939:G:C4	36:DA:940:G:C8	3.06	0.44
36:DA:1006:C:H42	36:DA:1137:G:H1	1.66	0.44
36:DA:1027:A:N3	36:DA:1027:A:C2'	2.77	0.44
36:DA:1131:G:H21	46:DN:73:THR:HG22	1.83	0.44
36:DA:1427:A:H1'	36:DA:1428:C:C5	2.51	0.44
36:DA:1678:G:N2	36:DA:1989:G:H1	2.15	0.44
36:DA:1678:G:N2	36:DA:1989:G:H22	2.15	0.44
36:DA:2205:C:C2	36:DA:2220:G:N1	2.85	0.44
36:DA:2521:C:O2	36:DA:2521:C:H2'	2.17	0.44
36:DA:2562:U:H2'	36:DA:2563:U:C5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2572:A:P	40:DE:144:ARG:HB2	2.58	0.44
36:DA:2683:C:H42	36:DA:2727:G:H21	1.64	0.44
36:DA:2778:A:O2'	36:DA:2780:G:O2'	2.35	0.44
37:DB:56:G:O2'	37:DB:57:A:OP2	2.25	0.44
38:DC:207:THR:HB	38:DC:210:ARG:NH1	2.32	0.44
39:DD:2:ALA:N	39:DD:200:ASP:OD2	2.51	0.44
39:DD:138:VAL:HA	39:DD:165:ILE:HG21	2.00	0.44
40:DE:4:ILE:CG1	40:DE:5:LEU:N	2.80	0.44
40:DE:82:ARG:NH1	40:DE:82:ARG:CG	2.79	0.44
41:DF:10:PRO:HD2	41:DF:13:SER:O	2.18	0.44
41:DF:126:VAL:HG21	41:DF:129:PHE:CZ	2.53	0.44
42:DG:11:TYR:CD1	42:DG:15:VAL:HG21	2.51	0.44
42:DG:138:GLN:OE1	42:DG:153:ARG:N	2.47	0.44
42:DG:152:LEU:HG	42:DG:152:LEU:O	2.18	0.44
44:DJ:23:UNK:CB	44:DJ:92:UNK:CB	2.96	0.44
46:DN:57:ALA:CB	46:DN:124:ALA:HA	2.45	0.44
49:DQ:20:ALA:N	58:DZ:79:ARG:NH2	2.55	0.44
50:DR:64:ARG:C	50:DR:66:VAL:N	2.74	0.44
51:DS:15:ARG:HH11	51:DS:18:ILE:HD11	1.83	0.44
53:DU:46:ALA:O	53:DU:47:TYR:C	2.61	0.44
55:DW:76:VAL:CB	55:DW:103:ILE:HG23	2.48	0.44
57:DY:8:LYS:CE	57:DY:72:VAL:HG23	2.47	0.44
57:DY:63:LYS:HG2	57:DY:64:GLU:N	2.33	0.44
57:DY:88:LYS:HD2	57:DY:88:LYS:N	2.32	0.44
58:DZ:48:PHE:C	58:DZ:50:GLN:N	2.72	0.44
1:AA:16:A:H2	1:AA:1080:A:N3	2.15	0.44
1:AA:119:A:H5''	1:AA:120:A:H5'	1.99	0.44
1:AA:258:G:O2'	1:AA:259:G:H5'	2.17	0.44
1:AA:405:U:C3'	1:AA:406:G:H5'	2.37	0.44
1:AA:428:G:O4'	1:AA:430:A:C8	2.71	0.44
1:AA:544:G:OP1	4:AD:59:ARG:NH2	2.49	0.44
1:AA:686:U:H1'	11:AK:42:TRP:HE1	1.82	0.44
1:AA:1071:C:N3	1:AA:1105:A:C2	2.86	0.44
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.53	0.44
1:AA:1221:G:N2	1:AA:1222:G:H1'	2.32	0.44
1:AA:1228:C:H6	1:AA:1228:C:H3'	1.83	0.44
1:AA:1239:A:C4	1:AA:1241:G:C2	3.06	0.44
1:AA:1250:A:H5'	9:AI:67:GLY:HA2	2.00	0.44
1:AA:1487:G:H2'	1:AA:1488:G:O5'	2.18	0.44
2:AB:112:VAL:O	2:AB:113:HIS:C	2.59	0.44
2:AB:200:ILE:CG2	2:AB:202:PRO:HD3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:18:TRP:N	3:AC:18:TRP:CE3	2.85	0.44
4:AD:108:LEU:HD12	4:AD:165:MET:HE1	1.99	0.44
4:AD:150:GLU:O	4:AD:152:SER:N	2.51	0.44
4:AD:200:GLU:O	4:AD:204:ILE:HG13	2.17	0.44
5:AE:38:GLN:OE1	5:AE:38:GLN:HA	2.17	0.44
6:AF:37:VAL:C	6:AF:38:GLU:HG3	2.42	0.44
7:AG:16:LEU:HD12	9:AI:41:VAL:O	2.17	0.44
7:AG:117:ALA:O	7:AG:118:VAL:C	2.61	0.44
9:AI:24:GLY:O	9:AI:25:LYS:C	2.61	0.44
9:AI:86:VAL:O	9:AI:90:PRO:HA	2.18	0.44
13:AM:79:LYS:HB3	13:AM:82:MET:SD	2.58	0.44
16:AP:14:ASN:HA	16:AP:42:ARG:CZ	2.46	0.44
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.17	0.44
24:AY:77:THR:HG22	25:AZ:239:THR:HG22	2.00	0.44
25:AZ:169:PRO:HG2	25:AZ:209:TYR:CD2	2.53	0.44
25:AZ:223:MET:O	25:AZ:223:MET:CE	2.64	0.44
25:AZ:364:PRO:C	25:AZ:366:ASP:H	2.24	0.44
25:AZ:371:THR:HG22	25:AZ:372:VAL:N	2.32	0.44
28:B2:59:ARG:CA	36:BA:76:C:O2'	2.65	0.44
31:B5:7:PRO:HA	36:BA:2615:U:N3	2.33	0.44
32:B6:22:ALA:HB2	32:B6:39:TYR:CZ	2.53	0.44
33:B7:46:VAL:HG12	33:B7:48:LYS:NZ	2.32	0.44
36:BA:54:G:H8	36:BA:54:G:O5'	2.01	0.44
36:BA:176:G:C5	36:BA:177:G:C6	3.05	0.44
36:BA:310:A:O2'	36:BA:311:A:O5'	2.36	0.44
36:BA:531:C:O2'	36:BA:563:G:H5''	2.18	0.44
36:BA:563:G:O2'	36:BA:564:C:H5'	2.18	0.44
36:BA:606:U:H6	36:BA:606:U:H3'	1.82	0.44
36:BA:654:A:C8	36:BA:654(V):A:H4'	2.52	0.44
36:BA:687:C:O2	36:BA:788:A:H5'	2.18	0.44
36:BA:747:U:H4'	55:BW:89:ALA:HB3	2.00	0.44
36:BA:757:U:H3'	36:BA:757:U:H6	1.83	0.44
36:BA:1203:G:O2'	36:BA:1242:A:N6	2.50	0.44
36:BA:1217:C:C2	36:BA:1218:C:C5	3.05	0.44
36:BA:1224:C:N4	36:BA:1225:G:C6	2.86	0.44
36:BA:1666:G:N2	36:BA:1995:U:C2	2.86	0.44
36:BA:1800:C:H42	36:BA:1817:G:N2	2.16	0.44
36:BA:1826:G:O2'	36:BA:1827:C:H5'	2.18	0.44
36:BA:1865:G:H5'	36:BA:1866:C:OP2	2.17	0.44
36:BA:1902:C:C2'	39:BD:244:ARG:HB2	2.48	0.44
36:BA:1923:U:O2'	36:BA:1924:C:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2015:A:C2'	36:BA:2016:U:H5'	2.47	0.44
36:BA:2064:C:H2'	36:BA:2065:C:H6	1.79	0.44
36:BA:2156:G:N2	36:BA:2157:G:H21	2.15	0.44
36:BA:2222:G:C4	36:BA:2223:G:C8	3.05	0.44
36:BA:2247:A:H2'	36:BA:2248:C:C6	2.53	0.44
36:BA:2612:C:C5	36:BA:2613:U:H5	2.36	0.44
36:BA:2740:A:H2'	36:BA:2741:A:C8	2.52	0.44
36:BA:2843:G:C2	36:BA:2875:C:N4	2.86	0.44
38:BC:42:GLU:OE1	38:BC:216:THR:O	2.36	0.44
39:BD:26:LYS:O	39:BD:27:THR:HG22	2.18	0.44
39:BD:92:ILE:HG13	39:BD:104:TYR:CD2	2.52	0.44
39:BD:193:VAL:HG13	39:BD:193:VAL:O	2.18	0.44
39:BD:221:VAL:O	39:BD:221:VAL:CG2	2.65	0.44
41:BF:107:LYS:O	41:BF:110:LEU:N	2.45	0.44
41:BF:110:LEU:HD12	41:BF:206:ILE:CD1	2.48	0.44
42:BG:96:ARG:HA	42:BG:99:MET:HE2	1.99	0.44
47:BO:86:ILE:CG2	47:BO:94:ARG:HB2	2.46	0.44
48:BP:28:GLY:C	48:BP:29:LYS:HD2	2.43	0.44
48:BP:48:PRO:O	48:BP:49:ARG:O	2.35	0.44
48:BP:95:VAL:HG13	48:BP:123:LEU:HD12	1.99	0.44
50:BR:44:LEU:HD13	50:BR:48:VAL:HB	1.99	0.44
51:BS:13:ARG:HG2	51:BS:13:ARG:NH1	2.32	0.44
51:BS:15:ARG:NH1	51:BS:18:ILE:HD11	2.32	0.44
53:BU:81:HIS:O	53:BU:82:GLY:C	2.60	0.44
57:BY:38:ILE:HD13	57:BY:66:PRO:HG3	1.99	0.44
58:BZ:79:ARG:O	58:BZ:81:ARG:N	2.50	0.44
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG12	1.99	0.44
1:CA:304:U:O2'	1:CA:305:G:H5'	2.17	0.44
1:CA:471:G:OP1	1:CA:471:G:H3'	2.18	0.44
1:CA:499:A:C2	1:CA:547:A:C4	3.06	0.44
1:CA:637:G:O2'	1:CA:638:G:H5'	2.18	0.44
1:CA:966:G:O2'	1:CA:967:C:O5'	2.36	0.44
1:CA:1128:C:N4	1:CA:1139:G:H2'	2.33	0.44
1:CA:1269:A:C2	1:CA:1313:U:H1'	2.53	0.44
1:CA:1412:C:OP1	12:CL:57:LYS:HE2	2.18	0.44
1:CA:1430:C:C2	1:CA:1471:G:N2	2.86	0.44
2:CB:180:LEU:C	2:CB:182:ILE:H	2.26	0.44
2:CB:212:GLN:C	2:CB:212:GLN:CD	2.85	0.44
3:CC:90:GLU:O	3:CC:91:LEU:C	2.60	0.44
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.99	0.44
3:CC:147:LYS:O	3:CC:203:PHE:CD2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:76:ILE:HG21	5:CE:92:LYS:C	2.43	0.44
6:CF:15:ASP:C	6:CF:17:SER:N	2.75	0.44
6:CF:28:ARG:O	6:CF:31:GLU:HB2	2.17	0.44
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.17	0.44
12:CL:62:SER:C	12:CL:64:TYR:H	2.25	0.44
12:CL:126:LYS:C	12:CL:128:ALA:H	2.26	0.44
14:CN:17:LYS:HG3	14:CN:18:VAL:N	2.33	0.44
15:CO:35:ARG:NH2	15:CO:59:MET:HE1	2.33	0.44
15:CO:64:ARG:C	15:CO:66:LEU:N	2.75	0.44
15:CO:74:ASP:OD2	15:CO:74:ASP:C	2.61	0.44
19:CS:10:PHE:HE1	19:CS:70:LYS:HD2	1.82	0.44
20:CT:77:ALA:C	20:CT:79:ARG:N	2.73	0.44
25:CZ:11:HIS:NE2	25:CZ:272:MET:HE1	2.33	0.44
25:CZ:70:TYR:C	25:CZ:70:TYR:HD1	2.26	0.44
25:CZ:104:LEU:CD1	25:CZ:120:ILE:HD11	2.48	0.44
25:CZ:362:VAL:HG11	25:CZ:368:VAL:HG22	1.99	0.44
27:D1:20:ARG:HB2	27:D1:33:LYS:O	2.17	0.44
28:D2:25:VAL:O	28:D2:27:GLU:N	2.51	0.44
30:D4:16:CYS:SG	30:D4:36:CYS:SG	3.15	0.44
34:D8:3:LYS:HD3	36:DA:242:G:H5''	1.99	0.44
34:D8:6:THR:HG21	34:D8:11:LYS:NZ	2.33	0.44
36:DA:13:A:H2	36:DA:14:A:N6	2.15	0.44
36:DA:74:A:C5'	36:DA:75:G:H1'	2.46	0.44
36:DA:573:G:C5'	36:DA:575:A:N7	2.81	0.44
36:DA:596:G:C6	36:DA:597:U:C4	3.05	0.44
36:DA:609:A:H2'	36:DA:610:G:O4'	2.18	0.44
36:DA:753:C:H2'	36:DA:754:C:H6	1.83	0.44
36:DA:958:U:OP2	49:DQ:14:ARG:NH1	2.50	0.44
36:DA:1027:A:O2'	36:DA:1028:A:H5'	2.16	0.44
36:DA:1060:U:OP1	36:DA:1060:U:H6	2.01	0.44
36:DA:1113:U:H2'	36:DA:1114:G:C8	2.53	0.44
36:DA:1150:C:HO2'	36:DA:1151:G:H5'	1.83	0.44
36:DA:1186:G:H8	36:DA:1186:G:O5'	2.01	0.44
36:DA:1487:G:C4	36:DA:1488:G:C8	3.05	0.44
36:DA:1515:G:H2'	36:DA:1516:C:C6	2.53	0.44
36:DA:1662:C:H2'	36:DA:1663:C:C6	2.53	0.44
36:DA:1878:G:O2'	36:DA:1879:C:H5'	2.18	0.44
36:DA:2133:G:H3'	36:DA:2133:G:C8	2.53	0.44
36:DA:2425:A:H5''	36:DA:2427:C:O4'	2.18	0.44
36:DA:2582:G:H21	36:DA:2583:G:C1'	2.31	0.44
36:DA:2690:C:C5'	36:DA:2872:G:H21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DB:13:A:C2	37:DB:70:C:O4'	2.70	0.44
38:DC:188:ASN:O	38:DC:189:ILE:C	2.58	0.44
39:DD:79:VAL:HB	39:DD:114:GLY:H	1.83	0.44
39:DD:213:ARG:HD2	39:DD:213:ARG:HA	1.67	0.44
40:DE:171:GLU:O	40:DE:173:VAL:N	2.51	0.44
41:DF:39:TRP:CE2	41:DF:43:LYS:HE2	2.52	0.44
41:DF:49:ALA:HB1	41:DF:92:PRO:HB3	2.00	0.44
41:DF:121:GLY:C	41:DF:123:LEU:H	2.26	0.44
46:DN:26:LEU:CD1	46:DN:30:ILE:HD11	2.33	0.44
48:DP:16:ARG:C	48:DP:16:ARG:HD3	2.42	0.44
48:DP:36:LYS:CB	48:DP:41:ARG:CB	2.94	0.44
50:DR:67:LEU:HD13	50:DR:70:LEU:O	2.17	0.44
57:DY:8:LYS:HB2	57:DY:28:LYS:CE	2.47	0.44
58:DZ:19:ARG:HB2	58:DZ:82:ARG:NH2	2.33	0.44
58:DZ:129:SER:HA	58:DZ:130:PRO:HD3	1.62	0.44
1:AA:157:G:H2'	1:AA:158:G:C8	2.45	0.44
1:AA:668:G:C2	1:AA:739:C:C2	3.06	0.44
1:AA:719:C:C5	1:AA:720:C:C4	3.05	0.44
1:AA:738:C:H2'	1:AA:739:C:C6	2.53	0.44
1:AA:764:C:H2'	1:AA:765:G:C8	2.52	0.44
1:AA:977:A:H61	1:AA:1224:G:P	2.40	0.44
1:AA:1087:G:H8	1:AA:1087:G:O5'	2.01	0.44
1:AA:1281:U:H3'	1:AA:1282:C:H6	1.83	0.44
1:AA:1303:C:C2	1:AA:1304:G:C8	3.06	0.44
1:AA:1318:A:C1'	19:AS:37:ARG:HH21	2.30	0.44
1:AA:1439:C:H2'	1:AA:1440:C:O4'	2.17	0.44
1:AA:1505:G:H2'	23:AX:18:G:OP2	2.18	0.44
2:AB:19:HIS:O	2:AB:20:GLU:O	2.36	0.44
2:AB:26:PRO:C	2:AB:28:PHE:N	2.74	0.44
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.33	0.44
2:AB:212:GLN:CD	2:AB:212:GLN:C	2.86	0.44
3:AC:90:GLU:O	3:AC:91:LEU:C	2.60	0.44
5:AE:24:ARG:HG2	5:AE:24:ARG:HH11	1.82	0.44
6:AF:3:ARG:C	6:AF:93:SER:OG	2.61	0.44
7:AG:37:ASN:O	7:AG:38:LEU:C	2.61	0.44
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.32	0.44
9:AI:36:TYR:O	9:AI:37:PHE:CD2	2.71	0.44
10:AJ:8:LEU:HD12	10:AJ:8:LEU:N	2.33	0.44
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.48	0.44
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.18	0.44
12:AL:33:ARG:HG2	12:AL:60:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:77:ASN:O	13:AM:81:LEU:HD23	2.18	0.44
18:AR:40:LEU:O	18:AR:42:ARG:N	2.51	0.44
22:AV:1:G:H2'	22:AV:2:C:C6	2.53	0.44
25:AZ:176:LEU:HB2	62:AZ:501:GDP:N7	2.32	0.44
28:B2:6:VAL:CA	28:B2:9:GLN:HB2	2.31	0.44
29:B3:31:LEU:O	36:BA:1158:C:H4'	2.17	0.44
31:B5:21:SER:C	31:B5:23:HIS:H	2.25	0.44
32:B6:11:LEU:HD22	32:B6:12:GLU:N	2.30	0.44
33:B7:36:GLN:C	33:B7:38:GLY:H	2.26	0.44
33:B7:39:ARG:HA	36:BA:459:U:OP1	2.17	0.44
36:BA:1169:G:H2'	36:BA:1170:G:O4'	2.17	0.44
36:BA:1355:G:C6	36:BA:1377:G:N2	2.86	0.44
36:BA:1517:G:H8	36:BA:1517:G:H5'	1.82	0.44
36:BA:1909:C:N4	36:BA:1921:G:H1	2.13	0.44
36:BA:2023:G:O2'	36:BA:2024:G:H5'	2.18	0.44
36:BA:2114:A:C2'	36:BA:2115:G:H5'	2.44	0.44
36:BA:2410:G:H2'	36:BA:2411:A:C8	2.49	0.44
36:BA:2512:C:O5'	36:BA:2512:C:H6	2.01	0.44
36:BA:2590:A:O2'	36:BA:2591:C:H5'	2.18	0.44
36:BA:2764:A:H2'	36:BA:2766:G:C8	2.53	0.44
36:BA:2851:A:H2'	36:BA:2852:G:C5'	2.48	0.44
37:BB:60:C:H2'	37:BB:61:G:C8	2.50	0.44
38:BC:23:ASP:OD1	38:BC:190:ARG:NH2	2.51	0.44
38:BC:87:GLU:HG2	38:BC:94:VAL:HG21	2.00	0.44
38:BC:100:ILE:HG21	38:BC:126:LYS:HB2	1.95	0.44
38:BC:207:THR:H	38:BC:210:ARG:HH12	1.65	0.44
39:BD:73:VAL:HG13	39:BD:120:GLY:CA	2.46	0.44
40:BE:144:ARG:C	40:BE:146:THR:N	2.75	0.44
41:BF:33:LEU:HD21	41:BF:112:MET:SD	2.57	0.44
42:BG:45:GLU:C	42:BG:47:LYS:N	2.71	0.44
42:BG:125:PHE:C	42:BG:127:GLY:H	2.25	0.44
42:BG:125:PHE:C	42:BG:127:GLY:N	2.76	0.44
43:BH:33:LEU:HD12	43:BH:75:ALA:CB	2.48	0.44
43:BH:159:GLU:O	43:BH:160:LYS:C	2.61	0.44
48:BP:35:HIS:HB3	48:BP:36:LYS:H	1.38	0.44
48:BP:47:ASP:OD1	48:BP:50:ARG:HG2	2.17	0.44
49:BQ:113:GLN:O	49:BQ:116:GLU:HB3	2.18	0.44
49:BQ:132:VAL:HG11	58:BZ:81:ARG:CD	2.47	0.44
50:BR:66:VAL:C	50:BR:68:ARG:N	2.71	0.44
51:BS:32:LEU:O	51:BS:62:LYS:HE3	2.18	0.44
51:BS:77:ALA:O	51:BS:80:LEU:N	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.86	0.44
52:BT:70:VAL:HG12	52:BT:71:GLY:O	2.18	0.44
53:BU:22:LYS:HA	53:BU:22:LYS:HD3	1.72	0.44
53:BU:57:PHE:O	53:BU:58:ARG:C	2.60	0.44
53:BU:88:ILE:CB	53:BU:90:VAL:HG23	2.48	0.44
54:BV:52:VAL:O	54:BV:54:GLY:N	2.51	0.44
1:CA:32:A:H1'	1:CA:48:C:N4	2.33	0.44
1:CA:429:U:H1'	1:CA:430:A:H5''	1.99	0.44
1:CA:458:C:N3	1:CA:474:G:N2	2.66	0.44
1:CA:585:G:O2'	1:CA:879:C:H5''	2.17	0.44
1:CA:625:G:H2'	1:CA:626:U:C6	2.53	0.44
1:CA:739:C:C4	1:CA:740:U:C5	3.06	0.44
1:CA:913:A:H1'	1:CA:914:A:O4'	2.17	0.44
1:CA:919:A:O2'	1:CA:1080:A:N6	2.49	0.44
1:CA:963:G:O2'	1:CA:1199:U:H5''	2.18	0.44
1:CA:993:G:N1	1:CA:1046:A:C4	2.86	0.44
1:CA:1057:G:H3'	1:CA:1058:G:C8	2.53	0.44
1:CA:1069:C:C2'	1:CA:1070:U:O5'	2.66	0.44
1:CA:1376:U:H2'	1:CA:1377:A:H8	1.78	0.44
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.99	0.44
1:CA:1409:C:H4'	36:DA:1915:U:O4	2.17	0.44
3:CC:6:HIS:HD2	3:CC:7:PRO:CD	2.31	0.44
4:CD:64:LEU:O	4:CD:65:ARG:C	2.61	0.44
4:CD:79:PHE:CE2	4:CD:207:TYR:CD1	3.06	0.44
4:CD:171:GLY:C	4:CD:173:TRP:H	2.25	0.44
7:CG:13:GLN:O	7:CG:14:PRO:C	2.61	0.44
7:CG:35:LYS:O	7:CG:37:ASN:N	2.51	0.44
15:CO:61:GLY:O	15:CO:62:GLN:C	2.60	0.44
20:CT:20:LEU:C	20:CT:23:ARG:HB3	2.43	0.44
20:CT:53:LEU:O	20:CT:56:MET:N	2.51	0.44
22:CV:55:U:O2'	22:CV:57:G:N7	2.49	0.44
25:CZ:26:THR:O	25:CZ:29:ALA:N	2.47	0.44
27:D1:67:ILE:H	27:D1:68:PRO:HD2	1.74	0.44
28:D2:7:ARG:HH11	28:D2:7:ARG:CG	2.30	0.44
29:D3:12:PRO:CG	29:D3:13:ILE:H	2.28	0.44
30:D4:9:LEU:CB	42:DG:98:ARG:HH12	2.30	0.44
31:D5:3:LYS:HE3	31:D5:3:LYS:CA	2.37	0.44
33:D7:18:PHE:CD2	33:D7:18:PHE:C	2.96	0.44
35:D9:7:VAL:HG13	35:D9:34:GLN:HB3	2.00	0.44
36:DA:94:C:H3'	36:DA:94(A):G:H8	1.79	0.44
36:DA:126:A:C6	36:DA:127:A:C2	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:239:U:H2'	36:DA:240:G:O4'	2.18	0.44
36:DA:250:G:H2'	36:DA:251:A:O4'	2.18	0.44
36:DA:252:G:H2'	36:DA:253:C:H6	1.78	0.44
36:DA:372:G:HO2'	36:DA:373:U:P	2.41	0.44
36:DA:413:C:H2'	36:DA:414:C:C6	2.52	0.44
36:DA:598:G:C4'	48:DP:15:ARG:HB3	2.48	0.44
36:DA:673:C:C2'	36:DA:674:G:H5'	2.47	0.44
36:DA:778:G:C5	36:DA:779:U:C4	3.05	0.44
36:DA:979:G:N2	36:DA:985:C:H42	2.16	0.44
36:DA:1268:A:C8	36:DA:1269:A:C8	3.06	0.44
36:DA:1268:A:N3	36:DA:1269:A:H1'	2.33	0.44
36:DA:1392:A:N7	36:DA:1393:A:C5	2.86	0.44
36:DA:1902:C:C2'	39:DD:244:ARG:HB2	2.47	0.44
36:DA:1908:C:H42	36:DA:1922:G:H1	1.66	0.44
36:DA:2140:C:O2'	36:DA:2141:G:H5'	2.17	0.44
36:DA:2460:U:C5	36:DA:2461:C:C5	3.06	0.44
36:DA:2464:C:O2'	36:DA:2465:C:H6	1.86	0.44
36:DA:2601:C:H2'	36:DA:2603:G:C8	2.53	0.44
36:DA:2710:C:HO2'	36:DA:2711:A:H5'	1.83	0.44
38:DC:58:VAL:HG22	38:DC:201:PRO:HD3	2.00	0.44
39:DD:117:VAL:CG2	39:DD:128:GLY:C	2.91	0.44
39:DD:117:VAL:HG22	39:DD:118:VAL:N	2.33	0.44
41:DF:198:ALA:HA	41:DF:201:VAL:HG12	2.00	0.44
42:DG:34:LEU:HD11	42:DG:100:TRP:CH2	2.51	0.44
42:DG:44:GLY:C	42:DG:46:ALA:H	2.25	0.44
45:DK:18:UNK:O	45:DK:19:UNK:C	2.64	0.44
47:DO:104:ARG:C	47:DO:106:LEU:N	2.73	0.44
50:DR:25:ALA:HB1	50:DR:51:LEU:CD2	2.47	0.44
52:DT:33:LYS:HE2	52:DT:43:GLN:HE21	1.83	0.44
53:DU:14:HIS:HA	53:DU:17:ILE:HD13	1.99	0.44
53:DU:99:ALA:HB2	53:DU:106:PHE:CE1	2.53	0.44
58:DZ:127:LYS:O	58:DZ:127:LYS:HG3	2.17	0.44
1:AA:102:G:C5	1:AA:103:C:C5	3.06	0.43
1:AA:250:A:O4'	1:AA:252:U:C6	2.71	0.43
1:AA:687:A:H4'	1:AA:688:G:O5'	2.18	0.43
1:AA:738:C:H5''	6:AF:69:GLU:HB2	2.00	0.43
1:AA:928:G:N1	1:AA:1390:U:C2	2.86	0.43
1:AA:939:G:H1	1:AA:1344:C:N4	2.14	0.43
1:AA:991:U:OP2	1:AA:991:U:H6	2.01	0.43
1:AA:1004:A:O5'	1:AA:1025:U:C5	2.70	0.43
1:AA:1157:A:HO2'	1:AA:1158:C:P	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1307:U:O5'	1:AA:1307:U:H6	2.01	0.43
1:AA:1492:A:H2	23:AX:23:C:O2	2.00	0.43
2:AB:22:LYS:CE	2:AB:40:HIS:CE1	3.00	0.43
3:AC:95:THR:HG22	3:AC:95:THR:O	2.18	0.43
4:AD:116:GLN:O	4:AD:117:ALA:C	2.61	0.43
8:AH:82:HIS:O	8:AH:83:ILE:HB	2.18	0.43
11:AK:12:ARG:HH21	11:AK:14:VAL:CG1	2.31	0.43
11:AK:33:THR:HG21	11:AK:37:GLY:O	2.18	0.43
11:AK:55:LYS:HB2	11:AK:55:LYS:HE3	1.83	0.43
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.33	0.43
13:AM:74:VAL:O	13:AM:77:ASN:ND2	2.51	0.43
14:AN:25:VAL:CG2	14:AN:38:GLY:O	2.66	0.43
15:AO:39:LEU:C	15:AO:41:GLU:N	2.76	0.43
16:AP:50:LYS:C	16:AP:51:VAL:CG2	2.91	0.43
22:AV:54:U:C2'	22:AV:55:U:H5'	2.48	0.43
22:AW:54:U:H4'	38:BC:54:SER:CB	2.48	0.43
25:AZ:186:PRO:O	25:AZ:187:LYS:CG	2.65	0.43
25:AZ:300:ARG:O	25:AZ:302:GLN:HG3	2.18	0.43
26:B0:55:ARG:C	26:B0:57:PHE:N	2.71	0.43
28:B2:34:GLU:O	28:B2:37:PHE:HB2	2.18	0.43
28:B2:57:ILE:HG22	28:B2:61:LEU:CD1	2.48	0.43
29:B3:50:VAL:O	29:B3:52:HIS:N	2.50	0.43
32:B6:35:GLU:CG	32:B6:51:GLU:HG3	2.47	0.43
36:BA:29:U:OP1	36:BA:583:G:H4'	2.18	0.43
36:BA:223:A:H61	36:BA:374:A:H4'	1.82	0.43
36:BA:598:G:C5'	48:BP:15:ARG:HD3	2.32	0.43
36:BA:877:U:O2'	36:BA:878:A:C5'	2.66	0.43
36:BA:936:C:C2	36:BA:937:U:C5	3.06	0.43
36:BA:1050:A:C2	36:BA:2751:G:C5	3.06	0.43
36:BA:1053:C:H2'	36:BA:1054:A:C8	2.53	0.43
36:BA:1131:G:C6	46:BN:75:TYR:CD2	3.06	0.43
36:BA:1279:G:N2	36:BA:1292:U:C2	2.86	0.43
36:BA:1386:C:C6	36:BA:1386:C:C3'	3.01	0.43
36:BA:1431:U:C4	36:BA:1432:C:C4	3.06	0.43
36:BA:1466:G:H5'	36:BA:1467:C:OP1	2.18	0.43
36:BA:1600:C:H2'	36:BA:1601:G:H8	1.82	0.43
36:BA:1678:G:N2	36:BA:1989:G:H22	2.16	0.43
36:BA:1884:A:H2'	36:BA:1885:A:H5''	2.00	0.43
36:BA:2173:A:N3	36:BA:2173:A:C3'	2.79	0.43
36:BA:2533:A:H2'	36:BA:2534:A:C5'	2.48	0.43
36:BA:2849:U:H4'	36:BA:2868:A:C2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:13:A:C2	37:BB:70:C:O4'	2.71	0.43
39:BD:128:GLY:N	39:BD:193:VAL:HG13	2.33	0.43
39:BD:159:ALA:HB1	39:BD:201:HIS:HB3	2.00	0.43
42:BG:57:ALA:CB	42:BG:90:LEU:HD21	2.46	0.43
47:BO:50:GLY:O	47:BO:53:LYS:NZ	2.42	0.43
48:BP:63:PRO:O	48:BP:65:ARG:N	2.51	0.43
48:BP:84:ASN:O	48:BP:86:LYS:N	2.50	0.43
49:BQ:60:ARG:HA	58:BZ:178:GLU:H	1.82	0.43
49:BQ:141:GLN:OE1	58:BZ:72:ARG:NE	2.51	0.43
51:BS:30:ARG:NH1	51:BS:35:ILE:HB	2.33	0.43
52:BT:111:ARG:HG3	52:BT:111:ARG:O	2.17	0.43
53:BU:10:ARG:CA	53:BU:13:LYS:HG2	2.47	0.43
56:BX:43:VAL:O	56:BX:43:VAL:HG12	2.18	0.43
57:BY:64:GLU:O	57:BY:65:ALA:HB2	2.18	0.43
1:CA:53:A:N1	1:CA:359:U:O2	2.51	0.43
1:CA:78:G:H1	1:CA:91:C:N4	2.15	0.43
1:CA:262:A:N1	1:CA:263:A:C2	2.86	0.43
1:CA:428:G:O2'	1:CA:429:U:P	2.76	0.43
1:CA:830:G:H5''	2:CB:24:TRP:HE1	1.83	0.43
1:CA:876:G:H2'	1:CA:877:C:H6	1.81	0.43
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.18	0.43
1:CA:1202:G:N3	14:CN:42:ILE:HG21	2.33	0.43
1:CA:1206:G:C6	1:CA:1207:G:C5	3.06	0.43
1:CA:1246:C:O2'	1:CA:1247:U:H5'	2.17	0.43
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.31	0.43
2:CB:157:ARG:O	2:CB:158:LEU:C	2.61	0.43
3:CC:48:TYR:OH	3:CC:122:GLU:HG3	2.17	0.43
3:CC:135:LYS:O	3:CC:136:GLN:C	2.61	0.43
5:CE:10:MET:HG2	5:CE:10:MET:O	2.18	0.43
6:CF:6:VAL:HG22	6:CF:90:VAL:HG23	1.99	0.43
6:CF:37:VAL:O	6:CF:38:GLU:CG	2.66	0.43
7:CG:69:VAL:N	7:CG:138:LYS:HZ2	2.16	0.43
7:CG:99:LEU:HD22	7:CG:103:TRP:CZ2	2.53	0.43
7:CG:107:ALA:O	7:CG:110:GLN:N	2.51	0.43
8:CH:65:TYR:N	8:CH:65:TYR:CD1	2.86	0.43
8:CH:97:VAL:CG1	8:CH:98:LYS:N	2.81	0.43
9:CI:55:ALA:C	9:CI:57:GLY:H	2.25	0.43
13:CM:10:PRO:O	13:CM:11:ARG:CB	2.51	0.43
14:CN:5:ALA:O	14:CN:6:LEU:C	2.61	0.43
16:CP:59:TRP:O	16:CP:64:ALA:CB	2.66	0.43
17:CQ:64:PRO:HG3	17:CQ:70:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CV:20:U:C3'	22:CV:21:A:C5'	2.89	0.43
22:CV:49:C:O2'	22:CV:50:U:P	2.76	0.43
24:CY:48:C:H5'	24:CY:50:G:OP2	2.18	0.43
25:CZ:163:PHE:CD1	25:CZ:164:PRO:HD2	2.53	0.43
25:CZ:331:HIS:CD2	25:CZ:331:HIS:H	2.36	0.43
25:CZ:363:MET:HB3	25:CZ:364:PRO:HD2	1.99	0.43
26:D0:2:ALA:HB3	36:DA:2602:A:N1	2.33	0.43
27:D1:41:ARG:NH2	36:DA:1365:A:OP1	2.49	0.43
28:D2:51:ARG:HG3	28:D2:52:ASP:N	2.33	0.43
36:DA:150:C:O5'	36:DA:150:C:H6	2.00	0.43
36:DA:178:G:O2'	36:DA:179:G:H5'	2.18	0.43
36:DA:601:C:O5'	36:DA:601:C:H6	2.00	0.43
36:DA:654:A:H4'	36:DA:654(A):G:O5'	2.18	0.43
36:DA:681:G:H1	36:DA:796:C:H42	1.66	0.43
36:DA:699:A:C2'	36:DA:700:G:H5'	2.48	0.43
36:DA:1412:A:O2'	36:DA:1413:G:H5'	2.18	0.43
36:DA:1478:G:N2	36:DA:1479:G:C4	2.86	0.43
36:DA:1853:A:N6	36:DA:1888:G:H2'	2.33	0.43
36:DA:2187:G:N7	36:DA:2188:C:C5	2.86	0.43
36:DA:2283:C:O2'	36:DA:2284:C:H5'	2.17	0.43
36:DA:2565:A:H2'	36:DA:2566:A:O4'	2.18	0.43
36:DA:2776:A:C4'	36:DA:2778:A:H5''	2.48	0.43
36:DA:2814:C:C6	36:DA:2815:C:H5	2.36	0.43
37:DB:44:G:H1'	37:DB:47:C:N4	2.33	0.43
37:DB:60:C:H2'	37:DB:61:G:C8	2.49	0.43
38:DC:1:PRO:O	38:DC:3:HIS:N	2.51	0.43
38:DC:23:ASP:OD1	38:DC:190:ARG:NH2	2.51	0.43
39:DD:102:LYS:C	39:DD:103:ARG:HG2	2.43	0.43
39:DD:211:ARG:HA	39:DD:214:TRP:CD2	2.53	0.43
40:DE:37:ARG:O	40:DE:45:THR:HA	2.17	0.43
40:DE:60:ASN:O	40:DE:61:ARG:C	2.60	0.43
42:DG:121:ASN:ND2	42:DG:124:SER:CB	2.81	0.43
46:DN:10:GLU:CD	46:DN:11:PRO:HD2	2.43	0.43
46:DN:62:VAL:HG21	46:DN:66:LYS:HB2	2.00	0.43
46:DN:103:VAL:O	46:DN:105:GLY:N	2.51	0.43
48:DP:7:ARG:CB	48:DP:8:PRO:CD	2.93	0.43
48:DP:16:ARG:HH11	48:DP:16:ARG:CA	2.31	0.43
48:DP:48:PRO:O	48:DP:49:ARG:O	2.35	0.43
49:DQ:24:GLY:O	49:DQ:26:TYR:O	2.36	0.43
50:DR:42:LYS:O	50:DR:45:ARG:CB	2.66	0.43
52:DT:100:TYR:CD2	52:DT:103:ARG:NH2	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:106:PHE:O	53:DU:107:ALA:C	2.61	0.43
54:DV:58:VAL:HB	54:DV:97:LYS:HB2	2.00	0.43
56:DX:12:VAL:HG12	56:DX:27:THR:CA	2.47	0.43
57:DY:16:ALA:O	57:DY:21:LYS:HG3	2.18	0.43
1:AA:100:C:H2'	1:AA:101:A:H8	1.78	0.43
1:AA:232:G:H2'	1:AA:233:C:O4'	2.18	0.43
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.43
1:AA:353:A:C2'	1:AA:354:G:OP2	2.66	0.43
1:AA:756:C:O2'	1:AA:878:G:N2	2.48	0.43
1:AA:925:G:O2'	1:AA:927:G:OP1	2.35	0.43
1:AA:993:G:N3	1:AA:993:G:C2'	2.78	0.43
1:AA:1010:G:H2'	1:AA:1011:G:C8	2.52	0.43
1:AA:1056:U:OP1	3:AC:163:ALA:HB2	2.18	0.43
1:AA:1206:G:C2'	1:AA:1207:G:H5'	2.47	0.43
1:AA:1348:U:O2'	1:AA:1349:A:O5'	2.36	0.43
1:AA:1421:G:C6	1:AA:1422:G:C5	3.06	0.43
3:AC:180:ALA:O	3:AC:181:ASN:HB3	2.18	0.43
4:AD:93:PHE:O	4:AD:94:LEU:C	2.59	0.43
8:AH:103:VAL:HG21	8:AH:109:ILE:O	2.17	0.43
8:AH:120:THR:C	8:AH:122:ARG:N	2.72	0.43
11:AK:93:GLN:NE2	11:AK:96:ARG:NH2	2.66	0.43
12:AL:98:TYR:N	12:AL:98:TYR:HD1	2.16	0.43
13:AM:52:GLU:HA	13:AM:55:ARG:CB	2.38	0.43
14:AN:4:LYS:O	14:AN:6:LEU:N	2.51	0.43
16:AP:50:LYS:O	16:AP:51:VAL:CG2	2.66	0.43
16:AP:59:TRP:O	16:AP:64:ALA:CB	2.66	0.43
16:AP:66:PRO:HD2	16:AP:71:ARG:NH1	2.33	0.43
17:AQ:5:VAL:HG22	17:AQ:60:ILE:HA	2.00	0.43
21:AU:7:ARG:O	21:AU:21:TYR:CD2	2.71	0.43
25:AZ:355:LEU:HB3	25:AZ:359:VAL:CB	2.46	0.43
28:B2:38:GLN:OE1	28:B2:44:LEU:CD2	2.65	0.43
29:B3:18:ASP:HB2	36:BA:850:C:C5'	2.48	0.43
35:B9:4:ARG:O	35:B9:36:GLN:HA	2.18	0.43
36:BA:307:G:H21	36:BA:330:A:H62	1.66	0.43
36:BA:329:G:P	57:BY:71:LYS:NZ	2.91	0.43
36:BA:360:G:C4	36:BA:361:G:C8	3.06	0.43
36:BA:425:G:C4	36:BA:426:C:C5	3.06	0.43
36:BA:440:G:H21	41:BF:46:ARG:NH2	2.16	0.43
36:BA:654:A:H4'	36:BA:654(A):G:C4'	2.48	0.43
36:BA:662:G:H4'	48:BP:19:VAL:O	2.18	0.43
36:BA:833:U:H6	36:BA:833:U:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:859:G:C2	36:BA:2268:A:C2	3.07	0.43
36:BA:896:A:H5'	58:BZ:146:ILE:HD12	1.99	0.43
36:BA:1166:C:H1'	36:BA:1184:G:N2	2.34	0.43
36:BA:1257:C:H4'	41:BF:83:PHE:CD2	2.52	0.43
36:BA:1492:G:N3	36:BA:1499:C:O2	2.51	0.43
36:BA:1494:A:N3	36:BA:1494:A:H5'	2.33	0.43
36:BA:1664:A:H3'	36:BA:1665:A:C8	2.54	0.43
36:BA:1718:G:H5'	36:BA:1718:G:C8	2.47	0.43
36:BA:1750:G:N3	36:BA:2860:A:H2	2.16	0.43
36:BA:1789:A:C5	36:BA:1790:C:C5	3.07	0.43
36:BA:1856:G:H1	36:BA:1886:C:H42	1.67	0.43
36:BA:2023:G:P	36:BA:2023:G:H8	2.40	0.43
36:BA:2052:G:N1	36:BA:2053:G:N7	2.66	0.43
36:BA:2071:A:H8	36:BA:2071:A:OP2	2.01	0.43
36:BA:2123:G:N1	36:BA:2175:C:N3	2.66	0.43
36:BA:2414:G:H21	48:BP:67:MET:CE	2.32	0.43
36:BA:2458:G:C4	36:BA:2490:G:C2	3.06	0.43
36:BA:2698:U:H2'	36:BA:2699:C:C6	2.53	0.43
36:BA:2838:G:H2'	36:BA:2839:G:C8	2.53	0.43
38:BC:100:ILE:HD13	38:BC:126:LYS:HB2	1.99	0.43
39:BD:34:VAL:CG2	39:BD:35:LYS:H	2.23	0.43
39:BD:147:LEU:HD21	39:BD:183:ARG:NH1	2.33	0.43
40:BE:9:VAL:O	40:BE:9:VAL:CG2	2.65	0.43
40:BE:167:VAL:O	40:BE:167:VAL:HG22	2.18	0.43
41:BF:111:ALA:O	41:BF:114:VAL:HB	2.19	0.43
42:BG:21:ARG:NE	42:BG:22:ARG:HA	2.33	0.43
43:BH:61:HIS:O	43:BH:64:LEU:N	2.50	0.43
47:BO:1:MET:HG3	47:BO:67:LYS:HG2	1.99	0.43
48:BP:7:ARG:O	48:BP:10:PRO:HD2	2.18	0.43
48:BP:16:ARG:HG3	48:BP:17:LYS:H	1.83	0.43
51:BS:16:ASN:O	51:BS:18:ILE:N	2.51	0.43
51:BS:36:TYR:CD1	51:BS:36:TYR:N	2.84	0.43
52:BT:27:THR:HA	52:BT:88:ILE:H	1.83	0.43
52:BT:91:ARG:HA	52:BT:117:ASP:H	1.83	0.43
55:BW:37:ARG:CG	55:BW:37:ARG:NH1	2.81	0.43
55:BW:89:ALA:O	55:BW:90:ARG:C	2.61	0.43
58:BZ:50:GLN:O	58:BZ:52:SER:N	2.51	0.43
58:BZ:72:ARG:O	58:BZ:73:GLN:HB2	2.18	0.43
58:BZ:145:GLU:OE1	58:BZ:145:GLU:HA	2.17	0.43
1:CA:131:C:O2	1:CA:262:A:H2	2.01	0.43
1:CA:258:G:H2'	1:CA:259:G:H8	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:581:G:C6	1:CA:758:G:C5	3.06	0.43
1:CA:745:C:H5''	1:CA:851:G:H1'	1.99	0.43
1:CA:790:A:C6	1:CA:791:G:C6	3.06	0.43
1:CA:941:G:N2	1:CA:942:G:H1'	2.33	0.43
1:CA:972:C:H4'	10:CJ:57:LYS:CG	2.40	0.43
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.82	0.43
1:CA:1313:U:C4	1:CA:1314:C:C4	3.06	0.43
1:CA:1507:A:C5	1:CA:1530:G:C2	3.06	0.43
2:CB:14:GLY:O	2:CB:15:VAL:HG22	2.18	0.43
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.83	0.43
4:CD:3:ARG:HD3	4:CD:5:ILE:HG13	2.00	0.43
4:CD:23:GLY:O	4:CD:27:TYR:HB2	2.18	0.43
4:CD:60:GLU:HB3	4:CD:203:VAL:HG22	2.00	0.43
4:CD:79:PHE:CD2	4:CD:207:TYR:HD1	2.36	0.43
4:CD:175:SER:O	4:CD:176:LEU:HB2	2.18	0.43
8:CH:4:ASP:OD2	8:CH:85:ARG:HD3	2.18	0.43
8:CH:20:TYR:CE2	8:CH:75:ARG:HD2	2.48	0.43
9:CI:114:TYR:C	9:CI:116:LYS:H	2.26	0.43
11:CK:27:ASN:HA	11:CK:56:GLY:CA	2.43	0.43
11:CK:66:LEU:O	11:CK:69:ALA:CB	2.60	0.43
11:CK:127:LYS:C	11:CK:129:SER:N	2.76	0.43
12:CL:8:ASN:O	12:CL:12:ARG:HD3	2.17	0.43
13:CM:28:ALA:C	13:CM:30:ALA:H	2.26	0.43
13:CM:45:VAL:HA	13:CM:48:LEU:CD1	2.38	0.43
15:CO:34:LEU:HG	15:CO:35:ARG:N	2.32	0.43
16:CP:58:TYR:C	16:CP:58:TYR:HD1	2.26	0.43
20:CT:12:ALA:C	20:CT:14:LYS:N	2.73	0.43
22:CW:9:A:C2	22:CW:44:G:N1	2.87	0.43
25:CZ:159:ASN:C	25:CZ:161:TYR:N	2.76	0.43
25:CZ:310:ILE:HD11	25:CZ:381:GLU:CB	2.47	0.43
26:D0:77:ARG:C	26:D0:78:TYR:HD1	2.24	0.43
27:D1:89:GLU:C	27:D1:91:LYS:N	2.73	0.43
31:D5:59:GLU:O	31:D5:59:GLU:HG3	2.18	0.43
34:D8:7:HIS:CD2	48:DP:50:ARG:HD3	2.52	0.43
35:D9:26:ILE:CG2	35:D9:27:CYS:N	2.81	0.43
36:DA:64:A:H2'	36:DA:65:C:H6	1.83	0.43
36:DA:244:A:H3'	36:DA:245:G:C5'	2.49	0.43
36:DA:292:C:C2'	36:DA:293:U:H5'	2.49	0.43
36:DA:321:G:C4	41:DF:165:ARG:HD3	2.53	0.43
36:DA:759:G:H8	36:DA:759:G:O5'	2.01	0.43
36:DA:811:U:C6	48:DP:24:GLY:HA3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1186:G:H2'	36:DA:1187:G:H5'	2.00	0.43
36:DA:1206:G:C2	36:DA:1207:C:C6	3.07	0.43
36:DA:1423:G:H1	36:DA:1575:C:H42	1.65	0.43
36:DA:1432:C:N3	36:DA:1561:G:O6	2.51	0.43
36:DA:1657:C:H2'	36:DA:1658:C:O4'	2.18	0.43
36:DA:1717:G:H2'	36:DA:1718:G:H5''	2.00	0.43
36:DA:1755:A:O2'	36:DA:1756:G:H5'	2.18	0.43
36:DA:1773:A:O2'	36:DA:1774:C:H5'	2.18	0.43
36:DA:2298:A:H62	36:DA:2318:G:H8	1.66	0.43
36:DA:2331:G:O2'	36:DA:2332:U:H5'	2.18	0.43
36:DA:2557:G:C2	36:DA:2558:C:C2	3.06	0.43
36:DA:2612:C:C5	36:DA:2613:U:H5	2.36	0.43
36:DA:2667:C:H2'	36:DA:2668:G:H8	1.83	0.43
36:DA:2758:A:C2	36:DA:2759:G:C1'	3.01	0.43
38:DC:43:VAL:O	38:DC:43:VAL:HG12	2.17	0.43
38:DC:113:VAL:HG11	38:DC:131:LEU:CD1	2.48	0.43
38:DC:146:GLY:O	38:DC:149:ILE:HB	2.18	0.43
39:DD:26:LYS:O	39:DD:27:THR:HG22	2.17	0.43
39:DD:28:GLU:N	39:DD:29:PRO:HD2	2.21	0.43
40:DE:51:PHE:CD1	40:DE:51:PHE:C	2.96	0.43
40:DE:194:GLY:O	40:DE:196:VAL:HG13	2.18	0.43
41:DF:3:GLU:O	41:DF:19:GLU:CB	2.62	0.43
43:DH:117:PRO:HB3	43:DH:123:PHE:CE1	2.53	0.43
43:DH:144:VAL:O	43:DH:148:ILE:HG12	2.18	0.43
46:DN:55:VAL:HG21	46:DN:127:ASP:H	1.83	0.43
48:DP:23:PRO:C	48:DP:33:ARG:CZ	2.91	0.43
48:DP:83:VAL:HG12	48:DP:113:LYS:O	2.18	0.43
49:DQ:35:VAL:HG23	49:DQ:101:ARG:O	2.18	0.43
49:DQ:140:ALA:HB1	58:DZ:99:TYR:CG	2.53	0.43
49:DQ:141:GLN:HB2	58:DZ:99:TYR:CD2	2.53	0.43
51:DS:11:LYS:N	51:DS:11:LYS:CD	2.80	0.43
51:DS:39:ILE:O	51:DS:40:ILE:HG23	2.17	0.43
53:DU:91:ASP:O	53:DU:92:ARG:HB3	2.17	0.43
53:DU:109:LEU:O	53:DU:113:ALA:N	2.52	0.43
55:DW:28:SER:OG	55:DW:31:GLU:HG3	2.19	0.43
55:DW:89:ALA:O	55:DW:90:ARG:C	2.61	0.43
1:AA:44:G:C2	1:AA:45:U:H1'	2.53	0.43
1:AA:72:C:O2'	1:AA:73:G:H5'	2.18	0.43
1:AA:471:G:H3'	1:AA:471:G:OP1	2.18	0.43
1:AA:688:G:H5'	11:AK:46:GLY:C	2.43	0.43
1:AA:723:U:O2	1:AA:723:U:C2'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1014:A:H2	1:AA:1219:U:H1'	1.83	0.43
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.82	0.43
1:AA:1155:G:C4	1:AA:1156:G:C8	3.06	0.43
1:AA:1311:G:C6	1:AA:1312:G:C5	3.06	0.43
1:AA:1430:C:C2	1:AA:1471:G:C2	3.05	0.43
1:AA:1468:A:N3	1:AA:1469:G:H1'	2.34	0.43
3:AC:3:ASN:O	3:AC:4:LYS:HB2	2.19	0.43
3:AC:55:VAL:O	3:AC:55:VAL:HG12	2.18	0.43
3:AC:80:GLY:O	3:AC:82:GLU:OE2	2.35	0.43
4:AD:170:VAL:CG1	4:AD:171:GLY:H	2.28	0.43
4:AD:175:SER:O	4:AD:176:LEU:HB2	2.17	0.43
5:AE:67:VAL:CG2	5:AE:68:GLU:N	2.81	0.43
6:AF:62:TRP:CE2	18:AR:35:ARG:CZ	3.01	0.43
7:AG:113:GLU:HG3	7:AG:119:ARG:HG2	2.01	0.43
8:AH:56:LYS:HG3	8:AH:56:LYS:H	1.52	0.43
11:AK:82:VAL:CG1	11:AK:108:ILE:HA	2.45	0.43
11:AK:111:ASP:CG	18:AR:84:LYS:HD2	2.43	0.43
15:AO:50:HIS:O	15:AO:53:HIS:CB	2.66	0.43
22:AW:30:G:O2'	22:AW:31:A:H5'	2.18	0.43
22:AW:35:A:N1	23:AX:17:U:O4	2.51	0.43
22:AW:70:G:H8	22:AW:70:G:H5'	1.82	0.43
24:AY:20:H2U:HN3	36:BA:1066:U:H3	1.66	0.43
25:AZ:35:ALA:O	25:AZ:39:ASN:HB2	2.18	0.43
25:AZ:138:VAL:CG2	25:AZ:174:SER:N	2.81	0.43
26:B0:2:ALA:HB3	36:BA:2602:A:N1	2.32	0.43
26:B0:78:TYR:CD1	26:B0:78:TYR:N	2.86	0.43
26:B0:82:ARG:HA	26:B0:83:PRO:HD3	1.86	0.43
27:B1:80:LEU:CD2	27:B1:81:LYS:N	2.81	0.43
28:B2:10:LEU:O	28:B2:14:ARG:HB2	2.19	0.43
29:B3:15:TYR:HB3	29:B3:16:PRO:CD	2.49	0.43
30:B4:12:ALA:CB	30:B4:29:PRO:HA	2.47	0.43
32:B6:36:LEU:O	32:B6:37:ARG:HB2	2.17	0.43
33:B7:18:PHE:C	33:B7:18:PHE:CD2	2.95	0.43
36:BA:102:G:H4'	36:BA:102:G:OP1	2.19	0.43
36:BA:178:G:C2	36:BA:179:G:C8	3.06	0.43
36:BA:322:A:OP1	41:BF:168:ARG:HG2	2.18	0.43
36:BA:664:C:H4'	36:BA:941:A:P	2.58	0.43
36:BA:728:G:C6	36:BA:730:C:C4	3.06	0.43
36:BA:773:U:H5'	39:BD:47:GLY:HA2	2.00	0.43
36:BA:803:U:H2'	36:BA:804:A:C5'	2.45	0.43
36:BA:827:U:C2'	36:BA:2068:U:C2	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:954:G:H5''	49:BQ:13:GLN:CG	2.48	0.43
36:BA:976:C:H2'	36:BA:977:G:C8	2.53	0.43
36:BA:1028:A:N3	36:BA:2486:G:O2'	2.38	0.43
36:BA:1628:G:O2'	36:BA:1629:U:H5'	2.19	0.43
36:BA:1717:G:H2'	36:BA:1718:G:C5'	2.48	0.43
36:BA:2175:C:N3	36:BA:2176:A:N1	2.66	0.43
36:BA:2388:A:H5'	36:BA:2389:G:OP2	2.18	0.43
36:BA:2483:C:O2	36:BA:2483:C:H2'	2.17	0.43
36:BA:2579:C:H4'	40:BE:134:ILE:HG12	1.99	0.43
36:BA:2599:G:H5''	36:BA:2599:G:C8	2.53	0.43
39:BD:65:ILE:HG22	39:BD:104:TYR:CB	2.48	0.43
39:BD:245:PRO:O	39:BD:246:PRO:O	2.37	0.43
40:BE:104:VAL:O	40:BE:166:THR:HA	2.19	0.43
41:BF:107:LYS:C	41:BF:110:LEU:H	2.26	0.43
42:BG:21:ARG:O	42:BG:24:GLY:N	2.46	0.43
42:BG:23:PHE:CE1	42:BG:168:GLU:HG2	2.54	0.43
42:BG:130:ASN:OD1	42:BG:161:THR:O	2.36	0.43
47:BO:11:ALA:HB1	47:BO:98:VAL:CG2	2.37	0.43
47:BO:103:ALA:O	47:BO:106:LEU:HG	2.18	0.43
48:BP:34:GLY:O	48:BP:35:HIS:CB	2.66	0.43
48:BP:59:LEU:C	48:BP:59:LEU:HD23	2.43	0.43
48:BP:80:TYR:N	48:BP:80:TYR:CD2	2.87	0.43
48:BP:114:ILE:N	48:BP:129:ALA:O	2.51	0.43
48:BP:125:VAL:O	48:BP:125:VAL:HG13	2.18	0.43
52:BT:15:VAL:CG2	52:BT:16:ARG:N	2.82	0.43
52:BT:99:LEU:O	52:BT:101:PHE:N	2.51	0.43
53:BU:106:PHE:O	53:BU:107:ALA:C	2.59	0.43
56:BX:18:TYR:O	56:BX:19:ALA:C	2.61	0.43
56:BX:24:GLY:O	56:BX:82:GLN:NE2	2.51	0.43
1:CA:250:A:O4'	1:CA:252:U:C6	2.71	0.43
1:CA:266:G:C5'	1:CA:267:C:C5	3.01	0.43
1:CA:355:C:N4	1:CA:356:A:H62	2.16	0.43
1:CA:490:G:N1	1:CA:491:G:C5	2.86	0.43
1:CA:529:G:O6	12:CL:49:ASN:CB	2.66	0.43
1:CA:950:U:H2'	1:CA:951:G:H8	1.83	0.43
1:CA:1016:A:C2'	1:CA:1017:G:H5'	2.48	0.43
1:CA:1065:U:O5'	1:CA:1190:G:N2	2.50	0.43
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.18	0.43
1:CA:1387:G:C5	1:CA:1388:C:C5	3.06	0.43
2:CB:8:LYS:O	2:CB:12:GLU:HG3	2.18	0.43
2:CB:19:HIS:O	2:CB:20:GLU:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:92:TYR:CD1	2:CB:151:GLY:HA3	2.52	0.43
6:CF:1:MET:H1	6:CF:68:PRO:HA	1.84	0.43
7:CG:113:GLU:HG3	7:CG:119:ARG:HG2	2.00	0.43
8:CH:110:ALA:HB3	8:CH:121:ASP:HB3	2.01	0.43
12:CL:126:LYS:C	12:CL:128:ALA:N	2.76	0.43
15:CO:25:THR:O	15:CO:26:GLU:C	2.60	0.43
16:CP:50:LYS:C	16:CP:51:VAL:HG23	2.42	0.43
18:CR:37:VAL:O	18:CR:41:LYS:HB2	2.18	0.43
21:CU:16:GLY:O	21:CU:17:THR:CG2	2.57	0.43
22:CV:5:G:H2'	22:CV:6:G:O4'	2.18	0.43
22:CW:75:C:OP1	27:D1:30:VAL:HG21	2.17	0.43
25:CZ:155:ARG:HB3	25:CZ:165:GLY:O	2.18	0.43
25:CZ:298:VAL:HA	25:CZ:302:GLN:OE1	2.17	0.43
27:D1:45:ASN:HB3	27:D1:64:ALA:CB	2.45	0.43
27:D1:45:ASN:CB	36:DA:397:G:H5''	2.49	0.43
28:D2:32:LEU:HD23	28:D2:32:LEU:C	2.43	0.43
28:D2:43:GLN:O	28:D2:44:LEU:HB2	2.18	0.43
30:D4:12:ALA:CB	30:D4:29:PRO:HA	2.48	0.43
32:D6:42:TRP:HA	32:D6:42:TRP:HE3	1.83	0.43
36:DA:146:G:C2'	36:DA:147:U:H5'	2.48	0.43
36:DA:321:G:OP2	41:DF:135:LYS:HA	2.18	0.43
36:DA:370:G:H2'	36:DA:423:A:C8	2.52	0.43
36:DA:530:G:OP2	36:DA:530:G:H2'	2.19	0.43
36:DA:614(C):A:H4'	36:DA:615:G:OP1	2.18	0.43
36:DA:937:U:H2'	36:DA:938:G:C8	2.53	0.43
36:DA:942:G:H2'	36:DA:943:U:O4'	2.19	0.43
36:DA:1277:G:H2'	36:DA:1278:A:O4'	2.17	0.43
36:DA:1375:C:H2'	36:DA:1376:C:O4'	2.19	0.43
36:DA:1386:C:H3'	36:DA:1386:C:C6	2.50	0.43
36:DA:1407:C:H3'	36:DA:1408:C:C6	2.53	0.43
36:DA:1466:G:H5'	36:DA:1467:C:OP1	2.18	0.43
36:DA:1518:U:H6	36:DA:1518:U:O5'	2.01	0.43
36:DA:1548:C:H2'	36:DA:1549:C:C6	2.53	0.43
36:DA:1614:A:N6	55:DW:87:PRO:HA	2.33	0.43
36:DA:1621:U:H5''	36:DA:1622:G:OP1	2.18	0.43
36:DA:2156:G:N2	36:DA:2157:G:H21	2.16	0.43
36:DA:2228:G:C5	36:DA:2229:C:C4	3.06	0.43
36:DA:2540:C:C2'	36:DA:2541:A:H5'	2.48	0.43
36:DA:2640:G:N1	36:DA:2775:A:C2	2.86	0.43
38:DC:61:THR:O	38:DC:163:PHE:HE2	2.01	0.43
38:DC:140:PRO:HG2	38:DC:141:LYS:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DC:166:ASP:CG	38:DC:168:THR:H	2.25	0.43
39:DD:65:ILE:HG22	39:DD:104:TYR:HB3	2.00	0.43
40:DE:68:ALA:O	40:DE:70:ALA:N	2.51	0.43
40:DE:93:VAL:CG1	40:DE:175:VAL:HG23	2.49	0.43
41:DF:160:ASN:HB3	41:DF:163:VAL:CB	2.40	0.43
42:DG:51:ARG:HD3	42:DG:53:LEU:CD2	2.48	0.43
42:DG:93:THR:HG22	42:DG:94:LEU:H	1.84	0.43
42:DG:120:LEU:O	42:DG:121:ASN:C	2.61	0.43
43:DH:37:VAL:HG11	43:DH:68:THR:CG2	2.48	0.43
43:DH:40:GLU:O	43:DH:41:MET:CB	2.67	0.43
43:DH:156:ALA:O	43:DH:157:TYR:C	2.60	0.43
46:DN:38:HIS:O	53:DU:67:ALA:O	2.36	0.43
46:DN:111:PRO:HA	46:DN:114:ARG:CZ	2.48	0.43
48:DP:96:THR:H	48:DP:99:LEU:CD2	2.30	0.43
49:DQ:1:MET:HB3	49:DQ:2:LEU:H	1.60	0.43
49:DQ:34:LEU:HD11	49:DQ:129:THR:CB	2.38	0.43
49:DQ:35:VAL:CG2	49:DQ:36:ALA:N	2.82	0.43
49:DQ:59:ARG:HD2	49:DQ:59:ARG:O	2.18	0.43
49:DQ:138:ASP:C	49:DQ:139:GLU:CD	2.86	0.43
50:DR:22:ARG:O	50:DR:26:LYS:HB2	2.17	0.43
51:DS:32:LEU:O	51:DS:62:LYS:HE3	2.19	0.43
53:DU:31:SER:O	53:DU:32:PHE:C	2.62	0.43
53:DU:57:PHE:O	53:DU:59:ARG:N	2.52	0.43
55:DW:62:HIS:O	55:DW:63:ASP:O	2.37	0.43
56:DX:18:TYR:C	56:DX:20:GLY:N	2.75	0.43
57:DY:12:THR:OG1	57:DY:26:LYS:HA	2.18	0.43
57:DY:29:GLU:OE2	57:DY:38:ILE:HG21	2.19	0.43
57:DY:81:LYS:CG	57:DY:96:ILE:HB	2.48	0.43
1:AA:70:G:H2'	1:AA:71:C:H5'	2.01	0.43
1:AA:279:A:H4'	1:AA:281:G:C8	2.54	0.43
1:AA:284:G:H2'	1:AA:285:G:H8	1.82	0.43
1:AA:404:U:H2'	1:AA:405:U:H6	1.83	0.43
1:AA:637:G:O2'	1:AA:638:G:H5'	2.18	0.43
1:AA:1470:G:C4	1:AA:1471:G:N7	2.87	0.43
2:AB:8:LYS:NZ	2:AB:217:ARG:CZ	2.81	0.43
2:AB:54:THR:O	2:AB:57:PHE:N	2.51	0.43
2:AB:61:LEU:HA	2:AB:64:ARG:HE	1.76	0.43
2:AB:142:LEU:O	2:AB:146:GLN:N	2.47	0.43
4:AD:11:LEU:C	4:AD:13:ARG:N	2.69	0.43
4:AD:104:VAL:HA	4:AD:107:ARG:HB2	2.01	0.43
6:AF:39:LYS:HB2	6:AF:64:GLN:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:19:VAL:O	8:AH:21:LYS:N	2.52	0.43
9:AI:20:ARG:O	9:AI:21:PRO:C	2.61	0.43
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.33	0.43
12:AL:62:SER:O	12:AL:64:TYR:CD1	2.72	0.43
13:AM:91:ARG:O	13:AM:92:HIS:C	2.57	0.43
16:AP:16:HIS:O	16:AP:17:TYR:O	2.36	0.43
17:AQ:88:TYR:OH	17:AQ:92:ARG:CZ	2.67	0.43
20:AT:61:SER:OG	20:AT:65:LYS:HE3	2.18	0.43
22:AW:10:G:C2'	22:AW:11:C:H5'	2.49	0.43
24:AY:37:YG:H142	24:AY:38:A:C2	2.54	0.43
25:AZ:143:ASP:OD2	25:AZ:144:PRO:HD2	2.18	0.43
25:AZ:194:GLU:O	25:AZ:198:LYS:HG3	2.17	0.43
25:AZ:298:VAL:HA	25:AZ:302:GLN:OE1	2.17	0.43
25:AZ:361:MET:HE3	25:AZ:363:MET:HG2	2.01	0.43
25:AZ:386:PHE:CD2	25:AZ:386:PHE:C	2.95	0.43
26:B0:23:VAL:N	26:B0:38:VAL:HG13	2.33	0.43
27:B1:58:ILE:HD13	27:B1:60:PHE:HE2	1.82	0.43
30:B4:13:ARG:HG3	30:B4:13:ARG:O	2.19	0.43
31:B5:34:PRO:O	31:B5:35:GLU:CG	2.62	0.43
32:B6:6:ARG:C	32:B6:8:LYS:N	2.75	0.43
33:B7:4:THR:HB	36:BA:788:A:H1'	2.00	0.43
36:BA:250:G:OP1	36:BA:2394:C:H4'	2.18	0.43
36:BA:260:G:C6	36:BA:261:G:N7	2.87	0.43
36:BA:587:C:O2'	36:BA:588:U:P	2.76	0.43
36:BA:628:G:O2'	36:BA:629:G:H5''	2.18	0.43
36:BA:944:G:H22	48:BP:38:GLN:HE22	1.65	0.43
36:BA:1041:C:C2'	36:BA:1042:G:H5'	2.49	0.43
36:BA:1313:U:H3'	36:BA:1314:C:H5'	1.99	0.43
36:BA:1670:C:H2'	36:BA:1671:U:O4'	2.18	0.43
36:BA:1708:C:H2'	36:BA:1709:U:C5	2.53	0.43
36:BA:2033:A:O2'	36:BA:2034:U:P	2.76	0.43
36:BA:2063:C:C2'	36:BA:2064:C:H5'	2.49	0.43
36:BA:2130:U:OP1	38:BC:5:LYS:HG2	2.18	0.43
36:BA:2307:G:N2	36:BA:2308:G:H5''	2.33	0.43
36:BA:2547:U:H1'	47:BO:28:SER:O	2.18	0.43
36:BA:2641:G:OP1	46:BN:74:ARG:HG2	2.18	0.43
36:BA:2679:A:C6	36:BA:2729:G:O6	2.72	0.43
37:BB:14:U:OP2	37:BB:70:C:O2'	2.37	0.43
38:BC:120:MET:HA	38:BC:123:VAL:CG1	2.49	0.43
39:BD:226:MET:O	39:BD:227:ASN:OD1	2.37	0.43
40:BE:183:LEU:HD12	40:BE:183:LEU:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:51:ARG:HD3	42:BG:53:LEU:CD2	2.48	0.43
42:BG:63:ILE:O	42:BG:65:GLY:N	2.51	0.43
42:BG:138:GLN:C	42:BG:140:ILE:N	2.75	0.43
43:BH:37:VAL:HG11	43:BH:68:THR:CG2	2.48	0.43
48:BP:98:GLU:C	48:BP:101:VAL:HG13	2.44	0.43
49:BQ:35:VAL:CG2	49:BQ:36:ALA:N	2.82	0.43
49:BQ:92:GLY:O	49:BQ:93:TYR:CD1	2.72	0.43
50:BR:21:TYR:N	50:BR:21:TYR:CD1	2.87	0.43
50:BR:64:ARG:C	50:BR:66:VAL:N	2.75	0.43
52:BT:83:ILE:CD1	52:BT:84:GLN:HG2	2.49	0.43
54:BV:21:ARG:HB3	54:BV:91:TYR:CD1	2.53	0.43
55:BW:75:TYR:CD1	55:BW:104:THR:OG1	2.69	0.43
57:BY:101:LYS:HG2	57:BY:102:CYS:N	2.32	0.43
58:BZ:44:PHE:O	58:BZ:45:ASP:O	2.36	0.43
58:BZ:108:PRO:C	58:BZ:110:GLY:N	2.76	0.43
58:BZ:165:VAL:HG12	58:BZ:167:PRO:HA	1.99	0.43
1:CA:15:G:H4'	5:CE:24:ARG:NH2	2.33	0.43
1:CA:34:C:C1'	12:CL:32:PHE:HE2	2.32	0.43
1:CA:149:A:H2'	1:CA:150:C:C6	2.54	0.43
1:CA:163:C:O2'	1:CA:164:U:H5'	2.18	0.43
1:CA:191:G:O2'	20:CT:102:GLY:O	2.35	0.43
1:CA:311:C:O2'	1:CA:312:C:H5'	2.18	0.43
1:CA:367:U:C4	1:CA:394:G:N1	2.85	0.43
1:CA:418:C:C2'	1:CA:419:C:O5'	2.67	0.43
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.34	0.43
1:CA:697:U:C2'	1:CA:698:G:H5'	2.47	0.43
1:CA:1004:A:N6	1:CA:1035:A:C6	2.86	0.43
1:CA:1190:G:P	3:CC:5:ILE:HD12	2.59	0.43
1:CA:1221:G:N2	1:CA:1222:G:H1'	2.33	0.43
1:CA:1351:U:O2'	1:CA:1352:C:C5'	2.65	0.43
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.18	0.43
2:CB:36:ARG:HA	2:CB:36:ARG:CZ	2.48	0.43
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.32	0.43
3:CC:92:ALA:CA	3:CC:99:VAL:HG11	2.47	0.43
3:CC:120:VAL:O	3:CC:121:ALA:C	2.60	0.43
4:CD:18:LYS:HE2	4:CD:20:TYR:CE2	2.53	0.43
4:CD:141:ARG:C	4:CD:185:PHE:HD2	2.26	0.43
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.87	0.43
5:CE:76:ILE:CG2	5:CE:93:PRO:HA	2.49	0.43
7:CG:107:ALA:O	7:CG:110:GLN:HB2	2.18	0.43
7:CG:153:HIS:ND1	7:CG:153:HIS:N	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:1:MET:N	8:CH:1:MET:HE2	2.32	0.43
13:CM:29:ARG:HB3	13:CM:64:TRP:CZ2	2.52	0.43
13:CM:80:ARG:C	13:CM:82:MET:H	2.26	0.43
14:CN:21:TYR:CE2	14:CN:23:ARG:NH2	2.87	0.43
15:CO:81:LEU:HD11	15:CO:85:LEU:HD12	2.01	0.43
18:CR:36:ASN:O	18:CR:37:VAL:C	2.61	0.43
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.18	0.43
22:CV:68:C:H2'	22:CV:69:G:C4'	2.48	0.43
25:CZ:85:HIS:HD2	25:CZ:88:TYR:CE2	2.36	0.43
25:CZ:146:LEU:H	25:CZ:149:LEU:HD23	1.82	0.43
25:CZ:271:GLU:C	25:CZ:286:VAL:HG23	2.43	0.43
28:D2:4:SER:O	28:D2:7:ARG:HG3	2.19	0.43
32:D6:17:LYS:HD3	32:D6:17:LYS:HA	1.44	0.43
33:D7:46:VAL:HG12	33:D7:48:LYS:NZ	2.33	0.43
36:DA:64:A:O2'	36:DA:65:C:H5'	2.19	0.43
36:DA:128:C:C4	36:DA:129:C:C5	3.05	0.43
36:DA:188:G:H2'	36:DA:189:G:O4'	2.17	0.43
36:DA:221:A:O2'	36:DA:222:A:OP2	2.33	0.43
36:DA:412:A:H3'	36:DA:413:C:H6	1.84	0.43
36:DA:470:A:H2'	36:DA:471:A:O4'	2.18	0.43
36:DA:532:A:OP1	53:DU:45:TYR:OH	2.27	0.43
36:DA:563:G:O2'	36:DA:564:C:H5'	2.18	0.43
36:DA:573:G:N1	36:DA:2031:A:OP2	2.40	0.43
36:DA:615:G:C6	36:DA:616:G:C6	3.06	0.43
36:DA:676:A:C2	36:DA:677:A:H1'	2.54	0.43
36:DA:699:A:H2'	36:DA:700:G:O4'	2.17	0.43
36:DA:834:C:H2'	36:DA:835:A:H8	1.82	0.43
36:DA:880:G:H2'	36:DA:881:G:C8	2.52	0.43
36:DA:920:G:O2'	36:DA:921:G:H5'	2.18	0.43
36:DA:1221:C:H6	36:DA:1221:C:OP2	2.00	0.43
36:DA:1323:U:C2'	36:DA:1324:G:H5'	2.48	0.43
36:DA:1367:A:C2'	36:DA:1368:G:H5'	2.47	0.43
36:DA:1386:C:C6	36:DA:1387:C:H5	2.36	0.43
36:DA:1542:A:H5'	36:DA:1543:C:OP2	2.18	0.43
36:DA:1545:A:H2'	36:DA:1546:C:O4'	2.17	0.43
36:DA:1653:G:O3'	50:DR:3:HIS:HB2	2.18	0.43
36:DA:1903:G:O2'	36:DA:1904:G:H5'	2.18	0.43
36:DA:2029:G:O6	36:DA:2033:A:OP2	2.36	0.43
36:DA:2250:G:N3	36:DA:2250:G:O4'	2.51	0.43
36:DA:2255:G:H2'	36:DA:2256:G:O4'	2.17	0.43
36:DA:2363:C:O2'	36:DA:2364:C:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2587:A:O2'	36:DA:2588:G:H5'	2.19	0.43
36:DA:2590:A:H2'	36:DA:2591:C:H5'	2.00	0.43
36:DA:2645:G:C3'	36:DA:2646:C:H5'	2.24	0.43
36:DA:2740:A:H2'	36:DA:2741:A:O4'	2.19	0.43
39:DD:51:VAL:O	39:DD:52:ARG:O	2.37	0.43
39:DD:148:GLU:HB2	39:DD:151:LYS:HD2	1.97	0.43
39:DD:249:PRO:CG	39:DD:250:TRP:N	2.80	0.43
40:DE:4:ILE:CG1	40:DE:5:LEU:H	2.31	0.43
40:DE:7:VAL:HG23	40:DE:193:GLY:O	2.18	0.43
40:DE:11:MET:SD	40:DE:24:THR:OG1	2.77	0.43
40:DE:199:ARG:CG	40:DE:200:GLU:N	2.75	0.43
41:DF:20:LEU:HD12	41:DF:199:TRP:CH2	2.44	0.43
41:DF:78:ILE:HA	41:DF:83:PHE:CE1	2.54	0.43
42:DG:15:VAL:O	42:DG:18:GLU:HB3	2.18	0.43
42:DG:62:LEU:H	42:DG:62:LEU:CD1	2.28	0.43
47:DO:60:ALA:HB1	47:DO:85:VAL:O	2.18	0.43
48:DP:126:VAL:HG12	48:DP:148:LEU:HD11	1.99	0.43
48:DP:147:LEU:O	48:DP:148:LEU:HB2	2.19	0.43
49:DQ:51:ARG:CG	49:DQ:52:VAL:N	2.79	0.43
52:DT:48:ILE:O	52:DT:63:VAL:HG13	2.19	0.43
55:DW:17:VAL:O	55:DW:19:LEU:N	2.50	0.43
55:DW:52:GLU:O	55:DW:54:ALA:N	2.51	0.43
55:DW:68:ARG:O	55:DW:110:LYS:HB2	2.18	0.43
56:DX:46:ALA:O	56:DX:47:PHE:CD1	2.71	0.43
58:DZ:20:ARG:NH1	58:DZ:20:ARG:HB2	2.34	0.43
1:AA:47:C:O2'	1:AA:48:C:P	2.76	0.43
1:AA:51:A:C2	1:AA:353:A:N1	2.86	0.43
1:AA:110:C:C2	1:AA:111:G:C8	3.06	0.43
1:AA:184:G:H2'	1:AA:185:A:C8	2.51	0.43
1:AA:302:G:H2'	1:AA:303:A:C8	2.54	0.43
1:AA:630:G:C2'	1:AA:631:G:H5'	2.46	0.43
1:AA:705:U:C5	1:AA:706:A:C5	3.06	0.43
1:AA:722:A:O3'	1:AA:723:U:H2'	2.18	0.43
1:AA:982:U:H4'	1:AA:983:A:C5'	2.45	0.43
1:AA:990:C:H2'	1:AA:991:U:C6	2.54	0.43
1:AA:1001:A:O2'	1:AA:1001(A):G:C2	2.69	0.43
1:AA:1016:A:C2'	1:AA:1017:G:H5'	2.49	0.43
1:AA:1045:C:O2	1:AA:1045:C:C2'	2.67	0.43
1:AA:1054:C:N4	24:AY:34:G:C1'	2.73	0.43
1:AA:1256:A:N1	1:AA:1277:C:H2'	2.34	0.43
1:AA:1351:U:O2'	1:AA:1352:C:C5'	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1525:G:O2'	1:AA:1526:G:C5'	2.61	0.43
2:AB:166:ASP:O	2:AB:169:LYS:N	2.51	0.43
3:AC:101:LEU:HD23	3:AC:102:ASN:O	2.18	0.43
4:AD:64:LEU:O	4:AD:67:ILE:N	2.32	0.43
5:AE:51:VAL:CB	5:AE:52:PRO:HD3	2.49	0.43
7:AG:116:ALA:HA	7:AG:119:ARG:NH1	2.32	0.43
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	3.00	0.43
9:AI:6:GLY:HA3	9:AI:84:ALA:CA	2.47	0.43
9:AI:37:PHE:CE2	9:AI:74:ILE:HD11	2.53	0.43
9:AI:121:ARG:NH1	9:AI:122:ALA:O	2.51	0.43
14:AN:7:ILE:HG13	14:AN:8:GLU:HG2	2.00	0.43
14:AN:9:LYS:O	14:AN:9:LYS:CG	2.67	0.43
14:AN:25:VAL:O	14:AN:26:ARG:O	2.37	0.43
15:AO:36:ILE:HG23	15:AO:56:LEU:CD1	2.41	0.43
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.99	0.43
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.19	0.43
25:AZ:159:ASN:C	25:AZ:161:TYR:N	2.75	0.43
25:AZ:263:ARG:NH2	25:AZ:297:GLU:HB3	2.31	0.43
25:AZ:311:THR:OG1	25:AZ:313:HIS:NE2	2.45	0.43
27:B1:3:LYS:NZ	27:B1:3:LYS:CB	2.81	0.43
31:B5:24:ALA:O	31:B5:25:LEU:HG	2.19	0.43
31:B5:42:PRO:C	31:B5:43:HIS:CD2	2.96	0.43
36:BA:244:A:H3'	36:BA:245:G:C5'	2.48	0.43
36:BA:248:G:H5''	36:BA:386:G:N2	2.33	0.43
36:BA:360:G:H2'	36:BA:361:G:H8	1.84	0.43
36:BA:470:A:H2'	36:BA:471:A:O4'	2.18	0.43
36:BA:482:A:H1'	36:BA:498:G:N2	2.32	0.43
36:BA:765:G:C6	36:BA:766:C:C4	3.07	0.43
36:BA:1086:A:O4'	36:BA:1104:C:O2	2.35	0.43
36:BA:1203:G:N1	36:BA:1241:A:OP2	2.40	0.43
36:BA:1249:U:H2'	36:BA:1250:G:C8	2.53	0.43
36:BA:1365:A:N6	36:BA:1366:A:C6	2.86	0.43
36:BA:1649:G:C2	36:BA:2009:G:N3	2.87	0.43
36:BA:1717:G:H2'	36:BA:1718:G:H5''	1.99	0.43
36:BA:1769:G:C1'	36:BA:1958:C:H5''	2.47	0.43
36:BA:1801:G:O5'	36:BA:1801:G:N3	2.51	0.43
36:BA:1804:C:H2'	36:BA:1805:U:H6	1.84	0.43
36:BA:2128:C:HO2'	36:BA:2129:C:H6	1.64	0.43
36:BA:2239:G:C6	36:BA:2240:C:C4	3.07	0.43
36:BA:2643:G:N2	36:BA:2772:C:C2	2.86	0.43
36:BA:2758:A:C2	36:BA:2759:G:C1'	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BB:40:U:C3'	37:BB:41:U:H5''	2.48	0.43
37:BB:67:G:O2'	37:BB:68:C:O5'	2.35	0.43
38:BC:6:ARG:NH1	38:BC:6:ARG:CG	2.81	0.43
38:BC:216:THR:O	38:BC:217:THR:C	2.61	0.43
43:BH:13:LYS:C	43:BH:15:VAL:H	2.26	0.43
46:BN:57:ALA:CB	46:BN:124:ALA:HA	2.44	0.43
46:BN:62:VAL:O	46:BN:62:VAL:HG13	2.19	0.43
48:BP:79:ARG:HH22	48:BP:81:GLN:HE21	1.66	0.43
48:BP:98:GLU:CA	48:BP:101:VAL:HG13	2.49	0.43
49:BQ:46:GLN:O	49:BQ:47:ILE:C	2.62	0.43
50:BR:109:ALA:O	50:BR:111:LEU:HD12	2.19	0.43
51:BS:97:ARG:C	51:BS:97:ARG:HE	2.27	0.43
51:BS:104:GLY:O	51:BS:106:ARG:N	2.51	0.43
52:BT:91:ARG:O	52:BT:117:ASP:HB3	2.18	0.43
52:BT:98:LYS:HG2	52:BT:100:TYR:HE1	1.82	0.43
53:BU:9:VAL:O	53:BU:13:LYS:HG2	2.19	0.43
54:BV:21:ARG:HG2	54:BV:21:ARG:HH11	1.83	0.43
54:BV:32:THR:HG22	54:BV:33:VAL:N	2.34	0.43
55:BW:70:TYR:HE1	55:BW:72:LYS:HA	1.83	0.43
57:BY:12:THR:CG2	57:BY:13:VAL:N	2.81	0.43
57:BY:46:LYS:HB2	57:BY:62:GLU:HG3	1.94	0.43
1:CA:15:G:H2'	1:CA:16:A:C8	2.53	0.43
1:CA:102:G:C5	1:CA:103:C:C5	3.06	0.43
1:CA:109:A:C4	1:CA:327:A:C2	3.07	0.43
1:CA:310:G:H2'	1:CA:311:C:C6	2.53	0.43
1:CA:590:C:OP1	8:CH:30:ARG:N	2.38	0.43
1:CA:935:A:C2	1:CA:936:C:N3	2.87	0.43
1:CA:998:G:C2	1:CA:1044:A:N1	2.85	0.43
1:CA:1091:U:O2	1:CA:1093:A:C8	2.72	0.43
1:CA:1114:C:H2'	1:CA:1114:C:O2	2.18	0.43
1:CA:1497:G:H1'	1:CA:1518:A:H2	1.83	0.43
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.99	0.43
2:CB:104:ASN:OD1	2:CB:107:THR:CB	2.66	0.43
3:CC:58:GLU:O	3:CC:65:ALA:HB2	2.18	0.43
4:CD:135:LEU:C	4:CD:137:SER:H	2.25	0.43
4:CD:138:TYR:CD2	4:CD:139:ARG:N	2.84	0.43
6:CF:68:PRO:HB2	6:CF:70:ASP:OD1	2.18	0.43
7:CG:79:ARG:HG3	7:CG:84:ASN:N	2.33	0.43
12:CL:28:LYS:C	12:CL:30:ALA:N	2.75	0.43
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.19	0.43
13:CM:32:GLU:O	13:CM:34:LEU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:75:ALA:O	13:CM:78:ILE:HB	2.17	0.43
14:CN:9:LYS:O	14:CN:9:LYS:CG	2.67	0.43
15:CO:32:LEU:O	15:CO:35:ARG:HB2	2.19	0.43
16:CP:53:VAL:CG2	16:CP:54:GLU:H	2.19	0.43
20:CT:24:LEU:O	20:CT:27:LYS:N	2.49	0.43
22:CV:12:U:H5''	36:DA:1908:C:O2'	2.19	0.43
25:CZ:97:ALA:CA	25:CZ:126:VAL:CG1	2.97	0.43
25:CZ:197:ASP:HA	25:CZ:200:TRP:HD1	1.80	0.43
25:CZ:200:TRP:O	25:CZ:204:ASP:N	2.52	0.43
26:D0:48:GLY:N	26:D0:51:VAL:HB	2.31	0.43
26:D0:63:VAL:O	26:D0:63:VAL:HG23	2.18	0.43
33:D7:11:LYS:HG2	36:DA:686:G:C4	2.52	0.43
36:DA:197:A:C8	36:DA:2430:A:C2	3.06	0.43
36:DA:223:A:H61	36:DA:374:A:H4'	1.83	0.43
36:DA:402:A:H2'	36:DA:403:U:H5'	2.01	0.43
36:DA:428:A:C2	36:DA:429:A:C4	3.06	0.43
36:DA:583:G:C6	36:DA:584:C:N4	2.86	0.43
36:DA:587:C:O2'	36:DA:588:U:P	2.77	0.43
36:DA:687:C:O2	36:DA:788:A:H5'	2.18	0.43
36:DA:909:A:O2'	36:DA:910:A:H5'	2.18	0.43
36:DA:1019:U:C2	36:DA:1144:G:N2	2.87	0.43
36:DA:1227:G:C2'	36:DA:1228:G:H5'	2.48	0.43
36:DA:1425:G:H8	36:DA:1425:G:O5'	2.01	0.43
36:DA:1518:U:H2'	36:DA:1519:G:C4'	2.48	0.43
36:DA:1829:A:N3	39:DD:15:PHE:HZ	2.16	0.43
36:DA:1887:C:C3'	36:DA:1888:G:C5'	2.96	0.43
36:DA:1968:G:H2'	36:DA:1969:A:H5''	1.99	0.43
36:DA:2497:A:OP2	36:DA:2497:A:C8	2.71	0.43
36:DA:2498:C:O2'	36:DA:2499:C:C5'	2.57	0.43
38:DC:71:GLN:NE2	38:DC:157:LYS:HD3	2.33	0.43
38:DC:199:HIS:ND1	38:DC:199:HIS:N	2.66	0.43
43:DH:94:TYR:CE1	43:DH:108:GLY:N	2.86	0.43
46:DN:47:ALA:HB1	46:DN:119:ARG:NH1	2.34	0.43
48:DP:11:GLY:O	48:DP:12:ALA:C	2.61	0.43
48:DP:111:ARG:HH11	48:DP:149:GLU:CG	2.19	0.43
49:DQ:51:ARG:HG2	49:DQ:52:VAL:N	2.33	0.43
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.19	0.43
51:DS:93:LYS:HA	51:DS:93:LYS:HD2	1.79	0.43
54:DV:4:ILE:O	54:DV:38:LEU:HD23	2.19	0.43
54:DV:4:ILE:CG2	54:DV:39:LEU:HD23	2.28	0.43
54:DV:52:VAL:O	54:DV:54:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DW:104:THR:O	55:DW:105:VAL:HG22	2.19	0.43
58:DZ:71:VAL:CG1	58:DZ:74:VAL:CG2	2.91	0.43
58:DZ:127:LYS:HZ1	58:DZ:164:ALA:HB2	1.74	0.43
1:AA:235:C:OP1	17:AQ:70:ARG:HD3	2.18	0.43
1:AA:716:A:H1'	11:AK:118:GLY:O	2.19	0.43
1:AA:876:G:H2'	1:AA:877:C:H6	1.84	0.43
1:AA:882:C:OP2	12:AL:13:LYS:NZ	2.50	0.43
1:AA:961:U:O2'	1:AA:962:C:O5'	2.36	0.43
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.72	0.43
1:AA:1145:C:H1'	1:AA:1146:A:N7	2.34	0.43
1:AA:1413:A:C6	1:AA:1414:U:C4	3.06	0.43
1:AA:1483:A:H3'	1:AA:1484:C:C6	2.54	0.43
2:AB:224:GLN:HA	2:AB:229:VAL:HG22	2.00	0.43
3:AC:18:TRP:NE1	14:AN:55:GLY:H	2.16	0.43
3:AC:56:ASP:O	3:AC:57:ILE:HG13	2.18	0.43
4:AD:92:VAL:CG1	4:AD:96:LEU:HD13	2.48	0.43
4:AD:125:HIS:ND1	4:AD:152:SER:OG	2.51	0.43
4:AD:141:ARG:C	4:AD:185:PHE:HD2	2.26	0.43
8:AH:14:ARG:HH11	8:AH:14:ARG:HB3	1.82	0.43
8:AH:28:ALA:HB2	8:AH:58:TYR:C	2.43	0.43
9:AI:26:VAL:HG12	9:AI:27:THR:N	2.33	0.43
10:AJ:6:ILE:O	10:AJ:6:ILE:HG13	2.18	0.43
13:AM:74:VAL:O	13:AM:75:ALA:C	2.62	0.43
17:AQ:29:HIS:CE1	17:AQ:32:TYR:H	2.35	0.43
19:AS:44:MET:HA	19:AS:44:MET:HE3	2.00	0.43
20:AT:64:ASP:O	20:AT:67:ALA:CB	2.66	0.43
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.33	0.43
24:AY:33:U:H3'	24:AY:34:G:H5''	2.01	0.43
25:AZ:173:GLY:O	25:AZ:174:SER:C	2.62	0.43
25:AZ:248:LYS:HA	25:AZ:270:VAL:HG21	2.01	0.43
27:B1:45:ASN:C	27:B1:45:ASN:ND2	2.69	0.43
28:B2:39:ALA:HB1	28:B2:45:SER:HA	2.00	0.43
36:BA:25:U:H2'	36:BA:26:G:C8	2.53	0.43
36:BA:225:A:O2'	36:BA:226:G:H5'	2.18	0.43
36:BA:685:A:N1	36:BA:787:U:H1'	2.34	0.43
36:BA:749:C:O5'	36:BA:749:C:H6	2.01	0.43
36:BA:1843:C:H2'	36:BA:1844:C:C6	2.54	0.43
36:BA:2239:G:H2'	36:BA:2240:C:C6	2.53	0.43
36:BA:2246:G:O2'	36:BA:2247:A:H5'	2.19	0.43
36:BA:2308:G:N2	42:BG:79:ASN:CG	2.77	0.43
36:BA:2311:A:H2	42:BG:77:ILE:HG21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2319:G:O6	51:BS:11:LYS:HD3	2.18	0.43
36:BA:2346:A:H5'	36:BA:2383:G:C1'	2.49	0.43
36:BA:2580:U:C6	36:BA:2581:G:C6	3.06	0.43
36:BA:2635:C:H5''	40:BE:78:LEU:O	2.19	0.43
37:BB:52:A:H8	37:BB:52:A:P	2.41	0.43
39:BD:130:ALA:C	39:BD:131:LEU:HD12	2.44	0.43
39:BD:209:ALA:O	39:BD:212:SER:HB2	2.18	0.43
41:BF:157:VAL:O	41:BF:158:THR:CB	2.66	0.43
42:BG:46:ALA:C	42:BG:51:ARG:HB3	2.43	0.43
42:BG:93:THR:CG2	42:BG:94:LEU:N	2.80	0.43
42:BG:128:ARG:O	42:BG:129:GLY:O	2.35	0.43
42:BG:161:THR:OG1	42:BG:163:ALA:HB2	2.18	0.43
48:BP:32:THR:O	48:BP:33:ARG:C	2.61	0.43
51:BS:67:ARG:HB2	51:BS:71:ARG:NH1	2.33	0.43
53:BU:17:ILE:CA	53:BU:20:LEU:HD23	2.48	0.43
56:BX:5:TYR:C	56:BX:7:VAL:H	2.26	0.43
56:BX:63:LYS:HB2	56:BX:63:LYS:HE3	1.82	0.43
58:BZ:141:VAL:CA	58:BZ:144:LEU:HD23	2.43	0.43
1:CA:130:A:H1'	1:CA:264:U:H5'	2.01	0.43
1:CA:157:G:H2'	1:CA:158:G:C8	2.45	0.43
1:CA:316:G:OP2	1:CA:351:G:H2'	2.18	0.43
1:CA:518:C:H2'	1:CA:530:G:N3	2.33	0.43
1:CA:811:C:C4'	1:CA:900:A:H61	2.32	0.43
1:CA:833:U:H2'	1:CA:834:C:H6	1.82	0.43
1:CA:833:U:H3	1:CA:853:G:H1	1.65	0.43
1:CA:1006:C:H42	1:CA:1024:G:H21	1.66	0.43
1:CA:1030:C:N4	1:CA:1032:G:N2	2.66	0.43
1:CA:1190:G:H5''	3:CC:3:ASN:ND2	2.34	0.43
1:CA:1271:G:H5'	1:CA:1314:C:C5'	2.47	0.43
1:CA:1483:A:H3'	1:CA:1484:C:H6	1.83	0.43
2:CB:21:ARG:CZ	2:CB:39:ILE:CG1	2.89	0.43
2:CB:46:LYS:O	2:CB:47:THR:C	2.61	0.43
2:CB:155:LEU:CD2	2:CB:157:ARG:O	2.66	0.43
2:CB:155:LEU:HD22	2:CB:157:ARG:O	2.18	0.43
2:CB:166:ASP:O	2:CB:169:LYS:N	2.52	0.43
3:CC:28:GLN:O	3:CC:29:TYR:C	2.60	0.43
4:CD:102:ASP:O	4:CD:117:ALA:HB1	2.19	0.43
4:CD:159:ARG:HG3	4:CD:159:ARG:NH1	2.33	0.43
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.53	0.43
5:CE:40:ARG:HH11	5:CE:40:ARG:HG2	1.84	0.43
5:CE:137:GLU:O	5:CE:140:ARG:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:10:LEU:O	6:CF:12:PRO:N	2.51	0.43
9:CI:26:VAL:HG12	9:CI:27:THR:N	2.34	0.43
12:CL:82:VAL:CG1	12:CL:105:TYR:HD1	2.27	0.43
19:CS:13:ASP:O	19:CS:15:LEU:N	2.52	0.43
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.34	0.43
19:CS:51:VAL:CG1	19:CS:52:TYR:N	2.82	0.43
20:CT:19:SER:O	20:CT:23:ARG:HB3	2.19	0.43
20:CT:57:ARG:CZ	20:CT:57:ARG:CB	2.96	0.43
22:CW:45:U:H6	22:CW:45:U:H3'	1.83	0.43
25:CZ:67:HIS:CD2	25:CZ:80:VAL:HG13	2.53	0.43
25:CZ:259:ALA:O	25:CZ:260:PRO:O	2.35	0.43
29:D3:6:VAL:HG12	29:D3:56:VAL:HG13	2.00	0.43
31:D5:21:SER:C	31:D5:23:HIS:H	2.27	0.43
32:D6:22:ALA:CB	32:D6:39:TYR:CZ	3.02	0.43
34:D8:17:THR:OG1	34:D8:21:LYS:HB2	2.19	0.43
36:DA:6:A:HO2'	46:DN:130:HIS:HB2	1.81	0.43
36:DA:17:G:H21	36:DA:555:U:H5''	1.84	0.43
36:DA:70:G:H2'	36:DA:113:G:O2'	2.19	0.43
36:DA:139(A):G:H3'	36:DA:140:G:H8	1.83	0.43
36:DA:597:U:H4'	48:DP:15:ARG:NE	2.33	0.43
36:DA:671:C:H2'	36:DA:672:C:C6	2.54	0.43
36:DA:1314:C:H6	36:DA:1314:C:C5'	2.22	0.43
36:DA:1631(A):A:O2'	36:DA:1632:A:H5'	2.18	0.43
36:DA:1805:U:H5''	39:DD:250:TRP:CD2	2.53	0.43
36:DA:2165:G:C6	36:DA:2166:G:C6	3.07	0.43
36:DA:2252:G:H2'	36:DA:2253:G:O4'	2.19	0.43
36:DA:2292:C:C2	36:DA:2341:G:N2	2.87	0.43
36:DA:2306:C:H41	36:DA:2311:A:H8	1.66	0.43
36:DA:2370:G:H2'	36:DA:2371:G:C8	2.53	0.43
36:DA:2371:G:C2	36:DA:2372:G:C4	3.06	0.43
36:DA:2554:U:C2	36:DA:2555:U:H5	2.36	0.43
36:DA:2635:C:C5'	40:DE:78:LEU:HD12	2.48	0.43
36:DA:2643:G:N2	36:DA:2772:C:C2	2.87	0.43
36:DA:2726:U:H6	47:DO:67:LYS:HZ3	1.67	0.43
36:DA:2762:G:C8	36:DA:2762:G:C5'	2.98	0.43
37:DB:33:G:H2'	37:DB:34:U:O4'	2.19	0.43
38:DC:6:ARG:CZ	38:DC:34:THR:HB	2.49	0.43
38:DC:182:PRO:HD2	38:DC:183:GLU:OE2	2.19	0.43
39:DD:101:GLU:HG2	39:DD:102:LYS:N	2.32	0.43
40:DE:62:PRO:O	40:DE:63:LEU:C	2.61	0.43
41:DF:7:TYR:HD2	41:DF:16:GLY:HA3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:45:ARG:NH1	41:DF:97:TYR:CE1	2.87	0.43
41:DF:48:THR:O	41:DF:49:ALA:C	2.62	0.43
41:DF:170:LEU:O	41:DF:171:PRO:C	2.61	0.43
42:DG:63:ILE:HD13	42:DG:141:PHE:CE2	2.53	0.43
42:DG:138:GLN:C	42:DG:140:ILE:H	2.26	0.43
43:DH:19:VAL:CG1	43:DH:20:ALA:N	2.78	0.43
43:DH:135:GLY:HA3	43:DH:141:VAL:HG22	1.99	0.43
46:DN:101:HIS:C	46:DN:103:VAL:H	2.27	0.43
46:DN:131:GLN:NE2	46:DN:133:GLN:N	2.67	0.43
48:DP:51:PHE:HB3	48:DP:52:GLU:H	1.41	0.43
48:DP:61:ARG:H	48:DP:61:ARG:HG3	1.30	0.43
49:DQ:24:GLY:O	49:DQ:25:ASP:C	2.61	0.43
50:DR:32:GLY:O	50:DR:115:GLU:HA	2.19	0.43
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.18	0.43
51:DS:49:VAL:CG1	51:DS:50:SER:N	2.72	0.43
52:DT:99:LEU:O	52:DT:101:PHE:N	2.52	0.43
55:DW:63:ASP:C	55:DW:64:MET:HG3	2.44	0.43
58:DZ:10:ARG:HG3	58:DZ:12:GLY:H	1.84	0.43
1:AA:8:A:H2'	1:AA:8:A:P	2.58	0.43
1:AA:657:G:H2'	1:AA:658:G:H8	1.82	0.43
1:AA:1001(A):G:O2'	1:AA:1002:G:H5'	2.18	0.43
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.19	0.43
1:AA:1085:U:H5'	1:AA:1094:G:N2	2.34	0.43
1:AA:1342:C:O5'	1:AA:1342:C:H6	2.01	0.43
1:AA:1423:G:N2	1:AA:1478:C:C2	2.87	0.43
2:AB:58:ILE:O	2:AB:61:LEU:N	2.52	0.43
2:AB:61:LEU:O	2:AB:64:ARG:HG2	2.18	0.43
2:AB:107:THR:CG2	2:AB:110:GLN:NE2	2.71	0.43
2:AB:157:ARG:CZ	2:AB:157:ARG:HB3	2.47	0.43
2:AB:220:ASP:O	2:AB:221:LEU:C	2.62	0.43
3:AC:203:PHE:CE1	3:AC:205:GLY:O	2.71	0.43
5:AE:6:PHE:CB	5:AE:34:VAL:HG22	2.49	0.43
5:AE:47:LYS:H	5:AE:57:LYS:NZ	2.16	0.43
5:AE:76:ILE:HD12	5:AE:91:LEU:HB3	2.01	0.43
5:AE:79:GLU:HB3	5:AE:93:PRO:HD3	2.00	0.43
5:AE:107:ARG:C	5:AE:109:ILE:H	2.26	0.43
6:AF:22:GLU:C	6:AF:24:GLU:N	2.77	0.43
6:AF:67:MET:HE2	6:AF:68:PRO:O	2.18	0.43
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.44	0.43
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.33	0.43
10:AJ:32:ALA:CB	10:AJ:75:ILE:HG13	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:49:VAL:CG2	14:AN:41:ARG:CB	2.95	0.43
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.84	0.43
12:AL:102:ARG:HA	12:AL:102:ARG:HD2	1.64	0.43
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	2.00	0.43
15:AO:39:LEU:O	15:AO:42:HIS:N	2.52	0.43
15:AO:81:LEU:HD11	15:AO:85:LEU:HD12	1.99	0.43
18:AR:25:THR:CG2	18:AR:42:ARG:HH11	2.32	0.43
18:AR:36:ASN:O	18:AR:37:VAL:C	2.62	0.43
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	2.18	0.43
19:AS:22:LEU:HD13	19:AS:22:LEU:O	2.17	0.43
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.34	0.43
22:AV:17:C:H3'	22:AV:18:G:C5'	2.48	0.43
22:AV:49:C:HO2'	22:AV:50:U:P	2.41	0.43
25:AZ:19:HIS:CD2	25:AZ:115:GLN:H	2.32	0.43
25:AZ:182:MET:HE3	25:AZ:196:VAL:CG2	2.49	0.43
25:AZ:315:LYS:HA	25:AZ:372:VAL:O	2.18	0.43
25:AZ:356:PRO:CB	25:AZ:357:PRO:HD2	2.48	0.43
26:B0:42:GLY:O	26:B0:43:THR:HB	2.19	0.43
27:B1:24:ALA:HB2	27:B1:32:LYS:CE	2.48	0.43
28:B2:17:SER:OG	28:B2:20:GLU:HG2	2.18	0.43
36:BA:340:A:H2'	36:BA:341:G:O4'	2.19	0.43
36:BA:654:A:H4'	36:BA:654(A):G:O5'	2.18	0.43
36:BA:654(H):G:H2'	36:BA:654(I):C:C5'	2.49	0.43
36:BA:654(V):A:P	36:BA:655:A:H3'	2.58	0.43
36:BA:716:A:H3'	36:BA:717:G:H5''	1.99	0.43
36:BA:733:G:O6	36:BA:761:A:C5	2.72	0.43
36:BA:805:G:N2	36:BA:829:A:P	2.92	0.43
36:BA:953:A:C2	36:BA:965:C:O2	2.72	0.43
36:BA:1006:C:H42	36:BA:1137:G:H1	1.66	0.43
36:BA:1375:C:H2'	36:BA:1376:C:O4'	2.18	0.43
36:BA:1441:G:H4'	36:BA:1627:G:O3'	2.18	0.43
36:BA:1665:A:C2'	36:BA:1666:G:C5'	2.79	0.43
36:BA:1755:A:O2'	36:BA:1756:G:H5'	2.18	0.43
36:BA:1791:A:H3'	36:BA:1792:G:H8	1.83	0.43
36:BA:1827:C:H1'	36:BA:1970:A:C2	2.53	0.43
36:BA:1863:G:C2	36:BA:1880:C:O2	2.72	0.43
36:BA:2133:G:C1'	36:BA:2157:G:H22	2.32	0.43
36:BA:2177:C:H2'	36:BA:2178:C:O2	2.19	0.43
36:BA:2189:U:C3'	36:BA:2190:G:H4'	2.48	0.43
36:BA:2255:G:H2'	36:BA:2256:G:O4'	2.18	0.43
36:BA:2352:A:C2	36:BA:2366:A:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2435:A:C2'	36:BA:2436:G:O5'	2.66	0.43
36:BA:2709:G:H2'	36:BA:2710:C:C6	2.53	0.43
36:BA:2729:G:H2'	36:BA:2730:C:C6	2.54	0.43
36:BA:2878:U:O5'	36:BA:2878:U:H6	2.02	0.43
39:BD:83:GLU:CB	39:BD:92:ILE:HD11	2.45	0.43
39:BD:111:LEU:C	39:BD:111:LEU:HD13	2.44	0.43
39:BD:155:LEU:HD12	39:BD:155:LEU:N	2.33	0.43
39:BD:270:ILE:C	39:BD:271:ILE:CG1	2.91	0.43
40:BE:101:ARG:HG3	40:BE:101:ARG:HH11	1.84	0.43
41:BF:13:SER:HA	41:BF:14:PRO:HD3	1.82	0.43
45:BK:31:UNK:C	45:BK:63:UNK:HA	2.48	0.43
46:BN:47:ALA:C	46:BN:49:GLY:N	2.74	0.43
47:BO:8:LEU:HD13	47:BO:8:LEU:N	2.33	0.43
51:BS:54:LEU:C	51:BS:56:LEU:N	2.77	0.43
51:BS:69:VAL:O	51:BS:69:VAL:HG22	2.19	0.43
52:BT:36:GLU:O	52:BT:37:GLY:C	2.62	0.43
54:BV:95:LEU:HD23	54:BV:96:ILE:N	2.33	0.43
56:BX:58:HIS:C	56:BX:59:VAL:HG23	2.44	0.43
57:BY:4:LYS:HG3	57:BY:5:MET:N	2.34	0.43
58:BZ:45:ASP:O	58:BZ:48:PHE:N	2.51	0.43
58:BZ:81:ARG:CZ	58:BZ:81:ARG:CB	2.84	0.43
58:BZ:102:LEU:HD22	58:BZ:137:ILE:HB	1.99	0.43
58:BZ:110:GLY:N	58:BZ:145:GLU:OE1	2.51	0.43
1:CA:62:U:O5'	1:CA:62:U:H6	2.01	0.43
1:CA:116:A:O2'	1:CA:117:G:H5'	2.19	0.43
1:CA:542:G:O2'	1:CA:543:C:H5'	2.18	0.43
1:CA:564:C:N3	17:CQ:31:LEU:HD11	2.33	0.43
1:CA:568:G:C6	1:CA:569:C:N4	2.87	0.43
1:CA:628:G:H2'	1:CA:629:G:C8	2.54	0.43
1:CA:657:G:N2	1:CA:749:C:N3	2.61	0.43
1:CA:851:G:C4	1:CA:852:G:C8	3.06	0.43
1:CA:930:C:H2'	1:CA:931:C:H6	1.83	0.43
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.19	0.43
1:CA:1107:C:N4	1:CA:1108:G:C5	2.87	0.43
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.19	0.43
1:CA:1327:C:OP1	21:CU:20:LYS:HB3	2.18	0.43
1:CA:1467:G:O5'	1:CA:1467:G:H8	2.02	0.43
3:CC:3:ASN:O	3:CC:4:LYS:HB2	2.18	0.43
3:CC:18:TRP:HB2	3:CC:21:ARG:HB3	1.99	0.43
3:CC:35:GLU:C	3:CC:37:GLN:N	2.76	0.43
4:CD:9:CYS:SG	4:CD:32:ALA:HB2	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:12:CYS:HA	4:CD:19:LEU:HD13	2.01	0.43
4:CD:49:ARG:O	4:CD:51:PRO:CD	2.66	0.43
4:CD:61:LYS:O	4:CD:62:GLN:C	2.61	0.43
4:CD:75:PHE:CD2	4:CD:75:PHE:C	2.96	0.43
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.71	0.43
4:CD:150:GLU:O	4:CD:152:SER:N	2.52	0.43
5:CE:64:ARG:C	5:CE:66:MET:HE2	2.43	0.43
7:CG:104:LEU:CD2	7:CG:104:LEU:H	2.32	0.43
9:CI:18:PHE:O	9:CI:19:LEU:HD23	2.18	0.43
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.52	0.43
12:CL:82:VAL:HG12	12:CL:105:TYR:CD1	2.44	0.43
12:CL:94:PRO:O	12:CL:96:VAL:HG23	2.19	0.43
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.01	0.43
19:CS:15:LEU:O	19:CS:19:VAL:N	2.52	0.43
20:CT:27:LYS:HD3	20:CT:27:LYS:C	2.43	0.43
20:CT:43:LEU:HB3	20:CT:48:LYS:CG	2.48	0.43
21:CU:6:ARG:HD3	21:CU:15:ARG:HH11	1.82	0.43
22:CV:37:A:C2	23:CX:19:U:N3	2.87	0.43
22:CW:34:G:N2	23:CX:18:G:H22	2.11	0.43
22:CW:35:A:C6	22:CW:36:A:N1	2.87	0.43
22:CW:55:U:C5	22:CW:58:A:OP2	2.68	0.43
24:CY:76:A:H61	25:CZ:234:ARG:CZ	2.32	0.43
25:CZ:322:VAL:HB	25:CZ:366:ASP:O	2.19	0.43
26:D0:42:GLY:O	26:D0:43:THR:HB	2.19	0.43
29:D3:15:TYR:CE2	29:D3:52:HIS:ND1	2.87	0.43
31:D5:24:ALA:O	31:D5:25:LEU:HG	2.18	0.43
34:D8:41:ILE:HD12	36:DA:2419:U:OP1	2.19	0.43
36:DA:483:A:OP2	36:DA:484:C:N4	2.52	0.43
36:DA:486:C:O2'	55:DW:56:ALA:HB1	2.19	0.43
36:DA:510:C:OP1	36:DA:511:U:OP2	2.36	0.43
36:DA:531:C:OP1	36:DA:561:G:N1	2.50	0.43
36:DA:531:C:H5	36:DA:2035:G:C4	2.37	0.43
36:DA:587:C:N4	48:DP:33:ARG:HB2	2.34	0.43
36:DA:654:A:C8	36:DA:654(V):A:H4'	2.53	0.43
36:DA:830:G:H1'	36:DA:2448:A:N1	2.34	0.43
36:DA:864:G:OP2	49:DQ:22:LYS:HG3	2.19	0.43
36:DA:911:A:H5''	36:DA:912:C:H5''	2.00	0.43
36:DA:966:G:H5'	36:DA:2272:U:H1'	2.01	0.43
36:DA:1392:A:N6	36:DA:1393:A:N1	2.67	0.43
36:DA:1528:A:N6	36:DA:1544:A:C2	2.87	0.43
36:DA:1678:G:H22	36:DA:1989:G:H1	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1803:A:H4'	39:DD:259:THR:CG2	2.49	0.43
36:DA:1969:A:O2'	36:DA:1972:A:H1'	2.18	0.43
36:DA:1982:C:H2'	36:DA:1983:C:H6	1.83	0.43
36:DA:2050:C:C4	36:DA:2051:A:C6	3.06	0.43
36:DA:2078:C:O2'	36:DA:2079:U:H5'	2.19	0.43
36:DA:2115:G:H5'	36:DA:2167:U:O2'	2.19	0.43
36:DA:2267:A:N3	36:DA:2267:A:H3'	2.34	0.43
36:DA:2457:U:H2'	36:DA:2458:G:H5'	1.99	0.43
36:DA:2598:A:H5''	39:DD:235:GLY:HA3	2.01	0.43
36:DA:2603:G:C6	36:DA:2604:U:C4	3.06	0.43
39:DD:66:ASP:OD1	39:DD:66:ASP:C	2.61	0.43
41:DF:70:THR:C	41:DF:72:ARG:H	2.27	0.43
41:DF:110:LEU:C	41:DF:112:MET:N	2.75	0.43
43:DH:24:VAL:CG1	43:DH:25:LYS:N	2.81	0.43
46:DN:39:ARG:C	46:DN:41:ASP:N	2.76	0.43
46:DN:71:ILE:HG23	46:DN:85:ILE:C	2.44	0.43
47:DO:41:ALA:O	47:DO:58:VAL:N	2.51	0.43
47:DO:90:GLN:O	47:DO:92:GLU:N	2.51	0.43
48:DP:23:PRO:CG	48:DP:33:ARG:HE	2.32	0.43
48:DP:140:ALA:O	48:DP:141:ALA:HB3	2.18	0.43
49:DQ:98:LYS:O	49:DQ:99:PRO:C	2.62	0.43
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.86	0.43
53:DU:83:LEU:H	53:DU:83:LEU:HD12	1.84	0.43
54:DV:36:PRO:HA	54:DV:56:SER:HB3	1.99	0.43
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.81	0.43
1:AA:310:G:H2'	1:AA:311:C:H6	1.84	0.43
1:AA:325:A:N6	1:AA:326:G:N1	2.66	0.43
1:AA:346:G:N3	1:AA:346:G:C2'	2.81	0.43
1:AA:374:A:N1	1:AA:390:C:O2'	2.51	0.43
1:AA:539:A:N6	1:AA:540:G:O6	2.52	0.43
1:AA:668:G:H2'	1:AA:669:U:H6	1.83	0.43
1:AA:784:C:H2'	1:AA:785:G:H8	1.84	0.43
1:AA:973:G:P	10:AJ:57:LYS:NZ	2.92	0.43
1:AA:1075:C:H4'	1:AA:1101:A:C6	2.53	0.43
1:AA:1075:C:OP1	2:AB:179:LYS:HE2	2.19	0.43
1:AA:1206:G:C6	1:AA:1207:G:C5	3.07	0.43
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.54	0.43
1:AA:1351:U:O4	9:AI:118:LYS:NZ	2.52	0.43
1:AA:1378:C:OP2	7:AG:7:ALA:HB2	2.19	0.43
1:AA:1442(A):G:H5''	52:BT:118:ARG:NH1	2.31	0.43
3:AC:77:ILE:CA	3:AC:83:ARG:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:135:LYS:O	3:AC:136:GLN:C	2.62	0.43
3:AC:164:ARG:NH2	3:AC:166:GLU:OE2	2.52	0.43
4:AD:55:ALA:O	4:AD:56:VAL:C	2.62	0.43
4:AD:160:GLN:H	4:AD:160:GLN:HG3	1.47	0.43
6:AF:10:LEU:N	6:AF:10:LEU:CD1	2.80	0.43
6:AF:15:ASP:C	6:AF:17:SER:N	2.75	0.43
7:AG:61:VAL:O	7:AG:64:GLN:N	2.52	0.43
8:AH:127:LEU:HD13	8:AH:127:LEU:O	2.18	0.43
13:AM:70:LEU:CD2	13:AM:71:ARG:N	2.82	0.43
13:AM:87:TYR:N	19:AS:73:GLU:O	2.52	0.43
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	2.01	0.43
18:AR:44:LEU:HD12	18:AR:44:LEU:N	2.32	0.43
18:AR:53:ARG:CZ	18:AR:60:ALA:H	2.32	0.43
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.83	0.43
19:AS:68:GLY:O	19:AS:70:LYS:HE3	2.19	0.43
22:AW:55:U:C5	22:AW:58:A:OP2	2.67	0.43
25:AZ:152:MET:HE3	25:AZ:152:MET:O	2.19	0.43
27:B1:23:LYS:O	27:B1:29:GLY:O	2.37	0.43
27:B1:45:ASN:HA	36:BA:2230:G:O4'	2.19	0.43
31:B5:59:GLU:O	31:B5:59:GLU:HG3	2.19	0.43
35:B9:1:MET:HA	35:B9:4:ARG:NH2	2.34	0.43
36:BA:64:A:O2'	36:BA:65:C:H5'	2.19	0.43
36:BA:259:G:H2'	36:BA:260:G:H8	1.84	0.43
36:BA:597:U:H4'	48:BP:15:ARG:NE	2.34	0.43
36:BA:993:G:C5	36:BA:994:C:H5	2.36	0.43
36:BA:997:G:C2	36:BA:998:C:C4	3.06	0.43
36:BA:1017:G:N3	36:BA:1017:G:H2'	2.34	0.43
36:BA:1131:G:H21	46:BN:73:THR:HG22	1.83	0.43
36:BA:1131:G:N2	46:BN:75:TYR:HB2	2.34	0.43
36:BA:1155:A:P	53:BU:55:ARG:HD2	2.58	0.43
36:BA:1335:U:H2'	36:BA:1336:A:H8	1.79	0.43
36:BA:1343:G:N2	36:BA:1405:U:N3	2.67	0.43
36:BA:1356:G:O2'	36:BA:1357:U:H5'	2.19	0.43
36:BA:1564:C:H2'	36:BA:1565:C:C6	2.53	0.43
36:BA:1802:A:N1	36:BA:1822:G:H1'	2.33	0.43
36:BA:1813:G:H4'	39:BD:44:ASN:O	2.18	0.43
36:BA:1816:G:H3'	39:BD:62:TYR:CE2	2.54	0.43
36:BA:1908:C:H42	36:BA:1922:G:H1	1.67	0.43
36:BA:2101:G:C6	36:BA:2102:U:C5	3.07	0.43
36:BA:2334:G:C5'	51:BS:13:ARG:HD3	2.48	0.43
36:BA:2661:G:H2'	36:BA:2662:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2842:G:H1	36:BA:2875:C:H42	1.67	0.43
36:BA:2870:C:H5''	50:BR:65:LEU:HD21	1.99	0.43
37:BB:56:G:O2'	37:BB:57:A:P	2.77	0.43
38:BC:82:LYS:HA	38:BC:85:GLU:HB3	2.00	0.43
39:BD:10:THR:C	39:BD:11:PRO:O	2.61	0.43
39:BD:132:PRO:HG3	39:BD:190:TYR:CE1	2.54	0.43
40:BE:101:ARG:HG3	40:BE:101:ARG:NH1	2.34	0.43
41:BF:70:THR:C	41:BF:72:ARG:H	2.25	0.43
42:BG:2:PRO:O	42:BG:3:LEU:HB2	2.17	0.43
42:BG:47:LYS:NZ	42:BG:81:LYS:HG3	2.32	0.43
42:BG:59:GLU:C	42:BG:61:ALA:H	2.26	0.43
46:BN:10:GLU:CD	46:BN:11:PRO:HD2	2.44	0.43
46:BN:128:HIS:O	46:BN:128:HIS:CG	2.72	0.43
48:BP:7:ARG:CB	48:BP:8:PRO:CD	2.94	0.43
48:BP:24:GLY:HA2	48:BP:33:ARG:NH1	2.33	0.43
51:BS:76:LYS:O	51:BS:79:ALA:N	2.52	0.43
52:BT:11:GLU:O	52:BT:14:TYR:CE1	2.72	0.43
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.34	0.43
53:BU:55:ARG:CZ	53:BU:55:ARG:HB2	2.49	0.43
53:BU:99:ALA:HB2	53:BU:106:PHE:CE1	2.53	0.43
53:BU:99:ALA:HB2	53:BU:106:PHE:CZ	2.53	0.43
54:BV:18:LEU:O	54:BV:19:LYS:HB3	2.19	0.43
54:BV:38:LEU:O	54:BV:51:VAL:HG12	2.18	0.43
55:BW:50:VAL:HG22	55:BW:105:VAL:HG23	1.99	0.43
56:BX:73:ARG:O	56:BX:74:PRO:C	2.61	0.43
57:BY:17:SER:HB3	57:BY:71:LYS:HB3	2.01	0.43
58:BZ:71:VAL:HG12	58:BZ:72:ARG:N	2.34	0.43
58:BZ:126:VAL:O	58:BZ:126:VAL:HG23	2.18	0.43
1:CA:35:G:C5	1:CA:36:C:C4	3.07	0.43
1:CA:148:G:H2'	1:CA:149:A:H8	1.83	0.43
1:CA:342:C:C4	1:CA:343:U:N3	2.87	0.43
1:CA:396:G:O2'	1:CA:398:C:OP1	2.23	0.43
1:CA:404:U:H5'	4:CD:122:ARG:CD	2.49	0.43
1:CA:406:G:C2	1:CA:407:G:C5	3.07	0.43
1:CA:540:G:C4	1:CA:541:G:C8	3.06	0.43
1:CA:584:G:H2'	1:CA:585:G:H8	1.78	0.43
1:CA:670:G:C2	1:CA:671:G:C4	3.07	0.43
1:CA:976:G:OP1	14:CN:32:SER:N	2.50	0.43
1:CA:976:G:P	14:CN:32:SER:H	2.41	0.43
1:CA:1010:G:H2'	1:CA:1011:G:C8	2.53	0.43
1:CA:1074:G:C1'	2:CB:104:ASN:HD22	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1211:U:H5'	1:CA:1212:U:OP1	2.19	0.43
1:CA:1245:A:N1	1:CA:1293:G:C6	2.87	0.43
1:CA:1348:U:H4'	9:CI:120:ARG:CG	2.49	0.43
1:CA:1372:U:H2'	1:CA:1373:G:C5'	2.49	0.43
1:CA:1442:G:C2'	1:CA:1442(B):A:C2	2.99	0.43
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.54	0.43
2:CB:42:ILE:HD13	2:CB:203:GLY:HA2	2.00	0.43
3:CC:64:VAL:CG1	3:CC:66:VAL:CG2	2.97	0.43
4:CD:6:GLY:O	4:CD:7:PRO:C	2.61	0.43
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.44	0.43
4:CD:93:PHE:O	4:CD:94:LEU:C	2.61	0.43
5:CE:76:ILE:HG12	5:CE:77:PRO:N	2.34	0.43
5:CE:98:THR:HG22	5:CE:99:GLY:N	2.33	0.43
5:CE:119:LEU:HD23	5:CE:119:LEU:HA	1.87	0.43
7:CG:118:VAL:CG2	7:CG:119:ARG:H	2.19	0.43
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.84	0.43
10:CJ:25:GLU:H	10:CJ:25:GLU:HG2	1.45	0.43
11:CK:57:THR:CG2	11:CK:60:ALA:HB3	2.49	0.43
13:CM:125:ARG:NH1	36:DA:1913:A:C8	2.87	0.43
15:CO:17:ARG:CD	15:CO:26:GLU:HG3	2.44	0.43
19:CS:45:VAL:O	19:CS:47:HIS:N	2.45	0.43
21:CU:7:ARG:O	21:CU:21:TYR:CD2	2.71	0.43
22:CV:1:G:H2'	22:CV:2:C:C6	2.53	0.43
22:CW:69:G:H2'	22:CW:70:G:H5'	2.01	0.43
24:C_Y:63:G:O2'	24:C_Y:64:C:H5'	2.19	0.43
25:CZ:169:PRO:O	25:CZ:171:ILE:CD1	2.67	0.43
25:CZ:382:GLU:OE2	25:CZ:402:LYS:HA	2.19	0.43
26:D0:16:SER:O	26:D0:17:GLN:C	2.61	0.43
28:D2:35:LEU:HA	28:D2:38:GLN:HG3	2.00	0.43
30:D4:14:ILE:N	30:D4:14:ILE:CD1	2.82	0.43
32:D6:41:PRO:O	32:D6:45:LYS:HB3	2.19	0.43
33:D7:36:GLN:C	33:D7:38:GLY:H	2.26	0.43
36:DA:64:A:H2'	36:DA:65:C:C6	2.54	0.43
36:DA:271(J):C:HO2'	36:DA:271(K):U:H6	1.64	0.43
36:DA:310:A:C4	36:DA:312:G:C8	3.07	0.43
36:DA:387:U:H6	36:DA:387:U:O5'	2.02	0.43
36:DA:478:A:C6	36:DA:480:A:C6	3.07	0.43
36:DA:479:A:N3	36:DA:481:G:O4'	2.51	0.43
36:DA:481:G:H1'	36:DA:506:G:H22	1.83	0.43
36:DA:610:G:H2'	36:DA:611:C:C6	2.54	0.43
36:DA:732:C:H2'	36:DA:733:G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:819:A:O2'	36:DA:820:A:H5'	2.18	0.43
36:DA:996:A:C2'	36:DA:997:G:O5'	2.67	0.43
36:DA:1192:G:N7	48:DP:29:LYS:NZ	2.62	0.43
36:DA:1247:A:OP1	41:DF:95:ARG:NH2	2.52	0.43
36:DA:1299:G:H5'	36:DA:1301:A:H1'	2.01	0.43
36:DA:1324:G:N1	36:DA:1328:G:N1	2.67	0.43
36:DA:1380:G:C4	36:DA:1381:G:N7	2.87	0.43
36:DA:1464:C:HO2'	36:DA:1528:A:H8	1.55	0.43
36:DA:2037:G:H8	36:DA:2037:G:O5'	2.02	0.43
36:DA:2841:C:H2'	36:DA:2842:G:H8	1.76	0.43
36:DA:2856:C:O2'	36:DA:2857:G:H5'	2.18	0.43
37:DB:52:A:P	37:DB:52:A:H8	2.41	0.43
37:DB:96:U:H2'	37:DB:97:G:C8	2.53	0.43
39:DD:210:GLY:C	39:DD:212:SER:N	2.77	0.43
39:DD:248:SER:CB	39:DD:249:PRO:CD	2.97	0.43
41:DF:116:ASP:O	41:DF:120:GLU:OE2	2.36	0.43
41:DF:123:LEU:HD12	41:DF:124:LEU:N	2.28	0.43
42:DG:106:LEU:HD12	42:DG:110:ALA:HB1	1.99	0.43
42:DG:129:GLY:O	42:DG:130:ASN:HB2	2.18	0.43
42:DG:178:PHE:O	42:DG:180:PHE:CE1	2.72	0.43
43:DH:38:SER:HA	43:DH:39:PRO:HD3	1.78	0.43
43:DH:52:VAL:HG12	43:DH:65:HIS:ND1	2.34	0.43
46:DN:128:HIS:CG	46:DN:128:HIS:O	2.72	0.43
47:DO:63:VAL:HG22	47:DO:83:ALA:O	2.19	0.43
49:DQ:136:ALA:C	49:DQ:138:ASP:N	2.75	0.43
51:DS:76:LYS:O	51:DS:79:ALA:N	2.51	0.43
53:DU:17:ILE:CA	53:DU:20:LEU:HD23	2.48	0.43
53:DU:59:ARG:C	53:DU:61:TRP:N	2.77	0.43
54:DV:71:LEU:HD21	54:DV:84:LYS:HG2	1.99	0.43
55:DW:28:SER:HA	55:DW:70:TYR:CB	2.49	0.43
58:DZ:67:LEU:N	58:DZ:67:LEU:HD12	2.33	0.43
1:AA:64:G:H4'	1:AA:65:U:C5'	2.49	0.43
1:AA:363:A:N6	1:AA:364:A:N1	2.67	0.43
1:AA:375:U:C4	1:AA:376:G:N7	2.87	0.43
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.43
1:AA:553:A:H2'	1:AA:554:C:H6	1.82	0.43
1:AA:689:C:C2'	1:AA:690:G:H5'	2.49	0.43
1:AA:730:G:H2'	1:AA:731:G:O4'	2.19	0.43
1:AA:1228:C:OP2	13:AM:111:LYS:HE2	2.19	0.43
1:AA:1258:G:O5'	1:AA:1258:G:H8	2.01	0.43
1:AA:1470:G:C2'	1:AA:1471:G:C8	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:155:LEU:CD2	2:AB:157:ARG:O	2.66	0.43
2:AB:168:THR:O	2:AB:169:LYS:C	2.60	0.43
4:AD:79:PHE:CA	4:AD:93:PHE:HE2	2.31	0.43
4:AD:137:SER:O	4:AD:138:TYR:C	2.62	0.43
6:AF:62:TRP:CD1	18:AR:35:ARG:NH1	2.87	0.43
7:AG:87:VAL:HG21	7:AG:154:TYR:HB2	2.01	0.43
7:AG:91:VAL:O	7:AG:92:SER:C	2.61	0.43
7:AG:152:ALA:O	7:AG:155:ARG:HG3	2.19	0.43
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.18	0.43
10:AJ:71:LEU:HD12	10:AJ:71:LEU:C	2.43	0.43
13:AM:28:ALA:C	13:AM:30:ALA:N	2.76	0.43
15:AO:53:HIS:O	15:AO:54:ARG:C	2.62	0.43
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	2.00	0.43
20:AT:43:LEU:HB3	20:AT:48:LYS:CG	2.48	0.43
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.34	0.43
22:AV:53:G:O2'	22:AV:54:U:H5'	2.18	0.43
25:AZ:97:ALA:CA	25:AZ:126:VAL:CG1	2.97	0.43
25:AZ:99:MET:HG3	25:AZ:128:VAL:HG22	2.01	0.43
25:AZ:182:MET:HE1	25:AZ:188:THR:CB	2.48	0.43
27:B1:3:LYS:CD	36:BA:1364:G:N7	2.82	0.43
27:B1:32:LYS:HB2	36:BA:387:U:O3'	2.18	0.43
28:B2:26:ARG:NH2	36:BA:137:C:O2'	2.52	0.43
32:B6:5:VAL:HG21	36:BA:2283:C:C5'	2.48	0.43
36:BA:310:A:C4	36:BA:312:G:C8	3.07	0.43
36:BA:695:G:N2	36:BA:696:G:H1'	2.34	0.43
36:BA:956:G:P	49:BQ:87:LYS:HG3	2.58	0.43
36:BA:1493:C:C4	36:BA:2206:G:O2'	2.70	0.43
36:BA:1666:G:O3'	47:BO:6:THR:HG23	2.18	0.43
36:BA:1747:G:H2'	36:BA:1747(A):G:C8	2.54	0.43
36:BA:1829:A:N6	36:BA:1977:A:N6	2.66	0.43
36:BA:1982:C:H2'	36:BA:1983:C:C6	2.54	0.43
36:BA:2092:U:H4'	36:BA:2093:G:C5'	2.47	0.43
36:BA:2112:G:C2	36:BA:2113:U:O4'	2.72	0.43
36:BA:2126:A:O2'	36:BA:2127:G:OP2	2.37	0.43
36:BA:2842:G:H1	36:BA:2875:C:N4	2.17	0.43
37:BB:107:G:O2'	37:BB:108:U:H5'	2.18	0.43
38:BC:221:SER:C	38:BC:222:VAL:HG23	2.44	0.43
39:BD:62:TYR:HE1	39:BD:64:ILE:HA	1.83	0.43
39:BD:83:GLU:O	39:BD:92:ILE:HD13	2.19	0.43
39:BD:96:HIS:CE1	39:BD:102:LYS:CE	3.02	0.43
40:BE:95:ILE:N	40:BE:95:ILE:CD1	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:18:ARG:O	48:BP:20:GLY:N	2.52	0.43
48:BP:85:LEU:O	48:BP:89:ALA:HB2	2.19	0.43
49:BQ:39:PRO:HA	49:BQ:99:PRO:HD3	2.01	0.43
49:BQ:63:LYS:CE	49:BQ:65:PHE:HE1	2.31	0.43
51:BS:73:LEU:C	51:BS:73:LEU:CD2	2.92	0.43
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	2.00	0.43
52:BT:109:GLU:HA	52:BT:112:ARG:HD3	1.99	0.43
56:BX:26:TYR:N	56:BX:26:TYR:CD1	2.86	0.43
1:CA:9:G:C5'	5:CE:122:GLU:OE1	2.67	0.43
1:CA:110:C:O2'	16:CP:25:ARG:O	2.37	0.43
1:CA:255:G:H1'	17:CQ:16:GLN:HE22	1.82	0.43
1:CA:355:C:C4'	1:CA:388:G:HO2'	2.32	0.43
1:CA:937:A:C2	1:CA:1379:G:C6	3.06	0.43
1:CA:961:U:O2'	1:CA:962:C:O5'	2.36	0.43
1:CA:995:C:O2'	1:CA:996:A:P	2.77	0.43
1:CA:1069:C:H42	1:CA:1106:G:H1	1.67	0.43
1:CA:1145:C:O2'	1:CA:1146:A:O5'	2.37	0.43
1:CA:1150:U:O2'	10:CJ:41:PRO:CD	2.66	0.43
1:CA:1249:C:H6	1:CA:1249:C:C5'	2.26	0.43
1:CA:1282:C:C2	1:CA:1283:G:N7	2.87	0.43
1:CA:1350:A:O2'	1:CA:1351:U:H5'	2.19	0.43
1:CA:1507:A:C8	1:CA:1507:A:C5'	3.01	0.43
2:CB:92:TYR:HE1	2:CB:150:SER:HB2	1.83	0.43
3:CC:34:LEU:CD2	3:CC:38:ARG:HE	2.31	0.43
3:CC:56:ASP:O	3:CC:57:ILE:HG13	2.19	0.43
4:CD:100:ARG:HG3	4:CD:100:ARG:HH11	1.82	0.43
5:CE:20:GLN:HE21	5:CE:20:GLN:C	2.27	0.43
6:CF:11:ASN:O	6:CF:12:PRO:C	2.62	0.43
7:CG:9:VAL:HG22	7:CG:94:ARG:HH11	1.83	0.43
7:CG:31:MET:SD	7:CG:36:LYS:N	2.92	0.43
7:CG:61:VAL:O	7:CG:63:LYS:N	2.50	0.43
8:CH:39:LEU:HD13	8:CH:39:LEU:HA	1.80	0.43
9:CI:79:LEU:HD22	9:CI:101:PHE:O	2.19	0.43
11:CK:14:VAL:C	11:CK:16:SER:N	2.75	0.43
13:CM:15:VAL:CG2	13:CM:16:ASP:N	2.82	0.43
13:CM:79:LYS:O	13:CM:82:MET:CG	2.67	0.43
14:CN:48:ALA:N	14:CN:53:LEU:CD1	2.80	0.43
19:CS:22:LEU:O	19:CS:22:LEU:HD13	2.18	0.43
20:CT:19:SER:C	20:CT:21:LYS:H	2.27	0.43
21:CU:19:GLY:H	21:CU:22:ARG:HB3	1.84	0.43
22:CV:70:G:C2'	22:CV:71:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:224:PRO:O	25:CZ:240:GLY:HA3	2.18	0.43
25:CZ:315:LYS:HG2	25:CZ:373:GLU:HG3	2.01	0.43
27:D1:50:ARG:CZ	36:DA:2200:C:C5'	2.97	0.43
29:D3:8:LEU:CD2	29:D3:8:LEU:O	2.67	0.43
34:D8:28:GLY:C	34:D8:32:LEU:HD23	2.44	0.43
34:D8:53:PRO:C	34:D8:55:ALA:N	2.72	0.43
36:DA:212:G:C2'	36:DA:213:A:H5'	2.49	0.43
36:DA:360:G:C4	36:DA:361:G:C8	3.07	0.43
36:DA:598:G:H2'	36:DA:599:G:C1'	2.49	0.43
36:DA:643:A:O2'	36:DA:644:A:H5'	2.19	0.43
36:DA:729:G:C8	39:DD:208:LYS:HD2	2.53	0.43
36:DA:755:C:H2'	36:DA:756:C:H6	1.82	0.43
36:DA:943:U:OP2	48:DP:38:GLN:CG	2.67	0.43
36:DA:1200:C:C2	36:DA:1246:A:C2	3.07	0.43
36:DA:1244:G:H5'	36:DA:1244:G:C8	2.54	0.43
36:DA:1343:G:N2	36:DA:1405:U:N3	2.66	0.43
36:DA:1345:C:H2'	36:DA:1346:G:C5'	2.46	0.43
36:DA:1567:A:C5'	39:DD:58:HIS:HD2	2.31	0.43
36:DA:2022:U:O2'	36:DA:2617:C:C5'	2.60	0.43
36:DA:2112:G:C2	36:DA:2113:U:O4'	2.72	0.43
36:DA:2635:C:C2'	36:DA:2636:U:O5'	2.67	0.43
37:DB:14:U:OP2	37:DB:70:C:O2'	2.36	0.43
37:DB:40:U:C3'	37:DB:41:U:H5''	2.48	0.43
38:DC:28:LEU:C	38:DC:28:LEU:CD2	2.92	0.43
39:DD:106:ILE:HD11	39:DD:196:VAL:HG22	2.00	0.43
39:DD:273:ARG:CG	39:DD:273:ARG:NH1	2.82	0.43
40:DE:82:ARG:HD2	40:DE:82:ARG:HA	1.74	0.43
40:DE:167:VAL:O	40:DE:167:VAL:HG22	2.19	0.43
41:DF:7:TYR:CD2	41:DF:16:GLY:HA3	2.54	0.43
41:DF:93:LYS:O	41:DF:94:PRO:C	2.59	0.43
42:DG:34:LEU:HA	42:DG:161:THR:HA	2.01	0.43
42:DG:41:GLN:CD	42:DG:60:LEU:HD23	2.44	0.43
42:DG:79:ASN:O	42:DG:80:PHE:HB2	2.18	0.43
43:DH:108:GLY:O	43:DH:109:PHE:C	2.61	0.43
43:DH:155:SER:C	43:DH:157:TYR:N	2.77	0.43
46:DN:132:ALA:O	46:DN:133:GLN:CB	2.65	0.43
48:DP:75:ILE:H	48:DP:75:ILE:CD1	2.29	0.43
50:DR:10:LEU:O	50:DR:11:ASN:CB	2.65	0.43
50:DR:102:GLU:O	50:DR:103:ARG:C	2.61	0.43
52:DT:88:ILE:HG22	52:DT:89:VAL:CG2	2.40	0.43
53:DU:37:GLU:HA	53:DU:40:PHE:HD1	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DU:59:ARG:O	53:DU:61:TRP:N	2.52	0.43
55:DW:64:MET:CB	55:DW:69:LEU:HD21	2.49	0.43
55:DW:82:LEU:HB3	55:DW:84:ARG:HH12	1.82	0.43
1:AA:163:C:H2'	1:AA:164:U:O4'	2.18	0.43
1:AA:264:U:H2'	1:AA:265:G:C8	2.53	0.43
1:AA:382:A:C2	1:AA:383:A:C4	3.07	0.43
1:AA:676:A:O2'	1:AA:677:U:H5'	2.18	0.43
1:AA:704:A:O2'	1:AA:705:U:H5'	2.19	0.43
1:AA:1095:U:C5'	1:AA:1109:C:O2	2.67	0.43
1:AA:1269:A:H2'	1:AA:1270:C:C5'	2.48	0.43
1:AA:1359:C:OP2	14:AN:35:ARG:NH1	2.52	0.43
1:AA:1372:U:H2'	1:AA:1373:G:O5'	2.18	0.43
2:AB:33:TYR:CB	2:AB:43:ASP:HB2	2.45	0.43
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.48	0.43
2:AB:100:GLY:C	2:AB:102:LEU:H	2.27	0.43
2:AB:167:PRO:O	2:AB:168:THR:C	2.62	0.43
3:AC:13:GLY:O	3:AC:14:ILE:CG2	2.67	0.43
3:AC:117:ALA:O	3:AC:118:GLN:C	2.62	0.43
3:AC:139:GLN:OE1	3:AC:139:GLN:HA	2.19	0.43
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.87	0.43
4:AD:132:ARG:HG2	4:AD:132:ARG:NH1	2.32	0.43
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.27	0.43
6:AF:28:ARG:O	6:AF:31:GLU:HB2	2.19	0.43
7:AG:27:ILE:HG23	7:AG:40:ALA:HA	2.01	0.43
9:AI:42:ARG:O	9:AI:45:ALA:HB3	2.19	0.43
9:AI:78:LYS:HE3	9:AI:101:PHE:CE2	2.54	0.43
11:AK:64:ALA:O	11:AK:65:ALA:C	2.62	0.43
12:AL:27:LEU:O	12:AL:28:LYS:C	2.62	0.43
14:AN:21:TYR:HE2	14:AN:23:ARG:NH2	2.16	0.43
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.18	0.43
14:AN:47:LEU:C	14:AN:49:HIS:H	2.27	0.43
15:AO:67:LEU:N	15:AO:67:LEU:HD23	2.33	0.43
16:AP:20:VAL:CG2	16:AP:35:LYS:HA	2.31	0.43
20:AT:38:LYS:O	20:AT:40:ALA:N	2.52	0.43
20:AT:77:ALA:C	20:AT:79:ARG:N	2.70	0.43
22:AW:49:C:O2'	22:AW:50:U:H6	2.02	0.43
22:AW:59:U:H5'	22:AW:60:U:C5	2.54	0.43
25:AZ:67:HIS:CE1	25:AZ:80:VAL:HG22	2.54	0.43
25:AZ:286:VAL:HG23	25:AZ:287:GLY:H	1.84	0.43
26:B0:20:ARG:CG	26:B0:20:ARG:HH11	2.32	0.43
26:B0:56:ASP:OD1	26:B0:56:ASP:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:23:LYS:HB3	27:B1:29:GLY:O	2.19	0.43
28:B2:5:GLU:C	28:B2:9:GLN:CD	2.86	0.43
35:B9:30:PRO:O	35:B9:32:HIS:N	2.52	0.43
36:BA:45:C:H2'	36:BA:47:C:C6	2.53	0.43
36:BA:83:G:N1	36:BA:102:G:H2'	2.34	0.43
36:BA:195:A:N6	36:BA:198:C:OP2	2.52	0.43
36:BA:212:G:C2'	36:BA:213:A:H5'	2.48	0.43
36:BA:440:G:C8	36:BA:440:G:O5'	2.72	0.43
36:BA:478:A:C6	36:BA:480:A:C6	3.07	0.43
36:BA:481:G:H1'	36:BA:506:G:H22	1.83	0.43
36:BA:1263:U:C4	36:BA:1264:G:C6	3.07	0.43
36:BA:1328:G:H4'	36:BA:1329:U:C5	2.53	0.43
36:BA:1348:G:C2'	36:BA:1349:A:H5''	2.49	0.43
36:BA:1413:G:H2'	36:BA:1414:G:C8	2.54	0.43
36:BA:1541:G:N3	36:BA:1541:G:O4'	2.52	0.43
36:BA:1604:C:O2'	36:BA:1605:C:H5'	2.19	0.43
36:BA:1661:G:C6	36:BA:2000:G:N1	2.86	0.43
36:BA:1786:A:O2'	36:BA:1938:A:N6	2.52	0.43
36:BA:1909:C:C2'	36:BA:1910:G:H5'	2.49	0.43
36:BA:2052:G:C6	36:BA:2053:G:N7	2.87	0.43
36:BA:2185:C:H6	36:BA:2185:C:OP2	2.02	0.43
36:BA:2308:G:N2	42:BG:79:ASN:CB	2.82	0.43
36:BA:2351:G:N1	36:BA:2365:G:C6	2.87	0.43
36:BA:2843:G:N2	36:BA:2875:C:C4	2.87	0.43
38:BC:107:TRP:O	38:BC:108:MET:HE3	2.19	0.43
38:BC:140:PRO:O	38:BC:142:ALA:N	2.51	0.43
38:BC:150:GLY:O	38:BC:154:ARG:HG2	2.17	0.43
38:BC:199:HIS:ND1	38:BC:199:HIS:N	2.66	0.43
40:BE:23:VAL:CA	40:BE:184:VAL:O	2.65	0.43
41:BF:11:VAL:C	41:BF:13:SER:N	2.72	0.43
41:BF:39:TRP:CE2	41:BF:43:LYS:HE2	2.53	0.43
41:BF:121:GLY:C	41:BF:123:LEU:H	2.26	0.43
42:BG:62:LEU:O	42:BG:143:GLU:OE2	2.37	0.43
42:BG:67:LYS:C	42:BG:92:VAL:HG23	2.44	0.43
42:BG:114:ILE:HG13	42:BG:135:LEU:CD2	2.36	0.43
43:BH:98:LEU:HB2	43:BH:125:VAL:CG2	2.49	0.43
43:BH:163:TYR:O	43:BH:164:TYR:O	2.37	0.43
46:BN:3:THR:C	46:BN:4:TYR:CD1	2.97	0.43
48:BP:61:ARG:H	48:BP:61:ARG:HG3	1.28	0.43
48:BP:71:VAL:H	48:BP:72:PRO:CD	2.31	0.43
49:BQ:44:ALA:N	49:BQ:45:GLN:HE21	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:110:THR:OG1	49:BQ:112:GLU:HB3	2.18	0.43
50:BR:2:ARG:HG3	50:BR:2:ARG:HH11	1.83	0.43
52:BT:29:ARG:HD2	52:BT:29:ARG:HA	1.77	0.43
53:BU:14:HIS:HA	53:BU:17:ILE:HD13	2.01	0.43
53:BU:86:ALA:HB2	53:BU:116:ALA:HB2	2.01	0.43
55:BW:14:PRO:CG	55:BW:78:GLU:CD	2.90	0.43
57:BY:80:GLY:O	57:BY:81:LYS:C	2.61	0.43
58:BZ:96:VAL:CG2	58:BZ:97:GLU:H	1.95	0.43
58:BZ:167:PRO:O	58:BZ:168:GLU:HB2	2.18	0.43
58:BZ:175:VAL:HB	58:BZ:176:PRO:CD	2.49	0.43
1:CA:174:C:H6	1:CA:174:C:O5'	2.02	0.43
1:CA:190:U:H2'	1:CA:191:G:H8	1.84	0.43
1:CA:279:A:H4'	1:CA:281:G:C8	2.54	0.43
1:CA:704:A:C2'	1:CA:705:U:H5'	2.48	0.43
1:CA:949:A:N7	1:CA:950:U:C5	2.87	0.43
1:CA:1031:G:O2'	1:CA:1032:G:H5'	2.19	0.43
1:CA:1050:G:C2	1:CA:1209:C:O2	2.71	0.43
1:CA:1148:U:H4'	9:CI:14:VAL:CG1	2.47	0.43
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.84	0.43
1:CA:1343:G:C4'	9:CI:121:ARG:HH12	2.32	0.43
1:CA:1430:C:C2	1:CA:1471:G:C2	3.06	0.43
1:CA:1483:A:H1'	36:DA:1948:G:H1'	2.00	0.43
2:CB:17:PHE:HD1	2:CB:44:LEU:HD21	1.84	0.43
2:CB:201:ILE:O	2:CB:201:ILE:HG22	2.19	0.43
2:CB:203:GLY:O	2:CB:204:ASN:C	2.62	0.43
3:CC:72:LYS:C	3:CC:74:GLY:N	2.77	0.43
7:CG:22:LEU:CD2	7:CG:62:PHE:CE2	3.02	0.43
7:CG:61:VAL:O	7:CG:64:GLN:N	2.52	0.43
9:CI:7:THR:HG22	9:CI:8:GLY:N	2.29	0.43
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.44	0.43
11:CK:90:GLY:O	11:CK:94:ALA:N	2.34	0.43
11:CK:116:HIS:O	11:CK:117:ASN:HB2	2.17	0.43
16:CP:20:VAL:CG2	16:CP:35:LYS:HA	2.33	0.43
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.19	0.43
19:CS:43:GLU:C	19:CS:45:VAL:HG22	2.44	0.43
20:CT:70:SER:HA	20:CT:73:HIS:NE2	2.33	0.43
26:D0:20:ARG:HG2	26:D0:20:ARG:HH11	1.84	0.43
26:D0:56:ASP:OD1	26:D0:56:ASP:C	2.61	0.43
34:D8:28:GLY:N	36:DA:2393:A:OP1	2.51	0.43
35:D9:8:LYS:NZ	36:DA:1032:A:OP1	2.42	0.43
36:DA:20:C:C2	36:DA:21:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:85:G:H1	36:DA:97:C:H42	1.67	0.43
36:DA:321:G:C1'	41:DF:168:ARG:NH2	2.82	0.43
36:DA:793:A:N7	36:DA:2072:G:H5''	2.34	0.43
36:DA:877:U:O2'	36:DA:878:A:C5'	2.66	0.43
36:DA:966:G:H2'	36:DA:967:C:H6	1.79	0.43
36:DA:1259:G:H2'	36:DA:1260:G:C8	2.53	0.43
36:DA:1370:C:C3'	36:DA:1371:G:H8	2.24	0.43
36:DA:1476:C:H2'	36:DA:1477:A:C8	2.54	0.43
36:DA:1669:A:OP2	36:DA:2550:G:OP1	2.37	0.43
36:DA:1750:G:N3	36:DA:2860:A:H2	2.17	0.43
36:DA:1790:C:H5''	36:DA:1791:A:OP1	2.19	0.43
36:DA:1899:G:O2'	36:DA:1900:A:H5''	2.19	0.43
36:DA:2201:C:C4	36:DA:2202:C:N4	2.87	0.43
36:DA:2261:C:C1'	36:DA:2388:A:H1'	2.49	0.43
36:DA:2262:U:O4	36:DA:2279:G:C6	2.72	0.43
36:DA:2334:G:N3	51:DS:18:ILE:HD13	2.34	0.43
36:DA:2464:C:O2'	36:DA:2465:C:O5'	2.37	0.43
36:DA:2580:U:H3'	36:DA:2581:G:N3	2.34	0.43
36:DA:2587:A:H8	36:DA:2587:A:O5'	2.01	0.43
36:DA:2861:G:C2'	36:DA:2862:G:H5'	2.48	0.43
36:DA:2864:G:O2'	36:DA:2865:U:H5'	2.18	0.43
38:DC:39:GLU:O	38:DC:177:LYS:HA	2.18	0.43
38:DC:75:LEU:HB2	38:DC:93:TYR:HB2	2.00	0.43
38:DC:91:ALA:HB3	38:DC:94:VAL:HG22	2.01	0.43
38:DC:100:ILE:H	38:DC:100:ILE:HG13	1.60	0.43
38:DC:140:PRO:O	38:DC:142:ALA:N	2.52	0.43
42:DG:54:GLU:C	42:DG:56:ALA:N	2.76	0.43
42:DG:138:GLN:OE1	42:DG:153:ARG:CG	2.66	0.43
43:DH:97:ARG:NH2	43:DH:99:VAL:HG21	2.34	0.43
45:DK:135:UNK:O	45:DK:136:UNK:CB	2.67	0.43
46:DN:65:LYS:HB3	46:DN:65:LYS:HZ2	1.82	0.43
46:DN:96:GLU:N	46:DN:96:GLU:CD	2.77	0.43
46:DN:102:ALA:O	46:DN:106:MET:HE3	2.19	0.43
48:DP:16:ARG:NH1	48:DP:16:ARG:CB	2.81	0.43
49:DQ:70:PRO:C	49:DQ:94:VAL:O	2.62	0.43
50:DR:77:ARG:O	50:DR:79:LEU:N	2.52	0.43
50:DR:94:TYR:CD2	50:DR:94:TYR:N	2.83	0.43
51:DS:56:LEU:O	51:DS:58:LEU:N	2.51	0.43
52:DT:31:SER:O	52:DT:32:TYR:O	2.36	0.43
54:DV:1:MET:O	54:DV:2:PHE:HB2	2.18	0.43
57:DY:51:VAL:C	57:DY:53:PRO:HD3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:34:C:C1'	12:AL:32:PHE:CE2	3.02	0.42
1:AA:51:A:C6	1:AA:353:A:C2	3.07	0.42
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.84	0.42
1:AA:690:G:O2'	1:AA:691:G:H5'	2.19	0.42
1:AA:790:A:O2'	1:AA:791:G:H5'	2.19	0.42
1:AA:802:A:H2'	1:AA:803:G:O4'	2.19	0.42
1:AA:865:A:H2'	1:AA:866:C:C5'	2.49	0.42
1:AA:955:U:H3	1:AA:1225:A:H61	1.65	0.42
1:AA:975:A:H8	1:AA:975:A:H5'	1.84	0.42
1:AA:1004:A:N6	1:AA:1035:A:C6	2.86	0.42
1:AA:1004:A:H5''	1:AA:1025:U:C5	2.54	0.42
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.18	0.42
1:AA:1148:U:H2'	1:AA:1149:C:H5'	2.00	0.42
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	2.00	0.42
1:AA:1504:G:H1'	1:AA:1505:G:OP2	2.19	0.42
2:AB:158:LEU:HA	2:AB:159:PRO:HD3	1.78	0.42
3:AC:35:GLU:C	3:AC:37:GLN:N	2.75	0.42
3:AC:57:ILE:O	3:AC:57:ILE:HG22	2.19	0.42
3:AC:69:HIS:CE1	3:AC:104:GLN:OE1	2.72	0.42
3:AC:99:VAL:O	3:AC:99:VAL:HG23	2.19	0.42
3:AC:121:ALA:HB2	3:AC:187:ALA:CB	2.49	0.42
3:AC:180:ALA:O	3:AC:203:PHE:HE1	2.02	0.42
4:AD:79:PHE:CE2	4:AD:207:TYR:CD1	3.06	0.42
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.19	0.42
7:AG:102:ARG:O	7:AG:103:TRP:C	2.61	0.42
7:AG:136:LYS:O	7:AG:137:LYS:C	2.62	0.42
8:AH:14:ARG:O	8:AH:17:THR:OG1	2.33	0.42
10:AJ:43:ARG:HH11	10:AJ:43:ARG:HG3	1.84	0.42
10:AJ:47:PHE:CZ	14:AN:37:PHE:CE2	3.07	0.42
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	2.01	0.42
11:AK:95:ILE:O	11:AK:96:ARG:C	2.61	0.42
13:AM:3:ARG:HH22	42:BG:140:ILE:HA	1.84	0.42
13:AM:70:LEU:HD22	13:AM:71:ARG:N	2.34	0.42
13:AM:72:ALA:O	13:AM:73:GLU:C	2.60	0.42
16:AP:81:ARG:HE	16:AP:81:ARG:HB2	1.73	0.42
19:AS:66:MET:CG	19:AS:66:MET:O	2.67	0.42
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.18	0.42
22:AV:58:A:N6	22:AV:61:C:C4	2.87	0.42
24:AY:70:A:C2	24:AY:71:G:C8	3.07	0.42
25:AZ:16:THR:O	25:AZ:17:ILE:HG23	2.19	0.42
25:AZ:242:ILE:HD12	25:AZ:281:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:20:ARG:HH11	26:B0:20:ARG:HG2	1.83	0.42
31:B5:3:LYS:HE3	31:B5:3:LYS:CA	2.39	0.42
32:B6:54:ILE:OXT	32:B6:54:ILE:HG23	2.19	0.42
33:B7:19:ARG:HD3	36:BA:125:G:P	2.59	0.42
35:B9:1:MET:HE1	36:BA:2477:C:H6	1.83	0.42
36:BA:207:A:H2'	36:BA:208:C:C6	2.54	0.42
36:BA:251:A:H2'	36:BA:252:G:H5'	2.01	0.42
36:BA:329:G:P	57:BY:71:LYS:HZ1	2.42	0.42
36:BA:348:G:C2	36:BA:349:G:C4	3.07	0.42
36:BA:410:G:H1	36:BA:417:C:N4	2.12	0.42
36:BA:455:C:N3	36:BA:473:G:H5'	2.34	0.42
36:BA:463:G:C6	36:BA:467:G:O6	2.72	0.42
36:BA:530:G:H1'	36:BA:532:A:N7	2.34	0.42
36:BA:605:C:N4	36:BA:623:G:O6	2.52	0.42
36:BA:654(D):G:H2'	36:BA:654(E):G:C8	2.54	0.42
36:BA:656:G:C6	36:BA:657:U:C4	3.07	0.42
36:BA:723:G:C6	36:BA:724:U:C4	3.07	0.42
36:BA:816:C:H2'	36:BA:817:C:H6	1.83	0.42
36:BA:960:A:N6	36:BA:962:G:C2	2.87	0.42
36:BA:1098:A:H2'	36:BA:1099:G:O4'	2.19	0.42
36:BA:1113:U:H2'	36:BA:1114:G:C8	2.53	0.42
36:BA:1186:G:H2'	36:BA:1187:G:H5'	2.01	0.42
36:BA:1427:A:N6	36:BA:1571:A:OP2	2.50	0.42
36:BA:1474:C:H5'	36:BA:1475:G:P	2.59	0.42
36:BA:1475:G:C2	36:BA:1517:G:N3	2.86	0.42
36:BA:1631(A):A:O2'	36:BA:1632:A:H5'	2.19	0.42
36:BA:1759:A:O2'	36:BA:1760:A:H5'	2.19	0.42
36:BA:1776:G:C2	36:BA:1777:U:C6	3.07	0.42
36:BA:1860:G:H2'	36:BA:1861:G:C8	2.54	0.42
36:BA:2028:U:C2'	36:BA:2029:G:O4'	2.63	0.42
36:BA:2250:G:N3	36:BA:2250:G:O4'	2.52	0.42
36:BA:2255:G:C4	36:BA:2256:G:C8	3.07	0.42
36:BA:2414:G:H2'	36:BA:2414:G:N3	2.34	0.42
36:BA:2442:C:O2	36:BA:2442:C:C2'	2.66	0.42
36:BA:2524:G:C5'	36:BA:2524:G:H8	2.32	0.42
36:BA:2776:A:H4'	36:BA:2778:A:C5'	2.49	0.42
36:BA:2864:G:O2'	36:BA:2865:U:H5'	2.18	0.42
38:BC:20:TYR:CD1	38:BC:20:TYR:N	2.82	0.42
38:BC:99:ILE:C	38:BC:101:GLN:N	2.77	0.42
39:BD:35:LYS:HD2	39:BD:36:PRO:CA	2.49	0.42
43:BH:19:VAL:CG1	43:BH:20:ALA:N	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BH:68:THR:HA	43:BH:71:LEU:HG	2.01	0.42
47:BO:71:ARG:NE	47:BO:105:GLU:CD	2.77	0.42
49:BQ:87:LYS:O	49:BQ:88:GLY:C	2.62	0.42
50:BR:69:ASP:N	50:BR:69:ASP:OD2	2.52	0.42
51:BS:63:THR:O	51:BS:65:VAL:N	2.52	0.42
52:BT:27:THR:O	52:BT:47:GLY:O	2.37	0.42
54:BV:63:GLY:O	54:BV:64:HIS:O	2.36	0.42
57:BY:33:LYS:C	57:BY:35:TYR:N	2.76	0.42
57:BY:46:LYS:O	57:BY:47:LYS:HG3	2.17	0.42
57:BY:88:LYS:HD2	57:BY:88:LYS:N	2.33	0.42
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG1	2.48	0.42
1:CA:40:C:H42	1:CA:403:C:N4	2.17	0.42
1:CA:60:A:P	1:CA:60:A:H8	2.42	0.42
1:CA:189(H):G:O2'	1:CA:189(I):G:O5'	2.37	0.42
1:CA:363:A:C6	1:CA:364:A:C6	3.07	0.42
1:CA:508:C:HO2'	1:CA:509:A:P	2.42	0.42
1:CA:511:C:C4	1:CA:541:G:N2	2.87	0.42
1:CA:522:C:H1'	1:CA:536:C:H5'	2.01	0.42
1:CA:532:A:H3'	1:CA:533:A:H5'	2.00	0.42
1:CA:533:A:O2'	1:CA:535:A:OP2	2.37	0.42
1:CA:539:A:H2'	1:CA:540:G:H8	1.84	0.42
1:CA:663:A:C2	1:CA:664:G:C4	3.07	0.42
1:CA:670:G:N2	1:CA:671:G:C4	2.86	0.42
1:CA:676:A:H5''	11:CK:113:PRO:CB	2.49	0.42
1:CA:824:C:O2'	1:CA:825:G:H5'	2.19	0.42
1:CA:900:A:H2'	1:CA:901:A:C8	2.54	0.42
1:CA:965:A:HO2'	1:CA:966:G:H5''	1.84	0.42
1:CA:1469:G:N1	1:CA:1470:G:C5	2.87	0.42
2:CB:155:LEU:C	2:CB:157:ARG:H	2.27	0.42
3:CC:7:PRO:HG2	3:CC:184:TYR:CD2	2.54	0.42
3:CC:55:VAL:HG12	3:CC:55:VAL:O	2.19	0.42
3:CC:77:ILE:HG23	3:CC:84:ILE:HG22	2.00	0.42
4:CD:43:HIS:O	4:CD:45:GLN:HG2	2.19	0.42
5:CE:10:MET:HG3	5:CE:13:ILE:HD11	2.01	0.42
5:CE:64:ARG:O	5:CE:66:MET:HE2	2.18	0.42
9:CI:6:GLY:HA3	9:CI:84:ALA:CB	2.46	0.42
9:CI:80:GLY:O	9:CI:84:ALA:CB	2.67	0.42
10:CJ:21:GLN:C	10:CJ:23:ILE:N	2.75	0.42
11:CK:31:THR:HA	11:CK:42:TRP:CB	2.50	0.42
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.49	0.42
12:CL:54:LYS:HD2	12:CL:54:LYS:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:48:ALA:H	14:CN:53:LEU:HD12	1.81	0.42
15:CO:34:LEU:HD12	15:CO:34:LEU:C	2.43	0.42
19:CS:4:SER:O	19:CS:5:LEU:C	2.61	0.42
19:CS:22:LEU:HD13	19:CS:27:GLU:HB2	2.00	0.42
22:CW:17:C:N3	36:DA:2179:C:H5'	2.33	0.42
22:CW:24:G:C5	22:CW:25:C:C4	3.07	0.42
24:CY:70:A:C2	24:CY:71:G:N7	2.87	0.42
25:CZ:272:MET:O	25:CZ:273:HIS:C	2.61	0.42
31:D5:37:LYS:HE3	31:D5:37:LYS:HB2	1.86	0.42
31:D5:40:LYS:NZ	31:D5:46:CYS:H	2.17	0.42
32:D6:12:GLU:HG3	32:D6:23:THR:HG22	2.01	0.42
34:D8:34:TRP:CA	36:DA:2420:C:OP1	2.66	0.42
36:DA:271(U):G:C2'	36:DA:271(V):G:H5'	2.48	0.42
36:DA:280:C:H42	36:DA:360:G:H1	1.67	0.42
36:DA:298:G:H8	36:DA:298:G:OP2	2.02	0.42
36:DA:371:A:C6	36:DA:401:A:C8	3.07	0.42
36:DA:381:G:O2'	36:DA:382:G:H5'	2.18	0.42
36:DA:410:G:H1	36:DA:417:C:N4	2.14	0.42
36:DA:414:C:H5''	36:DA:1879:C:O2'	2.19	0.42
36:DA:476:G:H2'	36:DA:478:A:OP2	2.19	0.42
36:DA:526:A:N6	36:DA:2626:C:H4'	2.34	0.42
36:DA:978:G:H2'	36:DA:979:G:O4'	2.19	0.42
36:DA:1012:U:H5	46:DN:28:THR:HG21	1.80	0.42
36:DA:1041:C:C2'	36:DA:1042:G:H5'	2.48	0.42
36:DA:1205:U:H4'	36:DA:1206:G:OP2	2.19	0.42
36:DA:1406:U:N3	36:DA:1597:A:C2	2.87	0.42
36:DA:1487:G:C5	36:DA:1488:G:C8	3.07	0.42
36:DA:1493:C:O2	36:DA:1493:C:C2'	2.67	0.42
36:DA:1744:C:O2'	36:DA:1745:C:H5'	2.18	0.42
36:DA:1830:C:H6	36:DA:1830:C:O5'	2.02	0.42
36:DA:2071:A:H8	36:DA:2071:A:OP2	2.02	0.42
36:DA:2104:G:N1	36:DA:2105:C:N4	2.67	0.42
36:DA:2262:U:C2	36:DA:2263:C:C5	3.06	0.42
36:DA:2269:A:O2'	36:DA:2270:G:H5'	2.19	0.42
36:DA:2413:G:C4	36:DA:2414:G:C8	3.07	0.42
36:DA:2648:C:H2'	36:DA:2649:U:C6	2.54	0.42
37:DB:50:G:OP1	51:DS:63:THR:HG23	2.18	0.42
40:DE:183:LEU:HD12	40:DE:183:LEU:N	2.33	0.42
41:DF:42:ALA:C	41:DF:44:ARG:N	2.77	0.42
41:DF:150:GLY:HA2	41:DF:172:TRP:CE2	2.54	0.42
42:DG:19:LEU:HD23	42:DG:175:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:165:THR:CG2	42:DG:168:GLU:OE2	2.67	0.42
43:DH:107:VAL:O	43:DH:109:PHE:N	2.52	0.42
48:DP:114:ILE:N	48:DP:129:ALA:O	2.51	0.42
49:DQ:63:LYS:CE	49:DQ:65:PHE:HE1	2.32	0.42
51:DS:73:LEU:C	51:DS:73:LEU:CD2	2.92	0.42
52:DT:57:PHE:O	52:DT:79:HIS:CE1	2.72	0.42
52:DT:128:GLU:O	52:DT:129:ARG:C	2.62	0.42
53:DU:74:LEU:HD12	53:DU:74:LEU:C	2.44	0.42
54:DV:58:VAL:O	54:DV:59:ALA:HB2	2.18	0.42
55:DW:112:GLY:O	55:DW:113:LYS:O	2.37	0.42
56:DX:29:TRP:HZ3	56:DX:78:LYS:HD2	1.84	0.42
56:DX:69:TYR:N	56:DX:69:TYR:CD1	2.87	0.42
57:DY:33:LYS:C	57:DY:35:TYR:N	2.77	0.42
58:DZ:96:VAL:CG2	58:DZ:97:GLU:H	2.25	0.42
58:DZ:150:LEU:O	58:DZ:151:HIS:CB	2.65	0.42
1:AA:428:G:HO2'	1:AA:429:U:P	2.41	0.42
1:AA:429:U:H4'	1:AA:430:A:O5'	2.18	0.42
1:AA:505:G:C5	1:AA:506:G:N7	2.87	0.42
1:AA:515:G:O2'	1:AA:516:U:H5'	2.19	0.42
1:AA:588:G:C6	1:AA:589:C:C4	3.08	0.42
1:AA:663:A:C2	1:AA:664:G:C4	3.07	0.42
1:AA:1089:G:H2'	1:AA:1090:U:H6	1.84	0.42
1:AA:1247:U:O2	1:AA:1291:G:C2	2.72	0.42
1:AA:1368:G:OP2	9:AI:112:LYS:HD2	2.19	0.42
2:AB:59:GLU:O	2:AB:60:ASP:C	2.62	0.42
4:AD:34:GLU:O	4:AD:35:ARG:CB	2.67	0.42
4:AD:56:VAL:HG12	4:AD:202:LEU:HD13	2.01	0.42
5:AE:28:PHE:HE1	5:AE:49:PRO:O	2.02	0.42
5:AE:30:ALA:O	5:AE:46:GLY:N	2.44	0.42
5:AE:32:VAL:O	5:AE:43:LEU:HD12	2.19	0.42
7:AG:22:LEU:CD2	7:AG:62:PHE:CE2	3.02	0.42
7:AG:123:GLU:O	7:AG:126:ASP:N	2.52	0.42
9:AI:26:VAL:HG13	9:AI:61:ALA:HB3	2.00	0.42
9:AI:49:PRO:C	9:AI:51:ARG:H	2.27	0.42
9:AI:55:ALA:C	9:AI:57:GLY:N	2.74	0.42
10:AJ:24:VAL:C	10:AJ:26:ALA:H	2.26	0.42
12:AL:88:GLY:C	12:AL:99:HIS:HD1	2.26	0.42
13:AM:13:LYS:HA	13:AM:44:ARG:HD2	2.01	0.42
13:AM:44:ARG:O	13:AM:47:ASP:N	2.51	0.42
13:AM:59:TYR:CD1	13:AM:63:THR:OG1	2.67	0.42
15:AO:64:ARG:C	15:AO:66:LEU:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:45:VAL:O	19:AS:47:HIS:N	2.47	0.42
21:AU:19:GLY:H	21:AU:22:ARG:HB3	1.85	0.42
24:AY:9:A:H62	24:AY:23:A:N6	2.14	0.42
25:AZ:69:GLU:CD	25:AZ:273:HIS:HB3	2.44	0.42
25:AZ:224:PRO:O	25:AZ:240:GLY:HA3	2.19	0.42
25:AZ:261:GLU:O	25:AZ:262:THR:C	2.61	0.42
25:AZ:310:ILE:HD11	25:AZ:381:GLU:CB	2.47	0.42
25:AZ:362:VAL:HG11	25:AZ:368:VAL:HG21	2.01	0.42
27:B1:70:VAL:CA	27:B1:73:LEU:HD12	2.47	0.42
30:B4:10:VAL:CG2	30:B4:11:PRO:N	2.82	0.42
30:B4:35:VAL:HG12	42:BG:112:PRO:CG	2.49	0.42
33:B7:30:VAL:HG13	36:BA:466:A:H4'	1.97	0.42
34:B8:41:ILE:HD12	36:BA:2419:U:OP1	2.18	0.42
34:B8:50:LEU:CD1	34:B8:51:ALA:N	2.74	0.42
36:BA:141:A:C8	36:BA:1408:C:O2'	2.71	0.42
36:BA:202:U:H2'	36:BA:203:C:O4'	2.20	0.42
36:BA:209:C:C4'	36:BA:681:G:H4'	2.50	0.42
36:BA:217:G:O6	36:BA:431:U:O2	2.37	0.42
36:BA:271(Z):C:H1'	36:BA:272(C):G:H1'	2.01	0.42
36:BA:448:U:H1'	41:BF:84:VAL:HG13	2.01	0.42
36:BA:525:U:O2'	36:BA:526:A:H5'	2.19	0.42
36:BA:583:G:OP2	53:BU:10:ARG:HD2	2.19	0.42
36:BA:629:G:O2'	36:BA:630:G:H5'	2.20	0.42
36:BA:630:G:H2'	36:BA:632:A:OP2	2.19	0.42
36:BA:784:A:O2'	36:BA:785:G:H8	2.02	0.42
36:BA:839:U:O5'	36:BA:839:U:H6	2.02	0.42
36:BA:841:A:N1	36:BA:938:G:C6	2.87	0.42
36:BA:843:G:H2'	36:BA:844:C:H6	1.83	0.42
36:BA:979:G:N2	36:BA:985:C:H42	2.16	0.42
36:BA:1244:G:H5'	36:BA:1244:G:C8	2.55	0.42
36:BA:1336:A:H2'	36:BA:1337:G:C8	2.50	0.42
36:BA:1835:G:H2'	36:BA:1835:G:N3	2.35	0.42
36:BA:1911:U:O2'	36:BA:1912:A:H5''	2.19	0.42
36:BA:2165:G:C6	36:BA:2166:G:C6	3.07	0.42
36:BA:2252:G:H2'	36:BA:2253:G:O4'	2.19	0.42
36:BA:2307:G:H21	36:BA:2308:G:H5'	1.83	0.42
36:BA:2429:G:OP2	36:BA:2430:A:OP2	2.36	0.42
36:BA:2679:A:O2'	36:BA:2680:C:H5'	2.19	0.42
36:BA:2748:A:N3	36:BA:2748:A:H2'	2.33	0.42
36:BA:2791:C:H2'	36:BA:2791:C:O2	2.19	0.42
37:BB:72:G:O2'	37:BB:105:A:N6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BC:63:SER:OG	38:BC:160:ARG:HG3	2.20	0.42
38:BC:76:ALA:HA	38:BC:114:VAL:CG2	2.49	0.42
38:BC:156:ILE:CD1	38:BC:160:ARG:NH2	2.83	0.42
40:BE:7:VAL:O	40:BE:7:VAL:HG13	2.19	0.42
40:BE:93:VAL:HG21	40:BE:180:ASN:HA	2.01	0.42
41:BF:28:ILE:O	41:BF:28:ILE:HG12	2.19	0.42
41:BF:31:HIS:O	41:BF:33:LEU:N	2.52	0.42
41:BF:37:VAL:HG22	41:BF:183:VAL:CG2	2.41	0.42
41:BF:46:ARG:HG2	41:BF:48:THR:HG23	2.00	0.42
41:BF:160:ASN:ND2	41:BF:162:LEU:HB2	2.33	0.42
41:BF:182:ASN:OD1	41:BF:185:ASP:HB2	2.19	0.42
42:BG:39:ILE:CG1	42:BG:92:VAL:HG12	2.49	0.42
42:BG:52:ILE:HB	42:BG:54:GLU:CD	2.44	0.42
42:BG:166:ASP:O	42:BG:169:ALA:N	2.53	0.42
43:BH:76:VAL:C	43:BH:78:GLY:N	2.77	0.42
45:BK:135:UNK:O	45:BK:136:UNK:CB	2.66	0.42
48:BP:5:ASP:OD2	48:BP:6:LEU:HD23	2.20	0.42
49:BQ:43:THR:OG1	49:BQ:46:GLN:CG	2.64	0.42
49:BQ:134:ARG:NH1	58:BZ:122:ARG:CZ	2.82	0.42
51:BS:93:LYS:HA	51:BS:93:LYS:HD2	1.79	0.42
52:BT:48:ILE:O	52:BT:63:VAL:HA	2.19	0.42
52:BT:87:ASP:OD2	52:BT:87:ASP:C	2.62	0.42
54:BV:4:ILE:O	54:BV:38:LEU:HD23	2.18	0.42
58:BZ:154:ASP:N	58:BZ:154:ASP:OD2	2.51	0.42
1:CA:59:A:N6	1:CA:331:G:H1'	2.33	0.42
1:CA:181:G:H4'	1:CA:182:U:O5'	2.19	0.42
1:CA:264:U:O2'	17:CQ:64:PRO:O	2.37	0.42
1:CA:447:G:C2'	1:CA:485:G:N2	2.74	0.42
1:CA:472:A:H2'	1:CA:473:G:O4'	2.19	0.42
1:CA:545:C:OP1	4:CD:61:LYS:NZ	2.52	0.42
1:CA:570:G:C6	1:CA:873:A:C2	3.06	0.42
1:CA:607:A:C2	16:CP:31:LYS:HG3	2.55	0.42
1:CA:675:A:H1'	11:CK:116:HIS:CD2	2.53	0.42
1:CA:730:G:O2'	1:CA:766:A:H5'	2.19	0.42
1:CA:794:A:H2'	1:CA:795:C:C6	2.54	0.42
1:CA:827:U:H2'	1:CA:859:A:N1	2.34	0.42
1:CA:955:U:H3	1:CA:1225:A:H61	1.66	0.42
1:CA:965:A:H1'	1:CA:969:A:C8	2.54	0.42
1:CA:1057:G:C3'	1:CA:1058:G:H8	2.32	0.42
1:CA:1075:C:OP1	2:CB:179:LYS:HE2	2.19	0.42
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1330:U:O2	1:CA:1330:U:H2'	2.19	0.42
1:CA:1437:C:H2'	1:CA:1438:G:C8	2.54	0.42
1:CA:1468:A:H3'	1:CA:1469:G:C8	2.52	0.42
1:CA:1490:C:C2	1:CA:1491:G:C8	3.07	0.42
2:CB:54:THR:O	2:CB:57:PHE:HB3	2.19	0.42
3:CC:5:ILE:N	3:CC:5:ILE:CD1	2.81	0.42
3:CC:36:ASP:O	3:CC:40:ARG:NH1	2.52	0.42
3:CC:121:ALA:HB2	3:CC:187:ALA:CB	2.49	0.42
5:CE:132:ALA:O	5:CE:135:THR:HB	2.19	0.42
7:CG:36:LYS:O	7:CG:37:ASN:O	2.36	0.42
8:CH:127:LEU:HD12	8:CH:129:VAL:HG13	2.00	0.42
10:CJ:38:ILE:HD11	10:CJ:71:LEU:CG	2.49	0.42
11:CK:111:ASP:CG	18:CR:84:LYS:HD2	2.43	0.42
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.33	0.42
13:CM:59:TYR:O	13:CM:60:VAL:C	2.62	0.42
14:CN:4:LYS:O	14:CN:6:LEU:N	2.52	0.42
15:CO:64:ARG:C	15:CO:66:LEU:H	2.27	0.42
15:CO:67:LEU:N	15:CO:67:LEU:HD23	2.33	0.42
15:CO:72:ARG:HG2	15:CO:72:ARG:HH11	1.84	0.42
18:CR:34:TYR:CD1	18:CR:35:ARG:HG3	2.54	0.42
20:CT:63:ILE:O	20:CT:66:ALA:HB3	2.19	0.42
25:CZ:92:MET:C	25:CZ:95:GLY:H	2.27	0.42
25:CZ:168:VAL:HA	25:CZ:169:PRO:HD3	1.83	0.42
25:CZ:258:LEU:HD12	25:CZ:258:LEU:N	2.33	0.42
25:CZ:286:VAL:HG23	25:CZ:287:GLY:H	1.84	0.42
25:CZ:389:ARG:HH22	25:CZ:392:GLY:C	2.27	0.42
26:D0:56:ASP:OD2	36:DA:2364:C:C4'	2.67	0.42
27:D1:26:ARG:HG3	27:D1:27:GLU:N	2.33	0.42
27:D1:45:ASN:N	36:DA:397:G:OP1	2.51	0.42
28:D2:51:ARG:C	28:D2:53:LEU:N	2.71	0.42
29:D3:12:PRO:O	29:D3:13:ILE:C	2.61	0.42
30:D4:10:VAL:CG2	30:D4:11:PRO:N	2.82	0.42
32:D6:42:TRP:CE2	36:DA:2348:U:O2'	2.72	0.42
33:D7:15:THR:HG22	33:D7:15:THR:O	2.18	0.42
36:DA:17:G:H22	36:DA:524:U:C1'	2.13	0.42
36:DA:203:C:N4	36:DA:204:A:C6	2.87	0.42
36:DA:647:G:H3'	36:DA:648:G:H8	1.84	0.42
36:DA:782:A:H2	39:DD:230:ASP:CG	2.27	0.42
36:DA:918:A:H2	37:DB:80:U:O3'	2.02	0.42
36:DA:1145:C:H2'	36:DA:1146:C:C6	2.54	0.42
36:DA:1151:G:H2'	36:DA:1152:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1186:G:O2'	36:DA:1187:G:H5'	2.19	0.42
36:DA:1477:A:H2'	36:DA:1478:G:O4'	2.19	0.42
36:DA:1528(A):A:H8	36:DA:1529:G:N9	2.17	0.42
36:DA:1637:A:O2'	36:DA:1638:C:H5'	2.19	0.42
36:DA:1655:A:H1'	40:DE:113:PHE:CD2	2.54	0.42
36:DA:1891:G:C2	36:DA:1892:C:C2	3.07	0.42
36:DA:2200:C:N4	36:DA:2223:G:H1	2.04	0.42
36:DA:2285:C:H42	36:DA:2383:G:H1	1.67	0.42
36:DA:2306:C:H5''	36:DA:2307:G:O4'	2.19	0.42
36:DA:2311:A:C2	42:DG:77:ILE:HG21	2.45	0.42
36:DA:2599:G:H5''	36:DA:2599:G:H8	1.85	0.42
36:DA:2633:G:H5'	36:DA:2812:G:H5'	2.01	0.42
37:DB:19:G:H3'	37:DB:20:C:H6	1.85	0.42
38:DC:30:LYS:CE	38:DC:180:PHE:O	2.55	0.42
38:DC:64:LEU:HD13	38:DC:188:ASN:ND2	2.34	0.42
38:DC:99:ILE:C	38:DC:101:GLN:N	2.76	0.42
39:DD:10:THR:C	39:DD:11:PRO:O	2.61	0.42
39:DD:18:VAL:HG23	39:DD:211:ARG:HH22	1.81	0.42
39:DD:62:TYR:CD1	39:DD:63:ARG:N	2.87	0.42
39:DD:147:LEU:HB2	39:DD:155:LEU:HD11	2.01	0.42
39:DD:187:GLY:O	39:DD:189:CYS:N	2.51	0.42
39:DD:198:ASN:O	39:DD:198:ASN:CG	2.61	0.42
41:DF:182:ASN:C	41:DF:184:TYR:N	2.77	0.42
43:DH:41:MET:SD	43:DH:53:GLU:O	2.77	0.42
46:DN:35:ARG:O	46:DN:37:LYS:N	2.51	0.42
47:DO:8:LEU:HD22	47:DO:8:LEU:O	2.19	0.42
48:DP:7:ARG:O	48:DP:10:PRO:HD2	2.19	0.42
48:DP:45:LEU:HD23	48:DP:45:LEU:HA	1.80	0.42
49:DQ:18:LYS:HE2	49:DQ:18:LYS:HB2	1.78	0.42
49:DQ:46:GLN:O	49:DQ:47:ILE:C	2.62	0.42
49:DQ:125:LEU:HB3	49:DQ:126:PRO:HD2	2.01	0.42
50:DR:2:ARG:HG3	50:DR:2:ARG:NH1	2.34	0.42
50:DR:79:LEU:C	50:DR:79:LEU:HD22	2.44	0.42
51:DS:16:ASN:O	51:DS:18:ILE:N	2.52	0.42
51:DS:66:ALA:CB	51:DS:99:LYS:HD3	2.49	0.42
53:DU:55:ARG:HB2	53:DU:55:ARG:CZ	2.49	0.42
53:DU:90:VAL:CG1	53:DU:91:ASP:N	2.78	0.42
55:DW:5:ALA:O	55:DW:6:ILE:HB	2.19	0.42
56:DX:13:LEU:O	56:DX:14:SER:HB3	2.19	0.42
57:DY:46:LYS:O	57:DY:47:LYS:HG3	2.19	0.42
57:DY:50:ARG:HB3	57:DY:53:PRO:CG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:18:LEU:HD13	58:DZ:18:LEU:H	1.83	0.42
58:DZ:51:ALA:O	58:DZ:54:HIS:N	2.50	0.42
58:DZ:163:LEU:HG	58:DZ:165:VAL:HG23	2.01	0.42
1:AA:218:C:C4	1:AA:219:C:N4	2.88	0.42
1:AA:377:G:H5'	16:AP:5:ARG:NH1	2.35	0.42
1:AA:449:C:O2	16:AP:42:ARG:HG2	2.19	0.42
1:AA:694:A:HO2'	22:AW:38:A:HO2'	1.64	0.42
1:AA:782:A:N1	1:AA:801:U:H1'	2.35	0.42
1:AA:784:C:H2'	1:AA:785:G:C8	2.54	0.42
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.83	0.42
1:AA:1486:G:C2'	1:AA:1487:G:O4'	2.67	0.42
5:AE:20:GLN:CD	5:AE:25:ARG:NH1	2.77	0.42
5:AE:40:ARG:HG2	5:AE:40:ARG:HH11	1.84	0.42
5:AE:76:ILE:HG12	5:AE:77:PRO:N	2.33	0.42
6:AF:44:GLY:C	6:AF:60:PHE:H	2.27	0.42
7:AG:31:MET:HB2	7:AG:39:ALA:CB	2.48	0.42
9:AI:65:VAL:HG22	9:AI:66:ARG:H	1.84	0.42
11:AK:89:ALA:O	11:AK:91:ARG:N	2.52	0.42
12:AL:27:LEU:O	12:AL:29:GLY:N	2.51	0.42
16:AP:49:LEU:HD22	16:AP:73:LEU:HD22	2.01	0.42
17:AQ:46:ASP:CG	17:AQ:51:TYR:HD1	2.28	0.42
19:AS:10:PHE:HE1	19:AS:70:LYS:HD2	1.83	0.42
19:AS:15:LEU:HD22	19:AS:15:LEU:HA	1.91	0.42
20:AT:45:GLN:NE2	20:AT:46:GLU:N	2.66	0.42
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.34	0.42
23:AX:22:A:C2	24:AY:37:YG:H1'	2.55	0.42
25:AZ:85:HIS:HD2	25:AZ:88:TYR:CE2	2.37	0.42
25:AZ:223:MET:HE3	25:AZ:224:PRO:O	2.20	0.42
27:B1:24:ALA:O	27:B1:29:GLY:HA2	2.18	0.42
28:B2:21:LEU:HD13	28:B2:64:LEU:HB2	2.02	0.42
29:B3:40:THR:O	29:B3:41:PRO:C	2.62	0.42
34:B8:30:ARG:O	34:B8:31:HIS:CB	2.67	0.42
34:B8:45:GLY:O	34:B8:46:ARG:O	2.36	0.42
34:B8:52:LYS:O	34:B8:55:ALA:HB3	2.18	0.42
35:B9:7:VAL:HG13	35:B9:34:GLN:HB3	2.01	0.42
36:BA:71:A:H3'	36:BA:71:A:OP2	2.18	0.42
36:BA:85:G:H1	36:BA:97:C:H42	1.66	0.42
36:BA:135:G:C2	36:BA:145:G:C2	3.07	0.42
36:BA:372:G:O2'	36:BA:373:U:P	2.78	0.42
36:BA:418:G:C2	36:BA:419:C:C6	3.08	0.42
36:BA:426:C:O2	36:BA:427:U:C6	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:483:A:C1'	57:BY:60:PHE:CZ	2.97	0.42
36:BA:565:C:H4'	36:BA:1253:A:C2	2.54	0.42
36:BA:654(V):A:H8	36:BA:655:A:C2'	2.30	0.42
36:BA:691:C:H6	36:BA:691:C:O5'	2.02	0.42
36:BA:871:U:O2	36:BA:871:U:H2'	2.18	0.42
36:BA:882:G:N2	36:BA:894:C:H42	2.17	0.42
36:BA:1173:G:H3'	36:BA:1174:A:C5'	2.50	0.42
36:BA:1251:C:P	53:BU:10:ARG:HE	2.39	0.42
36:BA:1275:A:C5	50:BR:16:HIS:HB2	2.54	0.42
36:BA:1287:A:H2'	36:BA:1287:A:N3	2.34	0.42
36:BA:1338:G:C2	36:BA:1339:G:C4	3.07	0.42
36:BA:1620:G:O2'	36:BA:1621:U:H5'	2.19	0.42
36:BA:1637:A:O2'	36:BA:1638:C:H5'	2.20	0.42
36:BA:2241:A:H2'	36:BA:2242:G:H8	1.84	0.42
36:BA:2334:G:N3	51:BS:18:ILE:HD13	2.35	0.42
36:BA:2348:U:C2	36:BA:2349:G:C8	3.07	0.42
36:BA:2821:A:H2'	36:BA:2822:G:O4'	2.20	0.42
36:BA:2850:A:N6	36:BA:2869:G:H5'	2.34	0.42
36:BA:2853:C:O2'	36:BA:2854:G:H5'	2.18	0.42
37:BB:94:C:H2'	37:BB:95:C:H6	1.83	0.42
38:BC:39:GLU:O	38:BC:177:LYS:HA	2.19	0.42
38:BC:206:GLY:CA	38:BC:210:ARG:HH22	2.17	0.42
42:BG:162:THR:O	42:BG:164:GLU:CG	2.64	0.42
43:BH:37:VAL:HG21	43:BH:72:ILE:HD11	2.02	0.42
46:BN:22:THR:N	46:BN:61:ARG:HB2	2.33	0.42
46:BN:63:THR:HB	46:BN:64:GLY:H	1.53	0.42
49:BQ:1:MET:HE3	49:BQ:2:LEU:HB3	2.02	0.42
49:BQ:48:GLU:C	49:BQ:50:ALA:N	2.76	0.42
49:BQ:132:VAL:HG11	58:BZ:81:ARG:NE	2.34	0.42
50:BR:28:LEU:CD2	50:BR:29:LEU:N	2.82	0.42
50:BR:45:ARG:O	50:BR:48:VAL:N	2.52	0.42
50:BR:102:GLU:O	50:BR:103:ARG:C	2.62	0.42
52:BT:13:ARG:NH2	52:BT:15:VAL:CG1	2.82	0.42
55:BW:28:SER:HA	55:BW:70:TYR:CB	2.49	0.42
58:BZ:12:GLY:CA	58:BZ:36:LYS:NZ	2.83	0.42
58:BZ:39:VAL:O	58:BZ:40:ASP:C	2.63	0.42
58:BZ:125:LEU:HD23	58:BZ:164:ALA:O	2.19	0.42
1:CA:27:G:H2'	1:CA:28:G:H8	1.83	0.42
1:CA:359:U:H2'	1:CA:360:A:C8	2.48	0.42
1:CA:421:U:C6	3:CC:127:ARG:NH1	2.88	0.42
1:CA:443:C:O2'	1:CA:444:C:H5'	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:670:G:N2	1:CA:671:G:N3	2.67	0.42
1:CA:734:G:O2'	1:CA:735:C:C5'	2.62	0.42
1:CA:782:A:N1	1:CA:801:U:H1'	2.33	0.42
1:CA:863:U:C3'	1:CA:864:A:H5''	2.47	0.42
1:CA:961:U:O2'	1:CA:962:C:C6	2.70	0.42
1:CA:1054:C:OP2	1:CA:1198:G:OP2	2.37	0.42
1:CA:1081:G:H2'	1:CA:1082:G:C8	2.51	0.42
1:CA:1129:C:H4'	1:CA:1130:A:H8	1.84	0.42
1:CA:1245:A:H2'	1:CA:1246:C:C6	2.54	0.42
3:CC:5:ILE:HG12	3:CC:10:PHE:HB2	2.01	0.42
6:CF:11:ASN:HA	6:CF:12:PRO:HD2	1.87	0.42
7:CG:36:LYS:O	7:CG:37:ASN:C	2.61	0.42
7:CG:117:ALA:O	7:CG:118:VAL:C	2.61	0.42
8:CH:49:GLU:O	8:CH:50:ARG:C	2.61	0.42
8:CH:89:PRO:CA	8:CH:92:ARG:HH11	2.27	0.42
8:CH:119:LEU:HD12	8:CH:124:ALA:CA	2.48	0.42
9:CI:6:GLY:HA3	9:CI:84:ALA:CA	2.49	0.42
9:CI:37:PHE:CD2	9:CI:74:ILE:HD11	2.54	0.42
9:CI:82:ALA:O	9:CI:85:LEU:CD1	2.67	0.42
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	2.01	0.42
11:CK:32:ILE:CG2	11:CK:33:THR:N	2.83	0.42
13:CM:108:ARG:NH1	13:CM:108:ARG:CG	2.81	0.42
14:CN:4:LYS:O	14:CN:7:ILE:CG1	2.54	0.42
14:CN:4:LYS:C	14:CN:6:LEU:N	2.77	0.42
14:CN:44:LEU:HD12	14:CN:44:LEU:C	2.44	0.42
15:CO:28:GLN:O	15:CO:31:LEU:HB3	2.20	0.42
15:CO:64:ARG:O	15:CO:68:ARG:N	2.51	0.42
16:CP:9:PHE:HE2	16:CP:18:ARG:HD2	1.85	0.42
16:CP:12:LYS:HE3	16:CP:12:LYS:HB2	1.87	0.42
17:CQ:13:ASP:C	17:CQ:15:MET:N	2.73	0.42
17:CQ:46:ASP:CG	17:CQ:51:TYR:HD1	2.27	0.42
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	2.01	0.42
19:CS:68:GLY:O	19:CS:70:LYS:HE3	2.19	0.42
22:CV:18:G:C4	22:CV:58:A:C2	3.08	0.42
22:CW:51:U:H2'	22:CW:52:G:H8	1.84	0.42
24:CY:35:G:O2'	24:CY:36:U:H5'	2.19	0.42
25:CZ:219:LYS:HB3	25:CZ:220:PRO:HD2	2.01	0.42
25:CZ:222:LEU:HD23	25:CZ:244:ARG:CZ	2.48	0.42
28:D2:3:LEU:O	28:D2:6:VAL:HB	2.18	0.42
28:D2:46:GLN:O	28:D2:50:ILE:HD13	2.19	0.42
30:D4:14:ILE:H	30:D4:14:ILE:CD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D7:7:PRO:HA	36:DA:686:G:C8	2.54	0.42
34:D8:22:VAL:CB	34:D8:53:PRO:HB2	2.49	0.42
36:DA:120:U:H1'	36:DA:149:A:C8	2.55	0.42
36:DA:176:G:H3'	36:DA:177:G:N2	2.35	0.42
36:DA:321:G:OP2	41:DF:135:LYS:HD2	2.19	0.42
36:DA:327:G:C2	36:DA:328:U:C2	3.07	0.42
36:DA:760:G:H2'	36:DA:761:A:O4'	2.20	0.42
36:DA:862:G:H3'	36:DA:863:A:H8	1.83	0.42
36:DA:994:C:O2	36:DA:994:C:H2'	2.20	0.42
36:DA:1106:G:C6	36:DA:1107:G:N3	2.87	0.42
36:DA:1271:G:N2	36:DA:1617:C:O4'	2.52	0.42
36:DA:1387:C:H42	36:DA:1400:G:H1	1.67	0.42
36:DA:1474:C:H5'	36:DA:1475:G:OP1	2.19	0.42
36:DA:1528:A:O2'	36:DA:1528(A):A:P	2.76	0.42
36:DA:1541:G:C8	36:DA:1542:A:C6	3.08	0.42
36:DA:1651:G:C2'	36:DA:1652:A:H5'	2.50	0.42
36:DA:1747:G:H2'	36:DA:1747(A):G:C8	2.54	0.42
36:DA:1830:C:H2'	36:DA:1831:G:H8	1.85	0.42
36:DA:1884:A:H3'	36:DA:1885:A:H5''	2.02	0.42
36:DA:2110:G:O2'	36:DA:2111:C:H5'	2.19	0.42
36:DA:2121:G:C2	36:DA:2177:C:O2	2.73	0.42
36:DA:2173:A:N3	36:DA:2173:A:C3'	2.80	0.42
36:DA:2282:G:N2	36:DA:2390:U:H3	2.11	0.42
36:DA:2379:G:H2'	36:DA:2380:C:H6	1.79	0.42
36:DA:2444:G:OP2	41:DF:68:LYS:NZ	2.51	0.42
36:DA:2517:C:N3	36:DA:2542:A:N1	2.67	0.42
36:DA:2729:G:H2'	36:DA:2730:C:C6	2.53	0.42
36:DA:2758:A:C2	36:DA:2759:G:N9	2.88	0.42
36:DA:2842:G:H1	36:DA:2875:C:N4	2.17	0.42
39:DD:180:GLY:O	39:DD:181:GLU:C	2.61	0.42
40:DE:181:LEU:N	40:DE:181:LEU:CD1	2.83	0.42
41:DF:116:ASP:OD2	48:DP:5:ASP:N	2.53	0.42
43:DH:84:SER:O	43:DH:85:LYS:HB3	2.19	0.42
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.49	0.42
49:DQ:27:VAL:H	49:DQ:137:TYR:HD1	1.68	0.42
49:DQ:126:PRO:HG2	49:DQ:127:ILE:HG23	2.01	0.42
51:DS:85:VAL:CG2	51:DS:106:ARG:HB2	2.49	0.42
52:DT:29:ARG:HD2	52:DT:29:ARG:HA	1.79	0.42
52:DT:31:SER:HG	52:DT:32:TYR:HD2	1.61	0.42
53:DU:47:TYR:O	53:DU:50:ARG:HB2	2.19	0.42
53:DU:52:ARG:NH2	53:DU:55:ARG:HH22	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:69:LYS:HB2	54:DV:88:ARG:CD	2.40	0.42
55:DW:37:ARG:CG	55:DW:37:ARG:NH1	2.80	0.42
56:DX:43:VAL:O	56:DX:43:VAL:HG12	2.19	0.42
57:DY:81:LYS:CD	57:DY:97:ARG:O	2.60	0.42
58:DZ:108:PRO:O	58:DZ:111:VAL:HG23	2.18	0.42
1:AA:9:G:C5'	5:AE:122:GLU:OE1	2.67	0.42
1:AA:119:A:C4	1:AA:240:C:N4	2.88	0.42
1:AA:342:C:O2'	1:AA:343:U:H5'	2.18	0.42
1:AA:488:C:O2'	1:AA:489:C:H5'	2.18	0.42
1:AA:630:G:C3'	1:AA:631:G:H5'	2.49	0.42
1:AA:667:G:H4'	15:AO:51:HIS:ND1	2.34	0.42
1:AA:675:A:H1'	11:AK:116:HIS:CD2	2.54	0.42
1:AA:680:C:N3	1:AA:711:G:C2	2.87	0.42
1:AA:719:C:C6	1:AA:720:C:C5	3.07	0.42
1:AA:874:G:C6	1:AA:875:C:C4	3.07	0.42
1:AA:1095:U:P	1:AA:1108:G:H1	2.42	0.42
1:AA:1161:C:O2'	1:AA:1162:C:H5'	2.19	0.42
1:AA:1422:G:C2	1:AA:1423:G:N7	2.88	0.42
2:AB:97:TRP:O	2:AB:98:LEU:O	2.38	0.42
2:AB:216:SER:C	2:AB:218:ALA:N	2.76	0.42
3:AC:7:PRO:HG2	3:AC:184:TYR:CD2	2.54	0.42
4:AD:59:ARG:HA	4:AD:59:ARG:NE	2.35	0.42
5:AE:76:ILE:HG21	5:AE:92:LYS:C	2.44	0.42
7:AG:89:MET:C	7:AG:90:GLU:O	2.63	0.42
9:AI:114:TYR:C	9:AI:116:LYS:H	2.27	0.42
10:AJ:46:ARG:C	10:AJ:47:PHE:CD1	2.97	0.42
11:AK:12:ARG:HE	11:AK:14:VAL:HG13	1.85	0.42
11:AK:90:GLY:O	11:AK:91:ARG:C	2.62	0.42
11:AK:90:GLY:O	11:AK:93:GLN:N	2.52	0.42
12:AL:78:GLN:C	12:AL:80:HIS:H	2.28	0.42
15:AO:9:GLN:O	15:AO:12:ILE:N	2.53	0.42
15:AO:81:LEU:HB3	15:AO:82:ILE:H	1.67	0.42
16:AP:52:ASP:HB3	16:AP:55:ARG:HB2	2.00	0.42
17:AQ:90:ILE:HG22	17:AQ:94:ASN:HD21	1.85	0.42
19:AS:51:VAL:HG23	19:AS:60:VAL:CG1	2.35	0.42
25:AZ:21:ASP:N	62:AZ:501:GDP:O1B	2.47	0.42
25:AZ:118:GLU:C	25:AZ:120:ILE:N	2.67	0.42
25:AZ:234:ARG:HD2	25:AZ:289:LEU:HD21	2.00	0.42
26:B0:23:VAL:HG22	26:B0:38:VAL:CG2	2.49	0.42
26:B0:75:LEU:HA	26:B0:75:LEU:HD23	1.77	0.42
28:B2:27:GLU:O	28:B2:30:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:44:THR:HG22	31:B5:45:VAL:N	2.24	0.42
32:B6:42:TRP:CD2	36:BA:2348:U:O2'	2.73	0.42
36:BA:412:A:H3'	36:BA:413:C:C6	2.55	0.42
36:BA:444:C:C2'	36:BA:445:C:O5'	2.67	0.42
36:BA:467:G:H8	36:BA:467:G:OP2	2.02	0.42
36:BA:500:G:H22	36:BA:503:A:P	2.41	0.42
36:BA:769:G:O4'	36:BA:1379:A:C6	2.72	0.42
36:BA:806:C:O2'	36:BA:807:U:H5'	2.19	0.42
36:BA:1060:U:O2'	36:BA:1061:U:OP2	2.31	0.42
36:BA:1210:A:H4'	36:BA:1211:U:O5'	2.19	0.42
36:BA:1360:A:C6	36:BA:1372:U:N3	2.86	0.42
36:BA:1446:C:N4	36:BA:1465:G:H1	2.16	0.42
36:BA:1464:C:N3	36:BA:1465:G:N7	2.67	0.42
36:BA:1478:G:N2	36:BA:1479:G:C4	2.87	0.42
36:BA:1541:G:C8	36:BA:1542:A:C6	3.07	0.42
36:BA:1667:G:OP2	36:BA:1667:G:C8	2.62	0.42
36:BA:1747:G:H2'	36:BA:1747(A):G:H8	1.85	0.42
36:BA:1759:A:O5'	36:BA:1759:A:H8	2.01	0.42
36:BA:1858:G:O2'	36:BA:1859:A:H8	2.02	0.42
36:BA:2152:G:H2'	36:BA:2153:G:H8	1.84	0.42
36:BA:2175:C:C5'	38:BC:219:GLY:O	2.62	0.42
36:BA:2330:G:O2'	36:BA:2331:G:H5'	2.19	0.42
36:BA:2645:G:C3'	36:BA:2646:C:C5'	2.85	0.42
36:BA:2880:C:O2'	50:BR:90:ARG:NH1	2.46	0.42
39:BD:34:VAL:CG2	39:BD:35:LYS:N	2.81	0.42
39:BD:74:GLY:O	39:BD:76:PRO:HD3	2.20	0.42
39:BD:210:GLY:C	39:BD:212:SER:N	2.76	0.42
40:BE:83:ASP:O	40:BE:84:PHE:CB	2.66	0.42
41:BF:59:TYR:N	41:BF:59:TYR:CD2	2.82	0.42
41:BF:97:TYR:N	41:BF:97:TYR:CD2	2.87	0.42
41:BF:172:TRP:CD1	41:BF:172:TRP:H	2.37	0.42
42:BG:36:LYS:HG2	42:BG:94:LEU:O	2.20	0.42
42:BG:120:LEU:O	42:BG:122:PRO:N	2.53	0.42
42:BG:138:GLN:HG3	42:BG:139:LEU:H	1.83	0.42
46:BN:39:ARG:N	53:BU:67:ALA:HB1	2.35	0.42
48:BP:122:PRO:HG3	48:BP:141:ALA:HB3	2.01	0.42
49:BQ:84:GLY:O	49:BQ:85:LYS:C	2.63	0.42
49:BQ:116:GLU:O	49:BQ:119:ARG:N	2.52	0.42
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.46	0.42
54:BV:22:VAL:O	54:BV:23:GLU:HB2	2.19	0.42
57:BY:86:ARG:NH2	57:BY:95:LYS:HZ2	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:27:VAL:O	58:BZ:27:VAL:CG1	2.66	0.42
58:BZ:76:LEU:O	58:BZ:77:ASP:HB2	2.18	0.42
58:BZ:168:GLU:OE2	58:BZ:168:GLU:HA	2.18	0.42
1:CA:146:G:N3	1:CA:146:G:H2'	2.33	0.42
1:CA:166:G:H2'	1:CA:167:G:C8	2.55	0.42
1:CA:375:U:H2'	1:CA:376:G:H8	1.85	0.42
1:CA:507:C:OP2	1:CA:508:C:H3'	2.19	0.42
1:CA:597:G:C8	1:CA:598:U:C5	3.08	0.42
1:CA:750:G:N2	15:CO:23:GLY:HA3	2.35	0.42
1:CA:858:G:H8	1:CA:858:G:C5'	2.31	0.42
1:CA:949:A:C6	1:CA:950:U:N3	2.87	0.42
1:CA:954:G:H4'	13:CM:120:LYS:HD2	1.98	0.42
1:CA:977:A:H61	1:CA:1224:G:P	2.43	0.42
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.35	0.42
1:CA:1308:U:OP2	13:CM:99:ARG:HD2	2.19	0.42
1:CA:1311:G:C6	1:CA:1312:G:C5	3.08	0.42
1:CA:1379:G:H2'	1:CA:1380:U:C6	2.53	0.42
2:CB:58:ILE:O	2:CB:61:LEU:N	2.52	0.42
2:CB:127:ILE:O	2:CB:129:GLU:O	2.37	0.42
2:CB:238:LEU:O	2:CB:239:VAL:C	2.62	0.42
3:CC:77:ILE:CA	3:CC:83:ARG:HB3	2.49	0.42
3:CC:124:ILE:C	3:CC:126:ARG:H	2.27	0.42
4:CD:189:PRO:CB	4:CD:194:LEU:HD21	2.37	0.42
5:CE:103:GLY:C	5:CE:106:PRO:HD2	2.44	0.42
6:CF:71:ARG:HG3	6:CF:71:ARG:HH11	1.84	0.42
9:CI:88:TYR:O	9:CI:89:ASN:CG	2.62	0.42
10:CJ:12:ASP:C	10:CJ:14:LYS:N	2.73	0.42
12:CL:102:ARG:HA	12:CL:102:ARG:HD2	1.71	0.42
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.19	0.42
14:CN:4:LYS:HB3	14:CN:5:ALA:H	1.68	0.42
14:CN:23:ARG:O	14:CN:24:CYS:C	2.63	0.42
15:CO:59:MET:O	15:CO:60:VAL:C	2.61	0.42
22:CW:76:A:H1'	36:DA:2421:G:N2	2.35	0.42
25:CZ:243:GLU:HG2	25:CZ:345:ARG:HH21	1.84	0.42
25:CZ:334:PHE:N	25:CZ:334:PHE:CD1	2.87	0.42
25:CZ:355:LEU:CD2	25:CZ:359:VAL:HB	2.34	0.42
27:D1:3:LYS:HE2	27:D1:4:VAL:HG12	2.00	0.42
28:D2:29:LYS:O	28:D2:33:MET:N	2.39	0.42
29:D3:28:LEU:N	29:D3:28:LEU:CD2	2.68	0.42
36:DA:253:C:H2'	36:DA:254:G:O4'	2.19	0.42
36:DA:440:G:H8	36:DA:440:G:O5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:483:A:C1'	57:DY:60:PHE:CZ	2.97	0.42
36:DA:794:G:C6	36:DA:795:C:C4	3.08	0.42
36:DA:1106:G:C2	36:DA:1107:G:H1'	2.55	0.42
36:DA:1203:G:N1	36:DA:1241:A:OP2	2.40	0.42
36:DA:1233:C:C4	36:DA:1234:U:C5	3.07	0.42
36:DA:1336:A:O2'	36:DA:1337:G:H5'	2.19	0.42
36:DA:1381:G:O2'	36:DA:1382:G:H5'	2.20	0.42
36:DA:1833:U:O2	36:DA:1969:A:C2	2.71	0.42
36:DA:1860:G:H2'	36:DA:1861:G:C8	2.54	0.42
36:DA:2036:C:H5'	36:DA:2036:C:C6	2.45	0.42
36:DA:2065:C:H2'	36:DA:2066:C:H6	1.82	0.42
36:DA:2133:G:C8	36:DA:2133:G:C3'	3.03	0.42
36:DA:2283:C:C2'	36:DA:2284:C:H5'	2.50	0.42
36:DA:2839:G:O2'	50:DR:92:GLY:HA2	2.20	0.42
37:DB:43:C:H2'	37:DB:44:G:H5''	2.01	0.42
38:DC:57:ASN:N	38:DC:57:ASN:HD22	2.18	0.42
39:DD:35:LYS:HD2	39:DD:36:PRO:CA	2.48	0.42
39:DD:69:ARG:NH1	39:DD:128:GLY:O	2.43	0.42
39:DD:96:HIS:CE1	39:DD:102:LYS:CE	3.02	0.42
39:DD:193:VAL:HG13	39:DD:193:VAL:O	2.20	0.42
39:DD:244:ARG:HG2	39:DD:245:PRO:N	2.34	0.42
41:DF:155:LEU:HG	41:DF:155:LEU:O	2.18	0.42
41:DF:160:ASN:ND2	41:DF:162:LEU:HB2	2.34	0.42
41:DF:194:MET:HB3	41:DF:195:ASP:H	1.52	0.42
42:DG:172:LEU:HD23	42:DG:172:LEU:C	2.44	0.42
43:DH:24:VAL:HG12	43:DH:25:LYS:N	2.33	0.42
46:DN:33:LEU:N	46:DN:33:LEU:CD1	2.83	0.42
46:DN:134:ARG:O	46:DN:136:GLU:N	2.51	0.42
48:DP:122:PRO:HG3	48:DP:141:ALA:HB3	2.01	0.42
49:DQ:138:ASP:O	49:DQ:139:GLU:CD	2.62	0.42
50:DR:24:GLN:HE22	50:DR:40:LYS:CD	2.31	0.42
51:DS:54:LEU:C	51:DS:56:LEU:N	2.77	0.42
52:DT:50:ILE:HG13	52:DT:99:LEU:CD1	2.49	0.42
52:DT:92:GLY:HA3	52:DT:120:ARG:HH21	1.84	0.42
52:DT:93:ARG:HD2	52:DT:93:ARG:HA	1.91	0.42
54:DV:38:LEU:HD11	54:DV:57:VAL:HB	2.00	0.42
55:DW:5:ALA:CB	55:DW:105:VAL:HB	2.50	0.42
57:DY:64:GLU:O	57:DY:65:ALA:HB2	2.19	0.42
57:DY:80:GLY:O	57:DY:81:LYS:C	2.62	0.42
58:DZ:28:MET:HE1	58:DZ:33:LEU:CG	2.49	0.42
58:DZ:152:ALA:C	58:DZ:154:ASP:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:167:PRO:O	58:DZ:168:GLU:HB2	2.19	0.42
1:AA:390:C:H4'	16:AP:28:ARG:NH1	2.26	0.42
1:AA:530:G:O6	23:AX:24:C:H1'	2.20	0.42
1:AA:686:U:C2'	1:AA:687:A:H8	2.32	0.42
1:AA:919:A:HO2'	1:AA:1080:A:N6	2.17	0.42
1:AA:1345:U:C4	1:AA:1377:A:N3	2.87	0.42
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.20	0.42
2:AB:101:MET:HA	2:AB:108:ILE:HG13	2.02	0.42
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.85	0.42
2:AB:230:VAL:HB	2:AB:231:GLU:H	1.66	0.42
2:AB:238:LEU:O	2:AB:239:VAL:C	2.62	0.42
3:AC:6:HIS:HD2	3:AC:7:PRO:CD	2.32	0.42
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.67	0.42
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.44	0.42
7:AG:94:ARG:O	7:AG:97:GLN:HB3	2.19	0.42
8:AH:136:GLU:HG3	8:AH:136:GLU:O	2.18	0.42
9:AI:94:ALA:O	9:AI:95:LYS:CB	2.68	0.42
13:AM:54:VAL:O	13:AM:55:ARG:C	2.62	0.42
15:AO:37:ASN:N	15:AO:37:ASN:ND2	2.66	0.42
18:AR:37:VAL:O	18:AR:41:LYS:N	2.32	0.42
19:AS:31:ILE:O	19:AS:31:ILE:HG12	2.20	0.42
25:AZ:197:ASP:HA	25:AZ:200:TRP:HD1	1.82	0.42
25:AZ:355:LEU:CD2	25:AZ:370:PHE:HB3	2.26	0.42
26:B0:14:ARG:HG3	26:B0:14:ARG:HH11	1.84	0.42
26:B0:30:VAL:HA	26:B0:66:VAL:N	2.34	0.42
27:B1:89:GLU:O	27:B1:90:ILE:C	2.63	0.42
28:B2:35:LEU:CG	28:B2:50:ILE:HG13	2.49	0.42
32:B6:11:LEU:O	32:B6:24:GLU:O	2.37	0.42
32:B6:15:GLU:CD	32:B6:20:ASN:HD22	2.27	0.42
32:B6:15:GLU:HB2	32:B6:20:ASN:HB2	2.01	0.42
32:B6:30:THR:HG21	36:BA:2286:A:OP2	2.19	0.42
32:B6:41:PRO:O	32:B6:45:LYS:HB3	2.19	0.42
33:B7:46:VAL:HG12	33:B7:48:LYS:HZ3	1.83	0.42
34:B8:6:THR:HG21	34:B8:63:PRO:HD3	2.01	0.42
34:B8:7:HIS:O	34:B8:9:GLY:N	2.51	0.42
34:B8:10:ALA:C	34:B8:14:VAL:HG12	2.45	0.42
36:BA:416:C:O2'	36:BA:417:C:H5'	2.19	0.42
36:BA:511:U:O5'	36:BA:511:U:H6	2.03	0.42
36:BA:654(S):G:H2'	36:BA:654(T):C:O4'	2.20	0.42
36:BA:813:U:H2'	36:BA:814:C:C5	2.53	0.42
36:BA:1253:A:N6	54:BV:80:GLN:HE22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1373:A:C2'	36:BA:1374:G:H5'	2.49	0.42
36:BA:1406:U:N3	36:BA:1597:A:C2	2.87	0.42
36:BA:1492:G:C2	36:BA:1499:C:O2	2.72	0.42
36:BA:1790:C:H5''	36:BA:1791:A:OP1	2.19	0.42
36:BA:1907:G:H2'	36:BA:1908:C:H6	1.83	0.42
36:BA:1971:A:N3	39:BD:241:PRO:HD3	2.34	0.42
36:BA:1993:U:C5'	40:BE:128:SER:HB3	2.50	0.42
36:BA:2043:C:H2'	36:BA:2044:C:C6	2.54	0.42
36:BA:2137:C:O2'	36:BA:2138:C:H5'	2.19	0.42
36:BA:2166:G:H2'	36:BA:2167:U:C6	2.54	0.42
36:BA:2361:A:H2'	36:BA:2362:G:C8	2.48	0.42
36:BA:2482:G:C8	36:BA:2483:C:C5	3.08	0.42
36:BA:2625:G:H2'	36:BA:2626:C:O4'	2.19	0.42
36:BA:2756:U:O2'	36:BA:2757:A:H5''	2.19	0.42
36:BA:2819:G:N2	36:BA:2828:C:C2	2.87	0.42
36:BA:2861:G:C2'	36:BA:2862:G:H5'	2.49	0.42
37:BB:104:U:O3'	58:BZ:72:ARG:NH1	2.52	0.42
39:BD:122:ASP:O	39:BD:123:ALA:C	2.62	0.42
39:BD:180:GLY:O	39:BD:181:GLU:C	2.62	0.42
40:BE:87:GLU:C	40:BE:89:ASP:H	2.20	0.42
41:BF:7:TYR:HD2	41:BF:16:GLY:HA3	1.83	0.42
41:BF:103:LYS:HG2	41:BF:106:ARG:NH2	2.34	0.42
42:BG:34:LEU:O	42:BG:34:LEU:CD1	2.65	0.42
42:BG:54:GLU:C	42:BG:56:ALA:N	2.73	0.42
42:BG:102:PHE:O	42:BG:104:GLU:N	2.53	0.42
43:BH:19:VAL:CG1	43:BH:20:ALA:H	2.32	0.42
43:BH:97:ARG:O	43:BH:103:LEU:HD12	2.19	0.42
46:BN:28:THR:CG2	46:BN:29:LYS:N	2.56	0.42
46:BN:128:HIS:CD2	46:BN:130:HIS:CE1	3.06	0.42
48:BP:97:PRO:HD3	48:BP:126:VAL:O	2.20	0.42
49:BQ:51:ARG:HG2	49:BQ:52:VAL:N	2.34	0.42
52:BT:50:ILE:HG13	52:BT:99:LEU:CD1	2.50	0.42
52:BT:83:ILE:O	52:BT:84:GLN:C	2.62	0.42
53:BU:17:ILE:HD12	53:BU:17:ILE:N	2.33	0.42
54:BV:36:PRO:HA	54:BV:56:SER:HB2	1.99	0.42
55:BW:112:GLY:O	55:BW:113:LYS:O	2.37	0.42
56:BX:12:VAL:HG12	56:BX:27:THR:H	1.83	0.42
56:BX:18:TYR:C	56:BX:20:GLY:N	2.76	0.42
1:CA:154:C:H2'	1:CA:155:C:H6	1.81	0.42
1:CA:220:G:H2'	1:CA:220:G:N3	2.34	0.42
1:CA:260:G:C2'	1:CA:261:U:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.19	0.42
1:CA:302:G:H2'	1:CA:303:A:H8	1.85	0.42
1:CA:368:U:P	25:CZ:291:ARG:HH11	2.43	0.42
1:CA:607:A:H2'	1:CA:608:A:C8	2.55	0.42
1:CA:748:C:O2'	1:CA:749:C:P	2.77	0.42
1:CA:1001:A:O2'	1:CA:1001(A):G:C2	2.68	0.42
1:CA:1150:U:H1'	1:CA:1280:A:C6	2.54	0.42
1:CA:1345:U:C4	1:CA:1377:A:N3	2.87	0.42
1:CA:1439:C:O2	1:CA:1439:C:H2'	2.19	0.42
2:CB:162:ILE:HG23	2:CB:184:VAL:HG13	2.02	0.42
2:CB:172:ILE:H	2:CB:172:ILE:CD1	2.21	0.42
3:CC:58:GLU:O	3:CC:65:ALA:CB	2.68	0.42
3:CC:113:ALA:H	3:CC:202:ILE:HD12	1.84	0.42
4:CD:13:ARG:HH22	4:CD:40:PRO:HA	1.85	0.42
4:CD:57:ARG:NH2	4:CD:205:GLU:OE2	2.52	0.42
6:CF:62:TRP:CE2	18:CR:35:ARG:NH2	2.87	0.42
8:CH:17:THR:O	8:CH:20:TYR:N	2.51	0.42
8:CH:33:GLU:O	8:CH:36:LEU:N	2.52	0.42
8:CH:103:VAL:HG21	8:CH:109:ILE:O	2.19	0.42
8:CH:127:LEU:HD22	8:CH:127:LEU:HA	1.91	0.42
9:CI:4:TYR:HB2	9:CI:19:LEU:CB	2.32	0.42
11:CK:33:THR:HG21	11:CK:37:GLY:O	2.19	0.42
12:CL:121:GLY:O	12:CL:122:THR:C	2.63	0.42
17:CQ:83:ASP:O	17:CQ:86:GLU:HB2	2.20	0.42
24:CY:1:G:OP1	25:CZ:348:ASP:OD1	2.38	0.42
24:CY:56:C:O2'	24:CY:57:G:H5'	2.17	0.42
25:CZ:69:GLU:CD	25:CZ:273:HIS:HB3	2.44	0.42
25:CZ:85:HIS:C	25:CZ:86:ALA:O	2.62	0.42
25:CZ:138:VAL:CG2	25:CZ:174:SER:N	2.83	0.42
26:D0:12:ASN:HA	26:D0:14:ARG:NH1	2.34	0.42
26:D0:24:LYS:CD	36:DA:2355:C:H4'	2.49	0.42
26:D0:24:LYS:NZ	36:DA:2355:C:O2'	2.47	0.42
27:D1:86:SER:HB2	27:D1:89:GLU:CD	2.44	0.42
32:D6:20:ASN:HD21	32:D6:42:TRP:H	1.67	0.42
36:DA:15:G:C6	36:DA:16:G:C5	3.08	0.42
36:DA:16:G:O2'	36:DA:17:G:H5'	2.19	0.42
36:DA:141:A:N6	36:DA:142:A:N6	2.68	0.42
36:DA:242:G:O2'	36:DA:254:G:O6	2.36	0.42
36:DA:252:G:P	48:DP:50:ARG:NH1	2.92	0.42
36:DA:479:A:H1'	36:DA:481:G:H5''	2.01	0.42
36:DA:487:C:O4'	55:DW:56:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:575:A:C2'	36:DA:576:U:H5'	2.49	0.42
36:DA:659:C:H6	36:DA:659:C:O5'	2.02	0.42
36:DA:882:G:N2	36:DA:895:U:C2	2.87	0.42
36:DA:919:G:H22	36:DA:2268:A:H3'	1.84	0.42
36:DA:1017:G:N3	36:DA:1017:G:H2'	2.35	0.42
36:DA:1051:G:H2'	36:DA:1052:C:C2	2.54	0.42
36:DA:1142(A):A:H8	36:DA:1142(A):A:H5'	1.84	0.42
36:DA:1150:C:H2'	36:DA:1151:G:O4'	2.19	0.42
36:DA:1466:G:C3'	36:DA:1547:C:H41	2.29	0.42
36:DA:1596:A:O2'	36:DA:1597:A:H5'	2.20	0.42
36:DA:1625:C:H2'	36:DA:1626:G:O4'	2.19	0.42
36:DA:1653:G:O2'	50:DR:3:HIS:CB	2.67	0.42
36:DA:1801:G:C3'	36:DA:1802:A:H5'	2.49	0.42
36:DA:1827:C:H2'	36:DA:1828:G:C4'	2.49	0.42
36:DA:1975:G:C2	36:DA:1976:U:C2	3.08	0.42
36:DA:2134:A:H2	36:DA:2159:G:H4'	1.84	0.42
36:DA:2199:A:H5'	36:DA:2200:C:OP2	2.19	0.42
36:DA:2526:G:H8	36:DA:2526:G:O5'	2.01	0.42
36:DA:2628:C:O2'	36:DA:2782:G:OP1	2.31	0.42
36:DA:2732:G:O2'	36:DA:2733:A:H5'	2.20	0.42
36:DA:2781:A:H5'	36:DA:2782:G:O4'	2.20	0.42
36:DA:2851:A:H2'	36:DA:2852:G:H5'	2.00	0.42
37:DB:67:G:O2'	37:DB:68:C:O5'	2.34	0.42
39:DD:69:ARG:NH2	39:DD:130:ALA:HB2	2.34	0.42
39:DD:117:VAL:HG21	39:DD:128:GLY:C	2.44	0.42
39:DD:167:GLY:O	39:DD:173:VAL:HG23	2.20	0.42
40:DE:13:ARG:O	52:DT:57:PHE:CE1	2.71	0.42
40:DE:93:VAL:HG23	40:DE:180:ASN:OD1	2.19	0.42
40:DE:129:HIS:O	40:DE:130:GLY:O	2.38	0.42
41:DF:6:VAL:CG1	41:DF:7:TYR:H	2.17	0.42
41:DF:118:ALA:CA	41:DF:123:LEU:HB2	2.44	0.42
42:DG:16:ARG:O	42:DG:17:PRO:C	2.61	0.42
42:DG:138:GLN:HA	42:DG:155:MET:HE1	2.01	0.42
43:DH:56:SER:HB2	43:DH:58:GLU:HG3	2.01	0.42
45:DK:20:UNK:HA	45:DK:24:UNK:CB	2.49	0.42
46:DN:47:ALA:C	46:DN:49:GLY:H	2.27	0.42
49:DQ:38:GLU:O	49:DQ:39:PRO:C	2.62	0.42
55:DW:1:MET:HG2	55:DW:64:MET:HE3	2.01	0.42
57:DY:17:SER:HB3	57:DY:71:LYS:HB3	2.01	0.42
57:DY:81:LYS:HB2	57:DY:81:LYS:HE3	1.82	0.42
58:DZ:127:LYS:H	58:DZ:163:LEU:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:127:G:H2'	1:AA:128:G:H8	1.84	0.42
1:AA:182:U:OP2	1:AA:183:G:OP2	2.37	0.42
1:AA:266:G:O2'	1:AA:267:C:OP2	2.34	0.42
1:AA:325:A:N6	1:AA:326:G:C2	2.88	0.42
1:AA:428:G:O2'	1:AA:429:U:P	2.77	0.42
1:AA:533:A:O2'	1:AA:535:A:OP2	2.34	0.42
1:AA:707:C:O2'	1:AA:708:C:C5'	2.67	0.42
1:AA:880:C:P	12:AL:12:ARG:HH11	2.42	0.42
1:AA:961:U:O2'	1:AA:962:C:C5'	2.68	0.42
1:AA:993:G:N1	1:AA:1046:A:C4	2.87	0.42
1:AA:1398:A:N6	5:AE:21:ALA:HA	2.34	0.42
2:AB:203:GLY:O	2:AB:204:ASN:C	2.62	0.42
2:AB:219:VAL:O	2:AB:223:ILE:HG13	2.20	0.42
3:AC:92:ALA:CA	3:AC:99:VAL:HG11	2.50	0.42
3:AC:113:ALA:C	3:AC:185:GLY:HA3	2.44	0.42
4:AD:59:ARG:HE	4:AD:59:ARG:CA	2.33	0.42
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.99	0.42
4:AD:121:VAL:O	4:AD:134:ASP:CB	2.68	0.42
5:AE:132:ALA:O	5:AE:135:THR:HB	2.18	0.42
5:AE:144:THR:O	5:AE:145:LYS:C	2.62	0.42
7:AG:9:VAL:HG22	7:AG:94:ARG:HH11	1.84	0.42
10:AJ:38:ILE:HD11	10:AJ:71:LEU:CG	2.49	0.42
11:AK:58:PRO:O	11:AK:59:TYR:C	2.62	0.42
12:AL:93:LEU:O	12:AL:94:PRO:O	2.38	0.42
13:AM:94:ARG:HD2	13:AM:94:ARG:N	2.34	0.42
13:AM:107:ALA:O	13:AM:109:THR:N	2.52	0.42
13:AM:115:LYS:O	13:AM:116:THR:O	2.38	0.42
15:AO:61:GLY:O	15:AO:62:GLN:C	2.63	0.42
16:AP:77:ALA:O	16:AP:78:GLY:C	2.62	0.42
18:AR:53:ARG:CG	18:AR:63:GLN:HB2	2.50	0.42
20:AT:14:LYS:HA	20:AT:17:ARG:HH21	1.84	0.42
22:AV:18:G:C4	22:AV:58:A:C2	3.08	0.42
24:AY:30:C:H42	24:AY:40:G:H1	1.67	0.42
25:AZ:13:ASN:HA	25:AZ:78:SER:HB2	2.00	0.42
25:AZ:300:ARG:HG2	25:AZ:300:ARG:HH11	1.85	0.42
28:B2:21:LEU:HD13	28:B2:64:LEU:CB	2.49	0.42
31:B5:4:HIS:C	36:BA:2056:G:H22	2.27	0.42
31:B5:43:HIS:HA	36:BA:2884:U:C5	2.54	0.42
32:B6:11:LEU:HG	32:B6:51:GLU:HG2	2.00	0.42
34:B8:7:HIS:C	34:B8:9:GLY:N	2.73	0.42
36:BA:55:G:H2'	36:BA:55:G:N3	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:83:G:O2'	36:BA:102:G:N2	2.51	0.42
36:BA:237:C:O2'	36:BA:238:C:H5'	2.20	0.42
36:BA:240:G:O2'	36:BA:257:A:N6	2.53	0.42
36:BA:402:A:H2'	36:BA:403:U:H5'	2.02	0.42
36:BA:491:G:H2'	36:BA:492:A:C8	2.54	0.42
36:BA:564:C:C4	36:BA:565:C:C4	3.07	0.42
36:BA:635:C:H2'	36:BA:636:G:H8	1.83	0.42
36:BA:730:C:O2'	36:BA:731:C:H5'	2.19	0.42
36:BA:1145:C:H2'	36:BA:1146:C:C6	2.54	0.42
36:BA:1346:G:H2'	36:BA:1347:G:C8	2.54	0.42
36:BA:1541:G:HO2'	36:BA:1542:A:P	2.43	0.42
36:BA:2053:G:C2	36:BA:2054:A:C1'	3.00	0.42
36:BA:2072:G:N2	36:BA:2073:C:C2	2.88	0.42
36:BA:2123:G:O4'	38:BC:172:HIS:HB2	2.19	0.42
36:BA:2331:G:C2	36:BA:2385:C:C4	3.07	0.42
36:BA:2359:C:C4	36:BA:2360:A:C5	3.07	0.42
36:BA:2565:A:H2'	36:BA:2566:A:O4'	2.19	0.42
36:BA:2669:G:C2	36:BA:2670:A:C5	3.08	0.42
36:BA:2778:A:O2'	36:BA:2780:G:O2'	2.36	0.42
37:BB:7:G:H3'	37:BB:8:U:C5'	2.32	0.42
39:BD:215:LEU:HB2	39:BD:217:ARG:HG3	2.02	0.42
40:BE:51:PHE:HD1	40:BE:51:PHE:C	2.27	0.42
40:BE:82:ARG:HD2	40:BE:82:ARG:HA	1.76	0.42
42:BG:61:ALA:O	42:BG:65:GLY:N	2.52	0.42
42:BG:129:GLY:HA3	42:BG:163:ALA:O	2.20	0.42
44:BJ:23:UNK:CB	44:BJ:92:UNK:CB	2.98	0.42
46:BN:2:LYS:HZ1	53:BU:95:LEU:HD21	1.85	0.42
46:BN:65:LYS:HB3	46:BN:65:LYS:HZ3	1.83	0.42
46:BN:132:ALA:O	46:BN:133:GLN:CB	2.65	0.42
47:BO:35:VAL:CG1	47:BO:103:ALA:HB3	2.34	0.42
48:BP:78:PRO:CB	48:BP:111:ARG:HH21	2.30	0.42
48:BP:121:LYS:O	48:BP:123:LEU:N	2.40	0.42
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	2.01	0.42
48:BP:147:LEU:O	48:BP:148:LEU:HB2	2.20	0.42
49:BQ:34:LEU:HA	49:BQ:130:LYS:O	2.20	0.42
49:BQ:111:GLU:OE1	49:BQ:133:ARG:NH2	2.53	0.42
54:BV:31:ALA:O	54:BV:61:VAL:HG13	2.19	0.42
57:BY:15:VAL:CG1	57:BY:20:TYR:O	2.68	0.42
1:CA:429:U:H4'	1:CA:430:A:O5'	2.18	0.42
1:CA:544:G:H5''	4:CD:62:GLN:OE1	2.20	0.42
1:CA:607:A:H2'	1:CA:608:A:H8	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:673:G:N2	1:CA:674:G:C2	2.88	0.42
1:CA:713:G:O2'	1:CA:714:G:H5'	2.20	0.42
1:CA:739:C:HO2'	1:CA:740:U:H5'	1.84	0.42
1:CA:936:C:HO2'	1:CA:937:A:H5'	1.82	0.42
1:CA:977:A:O2'	1:CA:978:A:C5'	2.67	0.42
1:CA:1145:C:H1'	1:CA:1146:A:N7	2.33	0.42
1:CA:1237:C:O4'	1:CA:1334:G:N2	2.52	0.42
2:CB:15:VAL:H	2:CB:16:HIS:HD1	1.67	0.42
2:CB:59:GLU:HB2	2:CB:221:LEU:HD11	2.00	0.42
2:CB:111:ARG:NH1	2:CB:111:ARG:HG2	2.35	0.42
3:CC:141:VAL:O	3:CC:144:SER:N	2.52	0.42
4:CD:135:LEU:O	4:CD:137:SER:N	2.52	0.42
6:CF:14:LEU:HD13	6:CF:15:ASP:OD1	2.20	0.42
7:CG:31:MET:SD	7:CG:34:GLY:HA2	2.59	0.42
7:CG:35:LYS:O	7:CG:36:LYS:C	2.63	0.42
7:CG:71:PRO:HB3	7:CG:138:LYS:HG3	2.01	0.42
7:CG:87:VAL:HA	7:CG:88:PRO:HD3	1.90	0.42
7:CG:150:ALA:O	7:CG:153:HIS:HE1	2.01	0.42
8:CH:70:GLN:O	8:CH:71:GLY:O	2.37	0.42
9:CI:86:VAL:O	9:CI:90:PRO:HA	2.20	0.42
11:CK:41:THR:HG21	11:CK:72:ALA:CA	2.47	0.42
12:CL:27:LEU:O	12:CL:28:LYS:C	2.63	0.42
13:CM:77:ASN:O	13:CM:81:LEU:HD23	2.20	0.42
16:CP:49:LEU:HD12	16:CP:49:LEU:C	2.45	0.42
24:CY:75:C:H5	25:CZ:231:ILE:HA	1.75	0.42
25:CZ:24:LYS:CE	25:CZ:84:GLY:HA3	2.49	0.42
25:CZ:350:THR:O	25:CZ:375:ILE:HG12	2.19	0.42
28:D2:11:GLU:C	28:D2:13:ALA:N	2.75	0.42
28:D2:21:LEU:O	28:D2:21:LEU:HD23	2.18	0.42
29:D3:9:VAL:HG12	29:D3:32:GLN:NE2	2.34	0.42
29:D3:15:TYR:HB3	29:D3:16:PRO:CD	2.49	0.42
32:D6:11:LEU:HD22	32:D6:12:GLU:N	2.31	0.42
34:D8:6:THR:CG2	34:D8:63:PRO:HD3	2.49	0.42
36:DA:71:A:C5	36:DA:73:A:N1	2.88	0.42
36:DA:118:A:H5'	36:DA:119:A:H8	1.85	0.42
36:DA:267:C:H2'	36:DA:268:C:H6	1.83	0.42
36:DA:321:G:N3	41:DF:165:ARG:HD3	2.34	0.42
36:DA:406:G:C6	36:DA:407:G:C6	3.07	0.42
36:DA:460:A:H1'	36:DA:470:A:N6	2.34	0.42
36:DA:548:A:H2'	36:DA:549:G:C5'	2.49	0.42
36:DA:761:A:H8	36:DA:761:A:P	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:813:U:H3	36:DA:1194:A:H61	1.68	0.42
36:DA:816:C:H2'	36:DA:817:C:H6	1.84	0.42
36:DA:1474:C:H5'	36:DA:1475:G:P	2.60	0.42
36:DA:1484:G:C3'	36:DA:1485:G:C5'	2.94	0.42
36:DA:1504:C:O2'	36:DA:1505:C:H5'	2.18	0.42
36:DA:1676:A:H2'	36:DA:1677:A:O4'	2.20	0.42
36:DA:1680:U:H2'	36:DA:1681:G:C8	2.55	0.42
36:DA:1829:A:N6	36:DA:1977:A:N6	2.68	0.42
36:DA:1834:U:H5''	36:DA:1835:G:O5'	2.19	0.42
36:DA:2133:G:C1'	36:DA:2157:G:H22	2.33	0.42
36:DA:2308:G:C2	36:DA:2309:A:C6	3.07	0.42
36:DA:2319:G:O6	51:DS:11:LYS:HD3	2.20	0.42
36:DA:2543:G:H2'	36:DA:2544:G:C8	2.55	0.42
36:DA:2657:A:C2'	43:DH:160:LYS:HZ3	2.31	0.42
36:DA:2732:G:C3'	36:DA:2733:A:H5'	2.49	0.42
37:DB:98:G:C4	37:DB:99:G:C8	3.07	0.42
38:DC:76:ALA:HA	38:DC:114:VAL:CG2	2.49	0.42
39:DD:72:LYS:HB3	39:DD:75:ILE:HB	2.02	0.42
40:DE:83:ASP:O	40:DE:84:PHE:CB	2.66	0.42
41:DF:28:ILE:O	41:DF:28:ILE:HG12	2.19	0.42
41:DF:37:VAL:HG22	41:DF:183:VAL:CG2	2.46	0.42
41:DF:110:LEU:HD13	41:DF:110:LEU:C	2.45	0.42
41:DF:110:LEU:HD12	41:DF:206:ILE:CD1	2.49	0.42
41:DF:182:ASN:OD1	41:DF:185:ASP:HB2	2.19	0.42
47:DO:104:ARG:HB2	47:DO:104:ARG:HH11	1.82	0.42
48:DP:135:LEU:HD13	48:DP:135:LEU:C	2.43	0.42
49:DQ:79:LEU:HD23	49:DQ:80:GLU:HG3	2.01	0.42
49:DQ:135:ASP:HB3	58:DZ:49:ARG:HH11	1.85	0.42
50:DR:52:ILE:O	50:DR:55:ALA:N	2.52	0.42
51:DS:37:ALA:HB2	51:DS:99:LYS:HZ3	1.81	0.42
51:DS:63:THR:O	51:DS:65:VAL:N	2.52	0.42
54:DV:29:PRO:CA	54:DV:61:VAL:CG2	2.90	0.42
57:DY:67:LEU:HD23	57:DY:68:HIS:N	2.35	0.42
57:DY:76:CYS:O	57:DY:78:ALA:N	2.52	0.42
1:AA:59:A:H3'	1:AA:331:G:H22	1.83	0.42
1:AA:204:U:O2	1:AA:204:U:O4'	2.37	0.42
1:AA:236:G:H2'	1:AA:237:C:O4'	2.19	0.42
1:AA:328:C:O2	1:AA:328:C:C2'	2.67	0.42
1:AA:447:G:C2'	1:AA:485:G:H22	2.28	0.42
1:AA:522:C:H1'	1:AA:536:C:H5'	2.01	0.42
1:AA:524:G:OP1	1:AA:524:G:H8	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:734:G:H2'	1:AA:735:C:H6	1.82	0.42
1:AA:792:A:O2'	1:AA:794:A:N7	2.37	0.42
1:AA:864:A:C2	1:AA:917:G:N3	2.85	0.42
1:AA:889:A:H1'	1:AA:891:U:C5	2.54	0.42
1:AA:917:G:C2	1:AA:918:A:C4	3.07	0.42
1:AA:961:U:H5'	1:AA:984:C:H1'	2.02	0.42
1:AA:967:C:H2'	1:AA:968:A:N7	2.34	0.42
1:AA:1003:G:N2	1:AA:1038:C:N3	2.68	0.42
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.35	0.42
1:AA:1351:U:H5	9:AI:118:LYS:HZ1	1.61	0.42
1:AA:1531:A:H8	1:AA:1531:A:C5'	2.32	0.42
2:AB:25:ASN:HA	2:AB:26:PRO:HD2	1.90	0.42
3:AC:70:VAL:O	3:AC:106:VAL:CG2	2.63	0.42
3:AC:112:SER:HA	3:AC:183:ASP:OD1	2.19	0.42
3:AC:141:VAL:O	3:AC:144:SER:N	2.53	0.42
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	2.00	0.42
3:AC:186:PHE:CD1	3:AC:198:VAL:O	2.73	0.42
4:AD:17:VAL:O	4:AD:18:LYS:C	2.62	0.42
5:AE:34:VAL:CG1	5:AE:62:ALA:HB1	2.50	0.42
5:AE:101:ILE:O	5:AE:120:THR:CG2	2.66	0.42
5:AE:107:ARG:C	5:AE:109:ILE:N	2.77	0.42
5:AE:130:ASN:O	5:AE:131:ILE:C	2.61	0.42
5:AE:139:LEU:HA	5:AE:142:LEU:HG	2.02	0.42
7:AG:36:LYS:HA	7:AG:39:ALA:CB	2.46	0.42
7:AG:62:PHE:HD1	7:AG:124:LEU:HD11	1.85	0.42
8:AH:6:ILE:HG22	8:AH:7:ALA:N	2.35	0.42
11:AK:41:THR:HG21	11:AK:72:ALA:CA	2.50	0.42
12:AL:17:LYS:CE	12:AL:18:VAL:HG22	2.49	0.42
12:AL:117:ARG:C	12:AL:119:LYS:N	2.77	0.42
13:AM:19:LEU:H	13:AM:19:LEU:CD2	2.32	0.42
13:AM:86:CYS:C	13:AM:88:ARG:N	2.77	0.42
14:AN:47:LEU:O	14:AN:50:LYS:N	2.52	0.42
16:AP:16:HIS:O	16:AP:17:TYR:C	2.63	0.42
17:AQ:86:GLU:O	17:AQ:87:LYS:C	2.63	0.42
25:AZ:89:ILE:O	25:AZ:92:MET:N	2.42	0.42
25:AZ:334:PHE:N	25:AZ:334:PHE:CD1	2.87	0.42
26:B0:12:ASN:HA	26:B0:14:ARG:NH1	2.34	0.42
28:B2:50:ILE:HG21	36:BA:61:G:H5'	2.02	0.42
29:B3:48:GLU:C	29:B3:50:VAL:H	2.28	0.42
34:B8:22:VAL:C	34:B8:23:VAL:HG23	2.44	0.42
35:B9:22:ARG:NH1	36:BA:2741:A:OP1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:18:C:H2'	36:BA:19:C:C6	2.55	0.42
36:BA:27:G:H22	36:BA:512:G:H2'	1.77	0.42
36:BA:321:G:N3	41:BF:165:ARG:HD3	2.34	0.42
36:BA:530:G:C6	36:BA:2022:U:H5''	2.54	0.42
36:BA:846:C:O5'	36:BA:846:C:H6	2.01	0.42
36:BA:880:G:C2	36:BA:881:G:N7	2.87	0.42
36:BA:1092:C:N4	36:BA:1093:G:C2	2.87	0.42
36:BA:1394:U:C4	36:BA:1395:A:C5	3.08	0.42
36:BA:1759:A:C8	36:BA:2696:U:O2	2.72	0.42
36:BA:1786:A:C5	36:BA:1938:A:C2	3.07	0.42
36:BA:1795:C:O2	39:BD:255:LYS:NZ	2.49	0.42
36:BA:1851:U:O2'	36:BA:1852:C:H5'	2.19	0.42
36:BA:1889:A:N1	36:BA:2234:G:H1'	2.35	0.42
36:BA:2207:G:H5''	36:BA:2207:G:N3	2.35	0.42
36:BA:2267:A:H3'	36:BA:2267:A:N3	2.34	0.42
36:BA:2370:G:H2'	36:BA:2371:G:C8	2.55	0.42
36:BA:2439:A:OP1	36:BA:2439:A:H2'	2.20	0.42
36:BA:2454:G:O2'	36:BA:2455:G:C5'	2.66	0.42
36:BA:2498:C:HO2'	36:BA:2499:C:H5'	1.83	0.42
36:BA:2724:C:H2'	36:BA:2725:A:H8	1.81	0.42
38:BC:1:PRO:O	38:BC:3:HIS:N	2.52	0.42
39:BD:170:GLY:C	39:BD:172:TYR:N	2.77	0.42
40:BE:60:ASN:O	40:BE:61:ARG:C	2.62	0.42
42:BG:16:ARG:HD2	42:BG:31:VAL:HG21	2.01	0.42
42:BG:44:GLY:O	42:BG:47:LYS:HD2	2.18	0.42
42:BG:58:GLN:HE22	42:BG:62:LEU:CD1	2.29	0.42
42:BG:150:ASP:OD2	42:BG:153:ARG:NH1	2.48	0.42
43:BH:19:VAL:O	43:BH:20:ALA:HB2	2.18	0.42
47:BO:25:LEU:HD11	47:BO:40:VAL:CG2	2.50	0.42
48:BP:46:LYS:HB3	48:BP:47:ASP:H	1.72	0.42
49:BQ:24:GLY:O	49:BQ:25:ASP:C	2.63	0.42
49:BQ:136:ALA:C	49:BQ:138:ASP:N	2.78	0.42
49:BQ:140:ALA:CA	58:BZ:99:TYR:CD1	3.02	0.42
51:BS:32:LEU:H	51:BS:32:LEU:HG	1.60	0.42
51:BS:106:ARG:O	51:BS:107:GLU:HB3	2.19	0.42
52:BT:28:VAL:O	52:BT:29:ARG:HB2	2.19	0.42
53:BU:109:LEU:HA	53:BU:112:ARG:HB2	2.01	0.42
54:BV:51:VAL:HG12	54:BV:52:VAL:N	2.33	0.42
56:BX:13:LEU:O	56:BX:14:SER:HB3	2.20	0.42
57:BY:28:LYS:O	57:BY:29:GLU:C	2.61	0.42
57:BY:63:LYS:HG2	57:BY:64:GLU:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BY:76:CYS:O	57:BY:78:ALA:N	2.53	0.42
58:BZ:76:LEU:CD2	58:BZ:76:LEU:C	2.93	0.42
1:CA:532:A:H2	1:CA:1206:G:N2	2.15	0.42
1:CA:596:C:O2	1:CA:596:C:H2'	2.19	0.42
1:CA:773:G:N1	1:CA:774:G:C5	2.88	0.42
1:CA:785:G:C6	1:CA:786:G:N7	2.88	0.42
1:CA:836:G:C5	1:CA:851:G:C6	3.08	0.42
1:CA:974:A:C8	14:CN:31:ARG:HD2	2.54	0.42
1:CA:1014:A:C2	1:CA:1219:U:H1'	2.54	0.42
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.37	0.42
1:CA:1121:U:H2'	1:CA:1122:U:H6	1.84	0.42
1:CA:1134:G:N2	1:CA:1142:G:C6	2.87	0.42
1:CA:1148:U:H2'	1:CA:1149:C:H5'	2.01	0.42
1:CA:1231:G:C5	1:CA:1232:U:C5	3.08	0.42
1:CA:1281:U:H3'	1:CA:1282:C:H6	1.82	0.42
1:CA:1503:A:C4	23:CX:16:A:C6	3.08	0.42
2:CB:76:GLN:O	2:CB:77:ALA:CB	2.67	0.42
2:CB:82:ARG:C	2:CB:86:GLU:HG3	2.44	0.42
2:CB:157:ARG:NH1	2:CB:157:ARG:HB2	2.34	0.42
2:CB:219:VAL:HA	2:CB:222:ILE:CG1	2.50	0.42
3:CC:104:GLN:C	3:CC:105:GLU:O	2.63	0.42
4:CD:121:VAL:O	4:CD:134:ASP:CB	2.68	0.42
4:CD:145:GLU:HG3	4:CD:184:LYS:HG2	2.02	0.42
4:CD:170:VAL:CG1	4:CD:174:LEU:HB2	2.50	0.42
5:CE:79:GLU:H	5:CE:93:PRO:HD3	1.84	0.42
5:CE:84:PHE:C	5:CE:86:ALA:H	2.25	0.42
10:CJ:43:ARG:HG3	10:CJ:43:ARG:HH11	1.85	0.42
11:CK:108:ILE:HB	18:CR:87:ARG:HA	2.01	0.42
12:CL:89:ARG:HH11	12:CL:91:LYS:HD3	1.81	0.42
16:CP:50:LYS:C	16:CP:51:VAL:CG2	2.92	0.42
16:CP:74:LEU:HD22	16:CP:79:VAL:HG21	2.02	0.42
22:CV:17:C:H3'	22:CV:18:G:C5'	2.49	0.42
22:CV:56:C:N3	42:DG:83:ARG:HD3	2.34	0.42
22:CW:66:U:H2'	22:CW:67:C:H6	1.83	0.42
22:CW:68:C:O5'	22:CW:68:C:H6	2.03	0.42
25:CZ:155:ARG:HG2	25:CZ:155:ARG:NH1	2.35	0.42
31:D5:4:HIS:O	36:DA:2056:G:C2	2.72	0.42
31:D5:43:HIS:HA	36:DA:2884:U:C5	2.54	0.42
36:DA:25:U:H2'	36:DA:26:G:C8	2.55	0.42
36:DA:250:G:OP1	36:DA:2394:C:H4'	2.19	0.42
36:DA:270:A:N1	36:DA:366:C:O2'	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:531:C:O2'	36:DA:563:G:H5''	2.19	0.42
36:DA:654:A:H4'	36:DA:654(A):G:C4'	2.50	0.42
36:DA:757:U:H6	36:DA:757:U:H3'	1.85	0.42
36:DA:846:C:O5'	36:DA:846:C:H6	2.03	0.42
36:DA:1227:G:O2'	36:DA:1228:G:H5'	2.19	0.42
36:DA:1266:G:N2	36:DA:2012:G:H2'	2.35	0.42
36:DA:1383:C:P	36:DA:1573:G:H21	2.42	0.42
36:DA:1838:C:C6	36:DA:1898:U:C5	3.07	0.42
36:DA:2100:G:H2'	36:DA:2100:G:N3	2.35	0.42
36:DA:2189:U:C3'	36:DA:2190:G:H4'	2.50	0.42
36:DA:2332:U:H4'	36:DA:2336:A:H62	1.85	0.42
36:DA:2468:G:H2'	36:DA:2476:A:N7	2.34	0.42
36:DA:2540:C:H2'	36:DA:2541:A:O4'	2.19	0.42
36:DA:2589:A:C2	36:DA:2606:C:N3	2.88	0.42
36:DA:2661:G:H2'	36:DA:2662:A:C8	2.54	0.42
36:DA:2685:G:H5'	47:DO:68:GLU:OE1	2.20	0.42
36:DA:2770:G:C5'	36:DA:2771:C:OP2	2.67	0.42
36:DA:2791:C:H2'	36:DA:2791:C:O2	2.20	0.42
37:DB:6:C:O2	37:DB:6:C:H2'	2.20	0.42
37:DB:15:A:H3'	37:DB:16:G:C5'	2.50	0.42
37:DB:115:G:H4'	51:DS:47:THR:HB	2.02	0.42
39:DD:130:ALA:C	39:DD:131:LEU:CG	2.93	0.42
39:DD:147:LEU:HD12	39:DD:147:LEU:HA	1.68	0.42
40:DE:178:GLU:CG	40:DE:179:GLU:H	2.33	0.42
41:DF:77:ASP:O	41:DF:78:ILE:C	2.63	0.42
42:DG:44:GLY:O	42:DG:47:LYS:CE	2.68	0.42
43:DH:13:LYS:C	43:DH:15:VAL:H	2.28	0.42
46:DN:42:TRP:HZ3	46:DN:48:MET:HE1	1.84	0.42
48:DP:98:GLU:CA	48:DP:101:VAL:HG13	2.50	0.42
48:DP:105:LEU:O	48:DP:106:LEU:CB	2.58	0.42
48:DP:146:VAL:CG2	48:DP:147:LEU:N	2.67	0.42
49:DQ:42:ILE:O	49:DQ:94:VAL:HG12	2.19	0.42
52:DT:91:ARG:HA	52:DT:117:ASP:H	1.85	0.42
52:DT:107:ASP:CG	52:DT:109:GLU:HG3	2.45	0.42
54:DV:22:VAL:O	54:DV:23:GLU:HB2	2.20	0.42
54:DV:58:VAL:HG21	54:DV:98:GLU:HG2	2.02	0.42
56:DX:35:THR:C	56:DX:37:THR:H	2.27	0.42
1:AA:40:C:H42	1:AA:403:C:N4	2.16	0.42
1:AA:191:G:O2'	20:AT:102:GLY:O	2.33	0.42
1:AA:316:G:N1	1:AA:338:A:C6	2.88	0.42
1:AA:392:G:C4	1:AA:393:A:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:503:C:C6	1:AA:504:C:H5	2.38	0.42
1:AA:511:C:N4	1:AA:541:G:C2	2.87	0.42
1:AA:532:A:H3'	1:AA:533:A:H5'	2.01	0.42
1:AA:634:C:O2	1:AA:634:C:H2'	2.19	0.42
1:AA:663:A:C2'	1:AA:664:G:H5'	2.49	0.42
1:AA:773:G:C2	1:AA:774:G:C8	3.08	0.42
1:AA:1055:A:N6	1:AA:1206:G:C6	2.88	0.42
1:AA:1106:G:C2'	1:AA:1107:C:H5'	2.50	0.42
1:AA:1130:A:N6	1:AA:1131:G:O6	2.53	0.42
1:AA:1255:G:N2	1:AA:1258:G:H21	2.15	0.42
1:AA:1519:A:H3'	1:AA:1520:G:H5'	2.02	0.42
2:AB:46:LYS:O	2:AB:47:THR:C	2.63	0.42
5:AE:119:LEU:HD23	5:AE:119:LEU:HA	1.84	0.42
6:AF:6:VAL:HG22	6:AF:90:VAL:HG23	2.01	0.42
7:AG:31:MET:SD	7:AG:34:GLY:HA2	2.60	0.42
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.77	0.42
12:AL:85:ILE:HD12	12:AL:85:ILE:HA	1.77	0.42
13:AM:17:VAL:O	13:AM:18:ALA:C	2.63	0.42
17:AQ:6:LEU:HB3	17:AQ:23:VAL:HG11	2.02	0.42
18:AR:31:LEU:CG	18:AR:65:ILE:HD12	2.49	0.42
18:AR:44:LEU:HB3	18:AR:48:GLY:C	2.45	0.42
18:AR:59:SER:O	18:AR:62:GLU:HB2	2.19	0.42
18:AR:63:GLN:HA	18:AR:63:GLN:OE1	2.20	0.42
19:AS:15:LEU:O	19:AS:19:VAL:N	2.52	0.42
21:AU:18:TYR:HB3	21:AU:22:ARG:O	2.19	0.42
22:AV:68:C:H2'	22:AV:69:G:C4'	2.50	0.42
22:AW:9:A:C2	22:AW:44:G:N1	2.87	0.42
25:AZ:83:PRO:O	25:AZ:84:GLY:C	2.62	0.42
25:AZ:140:MET:O	25:AZ:141:VAL:O	2.38	0.42
25:AZ:199:ILE:HG22	25:AZ:199:ILE:O	2.20	0.42
25:AZ:366:ASP:C	25:AZ:367:ASN:HD22	2.26	0.42
27:B1:33:LYS:H	27:B1:33:LYS:HG2	1.53	0.42
29:B3:12:PRO:CG	29:B3:13:ILE:H	2.27	0.42
33:B7:24:THR:HG1	33:B7:27:GLY:H	1.65	0.42
35:B9:7:VAL:HG13	35:B9:34:GLN:HG2	1.99	0.42
36:BA:491:G:H2'	36:BA:492:A:H8	1.84	0.42
36:BA:525:U:O5'	36:BA:556:G:C5'	2.66	0.42
36:BA:596:G:C6	36:BA:597:U:C4	3.08	0.42
36:BA:628:G:C2'	36:BA:629:G:C5'	2.95	0.42
36:BA:742:G:H2'	36:BA:743:G:C8	2.54	0.42
36:BA:783:A:C2'	36:BA:784:A:O5'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:942:G:H5'	48:BP:35:HIS:O	2.19	0.42
36:BA:1128:A:C5	36:BA:2518:A:N6	2.87	0.42
36:BA:1316:U:H5'	36:BA:1392:A:H1'	2.01	0.42
36:BA:1474:C:H5'	36:BA:1475:G:OP1	2.20	0.42
36:BA:1543:C:C3'	36:BA:1544:A:C5'	2.86	0.42
36:BA:1654:A:H2	40:BE:113:PHE:CE2	2.37	0.42
36:BA:2052:G:O4'	40:BE:142:GLY:HA3	2.19	0.42
36:BA:2110:G:O2'	36:BA:2111:C:H5'	2.20	0.42
36:BA:2126:A:N6	36:BA:2163:C:H4'	2.35	0.42
36:BA:2320:A:N3	36:BA:2320:A:C2'	2.83	0.42
36:BA:2405:G:H2'	36:BA:2411:A:H62	1.81	0.42
36:BA:2598:A:H5''	39:BD:235:GLY:HA3	2.02	0.42
36:BA:2682:U:C1'	40:BE:12:THR:HA	2.50	0.42
36:BA:2777:G:C8	36:BA:2777:G:H3'	2.55	0.42
36:BA:2839:G:C4	36:BA:2840:C:C5	3.08	0.42
37:BB:71:C:H2'	37:BB:71:C:O2	2.18	0.42
38:BC:43:VAL:O	38:BC:43:VAL:HG12	2.20	0.42
38:BC:91:ALA:HB3	38:BC:94:VAL:HG22	2.00	0.42
41:BF:107:LYS:O	41:BF:108:LYS:C	2.63	0.42
41:BF:116:ASP:O	41:BF:120:GLU:OE2	2.38	0.42
41:BF:122:LYS:CB	41:BF:191:ARG:HG3	2.50	0.42
42:BG:32:PRO:CB	42:BG:162:THR:HB	2.50	0.42
42:BG:155:MET:O	42:BG:156:ASP:C	2.63	0.42
43:BH:121:ILE:HG23	43:BH:133:VAL:CG1	2.49	0.42
48:BP:11:GLY:O	48:BP:12:ALA:C	2.63	0.42
48:BP:136:GLU:HA	48:BP:136:GLU:OE1	2.19	0.42
52:BT:12:SER:O	52:BT:13:ARG:NH2	2.53	0.42
52:BT:91:ARG:O	52:BT:117:ASP:CB	2.67	0.42
55:BW:11:ARG:O	55:BW:11:ARG:NE	2.51	0.42
56:BX:74:PRO:O	56:BX:76:ARG:CD	2.68	0.42
58:BZ:12:GLY:C	58:BZ:13:GLU:CG	2.93	0.42
58:BZ:94:GLU:O	58:BZ:96:VAL:N	2.52	0.42
1:CA:55:A:H3'	1:CA:56:U:C6	2.55	0.42
1:CA:100:C:H2'	1:CA:101:A:H8	1.76	0.42
1:CA:431:A:C2'	1:CA:432:A:H5'	2.50	0.42
1:CA:438:G:C4'	4:CD:123:HIS:ND1	2.83	0.42
1:CA:503:C:C6	1:CA:504:C:H5	2.37	0.42
1:CA:587:G:O2'	1:CA:588:G:H5'	2.20	0.42
1:CA:782:A:O3'	1:CA:1515:C:H4'	2.20	0.42
1:CA:952:U:H2'	1:CA:953:G:H8	1.85	0.42
1:CA:956:U:C2'	1:CA:957:U:H5'	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:959:A:H4'	1:CA:985:C:H5'	2.02	0.42
1:CA:1231:G:H2'	1:CA:1232:U:C6	2.54	0.42
1:CA:1278:U:H5'	1:CA:1279:A:C8	2.55	0.42
1:CA:1281:U:H3'	1:CA:1282:C:C5	2.55	0.42
1:CA:1370:G:C2	1:CA:1371:G:N7	2.88	0.42
1:CA:1423:G:C5	1:CA:1424:C:C5	3.08	0.42
1:CA:1460:A:C6	1:CA:1461:G:C4	3.07	0.42
1:CA:1523:G:H2'	1:CA:1524:C:C5	2.55	0.42
3:CC:103:VAL:CG1	3:CC:104:GLN:N	2.83	0.42
4:CD:125:HIS:ND1	4:CD:152:SER:OG	2.52	0.42
8:CH:67:PRO:C	8:CH:68:ARG:O	2.57	0.42
10:CJ:49:VAL:CG2	14:CN:41:ARG:CB	2.92	0.42
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD2	2.50	0.42
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.35	0.42
13:CM:91:ARG:C	13:CM:93:ARG:N	2.72	0.42
13:CM:109:THR:HG22	13:CM:110:ARG:N	2.34	0.42
14:CN:51:GLY:C	14:CN:53:LEU:H	2.28	0.42
15:CO:58:MET:O	15:CO:62:GLN:HB2	2.19	0.42
17:CQ:7:THR:HA	17:CQ:57:VAL:O	2.20	0.42
18:CR:85:LEU:HD12	18:CR:86:VAL:N	2.35	0.42
24:CY:54:5MU:H2'	24:CY:55:PSU:C5'	2.40	0.42
24:CY:75:C:C6	25:CZ:231:ILE:HA	2.53	0.42
25:CZ:241:ARG:HG2	25:CZ:242:ILE:N	2.31	0.42
25:CZ:366:ASP:C	25:CZ:367:ASN:HD22	2.27	0.42
27:D1:52:ARG:O	27:D1:53:VAL:HB	2.20	0.42
33:D7:4:THR:HB	36:DA:788:A:H1'	2.01	0.42
33:D7:19:ARG:NE	36:DA:124:G:H2'	2.35	0.42
33:D7:24:THR:HG23	33:D7:27:GLY:HA3	2.02	0.42
34:D8:6:THR:HG21	34:D8:63:PRO:HD3	2.02	0.42
34:D8:41:ILE:HG23	34:D8:42:ARG:N	2.33	0.42
35:D9:16:VAL:O	35:D9:16:VAL:HG12	2.20	0.42
36:DA:28:A:C8	36:DA:513:A:C5	3.08	0.42
36:DA:209:C:H4'	36:DA:681:G:H4'	2.02	0.42
36:DA:337:C:C3'	36:DA:338:G:H5''	2.49	0.42
36:DA:425:G:C4	36:DA:426:C:C5	3.08	0.42
36:DA:448:U:H1'	41:DF:84:VAL:HG13	2.02	0.42
36:DA:541:C:H2'	36:DA:542:C:C6	2.55	0.42
36:DA:784:A:O2'	36:DA:785:G:H8	2.03	0.42
36:DA:833:U:O5'	36:DA:833:U:H6	2.02	0.42
36:DA:880:G:C2	36:DA:881:G:N7	2.88	0.42
36:DA:882:G:N2	36:DA:894:C:H42	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:898:C:H2'	36:DA:899:A:C5'	2.45	0.42
36:DA:955:C:H2'	36:DA:956:G:C5'	2.48	0.42
36:DA:1011:G:OP1	53:DU:75:ASN:HB2	2.19	0.42
36:DA:1053:C:H2'	36:DA:1054:A:C8	2.54	0.42
36:DA:1464:C:H2'	36:DA:1465:G:H8	1.85	0.42
36:DA:1663:C:O2'	36:DA:1664:A:H8	2.02	0.42
36:DA:1670:C:C2'	36:DA:1671:U:H5'	2.50	0.42
36:DA:1795:C:O2	39:DD:255:LYS:NZ	2.43	0.42
36:DA:1911:U:O2'	36:DA:1912:A:H5''	2.19	0.42
36:DA:1939:U:OP1	36:DA:2604:U:O2'	2.37	0.42
36:DA:2018:G:H21	53:DU:34:LYS:NZ	2.18	0.42
36:DA:2082:A:N1	36:DA:2239:G:C4	2.88	0.42
36:DA:2130:U:O2	36:DA:2159:G:C2	2.73	0.42
36:DA:2131:G:C1'	36:DA:2133:G:H21	2.33	0.42
36:DA:2305:A:H1'	42:DG:135:LEU:O	2.20	0.42
36:DA:2373:G:O2'	36:DA:2374:C:H5'	2.19	0.42
36:DA:2404:C:H2'	36:DA:2405:G:H8	1.84	0.42
36:DA:2419:U:H2'	36:DA:2420:C:C6	2.53	0.42
36:DA:2481:G:O2'	36:DA:2482:G:P	2.77	0.42
36:DA:2826:A:H2'	36:DA:2827:C:H5'	2.00	0.42
36:DA:2851:A:H2'	36:DA:2852:G:C5'	2.49	0.42
37:DB:64:C:O2'	37:DB:65:C:H5'	2.20	0.42
37:DB:78:A:C5	37:DB:100:A:N7	2.88	0.42
38:DC:130:ILE:C	38:DC:132:GLY:N	2.78	0.42
38:DC:156:ILE:CD1	38:DC:160:ARG:NH2	2.83	0.42
38:DC:192:PHE:O	38:DC:195:ALA:N	2.52	0.42
39:DD:91:ARG:CG	39:DD:91:ARG:NH1	2.83	0.42
42:DG:16:ARG:HA	42:DG:16:ARG:HD3	1.78	0.42
42:DG:128:ARG:O	42:DG:129:GLY:O	2.38	0.42
48:DP:95:VAL:HG13	48:DP:123:LEU:HD12	2.01	0.42
49:DQ:121:ALA:O	49:DQ:125:LEU:HD23	2.20	0.42
52:DT:36:GLU:O	52:DT:37:GLY:C	2.63	0.42
52:DT:64:ARG:HH11	52:DT:64:ARG:HG2	1.85	0.42
54:DV:22:VAL:HG21	54:DV:94:LEU:HG	2.02	0.42
54:DV:29:PRO:O	54:DV:61:VAL:HG22	2.20	0.42
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.35	0.42
57:DY:4:LYS:HG3	57:DY:5:MET:N	2.35	0.42
58:DZ:28:MET:O	58:DZ:29:TYR:CB	2.66	0.42
58:DZ:127:LYS:HG3	58:DZ:162:GLU:HG3	2.02	0.42
1:AA:66:G:C2	1:AA:104:G:H1'	2.55	0.42
1:AA:166:G:H2'	1:AA:167:G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:242:C:C2'	1:AA:243:A:H5'	2.48	0.42
1:AA:355:C:N4	1:AA:356:A:H62	2.18	0.42
1:AA:452:A:C6	1:AA:453:A:C6	3.07	0.42
1:AA:582:U:H2'	1:AA:583:A:H8	1.85	0.42
1:AA:585:G:O2'	1:AA:879:C:H5''	2.20	0.42
1:AA:642:A:H2'	1:AA:643:C:H6	1.80	0.42
1:AA:932:C:H2'	1:AA:933:G:H8	1.85	0.42
1:AA:963:G:O2'	1:AA:1199:U:H5''	2.19	0.42
1:AA:1179:A:H5'	9:AI:102:LEU:HD22	2.01	0.42
1:AA:1211:U:H5'	1:AA:1212:U:OP1	2.20	0.42
1:AA:1258:G:O2'	1:AA:1259:C:C5'	2.65	0.42
1:AA:1311:G:C6	1:AA:1312:G:N7	2.87	0.42
1:AA:1356:G:O2'	1:AA:1357:A:C5'	2.67	0.42
1:AA:1368:G:OP1	10:AJ:62:HIS:HE1	2.03	0.42
1:AA:1368:G:HO2'	1:AA:1369:C:H5'	1.82	0.42
1:AA:1379:G:H2'	1:AA:1380:U:H6	1.84	0.42
2:AB:22:LYS:CE	2:AB:40:HIS:HE1	2.33	0.42
2:AB:171:ALA:HA	2:AB:174:VAL:HB	2.02	0.42
2:AB:223:ILE:O	2:AB:226:ARG:CB	2.67	0.42
4:AD:114:ARG:NH1	4:AD:114:ARG:CG	2.83	0.42
5:AE:11:ILE:CG2	5:AE:105:VAL:HG22	2.50	0.42
5:AE:150:ARG:NH1	5:AE:150:ARG:CB	2.72	0.42
7:AG:24:THR:O	7:AG:28:ASN:ND2	2.53	0.42
7:AG:105:VAL:O	7:AG:107:ALA:N	2.53	0.42
8:AH:97:VAL:CG1	8:AH:98:LYS:N	2.83	0.42
8:AH:100:ILE:HG23	8:AH:101:PRO:CD	2.49	0.42
9:AI:94:ALA:O	9:AI:95:LYS:HB3	2.20	0.42
9:AI:99:LEU:N	9:AI:99:LEU:CD2	2.82	0.42
13:AM:51:ALA:O	13:AM:55:ARG:N	2.40	0.42
18:AR:78:LEU:HD23	18:AR:78:LEU:HA	1.72	0.42
24:AY:29:C:N4	24:AY:41:G:H1	2.13	0.42
24:AY:53:G:N1	24:AY:62:U:C4	2.88	0.42
25:AZ:71:GLU:HB2	25:AZ:75:ARG:O	2.20	0.42
25:AZ:99:MET:H	25:AZ:241:ARG:HH22	1.67	0.42
25:AZ:363:MET:HB3	25:AZ:364:PRO:HD2	2.01	0.42
28:B2:50:ILE:N	28:B2:50:ILE:CD1	2.82	0.42
32:B6:15:GLU:OE2	32:B6:18:ARG:NH2	2.53	0.42
32:B6:23:THR:HG21	36:BA:2419:U:H4'	2.02	0.42
35:B9:9:ARG:NH2	35:B9:12:ASP:O	2.53	0.42
36:BA:265:A:C1'	36:BA:266:G:O4'	2.66	0.42
36:BA:320:A:O2'	36:BA:321:G:H3'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:428:A:C2	36:BA:429:A:C4	3.08	0.42
36:BA:476:G:H2'	36:BA:478:A:OP2	2.20	0.42
36:BA:487:C:O4'	55:BW:56:ALA:HB3	2.19	0.42
36:BA:604:G:O2'	36:BA:605:C:H5'	2.19	0.42
36:BA:954:G:O3'	49:BQ:13:GLN:HG2	2.20	0.42
36:BA:1030:G:C6	36:BA:1125:G:N2	2.88	0.42
36:BA:1601:G:H2'	36:BA:1602:U:H5'	2.01	0.42
36:BA:1670:C:O2'	36:BA:1671:U:H5'	2.20	0.42
36:BA:1772:G:H21	36:BA:1774:C:H5''	1.85	0.42
36:BA:2083:G:H2'	36:BA:2084:C:C6	2.55	0.42
36:BA:2133:G:H3'	36:BA:2133:G:C8	2.54	0.42
36:BA:2152:G:C4	36:BA:2153:G:C8	3.08	0.42
36:BA:2280:G:C2	36:BA:2281:C:C6	3.08	0.42
36:BA:2770:G:C5'	36:BA:2771:C:OP2	2.67	0.42
36:BA:2847:U:OP1	52:BT:98:LYS:HD3	2.19	0.42
38:BC:106:GLY:O	38:BC:107:TRP:HB3	2.18	0.42
38:BC:196:LEU:C	38:BC:198:ALA:N	2.77	0.42
39:BD:63:ARG:HG2	39:BD:63:ARG:HH11	1.82	0.42
39:BD:142:VAL:HA	39:BD:194:GLY:N	2.35	0.42
39:BD:198:ASN:O	39:BD:198:ASN:CG	2.62	0.42
39:BD:268:ARG:NH1	39:BD:269:PHE:CE1	2.83	0.42
42:BG:32:PRO:O	42:BG:33:ARG:HG3	2.16	0.42
42:BG:51:ARG:HH11	42:BG:53:LEU:HD21	1.85	0.42
46:BN:33:LEU:N	46:BN:33:LEU:CD1	2.81	0.42
47:BO:8:LEU:O	47:BO:8:LEU:HD22	2.19	0.42
48:BP:96:THR:H	48:BP:99:LEU:CD2	2.32	0.42
50:BR:32:GLY:O	50:BR:115:GLU:HA	2.20	0.42
50:BR:63:ARG:NH1	50:BR:80:PHE:CD2	2.88	0.42
53:BU:57:PHE:O	53:BU:59:ARG:N	2.53	0.42
55:BW:88:ARG:HD2	55:BW:88:ARG:HA	1.88	0.42
57:BY:67:LEU:HD23	57:BY:68:HIS:N	2.34	0.42
58:BZ:14:LYS:HB2	58:BZ:17:ALA:HB3	2.02	0.42
58:BZ:30:ASN:ND2	58:BZ:32:HIS:HB2	2.35	0.42
58:BZ:45:ASP:O	58:BZ:46:LYS:C	2.63	0.42
1:CA:346:G:N3	1:CA:346:G:C2'	2.83	0.42
1:CA:586:C:O3'	8:CH:89:PRO:HB2	2.19	0.42
1:CA:1001:A:N3	1:CA:1001(A):G:O6	2.52	0.42
1:CA:1139:G:H5'	1:CA:1140:C:OP1	2.20	0.42
1:CA:1217:C:OP1	14:CN:9:LYS:HE3	2.20	0.42
1:CA:1433:A:C5	1:CA:1434:A:C5	3.08	0.42
2:CB:10:LEU:HD23	2:CB:10:LEU:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:42:ILE:CD1	2:CB:202:PRO:C	2.93	0.42
3:CC:18:TRP:NE1	14:CN:55:GLY:H	2.17	0.42
3:CC:83:ARG:HG3	3:CC:87:LEU:HD11	2.02	0.42
4:CD:13:ARG:HB3	4:CD:38:TYR:O	2.20	0.42
4:CD:56:VAL:HG12	4:CD:202:LEU:HD13	2.02	0.42
7:CG:87:VAL:HG21	7:CG:154:TYR:HB2	2.02	0.42
7:CG:95:ARG:C	7:CG:97:GLN:N	2.78	0.42
7:CG:112:PRO:HG2	7:CG:112:PRO:O	2.20	0.42
7:CG:150:ALA:HB2	11:CK:50:TYR:CE2	2.54	0.42
8:CH:85:ARG:CZ	8:CH:87:SER:O	2.68	0.42
8:CH:103:VAL:CG1	8:CH:108:GLY:HA3	2.50	0.42
10:CJ:47:PHE:CZ	14:CN:37:PHE:CE2	3.05	0.42
11:CK:12:ARG:HE	11:CK:14:VAL:HG13	1.84	0.42
15:CO:64:ARG:HG3	15:CO:64:ARG:NH1	2.32	0.42
16:CP:27:LYS:O	16:CP:30:GLY:N	2.43	0.42
16:CP:35:LYS:HE2	16:CP:37:GLY:N	2.35	0.42
16:CP:50:LYS:O	16:CP:51:VAL:CG2	2.68	0.42
19:CS:45:VAL:C	19:CS:47:HIS:N	2.78	0.42
19:CS:61:TYR:HD2	19:CS:62:ILE:H	1.67	0.42
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.20	0.42
20:CT:64:ASP:O	20:CT:67:ALA:N	2.53	0.42
25:CZ:126:VAL:HG22	63:CZ:502:KIR:H471	2.02	0.42
25:CZ:173:GLY:O	25:CZ:174:SER:C	2.63	0.42
25:CZ:389:ARG:NH2	25:CZ:392:GLY:C	2.78	0.42
32:D6:33:LYS:HA	32:D6:33:LYS:HE2	2.01	0.42
34:D8:7:HIS:O	34:D8:9:GLY:N	2.51	0.42
35:D9:7:VAL:HG13	35:D9:34:GLN:HG2	2.00	0.42
36:DA:338:G:O2'	36:DA:339:U:H5'	2.19	0.42
36:DA:483:A:H8	36:DA:483:A:O5'	2.03	0.42
36:DA:529:A:H4'	36:DA:530:G:O5'	2.20	0.42
36:DA:530:G:C6	36:DA:2022:U:H5''	2.55	0.42
36:DA:539:G:H2'	36:DA:540:C:H6	1.83	0.42
36:DA:606:U:H5'	36:DA:658:C:H1'	2.02	0.42
36:DA:723:G:C6	36:DA:724:U:C4	3.08	0.42
36:DA:952:G:C4	36:DA:966:G:N2	2.87	0.42
36:DA:1033:U:H5''	36:DA:1034:G:OP1	2.19	0.42
36:DA:1047:G:H21	36:DA:1110:G:H2'	1.78	0.42
36:DA:1249:U:H2'	36:DA:1250:G:C8	2.55	0.42
36:DA:1316:U:H5'	36:DA:1392:A:H1'	2.02	0.42
36:DA:1403:C:H5''	36:DA:1471:A:O4'	2.20	0.42
36:DA:1407:C:H3'	36:DA:1408:C:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1517:G:H8	36:DA:1517:G:H5'	1.84	0.42
36:DA:1528:A:HO2'	36:DA:1528(A):A:P	2.42	0.42
36:DA:1541:G:C1'	36:DA:1542:A:C4	2.94	0.42
36:DA:1638:C:H5''	36:DA:2710:C:H1'	2.02	0.42
36:DA:1654:A:P	50:DR:3:HIS:HB2	2.59	0.42
36:DA:1672:C:C4	36:DA:1673:U:C5	3.07	0.42
36:DA:1754:C:N3	36:DA:2716:U:O2'	2.43	0.42
36:DA:1940:U:C4	36:DA:1964:G:H4'	2.55	0.42
36:DA:2101:G:C6	36:DA:2102:U:C5	3.08	0.42
36:DA:2123:G:N1	36:DA:2175:C:N3	2.67	0.42
36:DA:2197:U:O2'	36:DA:2198:A:H2'	2.19	0.42
36:DA:2257:U:C4	36:DA:2258:C:N4	2.88	0.42
36:DA:2640:G:H8	36:DA:2640:G:O5'	2.03	0.42
36:DA:2787:C:O2	36:DA:2787:C:C2'	2.67	0.42
36:DA:2850:A:OP2	36:DA:2866:U:O4	2.38	0.42
38:DC:6:ARG:NH1	38:DC:34:THR:HG21	2.34	0.42
38:DC:70:LYS:NZ	38:DC:177:LYS:HZ3	2.18	0.42
38:DC:148:ASN:O	38:DC:151:GLU:N	2.51	0.42
38:DC:183:GLU:O	38:DC:187:ASP:HB2	2.19	0.42
39:DD:158:ALA:O	39:DD:161:THR:HG23	2.20	0.42
39:DD:267:SER:O	39:DD:268:ARG:HB2	2.19	0.42
40:DE:24:THR:HB	40:DE:184:VAL:HG23	2.02	0.42
40:DE:167:VAL:CG1	40:DE:170:LEU:HD11	2.29	0.42
41:DF:155:LEU:CD1	41:DF:176:LEU:HD22	2.47	0.42
42:DG:16:ARG:C	42:DG:18:GLU:N	2.78	0.42
42:DG:16:ARG:HH21	42:DG:33:ARG:HB3	1.84	0.42
43:DH:37:VAL:CG2	43:DH:72:ILE:HD11	2.50	0.42
43:DH:130:ARG:CZ	43:DH:130:ARG:CB	2.97	0.42
43:DH:159:GLU:O	43:DH:160:LYS:C	2.62	0.42
47:DO:50:GLY:O	47:DO:53:LYS:NZ	2.42	0.42
52:DT:19:LEU:CD1	52:DT:78:LEU:HD22	2.46	0.42
52:DT:28:VAL:O	52:DT:29:ARG:HB2	2.19	0.42
53:DU:17:ILE:HD12	53:DU:17:ILE:N	2.35	0.42
58:DZ:3:TYR:N	58:DZ:3:TYR:CD1	2.88	0.42
58:DZ:165:VAL:CG1	58:DZ:166:SER:H	2.26	0.42
1:AA:116:A:O2'	1:AA:117:G:H5'	2.20	0.42
1:AA:127:G:H2'	1:AA:128:G:C8	2.55	0.42
1:AA:520:A:OP2	12:AL:51:ALA:HB1	2.20	0.42
1:AA:885:G:C2	1:AA:886:G:C8	3.07	0.42
1:AA:921:U:H2'	1:AA:922:G:O4'	2.19	0.42
1:AA:1237:C:O4'	1:AA:1334:G:N2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.20	0.42
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.19	0.42
2:AB:17:PHE:HD1	2:AB:44:LEU:HD21	1.84	0.42
2:AB:25:ASN:O	2:AB:26:PRO:C	2.62	0.42
2:AB:82:ARG:O	2:AB:83:MET:C	2.62	0.42
2:AB:157:ARG:HB2	2:AB:157:ARG:NH1	2.35	0.42
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.44	0.42
2:AB:168:THR:HG23	2:AB:192:SER:HA	2.01	0.42
3:AC:122:GLU:C	3:AC:124:ILE:H	2.27	0.42
4:AD:190:ASP:O	4:AD:191:ARG:C	2.63	0.42
6:AF:10:LEU:O	6:AF:12:PRO:N	2.53	0.42
7:AG:35:LYS:O	7:AG:37:ASN:N	2.53	0.42
7:AG:104:LEU:CD2	7:AG:104:LEU:H	2.33	0.42
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	2.19	0.42
13:AM:56:LEU:HD13	13:AM:57:ARG:N	2.35	0.42
14:AN:22:THR:HB	14:AN:33:VAL:CG2	2.34	0.42
14:AN:40:CYS:C	14:AN:42:ILE:N	2.76	0.42
14:AN:47:LEU:HD23	14:AN:47:LEU:HA	1.80	0.42
17:AQ:64:PRO:HA	17:AQ:70:ARG:HG3	2.01	0.42
18:AR:53:ARG:HG3	18:AR:63:GLN:CG	2.50	0.42
18:AR:53:ARG:N	18:AR:63:GLN:NE2	2.68	0.42
19:AS:5:LEU:C	19:AS:5:LEU:HD13	2.45	0.42
22:AW:76:A:C2	36:BA:2422:A:C6	3.07	0.42
25:AZ:185:ASN:HA	25:AZ:186:PRO:HD2	1.93	0.42
26:B0:10:THR:CG2	26:B0:11:ARG:N	2.83	0.42
28:B2:22:GLU:HG2	28:B2:64:LEU:HD21	2.02	0.42
28:B2:54:LYS:NZ	36:BA:60:G:H5''	2.35	0.42
28:B2:55:ARG:C	28:B2:57:ILE:N	2.77	0.42
28:B2:68:ARG:HH22	28:B2:72:ALA:CB	2.31	0.42
30:B4:31:ILE:HG22	30:B4:31:ILE:O	2.20	0.42
30:B4:46:GLN:CG	30:B4:47:GLN:H	2.32	0.42
31:B5:6:VAL:H	36:BA:2056:G:H21	1.66	0.42
31:B5:57:VAL:O	31:B5:58:LEU:HD12	2.20	0.42
32:B6:19:ARG:CG	32:B6:20:ASN:N	2.69	0.42
34:B8:4:MET:CE	34:B8:61:LEU:CD2	2.97	0.42
36:BA:16:G:O2'	36:BA:17:G:H5'	2.20	0.42
36:BA:106:C:O4'	57:BY:2:ARG:HG3	2.20	0.42
36:BA:217:G:H2'	36:BA:218:A:C8	2.54	0.42
36:BA:327:G:C2	36:BA:328:U:C2	3.08	0.42
36:BA:445:C:O2'	36:BA:446:G:O4'	2.36	0.42
36:BA:539:G:O2'	36:BA:540:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:669:G:H5''	36:BA:670:A:OP2	2.19	0.42
36:BA:705:A:H1'	39:BD:9:TYR:CE1	2.55	0.42
36:BA:754:C:H2'	36:BA:755:C:C5	2.54	0.42
36:BA:805:G:H21	36:BA:829:A:P	2.43	0.42
36:BA:909:A:O2'	36:BA:910:A:H5'	2.19	0.42
36:BA:1065:U:H4'	36:BA:1065:U:OP1	2.20	0.42
36:BA:1253:A:O2'	36:BA:1254:A:H5'	2.20	0.42
36:BA:2055:C:H2'	36:BA:2504:U:C4'	2.50	0.42
36:BA:2292:C:N4	36:BA:2340:G:H1	2.17	0.42
36:BA:2414:G:C2	36:BA:2415:G:N7	2.87	0.42
36:BA:2453:A:C2	36:BA:2504:U:O2	2.73	0.42
36:BA:2567:G:H2'	36:BA:2568:C:H6	1.84	0.42
36:BA:2640:G:H8	36:BA:2640:G:O5'	2.03	0.42
36:BA:2768:C:H5''	46:BN:83:LYS:HE3	2.02	0.42
37:BB:17:C:O2'	37:BB:18:G:H5'	2.19	0.42
38:BC:115:ALA:O	38:BC:149:ILE:HD13	2.20	0.42
38:BC:115:ALA:O	38:BC:116:THR:HG23	2.19	0.42
40:BE:167:VAL:HG12	40:BE:189:PRO:HD2	2.00	0.42
40:BE:201:THR:OG1	40:BE:202:LYS:N	2.53	0.42
41:BF:10:PRO:HD2	41:BF:13:SER:O	2.19	0.42
41:BF:40:GLN:NE2	41:BF:184:TYR:CB	2.83	0.42
41:BF:139:PHE:CZ	41:BF:143:ALA:HB2	2.55	0.42
42:BG:42:GLY:C	42:BG:43:LEU:HD22	2.45	0.42
42:BG:91:ARG:HD2	42:BG:91:ARG:O	2.18	0.42
43:BH:105:LEU:HD23	43:BH:105:LEU:N	2.32	0.42
43:BH:149:ARG:O	43:BH:149:ARG:HG2	2.19	0.42
43:BH:164:TYR:HB3	43:BH:165:ALA:H	1.54	0.42
46:BN:54:VAL:O	46:BN:122:VAL:HG13	2.20	0.42
47:BO:104:ARG:HH21	52:BT:33:LYS:HE3	1.84	0.42
47:BO:104:ARG:C	47:BO:106:LEU:N	2.75	0.42
48:BP:50:ARG:HG3	48:BP:51:PHE:CD1	2.55	0.42
48:BP:71:VAL:HG13	48:BP:72:PRO:CD	2.50	0.42
48:BP:135:LEU:HD13	48:BP:135:LEU:C	2.45	0.42
49:BQ:24:GLY:O	49:BQ:26:TYR:O	2.38	0.42
50:BR:18:LEU:O	50:BR:18:LEU:HD22	2.20	0.42
52:BT:88:ILE:HG22	52:BT:89:VAL:CG2	2.43	0.42
53:BU:10:ARG:HA	53:BU:13:LYS:CG	2.48	0.42
53:BU:35:ALA:O	53:BU:36:ARG:C	2.63	0.42
56:BX:49:VAL:HB	56:BX:50:LYS:H	1.63	0.42
57:BY:8:LYS:CE	57:BY:72:VAL:HG23	2.50	0.42
58:BZ:3:TYR:CD1	58:BZ:3:TYR:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BZ:65:GLN:H	58:BZ:65:GLN:HG3	1.73	0.42
1:CA:72:C:O2'	1:CA:73:G:H5'	2.20	0.42
1:CA:137:C:O2	1:CA:137:C:C2'	2.66	0.42
1:CA:614:A:O2'	1:CA:615:C:C5'	2.63	0.42
1:CA:689:C:C2'	1:CA:690:G:H5'	2.49	0.42
1:CA:933:G:C6	1:CA:1385:G:N1	2.88	0.42
1:CA:1054:C:C2'	1:CA:1055:A:H5''	2.49	0.42
1:CA:1065:U:O4	1:CA:1189:C:H2'	2.20	0.42
1:CA:1073:U:O2'	2:CB:104:ASN:ND2	2.53	0.42
1:CA:1165:C:H42	1:CA:1172:C:N4	2.18	0.42
1:CA:1223:C:H3'	1:CA:1224:G:C5'	2.50	0.42
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.20	0.42
2:CB:57:PHE:CZ	2:CB:199:TYR:HE1	2.38	0.42
2:CB:165:VAL:O	2:CB:187:LEU:O	2.37	0.42
2:CB:217:ARG:HA	2:CB:220:ASP:OD2	2.19	0.42
3:CC:63:ASN:O	3:CC:64:VAL:CG2	2.68	0.42
3:CC:76:VAL:C	3:CC:83:ARG:HG2	2.45	0.42
3:CC:139:GLN:O	3:CC:140:ARG:C	2.61	0.42
4:CD:19:LEU:HD23	4:CD:67:ILE:HG13	2.02	0.42
4:CD:138:TYR:CE2	4:CD:139:ARG:O	2.72	0.42
5:CE:38:GLN:OE1	5:CE:38:GLN:HA	2.20	0.42
10:CJ:12:ASP:OD1	10:CJ:15:THR:HG23	2.20	0.42
13:CM:55:ARG:HA	13:CM:58:GLU:CG	2.49	0.42
16:CP:11:SER:HB2	16:CP:14:ASN:HB3	2.02	0.42
16:CP:41:PRO:C	16:CP:43:LYS:N	2.78	0.42
17:CQ:66:SER:C	17:CQ:67:LYS:O	2.55	0.42
19:CS:5:LEU:C	19:CS:5:LEU:HD13	2.45	0.42
19:CS:43:GLU:O	19:CS:45:VAL:N	2.52	0.42
20:CT:50:GLU:CG	20:CT:100:ILE:HG12	2.42	0.42
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.35	0.42
26:D0:43:THR:HG21	36:DA:2332:U:H5'	2.01	0.42
27:D1:3:LYS:HD3	36:DA:1364:G:C8	2.55	0.42
28:D2:31:GLU:C	28:D2:33:MET:N	2.71	0.42
28:D2:47:ASN:C	28:D2:50:ILE:HD13	2.44	0.42
32:D6:53:LYS:O	32:D6:54:ILE:HG22	2.20	0.42
34:D8:28:GLY:C	34:D8:30:ARG:N	2.74	0.42
35:D9:9:ARG:NH2	35:D9:12:ASP:O	2.53	0.42
36:DA:226:G:O2'	36:DA:227:A:C8	2.66	0.42
36:DA:271(J):C:O2	36:DA:271(J):C:C2'	2.68	0.42
36:DA:271(S):G:C2	36:DA:271(T):C:C2	3.07	0.42
36:DA:329:G:H22	57:DY:19:LYS:CE	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:460:A:H3'	36:DA:461:C:C6	2.55	0.42
36:DA:910:A:H2'	36:DA:911:A:C8	2.53	0.42
36:DA:996:A:O4'	53:DU:92:ARG:NE	2.53	0.42
36:DA:1098:A:H2'	36:DA:1099:G:O4'	2.20	0.42
36:DA:1372:U:O2'	36:DA:1373:A:H5'	2.19	0.42
36:DA:1389:G:C5'	36:DA:1526:G:OP1	2.68	0.42
36:DA:1492:G:N3	36:DA:1499:C:O2	2.52	0.42
36:DA:1579:A:H2'	36:DA:1580:A:N9	2.35	0.42
36:DA:1790:C:H2'	36:DA:1791:A:C8	2.55	0.42
36:DA:2414:G:N3	36:DA:2414:G:H2'	2.34	0.42
36:DA:2465:C:O2'	36:DA:2466:C:H5'	2.20	0.42
36:DA:2585:U:O2	36:DA:2585:U:O4'	2.36	0.42
36:DA:2628:C:H1'	36:DA:2781:A:H2'	2.02	0.42
36:DA:2842:G:C6	36:DA:2876:G:N1	2.88	0.42
37:DB:14:U:O2'	37:DB:15:A:OP1	2.35	0.42
37:DB:73:A:C6	37:DB:74:U:C2	3.08	0.42
37:DB:102:A:H2'	37:DB:103:G:O4'	2.20	0.42
39:DD:187:GLY:C	39:DD:189:CYS:N	2.77	0.42
40:DE:11:MET:CB	40:DE:23:VAL:O	2.67	0.42
40:DE:52:LEU:HB3	40:DE:76:ARG:N	2.34	0.42
40:DE:144:ARG:O	40:DE:146:THR:N	2.53	0.42
41:DF:107:LYS:O	41:DF:108:LYS:C	2.63	0.42
41:DF:168:ARG:CG	41:DF:169:ASN:N	2.83	0.42
42:DG:59:GLU:C	42:DG:61:ALA:N	2.78	0.42
46:DN:10:GLU:HG3	46:DN:11:PRO:CD	2.40	0.42
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	2.01	0.42
49:DQ:5:ARG:HE	49:DQ:5:ARG:HB2	1.61	0.42
49:DQ:52:VAL:HG12	49:DQ:53:ALA:N	2.35	0.42
49:DQ:110:THR:OG1	49:DQ:112:GLU:HB3	2.20	0.42
49:DQ:141:GLN:O	58:DZ:53:ILE:CB	2.67	0.42
50:DR:83:ILE:CG2	50:DR:87:TYR:HE2	2.32	0.42
52:DT:117:ASP:OD1	52:DT:119:LYS:HB3	2.20	0.42
53:DU:15:LYS:C	53:DU:17:ILE:H	2.28	0.42
53:DU:109:LEU:HA	53:DU:112:ARG:HB2	2.02	0.42
54:DV:19:LYS:HZ3	54:DV:20:LEU:N	2.17	0.42
54:DV:21:ARG:HB3	54:DV:91:TYR:CD1	2.55	0.42
54:DV:35:LEU:C	54:DV:37:VAL:N	2.75	0.42
56:DX:8:ILE:HD11	56:DX:43:VAL:CG2	2.47	0.42
56:DX:11:PRO:HG2	56:DX:13:LEU:HD21	2.01	0.42
58:DZ:27:VAL:O	58:DZ:88:PHE:N	2.51	0.42
58:DZ:108:PRO:HG2	58:DZ:111:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DZ:150:LEU:N	58:DZ:150:LEU:CD2	2.83	0.42
1:AA:220:G:H2'	1:AA:220:G:N3	2.35	0.41
1:AA:247:G:C6	1:AA:278:G:C2	3.08	0.41
1:AA:314:C:H42	1:AA:315:A:N6	2.18	0.41
1:AA:398:C:H2'	1:AA:399:G:H8	1.85	0.41
1:AA:849:C:O2'	1:AA:850:U:H5'	2.20	0.41
1:AA:922:G:H3'	1:AA:923:A:C8	2.55	0.41
1:AA:949:A:N7	1:AA:950:U:C5	2.88	0.41
1:AA:1064:G:H21	1:AA:1190:G:C2'	2.33	0.41
1:AA:1065:U:O5'	1:AA:1190:G:N2	2.52	0.41
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.35	0.41
1:AA:1338:G:C6	1:AA:1339:A:N6	2.88	0.41
2:AB:62:ALA:C	2:AB:64:ARG:N	2.78	0.41
3:AC:87:LEU:O	3:AC:88:ARG:C	2.63	0.41
3:AC:139:GLN:O	3:AC:140:ARG:C	2.63	0.41
3:AC:181:ASN:HD21	3:AC:204:LEU:CD1	2.30	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:HA	2.01	0.41
4:AD:138:TYR:CD2	4:AD:139:ARG:N	2.85	0.41
4:AD:206:PHE:O	4:AD:206:PHE:CG	2.72	0.41
7:AG:22:LEU:HD22	7:AG:62:PHE:HE2	1.85	0.41
7:AG:153:HIS:CE1	11:AK:58:PRO:HD2	2.54	0.41
8:AH:4:ASP:OD2	8:AH:85:ARG:HD3	2.19	0.41
10:AJ:21:GLN:C	10:AJ:23:ILE:N	2.76	0.41
15:AO:34:LEU:HG	15:AO:35:ARG:N	2.35	0.41
15:AO:58:MET:O	15:AO:62:GLN:HB2	2.20	0.41
18:AR:53:ARG:C	18:AR:55:ARG:N	2.64	0.41
19:AS:70:LYS:O	19:AS:71:LEU:C	2.62	0.41
22:AV:5:G:H2'	22:AV:6:G:O4'	2.19	0.41
25:AZ:115:GLN:HE21	25:AZ:115:GLN:HA	1.85	0.41
25:AZ:389:ARG:NH2	25:AZ:392:GLY:C	2.78	0.41
26:B0:63:VAL:O	26:B0:63:VAL:HG23	2.18	0.41
27:B1:34:THR:CG2	27:B1:35:THR:N	2.82	0.41
30:B4:14:ILE:N	30:B4:14:ILE:CD1	2.81	0.41
30:B4:33:VAL:HG13	30:B4:34:GLU:N	2.36	0.41
34:B8:28:GLY:C	34:B8:30:ARG:N	2.76	0.41
35:B9:29:ASN:C	35:B9:29:ASN:HD22	2.21	0.41
36:BA:321:G:OP2	41:BF:135:LYS:HA	2.20	0.41
36:BA:486:C:O2'	55:BW:56:ALA:HB1	2.20	0.41
36:BA:491:G:H2'	36:BA:492:A:O4'	2.20	0.41
36:BA:572:A:H3'	36:BA:573:G:O4'	2.20	0.41
36:BA:672:C:O2'	36:BA:673:C:H5''	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:753:C:H2'	36:BA:754:C:H6	1.84	0.41
36:BA:861:A:H2	37:BB:79:C:H1'	1.85	0.41
36:BA:1259:G:H2'	36:BA:1260:G:C8	2.53	0.41
36:BA:1271:G:N2	36:BA:1617:C:O4'	2.52	0.41
36:BA:1346:G:C2	36:BA:1601:G:C2	3.08	0.41
36:BA:1487:G:C4	36:BA:1488:G:C8	3.08	0.41
36:BA:1528:A:HO2'	36:BA:1528(A):A:C5'	2.33	0.41
36:BA:1560:G:N3	36:BA:1560:G:H2'	2.35	0.41
36:BA:1653:G:O2'	50:BR:3:HIS:CB	2.68	0.41
36:BA:1747(A):G:H2'	36:BA:1748:G:C5'	2.48	0.41
36:BA:1805:U:H5''	39:BD:250:TRP:CE2	2.54	0.41
36:BA:1813:G:H1'	39:BD:50:THR:OG1	2.20	0.41
36:BA:1815:A:H8	36:BA:1815:A:OP1	2.02	0.41
36:BA:2071:A:H2	36:BA:2441:C:C2	2.38	0.41
36:BA:2161:C:O2'	36:BA:2162:G:H5'	2.20	0.41
36:BA:2530:A:C2'	36:BA:2531:A:H5''	2.49	0.41
36:BA:2683:C:H42	36:BA:2727:G:H21	1.67	0.41
36:BA:2683:C:H42	36:BA:2727:G:N2	2.18	0.41
36:BA:2695:C:H2'	36:BA:2696:U:C6	2.55	0.41
36:BA:2773:C:H5''	40:BE:164:ARG:CD	2.49	0.41
37:BB:85:G:C4	37:BB:93:G:C2	3.08	0.41
38:BC:21:THR:N	38:BC:24:GLU:HB2	2.35	0.41
39:BD:89:SER:HB2	39:BD:159:ALA:HB2	2.01	0.41
39:BD:227:ASN:O	39:BD:230:ASP:N	2.53	0.41
39:BD:242:ARG:HD2	39:BD:242:ARG:N	2.34	0.41
39:BD:244:ARG:HG2	39:BD:245:PRO:CB	2.50	0.41
39:BD:264:LYS:O	39:BD:267:SER:OG	2.36	0.41
39:BD:270:ILE:H	39:BD:270:ILE:HG13	1.74	0.41
40:BE:93:VAL:CG1	40:BE:175:VAL:HG23	2.49	0.41
40:BE:175:VAL:O	40:BE:175:VAL:HG13	2.20	0.41
40:BE:181:LEU:N	40:BE:181:LEU:CD1	2.82	0.41
42:BG:173:LEU:O	42:BG:174:GLU:C	2.63	0.41
43:BH:40:GLU:O	43:BH:41:MET:CB	2.67	0.41
46:BN:40:PRO:HD3	53:BU:67:ALA:C	2.45	0.41
47:BO:90:GLN:O	47:BO:92:GLU:N	2.52	0.41
50:BR:3:HIS:HB3	50:BR:4:LEU:H	1.56	0.41
50:BR:39:PRO:O	50:BR:40:LYS:C	2.63	0.41
50:BR:94:TYR:CD2	50:BR:94:TYR:N	2.85	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:H	2.02	0.41
52:BT:11:GLU:CD	52:BT:11:GLU:N	2.74	0.41
52:BT:131:ALA:C	52:BT:133:GLU:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:71:LEU:CD2	54:BV:84:LYS:HE2	2.50	0.41
57:BY:56:PRO:O	57:BY:57:GLN:O	2.38	0.41
58:BZ:39:VAL:HG23	58:BZ:44:PHE:HB2	2.02	0.41
58:BZ:47:VAL:O	58:BZ:48:PHE:C	2.63	0.41
1:CA:163:C:H2'	1:CA:164:U:O4'	2.19	0.41
1:CA:189(G):G:H8	1:CA:189(G):G:OP1	2.02	0.41
1:CA:316:G:N1	1:CA:338:A:C6	2.88	0.41
1:CA:556:C:C2'	1:CA:557:G:H5'	2.49	0.41
1:CA:682:G:N1	1:CA:683:G:C5	2.88	0.41
1:CA:684:A:H2'	1:CA:685:G:C8	2.54	0.41
1:CA:690:G:O2'	1:CA:691:G:H5'	2.20	0.41
1:CA:782:A:C2'	1:CA:783:C:H5'	2.50	0.41
1:CA:830:G:H2'	1:CA:831:U:O4'	2.20	0.41
1:CA:859:A:O2'	1:CA:860:A:H5'	2.20	0.41
1:CA:922:G:H3'	1:CA:923:A:C8	2.55	0.41
1:CA:1280:A:O2'	1:CA:1281:U:P	2.78	0.41
1:CA:1285:A:O2'	1:CA:1286:A:OP2	2.36	0.41
1:CA:1314:C:H41	19:CS:4:SER:HB2	1.85	0.41
1:CA:1392:G:N2	1:CA:1502:A:C8	2.88	0.41
1:CA:1484:C:O2'	36:DA:1961:C:H5'	2.20	0.41
3:CC:110:ASN:O	3:CC:141:VAL:HG22	2.19	0.41
4:CD:109:GLY:HA3	4:CD:165:MET:HE2	2.01	0.41
5:CE:127:ASN:HA	5:CE:128:PRO:HD3	1.79	0.41
7:CG:136:LYS:O	7:CG:137:LYS:C	2.61	0.41
8:CH:92:ARG:CB	8:CH:94:TYR:HE1	2.33	0.41
9:CI:42:ARG:O	9:CI:45:ALA:HB3	2.19	0.41
9:CI:99:LEU:N	9:CI:99:LEU:CD2	2.83	0.41
9:CI:114:TYR:C	9:CI:114:TYR:CD2	2.98	0.41
13:CM:113:PRO:O	13:CM:114:ARG:C	2.62	0.41
17:CQ:29:HIS:CE1	17:CQ:32:TYR:N	2.88	0.41
18:CR:43:PHE:CD1	18:CR:66:LEU:HD11	2.55	0.41
19:CS:13:ASP:C	19:CS:15:LEU:N	2.78	0.41
22:CW:2:C:H42	22:CW:72:C:H42	1.66	0.41
22:CW:55:U:O2'	22:CW:56:C:C6	2.70	0.41
28:D2:12:GLU:O	28:D2:16:LEU:HG	2.19	0.41
32:D6:14:THR:O	32:D6:49:HIS:CG	2.73	0.41
33:D7:12:ARG:HH21	33:D7:44:PRO:CB	2.29	0.41
36:DA:228:A:OP1	48:DP:76:LYS:NZ	2.45	0.41
36:DA:296:C:N4	36:DA:343:C:N4	2.67	0.41
36:DA:426:C:O2	36:DA:426:C:H2'	2.19	0.41
36:DA:999:U:O2	36:DA:1157:G:N2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1062:G:N1	36:DA:1063:G:H1'	2.34	0.41
36:DA:1093:G:H4'	43:DH:170:ARG:NH1	2.34	0.41
36:DA:1263:U:C4	36:DA:1264:G:C6	3.08	0.41
36:DA:1475:G:H22	36:DA:1517:G:H1'	1.84	0.41
36:DA:1717:G:H2'	36:DA:1718:G:C5'	2.50	0.41
36:DA:2134:A:C2	36:DA:2135:A:N7	2.88	0.41
36:DA:2259:G:N2	36:DA:2282:G:C2	2.88	0.41
36:DA:2512:C:O5'	36:DA:2512:C:H6	2.02	0.41
36:DA:2546:U:O4'	36:DA:2565:A:C2	2.72	0.41
36:DA:2598:A:O5'	36:DA:2598:A:H8	2.03	0.41
36:DA:2682:U:H1'	40:DE:12:THR:HA	2.02	0.41
38:DC:18:LYS:HE3	38:DC:20:TYR:CD2	2.55	0.41
39:DD:266:SER:O	39:DD:267:SER:O	2.37	0.41
40:DE:132:HIS:CD2	40:DE:135:HIS:NE2	2.88	0.41
41:DF:105:VAL:HG12	41:DF:105:VAL:O	2.20	0.41
41:DF:172:TRP:H	41:DF:172:TRP:CD1	2.38	0.41
43:DH:35:VAL:HA	43:DH:36:PRO:HD2	1.97	0.41
43:DH:61:HIS:O	43:DH:64:LEU:N	2.49	0.41
43:DH:98:LEU:HB2	43:DH:125:VAL:CG2	2.49	0.41
46:DN:90:MET:O	46:DN:93:THR:O	2.38	0.41
46:DN:107:LEU:HB3	46:DN:108:PRO:CD	2.48	0.41
47:DO:8:LEU:O	47:DO:9:GLU:O	2.38	0.41
48:DP:59:LEU:CA	48:DP:61:ARG:NE	2.65	0.41
48:DP:101:VAL:HG22	48:DP:102:ARG:N	2.35	0.41
51:DS:17:ARG:C	51:DS:19:LYS:H	2.27	0.41
51:DS:23:ARG:HB3	51:DS:24:LEU:HD22	2.02	0.41
51:DS:89:ARG:CG	51:DS:92:TYR:HB3	2.50	0.41
53:DU:34:LYS:O	53:DU:35:ALA:C	2.61	0.41
54:DV:13:ARG:HH11	54:DV:13:ARG:CG	2.33	0.41
55:DW:70:TYR:CZ	55:DW:72:LYS:HG2	2.55	0.41
56:DX:57:LEU:O	56:DX:57:LEU:HD13	2.20	0.41
57:DY:15:VAL:CG1	57:DY:20:TYR:O	2.68	0.41
58:DZ:109:ALA:CB	58:DZ:144:LEU:O	2.67	0.41
1:AA:319:G:H4'	1:AA:1468:A:C5'	2.49	0.41
1:AA:458:C:C4	1:AA:474:G:N2	2.88	0.41
1:AA:657:G:N2	1:AA:749:C:N3	2.63	0.41
1:AA:815:A:C2	1:AA:1529:G:C4	3.08	0.41
1:AA:976:G:OP1	14:AN:32:SER:N	2.54	0.41
1:AA:994:A:C2	1:AA:995:C:C5	3.08	0.41
1:AA:1005:A:H8	1:AA:1005:A:O5'	2.03	0.41
1:AA:1030(A):G:C1'	1:AA:1031:G:H22	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:H2'	1:AA:1149:C:C5'	2.51	0.41
1:AA:1291:G:OP1	7:AG:37:ASN:HB3	2.20	0.41
1:AA:1487:G:C2'	1:AA:1488:G:C5'	2.98	0.41
2:AB:219:VAL:HA	2:AB:222:ILE:CG1	2.50	0.41
3:AC:63:ASN:O	3:AC:64:VAL:CG2	2.68	0.41
3:AC:113:ALA:N	3:AC:114:PRO:CD	2.83	0.41
3:AC:140:ARG:HG3	3:AC:140:ARG:NH1	2.35	0.41
4:AD:189:PRO:CB	4:AD:194:LEU:HD21	2.38	0.41
5:AE:77:PRO:O	5:AE:78:HIS:HB3	2.20	0.41
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.83	0.41
12:AL:8:ASN:O	12:AL:12:ARG:HD3	2.20	0.41
12:AL:23:LYS:O	12:AL:24:VAL:CG2	2.68	0.41
13:AM:35:GLU:CG	13:AM:36:LYS:H	2.33	0.41
13:AM:83:ASP:OD1	19:AS:74:PHE:HE1	2.02	0.41
13:AM:86:CYS:HA	19:AS:73:GLU:C	2.45	0.41
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.35	0.41
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.41
20:AT:20:LEU:C	20:AT:23:ARG:HB3	2.45	0.41
20:AT:65:LYS:O	20:AT:68:LYS:HB2	2.20	0.41
24:AY:55:PSU:N1	24:AY:58:A:OP2	2.53	0.41
25:AZ:168:VAL:HA	25:AZ:169:PRO:HD3	1.84	0.41
25:AZ:258:LEU:HD12	25:AZ:258:LEU:N	2.35	0.41
25:AZ:385:ARG:HD3	63:AZ:502:KIR:H451	2.02	0.41
26:B0:7:LEU:HD21	49:BQ:81:VAL:CG2	2.50	0.41
34:B8:62:LEU:N	34:B8:63:PRO:HD2	2.35	0.41
35:B9:6:SER:HB2	36:BA:2466:C:H5''	2.02	0.41
35:B9:25:VAL:HB	35:B9:34:GLN:CB	2.49	0.41
36:BA:128:C:C4	36:BA:129:C:C5	3.07	0.41
36:BA:200:U:N3	36:BA:248:G:N3	2.68	0.41
36:BA:483:A:N7	36:BA:484:C:C2	2.88	0.41
36:BA:1205:U:H4'	36:BA:1206:G:OP2	2.20	0.41
36:BA:1445:A:OP2	36:BA:1445(A):C:H5	2.03	0.41
36:BA:1548:C:H2'	36:BA:1549:C:H6	1.86	0.41
36:BA:1579:A:H2'	36:BA:1580:A:N9	2.34	0.41
36:BA:1669:A:OP2	36:BA:2550:G:OP1	2.38	0.41
36:BA:1783:A:C6	36:BA:2587:A:C2	3.08	0.41
36:BA:1790:C:H2'	36:BA:1791:A:C8	2.55	0.41
36:BA:1967:C:C4	36:BA:1968:G:C5	3.09	0.41
36:BA:2234:G:O2'	36:BA:2235:G:H5'	2.19	0.41
36:BA:2285:C:H42	36:BA:2383:G:H1	1.68	0.41
36:BA:2413:G:H2'	36:BA:2414:G:C8	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2478:A:O2'	36:BA:2536:G:N2	2.52	0.41
36:BA:2740:A:H2'	36:BA:2741:A:O4'	2.20	0.41
38:BC:75:LEU:HB2	38:BC:93:TYR:HB2	2.02	0.41
39:BD:8:PRO:HB3	39:BD:14:ARG:HB3	1.98	0.41
39:BD:46:GLN:N	39:BD:46:GLN:OE1	2.53	0.41
39:BD:73:VAL:HA	39:BD:119:ALA:O	2.20	0.41
39:BD:112:GLN:N	39:BD:115:GLN:NE2	2.46	0.41
39:BD:164:GLN:HG2	39:BD:165:ILE:O	2.20	0.41
39:BD:229:VAL:HG23	39:BD:230:ASP:CG	2.45	0.41
40:BE:52:LEU:HD23	40:BE:75:VAL:HB	2.01	0.41
40:BE:82:ARG:NH1	40:BE:82:ARG:CG	2.76	0.41
41:BF:7:TYR:CD2	41:BF:16:GLY:HA3	2.54	0.41
41:BF:8:GLN:HE21	41:BF:9:ILE:HB	1.85	0.41
41:BF:137:LYS:HE3	41:BF:137:LYS:HB2	1.85	0.41
41:BF:182:ASN:OD1	41:BF:185:ASP:CB	2.68	0.41
42:BG:114:ILE:O	42:BG:115:ARG:HB2	2.20	0.41
43:BH:38:SER:HA	43:BH:39:PRO:HD3	1.78	0.41
46:BN:18:ALA:C	46:BN:20:GLY:N	2.79	0.41
46:BN:55:VAL:HG21	46:BN:127:ASP:H	1.83	0.41
49:BQ:141:GLN:OE1	58:BZ:72:ARG:CD	2.67	0.41
50:BR:79:LEU:HD22	50:BR:79:LEU:C	2.45	0.41
51:BS:70:GLY:O	51:BS:71:ARG:C	2.63	0.41
51:BS:76:LYS:O	51:BS:79:ALA:HB3	2.20	0.41
51:BS:85:VAL:CG2	51:BS:106:ARG:HB2	2.50	0.41
52:BT:3:ARG:HD2	52:BT:6:LEU:HD13	2.02	0.41
52:BT:124:ASP:CB	52:BT:125:ARG:NH1	2.83	0.41
54:BV:1:MET:O	54:BV:2:PHE:HB2	2.19	0.41
1:CA:109:A:O2'	1:CA:110:C:OP1	2.35	0.41
1:CA:189:G:N1	1:CA:189(L):G:C6	2.88	0.41
1:CA:233:C:C4	1:CA:234:C:C5	3.08	0.41
1:CA:241:C:O2'	1:CA:242:C:H5'	2.20	0.41
1:CA:390:C:C4'	16:CP:28:ARG:HH11	2.25	0.41
1:CA:397:A:H5'	1:CA:398:C:OP1	2.19	0.41
1:CA:411:A:C5	1:CA:429:U:C5	3.08	0.41
1:CA:677:U:H3	1:CA:713:G:H1	1.66	0.41
1:CA:756:C:H2'	1:CA:757:U:O4'	2.20	0.41
1:CA:815:A:C6	1:CA:1529:G:C8	3.07	0.41
1:CA:989:C:O2'	1:CA:990:C:H5'	2.20	0.41
1:CA:1011:G:O2'	1:CA:1012:U:H5'	2.20	0.41
1:CA:1012:U:O2	1:CA:1017:G:N2	2.52	0.41
2:CB:93:VAL:HG11	2:CB:97:TRP:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:223:ILE:O	2:CB:226:ARG:CB	2.68	0.41
3:CC:18:TRP:HE3	3:CC:18:TRP:H	1.67	0.41
8:CH:54:ASP:OD1	8:CH:54:ASP:N	2.54	0.41
9:CI:65:VAL:HG22	9:CI:66:ARG:H	1.84	0.41
9:CI:73:GLN:O	9:CI:76:ALA:HB3	2.20	0.41
14:CN:7:ILE:HG13	14:CN:8:GLU:HG2	2.02	0.41
18:CR:53:ARG:CG	18:CR:63:GLN:HB2	2.50	0.41
22:CV:58:A:N6	22:CV:61:C:C4	2.88	0.41
24:CY:33:U:H3'	24:CY:34:G:H5''	2.01	0.41
25:CZ:39:ASN:HA	25:CZ:40:PRO:HD2	1.94	0.41
25:CZ:315:LYS:HA	25:CZ:372:VAL:O	2.20	0.41
25:CZ:321:TYR:HE2	25:CZ:323:LEU:HD12	1.81	0.41
26:D0:60:PHE:CE2	36:DA:2365:G:H4'	2.55	0.41
26:D0:65:GLY:HA3	26:D0:82:ARG:O	2.20	0.41
28:D2:33:MET:O	28:D2:36:ARG:HG2	2.19	0.41
29:D3:40:THR:C	29:D3:42:ALA:N	2.77	0.41
32:D6:5:VAL:O	32:D6:5:VAL:HG12	2.20	0.41
32:D6:48:VAL:CG2	32:D6:49:HIS:H	2.17	0.41
34:D8:60:LEU:C	34:D8:63:PRO:HD2	2.45	0.41
36:DA:27:G:N2	36:DA:512:G:C2'	2.67	0.41
36:DA:51:G:N3	36:DA:119:A:C2	2.88	0.41
36:DA:217:G:O6	36:DA:431:U:O2	2.38	0.41
36:DA:398:G:H5''	36:DA:2090:G:O4'	2.20	0.41
36:DA:511:U:H6	36:DA:511:U:O5'	2.02	0.41
36:DA:654(S):G:H2'	36:DA:654(T):C:O4'	2.19	0.41
36:DA:765:G:C6	36:DA:766:C:C4	3.08	0.41
36:DA:840:C:H2'	36:DA:841:A:C8	2.55	0.41
36:DA:942:G:H5'	48:DP:35:HIS:O	2.20	0.41
36:DA:1290:C:H6	36:DA:1290:C:O5'	2.02	0.41
36:DA:2284:C:O2'	36:DA:2288:A:N6	2.50	0.41
36:DA:2462:U:H2'	36:DA:2463:C:C6	2.55	0.41
36:DA:2590:A:P	39:DD:238:GLY:HA2	2.60	0.41
36:DA:2690:C:H6	36:DA:2690:C:OP2	2.03	0.41
36:DA:2819:G:C5	36:DA:2821:A:C2	3.09	0.41
36:DA:2839:G:C4	36:DA:2840:C:C5	3.08	0.41
37:DB:81:G:C2'	37:DB:82:G:H5'	2.47	0.41
38:DC:120:MET:HA	38:DC:123:VAL:CG1	2.50	0.41
38:DC:159:GLY:O	38:DC:160:ARG:C	2.64	0.41
39:DD:28:GLU:N	39:DD:29:PRO:CD	2.80	0.41
39:DD:43:ARG:NH1	39:DD:49:ILE:CG2	2.83	0.41
39:DD:159:ALA:HB1	39:DD:201:HIS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DE:38:THR:CG2	40:DE:40:GLU:HB2	2.50	0.41
40:DE:51:PHE:HD1	40:DE:51:PHE:C	2.28	0.41
40:DE:121:ASN:HD22	40:DE:121:ASN:HA	1.66	0.41
40:DE:131:ALA:HB3	40:DE:134:ILE:HD11	2.01	0.41
40:DE:165:VAL:CG1	40:DE:166:THR:H	2.30	0.41
41:DF:52:LYS:HA	41:DF:56:GLU:OE2	2.20	0.41
41:DF:63:LYS:NZ	41:DF:75:HIS:O	2.45	0.41
46:DN:18:ALA:C	46:DN:20:GLY:N	2.78	0.41
47:DO:120:GLU:HB2	52:DT:68:TYR:HE2	1.84	0.41
48:DP:5:ASP:OD2	48:DP:6:LEU:HD23	2.20	0.41
50:DR:18:LEU:HD22	50:DR:18:LEU:O	2.20	0.41
51:DS:85:VAL:HG23	51:DS:106:ARG:HB2	2.02	0.41
52:DT:92:GLY:C	52:DT:94:ALA:H	2.26	0.41
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.34	0.41
56:DX:3:THR:CA	56:DX:6:ASP:OD2	2.69	0.41
56:DX:20:GLY:C	56:DX:22:ALA:N	2.78	0.41
1:AA:14:U:O2'	1:AA:16:A:N7	2.46	0.41
1:AA:146:G:N3	1:AA:146:G:H2'	2.34	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.84	0.41
1:AA:375:U:H2'	1:AA:376:G:H8	1.86	0.41
1:AA:409:G:H3'	1:AA:410:G:H8	1.84	0.41
1:AA:548:G:H2'	1:AA:549:C:O4'	2.21	0.41
1:AA:607:A:C2'	1:AA:608:A:H5'	2.49	0.41
1:AA:919:A:HO2'	1:AA:1080:A:H61	1.68	0.41
1:AA:976:G:P	14:AN:32:SER:H	2.44	0.41
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.84	0.41
1:AA:1177:G:OP2	9:AI:97:LYS:NZ	2.48	0.41
1:AA:1253:G:C2'	1:AA:1254:C:H5'	2.50	0.41
1:AA:1344:C:H2'	1:AA:1345:U:H5'	2.03	0.41
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.56	0.41
1:AA:1407:C:O2	1:AA:1407:C:C2'	2.68	0.41
1:AA:1511:G:H8	1:AA:1511:G:O5'	2.03	0.41
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.20	0.41
2:AB:79:ASP:O	2:AB:82:ARG:HB2	2.20	0.41
2:AB:233:SER:O	2:AB:235:SER:N	2.54	0.41
3:AC:86:VAL:O	3:AC:87:LEU:C	2.59	0.41
5:AE:150:ARG:HG2	5:AE:151:LEU:HD23	2.02	0.41
7:AG:107:ALA:O	7:AG:110:GLN:N	2.53	0.41
10:AJ:7:LYS:HG2	10:AJ:71:LEU:HB2	2.01	0.41
14:AN:51:GLY:C	14:AN:53:LEU:H	2.27	0.41
17:AQ:68:ARG:O	17:AQ:69:LYS:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:87:LYS:HE2	17:AQ:87:LYS:HA	2.02	0.41
19:AS:48:THR:HG23	19:AS:61:TYR:HA	2.02	0.41
20:AT:8:ARG:HG3	20:AT:8:ARG:NH1	2.33	0.41
24:AY:33:U:C3'	24:AY:34:G:H5''	2.50	0.41
25:AZ:97:ALA:O	25:AZ:241:ARG:NH2	2.53	0.41
25:AZ:243:GLU:HG2	25:AZ:345:ARG:HH21	1.84	0.41
27:B1:15:ALA:HB2	27:B1:42:GLN:HG3	2.01	0.41
28:B2:41:ILE:CG1	28:B2:42:GLY:H	1.97	0.41
32:B6:35:GLU:HB3	32:B6:51:GLU:OE1	2.20	0.41
34:B8:38:GLY:O	34:B8:39:LYS:C	2.63	0.41
36:BA:9:U:O2'	36:BA:10:G:H8	2.03	0.41
36:BA:321:G:C1'	41:BF:168:ARG:NH2	2.83	0.41
36:BA:355:G:H2'	36:BA:356:G:C8	2.56	0.41
36:BA:483:A:H8	36:BA:483:A:O5'	2.02	0.41
36:BA:518:G:C6	36:BA:519:U:C4	3.09	0.41
36:BA:564:C:OP1	54:BV:77:ALA:HB2	2.20	0.41
36:BA:654(Q):C:O2'	36:BA:654(R):C:H5'	2.21	0.41
36:BA:794:G:C6	36:BA:795:C:C4	3.08	0.41
36:BA:907:U:O2'	36:BA:908:C:H5'	2.20	0.41
36:BA:948:G:C6	36:BA:949:C:C4	3.08	0.41
36:BA:972:G:H2'	36:BA:973:A:C8	2.56	0.41
36:BA:1186:G:H8	36:BA:1186:G:O5'	2.03	0.41
36:BA:1259:G:O2'	36:BA:1260:G:C5'	2.62	0.41
36:BA:1561:G:O2'	36:BA:1562:A:H5'	2.20	0.41
36:BA:1788:C:C2	36:BA:1789:A:C8	3.08	0.41
36:BA:1823:G:C2	36:BA:1824:G:C8	3.08	0.41
36:BA:2101:G:N2	36:BA:2189:U:H3	2.16	0.41
36:BA:2137:C:H42	36:BA:2154:G:H22	1.65	0.41
36:BA:2292:C:C2	36:BA:2341:G:N2	2.89	0.41
36:BA:2582:G:N2	36:BA:2583:G:H1'	2.34	0.41
36:BA:2592:G:N7	36:BA:2593:U:C5	2.87	0.41
36:BA:2842:G:C6	36:BA:2876:G:N1	2.88	0.41
37:BB:94:C:H2'	37:BB:95:C:C6	2.55	0.41
38:BC:178:ALA:C	38:BC:180:PHE:N	2.79	0.41
39:BD:43:ARG:HB3	39:BD:54:ARG:HB3	2.02	0.41
40:BE:203:LYS:HD2	40:BE:203:LYS:O	2.21	0.41
41:BF:157:VAL:HG21	41:BF:194:MET:HG2	2.01	0.41
41:BF:182:ASN:C	41:BF:184:TYR:N	2.75	0.41
43:BH:41:MET:SD	43:BH:53:GLU:O	2.78	0.41
45:BK:34:UNK:O	45:BK:38:UNK:CB	2.68	0.41
50:BR:29:LEU:O	50:BR:30:THR:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:106:ARG:HH11	51:BS:106:ARG:CB	2.33	0.41
56:BX:35:THR:C	56:BX:37:THR:H	2.27	0.41
58:BZ:14:LYS:O	58:BZ:16:SER:N	2.53	0.41
1:CA:59:A:H3'	1:CA:60:A:H5''	2.01	0.41
1:CA:126:G:C6	1:CA:127:G:C5	3.08	0.41
1:CA:266:G:H5'	1:CA:267:C:C5	2.55	0.41
1:CA:310:G:H2'	1:CA:311:C:H6	1.85	0.41
1:CA:933:G:N2	1:CA:935:A:O4'	2.53	0.41
1:CA:954:G:H2'	1:CA:955:U:O4'	2.20	0.41
1:CA:993:G:N3	1:CA:993:G:C2'	2.77	0.41
1:CA:1307:U:H3	1:CA:1330:U:H3	1.66	0.41
1:CA:1366:C:C6	1:CA:1367:C:H5	2.38	0.41
1:CA:1413:A:C6	1:CA:1414:U:C4	3.08	0.41
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.53	0.41
1:CA:1508:G:O2'	1:CA:1509:C:H5'	2.19	0.41
2:CB:82:ARG:O	2:CB:85:ALA:HB3	2.19	0.41
2:CB:213:LEU:HD23	2:CB:213:LEU:C	2.44	0.41
3:CC:11:ARG:HE	3:CC:181:ASN:H	1.68	0.41
3:CC:87:LEU:O	3:CC:88:ARG:C	2.63	0.41
3:CC:180:ALA:O	3:CC:203:PHE:CE1	2.74	0.41
5:CE:32:VAL:HG12	5:CE:33:VAL:N	2.34	0.41
5:CE:60:TYR:O	5:CE:63:ARG:N	2.53	0.41
5:CE:110:LEU:HD23	5:CE:110:LEU:HA	1.85	0.41
6:CF:22:GLU:C	6:CF:24:GLU:N	2.75	0.41
8:CH:6:ILE:HG22	8:CH:7:ALA:N	2.35	0.41
8:CH:26:VAL:HG22	8:CH:27:PRO:O	2.20	0.41
8:CH:82:HIS:HB2	8:CH:138:TRP:CD2	2.55	0.41
9:CI:90:PRO:C	9:CI:92:TYR:N	2.78	0.41
11:CK:54:ARG:O	11:CK:55:LYS:C	2.61	0.41
12:CL:78:GLN:C	12:CL:80:HIS:H	2.27	0.41
13:CM:15:VAL:O	13:CM:16:ASP:C	2.62	0.41
13:CM:83:ASP:OD1	19:CS:74:PHE:HE1	2.02	0.41
15:CO:3:ILE:CG2	15:CO:38:ARG:NH2	2.83	0.41
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	2.00	0.41
18:CR:36:ASN:OD1	18:CR:39:VAL:HB	2.20	0.41
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	2.20	0.41
25:CZ:99:MET:H	25:CZ:241:ARG:HH22	1.67	0.41
26:D0:67:VAL:HG12	26:D0:68:GLU:H	1.85	0.41
32:D6:11:LEU:HD21	32:D6:52:VAL:N	2.29	0.41
32:D6:12:GLU:HA	32:D6:23:THR:HA	2.02	0.41
33:D7:18:PHE:CG	36:DA:126:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:D8:23:VAL:HG22	34:D8:47:LYS:O	2.20	0.41
36:DA:54:G:H8	36:DA:54:G:O5'	2.03	0.41
36:DA:66:C:H2'	36:DA:67:U:O4'	2.20	0.41
36:DA:83:G:N1	36:DA:102:G:H2'	2.35	0.41
36:DA:271(F):C:C2'	36:DA:271(G):C:H5'	2.50	0.41
36:DA:654(H):G:H2'	36:DA:654(I):C:C5'	2.51	0.41
36:DA:680:G:H2'	36:DA:681:G:C8	2.55	0.41
36:DA:705:A:H2'	36:DA:706:A:C8	2.55	0.41
36:DA:862:G:H21	37:DB:100:A:H2	1.69	0.41
36:DA:1203:G:O2'	36:DA:1242:A:N6	2.53	0.41
36:DA:1572:A:O2'	36:DA:1573:G:H5'	2.20	0.41
36:DA:1614:A:H61	55:DW:87:PRO:HA	1.85	0.41
36:DA:1624:G:H2'	36:DA:1625:C:H6	1.85	0.41
36:DA:1678:G:C8	36:DA:1678:G:O5'	2.67	0.41
36:DA:1829:A:N3	39:DD:15:PHE:CZ	2.88	0.41
36:DA:1884:A:H2'	36:DA:1885:A:H5''	2.02	0.41
36:DA:2307:G:N2	36:DA:2308:G:H5''	2.35	0.41
36:DA:2524:G:C5'	36:DA:2524:G:H8	2.32	0.41
36:DA:2568:C:C4	36:DA:2569:G:N7	2.88	0.41
36:DA:2724:C:H2'	36:DA:2725:A:H8	1.83	0.41
36:DA:2760:C:H2'	36:DA:2761:G:C5'	2.42	0.41
36:DA:2777:G:C8	36:DA:2777:G:H3'	2.55	0.41
38:DC:15:ASP:HA	38:DC:16:PRO:HD2	1.91	0.41
38:DC:74:VAL:HG21	38:DC:157:LYS:HG2	2.03	0.41
39:DD:95:LEU:HD12	39:DD:95:LEU:N	2.33	0.41
39:DD:149:PRO:O	39:DD:150:LYS:HB2	2.20	0.41
41:DF:59:TYR:CD1	41:DF:78:ILE:HB	2.55	0.41
42:DG:51:ARG:NE	42:DG:51:ARG:CA	2.64	0.41
42:DG:116:ASP:O	42:DG:117:PHE:HB3	2.20	0.41
43:DH:153:LYS:H	43:DH:153:LYS:CD	2.25	0.41
43:DH:162:ILE:HG23	43:DH:162:ILE:O	2.21	0.41
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	2.01	0.41
47:DO:2:ILE:HG22	47:DO:3:GLN:N	2.36	0.41
47:DO:90:GLN:C	47:DO:92:GLU:H	2.28	0.41
48:DP:16:ARG:CG	48:DP:17:LYS:N	2.82	0.41
48:DP:35:HIS:HB3	48:DP:36:LYS:H	1.41	0.41
48:DP:36:LYS:HB2	48:DP:41:ARG:CB	2.49	0.41
49:DQ:59:ARG:NH1	49:DQ:59:ARG:HG3	2.35	0.41
50:DR:12:ARG:HD3	50:DR:16:HIS:NE2	2.35	0.41
51:DS:70:GLY:O	51:DS:71:ARG:C	2.63	0.41
52:DT:36:GLU:O	52:DT:38:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DT:47:GLY:CA	52:DT:65:LYS:HB2	2.49	0.41
52:DT:51:ARG:HG2	52:DT:62:THR:HG23	2.02	0.41
52:DT:76:PHE:HB3	52:DT:82:LEU:HD21	2.02	0.41
54:DV:9:GLY:C	54:DV:10:LYS:HG3	2.45	0.41
55:DW:70:TYR:O	55:DW:108:GLY:N	2.51	0.41
56:DX:61:GLY:O	56:DX:62:LYS:O	2.37	0.41
58:DZ:119:GLU:HG2	58:DZ:119:GLU:O	2.20	0.41
1:AA:81:U:N3	1:AA:83:U:H5	2.18	0.41
1:AA:138:G:H2'	1:AA:139:G:O4'	2.21	0.41
1:AA:229:U:O2'	16:AP:23:ASP:OD2	2.37	0.41
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.21	0.41
1:AA:273:A:H2'	1:AA:274:A:O4'	2.20	0.41
1:AA:363:A:C6	1:AA:364:A:C6	3.08	0.41
1:AA:411:A:C5	1:AA:429:U:C5	3.08	0.41
1:AA:446:G:C2'	1:AA:447:G:H5'	2.49	0.41
1:AA:600:C:OP1	8:AH:97:VAL:HG12	2.20	0.41
1:AA:677:U:H3	1:AA:713:G:H22	1.68	0.41
1:AA:786:G:C2	1:AA:787:A:C4	3.08	0.41
1:AA:830:G:C5	1:AA:831:U:C5	3.07	0.41
1:AA:943:U:H2'	1:AA:944:G:C5'	2.49	0.41
1:AA:1071:C:H5''	5:AE:49:PRO:HG2	2.02	0.41
1:AA:1316:G:N1	1:AA:1319:A:OP2	2.50	0.41
1:AA:1330:U:O2	1:AA:1330:U:H2'	2.19	0.41
1:AA:1387:G:C4	1:AA:1388:C:C5	3.08	0.41
1:AA:1419:G:N7	1:AA:1482:G:N2	2.68	0.41
1:AA:1431:C:C4	1:AA:1432:G:C4	3.09	0.41
2:AB:98:LEU:HG	2:AB:101:MET:HE3	2.01	0.41
2:AB:200:ILE:HG22	2:AB:202:PRO:CD	2.49	0.41
3:AC:120:VAL:HG12	3:AC:121:ALA:H	1.85	0.41
4:AD:133:VAL:HG21	4:AD:138:TYR:CD1	2.56	0.41
5:AE:20:GLN:O	5:AE:21:ALA:C	2.62	0.41
6:AF:11:ASN:O	6:AF:12:PRO:C	2.64	0.41
7:AG:42:ILE:O	7:AG:43:PHE:C	2.64	0.41
8:AH:50:ARG:HG3	8:AH:50:ARG:NH1	2.35	0.41
8:AH:93:VAL:C	8:AH:94:TYR:CD1	2.99	0.41
9:AI:47:LEU:HD12	9:AI:47:LEU:N	2.35	0.41
9:AI:52:ALA:CB	9:AI:95:LYS:HE2	2.29	0.41
13:AM:37:THR:O	13:AM:38:GLY:C	2.63	0.41
13:AM:93:ARG:HD2	13:AM:93:ARG:N	2.36	0.41
15:AO:35:ARG:NH2	15:AO:59:MET:CE	2.83	0.41
19:AS:61:TYR:HD2	19:AS:62:ILE:H	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:18:G:H4'	22:AV:60:U:C2	2.55	0.41
25:AZ:67:HIS:CE1	25:AZ:98:GLN:HE22	2.17	0.41
25:AZ:169:PRO:O	25:AZ:171:ILE:CD1	2.68	0.41
25:AZ:223:MET:O	25:AZ:223:MET:CG	2.68	0.41
25:AZ:315:LYS:HG2	25:AZ:373:GLU:HG3	2.02	0.41
26:B0:23:VAL:CA	26:B0:38:VAL:HG22	2.45	0.41
26:B0:48:GLY:CA	26:B0:51:VAL:HB	2.50	0.41
27:B1:13:ILE:H	27:B1:13:ILE:CD1	2.12	0.41
27:B1:24:ALA:HB2	27:B1:32:LYS:HZ1	1.84	0.41
29:B3:6:VAL:HG12	29:B3:56:VAL:HG13	2.02	0.41
34:B8:28:GLY:C	34:B8:32:LEU:HD23	2.45	0.41
36:BA:66:C:H2'	36:BA:67:U:O4'	2.19	0.41
36:BA:118:A:H5'	36:BA:119:A:C8	2.55	0.41
36:BA:220:G:H1	36:BA:427:U:H3'	1.84	0.41
36:BA:246:C:O5'	36:BA:246:C:H6	2.03	0.41
36:BA:519:U:H5''	55:BW:25:ARG:CZ	2.49	0.41
36:BA:647:G:H3'	36:BA:648:G:H8	1.84	0.41
36:BA:662:G:O2'	36:BA:663:G:H5'	2.19	0.41
36:BA:671:C:OP1	48:BP:43:GLY:HA2	2.20	0.41
36:BA:769:G:C2'	36:BA:770:G:H5'	2.49	0.41
36:BA:841:A:C6	36:BA:938:G:N1	2.88	0.41
36:BA:966:G:H5'	36:BA:2272:U:H1'	2.03	0.41
36:BA:1012:U:H5	46:BN:28:THR:HG21	1.83	0.41
36:BA:1150:C:H2'	36:BA:1151:G:O4'	2.19	0.41
36:BA:1223:G:C5	36:BA:1225:G:OP2	2.73	0.41
36:BA:1458:C:H5'	36:BA:1459:G:O4'	2.20	0.41
36:BA:1636:C:H4'	36:BA:1761:C:O4'	2.20	0.41
36:BA:1792:G:P	39:BD:206:LEU:HB2	2.60	0.41
36:BA:1902:C:H1'	39:BD:244:ARG:CD	2.50	0.41
36:BA:2070:G:N2	36:BA:2442:C:H1'	2.35	0.41
36:BA:2361:A:C4	36:BA:2362:G:C8	3.09	0.41
36:BA:2579:C:O4'	40:BE:134:ILE:HG12	2.20	0.41
36:BA:2603:G:C5	36:BA:2604:U:C5	3.08	0.41
36:BA:2627:G:N2	36:BA:2777:G:OP2	2.45	0.41
36:BA:2641:G:OP2	46:BN:74:ARG:NH2	2.54	0.41
36:BA:2856:C:O2'	36:BA:2857:G:H5'	2.20	0.41
37:BB:42:C:H42	42:BG:91:ARG:CZ	2.32	0.41
38:BC:25:ALA:O	38:BC:26:ALA:C	2.63	0.41
39:BD:31:LYS:C	39:BD:33:LEU:H	2.29	0.41
39:BD:244:ARG:HG2	39:BD:245:PRO:N	2.35	0.41
40:BE:4:ILE:C	40:BE:5:LEU:HD23	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:143:ASN:HD22	40:BE:143:ASN:N	2.18	0.41
40:BE:199:ARG:HG2	40:BE:200:GLU:OE2	2.20	0.41
41:BF:31:HIS:HB2	48:BP:13:ASN:OD1	2.19	0.41
41:BF:45:ARG:NH1	41:BF:97:TYR:CE1	2.88	0.41
41:BF:68:LYS:HB3	41:BF:69:HIS:CD2	2.55	0.41
41:BF:99:TYR:O	41:BF:101:LEU:N	2.53	0.41
42:BG:2:PRO:O	42:BG:3:LEU:CB	2.67	0.41
42:BG:47:LYS:NZ	42:BG:81:LYS:CG	2.81	0.41
42:BG:98:ARG:HA	42:BG:98:ARG:HD3	1.83	0.41
42:BG:140:ILE:HD12	42:BG:140:ILE:C	2.44	0.41
42:BG:167:GLU:CD	42:BG:167:GLU:H	2.28	0.41
43:BH:130:ARG:HB3	43:BH:130:ARG:HH11	1.83	0.41
48:BP:126:VAL:HG13	48:BP:145:PRO:CB	2.49	0.41
50:BR:54:LEU:HD12	50:BR:54:LEU:N	2.36	0.41
53:BU:20:LEU:CD2	53:BU:20:LEU:N	2.79	0.41
53:BU:28:ARG:HB3	53:BU:38:THR:OG1	2.21	0.41
54:BV:2:PHE:CE1	54:BV:13:ARG:NH1	2.89	0.41
56:BX:11:PRO:HG2	56:BX:13:LEU:HD21	2.03	0.41
1:CA:66:G:C2	1:CA:104:G:H1'	2.55	0.41
1:CA:325:A:C2'	1:CA:326:G:H5'	2.51	0.41
1:CA:331:G:H8	1:CA:331:G:O5'	2.03	0.41
1:CA:344:A:H3'	1:CA:346:G:O6	2.20	0.41
1:CA:529:G:O6	12:CL:49:ASN:HB3	2.19	0.41
1:CA:681:C:H6	1:CA:681:C:O5'	2.03	0.41
1:CA:764:C:H2'	1:CA:765:G:C8	2.55	0.41
1:CA:1039:C:C6	1:CA:1040:U:H5	2.39	0.41
1:CA:1095:U:P	1:CA:1108:G:H1	2.43	0.41
1:CA:1342:C:O5'	1:CA:1342:C:H6	2.03	0.41
2:CB:89:GLY:O	2:CB:90:MET:HE3	2.21	0.41
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.82	0.41
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.86	0.41
3:CC:164:ARG:HE	3:CC:164:ARG:HB3	1.22	0.41
5:CE:64:ARG:N	5:CE:66:MET:CE	2.83	0.41
6:CF:37:VAL:O	6:CF:38:GLU:HG3	2.20	0.41
6:CF:75:LEU:O	6:CF:78:GLU:HB3	2.21	0.41
6:CF:81:ILE:H	6:CF:81:ILE:HG13	1.66	0.41
10:CJ:46:ARG:C	10:CJ:47:PHE:CD1	2.99	0.41
10:CJ:80:LYS:O	10:CJ:83:GLU:HB3	2.20	0.41
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.83	0.41
11:CK:12:ARG:HH21	11:CK:14:VAL:CG1	2.33	0.41
11:CK:39:PRO:C	11:CK:40:ILE:HG12	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:89:ALA:O	11:CK:91:ARG:N	2.53	0.41
11:CK:95:ILE:O	11:CK:96:ARG:C	2.63	0.41
12:CL:39:VAL:O	12:CL:56:ALA:HB1	2.20	0.41
13:CM:35:GLU:CG	13:CM:36:LYS:H	2.33	0.41
18:CR:44:LEU:HB3	18:CR:48:GLY:C	2.45	0.41
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.35	0.41
25:CZ:140:MET:O	25:CZ:141:VAL:O	2.37	0.41
28:D2:38:GLN:OE1	28:D2:44:LEU:HD21	2.21	0.41
28:D2:46:GLN:HB3	28:D2:48:HIS:CE1	2.55	0.41
29:D3:49:LYS:O	29:D3:49:LYS:CG	2.68	0.41
32:D6:20:ASN:HD21	32:D6:41:PRO:HB3	1.81	0.41
33:D7:3:ARG:HA	33:D7:3:ARG:HD3	1.89	0.41
36:DA:245:G:H2'	36:DA:246:C:C6	2.55	0.41
36:DA:272(D):G:C2	36:DA:272(E):G:C5	3.08	0.41
36:DA:272(J):C:H3'	36:DA:274:G:H5''	2.02	0.41
36:DA:418:G:C2	36:DA:419:C:C6	3.08	0.41
36:DA:532:A:C5'	53:DU:28:ARG:NH1	2.83	0.41
36:DA:605:C:N4	36:DA:623:G:O6	2.54	0.41
36:DA:628:G:C2'	36:DA:629:G:C5'	2.91	0.41
36:DA:662:G:O2'	36:DA:663:G:H5'	2.20	0.41
36:DA:681:G:H2'	36:DA:682:G:H8	1.83	0.41
36:DA:811:U:H6	48:DP:24:GLY:C	2.28	0.41
36:DA:1273:U:C4	36:DA:2003:G:O4'	2.74	0.41
36:DA:1666:G:H3'	36:DA:1667:G:C8	2.55	0.41
36:DA:1789:A:C5	36:DA:1790:C:C5	3.08	0.41
36:DA:1791:A:H5'	36:DA:1792:G:OP2	2.20	0.41
36:DA:1806:C:N4	36:DA:1811:G:N1	2.68	0.41
36:DA:1820:U:C2	39:DD:159:ALA:O	2.73	0.41
36:DA:2352:A:C2	36:DA:2366:A:C2	3.09	0.41
36:DA:2712:U:C2'	36:DA:2713:A:H5'	2.50	0.41
39:DD:134:ARG:NE	39:DD:135:PHE:HE1	2.18	0.41
39:DD:270:ILE:C	39:DD:271:ILE:CG1	2.93	0.41
40:DE:28:ALA:O	40:DE:29:GLY:O	2.38	0.41
40:DE:96:PHE:O	40:DE:175:VAL:HG11	2.21	0.41
41:DF:40:GLN:NE2	41:DF:184:TYR:CB	2.83	0.41
41:DF:97:TYR:N	41:DF:97:TYR:CD2	2.88	0.41
41:DF:116:ASP:O	41:DF:120:GLU:HG2	2.19	0.41
43:DH:65:HIS:CE1	43:DH:69:ARG:NH2	2.88	0.41
46:DN:57:ALA:O	46:DN:58:ASP:C	2.63	0.41
46:DN:90:MET:O	46:DN:95:PRO:HA	2.21	0.41
48:DP:22:GLY:O	48:DP:29:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DP:24:GLY:HA2	48:DP:33:ARG:NH1	2.34	0.41
49:DQ:42:ILE:HB	49:DQ:97:VAL:HG21	2.02	0.41
49:DQ:50:ALA:O	49:DQ:54:MET:HB2	2.20	0.41
51:DS:12:PHE:HD2	51:DS:12:PHE:H	1.69	0.41
51:DS:66:ALA:C	51:DS:99:LYS:HD3	2.45	0.41
52:DT:78:LEU:HA	52:DT:82:LEU:HD22	2.03	0.41
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.48	0.41
52:DT:110:ILE:HG22	52:DT:111:ARG:N	2.35	0.41
52:DT:117:ASP:O	52:DT:118:ARG:C	2.64	0.41
53:DU:57:PHE:C	53:DU:59:ARG:H	2.28	0.41
54:DV:71:LEU:CD2	54:DV:84:LYS:HE2	2.51	0.41
55:DW:6:ILE:CG2	55:DW:7:ALA:H	2.33	0.41
55:DW:88:ARG:HA	55:DW:88:ARG:HD2	1.86	0.41
56:DX:58:HIS:C	56:DX:59:VAL:HG23	2.45	0.41
57:DY:56:PRO:O	57:DY:57:GLN:O	2.38	0.41
58:DZ:44:PHE:C	58:DZ:44:PHE:CD1	2.99	0.41
58:DZ:98:MET:HE3	58:DZ:99:TYR:O	2.20	0.41
58:DZ:103:ARG:HD3	58:DZ:138:GLU:HG2	2.03	0.41
1:AA:81:U:H1'	1:AA:82:U:C5	2.56	0.41
1:AA:654:G:H2'	1:AA:655:A:C8	2.55	0.41
1:AA:716:A:H8	1:AA:716:A:O5'	2.03	0.41
1:AA:792:A:O2'	1:AA:794:A:C8	2.61	0.41
1:AA:830:G:H2'	1:AA:831:U:O4'	2.21	0.41
1:AA:950:U:H2'	1:AA:951:G:C8	2.53	0.41
1:AA:1091:U:O2	1:AA:1093:A:C8	2.74	0.41
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.56	0.41
2:AB:179:LYS:CA	8:AH:72:PRO:HD3	2.47	0.41
3:AC:48:TYR:OH	3:AC:122:GLU:HG3	2.20	0.41
4:AD:38:TYR:O	4:AD:38:TYR:HD1	2.04	0.41
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.55	0.41
5:AE:60:TYR:O	5:AE:63:ARG:N	2.51	0.41
7:AG:118:VAL:CG2	7:AG:119:ARG:H	2.19	0.41
8:AH:40:ALA:N	8:AH:45:ILE:HG13	2.35	0.41
9:AI:90:PRO:C	9:AI:92:TYR:N	2.78	0.41
11:AK:38:ASN:O	11:AK:39:PRO:O	2.38	0.41
12:AL:15:ARG:HD3	12:AL:15:ARG:HA	1.88	0.41
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.84	0.41
15:AO:36:ILE:HD12	15:AO:63:ARG:NH1	2.36	0.41
16:AP:8:ARG:HB2	16:AP:28:ARG:HH21	1.85	0.41
16:AP:60:LEU:C	16:AP:62:VAL:N	2.79	0.41
20:AT:70:SER:HA	20:AT:73:HIS:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:56:C:H1'	42:BG:76:SER:HB3	2.03	0.41
22:AV:73:A:N3	22:AV:73:A:H3'	2.35	0.41
25:AZ:34:VAL:C	25:AZ:36:ALA:H	2.29	0.41
25:AZ:214:VAL:CG2	25:AZ:215:ARG:N	2.83	0.41
25:AZ:234:ARG:C	25:AZ:289:LEU:HD11	2.45	0.41
25:AZ:281:ILE:HD12	25:AZ:281:ILE:C	2.46	0.41
25:AZ:362:VAL:HG11	25:AZ:368:VAL:HG22	2.02	0.41
28:B2:25:VAL:HA	28:B2:28:LYS:HB2	2.01	0.41
28:B2:33:MET:O	28:B2:35:LEU:N	2.53	0.41
34:B8:17:THR:OG1	34:B8:21:LYS:HB2	2.20	0.41
36:BA:11:G:O2'	36:BA:12:U:H5'	2.20	0.41
36:BA:336:C:H5''	57:BY:7:VAL:CG1	2.51	0.41
36:BA:477:A:H2'	36:BA:478:A:H8	1.85	0.41
36:BA:547:A:O2'	36:BA:548:A:H5'	2.20	0.41
36:BA:627:A:H8	36:BA:627:A:OP1	2.03	0.41
36:BA:763:G:H2'	36:BA:764:A:O5'	2.19	0.41
36:BA:802:A:H2'	36:BA:803:U:H6	1.76	0.41
36:BA:832:G:H2'	36:BA:833:U:C6	2.56	0.41
36:BA:952:G:C4	36:BA:966:G:N2	2.89	0.41
36:BA:1011:G:C6	36:BA:1151:G:C6	3.08	0.41
36:BA:1093:G:O3'	43:BH:170:ARG:NH2	2.53	0.41
36:BA:1226:A:N7	36:BA:1227:G:H1'	2.36	0.41
36:BA:1827:C:H2'	36:BA:1828:G:C4'	2.50	0.41
36:BA:1930:G:N2	36:BA:1969:A:C5'	2.83	0.41
36:BA:1935:G:C5	36:BA:1962:C:C5	3.09	0.41
36:BA:2078:C:C4	36:BA:2079:U:C4	3.08	0.41
36:BA:2106:G:C6	36:BA:2184:G:C6	3.08	0.41
36:BA:2111:C:C4	36:BA:2145:C:H2'	2.54	0.41
36:BA:2312:U:O2'	42:BG:40:ASN:ND2	2.52	0.41
36:BA:2414:G:N2	48:BP:67:MET:HE1	2.35	0.41
36:BA:2577:A:H8	36:BA:2577:A:O5'	2.04	0.41
36:BA:2635:C:H5''	40:BE:78:LEU:HD12	2.02	0.41
36:BA:2682:U:H1'	40:BE:12:THR:HA	2.03	0.41
36:BA:2685:G:O2'	36:BA:2726:U:H5	2.03	0.41
36:BA:2809:A:N6	36:BA:2891:G:H2'	2.36	0.41
36:BA:2836:U:H2'	36:BA:2837:G:C8	2.55	0.41
38:BC:71:GLN:NE2	38:BC:157:LYS:HD3	2.33	0.41
41:BF:49:ALA:HB1	41:BF:92:PRO:CB	2.50	0.41
41:BF:114:VAL:HG21	41:BF:181:LEU:HD21	2.02	0.41
41:BF:127:GLU:OE1	41:BF:196:LEU:HD12	2.21	0.41
42:BG:4:ASP:OD2	42:BG:9:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:39:ARG:C	46:BN:41:ASP:N	2.75	0.41
46:BN:40:PRO:HA	53:BU:64:ARG:HA	2.02	0.41
48:BP:23:PRO:CG	48:BP:33:ARG:NE	2.83	0.41
48:BP:100:LEU:CB	48:BP:106:LEU:HD13	2.44	0.41
50:BR:76:VAL:O	50:BR:77:ARG:C	2.64	0.41
52:BT:46:GLU:O	52:BT:65:LYS:HG2	2.20	0.41
52:BT:76:PHE:HB3	52:BT:82:LEU:HD21	2.03	0.41
53:BU:84:LYS:HD3	53:BU:84:LYS:HA	1.92	0.41
54:BV:58:VAL:HG21	54:BV:98:GLU:HG2	2.02	0.41
55:BW:12:ILE:HG23	55:BW:17:VAL:CG2	2.50	0.41
55:BW:80:PRO:O	55:BW:100:THR:HG22	2.19	0.41
57:BY:13:VAL:O	57:BY:24:VAL:HG13	2.20	0.41
57:BY:67:LEU:CG	57:BY:68:HIS:H	2.33	0.41
1:CA:110:C:C4	1:CA:111:G:N7	2.88	0.41
1:CA:355:C:N4	1:CA:356:A:N6	2.68	0.41
1:CA:448:A:C8	1:CA:487:A:C6	3.08	0.41
1:CA:619:U:N3	4:CD:135:LEU:HD11	2.35	0.41
1:CA:684:A:C2	11:CK:39:PRO:HG2	2.55	0.41
1:CA:920:U:H1'	1:CA:1080:A:N3	2.35	0.41
1:CA:928:G:C2	1:CA:1390:U:O2	2.73	0.41
1:CA:949:A:N7	1:CA:950:U:C4	2.89	0.41
1:CA:993:G:H4'	1:CA:994:A:OP2	2.20	0.41
1:CA:1128:C:O2'	1:CA:1130:A:N7	2.51	0.41
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.20	0.41
1:CA:1346:A:C6	1:CA:1374:A:H5''	2.56	0.41
1:CA:1418:A:C6	1:CA:1483:A:C5	3.08	0.41
1:CA:1419:G:O6	1:CA:1482:G:C5	2.74	0.41
1:CA:1432:G:N2	1:CA:1469:G:O6	2.54	0.41
1:CA:1481:U:H2'	1:CA:1482:G:H8	1.84	0.41
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.04	0.41
3:CC:60:ALA:N	3:CC:63:ASN:HD21	2.19	0.41
3:CC:125:GLU:OE2	3:CC:190:ARG:N	2.52	0.41
3:CC:177:THR:HG22	3:CC:180:ALA:H	1.85	0.41
5:CE:6:PHE:CB	5:CE:34:VAL:HG22	2.50	0.41
5:CE:150:ARG:HG2	5:CE:151:LEU:HD23	2.01	0.41
8:CH:2:LEU:CD2	8:CH:3:THR:N	2.80	0.41
9:CI:87:GLN:C	9:CI:89:ASN:N	2.79	0.41
10:CJ:78:ASN:ND2	10:CJ:81:THR:HG21	2.10	0.41
24:CY:37:YG:H142	24:CY:38:A:C2	2.55	0.41
24:CY:55:PSU:N1	24:CY:58:A:OP2	2.53	0.41
25:CZ:115:GLN:HE21	25:CZ:115:GLN:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:7:ARG:HG3	28:D2:7:ARG:H	1.47	0.41
28:D2:50:ILE:N	28:D2:50:ILE:CD1	2.84	0.41
31:D5:3:LYS:O	31:D5:4:HIS:C	2.63	0.41
34:D8:10:ALA:CB	34:D8:13:ARG:HG2	2.49	0.41
35:D9:25:VAL:HB	35:D9:34:GLN:CB	2.51	0.41
36:DA:45:C:H2'	36:DA:47:C:C6	2.55	0.41
36:DA:139:G:C5	36:DA:140:G:H2'	2.55	0.41
36:DA:188:G:C6	36:DA:189:G:C4	3.08	0.41
36:DA:206:U:H2'	36:DA:207:A:H8	1.84	0.41
36:DA:247:G:OP2	36:DA:249:C:H5	2.04	0.41
36:DA:271(T):C:H2'	36:DA:271(U):G:C8	2.55	0.41
36:DA:271(Z):C:H1'	36:DA:272(C):G:H1'	2.03	0.41
36:DA:464:U:H2'	36:DA:465:G:C5'	2.51	0.41
36:DA:603:A:C4'	36:DA:604:G:O5'	2.68	0.41
36:DA:654(Q):C:O2'	36:DA:654(R):C:H5'	2.20	0.41
36:DA:656:G:C6	36:DA:657:U:C4	3.08	0.41
36:DA:937:U:H2'	36:DA:938:G:H8	1.86	0.41
36:DA:1142:U:H3'	36:DA:1142(A):A:C5'	2.51	0.41
36:DA:1365:A:N6	36:DA:1366:A:C6	2.89	0.41
36:DA:1541:G:N3	36:DA:1541:G:O4'	2.53	0.41
36:DA:1573:G:C8	36:DA:1574:C:C5	3.08	0.41
36:DA:1578:U:H2'	36:DA:1579:A:C5'	2.35	0.41
36:DA:1641:A:H2'	36:DA:1642:G:O4'	2.19	0.41
36:DA:1706:U:O2	36:DA:1757:U:H5'	2.21	0.41
36:DA:1809:A:H2'	36:DA:1810:A:H8	1.83	0.41
36:DA:2359:C:O2'	36:DA:2360:A:H5'	2.21	0.41
36:DA:2439:A:C8	36:DA:2586:C:H4'	2.56	0.41
36:DA:2452:C:C4	36:DA:2453:A:C6	3.08	0.41
36:DA:2568:C:N4	36:DA:2569:G:N7	2.69	0.41
36:DA:2600:A:OP2	39:DD:237:GLU:HG3	2.20	0.41
36:DA:2663:G:H8	36:DA:2663:G:OP2	2.03	0.41
36:DA:2743:C:N3	36:DA:2762:G:C2	2.88	0.41
36:DA:2754:U:H2'	36:DA:2756:U:P	2.61	0.41
37:DB:21:G:C8	37:DB:63:G:C2	3.08	0.41
37:DB:104:U:H6	37:DB:104:U:H3'	1.86	0.41
38:DC:42:GLU:OE1	38:DC:216:THR:O	2.38	0.41
38:DC:84:LYS:O	38:DC:88:GLU:HG3	2.19	0.41
38:DC:191:ALA:HA	38:DC:194:ARG:CZ	2.51	0.41
39:DD:84:TYR:CD2	39:DD:84:TYR:C	2.98	0.41
40:DE:145:LYS:O	40:DE:145:LYS:HD3	2.20	0.41
40:DE:176:ILE:CG2	40:DE:178:GLU:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:70:THR:C	41:DF:72:ARG:N	2.77	0.41
42:DG:68:PRO:HB3	42:DG:90:LEU:HG	2.02	0.41
42:DG:83:ARG:HG3	42:DG:83:ARG:NH1	2.35	0.41
46:DN:18:ALA:C	46:DN:20:GLY:H	2.28	0.41
47:DO:71:ARG:NE	47:DO:105:GLU:CD	2.78	0.41
48:DP:85:LEU:HD11	48:DP:137:LYS:HD3	2.02	0.41
49:DQ:87:LYS:O	49:DQ:88:GLY:C	2.63	0.41
50:DR:26:LYS:O	50:DR:27:SER:C	2.64	0.41
50:DR:44:LEU:HD13	50:DR:48:VAL:HB	2.01	0.41
52:DT:78:LEU:O	52:DT:79:HIS:CD2	2.72	0.41
56:DX:73:ARG:O	56:DX:74:PRO:C	2.62	0.41
57:DY:14:LEU:HD12	57:DY:15:VAL:H	1.84	0.41
57:DY:38:ILE:HD12	57:DY:38:ILE:HA	1.86	0.41
57:DY:84:ARG:HH21	57:DY:97:ARG:HB2	1.85	0.41
58:DZ:105:VAL:HG12	58:DZ:139:VAL:O	2.20	0.41
1:AA:59:A:H3'	1:AA:60:A:H5''	2.03	0.41
1:AA:234:C:O2'	1:AA:235:C:H5'	2.21	0.41
1:AA:297:G:H4'	1:AA:557:G:H4'	2.03	0.41
1:AA:342:C:C4	1:AA:343:U:N3	2.89	0.41
1:AA:662:G:O2'	1:AA:663:A:H5'	2.21	0.41
1:AA:928:G:H2'	1:AA:929:G:C5'	2.50	0.41
1:AA:965:A:HO2'	1:AA:966:G:H5''	1.84	0.41
1:AA:1050:G:O2'	1:AA:1051:C:C6	2.71	0.41
1:AA:1308:U:OP2	13:AM:99:ARG:HD2	2.21	0.41
1:AA:1339:A:C1'	22:AV:41:C:H1'	2.51	0.41
1:AA:1523:G:H2'	1:AA:1524:C:C6	2.56	0.41
2:AB:69:LEU:CD1	2:AB:69:LEU:C	2.94	0.41
3:AC:167:TRP:O	3:AC:168:ALA:HB2	2.19	0.41
4:AD:62:GLN:NE2	4:AD:65:ARG:HH21	2.18	0.41
4:AD:109:GLY:HA3	4:AD:165:MET:HE2	2.01	0.41
7:AG:35:LYS:C	7:AG:37:ASN:N	2.78	0.41
9:AI:4:TYR:O	9:AI:18:PHE:HA	2.20	0.41
11:AK:39:PRO:C	11:AK:40:ILE:HG12	2.45	0.41
13:AM:105:THR:O	13:AM:106:ASN:CB	2.67	0.41
16:AP:5:ARG:HB2	16:AP:6:LEU:H	1.67	0.41
18:AR:48:GLY:O	18:AR:74:ARG:NH2	2.53	0.41
18:AR:55:ARG:C	18:AR:57:GLY:N	2.78	0.41
20:AT:50:GLU:CB	20:AT:100:ILE:HD13	2.45	0.41
20:AT:75:ASN:O	20:AT:79:ARG:N	2.50	0.41
22:AV:47:U:O2'	22:AV:48:C:H5'	2.20	0.41
22:AV:70:G:C2'	22:AV:71:G:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:68:C:H2'	22:AW:69:G:H8	1.80	0.41
24:AY:44:A:H2'	24:AY:45:G:O4'	2.21	0.41
26:B0:60:PHE:CE2	36:BA:2365:G:H4'	2.55	0.41
29:B3:20:LYS:NZ	36:BA:970:C:OP1	2.54	0.41
31:B5:3:LYS:O	31:B5:4:HIS:C	2.61	0.41
31:B5:4:HIS:O	36:BA:2056:G:C2	2.73	0.41
31:B5:52:TYR:CE2	36:BA:2884:U:O2	2.74	0.41
33:B7:19:ARG:HD3	36:BA:125:G:OP2	2.20	0.41
34:B8:22:VAL:O	34:B8:49:VAL:HG23	2.21	0.41
34:B8:41:ILE:HG23	34:B8:42:ARG:N	2.35	0.41
36:BA:6:A:HO2'	46:BN:130:HIS:HB2	1.79	0.41
36:BA:33:U:O4	36:BA:446:G:O2'	2.33	0.41
36:BA:179:G:C2	36:BA:180:G:C5	3.08	0.41
36:BA:271(B):C:N4	36:BA:271(W):G:H21	2.18	0.41
36:BA:413:C:H2'	36:BA:414:C:C6	2.56	0.41
36:BA:483:A:OP2	36:BA:484:C:N4	2.54	0.41
36:BA:614(C):A:H4'	36:BA:615:G:OP1	2.20	0.41
36:BA:668:G:H2'	36:BA:670:A:H62	1.85	0.41
36:BA:780:G:C2	36:BA:782:A:C2	3.08	0.41
36:BA:1142(A):A:H8	36:BA:1142(A):A:H5'	1.86	0.41
36:BA:1317:A:C2	36:BA:1336:A:C2	3.09	0.41
36:BA:1614:A:H61	55:BW:87:PRO:HA	1.86	0.41
36:BA:1720:U:C2'	36:BA:1721:G:H5''	2.50	0.41
36:BA:1818:U:H2'	39:BD:157:ARG:CD	2.50	0.41
36:BA:1838:C:C6	36:BA:1898:U:C5	3.09	0.41
36:BA:1948:G:C6	36:BA:1949:G:C5	3.08	0.41
36:BA:2078:C:O2'	36:BA:2079:U:H5'	2.20	0.41
36:BA:2133:G:C8	36:BA:2133:G:C3'	3.03	0.41
36:BA:2379:G:H2'	36:BA:2380:C:H6	1.78	0.41
36:BA:2416:C:H5''	48:BP:64:LYS:NZ	2.36	0.41
36:BA:2539:C:C2	36:BA:2540:C:C5	3.09	0.41
36:BA:2572:A:P	40:BE:144:ARG:HB2	2.60	0.41
36:BA:2584:U:O2	36:BA:2584:U:O4'	2.38	0.41
38:BC:192:PHE:O	38:BC:195:ALA:N	2.54	0.41
38:BC:222:VAL:O	38:BC:224:ILE:HG23	2.20	0.41
40:BE:8:LYS:O	40:BE:193:GLY:N	2.53	0.41
40:BE:63:LEU:O	40:BE:64:LYS:C	2.62	0.41
40:BE:154:LYS:HD2	40:BE:154:LYS:HA	1.90	0.41
40:BE:176:ILE:CG2	40:BE:178:GLU:HB3	2.51	0.41
41:BF:39:TRP:O	41:BF:42:ALA:HB3	2.20	0.41
41:BF:72:ARG:NH1	41:BF:72:ARG:CA	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:78:ILE:HA	41:BF:83:PHE:CE1	2.56	0.41
42:BG:36:LYS:CG	42:BG:94:LEU:O	2.69	0.41
42:BG:45:GLU:O	42:BG:47:LYS:N	2.47	0.41
46:BN:21:LYS:O	46:BN:61:ARG:HB2	2.19	0.41
47:BO:2:ILE:HG22	47:BO:3:GLN:N	2.35	0.41
47:BO:29:ASN:O	47:BO:30:ALA:C	2.62	0.41
49:BQ:6:ARG:O	49:BQ:7:MET:CG	2.65	0.41
50:BR:79:LEU:C	50:BR:79:LEU:HD13	2.45	0.41
52:BT:66:VAL:HG12	52:BT:70:VAL:O	2.20	0.41
56:BX:61:GLY:O	56:BX:62:LYS:O	2.38	0.41
57:BY:62:GLU:HB3	57:BY:63:LYS:H	1.73	0.41
58:BZ:103:ARG:CZ	58:BZ:136:PHE:CE1	3.03	0.41
1:CA:106:C:H2'	1:CA:107:G:H5'	1.99	0.41
1:CA:127:G:H2'	1:CA:128:G:H8	1.84	0.41
1:CA:297:G:H4'	1:CA:557:G:H4'	2.02	0.41
1:CA:328:C:O2	1:CA:328:C:C2'	2.68	0.41
1:CA:375:U:H2'	1:CA:376:G:C8	2.54	0.41
1:CA:381:C:O2'	1:CA:382:A:H5'	2.21	0.41
1:CA:452:A:HO2'	1:CA:453:A:H5''	1.79	0.41
1:CA:668:G:C2	1:CA:739:C:C2	3.08	0.41
1:CA:761:G:H8	1:CA:761:G:O5'	2.04	0.41
1:CA:849:C:O2'	1:CA:850:U:H5'	2.21	0.41
1:CA:906:G:H8	1:CA:906:G:O5'	2.03	0.41
1:CA:993:G:C2	1:CA:1046:A:N3	2.89	0.41
1:CA:1001(A):G:O2'	1:CA:1002:G:H5'	2.21	0.41
1:CA:1055:A:N6	1:CA:1206:G:C6	2.89	0.41
1:CA:1148:U:O2'	1:CA:1149:C:H5'	2.19	0.41
1:CA:1327:C:OP1	21:CU:20:LYS:N	2.44	0.41
1:CA:1418:A:H2	36:DA:1948:G:N3	2.17	0.41
1:CA:1495:U:OP1	13:CM:125:ARG:HD3	2.20	0.41
3:CC:94:LEU:O	3:CC:95:THR:OG1	2.21	0.41
4:CD:11:LEU:O	4:CD:13:ARG:O	2.38	0.41
4:CD:60:GLU:C	4:CD:203:VAL:HG22	2.45	0.41
4:CD:106:TYR:HE1	4:CD:113:SER:HA	1.86	0.41
4:CD:155:LEU:HD23	4:CD:155:LEU:HA	1.88	0.41
7:CG:52:GLU:O	7:CG:53:LYS:C	2.64	0.41
7:CG:72:ARG:N	7:CG:142:GLU:OE1	2.53	0.41
8:CH:114:THR:HG22	8:CH:130:GLY:O	2.21	0.41
9:CI:76:ALA:O	9:CI:79:LEU:N	2.42	0.41
13:CM:75:ALA:O	13:CM:78:ILE:N	2.54	0.41
14:CN:57:ARG:CB	14:CN:57:ARG:NH1	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:29:HIS:CE1	17:CQ:32:TYR:H	2.33	0.41
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.21	0.41
24:CZ:65:C:H5''	25:CZ:341:GLN:HG2	2.03	0.41
26:D0:46:LYS:O	26:D0:47:PRO:O	2.38	0.41
27:D1:7:ILE:HD12	27:D1:70:VAL:HG22	2.02	0.41
27:D1:25:LYS:CB	36:DA:388:G:H5'	2.51	0.41
29:D3:37:LEU:O	29:D3:38:GLU:O	2.38	0.41
31:D5:6:VAL:H	36:DA:2056:G:H21	1.67	0.41
34:D8:58:ILE:HG22	34:D8:58:ILE:O	2.20	0.41
36:DA:179:G:C2	36:DA:180:G:C5	3.08	0.41
36:DA:327:G:N2	36:DA:336:C:N3	2.69	0.41
36:DA:666:G:H2'	36:DA:667:U:C5	2.55	0.41
36:DA:841:A:N1	36:DA:938:G:C6	2.88	0.41
36:DA:968:G:HO2'	36:DA:969:U:H5'	1.82	0.41
36:DA:1070:A:N6	36:DA:1096:A:H2	2.19	0.41
36:DA:1145:C:C2	36:DA:1146:C:H5	2.38	0.41
36:DA:1228:G:N2	36:DA:1229:G:C4	2.89	0.41
36:DA:1324:G:C2	36:DA:1328:G:N1	2.89	0.41
36:DA:1387:C:C4	36:DA:1401:G:N2	2.89	0.41
36:DA:1561:G:O2'	36:DA:1562:A:H5'	2.21	0.41
36:DA:1624:G:C5	36:DA:1625:C:C5	3.09	0.41
36:DA:1652:A:N6	36:DA:1653:G:N2	2.69	0.41
36:DA:1747:G:H2'	36:DA:1747(A):G:H8	1.86	0.41
36:DA:2106:G:H2'	36:DA:2107:C:O4'	2.20	0.41
36:DA:2175:C:N3	36:DA:2176:A:N1	2.68	0.41
36:DA:2202:C:H2'	36:DA:2203:U:O4'	2.21	0.41
36:DA:2299:G:O2'	36:DA:2300:G:H5'	2.21	0.41
36:DA:2458:G:C4	36:DA:2490:G:C2	3.09	0.41
36:DA:2517:C:C4	36:DA:2542:A:N1	2.89	0.41
36:DA:2712(A):A:H5''	36:DA:2713:A:OP2	2.21	0.41
37:DB:104:U:O3'	58:DZ:72:ARG:NH1	2.53	0.41
38:DC:47:LEU:N	38:DC:47:LEU:CD1	2.82	0.41
38:DC:199:HIS:O	38:DC:201:PRO:N	2.53	0.41
39:DD:239:ARG:O	39:DD:240:ALA:HB2	2.21	0.41
40:DE:24:THR:N	40:DE:184:VAL:O	2.52	0.41
41:DF:110:LEU:HD11	41:DF:181:LEU:HD23	2.02	0.41
42:DG:29:TRP:O	42:DG:30:GLU:C	2.64	0.41
42:DG:39:ILE:HG22	42:DG:157:ILE:CG1	2.47	0.41
42:DG:39:ILE:HG22	42:DG:157:ILE:HG23	2.03	0.41
42:DG:121:ASN:HD21	42:DG:124:SER:HA	1.85	0.41
43:DH:64:LEU:HA	43:DH:67:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DH:66:GLY:CA	43:DH:69:ARG:HB3	2.50	0.41
43:DH:106:THR:HG22	43:DH:112:PRO:HA	2.03	0.41
48:DP:18:ARG:O	48:DP:20:GLY:N	2.54	0.41
49:DQ:19:GLY:HA2	58:DZ:79:ARG:HH22	1.86	0.41
49:DQ:48:GLU:O	49:DQ:49:ALA:C	2.64	0.41
50:DR:85:PRO:O	50:DR:87:TYR:N	2.53	0.41
51:DS:63:THR:C	51:DS:65:VAL:N	2.77	0.41
52:DT:83:ILE:O	52:DT:84:GLN:C	2.62	0.41
53:DU:111:GLU:C	53:DU:113:ALA:N	2.77	0.41
56:DX:12:VAL:HG12	56:DX:27:THR:H	1.86	0.41
57:DY:67:LEU:CG	57:DY:68:HIS:H	2.34	0.41
58:DZ:28:MET:HA	58:DZ:88:PHE:CB	2.46	0.41
1:AA:55:A:C2'	25:AZ:232:THR:HG21	2.39	0.41
1:AA:66:G:N2	1:AA:172:A:C2	2.89	0.41
1:AA:90:U:O2'	1:AA:91:C:H5	2.03	0.41
1:AA:109:A:C4	1:AA:327:A:C2	3.08	0.41
1:AA:119:A:H5''	1:AA:120:A:C5'	2.50	0.41
1:AA:248:C:N3	1:AA:277:C:N3	2.68	0.41
1:AA:344:A:H3'	1:AA:346:G:O6	2.20	0.41
1:AA:404:U:H5'	4:AD:122:ARG:CD	2.49	0.41
1:AA:439:A:C8	1:AA:496:A:C2	3.08	0.41
1:AA:529:G:O6	12:AL:49:ASN:CB	2.69	0.41
1:AA:597:G:C8	1:AA:598:U:C5	3.08	0.41
1:AA:628:G:H2'	1:AA:629:G:C8	2.55	0.41
1:AA:742:G:H5''	15:AO:58:MET:CE	2.42	0.41
1:AA:887:G:N3	1:AA:887:G:H2'	2.35	0.41
1:AA:924:C:O2'	1:AA:925:G:H5'	2.20	0.41
1:AA:956:U:C2'	1:AA:957:U:H5'	2.50	0.41
1:AA:1163:C:N3	1:AA:1174:G:C2	2.88	0.41
1:AA:1280:A:O2'	1:AA:1281:U:P	2.79	0.41
1:AA:1467:G:O5'	1:AA:1467:G:H8	2.04	0.41
1:AA:1487:G:H2'	1:AA:1488:G:C5'	2.51	0.41
2:AB:89:GLY:O	2:AB:90:MET:HE3	2.20	0.41
3:AC:104:GLN:C	3:AC:105:GLU:O	2.61	0.41
4:AD:102:ASP:HB3	4:AD:121:VAL:HG21	2.02	0.41
10:AJ:32:ALA:O	10:AJ:33:GLN:C	2.64	0.41
12:AL:6:THR:HG1	12:AL:9:GLN:HG3	1.85	0.41
15:AO:3:ILE:HD12	15:AO:34:LEU:HD21	2.03	0.41
16:AP:80:PHE:O	16:AP:81:ARG:C	2.64	0.41
19:AS:43:GLU:O	19:AS:45:VAL:N	2.53	0.41
22:AV:20:U:C3'	22:AV:21:A:C5'	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:54:U:H2'	22:AW:55:U:H5'	2.03	0.41
24:AY:50:G:C6	24:AY:51:C:N4	2.88	0.41
24:AY:75:C:C6	25:AZ:230:THR:O	2.73	0.41
25:AZ:194:GLU:HB3	25:AZ:198:LYS:HZ1	1.85	0.41
25:AZ:227:ASP:C	25:AZ:228:VAL:CG2	2.94	0.41
27:B1:62:VAL:HG21	27:B1:67:ILE:HA	2.03	0.41
29:B3:7:LYS:O	29:B3:54:VAL:CA	2.63	0.41
30:B4:47:GLN:HE21	30:B4:47:GLN:HB3	1.73	0.41
31:B5:58:LEU:O	31:B5:59:GLU:HB3	2.20	0.41
32:B6:17:LYS:O	32:B6:18:ARG:HB3	2.20	0.41
34:B8:8:LYS:O	34:B8:12:LYS:HE3	2.20	0.41
36:BA:149:A:C2	36:BA:150:C:N3	2.88	0.41
36:BA:272(J):C:H3'	36:BA:274:G:H5''	2.03	0.41
36:BA:355:G:H2'	36:BA:356:G:H8	1.86	0.41
36:BA:1005:C:H2'	36:BA:1006:C:C5	2.54	0.41
36:BA:1051:G:H2'	36:BA:1052:C:C6	2.56	0.41
36:BA:1192:G:O5'	36:BA:1192:G:C8	2.73	0.41
36:BA:1558:A:H1'	36:BA:1559:G:OP2	2.21	0.41
36:BA:1677:A:C2'	36:BA:1678:G:C8	2.94	0.41
36:BA:1678:G:H22	36:BA:1989:G:H1	1.67	0.41
36:BA:1800:C:OP1	39:BD:264:LYS:HE2	2.21	0.41
36:BA:1801:G:O2'	36:BA:1802:A:H5''	2.20	0.41
36:BA:1829:A:N3	39:BD:15:PHE:HZ	2.17	0.41
36:BA:2050:C:C4	36:BA:2051:A:C6	3.08	0.41
36:BA:2115:G:H5'	36:BA:2167:U:O2'	2.21	0.41
36:BA:2166:G:O2'	36:BA:2167:U:H5'	2.21	0.41
36:BA:2259:G:N2	36:BA:2282:G:C2	2.89	0.41
36:BA:2283:C:C5	36:BA:2389:G:C2'	3.03	0.41
36:BA:2371:G:N2	36:BA:2372:G:C4	2.88	0.41
36:BA:2481:G:O2'	36:BA:2482:G:P	2.78	0.41
36:BA:2732:G:C2'	36:BA:2733:A:H5'	2.51	0.41
36:BA:2754:U:H2'	36:BA:2756:U:P	2.61	0.41
36:BA:2870:C:H2'	36:BA:2871:C:C5'	2.50	0.41
37:BB:117:G:H5'	51:BS:55:ALA:HB1	2.01	0.41
38:BC:6:ARG:CZ	38:BC:34:THR:HB	2.51	0.41
39:BD:134:ARG:NE	39:BD:135:PHE:HE1	2.18	0.41
39:BD:238:GLY:O	39:BD:239:ARG:HB3	2.20	0.41
40:BE:167:VAL:CG1	40:BE:189:PRO:HD2	2.50	0.41
41:BF:117:ARG:CG	41:BF:192:LEU:HD13	2.47	0.41
41:BF:162:LEU:HD12	41:BF:162:LEU:N	2.33	0.41
42:BG:39:ILE:HG22	42:BG:157:ILE:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:46:ALA:HA	42:BG:51:ARG:HB3	2.03	0.41
43:BH:156:ALA:O	43:BH:157:TYR:C	2.63	0.41
48:BP:85:LEU:HD11	48:BP:137:LYS:HD3	2.03	0.41
50:BR:76:VAL:O	50:BR:79:LEU:HB3	2.20	0.41
51:BS:40:ILE:HG22	51:BS:47:THR:HA	2.03	0.41
51:BS:63:THR:C	51:BS:65:VAL:N	2.78	0.41
51:BS:74:ALA:O	51:BS:75:GLU:C	2.62	0.41
54:BV:35:LEU:O	54:BV:36:PRO:C	2.64	0.41
57:BY:12:THR:OG1	57:BY:26:LYS:HA	2.20	0.41
58:BZ:7:ALA:HA	58:BZ:39:VAL:HG12	2.02	0.41
58:BZ:158:PRO:HD2	58:BZ:161:VAL:HB	2.01	0.41
1:CA:15:G:H2'	1:CA:16:A:H8	1.86	0.41
1:CA:130:A:H1'	1:CA:263:A:O2'	2.21	0.41
1:CA:295:C:C2	1:CA:296:U:C6	3.09	0.41
1:CA:404:U:P	4:CD:122:ARG:HD3	2.61	0.41
1:CA:488:C:O2'	1:CA:489:C:H5'	2.21	0.41
1:CA:734:G:H2'	1:CA:735:C:H6	1.84	0.41
1:CA:969:A:H2'	1:CA:970:C:O4'	2.21	0.41
1:CA:1308:U:O2'	1:CA:1309:G:C5'	2.68	0.41
1:CA:1334:G:H5'	1:CA:1335:C:OP2	2.21	0.41
1:CA:1344:C:H2'	1:CA:1345:U:H5'	2.03	0.41
1:CA:1348:U:H5'	1:CA:1348:U:H6	1.86	0.41
1:CA:1422:G:N2	1:CA:1423:G:C4	2.89	0.41
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.21	0.41
2:CB:144:ARG:C	2:CB:146:GLN:N	2.77	0.41
2:CB:179:LYS:C	2:CB:181:PHE:N	2.79	0.41
4:CD:79:PHE:CA	4:CD:93:PHE:HE2	2.33	0.41
6:CF:71:ARG:HG3	6:CF:71:ARG:NH1	2.36	0.41
7:CG:152:ALA:O	7:CG:155:ARG:HG3	2.20	0.41
9:CI:94:ALA:O	9:CI:95:LYS:HB3	2.20	0.41
10:CJ:7:LYS:HG2	10:CJ:71:LEU:HB2	2.03	0.41
10:CJ:24:VAL:C	10:CJ:26:ALA:H	2.27	0.41
10:CJ:89:ASP:O	10:CJ:90:LEU:CB	2.60	0.41
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.85	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.79	0.41
13:CM:54:VAL:O	13:CM:55:ARG:C	2.63	0.41
15:CO:3:ILE:CD1	15:CO:34:LEU:HD21	2.50	0.41
15:CO:17:ARG:HH12	15:CO:77:ARG:NH2	2.19	0.41
18:CR:59:SER:O	18:CR:62:GLU:N	2.53	0.41
25:CZ:122:LEU:HA	25:CZ:125:GLN:HG3	2.02	0.41
25:CZ:284:ASP:OD1	25:CZ:284:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CZ:316:PHE:CD2	25:CZ:400:VAL:HG13	2.55	0.41
26:D0:4:LYS:O	26:D0:5:LYS:C	2.63	0.41
26:D0:48:GLY:CA	26:D0:51:VAL:HB	2.51	0.41
29:D3:40:THR:O	29:D3:41:PRO:C	2.64	0.41
31:D5:6:VAL:O	31:D5:6:VAL:CG1	2.69	0.41
33:D7:15:THR:O	33:D7:16:HIS:CG	2.73	0.41
36:DA:27:G:N2	36:DA:513:A:OP2	2.54	0.41
36:DA:99:U:H4'	36:DA:102:G:H1'	2.01	0.41
36:DA:179:G:N1	36:DA:180:G:C5	2.89	0.41
36:DA:355:G:H2'	36:DA:356:G:H8	1.86	0.41
36:DA:445:C:O2'	36:DA:446:G:O4'	2.38	0.41
36:DA:693:C:N4	36:DA:769:G:H1	2.18	0.41
36:DA:883:G:N2	36:DA:893:C:N3	2.68	0.41
36:DA:889:C:O2'	36:DA:890:A:P	2.78	0.41
36:DA:1192:G:O2'	36:DA:1193:G:H5'	2.21	0.41
36:DA:1223:G:C5	36:DA:1225:G:OP2	2.74	0.41
36:DA:1248:G:O5'	41:DF:92:PRO:HG3	2.20	0.41
36:DA:1431:U:C2'	36:DA:1432:C:C5'	2.98	0.41
36:DA:1478:G:H2'	36:DA:1479:G:C8	2.55	0.41
36:DA:2106:G:C6	36:DA:2184:G:C6	3.08	0.41
36:DA:2126:A:O2'	36:DA:2127:G:OP2	2.39	0.41
36:DA:2166:G:H2'	36:DA:2167:U:C6	2.55	0.41
36:DA:2361:A:H2'	36:DA:2362:G:C8	2.49	0.41
36:DA:2435:A:C4	36:DA:2436:G:C8	3.08	0.41
36:DA:2476:A:H2'	36:DA:2476:A:N3	2.35	0.41
36:DA:2579:C:C4'	40:DE:134:ILE:HG12	2.51	0.41
36:DA:2625:G:H2'	36:DA:2626:C:O4'	2.21	0.41
36:DA:2634:G:O2'	36:DA:2635:C:H5'	2.21	0.41
36:DA:2711:A:OP1	36:DA:2712(A):A:OP1	2.38	0.41
36:DA:2740:A:C6	36:DA:2764:A:C8	3.09	0.41
37:DB:17:C:O2'	37:DB:18:G:H5'	2.20	0.41
39:DD:79:VAL:HG11	39:DD:113:VAL:HA	2.01	0.41
39:DD:91:ARG:HG2	39:DD:91:ARG:NH1	2.27	0.41
39:DD:142:VAL:HG21	39:DD:191:ALA:HB1	2.00	0.41
39:DD:244:ARG:HG2	39:DD:245:PRO:CB	2.50	0.41
40:DE:167:VAL:HG13	40:DE:170:LEU:CD1	2.30	0.41
41:DF:49:ALA:HB1	41:DF:92:PRO:CB	2.50	0.41
42:DG:15:VAL:HG12	42:DG:19:LEU:HD11	2.00	0.41
45:DK:73:UNK:C	45:DK:75:UNK:N	2.79	0.41
46:DN:39:ARG:N	53:DU:67:ALA:HB1	2.35	0.41
46:DN:91:LEU:O	46:DN:95:PRO:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DO:8:LEU:HD22	47:DO:19:ILE:CG1	2.51	0.41
48:DP:71:VAL:H	48:DP:72:PRO:CD	2.33	0.41
48:DP:84:ASN:O	48:DP:86:LYS:N	2.54	0.41
48:DP:147:LEU:O	48:DP:148:LEU:CB	2.69	0.41
49:DQ:77:LYS:HB3	49:DQ:81:VAL:HG11	2.02	0.41
49:DQ:129:THR:HB	49:DQ:130:LYS:H	1.74	0.41
52:DT:15:VAL:CG2	52:DT:16:ARG:N	2.82	0.41
55:DW:32:ALA:O	55:DW:36:LEU:HD23	2.20	0.41
55:DW:72:LYS:CE	55:DW:108:GLY:HA3	2.48	0.41
57:DY:8:LYS:HE2	57:DY:72:VAL:HG23	2.03	0.41
58:DZ:33:LEU:HD11	58:DZ:35:ARG:HB2	2.02	0.41
1:AA:45:U:H2'	1:AA:46:G:C8	2.56	0.41
1:AA:102:G:C6	1:AA:103:C:C5	3.09	0.41
1:AA:246:A:O3'	1:AA:247:G:C4'	2.69	0.41
1:AA:355:C:C4'	1:AA:388:G:HO2'	2.33	0.41
1:AA:677:U:O2'	1:AA:678:U:H5'	2.21	0.41
1:AA:728:A:C5	15:AO:54:ARG:HG3	2.56	0.41
1:AA:754:C:H3'	1:AA:754:C:O2	2.20	0.41
1:AA:1065:U:O4	1:AA:1189:C:H2'	2.20	0.41
1:AA:1148:U:H4'	9:AI:14:VAL:CG1	2.48	0.41
1:AA:1220:G:C4	1:AA:1221:G:C8	3.09	0.41
1:AA:1372:U:H2'	1:AA:1373:G:C5'	2.51	0.41
1:AA:1386:G:N2	1:AA:1387:G:C5	2.88	0.41
2:AB:36:ARG:HA	2:AB:36:ARG:CZ	2.50	0.41
2:AB:107:THR:O	2:AB:108:ILE:C	2.63	0.41
2:AB:144:ARG:O	2:AB:145:LEU:C	2.64	0.41
3:AC:30:ARG:HD3	14:AN:38:GLY:HA3	2.02	0.41
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.20	0.41
3:AC:177:THR:HG22	3:AC:180:ALA:H	1.86	0.41
6:AF:14:LEU:HD12	6:AF:19:LEU:HB2	2.02	0.41
6:AF:48:LEU:HD23	6:AF:48:LEU:HA	1.78	0.41
7:AG:71:PRO:HB3	7:AG:138:LYS:HG3	2.02	0.41
9:AI:46:ALA:CB	9:AI:74:ILE:HG23	2.51	0.41
11:AK:46:GLY:C	11:AK:48:ILE:N	2.78	0.41
13:AM:23:TYR:HB3	13:AM:67:GLU:CB	2.50	0.41
13:AM:75:ALA:O	13:AM:78:ILE:HB	2.21	0.41
13:AM:108:ARG:NH1	13:AM:108:ARG:CG	2.82	0.41
14:AN:15:LYS:O	14:AN:16:PHE:O	2.38	0.41
15:AO:4:THR:C	15:AO:6:GLU:N	2.71	0.41
15:AO:24:SER:O	15:AO:25:THR:C	2.64	0.41
15:AO:64:ARG:C	15:AO:66:LEU:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:85:LEU:HD12	18:AR:86:VAL:N	2.35	0.41
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.18	0.41
20:AT:91:LEU:C	20:AT:93:GLU:H	2.29	0.41
23:AX:22:A:C5	23:AX:23:C:C5	3.08	0.41
25:AZ:374:LEU:C	25:AZ:376:LYS:H	2.27	0.41
27:B1:58:ILE:O	27:B1:59:THR:HG23	2.20	0.41
30:B4:5:ILE:O	42:BG:67:LYS:HG3	2.20	0.41
31:B5:34:PRO:HG3	36:BA:2885:C:O2'	2.20	0.41
33:B7:7:PRO:HA	36:BA:686:G:C8	2.55	0.41
34:B8:32:LEU:HD22	36:BA:2392:A:OP1	2.21	0.41
36:BA:18:C:O3'	53:BU:23:GLY:CA	2.68	0.41
36:BA:84:A:N6	36:BA:102:G:O2'	2.54	0.41
36:BA:179:G:N1	36:BA:180:G:C5	2.89	0.41
36:BA:321:G:C4	41:BF:165:ARG:HD3	2.56	0.41
36:BA:329:G:H4'	36:BA:330:A:OP2	2.21	0.41
36:BA:371:A:C6	36:BA:401:A:C8	3.08	0.41
36:BA:483:A:C1'	57:BY:60:PHE:HZ	2.34	0.41
36:BA:621:A:H2'	36:BA:622:G:C4'	2.51	0.41
36:BA:784:A:N6	39:BD:229:VAL:HG11	2.35	0.41
36:BA:1106:G:C6	36:BA:1107:G:N3	2.89	0.41
36:BA:1206:G:C2	36:BA:1207:C:C6	3.09	0.41
36:BA:1578:U:H2'	36:BA:1579:A:C5'	2.35	0.41
36:BA:1637:A:H4'	36:BA:2711:A:O2'	2.21	0.41
36:BA:1701:A:H8	36:BA:1701:A:H5''	1.86	0.41
36:BA:1714:G:C5	36:BA:1746:G:C6	3.09	0.41
36:BA:1934:C:O2'	36:BA:1974:C:H5''	2.21	0.41
36:BA:2007:C:O5'	36:BA:2007:C:H6	2.02	0.41
36:BA:2086:U:H2'	36:BA:2087:G:C8	2.55	0.41
36:BA:2152:G:N3	36:BA:2153:G:C8	2.89	0.41
36:BA:2261:C:C1'	36:BA:2388:A:H1'	2.51	0.41
36:BA:2415:G:H2'	36:BA:2416:C:C6	2.56	0.41
36:BA:2543:G:H2'	36:BA:2544:G:C8	2.56	0.41
36:BA:2658:C:C5	36:BA:2659:G:N7	2.89	0.41
36:BA:2698:U:C4	36:BA:2699:C:N4	2.88	0.41
36:BA:2856:C:H2'	36:BA:2857:G:C5'	2.51	0.41
39:BD:276:LYS:OXT	39:BD:276:LYS:HD3	2.21	0.41
40:BE:68:ALA:C	40:BE:70:ALA:N	2.79	0.41
42:BG:39:ILE:HG12	42:BG:92:VAL:CG1	2.51	0.41
42:BG:168:GLU:O	42:BG:170:ARG:N	2.53	0.41
43:BH:94:TYR:CE1	43:BH:108:GLY:N	2.89	0.41
43:BH:155:SER:C	43:BH:157:TYR:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:10:GLU:OE2	46:BN:11:PRO:HD2	2.20	0.41
46:BN:67:LEU:O	46:BN:68:GLU:HG3	2.20	0.41
48:BP:16:ARG:CG	48:BP:17:LYS:N	2.84	0.41
49:BQ:42:ILE:O	49:BQ:42:ILE:HG23	2.21	0.41
49:BQ:50:ALA:O	49:BQ:54:MET:HB2	2.20	0.41
49:BQ:63:LYS:HE3	49:BQ:65:PHE:CE1	2.55	0.41
51:BS:14:VAL:O	51:BS:16:ASN:N	2.54	0.41
51:BS:25:ARG:HD2	51:BS:88:ASP:OD1	2.21	0.41
51:BS:40:ILE:HG22	51:BS:46:VAL:O	2.21	0.41
51:BS:89:ARG:HB3	51:BS:92:TYR:HB3	2.03	0.41
52:BT:36:GLU:O	52:BT:38:ASN:N	2.54	0.41
58:BZ:94:GLU:HA	58:BZ:95:PRO:HD2	1.78	0.41
1:CA:71:C:H2'	1:CA:72:C:H6	1.86	0.41
1:CA:81:U:N3	1:CA:83:U:H5	2.19	0.41
1:CA:156:G:H1'	1:CA:166:G:H22	1.85	0.41
1:CA:306:G:C2'	1:CA:307:C:H5'	2.51	0.41
1:CA:322:C:C5	1:CA:323:U:C5	3.09	0.41
1:CA:409:G:OP1	4:CD:22:LYS:O	2.38	0.41
1:CA:505:G:H2'	1:CA:506:G:C8	2.55	0.41
1:CA:510:A:N3	1:CA:543:C:H1'	2.36	0.41
1:CA:583:A:H2'	1:CA:584:G:O4'	2.21	0.41
1:CA:630:G:C3'	1:CA:631:G:H5'	2.51	0.41
1:CA:668:G:O4'	15:CO:49:ASP:HB2	2.21	0.41
1:CA:728:A:C5	15:CO:54:ARG:HG3	2.55	0.41
1:CA:1045:C:O2	1:CA:1045:C:C2'	2.64	0.41
1:CA:1217:C:P	14:CN:9:LYS:HZ1	2.43	0.41
1:CA:1339:A:C2	22:CV:31:A:C4'	3.03	0.41
1:CA:1484:C:H2'	1:CA:1485:U:O4'	2.20	0.41
1:CA:1528:U:H4'	1:CA:1529:G:O5'	2.20	0.41
2:CB:233:SER:O	2:CB:235:SER:N	2.53	0.41
4:CD:59:ARG:HE	4:CD:59:ARG:CA	2.34	0.41
6:CF:56:PRO:C	6:CF:57:GLN:HG3	2.46	0.41
7:CG:22:LEU:HD22	7:CG:62:PHE:HE2	1.85	0.41
7:CG:42:ILE:O	7:CG:43:PHE:C	2.63	0.41
8:CH:9:MET:HE3	8:CH:36:LEU:CD2	2.48	0.41
9:CI:24:GLY:O	9:CI:25:LYS:C	2.62	0.41
10:CJ:8:LEU:HD12	10:CJ:8:LEU:N	2.36	0.41
10:CJ:46:ARG:O	10:CJ:47:PHE:CD1	2.73	0.41
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	2.03	0.41
12:CL:83:VAL:CG1	12:CL:84:LEU:H	2.31	0.41
13:CM:17:VAL:O	13:CM:18:ALA:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:72:ALA:O	13:CM:73:GLU:C	2.63	0.41
19:CS:9:VAL:CG1	19:CS:39:THR:HB	2.50	0.41
22:CV:41:C:C2'	22:CV:42:C:H5'	2.51	0.41
25:CZ:222:LEU:HA	25:CZ:304:LEU:O	2.21	0.41
25:CZ:271:GLU:CG	25:CZ:276:THR:HA	2.43	0.41
26:D0:11:ARG:C	26:D0:12:ASN:OD1	2.63	0.41
26:D0:31:VAL:O	26:D0:32:ARG:C	2.64	0.41
26:D0:58:THR:CG2	26:D0:59:LEU:N	2.84	0.41
27:D1:63:ALA:HB3	27:D1:66:HIS:HB3	2.02	0.41
30:D4:33:VAL:HG13	30:D4:34:GLU:N	2.35	0.41
31:D5:40:LYS:HB3	31:D5:46:CYS:SG	2.61	0.41
32:D6:15:GLU:OE2	32:D6:18:ARG:NH2	2.53	0.41
34:D8:61:LEU:H	34:D8:61:LEU:HG	1.50	0.41
35:D9:1:MET:HA	35:D9:4:ARG:NH2	2.35	0.41
36:DA:84:A:N6	36:DA:102:G:O2'	2.53	0.41
36:DA:271(M):G:O2'	36:DA:271(O):C:H5'	2.21	0.41
36:DA:294:A:C6	36:DA:345:A:N1	2.88	0.41
36:DA:332:A:O2'	36:DA:333:G:P	2.79	0.41
36:DA:831:G:H8	36:DA:831:G:O5'	2.04	0.41
36:DA:954:G:N3	36:DA:2274:A:C2	2.88	0.41
36:DA:1028:A:OP2	36:DA:1126:A:N6	2.52	0.41
36:DA:1242:A:H3'	36:DA:1243:G:C8	2.51	0.41
36:DA:1632:A:O5'	36:DA:1632:A:H8	2.04	0.41
36:DA:1818:U:H2'	39:DD:157:ARG:CD	2.51	0.41
36:DA:1839:G:H8	36:DA:1839:G:H5'	1.86	0.41
36:DA:2077:A:H1'	36:DA:2435:A:C1'	2.51	0.41
36:DA:2152:G:H2'	36:DA:2153:G:H8	1.84	0.41
36:DA:2239:G:H2'	36:DA:2240:C:H6	1.86	0.41
36:DA:2850:A:N6	36:DA:2869:G:H5'	2.36	0.41
37:DB:35:U:H2'	37:DB:36:C:C6	2.55	0.41
37:DB:105:A:C2	37:DB:106:G:H1'	2.56	0.41
39:DD:39:LYS:HD3	39:DD:60:ARG:HB3	2.03	0.41
39:DD:43:ARG:HB3	39:DD:54:ARG:HB3	2.03	0.41
39:DD:208:LYS:HB2	39:DD:209:ALA:H	1.74	0.41
39:DD:242:ARG:HB2	39:DD:243:GLY:H	1.62	0.41
41:DF:107:LYS:C	41:DF:110:LEU:H	2.28	0.41
41:DF:178:PRO:HB3	41:DF:201:VAL:HG11	2.00	0.41
41:DF:182:ASN:OD1	41:DF:185:ASP:CB	2.69	0.41
42:DG:29:TRP:C	42:DG:31:VAL:H	2.27	0.41
42:DG:42:GLY:O	42:DG:88:ILE:HG22	2.21	0.41
42:DG:64:THR:OG1	42:DG:94:LEU:HD21	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:172:LEU:O	42:DG:176:LEU:HD12	2.21	0.41
43:DH:85:LYS:NZ	43:DH:133:VAL:H	1.95	0.41
43:DH:97:ARG:O	43:DH:103:LEU:HD12	2.21	0.41
46:DN:32:THR:C	46:DN:34:LEU:H	2.29	0.41
46:DN:35:ARG:NH2	46:DN:42:TRP:CH2	2.87	0.41
47:DO:50:GLY:C	47:DO:52:VAL:N	2.79	0.41
48:DP:136:GLU:HA	48:DP:136:GLU:OE1	2.20	0.41
49:DQ:34:LEU:HA	49:DQ:130:LYS:O	2.21	0.41
49:DQ:43:THR:HG1	49:DQ:46:GLN:HG3	1.83	0.41
50:DR:63:ARG:HG3	50:DR:63:ARG:HH11	1.86	0.41
53:DU:20:LEU:CD2	53:DU:20:LEU:N	2.76	0.41
53:DU:69:CYS:O	53:DU:74:LEU:HD12	2.21	0.41
53:DU:70:ARG:C	53:DU:72:HIS:N	2.77	0.41
54:DV:58:VAL:CG1	54:DV:59:ALA:N	2.84	0.41
54:DV:58:VAL:HB	54:DV:98:GLU:H	1.85	0.41
57:DY:16:ALA:HA	57:DY:21:LYS:HA	2.03	0.41
1:AA:29:G:O2'	1:AA:295:C:H4'	2.20	0.41
1:AA:32:A:H1'	1:AA:48:C:N4	2.36	0.41
1:AA:39:G:C2'	1:AA:40:C:H5'	2.51	0.41
1:AA:52:G:C6	1:AA:53:A:C5	3.08	0.41
1:AA:106:C:H2'	1:AA:107:G:H5'	2.02	0.41
1:AA:120:A:H2'	1:AA:122:G:N7	2.36	0.41
1:AA:309:G:H1'	1:AA:608:A:C2	2.55	0.41
1:AA:311:C:O2'	1:AA:312:C:H5'	2.21	0.41
1:AA:316:G:OP2	1:AA:351:G:H2'	2.21	0.41
1:AA:510:A:N3	1:AA:543:C:H1'	2.36	0.41
1:AA:596:C:O2	1:AA:596:C:H2'	2.20	0.41
1:AA:642:A:H1'	8:AH:113:SER:HG	1.84	0.41
1:AA:658:G:C6	1:AA:749:C:N4	2.89	0.41
1:AA:704:A:C2'	1:AA:705:U:H5'	2.50	0.41
1:AA:731:G:O2'	1:AA:732:C:H5'	2.20	0.41
1:AA:745:C:H5''	1:AA:851:G:H1'	2.03	0.41
1:AA:763:G:H2'	1:AA:764:C:C6	2.55	0.41
1:AA:827:U:H2'	1:AA:859:A:N1	2.35	0.41
1:AA:833:U:H3	1:AA:853:G:H1	1.67	0.41
1:AA:949:A:C2	1:AA:1233:G:N3	2.89	0.41
1:AA:1004:A:O5'	1:AA:1025:U:C4	2.74	0.41
1:AA:1073:U:O2'	2:AB:104:ASN:ND2	2.54	0.41
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.51	0.41
1:AA:1086:U:H2'	1:AA:1087:G:O5'	2.20	0.41
1:AA:1138:G:C6	1:AA:1140:C:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1190:G:H5''	3:AC:3:ASN:ND2	2.36	0.41
1:AA:1192:C:OP2	3:AC:4:LYS:NZ	2.53	0.41
1:AA:1274:G:O5'	1:AA:1274:G:H8	2.04	0.41
1:AA:1278:U:H5'	1:AA:1279:A:C8	2.56	0.41
1:AA:1282:C:C2	1:AA:1283:G:N7	2.88	0.41
1:AA:1313:U:C4	1:AA:1314:C:C4	3.09	0.41
1:AA:1358:U:H5''	14:AN:33:VAL:O	2.21	0.41
1:AA:1361:G:H2'	1:AA:1362:C:C6	2.56	0.41
1:AA:1394:A:N1	1:AA:1501:C:H5'	2.36	0.41
1:AA:1456:G:N2	1:AA:1457:G:C8	2.88	0.41
2:AB:24:TRP:H	2:AB:24:TRP:CD1	2.39	0.41
2:AB:47:THR:HG22	2:AB:51:LEU:CD1	2.51	0.41
2:AB:155:LEU:C	2:AB:157:ARG:H	2.29	0.41
2:AB:194:PRO:CG	2:AB:195:ASP:H	2.32	0.41
2:AB:208:ILE:O	2:AB:209:ARG:C	2.63	0.41
2:AB:217:ARG:HA	2:AB:220:ASP:OD2	2.20	0.41
2:AB:224:GLN:O	2:AB:226:ARG:N	2.54	0.41
2:AB:239:VAL:O	2:AB:240:GLN:C	2.64	0.41
3:AC:32:LEU:CD2	3:AC:59:ARG:CZ	2.99	0.41
3:AC:142:MET:O	3:AC:144:SER:N	2.54	0.41
3:AC:182:ILE:C	3:AC:183:ASP:O	2.63	0.41
4:AD:10:ARG:NH1	4:AD:40:PRO:HG3	2.36	0.41
4:AD:19:LEU:HD12	4:AD:19:LEU:N	2.35	0.41
4:AD:72:GLU:HA	4:AD:72:GLU:OE2	2.20	0.41
4:AD:106:TYR:HE1	4:AD:113:SER:HA	1.85	0.41
4:AD:145:GLU:HG3	4:AD:184:LYS:HG2	2.03	0.41
5:AE:31:LEU:HB2	5:AE:45:PHE:CD1	2.56	0.41
5:AE:79:GLU:H	5:AE:93:PRO:HD3	1.85	0.41
6:AF:37:VAL:O	6:AF:38:GLU:CG	2.69	0.41
7:AG:105:VAL:O	7:AG:108:ALA:N	2.54	0.41
7:AG:153:HIS:ND1	7:AG:153:HIS:N	2.66	0.41
8:AH:40:ALA:CB	8:AH:45:ILE:HG13	2.50	0.41
8:AH:92:ARG:CB	8:AH:94:TYR:HE1	2.33	0.41
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.86	0.41
9:AI:82:ALA:O	9:AI:85:LEU:CD1	2.68	0.41
10:AJ:7:LYS:O	10:AJ:96:ILE:CA	2.63	0.41
11:AK:117:ASN:HD22	11:AK:117:ASN:HA	1.61	0.41
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	2.03	0.41
13:AM:113:PRO:O	13:AM:114:ARG:C	2.63	0.41
15:AO:15:PHE:O	15:AO:27:VAL:HG22	2.20	0.41
15:AO:17:ARG:HH12	15:AO:77:ARG:NH2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:39:LEU:C	15:AO:41:GLU:H	2.29	0.41
16:AP:3:LYS:HB3	16:AP:65:GLN:O	2.21	0.41
16:AP:60:LEU:HD23	16:AP:64:ALA:HB3	2.03	0.41
17:AQ:16:GLN:HE21	17:AQ:16:GLN:HB2	1.66	0.41
17:AQ:37:LYS:HE3	17:AQ:37:LYS:HB2	1.96	0.41
19:AS:9:VAL:CG1	19:AS:39:THR:HB	2.51	0.41
22:AV:44:G:C2'	22:AV:45:U:H5'	2.51	0.41
22:AV:74:C:N3	36:BA:2252:G:N2	2.65	0.41
24:AY:28:A:O2'	24:AY:29:C:H5'	2.21	0.41
25:AZ:19:HIS:CG	25:AZ:113:MET:HB3	2.55	0.41
25:AZ:85:HIS:C	25:AZ:86:ALA:O	2.61	0.41
25:AZ:135:MET:HE2	25:AZ:150:VAL:HG12	2.02	0.41
25:AZ:201:GLU:O	25:AZ:205:ALA:CB	2.69	0.41
25:AZ:254:GLU:O	25:AZ:304:LEU:HA	2.20	0.41
25:AZ:325:LYS:HG3	25:AZ:331:HIS:CB	2.51	0.41
25:AZ:338:TYR:CE2	25:AZ:340:PRO:HD3	2.56	0.41
25:AZ:355:LEU:HD21	25:AZ:370:PHE:HD2	1.84	0.41
25:AZ:382:GLU:HA	25:AZ:400:VAL:CG1	2.51	0.41
27:B1:5:CYS:O	27:B1:9:GLY:HA2	2.21	0.41
29:B3:18:ASP:HB2	36:BA:850:C:C4'	2.43	0.41
30:B4:12:ALA:HB2	30:B4:29:PRO:HA	2.03	0.41
32:B6:32:ASN:CG	32:B6:33:LYS:N	2.75	0.41
32:B6:45:LYS:O	32:B6:46:HIS:CB	2.69	0.41
32:B6:53:LYS:O	32:B6:54:ILE:HG22	2.21	0.41
34:B8:53:PRO:C	34:B8:55:ALA:N	2.74	0.41
35:B9:9:ARG:HH11	35:B9:9:ARG:HB2	1.85	0.41
36:BA:65:C:O2'	36:BA:66:C:H5'	2.21	0.41
36:BA:184:C:H2'	36:BA:185:U:C6	2.55	0.41
36:BA:244:A:O2'	48:BP:74:GLU:N	2.54	0.41
36:BA:267:C:H2'	36:BA:268:C:C6	2.55	0.41
36:BA:271(U):G:C2'	36:BA:271(V):G:H5'	2.51	0.41
36:BA:377:C:C2	36:BA:398:G:N1	2.89	0.41
36:BA:412:A:N3	36:BA:412:A:H2'	2.36	0.41
36:BA:460:A:H1'	36:BA:470:A:N6	2.36	0.41
36:BA:615:G:C6	36:BA:616:G:C6	3.08	0.41
36:BA:752:A:H4'	36:BA:753:C:O5'	2.21	0.41
36:BA:1037:G:C2	36:BA:1119:C:O2	2.74	0.41
36:BA:1106:G:C2	36:BA:1107:G:H1'	2.55	0.41
36:BA:1186:G:H2'	36:BA:1187:G:C5'	2.50	0.41
36:BA:1227:G:O2'	36:BA:1228:G:H5'	2.21	0.41
36:BA:1256:G:C2	36:BA:1257:C:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1268:A:C4	36:BA:1269:A:C8	3.09	0.41
36:BA:1309:G:H1	36:BA:1605:C:N4	2.07	0.41
36:BA:1422:G:O2'	36:BA:1423:G:H5'	2.21	0.41
36:BA:1641:A:H2'	36:BA:1642:G:O4'	2.20	0.41
36:BA:1643:G:C2	36:BA:1644:C:C6	3.09	0.41
36:BA:1694:C:C1'	36:BA:1695:G:N2	2.82	0.41
36:BA:1773:A:C8	36:BA:1829:A:C8	3.09	0.41
36:BA:1779:U:H2'	36:BA:1783:A:H62	1.85	0.41
36:BA:1809:A:H2'	36:BA:1810:A:H8	1.81	0.41
36:BA:1829:A:N3	39:BD:15:PHE:CZ	2.89	0.41
36:BA:1886:C:O2'	36:BA:1887:C:H5'	2.21	0.41
36:BA:2000:G:O2'	36:BA:2689:U:C5	2.68	0.41
36:BA:2057:A:H2'	36:BA:2058:A:C8	2.56	0.41
36:BA:2077:A:H1'	36:BA:2435:A:C1'	2.50	0.41
36:BA:2103:C:H2'	36:BA:2104:G:H5''	2.02	0.41
36:BA:2104:G:N1	36:BA:2105:C:N4	2.68	0.41
36:BA:2134:A:C2	36:BA:2135:A:N7	2.89	0.41
36:BA:2305:A:O2'	42:BG:136:ARG:CG	2.69	0.41
36:BA:2333:A:O4'	36:BA:2335:A:C4	2.74	0.41
36:BA:2468:G:C6	36:BA:2481:G:C4	3.09	0.41
36:BA:2485:G:C2'	36:BA:2486:G:H5'	2.51	0.41
36:BA:2606:C:O5'	36:BA:2606:C:H6	2.04	0.41
36:BA:2716:U:HO2'	36:BA:2717:G:H5'	1.82	0.41
37:BB:72:G:H1'	37:BB:106:G:N2	2.35	0.41
38:BC:20:TYR:H	38:BC:20:TYR:HD1	1.62	0.41
38:BC:100:ILE:H	38:BC:100:ILE:HG13	1.63	0.41
38:BC:110:PHE:O	38:BC:111:ASP:CB	2.69	0.41
38:BC:124:GLY:CA	38:BC:128:GLY:HA3	2.46	0.41
38:BC:151:GLU:HG2	38:BC:151:GLU:O	2.21	0.41
39:BD:79:VAL:HB	39:BD:114:GLY:H	1.86	0.41
39:BD:130:ALA:C	39:BD:131:LEU:CG	2.94	0.41
39:BD:247:ALA:HA	39:BD:254:THR:HG22	2.03	0.41
39:BD:248:SER:HG	39:BD:252:TRP:NE1	2.19	0.41
39:BD:267:SER:C	39:BD:269:PHE:N	2.78	0.41
40:BE:7:VAL:HG23	40:BE:193:GLY:O	2.20	0.41
40:BE:24:THR:HB	40:BE:184:VAL:HG23	2.01	0.41
40:BE:62:PRO:O	40:BE:63:LEU:C	2.62	0.41
40:BE:73:GLU:OE2	40:BE:73:GLU:N	2.54	0.41
40:BE:132:HIS:CD2	40:BE:135:HIS:NE2	2.88	0.41
41:BF:42:ALA:O	41:BF:45:ARG:HG3	2.21	0.41
41:BF:59:TYR:CD1	41:BF:78:ILE:HB	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:110:LEU:C	41:BF:112:MET:N	2.78	0.41
41:BF:126:VAL:HG11	41:BF:142:TRP:CH2	2.56	0.41
42:BG:43:LEU:HB3	42:BG:45:GLU:CG	2.38	0.41
42:BG:60:LEU:CD2	42:BG:63:ILE:HD11	2.45	0.41
42:BG:67:LYS:HA	42:BG:68:PRO:HD3	1.78	0.41
42:BG:96:ARG:H	42:BG:99:MET:HE2	1.86	0.41
43:BH:24:VAL:CG1	43:BH:25:LYS:N	2.84	0.41
43:BH:52:VAL:HG12	43:BH:65:HIS:ND1	2.36	0.41
43:BH:68:THR:HG22	43:BH:72:ILE:CG1	2.50	0.41
43:BH:97:ARG:NH2	43:BH:99:VAL:HG21	2.33	0.41
43:BH:98:LEU:HG	43:BH:98:LEU:O	2.21	0.41
44:BJ:55:UNK:O	44:BJ:84:UNK:N	2.54	0.41
44:BJ:127:UNK:O	44:BJ:131:UNK:N	2.54	0.41
45:BK:10:UNK:O	45:BK:55:UNK:O	2.38	0.41
46:BN:2:LYS:NZ	53:BU:95:LEU:HD21	2.35	0.41
46:BN:35:ARG:NH2	46:BN:42:TRP:CH2	2.88	0.41
46:BN:48:MET:CE	46:BN:49:GLY:H	2.34	0.41
46:BN:57:ALA:O	46:BN:58:ASP:C	2.64	0.41
46:BN:87:LEU:O	46:BN:88:GLU:C	2.63	0.41
46:BN:103:VAL:O	46:BN:105:GLY:N	2.53	0.41
47:BO:2:ILE:HD13	47:BO:2:ILE:HA	1.75	0.41
47:BO:120:GLU:OE1	47:BO:122:LEU:HD11	2.20	0.41
49:BQ:31:ASP:C	49:BQ:32:TYR:CD1	2.99	0.41
49:BQ:39:PRO:O	49:BQ:40:ALA:HB2	2.21	0.41
49:BQ:48:GLU:HG3	49:BQ:51:ARG:CD	2.51	0.41
50:BR:25:ALA:HB1	50:BR:51:LEU:CD2	2.51	0.41
50:BR:42:LYS:O	50:BR:45:ARG:CB	2.69	0.41
50:BR:79:LEU:HD13	50:BR:80:PHE:N	2.36	0.41
51:BS:77:ALA:HA	51:BS:80:LEU:CD1	2.49	0.41
52:BT:66:VAL:HG12	52:BT:71:GLY:HA2	2.02	0.41
52:BT:81:PRO:HD2	52:BT:82:LEU:HD12	2.03	0.41
52:BT:107:ASP:CG	52:BT:109:GLU:HG3	2.45	0.41
53:BU:83:LEU:CD1	53:BU:83:LEU:N	2.83	0.41
55:BW:12:ILE:HG23	55:BW:17:VAL:HG22	2.02	0.41
55:BW:50:VAL:HG22	55:BW:105:VAL:HG21	2.03	0.41
55:BW:64:MET:CB	55:BW:69:LEU:HD21	2.51	0.41
55:BW:104:THR:C	55:BW:105:VAL:CG2	2.93	0.41
56:BX:68:ARG:HG3	56:BX:69:TYR:CE1	2.55	0.41
57:BY:13:VAL:CG1	57:BY:14:LEU:N	2.69	0.41
57:BY:50:ARG:HG2	57:BY:58:GLY:CA	2.51	0.41
58:BZ:118:GLN:O	58:BZ:172:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:8:A:N6	4:CD:205:GLU:O	2.52	0.41
1:CA:59:A:H3'	1:CA:60:A:C5'	2.51	0.41
1:CA:127:G:H2'	1:CA:128:G:C8	2.56	0.41
1:CA:151:A:C2'	1:CA:152:A:H5'	2.51	0.41
1:CA:194:C:H5''	20:CT:65:LYS:CE	2.50	0.41
1:CA:218:C:C4	1:CA:219:C:N4	2.89	0.41
1:CA:302:G:H2'	1:CA:303:A:C8	2.56	0.41
1:CA:320:C:H2'	1:CA:321:A:C8	2.56	0.41
1:CA:321:A:O2'	1:CA:322:C:C5'	2.63	0.41
1:CA:347:G:O2'	1:CA:348:G:H8	2.03	0.41
1:CA:377:G:H5'	16:CP:5:ARG:NH1	2.36	0.41
1:CA:439:A:C8	1:CA:496:A:N1	2.89	0.41
1:CA:544:G:C6	1:CA:545:C:C2	3.09	0.41
1:CA:722:A:O3'	1:CA:723:U:H2'	2.20	0.41
1:CA:773:G:H2'	1:CA:774:G:H8	1.85	0.41
1:CA:782:A:H2'	1:CA:783:C:H5'	2.02	0.41
1:CA:796:C:O2'	1:CA:797:C:H5'	2.20	0.41
1:CA:954:G:O2'	13:CM:120:LYS:HD2	2.21	0.41
1:CA:990:C:C2	1:CA:1216:G:C2	3.09	0.41
1:CA:1030(A):G:C1'	1:CA:1031:G:H22	2.34	0.41
1:CA:1157:A:O2'	1:CA:1158:C:P	2.79	0.41
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.56	0.41
1:CA:1290:G:H2'	1:CA:1290:G:N3	2.36	0.41
1:CA:1311:G:C6	1:CA:1312:G:N7	2.89	0.41
1:CA:1312:G:O2'	1:CA:1313:U:H5'	2.20	0.41
1:CA:1431:C:C2	1:CA:1470:G:N2	2.88	0.41
1:CA:1505:G:H5''	1:CA:1506:U:H5''	2.03	0.41
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	2.02	0.41
2:CB:144:ARG:O	2:CB:145:LEU:C	2.63	0.41
2:CB:230:VAL:HB	2:CB:231:GLU:H	1.66	0.41
3:CC:43:LEU:HD21	3:CC:91:LEU:HD21	2.03	0.41
3:CC:95:THR:HG22	3:CC:95:THR:O	2.20	0.41
3:CC:113:ALA:N	3:CC:202:ILE:HD12	2.36	0.41
4:CD:62:GLN:NE2	4:CD:65:ARG:HH21	2.19	0.41
4:CD:101:LEU:HD21	4:CD:126:ILE:HG21	2.03	0.41
4:CD:103:ASN:OD1	4:CD:114:ARG:NH2	2.54	0.41
4:CD:104:VAL:O	4:CD:105:VAL:C	2.64	0.41
4:CD:108:LEU:C	4:CD:165:MET:HE1	2.46	0.41
4:CD:155:LEU:HB2	4:CD:158:ILE:CG1	2.51	0.41
5:CE:40:ARG:HG2	5:CE:40:ARG:NH1	2.36	0.41
5:CE:67:VAL:CG2	5:CE:68:GLU:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:22:GLU:O	6:CF:25:ILE:N	2.54	0.41
7:CG:35:LYS:C	7:CG:37:ASN:N	2.77	0.41
8:CH:67:PRO:O	8:CH:76:PRO:HB3	2.21	0.41
8:CH:82:HIS:O	8:CH:83:ILE:HB	2.21	0.41
8:CH:93:VAL:C	8:CH:94:TYR:CD1	2.99	0.41
8:CH:100:ILE:HG23	8:CH:101:PRO:CD	2.50	0.41
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.48	0.41
9:CI:94:ALA:O	9:CI:95:LYS:CB	2.68	0.41
9:CI:100:GLY:C	9:CI:102:LEU:H	2.29	0.41
11:CK:14:VAL:C	11:CK:16:SER:H	2.29	0.41
11:CK:57:THR:HG23	11:CK:60:ALA:N	2.32	0.41
12:CL:67:THR:HB	12:CL:96:VAL:HG13	2.02	0.41
12:CL:101:VAL:O	12:CL:104:VAL:HG23	2.20	0.41
13:CM:44:ARG:O	13:CM:46:LYS:N	2.53	0.41
13:CM:56:LEU:HD13	13:CM:57:ARG:N	2.34	0.41
13:CM:63:THR:O	13:CM:64:TRP:C	2.64	0.41
13:CM:86:CYS:HA	19:CS:73:GLU:C	2.46	0.41
14:CN:8:GLU:O	14:CN:10:ALA:N	2.53	0.41
15:CO:3:ILE:H	15:CO:3:ILE:HG12	1.48	0.41
15:CO:53:HIS:O	15:CO:54:ARG:C	2.63	0.41
15:CO:82:ILE:CG2	15:CO:83:GLU:N	2.75	0.41
17:CQ:68:ARG:O	17:CQ:69:LYS:C	2.63	0.41
19:CS:31:ILE:O	19:CS:31:ILE:HG12	2.21	0.41
19:CS:48:THR:HG23	19:CS:61:TYR:HA	2.03	0.41
20:CT:33:ILE:CG1	20:CT:62:LEU:HD22	2.48	0.41
20:CT:65:LYS:O	20:CT:68:LYS:HB2	2.20	0.41
22:CV:54:U:C2'	22:CV:55:U:H5'	2.51	0.41
22:CW:49:C:O2'	22:CW:50:U:H6	2.03	0.41
24:CY:77:THR:HG22	25:CZ:239:THR:HB	2.03	0.41
25:CZ:67:HIS:CE1	25:CZ:80:VAL:HG22	2.56	0.41
25:CZ:83:PRO:O	25:CZ:84:GLY:C	2.63	0.41
25:CZ:89:ILE:HA	25:CZ:92:MET:HB3	2.03	0.41
25:CZ:135:MET:HE2	25:CZ:150:VAL:HG12	2.03	0.41
25:CZ:322:VAL:N	25:CZ:366:ASP:O	2.52	0.41
25:CZ:401:THR:HG22	25:CZ:402:LYS:N	2.35	0.41
27:D1:84:GLY:O	27:D1:86:SER:N	2.54	0.41
28:D2:66:GLU:HG3	28:D2:67:LYS:N	2.36	0.41
29:D3:48:GLU:C	29:D3:50:VAL:H	2.29	0.41
32:D6:10:LEU:N	32:D6:10:LEU:CD2	2.81	0.41
33:D7:1:MET:HE1	36:DA:752:A:H3'	2.03	0.41
35:D9:19:ARG:C	35:D9:21:GLY:N	2.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:D9:31:LYS:O	35:D9:32:HIS:HD2	2.02	0.41
36:DA:271(W):G:C6	36:DA:271(X):G:N1	2.88	0.41
36:DA:405:U:O2	36:DA:405:U:O4'	2.39	0.41
36:DA:537:C:N4	36:DA:556:G:N1	2.58	0.41
36:DA:593:G:H1	36:DA:664:C:H42	1.67	0.41
36:DA:603:A:H4'	36:DA:604:G:O5'	2.21	0.41
36:DA:627:A:OP1	36:DA:627:A:H8	2.04	0.41
36:DA:645:C:O2	36:DA:645:C:C3'	2.69	0.41
36:DA:654(D):G:H2'	36:DA:654(E):G:C8	2.55	0.41
36:DA:728:G:C2	36:DA:730:C:C2	3.08	0.41
36:DA:733:G:O6	36:DA:761:A:C5	2.74	0.41
36:DA:734:A:H2'	36:DA:735:A:O4'	2.20	0.41
36:DA:748:G:H3'	36:DA:750:A:OP2	2.20	0.41
36:DA:758:C:O2	36:DA:758:C:H2'	2.20	0.41
36:DA:769:G:O4'	36:DA:1379:A:C6	2.73	0.41
36:DA:775:G:C4	36:DA:794:G:C8	3.09	0.41
36:DA:806:C:H2'	36:DA:807:U:C6	2.56	0.41
36:DA:1044:G:N2	36:DA:1111:A:C2	2.89	0.41
36:DA:1049:C:H2'	36:DA:1050:A:H8	1.85	0.41
36:DA:1070:A:N6	36:DA:1096:A:C2	2.88	0.41
36:DA:1155:A:P	53:DU:55:ARG:HD2	2.61	0.41
36:DA:1186:G:H2'	36:DA:1187:G:C5'	2.51	0.41
36:DA:1198:U:O2	36:DA:1249:U:H1'	2.21	0.41
36:DA:1201:C:N4	36:DA:1244:G:H1	2.18	0.41
36:DA:1223:G:N2	36:DA:1226:A:OP2	2.40	0.41
36:DA:1301:A:HO2'	36:DA:1302:A:P	2.43	0.41
36:DA:1427:A:C1'	36:DA:1428:C:C5	3.04	0.41
36:DA:1435:G:H2'	36:DA:1436:G:C8	2.55	0.41
36:DA:1477:A:C2	36:DA:1478:G:C4	3.09	0.41
36:DA:1528:A:N6	36:DA:1544:A:N1	2.69	0.41
36:DA:1625:C:H2'	36:DA:1626:G:C8	2.56	0.41
36:DA:1755:A:C2'	36:DA:1756:G:H5'	2.50	0.41
36:DA:1787:A:H4'	36:DA:2589:A:H4'	2.01	0.41
36:DA:1789:A:H2'	36:DA:1790:C:H6	1.86	0.41
36:DA:1804:C:H2'	36:DA:1805:U:H6	1.85	0.41
36:DA:1886:C:O2'	36:DA:1887:C:H5'	2.21	0.41
36:DA:1909:C:C2'	36:DA:1910:G:H5'	2.50	0.41
36:DA:2048:G:H5'	36:DA:2823:A:N1	2.36	0.41
36:DA:2071:A:H2	36:DA:2441:C:C2	2.39	0.41
36:DA:2152:G:C4	36:DA:2153:G:C8	3.08	0.41
36:DA:2161:C:O2'	36:DA:2162:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2330:G:O2'	36:DA:2331:G:H5'	2.21	0.41
36:DA:2495:G:P	49:DQ:82:ARG:HH21	2.44	0.41
36:DA:2588:G:O6	36:DA:2607:G:C6	2.74	0.41
36:DA:2667:C:H2'	36:DA:2668:G:C8	2.55	0.41
36:DA:2820:A:C4'	50:DR:5:LYS:HE2	2.51	0.41
36:DA:2838:G:H2'	36:DA:2839:G:C8	2.56	0.41
37:DB:16:G:O2'	37:DB:17:C:O5'	2.34	0.41
37:DB:37:C:H2'	37:DB:38:C:O4'	2.21	0.41
38:DC:61:THR:O	38:DC:62:VAL:HB	2.20	0.41
38:DC:100:ILE:HD13	38:DC:126:LYS:HB2	2.02	0.41
39:DD:17:THR:OG1	39:DD:205:VAL:N	2.43	0.41
39:DD:132:PRO:O	39:DD:136:ILE:HD13	2.20	0.41
39:DD:147:LEU:HD21	39:DD:183:ARG:HH12	1.85	0.41
39:DD:186:HIS:O	39:DD:189:CYS:SG	2.79	0.41
40:DE:4:ILE:HG22	40:DE:96:PHE:HE2	1.86	0.41
40:DE:7:VAL:CG1	40:DE:27:LEU:HB3	2.50	0.41
40:DE:51:PHE:O	40:DE:52:LEU:C	2.64	0.41
40:DE:93:VAL:HG21	40:DE:180:ASN:HA	2.01	0.41
40:DE:163:GLU:O	40:DE:165:VAL:HG23	2.21	0.41
40:DE:199:ARG:HB3	40:DE:199:ARG:HH11	1.85	0.41
41:DF:31:HIS:O	41:DF:34:TRP:N	2.53	0.41
41:DF:42:ALA:O	41:DF:45:ARG:HG3	2.21	0.41
42:DG:44:GLY:O	42:DG:47:LYS:CD	2.69	0.41
43:DH:67:LEU:HG	43:DH:71:LEU:CG	2.51	0.41
45:DK:24:UNK:C	45:DK:26:UNK:N	2.84	0.41
46:DN:21:LYS:O	46:DN:61:ARG:HB2	2.18	0.41
46:DN:30:ILE:O	46:DN:34:LEU:HD23	2.21	0.41
46:DN:71:ILE:CG2	46:DN:72:TYR:N	2.84	0.41
46:DN:78:TYR:N	46:DN:78:TYR:CD1	2.88	0.41
46:DN:91:LEU:CD2	46:DN:98:VAL:HG21	2.51	0.41
47:DO:13:ASN:C	47:DO:15:GLY:N	2.79	0.41
47:DO:78:ARG:O	52:DT:73:GLU:N	2.53	0.41
48:DP:97:PRO:HD3	48:DP:126:VAL:O	2.21	0.41
48:DP:125:VAL:HG13	48:DP:125:VAL:O	2.21	0.41
49:DQ:1:MET:HE3	49:DQ:2:LEU:HB3	2.03	0.41
49:DQ:75:THR:HG21	49:DQ:87:LYS:HZ2	1.83	0.41
51:DS:68:GLN:O	51:DS:70:GLY:N	2.54	0.41
51:DS:74:ALA:O	51:DS:75:GLU:C	2.63	0.41
51:DS:106:ARG:HH11	51:DS:106:ARG:CB	2.34	0.41
53:DU:61:TRP:CZ3	53:DU:94:ASN:HA	2.56	0.41
54:DV:58:VAL:HG12	54:DV:97:LYS:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DV:79:VAL:O	54:DV:79:VAL:HG12	2.21	0.41
55:DW:6:ILE:HG12	55:DW:104:THR:CG2	2.47	0.41
55:DW:82:LEU:HD12	55:DW:82:LEU:N	2.36	0.41
56:DX:63:LYS:HB2	56:DX:63:LYS:HE3	1.82	0.41
56:DX:70:LEU:HD23	56:DX:70:LEU:C	2.45	0.41
58:DZ:10:ARG:HB2	58:DZ:37:VAL:HA	2.03	0.41
58:DZ:10:ARG:NE	58:DZ:37:VAL:O	2.54	0.41
58:DZ:43:GLU:O	58:DZ:44:PHE:C	2.64	0.41
1:AA:507:C:H2'	1:AA:508:C:H5	1.86	0.41
1:AA:545:C:O2'	1:AA:546:G:H5'	2.20	0.41
1:AA:657:G:C2	1:AA:750:G:C5	3.08	0.41
1:AA:833:U:H2'	1:AA:834:C:H6	1.85	0.41
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.51	0.41
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.84	0.41
1:AA:1231:G:C5	1:AA:1232:U:C5	3.09	0.41
1:AA:1399:C:C4	1:AA:1502:A:N6	2.88	0.41
1:AA:1492:A:C6	1:AA:1493:A:C6	3.09	0.41
2:AB:26:PRO:O	2:AB:28:PHE:N	2.50	0.41
2:AB:86:GLU:C	2:AB:88:ALA:N	2.78	0.41
2:AB:140:HIS:HA	2:AB:143:GLU:OE1	2.21	0.41
2:AB:200:ILE:HG22	2:AB:201:ILE:H	1.85	0.41
3:AC:5:ILE:HG12	3:AC:10:PHE:HB2	2.03	0.41
4:AD:79:PHE:CD2	4:AD:207:TYR:HD1	2.39	0.41
4:AD:150:GLU:C	4:AD:152:SER:N	2.77	0.41
5:AE:127:ASN:HA	5:AE:128:PRO:HD3	1.76	0.41
5:AE:131:ILE:HD13	5:AE:131:ILE:HA	1.93	0.41
5:AE:143:ARG:NH1	8:AH:77:GLU:OE1	2.53	0.41
7:AG:150:ALA:O	7:AG:153:HIS:HE1	2.04	0.41
8:AH:34:GLU:O	8:AH:35:ILE:O	2.39	0.41
9:AI:15:ALA:HA	9:AI:65:VAL:HA	2.03	0.41
11:AK:57:THR:HG23	11:AK:60:ALA:N	2.32	0.41
11:AK:57:THR:CG2	11:AK:60:ALA:HB3	2.51	0.41
12:AL:32:PHE:O	12:AL:33:ARG:HB2	2.21	0.41
12:AL:52:LEU:HD23	12:AL:52:LEU:N	2.36	0.41
12:AL:83:VAL:CG1	12:AL:84:LEU:H	2.33	0.41
13:AM:28:ALA:C	13:AM:30:ALA:H	2.28	0.41
14:AN:3:ARG:HE	14:AN:3:ARG:HB3	1.63	0.41
16:AP:35:LYS:HE2	16:AP:37:GLY:CA	2.51	0.41
19:AS:32:LYS:H	19:AS:32:LYS:HG3	1.59	0.41
19:AS:43:GLU:C	19:AS:45:VAL:HG22	2.45	0.41
22:AV:3:C:C2	22:AV:71:G:N2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:66:U:O2'	22:AV:67:C:H5'	2.20	0.41
22:AW:38:A:H2'	22:AW:39:U:C4'	2.51	0.41
24:AY:53:G:O2'	24:AY:54:5MU:H5''	2.21	0.41
25:AZ:108:ALA:H	25:AZ:137:LYS:HB2	1.86	0.41
25:AZ:116:THR:HG22	25:AZ:120:ILE:CD1	2.50	0.41
25:AZ:136:ASN:OD1	25:AZ:174:SER:HA	2.21	0.41
25:AZ:137:LYS:O	25:AZ:140:MET:HB2	2.21	0.41
25:AZ:322:VAL:HB	25:AZ:366:ASP:O	2.21	0.41
25:AZ:354:GLN:O	25:AZ:354:GLN:CG	2.68	0.41
26:B0:16:SER:O	26:B0:17:GLN:C	2.63	0.41
30:B4:6:HIS:CA	42:BG:67:LYS:CE	2.98	0.41
32:B6:5:VAL:HG21	36:BA:2283:C:H5'	2.03	0.41
32:B6:45:LYS:N	32:B6:45:LYS:HD2	2.18	0.41
34:B8:6:THR:CG2	34:B8:63:PRO:HD3	2.51	0.41
36:BA:142(A):C:C2'	36:BA:143:G:H5'	2.51	0.41
36:BA:221:A:C4	36:BA:266:G:N7	2.89	0.41
36:BA:271(M):G:O2'	36:BA:271(O):C:H5'	2.21	0.41
36:BA:460:A:H3'	36:BA:461:C:C6	2.56	0.41
36:BA:472:A:O2'	36:BA:508:G:N2	2.51	0.41
36:BA:592:G:H2'	36:BA:592:G:N3	2.36	0.41
36:BA:679:C:H2'	36:BA:680:G:C8	2.56	0.41
36:BA:705:A:H2'	36:BA:706:A:C8	2.56	0.41
36:BA:764:A:C3'	36:BA:765:G:H5'	2.47	0.41
36:BA:816:C:H2'	36:BA:817:C:C6	2.56	0.41
36:BA:1052:C:O2'	36:BA:1053:C:P	2.79	0.41
36:BA:1138:G:H8	36:BA:1138:G:O5'	2.03	0.41
36:BA:1358:G:N7	36:BA:1371:G:C6	2.89	0.41
36:BA:1478:G:H2'	36:BA:1479:G:C8	2.55	0.41
36:BA:1518:U:H2'	36:BA:1519:G:C4'	2.50	0.41
36:BA:1551:C:O2'	36:BA:1552:G:H5'	2.21	0.41
36:BA:1599:C:C2	36:BA:1600:C:C5	3.09	0.41
36:BA:1924:C:H2'	36:BA:1925:C:C6	2.51	0.41
36:BA:2082:A:O2'	36:BA:2083:G:H5'	2.20	0.41
36:BA:2282:G:C5'	36:BA:2283:C:O5'	2.69	0.41
36:BA:2352:A:C4	36:BA:2366:A:N1	2.89	0.41
36:BA:2394:C:OP1	48:BP:63:PRO:CD	2.69	0.41
36:BA:2605:U:H2'	36:BA:2606:C:C5	2.55	0.41
36:BA:2646:C:OP2	36:BA:2732:G:O2'	2.38	0.41
36:BA:2746:U:H2'	36:BA:2747:G:C8	2.55	0.41
39:BD:223:GLY:O	39:BD:225:ALA:N	2.54	0.41
41:BF:65:TRP:CZ3	41:BF:72:ARG:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:105:VAL:O	41:BF:105:VAL:HG12	2.21	0.41
42:BG:21:ARG:NH2	42:BG:22:ARG:CA	2.71	0.41
42:BG:174:GLU:CA	42:BG:180:PHE:HE1	2.29	0.41
43:BH:46:GLU:O	43:BH:47:GLU:C	2.63	0.41
43:BH:65:HIS:CE1	43:BH:69:ARG:NH2	2.89	0.41
43:BH:98:LEU:CB	43:BH:125:VAL:CG2	2.99	0.41
46:BN:2:LYS:O	46:BN:4:TYR:CZ	2.74	0.41
46:BN:16:ILE:HD11	46:BN:139:GLU:N	2.34	0.41
46:BN:36:GLY:O	46:BN:42:TRP:HE3	2.04	0.41
50:BR:37:THR:O	50:BR:41:ALA:HB2	2.20	0.41
52:BT:106:SER:O	52:BT:107:ASP:OD1	2.38	0.41
53:BU:55:ARG:HG2	53:BU:58:ARG:NE	2.36	0.41
54:BV:35:LEU:N	54:BV:35:LEU:CD2	2.81	0.41
54:BV:71:LEU:HD21	54:BV:84:LYS:HG2	2.01	0.41
55:BW:20:VAL:CG2	55:BW:47:VAL:HG21	2.46	0.41
56:BX:8:ILE:CD1	56:BX:43:VAL:HG22	2.46	0.41
56:BX:12:VAL:HG12	56:BX:27:THR:N	2.36	0.41
57:BY:15:VAL:HG12	57:BY:17:SER:H	1.86	0.41
58:BZ:127:LYS:HG3	58:BZ:162:GLU:CG	2.51	0.41
1:CA:286:G:H2'	1:CA:287:U:O4'	2.21	0.41
1:CA:431:A:O2'	1:CA:432:A:H5'	2.19	0.41
1:CA:458:C:N4	1:CA:474:G:N1	2.69	0.41
1:CA:471:G:O2'	1:CA:472:A:H5'	2.21	0.41
1:CA:547:A:O2'	1:CA:548:G:O4'	2.39	0.41
1:CA:826:C:H5''	8:CH:12:ARG:NH1	2.35	0.41
1:CA:880:C:P	12:CL:12:ARG:HH11	2.43	0.41
1:CA:941:G:C2	1:CA:942:G:C8	3.09	0.41
1:CA:960:U:O2	1:CA:960:U:C2'	2.69	0.41
1:CA:1003:G:N2	1:CA:1038:C:N3	2.68	0.41
1:CA:1015:A:H8	1:CA:1015:A:O5'	2.03	0.41
1:CA:1073:U:H3	1:CA:1102:A:H61	1.69	0.41
1:CA:1166:G:C2	1:CA:1171:G:N1	2.89	0.41
1:CA:1202:G:C4	14:CN:42:ILE:HG21	2.56	0.41
1:CA:1226:C:OP2	13:CM:103:THR:HG21	2.20	0.41
1:CA:1280:A:O2'	1:CA:1281:U:OP1	2.31	0.41
1:CA:1438:G:C4	1:CA:1439:C:C5	3.09	0.41
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.55	0.41
2:CB:142:LEU:O	2:CB:142:LEU:HD23	2.21	0.41
3:CC:164:ARG:NH2	3:CC:166:GLU:OE2	2.54	0.41
3:CC:181:ASN:HD21	3:CC:204:LEU:CD1	2.27	0.41
4:CD:107:ARG:NH2	4:CD:194:LEU:CD1	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:79:GLU:HB3	5:CE:93:PRO:HD3	2.03	0.41
7:CG:99:LEU:O	7:CG:100:ALA:C	2.65	0.41
9:CI:4:TYR:O	9:CI:18:PHE:HA	2.20	0.41
10:CJ:38:ILE:O	10:CJ:38:ILE:HG13	2.21	0.41
12:CL:115:LYS:O	12:CL:116:SER:C	2.64	0.41
13:CM:49:THR:O	13:CM:50:GLU:C	2.64	0.41
13:CM:52:GLU:CA	13:CM:55:ARG:HB3	2.38	0.41
19:CS:40:ILE:CB	19:CS:67:VAL:HA	2.51	0.41
20:CT:38:LYS:O	20:CT:40:ALA:N	2.54	0.41
20:CT:96:GLY:O	20:CT:97:ALA:CB	2.69	0.41
22:CV:49:C:HO2'	22:CV:50:U:P	2.44	0.41
24:CY:53:G:O2'	24:CY:54:5MU:H5''	2.21	0.41
24:CY:65:C:H4'	25:CZ:341:GLN:HG2	2.03	0.41
25:CZ:126:VAL:O	25:CZ:127:GLY:C	2.64	0.41
25:CZ:186:PRO:O	25:CZ:187:LYS:CG	2.66	0.41
25:CZ:375:ILE:C	25:CZ:376:LYS:HG3	2.46	0.41
26:D0:70:GLN:HE21	26:D0:80:HIS:HE2	1.66	0.41
29:D3:6:VAL:HA	29:D3:56:VAL:HA	2.02	0.41
32:D6:11:LEU:HD13	32:D6:12:GLU:C	2.46	0.41
32:D6:12:GLU:OE1	32:D6:54:ILE:HG22	2.20	0.41
32:D6:36:LEU:HD23	32:D6:37:ARG:N	2.36	0.41
34:D8:8:LYS:HA	34:D8:11:LYS:HD3	2.02	0.41
34:D8:61:LEU:O	34:D8:62:LEU:C	2.64	0.41
36:DA:274:G:N3	36:DA:274:G:C2'	2.84	0.41
36:DA:371:A:N3	36:DA:373:U:C4	2.89	0.41
36:DA:603:A:C2	36:DA:655:A:C6	3.08	0.41
36:DA:716:A:H3'	36:DA:717:G:H5''	2.03	0.41
36:DA:916:G:H2'	36:DA:917:A:H5''	2.02	0.41
36:DA:1051:G:H2'	36:DA:1052:C:C6	2.56	0.41
36:DA:1154:G:H5''	53:DU:59:ARG:HH22	1.86	0.41
36:DA:1197:G:H2'	36:DA:1198:U:H6	1.86	0.41
36:DA:1314:C:O2'	36:DA:1315:C:H5'	2.21	0.41
36:DA:1360:A:C6	36:DA:1372:U:C4	3.09	0.41
36:DA:1437:C:O2'	36:DA:1516:C:H1'	2.21	0.41
36:DA:1786:A:O2'	36:DA:1938:A:N6	2.54	0.41
36:DA:1888:G:N3	36:DA:1888:G:H5'	2.36	0.41
36:DA:2185:C:OP2	36:DA:2185:C:H6	2.03	0.41
36:DA:2192:G:C2	36:DA:2193:G:C8	3.09	0.41
36:DA:2274:A:C5	36:DA:2276:G:C8	3.09	0.41
36:DA:2350:C:O2'	36:DA:2351:G:H5'	2.21	0.41
36:DA:2842:G:C2	36:DA:2876:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2896:C:O2	36:DA:2896:C:O4'	2.39	0.41
37:DB:71:C:C2	37:DB:72:G:C8	3.09	0.41
37:DB:75:G:N2	58:DZ:87:ASP:CG	2.79	0.41
38:DC:196:LEU:C	38:DC:198:ALA:N	2.79	0.41
38:DC:200:LYS:O	38:DC:201:PRO:C	2.64	0.41
39:DD:142:VAL:HA	39:DD:194:GLY:N	2.36	0.41
39:DD:174:ILE:HA	39:DD:183:ARG:O	2.20	0.41
41:DF:32:LEU:HD22	41:DF:109:GLY:CA	2.50	0.41
41:DF:32:LEU:CD2	41:DF:109:GLY:HA3	2.51	0.41
41:DF:97:TYR:N	41:DF:97:TYR:HD2	2.19	0.41
42:DG:85:GLY:O	42:DG:86:MET:HB3	2.21	0.41
52:DT:131:ALA:C	52:DT:133:GLU:H	2.28	0.41
53:DU:65:ILE:H	53:DU:65:ILE:CD1	2.33	0.41
54:DV:21:ARG:HG2	54:DV:21:ARG:HH11	1.86	0.41
55:DW:25:ARG:NH2	55:DW:74:ALA:O	2.50	0.41
56:DX:45:THR:OG1	56:DX:46:ALA:N	2.54	0.41
58:DZ:27:VAL:HG12	58:DZ:85:HIS:NE2	2.36	0.41
58:DZ:110:GLY:O	58:DZ:115:GLY:HA3	2.20	0.41
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.51	0.41
58:DZ:151:HIS:O	58:DZ:152:ALA:O	2.38	0.41
58:DZ:163:LEU:CD1	58:DZ:165:VAL:HG23	2.51	0.41
1:AA:64:G:N2	1:AA:67:C:N4	2.69	0.40
1:AA:684:A:O2'	1:AA:685:G:H5'	2.21	0.40
1:AA:751:U:C2'	1:AA:752:G:H5'	2.52	0.40
1:AA:858:G:OP2	1:AA:858:G:H8	2.04	0.40
1:AA:863:U:C3'	1:AA:864:A:H5''	2.51	0.40
1:AA:947:G:H2'	1:AA:948:C:H6	1.83	0.40
1:AA:1001:A:N3	1:AA:1001(A):G:O6	2.54	0.40
1:AA:1050:G:O2'	1:AA:1051:C:O5'	2.39	0.40
1:AA:1110:A:C5	1:AA:1111:A:C5	3.09	0.40
1:AA:1255:G:H5'	1:AA:1256:A:OP1	2.21	0.40
1:AA:1526:G:O2'	1:AA:1527:C:C5'	2.69	0.40
3:AC:56:ASP:HB2	3:AC:67:THR:HB	2.03	0.40
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.69	0.40
4:AD:38:TYR:CD1	4:AD:38:TYR:C	2.99	0.40
7:AG:76:ARG:HH21	7:AG:156:TRP:HH2	1.67	0.40
7:AG:79:ARG:HA	7:AG:83:ALA:O	2.22	0.40
7:AG:150:ALA:HB2	11:AK:50:TYR:HE2	1.83	0.40
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.21	0.40
9:AI:76:ALA:O	9:AI:79:LEU:N	2.40	0.40
10:AJ:50:ILE:HG23	10:AJ:60:ARG:HD3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:79:GLU:O	12:AL:79:GLU:CG	2.69	0.40
14:AN:48:ALA:H	14:AN:53:LEU:HD12	1.83	0.40
16:AP:11:SER:HB2	16:AP:14:ASN:HB3	2.03	0.40
16:AP:35:LYS:HG2	16:AP:36:ILE:N	2.36	0.40
20:AT:17:ARG:O	20:AT:19:SER:N	2.54	0.40
22:AW:24:G:C5	22:AW:25:C:C4	3.09	0.40
24:AY:70:A:C2	24:AY:71:G:N7	2.89	0.40
25:AZ:69:GLU:HB3	25:AZ:273:HIS:ND1	2.35	0.40
25:AZ:163:PHE:C	25:AZ:165:GLY:N	2.80	0.40
25:AZ:219:LYS:O	25:AZ:220:PRO:O	2.39	0.40
27:B1:24:ALA:C	27:B1:26:ARG:N	2.72	0.40
27:B1:34:THR:O	36:BA:2432:A:N1	2.53	0.40
29:B3:15:TYR:CE2	29:B3:52:HIS:ND1	2.89	0.40
32:B6:18:ARG:HD2	32:B6:43:CYS:SG	2.61	0.40
33:B7:30:VAL:HA	33:B7:33:ARG:NH2	2.37	0.40
34:B8:12:LYS:NZ	36:BA:249:C:O2	2.42	0.40
35:B9:36:GLN:CD	36:BA:1031:G:H21	2.29	0.40
36:BA:525:U:C2'	36:BA:526:A:H5'	2.51	0.40
36:BA:586:A:N1	36:BA:809:G:O2'	2.36	0.40
36:BA:614(B):G:H5''	36:BA:614(C):A:OP1	2.21	0.40
36:BA:903:C:H2'	36:BA:904:C:H6	1.78	0.40
36:BA:1034:G:C6	36:BA:1035:U:N3	2.89	0.40
36:BA:1049:C:H2'	36:BA:1050:A:H8	1.87	0.40
36:BA:1285:G:C5	36:BA:1329:U:C4	3.10	0.40
36:BA:1324:G:N1	36:BA:1328:G:N1	2.69	0.40
36:BA:1464:C:H2'	36:BA:1465:G:H8	1.85	0.40
36:BA:1742:G:C6	36:BA:1743:C:N3	2.89	0.40
36:BA:2055:C:H5'	36:BA:2056:G:O5'	2.21	0.40
36:BA:2121:G:N2	36:BA:2176:A:C2	2.86	0.40
36:BA:2228:G:OP2	39:BD:263:ARG:NH1	2.54	0.40
36:BA:2244:U:H1'	36:BA:2434:A:C5	2.56	0.40
36:BA:2315:G:H2'	36:BA:2316:C:H6	1.84	0.40
36:BA:2330:G:C2'	36:BA:2331:G:H5'	2.51	0.40
36:BA:2346:A:C2	36:BA:2383:G:C2	3.09	0.40
36:BA:2358:G:H2'	36:BA:2359:C:H6	1.87	0.40
36:BA:2540:C:C2'	36:BA:2541:A:H5'	2.52	0.40
36:BA:2776:A:C4'	36:BA:2778:A:H5''	2.51	0.40
36:BA:2842:G:C2	36:BA:2876:G:C2	3.09	0.40
36:BA:2896:C:O2	36:BA:2896:C:O4'	2.39	0.40
39:BD:73:VAL:C	39:BD:75:ILE:N	2.79	0.40
39:BD:185:VAL:HG12	39:BD:186:HIS:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:103:ASP:OD1	40:BE:201:THR:HA	2.20	0.40
42:BG:88:ILE:HG22	42:BG:89:GLY:N	2.35	0.40
43:BH:92:ILE:H	43:BH:92:ILE:HG13	1.58	0.40
43:BH:136:ILE:N	43:BH:136:ILE:CD1	2.83	0.40
43:BH:144:VAL:O	43:BH:148:ILE:HG12	2.20	0.40
48:BP:115:LEU:HD23	48:BP:115:LEU:N	2.36	0.40
49:BQ:48:GLU:O	49:BQ:50:ALA:N	2.54	0.40
51:BS:68:GLN:O	51:BS:70:GLY:N	2.54	0.40
52:BT:128:GLU:O	52:BT:129:ARG:C	2.63	0.40
53:BU:15:LYS:C	53:BU:17:ILE:H	2.30	0.40
53:BU:32:PHE:O	53:BU:36:ARG:CB	2.69	0.40
53:BU:69:CYS:O	53:BU:74:LEU:HD12	2.20	0.40
53:BU:94:ASN:HD22	53:BU:95:LEU:HG	1.86	0.40
54:BV:17:GLY:O	54:BV:18:LEU:HB3	2.21	0.40
54:BV:43:GLU:O	54:BV:44:LYS:CB	2.69	0.40
54:BV:64:HIS:HA	54:BV:92:THR:HA	2.03	0.40
55:BW:55:ALA:C	55:BW:57:ASN:H	2.29	0.40
55:BW:68:ARG:O	55:BW:110:LYS:HB2	2.21	0.40
56:BX:8:ILE:N	56:BX:8:ILE:CD1	2.84	0.40
56:BX:57:LEU:N	56:BX:57:LEU:HD13	2.35	0.40
58:BZ:7:ALA:H	58:BZ:59:LEU:HB3	1.85	0.40
1:CA:51:A:C2	1:CA:353:A:N1	2.90	0.40
1:CA:90:U:O2'	1:CA:91:C:H5	2.04	0.40
1:CA:159:G:H2'	1:CA:161:A:OP2	2.21	0.40
1:CA:266:G:O2'	1:CA:267:C:P	2.79	0.40
1:CA:442:C:N4	1:CA:443:C:N4	2.70	0.40
1:CA:572:A:C2	1:CA:864:A:C2	3.09	0.40
1:CA:636:U:OP1	17:CQ:2:PRO:HG3	2.21	0.40
1:CA:926:G:C6	1:CA:1505:G:C5	3.09	0.40
1:CA:930:C:O2'	1:CA:931:C:H5'	2.21	0.40
1:CA:935:A:C2	1:CA:936:C:C4	3.09	0.40
1:CA:942:G:N2	1:CA:943:U:C2	2.89	0.40
1:CA:1005:A:H8	1:CA:1005:A:O5'	2.04	0.40
1:CA:1092:A:C6	1:CA:1093:A:C6	3.09	0.40
1:CA:1106:G:C2'	1:CA:1107:C:H5'	2.51	0.40
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.56	0.40
1:CA:1308:U:H2'	1:CA:1309:G:H8	1.86	0.40
1:CA:1381:U:C5	1:CA:1382:C:C5	3.09	0.40
1:CA:1394:A:C5	1:CA:1501:C:H4'	2.56	0.40
1:CA:1520:G:C2'	1:CA:1521:G:O5'	2.69	0.40
2:CB:107:THR:O	2:CB:108:ILE:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	2.19	0.40
2:CB:182:ILE:HG13	2:CB:182:ILE:H	1.75	0.40
3:CC:90:GLU:HA	3:CC:93:LYS:HD3	2.03	0.40
3:CC:113:ALA:C	3:CC:185:GLY:HA3	2.46	0.40
4:CD:10:ARG:HG2	4:CD:10:ARG:NH1	2.35	0.40
4:CD:92:VAL:CG1	4:CD:96:LEU:HD13	2.51	0.40
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.34	0.40
5:CE:94:ALA:HB3	5:CE:117:ASP:C	2.46	0.40
5:CE:145:LYS:HB2	8:CH:107:LEU:HD21	2.02	0.40
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.50	0.40
6:CF:14:LEU:HD12	6:CF:19:LEU:HB2	2.03	0.40
6:CF:79:LEU:C	6:CF:81:ILE:H	2.29	0.40
7:CG:73:MET:HA	7:CG:90:GLU:HA	2.04	0.40
7:CG:123:GLU:O	7:CG:126:ASP:N	2.54	0.40
8:CH:34:GLU:OE2	8:CH:37:ARG:NH1	2.54	0.40
9:CI:10:ARG:O	9:CI:11:LYS:CB	2.63	0.40
10:CJ:98:ILE:HD12	10:CJ:98:ILE:HA	1.94	0.40
12:CL:5:PRO:O	12:CL:6:THR:C	2.63	0.40
13:CM:19:LEU:H	13:CM:19:LEU:CD2	2.33	0.40
13:CM:37:THR:O	13:CM:38:GLY:C	2.64	0.40
13:CM:40:ASN:OD1	13:CM:41:PRO:CD	2.68	0.40
13:CM:70:LEU:HD22	13:CM:71:ARG:N	2.37	0.40
13:CM:74:VAL:O	13:CM:77:ASN:ND2	2.53	0.40
13:CM:86:CYS:C	13:CM:88:ARG:N	2.77	0.40
16:CP:20:VAL:HG13	16:CP:22:THR:HG22	2.04	0.40
16:CP:57:ARG:O	16:CP:58:TYR:C	2.63	0.40
18:CR:48:GLY:O	18:CR:74:ARG:NH2	2.54	0.40
22:CV:1:G:N1	22:CV:73:A:C8	2.88	0.40
22:CV:30:G:N1	22:CV:41:C:C4	2.89	0.40
25:CZ:71:GLU:HB2	25:CZ:75:ARG:O	2.21	0.40
25:CZ:145:GLU:HB3	25:CZ:146:LEU:H	1.67	0.40
25:CZ:361:MET:HE3	25:CZ:363:MET:HG2	2.04	0.40
26:D0:10:THR:CG2	26:D0:11:ARG:N	2.84	0.40
27:D1:80:LEU:CD2	27:D1:81:LYS:N	2.83	0.40
32:D6:36:LEU:C	32:D6:36:LEU:CD2	2.89	0.40
33:D7:44:PRO:O	33:D7:45:ALA:C	2.64	0.40
36:DA:17:G:H4'	53:DU:25:TRP:CZ2	2.56	0.40
36:DA:142(A):C:C2'	36:DA:143:G:H5'	2.50	0.40
36:DA:225:A:H2'	36:DA:226:G:H5'	2.02	0.40
36:DA:244:A:H3'	36:DA:245:G:H5''	2.01	0.40
36:DA:246:C:O5'	36:DA:246:C:H6	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:571:A:C8	36:DA:2030:A:C6	3.09	0.40
36:DA:715:G:C6	36:DA:716:A:C6	3.10	0.40
36:DA:1233:C:N3	36:DA:1234:U:C5	2.89	0.40
36:DA:1247:A:C2	36:DA:1249:U:C6	3.09	0.40
36:DA:1448:G:N2	36:DA:1464:C:H1'	2.36	0.40
36:DA:1569:A:O2'	39:DD:38:LYS:HG3	2.20	0.40
36:DA:1800:C:OP1	39:DD:264:LYS:HE2	2.21	0.40
36:DA:2040:C:N3	36:DA:2041:U:C4	2.89	0.40
36:DA:2048:G:N2	36:DA:2621:A:N3	2.69	0.40
36:DA:2307:G:N2	36:DA:2308:G:C5'	2.84	0.40
36:DA:2679:A:C6	36:DA:2729:G:O6	2.73	0.40
36:DA:2740:A:H2'	36:DA:2741:A:C8	2.56	0.40
38:DC:30:LYS:HE2	38:DC:178:ALA:O	2.21	0.40
39:DD:65:ILE:HG22	39:DD:104:TYR:CB	2.50	0.40
39:DD:162:SER:O	39:DD:178:PRO:HG3	2.21	0.40
40:DE:23:VAL:CA	40:DE:184:VAL:O	2.68	0.40
40:DE:199:ARG:CZ	40:DE:199:ARG:CB	2.99	0.40
46:DN:97:ARG:O	46:DN:98:VAL:C	2.63	0.40
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.47	0.40
49:DQ:39:PRO:O	49:DQ:40:ALA:HB2	2.21	0.40
49:DQ:74:TYR:CD1	49:DQ:75:THR:N	2.85	0.40
50:DR:45:ARG:O	50:DR:48:VAL:N	2.54	0.40
51:DS:106:ARG:O	51:DS:107:GLU:HB3	2.21	0.40
52:DT:78:LEU:HA	52:DT:82:LEU:CD2	2.51	0.40
52:DT:83:ILE:CG1	52:DT:84:GLN:N	2.71	0.40
52:DT:106:SER:O	52:DT:107:ASP:OD1	2.38	0.40
53:DU:61:TRP:C	53:DU:65:ILE:HD13	2.42	0.40
55:DW:4:LYS:HG2	55:DW:5:ALA:N	2.36	0.40
55:DW:12:ILE:HG23	55:DW:17:VAL:HG22	2.03	0.40
56:DX:5:TYR:C	56:DX:7:VAL:H	2.29	0.40
57:DY:13:VAL:HG23	57:DY:73:ARG:O	2.21	0.40
57:DY:15:VAL:HG12	57:DY:17:SER:H	1.86	0.40
58:DZ:38:TYR:CD1	58:DZ:38:TYR:C	2.98	0.40
1:AA:60:A:OP2	1:AA:387:U:H4'	2.21	0.40
1:AA:131:C:O2	1:AA:262:A:H2	2.04	0.40
1:AA:149:A:H2'	1:AA:150:C:C6	2.56	0.40
1:AA:151:A:H2'	1:AA:152:A:C5'	2.50	0.40
1:AA:276:G:C2'	1:AA:277:C:H5'	2.51	0.40
1:AA:502:G:N1	1:AA:544:G:C6	2.90	0.40
1:AA:684:A:H2'	1:AA:685:G:C8	2.57	0.40
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1245:A:N1	1:AA:1293:G:C6	2.89	0.40
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.21	0.40
2:AB:8:LYS:CE	2:AB:217:ARG:NH2	2.83	0.40
3:AC:102:ASN:C	3:AC:103:VAL:HG23	2.45	0.40
4:AD:3:ARG:HD3	4:AD:5:ILE:HG13	2.03	0.40
5:AE:43:LEU:HD12	5:AE:44:GLY:N	2.36	0.40
5:AE:63:ARG:HA	5:AE:66:MET:SD	2.61	0.40
8:AH:39:LEU:O	8:AH:40:ALA:C	2.62	0.40
10:AJ:80:LYS:O	10:AJ:83:GLU:HB3	2.20	0.40
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.85	0.40
11:AK:99:GLN:O	11:AK:101:SER:N	2.46	0.40
12:AL:70:ILE:HA	12:AL:71:PRO:HD3	1.84	0.40
12:AL:75:HIS:CD2	12:AL:77:LEU:HB2	2.56	0.40
13:AM:59:TYR:O	13:AM:60:VAL:C	2.63	0.40
14:AN:4:LYS:HB3	14:AN:5:ALA:H	1.68	0.40
17:AQ:18:THR:O	17:AQ:19:VAL:HG13	2.21	0.40
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.87	0.40
19:AS:40:ILE:CB	19:AS:67:VAL:HA	2.52	0.40
20:AT:30:LYS:O	20:AT:32:ALA:N	2.54	0.40
20:AT:91:LEU:C	20:AT:93:GLU:N	2.79	0.40
25:AZ:324:LYS:HG2	25:AZ:326:GLU:OE1	2.22	0.40
25:AZ:383:GLY:H	25:AZ:400:VAL:HB	1.85	0.40
25:AZ:389:ARG:HH22	25:AZ:392:GLY:C	2.28	0.40
25:AZ:401:THR:HG22	25:AZ:402:LYS:N	2.35	0.40
26:B0:11:ARG:HB3	26:B0:14:ARG:HH22	1.87	0.40
28:B2:30:ARG:C	28:B2:33:MET:HB3	2.45	0.40
28:B2:39:ALA:HB2	28:B2:45:SER:HA	2.02	0.40
31:B5:2:ALA:N	36:BA:2015:A:N3	2.70	0.40
32:B6:54:ILE:CG2	32:B6:54:ILE:OXT	2.68	0.40
33:B7:36:GLN:O	33:B7:37:LYS:C	2.63	0.40
34:B8:21:LYS:HD2	36:BA:651:G:OP2	2.21	0.40
36:BA:83:G:O2'	36:BA:84:A:H8	1.90	0.40
36:BA:84:A:H2	36:BA:98:G:N3	2.20	0.40
36:BA:270:A:N1	36:BA:366:C:O2'	2.43	0.40
36:BA:271(S):G:C2	36:BA:271(T):C:C2	3.09	0.40
36:BA:580:C:O2'	36:BA:581:C:H5'	2.21	0.40
36:BA:645:C:O2	36:BA:645:C:C3'	2.69	0.40
36:BA:659:C:H6	36:BA:659:C:O5'	2.04	0.40
36:BA:670:A:H5'	48:BP:43:GLY:O	2.21	0.40
36:BA:681:G:H2'	36:BA:682:G:H8	1.86	0.40
36:BA:771:G:O2'	36:BA:1355:G:C1'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:910:A:H2'	36:BA:911:A:C8	2.56	0.40
36:BA:1197:G:H2'	36:BA:1198:U:H6	1.85	0.40
36:BA:1440:G:H8	36:BA:1440:G:O5'	2.04	0.40
36:BA:1468:C:H2'	36:BA:1469:A:C8	2.57	0.40
36:BA:1512:U:O2	36:BA:1512:U:C2'	2.62	0.40
36:BA:1528(A):A:H8	36:BA:1529:G:N9	2.20	0.40
36:BA:1576:U:H2'	36:BA:1577:C:H6	1.74	0.40
36:BA:1606:G:H4'	36:BA:1608:A:C2	2.56	0.40
36:BA:1666:G:H3'	36:BA:1667:G:C8	2.56	0.40
36:BA:1762:A:H2'	36:BA:1762:A:N3	2.36	0.40
36:BA:1888:G:H5'	36:BA:1888:G:N3	2.36	0.40
36:BA:1907:G:C6	36:BA:1924:C:N3	2.89	0.40
36:BA:2052:G:N1	36:BA:2053:G:C5	2.89	0.40
36:BA:2100:G:H2'	36:BA:2100:G:N3	2.35	0.40
36:BA:2130:U:O2	36:BA:2159:G:C2	2.75	0.40
36:BA:2282:G:C5'	36:BA:2283:C:O4'	2.69	0.40
36:BA:2419:U:H2'	36:BA:2420:C:C6	2.55	0.40
36:BA:2567:G:H2'	36:BA:2568:C:C6	2.55	0.40
36:BA:2648:C:C2	36:BA:2673:G:C2	3.10	0.40
36:BA:2726:U:H6	47:BO:67:LYS:HZ3	1.69	0.40
36:BA:2743:C:N3	36:BA:2762:G:C2	2.89	0.40
37:BB:14:U:O2'	37:BB:15:A:OP1	2.35	0.40
38:BC:112:ALA:C	38:BC:113:VAL:HG22	2.47	0.40
38:BC:199:HIS:O	38:BC:201:PRO:HD3	2.21	0.40
39:BD:117:VAL:HG23	39:BD:129:ASN:N	2.36	0.40
39:BD:130:ALA:C	39:BD:131:LEU:HG	2.47	0.40
39:BD:176:ARG:HG2	39:BD:176:ARG:NH1	2.35	0.40
39:BD:202:LYS:O	39:BD:202:LYS:HG3	2.21	0.40
41:BF:106:ARG:O	41:BF:107:LYS:HD3	2.21	0.40
41:BF:160:ASN:HB3	41:BF:163:VAL:CB	2.41	0.40
43:BH:158:HIS:NE2	43:BH:170:ARG:C	2.80	0.40
46:BN:35:ARG:O	46:BN:37:LYS:N	2.53	0.40
48:BP:59:LEU:O	48:BP:61:ARG:N	2.55	0.40
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.24	0.40
51:BS:17:ARG:C	51:BS:19:LYS:H	2.28	0.40
51:BS:89:ARG:CG	51:BS:92:TYR:HB3	2.52	0.40
54:BV:88:ARG:O	54:BV:90:PRO:CD	2.64	0.40
54:BV:95:LEU:HD22	54:BV:97:LYS:HG2	2.03	0.40
57:BY:76:CYS:CB	57:BY:77:PRO:HD2	2.51	0.40
58:BZ:129:SER:HA	58:BZ:130:PRO:HD3	1.73	0.40
58:BZ:163:LEU:HG	58:BZ:164:ALA:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:9:G:OP2	5:CE:121:LYS:NZ	2.35	0.40
1:CA:102:G:C6	1:CA:103:C:C5	3.09	0.40
1:CA:128:G:H4'	17:CQ:3:LYS:HG2	2.04	0.40
1:CA:548:G:O2'	1:CA:549:C:H5'	2.20	0.40
1:CA:588:G:C6	1:CA:589:C:C4	3.09	0.40
1:CA:739:C:O2'	15:CO:42:HIS:ND1	2.54	0.40
1:CA:782:A:N6	1:CA:801:U:C6	2.89	0.40
1:CA:894:G:H2'	1:CA:895:G:C8	2.56	0.40
1:CA:924:C:O2'	1:CA:1502:A:N6	2.54	0.40
1:CA:1004:A:H5''	1:CA:1025:U:C5	2.56	0.40
1:CA:1148:U:H2'	1:CA:1149:C:C5'	2.51	0.40
1:CA:1291:G:OP1	7:CG:37:ASN:HB3	2.21	0.40
1:CA:1329:A:OP1	13:CM:28:ALA:HB3	2.22	0.40
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.20	0.40
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.21	0.40
2:CB:212:GLN:O	2:CB:213:LEU:C	2.65	0.40
3:CC:140:ARG:HG3	3:CC:140:ARG:NH1	2.34	0.40
4:CD:68:TYR:CD2	4:CD:97:LEU:HD22	2.56	0.40
4:CD:109:GLY:HA3	4:CD:165:MET:CE	2.50	0.40
4:CD:127:THR:HG23	4:CD:132:ARG:HA	2.02	0.40
4:CD:150:GLU:C	4:CD:152:SER:N	2.79	0.40
7:CG:126:ASP:C	7:CG:128:ALA:N	2.79	0.40
8:CH:136:GLU:O	8:CH:136:GLU:HG3	2.22	0.40
11:CK:38:ASN:O	11:CK:39:PRO:O	2.39	0.40
13:CM:19:LEU:O	13:CM:22:ILE:CD1	2.66	0.40
13:CM:68:GLY:O	13:CM:72:ALA:CB	2.67	0.40
16:CP:21:VAL:CG1	16:CP:33:ILE:HB	2.42	0.40
16:CP:23:ASP:OD1	16:CP:23:ASP:C	2.64	0.40
17:CQ:18:THR:O	17:CQ:19:VAL:HG13	2.21	0.40
17:CQ:31:LEU:O	17:CQ:32:TYR:HD2	2.05	0.40
24:CY:9:A:H62	24:CY:23:A:N6	2.17	0.40
24:CY:18:G:HO2'	24:CY:57:G:H22	1.65	0.40
24:CY:33:U:C3'	24:CY:34:G:H5''	2.51	0.40
25:CZ:20:VAL:CG2	25:CZ:21:ASP:N	2.85	0.40
25:CZ:69:GLU:HB3	25:CZ:273:HIS:ND1	2.36	0.40
25:CZ:151:GLU:HG2	25:CZ:170:VAL:HG11	2.03	0.40
25:CZ:200:TRP:C	25:CZ:202:LEU:H	2.30	0.40
25:CZ:201:GLU:O	25:CZ:205:ALA:CB	2.70	0.40
25:CZ:306:LYS:O	25:CZ:309:SER:N	2.33	0.40
25:CZ:326:GLU:O	63:CZ:502:KIR:H101	2.21	0.40
26:D0:20:ARG:HH11	26:D0:20:ARG:CG	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:26:LEU:CB	29:D3:28:LEU:HD21	2.51	0.40
31:D5:58:LEU:O	31:D5:59:GLU:HB3	2.21	0.40
35:D9:1:MET:HG2	35:D9:31:LYS:O	2.20	0.40
35:D9:6:SER:HB2	36:DA:2466:C:H5''	2.02	0.40
36:DA:19:C:H5'	36:DA:554:U:OP1	2.21	0.40
36:DA:78:A:O2'	36:DA:79:G:H5'	2.22	0.40
36:DA:122:G:H2'	36:DA:123:G:H8	1.86	0.40
36:DA:271(V):G:O2'	36:DA:271(W):G:H5'	2.21	0.40
36:DA:320:A:O2'	36:DA:321:G:H3'	2.22	0.40
36:DA:383:U:C6	36:DA:385:C:C5	3.09	0.40
36:DA:472:A:O2'	36:DA:508:G:N2	2.53	0.40
36:DA:491:G:H2'	36:DA:492:A:C8	2.56	0.40
36:DA:606:U:H6	36:DA:606:U:H3'	1.86	0.40
36:DA:614:U:O2	36:DA:614:U:O4'	2.39	0.40
36:DA:869:G:C2'	36:DA:870:A:H5'	2.51	0.40
36:DA:940:G:C3'	36:DA:941:A:H5''	2.51	0.40
36:DA:1093:G:H4'	43:DH:170:ARG:HH12	1.85	0.40
36:DA:1173:G:H3'	36:DA:1174:A:C5'	2.51	0.40
36:DA:1233:C:C2	36:DA:1234:U:C6	3.09	0.40
36:DA:1413:G:H2'	36:DA:1414:G:H8	1.85	0.40
36:DA:1469:A:O2'	36:DA:1470:G:H5'	2.21	0.40
36:DA:1491:G:O2'	36:DA:1492:G:H5'	2.22	0.40
36:DA:1785:A:C2	36:DA:2588:G:N2	2.88	0.40
36:DA:1844:C:O3'	39:DD:258:LYS:HE3	2.21	0.40
36:DA:2333:A:O4'	36:DA:2335:A:C4	2.74	0.40
36:DA:2359:C:C5	36:DA:2360:A:N7	2.89	0.40
36:DA:2359:C:H3'	36:DA:2360:A:H8	1.87	0.40
36:DA:2386:C:H2'	36:DA:2387:U:H6	1.86	0.40
36:DA:2436:G:O2'	36:DA:2437:U:H5'	2.21	0.40
36:DA:2698:U:H2'	36:DA:2699:C:C6	2.56	0.40
36:DA:2781:A:H5'	36:DA:2782:G:C5'	2.49	0.40
36:DA:2809:A:N6	36:DA:2891:G:H2'	2.36	0.40
37:DB:40:U:H3'	37:DB:41:U:C5'	2.52	0.40
38:DC:6:ARG:NH1	38:DC:6:ARG:CG	2.81	0.40
38:DC:59:ARG:CZ	38:DC:164:ARG:NH1	2.85	0.40
39:DD:62:TYR:CG	39:DD:63:ARG:N	2.89	0.40
39:DD:122:ASP:O	39:DD:123:ALA:C	2.64	0.40
39:DD:155:LEU:HD12	39:DD:155:LEU:N	2.35	0.40
39:DD:160:GLY:H	39:DD:196:VAL:HG12	1.86	0.40
39:DD:224:ALA:CB	39:DD:233:HIS:HB3	2.29	0.40
41:DF:8:GLN:HE21	41:DF:9:ILE:HB	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:96:ASP:C	41:DF:97:TYR:HD2	2.29	0.40
41:DF:110:LEU:C	41:DF:112:MET:H	2.28	0.40
41:DF:114:VAL:HG21	41:DF:181:LEU:HD21	2.03	0.40
42:DG:133:LEU:CD1	42:DG:157:ILE:HD12	2.51	0.40
43:DH:20:ALA:HB1	43:DH:21:PRO:HD2	2.02	0.40
43:DH:46:GLU:O	43:DH:47:GLU:C	2.64	0.40
43:DH:67:LEU:O	43:DH:71:LEU:HG	2.21	0.40
43:DH:158:HIS:NE2	43:DH:170:ARG:C	2.79	0.40
46:DN:67:LEU:O	46:DN:68:GLU:HG3	2.21	0.40
49:DQ:22:LYS:O	49:DQ:22:LYS:CG	2.69	0.40
49:DQ:32:TYR:OH	49:DQ:111:GLU:HB2	2.21	0.40
49:DQ:54:MET:CG	49:DQ:64:ILE:HD13	2.50	0.40
50:DR:7:GLY:H	50:DR:8:ARG:NH2	2.19	0.40
53:DU:83:LEU:CD1	53:DU:83:LEU:N	2.83	0.40
54:DV:35:LEU:O	54:DV:36:PRO:C	2.63	0.40
55:DW:34:ASN:HD22	55:DW:34:ASN:HA	1.63	0.40
1:AA:35:G:C5	1:AA:36:C:C4	3.09	0.40
1:AA:37:U:O2'	1:AA:38:G:H5'	2.21	0.40
1:AA:186:C:O4'	20:AT:81:LYS:HE2	2.21	0.40
1:AA:193:C:H2'	1:AA:194:C:C6	2.56	0.40
1:AA:260:G:C2'	1:AA:261:U:H5'	2.51	0.40
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.36	0.40
1:AA:806:C:H2'	1:AA:807:A:C8	2.57	0.40
1:AA:1281:U:H3'	1:AA:1282:C:C5	2.56	0.40
1:AA:1339:A:C2	22:AV:31:A:O4'	2.74	0.40
1:AA:1508:G:H1	1:AA:1527:C:N4	2.14	0.40
2:AB:8:LYS:HZ2	2:AB:217:ARG:NH1	2.18	0.40
3:AC:64:VAL:CG1	3:AC:66:VAL:CG2	2.98	0.40
3:AC:69:HIS:HE1	3:AC:104:GLN:OE1	2.05	0.40
3:AC:150:LYS:O	3:AC:151:VAL:HG23	2.21	0.40
5:AE:110:LEU:HD23	5:AE:110:LEU:HA	1.90	0.40
6:AF:32:ASN:C	6:AF:34:GLY:N	2.79	0.40
7:AG:16:LEU:HD11	9:AI:42:ARG:HA	1.99	0.40
11:AK:99:GLN:C	11:AK:101:SER:H	2.28	0.40
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.22	0.40
13:AM:100:GLY:C	13:AM:101:GLN:HG3	2.46	0.40
21:AU:18:TYR:CD1	21:AU:24:ARG:HG3	2.56	0.40
24:AY:42:U:H6	24:AY:42:U:H5'	1.86	0.40
25:AZ:375:ILE:C	25:AZ:376:LYS:HG3	2.46	0.40
28:B2:55:ARG:C	28:B2:57:ILE:H	2.28	0.40
29:B3:52:HIS:CD2	29:B3:52:HIS:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:17:ASP:O	31:B5:20:ARG:O	2.39	0.40
31:B5:41:PRO:HA	31:B5:42:PRO:HD3	1.95	0.40
31:B5:41:PRO:CG	31:B5:44:THR:OG1	2.49	0.40
32:B6:36:LEU:HD23	32:B6:37:ARG:N	2.35	0.40
33:B7:24:THR:C	33:B7:26:GLY:N	2.78	0.40
34:B8:5:LYS:HB3	36:BA:254:G:O6	2.21	0.40
36:BA:139:G:H3'	36:BA:139(A):G:H5''	2.02	0.40
36:BA:222:A:N1	36:BA:233:A:H5''	2.37	0.40
36:BA:541:C:H2'	36:BA:542:C:C6	2.56	0.40
36:BA:583:G:C6	36:BA:584:C:N4	2.90	0.40
36:BA:723:G:C5	36:BA:724:U:C4	3.10	0.40
36:BA:889:C:O2'	36:BA:890:A:P	2.79	0.40
36:BA:978:G:H2'	36:BA:979:G:O4'	2.21	0.40
36:BA:1091:G:N2	36:BA:1101:U:O2'	2.55	0.40
36:BA:1216:G:C2	36:BA:1234:U:H1'	2.56	0.40
36:BA:1307:A:C4	36:BA:1622:G:N2	2.89	0.40
36:BA:1330:C:O2	36:BA:1330:C:H2'	2.21	0.40
36:BA:1355:G:O6	36:BA:1377:G:C2	2.75	0.40
36:BA:1427:A:C1'	36:BA:1428:C:C5	3.04	0.40
36:BA:1434:A:H61	36:BA:1558:A:N6	2.19	0.40
36:BA:1547:C:O2'	36:BA:1548:C:H5'	2.21	0.40
36:BA:1652:A:H2'	36:BA:1653:G:C5'	2.47	0.40
36:BA:1787:A:H4'	36:BA:2589:A:H4'	2.04	0.40
36:BA:1836:C:O5'	36:BA:1836:C:H6	2.04	0.40
36:BA:1930:G:O2'	36:BA:1931:U:P	2.79	0.40
36:BA:2133:G:C2	36:BA:2157:G:O6	2.75	0.40
36:BA:2179:C:O2	36:BA:2179:C:O4'	2.40	0.40
36:BA:2201:C:C4	36:BA:2202:C:N4	2.89	0.40
36:BA:2307:G:N2	36:BA:2308:G:C5'	2.84	0.40
36:BA:2371:G:N1	36:BA:2372:G:C5	2.90	0.40
36:BA:2446:G:H8	36:BA:2446:G:O5'	2.03	0.40
36:BA:2457:U:H2'	36:BA:2458:G:H5'	2.02	0.40
36:BA:2458:G:N3	36:BA:2490:G:N2	2.69	0.40
36:BA:2667:C:H2'	36:BA:2668:G:H8	1.87	0.40
36:BA:2704:C:H2'	36:BA:2705:A:C8	2.56	0.40
36:BA:2741:A:H2'	36:BA:2742:C:O4'	2.20	0.40
37:BB:15:A:H3'	37:BB:16:G:C5'	2.51	0.40
37:BB:21:G:O2'	37:BB:22:U:H5'	2.21	0.40
39:BD:76:PRO:HB2	39:BD:116:GLN:HE21	1.86	0.40
39:BD:147:LEU:HB2	39:BD:155:LEU:HD11	2.03	0.40
40:BE:7:VAL:CG1	40:BE:27:LEU:HB3	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BE:101:ARG:CD	40:BE:171:GLU:HA	2.51	0.40
41:BF:39:TRP:CD1	41:BF:101:LEU:HB2	2.56	0.40
41:BF:53:THR:CG2	41:BF:56:GLU:HG3	2.42	0.40
41:BF:97:TYR:N	41:BF:97:TYR:HD2	2.18	0.40
41:BF:120:GLU:HB3	41:BF:122:LYS:NZ	2.37	0.40
41:BF:167:ALA:HB1	41:BF:173:VAL:CG1	2.51	0.40
42:BG:27:ASN:ND2	42:BG:29:TRP:CB	2.83	0.40
42:BG:47:LYS:HZ1	42:BG:81:LYS:HB3	1.87	0.40
42:BG:149:VAL:O	42:BG:150:ASP:C	2.65	0.40
47:BO:12:ASP:O	47:BO:14:THR:N	2.54	0.40
49:BQ:38:GLU:O	49:BQ:39:PRO:C	2.63	0.40
50:BR:33:ARG:O	50:BR:34:ILE:HD13	2.21	0.40
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.20	0.40
52:BT:110:ILE:HG22	52:BT:111:ARG:N	2.36	0.40
53:BU:31:SER:O	53:BU:32:PHE:C	2.64	0.40
54:BV:13:ARG:HH11	54:BV:13:ARG:CG	2.33	0.40
54:BV:58:VAL:O	54:BV:59:ALA:HB2	2.20	0.40
55:BW:34:ASN:HD22	55:BW:34:ASN:HA	1.65	0.40
55:BW:63:ASP:C	55:BW:64:MET:HG3	2.45	0.40
58:BZ:109:ALA:O	58:BZ:145:GLU:OE2	2.40	0.40
1:CA:38:G:H4'	1:CA:547:A:N6	2.36	0.40
1:CA:59:A:H3'	1:CA:331:G:H22	1.85	0.40
1:CA:187:C:N4	1:CA:191:G:C6	2.89	0.40
1:CA:204:U:O2	1:CA:204:U:O4'	2.39	0.40
1:CA:448:A:C4	1:CA:487:A:C2	3.09	0.40
1:CA:547:A:H1'	1:CA:548:G:O4'	2.22	0.40
1:CA:564:C:O2'	1:CA:565:U:H5'	2.21	0.40
1:CA:1278:U:C5'	1:CA:1279:A:C8	3.05	0.40
1:CA:1332:A:O2'	1:CA:1333:A:H5'	2.22	0.40
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.85	0.40
1:CA:1499:A:O4'	1:CA:1520:G:C5'	2.70	0.40
2:CB:54:THR:O	2:CB:57:PHE:N	2.54	0.40
2:CB:92:TYR:HD1	2:CB:93:VAL:N	2.17	0.40
3:CC:84:ILE:O	3:CC:84:ILE:HG12	2.21	0.40
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.68	0.40
4:CD:160:GLN:H	4:CD:160:GLN:HG3	1.47	0.40
6:CF:44:GLY:C	6:CF:60:PHE:H	2.27	0.40
7:CG:94:ARG:HB2	7:CG:95:ARG:H	1.75	0.40
8:CH:77:GLU:CG	8:CH:78:GLN:N	2.84	0.40
8:CH:81:HIS:HB2	8:CH:138:TRP:CE3	2.56	0.40
9:CI:49:PRO:C	9:CI:51:ARG:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:88:TYR:O	9:CI:89:ASN:ND2	2.54	0.40
11:CK:66:LEU:O	11:CK:69:ALA:N	2.54	0.40
12:CL:20:LYS:N	12:CL:20:LYS:CD	2.71	0.40
16:CP:3:LYS:CB	16:CP:65:GLN:O	2.70	0.40
18:CR:59:SER:O	18:CR:62:GLU:HB2	2.20	0.40
22:CV:47:U:O2'	22:CV:48:C:H5'	2.21	0.40
24:CY:54:5MU:H73	24:CY:55:PSU:O2	2.21	0.40
25:CZ:147:LEU:HD22	25:CZ:147:LEU:N	2.37	0.40
25:CZ:325:LYS:HD2	25:CZ:331:HIS:HB2	2.02	0.40
26:D0:75:LEU:HA	26:D0:75:LEU:HD23	1.77	0.40
27:D1:3:LYS:CG	27:D1:4:VAL:HG12	2.45	0.40
28:D2:31:GLU:O	28:D2:35:LEU:HB3	2.21	0.40
32:D6:53:LYS:HD3	32:D6:54:ILE:N	2.23	0.40
33:D7:29:LYS:HE3	36:DA:210:C:P	2.62	0.40
34:D8:4:MET:CE	34:D8:61:LEU:CD2	2.99	0.40
34:D8:8:LYS:HA	34:D8:11:LYS:CB	2.47	0.40
36:DA:14:A:H5''	36:DA:15:G:OP2	2.21	0.40
36:DA:52:A:C2	36:DA:178:G:N3	2.89	0.40
36:DA:86:C:H4'	36:DA:104:U:O2	2.20	0.40
36:DA:218:A:H2	36:DA:235:U:H4'	1.85	0.40
36:DA:272(H):C:C2'	36:DA:272(I):U:C5'	2.93	0.40
36:DA:307:G:H21	36:DA:330:A:H62	1.69	0.40
36:DA:355:G:H2'	36:DA:356:G:C8	2.56	0.40
36:DA:458:G:HO2'	36:DA:469:G:H1	1.70	0.40
36:DA:472:A:H5'	36:DA:472:A:C8	2.52	0.40
36:DA:605:C:O2'	36:DA:606:U:H5'	2.22	0.40
36:DA:693:C:H2'	36:DA:694:U:C6	2.56	0.40
36:DA:772:C:H5'	36:DA:1355:G:H4'	2.03	0.40
36:DA:996:A:N6	36:DA:1160:G:C5	2.89	0.40
36:DA:997:G:C2	36:DA:998:C:C4	3.09	0.40
36:DA:1099:G:H2'	36:DA:1100:C:O4'	2.20	0.40
36:DA:1131:G:OP1	46:DN:80:GLY:N	2.50	0.40
36:DA:1373:A:C2'	36:DA:1374:G:H5'	2.51	0.40
36:DA:1413:G:H2'	36:DA:1414:G:C8	2.56	0.40
36:DA:1492:G:C2	36:DA:1499:C:O2	2.75	0.40
36:DA:1560:G:N3	36:DA:1560:G:H2'	2.36	0.40
36:DA:1667:G:OP2	36:DA:1667:G:C8	2.64	0.40
36:DA:1701:A:H2'	36:DA:1702:G:H5'	2.02	0.40
36:DA:1973:G:C6	36:DA:1974:C:N4	2.90	0.40
36:DA:2052:G:C6	36:DA:2053:G:N7	2.89	0.40
36:DA:2063:C:C2'	36:DA:2064:C:H5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:2177:C:H2'	36:DA:2178:C:O2	2.20	0.40
36:DA:2188:C:H2'	36:DA:2189:U:C2	2.56	0.40
36:DA:2189:U:C2'	36:DA:2190:G:C4'	2.98	0.40
36:DA:2636:U:H1'	36:DA:2783:G:H22	1.85	0.40
36:DA:2646:C:OP2	36:DA:2732:G:O2'	2.39	0.40
36:DA:2657:A:C5	36:DA:2665:A:C5	3.09	0.40
37:DB:85:G:C4	37:DB:93:G:C2	3.09	0.40
38:DC:15:ASP:O	38:DC:18:LYS:N	2.52	0.40
39:DD:46:GLN:N	39:DD:46:GLN:OE1	2.55	0.40
39:DD:160:GLY:N	39:DD:197:GLY:O	2.55	0.40
40:DE:171:GLU:OE2	40:DE:172:VAL:C	2.64	0.40
42:DG:45:GLU:OE2	42:DG:45:GLU:CA	2.69	0.40
42:DG:97:ASP:N	42:DG:97:ASP:OD1	2.55	0.40
43:DH:141:VAL:O	43:DH:145:ALA:HB2	2.22	0.40
47:DO:78:ARG:HH21	52:DT:73:GLU:CD	2.30	0.40
49:DQ:42:ILE:HD12	49:DQ:42:ILE:HA	1.87	0.40
53:DU:106:PHE:C	53:DU:108:GLU:N	2.75	0.40
54:DV:57:VAL:HG23	54:DV:98:GLU:O	2.21	0.40
56:DX:18:TYR:O	56:DX:19:ALA:C	2.64	0.40
56:DX:23:GLU:O	56:DX:25:LYS:N	2.52	0.40
57:DY:6:HIS:N	57:DY:6:HIS:HD2	2.18	0.40
58:DZ:44:PHE:O	58:DZ:45:ASP:C	2.63	0.40
58:DZ:68:PRO:HB2	58:DZ:91:LEU:HD12	2.03	0.40
1:AA:27:G:H2'	1:AA:28:G:H8	1.87	0.40
1:AA:59:A:H3'	1:AA:60:A:C5'	2.52	0.40
1:AA:156:G:H1'	1:AA:166:G:H22	1.85	0.40
1:AA:159:G:H2'	1:AA:161:A:OP2	2.21	0.40
1:AA:194:C:H5''	20:AT:65:LYS:CE	2.50	0.40
1:AA:219:C:H2'	1:AA:220:G:O5'	2.21	0.40
1:AA:341:C:N3	1:AA:349:A:C2	2.89	0.40
1:AA:405:U:H5''	1:AA:406:G:O4'	2.21	0.40
1:AA:418:C:C2'	1:AA:419:C:O5'	2.69	0.40
1:AA:514:C:O2	1:AA:538:G:C2	2.75	0.40
1:AA:652:U:O2'	1:AA:653:A:C5'	2.66	0.40
1:AA:1240:U:H3'	1:AA:1241:G:H5'	2.03	0.40
1:AA:1416:G:C5	1:AA:1417:G:C5	3.09	0.40
1:AA:1434:A:C2'	1:AA:1435:G:C8	3.00	0.40
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.55	0.40
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.47	0.40
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.21	0.40
4:AD:60:GLU:C	4:AD:203:VAL:HG22	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.75	0.40
7:AG:31:MET:SD	7:AG:36:LYS:CA	3.10	0.40
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	2.04	0.40
11:AK:21:ILE:N	11:AK:21:ILE:CD1	2.85	0.40
11:AK:102:GLY:O	11:AK:103:LEU:HD22	2.22	0.40
13:AM:40:ASN:OD1	13:AM:41:PRO:CD	2.65	0.40
13:AM:44:ARG:O	13:AM:46:LYS:N	2.54	0.40
13:AM:45:VAL:HA	13:AM:48:LEU:CD1	2.39	0.40
14:AN:4:LYS:C	14:AN:6:LEU:N	2.78	0.40
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.37	0.40
16:AP:51:VAL:O	16:AP:53:VAL:N	2.53	0.40
17:AQ:27:PHE:CD1	17:AQ:27:PHE:O	2.75	0.40
19:AS:5:LEU:HD12	19:AS:8:GLY:C	2.46	0.40
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.85	0.40
22:AW:8:U:O4	22:AW:15:G:O6	2.40	0.40
24:AY:1:G:N3	24:AY:1:G:C2'	2.82	0.40
25:AZ:98:GLN:O	25:AZ:98:GLN:CG	2.63	0.40
25:AZ:147:LEU:N	25:AZ:147:LEU:HD22	2.35	0.40
25:AZ:155:ARG:HB3	25:AZ:165:GLY:O	2.22	0.40
25:AZ:310:ILE:HD11	25:AZ:381:GLU:CD	2.47	0.40
30:B4:4:GLY:N	30:B4:6:HIS:CE1	2.90	0.40
31:B5:22:HIS:C	31:B5:24:ALA:H	2.29	0.40
32:B6:22:ALA:CB	32:B6:39:TYR:CZ	3.04	0.40
33:B7:10:ARG:HD3	36:BA:771:G:OP1	2.22	0.40
33:B7:20:ALA:C	33:B7:22:MET:H	2.28	0.40
36:BA:271(F):C:C2'	36:BA:271(G):C:H5'	2.51	0.40
36:BA:274:G:N3	36:BA:274:G:C2'	2.84	0.40
36:BA:405:U:O2	36:BA:405:U:O4'	2.38	0.40
36:BA:479:A:H1'	36:BA:481:G:H5''	2.02	0.40
36:BA:539:G:H2'	36:BA:540:C:C6	2.56	0.40
36:BA:811:U:H6	48:BP:24:GLY:C	2.29	0.40
36:BA:864:G:OP2	49:BQ:22:LYS:HG3	2.21	0.40
36:BA:940:G:C3'	36:BA:941:A:H5''	2.52	0.40
36:BA:1062:G:N1	36:BA:1063:G:H1'	2.36	0.40
36:BA:1485:G:O2'	36:BA:1505:C:N4	2.54	0.40
36:BA:1664:A:N6	36:BA:1996:C:H42	2.17	0.40
36:BA:2037:G:O5'	36:BA:2037:G:H8	2.04	0.40
36:BA:2122:U:C2	36:BA:2123:G:N7	2.89	0.40
36:BA:2123:G:C4	36:BA:2124:G:C8	3.09	0.40
36:BA:2181:G:O2'	36:BA:2182:G:H5'	2.22	0.40
36:BA:2358:G:C2	36:BA:2359:C:H1'	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:2575:C:H5''	36:BA:2576:G:OP2	2.22	0.40
36:BA:2881:C:C2	36:BA:2882:A:N7	2.90	0.40
36:BA:2889:C:H2'	36:BA:2891:G:O4'	2.22	0.40
38:BC:18:LYS:HE3	38:BC:20:TYR:CD2	2.56	0.40
38:BC:61:THR:O	38:BC:163:PHE:HE2	2.03	0.40
38:BC:152:ILE:O	38:BC:156:ILE:HG13	2.21	0.40
39:BD:267:SER:HA	39:BD:270:ILE:HG13	2.02	0.40
40:BE:51:PHE:O	40:BE:52:LEU:C	2.63	0.40
41:BF:25:PRO:HB3	41:BF:119:ARG:HB2	2.03	0.40
41:BF:198:ALA:HA	41:BF:201:VAL:CG1	2.51	0.40
42:BG:26:GLN:HG2	42:BG:27:ASN:H	1.87	0.40
42:BG:37:VAL:HG13	42:BG:159:VAL:HA	2.03	0.40
46:BN:47:ALA:HB1	46:BN:119:ARG:NH1	2.37	0.40
49:BQ:118:LEU:CD1	49:BQ:131:ILE:HG23	2.51	0.40
50:BR:52:ILE:C	50:BR:55:ALA:H	2.30	0.40
51:BS:98:VAL:O	51:BS:99:LYS:HB2	2.21	0.40
52:BT:22:PHE:O	52:BT:23:ARG:HB3	2.20	0.40
54:BV:9:GLY:C	54:BV:10:LYS:HG3	2.47	0.40
54:BV:58:VAL:HB	54:BV:97:LYS:HB2	2.04	0.40
54:BV:69:LYS:HB2	54:BV:88:ARG:CD	2.42	0.40
55:BW:80:PRO:O	55:BW:80:PRO:HG2	2.21	0.40
56:BX:57:LEU:HD22	56:BX:57:LEU:C	2.45	0.40
58:BZ:88:PHE:N	58:BZ:88:PHE:CD1	2.90	0.40
1:CA:57:G:N1	1:CA:356:A:N1	2.70	0.40
1:CA:161:A:H2'	1:CA:162:A:C8	2.57	0.40
1:CA:343:U:O2'	1:CA:346:G:O6	2.37	0.40
1:CA:390:C:C4'	16:CP:28:ARG:NH1	2.83	0.40
1:CA:438:G:H4'	4:CD:123:HIS:HD1	1.87	0.40
1:CA:446:G:O2'	1:CA:447:G:H5'	2.20	0.40
1:CA:472:A:C8	1:CA:473:G:C8	3.10	0.40
1:CA:495:A:C2	1:CA:496:A:C5	3.10	0.40
1:CA:601:C:C2	1:CA:638:G:N2	2.90	0.40
1:CA:681:C:H2'	1:CA:682:G:H8	1.86	0.40
1:CA:734:G:O5'	1:CA:734:G:H8	2.04	0.40
1:CA:799:G:C6	1:CA:800:G:C4	3.10	0.40
1:CA:892:A:C4	1:CA:893:C:C5	3.09	0.40
1:CA:1056:U:OP1	3:CC:163:ALA:HB2	2.22	0.40
1:CA:1114:C:C2	1:CA:1115:C:C5	3.09	0.40
1:CA:1163:C:N3	1:CA:1174:G:C2	2.90	0.40
1:CA:1316:G:H3'	1:CA:1317:C:C5'	2.52	0.40
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:98:LEU:HG	2:CB:101:MET:HE3	2.03	0.40
2:CB:131:PRO:C	2:CB:133:LYS:N	2.78	0.40
2:CB:194:PRO:HG2	2:CB:195:ASP:N	2.32	0.40
2:CB:208:ILE:H	2:CB:208:ILE:HG13	1.75	0.40
2:CB:208:ILE:O	2:CB:209:ARG:C	2.64	0.40
3:CC:7:PRO:O	3:CC:8:ILE:C	2.64	0.40
3:CC:30:ARG:HD3	14:CN:38:GLY:HA3	2.03	0.40
3:CC:57:ILE:O	3:CC:57:ILE:HG22	2.20	0.40
3:CC:112:SER:HA	3:CC:183:ASP:OD1	2.22	0.40
4:CD:55:ALA:O	4:CD:56:VAL:C	2.64	0.40
4:CD:110:PHE:N	4:CD:110:PHE:CD1	2.89	0.40
9:CI:15:ALA:HA	9:CI:65:VAL:HA	2.03	0.40
10:CJ:56:HIS:C	10:CJ:58:ASP:N	2.80	0.40
10:CJ:82:ILE:C	10:CJ:84:GLN:N	2.79	0.40
11:CK:23:ALA:HB2	11:CK:28:THR:HG23	2.03	0.40
11:CK:90:GLY:O	11:CK:91:ARG:C	2.64	0.40
12:CL:33:ARG:O	12:CL:85:ILE:HB	2.22	0.40
13:CM:99:ARG:O	13:CM:100:GLY:O	2.39	0.40
14:CN:12:ARG:HB3	14:CN:14:PRO:CD	2.51	0.40
14:CN:45:ARG:HG3	14:CN:49:HIS:CE1	2.57	0.40
16:CP:5:ARG:HB2	16:CP:6:LEU:H	1.66	0.40
17:CQ:6:LEU:HB3	17:CQ:23:VAL:HG11	2.03	0.40
19:CS:10:PHE:CE1	19:CS:39:THR:OG1	2.74	0.40
22:CV:68:C:H3'	22:CV:69:G:H5''	1.99	0.40
22:CW:31:A:N1	22:CW:40:C:C4	2.89	0.40
23:CX:22:A:C4	23:CX:23:C:C5	3.09	0.40
24:CY:42:U:H5'	24:CY:42:U:H6	1.86	0.40
25:CZ:238:ALA:O	25:CZ:287:GLY:HA2	2.21	0.40
25:CZ:323:LEU:HG	25:CZ:327:GLU:HB2	2.04	0.40
27:D1:86:SER:CB	27:D1:89:GLU:CD	2.95	0.40
32:D6:19:ARG:CG	32:D6:20:ASN:N	2.70	0.40
33:D7:9:ARG:O	33:D7:10:ARG:C	2.65	0.40
34:D8:6:THR:HG21	34:D8:11:LYS:HZ3	1.87	0.40
34:D8:13:ARG:HB3	48:DP:63:PRO:CA	2.51	0.40
36:DA:9:U:O2'	36:DA:10:G:H8	2.05	0.40
36:DA:240:G:O2'	36:DA:257:A:N6	2.55	0.40
36:DA:340:A:H2'	36:DA:341:G:O4'	2.22	0.40
36:DA:426:C:C2'	36:DA:427:U:H5'	2.52	0.40
36:DA:751:A:H5'	55:DW:90:ARG:CA	2.45	0.40
36:DA:979:G:C2	36:DA:982:C:H5	2.40	0.40
36:DA:1226:A:N7	36:DA:1227:G:H1'	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1291:C:C3'	36:DA:1292:U:H5'	2.50	0.40
36:DA:1599:C:C2	36:DA:1600:C:C5	3.09	0.40
36:DA:1836:C:O2'	36:DA:1837:C:H5'	2.22	0.40
36:DA:1862:G:N2	36:DA:1881:C:O2	2.55	0.40
36:DA:2011:U:OP2	55:DW:16:LYS:HE3	2.21	0.40
36:DA:2043:C:H2'	36:DA:2044:C:H6	1.86	0.40
36:DA:2111:C:C4	36:DA:2145:C:C2	3.10	0.40
36:DA:2315:G:H2'	36:DA:2316:C:H6	1.86	0.40
36:DA:2710:C:H2'	36:DA:2711:A:O4'	2.21	0.40
36:DA:2756:U:O2'	36:DA:2757:A:C5'	2.69	0.40
36:DA:2870:C:H2'	36:DA:2871:C:C5'	2.52	0.40
37:DB:29:A:C2	37:DB:56:G:C2	3.10	0.40
37:DB:68:C:C2	37:DB:69:G:C8	3.09	0.40
37:DB:104:U:H1'	58:DZ:29:TYR:OH	2.21	0.40
38:DC:131:LEU:HD22	38:DC:136:LEU:HD13	2.03	0.40
38:DC:206:GLY:CA	38:DC:210:ARG:HH22	2.19	0.40
39:DD:8:PRO:HB3	39:DD:14:ARG:HB3	2.02	0.40
41:DF:83:PHE:O	41:DF:84:VAL:C	2.64	0.40
46:DN:62:VAL:O	46:DN:63:THR:O	2.39	0.40
49:DQ:59:ARG:HG3	49:DQ:59:ARG:HH11	1.86	0.40
49:DQ:134:ARG:O	49:DQ:137:TYR:HB2	2.22	0.40
50:DR:32:GLY:HA3	50:DR:116:LEU:HG	1.99	0.40
51:DS:27:SER:C	51:DS:28:VAL:HG23	2.46	0.40
51:DS:85:VAL:CG2	51:DS:86:ALA:N	2.84	0.40
52:DT:19:LEU:H	52:DT:19:LEU:HG	1.74	0.40
52:DT:91:ARG:O	52:DT:117:ASP:HB3	2.21	0.40
53:DU:88:ILE:CB	53:DU:90:VAL:HG23	2.49	0.40
54:DV:38:LEU:O	54:DV:51:VAL:HG12	2.21	0.40
55:DW:14:PRO:HG2	55:DW:78:GLU:OE1	2.22	0.40
56:DX:11:PRO:HG2	56:DX:13:LEU:CD2	2.51	0.40
56:DX:60:ARG:HA	56:DX:75:ASP:OD2	2.21	0.40
57:DY:85:VAL:CG1	57:DY:86:ARG:N	2.83	0.40
58:DZ:125:LEU:HD12	58:DZ:126:VAL:N	2.36	0.40
1:AA:15:G:H1	1:AA:920:U:H3	1.70	0.40
1:AA:34:C:C1'	12:AL:32:PHE:HE2	2.35	0.40
1:AA:218:C:C5'	1:AA:470:C:H42	2.33	0.40
1:AA:292:G:H1	1:AA:308:C:N4	2.18	0.40
1:AA:424:G:C2	1:AA:425:G:C5	3.09	0.40
1:AA:517:G:C5	1:AA:531:U:O4'	2.75	0.40
1:AA:935:A:C2	1:AA:936:C:C4	3.10	0.40
1:AA:940:C:H6	1:AA:940:C:O5'	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.36	0.40
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.87	0.40
2:AB:92:TYR:CD1	2:AB:93:VAL:N	2.89	0.40
3:AC:58:GLU:O	3:AC:65:ALA:HB2	2.22	0.40
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.51	0.40
5:AE:133:TYR:HD2	5:AE:133:TYR:HA	1.73	0.40
5:AE:137:GLU:O	5:AE:140:ARG:HB3	2.21	0.40
8:AH:1:MET:O	8:AH:2:LEU:O	2.40	0.40
10:AJ:56:HIS:O	10:AJ:57:LYS:C	2.64	0.40
11:AK:23:ALA:HA	11:AK:28:THR:HA	2.04	0.40
16:AP:50:LYS:O	16:AP:51:VAL:HG22	2.21	0.40
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.64	0.40
20:AT:30:LYS:C	20:AT:32:ALA:H	2.30	0.40
20:AT:71:THR:CG2	20:AT:72:LEU:H	2.34	0.40
20:AT:89:ARG:C	20:AT:91:LEU:N	2.78	0.40
20:AT:100:ILE:N	20:AT:100:ILE:CD1	2.84	0.40
22:AW:62:C:O2'	22:AW:63:G:H5'	2.22	0.40
24:AY:54:5MU:H73	24:AY:55:PSU:O2	2.22	0.40
25:AZ:126:VAL:O	25:AZ:127:GLY:C	2.64	0.40
27:B1:68:PRO:HG2	27:B1:69:LYS:H	1.86	0.40
27:B1:86:SER:O	27:B1:89:GLU:N	2.43	0.40
28:B2:38:GLN:HB3	28:B2:44:LEU:HD22	2.04	0.40
29:B3:45:GLY:C	29:B3:47:VAL:H	2.29	0.40
29:B3:54:VAL:HG12	29:B3:55:ARG:N	2.36	0.40
34:B8:4:MET:HE3	34:B8:61:LEU:CD2	2.50	0.40
36:BA:99:U:H4'	36:BA:102:G:H1'	2.03	0.40
36:BA:203:C:N4	36:BA:204:A:C6	2.89	0.40
36:BA:292:C:C2'	36:BA:293:U:H5'	2.51	0.40
36:BA:296:C:N4	36:BA:343:C:N4	2.70	0.40
36:BA:383:U:C6	36:BA:385:C:C5	3.09	0.40
36:BA:687:C:C5	36:BA:688:U:C4	3.10	0.40
36:BA:693:C:C4	36:BA:694:U:C4	3.10	0.40
36:BA:952:G:C5'	49:BQ:16:ARG:HH22	2.35	0.40
36:BA:966:G:C1'	36:BA:2267:A:N6	2.83	0.40
36:BA:980:A:C5	36:BA:981:A:C2	3.10	0.40
36:BA:1209:G:O3'	36:BA:1212:G:H5'	2.22	0.40
36:BA:1450:G:H2'	36:BA:1450(A):C:H6	1.87	0.40
36:BA:1488:G:C6	36:BA:1489:U:C4	3.10	0.40
36:BA:1772:G:H2'	36:BA:1773:A:H4'	2.02	0.40
36:BA:1785:A:C2	36:BA:2588:G:N2	2.90	0.40
36:BA:1788:C:C2'	36:BA:1789:A:H5'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BA:1889:A:H1'	36:BA:2087:G:O4'	2.21	0.40
36:BA:1930:G:HO2'	36:BA:1931:U:P	2.43	0.40
36:BA:2313:C:C6	36:BA:2313:C:C3'	3.05	0.40
36:BA:2406:U:O4	48:BP:72:PRO:HD2	2.22	0.40
36:BA:2468:G:H2'	36:BA:2476:A:N7	2.36	0.40
36:BA:2476:A:H2'	36:BA:2476:A:N3	2.35	0.40
36:BA:2521:C:O2	36:BA:2521:C:H2'	2.22	0.40
36:BA:2640:G:H5''	46:BN:74:ARG:HD2	2.02	0.40
36:BA:2740:A:C6	36:BA:2741:A:C6	3.09	0.40
36:BA:2787:C:H1'	40:BE:61:ARG:CD	2.51	0.40
36:BA:2880:C:O2	50:BR:92:GLY:HA3	2.21	0.40
37:BB:19:G:H3'	37:BB:20:C:H6	1.87	0.40
37:BB:73:A:C6	37:BB:74:U:C2	3.09	0.40
38:BC:171:ILE:HG12	38:BC:196:LEU:HD21	2.04	0.40
38:BC:178:ALA:O	38:BC:179:SER:C	2.64	0.40
38:BC:191:ALA:HA	38:BC:194:ARG:NE	2.37	0.40
39:BD:72:LYS:HB3	39:BD:75:ILE:HB	2.03	0.40
39:BD:147:LEU:CG	39:BD:183:ARG:HH12	2.29	0.40
40:BE:98:PRO:HD3	40:BE:175:VAL:CG1	2.51	0.40
41:BF:154:VAL:HG22	41:BF:191:ARG:O	2.22	0.40
47:BO:31:LYS:HB3	47:BO:32:TYR:CE1	2.56	0.40
48:BP:52:GLU:HG3	48:BP:53:GLY:H	1.87	0.40
48:BP:56:SER:O	48:BP:57:THR:C	2.65	0.40
48:BP:80:TYR:N	48:BP:80:TYR:HD2	2.19	0.40
48:BP:110:TYR:CE1	48:BP:111:ARG:CZ	3.05	0.40
49:BQ:129:THR:O	49:BQ:130:LYS:HB2	2.21	0.40
52:BT:25:GLY:O	52:BT:48:ILE:HG22	2.21	0.40
52:BT:32:TYR:O	52:BT:42:ILE:HA	2.22	0.40
53:BU:5:LYS:HE2	53:BU:7:GLY:H	1.86	0.40
53:BU:92:ARG:NH2	54:BV:10:LYS:CA	2.83	0.40
55:BW:29:LEU:HG	55:BW:33:ARG:CD	2.52	0.40
55:BW:80:PRO:O	55:BW:100:THR:CG2	2.70	0.40
56:BX:35:THR:O	56:BX:39:ILE:HB	2.21	0.40
57:BY:6:HIS:NE2	57:BY:30:VAL:HG11	2.37	0.40
1:CA:39:G:C2'	1:CA:40:C:H5'	2.52	0.40
1:CA:242:C:C2'	1:CA:243:A:H5'	2.50	0.40
1:CA:266:G:O2'	1:CA:267:C:OP2	2.32	0.40
1:CA:368:U:H5	25:CZ:234:ARG:CD	2.03	0.40
1:CA:687:A:H4'	1:CA:688:G:O5'	2.21	0.40
1:CA:697:U:C4'	1:CA:786:G:H4'	2.51	0.40
1:CA:973:G:O6	1:CA:974:A:N6	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:991:U:H6	1:CA:991:U:OP2	2.03	0.40
1:CA:1004:A:O5'	1:CA:1025:U:C5	2.74	0.40
1:CA:1014:A:H4'	19:CS:14:HIS:CD2	2.56	0.40
1:CA:1016:A:H2'	1:CA:1017:G:H5'	2.04	0.40
1:CA:1110:A:H2'	1:CA:1111:A:O4'	2.22	0.40
1:CA:1133:G:N3	1:CA:1142:G:N2	2.70	0.40
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.86	0.40
2:CB:25:ASN:HA	2:CB:26:PRO:HD2	1.86	0.40
2:CB:171:ALA:HA	2:CB:174:VAL:HB	2.02	0.40
4:CD:121:VAL:O	4:CD:134:ASP:CA	2.67	0.40
7:CG:16:LEU:HD11	9:CI:42:ARG:HA	1.96	0.40
7:CG:149:ARG:C	7:CG:151:TYR:N	2.77	0.40
9:CI:37:PHE:CE2	9:CI:74:ILE:HD11	2.56	0.40
10:CJ:76:ASN:HA	10:CJ:77:PRO:HD2	1.95	0.40
11:CK:101:SER:OG	11:CK:103:LEU:HD23	2.20	0.40
12:CL:55:VAL:CG2	12:CL:56:ALA:N	2.84	0.40
12:CL:123:LYS:O	12:CL:125:PRO:HD3	2.21	0.40
13:CM:49:THR:HB	13:CM:52:GLU:CG	2.43	0.40
16:CP:20:VAL:C	16:CP:36:ILE:HD11	2.46	0.40
17:CQ:31:LEU:HG	17:CQ:32:TYR:CD2	2.57	0.40
17:CQ:60:ILE:HG12	17:CQ:61:GLU:N	2.37	0.40
20:CT:100:ILE:N	20:CT:100:ILE:CD1	2.85	0.40
21:CU:18:TYR:CD1	21:CU:24:ARG:HG3	2.56	0.40
23:CX:27:A:OP2	23:CX:27:A:C8	2.74	0.40
25:CZ:310:ILE:HG13	25:CZ:381:GLU:HB3	2.04	0.40
25:CZ:311:THR:HB	25:CZ:312:PRO:HD2	2.04	0.40
28:D2:28:LYS:O	28:D2:29:LYS:C	2.64	0.40
28:D2:61:LEU:C	28:D2:63:VAL:N	2.78	0.40
31:D5:16:ARG:HH11	31:D5:20:ARG:HH11	1.57	0.40
32:D6:45:LYS:N	32:D6:45:LYS:HD2	2.17	0.40
34:D8:30:ARG:HA	34:D8:30:ARG:HE	1.83	0.40
36:DA:374:A:C6	36:DA:375:C:C2	3.09	0.40
36:DA:555:U:O2	36:DA:556:G:N7	2.55	0.40
36:DA:754:C:H2'	36:DA:755:C:C5	2.56	0.40
36:DA:757:U:H2'	36:DA:758:C:H6	1.87	0.40
36:DA:783:A:C2'	36:DA:784:A:O5'	2.70	0.40
36:DA:993:G:C5	36:DA:994:C:H5	2.40	0.40
36:DA:1065:U:H4'	36:DA:1065:U:OP1	2.21	0.40
36:DA:1092:C:N4	36:DA:1093:G:C2	2.89	0.40
36:DA:1210:A:H4'	36:DA:1211:U:O5'	2.21	0.40
36:DA:1346:G:H2'	36:DA:1347:G:C8	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DA:1435:G:H1	36:DA:1557:C:N4	2.12	0.40
36:DA:1452:A:H1'	50:DR:77:ARG:HH22	1.86	0.40
36:DA:1494:A:O2'	36:DA:1496:A:C2	2.74	0.40
36:DA:1632:A:C5	36:DA:1633:G:C6	3.10	0.40
36:DA:1652:A:O2'	36:DA:1653:G:H5'	2.20	0.40
36:DA:1653:G:O2'	50:DR:3:HIS:HB2	2.22	0.40
36:DA:1815:A:P	39:DD:54:ARG:HH22	2.44	0.40
36:DA:2132:U:O4	38:DC:5:LYS:HE3	2.22	0.40
36:DA:2146:C:H5'	36:DA:2147:G:C2	2.56	0.40
36:DA:2176:A:H8	36:DA:2176:A:H5''	1.87	0.40
36:DA:2234:G:O2'	36:DA:2235:G:H5'	2.22	0.40
36:DA:2358:G:C2	36:DA:2359:C:H1'	2.51	0.40
36:DA:2455:G:C2	36:DA:2498:C:N4	2.90	0.40
36:DA:2669:G:C2	36:DA:2670:A:C5	3.09	0.40
38:DC:63:SER:OG	38:DC:160:ARG:HG3	2.21	0.40
38:DC:177:LYS:O	38:DC:180:PHE:HD1	2.05	0.40
39:DD:88:ARG:HH11	39:DD:88:ARG:HG2	1.87	0.40
39:DD:233:HIS:O	39:DD:234:GLY:O	2.40	0.40
39:DD:252:TRP:CD1	39:DD:252:TRP:N	2.88	0.40
40:DE:165:VAL:CG1	40:DE:166:THR:N	2.79	0.40
41:DF:31:HIS:O	41:DF:33:LEU:N	2.54	0.40
43:DH:149:ARG:O	43:DH:149:ARG:HG2	2.22	0.40
44:DJ:55:UNK:O	44:DJ:84:UNK:N	2.55	0.40
46:DN:107:LEU:C	46:DN:108:PRO:O	2.63	0.40
48:DP:31:ALA:C	48:DP:33:ARG:N	2.80	0.40
48:DP:126:VAL:CG1	48:DP:145:PRO:HB2	2.45	0.40
50:DR:75:LEU:O	50:DR:79:LEU:HB2	2.21	0.40
51:DS:30:ARG:NH1	51:DS:35:ILE:HB	2.35	0.40
51:DS:93:LYS:O	51:DS:94:TYR:C	2.64	0.40
52:DT:48:ILE:O	52:DT:63:VAL:HA	2.21	0.40
54:DV:75:PHE:CD2	54:DV:82:ARG:HG3	2.56	0.40
58:DZ:8:TYR:O	58:DZ:9:TYR:O	2.40	0.40
58:DZ:10:ARG:HG2	58:DZ:12:GLY:H	1.86	0.40
58:DZ:30:ASN:O	58:DZ:32:HIS:N	2.55	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:65:GLY:O	38:BC:27:ARG:NH2[2_445]	1.63	0.57
2:CB:65:GLY:O	38:DC:27:ARG:NH2[2_646]	1.66	0.54

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%)	116 (50%)	72 (31%)	45 (19%)	0	1
2	CB	233/256 (91%)	115 (49%)	74 (32%)	44 (19%)	0	1
3	AC	205/239 (86%)	117 (57%)	52 (25%)	36 (18%)	0	1
3	CC	205/239 (86%)	113 (55%)	57 (28%)	35 (17%)	0	2
4	AD	206/209 (99%)	123 (60%)	49 (24%)	34 (16%)	0	2
4	CD	206/209 (99%)	122 (59%)	48 (23%)	36 (18%)	0	1
5	AE	149/162 (92%)	101 (68%)	33 (22%)	15 (10%)	0	5
5	CE	149/162 (92%)	98 (66%)	37 (25%)	14 (9%)	0	6
6	AF	99/101 (98%)	70 (71%)	20 (20%)	9 (9%)	0	6
6	CF	99/101 (98%)	69 (70%)	21 (21%)	9 (9%)	0	6
7	AG	153/156 (98%)	86 (56%)	35 (23%)	32 (21%)	0	1
7	CG	153/156 (98%)	86 (56%)	37 (24%)	30 (20%)	0	1
8	AH	136/138 (99%)	88 (65%)	34 (25%)	14 (10%)	0	5
8	CH	136/138 (99%)	89 (65%)	35 (26%)	12 (9%)	0	7
9	AI	125/128 (98%)	80 (64%)	27 (22%)	18 (14%)	0	3
9	CI	125/128 (98%)	80 (64%)	27 (22%)	18 (14%)	0	3
10	AJ	97/105 (92%)	63 (65%)	20 (21%)	14 (14%)	0	3
10	CJ	97/105 (92%)	63 (65%)	20 (21%)	14 (14%)	0	3
11	AK	117/129 (91%)	80 (68%)	29 (25%)	8 (7%)	1	11
11	CK	117/129 (91%)	77 (66%)	32 (27%)	8 (7%)	1	11
12	AL	123/135 (91%)	71 (58%)	32 (26%)	20 (16%)	0	2
12	CL	123/135 (91%)	73 (59%)	31 (25%)	19 (15%)	0	2
13	AM	123/126 (98%)	58 (47%)	39 (32%)	26 (21%)	0	1
13	CM	123/126 (98%)	58 (47%)	39 (32%)	26 (21%)	0	1
14	AN	58/61 (95%)	28 (48%)	17 (29%)	13 (22%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/61 (95%)	29 (50%)	14 (24%)	15 (26%)	0	0
15	AO	86/89 (97%)	54 (63%)	16 (19%)	16 (19%)	0	1
15	CO	86/89 (97%)	55 (64%)	15 (17%)	16 (19%)	0	1
16	AP	82/88 (93%)	50 (61%)	18 (22%)	14 (17%)	0	2
16	CP	82/88 (93%)	50 (61%)	18 (22%)	14 (17%)	0	2
17	AQ	98/105 (93%)	70 (71%)	21 (21%)	7 (7%)	1	10
17	CQ	98/105 (93%)	69 (70%)	21 (21%)	8 (8%)	0	8
18	AR	68/88 (77%)	39 (57%)	17 (25%)	12 (18%)	0	1
18	CR	68/88 (77%)	39 (57%)	17 (25%)	12 (18%)	0	1
19	AS	77/93 (83%)	39 (51%)	27 (35%)	11 (14%)	0	3
19	CS	77/93 (83%)	39 (51%)	27 (35%)	11 (14%)	0	3
20	AT	97/106 (92%)	49 (50%)	30 (31%)	18 (19%)	0	1
20	CT	97/106 (92%)	50 (52%)	29 (30%)	18 (19%)	0	1
21	AU	23/27 (85%)	10 (44%)	7 (30%)	6 (26%)	0	0
21	CU	23/27 (85%)	10 (44%)	8 (35%)	5 (22%)	0	0
25	AZ	370/406 (91%)	254 (69%)	77 (21%)	39 (10%)	0	5
25	CZ	370/406 (91%)	252 (68%)	81 (22%)	37 (10%)	0	5
26	B0	82/85 (96%)	54 (66%)	20 (24%)	8 (10%)	0	6
26	D0	82/85 (96%)	54 (66%)	20 (24%)	8 (10%)	0	6
27	B1	92/98 (94%)	55 (60%)	22 (24%)	15 (16%)	0	2
27	D1	92/98 (94%)	54 (59%)	25 (27%)	13 (14%)	0	3
28	B2	69/72 (96%)	43 (62%)	10 (14%)	16 (23%)	0	0
28	D2	69/72 (96%)	44 (64%)	14 (20%)	11 (16%)	0	2
29	B3	58/60 (97%)	28 (48%)	15 (26%)	15 (26%)	0	0
29	D3	58/60 (97%)	28 (48%)	16 (28%)	14 (24%)	0	0
30	B4	43/71 (61%)	20 (46%)	15 (35%)	8 (19%)	0	1
30	D4	43/71 (61%)	20 (46%)	15 (35%)	8 (19%)	0	1
31	B5	57/60 (95%)	33 (58%)	13 (23%)	11 (19%)	0	1
31	D5	57/60 (95%)	32 (56%)	14 (25%)	11 (19%)	0	1
32	B6	48/54 (89%)	17 (35%)	14 (29%)	17 (35%)	0	0
32	D6	48/54 (89%)	18 (38%)	14 (29%)	16 (33%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	B7	47/49 (96%)	27 (57%)	12 (26%)	8 (17%)	0	2
33	D7	47/49 (96%)	27 (57%)	12 (26%)	8 (17%)	0	2
34	B8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	1
34	D8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	1
35	B9	35/37 (95%)	18 (51%)	9 (26%)	8 (23%)	0	0
35	D9	35/37 (95%)	18 (51%)	10 (29%)	7 (20%)	0	1
38	BC	226/229 (99%)	143 (63%)	53 (24%)	30 (13%)	0	3
38	DC	226/229 (99%)	141 (62%)	55 (24%)	30 (13%)	0	3
39	BD	273/276 (99%)	176 (64%)	63 (23%)	34 (12%)	0	4
39	DD	273/276 (99%)	172 (63%)	66 (24%)	35 (13%)	0	3
40	BE	203/206 (98%)	109 (54%)	45 (22%)	49 (24%)	0	0
40	DE	203/206 (98%)	108 (53%)	46 (23%)	49 (24%)	0	0
41	BF	206/210 (98%)	120 (58%)	47 (23%)	39 (19%)	0	1
41	DF	206/210 (98%)	121 (59%)	46 (22%)	39 (19%)	0	1
42	BG	179/182 (98%)	86 (48%)	52 (29%)	41 (23%)	0	0
42	DG	179/182 (98%)	96 (54%)	45 (25%)	38 (21%)	0	1
43	BH	158/180 (88%)	98 (62%)	36 (23%)	24 (15%)	0	2
43	DH	158/180 (88%)	99 (63%)	35 (22%)	24 (15%)	0	2
46	BN	137/140 (98%)	75 (55%)	39 (28%)	23 (17%)	0	2
46	DN	137/140 (98%)	74 (54%)	40 (29%)	23 (17%)	0	2
47	BO	120/122 (98%)	91 (76%)	17 (14%)	12 (10%)	0	5
47	DO	120/122 (98%)	93 (78%)	15 (12%)	12 (10%)	0	5
48	BP	144/150 (96%)	72 (50%)	35 (24%)	37 (26%)	0	0
48	DP	144/150 (96%)	71 (49%)	35 (24%)	38 (26%)	0	0
49	BQ	139/141 (99%)	77 (55%)	46 (33%)	16 (12%)	0	4
49	DQ	139/141 (99%)	81 (58%)	39 (28%)	19 (14%)	0	3
50	BR	115/118 (98%)	68 (59%)	25 (22%)	22 (19%)	0	1
50	DR	115/118 (98%)	70 (61%)	23 (20%)	22 (19%)	0	1
51	BS	97/112 (87%)	37 (38%)	35 (36%)	25 (26%)	0	0
51	DS	97/112 (87%)	36 (37%)	37 (38%)	24 (25%)	0	0
52	BT	136/146 (93%)	63 (46%)	40 (29%)	33 (24%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	DT	136/146 (93%)	63 (46%)	40 (29%)	33 (24%)	0	0
53	BU	115/118 (98%)	69 (60%)	34 (30%)	12 (10%)	0	5
53	DU	115/118 (98%)	66 (57%)	37 (32%)	12 (10%)	0	5
54	BV	99/101 (98%)	61 (62%)	19 (19%)	19 (19%)	0	1
54	DV	99/101 (98%)	61 (62%)	18 (18%)	20 (20%)	0	1
55	BW	111/113 (98%)	73 (66%)	24 (22%)	14 (13%)	0	4
55	DW	111/113 (98%)	74 (67%)	23 (21%)	14 (13%)	0	4
56	BX	91/96 (95%)	55 (60%)	20 (22%)	16 (18%)	0	1
56	DX	91/96 (95%)	54 (59%)	22 (24%)	15 (16%)	0	2
57	BY	99/110 (90%)	37 (37%)	29 (29%)	33 (33%)	0	0
57	DY	99/110 (90%)	38 (38%)	28 (28%)	33 (33%)	0	0
58	BZ	174/206 (84%)	87 (50%)	47 (27%)	40 (23%)	0	0
58	DZ	174/206 (84%)	96 (55%)	41 (24%)	37 (21%)	0	1
All	All	12280/13108 (94%)	7151 (58%)	3059 (25%)	2070 (17%)	0	2

All (2070) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	19	HIS
2	AB	76	GLN
2	AB	77	ALA
2	AB	93	VAL
2	AB	98	LEU
2	AB	152	PHE
2	AB	190	THR
2	AB	195	ASP
2	AB	216	SER
2	AB	224	GLN
2	AB	229	VAL
2	AB	238	LEU
3	AC	14	ILE
3	AC	95	THR
3	AC	107	GLN
3	AC	154	SER
3	AC	207	VAL
4	AD	3	ARG

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Mol	Chain	Res	Type
4	AD	18	LYS
4	AD	30	LYS
4	AD	35	ARG
4	AD	54	TYR
4	AD	55	ALA
4	AD	72	GLU
4	AD	91	SER
4	AD	92	VAL
4	AD	129	ASN
4	AD	159	ARG
4	AD	189	PRO
5	AE	21	ALA
5	AE	137	GLU
5	AE	153	LYS
6	AF	12	PRO
7	AG	6	ARG
7	AG	37	ASN
7	AG	80	VAL
7	AG	90	GLU
7	AG	105	VAL
7	AG	118	VAL
7	AG	121	ALA
7	AG	136	LYS
7	AG	153	HIS
8	AH	20	TYR
8	AH	26	VAL
8	AH	83	ILE
9	AI	23	ASN
9	AI	33	PHE
9	AI	46	ALA
9	AI	58	HIS
10	AJ	13	HIS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	89	ASP
10	AJ	90	LEU
11	AK	40	ILE
11	AK	95	ILE
12	AL	28	LYS
12	AL	46	LYS
12	AL	47	LYS
12	AL	91	LYS

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Mol	Chain	Res	Type
12	AL	92	ASP
12	AL	94	PRO
12	AL	95	GLY
12	AL	116	SER
12	AL	120	TYR
12	AL	122	THR
13	AM	10	PRO
13	AM	11	ARG
13	AM	12	ASN
13	AM	67	GLU
13	AM	90	LEU
13	AM	107	ALA
13	AM	116	THR
13	AM	124	PRO
13	AM	125	ARG
14	AN	14	PRO
14	AN	15	LYS
14	AN	19	ARG
14	AN	20	ALA
14	AN	26	ARG
14	AN	56	VAL
14	AN	59	ALA
15	AO	81	LEU
15	AO	82	ILE
15	AO	85	LEU
16	AP	11	SER
16	AP	17	TYR
16	AP	24	ALA
17	AQ	4	LYS
18	AR	45	SER
18	AR	46	GLU
18	AR	50	ILE
18	AR	54	ARG
18	AR	60	ALA
19	AS	10	PHE
19	AS	27	GLU
19	AS	28	LYS
19	AS	53	ASN
20	AT	71	THR
20	AT	74	LYS
20	AT	82	SER
20	AT	95	ALA

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Mol	Chain	Res	Type
20	AT	99	LEU
25	AZ	32	THR
25	AZ	33	TYR
25	AZ	141	VAL
25	AZ	145	GLU
25	AZ	146	LEU
25	AZ	190	ARG
25	AZ	194	GLU
25	AZ	220	PRO
25	AZ	260	PRO
25	AZ	274	ARG
25	AZ	300	ARG
25	AZ	301	GLY
25	AZ	382	GLU
26	B0	47	PRO
26	B0	55	ARG
26	B0	56	ASP
27	B1	27	GLU
27	B1	45	ASN
27	B1	52	ARG
27	B1	57	GLU
27	B1	84	GLY
27	B1	91	LYS
28	B2	16	LEU
28	B2	18	PRO
28	B2	33	MET
28	B2	34	GLU
28	B2	47	ASN
28	B2	68	ARG
28	B2	70	GLN
29	B3	3	ARG
29	B3	13	ILE
29	B3	30	ARG
29	B3	38	GLU
29	B3	43	ILE
30	B4	9	LEU
30	B4	43	TYR
31	B5	24	ALA
31	B5	35	GLU
31	B5	49	CYS
32	B6	16	CYS
32	B6	17	LYS

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Mol	Chain	Res	Type
32	B6	18	ARG
32	B6	23	THR
32	B6	27	LYS
32	B6	28	ARG
32	B6	31	PRO
32	B6	46	HIS
32	B6	48	VAL
33	B7	11	LYS
33	B7	45	ALA
34	B8	31	HIS
34	B8	34	TRP
34	B8	35	GLN
34	B8	43	GLN
34	B8	46	ARG
35	B9	10	ILE
35	B9	11	CYS
35	B9	36	GLN
38	BC	78	ALA
38	BC	95	GLY
38	BC	105	ASP
38	BC	107	TRP
38	BC	109	ASP
38	BC	111	ASP
38	BC	135	GLY
38	BC	138	PRO
38	BC	198	ALA
38	BC	199	HIS
39	BD	24	ILE
39	BD	25	THR
39	BD	27	THR
39	BD	52	ARG
39	BD	153	ALA
39	BD	178	PRO
39	BD	225	ALA
39	BD	226	MET
39	BD	246	PRO
40	BE	4	ILE
40	BE	53	PRO
40	BE	54	GLN
40	BE	57	LYS
40	BE	77	ILE
40	BE	81	ILE

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Mol	Chain	Res	Type
40	BE	84	PHE
40	BE	88	GLY
40	BE	90	THR
40	BE	127	ASP
40	BE	131	ALA
40	BE	155	LYS
40	BE	168	MET
40	BE	178	GLU
40	BE	189	PRO
41	BF	2	LYS
41	BF	3	GLU
41	BF	10	PRO
41	BF	14	PRO
41	BF	24	LEU
41	BF	64	ILE
41	BF	79	GLY
41	BF	81	PRO
41	BF	83	PHE
41	BF	84	VAL
41	BF	89	VAL
41	BF	127	GLU
41	BF	158	THR
41	BF	168	ARG
41	BF	169	ASN
41	BF	170	LEU
41	BF	172	TRP
42	BG	3	LEU
42	BG	19	LEU
42	BG	28	VAL
42	BG	47	LYS
42	BG	63	ILE
42	BG	73	ALA
42	BG	81	LYS
42	BG	84	LYS
42	BG	86	MET
42	BG	87	PRO
42	BG	96	ARG
42	BG	111	LEU
42	BG	118	ARG
42	BG	126	ASP
42	BG	129	GLY
42	BG	131	TYR

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Mol	Chain	Res	Type
42	BG	144	ILE
42	BG	163	ALA
43	BH	21	PRO
43	BH	24	VAL
43	BH	29	PRO
43	BH	41	MET
43	BH	84	SER
43	BH	137	ASP
43	BH	159	GLU
43	BH	164	TYR
43	BH	170	ARG
46	BN	5	VAL
46	BN	7	LYS
46	BN	8	GLN
46	BN	42	TRP
46	BN	57	ALA
46	BN	58	ASP
46	BN	63	THR
46	BN	130	HIS
46	BN	133	GLN
47	BO	5	GLN
47	BO	18	LYS
47	BO	48	PRO
47	BO	68	GLU
48	BP	9	ASN
48	BP	11	GLY
48	BP	19	VAL
48	BP	33	ARG
48	BP	35	HIS
48	BP	40	SER
48	BP	46	LYS
48	BP	47	ASP
48	BP	49	ARG
48	BP	52	GLU
48	BP	57	THR
48	BP	64	LYS
48	BP	65	ARG
48	BP	67	MET
48	BP	71	VAL
48	BP	76	LYS
48	BP	106	LEU
48	BP	110	TYR

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Mol	Chain	Res	Type
48	BP	122	PRO
49	BQ	25	ASP
49	BQ	52	VAL
49	BQ	54	MET
49	BQ	57	HIS
49	BQ	88	GLY
50	BR	4	LEU
50	BR	11	ASN
50	BR	30	THR
50	BR	45	ARG
50	BR	56	LYS
50	BR	57	ARG
50	BR	58	GLY
50	BR	60	LEU
50	BR	78	LYS
50	BR	103	ARG
50	BR	117	VAL
51	BS	13	ARG
51	BS	23	ARG
51	BS	36	TYR
51	BS	37	ALA
51	BS	59	LYS
51	BS	85	VAL
51	BS	95	HIS
51	BS	100	ALA
51	BS	105	ALA
52	BT	17	THR
52	BT	24	PRO
52	BT	32	TYR
52	BT	33	LYS
52	BT	69	GLY
52	BT	80	SER
52	BT	84	GLN
52	BT	103	ARG
52	BT	107	ASP
52	BT	112	ARG
52	BT	129	ARG
53	BU	5	LYS
53	BU	9	VAL
53	BU	87	GLY
53	BU	91	ASP
54	BV	16	PRO

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Mol	Chain	Res	Type
54	BV	18	LEU
54	BV	24	LYS
54	BV	27	ALA
54	BV	46	VAL
54	BV	50	PRO
54	BV	53	GLU
54	BV	64	HIS
55	BW	6	ILE
55	BW	18	ARG
55	BW	63	ASP
55	BW	73	ALA
55	BW	99	ARG
56	BX	19	ALA
56	BX	49	VAL
56	BX	62	LYS
56	BX	66	LEU
56	BX	93	GLU
57	BY	5	MET
57	BY	17	SER
57	BY	38	ILE
57	BY	42	VAL
57	BY	46	LYS
57	BY	51	VAL
57	BY	53	PRO
57	BY	56	PRO
57	BY	57	GLN
57	BY	64	GLU
57	BY	66	PRO
57	BY	74	PRO
57	BY	76	CYS
57	BY	77	PRO
57	BY	78	ALA
58	BZ	7	ALA
58	BZ	23	LYS
58	BZ	27	VAL
58	BZ	28	MET
58	BZ	40	ASP
58	BZ	45	ASP
58	BZ	46	LYS
58	BZ	53	ILE
58	BZ	77	ASP
58	BZ	81	ARG

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Mol	Chain	Res	Type
58	BZ	96	VAL
58	BZ	150	LEU
58	BZ	151	HIS
58	BZ	152	ALA
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	177	PRO
2	CB	15	VAL
2	CB	19	HIS
2	CB	76	GLN
2	CB	77	ALA
2	CB	98	LEU
2	CB	152	PHE
2	CB	190	THR
2	CB	195	ASP
2	CB	224	GLN
2	CB	229	VAL
2	CB	238	LEU
3	CC	14	ILE
3	CC	95	THR
3	CC	107	GLN
3	CC	154	SER
3	CC	207	VAL
4	CD	3	ARG
4	CD	18	LYS
4	CD	30	LYS
4	CD	35	ARG
4	CD	55	ALA
4	CD	72	GLU
4	CD	91	SER
4	CD	92	VAL
4	CD	129	ASN
4	CD	159	ARG
4	CD	189	PRO
5	CE	21	ALA
5	CE	153	LYS
7	CG	6	ARG
7	CG	37	ASN
7	CG	90	GLU
7	CG	105	VAL
7	CG	118	VAL
7	CG	136	LYS

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Mol	Chain	Res	Type
7	CG	153	HIS
8	CH	20	TYR
8	CH	26	VAL
8	CH	83	ILE
9	CI	23	ASN
9	CI	33	PHE
9	CI	46	ALA
9	CI	58	HIS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	89	ASP
10	CJ	90	LEU
11	CK	40	ILE
11	CK	95	ILE
12	CL	28	LYS
12	CL	46	LYS
12	CL	47	LYS
12	CL	91	LYS
12	CL	92	ASP
12	CL	94	PRO
12	CL	95	GLY
12	CL	120	TYR
12	CL	122	THR
13	CM	10	PRO
13	CM	11	ARG
13	CM	12	ASN
13	CM	67	GLU
13	CM	90	LEU
13	CM	107	ALA
13	CM	116	THR
13	CM	124	PRO
13	CM	125	ARG
14	CN	14	PRO
14	CN	15	LYS
14	CN	19	ARG
14	CN	20	ALA
14	CN	26	ARG
14	CN	56	VAL
14	CN	59	ALA
15	CO	81	LEU
15	CO	82	ILE
15	CO	85	LEU

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Mol	Chain	Res	Type
16	CP	11	SER
16	CP	17	TYR
16	CP	24	ALA
17	CQ	4	LYS
18	CR	25	THR
18	CR	45	SER
18	CR	46	GLU
18	CR	50	ILE
18	CR	54	ARG
18	CR	60	ALA
19	CS	10	PHE
19	CS	27	GLU
19	CS	28	LYS
19	CS	53	ASN
20	CT	71	THR
20	CT	74	LYS
20	CT	82	SER
20	CT	95	ALA
20	CT	99	LEU
25	CZ	32	THR
25	CZ	33	TYR
25	CZ	141	VAL
25	CZ	145	GLU
25	CZ	146	LEU
25	CZ	190	ARG
25	CZ	194	GLU
25	CZ	220	PRO
25	CZ	260	PRO
25	CZ	274	ARG
25	CZ	300	ARG
25	CZ	301	GLY
25	CZ	357	PRO
25	CZ	382	GLU
26	D0	47	PRO
26	D0	55	ARG
26	D0	56	ASP
27	D1	30	VAL
27	D1	52	ARG
27	D1	56	GLN
27	D1	64	ALA
27	D1	73	LEU
27	D1	83	GLU

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Mol	Chain	Res	Type
27	D1	91	LYS
28	D2	17	SER
28	D2	28	LYS
28	D2	33	MET
28	D2	34	GLU
28	D2	47	ASN
28	D2	68	ARG
28	D2	70	GLN
29	D3	3	ARG
29	D3	13	ILE
29	D3	29	ARG
29	D3	30	ARG
29	D3	38	GLU
29	D3	43	ILE
30	D4	9	LEU
30	D4	43	TYR
31	D5	24	ALA
31	D5	35	GLU
31	D5	49	CYS
32	D6	16	CYS
32	D6	17	LYS
32	D6	18	ARG
32	D6	20	ASN
32	D6	23	THR
32	D6	27	LYS
32	D6	28	ARG
32	D6	31	PRO
32	D6	46	HIS
32	D6	48	VAL
33	D7	11	LYS
33	D7	45	ALA
34	D8	31	HIS
34	D8	34	TRP
34	D8	35	GLN
34	D8	43	GLN
34	D8	46	ARG
35	D9	10	ILE
35	D9	11	CYS
35	D9	13	LYS
35	D9	25	VAL
35	D9	33	LYS
35	D9	36	GLN

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Mol	Chain	Res	Type
38	DC	39	GLU
38	DC	78	ALA
38	DC	95	GLY
38	DC	105	ASP
38	DC	107	TRP
38	DC	109	ASP
38	DC	111	ASP
38	DC	135	GLY
38	DC	138	PRO
38	DC	198	ALA
38	DC	199	HIS
39	DD	3	VAL
39	DD	24	ILE
39	DD	25	THR
39	DD	27	THR
39	DD	52	ARG
39	DD	178	PRO
39	DD	225	ALA
39	DD	226	MET
39	DD	246	PRO
39	DD	267	SER
40	DE	4	ILE
40	DE	53	PRO
40	DE	54	GLN
40	DE	57	LYS
40	DE	77	ILE
40	DE	81	ILE
40	DE	84	PHE
40	DE	88	GLY
40	DE	90	THR
40	DE	131	ALA
40	DE	155	LYS
40	DE	168	MET
40	DE	178	GLU
40	DE	189	PRO
41	DF	2	LYS
41	DF	3	GLU
41	DF	10	PRO
41	DF	14	PRO
41	DF	24	LEU
41	DF	64	ILE
41	DF	79	GLY

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Mol	Chain	Res	Type
41	DF	81	PRO
41	DF	84	VAL
41	DF	89	VAL
41	DF	127	GLU
41	DF	158	THR
41	DF	168	ARG
41	DF	169	ASN
41	DF	170	LEU
41	DF	172	TRP
42	DG	3	LEU
42	DG	70	VAL
42	DG	73	ALA
42	DG	75	LYS
42	DG	80	PHE
42	DG	82	LEU
42	DG	84	LYS
42	DG	86	MET
42	DG	87	PRO
42	DG	92	VAL
42	DG	96	ARG
42	DG	97	ASP
42	DG	101	ILE
42	DG	118	ARG
42	DG	126	ASP
42	DG	144	ILE
42	DG	155	MET
42	DG	163	ALA
43	DH	21	PRO
43	DH	24	VAL
43	DH	29	PRO
43	DH	41	MET
43	DH	84	SER
43	DH	137	ASP
43	DH	159	GLU
43	DH	164	TYR
43	DH	170	ARG
46	DN	5	VAL
46	DN	7	LYS
46	DN	8	GLN
46	DN	42	TRP
46	DN	57	ALA
46	DN	58	ASP

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Mol	Chain	Res	Type
46	DN	59	LYS
46	DN	63	THR
46	DN	130	HIS
46	DN	133	GLN
47	DO	5	GLN
47	DO	18	LYS
47	DO	48	PRO
47	DO	68	GLU
48	DP	9	ASN
48	DP	11	GLY
48	DP	19	VAL
48	DP	35	HIS
48	DP	40	SER
48	DP	46	LYS
48	DP	47	ASP
48	DP	49	ARG
48	DP	52	GLU
48	DP	57	THR
48	DP	64	LYS
48	DP	65	ARG
48	DP	67	MET
48	DP	71	VAL
48	DP	106	LEU
48	DP	110	TYR
48	DP	122	PRO
49	DQ	25	ASP
49	DQ	52	VAL
49	DQ	54	MET
49	DQ	57	HIS
49	DQ	88	GLY
50	DR	4	LEU
50	DR	11	ASN
50	DR	30	THR
50	DR	45	ARG
50	DR	57	ARG
50	DR	58	GLY
50	DR	60	LEU
50	DR	103	ARG
50	DR	117	VAL
51	DS	13	ARG
51	DS	23	ARG
51	DS	36	TYR

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Mol	Chain	Res	Type
51	DS	37	ALA
51	DS	59	LYS
51	DS	85	VAL
51	DS	95	HIS
51	DS	100	ALA
51	DS	105	ALA
52	DT	17	THR
52	DT	24	PRO
52	DT	32	TYR
52	DT	33	LYS
52	DT	69	GLY
52	DT	80	SER
52	DT	84	GLN
52	DT	103	ARG
52	DT	104	ASN
52	DT	107	ASP
52	DT	129	ARG
53	DU	5	LYS
53	DU	9	VAL
53	DU	87	GLY
53	DU	91	ASP
54	DV	16	PRO
54	DV	18	LEU
54	DV	24	LYS
54	DV	27	ALA
54	DV	46	VAL
54	DV	50	PRO
54	DV	53	GLU
54	DV	64	HIS
55	DW	6	ILE
55	DW	63	ASP
55	DW	73	ALA
55	DW	99	ARG
56	DX	19	ALA
56	DX	49	VAL
56	DX	62	LYS
56	DX	66	LEU
56	DX	93	GLU
57	DY	5	MET
57	DY	13	VAL
57	DY	17	SER
57	DY	38	ILE

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Mol	Chain	Res	Type
57	DY	42	VAL
57	DY	46	LYS
57	DY	51	VAL
57	DY	53	PRO
57	DY	56	PRO
57	DY	57	GLN
57	DY	64	GLU
57	DY	66	PRO
57	DY	74	PRO
57	DY	76	CYS
57	DY	77	PRO
57	DY	78	ALA
58	DZ	45	ASP
58	DZ	46	LYS
58	DZ	52	SER
58	DZ	53	ILE
58	DZ	80	ARG
58	DZ	128	VAL
58	DZ	151	HIS
58	DZ	152	ALA
58	DZ	165	VAL
58	DZ	168	GLU
2	AB	14	GLY
2	AB	18	GLY
2	AB	20	GLU
2	AB	24	TRP
2	AB	45	GLN
2	AB	83	MET
2	AB	97	TRP
2	AB	101	MET
2	AB	150	SER
2	AB	174	VAL
2	AB	180	LEU
2	AB	230	VAL
2	AB	236	TYR
3	AC	13	GLY
3	AC	47	LEU
3	AC	51	GLY
3	AC	73	PRO
3	AC	83	ARG
3	AC	96	GLY
3	AC	105	GLU

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Mol	Chain	Res	Type
3	AC	129	ALA
3	AC	133	ALA
3	AC	146	ALA
4	AD	31	CYS
4	AD	40	PRO
4	AD	44	GLY
4	AD	47	ARG
4	AD	110	PHE
4	AD	125	HIS
4	AD	172	PRO
4	AD	181	MET
4	AD	183	GLY
4	AD	201	GLN
5	AE	65	ASN
5	AE	136	MET
5	AE	146	ALA
6	AF	13	ASN
6	AF	31	GLU
6	AF	34	GLY
6	AF	80	ARG
7	AG	17	VAL
7	AG	27	ILE
7	AG	100	ALA
7	AG	101	LEU
7	AG	107	ALA
7	AG	122	HIS
7	AG	145	ALA
8	AH	2	LEU
8	AH	71	GLY
8	AH	105	ARG
8	AH	135	CYS
9	AI	12	GLU
9	AI	44	VAL
9	AI	89	ASN
9	AI	95	LYS
9	AI	101	PHE
10	AJ	24	VAL
11	AK	39	PRO
11	AK	73	MET
12	AL	18	VAL
12	AL	31	PRO
12	AL	51	ALA

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Mol	Chain	Res	Type
12	AL	63	GLY
12	AL	115	LYS
13	AM	5	ALA
13	AM	7	VAL
13	AM	31	LYS
13	AM	69	GLU
13	AM	74	VAL
13	AM	83	ASP
13	AM	100	GLY
14	AN	52	GLN
14	AN	60	SER
15	AO	10	LYS
15	AO	27	VAL
15	AO	28	GLN
16	AP	23	ASP
16	AP	28	ARG
16	AP	53	VAL
17	AQ	38	ARG
18	AR	25	THR
18	AR	41	LYS
18	AR	87	ARG
19	AS	11	VAL
19	AS	14	HIS
19	AS	25	LYS
19	AS	29	ARG
19	AS	51	VAL
20	AT	49	ALA
20	AT	102	GLY
21	AU	3	LYS
21	AU	6	ARG
25	AZ	119	HIS
25	AZ	216	ASP
25	AZ	280	GLY
25	AZ	310	ILE
25	AZ	361	MET
26	B0	43	THR
26	B0	64	ASP
26	B0	73	GLY
27	B1	14	VAL
27	B1	15	ALA
27	B1	31	GLY
27	B1	36	GLY

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Mol	Chain	Res	Type
27	B1	53	VAL
27	B1	73	LEU
28	B2	26	ARG
28	B2	49	LYS
29	B3	16	PRO
29	B3	29	ARG
29	B3	57	GLU
30	B4	20	ASN
30	B4	44	THR
31	B5	3	LYS
31	B5	25	LEU
31	B5	45	VAL
31	B5	57	VAL
32	B6	19	ARG
32	B6	20	ASN
32	B6	52	VAL
33	B7	32	LYS
34	B8	3	LYS
34	B8	8	LYS
35	B9	13	LYS
35	B9	25	VAL
35	B9	33	LYS
38	BC	2	LYS
38	BC	39	GLU
38	BC	48	GLY
38	BC	62	VAL
38	BC	77	ILE
38	BC	99	ILE
38	BC	115	ALA
38	BC	149	ILE
38	BC	160	ARG
38	BC	179	SER
39	BD	3	VAL
39	BD	111	LEU
39	BD	234	GLY
39	BD	242	ARG
39	BD	267	SER
39	BD	273	ARG
40	BE	19	ARG
40	BE	29	GLY
40	BE	35	GLN
40	BE	64	LYS

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Mol	Chain	Res	Type
40	BE	66	HIS
40	BE	69	LYS
40	BE	80	GLU
40	BE	117	MET
40	BE	124	GLY
40	BE	130	GLY
40	BE	145	LYS
40	BE	179	GLU
40	BE	199	ARG
40	BE	204	ALA
41	BF	11	VAL
41	BF	21	ALA
41	BF	43	LYS
41	BF	62	ARG
41	BF	85	GLY
41	BF	88	VAL
41	BF	100	THR
41	BF	119	ARG
41	BF	126	VAL
41	BF	132	VAL
41	BF	133	ASN
41	BF	134	GLY
41	BF	179	GLU
42	BG	10	LYS
42	BG	45	GLU
42	BG	80	PHE
42	BG	101	ILE
42	BG	132	ASN
42	BG	139	LEU
42	BG	167	GLU
42	BG	176	LEU
43	BH	30	LYS
43	BH	45	VAL
43	BH	46	GLU
43	BH	62	LYS
43	BH	108	GLY
43	BH	109	PHE
43	BH	138	LYS
46	BN	19	GLU
46	BN	36	GLY
46	BN	46	VAL
46	BN	50	ASP

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Mol	Chain	Res	Type
46	BN	59	LYS
47	BO	9	GLU
47	BO	26	LYS
47	BO	35	VAL
47	BO	91	LEU
48	BP	15	ARG
48	BP	21	ARG
48	BP	34	GLY
48	BP	83	VAL
48	BP	108	LYS
48	BP	149	GLU
49	BQ	20	ALA
49	BQ	30	GLY
49	BQ	87	LYS
49	BQ	119	ARG
49	BQ	135	ASP
50	BR	29	LEU
50	BR	42	LYS
50	BR	43	GLU
50	BR	46	GLY
50	BR	86	ARG
51	BS	15	ARG
51	BS	17	ARG
51	BS	24	LEU
51	BS	28	VAL
51	BS	29	PHE
51	BS	94	TYR
51	BS	97	ARG
51	BS	104	GLY
52	BT	4	GLY
52	BT	28	VAL
52	BT	57	PHE
52	BT	91	ARG
52	BT	95	ARG
52	BT	100	TYR
52	BT	104	ASN
52	BT	135	ALA
53	BU	33	ARG
53	BU	90	VAL
53	BU	94	ASN
53	BU	95	LEU
54	BV	20	LEU

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Mol	Chain	Res	Type
54	BV	44	LYS
54	BV	67	GLY
54	BV	79	VAL
54	BV	97	LYS
55	BW	65	LEU
56	BX	4	ALA
56	BX	12	VAL
57	BY	7	VAL
57	BY	8	LYS
57	BY	13	VAL
57	BY	37	VAL
57	BY	39	VAL
57	BY	61	ILE
58	BZ	52	SER
58	BZ	80	ARG
58	BZ	95	PRO
58	BZ	128	VAL
58	BZ	139	VAL
58	BZ	168	GLU
2	CB	14	GLY
2	CB	18	GLY
2	CB	20	GLU
2	CB	24	TRP
2	CB	26	PRO
2	CB	45	GLN
2	CB	83	MET
2	CB	93	VAL
2	CB	97	TRP
2	CB	101	MET
2	CB	150	SER
2	CB	174	VAL
2	CB	180	LEU
2	CB	216	SER
2	CB	230	VAL
2	CB	236	TYR
3	CC	47	LEU
3	CC	51	GLY
3	CC	73	PRO
3	CC	83	ARG
3	CC	96	GLY
3	CC	105	GLU
3	CC	129	ALA

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Mol	Chain	Res	Type
3	CC	133	ALA
3	CC	146	ALA
4	CD	40	PRO
4	CD	44	GLY
4	CD	47	ARG
4	CD	54	TYR
4	CD	125	HIS
4	CD	172	PRO
4	CD	181	MET
4	CD	183	GLY
4	CD	201	GLN
5	CE	65	ASN
5	CE	136	MET
5	CE	137	GLU
5	CE	146	ALA
6	CF	12	PRO
6	CF	13	ASN
6	CF	31	GLU
6	CF	34	GLY
6	CF	80	ARG
7	CG	17	VAL
7	CG	27	ILE
7	CG	80	VAL
7	CG	100	ALA
7	CG	107	ALA
7	CG	121	ALA
7	CG	145	ALA
8	CH	2	LEU
8	CH	37	ARG
8	CH	71	GLY
8	CH	105	ARG
8	CH	135	CYS
9	CI	12	GLU
9	CI	44	VAL
9	CI	89	ASN
9	CI	95	LYS
9	CI	101	PHE
10	CJ	13	HIS
10	CJ	24	VAL
11	CK	39	PRO
11	CK	73	MET
12	CL	18	VAL

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Mol	Chain	Res	Type
12	CL	31	PRO
12	CL	51	ALA
12	CL	63	GLY
12	CL	115	LYS
12	CL	116	SER
13	CM	5	ALA
13	CM	7	VAL
13	CM	69	GLU
13	CM	74	VAL
13	CM	83	ASP
13	CM	100	GLY
14	CN	16	PHE
14	CN	52	GLN
14	CN	60	SER
15	CO	27	VAL
15	CO	60	VAL
15	CO	65	ARG
16	CP	23	ASP
16	CP	28	ARG
16	CP	53	VAL
17	CQ	38	ARG
18	CR	41	LYS
18	CR	87	ARG
19	CS	11	VAL
19	CS	14	HIS
19	CS	25	LYS
19	CS	29	ARG
19	CS	51	VAL
20	CT	49	ALA
20	CT	102	GLY
21	CU	3	LYS
21	CU	6	ARG
25	CZ	119	HIS
25	CZ	216	ASP
25	CZ	280	GLY
25	CZ	310	ILE
25	CZ	361	MET
26	D0	43	THR
26	D0	64	ASP
26	D0	73	GLY
27	D1	42	GLN
27	D1	45	ASN

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Mol	Chain	Res	Type
28	D2	18	PRO
29	D3	16	PRO
29	D3	57	GLU
30	D4	20	ASN
30	D4	44	THR
31	D5	3	LYS
31	D5	25	LEU
31	D5	45	VAL
31	D5	57	VAL
32	D6	52	VAL
33	D7	32	LYS
34	D8	8	LYS
38	DC	2	LYS
38	DC	48	GLY
38	DC	62	VAL
38	DC	77	ILE
38	DC	99	ILE
38	DC	115	ALA
38	DC	149	ILE
38	DC	160	ARG
38	DC	179	SER
39	DD	111	LEU
39	DD	153	ALA
39	DD	234	GLY
39	DD	242	ARG
39	DD	273	ARG
40	DE	19	ARG
40	DE	29	GLY
40	DE	35	GLN
40	DE	60	ASN
40	DE	64	LYS
40	DE	66	HIS
40	DE	69	LYS
40	DE	80	GLU
40	DE	117	MET
40	DE	124	GLY
40	DE	127	ASP
40	DE	130	GLY
40	DE	145	LYS
40	DE	179	GLU
40	DE	199	ARG
40	DE	204	ALA

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Mol	Chain	Res	Type
41	DF	11	VAL
41	DF	21	ALA
41	DF	43	LYS
41	DF	62	ARG
41	DF	82	ILE
41	DF	83	PHE
41	DF	85	GLY
41	DF	88	VAL
41	DF	100	THR
41	DF	119	ARG
41	DF	126	VAL
41	DF	132	VAL
41	DF	133	ASN
41	DF	134	GLY
41	DF	179	GLU
42	DG	113	ARG
42	DG	114	ILE
42	DG	120	LEU
42	DG	129	GLY
42	DG	176	LEU
43	DH	30	LYS
43	DH	45	VAL
43	DH	46	GLU
43	DH	62	LYS
43	DH	108	GLY
43	DH	109	PHE
43	DH	138	LYS
46	DN	19	GLU
46	DN	36	GLY
46	DN	46	VAL
46	DN	50	ASP
47	DO	9	GLU
47	DO	26	LYS
47	DO	35	VAL
47	DO	91	LEU
48	DP	15	ARG
48	DP	21	ARG
48	DP	33	ARG
48	DP	34	GLY
48	DP	76	LYS
48	DP	83	VAL
48	DP	149	GLU

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Mol	Chain	Res	Type
49	DQ	20	ALA
49	DQ	30	GLY
49	DQ	87	LYS
49	DQ	119	ARG
49	DQ	135	ASP
50	DR	29	LEU
50	DR	46	GLY
50	DR	56	LYS
50	DR	78	LYS
50	DR	86	ARG
50	DR	108	GLY
51	DS	15	ARG
51	DS	17	ARG
51	DS	24	LEU
51	DS	28	VAL
51	DS	29	PHE
51	DS	94	TYR
51	DS	97	ARG
51	DS	104	GLY
52	DT	4	GLY
52	DT	15	VAL
52	DT	28	VAL
52	DT	57	PHE
52	DT	91	ARG
52	DT	95	ARG
52	DT	100	TYR
52	DT	112	ARG
52	DT	135	ALA
53	DU	33	ARG
53	DU	90	VAL
53	DU	94	ASN
53	DU	95	LEU
54	DV	20	LEU
54	DV	44	LYS
54	DV	79	VAL
54	DV	97	LYS
55	DW	18	ARG
55	DW	65	LEU
56	DX	4	ALA
56	DX	12	VAL
56	DX	21	PHE
57	DY	7	VAL

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Mol	Chain	Res	Type
57	DY	8	LYS
57	DY	37	VAL
57	DY	61	ILE
58	DZ	9	TYR
58	DZ	21	ALA
58	DZ	29	TYR
58	DZ	49	ARG
58	DZ	61	LEU
58	DZ	77	ASP
58	DZ	120	ILE
58	DZ	147	GLY
58	DZ	163	LEU
58	DZ	177	PRO
2	AB	26	PRO
2	AB	63	MET
2	AB	84	GLU
2	AB	88	ALA
2	AB	130	ARG
2	AB	155	LEU
2	AB	166	ASP
2	AB	173	ALA
2	AB	177	ALA
3	AC	3	ASN
3	AC	26	LYS
3	AC	27	LYS
3	AC	49	SER
3	AC	91	LEU
3	AC	123	GLN
3	AC	153	VAL
3	AC	180	ALA
3	AC	204	LEU
4	AD	41	GLY
4	AD	153	ARG
4	AD	187	ARG
5	AE	64	ARG
5	AE	126	ARG
6	AF	38	GLU
7	AG	4	ARG
7	AG	62	PHE
7	AG	78	ARG
7	AG	106	GLN
7	AG	112	PRO

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Mol	Chain	Res	Type
7	AG	117	ALA
7	AG	119	ARG
7	AG	146	GLU
7	AG	147	ALA
8	AH	35	ILE
8	AH	37	ARG
9	AI	21	PRO
9	AI	24	GLY
9	AI	25	LYS
9	AI	47	LEU
9	AI	92	TYR
9	AI	98	PRO
10	AJ	15	THR
10	AJ	51	ARG
10	AJ	91	PRO
11	AK	62	GLN
12	AL	19	ARG
12	AL	86	ARG
13	AM	21	TYR
13	AM	108	ARG
14	AN	16	PHE
15	AO	5	LYS
15	AO	65	ARG
16	AP	26	ARG
16	AP	45	THR
16	AP	78	GLY
16	AP	83	GLU
18	AR	21	LYS
20	AT	31	SER
20	AT	39	LYS
20	AT	50	GLU
20	AT	51	GLU
21	AU	10	ARG
21	AU	25	LYS
25	AZ	258	LEU
25	AZ	345	ARG
25	AZ	390	GLU
26	B0	57	PHE
26	B0	83	PRO
27	B1	83	GLU
28	B2	30	ARG
28	B2	58	ALA

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Mol	Chain	Res	Type
28	B2	64	LEU
29	B3	2	PRO
29	B3	42	ALA
30	B4	8	LYS
30	B4	26	SER
30	B4	28	LYS
31	B5	11	THR
31	B5	59	GLU
32	B6	33	LYS
32	B6	34	LEU
32	B6	49	HIS
34	B8	61	LEU
38	BC	49	ILE
38	BC	121	GLY
38	BC	141	LYS
38	BC	196	LEU
38	BC	197	GLU
38	BC	204	ALA
38	BC	217	THR
39	BD	32	SER
39	BD	127	VAL
39	BD	188	GLU
39	BD	236	GLY
39	BD	239	ARG
40	BE	2	LYS
40	BE	60	ASN
40	BE	135	HIS
40	BE	136	ARG
40	BE	172	VAL
40	BE	185	LYS
41	BF	42	ALA
41	BF	49	ALA
41	BF	146	ALA
41	BF	164	ARG
41	BF	171	PRO
42	BG	46	ALA
42	BG	64	THR
42	BG	82	LEU
42	BG	115	ARG
42	BG	130	ASN
42	BG	147	ASP
43	BH	20	ALA

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Mol	Chain	Res	Type
43	BH	42	ARG
46	BN	45	ASN
46	BN	108	PRO
46	BN	127	ASP
46	BN	138	LEU
47	BO	73	ASP
48	BP	13	ASN
48	BP	23	PRO
48	BP	70	GLN
48	BP	81	GLN
48	BP	107	LYS
48	BP	125	VAL
49	BQ	21	THR
49	BQ	71	ASP
49	BQ	96	VAL
49	BQ	137	TYR
50	BR	14	SER
50	BR	63	ARG
50	BR	108	GLY
51	BS	78	LEU
51	BS	107	GLU
52	BT	12	SER
52	BT	36	GLU
52	BT	37	GLY
52	BT	41	ARG
53	BU	93	LYS
54	BV	59	ALA
55	BW	35	ILE
55	BW	74	ALA
55	BW	111	HIS
56	BX	9	LEU
56	BX	15	GLU
56	BX	21	PHE
57	BY	3	VAL
57	BY	14	LEU
57	BY	82	PRO
57	BY	99	CYS
58	BZ	29	TYR
58	BZ	51	ALA
58	BZ	73	GLN
58	BZ	113	ALA
58	BZ	134	PRO

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Mol	Chain	Res	Type
2	CB	88	ALA
2	CB	130	ARG
2	CB	155	LEU
2	CB	173	ALA
2	CB	177	ALA
2	CB	239	VAL
3	CC	3	ASN
3	CC	26	LYS
3	CC	27	LYS
3	CC	49	SER
3	CC	153	VAL
3	CC	180	ALA
3	CC	204	LEU
4	CD	31	CYS
4	CD	41	GLY
4	CD	56	VAL
4	CD	110	PHE
4	CD	153	ARG
4	CD	187	ARG
5	CE	27	ARG
5	CE	64	ARG
5	CE	126	ARG
6	CF	38	GLU
7	CG	4	ARG
7	CG	62	PHE
7	CG	78	ARG
7	CG	101	LEU
7	CG	106	GLN
7	CG	112	PRO
7	CG	117	ALA
7	CG	119	ARG
7	CG	122	HIS
7	CG	147	ALA
8	CH	35	ILE
9	CI	21	PRO
9	CI	24	GLY
9	CI	25	LYS
9	CI	47	LEU
9	CI	92	TYR
9	CI	98	PRO
10	CJ	15	THR
10	CJ	91	PRO

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Mol	Chain	Res	Type
11	CK	62	GLN
12	CL	19	ARG
12	CL	86	ARG
13	CM	21	TYR
13	CM	31	LYS
13	CM	108	ARG
14	CN	9	LYS
15	CO	5	LYS
15	CO	10	LYS
15	CO	24	SER
15	CO	28	GLN
16	CP	26	ARG
16	CP	45	THR
16	CP	78	GLY
16	CP	83	GLU
17	CQ	74	LEU
20	CT	31	SER
20	CT	50	GLU
21	CU	25	LYS
25	CZ	165	GLY
25	CZ	258	LEU
25	CZ	345	ARG
25	CZ	390	GLU
26	D0	57	PHE
26	D0	83	PRO
27	D1	85	LEU
28	D2	48	HIS
29	D3	2	PRO
29	D3	42	ALA
29	D3	51	ALA
30	D4	8	LYS
30	D4	26	SER
30	D4	28	LYS
31	D5	11	THR
31	D5	59	GLU
32	D6	19	ARG
32	D6	33	LYS
32	D6	34	LEU
32	D6	49	HIS
33	D7	16	HIS
34	D8	3	LYS
34	D8	61	LEU

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Mol	Chain	Res	Type
38	DC	49	ILE
38	DC	141	LYS
38	DC	196	LEU
38	DC	197	GLU
38	DC	204	ALA
38	DC	217	THR
39	DD	127	VAL
39	DD	156	ALA
39	DD	188	GLU
39	DD	206	LEU
39	DD	236	GLY
39	DD	239	ARG
40	DE	2	LYS
40	DE	135	HIS
40	DE	136	ARG
40	DE	172	VAL
40	DE	185	LYS
41	DF	42	ALA
41	DF	49	ALA
41	DF	146	ALA
41	DF	164	ARG
41	DF	171	PRO
42	DG	6	ALA
42	DG	28	VAL
42	DG	100	TRP
42	DG	104	GLU
42	DG	105	LYS
42	DG	110	ALA
42	DG	111	LEU
43	DH	20	ALA
43	DH	42	ARG
46	DN	45	ASN
46	DN	108	PRO
46	DN	127	ASP
46	DN	138	LEU
47	DO	73	ASP
48	DP	12	ALA
48	DP	13	ASN
48	DP	23	PRO
48	DP	70	GLN
48	DP	81	GLN
48	DP	107	LYS

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Mol	Chain	Res	Type
48	DP	108	LYS
48	DP	125	VAL
49	DQ	21	THR
49	DQ	71	ASP
49	DQ	96	VAL
49	DQ	137	TYR
50	DR	14	SER
50	DR	42	LYS
50	DR	43	GLU
50	DR	63	ARG
50	DR	75	LEU
51	DS	78	LEU
51	DS	107	GLU
52	DT	12	SER
52	DT	36	GLU
52	DT	37	GLY
52	DT	41	ARG
52	DT	46	GLU
54	DV	67	GLY
55	DW	59	VAL
55	DW	74	ALA
55	DW	111	HIS
56	DX	9	LEU
56	DX	15	GLU
57	DY	3	VAL
57	DY	14	LEU
57	DY	27	VAL
57	DY	39	VAL
57	DY	82	PRO
57	DY	99	CYS
58	DZ	31	ARG
58	DZ	76	LEU
58	DZ	148	ASP
58	DZ	166	SER
2	AB	37	ASN
2	AB	178	ARG
2	AB	209	ARG
2	AB	239	VAL
3	AC	36	ASP
3	AC	55	VAL
4	AD	14	ARG
4	AD	56	VAL

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Mol	Chain	Res	Type
5	AE	27	ARG
6	AF	42	GLU
7	AG	36	LYS
7	AG	94	ARG
7	AG	102	ARG
8	AH	76	PRO
9	AI	34	ASN
11	AK	35	PRO
11	AK	100	ALA
12	AL	6	THR
12	AL	29	GLY
13	AM	4	ILE
13	AM	41	PRO
13	AM	55	ARG
13	AM	114	ARG
14	AN	9	LYS
14	AN	23	ARG
15	AO	24	SER
15	AO	54	ARG
15	AO	60	VAL
15	AO	88	ARG
17	AQ	68	ARG
17	AQ	69	LYS
17	AQ	74	LEU
20	AT	18	GLN
20	AT	97	ALA
25	AZ	144	PRO
25	AZ	165	GLY
25	AZ	189	ARG
25	AZ	307	PRO
25	AZ	318	ALA
25	AZ	357	PRO
27	B1	63	ALA
27	B1	64	ALA
29	B3	49	LYS
29	B3	51	ALA
32	B6	43	CYS
33	B7	2	LYS
33	B7	9	ARG
33	B7	44	PRO
34	B8	25	MET
34	B8	40	GLU

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Mol	Chain	Res	Type
35	B9	31	LYS
39	BD	74	GLY
39	BD	196	VAL
39	BD	260	ARG
40	BE	61	ARG
40	BE	121	ASN
40	BE	167	VAL
41	BF	82	ILE
41	BF	190	GLU
42	BG	43	LEU
42	BG	53	LEU
42	BG	75	LYS
42	BG	155	MET
43	BH	67	LEU
43	BH	154	PRO
46	BN	44	PRO
47	BO	13	ASN
47	BO	51	ALA
48	BP	12	ALA
48	BP	20	GLY
48	BP	25	SER
49	BQ	99	PRO
50	BR	68	ARG
50	BR	75	LEU
52	BT	15	VAL
52	BT	46	GLU
52	BT	97	ALA
54	BV	51	VAL
55	BW	41	LYS
55	BW	42	ARG
55	BW	59	VAL
56	BX	94	GLY
57	BY	27	VAL
57	BY	62	GLU
2	CB	37	ASN
2	CB	63	MET
2	CB	84	GLU
3	CC	13	GLY
3	CC	91	LEU
4	CD	14	ARG
4	CD	61	LYS
4	CD	73	ARG

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Mol	Chain	Res	Type
4	CD	164	ALA
6	CF	42	GLU
7	CG	36	LYS
7	CG	94	ARG
7	CG	146	GLU
8	CH	6	ILE
8	CH	76	PRO
9	CI	34	ASN
10	CJ	33	GLN
10	CJ	51	ARG
10	CJ	56	HIS
11	CK	35	PRO
13	CM	41	PRO
14	CN	23	ARG
15	CO	54	ARG
15	CO	88	ARG
17	CQ	68	ARG
17	CQ	69	LYS
20	CT	18	GLN
20	CT	39	LYS
20	CT	51	GLU
20	CT	97	ALA
21	CU	10	ARG
25	CZ	144	PRO
25	CZ	189	ARG
25	CZ	307	PRO
25	CZ	318	ALA
28	D2	58	ALA
31	D5	14	ALA
32	D6	43	CYS
33	D7	9	ARG
33	D7	44	PRO
34	D8	29	LYS
34	D8	40	GLU
38	DC	121	GLY
39	DD	12	SER
39	DD	32	SER
39	DD	272	ALA
40	DE	61	ARG
40	DE	112	GLY
40	DE	167	VAL
42	DG	10	LYS

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Mol	Chain	Res	Type
42	DG	121	ASN
42	DG	128	ARG
43	DH	67	LEU
43	DH	154	PRO
46	DN	44	PRO
47	DO	13	ASN
47	DO	51	ALA
48	DP	20	GLY
48	DP	25	SER
48	DP	56	SER
49	DQ	49	ALA
49	DQ	99	PRO
50	DR	68	ARG
52	DT	131	ALA
53	DU	93	LYS
54	DV	59	ALA
55	DW	41	LYS
55	DW	42	ARG
55	DW	53	SER
56	DX	14	SER
56	DX	94	GLY
57	DY	62	GLU
58	DZ	27	VAL
58	DZ	75	ASN
58	DZ	83	PRO
58	DZ	170	THR
2	AB	165	VAL
3	AC	41	GLY
3	AC	143	GLU
3	AC	181	ASN
4	AD	4	TYR
4	AD	5	ILE
4	AD	160	GLN
4	AD	164	ALA
5	AE	149	GLU
6	AF	11	ASN
6	AF	33	TYR
7	AG	28	ASN
7	AG	120	ILE
8	AH	110	ALA
8	AH	121	ASP
10	AJ	16	LEU

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Mol	Chain	Res	Type
10	AJ	33	GLN
10	AJ	56	HIS
13	AM	113	PRO
15	AO	18	PHE
15	AO	29	VAL
16	AP	13	HIS
16	AP	33	ILE
17	AQ	27	PHE
17	AQ	47	PRO
18	AR	51	LEU
18	AR	55	ARG
20	AT	20	LEU
25	AZ	169	PRO
25	AZ	222	LEU
28	B2	17	SER
29	B3	12	PRO
31	B5	4	HIS
31	B5	14	ALA
33	B7	16	HIS
34	B8	29	LYS
34	B8	33	ASN
38	BC	200	LYS
39	BD	12	SER
39	BD	28	GLU
39	BD	156	ALA
40	BE	27	LEU
40	BE	45	THR
40	BE	52	LEU
40	BE	86	PRO
41	BF	9	ILE
41	BF	25	PRO
42	BG	121	ASN
42	BG	138	GLN
43	BH	47	GLU
48	BP	31	ALA
49	BQ	49	ALA
50	BR	67	LEU
51	BS	14	VAL
51	BS	22	GLY
51	BS	75	GLU
52	BT	131	ALA
53	BU	92	ARG

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Mol	Chain	Res	Type
54	BV	49	THR
54	BV	89	GLN
55	BW	53	SER
55	BW	91	GLY
56	BX	6	ASP
56	BX	14	SER
56	BX	17	ALA
56	BX	32	PRO
57	BY	26	LYS
57	BY	101	LYS
58	BZ	82	ARG
58	BZ	176	PRO
2	CB	178	ARG
2	CB	204	ASN
2	CB	209	ARG
3	CC	12	LEU
3	CC	55	VAL
3	CC	123	GLN
3	CC	143	GLU
3	CC	181	ASN
4	CD	4	TYR
4	CD	5	ILE
4	CD	50	ARG
5	CE	149	GLU
6	CF	33	TYR
7	CG	102	ARG
10	CJ	16	LEU
13	CM	4	ILE
13	CM	55	ARG
13	CM	113	PRO
13	CM	114	ARG
14	CN	22	THR
14	CN	55	GLY
15	CO	18	PHE
15	CO	25	THR
16	CP	13	HIS
16	CP	16	HIS
16	CP	33	ILE
17	CQ	27	PHE
18	CR	21	LYS
18	CR	55	ARG
19	CS	67	VAL

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Mol	Chain	Res	Type
20	CT	20	LEU
20	CT	88	VAL
20	CT	98	PRO
25	CZ	169	PRO
27	D1	53	VAL
27	D1	95	LEU
28	D2	41	ILE
29	D3	12	PRO
29	D3	49	LYS
31	D5	4	HIS
33	D7	2	LYS
34	D8	25	MET
34	D8	33	ASN
38	DC	200	LYS
39	DD	28	GLU
39	DD	159	ALA
39	DD	260	ARG
40	DE	45	THR
40	DE	52	LEU
40	DE	86	PRO
40	DE	121	ASN
41	DF	9	ILE
41	DF	25	PRO
41	DF	190	GLU
42	DG	130	ASN
42	DG	138	GLN
46	DN	64	GLY
48	DP	31	ALA
49	DQ	53	ALA
51	DS	14	VAL
51	DS	22	GLY
52	DT	83	ILE
52	DT	97	ALA
53	DU	92	ARG
53	DU	100	VAL
54	DV	49	THR
54	DV	51	VAL
54	DV	89	GLN
56	DX	6	ASP
56	DX	32	PRO
57	DY	26	LYS
57	DY	101	LYS

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Mol	Chain	Res	Type
58	DZ	12	GLY
58	DZ	24	LEU
58	DZ	129	SER
2	AB	82	ARG
2	AB	143	GLU
2	AB	234	PRO
3	AC	7	PRO
3	AC	12	LEU
4	AD	50	ARG
4	AD	61	LYS
5	AE	70	PRO
5	AE	72	GLN
7	AG	14	PRO
7	AG	96	GLN
10	AJ	27	ALA
10	AJ	29	ARG
12	AL	108	ALA
13	AM	106	ASN
15	AO	25	THR
16	AP	16	HIS
19	AS	67	VAL
20	AT	88	VAL
20	AT	98	PRO
21	AU	9	ARG
25	AZ	35	ALA
32	B6	9	LEU
33	B7	37	LYS
35	B9	20	HIS
38	BC	148	ASN
39	BD	33	LEU
39	BD	36	PRO
39	BD	159	ALA
40	BE	55	ASN
40	BE	72	VAL
40	BE	173	VAL
40	BE	196	VAL
42	BG	97	ASP
42	BG	117	PHE
43	BH	93	GLY
46	BN	40	PRO
46	BN	134	ARG
51	BS	73	LEU

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Mol	Chain	Res	Type
52	BT	23	ARG
52	BT	83	ILE
53	BU	102	GLU
57	BY	22	GLY
57	BY	50	ARG
57	BY	92	ASN
2	CB	165	VAL
2	CB	211	ILE
2	CB	234	PRO
3	CC	7	PRO
3	CC	36	ASP
3	CC	41	GLY
4	CD	101	LEU
4	CD	151	LYS
6	CF	11	ASN
7	CG	120	ILE
8	CH	110	ALA
10	CJ	27	ALA
10	CJ	29	ARG
11	CK	96	ARG
12	CL	6	THR
15	CO	12	ILE
15	CO	29	VAL
17	CQ	47	PRO
18	CR	33	ASP
18	CR	51	LEU
20	CT	100	ILE
25	CZ	222	LEU
35	D9	20	HIS
38	DC	132	GLY
39	DD	36	PRO
39	DD	74	GLY
40	DE	55	ASN
40	DE	70	ALA
40	DE	72	VAL
40	DE	190	GLY
40	DE	196	VAL
42	DG	8	LYS
42	DG	112	PRO
43	DH	47	GLU
46	DN	134	ARG
49	DQ	67	ARG

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Mol	Chain	Res	Type
50	DR	8	ARG
51	DS	73	LEU
52	DT	23	ARG
53	DU	102	GLU
54	DV	19	LYS
55	DW	35	ILE
57	DY	22	GLY
57	DY	50	ARG
57	DY	92	ASN
58	DZ	82	ARG
2	AB	211	ILE
3	AC	57	ILE
3	AC	66	VAL
5	AE	85	GLY
8	AH	6	ILE
9	AI	41	VAL
14	AN	55	GLY
15	AO	12	ILE
20	AT	100	ILE
21	AU	4	GLY
25	AZ	34	VAL
28	B2	42	GLY
38	BC	132	GLY
39	BD	42	GLY
40	BE	56	PRO
40	BE	190	GLY
43	BH	92	ILE
46	BN	64	GLY
47	BO	115	VAL
53	BU	100	VAL
54	BV	22	VAL
54	BV	48	GLY
57	BY	75	ILE
58	BZ	15	PRO
58	BZ	22	GLY
58	BZ	120	ILE
58	BZ	141	VAL
58	BZ	165	VAL
2	CB	166	ASP
5	CE	13	ILE
7	CG	14	PRO
9	CI	41	VAL

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Mol	Chain	Res	Type
12	CL	29	GLY
13	CM	60	VAL
20	CT	101	GLY
21	CU	4	GLY
25	CZ	17	ILE
25	CZ	34	VAL
27	D1	86	SER
33	D7	38	GLY
43	DH	92	ILE
43	DH	93	GLY
46	DN	40	PRO
47	DO	115	VAL
48	DP	104	GLY
51	DS	90	GLY
54	DV	22	VAL
55	DW	91	GLY
57	DY	75	ILE
58	DZ	160	GLY
3	AC	99	VAL
4	AD	28	SER
5	AE	13	ILE
13	AM	60	VAL
19	AS	31	ILE
20	AT	101	GLY
25	AZ	17	ILE
25	AZ	173	GLY
25	AZ	186	PRO
25	AZ	223	MET
25	AZ	257	GLY
39	BD	41	GLY
39	BD	244	ARG
48	BP	104	GLY
51	BS	90	GLY
52	BT	30	VAL
58	BZ	90	VAL
58	BZ	133	ILE
58	BZ	158	PRO
3	CC	57	ILE
3	CC	66	VAL
3	CC	99	VAL
25	CZ	173	GLY
25	CZ	186	PRO

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Mol	Chain	Res	Type
25	CZ	223	MET
25	CZ	257	GLY
39	DD	35	LYS
39	DD	42	GLY
39	DD	244	ARG
40	DE	56	PRO
40	DE	173	VAL
51	DS	49	VAL
52	DT	30	VAL
54	DV	48	GLY
58	DZ	15	PRO
58	DZ	159	PRO
16	AP	46	PRO
18	AR	22	VAL
25	AZ	128	VAL
28	B2	63	VAL
30	B4	19	GLY
39	BD	35	LYS
43	BH	128	PRO
46	BN	95	PRO
51	BS	49	VAL
52	BT	102	ILE
52	BT	110	ILE
58	BZ	61	LEU
58	BZ	74	VAL
2	CB	223	ILE
3	CC	114	PRO
5	CE	85	GLY
9	CI	100	GLY
16	CP	46	PRO
25	CZ	128	VAL
30	D4	19	GLY
39	DD	41	GLY
39	DD	196	VAL
43	DH	128	PRO
52	DT	110	ILE
58	DZ	22	GLY
2	AB	223	ILE
3	AC	116	VAL
5	AE	22	GLY
8	AH	72	PRO
9	AI	100	GLY

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Mol	Chain	Res	Type
11	AK	58	PRO
25	AZ	211	PRO
25	AZ	340	PRO
28	B2	41	ILE
29	B3	11	SER
29	B3	50	VAL
42	BG	114	ILE
48	BP	146	VAL
52	BT	88	ILE
56	BX	8	ILE
4	CD	28	SER
5	CE	22	GLY
5	CE	70	PRO
11	CK	58	PRO
13	CM	45	VAL
13	CM	85	GLY
14	CN	18	VAL
17	CQ	90	ILE
19	CS	31	ILE
25	CZ	340	PRO
29	D3	50	VAL
38	DC	189	ILE
46	DN	95	PRO
48	DP	146	VAL
52	DT	88	ILE
56	DX	8	ILE
58	DZ	141	VAL
3	AC	114	PRO
13	AM	85	GLY
40	BE	112	GLY
42	DG	15	VAL
49	DQ	73	PRO
52	DT	102	ILE
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%)	178 (88%)	24 (12%)	5	24
2	CB	202/220 (92%)	178 (88%)	24 (12%)	5	24
3	AC	160/188 (85%)	148 (92%)	12 (8%)	12	39
3	CC	160/188 (85%)	148 (92%)	12 (8%)	12	39
4	AD	180/181 (99%)	153 (85%)	27 (15%)	3	17
4	CD	180/181 (99%)	151 (84%)	29 (16%)	2	15
5	AE	115/123 (94%)	92 (80%)	23 (20%)	1	8
5	CE	115/123 (94%)	93 (81%)	22 (19%)	1	9
6	AF	90/90 (100%)	78 (87%)	12 (13%)	4	21
6	CF	90/90 (100%)	79 (88%)	11 (12%)	5	23
7	AG	126/127 (99%)	113 (90%)	13 (10%)	7	30
7	CG	126/127 (99%)	113 (90%)	13 (10%)	7	30
8	AH	119/119 (100%)	101 (85%)	18 (15%)	3	17
8	CH	119/119 (100%)	102 (86%)	17 (14%)	3	19
9	AI	98/99 (99%)	88 (90%)	10 (10%)	7	30
9	CI	98/99 (99%)	88 (90%)	10 (10%)	7	30
10	AJ	88/92 (96%)	69 (78%)	19 (22%)	1	7
10	CJ	88/92 (96%)	69 (78%)	19 (22%)	1	7
11	AK	90/99 (91%)	79 (88%)	11 (12%)	5	23
11	CK	90/99 (91%)	80 (89%)	10 (11%)	6	27
12	AL	104/111 (94%)	80 (77%)	24 (23%)	1	6
12	CL	104/111 (94%)	80 (77%)	24 (23%)	1	6
13	AM	99/101 (98%)	87 (88%)	12 (12%)	5	23
13	CM	99/101 (98%)	87 (88%)	12 (12%)	5	23
14	AN	49/50 (98%)	41 (84%)	8 (16%)	2	15
14	CN	49/50 (98%)	40 (82%)	9 (18%)	1	10
15	AO	79/80 (99%)	68 (86%)	11 (14%)	3	19
15	CO	79/80 (99%)	68 (86%)	11 (14%)	3	19
16	AP	72/74 (97%)	62 (86%)	10 (14%)	3	19
16	CP	72/74 (97%)	63 (88%)	9 (12%)	4	22
17	AQ	94/97 (97%)	86 (92%)	8 (8%)	10	35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	CQ	94/97 (97%)	86 (92%)	8 (8%)	10	35
18	AR	61/77 (79%)	54 (88%)	7 (12%)	5	25
18	CR	61/77 (79%)	53 (87%)	8 (13%)	4	21
19	AS	69/80 (86%)	58 (84%)	11 (16%)	2	15
19	CS	69/80 (86%)	58 (84%)	11 (16%)	2	15
20	AT	76/82 (93%)	65 (86%)	11 (14%)	3	18
20	CT	76/82 (93%)	65 (86%)	11 (14%)	3	18
21	AU	19/22 (86%)	18 (95%)	1 (5%)	20	48
21	CU	19/22 (86%)	18 (95%)	1 (5%)	20	48
25	AZ	314/339 (93%)	274 (87%)	40 (13%)	4	22
25	CZ	314/339 (93%)	275 (88%)	39 (12%)	4	23
26	B0	66/67 (98%)	50 (76%)	16 (24%)	1	5
26	D0	66/67 (98%)	51 (77%)	15 (23%)	1	6
27	B1	78/83 (94%)	58 (74%)	20 (26%)	0	4
27	D1	78/83 (94%)	59 (76%)	19 (24%)	1	4
28	B2	66/67 (98%)	47 (71%)	19 (29%)	0	2
28	D2	66/67 (98%)	50 (76%)	16 (24%)	1	5
29	B3	51/52 (98%)	44 (86%)	7 (14%)	3	20
29	D3	51/52 (98%)	44 (86%)	7 (14%)	3	20
30	B4	39/63 (62%)	25 (64%)	14 (36%)	0	1
30	D4	39/63 (62%)	25 (64%)	14 (36%)	0	1
31	B5	51/52 (98%)	47 (92%)	4 (8%)	11	38
31	D5	51/52 (98%)	47 (92%)	4 (8%)	11	38
32	B6	49/52 (94%)	39 (80%)	10 (20%)	1	8
32	D6	49/52 (94%)	39 (80%)	10 (20%)	1	8
33	B7	41/42 (98%)	32 (78%)	9 (22%)	1	6
33	D7	41/42 (98%)	31 (76%)	10 (24%)	1	4
34	B8	53/55 (96%)	46 (87%)	7 (13%)	4	21
34	D8	53/55 (96%)	45 (85%)	8 (15%)	3	17
35	B9	34/34 (100%)	27 (79%)	7 (21%)	1	8
35	D9	34/34 (100%)	27 (79%)	7 (21%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	BC	180/181 (99%)	156 (87%)	24 (13%)	4	21
38	DC	180/181 (99%)	154 (86%)	26 (14%)	3	18
39	BD	217/218 (100%)	178 (82%)	39 (18%)	2	11
39	DD	217/218 (100%)	178 (82%)	39 (18%)	2	11
40	BE	165/166 (99%)	150 (91%)	15 (9%)	9	33
40	DE	165/166 (99%)	151 (92%)	14 (8%)	10	35
41	BF	165/166 (99%)	152 (92%)	13 (8%)	11	37
41	DF	165/166 (99%)	152 (92%)	13 (8%)	11	37
42	BG	155/156 (99%)	128 (83%)	27 (17%)	2	12
42	DG	155/156 (99%)	129 (83%)	26 (17%)	2	13
43	BH	132/148 (89%)	116 (88%)	16 (12%)	5	23
43	DH	132/148 (89%)	116 (88%)	16 (12%)	5	23
46	BN	117/119 (98%)	106 (91%)	11 (9%)	8	32
46	DN	117/119 (98%)	106 (91%)	11 (9%)	8	32
47	BO	100/100 (100%)	89 (89%)	11 (11%)	6	27
47	DO	100/100 (100%)	88 (88%)	12 (12%)	5	24
48	BP	112/116 (97%)	85 (76%)	27 (24%)	1	5
48	DP	112/116 (97%)	85 (76%)	27 (24%)	1	5
49	BQ	111/111 (100%)	93 (84%)	18 (16%)	2	15
49	DQ	111/111 (100%)	93 (84%)	18 (16%)	2	15
50	BR	100/101 (99%)	85 (85%)	15 (15%)	3	17
50	DR	100/101 (99%)	85 (85%)	15 (15%)	3	17
51	BS	77/88 (88%)	66 (86%)	11 (14%)	3	19
51	DS	77/88 (88%)	67 (87%)	10 (13%)	4	21
52	BT	120/127 (94%)	100 (83%)	20 (17%)	2	14
52	DT	120/127 (94%)	101 (84%)	19 (16%)	2	15
53	BU	92/94 (98%)	84 (91%)	8 (9%)	9	34
53	DU	92/94 (98%)	84 (91%)	8 (9%)	9	34
54	BV	82/82 (100%)	67 (82%)	15 (18%)	2	11
54	DV	82/82 (100%)	67 (82%)	15 (18%)	2	11
55	BW	91/92 (99%)	77 (85%)	14 (15%)	2	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	DW	91/92 (99%)	77 (85%)	14 (15%)	2	16
56	BX	74/78 (95%)	65 (88%)	9 (12%)	5	23
56	DX	74/78 (95%)	65 (88%)	9 (12%)	5	23
57	BY	84/91 (92%)	68 (81%)	16 (19%)	1	9
57	DY	84/91 (92%)	69 (82%)	15 (18%)	2	11
58	BZ	155/179 (87%)	126 (81%)	29 (19%)	1	10
58	DZ	155/179 (87%)	127 (82%)	28 (18%)	2	11
All	All	10322/10862 (95%)	8804 (85%)	1518 (15%)	3	17

All (1518) 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	20	GLU
2	AB	36	ARG
2	AB	44	LEU
2	AB	52	GLU
2	AB	56	ARG
2	AB	63	MET
2	AB	69	LEU
2	AB	79	ASP
2	AB	80	ILE
2	AB	92	TYR
2	AB	93	VAL
2	AB	94	ASN
2	AB	108	ILE
2	AB	145	LEU
2	AB	172	ILE
2	AB	178	ARG
2	AB	179	LYS
2	AB	187	LEU
2	AB	196	LEU
2	AB	200	ILE
2	AB	204	ASN
3	AC	5	ILE
3	AC	18	TRP
3	AC	37	GLN
3	AC	39	ILE

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Mol	Chain	Res	Type
3	AC	54	ARG
3	AC	62	ASP
3	AC	79	ARG
3	AC	107	GLN
3	AC	120	VAL
3	AC	164	ARG
3	AC	188	LEU
3	AC	191	THR
4	AD	3	ARG
4	AD	9	CYS
4	AD	13	ARG
4	AD	15	GLU
4	AD	20	TYR
4	AD	26	CYS
4	AD	35	ARG
4	AD	45	GLN
4	AD	58	LEU
4	AD	60	GLU
4	AD	67	ILE
4	AD	86	LYS
4	AD	89	THR
4	AD	97	LEU
4	AD	98	GLU
4	AD	122	ARG
4	AD	129	ASN
4	AD	132	ARG
4	AD	135	LEU
4	AD	138	TYR
4	AD	145	GLU
4	AD	160	GLN
4	AD	163	GLU
4	AD	179	GLU
4	AD	187	ARG
4	AD	190	ASP
4	AD	192	GLU
5	AE	7	GLU
5	AE	10	MET
5	AE	12	LEU
5	AE	20	GLN
5	AE	26	PHE
5	AE	33	VAL
5	AE	41	VAL

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Mol	Chain	Res	Type
5	AE	43	LEU
5	AE	50	GLU
5	AE	51	VAL
5	AE	53	LEU
5	AE	55	VAL
5	AE	68	GLU
5	AE	73	ASN
5	AE	82	VAL
5	AE	91	LEU
5	AE	98	THR
5	AE	115	VAL
5	AE	120	THR
5	AE	131	ILE
5	AE	137	GLU
5	AE	144	THR
5	AE	150	ARG
6	AF	10	LEU
6	AF	14	LEU
6	AF	19	LEU
6	AF	25	ILE
6	AF	31	GLU
6	AF	43	LEU
6	AF	61	LEU
6	AF	69	GLU
6	AF	84	ASN
6	AF	86	ARG
6	AF	90	VAL
6	AF	98	LEU
7	AG	8	GLU
7	AG	12	LEU
7	AG	13	GLN
7	AG	38	LEU
7	AG	41	ARG
7	AG	54	THR
7	AG	69	VAL
7	AG	72	ARG
7	AG	91	VAL
7	AG	104	LEU
7	AG	112	PRO
7	AG	124	LEU
7	AG	146	GLU
8	AH	1	MET

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Mol	Chain	Res	Type
8	AH	2	LEU
8	AH	3	THR
8	AH	14	ARG
8	AH	23	SER
8	AH	39	LEU
8	AH	45	ILE
8	AH	52	ASP
8	AH	81	HIS
8	AH	82	HIS
8	AH	83	ILE
8	AH	85	ARG
8	AH	94	TYR
8	AH	109	ILE
8	AH	115	SER
8	AH	119	LEU
8	AH	127	LEU
8	AH	136	GLU
9	AI	4	TYR
9	AI	10	ARG
9	AI	29	ASN
9	AI	47	LEU
9	AI	85	LEU
9	AI	95	LYS
9	AI	99	LEU
9	AI	108	VAL
9	AI	114	TYR
9	AI	128	ARG
10	AJ	16	LEU
10	AJ	25	GLU
10	AJ	40	LEU
10	AJ	45	ARG
10	AJ	48	THR
10	AJ	50	ILE
10	AJ	54	PHE
10	AJ	55	LYS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	71	LEU
10	AJ	73	ASP
10	AJ	74	ILE

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Mol	Chain	Res	Type
10	AJ	80	LYS
10	AJ	95	GLU
10	AJ	96	ILE
10	AJ	98	ILE
11	AK	14	VAL
11	AK	28	THR
11	AK	38	ASN
11	AK	67	ASP
11	AK	75	TYR
11	AK	82	VAL
11	AK	91	ARG
11	AK	114	VAL
11	AK	115	PRO
11	AK	124	LYS
11	AK	125	PHE
12	AL	6	THR
12	AL	20	LYS
12	AL	27	LEU
12	AL	36	VAL
12	AL	37	CYS
12	AL	38	THR
12	AL	41	ARG
12	AL	42	THR
12	AL	47	LYS
12	AL	52	LEU
12	AL	53	ARG
12	AL	58	VAL
12	AL	67	THR
12	AL	79	GLU
12	AL	80	HIS
12	AL	84	LEU
12	AL	85	ILE
12	AL	89	ARG
12	AL	93	LEU
12	AL	96	VAL
12	AL	98	TYR
12	AL	100	ILE
12	AL	104	VAL
12	AL	105	TYR
13	AM	9	ILE
13	AM	47	ASP
13	AM	56	LEU

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Mol	Chain	Res	Type
13	AM	67	GLU
13	AM	70	LEU
13	AM	71	ARG
13	AM	81	LEU
13	AM	93	ARG
13	AM	108	ARG
13	AM	109	THR
13	AM	115	LYS
13	AM	120	LYS
14	AN	14	PRO
14	AN	18	VAL
14	AN	21	TYR
14	AN	29	ARG
14	AN	32	SER
14	AN	42	ILE
14	AN	44	LEU
14	AN	57	ARG
15	AO	3	ILE
15	AO	10	LYS
15	AO	11	VAL
15	AO	19	PRO
15	AO	34	LEU
15	AO	39	LEU
15	AO	54	ARG
15	AO	81	LEU
15	AO	82	ILE
15	AO	85	LEU
15	AO	88	ARG
16	AP	2	VAL
16	AP	19	ILE
16	AP	20	VAL
16	AP	21	VAL
16	AP	22	THR
16	AP	27	LYS
16	AP	36	ILE
16	AP	58	TYR
16	AP	69	THR
16	AP	82	GLN
17	AQ	7	THR
17	AQ	10	VAL
17	AQ	35	VAL
17	AQ	38	ARG

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Mol	Chain	Res	Type
17	AQ	41	LYS
17	AQ	49	GLU
17	AQ	52	LYS
17	AQ	74	LEU
18	AR	37	VAL
18	AR	46	GLU
18	AR	55	ARG
18	AR	58	LEU
18	AR	65	ILE
18	AR	79	LEU
18	AR	88	LYS
19	AS	6	LYS
19	AS	7	LYS
19	AS	10	PHE
19	AS	15	LEU
19	AS	22	LEU
19	AS	27	GLU
19	AS	29	ARG
19	AS	37	ARG
19	AS	44	MET
19	AS	58	VAL
19	AS	77	THR
20	AT	22	ARG
20	AT	24	LEU
20	AT	26	ASN
20	AT	30	LYS
20	AT	36	LEU
20	AT	41	ILE
20	AT	42	GLN
20	AT	45	GLN
20	AT	64	ASP
20	AT	74	LYS
20	AT	93	GLU
21	AU	17	THR
25	AZ	13	ASN
25	AZ	21	ASP
25	AZ	27	LEU
25	AZ	74	LYS
25	AZ	91	ASN
25	AZ	113	MET
25	AZ	138	VAL
25	AZ	149	LEU

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Mol	Chain	Res	Type
25	AZ	163	PHE
25	AZ	167	GLU
25	AZ	174	SER
25	AZ	203	LEU
25	AZ	218	ASP
25	AZ	223	MET
25	AZ	231	ILE
25	AZ	243	GLU
25	AZ	247	VAL
25	AZ	256	VAL
25	AZ	260	PRO
25	AZ	264	ARG
25	AZ	265	THR
25	AZ	268	THR
25	AZ	270	VAL
25	AZ	277	LEU
25	AZ	279	GLU
25	AZ	284	ASP
25	AZ	285	ASN
25	AZ	286	VAL
25	AZ	300	ARG
25	AZ	303	VAL
25	AZ	310	ILE
25	AZ	335	PHE
25	AZ	348	ASP
25	AZ	349	VAL
25	AZ	354	GLN
25	AZ	359	VAL
25	AZ	367	ASN
25	AZ	368	VAL
25	AZ	395	VAL
25	AZ	401	THR
26	B0	5	LYS
26	B0	11	ARG
26	B0	14	ARG
26	B0	20	ARG
26	B0	27	GLU
26	B0	31	VAL
26	B0	47	PRO
26	B0	56	ASP
26	B0	60	PHE
26	B0	62	LEU

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Mol	Chain	Res	Type
26	B0	64	ASP
26	B0	66	VAL
26	B0	67	VAL
26	B0	71	ASP
26	B0	78	TYR
26	B0	84	LEU
27	B1	3	LYS
27	B1	7	ILE
27	B1	11	ARG
27	B1	13	ILE
27	B1	16	ASN
27	B1	30	VAL
27	B1	33	LYS
27	B1	37	ILE
27	B1	38	SER
27	B1	39	LYS
27	B1	46	LEU
27	B1	49	VAL
27	B1	57	GLU
27	B1	69	LYS
27	B1	75	GLU
27	B1	80	LEU
27	B1	82	LEU
27	B1	83	GLU
27	B1	92	LYS
27	B1	95	LEU
28	B2	3	LEU
28	B2	7	ARG
28	B2	9	GLN
28	B2	10	LEU
28	B2	17	SER
28	B2	21	LEU
28	B2	31	GLU
28	B2	33	MET
28	B2	34	GLU
28	B2	35	LEU
28	B2	43	GLN
28	B2	44	LEU
28	B2	45	SER
28	B2	49	LYS
28	B2	50	ILE
28	B2	57	ILE

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Mol	Chain	Res	Type
28	B2	60	LEU
28	B2	64	LEU
28	B2	68	ARG
29	B3	28	LEU
29	B3	31	LEU
29	B3	35	ARG
29	B3	38	GLU
29	B3	40	THR
29	B3	46	ASN
29	B3	52	HIS
30	B4	5	ILE
30	B4	6	HIS
30	B4	8	LYS
30	B4	9	LEU
30	B4	10	VAL
30	B4	22	ILE
30	B4	25	TYR
30	B4	27	THR
30	B4	28	LYS
30	B4	32	TYR
30	B4	33	VAL
30	B4	34	GLU
30	B4	35	VAL
30	B4	47	GLN
31	B5	3	LYS
31	B5	51	TYR
31	B5	56	LYS
31	B5	57	VAL
32	B6	9	LEU
32	B6	10	LEU
32	B6	31	PRO
32	B6	36	LEU
32	B6	42	TRP
32	B6	43	CYS
32	B6	45	LYS
32	B6	49	HIS
32	B6	52	VAL
32	B6	53	LYS
33	B7	1	MET
33	B7	8	ASN
33	B7	21	ARG
33	B7	24	THR

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Mol	Chain	Res	Type
33	B7	39	ARG
33	B7	41	ARG
33	B7	44	PRO
33	B7	47	ARG
33	B7	48	LYS
34	B8	34	TRP
34	B8	47	LYS
34	B8	48	PHE
34	B8	52	LYS
34	B8	56	GLU
34	B8	61	LEU
34	B8	64	TYR
35	B9	1	MET
35	B9	2	LYS
35	B9	10	ILE
35	B9	14	CYS
35	B9	23	VAL
35	B9	28	GLU
35	B9	29	ASN
38	BC	3	HIS
38	BC	6	ARG
38	BC	12	GLU
38	BC	14	VAL
38	BC	17	ASN
38	BC	30	LYS
38	BC	36	LYS
38	BC	40	THR
38	BC	52	ARG
38	BC	55	ASP
38	BC	70	LYS
38	BC	71	GLN
38	BC	72	VAL
38	BC	85	GLU
38	BC	94	VAL
38	BC	113	VAL
38	BC	155	GLU
38	BC	156	ILE
38	BC	168	THR
38	BC	183	GLU
38	BC	189	ILE
38	BC	199	HIS
38	BC	224	ILE

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Mol	Chain	Res	Type
38	BC	227	HIS
39	BD	10	THR
39	BD	24	ILE
39	BD	26	LYS
39	BD	28	GLU
39	BD	33	LEU
39	BD	35	LYS
39	BD	37	LEU
39	BD	44	ASN
39	BD	46	GLN
39	BD	52	ARG
39	BD	59	LYS
39	BD	61	LEU
39	BD	63	ARG
39	BD	64	ILE
39	BD	65	ILE
39	BD	92	ILE
39	BD	94	LEU
39	BD	95	LEU
39	BD	103	ARG
39	BD	106	ILE
39	BD	112	GLN
39	BD	117	VAL
39	BD	122	ASP
39	BD	131	LEU
39	BD	136	ILE
39	BD	157	ARG
39	BD	166	GLN
39	BD	174	ILE
39	BD	183	ARG
39	BD	200	ASP
39	BD	212	SER
39	BD	221	VAL
39	BD	246	PRO
39	BD	257	LEU
39	BD	260	ARG
39	BD	267	SER
39	BD	271	ILE
39	BD	273	ARG
39	BD	275	LYS
40	BE	33	VAL
40	BE	42	ASP

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Mol	Chain	Res	Type
40	BE	55	ASN
40	BE	57	LYS
40	BE	69	LYS
40	BE	76	ARG
40	BE	82	ARG
40	BE	95	ILE
40	BE	121	ASN
40	BE	134	ILE
40	BE	143	ASN
40	BE	145	LYS
40	BE	171	GLU
40	BE	181	LEU
40	BE	188	VAL
41	BF	17	ARG
41	BF	28	ILE
41	BF	88	VAL
41	BF	97	TYR
41	BF	122	LYS
41	BF	138	GLU
41	BF	139	PHE
41	BF	149	ASP
41	BF	155	LEU
41	BF	157	VAL
41	BF	160	ASN
41	BF	164	ARG
41	BF	169	ASN
42	BG	12	TYR
42	BG	21	ARG
42	BG	29	TRP
42	BG	33	ARG
42	BG	36	LYS
42	BG	37	VAL
42	BG	45	GLU
42	BG	47	LYS
42	BG	52	ILE
42	BG	58	GLN
42	BG	60	LEU
42	BG	67	LYS
42	BG	71	THR
42	BG	80	PHE
42	BG	82	LEU
42	BG	87	PRO

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Mol	Chain	Res	Type
42	BG	103	LEU
42	BG	125	PHE
42	BG	133	LEU
42	BG	135	LEU
42	BG	139	LEU
42	BG	146	TYR
42	BG	153	ARG
42	BG	162	THR
42	BG	166	ASP
42	BG	167	GLU
42	BG	176	LEU
43	BH	41	MET
43	BH	43	VAL
43	BH	50	VAL
43	BH	53	GLU
43	BH	54	ARG
43	BH	65	HIS
43	BH	85	LYS
43	BH	92	ILE
43	BH	104	GLU
43	BH	122	THR
43	BH	130	ARG
43	BH	139	GLN
43	BH	143	GLN
43	BH	152	ARG
43	BH	153	LYS
43	BH	163	TYR
46	BN	1	MET
46	BN	4	TYR
46	BN	19	GLU
46	BN	26	LEU
46	BN	32	THR
46	BN	34	LEU
46	BN	45	ASN
46	BN	48	MET
46	BN	63	THR
46	BN	65	LYS
46	BN	99	LEU
47	BO	4	PRO
47	BO	8	LEU
47	BO	10	VAL
47	BO	32	TYR

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Mol	Chain	Res	Type
47	BO	48	PRO
47	BO	61	VAL
47	BO	69	ILE
47	BO	92	GLU
47	BO	99	PHE
47	BO	105	GLU
47	BO	114	ILE
48	BP	16	ARG
48	BP	18	ARG
48	BP	19	VAL
48	BP	27	HIS
48	BP	35	HIS
48	BP	39	LYS
48	BP	40	SER
48	BP	45	LEU
48	BP	46	LYS
48	BP	52	GLU
48	BP	55	ARG
48	BP	56	SER
48	BP	59	LEU
48	BP	61	ARG
48	BP	62	LEU
48	BP	67	MET
48	BP	68	GLN
48	BP	70	GLN
48	BP	75	ILE
48	BP	85	LEU
48	BP	86	LYS
48	BP	91	PHE
48	BP	100	LEU
48	BP	101	VAL
48	BP	105	LEU
48	BP	130	PHE
48	BP	144	GLU
49	BQ	1	MET
49	BQ	25	ASP
49	BQ	37	LEU
49	BQ	41	TRP
49	BQ	45	GLN
49	BQ	51	ARG
49	BQ	56	ARG
49	BQ	58	PHE

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Mol	Chain	Res	Type
49	BQ	65	PHE
49	BQ	89	ASN
49	BQ	94	VAL
49	BQ	97	VAL
49	BQ	99	PRO
49	BQ	125	LEU
49	BQ	132	VAL
49	BQ	133	ARG
49	BQ	135	ASP
49	BQ	138	ASP
50	BR	2	ARG
50	BR	13	HIS
50	BR	18	LEU
50	BR	29	LEU
50	BR	36	THR
50	BR	37	THR
50	BR	44	LEU
50	BR	67	LEU
50	BR	75	LEU
50	BR	77	ARG
50	BR	79	LEU
50	BR	97	VAL
50	BR	99	LYS
50	BR	100	LEU
50	BR	113	LEU
51	BS	11	LYS
51	BS	12	PHE
51	BS	15	ARG
51	BS	18	ILE
51	BS	36	TYR
51	BS	46	VAL
51	BS	54	LEU
51	BS	57	LYS
51	BS	63	THR
51	BS	97	ARG
51	BS	106	ARG
52	BT	6	LEU
52	BT	15	VAL
52	BT	19	LEU
52	BT	24	PRO
52	BT	32	TYR
52	BT	38	ASN

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Mol	Chain	Res	Type
52	BT	48	ILE
52	BT	49	VAL
52	BT	58	ASN
52	BT	61	PHE
52	BT	65	LYS
52	BT	66	VAL
52	BT	72	VAL
52	BT	75	ILE
52	BT	78	LEU
52	BT	82	LEU
52	BT	89	VAL
52	BT	90	GLN
52	BT	102	ILE
52	BT	128	GLU
53	BU	8	VAL
53	BU	18	LEU
53	BU	20	LEU
53	BU	56	ASP
53	BU	74	LEU
53	BU	102	GLU
53	BU	108	GLU
53	BU	114	LYS
54	BV	14	VAL
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	20	LEU
54	BV	35	LEU
54	BV	39	LEU
54	BV	50	PRO
54	BV	51	VAL
54	BV	61	VAL
54	BV	71	LEU
54	BV	75	PHE
54	BV	95	LEU
54	BV	96	ILE
54	BV	99	ILE
55	BW	1	MET
55	BW	11	ARG
55	BW	17	VAL
55	BW	34	ASN
55	BW	36	LEU

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Mol	Chain	Res	Type
55	BW	51	LEU
55	BW	52	GLU
55	BW	71	VAL
55	BW	77	ASP
55	BW	88	ARG
55	BW	92	ARG
55	BW	102	HIS
55	BW	103	ILE
55	BW	105	VAL
56	BX	7	VAL
56	BX	28	PHE
56	BX	32	PRO
56	BX	39	ILE
56	BX	48	LYS
56	BX	57	LEU
56	BX	66	LEU
56	BX	68	ARG
56	BX	76	ARG
57	BY	2	ARG
57	BY	6	HIS
57	BY	7	VAL
57	BY	32	PRO
57	BY	49	VAL
57	BY	50	ARG
57	BY	53	PRO
57	BY	55	TYR
57	BY	56	PRO
57	BY	57	GLN
57	BY	62	GLU
57	BY	67	LEU
57	BY	75	ILE
57	BY	76	CYS
57	BY	77	PRO
57	BY	83	THR
58	BZ	6	LYS
58	BZ	18	LEU
58	BZ	28	MET
58	BZ	31	ARG
58	BZ	41	LEU
58	BZ	42	VAL
58	BZ	43	GLU
58	BZ	44	PHE

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Mol	Chain	Res	Type
58	BZ	47	VAL
58	BZ	53	ILE
58	BZ	61	LEU
58	BZ	65	GLN
58	BZ	69	THR
58	BZ	76	LEU
58	BZ	79	ARG
58	BZ	81	ARG
58	BZ	86	VAL
58	BZ	97	GLU
58	BZ	103	ARG
58	BZ	104	PHE
58	BZ	123	ASP
58	BZ	127	LYS
58	BZ	134	PRO
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	155	LEU
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	171	ILE
2	CB	15	VAL
2	CB	16	HIS
2	CB	17	PHE
2	CB	20	GLU
2	CB	36	ARG
2	CB	44	LEU
2	CB	52	GLU
2	CB	56	ARG
2	CB	63	MET
2	CB	69	LEU
2	CB	79	ASP
2	CB	80	ILE
2	CB	92	TYR
2	CB	93	VAL
2	CB	94	ASN
2	CB	108	ILE
2	CB	145	LEU
2	CB	172	ILE
2	CB	178	ARG
2	CB	179	LYS
2	CB	187	LEU

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Mol	Chain	Res	Type
2	CB	196	LEU
2	CB	200	ILE
2	CB	204	ASN
3	CC	5	ILE
3	CC	14	ILE
3	CC	18	TRP
3	CC	37	GLN
3	CC	39	ILE
3	CC	54	ARG
3	CC	62	ASP
3	CC	79	ARG
3	CC	107	GLN
3	CC	120	VAL
3	CC	188	LEU
3	CC	191	THR
4	CD	3	ARG
4	CD	9	CYS
4	CD	13	ARG
4	CD	15	GLU
4	CD	20	TYR
4	CD	26	CYS
4	CD	35	ARG
4	CD	45	GLN
4	CD	58	LEU
4	CD	60	GLU
4	CD	67	ILE
4	CD	86	LYS
4	CD	89	THR
4	CD	97	LEU
4	CD	98	GLU
4	CD	99	SER
4	CD	112	VAL
4	CD	122	ARG
4	CD	129	ASN
4	CD	132	ARG
4	CD	135	LEU
4	CD	138	TYR
4	CD	145	GLU
4	CD	160	GLN
4	CD	163	GLU
4	CD	179	GLU
4	CD	187	ARG

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Mol	Chain	Res	Type
4	CD	190	ASP
4	CD	192	GLU
5	CE	7	GLU
5	CE	10	MET
5	CE	12	LEU
5	CE	20	GLN
5	CE	26	PHE
5	CE	33	VAL
5	CE	41	VAL
5	CE	43	LEU
5	CE	51	VAL
5	CE	53	LEU
5	CE	55	VAL
5	CE	68	GLU
5	CE	73	ASN
5	CE	82	VAL
5	CE	91	LEU
5	CE	98	THR
5	CE	115	VAL
5	CE	120	THR
5	CE	131	ILE
5	CE	137	GLU
5	CE	144	THR
5	CE	150	ARG
6	CF	10	LEU
6	CF	14	LEU
6	CF	25	ILE
6	CF	31	GLU
6	CF	43	LEU
6	CF	61	LEU
6	CF	69	GLU
6	CF	84	ASN
6	CF	86	ARG
6	CF	90	VAL
6	CF	98	LEU
7	CG	8	GLU
7	CG	12	LEU
7	CG	13	GLN
7	CG	38	LEU
7	CG	41	ARG
7	CG	54	THR
7	CG	69	VAL

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Mol	Chain	Res	Type
7	CG	72	ARG
7	CG	91	VAL
7	CG	104	LEU
7	CG	112	PRO
7	CG	124	LEU
7	CG	146	GLU
8	CH	1	MET
8	CH	2	LEU
8	CH	3	THR
8	CH	14	ARG
8	CH	23	SER
8	CH	45	ILE
8	CH	52	ASP
8	CH	81	HIS
8	CH	82	HIS
8	CH	83	ILE
8	CH	85	ARG
8	CH	94	TYR
8	CH	109	ILE
8	CH	115	SER
8	CH	119	LEU
8	CH	127	LEU
8	CH	136	GLU
9	CI	4	TYR
9	CI	10	ARG
9	CI	29	ASN
9	CI	47	LEU
9	CI	85	LEU
9	CI	95	LYS
9	CI	99	LEU
9	CI	108	VAL
9	CI	114	TYR
9	CI	128	ARG
10	CJ	16	LEU
10	CJ	25	GLU
10	CJ	40	LEU
10	CJ	45	ARG
10	CJ	48	THR
10	CJ	50	ILE
10	CJ	54	PHE
10	CJ	55	LYS
10	CJ	57	LYS

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Mol	Chain	Res	Type
10	CJ	59	SER
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	71	LEU
10	CJ	73	ASP
10	CJ	74	ILE
10	CJ	80	LYS
10	CJ	95	GLU
10	CJ	96	ILE
10	CJ	98	ILE
11	CK	14	VAL
11	CK	28	THR
11	CK	38	ASN
11	CK	67	ASP
11	CK	75	TYR
11	CK	82	VAL
11	CK	91	ARG
11	CK	114	VAL
11	CK	124	LYS
11	CK	125	PHE
12	CL	6	THR
12	CL	20	LYS
12	CL	27	LEU
12	CL	36	VAL
12	CL	37	CYS
12	CL	38	THR
12	CL	41	ARG
12	CL	42	THR
12	CL	47	LYS
12	CL	52	LEU
12	CL	53	ARG
12	CL	58	VAL
12	CL	67	THR
12	CL	79	GLU
12	CL	80	HIS
12	CL	84	LEU
12	CL	85	ILE
12	CL	89	ARG
12	CL	93	LEU
12	CL	96	VAL
12	CL	98	TYR
12	CL	100	ILE

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Mol	Chain	Res	Type
12	CL	104	VAL
12	CL	105	TYR
13	CM	9	ILE
13	CM	47	ASP
13	CM	56	LEU
13	CM	67	GLU
13	CM	70	LEU
13	CM	71	ARG
13	CM	81	LEU
13	CM	93	ARG
13	CM	108	ARG
13	CM	109	THR
13	CM	115	LYS
13	CM	120	LYS
14	CN	7	ILE
14	CN	14	PRO
14	CN	18	VAL
14	CN	21	TYR
14	CN	29	ARG
14	CN	32	SER
14	CN	42	ILE
14	CN	44	LEU
14	CN	57	ARG
15	CO	3	ILE
15	CO	10	LYS
15	CO	11	VAL
15	CO	19	PRO
15	CO	34	LEU
15	CO	39	LEU
15	CO	54	ARG
15	CO	81	LEU
15	CO	82	ILE
15	CO	85	LEU
15	CO	88	ARG
16	CP	20	VAL
16	CP	21	VAL
16	CP	22	THR
16	CP	27	LYS
16	CP	34	GLU
16	CP	36	ILE
16	CP	58	TYR
16	CP	69	THR

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Mol	Chain	Res	Type
16	CP	82	GLN
17	CQ	7	THR
17	CQ	10	VAL
17	CQ	35	VAL
17	CQ	38	ARG
17	CQ	41	LYS
17	CQ	49	GLU
17	CQ	52	LYS
17	CQ	74	LEU
18	CR	37	VAL
18	CR	46	GLU
18	CR	55	ARG
18	CR	58	LEU
18	CR	65	ILE
18	CR	79	LEU
18	CR	85	LEU
18	CR	88	LYS
19	CS	6	LYS
19	CS	7	LYS
19	CS	10	PHE
19	CS	15	LEU
19	CS	22	LEU
19	CS	27	GLU
19	CS	29	ARG
19	CS	37	ARG
19	CS	44	MET
19	CS	58	VAL
19	CS	77	THR
20	CT	22	ARG
20	CT	24	LEU
20	CT	26	ASN
20	CT	30	LYS
20	CT	36	LEU
20	CT	41	ILE
20	CT	42	GLN
20	CT	45	GLN
20	CT	64	ASP
20	CT	74	LYS
20	CT	93	GLU
21	CU	17	THR
25	CZ	13	ASN
25	CZ	21	ASP

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Mol	Chain	Res	Type
25	CZ	27	LEU
25	CZ	74	LYS
25	CZ	91	ASN
25	CZ	113	MET
25	CZ	138	VAL
25	CZ	149	LEU
25	CZ	163	PHE
25	CZ	167	GLU
25	CZ	195	TRP
25	CZ	203	LEU
25	CZ	218	ASP
25	CZ	223	MET
25	CZ	231	ILE
25	CZ	237	VAL
25	CZ	243	GLU
25	CZ	247	VAL
25	CZ	256	VAL
25	CZ	260	PRO
25	CZ	265	THR
25	CZ	268	THR
25	CZ	270	VAL
25	CZ	277	LEU
25	CZ	279	GLU
25	CZ	284	ASP
25	CZ	285	ASN
25	CZ	286	VAL
25	CZ	300	ARG
25	CZ	303	VAL
25	CZ	310	ILE
25	CZ	335	PHE
25	CZ	348	ASP
25	CZ	349	VAL
25	CZ	359	VAL
25	CZ	367	ASN
25	CZ	368	VAL
25	CZ	395	VAL
25	CZ	401	THR
26	D0	5	LYS
26	D0	11	ARG
26	D0	14	ARG
26	D0	20	ARG
26	D0	27	GLU

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Mol	Chain	Res	Type
26	D0	31	VAL
26	D0	47	PRO
26	D0	56	ASP
26	D0	60	PHE
26	D0	62	LEU
26	D0	64	ASP
26	D0	66	VAL
26	D0	67	VAL
26	D0	71	ASP
26	D0	84	LEU
27	D1	3	LYS
27	D1	4	VAL
27	D1	7	ILE
27	D1	11	ARG
27	D1	13	ILE
27	D1	17	SER
27	D1	21	ARG
27	D1	33	LYS
27	D1	34	THR
27	D1	37	ILE
27	D1	38	SER
27	D1	46	LEU
27	D1	57	GLU
27	D1	66	HIS
27	D1	73	LEU
27	D1	75	GLU
27	D1	80	LEU
27	D1	82	LEU
27	D1	83	GLU
28	D2	3	LEU
28	D2	7	ARG
28	D2	9	GLN
28	D2	20	GLU
28	D2	31	GLU
28	D2	32	LEU
28	D2	35	LEU
28	D2	38	GLN
28	D2	44	LEU
28	D2	49	LYS
28	D2	50	ILE
28	D2	53	LEU
28	D2	56	GLN

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Mol	Chain	Res	Type
28	D2	59	ARG
28	D2	60	LEU
28	D2	68	ARG
29	D3	28	LEU
29	D3	31	LEU
29	D3	35	ARG
29	D3	38	GLU
29	D3	40	THR
29	D3	46	ASN
29	D3	52	HIS
30	D4	5	ILE
30	D4	6	HIS
30	D4	8	LYS
30	D4	9	LEU
30	D4	10	VAL
30	D4	22	ILE
30	D4	25	TYR
30	D4	27	THR
30	D4	28	LYS
30	D4	32	TYR
30	D4	33	VAL
30	D4	34	GLU
30	D4	35	VAL
30	D4	47	GLN
31	D5	3	LYS
31	D5	51	TYR
31	D5	56	LYS
31	D5	57	VAL
32	D6	9	LEU
32	D6	10	LEU
32	D6	31	PRO
32	D6	36	LEU
32	D6	42	TRP
32	D6	43	CYS
32	D6	45	LYS
32	D6	49	HIS
32	D6	52	VAL
32	D6	53	LYS
33	D7	1	MET
33	D7	8	ASN
33	D7	15	THR
33	D7	21	ARG

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Mol	Chain	Res	Type
33	D7	24	THR
33	D7	39	ARG
33	D7	41	ARG
33	D7	44	PRO
33	D7	47	ARG
33	D7	48	LYS
34	D8	34	TRP
34	D8	47	LYS
34	D8	48	PHE
34	D8	49	VAL
34	D8	52	LYS
34	D8	56	GLU
34	D8	61	LEU
34	D8	64	TYR
35	D9	1	MET
35	D9	2	LYS
35	D9	10	ILE
35	D9	14	CYS
35	D9	23	VAL
35	D9	28	GLU
35	D9	29	ASN
38	DC	3	HIS
38	DC	6	ARG
38	DC	12	GLU
38	DC	14	VAL
38	DC	17	ASN
38	DC	23	ASP
38	DC	30	LYS
38	DC	36	LYS
38	DC	40	THR
38	DC	52	ARG
38	DC	55	ASP
38	DC	70	LYS
38	DC	71	GLN
38	DC	72	VAL
38	DC	85	GLU
38	DC	94	VAL
38	DC	111	ASP
38	DC	113	VAL
38	DC	155	GLU
38	DC	156	ILE
38	DC	168	THR

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Mol	Chain	Res	Type
38	DC	183	GLU
38	DC	189	ILE
38	DC	199	HIS
38	DC	224	ILE
38	DC	227	HIS
39	DD	10	THR
39	DD	24	ILE
39	DD	26	LYS
39	DD	28	GLU
39	DD	33	LEU
39	DD	35	LYS
39	DD	37	LEU
39	DD	44	ASN
39	DD	46	GLN
39	DD	52	ARG
39	DD	59	LYS
39	DD	61	LEU
39	DD	63	ARG
39	DD	64	ILE
39	DD	65	ILE
39	DD	92	ILE
39	DD	94	LEU
39	DD	95	LEU
39	DD	103	ARG
39	DD	106	ILE
39	DD	112	GLN
39	DD	117	VAL
39	DD	122	ASP
39	DD	131	LEU
39	DD	136	ILE
39	DD	157	ARG
39	DD	166	GLN
39	DD	174	ILE
39	DD	183	ARG
39	DD	200	ASP
39	DD	212	SER
39	DD	221	VAL
39	DD	246	PRO
39	DD	257	LEU
39	DD	260	ARG
39	DD	267	SER
39	DD	271	ILE

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Mol	Chain	Res	Type
39	DD	273	ARG
39	DD	275	LYS
40	DE	33	VAL
40	DE	42	ASP
40	DE	55	ASN
40	DE	57	LYS
40	DE	69	LYS
40	DE	76	ARG
40	DE	82	ARG
40	DE	95	ILE
40	DE	121	ASN
40	DE	134	ILE
40	DE	145	LYS
40	DE	171	GLU
40	DE	181	LEU
40	DE	188	VAL
41	DF	17	ARG
41	DF	28	ILE
41	DF	88	VAL
41	DF	97	TYR
41	DF	122	LYS
41	DF	138	GLU
41	DF	139	PHE
41	DF	149	ASP
41	DF	155	LEU
41	DF	157	VAL
41	DF	160	ASN
41	DF	164	ARG
41	DF	169	ASN
42	DG	7	LEU
42	DG	12	TYR
42	DG	15	VAL
42	DG	29	TRP
42	DG	33	ARG
42	DG	36	LYS
42	DG	52	ILE
42	DG	60	LEU
42	DG	62	LEU
42	DG	67	LYS
42	DG	71	THR
42	DG	72	ARG
42	DG	78	SER

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Mol	Chain	Res	Type
42	DG	80	PHE
42	DG	82	LEU
42	DG	83	ARG
42	DG	91	ARG
42	DG	107	LEU
42	DG	125	PHE
42	DG	143	GLU
42	DG	146	TYR
42	DG	153	ARG
42	DG	164	GLU
42	DG	165	THR
42	DG	166	ASP
42	DG	176	LEU
43	DH	41	MET
43	DH	43	VAL
43	DH	50	VAL
43	DH	53	GLU
43	DH	54	ARG
43	DH	65	HIS
43	DH	85	LYS
43	DH	92	ILE
43	DH	104	GLU
43	DH	122	THR
43	DH	130	ARG
43	DH	139	GLN
43	DH	143	GLN
43	DH	152	ARG
43	DH	153	LYS
43	DH	163	TYR
46	DN	1	MET
46	DN	4	TYR
46	DN	19	GLU
46	DN	26	LEU
46	DN	32	THR
46	DN	34	LEU
46	DN	45	ASN
46	DN	48	MET
46	DN	63	THR
46	DN	65	LYS
46	DN	99	LEU
47	DO	4	PRO
47	DO	8	LEU

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Mol	Chain	Res	Type
47	DO	10	VAL
47	DO	23	ARG
47	DO	32	TYR
47	DO	48	PRO
47	DO	61	VAL
47	DO	69	ILE
47	DO	92	GLU
47	DO	99	PHE
47	DO	105	GLU
47	DO	114	ILE
48	DP	16	ARG
48	DP	18	ARG
48	DP	19	VAL
48	DP	27	HIS
48	DP	35	HIS
48	DP	39	LYS
48	DP	40	SER
48	DP	42	SER
48	DP	45	LEU
48	DP	46	LYS
48	DP	52	GLU
48	DP	55	ARG
48	DP	56	SER
48	DP	59	LEU
48	DP	61	ARG
48	DP	62	LEU
48	DP	68	GLN
48	DP	70	GLN
48	DP	75	ILE
48	DP	85	LEU
48	DP	86	LYS
48	DP	91	PHE
48	DP	100	LEU
48	DP	101	VAL
48	DP	105	LEU
48	DP	130	PHE
48	DP	144	GLU
49	DQ	1	MET
49	DQ	25	ASP
49	DQ	37	LEU
49	DQ	41	TRP
49	DQ	45	GLN

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Mol	Chain	Res	Type
49	DQ	51	ARG
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	65	PHE
49	DQ	89	ASN
49	DQ	94	VAL
49	DQ	97	VAL
49	DQ	99	PRO
49	DQ	125	LEU
49	DQ	132	VAL
49	DQ	133	ARG
49	DQ	135	ASP
49	DQ	138	ASP
50	DR	2	ARG
50	DR	13	HIS
50	DR	18	LEU
50	DR	29	LEU
50	DR	36	THR
50	DR	37	THR
50	DR	44	LEU
50	DR	67	LEU
50	DR	75	LEU
50	DR	77	ARG
50	DR	79	LEU
50	DR	97	VAL
50	DR	99	LYS
50	DR	100	LEU
50	DR	113	LEU
51	DS	11	LYS
51	DS	12	PHE
51	DS	15	ARG
51	DS	18	ILE
51	DS	36	TYR
51	DS	54	LEU
51	DS	57	LYS
51	DS	63	THR
51	DS	97	ARG
51	DS	106	ARG
52	DT	6	LEU
52	DT	15	VAL
52	DT	19	LEU
52	DT	24	PRO

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Mol	Chain	Res	Type
52	DT	32	TYR
52	DT	38	ASN
52	DT	48	ILE
52	DT	49	VAL
52	DT	58	ASN
52	DT	61	PHE
52	DT	65	LYS
52	DT	66	VAL
52	DT	72	VAL
52	DT	78	LEU
52	DT	82	LEU
52	DT	89	VAL
52	DT	90	GLN
52	DT	102	ILE
52	DT	128	GLU
53	DU	8	VAL
53	DU	18	LEU
53	DU	20	LEU
53	DU	56	ASP
53	DU	74	LEU
53	DU	102	GLU
53	DU	108	GLU
53	DU	114	LYS
54	DV	14	VAL
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	20	LEU
54	DV	35	LEU
54	DV	39	LEU
54	DV	50	PRO
54	DV	51	VAL
54	DV	61	VAL
54	DV	71	LEU
54	DV	75	PHE
54	DV	95	LEU
54	DV	96	ILE
54	DV	99	ILE
55	DW	1	MET
55	DW	11	ARG
55	DW	17	VAL
55	DW	34	ASN

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Mol	Chain	Res	Type
55	DW	36	LEU
55	DW	51	LEU
55	DW	52	GLU
55	DW	71	VAL
55	DW	77	ASP
55	DW	88	ARG
55	DW	92	ARG
55	DW	102	HIS
55	DW	103	ILE
55	DW	105	VAL
56	DX	7	VAL
56	DX	28	PHE
56	DX	32	PRO
56	DX	39	ILE
56	DX	48	LYS
56	DX	57	LEU
56	DX	66	LEU
56	DX	68	ARG
56	DX	76	ARG
57	DY	2	ARG
57	DY	6	HIS
57	DY	7	VAL
57	DY	32	PRO
57	DY	49	VAL
57	DY	50	ARG
57	DY	53	PRO
57	DY	55	TYR
57	DY	56	PRO
57	DY	62	GLU
57	DY	67	LEU
57	DY	75	ILE
57	DY	76	CYS
57	DY	77	PRO
57	DY	83	THR
58	DZ	6	LYS
58	DZ	11	GLU
58	DZ	14	LYS
58	DZ	18	LEU
58	DZ	24	LEU
58	DZ	36	LYS
58	DZ	37	VAL
58	DZ	42	VAL

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Mol	Chain	Res	Type
58	DZ	57	ILE
58	DZ	59	LEU
58	DZ	61	LEU
58	DZ	66	SER
58	DZ	67	LEU
58	DZ	70	LEU
58	DZ	76	LEU
58	DZ	78	LYS
58	DZ	79	ARG
58	DZ	81	ARG
58	DZ	83	PRO
58	DZ	92	SER
58	DZ	97	GLU
58	DZ	103	ARG
58	DZ	123	ASP
58	DZ	125	LEU
58	DZ	127	LYS
58	DZ	163	LEU
58	DZ	166	SER
58	DZ	178	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (372) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	40	HIS
2	AB	45	GLN
2	AB	104	ASN
2	AB	110	GLN
2	AB	113	HIS
2	AB	135	GLN
2	AB	140	HIS
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	3	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	107	GLN
3	AC	118	GLN
3	AC	170	GLN
3	AC	176	HIS
3	AC	181	ASN

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Mol	Chain	Res	Type
4	AD	43	HIS
4	AD	62	GLN
4	AD	119	GLN
4	AD	129	ASN
5	AE	20	GLN
5	AE	65	ASN
5	AE	73	ASN
6	AF	27	GLN
6	AF	32	ASN
6	AF	57	GLN
6	AF	84	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	68	ASN
7	AG	106	GLN
7	AG	122	HIS
7	AG	148	ASN
8	AH	15	ASN
9	AI	3	GLN
9	AI	29	ASN
9	AI	31	GLN
9	AI	87	GLN
9	AI	89	ASN
9	AI	117	HIS
10	AJ	62	HIS
10	AJ	78	ASN
10	AJ	84	GLN
11	AK	38	ASN
11	AK	93	GLN
11	AK	117	ASN
12	AL	8	ASN
12	AL	75	HIS
13	AM	12	ASN
13	AM	77	ASN
13	AM	101	GLN
13	AM	106	ASN
14	AN	52	GLN
15	AO	9	GLN
15	AO	37	ASN
15	AO	53	HIS
15	AO	62	GLN
16	AP	76	GLN

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Mol	Chain	Res	Type
17	AQ	16	GLN
17	AQ	94	ASN
20	AT	26	ASN
20	AT	42	GLN
20	AT	45	GLN
20	AT	75	ASN
25	AZ	19	HIS
25	AZ	22	HIS
25	AZ	39	ASN
25	AZ	67	HIS
25	AZ	79	HIS
25	AZ	85	HIS
25	AZ	98	GLN
25	AZ	115	GLN
25	AZ	119	HIS
25	AZ	193	ASN
25	AZ	285	ASN
25	AZ	331	HIS
25	AZ	341	GLN
25	AZ	354	GLN
25	AZ	367	ASN
26	B0	50	ASN
26	B0	70	GLN
27	B1	45	ASN
27	B1	66	HIS
28	B2	43	GLN
29	B3	19	GLN
29	B3	33	GLN
29	B3	46	ASN
30	B4	20	ASN
30	B4	40	HIS
30	B4	46	GLN
30	B4	47	GLN
31	B5	22	HIS
31	B5	43	HIS
32	B6	20	ASN
32	B6	32	ASN
33	B7	8	ASN
34	B8	33	ASN
34	B8	35	GLN
34	B8	43	GLN
35	B9	29	ASN

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Mol	Chain	Res	Type
35	B9	36	GLN
38	BC	57	ASN
38	BC	71	GLN
38	BC	101	GLN
38	BC	172	HIS
39	BD	96	HIS
39	BD	115	GLN
39	BD	116	GLN
39	BD	126	GLN
39	BD	166	GLN
39	BD	186	HIS
39	BD	201	HIS
40	BE	48	GLN
40	BE	54	GLN
40	BE	55	ASN
40	BE	121	ASN
40	BE	129	HIS
40	BE	132	HIS
40	BE	143	ASN
40	BE	192	ASN
41	BF	8	GLN
41	BF	29	ASN
41	BF	31	HIS
41	BF	40	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	58	GLN
42	BG	66	GLN
42	BG	132	ASN
43	BH	61	HIS
46	BN	45	ASN
46	BN	56	ASN
46	BN	94	HIS
46	BN	128	HIS
46	BN	130	HIS
46	BN	131	GLN
46	BN	133	GLN
47	BO	89	ASN

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Mol	Chain	Res	Type
48	BP	27	HIS
48	BP	38	GLN
48	BP	81	GLN
48	BP	84	ASN
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	45	GLN
50	BR	3	HIS
50	BR	13	HIS
50	BR	23	ASN
50	BR	61	HIS
51	BS	38	GLN
52	BT	38	ASN
52	BT	43	GLN
52	BT	58	ASN
52	BT	79	HIS
52	BT	123	GLN
53	BU	49	HIS
53	BU	66	ASN
53	BU	94	ASN
53	BU	117	GLN
54	BV	11	GLN
54	BV	80	GLN
55	BW	34	ASN
55	BW	40	ASN
55	BW	61	ASN
55	BW	111	HIS
56	BX	41	ASN
56	BX	55	ASN
56	BX	82	GLN
56	BX	87	GLN
57	BY	6	HIS
57	BY	57	GLN
58	BZ	30	ASN
58	BZ	54	HIS
58	BZ	55	HIS
58	BZ	85	HIS
58	BZ	118	GLN
58	BZ	121	HIS
2	CB	40	HIS
2	CB	45	GLN
2	CB	104	ASN

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Mol	Chain	Res	Type
2	CB	110	GLN
2	CB	113	HIS
2	CB	135	GLN
2	CB	140	HIS
2	CB	146	GLN
2	CB	204	ASN
2	CB	212	GLN
3	CC	3	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	37	GLN
3	CC	107	GLN
3	CC	118	GLN
3	CC	162	GLN
3	CC	170	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	42	GLN
4	CD	43	HIS
4	CD	62	GLN
4	CD	119	GLN
4	CD	129	ASN
5	CE	20	GLN
5	CE	65	ASN
5	CE	73	ASN
6	CF	7	ASN
6	CF	27	GLN
6	CF	32	ASN
6	CF	57	GLN
6	CF	84	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	68	ASN
7	CG	106	GLN
7	CG	122	HIS
7	CG	148	ASN
8	CH	15	ASN
8	CH	82	HIS
9	CI	3	GLN
9	CI	29	ASN
9	CI	31	GLN
9	CI	87	GLN

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Mol	Chain	Res	Type
9	CI	89	ASN
9	CI	117	HIS
10	CJ	62	HIS
10	CJ	78	ASN
11	CK	38	ASN
11	CK	93	GLN
11	CK	117	ASN
12	CL	8	ASN
12	CL	75	HIS
13	CM	12	ASN
13	CM	77	ASN
13	CM	101	GLN
13	CM	106	ASN
14	CN	52	GLN
15	CO	37	ASN
15	CO	62	GLN
16	CP	76	GLN
17	CQ	16	GLN
17	CQ	45	HIS
19	CS	14	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	45	GLN
20	CT	75	ASN
25	CZ	19	HIS
25	CZ	22	HIS
25	CZ	39	ASN
25	CZ	67	HIS
25	CZ	79	HIS
25	CZ	85	HIS
25	CZ	98	GLN
25	CZ	115	GLN
25	CZ	119	HIS
25	CZ	125	GLN
25	CZ	185	ASN
25	CZ	285	ASN
25	CZ	331	HIS
25	CZ	341	GLN
25	CZ	367	ASN
26	D0	50	ASN
26	D0	70	GLN
27	D1	16	ASN

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Mol	Chain	Res	Type
27	D1	42	GLN
27	D1	47	GLN
28	D2	43	GLN
28	D2	46	GLN
28	D2	47	ASN
28	D2	71	ASN
29	D3	19	GLN
29	D3	33	GLN
29	D3	46	ASN
30	D4	20	ASN
30	D4	40	HIS
30	D4	46	GLN
30	D4	47	GLN
31	D5	22	HIS
31	D5	43	HIS
32	D6	20	ASN
32	D6	32	ASN
33	D7	8	ASN
34	D8	33	ASN
34	D8	35	GLN
34	D8	43	GLN
35	D9	29	ASN
35	D9	32	HIS
35	D9	36	GLN
38	DC	57	ASN
38	DC	71	GLN
38	DC	101	GLN
38	DC	172	HIS
39	DD	96	HIS
39	DD	115	GLN
39	DD	126	GLN
39	DD	166	GLN
39	DD	186	HIS
39	DD	201	HIS
40	DE	48	GLN
40	DE	54	GLN
40	DE	55	ASN
40	DE	121	ASN
40	DE	129	HIS
40	DE	132	HIS
40	DE	143	ASN
40	DE	169	ASN

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Mol	Chain	Res	Type
40	DE	192	ASN
41	DF	8	GLN
41	DF	29	ASN
41	DF	31	HIS
41	DF	40	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	40	ASN
42	DG	123	ASN
43	DH	61	HIS
43	DH	147	ASN
46	DN	45	ASN
46	DN	56	ASN
46	DN	94	HIS
46	DN	128	HIS
46	DN	130	HIS
46	DN	131	GLN
46	DN	133	GLN
47	DO	89	ASN
48	DP	27	HIS
48	DP	38	GLN
48	DP	81	GLN
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	45	GLN
49	DQ	141	GLN
50	DR	3	HIS
50	DR	13	HIS
50	DR	23	ASN
50	DR	24	GLN
50	DR	61	HIS
51	DS	38	GLN
52	DT	38	ASN
52	DT	58	ASN
52	DT	79	HIS
52	DT	123	GLN
53	DU	49	HIS

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Mol	Chain	Res	Type
53	DU	66	ASN
53	DU	94	ASN
53	DU	117	GLN
54	DV	11	GLN
55	DW	34	ASN
55	DW	40	ASN
55	DW	61	ASN
55	DW	111	HIS
56	DX	41	ASN
56	DX	55	ASN
56	DX	87	GLN
57	DY	6	HIS
57	DY	57	GLN
58	DZ	54	HIS
58	DZ	55	HIS
58	DZ	65	GLN
58	DZ	85	HIS
58	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	288 (19%)	59 (3%)
1	CA	1503/1522 (98%)	284 (18%)	59 (3%)
22	AV	75/76 (98%)	20 (26%)	0
22	AW	75/76 (98%)	21 (28%)	2 (2%)
22	CV	75/76 (98%)	20 (26%)	0
22	CW	75/76 (98%)	21 (28%)	2 (2%)
23	AX	12/27 (44%)	4 (33%)	0
23	CX	12/27 (44%)	4 (33%)	0
24	AY	73/77 (94%)	29 (39%)	0
24	CY	73/77 (94%)	28 (38%)	0
36	BA	2900/2915 (99%)	648 (22%)	55 (1%)
36	DA	2900/2915 (99%)	654 (22%)	55 (1%)
37	BB	118/122 (96%)	29 (24%)	1 (0%)
37	DB	118/122 (96%)	29 (24%)	1 (0%)
All	All	9512/9630 (98%)	2079 (21%)	234 (2%)

All (2079) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	55	A
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	82	U
1	AA	84	U
1	AA	89	C
1	AA	90	U
1	AA	101	A
1	AA	109	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	129(A)	G
1	AA	131	C
1	AA	137	C
1	AA	144	G
1	AA	151	A
1	AA	174	C
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	189(I)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	199	G
1	AA	201	C
1	AA	203	U
1	AA	220	G
1	AA	244	U

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Mol	Chain	Res	Type
1	AA	246	A
1	AA	247	G
1	AA	251	G
1	AA	267	C
1	AA	272	C
1	AA	275	G
1	AA	279	A
1	AA	281	G
1	AA	289	G
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	345	C
1	AA	346	G
1	AA	347	G
1	AA	348	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	368	U
1	AA	370	C
1	AA	372	C
1	AA	373	A
1	AA	389	A
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	424	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	452	A
1	AA	453	A
1	AA	454	C
1	AA	484	G
1	AA	485	G
1	AA	495	A

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Mol	Chain	Res	Type
1	AA	496	A
1	AA	498	U
1	AA	499	A
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	548	G
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	564	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	607	A
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	633	G
1	AA	642	A
1	AA	653	A
1	AA	665	A
1	AA	688	G
1	AA	701	C
1	AA	702	A
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	734	G
1	AA	748	C
1	AA	749	C
1	AA	755	G
1	AA	771	G

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Mol	Chain	Res	Type
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	828	A
1	AA	839	U
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	864	A
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	902	G
1	AA	912	C
1	AA	914	A
1	AA	916	G
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	966	G
1	AA	967	C
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
1	AA	980	C
1	AA	981	U
1	AA	982	U
1	AA	983	A
1	AA	991	U

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Mol	Chain	Res	Type
1	AA	992	U
1	AA	993	G
1	AA	996	A
1	AA	1001(A)	G
1	AA	1004	A
1	AA	1026	G
1	AA	1027	C
1	AA	1050	G
1	AA	1051	C
1	AA	1054	C
1	AA	1064	G
1	AA	1066	C
1	AA	1085	U
1	AA	1086	U
1	AA	1087	G
1	AA	1094	G
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1146	A
1	AA	1154	G
1	AA	1158	C
1	AA	1159	U
1	AA	1184	G
1	AA	1196	U
1	AA	1199	U
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1212	U

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Mol	Chain	Res	Type
1	AA	1213	A
1	AA	1214	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1280	A
1	AA	1281	U
1	AA	1284	C
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	1303	C
1	AA	1305	G
1	AA	1306	A
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	1337	G
1	AA	1338	G
1	AA	1347	G
1	AA	1348	U
1	AA	1349	A
1	AA	1359	C
1	AA	1363(A)	A
1	AA	1364	U
1	AA	1365	G
1	AA	1373	G

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Mol	Chain	Res	Type
1	AA	1381	U
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1400	C
1	AA	1406	U
1	AA	1419	G
1	AA	1420	C
1	AA	1422	G
1	AA	1428	A
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1447	A
1	AA	1456	G
1	AA	1469	G
1	AA	1470	G
1	AA	1481	U
1	AA	1483	A
1	AA	1485	U
1	AA	1492	A
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	1508	G
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
22	AV	7	A
22	AV	8	U
22	AV	18	G
22	AV	20	U
22	AV	22	G
22	AV	41	C
22	AV	42	C

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Mol	Chain	Res	Type
22	AV	46	G
22	AV	47	U
22	AV	48	C
22	AV	49	C
22	AV	50	U
22	AV	52	G
22	AV	59	U
22	AV	60	U
22	AV	61	C
22	AV	62	C
22	AV	69	G
22	AV	75	C
22	AV	76	A
22	AW	4	C
22	AW	8	U
22	AW	9	A
22	AW	10	G
22	AW	16	U
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	21	A
22	AW	39	U
22	AW	44	G
22	AW	45	U
22	AW	47	U
22	AW	49	C
22	AW	50	U
22	AW	59	U
22	AW	60	U
22	AW	61	C
22	AW	62	C
22	AW	70	G
22	AW	74	C
23	AX	16	A
23	AX	22	A
23	AX	26	A
23	AX	27	A
24	AY	2	C
24	AY	3	U
24	AY	9	A
24	AY	10	G

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Mol	Chain	Res	Type
24	AY	12	U
24	AY	14	A
24	AY	16	H2U
24	AY	17	H2U
24	AY	18	G
24	AY	19	G
24	AY	20	H2U
24	AY	21	A
24	AY	22	G
24	AY	34	G
24	AY	41	G
24	AY	42	U
24	AY	43	G
24	AY	45	G
24	AY	48	C
24	AY	55	PSU
24	AY	56	C
24	AY	57	G
24	AY	59	A
24	AY	61	C
24	AY	62	U
24	AY	72	C
24	AY	73	A
24	AY	75	C
24	AY	76	A
36	BA	10	G
36	BA	15	G
36	BA	27	G
36	BA	32	C
36	BA	34	C
36	BA	45	C
36	BA	49	A
36	BA	50	U
36	BA	61	G
36	BA	63	U
36	BA	69	C
36	BA	71	A
36	BA	72	U
36	BA	74	A
36	BA	75	G
36	BA	76	C
36	BA	82	G

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Mol	Chain	Res	Type
36	BA	84	A
36	BA	85	G
36	BA	88	G
36	BA	90	U
36	BA	92	A
36	BA	94	C
36	BA	95	G
36	BA	96	G
36	BA	100	G
36	BA	102	G
36	BA	112	U
36	BA	118	A
36	BA	119	A
36	BA	120	U
36	BA	129	C
36	BA	139(A)	G
36	BA	141	A
36	BA	146	G
36	BA	153	C
36	BA	155	U
36	BA	174	C
36	BA	181	A
36	BA	182	A
36	BA	196	A
36	BA	197	A
36	BA	198	C
36	BA	199	A
36	BA	204	A
36	BA	205	G
36	BA	215	G
36	BA	221	A
36	BA	222	A
36	BA	229	A
36	BA	230	U
36	BA	233	A
36	BA	244	A
36	BA	245	G
36	BA	248	G
36	BA	266	G
36	BA	267	C
36	BA	271(K)	U
36	BA	271(L)	U

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Mol	Chain	Res	Type
36	BA	271(M)	G
36	BA	271(N)	U
36	BA	271(O)	C
36	BA	271(P)	C
36	BA	271(R)	G
36	BA	272(A)	U
36	BA	272(B)	G
36	BA	272(I)	U
36	BA	274	G
36	BA	276	A
36	BA	284	U
36	BA	288	C
36	BA	299	A
36	BA	310	A
36	BA	312	G
36	BA	323	G
36	BA	329	G
36	BA	330	A
36	BA	331	A
36	BA	332	A
36	BA	333	G
36	BA	338	G
36	BA	343	C
36	BA	344	G
36	BA	349	G
36	BA	352	G
36	BA	353	G
36	BA	356	G
36	BA	358	U
36	BA	362	U
36	BA	363	G
36	BA	363(F)	A
36	BA	364	C
36	BA	372	G
36	BA	386	G
36	BA	387	U
36	BA	388	G
36	BA	394	A
36	BA	396	G
36	BA	405	U
36	BA	406	G
36	BA	411	G

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Mol	Chain	Res	Type
36	BA	412	A
36	BA	418	G
36	BA	428	A
36	BA	435	C
36	BA	444	C
36	BA	448	U
36	BA	451	C
36	BA	456	C
36	BA	457	A
36	BA	467	G
36	BA	470	A
36	BA	472	A
36	BA	473	G
36	BA	480	A
36	BA	481	G
36	BA	482	A
36	BA	483	A
36	BA	485	C
36	BA	494	G
36	BA	505	A
36	BA	508	G
36	BA	509	C
36	BA	512	G
36	BA	525	U
36	BA	527	C
36	BA	528	A
36	BA	530	G
36	BA	531	C
36	BA	532	A
36	BA	533	G
36	BA	537	C
36	BA	556	G
36	BA	561	G
36	BA	562	U
36	BA	563	G
36	BA	572	A
36	BA	573	G
36	BA	575	A
36	BA	586	A
36	BA	588	U
36	BA	592	G
36	BA	599	G

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Mol	Chain	Res	Type
36	BA	603	A
36	BA	604	G
36	BA	607	U
36	BA	613	G
36	BA	614(B)	G
36	BA	614(C)	A
36	BA	615	G
36	BA	620	G
36	BA	627	A
36	BA	629	G
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(J)	A
36	BA	654(K)	C
36	BA	656	G
36	BA	668	G
36	BA	669	G
36	BA	670	A
36	BA	673	C
36	BA	686	G
36	BA	695	G
36	BA	708	C
36	BA	717	G
36	BA	719	C
36	BA	722	A
36	BA	730	C
36	BA	748	G
36	BA	753	C
36	BA	765	G
36	BA	776	G
36	BA	782	A
36	BA	784	A
36	BA	785	G
36	BA	790	C
36	BA	791	C
36	BA	792	G
36	BA	805	G
36	BA	812	C

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Mol	Chain	Res	Type
36	BA	819	A
36	BA	827	U
36	BA	828	U
36	BA	830	G
36	BA	846	C
36	BA	848	G
36	BA	857	C
36	BA	859	G
36	BA	865	C
36	BA	866	A
36	BA	878	A
36	BA	889	C
36	BA	890	A
36	BA	896	A
36	BA	897	C
36	BA	904	C
36	BA	910	A
36	BA	917	A
36	BA	926	A
36	BA	932	G
36	BA	933	A
36	BA	935	C
36	BA	941	A
36	BA	945	A
36	BA	946	G
36	BA	958	U
36	BA	959	A
36	BA	961	C
36	BA	964	C
36	BA	965	C
36	BA	974	G
36	BA	975	C
36	BA	980	A
36	BA	983	A
36	BA	985	C
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	1022	G

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Mol	Chain	Res	Type
36	BA	1025	G
36	BA	1026	U
36	BA	1027	A
36	BA	1033	U
36	BA	1039	G
36	BA	1045	A
36	BA	1047	G
36	BA	1048	A
36	BA	1051	G
36	BA	1053	C
36	BA	1059	G
36	BA	1061	U
36	BA	1062	G
36	BA	1065	U
36	BA	1067	A
36	BA	1068	G
36	BA	1069	A
36	BA	1070	A
36	BA	1071	G
36	BA	1072	C
36	BA	1073	A
36	BA	1079	C
36	BA	1087	G
36	BA	1088	A
36	BA	1091	G
36	BA	1098	A
36	BA	1103	A
36	BA	1107	G
36	BA	1108	U
36	BA	1111	A
36	BA	1112	G
36	BA	1114	G
36	BA	1129	A
36	BA	1130	U
36	BA	1135	C
36	BA	1136	G
36	BA	1142	U
36	BA	1143	A
36	BA	1152	C
36	BA	1154	G
36	BA	1155	A
36	BA	1157	G

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Mol	Chain	Res	Type
36	BA	1167	U
36	BA	1170	G
36	BA	1171	G
36	BA	1174	A
36	BA	1175	U
36	BA	1176	G
36	BA	1177	A
36	BA	1178	C
36	BA	1194	A
36	BA	1195	G
36	BA	1204	A
36	BA	1205	U
36	BA	1210	A
36	BA	1211	U
36	BA	1212	G
36	BA	1218	C
36	BA	1221	C
36	BA	1223	G
36	BA	1227	G
36	BA	1238	G
36	BA	1244	G
36	BA	1250	G
36	BA	1253	A
36	BA	1255	U
36	BA	1256	G
36	BA	1265	A
36	BA	1271	G
36	BA	1272	A
36	BA	1273	U
36	BA	1289	C
36	BA	1292	U
36	BA	1300	U
36	BA	1301	A
36	BA	1302	A
36	BA	1314	C
36	BA	1319	G
36	BA	1321	A
36	BA	1332	G
36	BA	1338	G
36	BA	1343	G
36	BA	1349	A
36	BA	1359	A

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Mol	Chain	Res	Type
36	BA	1364	G
36	BA	1365	A
36	BA	1378	A
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	1398	C
36	BA	1404	C
36	BA	1407	C
36	BA	1416	G
36	BA	1419	A
36	BA	1420	U
36	BA	1421	G
36	BA	1427	A
36	BA	1428	C
36	BA	1433	U
36	BA	1437	C
36	BA	1445	A
36	BA	1449	A
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	1471	A
36	BA	1475	G
36	BA	1478	G
36	BA	1482	G
36	BA	1485	G
36	BA	1488	G
36	BA	1490	A
36	BA	1493	C
36	BA	1494	A
36	BA	1495	A
36	BA	1497	U
36	BA	1499	C
36	BA	1502	C
36	BA	1505	C

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Mol	Chain	Res	Type
36	BA	1509	C
36	BA	1509(A)	A
36	BA	1512	U
36	BA	1517	G
36	BA	1528(A)	A
36	BA	1541	G
36	BA	1542	A
36	BA	1544	A
36	BA	1554	A
36	BA	1558	A
36	BA	1559	G
36	BA	1569	A
36	BA	1575	C
36	BA	1578	U
36	BA	1579	A
36	BA	1580	A
36	BA	1584	C
36	BA	1586	A
36	BA	1587	A
36	BA	1591	G
36	BA	1598	C
36	BA	1603	A
36	BA	1608	A
36	BA	1614	A
36	BA	1615	C
36	BA	1616	A
36	BA	1617	C
36	BA	1618	A
36	BA	1634	A
36	BA	1640	C
36	BA	1648	C
36	BA	1653	G
36	BA	1654	A
36	BA	1666	G
36	BA	1674	G
36	BA	1688	U
36	BA	1693	U
36	BA	1694	C
36	BA	1695	G
36	BA	1698	A
36	BA	1699	G
36	BA	1700	A

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Mol	Chain	Res	Type
36	BA	1703	G
36	BA	1717	G
36	BA	1718	G
36	BA	1721	G
36	BA	1722	A
36	BA	1739	U
36	BA	1740	G
36	BA	1742	G
36	BA	1748	G
36	BA	1756	G
36	BA	1763	G
36	BA	1764	G
36	BA	1773	A
36	BA	1780	A
36	BA	1781	C
36	BA	1782	C
36	BA	1791	A
36	BA	1799	G
36	BA	1800	C
36	BA	1801	G
36	BA	1816	G
36	BA	1817	G
36	BA	1820	U
36	BA	1821	A
36	BA	1833	U
36	BA	1835	G
36	BA	1838	C
36	BA	1839	G
36	BA	1847	A
36	BA	1848	A
36	BA	1858	G
36	BA	1865	G
36	BA	1866	C
36	BA	1878	G
36	BA	1881	C
36	BA	1882	C
36	BA	1885	A
36	BA	1888	G
36	BA	1900	A
36	BA	1902	C
36	BA	1903	G
36	BA	1906	G

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Mol	Chain	Res	Type
36	BA	1912	A
36	BA	1913	A
36	BA	1929	G
36	BA	1930	G
36	BA	1936	A
36	BA	1938	A
36	BA	1944	U
36	BA	1948	G
36	BA	1955	U
36	BA	1956	U
36	BA	1962	C
36	BA	1963	U
36	BA	1967	C
36	BA	1969	A
36	BA	1970	A
36	BA	1971	A
36	BA	1972	A
36	BA	1987	G
36	BA	1992	G
36	BA	1993	U
36	BA	1997	G
36	BA	2023	G
36	BA	2029	G
36	BA	2031	A
36	BA	2034	U
36	BA	2036	C
36	BA	2041	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	2069	G
36	BA	2093	G
36	BA	2096	U
36	BA	2100	G
36	BA	2102	U
36	BA	2103	C
36	BA	2104	G
36	BA	2107	C
36	BA	2108	C

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Mol	Chain	Res	Type
36	BA	2109	U
36	BA	2111	C
36	BA	2116	G
36	BA	2117	A
36	BA	2118	U
36	BA	2127	G
36	BA	2128	C
36	BA	2129	C
36	BA	2131	G
36	BA	2132	U
36	BA	2133	G
36	BA	2145	C
36	BA	2146	C
36	BA	2147	G
36	BA	2156	G
36	BA	2160	G
36	BA	2165	G
36	BA	2172	U
36	BA	2173	A
36	BA	2174	C
36	BA	2179	C
36	BA	2180	U
36	BA	2183	C
36	BA	2185	C
36	BA	2186	G
36	BA	2187	G
36	BA	2189	U
36	BA	2190	G
36	BA	2192	G
36	BA	2193	G
36	BA	2198	A
36	BA	2200	C
36	BA	2203	U
36	BA	2207	G
36	BA	2208	A
36	BA	2218	U
36	BA	2219	G
36	BA	2225	A
36	BA	2238	G
36	BA	2269	A
36	BA	2275	C
36	BA	2283	C

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Mol	Chain	Res	Type
36	BA	2287	A
36	BA	2305	A
36	BA	2307	G
36	BA	2308	G
36	BA	2311	A
36	BA	2312	U
36	BA	2313	C
36	BA	2319	G
36	BA	2320	A
36	BA	2327	A
36	BA	2336	A
36	BA	2342	C
36	BA	2343	C
36	BA	2345	G
36	BA	2347	C
36	BA	2350	C
36	BA	2361	A
36	BA	2383	G
36	BA	2385	C
36	BA	2390	U
36	BA	2392	A
36	BA	2399	G
36	BA	2402	C
36	BA	2405	G
36	BA	2406	U
36	BA	2423	U
36	BA	2424	C
36	BA	2425	A
36	BA	2427	C
36	BA	2429	G
36	BA	2430	A
36	BA	2434	A
36	BA	2439	A
36	BA	2441	C
36	BA	2448	A
36	BA	2465	C
36	BA	2469	A
36	BA	2470	G
36	BA	2476	A
36	BA	2477	C
36	BA	2478	A
36	BA	2482	G

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Mol	Chain	Res	Type
36	BA	2494	G
36	BA	2497	A
36	BA	2505	G
36	BA	2509	G
36	BA	2518	A
36	BA	2521	C
36	BA	2524	G
36	BA	2529	G
36	BA	2543	G
36	BA	2554	U
36	BA	2566	A
36	BA	2567	G
36	BA	2572	A
36	BA	2573	C
36	BA	2578	G
36	BA	2582	G
36	BA	2586	C
36	BA	2593	U
36	BA	2602	A
36	BA	2609	U
36	BA	2610	C
36	BA	2611	U
36	BA	2612	C
36	BA	2615	U
36	BA	2630	G
36	BA	2639	A
36	BA	2641	G
36	BA	2646	C
36	BA	2653	U
36	BA	2654	A
36	BA	2655	G
36	BA	2657	A
36	BA	2670	A
36	BA	2673	G
36	BA	2675	A
36	BA	2682	U
36	BA	2690	C
36	BA	2691	C
36	BA	2703	C
36	BA	2712	U
36	BA	2712(A)	A
36	BA	2713	A

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Mol	Chain	Res	Type
36	BA	2720	U
36	BA	2726	U
36	BA	2732	G
36	BA	2733	A
36	BA	2750	A
36	BA	2751	G
36	BA	2752	C
36	BA	2757	A
36	BA	2759	G
36	BA	2761	G
36	BA	2762	G
36	BA	2763	G
36	BA	2765	A
36	BA	2766	G
36	BA	2777	G
36	BA	2778	A
36	BA	2779	U
36	BA	2780	G
36	BA	2781	A
36	BA	2787	C
36	BA	2789	C
36	BA	2790	A
36	BA	2791	C
36	BA	2794	C
36	BA	2801	A
36	BA	2801(A)	A
36	BA	2802	G
36	BA	2803	C
36	BA	2808	U
36	BA	2811	G
36	BA	2813	A
36	BA	2817	G
36	BA	2818	G
36	BA	2820	A
36	BA	2821	A
36	BA	2833	G
36	BA	2834	G
36	BA	2835	A
36	BA	2849	U
36	BA	2872	G
36	BA	2879	C
36	BA	2883	A

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Mol	Chain	Res	Type
36	BA	2893	G
37	BB	2	C
37	BB	8	U
37	BB	12	C
37	BB	13	A
37	BB	15	A
37	BB	16	G
37	BB	17	C
37	BB	19	G
37	BB	21	G
37	BB	25	A
37	BB	26	A
37	BB	32	C
37	BB	35	U
37	BB	39	A
37	BB	40	U
37	BB	41	U
37	BB	42	C
37	BB	43	C
37	BB	45	A
37	BB	53	A
37	BB	57	A
37	BB	68	C
37	BB	73	A
37	BB	75	G
37	BB	81	G
37	BB	88	C
37	BB	101	G
37	BB	110	G
37	BB	113	G
1	CA	8	A
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	55	A
1	CA	61	G
1	CA	65	U
1	CA	66	G

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Mol	Chain	Res	Type
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	82	U
1	CA	84	U
1	CA	89	C
1	CA	90	U
1	CA	101	A
1	CA	109	A
1	CA	110	C
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	122	G
1	CA	129(A)	G
1	CA	131	C
1	CA	137	C
1	CA	144	G
1	CA	151	A
1	CA	174	C
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	189(I)	G
1	CA	195	A
1	CA	197	A
1	CA	198	G
1	CA	199	G
1	CA	201	C
1	CA	203	U
1	CA	220	G
1	CA	244	U
1	CA	246	A
1	CA	247	G
1	CA	251	G
1	CA	267	C
1	CA	272	C
1	CA	275	G
1	CA	279	A
1	CA	281	G
1	CA	289	G
1	CA	328	C
1	CA	330	C

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Mol	Chain	Res	Type
1	CA	332	G
1	CA	345	C
1	CA	346	G
1	CA	347	G
1	CA	348	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	368	U
1	CA	370	C
1	CA	372	C
1	CA	373	A
1	CA	389	A
1	CA	397	A
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	424	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	439	A
1	CA	452	A
1	CA	453	A
1	CA	454	C
1	CA	484	G
1	CA	485	G
1	CA	495	A
1	CA	496	A
1	CA	498	U
1	CA	499	A
1	CA	508	C
1	CA	509	A
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	527	G
1	CA	531	U
1	CA	532	A

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Mol	Chain	Res	Type
1	CA	533	A
1	CA	534	U
1	CA	548	G
1	CA	561	U
1	CA	562	C
1	CA	563	A
1	CA	564	C
1	CA	571	U
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	607	A
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	633	G
1	CA	642	A
1	CA	653	A
1	CA	665	A
1	CA	688	G
1	CA	701	C
1	CA	702	A
1	CA	721	G
1	CA	722	A
1	CA	723	U
1	CA	734	G
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	771	G
1	CA	777	A
1	CA	790	A
1	CA	793	U
1	CA	794	A
1	CA	816	A
1	CA	817	C
1	CA	818	G
1	CA	828	A
1	CA	839	U
1	CA	841	U

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Mol	Chain	Res	Type
1	CA	848	C
1	CA	858	G
1	CA	859	A
1	CA	864	A
1	CA	885	G
1	CA	889	A
1	CA	890	G
1	CA	902	G
1	CA	912	C
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	962	C
1	CA	966	G
1	CA	967	C
1	CA	968	A
1	CA	969	A
1	CA	971	G
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	982	U
1	CA	983	A
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	996	A
1	CA	1001(A)	G
1	CA	1004	A
1	CA	1026	G
1	CA	1027	C
1	CA	1050	G
1	CA	1051	C
1	CA	1054	C

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Mol	Chain	Res	Type
1	CA	1064	G
1	CA	1066	C
1	CA	1085	U
1	CA	1086	U
1	CA	1087	G
1	CA	1094	G
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1141	C
1	CA	1146	A
1	CA	1154	G
1	CA	1158	C
1	CA	1159	U
1	CA	1184	G
1	CA	1190	G
1	CA	1196	U
1	CA	1199	U
1	CA	1200	C
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
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

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Mol	Chain	Res	Type
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1280	A
1	CA	1281	U
1	CA	1284	C
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	1303	C
1	CA	1305	G
1	CA	1306	A
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	1337	G
1	CA	1338	G
1	CA	1347	G
1	CA	1348	U
1	CA	1349	A
1	CA	1359	C
1	CA	1363(A)	A
1	CA	1364	U
1	CA	1365	G
1	CA	1373	G
1	CA	1381	U
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C
1	CA	1419	G
1	CA	1420	C
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A

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Mol	Chain	Res	Type
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1492	A
1	CA	1497	G
1	CA	1498	U
1	CA	1499	A
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1508	G
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
22	CV	7	A
22	CV	8	U
22	CV	18	G
22	CV	20	U
22	CV	22	G
22	CV	41	C
22	CV	42	C
22	CV	46	G
22	CV	47	U
22	CV	48	C
22	CV	49	C
22	CV	50	U
22	CV	52	G
22	CV	59	U
22	CV	60	U
22	CV	61	C
22	CV	62	C
22	CV	69	G
22	CV	75	C
22	CV	76	A
22	CW	4	C
22	CW	8	U

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Mol	Chain	Res	Type
22	CW	9	A
22	CW	10	G
22	CW	16	U
22	CW	17	C
22	CW	18	G
22	CW	19	G
22	CW	21	A
22	CW	39	U
22	CW	44	G
22	CW	45	U
22	CW	47	U
22	CW	49	C
22	CW	50	U
22	CW	59	U
22	CW	60	U
22	CW	61	C
22	CW	62	C
22	CW	70	G
22	CW	74	C
23	CX	16	A
23	CX	22	A
23	CX	26	A
23	CX	27	A
24	CY	2	C
24	CY	3	U
24	CY	9	A
24	CY	10	G
24	CY	12	U
24	CY	14	A
24	CY	16	H2U
24	CY	17	H2U
24	CY	18	G
24	CY	19	G
24	CY	20	H2U
24	CY	21	A
24	CY	22	G
24	CY	34	G
24	CY	41	G
24	CY	42	U
24	CY	43	G
24	CY	48	C
24	CY	55	PSU

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Mol	Chain	Res	Type
24	CY	56	C
24	CY	57	G
24	CY	59	A
24	CY	61	C
24	CY	62	U
24	CY	72	C
24	CY	73	A
24	CY	75	C
24	CY	76	A
36	DA	10	G
36	DA	15	G
36	DA	27	G
36	DA	32	C
36	DA	34	C
36	DA	45	C
36	DA	49	A
36	DA	50	U
36	DA	61	G
36	DA	63	U
36	DA	69	C
36	DA	71	A
36	DA	72	U
36	DA	74	A
36	DA	75	G
36	DA	76	C
36	DA	82	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	96	G
36	DA	100	G
36	DA	102	G
36	DA	112	U
36	DA	118	A
36	DA	119	A
36	DA	120	U
36	DA	129	C
36	DA	139(A)	G

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Mol	Chain	Res	Type
36	DA	141	A
36	DA	146	G
36	DA	153	C
36	DA	155	U
36	DA	174	C
36	DA	181	A
36	DA	182	A
36	DA	196	A
36	DA	197	A
36	DA	198	C
36	DA	199	A
36	DA	204	A
36	DA	205	G
36	DA	215	G
36	DA	221	A
36	DA	222	A
36	DA	229	A
36	DA	230	U
36	DA	233	A
36	DA	244	A
36	DA	245	G
36	DA	248	G
36	DA	266	G
36	DA	267	C
36	DA	271(K)	U
36	DA	271(L)	U
36	DA	271(M)	G
36	DA	271(N)	U
36	DA	271(O)	C
36	DA	271(P)	C
36	DA	271(R)	G
36	DA	272(A)	U
36	DA	272(B)	G
36	DA	272(I)	U
36	DA	274	G
36	DA	276	A
36	DA	284	U
36	DA	288	C
36	DA	299	A
36	DA	300	A
36	DA	310	A
36	DA	312	G

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Mol	Chain	Res	Type
36	DA	323	G
36	DA	329	G
36	DA	330	A
36	DA	331	A
36	DA	332	A
36	DA	333	G
36	DA	338	G
36	DA	343	C
36	DA	344	G
36	DA	349	G
36	DA	352	G
36	DA	353	G
36	DA	356	G
36	DA	358	U
36	DA	362	U
36	DA	363	G
36	DA	363(F)	A
36	DA	364	C
36	DA	372	G
36	DA	386	G
36	DA	387	U
36	DA	388	G
36	DA	394	A
36	DA	396	G
36	DA	405	U
36	DA	406	G
36	DA	411	G
36	DA	412	A
36	DA	418	G
36	DA	428	A
36	DA	435	C
36	DA	444	C
36	DA	448	U
36	DA	451	C
36	DA	456	C
36	DA	457	A
36	DA	467	G
36	DA	470	A
36	DA	472	A
36	DA	473	G
36	DA	480	A
36	DA	481	G

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Mol	Chain	Res	Type
36	DA	482	A
36	DA	483	A
36	DA	485	C
36	DA	494	G
36	DA	505	A
36	DA	508	G
36	DA	509	C
36	DA	512	G
36	DA	525	U
36	DA	527	C
36	DA	528	A
36	DA	530	G
36	DA	531	C
36	DA	532	A
36	DA	533	G
36	DA	537	C
36	DA	556	G
36	DA	561	G
36	DA	562	U
36	DA	563	G
36	DA	572	A
36	DA	573	G
36	DA	575	A
36	DA	586	A
36	DA	588	U
36	DA	592	G
36	DA	599	G
36	DA	603	A
36	DA	604	G
36	DA	607	U
36	DA	613	G
36	DA	614(B)	G
36	DA	614(C)	A
36	DA	615	G
36	DA	620	G
36	DA	627	A
36	DA	629	G
36	DA	634	C
36	DA	637	A
36	DA	645	C
36	DA	646	A
36	DA	651	G

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Mol	Chain	Res	Type
36	DA	653	A
36	DA	654	A
36	DA	654(J)	A
36	DA	654(K)	C
36	DA	656	G
36	DA	668	G
36	DA	669	G
36	DA	670	A
36	DA	673	C
36	DA	686	G
36	DA	695	G
36	DA	708	C
36	DA	717	G
36	DA	719	C
36	DA	722	A
36	DA	730	C
36	DA	748	G
36	DA	753	C
36	DA	765	G
36	DA	776	G
36	DA	782	A
36	DA	784	A
36	DA	785	G
36	DA	790	C
36	DA	791	C
36	DA	792	G
36	DA	805	G
36	DA	812	C
36	DA	819	A
36	DA	827	U
36	DA	828	U
36	DA	830	G
36	DA	846	C
36	DA	848	G
36	DA	857	C
36	DA	859	G
36	DA	865	C
36	DA	866	A
36	DA	878	A
36	DA	889	C
36	DA	890	A
36	DA	896	A

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Mol	Chain	Res	Type
36	DA	897	C
36	DA	904	C
36	DA	910	A
36	DA	917	A
36	DA	926	A
36	DA	932	G
36	DA	933	A
36	DA	935	C
36	DA	941	A
36	DA	945	A
36	DA	946	G
36	DA	958	U
36	DA	959	A
36	DA	961	C
36	DA	964	C
36	DA	965	C
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	991	C
36	DA	996	A
36	DA	1005	C
36	DA	1011	G
36	DA	1012	U
36	DA	1013	C
36	DA	1022	G
36	DA	1025	G
36	DA	1026	U
36	DA	1027	A
36	DA	1033	U
36	DA	1039	G
36	DA	1045	A
36	DA	1047	G
36	DA	1048	A
36	DA	1051	G
36	DA	1053	C
36	DA	1059	G
36	DA	1061	U
36	DA	1062	G

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Mol	Chain	Res	Type
36	DA	1065	U
36	DA	1067	A
36	DA	1068	G
36	DA	1069	A
36	DA	1070	A
36	DA	1071	G
36	DA	1072	C
36	DA	1073	A
36	DA	1079	C
36	DA	1087	G
36	DA	1088	A
36	DA	1091	G
36	DA	1098	A
36	DA	1103	A
36	DA	1107	G
36	DA	1108	U
36	DA	1111	A
36	DA	1112	G
36	DA	1114	G
36	DA	1129	A
36	DA	1130	U
36	DA	1135	C
36	DA	1136	G
36	DA	1142	U
36	DA	1143	A
36	DA	1152	C
36	DA	1154	G
36	DA	1155	A
36	DA	1157	G
36	DA	1167	U
36	DA	1170	G
36	DA	1171	G
36	DA	1174	A
36	DA	1175	U
36	DA	1176	G
36	DA	1177	A
36	DA	1178	C
36	DA	1194	A
36	DA	1195	G
36	DA	1204	A
36	DA	1205	U
36	DA	1210	A

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Mol	Chain	Res	Type
36	DA	1211	U
36	DA	1212	G
36	DA	1218	C
36	DA	1221	C
36	DA	1223	G
36	DA	1227	G
36	DA	1238	G
36	DA	1244	G
36	DA	1250	G
36	DA	1253	A
36	DA	1255	U
36	DA	1256	G
36	DA	1265	A
36	DA	1271	G
36	DA	1272	A
36	DA	1273	U
36	DA	1289	C
36	DA	1292	U
36	DA	1300	U
36	DA	1301	A
36	DA	1302	A
36	DA	1314	C
36	DA	1319	G
36	DA	1321	A
36	DA	1332	G
36	DA	1338	G
36	DA	1343	G
36	DA	1345	C
36	DA	1349	A
36	DA	1359	A
36	DA	1364	G
36	DA	1365	A
36	DA	1378	A
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	1398	C
36	DA	1404	C
36	DA	1407	C

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Mol	Chain	Res	Type
36	DA	1416	G
36	DA	1419	A
36	DA	1420	U
36	DA	1421	G
36	DA	1427	A
36	DA	1428	C
36	DA	1433	U
36	DA	1437	C
36	DA	1445	A
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	1471	A
36	DA	1475	G
36	DA	1478	G
36	DA	1482	G
36	DA	1485	G
36	DA	1488	G
36	DA	1490	A
36	DA	1493	C
36	DA	1494	A
36	DA	1495	A
36	DA	1497	U
36	DA	1499	C
36	DA	1502	C
36	DA	1505	C
36	DA	1509	C
36	DA	1509(A)	A
36	DA	1512	U
36	DA	1517	G
36	DA	1528(A)	A
36	DA	1541	G
36	DA	1542	A
36	DA	1544	A
36	DA	1554	A
36	DA	1558	A
36	DA	1559	G
36	DA	1567	A

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Mol	Chain	Res	Type
36	DA	1569	A
36	DA	1575	C
36	DA	1578	U
36	DA	1579	A
36	DA	1580	A
36	DA	1584	C
36	DA	1586	A
36	DA	1591	G
36	DA	1598	C
36	DA	1603	A
36	DA	1608	A
36	DA	1614	A
36	DA	1615	C
36	DA	1616	A
36	DA	1617	C
36	DA	1618	A
36	DA	1634	A
36	DA	1640	C
36	DA	1648	C
36	DA	1653	G
36	DA	1654	A
36	DA	1666	G
36	DA	1674	G
36	DA	1688	U
36	DA	1693	U
36	DA	1694	C
36	DA	1695	G
36	DA	1698	A
36	DA	1699	G
36	DA	1700	A
36	DA	1703	G
36	DA	1717	G
36	DA	1718	G
36	DA	1721	G
36	DA	1722	A
36	DA	1739	U
36	DA	1740	G
36	DA	1742	G
36	DA	1748	G
36	DA	1756	G
36	DA	1763	G
36	DA	1764	G

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Mol	Chain	Res	Type
36	DA	1773	A
36	DA	1776	G
36	DA	1780	A
36	DA	1781	C
36	DA	1782	C
36	DA	1791	A
36	DA	1799	G
36	DA	1800	C
36	DA	1801	G
36	DA	1816	G
36	DA	1817	G
36	DA	1820	U
36	DA	1821	A
36	DA	1835	G
36	DA	1838	C
36	DA	1839	G
36	DA	1847	A
36	DA	1848	A
36	DA	1858	G
36	DA	1865	G
36	DA	1866	C
36	DA	1878	G
36	DA	1881	C
36	DA	1882	C
36	DA	1885	A
36	DA	1888	G
36	DA	1900	A
36	DA	1902	C
36	DA	1903	G
36	DA	1906	G
36	DA	1912	A
36	DA	1913	A
36	DA	1929	G
36	DA	1930	G
36	DA	1936	A
36	DA	1938	A
36	DA	1944	U
36	DA	1948	G
36	DA	1955	U
36	DA	1956	U
36	DA	1962	C
36	DA	1963	U

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Mol	Chain	Res	Type
36	DA	1967	C
36	DA	1969	A
36	DA	1970	A
36	DA	1971	A
36	DA	1972	A
36	DA	1987	G
36	DA	1992	G
36	DA	1993	U
36	DA	1997	G
36	DA	2023	G
36	DA	2029	G
36	DA	2031	A
36	DA	2032	G
36	DA	2034	U
36	DA	2036	C
36	DA	2041	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	2069	G
36	DA	2093	G
36	DA	2096	U
36	DA	2100	G
36	DA	2102	U
36	DA	2103	C
36	DA	2104	G
36	DA	2107	C
36	DA	2108	C
36	DA	2109	U
36	DA	2111	C
36	DA	2116	G
36	DA	2117	A
36	DA	2118	U
36	DA	2127	G
36	DA	2128	C
36	DA	2129	C
36	DA	2131	G
36	DA	2132	U
36	DA	2133	G

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Mol	Chain	Res	Type
36	DA	2145	C
36	DA	2146	C
36	DA	2147	G
36	DA	2156	G
36	DA	2160	G
36	DA	2165	G
36	DA	2172	U
36	DA	2173	A
36	DA	2174	C
36	DA	2179	C
36	DA	2180	U
36	DA	2183	C
36	DA	2185	C
36	DA	2186	G
36	DA	2187	G
36	DA	2189	U
36	DA	2190	G
36	DA	2192	G
36	DA	2193	G
36	DA	2198	A
36	DA	2199	A
36	DA	2200	C
36	DA	2203	U
36	DA	2207	G
36	DA	2208	A
36	DA	2218	U
36	DA	2219	G
36	DA	2225	A
36	DA	2238	G
36	DA	2269	A
36	DA	2275	C
36	DA	2283	C
36	DA	2287	A
36	DA	2305	A
36	DA	2307	G
36	DA	2308	G
36	DA	2311	A
36	DA	2312	U
36	DA	2313	C
36	DA	2319	G
36	DA	2320	A
36	DA	2327	A

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Mol	Chain	Res	Type
36	DA	2336	A
36	DA	2342	C
36	DA	2343	C
36	DA	2345	G
36	DA	2347	C
36	DA	2350	C
36	DA	2361	A
36	DA	2383	G
36	DA	2385	C
36	DA	2392	A
36	DA	2399	G
36	DA	2402	C
36	DA	2405	G
36	DA	2406	U
36	DA	2423	U
36	DA	2424	C
36	DA	2425	A
36	DA	2427	C
36	DA	2429	G
36	DA	2430	A
36	DA	2434	A
36	DA	2439	A
36	DA	2441	C
36	DA	2448	A
36	DA	2465	C
36	DA	2469	A
36	DA	2470	G
36	DA	2476	A
36	DA	2477	C
36	DA	2478	A
36	DA	2482	G
36	DA	2494	G
36	DA	2497	A
36	DA	2502	G
36	DA	2505	G
36	DA	2509	G
36	DA	2518	A
36	DA	2521	C
36	DA	2524	G
36	DA	2529	G
36	DA	2543	G
36	DA	2554	U

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Mol	Chain	Res	Type
36	DA	2566	A
36	DA	2567	G
36	DA	2572	A
36	DA	2578	G
36	DA	2582	G
36	DA	2586	C
36	DA	2593	U
36	DA	2602	A
36	DA	2609	U
36	DA	2610	C
36	DA	2611	U
36	DA	2612	C
36	DA	2615	U
36	DA	2630	G
36	DA	2639	A
36	DA	2641	G
36	DA	2646	C
36	DA	2653	U
36	DA	2654	A
36	DA	2655	G
36	DA	2657	A
36	DA	2670	A
36	DA	2673	G
36	DA	2675	A
36	DA	2682	U
36	DA	2690	C
36	DA	2691	C
36	DA	2703	C
36	DA	2712	U
36	DA	2712(A)	A
36	DA	2713	A
36	DA	2720	U
36	DA	2726	U
36	DA	2732	G
36	DA	2733	A
36	DA	2750	A
36	DA	2751	G
36	DA	2752	C
36	DA	2757	A
36	DA	2759	G
36	DA	2761	G
36	DA	2762	G

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Mol	Chain	Res	Type
36	DA	2763	G
36	DA	2765	A
36	DA	2766	G
36	DA	2777	G
36	DA	2778	A
36	DA	2779	U
36	DA	2780	G
36	DA	2781	A
36	DA	2787	C
36	DA	2789	C
36	DA	2790	A
36	DA	2791	C
36	DA	2794	C
36	DA	2801	A
36	DA	2801(A)	A
36	DA	2802	G
36	DA	2803	C
36	DA	2808	U
36	DA	2811	G
36	DA	2813	A
36	DA	2817	G
36	DA	2818	G
36	DA	2820	A
36	DA	2821	A
36	DA	2833	G
36	DA	2834	G
36	DA	2835	A
36	DA	2849	U
36	DA	2872	G
36	DA	2879	C
36	DA	2880	C
36	DA	2883	A
36	DA	2893	G
37	DB	2	C
37	DB	8	U
37	DB	12	C
37	DB	13	A
37	DB	15	A
37	DB	16	G
37	DB	17	C
37	DB	19	G
37	DB	21	G

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Mol	Chain	Res	Type
37	DB	25	A
37	DB	26	A
37	DB	32	C
37	DB	35	U
37	DB	39	A
37	DB	40	U
37	DB	41	U
37	DB	42	C
37	DB	43	C
37	DB	45	A
37	DB	53	A
37	DB	57	A
37	DB	68	C
37	DB	73	A
37	DB	75	G
37	DB	81	G
37	DB	88	C
37	DB	101	G
37	DB	110	G
37	DB	113	G

All (234) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	13	U
1	AA	30	U
1	AA	47	C
1	AA	60	A
1	AA	64	G
1	AA	79	G
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	197	A
1	AA	202	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	344	A
1	AA	351	G
1	AA	388	G

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Mol	Chain	Res	Type
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C
1	AA	534	U
1	AA	547	A
1	AA	560	U
1	AA	575	G
1	AA	641	U
1	AA	687	A
1	AA	748	C
1	AA	792	A
1	AA	817	C
1	AA	858	G
1	AA	889	A
1	AA	960	U
1	AA	961	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	982	U
1	AA	992	U
1	AA	1049	U
1	AA	1050	G
1	AA	1053	G
1	AA	1101	A
1	AA	1145	C
1	AA	1157	A
1	AA	1200	C
1	AA	1239	A
1	AA	1280	A
1	AA	1285	A
1	AA	1305	G
1	AA	1363(A)	A
1	AA	1380	U
1	AA	1399	C
1	AA	1498	U
1	AA	1504	G
1	AA	1529	G
22	AW	7	A

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Mol	Chain	Res	Type
22	AW	44	G
36	BA	49	A
36	BA	71	A
36	BA	74	A
36	BA	83	G
36	BA	197	A
36	BA	199	A
36	BA	214	G
36	BA	221	A
36	BA	265	A
36	BA	331	A
36	BA	332	A
36	BA	363(F)	A
36	BA	387	U
36	BA	481	G
36	BA	587	C
36	BA	603	A
36	BA	614(A)	U
36	BA	614(C)	A
36	BA	752	A
36	BA	764	A
36	BA	790	C
36	BA	856	C
36	BA	1052	C
36	BA	1060	U
36	BA	1068	G
36	BA	1069	A
36	BA	1210	A
36	BA	1300	U
36	BA	1301	A
36	BA	1378	A
36	BA	1427	A
36	BA	1541	G
36	BA	1558	A
36	BA	1603	A
36	BA	1653	G
36	BA	1693	U
36	BA	1799	G
36	BA	1819	A
36	BA	1820	U
36	BA	1966	A
36	BA	1970	A

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Mol	Chain	Res	Type
36	BA	1992	G
36	BA	2033	A
36	BA	2110	G
36	BA	2126	A
36	BA	2131	G
36	BA	2179	C
36	BA	2282	G
36	BA	2391	G
36	BA	2422	A
36	BA	2481	G
36	BA	2610	C
36	BA	2689	U
36	BA	2756	U
36	BA	2762	G
37	BB	56	G
1	CA	13	U
1	CA	30	U
1	CA	47	C
1	CA	60	A
1	CA	64	G
1	CA	79	G
1	CA	109	A
1	CA	115	G
1	CA	119	A
1	CA	197	A
1	CA	202	U
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	274	A
1	CA	344	A
1	CA	351	G
1	CA	388	G
1	CA	412	A
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	495	A
1	CA	508	C
1	CA	547	A
1	CA	560	U
1	CA	575	G

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Mol	Chain	Res	Type
1	CA	641	U
1	CA	687	A
1	CA	748	C
1	CA	792	A
1	CA	817	C
1	CA	858	G
1	CA	889	A
1	CA	960	U
1	CA	961	U
1	CA	965	A
1	CA	968	A
1	CA	974	A
1	CA	982	U
1	CA	992	U
1	CA	1049	U
1	CA	1050	G
1	CA	1053	G
1	CA	1101	A
1	CA	1145	C
1	CA	1157	A
1	CA	1200	C
1	CA	1239	A
1	CA	1280	A
1	CA	1285	A
1	CA	1305	G
1	CA	1363(A)	A
1	CA	1380	U
1	CA	1399	C
1	CA	1498	U
1	CA	1504	G
1	CA	1507	A
1	CA	1528	U
22	CW	7	A
22	CW	44	G
36	DA	49	A
36	DA	71	A
36	DA	74	A
36	DA	83	G
36	DA	197	A
36	DA	199	A
36	DA	214	G
36	DA	221	A

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Mol	Chain	Res	Type
36	DA	265	A
36	DA	331	A
36	DA	332	A
36	DA	363(F)	A
36	DA	387	U
36	DA	481	G
36	DA	527	C
36	DA	587	C
36	DA	603	A
36	DA	614(A)	U
36	DA	614(C)	A
36	DA	752	A
36	DA	764	A
36	DA	790	C
36	DA	856	C
36	DA	1052	C
36	DA	1060	U
36	DA	1068	G
36	DA	1069	A
36	DA	1210	A
36	DA	1300	U
36	DA	1301	A
36	DA	1378	A
36	DA	1427	A
36	DA	1541	G
36	DA	1558	A
36	DA	1603	A
36	DA	1653	G
36	DA	1693	U
36	DA	1799	G
36	DA	1819	A
36	DA	1820	U
36	DA	1970	A
36	DA	1992	G
36	DA	2033	A
36	DA	2110	G
36	DA	2126	A
36	DA	2131	G
36	DA	2179	C
36	DA	2282	G
36	DA	2391	G
36	DA	2422	A

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Mol	Chain	Res	Type
36	DA	2481	G
36	DA	2610	C
36	DA	2689	U
36	DA	2756	U
36	DA	2762	G
37	DB	56	G

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

14 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	YG	AY	37	24	38,42,43	1.32	3 (7%)	45,62,65	2.09	15 (33%)
24	H2U	CY	17	24	18,21,22	0.88	0	19,30,33	1.62	3 (15%)
24	5MU	CY	54	24	19,22,23	0.25	0	27,32,35	0.38	0
24	7MG	CY	46	24	23,26,27	2.60	3 (13%)	27,39,42	1.69	3 (11%)
24	H2U	CY	20	24	18,21,22	0.85	0	19,30,33	1.60	3 (15%)
24	H2U	AY	17	24	18,21,22	0.87	0	19,30,33	1.63	3 (15%)
24	YG	CY	37	24	38,42,43	1.30	3 (7%)	45,62,65	2.09	15 (33%)
24	7MG	AY	46	24	23,26,27	2.54	3 (13%)	27,39,42	1.70	3 (11%)
24	PSU	CY	55	24	18,21,22	1.07	2 (11%)	21,30,33	2.10	6 (28%)
24	H2U	AY	20	24	18,21,22	0.86	0	19,30,33	1.58	3 (15%)
24	H2U	CY	16	24	18,21,22	0.90	1 (5%)	19,30,33	1.49	3 (15%)
24	PSU	AY	55	24	18,21,22	1.07	2 (11%)	21,30,33	2.06	6 (28%)
24	5MU	AY	54	24	19,22,23	0.25	0	27,32,35	0.39	0
24	H2U	AY	16	24	18,21,22	0.96	1 (5%)	19,30,33	1.48	3 (15%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
24	YG	AY	37	24	-	2/24/42/43	0/4/4/4
24	H2U	CY	17	24	-	5/7/38/39	0/2/2/2
24	5MU	CY	54	24	-	0/7/25/26	0/2/2/2
24	7MG	CY	46	24	-	0/7/37/38	0/3/3/3
24	H2U	CY	20	24	-	3/7/38/39	0/2/2/2
24	H2U	AY	17	24	-	5/7/38/39	0/2/2/2
24	YG	CY	37	24	-	2/24/42/43	0/4/4/4
24	7MG	AY	46	24	-	0/7/37/38	0/3/3/3
24	PSU	CY	55	24	-	0/7/25/26	0/2/2/2
24	H2U	AY	20	24	-	3/7/38/39	0/2/2/2
24	H2U	CY	16	24	-	2/7/38/39	0/2/2/2
24	PSU	AY	55	24	-	0/7/25/26	0/2/2/2
24	5MU	AY	54	24	-	0/7/25/26	0/2/2/2
24	H2U	AY	16	24	-	2/7/38/39	0/2/2/2

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	CY	46	7MG	C8-N9	-11.77	1.38	1.45
24	AY	46	7MG	C8-N9	-11.49	1.38	1.45
24	AY	37	YG	C13-C12	5.15	1.56	1.50
24	CY	37	YG	C13-C12	4.61	1.56	1.50
24	CY	46	7MG	C5-N7	3.09	1.39	1.35
24	AY	46	7MG	C5-N7	3.08	1.39	1.35
24	AY	16	H2U	C1'-N1	2.84	1.51	1.46
24	AY	55	PSU	C1'-C5	2.63	1.56	1.50
24	CY	55	PSU	C1'-C5	2.60	1.56	1.50
24	CY	37	YG	C11-N2	-2.57	1.32	1.38
24	CY	16	H2U	C1'-N1	2.42	1.51	1.46
24	CY	46	7MG	C8-N7	-2.36	1.30	1.42
24	AY	46	7MG	C8-N7	-2.34	1.31	1.42
24	AY	37	YG	C11-N2	-2.20	1.33	1.38
24	CY	37	YG	C5-N7	-2.11	1.34	1.39
24	AY	37	YG	C5-N7	-2.05	1.35	1.39
24	AY	55	PSU	C6-N1	2.04	1.39	1.36
24	CY	55	PSU	C6-N1	2.01	1.39	1.36

All (66) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	46	7MG	N9-C8-N7	6.88	113.11	103.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	CY	46	7MG	N9-C8-N7	6.83	113.05	103.37
24	CY	37	YG	C24-O23-C21	5.54	122.04	115.63
24	AY	37	YG	C24-O23-C21	5.28	121.74	115.63
24	AY	37	YG	C5-C4-N3	-5.10	119.86	123.99
24	CY	37	YG	C5-C4-N3	-5.07	119.88	123.99
24	AY	37	YG	O23-C21-N20	4.93	119.06	110.77
24	CY	55	PSU	N1-C2-N3	4.89	120.33	115.17
24	AY	55	PSU	N1-C2-N3	4.86	120.29	115.17
24	CY	37	YG	O23-C21-N20	4.77	118.80	110.77
24	AY	46	7MG	C4-C5-N7	4.55	110.75	105.38
24	CY	20	H2U	N3-C2-N1	4.55	121.22	116.65
24	CY	46	7MG	C4-C5-N7	4.52	110.72	105.38
24	AY	20	H2U	N3-C2-N1	4.51	121.19	116.65
24	CY	17	H2U	N3-C2-N1	4.42	121.09	116.65
24	AY	17	H2U	N3-C2-N1	4.38	121.05	116.65
24	CY	16	H2U	N3-C2-N1	4.14	120.81	116.65
24	AY	37	YG	N1-C2-N2	-4.06	108.21	114.03
24	CY	55	PSU	C4-N3-C2	-4.05	120.78	126.37
24	CY	37	YG	N1-C2-N2	-4.01	108.29	114.03
24	AY	55	PSU	C4-N3-C2	-3.98	120.89	126.37
24	CY	20	H2U	C5-C4-N3	3.95	120.89	116.69
24	AY	16	H2U	N3-C2-N1	3.92	120.59	116.65
24	AY	20	H2U	C5-C4-N3	3.91	120.84	116.69
24	AY	17	H2U	C5-C4-N3	3.74	120.67	116.69
24	CY	17	H2U	C5-C4-N3	3.73	120.66	116.69
24	CY	55	PSU	O3'-C3'-C4'	3.70	121.70	111.08
24	AY	55	PSU	O3'-C3'-C4'	3.62	121.47	111.08
24	CY	55	PSU	O3'-C3'-C2'	3.50	123.05	111.82
24	AY	55	PSU	O3'-C3'-C2'	3.49	123.00	111.82
24	AY	37	YG	N9-C4-N3	3.45	135.04	129.45
24	CY	37	YG	O18-C16-C15	3.45	120.27	111.49
24	AY	37	YG	O18-C16-C15	3.44	120.24	111.49
24	AY	16	H2U	C5-C4-N3	3.42	120.33	116.69
24	CY	37	YG	N9-C4-N3	3.25	134.71	129.45
24	CY	16	H2U	C5-C4-N3	3.15	120.04	116.69
24	AY	37	YG	O22-C21-N20	-2.96	120.01	124.86
24	AY	37	YG	C8-N7-C5	2.94	109.50	104.26
24	CY	37	YG	C8-N7-C5	2.92	109.47	104.26
24	CY	37	YG	O22-C21-N20	-2.87	120.16	124.86
24	CY	55	PSU	O2-C2-N1	-2.73	119.97	122.79
24	AY	55	PSU	O2-C2-N1	-2.55	120.16	122.79
24	AY	37	YG	O23-C21-O22	-2.53	120.93	124.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	CY	37	YG	C2-N1-C12	-2.47	105.49	109.94
24	CY	37	YG	C2-N2-C11	2.46	110.96	106.31
24	CY	37	YG	O23-C21-O22	-2.46	121.04	124.62
24	AY	37	YG	C2-N2-C11	2.44	110.92	106.31
24	CY	37	YG	C19-O18-C16	2.44	121.45	115.92
24	CY	16	H2U	O2-C2-N1	-2.41	120.20	123.10
24	AY	37	YG	C19-O18-C16	2.35	121.25	115.92
24	CY	37	YG	N3-C2-N2	2.35	129.86	126.62
24	AY	37	YG	C2-N1-C12	-2.28	105.83	109.94
24	AY	37	YG	C10-C11-N2	2.27	123.88	119.32
24	AY	16	H2U	O2-C2-N1	-2.25	120.40	123.10
24	AY	37	YG	N3-C2-N2	2.24	129.71	126.62
24	CY	55	PSU	C6-C5-C4	-2.24	116.66	118.17
24	CY	20	H2U	O2-C2-N1	-2.24	120.41	123.10
24	AY	46	7MG	C6-C5-C4	-2.20	118.54	122.40
24	CY	37	YG	C10-C11-N2	2.17	123.66	119.32
24	CY	46	7MG	C6-C5-C4	-2.16	118.60	122.40
24	CY	17	H2U	O2-C2-N1	-2.16	120.50	123.10
24	AY	17	H2U	O2-C2-N1	-2.15	120.52	123.10
24	AY	20	H2U	O2-C2-N1	-2.11	120.57	123.10
24	AY	37	YG	O18-C16-O17	-2.03	119.89	123.85
24	AY	55	PSU	C6-C5-C4	-2.02	116.81	118.17
24	CY	37	YG	O18-C16-O17	-2.01	119.94	123.85

There are no chirality outliers.

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	AY	17	H2U	O4'-C1'-N1-C2
24	AY	17	H2U	O4'-C1'-N1-C6
24	AY	20	H2U	O4'-C4'-C5'-O5'
24	AY	20	H2U	C3'-C4'-C5'-O5'
24	CY	17	H2U	O4'-C1'-N1-C2
24	CY	17	H2U	O4'-C1'-N1-C6
24	CY	20	H2U	O4'-C4'-C5'-O5'
24	CY	20	H2U	C3'-C4'-C5'-O5'
24	AY	20	H2U	C4'-C5'-O5'-P
24	CY	20	H2U	C4'-C5'-O5'-P
24	AY	16	H2U	O4'-C4'-C5'-O5'
24	CY	16	H2U	O4'-C4'-C5'-O5'
24	AY	16	H2U	C3'-C4'-C5'-O5'
24	CY	16	H2U	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
24	AY	17	H2U	O4'-C4'-C5'-O5'
24	CY	17	H2U	O4'-C4'-C5'-O5'
24	AY	37	YG	N20-C15-C16-O17
24	CY	37	YG	N20-C15-C16-O17
24	AY	37	YG	N20-C15-C16-O18
24	CY	37	YG	N20-C15-C16-O18
24	AY	17	H2U	C4'-C5'-O5'-P
24	CY	17	H2U	C4'-C5'-O5'-P
24	AY	17	H2U	C3'-C4'-C5'-O5'
24	CY	17	H2U	C3'-C4'-C5'-O5'

There are no ring outliers.

12 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	AY	37	YG	7	0
24	CY	17	H2U	1	0
24	CY	54	5MU	5	0
24	CY	20	H2U	2	0
24	AY	17	H2U	1	0
24	CY	37	YG	4	0
24	CY	55	PSU	7	0
24	AY	20	H2U	2	0
24	CY	16	H2U	3	0
24	AY	55	PSU	6	0
24	AY	54	5MU	4	0
24	AY	16	H2U	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 10 are monoatomic - leaving 6 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	$\# Z > 2$
63	KIR	CZ	502	-	56,59,59	3.69	21 (37%)	60,84,84	1.67	11 (18%)
62	GDP	AZ	501	-	29,30,30	1.08	3 (10%)	45,47,47	1.69	8 (17%)
59	PAR	AA	1601	-	44,45,45	1.38	4 (9%)	63,67,67	1.38	7 (11%)
62	GDP	CZ	501	-	29,30,30	1.08	2 (6%)	45,47,47	1.80	10 (22%)
63	KIR	AZ	502	-	56,59,59	3.64	21 (37%)	60,84,84	1.65	10 (16%)
59	PAR	CA	1601	-	44,45,45	1.36	5 (11%)	63,67,67	1.34	8 (12%)

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
63	KIR	CZ	502	-	-	7/54/98/98	0/3/3/3
62	GDP	AZ	501	-	-	2/16/32/32	0/3/3/3
59	PAR	AA	1601	-	-	8/18/94/94	0/4/4/4
62	GDP	CZ	501	-	-	3/16/32/32	0/3/3/3
63	KIR	AZ	502	-	-	7/54/98/98	0/3/3/3
59	PAR	CA	1601	-	-	5/18/94/94	0/4/4/4

All (56) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	AZ	502	KIR	O18-C17	-14.90	1.22	1.44
63	CZ	502	KIR	O18-C17	-14.79	1.22	1.44
63	CZ	502	KIR	O30-C30	-12.48	1.18	1.42
63	AZ	502	KIR	O30-C30	-12.39	1.18	1.42
63	AZ	502	KIR	O34-C33	-9.42	1.29	1.44
63	CZ	502	KIR	O34-C33	-9.32	1.29	1.44
63	CZ	502	KIR	C22-C21	6.19	1.39	1.33
63	CZ	502	KIR	C45-C28	5.97	1.63	1.53
63	AZ	502	KIR	C22-C21	5.71	1.38	1.33
63	AZ	502	KIR	C45-C28	5.67	1.62	1.53
63	CZ	502	KIR	C27-N26	4.47	1.44	1.33
63	CZ	502	KIR	C8-C7	4.36	1.57	1.48
63	AZ	502	KIR	C29-C28	4.36	1.63	1.54
59	AA	1601	PAR	C34-C24	4.23	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	AZ	502	KIR	C27-N26	4.11	1.43	1.33
63	CZ	502	KIR	O29-C29	4.09	1.48	1.40
63	CZ	502	KIR	C19-C17	4.09	1.64	1.54
63	AZ	502	KIR	C8-C7	4.01	1.57	1.48
63	AZ	502	KIR	O29-C29	3.98	1.47	1.40
63	CZ	502	KIR	C42-C19	3.82	1.61	1.53
63	AZ	502	KIR	C19-C17	3.79	1.63	1.54
63	AZ	502	KIR	C3-C4	3.74	1.48	1.41
63	CZ	502	KIR	C29-C28	3.71	1.62	1.54
63	CZ	502	KIR	C3-C4	3.70	1.48	1.41
63	CZ	502	KIR	O34-C29	3.65	1.49	1.43
63	AZ	502	KIR	C42-C19	3.64	1.60	1.53
63	AZ	502	KIR	O34-C29	3.64	1.49	1.43
63	CZ	502	KIR	C32-C31	3.55	1.59	1.54
59	AA	1601	PAR	O54-C14	3.32	1.50	1.41
59	CA	1601	PAR	C31-C21	3.20	1.57	1.53
59	CA	1601	PAR	C52-C42	3.00	1.58	1.52
59	CA	1601	PAR	O54-C14	2.87	1.49	1.41
63	AZ	502	KIR	C32-C31	2.81	1.58	1.54
63	CZ	502	KIR	C31-C30	2.73	1.58	1.54
63	AZ	502	KIR	C9-C8	2.67	1.41	1.34
63	CZ	502	KIR	C9-C8	2.55	1.41	1.34
62	AZ	501	GDP	C5-N7	-2.51	1.34	1.39
59	AA	1601	PAR	C11-C21	2.42	1.57	1.52
63	CZ	502	KIR	C32-C33	2.38	1.58	1.55
63	CZ	502	KIR	C44-C21	2.38	1.55	1.50
63	CZ	502	KIR	C20-C21	2.36	1.55	1.51
63	AZ	502	KIR	C16-C17	2.35	1.58	1.53
62	CZ	501	GDP	PA-O3A	2.30	1.62	1.59
62	CZ	501	GDP	C5-N7	-2.29	1.34	1.39
59	CA	1601	PAR	C34-C24	2.29	1.56	1.53
63	CZ	502	KIR	C6-N1	2.24	1.39	1.36
62	AZ	501	GDP	PA-O3A	2.23	1.61	1.59
63	CZ	502	KIR	C16-C17	2.22	1.57	1.53
63	AZ	502	KIR	C31-C30	2.18	1.57	1.54
63	AZ	502	KIR	C6-N1	2.13	1.39	1.36
63	AZ	502	KIR	C37-C38	2.13	1.39	1.33
63	AZ	502	KIR	C20-C21	2.13	1.55	1.51
63	AZ	502	KIR	C32-C33	2.12	1.58	1.55
62	AZ	501	GDP	C8-N9	-2.07	1.32	1.37
59	AA	1601	PAR	C52-C42	2.06	1.56	1.52
59	CA	1601	PAR	C14-C24	2.00	1.56	1.52

All (54) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	AZ	501	GDP	C2-N3-C4	5.23	121.30	112.30
62	CZ	501	GDP	C2-N3-C4	5.16	121.19	112.30
62	CZ	501	GDP	C5-C4-N3	-5.01	120.42	128.39
59	AA	1601	PAR	O33-C14-C24	4.74	115.83	108.08
62	AZ	501	GDP	C5-C4-N3	-4.62	121.04	128.39
63	CZ	502	KIR	C48-C32-C47	-4.62	101.40	107.70
63	CZ	502	KIR	O29-C29-O34	-4.55	102.64	110.15
63	AZ	502	KIR	O29-C29-O34	-4.53	102.69	110.15
59	AA	1601	PAR	C14-O54-C54	4.48	122.47	113.72
59	CA	1601	PAR	O33-C14-C24	4.47	115.39	108.08
63	AZ	502	KIR	C48-C32-C47	-4.42	101.68	107.70
63	CZ	502	KIR	C11-C10-C9	-4.09	115.15	123.52
63	AZ	502	KIR	C11-C10-C9	-4.05	115.22	123.52
59	CA	1601	PAR	C14-O54-C54	3.77	121.08	113.72
59	AA	1601	PAR	O52-C13-O43	-3.74	107.55	111.37
62	CZ	501	GDP	C4-C5-N7	-3.62	104.93	110.67
63	AZ	502	KIR	O34-C29-C28	3.56	113.73	104.55
59	CA	1601	PAR	O54-C54-C64	3.50	112.79	106.07
63	CZ	502	KIR	O34-C29-C28	3.47	113.49	104.55
62	CZ	501	GDP	C2-N1-C6	-3.35	119.04	125.11
59	AA	1601	PAR	O54-C54-C64	3.28	112.37	106.07
59	CA	1601	PAR	O52-C13-O43	-3.18	108.12	111.37
59	AA	1601	PAR	O11-C11-C21	3.12	113.18	108.08
63	AZ	502	KIR	O18-C17-C16	3.08	109.94	104.21
63	CZ	502	KIR	O18-C17-C16	2.91	109.62	104.21
62	CZ	501	GDP	C8-N7-C5	2.87	109.38	104.26
62	AZ	501	GDP	C4-C5-N7	-2.87	106.12	110.67
63	CZ	502	KIR	O20-C20-C21	-2.78	106.67	111.52
63	AZ	502	KIR	O20-C20-C21	-2.76	106.70	111.52
63	CZ	502	KIR	C3-C2-N1	2.72	119.72	114.65
63	AZ	502	KIR	C3-C2-N1	2.72	119.71	114.65
63	AZ	502	KIR	C29-C30-C31	-2.64	107.25	110.80
63	CZ	502	KIR	C29-C30-C31	-2.57	107.34	110.80
59	CA	1601	PAR	C11-O51-C51	2.56	118.71	113.72
62	AZ	501	GDP	C2-N1-C6	-2.55	120.48	125.11
59	CA	1601	PAR	C22-C32-C42	2.48	115.57	109.50
59	AA	1601	PAR	C11-O51-C51	2.47	118.54	113.72
59	CA	1601	PAR	O11-C11-C21	2.46	112.11	108.08
62	AZ	501	GDP	C8-N7-C5	2.45	108.62	104.26
59	AA	1601	PAR	C22-C32-C42	2.42	115.44	109.50
62	CZ	501	GDP	O6-C6-N1	-2.40	115.60	120.11
62	AZ	501	GDP	O6-C6-N1	-2.34	115.71	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	AZ	501	GDP	O4'-C1'-C2'	-2.34	101.60	106.62
63	CZ	502	KIR	C23-C22-C21	-2.27	124.08	127.37
63	CZ	502	KIR	C48-C32-C31	2.20	113.28	109.28
62	AZ	501	GDP	N9-C4-N3	2.17	130.30	125.95
62	CZ	501	GDP	C6-C5-N7	2.15	134.21	130.29
62	CZ	501	GDP	O4'-C1'-C2'	-2.14	102.04	106.62
59	CA	1601	PAR	C22-C12-C62	-2.10	106.93	110.08
63	AZ	502	KIR	C48-C32-C31	2.09	113.08	109.28
62	CZ	501	GDP	N9-C8-N7	-2.08	109.54	113.40
62	CZ	501	GDP	C5-C6-N1	2.07	118.52	113.25
63	AZ	502	KIR	C23-C22-C21	-2.02	124.44	127.37
63	CZ	502	KIR	C48-C32-C33	2.01	113.45	109.27

There are no chirality outliers.

All (32) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
59	AA	1601	PAR	C44-C54-C64-N64
59	AA	1601	PAR	O54-C54-C64-N64
62	AZ	501	GDP	PA-O3A-PB-O2B
62	AZ	501	GDP	PA-O3A-PB-O3B
62	CZ	501	GDP	PA-O3A-PB-O2B
62	CZ	501	GDP	PA-O3A-PB-O3B
63	AZ	502	KIR	C4-C3-C7-C8
63	AZ	502	KIR	O18-C17-C19-C42
63	CZ	502	KIR	C4-C3-C7-C8
59	CA	1601	PAR	O43-C43-C53-O53
63	AZ	502	KIR	C11-C10-C9-C8
63	CZ	502	KIR	C11-C10-C9-C8
59	CA	1601	PAR	C33-C43-C53-O53
63	AZ	502	KIR	C36-C37-C38-C39
63	CZ	502	KIR	C36-C37-C38-C39
59	AA	1601	PAR	C33-C43-C53-O53
63	AZ	502	KIR	C19-C20-O20-C43
63	CZ	502	KIR	C19-C20-O20-C43
59	AA	1601	PAR	O43-C13-O52-C52
63	CZ	502	KIR	O18-C17-C19-C42
59	AA	1601	PAR	O43-C43-C53-O53
63	AZ	502	KIR	C16-C17-C19-C42
62	CZ	501	GDP	C5'-O5'-PA-O1A
59	CA	1601	PAR	C43-C33-O33-C14
59	AA	1601	PAR	C23-C13-O52-C52

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Mol	Chain	Res	Type	Atoms
59	CA	1601	PAR	O51-C11-O11-C42
63	AZ	502	KIR	C21-C20-O20-C43
63	CZ	502	KIR	C21-C20-O20-C43
59	AA	1601	PAR	C52-C42-O11-C11
59	AA	1601	PAR	C43-C33-O33-C14
59	CA	1601	PAR	C23-C33-O33-C14
63	CZ	502	KIR	C16-C17-C19-C42

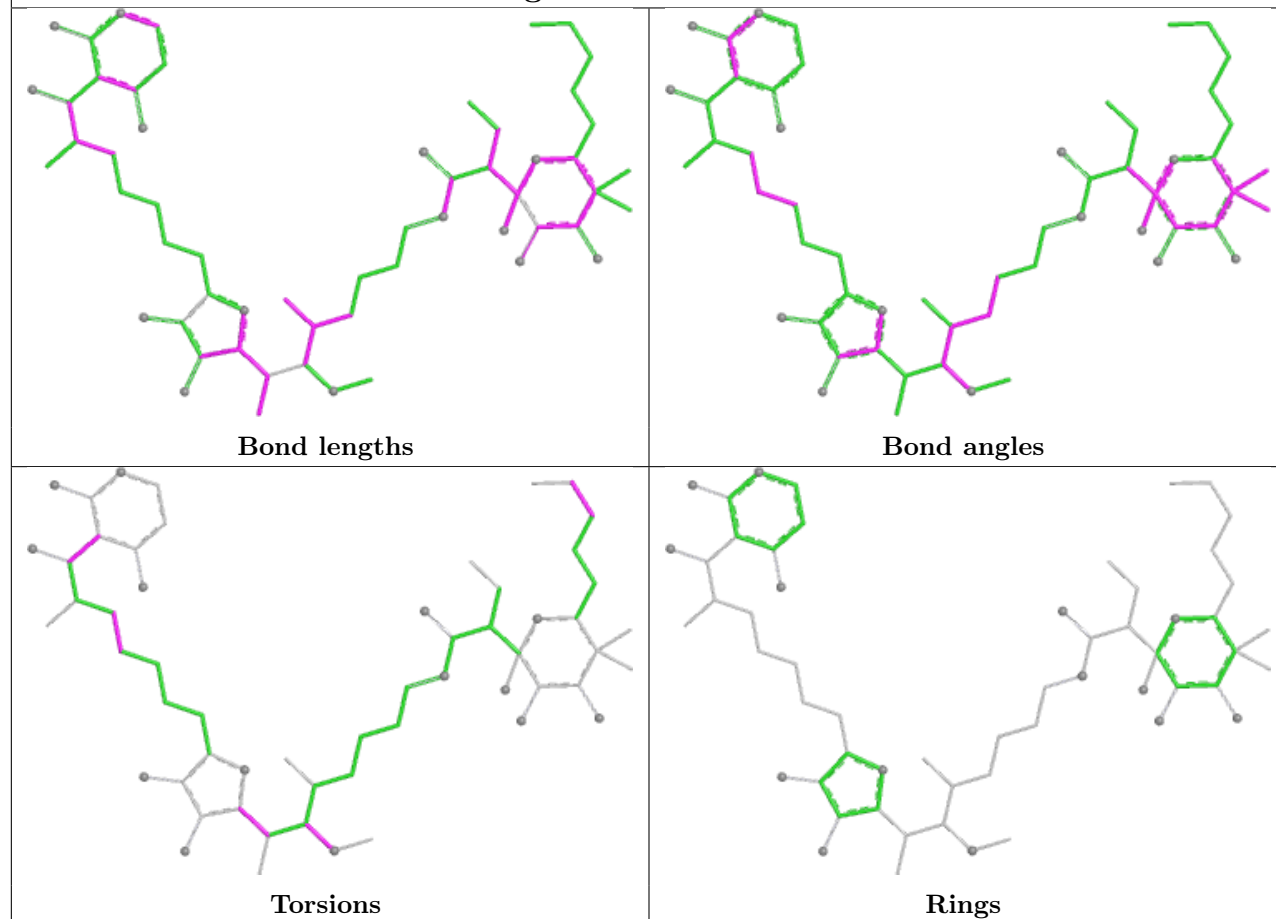
There are no ring outliers.

6 monomers are involved in 49 short contacts:

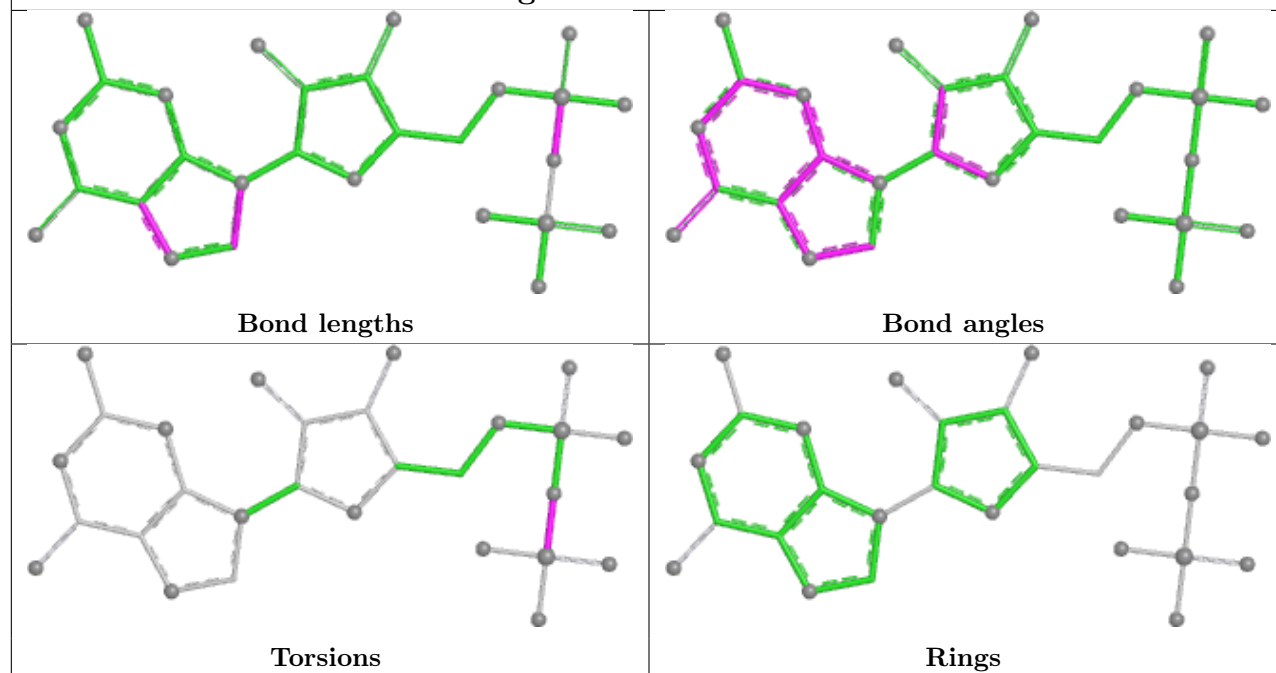
Mol	Chain	Res	Type	Clashes	Symm-Clashes
63	CZ	502	KIR	8	0
62	AZ	501	GDP	15	0
59	AA	1601	PAR	4	0
62	CZ	501	GDP	15	0
63	AZ	502	KIR	4	0
59	CA	1601	PAR	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

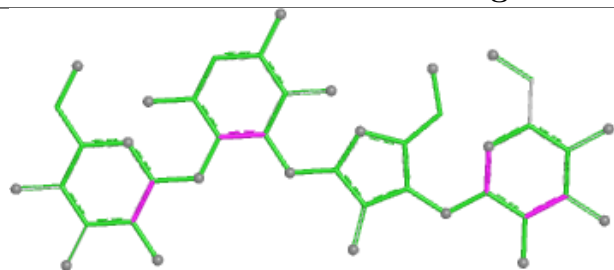
Ligand KIR CZ 502



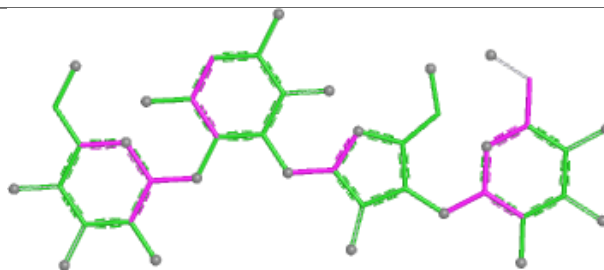
Ligand GDP AZ 501



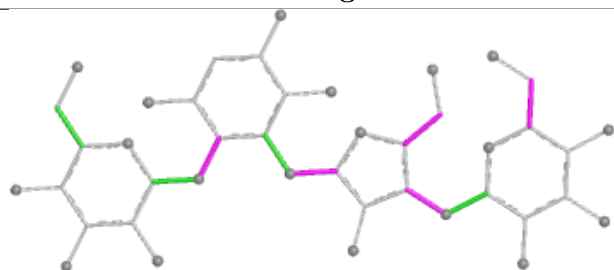
Ligand PAR AA 1601



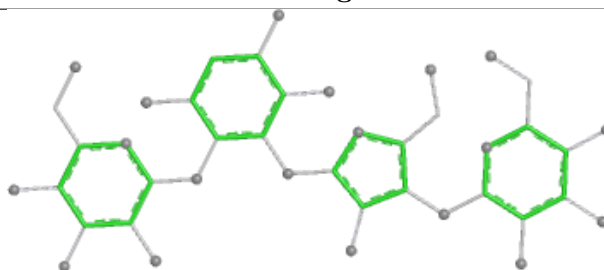
Bond lengths



Bond angles

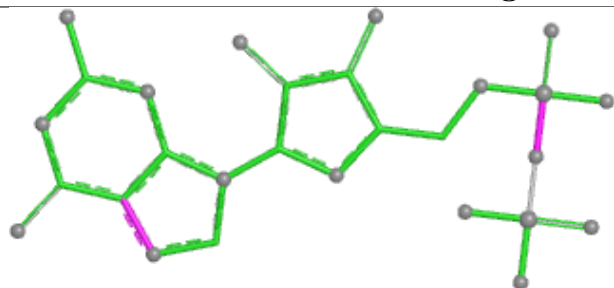


Torsions

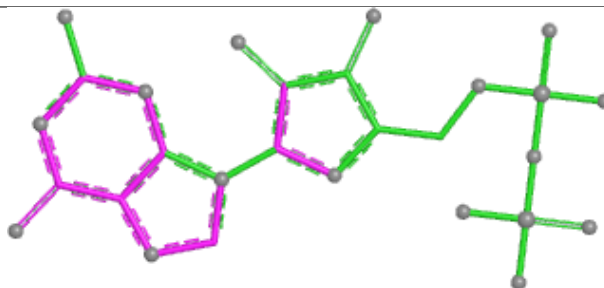


Rings

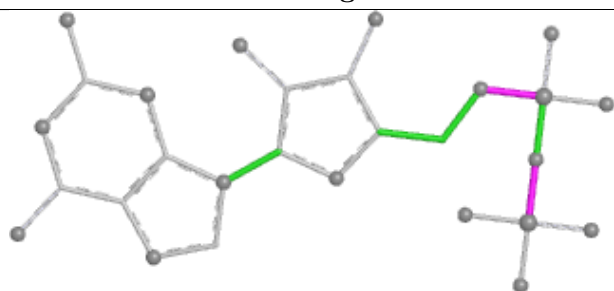
Ligand GDP CZ 501



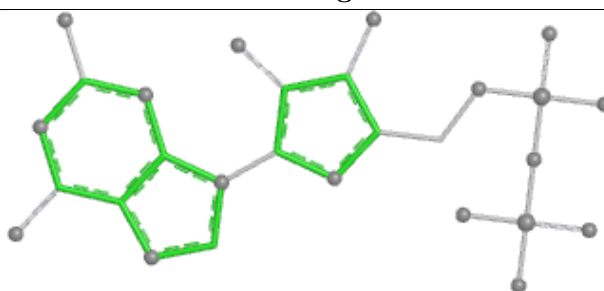
Bond lengths



Bond angles

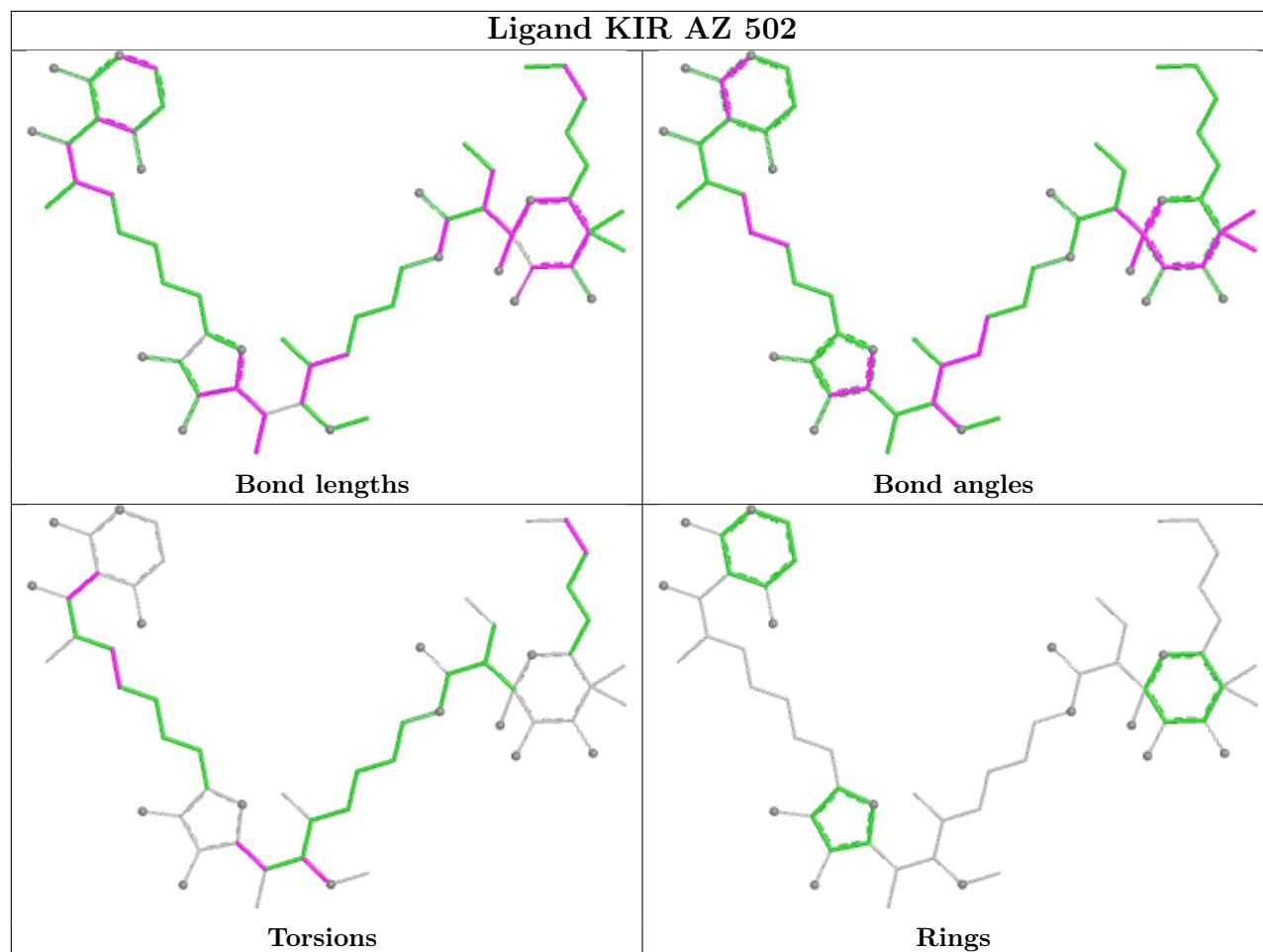


Torsions

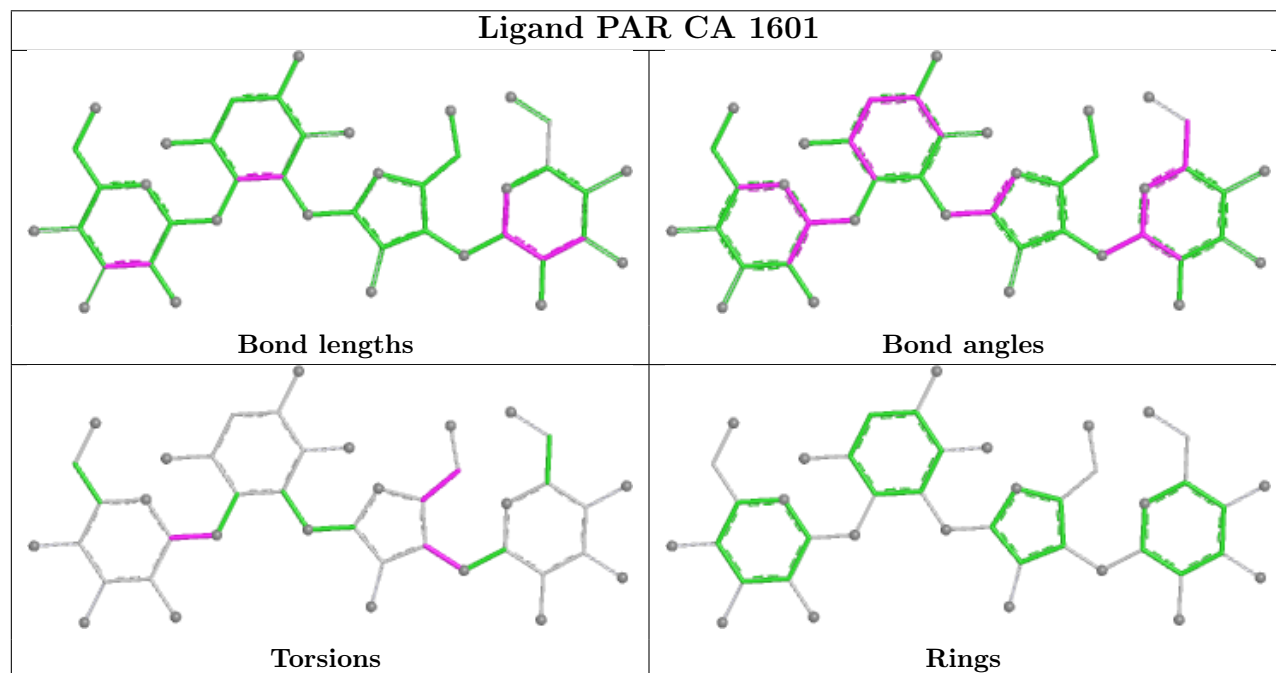


Rings

Ligand KIR AZ 502



Ligand PAR CA 1601



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
30	D4	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D4	47:GLN	C	48:ARG	N	1.19

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%)	0.47	67 (4%) 38 21	29, 82, 163, 200	0
1	CA	1504/1522 (98%)	0.44	45 (2%) 52 30	28, 83, 163, 200	0
2	AB	235/256 (91%)	0.29	0 100 100	63, 102, 151, 161	0
2	CB	235/256 (91%)	0.24	3 (1%) 75 48	63, 102, 151, 162	0
3	AC	207/239 (86%)	0.17	1 (0%) 87 66	54, 91, 111, 117	0
3	CC	207/239 (86%)	0.11	2 (0%) 79 54	59, 91, 111, 117	0
4	AD	208/209 (99%)	0.29	7 (3%) 48 27	60, 91, 116, 122	0
4	CD	208/209 (99%)	0.21	5 (2%) 59 34	61, 92, 117, 123	0
5	AE	151/162 (93%)	0.00	1 (0%) 84 61	44, 72, 90, 108	0
5	CE	151/162 (93%)	0.08	3 (1%) 65 38	43, 73, 91, 109	0
6	AF	101/101 (100%)	0.36	3 (2%) 52 30	91, 102, 110, 118	0
6	CF	101/101 (100%)	0.27	2 (1%) 65 38	92, 103, 111, 118	0
7	AG	155/156 (99%)	0.33	10 (6%) 25 16	79, 104, 134, 141	0
7	CG	155/156 (99%)	0.17	3 (1%) 66 39	81, 104, 134, 141	0
8	AH	138/138 (100%)	0.29	3 (2%) 62 36	62, 80, 97, 116	0
8	CH	138/138 (100%)	0.21	3 (2%) 62 36	61, 82, 97, 115	0
9	AI	127/128 (99%)	0.96	13 (10%) 12 10	73, 126, 153, 158	0
9	CI	127/128 (99%)	0.57	6 (4%) 36 20	74, 126, 154, 159	0
10	AJ	99/105 (94%)	0.93	16 (16%) 4 5	79, 121, 149, 154	0
10	CJ	99/105 (94%)	0.92	12 (12%) 8 7	80, 121, 148, 153	0
11	AK	119/129 (92%)	0.40	3 (2%) 58 34	63, 84, 125, 150	0
11	CK	119/129 (92%)	0.30	2 (1%) 69 41	65, 85, 126, 151	0
12	AL	125/135 (92%)	0.25	3 (2%) 59 34	47, 70, 100, 125	0
12	CL	125/135 (92%)	0.36	2 (1%) 70 43	52, 71, 101, 125	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	0.76	14 (11%) 10 8	79, 119, 143, 159	0
13	CM	125/126 (99%)	0.51	11 (8%) 15 11	80, 118, 143, 159	0
14	AN	60/61 (98%)	0.36	4 (6%) 24 15	60, 77, 96, 101	0
14	CN	60/61 (98%)	0.32	2 (3%) 49 28	61, 77, 95, 103	0
15	AO	88/89 (98%)	0.43	2 (2%) 61 35	69, 92, 109, 112	0
15	CO	88/89 (98%)	0.26	2 (2%) 61 35	72, 91, 109, 112	0
16	AP	84/88 (95%)	0.50	4 (4%) 35 20	76, 89, 119, 137	0
16	CP	84/88 (95%)	0.27	0 100 100	74, 89, 118, 137	0
17	AQ	100/105 (95%)	0.28	1 (1%) 79 54	65, 92, 115, 121	0
17	CQ	100/105 (95%)	0.38	3 (3%) 52 30	67, 92, 115, 121	0
18	AR	70/88 (79%)	0.04	0 100 100	55, 86, 114, 121	0
18	CR	70/88 (79%)	-0.02	0 100 100	57, 87, 115, 121	0
19	AS	79/93 (84%)	0.70	8 (10%) 12 10	82, 120, 143, 146	0
19	CS	79/93 (84%)	0.53	3 (3%) 44 25	83, 120, 144, 146	0
20	AT	99/106 (93%)	0.59	10 (10%) 12 10	94, 109, 129, 132	0
20	CT	99/106 (93%)	0.40	5 (5%) 33 19	93, 109, 129, 132	0
21	AU	25/27 (92%)	1.48	6 (24%) 2 2	104, 116, 137, 139	0
21	CU	25/27 (92%)	1.52	6 (24%) 2 2	104, 116, 136, 138	0
22	AV	76/76 (100%)	0.67	3 (3%) 43 24	54, 120, 170, 179	0
22	AW	76/76 (100%)	0.89	5 (6%) 24 15	82, 147, 186, 199	0
22	CV	76/76 (100%)	0.61	1 (1%) 75 48	54, 121, 170, 179	0
22	CW	76/76 (100%)	1.11	10 (13%) 7 6	84, 148, 185, 199	0
23	AX	13/27 (48%)	1.18	5 (38%) 1 1	45, 63, 136, 154	0
23	CX	13/27 (48%)	1.26	5 (38%) 1 1	47, 62, 136, 154	0
24	AY	70/77 (90%)	0.88	6 (8%) 16 12	74, 155, 194, 200	0
24	CY	70/77 (90%)	0.74	2 (2%) 53 30	76, 156, 194, 200	0
25	AZ	374/406 (92%)	0.35	8 (2%) 63 37	97, 139, 158, 177	0
25	CZ	374/406 (92%)	0.44	12 (3%) 50 29	98, 139, 158, 176	0
26	B0	84/85 (98%)	0.79	6 (7%) 22 14	104, 116, 128, 137	0
26	D0	84/85 (98%)	0.99	14 (16%) 4 5	104, 116, 129, 137	0
27	B1	94/98 (95%)	0.18	3 (3%) 50 29	41, 71, 107, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D1	94/98 (95%)	0.32	1 (1%) 78 52	63, 85, 115, 122	0
28	B2	71/72 (98%)	0.17	2 (2%) 55 31	84, 115, 128, 130	0
28	D2	71/72 (98%)	0.29	2 (2%) 55 31	104, 125, 144, 163	0
29	B3	60/60 (100%)	0.98	6 (10%) 12 10	106, 122, 132, 148	0
29	D3	60/60 (100%)	0.73	4 (6%) 24 15	107, 122, 132, 148	0
30	B4	45/71 (63%)	0.99	9 (20%) 3 3	107, 169, 196, 198	0
30	D4	45/71 (63%)	0.78	5 (11%) 10 8	107, 170, 195, 197	0
31	B5	59/60 (98%)	0.99	8 (13%) 7 6	89, 116, 175, 187	0
31	D5	59/60 (98%)	0.93	6 (10%) 12 10	90, 115, 175, 186	0
32	B6	50/54 (92%)	0.96	8 (16%) 5 5	78, 119, 146, 152	0
32	D6	50/54 (92%)	0.76	6 (12%) 9 7	79, 119, 147, 152	0
33	B7	49/49 (100%)	0.46	2 (4%) 41 23	59, 77, 144, 152	0
33	D7	49/49 (100%)	0.49	1 (2%) 65 38	60, 78, 145, 152	0
34	B8	64/65 (98%)	1.37	15 (23%) 2 2	80, 104, 124, 138	0
34	D8	64/65 (98%)	1.68	15 (23%) 2 2	83, 104, 125, 138	0
35	B9	37/37 (100%)	0.85	5 (13%) 7 6	104, 117, 124, 128	0
35	D9	37/37 (100%)	1.19	6 (16%) 4 5	103, 118, 125, 126	0
36	BA	2901/2915 (99%)	0.76	191 (6%) 24 15	31, 100, 192, 200	0
36	DA	2901/2915 (99%)	0.74	181 (6%) 26 16	31, 101, 192, 200	0
37	BB	119/122 (97%)	1.13	20 (16%) 4 5	103, 142, 169, 175	0
37	DB	119/122 (97%)	1.00	12 (10%) 12 10	102, 142, 168, 174	0
38	BC	228/229 (99%)	0.43	9 (3%) 43 24	92, 122, 168, 178	0
38	DC	228/229 (99%)	0.41	8 (3%) 47 27	92, 122, 167, 179	0
39	BD	275/276 (99%)	0.24	5 (1%) 67 40	30, 67, 96, 110	0
39	DD	275/276 (99%)	0.29	5 (1%) 67 40	38, 68, 96, 109	0
40	BE	205/206 (99%)	0.82	19 (9%) 14 10	67, 106, 143, 154	0
40	DE	205/206 (99%)	0.78	22 (10%) 11 9	67, 106, 143, 153	0
41	BF	208/210 (99%)	0.64	14 (6%) 24 15	61, 123, 160, 167	0
41	DF	208/210 (99%)	0.65	17 (8%) 17 12	62, 123, 160, 166	0
42	BG	181/182 (99%)	0.29	3 (1%) 69 41	103, 128, 146, 163	0
42	DG	181/182 (99%)	0.49	11 (6%) 27 16	111, 133, 151, 159	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BH	160/180 (88%)	0.73	12 (7%) 20 14	131, 155, 174, 176	0
43	DH	160/180 (88%)	0.80	12 (7%) 20 14	131, 155, 174, 176	0
44	BJ	0/173	-	-	-	-
44	DJ	0/173	-	-	-	-
45	BK	0/147	-	-	-	-
45	DK	0/147	-	-	-	-
46	BN	139/140 (99%)	0.72	9 (6%) 25 16	103, 123, 148, 155	0
46	DN	139/140 (99%)	0.88	18 (12%) 7 7	103, 123, 148, 155	0
47	BO	122/122 (100%)	0.16	0 100 100	60, 80, 96, 104	0
47	DO	122/122 (100%)	0.23	1 (0%) 82 58	61, 80, 96, 106	0
48	BP	146/150 (97%)	0.98	21 (14%) 6 6	71, 113, 133, 140	0
48	DP	146/150 (97%)	0.79	15 (10%) 12 10	70, 114, 133, 139	0
49	BQ	141/141 (100%)	0.59	7 (4%) 34 19	73, 106, 130, 159	0
49	DQ	141/141 (100%)	0.60	7 (4%) 34 19	73, 105, 129, 159	0
50	BR	117/118 (99%)	0.65	8 (6%) 23 15	81, 105, 123, 143	0
50	DR	117/118 (99%)	0.63	9 (7%) 19 13	82, 105, 124, 143	0
51	BS	99/112 (88%)	0.84	9 (9%) 15 11	96, 133, 155, 162	0
51	DS	99/112 (88%)	0.90	14 (14%) 6 6	97, 133, 156, 162	0
52	BT	138/146 (94%)	0.50	5 (3%) 46 26	72, 112, 166, 181	0
52	DT	138/146 (94%)	0.49	4 (2%) 53 30	73, 111, 166, 181	0
53	BU	117/118 (99%)	0.80	9 (7%) 19 13	87, 120, 141, 147	0
53	DU	117/118 (99%)	0.85	13 (11%) 10 8	88, 119, 141, 148	0
54	BV	101/101 (100%)	0.99	13 (12%) 7 7	105, 144, 159, 164	0
54	DV	101/101 (100%)	0.91	13 (12%) 7 7	106, 145, 159, 165	0
55	BW	113/113 (100%)	0.58	8 (7%) 22 14	81, 109, 132, 136	0
55	DW	113/113 (100%)	0.49	5 (4%) 39 22	81, 109, 131, 136	0
56	BX	93/96 (96%)	0.77	5 (5%) 31 18	96, 108, 124, 128	0
56	DX	93/96 (96%)	0.87	10 (10%) 11 9	97, 109, 125, 130	0
57	BY	101/110 (91%)	1.13	14 (13%) 6 6	124, 145, 165, 170	0
57	DY	101/110 (91%)	1.03	13 (12%) 7 7	123, 145, 163, 170	0
58	BZ	176/206 (85%)	0.50	4 (2%) 61 35	107, 133, 161, 164	0
58	DZ	176/206 (85%)	0.84	16 (9%) 15 11	109, 139, 168, 171	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	22002/23378 (94%)	0.59	1268 (5%) 29 17	28, 105, 164, 200	0

All (1268) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
34	D8	65	GLU	20.0
34	B8	65	GLU	11.4
48	BP	65	ARG	6.9
27	B1	22	GLY	6.4
9	AI	66	ARG	6.4
43	DH	171	LEU	6.3
34	D8	64	TYR	6.1
7	AG	82	GLY	6.1
55	DW	102	HIS	5.9
1	AA	89	C	5.9
57	BY	102	CYS	5.9
11	AK	129	SER	5.7
10	CJ	85	LEU	5.7
36	BA	2310	A	5.7
38	BC	1	PRO	5.6
14	CN	2	ALA	5.6
13	CM	123	ALA	5.6
13	AM	124	PRO	5.5
49	DQ	140	ALA	5.3
42	DG	35	GLU	5.2
13	AM	123	ALA	5.1
36	DA	223	A	5.0
57	DY	79	CYS	5.0
34	B8	46	ARG	4.9
1	CA	80	G	4.9
36	DA	654(G)	C	4.9
36	DA	1541	G	4.9
40	BE	107	THR	4.8
56	DX	53	LYS	4.8
32	B6	42	TRP	4.8
36	DA	654(F)	C	4.7
1	AA	59	A	4.7
32	B6	26	ASN	4.7
48	BP	33	ARG	4.7
22	CW	34	G	4.6
36	DA	654(S)	G	4.6
4	AD	2	GLY	4.6

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Mol	Chain	Res	Type	RSRZ
48	BP	74	GLU	4.6
41	BF	40	GLN	4.5
22	CW	20	U	4.5
20	AT	30	LYS	4.5
1	AA	88	A	4.4
36	BA	274	G	4.3
53	DU	33	ARG	4.3
36	BA	654(N)	G	4.3
1	CA	82	U	4.3
21	CU	23	PRO	4.2
36	DA	275	G	4.2
7	AG	2	ALA	4.2
46	BN	80	GLY	4.2
1	AA	90	U	4.2
56	BX	79	ALA	4.2
1	CA	88	A	4.2
19	AS	37	ARG	4.1
56	DX	72	LYS	4.1
36	DA	2506	U	4.1
1	AA	352	C	4.1
11	AK	75	TYR	4.1
50	DR	3	HIS	4.1
49	BQ	141	GLN	4.1
22	CW	35	A	4.1
36	BA	2173	A	4.0
36	DA	1762	A	4.0
42	DG	113	ARG	4.0
21	AU	26	LYS	4.0
26	D0	2	ALA	4.0
56	BX	51	VAL	3.9
26	D0	14	ARG	3.9
36	BA	2892	A	3.9
36	BA	2579	C	3.9
36	BA	2389	G	3.9
7	CG	2	ALA	3.9
13	AM	125	ARG	3.8
1	CA	90	U	3.8
40	BE	76	ARG	3.8
36	BA	654(K)	C	3.8
34	D8	6	THR	3.8
7	AG	83	ALA	3.8
40	BE	48	GLN	3.8

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Mol	Chain	Res	Type	RSRZ
53	BU	58	ARG	3.8
36	BA	2796	U	3.8
52	BT	1	MET	3.8
36	BA	944	G	3.7
56	DX	70	LEU	3.7
10	AJ	37	PRO	3.7
1	CA	54	C	3.7
54	DV	70	ILE	3.7
1	CA	146	G	3.7
48	BP	22	GLY	3.7
36	DA	2109	U	3.7
36	BA	275	G	3.7
36	DA	2801(A)	A	3.6
58	DZ	120	ILE	3.6
37	DB	80	U	3.6
32	B6	23	THR	3.6
1	AA	1038	C	3.6
31	B5	2	ALA	3.6
36	BA	654(J)	A	3.6
36	BA	2629	A	3.6
46	DN	119	ARG	3.6
1	AA	204	U	3.6
12	CL	26	ALA	3.6
36	BA	2628	C	3.6
36	DA	975	C	3.6
58	DZ	68	PRO	3.6
9	AI	70	LYS	3.6
21	CU	6	ARG	3.6
55	BW	94	ASP	3.6
1	AA	1036	G	3.5
11	CK	129	SER	3.5
22	AW	34	G	3.5
36	BA	654(H)	G	3.5
36	BA	2795	G	3.5
50	BR	49	ASP	3.5
34	D8	63	PRO	3.5
46	DN	139	GLU	3.5
36	DA	884	C	3.5
39	DD	224	ALA	3.5
43	DH	96	ALA	3.5
36	BA	1077	A	3.5
34	D8	35	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
43	BH	59	ARG	3.5
36	DA	654(I)	C	3.5
58	DZ	78	LYS	3.5
48	BP	51	PHE	3.5
50	DR	2	ARG	3.5
36	DA	577	G	3.5
36	DA	1115	G	3.5
34	D8	34	TRP	3.5
1	AA	979	C	3.5
10	CJ	39	PRO	3.5
36	DA	1598	C	3.5
57	BY	69	ALA	3.4
7	AG	35	LYS	3.4
36	BA	2506	U	3.4
36	DA	1077	A	3.4
53	DU	25	TRP	3.4
38	DC	1	PRO	3.4
13	AM	84	ILE	3.4
41	DF	88	VAL	3.4
31	D5	11	THR	3.4
22	AW	17	C	3.4
36	DA	2628	C	3.4
30	B4	47	GLN	3.4
1	AA	439	A	3.4
46	DN	101	HIS	3.4
35	D9	1	MET	3.4
9	AI	115	GLY	3.4
19	AS	10	PHE	3.4
1	AA	108	G	3.4
20	AT	72	LEU	3.4
54	DV	71	LEU	3.4
49	BQ	140	ALA	3.4
36	DA	90	U	3.4
40	DE	149	ARG	3.4
58	DZ	118	GLN	3.4
42	DG	30	GLU	3.4
36	BA	1114	G	3.4
36	DA	329	G	3.4
36	DA	1448	G	3.4
48	DP	72	PRO	3.4
54	BV	73	SER	3.4
13	AM	126	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
31	B5	9	LYS	3.3
36	BA	352	G	3.3
48	DP	15	ARG	3.3
36	BA	1350	C	3.3
11	AK	13	GLN	3.3
41	DF	199	TRP	3.3
43	DH	59	ARG	3.3
26	D0	6	GLY	3.3
16	AP	69	THR	3.3
30	D4	24	THR	3.3
36	BA	1541	G	3.3
36	BA	1647	G	3.3
36	DA	654(C)	G	3.3
36	BA	654(I)	C	3.3
42	DG	34	LEU	3.3
22	CW	36	A	3.3
39	DD	42	GLY	3.3
46	DN	72	TYR	3.3
58	BZ	97	GLU	3.3
56	DX	52	VAL	3.3
16	AP	13	HIS	3.3
36	DA	158	U	3.3
48	BP	64	LYS	3.3
30	D4	42	PHE	3.3
36	BA	329	G	3.3
36	BA	654(O)	G	3.3
41	DF	181	LEU	3.3
58	DZ	5	LEU	3.3
19	CS	12	ASP	3.3
50	BR	71	GLN	3.3
32	D6	46	HIS	3.3
49	BQ	104	PHE	3.2
55	BW	6	ILE	3.2
32	D6	42	TRP	3.2
46	DN	45	ASN	3.2
36	DA	2402	C	3.2
53	DU	93	LYS	3.2
54	BV	75	PHE	3.2
24	AY	60	U	3.2
36	DA	2799	C	3.2
20	CT	30	LYS	3.2
41	BF	52	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
36	BA	2505	G	3.2
36	DA	89	G	3.2
41	DF	87	GLY	3.2
40	BE	64	LYS	3.2
40	DE	76	ARG	3.2
53	BU	91	ASP	3.2
36	BA	654(G)	C	3.2
36	DA	331	A	3.2
36	DA	654(M)	C	3.2
8	CH	2	LEU	3.2
20	CT	24	LEU	3.2
46	BN	23	LEU	3.2
36	DA	654(L)	G	3.2
36	DA	1062	G	3.2
40	DE	153	GLY	3.2
49	DQ	141	GLN	3.2
9	AI	114	TYR	3.2
48	DP	87	ASP	3.2
42	DG	28	VAL	3.2
23	AX	16	A	3.1
36	BA	975	C	3.1
29	D3	46	ASN	3.1
31	B5	8	LYS	3.1
26	D0	15	ASP	3.1
1	AA	184	G	3.1
21	AU	9	ARG	3.1
36	DA	614(A)	U	3.1
40	BE	149	ARG	3.1
50	BR	5	LYS	3.1
1	CA	55	A	3.1
36	BA	1607	C	3.1
36	DA	654(T)	C	3.1
7	AG	85	TYR	3.1
36	BA	389	G	3.1
36	BA	1093	G	3.1
36	BA	2783	G	3.1
36	DA	654(H)	G	3.1
36	DA	997	G	3.1
36	DA	2645	G	3.1
46	DN	44	PRO	3.1
16	AP	12	LYS	3.1
38	BC	127	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
36	DA	945	A	3.1
36	BA	1053	C	3.1
36	BA	2539	C	3.1
41	BF	114	VAL	3.1
30	B4	5	ILE	3.1
9	AI	95	LYS	3.1
26	D0	55	ARG	3.1
35	B9	35	ARG	3.1
46	DN	35	ARG	3.1
51	BS	88	ASP	3.1
17	CQ	80	GLY	3.1
46	DN	33	LEU	3.1
36	BA	1074	G	3.1
36	DA	1122	G	3.1
12	AL	26	ALA	3.1
15	AO	69	TYR	3.1
20	AT	77	ALA	3.1
20	AT	106	ALA	3.1
48	BP	19	VAL	3.1
40	BE	87	GLU	3.1
40	DE	64	LYS	3.1
56	BX	53	LYS	3.1
34	D8	13	ARG	3.1
53	DU	58	ARG	3.1
36	DA	2108	C	3.1
13	AM	122	LYS	3.0
1	CA	108	G	3.0
5	AE	124	GLY	3.0
36	BA	919	G	3.0
36	BA	1992	G	3.0
36	DA	272	G	3.0
36	DA	508	G	3.0
36	DA	330	A	3.0
36	DA	1128	A	3.0
54	BV	74	LYS	3.0
29	B3	1	MET	3.0
31	D5	15	ARG	3.0
1	CA	856	C	3.0
31	B5	10	LYS	3.0
54	BV	72	VAL	3.0
5	CE	17	ALA	3.0
25	CZ	122	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
36	BA	2162	G	3.0
36	BA	2207	G	3.0
36	DA	654(E)	G	3.0
36	DA	944	G	3.0
36	DA	1034	G	3.0
34	B8	28	GLY	3.0
36	BA	503	A	3.0
36	BA	1128	A	3.0
46	DN	37	LYS	3.0
1	CA	221	C	3.0
36	BA	2179	C	3.0
37	DB	88	C	3.0
54	DV	81	TYR	3.0
46	BN	139	GLU	3.0
1	CA	81	U	3.0
57	BY	16	ALA	3.0
36	BA	330	A	3.0
36	BA	502	A	3.0
36	BA	1744	C	3.0
36	DA	271(Z)	C	3.0
37	BB	28	C	3.0
48	DP	65	ARG	3.0
22	AV	20	U	3.0
53	DU	56	ASP	3.0
46	DN	68	GLU	2.9
8	AH	1	MET	2.9
23	CX	26	A	2.9
48	DP	19	VAL	2.9
57	BY	37	VAL	2.9
1	CA	1001(A)	G	2.9
36	BA	1104	C	2.9
13	CM	124	PRO	2.9
29	D3	12	PRO	2.9
9	AI	41	VAL	2.9
26	D0	41	ARG	2.9
34	B8	45	GLY	2.9
40	BE	37	ARG	2.9
42	BG	109	VAL	2.9
25	CZ	108	ALA	2.9
51	DS	91	PRO	2.9
41	DF	172	TRP	2.9
22	AW	44	G	2.9

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Mol	Chain	Res	Type	RSRZ
1	CA	979	C	2.9
24	AY	61	C	2.9
34	B8	29	LYS	2.9
36	BA	510	C	2.9
36	DA	2386	C	2.9
49	BQ	130	LYS	2.9
7	AG	78	ARG	2.9
13	AM	117	VAL	2.9
14	AN	2	ALA	2.9
10	CJ	82	ILE	2.9
36	BA	267	C	2.9
36	BA	2163	C	2.9
36	BA	2799	C	2.9
36	DA	838	C	2.9
37	BB	70	C	2.9
1	CA	1002	G	2.9
32	D6	25	LYS	2.9
36	BA	2502	G	2.9
36	BA	2818	G	2.9
36	DA	1114	G	2.9
38	DC	58	VAL	2.9
48	BP	70	GLN	2.9
50	DR	91	GLN	2.9
38	BC	130	ILE	2.9
10	AJ	62	HIS	2.8
20	CT	11	SER	2.8
4	AD	44	GLY	2.8
57	DY	51	VAL	2.8
58	DZ	165	VAL	2.8
1	AA	1126	U	2.8
1	AA	1149	C	2.8
36	BA	976	C	2.8
21	CU	9	ARG	2.8
48	BP	7	ARG	2.8
1	AA	112	G	2.8
22	CW	6	G	2.8
30	B4	38	LYS	2.8
36	BA	2490	G	2.8
46	BN	62	VAL	2.8
20	AT	24	LEU	2.8
1	AA	1005	A	2.8
36	BA	1449	A	2.8

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Mol	Chain	Res	Type	RSRZ
36	DA	505	A	2.8
37	BB	29	A	2.8
26	B0	4	LYS	2.8
40	DE	147	PRO	2.8
41	BF	84	VAL	2.8
25	CZ	11	HIS	2.8
58	DZ	114	GLY	2.8
38	DC	109	ASP	2.8
55	DW	22	ASP	2.8
36	DA	527	C	2.8
20	CT	15	ARG	2.8
34	D8	46	ARG	2.8
54	BV	84	LYS	2.8
36	BA	654(A)	G	2.8
37	BB	63	G	2.8
10	AJ	23	ILE	2.8
48	DP	118	GLY	2.8
36	DA	2629	A	2.8
36	DA	2892	A	2.8
40	BE	159	HIS	2.8
57	BY	36	ALA	2.8
54	DV	76	LYS	2.8
56	DX	64	LYS	2.8
31	B5	47	PRO	2.8
43	DH	155	SER	2.8
36	BA	271(Z)	C	2.8
13	AM	119	GLY	2.8
40	BE	90	THR	2.8
43	BH	156	ALA	2.8
27	D1	23	LYS	2.8
9	AI	128	ARG	2.8
36	BA	42	G	2.8
36	DA	862	G	2.8
36	DA	2807	G	2.8
37	BB	23	G	2.8
55	BW	8	ARG	2.8
9	CI	102	LEU	2.8
10	CJ	35	SER	2.8
30	D4	37	SER	2.8
36	BA	945	A	2.8
36	DA	2310	A	2.8
40	DE	65	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
30	B4	27	THR	2.8
1	CA	330	C	2.7
36	DA	886	C	2.7
40	DE	44	TYR	2.7
48	BP	36	LYS	2.7
1	AA	351	G	2.7
1	AA	354	G	2.7
36	DA	274	G	2.7
36	DA	622	G	2.7
37	BB	61	G	2.7
19	AS	81	ARG	2.7
23	AX	15	A	2.7
36	DA	654(U)	A	2.7
36	DA	1609	A	2.7
36	BA	29	U	2.7
12	CL	18	VAL	2.7
38	DC	2	LYS	2.7
50	DR	5	LYS	2.7
53	DU	13	LYS	2.7
4	AD	20	TYR	2.7
22	CW	17	C	2.7
36	BA	654(M)	C	2.7
36	BA	1550	C	2.7
38	BC	2	LYS	2.7
48	DP	40	SER	2.7
1	AA	1108	G	2.7
1	AA	1127	G	2.7
1	CA	79	G	2.7
23	CX	27	A	2.7
36	BA	975(A)	G	2.7
36	BA	1154	G	2.7
36	DA	1187	G	2.7
36	DA	2542	A	2.7
37	DB	61	G	2.7
38	DC	127	LEU	2.7
48	DP	26	GLY	2.7
25	CZ	345	ARG	2.7
50	BR	8	ARG	2.7
51	DS	25	ARG	2.7
55	DW	8	ARG	2.7
49	DQ	66	ILE	2.7
22	CW	59	U	2.7

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Mol	Chain	Res	Type	RSRZ
36	DA	271(Y)	U	2.7
19	AS	38	SER	2.7
1	AA	656	C	2.7
35	D9	30	PRO	2.7
36	BA	1644	C	2.7
21	AU	24	ARG	2.7
6	AF	84	ASN	2.7
39	DD	35	LYS	2.7
57	BY	28	LYS	2.7
1	AA	461	A	2.7
1	CA	353	A	2.7
36	DA	2268	A	2.7
48	DP	27	HIS	2.7
1	CA	84	U	2.7
36	BA	989	G	2.7
36	DA	11	G	2.7
36	DA	51	G	2.7
36	DA	1401	G	2.7
36	DA	2795	G	2.7
36	DA	2802	G	2.7
37	BB	56	G	2.7
10	CJ	73	ASP	2.7
52	DT	24	PRO	2.7
26	B0	13	GLY	2.7
35	D9	37	GLY	2.7
56	BX	27	THR	2.7
27	B1	23	LYS	2.7
35	D9	2	LYS	2.7
48	BP	29	LYS	2.7
1	CA	980	C	2.7
36	DA	2814	C	2.7
37	DB	65	C	2.7
53	DU	79	PHE	2.7
40	DE	135	HIS	2.6
43	BH	148	ILE	2.6
25	AZ	21	ASP	2.6
40	DE	3	GLY	2.6
41	BF	85	GLY	2.6
1	CA	197	A	2.6
1	CA	977	A	2.6
36	BA	1088	A	2.6
36	BA	2518	A	2.6

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Mol	Chain	Res	Type	RSRZ
36	DA	276	A	2.6
36	DA	2173	A	2.6
46	BN	72	TYR	2.6
32	B6	35	GLU	2.6
39	BD	30	GLU	2.6
32	B6	40	CYS	2.6
36	BA	654(E)	G	2.6
36	BA	1573	G	2.6
36	DA	2181	G	2.6
54	DV	73	SER	2.6
13	CM	125	ARG	2.6
54	BV	80	GLN	2.6
30	B4	4	GLY	2.6
43	BH	85	LYS	2.6
46	DN	77	GLY	2.6
57	BY	21	LYS	2.6
7	AG	4	ARG	2.6
13	CM	84	ILE	2.6
22	CW	37	A	2.6
36	BA	505	A	2.6
36	BA	1307	A	2.6
34	B8	63	PRO	2.6
36	DA	156	U	2.6
57	BY	59	GLY	2.6
53	DU	91	ASP	2.6
1	CA	854	G	2.6
36	BA	176	G	2.6
36	BA	494	G	2.6
36	BA	570	G	2.6
36	DA	312	G	2.6
36	DA	2502	G	2.6
41	BF	35	GLU	2.6
42	DG	109	VAL	2.6
49	DQ	82	ARG	2.6
36	DA	2512	C	2.6
37	DB	71	C	2.6
4	AD	26	CYS	2.6
38	BC	218	MET	2.6
50	BR	7	GLY	2.6
36	BA	276	A	2.6
36	BA	1608	A	2.6
36	BA	1762	A	2.6

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Mol	Chain	Res	Type	RSRZ
36	DA	863	A	2.6
36	DA	2602	A	2.6
13	CM	102	ARG	2.6
56	DX	81	VAL	2.6
29	D3	20	LYS	2.6
40	BE	41	LYS	2.6
57	BY	19	LYS	2.6
25	AZ	98	GLN	2.6
32	B6	22	ALA	2.6
52	DT	1	MET	2.6
54	BV	89	GLN	2.6
48	DP	69	GLY	2.6
57	DY	6	HIS	2.6
4	AD	9	CYS	2.6
36	BA	2894	G	2.6
36	DA	351	G	2.6
51	DS	87	PHE	2.6
42	BG	29	TRP	2.6
10	AJ	58	ASP	2.6
13	AM	99	ARG	2.6
24	CY	31	C	2.6
36	BA	645	C	2.6
36	BA	654(F)	C	2.6
36	BA	2108	C	2.6
36	DA	1462	C	2.6
54	DV	24	LYS	2.6
57	DY	86	ARG	2.6
1	CA	59	A	2.6
36	BA	1237	A	2.6
26	D0	54	GLY	2.6
51	DS	90	GLY	2.6
19	CS	77	THR	2.5
51	DS	40	ILE	2.5
13	AM	71	ARG	2.5
13	CM	126	LYS	2.5
39	BD	23	GLU	2.5
48	DP	33	ARG	2.5
57	DY	52	SER	2.5
58	DZ	79	ARG	2.5
57	BY	51	VAL	2.5
57	DY	7	VAL	2.5
25	CZ	91	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
36	DA	570	G	2.5
36	DA	2190	G	2.5
37	DB	67	G	2.5
35	B9	37	GLY	2.5
48	BP	143	GLY	2.5
31	B5	26	THR	2.5
36	BA	1092	C	2.5
27	B1	32	LYS	2.5
43	DH	149	ARG	2.5
36	BA	988	A	2.5
36	BA	1026	U	2.5
36	DA	654(J)	A	2.5
36	DA	990	A	2.5
36	DA	1540	U	2.5
37	BB	52	A	2.5
8	CH	1	MET	2.5
10	CJ	37	PRO	2.5
51	DS	38	GLN	2.5
20	AT	58	LYS	2.5
51	BS	39	ILE	2.5
46	DN	115	ARG	2.5
46	DN	52	VAL	2.5
58	BZ	96	VAL	2.5
1	AA	79	G	2.5
1	AA	1024	G	2.5
22	AW	18	G	2.5
36	BA	1325	G	2.5
36	BA	1702	G	2.5
36	BA	2191	G	2.5
36	BA	2645	G	2.5
36	DA	2893	G	2.5
7	AG	33	ASP	2.5
24	AY	72	C	2.5
36	BA	543	C	2.5
36	BA	2804	C	2.5
36	DA	961	C	2.5
36	DA	1607	C	2.5
51	DS	12	PHE	2.5
15	AO	62	GLN	2.5
5	CE	124	GLY	2.5
51	DS	39	ILE	2.5
1	CA	1159	U	2.5

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Mol	Chain	Res	Type	RSRZ
36	BA	1786	A	2.5
36	DA	1033	U	2.5
36	DA	1095	A	2.5
49	BQ	10	ARG	2.5
10	AJ	59	SER	2.5
32	D6	39	TYR	2.5
58	DZ	48	PHE	2.5
4	CD	42	GLN	2.5
9	CI	70	LYS	2.5
25	AZ	110	ASP	2.5
40	DE	127	ASP	2.5
51	BS	40	ILE	2.5
42	DG	98	ARG	2.5
50	DR	22	ARG	2.5
19	AS	77	THR	2.5
4	AD	178	VAL	2.5
1	CA	89	C	2.5
36	DA	885	C	2.5
1	AA	144	G	2.5
1	AA	1323	G	2.5
22	AV	19	G	2.5
36	DA	88	G	2.5
36	DA	932	G	2.5
36	DA	1271	G	2.5
36	DA	1647	G	2.5
36	DA	2032	G	2.5
36	DA	2805	G	2.5
36	DA	1026	U	2.5
9	CI	119	ALA	2.5
17	CQ	28	PRO	2.5
9	AI	75	ASP	2.5
21	CU	5	ASP	2.5
48	BP	79	ARG	2.5
43	BH	155	SER	2.5
31	D5	60	VAL	2.5
54	BV	5	VAL	2.5
34	B8	48	PHE	2.4
40	DE	159	HIS	2.4
40	DE	152	LYS	2.4
10	AJ	4	ILE	2.4
25	AZ	109	ALA	2.4
25	CZ	109	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
29	B3	46	ASN	2.4
40	DE	68	ALA	2.4
57	DY	48	ALA	2.4
10	AJ	39	PRO	2.4
13	CM	71	ARG	2.4
46	BN	79	PRO	2.4
41	DF	85	GLY	2.4
53	DU	7	GLY	2.4
36	BA	1543	C	2.4
36	BA	1575	C	2.4
36	DA	888	C	2.4
1	AA	375	U	2.4
8	AH	3	THR	2.4
36	BA	504	U	2.4
36	DA	1108	U	2.4
1	CA	143	A	2.4
36	BA	75	G	2.4
36	BA	406	G	2.4
36	BA	477	A	2.4
36	BA	1187	G	2.4
36	BA	2031	A	2.4
36	BA	2428	G	2.4
36	DA	1256	G	2.4
36	DA	1447	G	2.4
53	DU	61	TRP	2.4
49	BQ	82	ARG	2.4
50	BR	2	ARG	2.4
14	AN	28	GLY	2.4
26	D0	28	GLY	2.4
30	D4	27	THR	2.4
19	AS	55	LYS	2.4
32	B6	45	LYS	2.4
34	B8	59	LYS	2.4
46	DN	109	LYS	2.4
42	DG	114	ILE	2.4
54	BV	81	TYR	2.4
36	BA	271(Y)	U	2.4
36	BA	654(B)	C	2.4
36	BA	2635	C	2.4
36	DA	157	U	2.4
36	DA	654(K)	C	2.4
55	BW	88	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
36	BA	571	A	2.4
1	AA	1190	G	2.4
24	AY	18	G	2.4
36	BA	2770	G	2.4
36	DA	352	G	2.4
36	DA	927	G	2.4
36	DA	1703	G	2.4
37	BB	24	G	2.4
26	D0	4	LYS	2.4
55	BW	97	LYS	2.4
54	DV	33	VAL	2.4
55	BW	105	VAL	2.4
58	DZ	174	VAL	2.4
53	BU	45	TYR	2.4
33	B7	44	PRO	2.4
12	AL	23	LYS	2.4
38	BC	113	VAL	2.4
1	AA	1391	U	2.4
36	BA	2585	U	2.4
36	DA	63	U	2.4
4	CD	21	LEU	2.4
1	AA	91	C	2.4
1	CA	458	C	2.4
36	BA	1646	C	2.4
36	BA	1663	C	2.4
36	BA	2794	C	2.4
36	BA	2875	C	2.4
37	DB	79	C	2.4
36	BA	2693	A	2.4
36	DA	310	A	2.4
48	BP	41	ARG	2.4
54	BV	82	ARG	2.4
43	DH	150	ALA	2.4
48	BP	81	GLN	2.4
48	DP	68	GLN	2.4
1	CA	1036	G	2.4
22	AV	18	G	2.4
3	CC	174	PRO	2.4
34	D8	11	LYS	2.4
36	BA	1450	G	2.4
36	DA	1216	G	2.4
36	DA	2630	G	2.4

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Mol	Chain	Res	Type	RSRZ
34	B8	38	GLY	2.4
39	DD	44	ASN	2.4
41	BF	156	LEU	2.4
58	DZ	117	LEU	2.4
26	B0	15	ASP	2.4
34	B8	40	GLU	2.4
54	BV	23	GLU	2.4
9	AI	78	LYS	2.4
40	DE	35	GLN	2.3
41	DF	52	LYS	2.4
50	DR	71	GLN	2.3
52	BT	8	LYS	2.4
1	AA	1025	U	2.3
32	B6	46	HIS	2.3
52	DT	79	HIS	2.3
53	BU	79	PHE	2.3
58	DZ	88	PHE	2.3
10	CJ	4	ILE	2.3
36	BA	1004	C	2.3
36	BA	1073	A	2.3
36	DA	422	A	2.3
36	DA	2161	C	2.3
37	BB	26	A	2.3
41	DF	84	VAL	2.3
40	BE	144	ARG	2.3
13	AM	21	TYR	2.3
1	AA	146	G	2.3
1	CA	78	G	2.3
10	CJ	32	ALA	2.3
36	BA	512	G	2.3
36	BA	2192	G	2.3
36	DA	171	G	2.3
36	DA	1011	G	2.3
36	DA	1325	G	2.3
50	BR	72	ASP	2.3
41	DF	83	PHE	2.3
54	DV	40	LEU	2.3
14	AN	23	ARG	2.3
34	B8	30	ARG	2.3
56	DX	36	LYS	2.3
57	BY	47	LYS	2.3
1	AA	55	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	D9	5	ALA	2.3
36	BA	311	A	2.3
36	BA	1080	C	2.3
36	BA	2680	C	2.3
36	DA	2062	A	2.3
37	DB	6	C	2.3
41	DF	8	GLN	2.3
43	DH	32	GLU	2.3
58	BZ	118	GLN	2.3
2	CB	222	ILE	2.3
21	CU	13	ILE	2.3
34	D8	31	HIS	2.3
50	DR	11	ASN	2.3
1	AA	80	G	2.3
1	AA	111	G	2.3
1	AA	852	G	2.3
24	AY	43	G	2.3
36	BA	481	G	2.3
36	BA	583	G	2.3
36	BA	1236	G	2.3
36	BA	1348	G	2.3
36	BA	2032	G	2.3
8	CH	86	ILE	2.3
35	B9	34	GLN	2.3
49	DQ	19	GLY	2.3
51	BS	14	VAL	2.3
58	DZ	139	VAL	2.3
52	BT	27	THR	2.3
1	AA	197	A	2.3
23	AX	27	A	2.3
33	B7	23	ARG	2.3
35	B9	2	LYS	2.3
36	BA	331	A	2.3
36	BA	2268	A	2.3
36	BA	2542	A	2.3
36	DA	1001	A	2.3
1	AA	970	C	2.3
36	BA	272(J)	C	2.3
36	BA	509	C	2.3
36	BA	587	C	2.3
37	BB	62	C	2.3
53	BU	109	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
14	AN	42	ILE	2.3
28	B2	50	ILE	2.3
34	B8	64	TYR	2.3
38	BC	112	ALA	2.3
56	DX	80	ILE	2.3
4	AD	42	GLN	2.3
51	BS	68	GLN	2.3
10	CJ	59	SER	2.3
14	CN	32	SER	2.3
10	AJ	73	ASP	2.3
40	BE	193	GLY	2.3
48	BP	23	PRO	2.3
57	DY	59	GLY	2.3
13	CM	27	LYS	2.3
35	D9	33	LYS	2.3
28	B2	51	ARG	2.3
1	AA	471	G	2.3
1	AA	1181	G	2.3
1	CA	77	G	2.3
22	CW	18	G	2.3
36	BA	654(D)	G	2.3
36	BA	1266	G	2.3
36	DA	883	G	2.3
36	DA	974	G	2.3
37	DB	69	G	2.3
3	CC	42	LEU	2.3
36	BA	943	U	2.3
36	DA	1142	U	2.3
41	DF	49	ALA	2.3
1	CA	695	A	2.3
36	BA	861	A	2.3
1	AA	92	C	2.3
1	AA	1321	C	2.3
1	CA	92	C	2.3
25	AZ	42	VAL	2.3
26	D0	5	LYS	2.3
36	BA	2021	C	2.3
36	DA	334	C	2.3
34	B8	31	HIS	2.2
58	DZ	121	HIS	2.2
29	D3	13	ILE	2.2
51	BS	82	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
51	BS	87	PHE	2.2
53	BU	80	ILE	2.2
26	D0	18	ALA	2.2
58	DZ	164	ALA	2.2
30	B4	25	TYR	2.2
4	CD	22	LYS	2.2
11	CK	11	LYS	2.2
20	AT	11	SER	2.2
51	DS	19	LYS	2.2
1	AA	189(G)	G	2.2
6	CF	86	ARG	2.2
22	CW	32	U	2.2
23	AX	17	U	2.2
36	DA	325	G	2.2
36	DA	495	G	2.2
36	DA	654(N)	G	2.2
36	DA	1074	G	2.2
36	DA	2182	G	2.2
37	BB	76	G	2.2
37	DB	96	U	2.2
39	BD	36	PRO	2.2
39	BD	41	GLY	2.2
46	DN	79	PRO	2.2
49	BQ	122	GLY	2.2
13	AM	116	THR	2.2
41	DF	124	LEU	2.2
46	BN	43	THR	2.2
51	DS	48	LEU	2.2
39	BD	44	ASN	2.2
17	CQ	65	ILE	2.2
36	BA	820	A	2.2
36	BA	1654	A	2.2
36	BA	2801(A)	A	2.2
36	DA	2750	A	2.2
49	DQ	28	ALA	2.2
36	BA	246	C	2.2
36	BA	992	C	2.2
36	BA	1743	C	2.2
36	BA	2703	C	2.2
36	DA	2324	C	2.2
19	AS	80	TYR	2.2
54	BV	12	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
10	CJ	44	VAL	2.2
13	AM	98	VAL	2.2
19	AS	78	ARG	2.2
40	BE	91	VAL	2.2
42	BG	30	GLU	2.2
30	D4	17	GLY	2.2
40	DE	106	GLY	2.2
40	DE	66	HIS	2.2
31	D5	53	ALA	2.2
36	BA	1090	U	2.2
36	DA	2431	U	2.2
46	BN	21	LYS	2.2
4	CD	160	GLN	2.2
21	AU	21	TYR	2.2
25	CZ	361	MET	2.2
30	B4	26	SER	2.2
40	BE	160	TYR	2.2
1	AA	216	G	2.2
1	AA	1124	G	2.2
1	CA	853	G	2.2
1	CA	1031	G	2.2
36	BA	11	G	2.2
36	BA	272	G	2.2
36	BA	1062	G	2.2
36	BA	1117	G	2.2
36	BA	1997	G	2.2
36	BA	2802	G	2.2
36	DA	1459	G	2.2
36	DA	2709	G	2.2
10	AJ	25	GLU	2.2
25	AZ	237	VAL	2.2
57	BY	45	VAL	2.2
1	AA	152	A	2.2
1	AA	353	A	2.2
1	CA	461	A	2.2
23	CX	16	A	2.2
36	DA	1237	A	2.2
36	DA	1760	A	2.2
36	DA	2497	A	2.2
40	DE	105	THR	2.2
4	CD	31	CYS	2.2
32	D6	40	CYS	2.2

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Mol	Chain	Res	Type	RSRZ
1	AA	219	C	2.2
1	AA	1382	C	2.2
1	CA	91	C	2.2
1	CA	352	C	2.2
20	AT	9	ASN	2.2
36	BA	527	C	2.2
36	DA	510	C	2.2
36	DA	1152	C	2.2
36	DA	2464	C	2.2
36	DA	2724	C	2.2
31	B5	4	HIS	2.2
46	DN	84	LYS	2.2
51	DS	11	LYS	2.2
41	DF	111	ALA	2.2
5	CE	27	ARG	2.2
10	AJ	5	ARG	2.2
33	D7	35	ARG	2.2
41	BF	38	ARG	2.2
54	DV	95	LEU	2.2
10	AJ	72	VAL	2.2
13	AM	60	VAL	2.2
46	DN	46	VAL	2.2
46	DN	62	VAL	2.2
21	AU	2	GLY	2.2
25	AZ	186	PRO	2.2
56	DX	74	PRO	2.2
30	B4	24	THR	2.2
36	BA	421	U	2.2
36	BA	1078	U	2.2
36	DA	2779	U	2.2
36	DA	2796	U	2.2
31	B5	3	LYS	2.2
34	D8	5	LYS	2.2
20	AT	26	ASN	2.2
26	D0	3	HIS	2.2
38	DC	76	ALA	2.2
48	BP	87	ASP	2.2
51	BS	95	HIS	2.2
53	DU	97	ASP	2.2
56	DX	79	ALA	2.2
1	AA	1002	G	2.2
1	AA	1094	G	2.2

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Mol	Chain	Res	Type	RSRZ
1	CA	306	G	2.2
1	CA	1001	A	2.2
36	BA	88	G	2.2
36	BA	1106	G	2.2
36	BA	2733	A	2.2
36	DA	975(A)	G	2.2
36	DA	2323	G	2.2
36	DA	2389	G	2.2
37	BB	39	A	2.2
42	DG	26	GLN	2.2
57	BY	52	SER	2.2
41	BF	184	TYR	2.2
54	DV	12	TYR	2.2
1	CA	385	C	2.2
1	CA	1030(B)	C	2.2
36	BA	542	C	2.2
36	BA	1509	C	2.2
36	BA	1548	C	2.2
36	BA	1574	C	2.2
37	BB	10	C	2.2
43	DH	82	GLY	2.2
54	DV	23	GLU	2.2
10	AJ	55	LYS	2.2
31	D5	10	LYS	2.2
9	CI	96	LEU	2.2
51	BS	32	LEU	2.2
51	DS	74	ALA	2.1
7	AG	143	ARG	2.1
9	AI	16	ARG	2.1
34	D8	30	ARG	2.1
39	DD	262	ARG	2.1
40	BE	127	ASP	2.1
35	B9	36	GLN	2.1
53	DU	14	HIS	2.1
7	CG	85	TYR	2.1
9	CI	108	VAL	2.1
25	CZ	343	TYR	2.1
31	D5	45	VAL	2.1
43	BH	114	VAL	2.1
15	CO	20	GLY	2.1
21	AU	25	LYS	2.1
21	CU	16	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
26	D0	13	GLY	2.1
30	B4	42	PHE	2.1
40	BE	10	GLY	2.1
42	DG	55	LYS	2.1
43	BH	153	LYS	2.1
46	BN	81	GLY	2.1
29	B3	48	GLU	2.1
36	BA	2054	A	2.1
1	AA	971	G	2.1
28	D2	10	LEU	2.1
36	BA	226	G	2.1
36	BA	353	G	2.1
36	BA	818	G	2.1
36	DA	582	G	2.1
36	DA	2655	G	2.1
8	AH	84	ARG	2.1
10	AJ	70	ARG	2.1
1	CA	934	C	2.1
1	CA	1029	C	2.1
25	AZ	67	HIS	2.1
36	BA	888	C	2.1
36	BA	970	C	2.1
36	DA	272(J)	C	2.1
36	DA	435	C	2.1
36	DA	1745	C	2.1
36	DA	2174	C	2.1
36	DA	2710	C	2.1
50	DR	13	HIS	2.1
25	CZ	352	VAL	2.1
41	DF	78	ILE	2.1
42	DG	29	TRP	2.1
43	DH	144	VAL	2.1
12	AL	28	LYS	2.1
20	CT	34	LYS	2.1
47	DO	26	LYS	2.1
48	BP	17	LYS	2.1
56	BX	40	LYS	2.1
57	DY	35	TYR	2.1
57	DY	47	LYS	2.1
50	BR	106	GLY	2.1
1	AA	82	U	2.1
36	BA	860	U	2.1

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Mol	Chain	Res	Type	RSRZ
36	DA	1066	U	2.1
7	CG	4	ARG	2.1
25	CZ	285	ASN	2.1
41	BF	188	ARG	2.1
43	BH	96	ALA	2.1
55	BW	96	ILE	2.1
10	CJ	55	LYS	2.1
13	CM	117	VAL	2.1
38	DC	94	VAL	2.1
38	BC	105	ASP	2.1
40	DE	155	LYS	2.1
43	BH	35	VAL	2.1
54	BV	24	LYS	2.1
54	DV	19	LYS	2.1
1	AA	262	A	2.1
22	AW	38	A	2.1
36	BA	983	A	2.1
36	DA	819	A	2.1
36	DA	887	A	2.1
43	BH	154	PRO	2.1
43	BH	87	LEU	2.1
1	AA	147	G	2.1
1	AA	331	G	2.1
1	AA	1182	G	2.1
23	CX	18	G	2.1
36	BA	2893	G	2.1
37	BB	110	G	2.1
1	AA	330	C	2.1
1	CA	470	C	2.1
36	BA	1153	C	2.1
36	DA	998	C	2.1
37	BB	27	C	2.1
26	B0	2	ALA	2.1
19	CS	38	SER	2.1
34	D8	16	ILE	2.1
17	AQ	100	LYS	2.1
36	DA	12	U	2.1
36	DA	1061	U	2.1
41	BF	83	PHE	2.1
43	DH	17	VAL	2.1
43	DH	45	VAL	2.1
57	BY	49	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
9	AI	96	LEU	2.1
15	CO	21	ASP	2.1
38	DC	69	GLY	2.1
41	BF	181	LEU	2.1
48	DP	104	GLY	2.1
52	BT	25	GLY	2.1
29	B3	2	PRO	2.1
25	CZ	347	THR	2.1
32	D6	35	GLU	2.1
25	CZ	190	ARG	2.1
36	BA	528	A	2.1
36	BA	2062	A	2.1
36	DA	64	A	2.1
41	DF	22	ALA	2.1
57	DY	8	LYS	2.1
52	DT	58	ASN	2.1
1	AA	470	C	2.1
36	BA	2324	C	2.1
1	AA	198	G	2.1
1	AA	350	G	2.1
2	CB	160	ASP	2.1
10	AJ	89	ASP	2.1
13	CM	100	GLY	2.1
36	BA	2692	C	2.1
36	DA	1506	C	2.1
36	DA	1670	C	2.1
37	BB	60	C	2.1
23	AX	18	G	2.1
36	BA	654(L)	G	2.1
36	BA	882	G	2.1
36	BA	1034	G	2.1
36	BA	1192	G	2.1
36	DA	425	G	2.1
36	DA	654(D)	G	2.1
36	DA	859	G	2.1
36	DA	2052	G	2.1
36	DA	2191	G	2.1
36	DA	2505	G	2.1
37	BB	7	G	2.1
53	BU	56	ASP	2.1
26	B0	11	ARG	2.1
41	DF	44	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
10	CJ	23	ILE	2.1
29	B3	17	LYS	2.1
34	B8	44	LYS	2.1
36	BA	1066	U	2.1
55	BW	98	LYS	2.1
58	BZ	137	ILE	2.1
9	AI	61	ALA	2.1
49	DQ	136	ALA	2.1
51	DS	79	ALA	2.1
7	AG	75	VAL	2.1
10	AJ	85	LEU	2.1
40	BE	195	LEU	2.1
53	BU	27	LEU	2.1
54	DV	14	VAL	2.1
1	AA	109	A	2.0
13	CM	26	GLY	2.0
36	BA	2801	A	2.0
36	DA	423	A	2.0
37	DB	13	A	2.0
40	BE	88	GLY	2.0
48	BP	104	GLY	2.0
48	BP	110	TYR	2.0
6	CF	3	ARG	2.0
20	AT	29	LYS	2.0
40	DE	133	LYS	2.0
43	BH	18	GLU	2.0
55	DW	4	LYS	2.0
38	BC	179	SER	2.0
41	DF	26	ALA	2.0
1	AA	456	C	2.0
1	AA	1335	C	2.0
2	CB	98	LEU	2.0
9	CI	31	GLN	2.0
28	D2	60	LEU	2.0
34	B8	62	LEU	2.0
36	BA	65	C	2.0
36	BA	971	C	2.0
37	BB	6	C	2.0
37	BB	109	C	2.0
53	DU	109	LEU	2.0
40	DE	192	ASN	2.0
1	AA	265	G	2.0

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Mol	Chain	Res	Type	RSRZ
1	AA	1283	G	2.0
36	BA	498	G	2.0
36	BA	1271	G	2.0
36	BA	1643	G	2.0
36	BA	1682	G	2.0
36	DA	506	G	2.0
36	DA	972	G	2.0
36	DA	1238	G	2.0
36	DA	1997	G	2.0
36	DA	2428	G	2.0
36	DA	2780	G	2.0
24	CY	60	U	2.0
52	BT	92	GLY	2.0
3	AC	201	TYR	2.0
9	AI	118	LYS	2.0
16	AP	31	LYS	2.0
10	AJ	42	THR	2.0
41	BF	23	ASP	2.0
40	DE	140	SER	2.0
40	DE	162	ALA	2.0
48	DP	62	LEU	2.0
51	DS	27	SER	2.0
55	DW	3	ALA	2.0
58	DZ	113	ALA	2.0
23	CX	15	A	2.0
24	AY	59	A	2.0
34	D8	23	VAL	2.0
36	BA	1096	A	2.0
36	BA	1155	A	2.0
36	DA	1210	A	2.0
36	DA	1494	A	2.0
36	DA	2469	A	2.0
36	DA	2820	A	2.0
37	DB	39	A	2.0
43	DH	169	VAL	2.0
57	DY	37	VAL	2.0
57	DY	49	VAL	2.0
26	B0	14	ARG	2.0
26	D0	52	GLY	2.0
29	B3	10	LYS	2.0
34	D8	28	GLY	2.0
40	BE	8	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
48	BP	82	GLY	2.0
48	DP	17	LYS	2.0
22	CV	49	C	2.0
36	DA	1744	C	2.0
36	DA	2465	C	2.0
53	BU	25	TRP	2.0
50	DR	89	ASP	2.0
1	AA	81	U	2.0
1	CA	981	U	2.0
36	BA	999	U	2.0
6	AF	72	VAL	2.0
6	AF	90	VAL	2.0
41	BF	89	VAL	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
24	H2U	CY	20	20/21	0.20	0.12	195,198,200,200	0
24	H2U	AY	16	20/21	0.26	0.21	198,199,200,200	0
24	H2U	CY	16	20/21	0.41	0.15	199,199,200,200	0
24	H2U	CY	17	20/21	0.45	0.16	196,199,200,200	0
24	H2U	AY	20	20/21	0.47	0.13	196,198,200,200	0
24	H2U	AY	17	20/21	0.47	0.18	195,199,199,200	0
24	PSU	CY	55	20/21	0.74	0.12	172,180,180,180	0
24	7MG	AY	46	24/25	0.75	0.15	186,189,190,190	0
24	PSU	AY	55	20/21	0.80	0.10	171,180,181,182	0
24	5MU	CY	54	21/22	0.82	0.11	165,167,168,171	0
24	7MG	CY	46	24/25	0.82	0.15	186,189,190,190	0
24	5MU	AY	54	21/22	0.84	0.12	164,166,168,171	0
24	YG	CY	37	39/40	0.89	0.15	77,108,122,122	0
24	YG	AY	37	39/40	0.92	0.19	77,108,121,122	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands

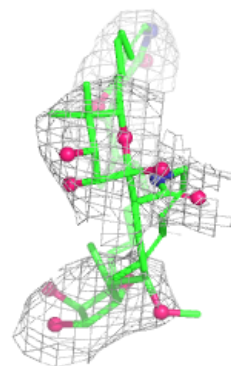
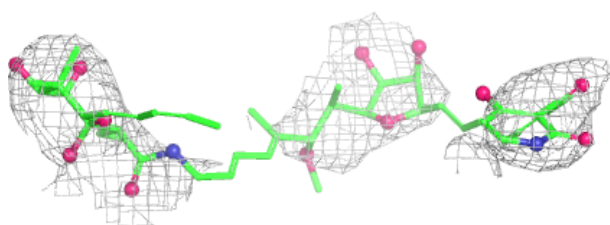
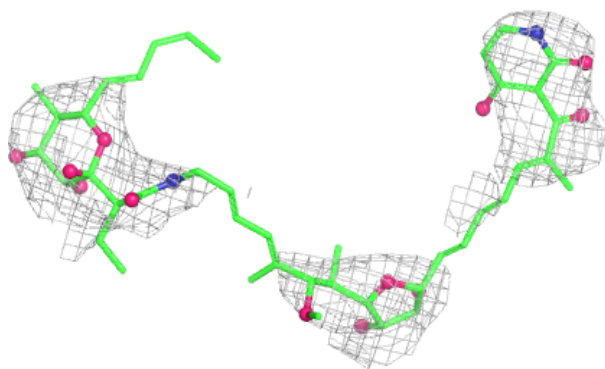
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
61	MG	CY	101	1/1	0.24	0.23	181,181,181,181	0
61	MG	AY	101	1/1	0.70	0.18	109,109,109,109	0
63	KIR	AZ	502	57/57	0.86	0.14	98,106,116,117	0
62	GDP	CZ	501	28/28	0.88	0.08	117,126,128,128	0
63	KIR	CZ	502	57/57	0.88	0.15	99,106,116,117	0
62	GDP	AZ	501	28/28	0.89	0.09	117,124,126,126	0
59	PAR	CA	1601	42/42	0.93	0.11	41,46,64,65	0
59	PAR	AA	1601	42/42	0.94	0.10	40,44,48,49	0
60	ZN	D4	101	1/1	0.98	0.03	133,133,133,133	0
60	ZN	B4	101	1/1	0.99	0.07	97,97,97,97	0
60	ZN	D9	101	1/1	0.99	0.03	126,126,126,126	0
60	ZN	CD	301	1/1	1.00	0.11	56,56,56,56	0
60	ZN	CN	101	1/1	1.00	0.01	100,100,100,100	0
60	ZN	AN	101	1/1	1.00	0.03	45,45,45,45	0
60	ZN	AD	301	1/1	1.00	0.10	52,52,52,52	0
60	ZN	B9	101	1/1	1.00	0.02	113,113,113,113	0

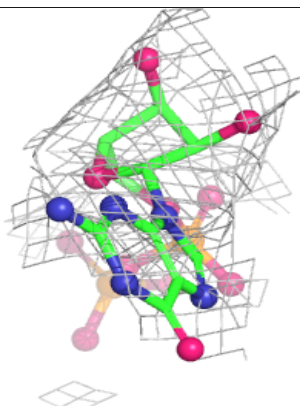
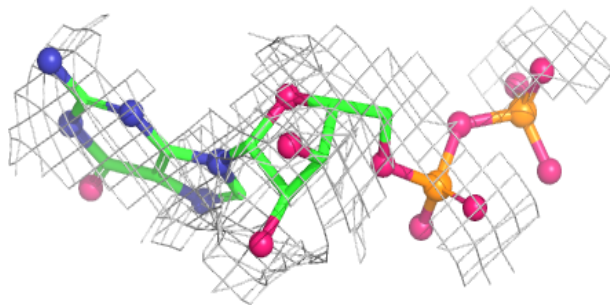
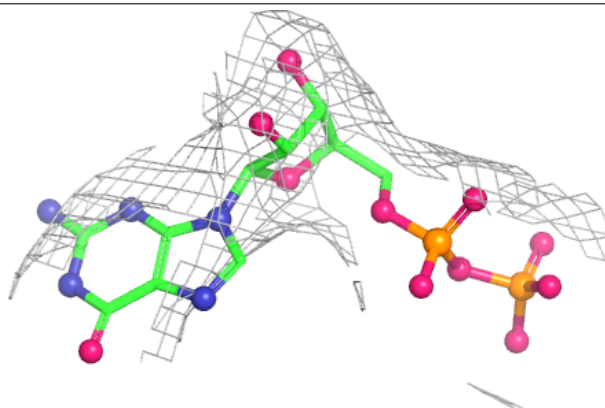
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around KIR AZ 502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

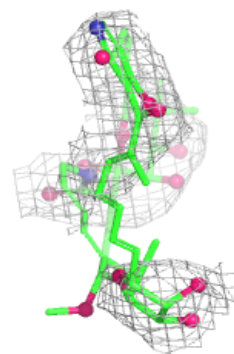
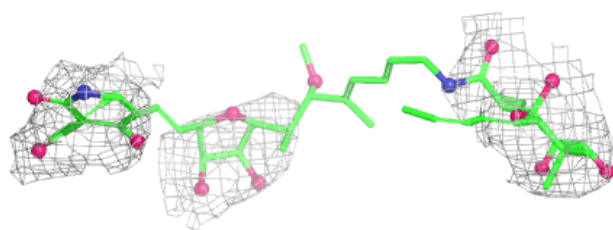
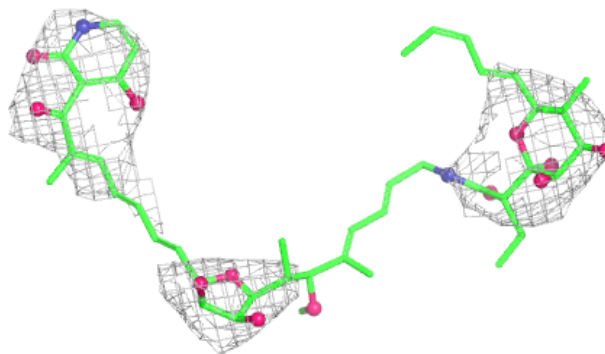
**Electron density around GDP CZ 501:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

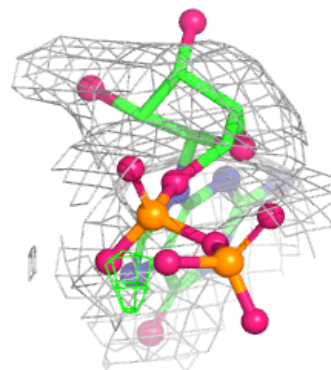
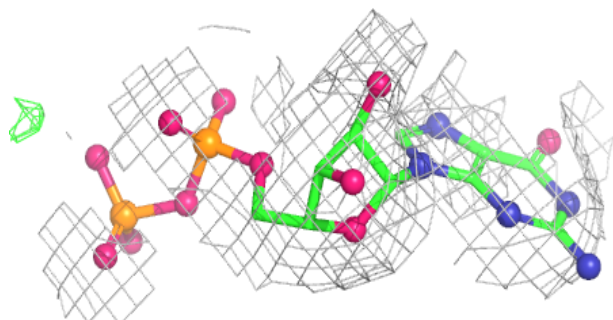
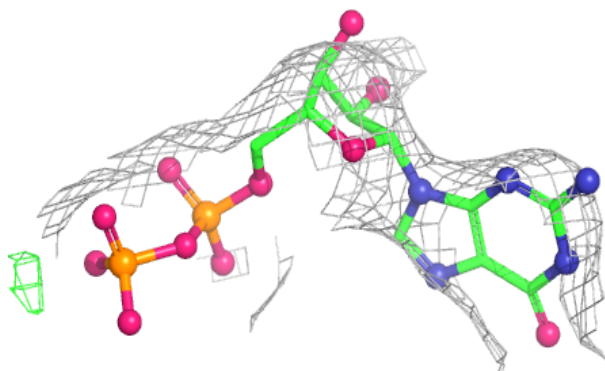


Electron density around KIR CZ 502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

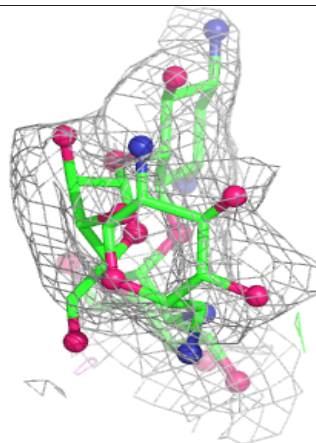
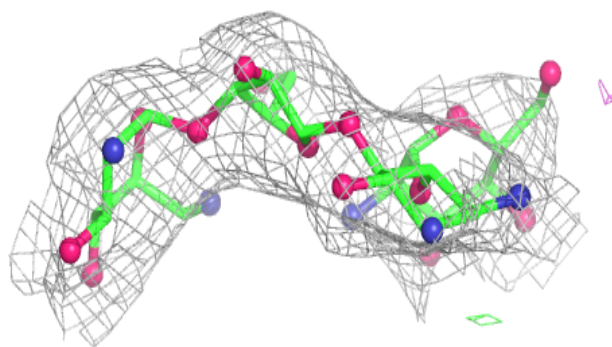
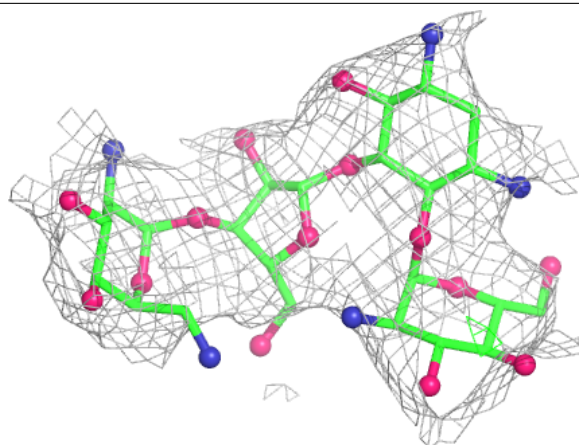
**Electron density around GDP AZ 501:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



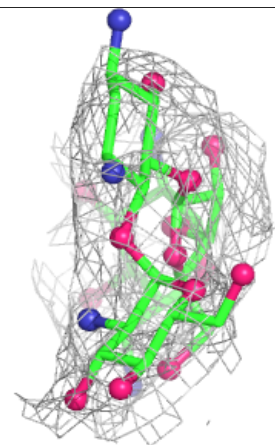
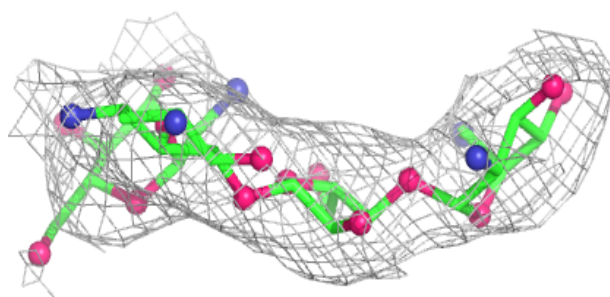
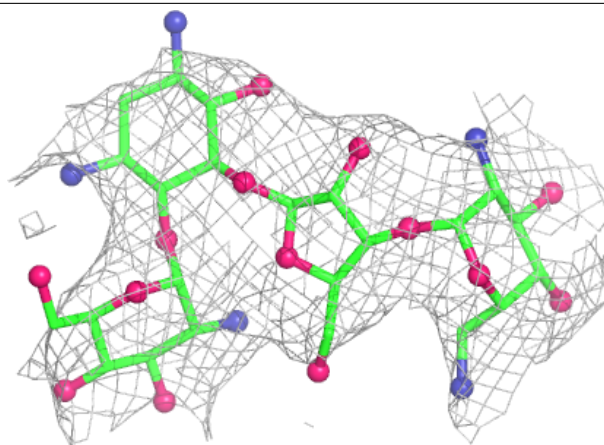
Electron density around PAR CA 1601:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PAR AA 1601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.